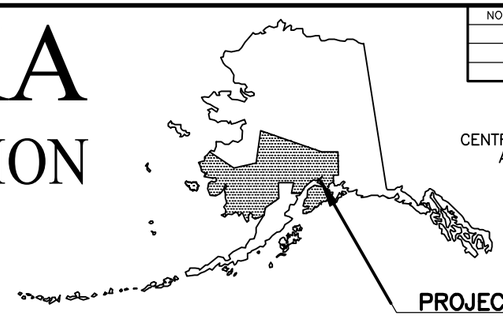
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012		2022	A1	A13
ROUTE ID	1020000X000	MILEPOINT	118.852 – 121.346		
LATITUDE	61.134102	LONGITUDE	–149.856436		

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

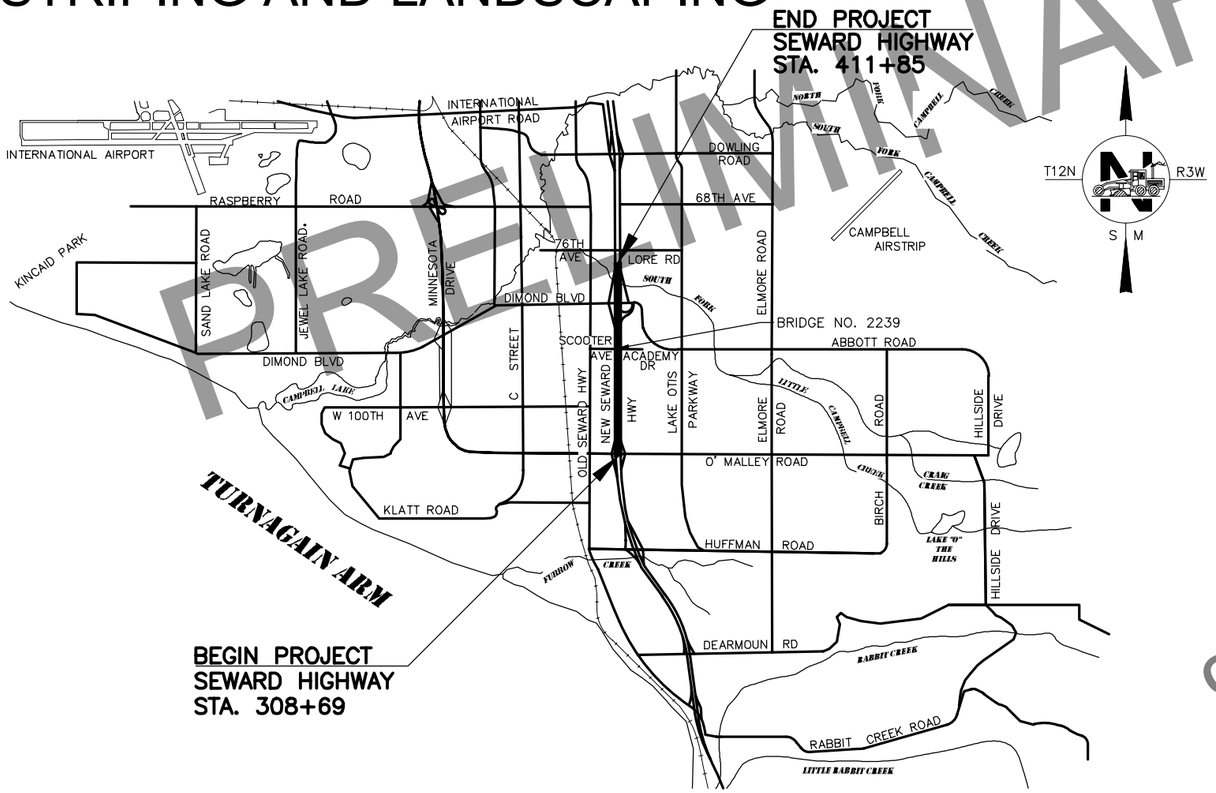


PROPOSED HIGHWAY PROJECT

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

PROJECT NO. 0537008/CFHWY00012

GRADING, DRAINAGE, PAVING, BRIDGES, WALLS, PATHWAYS, ILLUMINATION, SIGNALIZATION, SIGNING, STRIPING AND LANDSCAPING



PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
SEWARD HIGHWAY	2 x 56 FT	1.9 MILES
HOMER DRIVE	18 – 28 FT	0.5 MILES
BRAYTON DRIVE	18 – 28 FT	1.5 MILES
RAMPS	24 – 36 FT	2.7 MILES
O'MALLEY ROAD	46 – 58 FT	0.7 MILES
SCOOTER AVENUE/ACADEMY DRIVE	24 – 28 FT	0.4 MILES

BRIDGE DESIGNATIONS		
BRIDGE NO.	WIDTH	LENGTH
2239	140'–6"	145'–6"

DESIGN DESIGNATIONS				
	SEWARD HIGHWAY		O'MALLEY RD	SCOOTER AVE/ACADEMY DR
	O'MALLEY RD TO SCOOTER AVE	SCOOTER AVE TO DIMOND BLVD		
FUNCTIONAL CLASS	FREEWAY	FREEWAY	URBAN ARTERIAL	MINOR ARTERIAL
AADT (2017)	34,000	34,000	30,000	300
AADT (2040)	62,000	69,000	28,000	20,000
DESIGN SPEED (V) (MPH)	70	70	25	35
DHV (2017)	12%	12%	10%	10%
DHV (2040)	12%	12%	10%	10%
T–PERCENT COMMERCIAL TRUCKS	6%	6%	3%	3%
D–DIRECTIONAL DISTRIBUTION (%)	50/50	50/50	50/50	50/50

SEE A2 FOR FRONTAGE ROAD AND RAMP DESIGN DESIGNATIONS.

CERTIFICATION
APRIL 2022

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
4111 AVIATION AVENUE, ANCHORAGE, AK 99502
(907)269–0590

APPROVED:

REGIONAL PRE–CONSTRUCTION ENGINEER DATE

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE

DATE/TIME 4/11/2022 11:37 AM | LAYOUT A1 | DESIGNED JM | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A2	A13

ALIGNMENT DESIGNATIONS

DESIGNATION	ROADWAY
ML	SEWARD HIGHWAY – MAINLINE
S–NB–SP	SEWARD HIGHWAY – SOUTHERN NORTHBOUND SPECIAL ALIGNMENT
S–SB–SP	SEWARD HIGHWAY – SOUTHERN SOUTHBOUND SPECIAL ALIGNMENT
N–NB–SP	SEWARD HIGHWAY – NORTHERN NORTHBOUND SPECIAL ALIGNMENT
N–SB–SP	SEWARD HIGHWAY – NORTHERN SOUTHBOUND SPECIAL ALIGNMENT
BD–1	BRAYTON DRIVE – HUFFMAN RD TO O'MALLEY RD
BD–2	BRAYTON DRIVE – O'MALLEY RD TO SCOOTER AVE
BD–3	BRAYTON DRIVE – SCOOTER AVE TO DIMOND BLVD
BD–4	BRAYTON DRIVE – DIMOND BLVD TO 76TH AVE
HD–3	HOMER DRIVE – SCOOTER AVE TO DIMOND BLVD
HD–4	HOMER DRIVE – DIMOND BLVD TO 76TH AVE
OM–1	NORTHBOUND ON–RAMP AT O'MALLEY RD
OM–1E	NORTHBOUND, EAST ON–RAMP AT O'MALLEY RD
OM–2	NORTHBOUND OFF–RAMP AT O'MALLY RD
OM–2E	NORTHBOUND, EAST OFF–RAMP AT O'MALLEY RD
OM–3	SOUTHBOUND ON–RAMP AT O'MALLEY RD
OM–3W	SOUTHBOUND, WEST ON–RAMP AT O'MALLEY RD
OM–4	SOUTHBOUND OFF–RAMP AT O'MALLEY RD
OM–4W	SOUTHBOUND, WEST OFF–RAMP AT O'MALLEY RD
SA–2	NORTHBOUND OFF–RAMP AT SCOOTER AVE
SA–3	SOUTHBOUND ON–RAMP AT SCOOTER AVE
SA–4	SOUTHBOUND OFF–RAMP AT SCOOTER AVE
DI–1	NORTHBOUND ON–RAMP AT DIMOND BLVD
DI–2	NORTHBOUND OFF–RAMP AT DIMOND BLVD
DI–4	SOUTHBOUND OFF–RAMP AT DIMOND BLVD
DI–5	NORTHBOUND LOOP ON–RAMP AT DIMOND BLVD
X–OM–EB	O'MALLEY RD EASTBOUND
X–OM–WB	O'MALLEY RD WESTBOUND
X–SA	SCOOTER AVENUE / ACADEMY DRIVE
TA	THUJA AVE – EAST OF BD–2
CC	CEDRUS COURT – EAST OF BD–2
9599	9599 BRAYTON DR – EAST OF BD–2
9499	9499 BRAYTON DR – EAST OF BD–2
UC	UNIFICATION CHURCH – NORTH OF X–SA
HM–S	S HEATHER MEADOWS LP – EAST OF BD–3
MC	MOSS CREEK AVE – EAST OF BD–3
HM–N	N HEATHER MEADOWS LP – EAST OF BD–3
80–E	80TH AVENUE – WEST OF HD–4
TC	TRAILER COURT – EAST OF BD–2
WP	WEST PATHWAY
SBX	SOUTHBOUND TEMP CROSSOVER
NBX	NORTHBOUND TEMP CROSSOVER
DI–2X	DIMOND TEMP NORTHBOUND OFF–RAMP
DI–3X	DIMOND TEMP SOUTHBOUND ON–RAMP
MCX	MOSS CREEK TEMP ACCESS

INDEX

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT–OF–WAY. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT–OF–WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE RIGHT–OF–WAY LINES SHOWN WERE CREATED FOR THIS PROJECT BY ALASKA DOT&PF ROW ENGINEERING AND ARE BASED ON RECORDED DOCUMENTS AND/OR PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS. THE RIGHT–OF–WAY LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
3. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
4. WITHIN THE PROJECT LIMITS, CLEAR ALL TREES INSIDE THE ROW, WITH THE FOLLOWING EXCEPTIONS:
   - FROM O'MALLEY ROAD TO SCOOTER AVENUE, WHERE THE GRADING ALLOWS, HAND CLEAR ALL TREES AND SHRUBS LESS THAN OR EQUAL TO 5 INCHES DIAMETER. THIS HAND CLEARING SHALL BE BETWEEN THE GRADING LIMITS FOR THE WEST PATHWAY AND SEWARD HIGHWAY SHOWN ON THE PLANS.
   - IN WETLAND AREAS, CLEARING LIMITS SHALL BE 5–FT BEYOND SLOPE CATCH POINTS.
5. PLACE 4" TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
6. THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS–BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
7. ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

   IF ANY PAVEMENT PENETRATION REQUIRES GRADE ADJUSTMENT AFTER FINAL LIFT PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. USE AN INFRARED HEATER TO HEAT THE EXISTING PAVEMENT; EQUIPMENT AND MAXIMUM TEMPERATURE SHALL BE APPROVED BY THE ENGINEER. REPLACE THE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS, AT LEAST 12 INCHES WIDE, CENTERED ON JOINT, USING ASPHALT SYSTEMS GSB–88, OR APPROVED EQUAL, WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE AND PRIOR TO STRIPING.

   THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.
8. CONSTRUCT RAMP RUNS, LANDINGS, FLARES, AND SIDEWALK EXTENSIONS SHOWN IN THE PLANS USING 4" CONCRETE REGARDLESS OF WHETHER THE EXISTING SIDEWALK/PATHWAY IS ASPHALT OR CONCRETE.
9. CONSTRUCT CURB RAMPS TO AVOID IMPACTING SIGNAL POLE FOUNDATIONS. DO NOT COVER SIGNAL POLE FOUNDATION BOLTS AND BASE PLATES WITH TOPSOIL.
10. FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 2 FEET.
11. ALL TYPE "A" INLET BOXES SHALL HAVE MINIMUM 18" SLUMPS.

THE FOLLOWING CENTRAL REGION STANDARD DETAILS APPLY TO THIS PROJECT:

CR–T–01.20, CR–T–04.10

IN THE EVENT OF CONFLICT, CENTRAL REGION STANDARD DETAILS SUPERSEDE ALASKA STANDARD PLANS, STANDARD MODIFICATIONS, AND STANDARD SPECIFICATIONS. PLANS AND SPECIAL PROVISIONS SUPERSEDE CENTRAL REGION STANDARD DETAILS.

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C–04.12, C–05.20
D–01.02, D–04.22, D–06.10, D–20.05, D–22.01, D–23.01 D–24.00,
D–26.04, D–42.12, D–43.12, D–44.12, D–45.12
E–09.00
F–01.04, F–03.02
G–00.05, G–05.11S, G–05.11W, G–09.04W, G–09.05S, G–10.20, G–11.01,
G–14.01, G–20.12, G–26.00, G–29.00, G–32.02, G–46.12, G–47.00
I–21.12, I–22.11
L–30.11
M–13.01, M–16.01
S–00.12, S–05.02, S–23.00, S–30.05, S–31.02, S–32.02, S–52.01
T–05.10, T–20.04, T–21.04, T–22.04, T–23.01, T–25.10, T–30.12,
T–52.22, T–54.11, T–55.11, T–56.11, T–57.11
U–03.01

DESIGN DESIGNATIONS

	BRAYTON DRIVE				HOMER DRIVE		O'MALLEY ROAD RAMPS				SCOOTER AVENUE RAMPS			DIMOND BOULEVARD RAMPS			
	BD–1	BD–2	BD–3	BD–4	HD–3	HD–4	OM–1 OM–1E	OM–2 OM–2E	OM–3 OM–3W	OM–4 OM–4W	SA–2	SA–3	SA–4	DI–1	DI–2	DI–4	DI–5
FUNCTIONAL CLASS	MINOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR	MAJOR COLLECTOR	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP
AADT (2016)	888	2,621	2,621	9,000	0	1,890	9,956	5,342	4,334	7,041	0	0	0	9,350	3,242	12,649	–
AADT (2040)	1,000	2,000	2,000	5,000	2,000	2,000	10,000	5,000	5,000	10,000	3,000	5,000	14,000	20,000	3,000	6,000	–
DESIGN SPEED (V) (MPH)	45	45	45	45	45	45	50	50	50	50	50	50	50	50	50	50	–
DHV (2016)	10%	10%	10%	10%	N/A	10%	10%	10%	10%	10%	N/A	N/A	N/A	10%	10%	10%	–
DHV (2040)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	–
T–PERCENT COMMERCIAL TRUCKS	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%	–
D–DIRECTIONAL DISTRIBUTION (%)	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

INDEX, GENERAL NOTES AND ALIGNMENT DESIGNATIONS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A3	A13

ROADWAY

	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		CUT / FILL
GRAVEL EDGE		
DRIVEWAY APPROACH		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID–BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE	X — X	X — X
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX	MB	MB
POST, BOLLARD		
PATTERNED CONCRETE		
JERSEY BARRIER		
ASPHALT		
CONCRETE		
DRIVE GATE		
ROCK FLUME DOWNDRAIN		

UTILITIES

	EXISTING	PROPOSED
STORM DRAIN	SD	SD
STORM DRAIN MANHOLE, CLEANOUT	SD CO	SD
CURB INLET CATCH BASIN FIELD INLET CATCH BASIN	FI	FI
PIPE CULVERT WITH END SECTION		
SANITARY SEWER	SS	SS
SANITARY SEWER MANHOLE, CLEANOUT	SS CO	SS
SEPTIC VENT, SEWER SERVICE CONNECTION	S	
WATER	W	W
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION	W	
NATURAL GAS	G G	
OIL OR GASOLINE PIPELINE	O O	
TANKS (ABOVE GROUND, UNDERGROUND)	U	
ELECTRIC	OE (OVERHEAD) UE (UNDERGROUND) OE&OT (OVERHEAD)	
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR	GP	
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER	E	
ELECTRIC MANHOLE, METER	E	
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE	OT (OVERHEAD) UT (UNDERGROUND) UT&TV (UNDERGROUND)	
TELEPHONE MANHOLE, PEDESTAL	T	
FIBER OPTIC	FO	
FIBER OPTIC MANHOLE	FO	
CABLE TV	OTV (OVERHEAD) UTV (UNDERGROUND)	
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

RIGHT–OF–WAY

	RECOVERED	SET THIS PROJECT
FEDERAL GOV'T SURVEY MONUMENT		
GOV'T CONTROL STATION		
PRIMARY MONUMENT (BRASS/AL CAP)		
MISC SECONDARY CORNER		
PRIMARY CENTERLINE MONUMENT		
SECONDARY CENTERLINE MONUMENT		
RANDOM CONTROL MONUMENT	RCM	
PRIMARY GPS CONTROL POINT	GPS	
HORIZONTAL CONTROL POINT	CP	
SECONDARY CONTROL POINT	SCP	
VERTICAL BENCHMARK	BM	
TEMPORARY BENCHMARK	TBM	
TOWNSHIP AND RANGE LINES	T13N / T12N, R2W / R3W	
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
CORPORATE or CITY LIMITS		
EXISTING RIGHT–OF–WAY		
RIGHT–OF–WAY OR EASEMENT REQUIRED		
PROJECT RIGHT–OF–WAY LINE		
EXISTING RIGHT–OF–WAY EASEMENT		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING UTILITY EASEMENT		
PROPOSED UTILITY EASEMENT		
EXISTING CENTERLINE		
RAILROAD CENTERLINE		
TEMPORARY CONSTRUCTION EASEMENT		
TEMPORARY CONSTRUCTION PERMIT		

TOPOGRAPHY

	EXISTING	PROPOSED
LAKE OR POND, WETLANDS	LAKE/POND	
TREE (CONIFER/DECIDUOUS) TREELINE (EDGE OF VEGETATION)		
PLANTER	P	
BUILDING OR FOUNDATION		
CONTOUR, MAJOR OR MINOR	520	520
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LEGEND SHEET (1 OF 2)

STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

RM | DRAFTED | MR | CHECKED | JM | DESIGNED | A3 | LAYOUT | 4/11/2022 11:37 AM | DATE/TIME

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TRAFFIC

	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX	15 26 37 48	60 ## ## ##
FIBER OPTIC VAULT	F/O 59	F/O #
ELECTROLIER	12 99 78 13	
HIGHTOWER	HT#	HT#
SIGNAL POLE WITH MASTARM	49	14
PEDESTRIAN PUSH BUTTON & SIGNAL	68 12	# #
VEHICULAR SIGNAL	44	##
VEHICULAR SIGNAL LEFT & RIGHT	62 24	17 ##
EVP, CAMERA, RADAR, AND GPS DETECTOR	CAM # A RAD # GPS	CAM # A RAD # GPS
LOOP DETECTOR	555	735
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON	25 7 24 55 78 65 123 45	
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT	TR	TR
LIGHTING CONDUIT	LTG	LTG
SIGNAL & LIGHTING CONDUIT	T/L	T/L
CONDUIT BORING		
CONDUIT SIZE IN INCHES	2" 3C4	2" 1-3C4 CKT BA12 CKT BA13
INTERCONNECT	I/C	I/C
SIGN POST		22
OVERHEAD SIGN		
ELECTROLIER MOUNTED SIGN		
BRIDGE MOUNTED SIGN		
OVERHEAD SIGN STRUCTURE		
LANDSCAPE CONTROLLER		C
TURNPIKE/OFFSET ELECTROLIER, NO DAVIT ARM		
UNDERDECK LUMINAIRE		
PRIVATE SIGN		

PAVEMENT MARKINGS

	PROPOSED
TRAFFIC PROJECT CENTERLINE	
8" & 4" WHITE SOLID STRIPE	8"W 4"W
8" & 4" YELLOW SOLID STRIPE	8"Y 4"Y
4" YELLOW SOLID STRIPE 2" STRIPES @ 4" APART	4"DBL Y
4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES	4"W SKIP
4" WHITE GUIDE SKIP 2' STRIPES AND 6' SPACES	4"W GUIDE SKIP
8" WHITE GUIDE SKIP LANE CONTINUATION OR TURN SKIP 1' STRIPES AND 3' SPACES	8"W GUIDE SKIP
4" WHITE DASH STRIPE 6' STRIPES AND 3' SPACES	4"W DASH
16" WHITE DASH STRIPE 6' STRIPES AND 3' SPACES	16"W DASH
4" WHITE LANE DROP MARKING 3' STRIPES AND 9' SPACES	4"W LDM
8" WHITE LANE DROP MARKING 3' STRIPES AND 9' SPACES	8"W LDM
STRIPING CHANGE STATION INTERVAL	+20 └1234+56
2' CROSSWALK OR STOPBAR	24"W (TYP)
GAP CROSSWALK LAYOUT 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS	
TYPICAL PAINTED MEDIAN	12' (2)-4"Y 3" APART; VARIES; 18"Y @ 45'
TYPICAL EXIT GORE MARKING RAMPS: OM-4, SA-2, SA-4, DI-2, DI-4	18" W @ 45' TYP; HIGHWAY TRAFFIC; 12' TYP; 8"W; 8"W; VARIES; RAMP TRAFFIC
ROUNDABOUT GORE MARKING: SCOOTER AVE & ACADEMY DR ROUNDABOUTS	18" W @ 45' TYP; TRAFFIC; 7' TYP; 8"W; 8"W; VARIES; TRAFFIC

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A4	A13

ABBREVIATIONS:

@	AT	ELEV, EV	ELEVATION	PI	POINT OF INTERSECTION
&	AND	ELL	ELBOW	PL	PLACE, PLATE, PROPERTY LINE
%	PERCENT	ENGR	ENGINEER	PC, POC	POINT OF CURVATURE
⌀	DIAMETER	EOP	EDGE OF PAVEMENT	PCC	PORTLAND CEMENT CONCRETE
Δ	INTERSECTION ANGLE	EQ	EQUAL, EQUALLY	PCC	POINT OF CONTINUED CURVE
4WD	FOUR WHEEL DRIVE	ES	END SECTION	POT, PT	POINT OF TANGENCY
AB	ANCHOR BOLT, AGGREGATE BASE	ESMT	EASEMENT	PP	POWER POLE
AC	ASPHALT CONCRETE	EST	ESTIMATED	PRC	POINT OF REVERSE CURVE
ACI	AMERICAN CONCRETE INSTITUTE	EW	EACH WAY	PRV	PRESSURE REDUCING VALVE
ADH AB	ADHESIVE ANCHOR BOLT	EXP	EXPOSED, EXPANSION	PSF	POUNDS PER SQUARE FOOT
AL	ALUMINUM	EXST, EX	EXISTING	PSI	POUNDS PER SQUARE INCH
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FC	FLEXIBLE COUPLING	PSIG	POUNDS PER SQUARE INCH GAUGE
APPROX	APPROXIMATE	FCA	FLANGED COUPLING ADAPTER	PT	POINT, POINT OF TANGENT
APPD	APPROVED	FDN	FOUNDATION	PU	PUBLIC USE
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS	FG	FINISH GRADE	PVC	POLYVINYL CHLORIDE PLASTIC
AVE	AVENUE	FH	FIRE HYDRANT	PVI	POINT OF VERTICAL INTERSECTION
AWG	AMERICAN WIRE GAGE	FI	FIELD INLET	PVMT	PAVEMENT
BF	BLIND FLANGE, BOTTOM FACE	FIG	FIGURE	Q	FLOW
BFV	BUTTERFLY VALVE	FL	FLOW LINE (ELEV)	R, RAD	RADIUS
BLVD	BOULEVARD	FLG	FLANGE	RCP	REINFORCED CONCRETE PIPE
BM	BENCH MARK	FNSH	FINISH	RD	ROAD
BO	BLOW OFF	FO	FIBER OPTIC	RDCR	REDUCER
BOA	BEGINNING OF ALIGNMENT	FT	FOOT OR FEET	REF	REFER OR REFERENCE
BOP	BOTTOM OF PIPE	FTG	FOOTING	REINF	REINFORCED, REINFORCING
BOT	BOTTOM	F	DEGREE FAHRENHEIT	REQD	REQUIRED
BR	BRIDGE	G	GAS	RJ	RESTRAINED JOINT
BRG	BEARING	GA	GAGE, GAUGE	RMC	RIGID METAL CONDUIT
C	HAZEN WILLIAMS FRICTION COEFFICIENT, CHANNEL (BEAM)	GALV	GALVANIZED	ROW, R/W	RIGHT-OF-WAY
CC	CURB CUT	GB	GRADE BREAK	RT	RIGHT
C&G	CURB AND GUTTER	GPM	GALLONS PER MINUTE	S	SOUTH, SLOPE
CB	CATCH BASIN, CIRCUIT BREAKER	GPS	GLOBAL POSITIONING SYSTEM	SCH	SCHEDULE
CBMH	CATCH BASIN, MANHOLE	GSP	GALVANIZED STEEL PIPE	SD	STORM DRAIN
CDF	CONTROLLED DENSITY FILL	GV	GATE VALVE	SDWK	SIDEWALK
CF	CUBIT FEET	H	HEIGHT, HORIZONTAL	SH, SHT	SHEET
CFM	CUBIC FEET PER MINUTE	HDPE	HIGH-DENSITY POLYETHYLENE	SHLD	SHOULDER
CFS	CUBIC FEET PER SECOND	HGL	HYDRAULIC GRADE LINE	SNW	SOIL NAIL WALL
CI	CAST IRON	HP	HORSE POWER	SPA	SPACE, SPACING
CIDH	CAST IN DRILLED HOLE	ID	INSIDE DIAMETER	SPECS	SPECIFICATIONS
CIP	CAST IN PLACE	IE	INVERT ELEVATION	SQ	SQUARE
CIR	CIRCLE	IF	INSIDE FACE	SS	SANITARY SEWER
CJ	CONSTRUCTION JOINT	IN	INCH	SST	STAINLESS STEEL
CJP	COMPLETE JOINT PENETRATION	INVT, INV	INVERT	ST	STREET, STEEL PIPE, SHUNT TRIP
CKT	CIRCUIT	J, JB	JUNCTION BOX	STA	STATION
℄	CENTER LINE	JT	JOINT	STD	STANDARD
CLR	CLEAR	KV	KILOVOLT	STL	STEEL
CLSM	CONTROLLED LOW STRENGTH MATERIAL	KVA	KILOVOLT AMPERES	SY	SQUARE YARD
CMP	CORRUGATED METAL PIPE	KW	KILOWATT	SYMM	SYMMETRICAL
COL	COLUMN	L	LENGTH, LEFT	T	TANGENT, THERMOSTAT, THICKNESS
CONC	CONCRETE	LB	POUNDS	T&B	TOP AND BOTTOM
CONN	CONNECTION	LB/CU FT	POUNDS PER CUBIC FOOT	T&E	TELEPHONE AND ELECTRIC
CONST	CONSTRUCTION	LDM	LANE DROP MARKING	TBC	TOP BACK OF CURB
CONT	CONTINUOUS, CONTINUATION	LF	LINEAR FEET	TEL	TELEPHONE
CPEP	CORRUGATED POLYETHYLENE PIPE	LG	LONG	TEMP	TEMPERATURE
CPLG	COUPLING	LP	LOOP	TOC	TOP OF CURB
CPM	CRITICAL PATH METHOD	LT	LEFT	TW	TOP OF WALL
CPP	CORRUGATED POLYETHYLENE PIPE	LT/SUV	LIGHT TRUCK/SPORT UTILITY VEHICLE	TR, TRANS	TRANSITION
CS	CULVERT SECTION	MAX	MAXIMUM	TYP	TYPICAL
CSP	CORRUGATED STEEL PIPE	MB	MACHINE BOLT	UBC	UNIFORM BUILDING CODE
CT	COURT	MBM	THOUSAND FEET BOARD MEASURE	UG, U/G	UNDERGROUND
CTRD	CENTERED	ME	MATCH EXISTING	UH	UNIT HEATER
CTR	CENTER	MECH	MECHANICAL	UNK	UNKNOWN
CU	CUBIC, COPPER	MGD	MILLION GALLONS PER DAY	UT	ULTRASONIC
CY	CUBIC YARD	MH	MANHOLE	UTIL	UTILITY
DET	DETAIL	MHCB	MANHOLE WITH CATCH BASIN INLET	V	VENT, VOLT, VALVE, VERTICAL
DI	DROP INLET, DUCTILE IRON	MIN	MINIMUM	VB	VALVE BOX
DIA	DIAMETER	MISC	MISCELLANEOUS	V.C.	VERTICAL CURVE
DIAG	DIAGONAL	MJ	MECHANICAL JOINT	VERT, VT	VERTICAL
DIP	DUCTILE IRON PIPE	MMA	METHYL METHACRYLATE	V.P.C	VERTICAL POINT OF CURVE
DLT_{MIN}	MINIMUM DESIGN LOAD TRANSFER	MOA	MUNICIPALITY OF ANCHORAGE	V.P.I.	VERTICAL POINT OF INTERSECTION
DOT&PF	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	VVLT	VALVE VAULT
		N	NORTH	W/	WITH
DR	DRAINAGE	N.C., NC	NORMAL CROWN	W	WEST, WATER, WIDTH
DWG	DRAWING	NC, NIC	NOT IN CONTRACT	WCL	WALL CENTERLINE
DWGS	DRAWINGS	NO	NUMBER, NUMBERING	WL	WATER LINE
DWT	DETECTABLE WARNING TILE	NTS	NOT TO SCALE	WS	WATER SURFACE, WATER STOP
e	SUPERELEVATION	OC	ON CENTER	WT	WATER TABLE, WEIGHT
E	EAST	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN	WTM	WATER TRANSMISSION LINE
EA	EACH	OF	OUTSIDE FACE, OVERFLOW	Y	YELLOW
EF	EACH FACE, EXHAUST FAN	OH	OVERHEAD	YD	YARD
ELEC	ELECTRIC, ELECTRICAL				

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

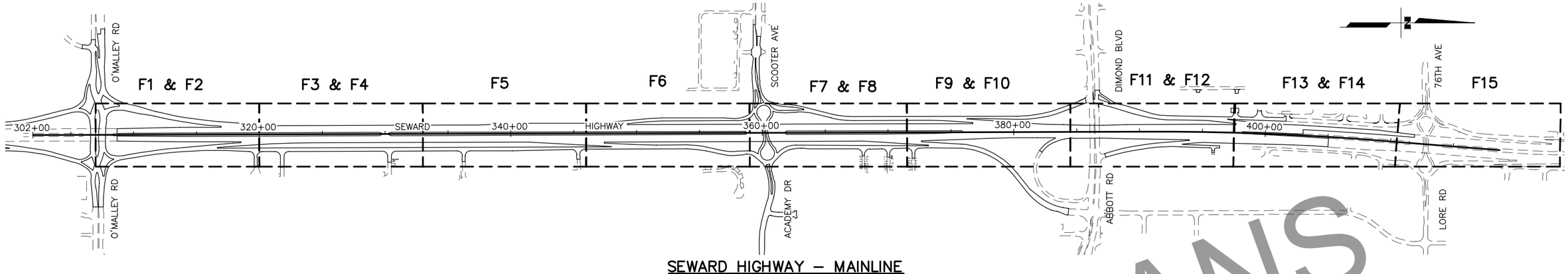
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

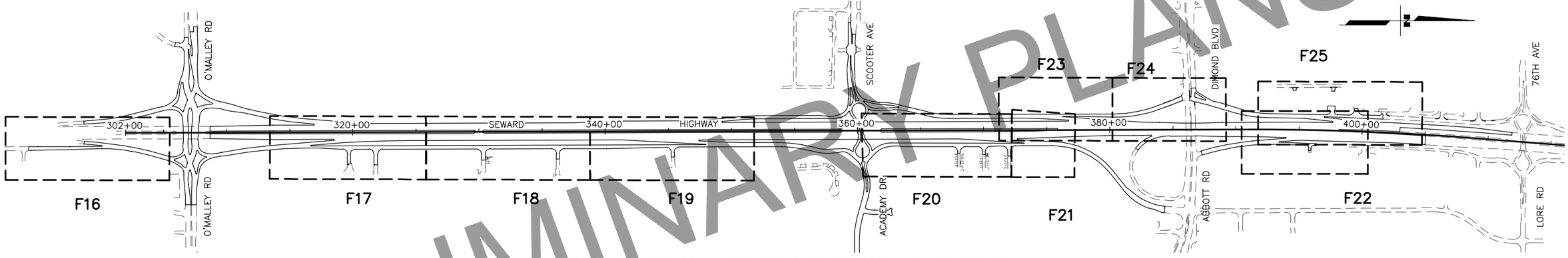
LEGEND SHEET (2 OF 2) AND ABBREVIATIONS

NO.	DATE	REVISION

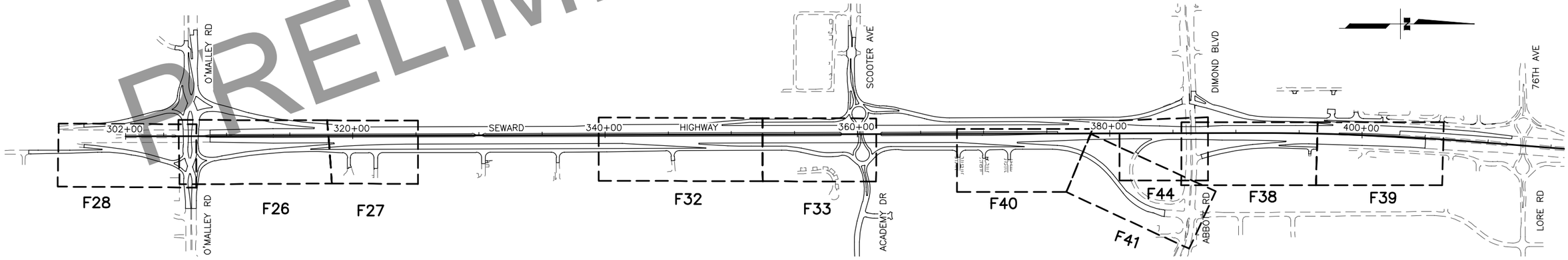
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A5	A13



SEWARD HIGHWAY – MAINLINE



FRONTAGE ROADS – BRAYTON DRIVE AND HOMER DRIVE



RAMPS – NORTHBOUND

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

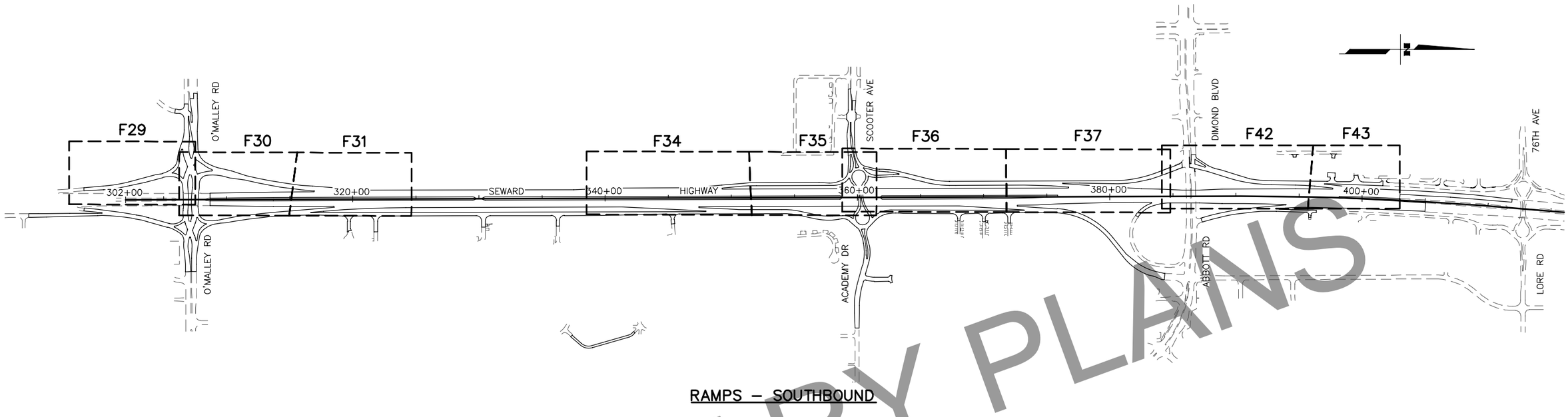
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SHEET LAYOUT (1 OF 3)

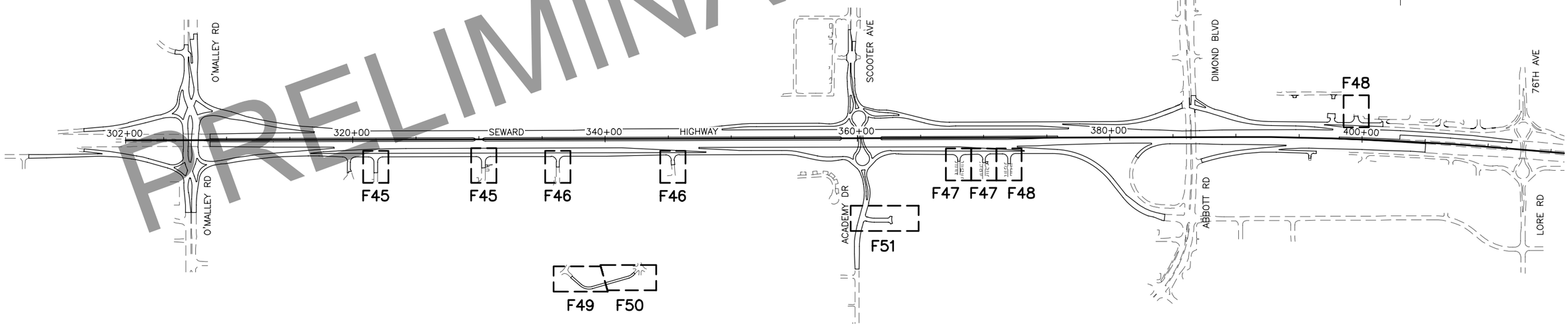
DATE/TIME 4/11/2022 11:37 AM | LAYOUT A5 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0875433\00012_A05_LAYOUT.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A6	A13



RAMPS – SOUTHBOUND



APPROACHES

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SHEET LAYOUT (2 OF 3)

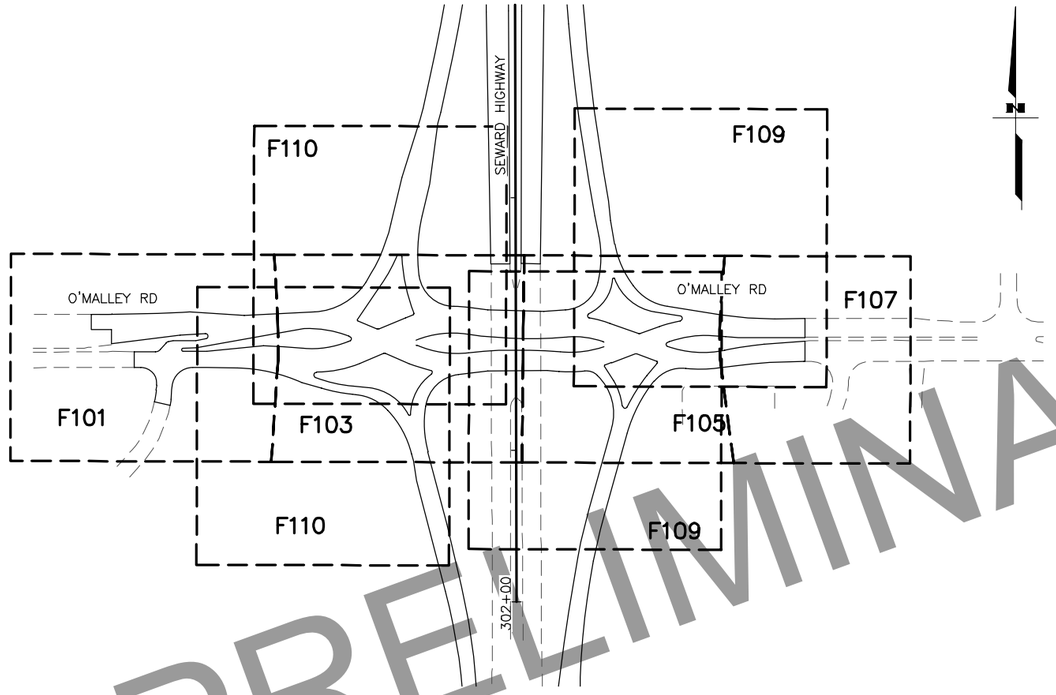
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

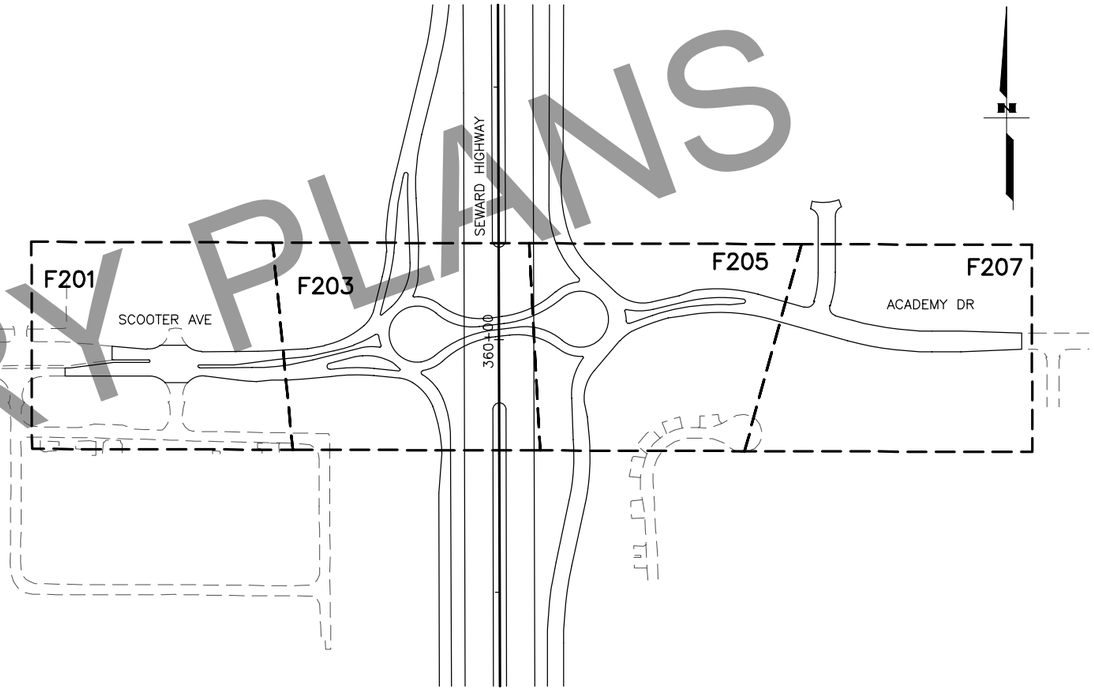
DATE/TIME | 4/11/2022 11:38 AM | LAYOUT | A6 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D08754333\00012_A06_LAYOUT.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A7	A13



O'MALLEY ROAD



SCOOTER AVENUE

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SHEET LAYOUT (3 OF 3)

DATE/TIME 4/11/2022 11:38 AM | LAYOUT A7 | DESIGNED JM | CHECKED MR | DRAFTED RM
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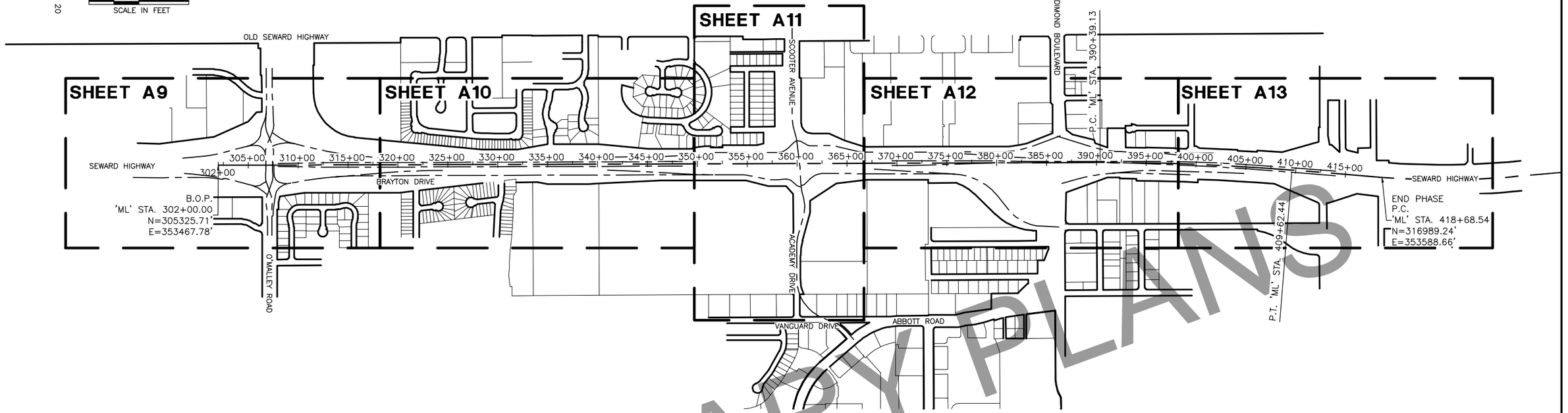
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A8	A13

T12N R3W S. M.
SEC. 7, 8, 17, & 20

0 250 500 1000
SCALE IN FEET



LEGEND

#	SURVEY POINT NUMBER
	PRIMARY GOVT. MONUMENT
GPS	GPS CONTROL POINT
CP	SURVEY CONTROL STATION
BM	VERTICAL BENCH MARK
TBM	TEMPORARY BENCH MARK
	RIGHT-OF-WAY LINE
	PROPERTY LINE
100+00	MAIN PROJECT ALIGNMENT 'ML'

SURVEY MONUMENTS (NOT SHOWN)

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	NAD83 GEODETIC COORDINATES LONGITUDE	LOCAL COORDINATES NORTHING	LOCAL COORDINATES EASTING	ELEVATION	DESCRIPTION
868	321+65.19	3913.08' RT	N 61°07'37.3776"	W 149°50'03.4903"	307302.8879	357374.8188	247.59	Fd Rbr/PC[DOT]: LOS-3
27	334+44.74	9079.24' LT	N 61°07'49.8377"	W 149°54'28.0677"	308542.6331	344378.6463	87.56	Fd Rbr/PC[DOT]: MB-7

VERTICAL CONTROL (NOT SHOWN)

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	NAD83 GEODETIC COORDINATES LONGITUDE	LOCAL COORDINATES NORTHING	LOCAL COORDINATES EASTING	ELEVATION	DESCRIPTION
652	307+96.59	1375.40' RT	N 61°07'23.88"	W 149°50'55.14"	305927	354841	221.78	Fd AC/Pipe: MOA 17 (Project Elevation)
651	321+02.89	1389.58' LT	N 61°07'36.72"	W 149°51'51.46"	307224	352072	138.86	Fd Bolt/Washer: MOA 16 (Project Elevation)

SURVEY CONTROL NOTES:

HORIZONTAL CONTROL

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ANCHORAGE BOWL 2000 ADJUSTMENT, A LOCAL SURFACE GRID COORDINATE SYSTEM EXPRESSED IN U.S. SURVEY FEET UNITS DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION.

BASIS OF COORDINATES:
THE BASIS OF COORDINATES IS NGS STATION O'MALLEY, LOCATED NEAR THE INTERSECTION OF THE SEWARD HIGHWAY AND O'MALLEY ROAD. SAID STATION HAS ANCHORAGE BOWL 2000 COORDINATES OF 303,939.2310 N, 353,362.5446 E U.S. SURVEY FEET.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS IS A LOCAL PLANE BEARING BETWEEN NGS STATION O'MALLEY AND NGS STATION LOOP 2 USE RM 3 1964. NGS STATION LOOP 2 USE RM 3 1964 BEARS N 01°43'26.4" E A DISTANCE OF 49,488.4476 U.S. SURVEY FEET FROM NGS STATION O'MALLEY. NGS STATION LOOP 2 USE RM 3 1964 HAS ANCHORAGE BOWL 2000 COORDINATES OF 353,405.2778 N, 354,851.3982 E U.S. SURVEY FEET.

TRANSLATION PARAMETERS:
TO CONVERT THE LOCAL COORDINATES TO NAD83(92) STATE PLANE COORDINATES EXPRESSED IN U.S. SURVEY FEET, TRANSLATE USING +2,296,868.6878 N, +1,312,517.4904 E, AND SCALE USING 0.9998910192.

VERTICAL CONTROL

ELEVATIONS ARE 1972 MUNICIPALITY OF ANCHORAGE (MOA) ADJUSTMENT EXPRESSED IN U.S. SURVEY FEET. THE BASIS OF ELEVATIONS IS CONTROL STATION 3 "OPDMSW", AN ALUMINUM CAP ON A ROD AT THE NORTHEAST CORNER OF THE SEWARD HIGHWAY AND DIMOND BOULEVARD OVERPASS. OTHER PUBLISHED BENCHMARKS HELD THIS SURVEY ARE POINT #601, AS SHOWN ON PLAT 2008-38, ANCHORAGE RECORDING DISTRICT; AND POINT #650, MOA 8. BENCHMARKS MOA 16, MOA 17, AND MOA 21 WERE NOT HELD AND GIVEN PROJECT ELEVATIONS AS DETERMINED BY LEVEL LOOPS FOR THIS SURVEY.

VERTICAL CONTROL WAS PERFORMED BY DOT&PF BETWEEN DECEMBER 2015 AND FEBRUARY 2016. DOWL VERIFIED THE PROVIDED CONTROL VALUES FROM JULY 18, 2016 THROUGH NOVEMBER 23, 2016 USING DIGITAL DIFFERENTIAL LEVELS.

ALL VERTICAL CONTROL SHOULD BE VERIFIED BEFORE USE.

NOTES:

1. ALL CONTROL POINT LISTING OF STATION AND OFFSET ARE TO THE MAINLINE ALIGNMENT (ML).
2. THE INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED BY DOWL DURING VARIOUS TIMES FROM JULY 2016 THROUGH NOVEMBER 2021. BACKGROUND INFORMATION DEPICTED IS SHOWN FOR ORIENTATION PURPOSES ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE.
3. THIS SURVEY WAS PERFORMED TO PROVIDE SURVEY CONTROL AND DESIGN LEVEL TOPOGRAPHIC AND FEATURE MAPPING.
4. ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
5. TITLE RESEARCH WAS NOT PERFORMED AS PART OF THIS SURVEY, A THOROUGH EXAMINATION OF LAND TITLE IS NEEDED TO ENSURE ALL EASEMENTS, RESTRICTIONS AND RIGHTS ARE DEPICTED.
6. PROJECT CONTROL COORDINATES SHOWN ON THIS SHEET WERE ESTABLISHED BY USING LEAST-SQUARES ADJUSTED STATIC GPS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WORK AROUND ALL MONUMENTS WITHOUT DISTURBING THE MONUMENT OR CASE.
8. ALL MONUMENT CASES SHALL HAVE A SUFFICIENT PERMANENT RISER ADDED SO THE TOP OF THE MONUMENT CASE MATCHES THE FINISHED GRADE.
9. WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS, CORNERS, OR ACCESSORIES, WHICH WILL BE DISTURBED OR BURIED, SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.0440).

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, AND THAT THIS DRAWING REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT THE MONUMENTS SHOWN HEREON ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND OTHER DETAILS ARE CORRECT TO THE EXTENT SHOWN HEREON.

REVIEW ONLY

A. WILLIAM STOLL, LS-12041 DATE

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SURVEY CONTROL SHEET INDEX

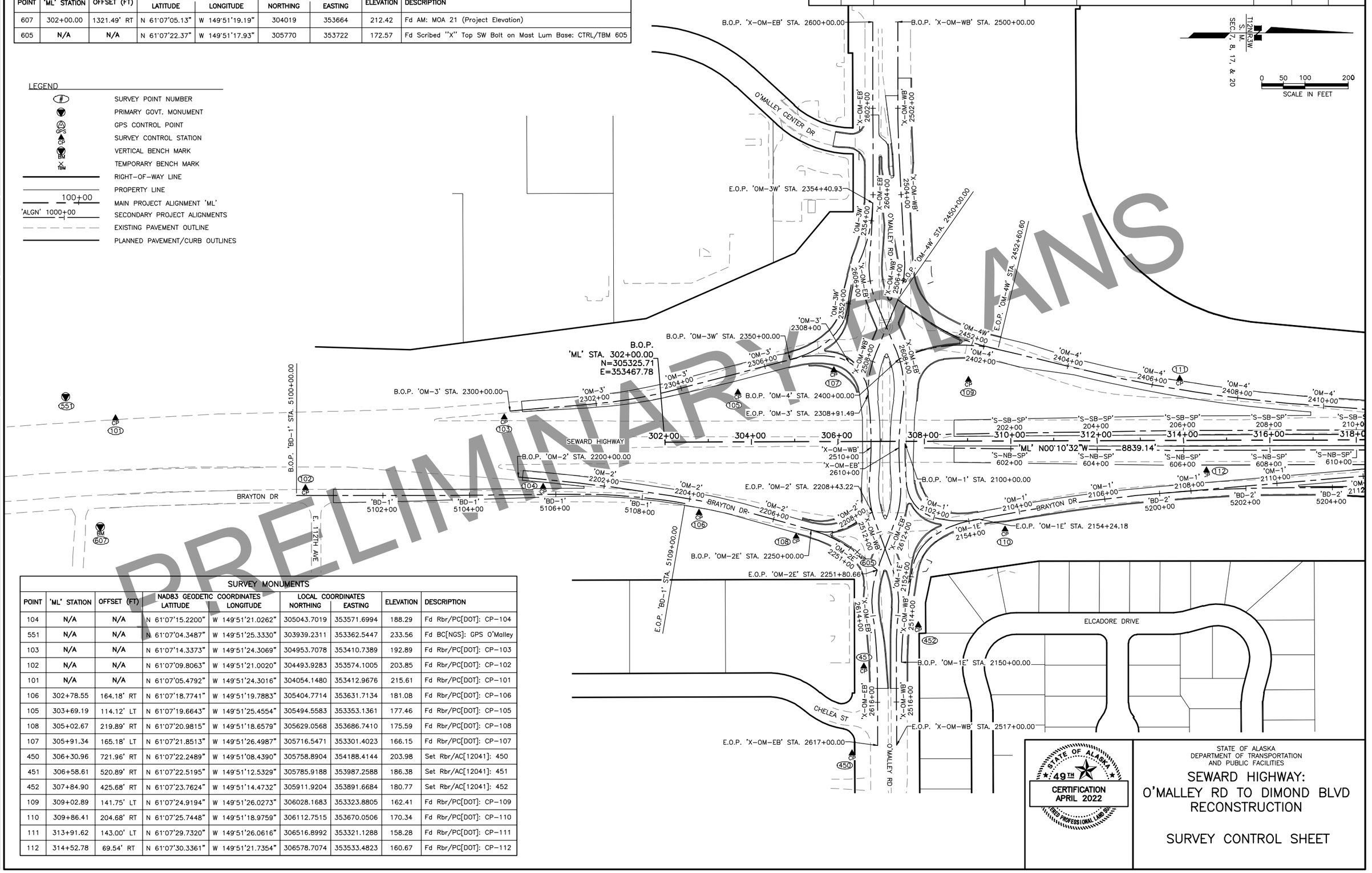
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A9	A13

VERTICAL CONTROL								
POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
607	302+00.00	1321.49' RT	N 61°07'05.13"	W 149°51'19.19"	304019	353664	212.42	Fd AM: MOA 21 (Project Elevation)
605	N/A	N/A	N 61°07'22.37"	W 149°51'17.93"	305770	353722	172.57	Fd Scribed "X" Top SW Bolt on Mast Lum Base: CTRL/TBM 605

LEGEND

- (#) SURVEY POINT NUMBER
- PRIMARY GOVT. MONUMENT
- GPS CONTROL POINT
- CP SURVEY CONTROL STATION
- BM VERTICAL BENCH MARK
- TBM TEMPORARY BENCH MARK
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- 100+00 MAIN PROJECT ALIGNMENT 'ML'
- 'ALGN' 1000+00 SECONDARY PROJECT ALIGNMENTS
- EXISTING PAVEMENT OUTLINE
- PLANNED PAVEMENT/CURB OUTLINES



SURVEY MONUMENTS								
POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
104	N/A	N/A	N 61°07'15.2200"	W 149°51'21.0262"	305043.7019	353571.6994	188.29	Fd Rbr/PC[DOT]: CP-104
551	N/A	N/A	N 61°07'04.3487"	W 149°51'25.3330"	303939.2311	353362.5447	233.56	Fd BC[NGS]: GPS O'Malley
103	N/A	N/A	N 61°07'14.3373"	W 149°51'24.3069"	304953.7078	353410.7389	192.89	Fd Rbr/PC[DOT]: CP-103
102	N/A	N/A	N 61°07'09.8063"	W 149°51'21.0020"	304493.9283	353574.1005	203.85	Fd Rbr/PC[DOT]: CP-102
101	N/A	N/A	N 61°07'05.4792"	W 149°51'24.3016"	304054.1480	353412.9676	215.61	Fd Rbr/PC[DOT]: CP-101
106	302+78.55	164.18' RT	N 61°07'18.7741"	W 149°51'19.7883"	305404.7714	353631.7134	181.08	Fd Rbr/PC[DOT]: CP-106
105	303+69.19	114.12' LT	N 61°07'19.6643"	W 149°51'25.4554"	305494.5583	353353.1361	177.46	Fd Rbr/PC[DOT]: CP-105
108	305+02.67	219.89' RT	N 61°07'20.9815"	W 149°51'18.6579"	305629.0568	353686.7410	175.59	Fd Rbr/PC[DOT]: CP-108
107	305+91.34	165.18' LT	N 61°07'21.8513"	W 149°51'26.4987"	305716.5471	353301.4023	166.15	Fd Rbr/PC[DOT]: CP-107
450	306+30.96	721.96' RT	N 61°07'22.2489"	W 149°51'08.4390"	305758.8904	354188.4144	203.98	Set Rbr/AC[12041]: 450
451	306+58.61	520.89' RT	N 61°07'22.5195"	W 149°51'12.5329"	305785.9188	353987.2588	186.38	Set Rbr/AC[12041]: 451
452	307+84.90	425.68' RT	N 61°07'23.7624"	W 149°51'14.4732"	305911.9204	353891.6684	180.77	Set Rbr/AC[12041]: 452
109	309+02.89	141.75' LT	N 61°07'24.9194"	W 149°51'26.0273"	306028.1683	353323.8805	162.41	Fd Rbr/PC[DOT]: CP-109
110	309+86.41	204.68' RT	N 61°07'25.7448"	W 149°51'18.9759"	306112.7515	353670.0506	170.34	Fd Rbr/PC[DOT]: CP-110
111	313+91.62	143.00' LT	N 61°07'29.7320"	W 149°51'26.0616"	306516.8992	353321.1288	158.28	Fd Rbr/PC[DOT]: CP-111
112	314+52.78	69.54' RT	N 61°07'30.3361"	W 149°51'21.7354"	306578.7074	353533.4823	160.67	Fd Rbr/PC[DOT]: CP-112

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SURVEY CONTROL SHEET

DRAFTED | CHECKED | DESIGNED | A9 | LAYOUT | 4/8/2022 9:44 AM | DATE/TIME

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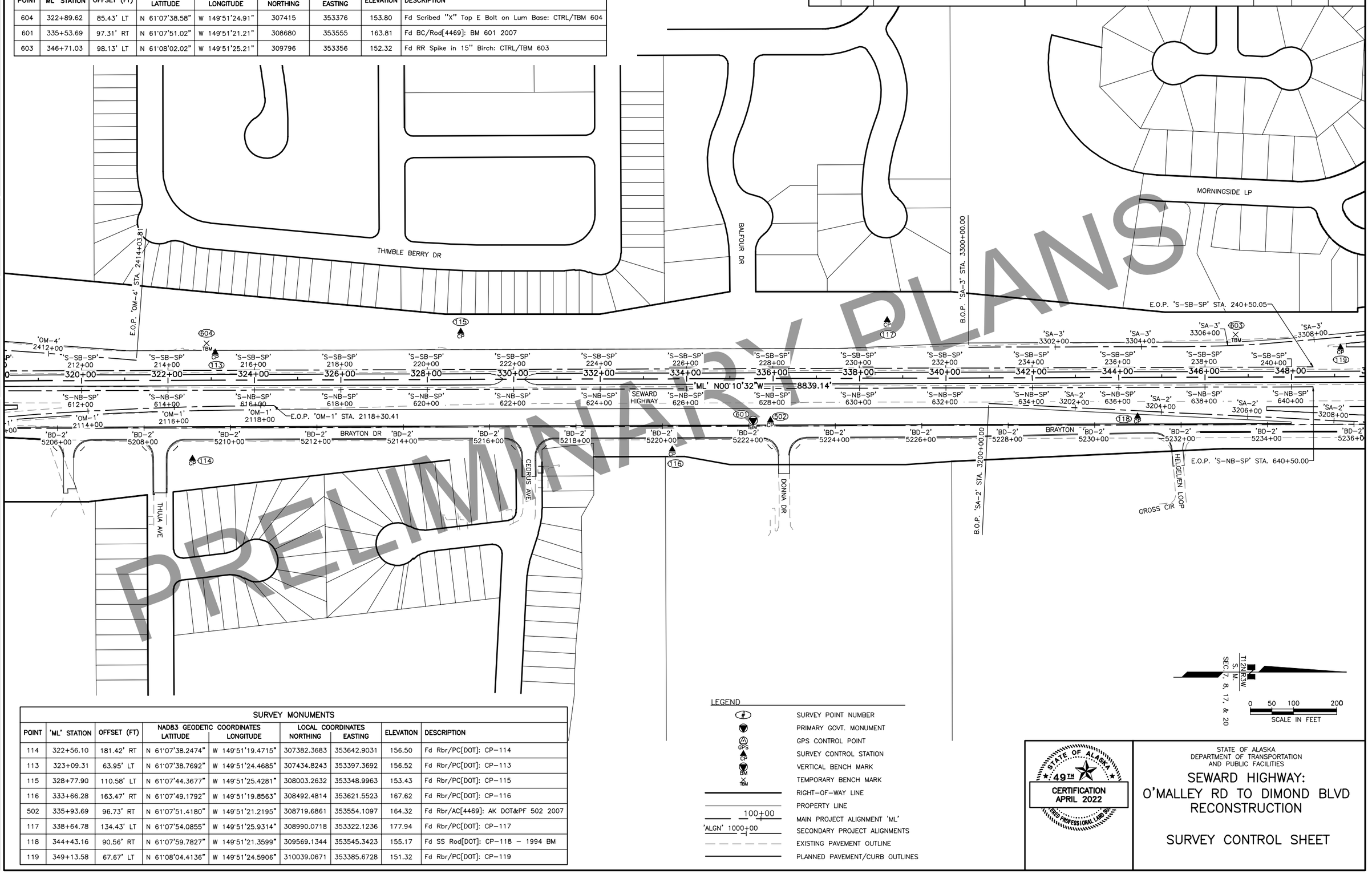
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A10	A13

DRAFTED | CHECKED | DESIGNED | LAYOUT A10 | DATE/TIME 4/8/2022 9:44 AM | FILE C:\DOWL_PW\D0391310\SC-CS-VC-62153.DWG

VERTICAL CONTROL

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
604	322+89.62	85.43' LT	N 61°07'38.58"	W 149°51'24.91"	307415	353376	153.80	Fd Scribed "X" Top E Bolt on Lum Base: CTRL/TBM 604
601	335+53.69	97.31' RT	N 61°07'51.02"	W 149°51'21.21"	308680	353555	163.81	Fd BC/Rod[4469]: BM 601 2007
603	346+71.03	98.13' LT	N 61°08'02.02"	W 149°51'25.21"	309796	353356	152.32	Fd RR Spike in 15" Birch: CTRL/TBM 603



SURVEY MONUMENTS

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
114	322+56.10	181.42' RT	N 61°07'38.2474"	W 149°51'19.4715"	307382.3683	353642.9031	156.50	Fd Rbr/PC[DOT]: CP-114
113	323+09.31	63.95' LT	N 61°07'38.7692"	W 149°51'24.4685"	307434.8243	353397.3692	156.52	Fd Rbr/PC[DOT]: CP-113
115	328+77.90	110.58' LT	N 61°07'44.3677"	W 149°51'25.4281"	308003.2632	353348.9963	153.43	Fd Rbr/PC[DOT]: CP-115
116	333+66.28	163.47' RT	N 61°07'49.1792"	W 149°51'19.8563"	308492.4814	353621.5523	167.62	Fd Rbr/PC[DOT]: CP-116
502	335+93.69	96.73' RT	N 61°07'51.4180"	W 149°51'21.2195"	308719.6861	353554.1097	164.32	Fd Rbr/AC[4469]: AK DOT&PF 502 2007
117	338+64.78	134.43' LT	N 61°07'54.0855"	W 149°51'25.9314"	308990.0718	353322.1236	177.94	Fd Rbr/PC[DOT]: CP-117
118	344+43.16	90.56' RT	N 61°07'59.7827"	W 149°51'21.3599"	309569.1344	353545.3423	155.17	Fd SS Rod[DOT]: CP-118 – 1994 BM
119	349+13.58	67.67' LT	N 61°08'04.4136"	W 149°51'24.5906"	310039.0671	353385.6728	151.32	Fd Rbr/PC[DOT]: CP-119

LEGEND

- (#) SURVEY POINT NUMBER
- PRIMARY GOVT. MONUMENT
- GPS GPS CONTROL POINT
- CP SURVEY CONTROL STATION
- BM VERTICAL BENCH MARK
- TBM TEMPORARY BENCH MARK
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- 100+00 MAIN PROJECT ALIGNMENT 'ML'
- 'ALGN' 1000+00 SECONDARY PROJECT ALIGNMENTS
- EXISTING PAVEMENT OUTLINE
- PLANNED PAVEMENT/CURB OUTLINES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SURVEY CONTROL SHEET

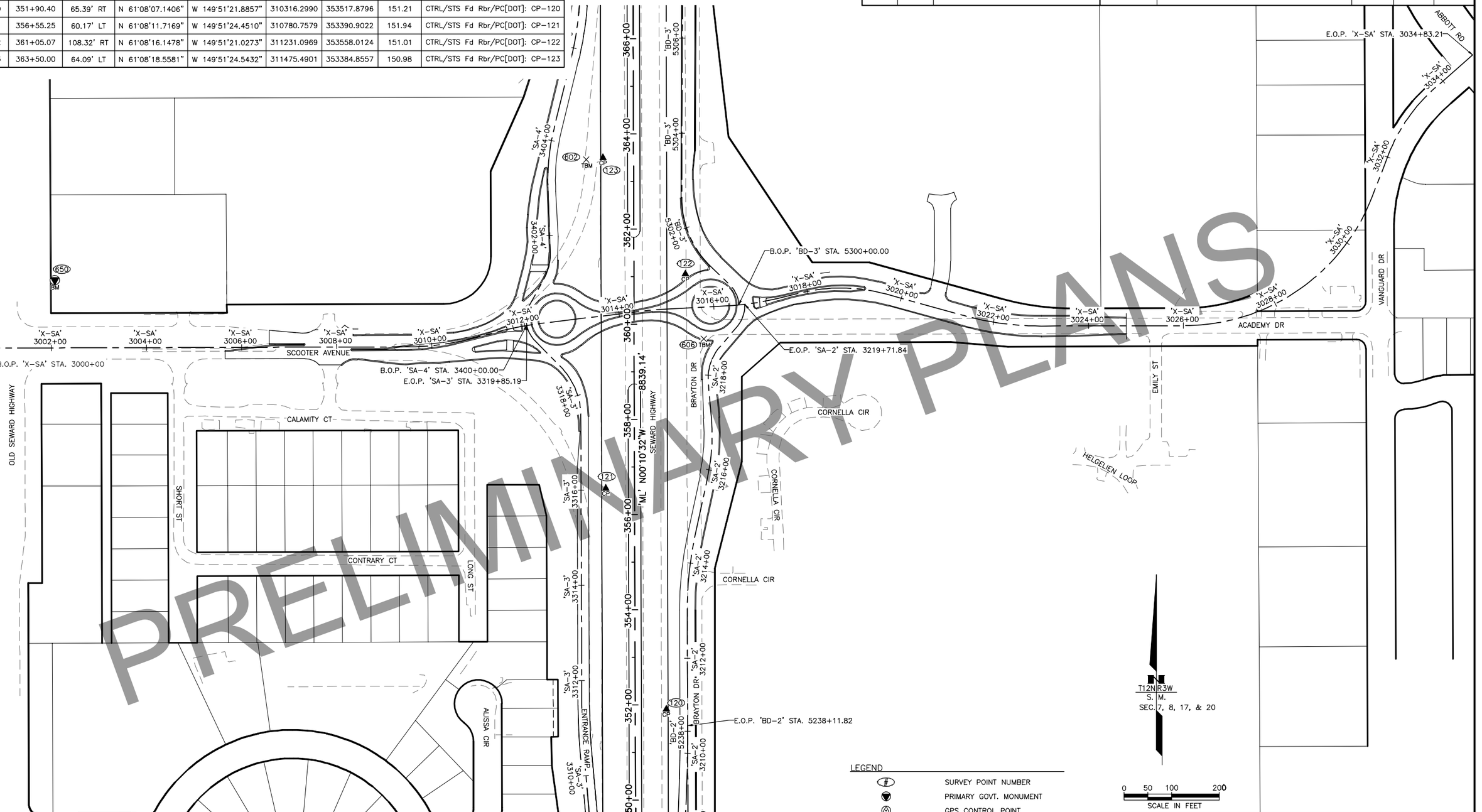
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A11	A13

DRAFTED | CHECKED | DESIGNED | LAYOUT | A11 | DATE/TIME | 4/8/2022 9:45 AM | FILE | C:\DOWL_PW\D0391310\SC-CS-VC-62153.DWG

SURVEY MONUMENTS

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
120	351+90.40	65.39' RT	N 61°08'07.1406"	W 149°51'21.8857"	310316.2990	353517.8796	151.21	CTRL/STS Fd Rbr/PC[DOT]: CP-120
121	356+55.25	60.17' LT	N 61°08'11.7169"	W 149°51'24.4510"	310780.7579	353390.9022	151.94	CTRL/STS Fd Rbr/PC[DOT]: CP-121
122	361+05.07	108.32' RT	N 61°08'16.1478"	W 149°51'21.0273"	311231.0969	353558.0124	151.01	CTRL/STS Fd Rbr/PC[DOT]: CP-122
123	363+50.00	64.09' LT	N 61°08'18.5581"	W 149°51'24.5432"	311475.4901	353384.8557	150.98	CTRL/STS Fd Rbr/PC[DOT]: CP-123



VERTICAL CONTROL

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
606	359+68.73	146.38' RT	N 61°08'14.81"	W 149°51'20.25"	311095	353596	153.58	CTRL/TBM Fd Scribed "X" Top W Bolt on Fire Hydrant: CTRL/TBM 606
650	360+96.32	1217.40' LT	N 61°08'16.05"	W 149°51'48.03"	311218	352232	123.27	CTRL/VBM Fd Bolt/Washer: MOA 8
602	363+46.25	99.36' LT	N 61°08'18.52"	W 149°51'25.26"	311472	353350	144.23	CTRL/TBM Fd RR Spike in 8" Spruce: CTRL/TBM 602

LEGEND

- (#) SURVEY POINT NUMBER
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- PROPERTY LINE
- 100+00 MAIN PROJECT ALIGNMENT 'ML'
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- EXISTING PAVEMENT OUTLINE
- PLANNED PAVEMENT/CURB OUTLINES

T12N R3W
S. M.
SEC. 7, 8, 17, & 20

0 50 100 200
SCALE IN FEET

STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SURVEY CONTROL SHEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A12	A13

DRAFTED | CHECKED | DESIGNED | LAYOUT A12 | 4/8/2022 9:45 AM | DATE/TIME

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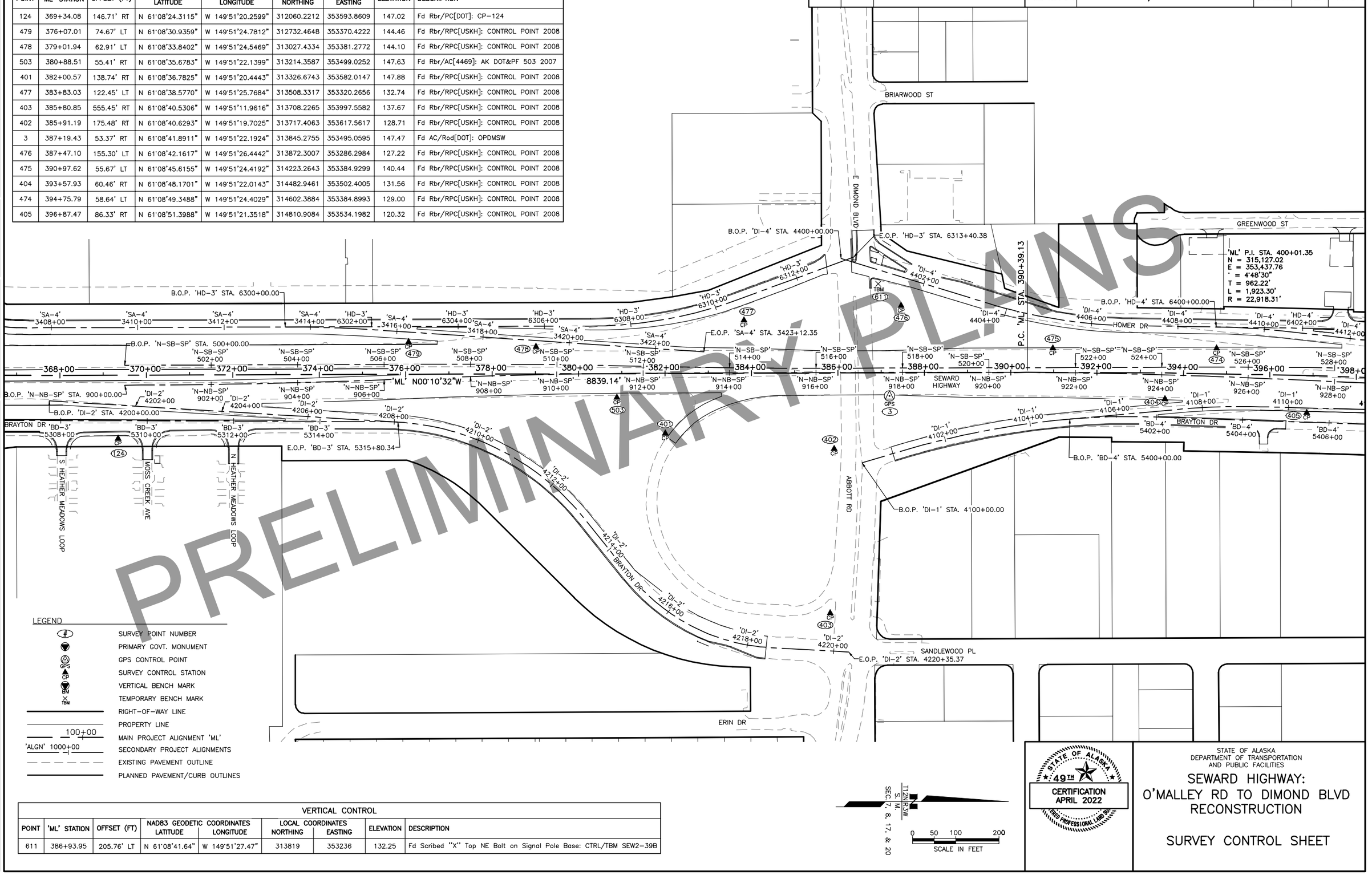
SURVEY MONUMENTS

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
124	369+34.08	146.71' RT	N 61°08'24.3115"	W 149°51'20.2599"	312060.2212	353593.8609	147.02	Fd Rbr/PC[DOT]: CP-124
479	376+07.01	74.67' LT	N 61°08'30.9359"	W 149°51'24.7812"	312732.4648	353370.4222	144.46	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
478	379+01.94	62.91' LT	N 61°08'33.8402"	W 149°51'24.5469"	313027.4334	353381.2772	144.10	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
503	380+88.51	55.41' RT	N 61°08'35.6783"	W 149°51'22.1399"	313214.3587	353499.0252	147.63	Fd Rbr/AC[4469]: AK DOT&PF 503 2007
401	382+00.57	138.74' RT	N 61°08'36.7825"	W 149°51'20.4443"	313326.6743	353582.0147	147.88	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
477	383+83.03	122.45' LT	N 61°08'38.5770"	W 149°51'25.7684"	313508.3317	353320.2656	132.74	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
403	385+80.85	555.45' RT	N 61°08'40.5306"	W 149°51'11.9616"	313708.2265	353997.5582	137.67	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
402	385+91.19	175.48' RT	N 61°08'40.6293"	W 149°51'19.7025"	313717.4063	353617.5617	128.71	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
3	387+19.43	53.37' RT	N 61°08'41.8911"	W 149°51'22.1924"	313845.2755	353495.0595	147.47	Fd AC/Rod[DOT]: OPDMSW
476	387+47.10	155.30' LT	N 61°08'42.1617"	W 149°51'26.4442"	313872.3007	353286.2984	127.22	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
475	390+97.62	55.67' LT	N 61°08'45.6155"	W 149°51'24.4192"	314223.2643	353384.9299	140.44	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
404	393+57.93	60.46' RT	N 61°08'48.1701"	W 149°51'22.0143"	314482.9461	353502.4005	131.56	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
474	394+75.79	58.64' LT	N 61°08'49.3488"	W 149°51'24.4029"	314602.3884	353384.8993	129.00	Fd Rbr/RPC[USKH]: CONTROL POINT 2008
405	396+87.47	86.33' RT	N 61°08'51.3988"	W 149°51'21.3518"	314810.9084	353534.1982	120.32	Fd Rbr/RPC[USKH]: CONTROL POINT 2008



LEGEND

- (#) SURVEY POINT NUMBER
- PRIMARY GOVT. MONUMENT
- GPS CONTROL POINT
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- VERTICAL BENCH MARK
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- 'ALGN' 1000+00 SECONDARY PROJECT ALIGNMENTS
- EXISTING PAVEMENT OUTLINE
- PLANNED PAVEMENT/CURB OUTLINES

VERTICAL CONTROL

POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
611	386+93.95	205.76' LT	N 61°08'41.64"	W 149°51'27.47"	313819	353236	132.25	Fd Scribed "X" Top NE Bolt on Signal Pole Base: CTRL/TBM SEW2-398

T12N R3W S. M. SEC. 7, 8, 17, & 20

0 50 100 200
SCALE IN FEET

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SURVEY CONTROL SHEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	A13	A13

DRAFTED | CHECKED | DESIGNED | LAYOUT A13 | 4/8/2022 9:46 AM | DATE/TIME

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LEGEND

- SURVEY POINT NUMBER
- PRIMARY GOVT. MONUMENT
- GPS CONTROL POINT
- SURVEY CONTROL STATION
- VERTICAL BENCH MARK
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- EXISTING PAVEMENT OUTLINE
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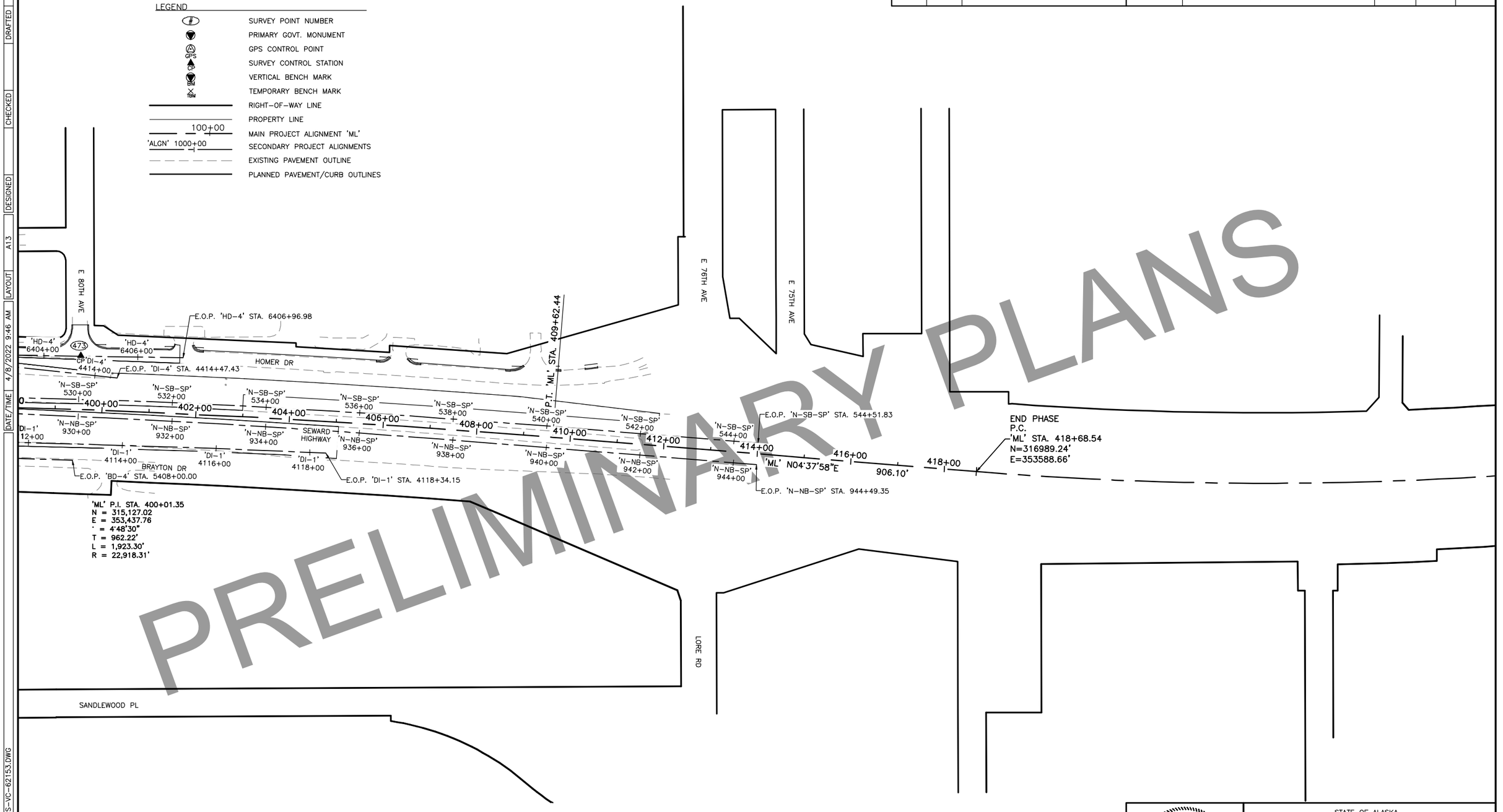

PRELIMINARY PLANS

SURVEY MONUMENTS								
POINT	'ML' STATION	OFFSET (FT)	NAD83 GEODETIC COORDINATES LATITUDE	LONGITUDE	LOCAL COORDINATES NORTHING	EASTING	ELEVATION	DESCRIPTION
473	399+50.37	114.40' LT	N 61°08'54.0533"	W 149°51'25.2616"	315080.0595	353341.7058	116.82	Fd Rbr/RPC[USKH]: CONTROL POINT 2008

T12NR3W S.M.
SEC. 7, 8, 17, & 20

0 50 100 200
SCALE IN FEET

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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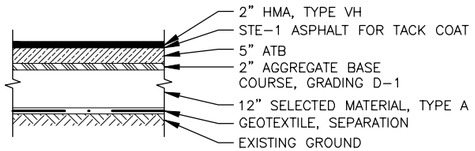
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

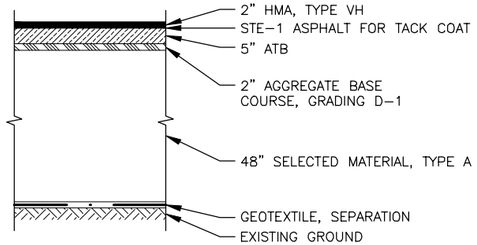
SURVEY CONTROL SHEET

NO.	DATE	REVISION

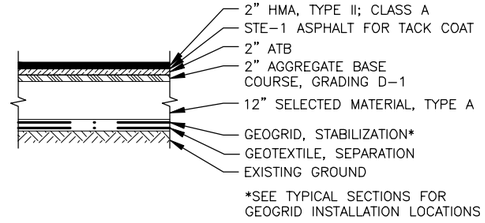
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B1	B12



PAVEMENT STRUCTURAL SECTION NO. 1



PAVEMENT STRUCTURAL SECTION NO. 2



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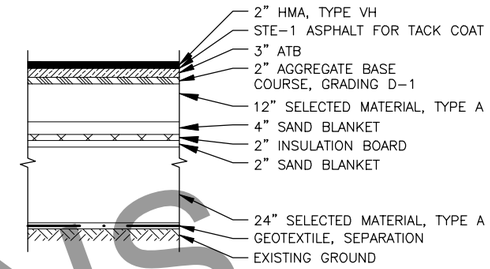
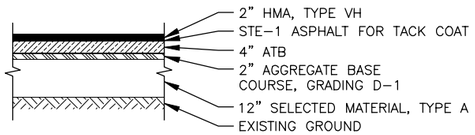


PAVEMENT STRUCTURAL SECTION NO. 4



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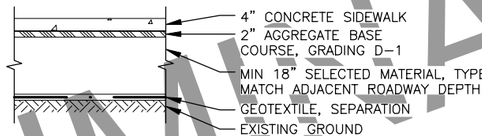
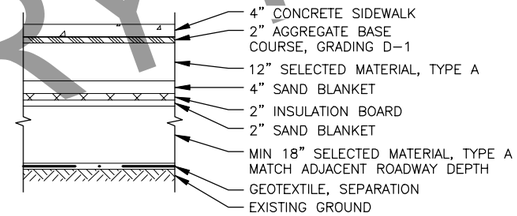


SIDEWALK STRUCTURAL SECTION NO. 1



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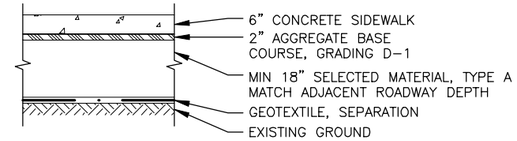

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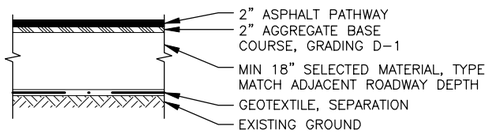
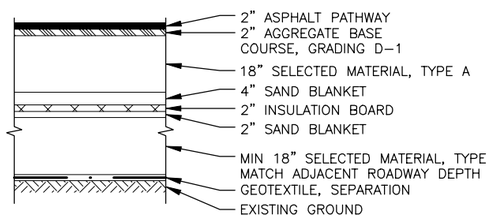


PATHWAY STRUCTURAL SECTION NO. 1



PATHWAY STRUCTURAL SECTION NO. 2

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

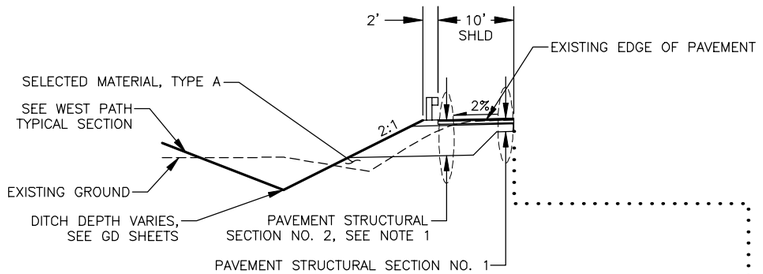
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0875434\00012_B01_TYP.DWG | DATE/TIME | 4/11/2022 10:03 AM | LAYOUT | B1 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

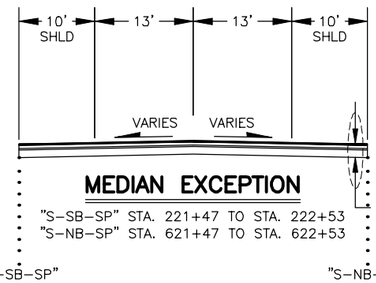
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B2	B12



GUARDRAIL WIDENING EXCEPTION

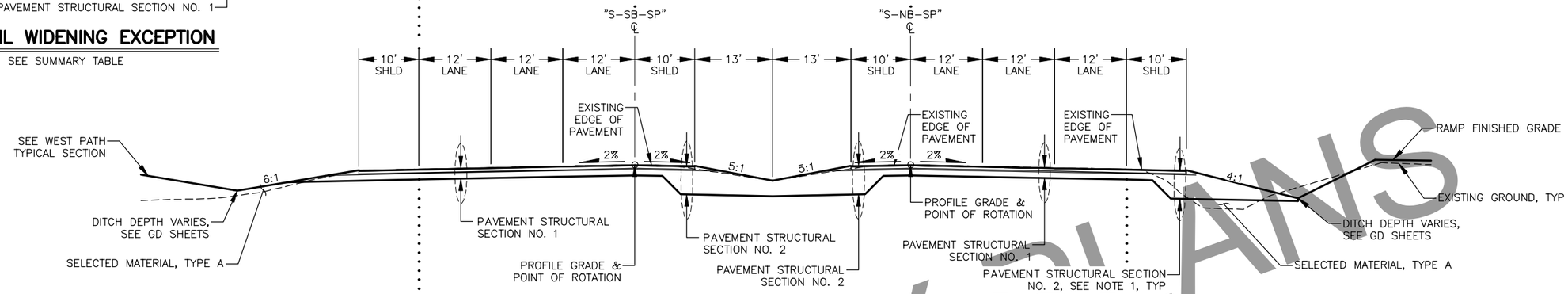
SEE SUMMARY TABLE



MEDIAN EXCEPTION

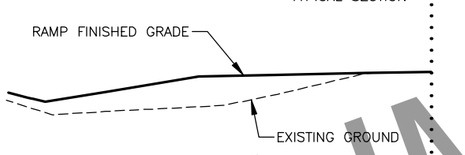
"S-SB-SP" STA. 221+47 TO STA. 222+53
"S-NB-SP" STA. 621+47 TO STA. 622+53

PAVEMENT STRUCTURAL SECTION NO. 1



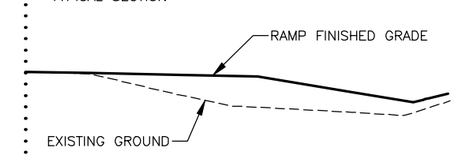
SEWARD HIGHWAY

"S-SB-SP" STA. 213+27 TO STA. 240+50
"S-NB-SP" STA. 616+43 TO STA. 640+50



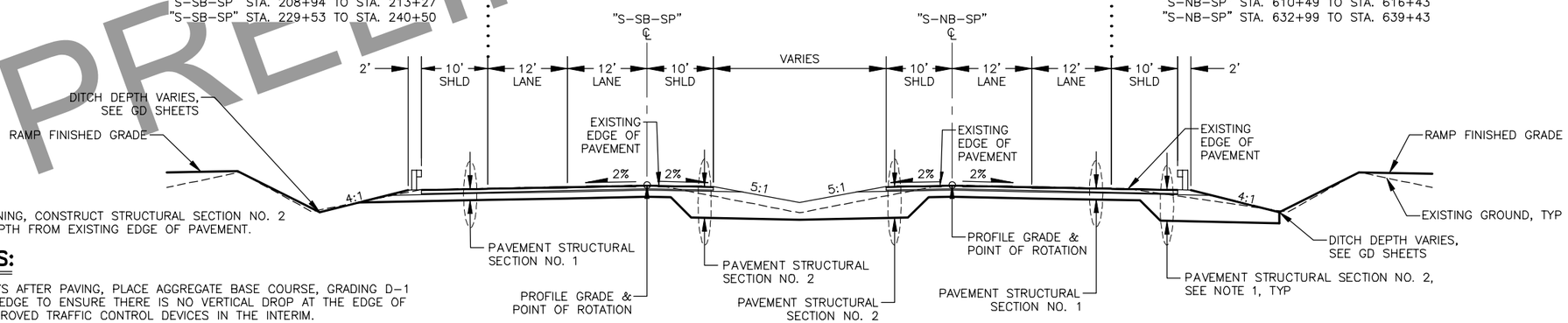
RAMP CONNECTION EXCEPTION

"S-SB-SP" STA. 208+94 TO STA. 213+27
"S-SB-SP" STA. 229+53 TO STA. 240+50



RAMP CONNECTION EXCEPTION

"S-NB-SP" STA. 610+49 TO STA. 616+43
"S-NB-SP" STA. 632+99 TO STA. 639+43



SEWARD HIGHWAY

"S-SB-SP" STA. 200+69 TO STA. 213+27
"S-NB-SP" STA. 600+69 TO STA. 616+43

NOTES:

1. FOR ROADWAY WIDENING, CONSTRUCT STRUCTURAL SECTION NO. 2 AT 1:1 TO FULL DEPTH FROM EXISTING EDGE OF PAVEMENT.

GENERAL NOTES:

1. WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE TO ENSURE THERE IS NO VERTICAL DROP AT THE EDGE OF PAVEMENT. USE APPROVED TRAFFIC CONTROL DEVICES IN THE INTERIM.
2. REFER TO THE M SHEETS FOR NOISE BARRIER LOCATIONS.
3. TRANSITION FROM ONE TO TWO LANES WILL BE DETAILED IN THE PAVEMENT LAYOUT SHEETS (E SHEETS).
4. IN AREAS WHERE DETECTOR LOOPS WILL BE INSTALLED, PLACE A MINIMUM 4" OF AGGREGATE BASE COURSE, GRADING D-1. SEE HA, HB, HC, AND K SHEETS FOR LOCATIONS.
5. LONGITUDINALLY TRANSITION BETWEEN STRUCTURAL SECTIONS AT 4H:1V, UNLESS OTHERWISE NOTED.
6. TRANSITION SHOULDER CROSS SLOPE PRIOR TO BRIDGES OVER A 150-FT LENGTH.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

DATE/TIME 4/11/2022 10:03 AM | LAYOUT B2 | DESIGNED JM | CHECKED MR | DRAFTED RM
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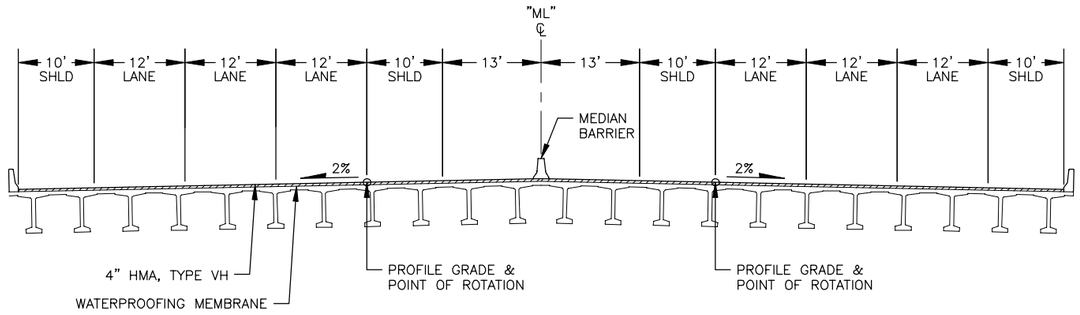
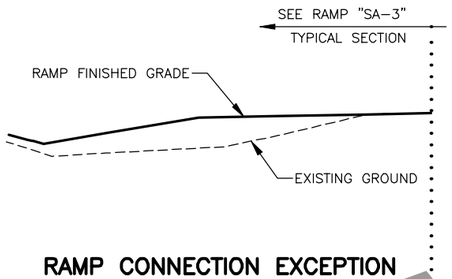
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B3	B12



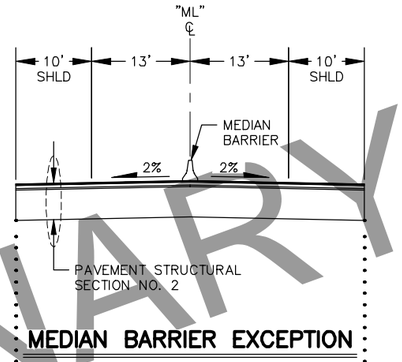
SEWARD HIGHWAY – SCOOTER AVENUE BRIDGE

"ML" STA. 359+54 TO STA. 360+99



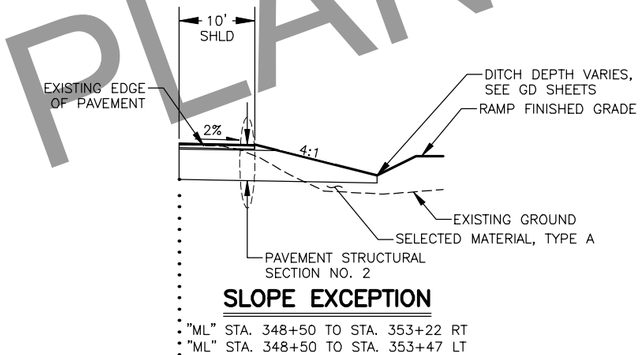
RAMP CONNECTION EXCEPTION

"ML" STA. 348+50 TO STA. 349+27



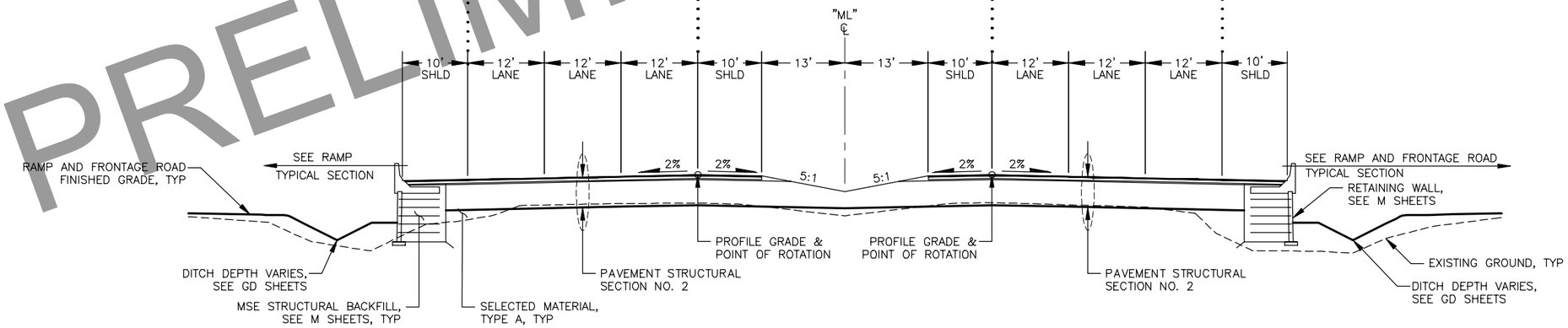
MEDIAN BARRIER EXCEPTION

"ML" STA. 358+75 TO STA. 359+54
"ML" STA. 360+99 TO STA. 361+83



SLOPE EXCEPTION

"ML" STA. 348+50 TO STA. 353+22 RT
"ML" STA. 348+50 TO STA. 353+47 LT



SEWARD HIGHWAY

"ML" STA. 348+50 TO STA. 359+54
"ML" STA. 360+99 TO STA. 369+50

NOTES:

1. BRIDGE SECTION SHOWN FOR REFERENCE ONLY. REFER TO M AND N SHEETS FOR CONSTRUCTION DETAILS.
2. FOR ROADWAY WIDENING, CONSTRUCT STRUCTURAL SECTION NO. 2 AT 1:1 TO FULL DEPTH FROM EXISTING EDGE OF PAVEMENT.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

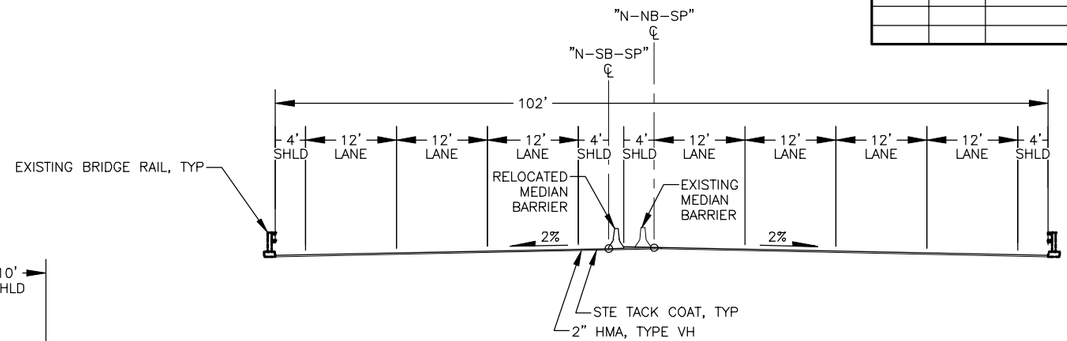
TYPICAL SECTIONS

DATE/TIME 4/11/2022 10:03 AM | LAYOUT B3 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B03_TYP.DWG

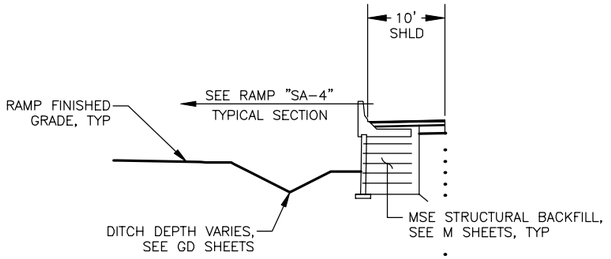
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B4	B12



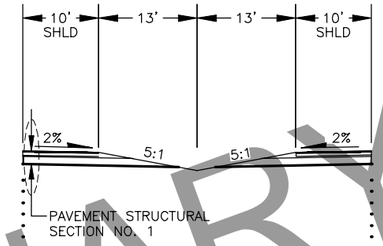
SEWARD HIGHWAY – DIMOND BOULEVARD BRIDGE

"N–SB–SP" STA. 516+44 TO STA. 517+42
"N–NB–SP" STA. 916+44 TO STA. 917+42



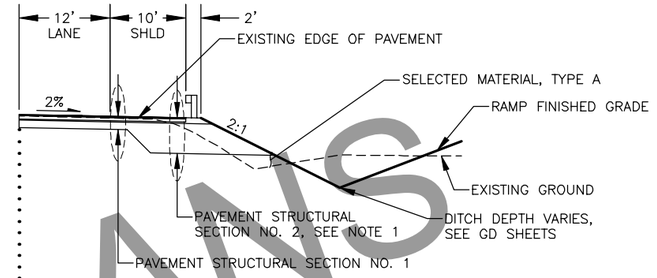
MSE WALL EXCEPTION

"N–SB–SP" STA. 500+00 TO STA. 503+76



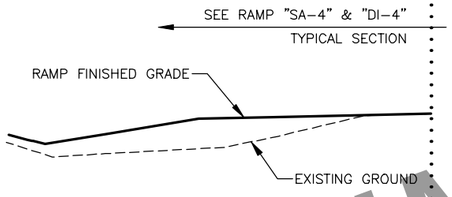
MEDIAN EXCEPTION

"N–SB–SP" STA. 528+69 TO STA. 533+50
"N–NB–SP" STA. 928+69 TO STA. 935+55



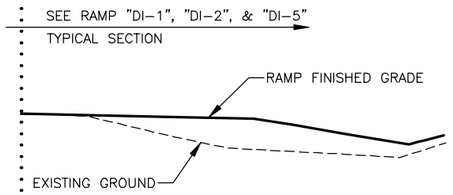
LANE EXCEPTION

"N–NB–SP" STA. 915+16 TO STA. 916+44
"N–NB–SP" STA. 917+42 TO STA. 924+50
"N–NB–SP" STA. 935+32 TO STA. 935+55



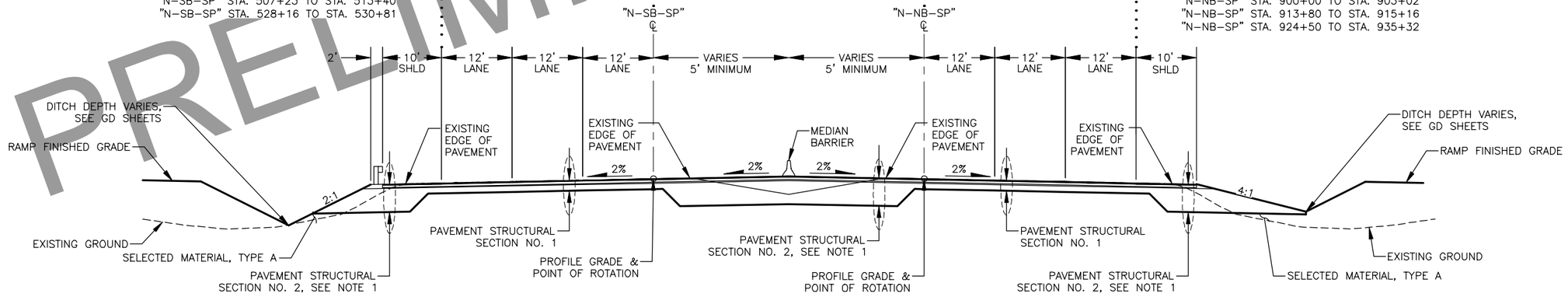
RAMP CONNECTION EXCEPTION

"N–SB–SP" STA. 507+23 TO STA. 513+40
"N–SB–SP" STA. 528+16 TO STA. 530+81



RAMP CONNECTION EXCEPTION

"N–NB–SP" STA. 900+00 TO STA. 903+02
"N–NB–SP" STA. 913+80 TO STA. 915+16
"N–NB–SP" STA. 924+50 TO STA. 935+32



SEWARD HIGHWAY

"N–SB–SP" STA. 500+00 TO STA. 516+44
"N–SB–SP" STA. 517+42 TO STA. 533+50
"N–NB–SP" STA. 900+00 TO STA. 916+44
"N–NB–SP" STA. 917+42 TO STA. 935+55

NOTES:

1. FOR ROADWAY WIDENING, CONSTRUCT STRUCTURAL SECTION NO. 2 AT 1:1 TO FULL DEPTH FROM EXISTING EDGE OF PAVEMENT.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

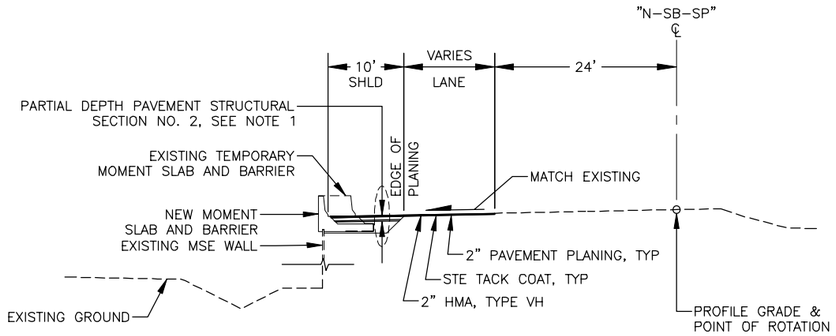
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE C:\PW_WORKDIR\DENOO1\VK0537776\D0875434\00012_B04_TYP.DWG | DATE/TIME 4/11/2022 10:03 AM | LAYOUT B4 | DESIGNED JM | CHECKED MR | DRAFTED RM

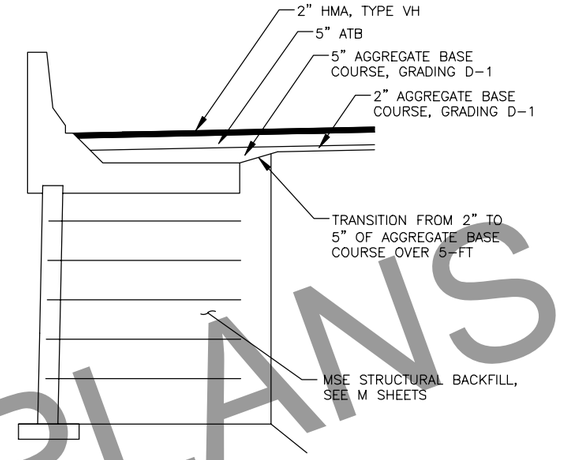
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B5	B12

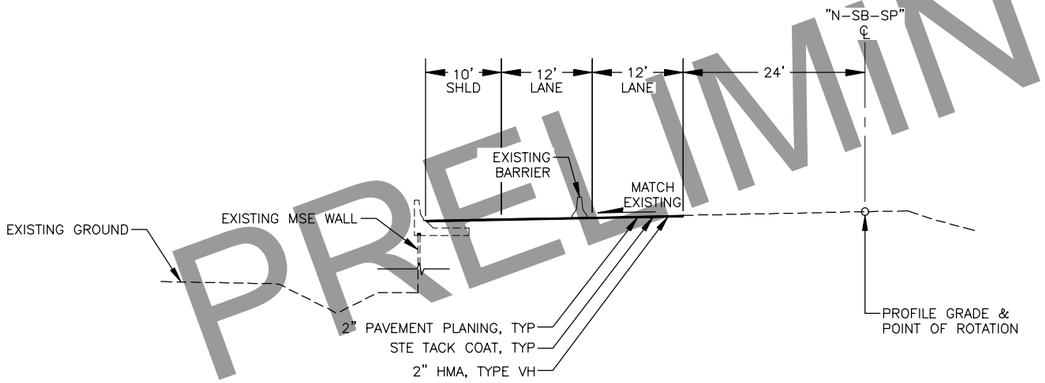


SEWARD HIGHWAY

"N–SB–SP" STA. 541+61 TO STA. 542+37

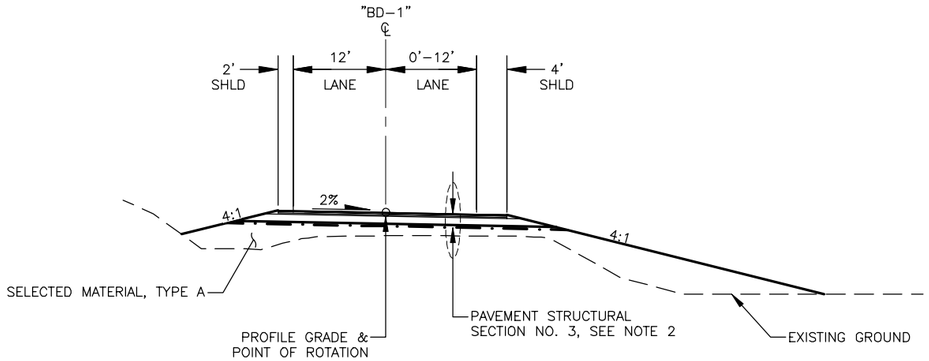


MOMENT SLAB DETAIL



SEWARD HIGHWAY

"N–SB–SP" STA. 533+50 TO STA. 541+61



BRAYTON DRIVE "BD–1"

"BD–1" STA. 5100+85 TO STA. 5106+64

NOTES:

1. REMOVE TEMPORARY MOMENT SLAB AND CONSTRUCT SECTION TO MATCH SUBGRADE 1:1 FROM EDGE OF PLANING.
2. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 48" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

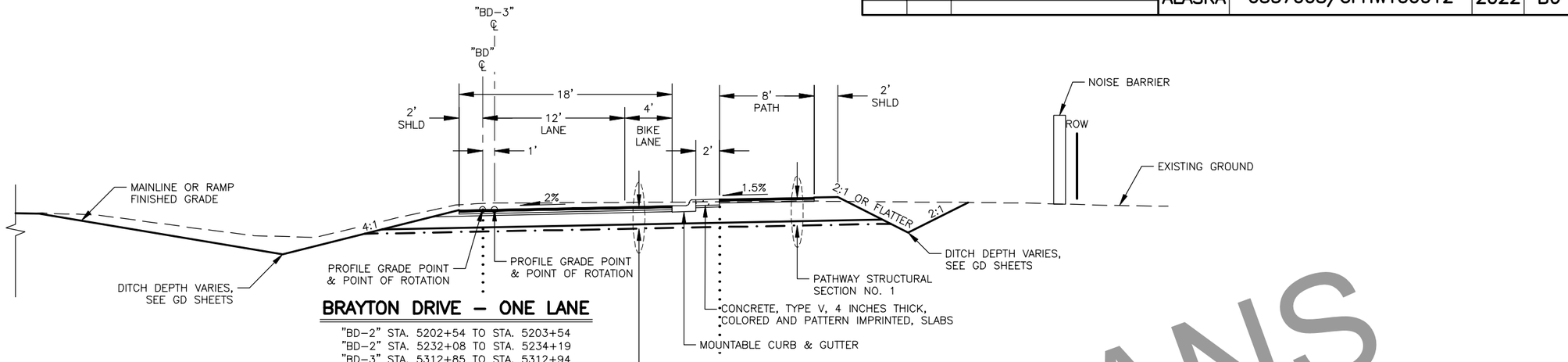
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B05_TYP.DWG | DATE/TIME 4/11/2022 10:03 AM | LAYOUT B5 | DESIGNED JM | CHECKED MR | DRAFTED RM

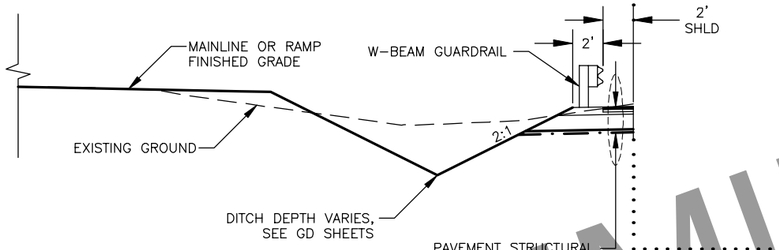
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B6	B12



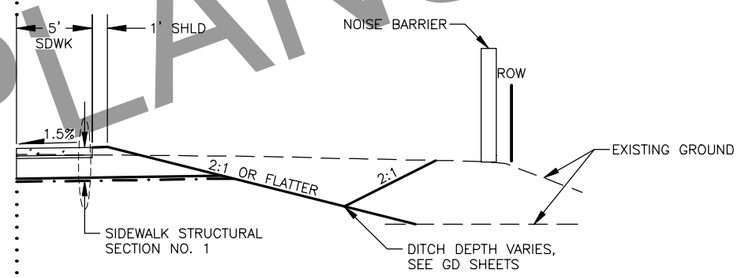
BRAYTON DRIVE – ONE LANE

"BD-2" STA. 5202+54 TO STA. 5203+54
"BD-2" STA. 5232+08 TO STA. 5234+19
"BD-3" STA. 5312+85 TO STA. 5312+94
"BD-4" STA. 5402+04 TO STA. 5407+60



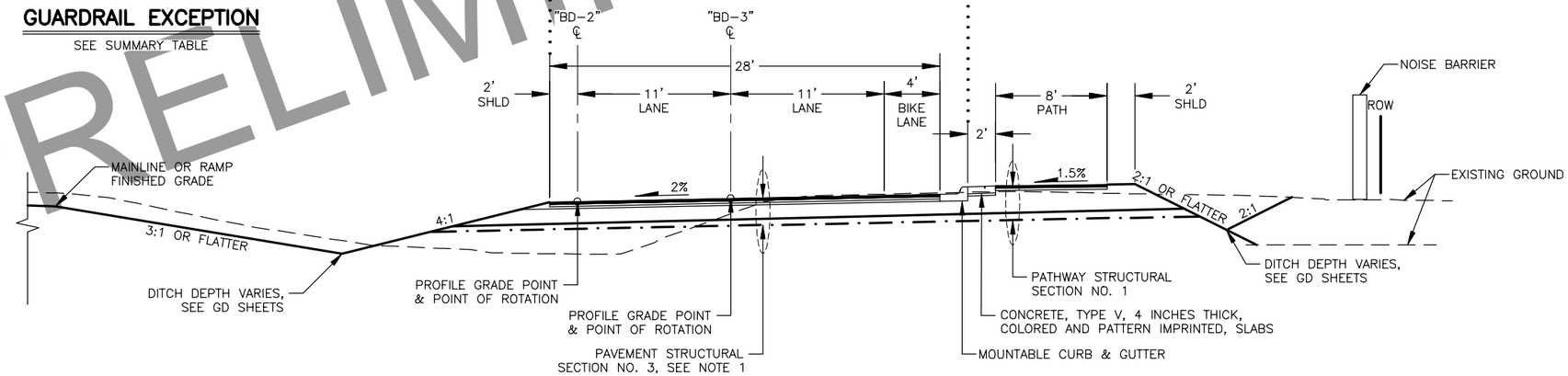
GUARDRAIL EXCEPTION

SEE SUMMARY TABLE



SIDEWALK EXCEPTION

"BD-3" STA. 5306+81 TO STA. 5312+94
"BD-4" STA. 5402+04 TO STA. 5407+60



BRAYTON DRIVE – TWO LANE

"BD-2" STA. 5203+54 TO STA. 5232+08
"BD-3" STA. 5302+50 TO STA. 5312+85

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 48" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.
2. INSTALL GEOGRID OVER GEOTEXTILE ON "BD-2" FROM STA. 5205+00 TO STA. 5213+00.

STATE OF ALASKA – 49TH – CERTIFICATION APRIL 2022 – REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

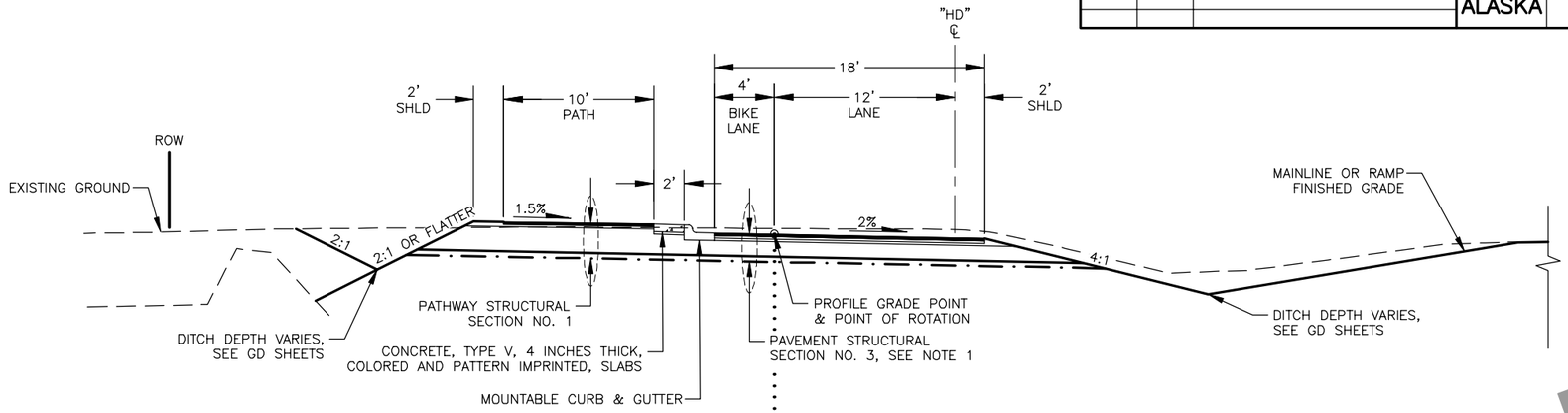
TYPICAL SECTIONS

DATE/TIME 4/11/2022 10:03 AM | LAYOUT B6 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B06_TYP.DWG

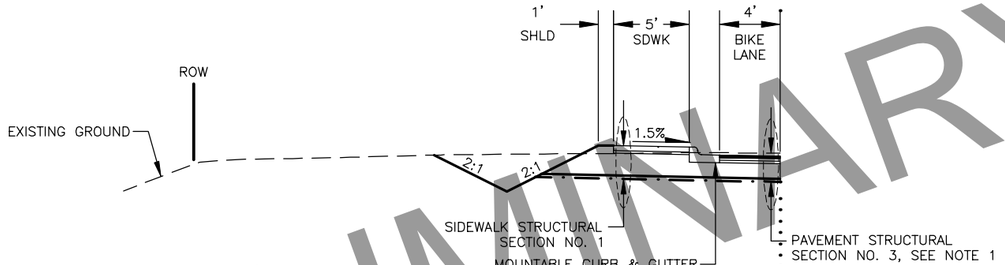
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B7	B12



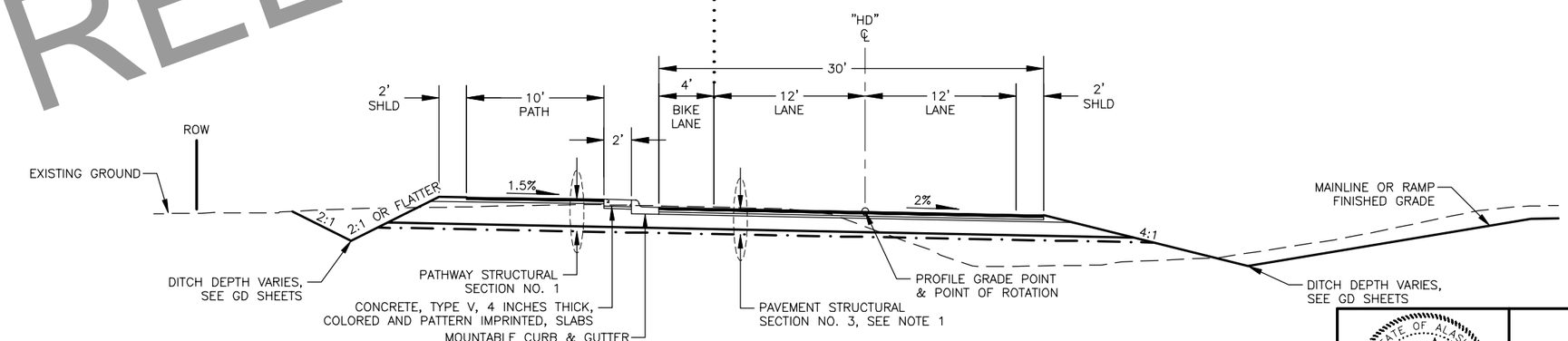
HOMER DRIVE – ONE LANE

"HD–3" STA. 6303+05 TO STA. 6305+20
"HD–4" STA. 6402+25 TO STA. 6402+47



SIDEWALK EXCEPTION

"HD–4" STA. 6402+25 TO STA. 6406+90



HOMER DRIVE – TWO LANE

"HD–3" STA. 6305+20 TO STA. 6312+74
"HD–4" STA. 6402+47 TO STA. 6406+90

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 48" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

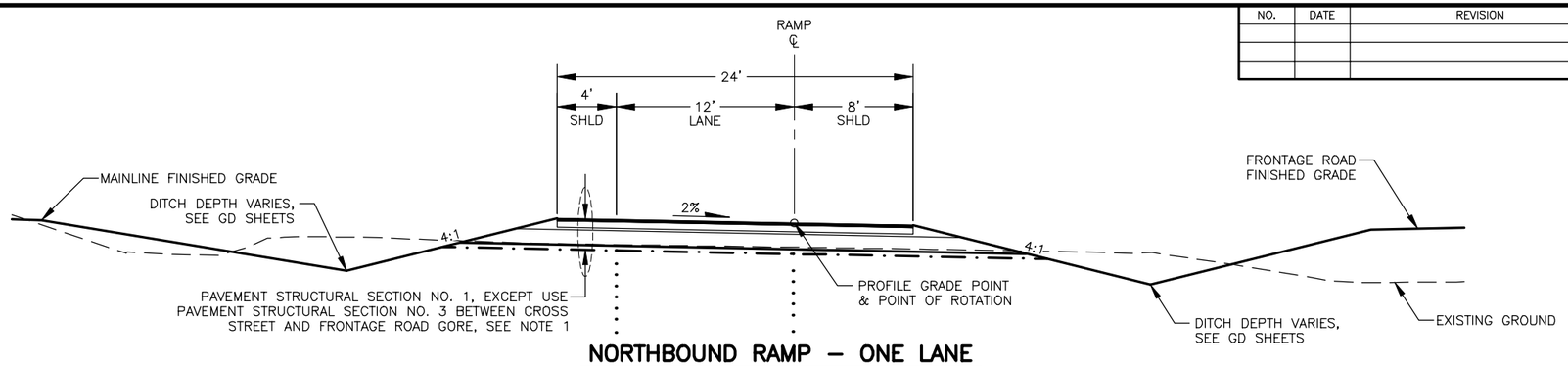
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0875434\000012_B07_TYP.DWG | DATE/TIME 4/11/2022 10:03 AM | LAYOUT B7 | DESIGNED JM | CHECKED MR | DRAFTED RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B8	B12

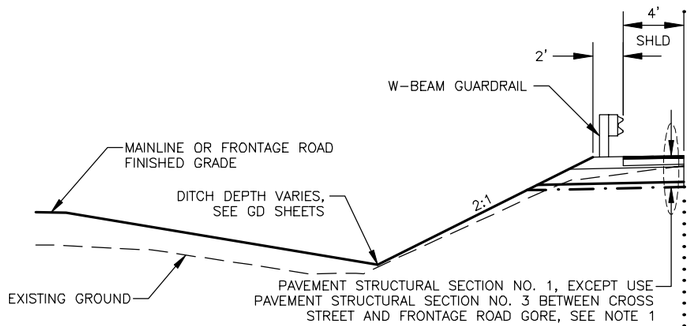
NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 48" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.
2. INSTALL GEOGRID OVER GEOTEXTILE ON "OM–1" FROM STA. 2104+00 TO STA. 2112+00.



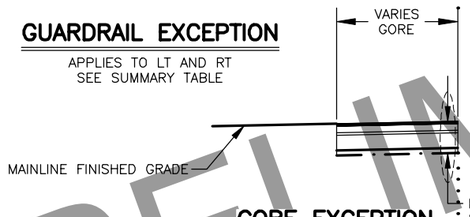
NORTHBOUND RAMP – ONE LANE

"OM–1" STA. 2110+20 TO STA. 2118+31
"OM–2" STA. 2200+10 TO STA. 2201+53
"SA–2" STA. 3200+00 TO STA. 3207+01
"DI–1" STA. 4106+97 TO STA. 4118+34
"DI–2" STA. 4200+00 TO STA. 4205+50
"DI–5" STA. 4500+18 TO STA. 4503+12



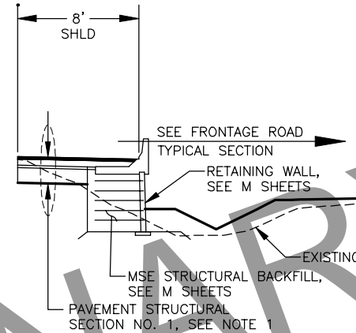
GUARDRAIL EXCEPTION

APPLIES TO LT AND RT
SEE SUMMARY TABLE



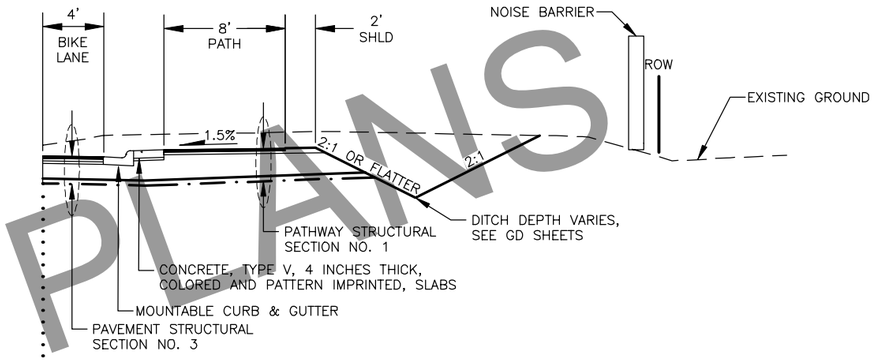
GORE EXCEPTION

"OM–1" STA. 2112+38 TO STA. 2118+31
"SA–2" STA. 3200+00 TO STA. 3206+43
"DI–1" STA. 4107+55 TO STA. 4118+34
"DI–2" STA. 4200+00 TO STA. 4204+92
"DI–5" STA. 4501+76 TO STA. 4503+12



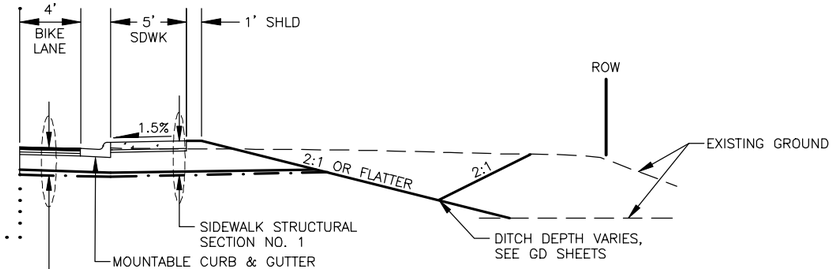
MSE RETAINING WALL EXCEPTION

"DI–2" STA. 4200+00 TO STA. 4203+91



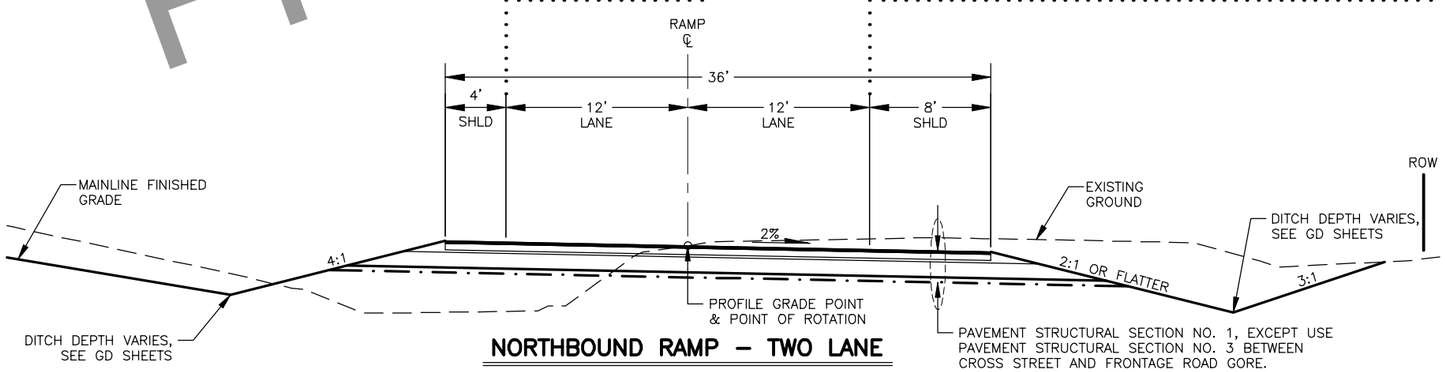
PATHWAY EXCEPTION

"OM–1" STA. 2103+72 TO STA. 2110+20
"SA–2" STA. 3207+01 TO STA. 3217+00



SIDEWALK EXCEPTION

"DI–1" STA. 4100+75 TO STA. 4106+97
"DI–2" STA. 4205+50 TO STA. 4218+44



NORTHBOUND RAMP – TWO LANE

"OM–1" STA. 2103+05 TO STA. 2110+20
"OM–2" STA. 2201+53 TO STA. 2206+64
"SA–2" STA. 3207+01 TO STA. 3217+00
"DI–1" STA. 4100+75 TO STA. 4106+97
"DI–2" STA. 4205+50 TO STA. 4218+44

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

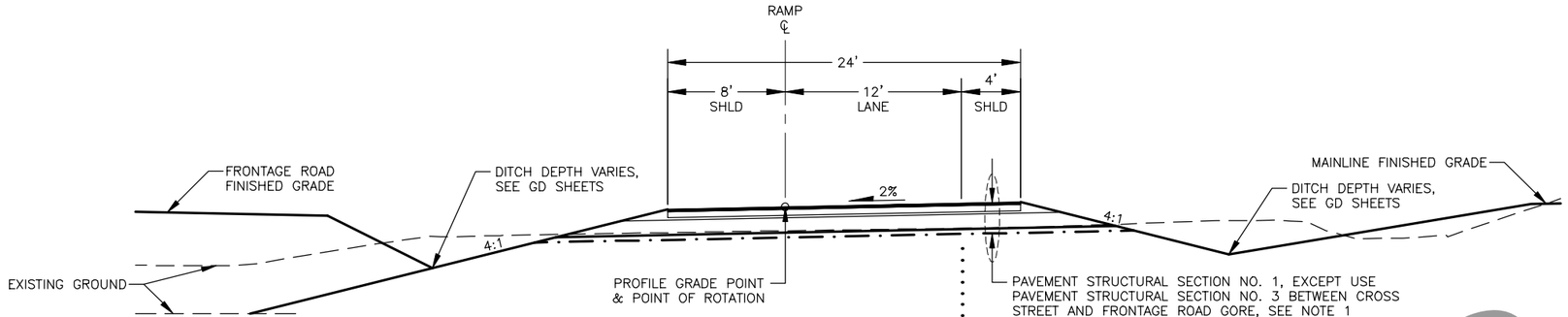
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B08_TYP.DWG
DATE/TIME: 4/11/2022 10:03 AM
LAYOUT: B8
DESIGNED: JM
CHECKED: MR
DRAFTED: RM

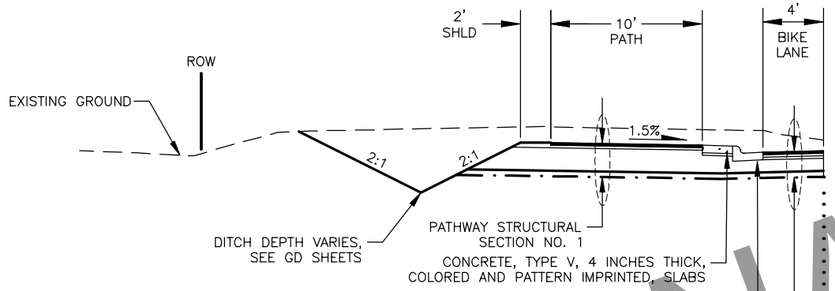
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B9	B12



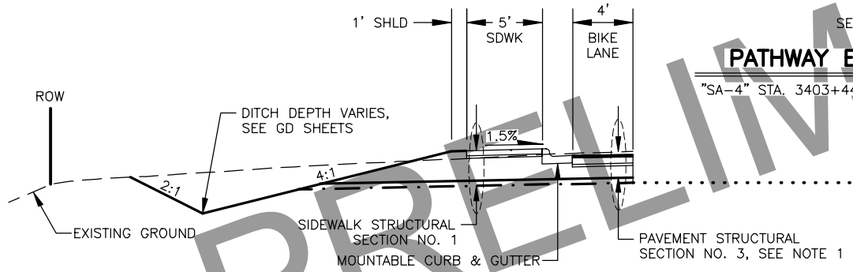
SOUTHBOUND RAMP – ONE LANE

"SA–4" STA. 3416+46 TO STA. 3423+12
"DI–4" STA. 4411+13 TO STA. 4414+47



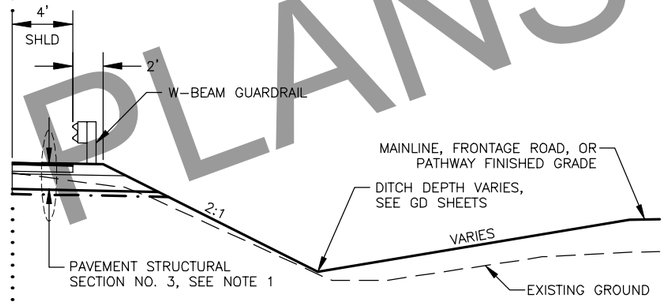
PATHWAY EXCEPTION

"SA–4" STA. 3403+44 TO STA. 3416+46



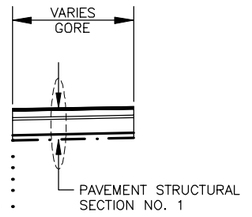
SIDEWALK EXCEPTION

"DI–4" STA. 4401+75 TO STA. 4411+13



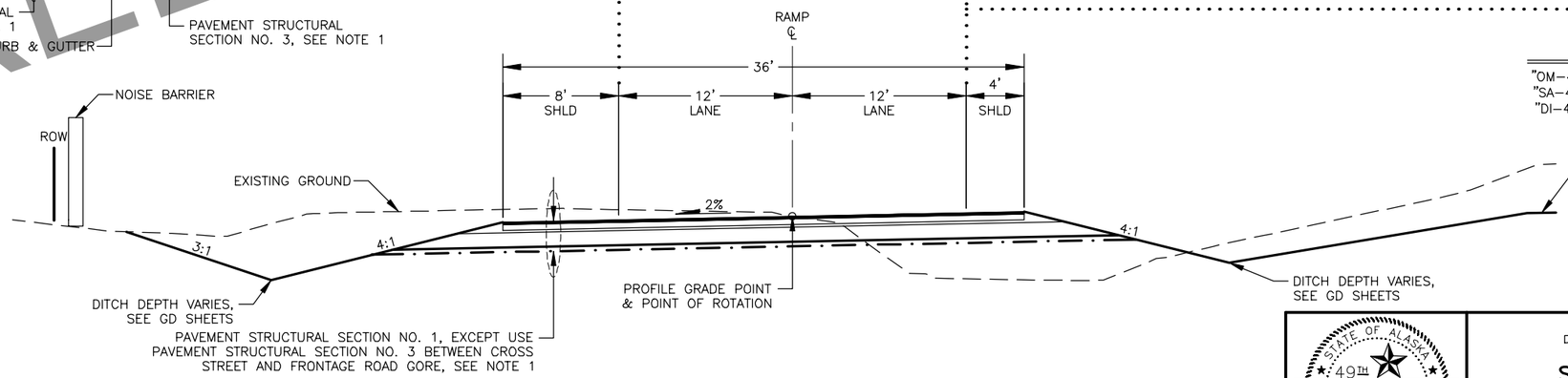
GUARDRAIL EXCEPTION

APPLIES TO LT AND RT
SEE SUMMARY TABLE



GORE EXCEPTION

"OM–4" STA. 2409+71 TO STA. 2414+04
"SA–4" STA. 3416+95 TO STA. 3423+12
"DI–4" STA. 4411+82 TO STA. 4414+47



SOUTHBOUND RAMP – TWO LANE

"OM–3" STA. 2300+28 TO STA. 2306+54
"OM–4" STA. 2402+33 TO STA. 2414+04
"SA–4" STA. 3404+55 TO STA. 3416+46
"DI–4" STA. 4401+75 TO STA. 4411+13

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 48" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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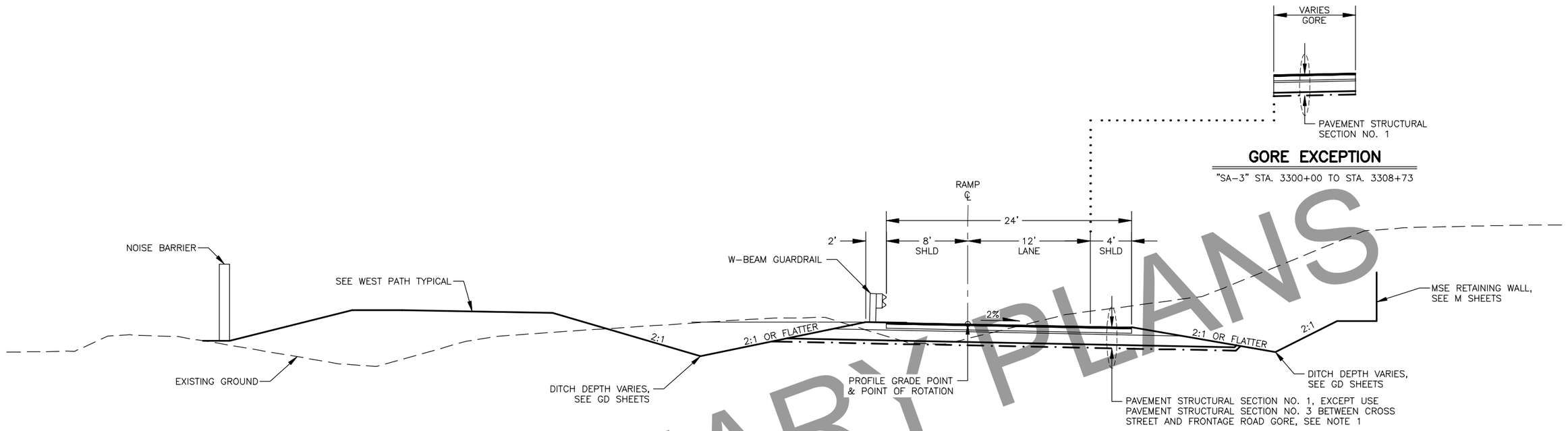
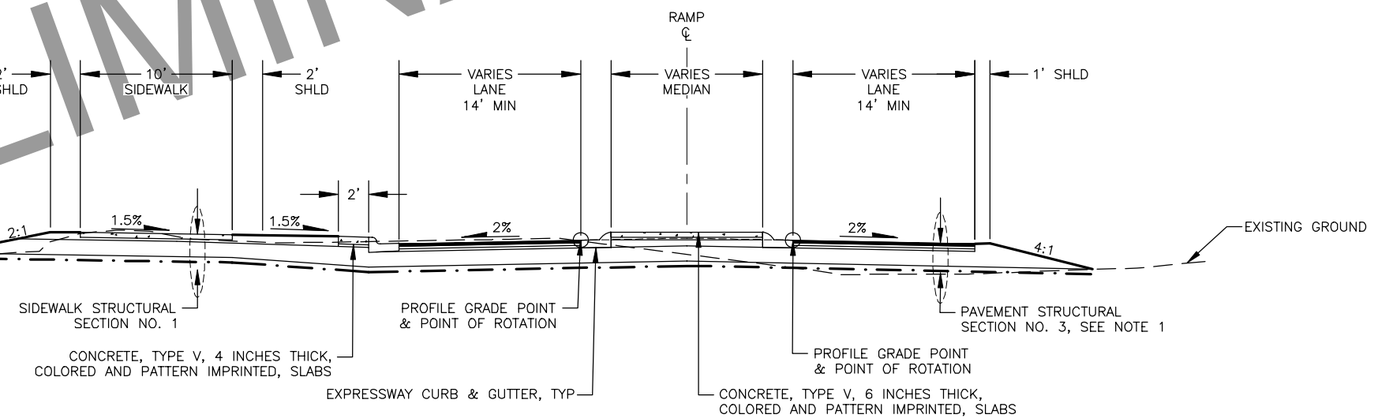


GORE EXCEPTION

"SA-3" STA. 3300+00 TO STA. 3308+73

RAMP "SA-3" - ONE LANE

"SA-3" STA. 3300+00 TO STA. 3316+00



RAMP "SA-4"

"SA-4" STA. 3401+06 TO STA. 3404+55

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 48" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
CERTIFICATION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

DATE/TIME 4/11/2022 10:03 AM | LAYOUT B10 | DESIGNED JM | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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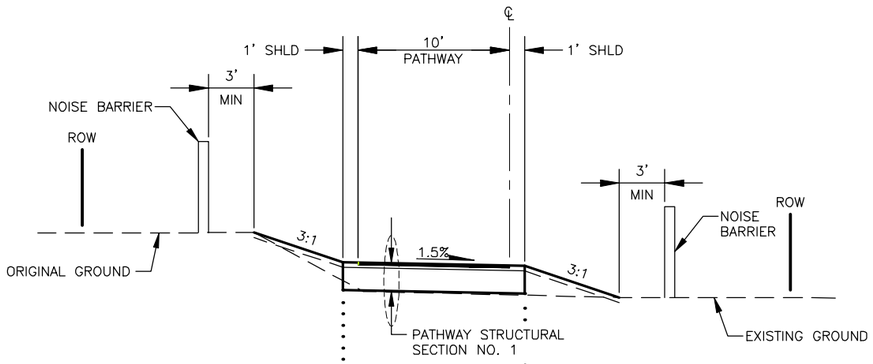
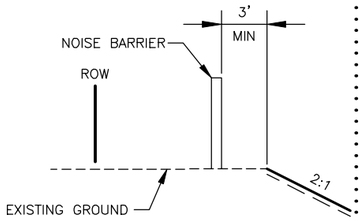


CUT EXCEPTION 1

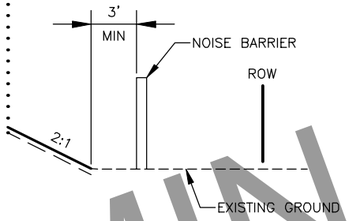
FILL EXCEPTION 1

WEST PATHWAY

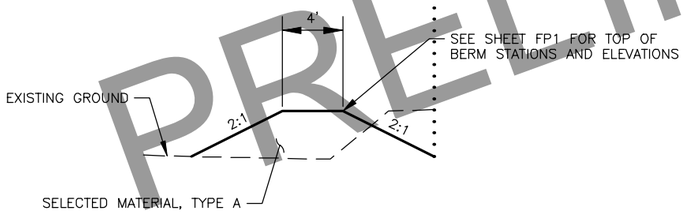
*SEE "M" SHEETS FOR NOISE BARRIERS



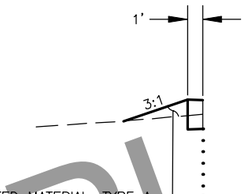
CUT EXCEPTION 2



FILL EXCEPTION 2

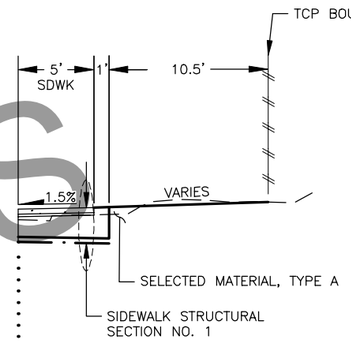


BERM EXCEPTION



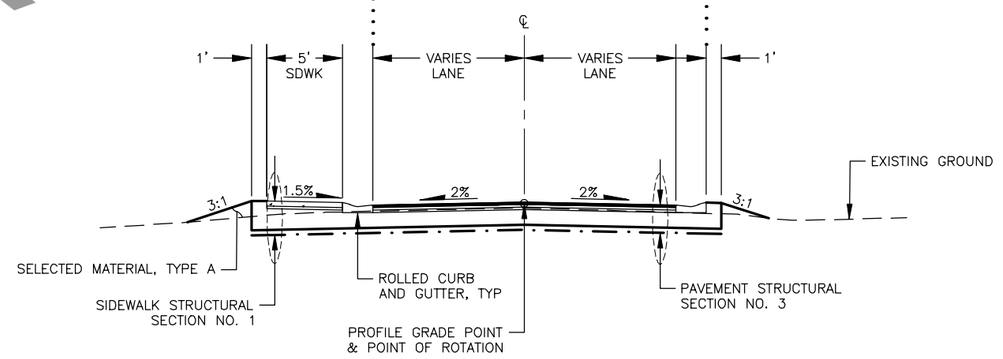
SHOULDER EXCEPTION

APPLIES TO LT AND RT
"9599" STA. 26+68 TO STA. 27+10
"9499" STA. 28+62 TO STA. 28+95



SIDEWALK EXCEPTION

"HM-N" STA. 20+59 TO STA. 20+98



MINOR ROADWAYS

SEE SUMMARY SHEET

CUT/FILL SLOPE EXCEPTION TABLE

FILL			CUT		
STATION RANGE	LT/RT	EXCEPTION	STATION RANGE	LT/RT	EXCEPTION
"WP" STA. 101+35 TO 102+20	LT	BERM	"WP" STA. 132+22 TO 132+32	LT	CUT A
"WP" STA. 148+40 TO 149+60	LT	FILL A			

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

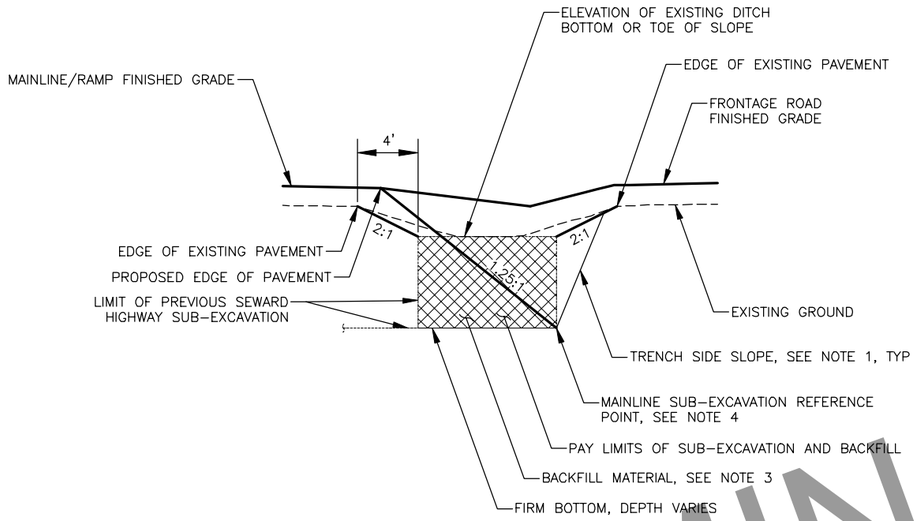
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08754434\00012_B11_TYP.DWG | DATE/TIME | 4/11/2022 10:04 AM | LAYOUT | B11 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B12	B12

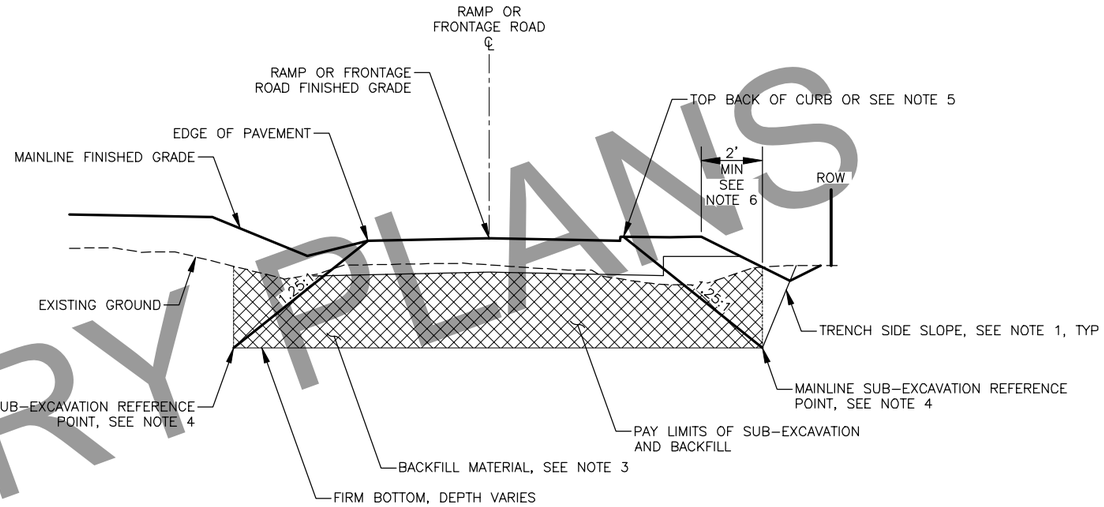


NOTES:

1. SLOPE EXCAVATION AS REQUIRED FOR STABILITY AND SHORE EXCAVATION AS REQUIRED TO CONTAIN GROUND SURFACE DISTURBANCE WITHIN THE ROW, TEMPORARY CONSTRUCTION PERMITS (TCP), TEMPORARY CONSTRUCTION EASMENTS (TCE) AND PERMITTED WETLAND IMPACTS.
2. SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURAL SECTION AND UNCLASSIFIED EXCAVATION LIMITS.
3. BACKFILL SUB-EXCAVATION WITH SELECTED MATERIAL, TYPE A OR USEABLE MAINLINE UNCLASSIFIED EXCAVATION.
4. REFER TO ESTIMATED FIRM BOTTOM SUMMARY TABLES FOR APPROXIMATE STATION, OFFSET, AND ELEVATION OF OUTER LIMIT OF SUB-EXCAVATION.

TYPICAL SUB-EXCAVATION – MAINLINE

N.T.S.



NOTES:

1. SHORE EXCAVATION AS REQUIRED TO CONTAIN GROUND SURFACE DISTURBANCE WITHIN THE ROW, TEMPORARY CONSTRUCTION PERMITS (TCP), TEMPORARY CONSTRUCTION EASMENTS (TCE) AND PERMITTED WETLAND IMPACTS.
2. SEE TYPICAL SECTIONS FOR PAVEMENT STRUCTURAL SECTION AND UNCLASSIFIED EXCAVATION LIMITS.
3. BACKFILL SUB-EXCAVATION WITH SELECTED MATERIAL, TYPE A OR USEABLE MAINLINE UNCLASSIFIED EXCAVATION.
4. REFER TO ESTIMATED FIRM BOTTOM SUMMARY TABLES FOR APPROXIMATE STATION, OFFSET, AND ELEVATION OF OUTER LIMIT OF SUB-EXCAVATION.
5. WHEN THERE IS NO CURB, THE 1.25:1 SLOPE IS PROJECTED FROM THE EDGE OF PAVEMENT.
6. WHERE PROJECTED POINT OF SUB-EXCAVATION OCCURS UNDER SIDEWALK OR PATHWAY, EXTEND SUB-EXCAVATION TO 2 FT BEYOND EDGE OF SIDEWALK OR PATHWAY.

TYPICAL SUB-EXCAVATION – RAMP OR FRONTAGE ROAD

N.T.S.

NOTES:

1. LONGITUDINALLY TRANSITION INTO AND OUT OF FULL DEPTH SUB-EXCAVATION AT 4H:1V, UNLESS OTHERWISE NOTED. THE ESTIMATED FIRM BOTTOM SUMMARY TABLES TAKE INTO ACCOUNT THIS TRANSITION.

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

DATE/TIME	4/11/2022 10:04 AM
LAYOUT	B12
DESIGNED	JM
CHECKED	MR
DRAFTED	RM

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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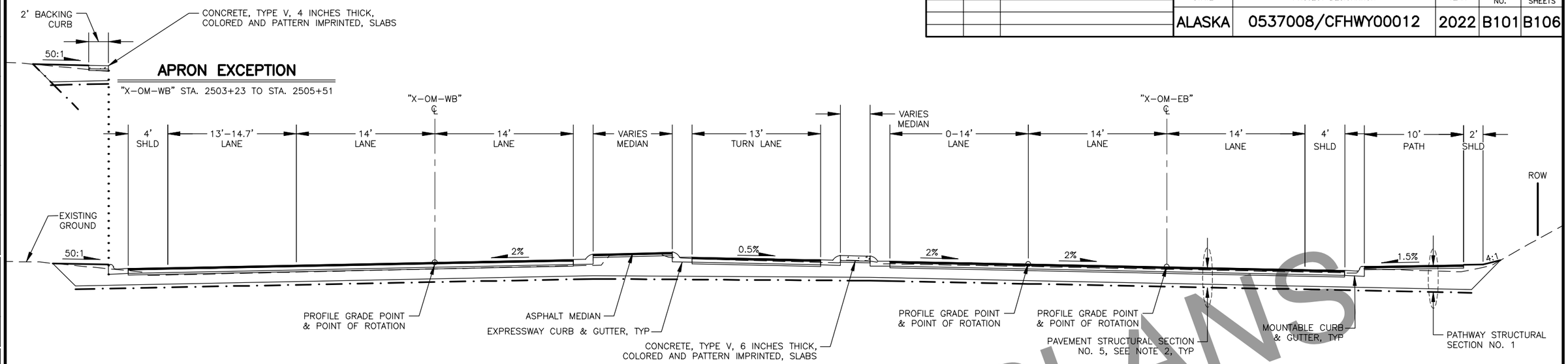
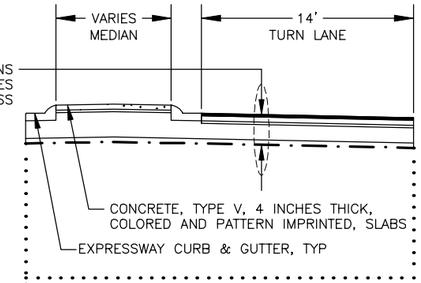


APRON EXCEPTION

"X-OM-WB" STA. 2503+23 TO STA. 2505+51

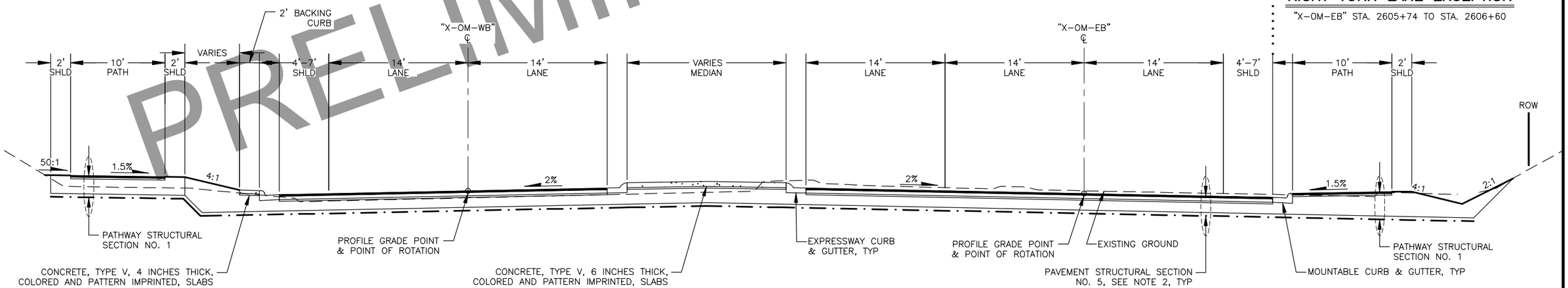
O'MALLEY ROAD – WEST END

"X-OM-WB" STA. 2503+11 TO STA. 2504+51
"X-OM-EB" STA. 2602+15 TO STA. 2604+69



RIGHT TURN LANE EXCEPTION

"X-OM-EB" STA. 2605+74 TO STA. 2606+60



O'MALLEY ROAD – WEST APPROACH

"X-OM-WB" STA. 2505+51 TO STA. 2506+55
"X-OM-EB" STA. 2604+69 TO STA. 2606+60

NOTES:

1. TYPICAL SECTIONS THROUGH DDI CROSSOVER AREAS NOT PROVIDED. SEE G SHEETS FOR CONTOURS.
2. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 36" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

RM | DRAFTED | MR | CHECKED | JM | DESIGNED | B101 | LAYOUT | DATE/TIME 4/11/2022 10:04 AM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B101_TYP.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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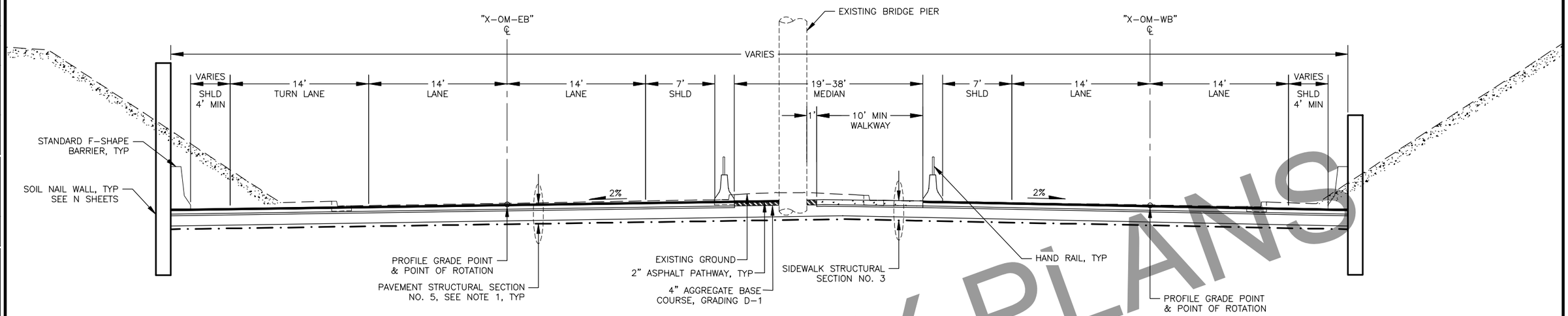
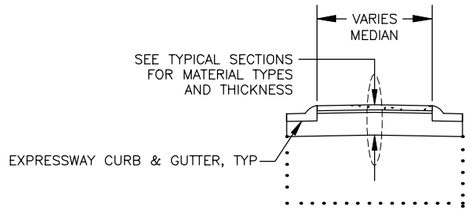


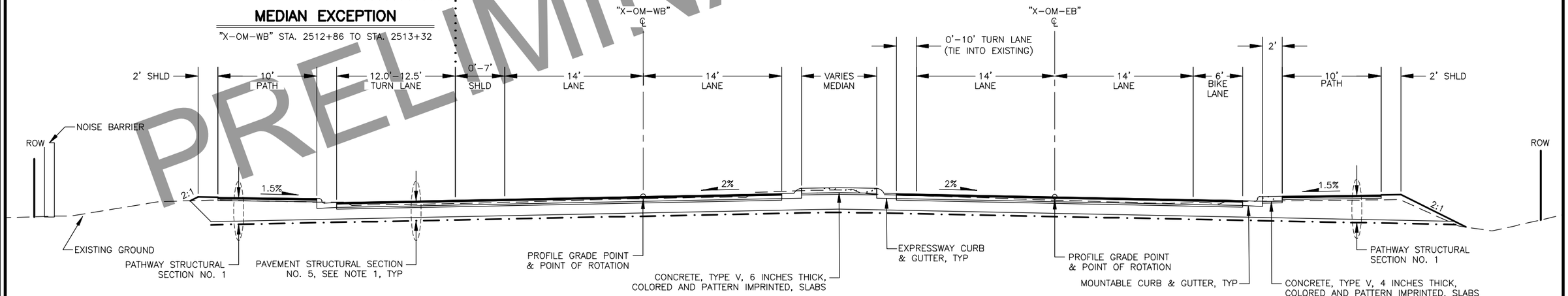
O'MALLEY ROAD – UNDERPASS

"X-OM-WB" STA. 2508+86 TO STA. 2510+60
"X-OM-EB" STA. 2608+87 TO STA. 2610+79



MEDIAN EXCEPTION

"X-OM-WB" STA. 2512+86 TO STA. 2513+32



O'MALLEY ROAD – EAST APPROACH

"X-OM-WB" STA. 2512+86 TO STA. 2515+69
"X-OM-EB" STA. 2612+85 TO STA. 2615+68

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 36" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

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STATE OF ALASKA
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SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/11/2022 10:04 AM	B102	JM	MR	RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B102_TYP.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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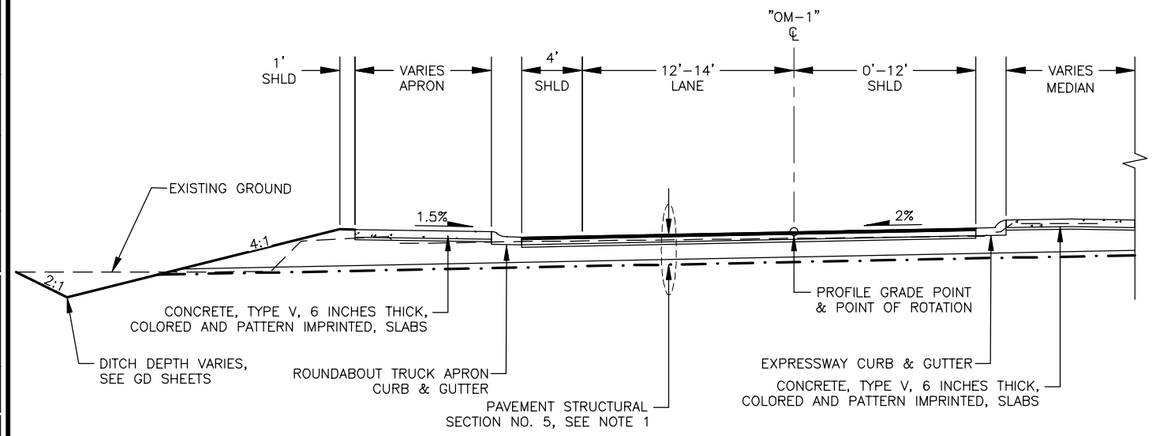
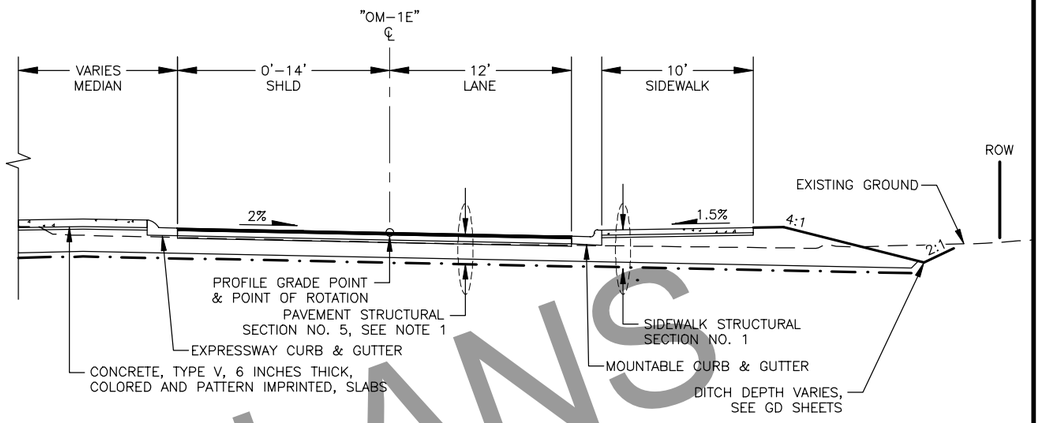


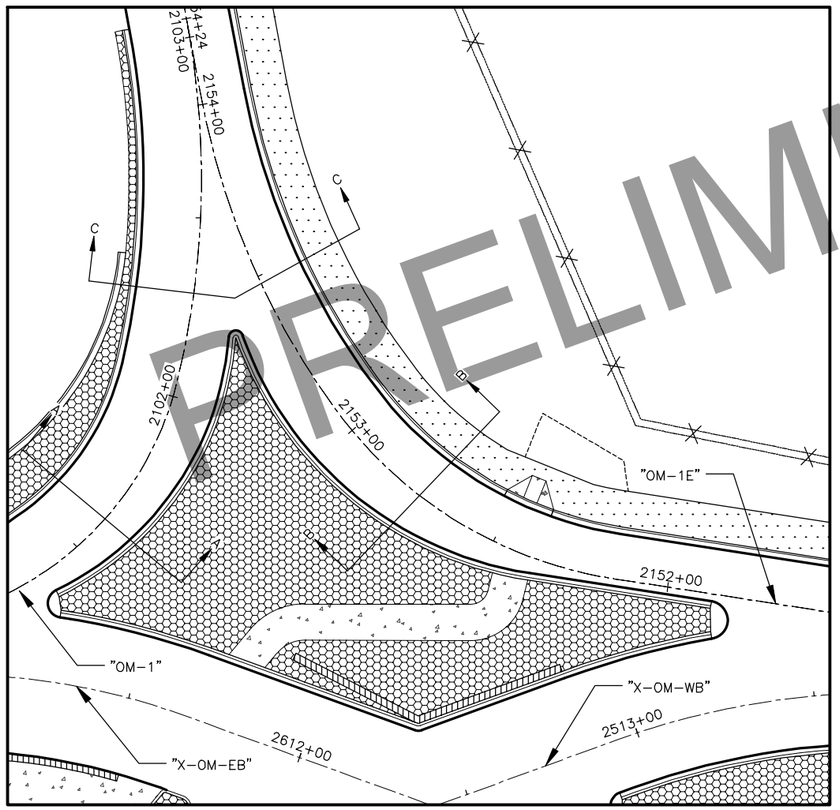
O'MALLEY ROAD "RAMP OM-1" – SECTION A-A

"OM-1" STA. 2101+40 TO STA. 2102+20



O'MALLEY ROAD "RAMP OM-1E" – SECTION B-B

"OM-1E" STA. 2152+45 TO STA. 2153+96



PLAN

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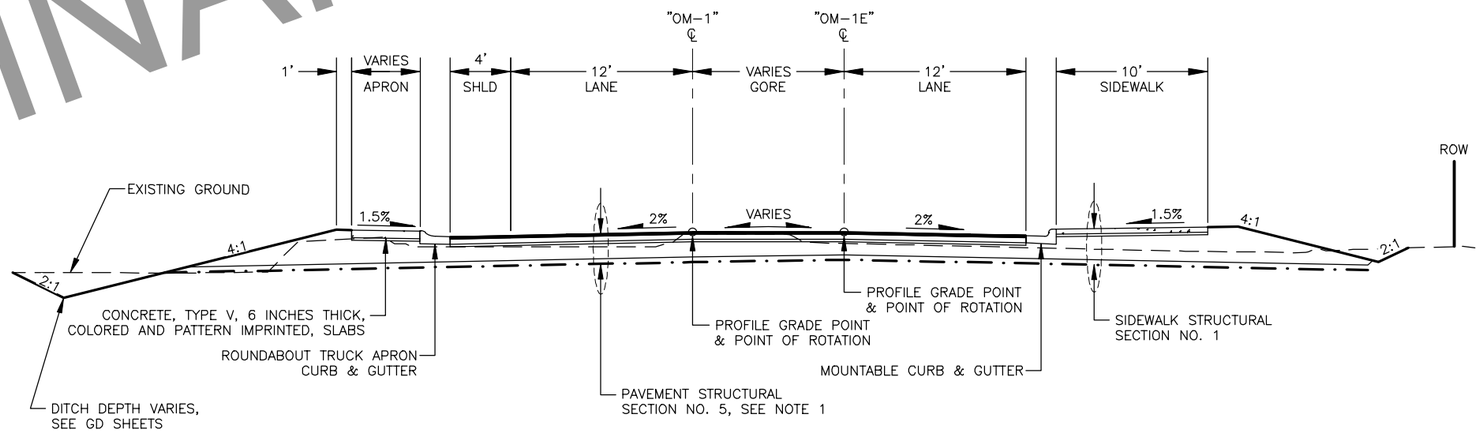

O'MALLEY ROAD "RAMP OM-1" – SECTION C-C

"OM-1" STA. 2102+20 TO STA. 2103+02
"OM-1E" STA. 2153+96 TO STA. 2154+78

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 36" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
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TYPICAL SECTIONS

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/11/2022 10:04 AM	B103	JM	MR	RM

FILE: C:\PW_WORKDIR\DEN001\RK0537761\D0875434\00012_B103_TYP.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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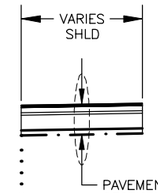
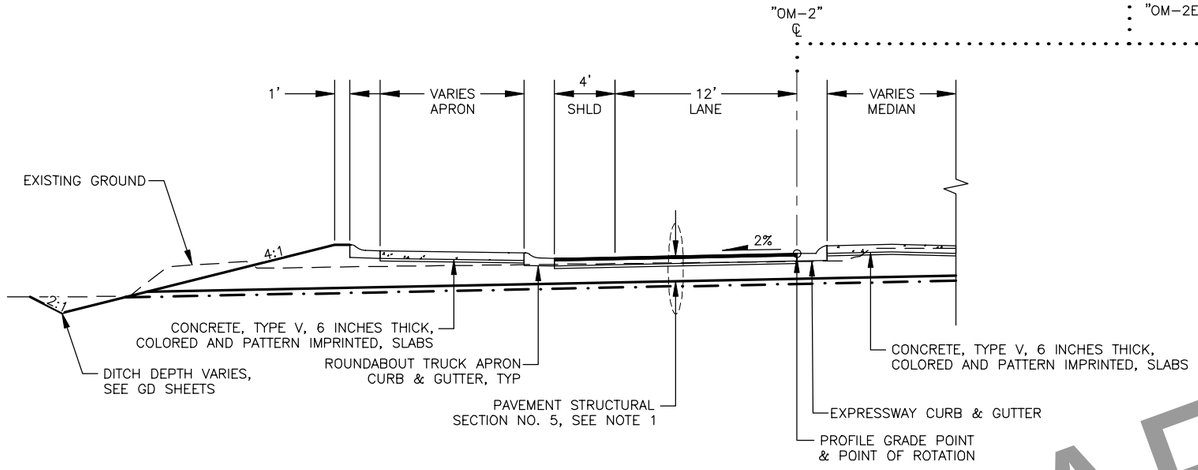


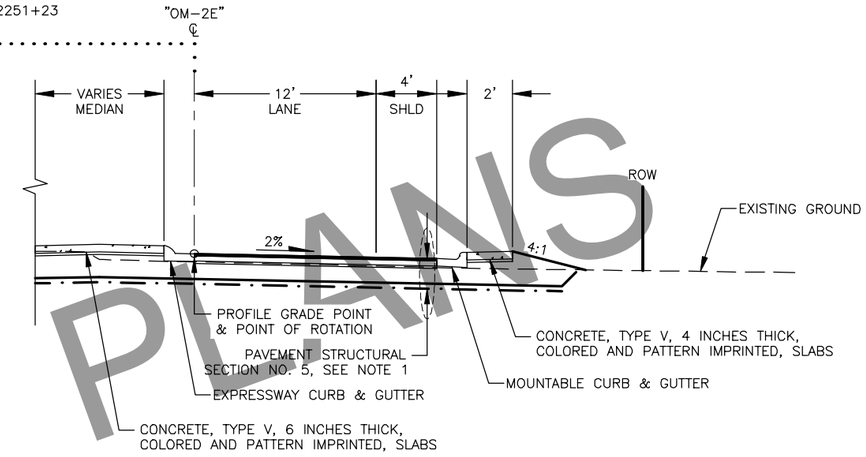
SHOULDER EXCEPTION

"OM–2" STA. 2207+45 TO STA. 2208+14
"OM–2E" STA. 2250+50 TO STA. 2251+23



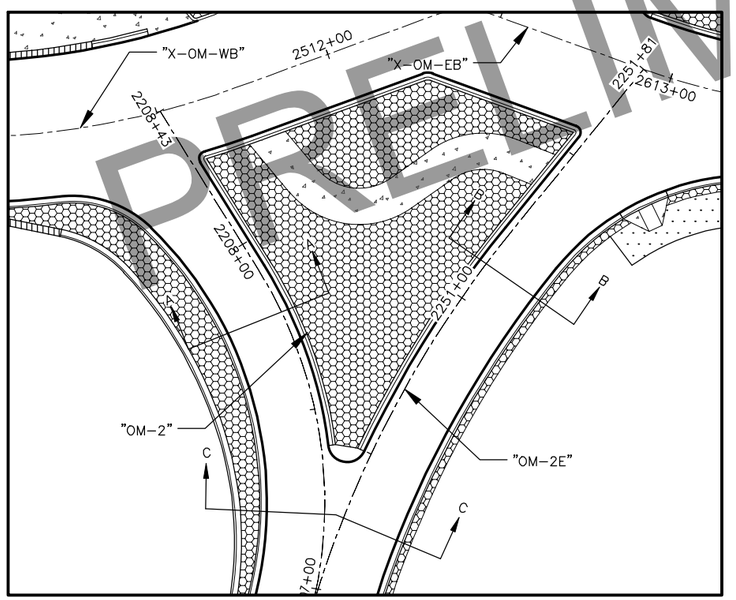
O'MALLEY ROAD "RAMP OM–2" – SECTION A–A

"OM–2" STA. 2207+45 TO STA. 2208+26



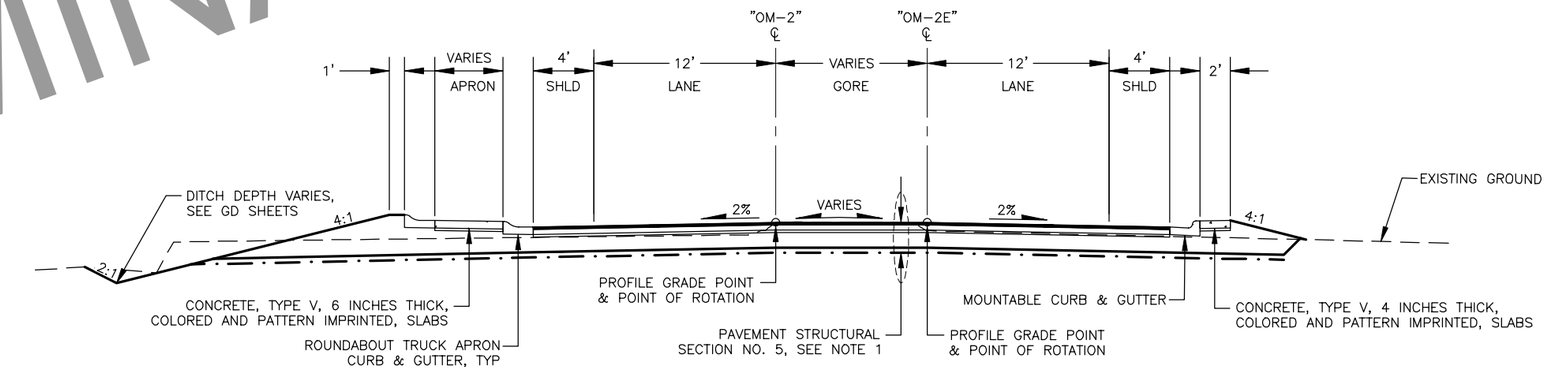
O'MALLEY ROAD "RAMP OM–2E" – SECTION B–B

"OM–2E" STA. 2250+56 TO STA. 2251+56



PLAN

NTS



O'MALLEY ROAD "RAMP OM–2" – SECTION C–C

"OM–2" STA. 2206+90 TO STA. 2207+45
"OM–2E" STA. 2250+00 TO STA. 2250+56

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 36" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

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SEWARD HIGHWAY:
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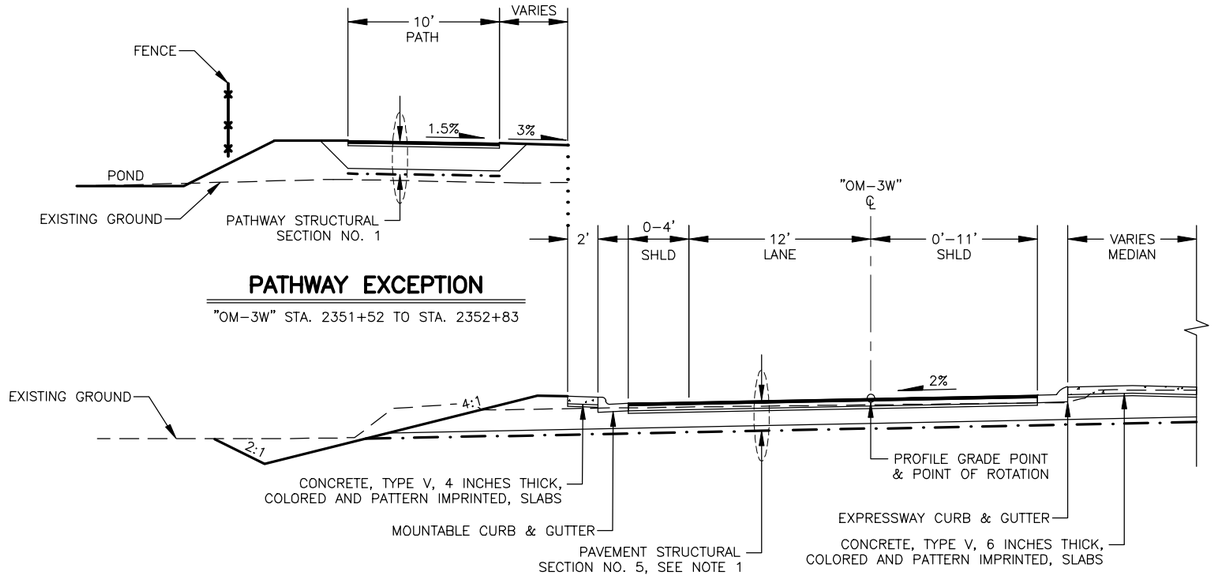
TYPICAL SECTIONS

DATE/TIME 4/11/2022 10:04 AM | LAYOUT B104 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B104_TYP.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B105	B106

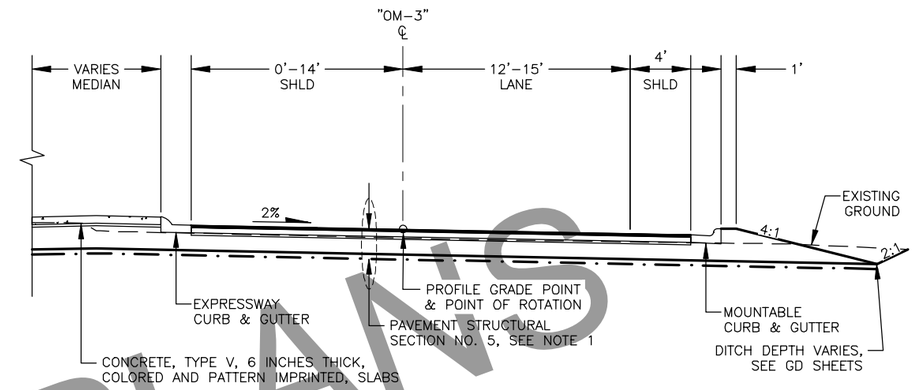


PATHWAY EXCEPTION

"OM-3W" STA. 2351+52 TO STA. 2352+83

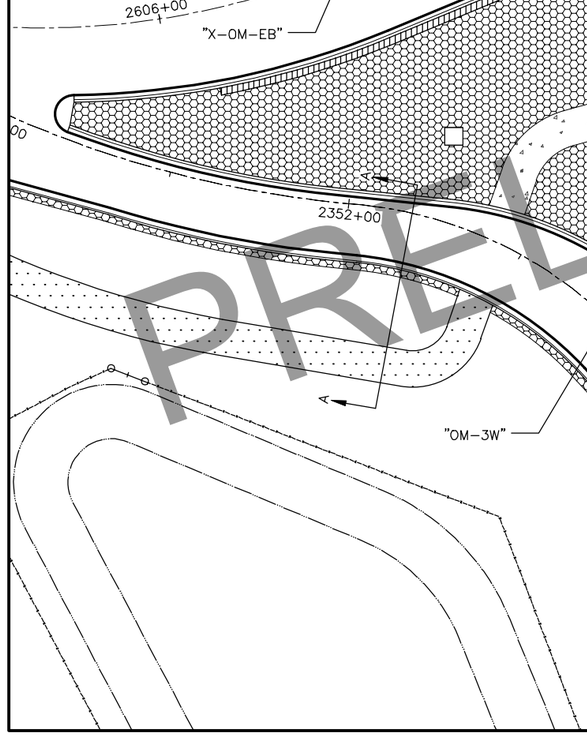
O'MALLEY ROAD "RAMP OM-3W" – SECTION A-A

"OM-3W" STA. 2350+76 TO STA. 2352+83



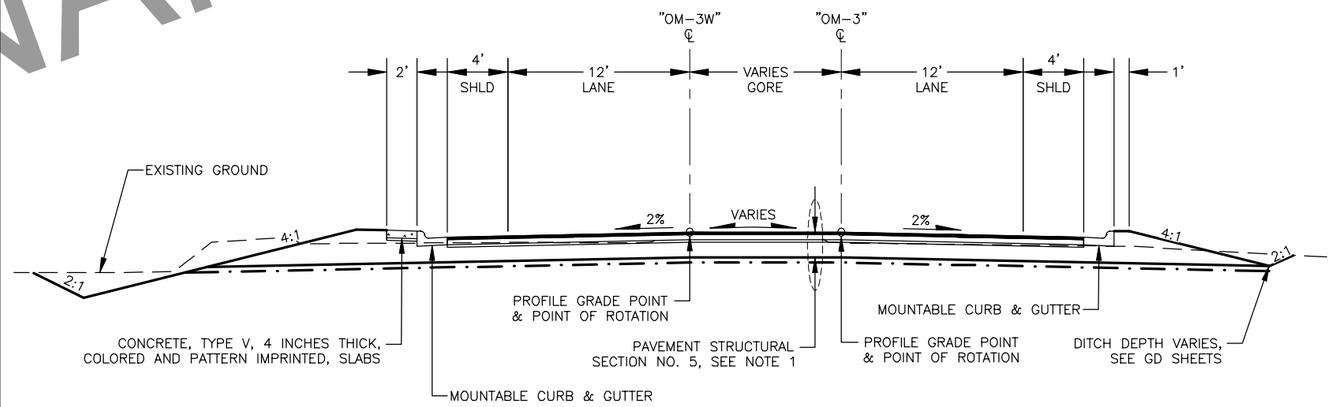
O'MALLEY ROAD "RAMP OM-3" – SECTION B-B

"OM-3" STA. 2307+37 TO STA. 2308+25



PLAN

NTS



O'MALLEY ROAD "RAMP OM-3" – SECTION C-C

"OM-3W" STA. 2350+00 TO STA. 2350+76
"OM-3" STA. 2306+60 TO STA. 2307+37

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 36" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

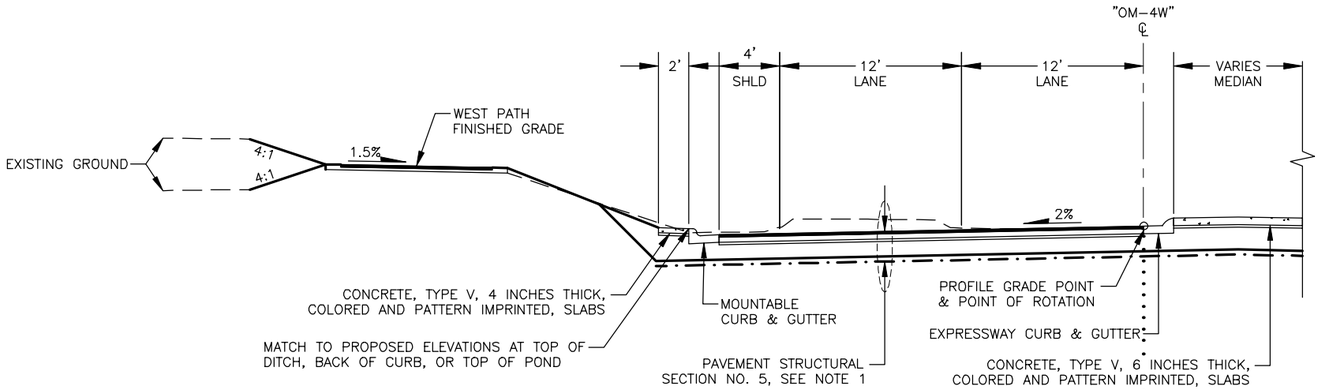
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0875434\00012_B105_TYP.DWG | DATE/TIME | 4/11/2022 10:05 AM | LAYOUT | B105 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

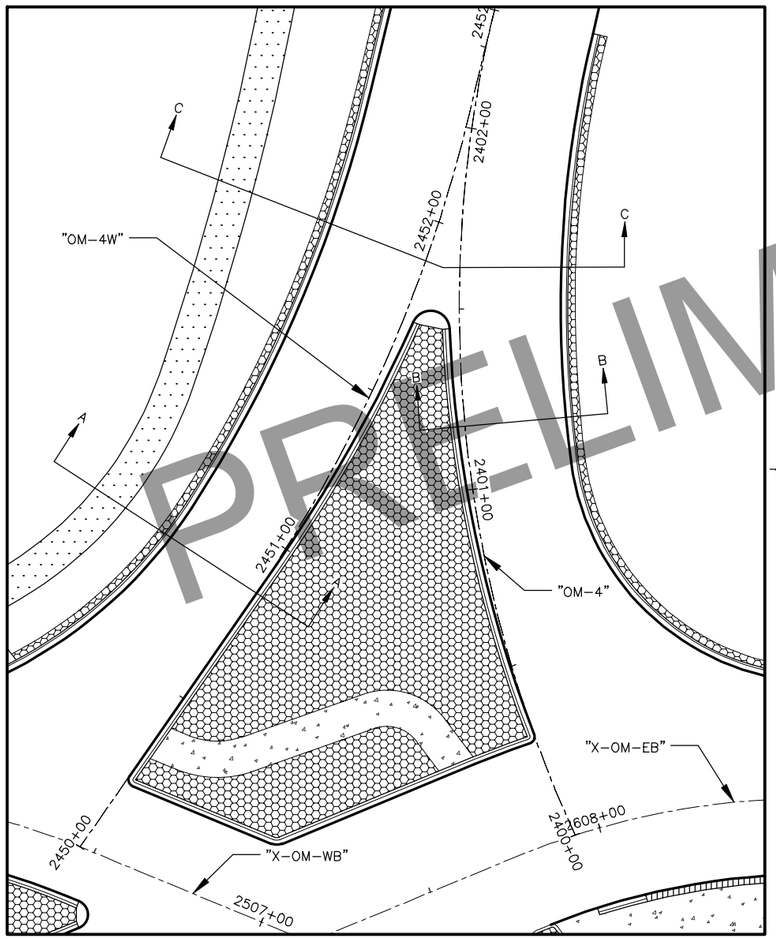
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B106	B106



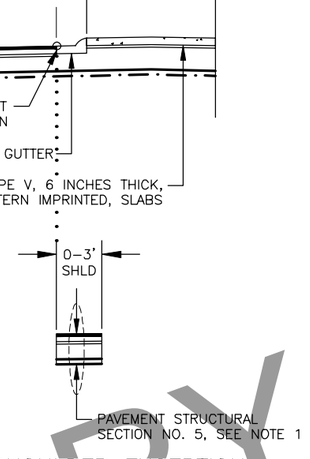
O'MALLEY ROAD "RAMP OM–4W" – SECTION A–A

"OM–4W" STA. 2450+24 TO STA. 2451+77



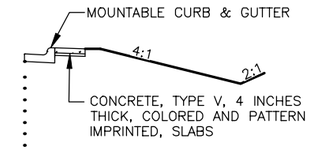
PLAN

NTS



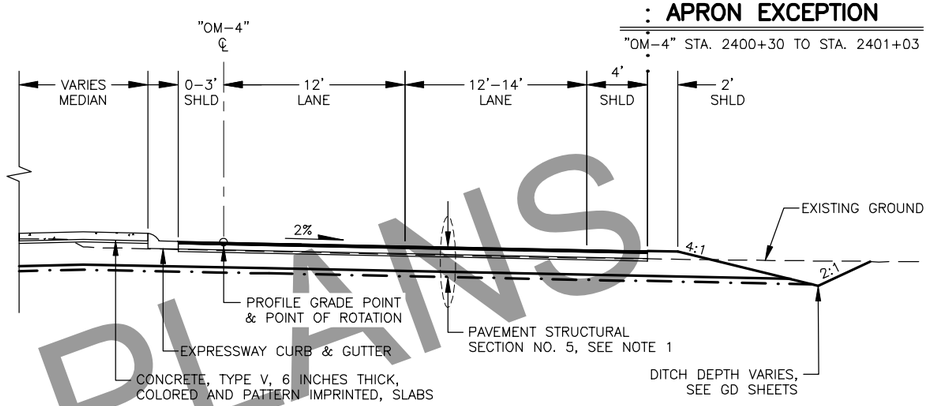
SHOULDER EXCEPTION

"OM–4W" STA. 2450+82 TO STA. 2451+77



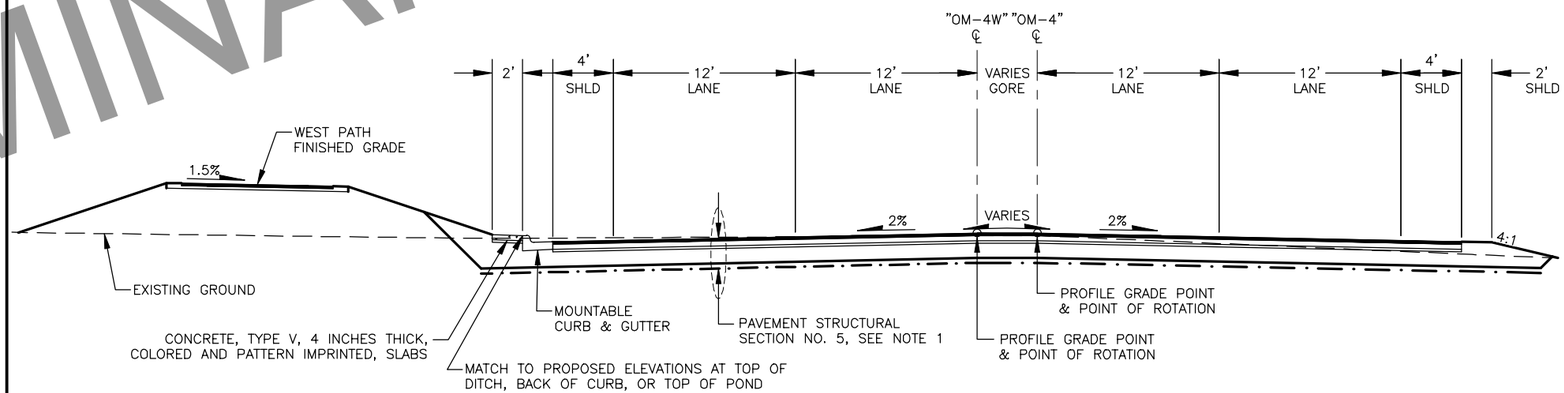
APRON EXCEPTION

"OM–4" STA. 2400+30 TO STA. 2401+03



O'MALLEY ROAD "RAMP OM–4" – SECTION B–B

"OM–4" STA. 2400+30 TO STA. 2401+49



O'MALLEY ROAD "RAMP OM–4" – SECTION C–C

"OM–4W" STA. 2451+77 TO STA. 2452+61
"OM–4" STA. 2401+49 TO STA. 2402+33

NOTES:

1. WHERE THE SECTION DIVERGES FROM EXISTING EDGE OF PAVEMENT, A 36" DEPTH OF SELECTED MATERIAL TYPE A SHALL BE INSTALLED FROM THE EXISTING EDGE OF PAVEMENT TO THE NEW FORESLOPE/DITCH BOTTOM.

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

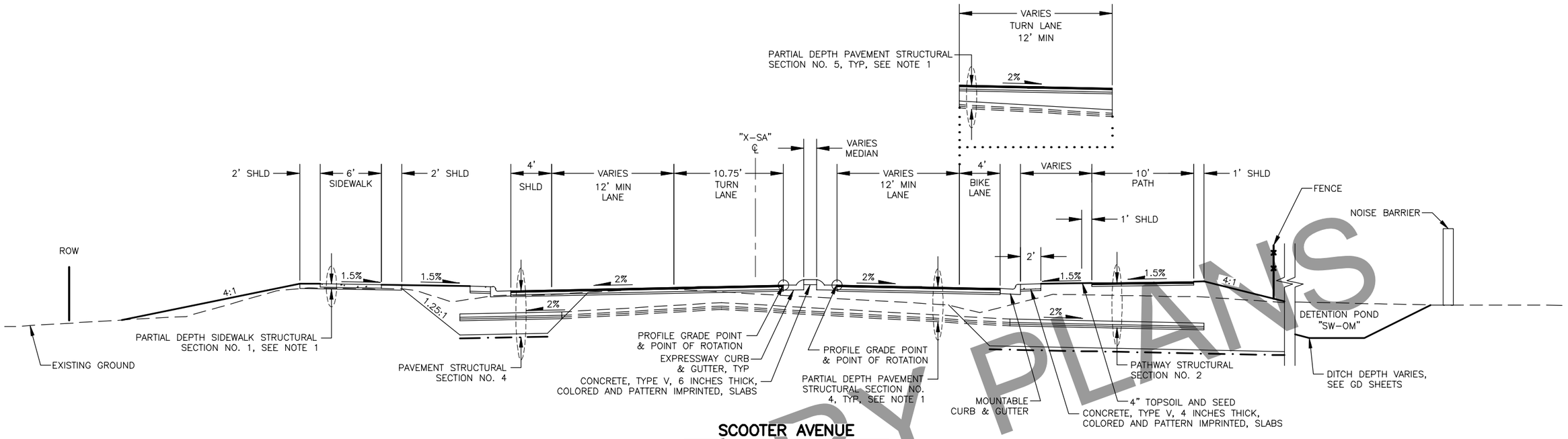
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE [C:\PW_WORKDIR\DEN001\RK053776\D0875434\00012_B106_TYP.DWG] DATE/TIME [4/11/2022 10:05 AM] LAYOUT [B106] DESIGNED [JM] CHECKED [MR] DRAFTED [RM]

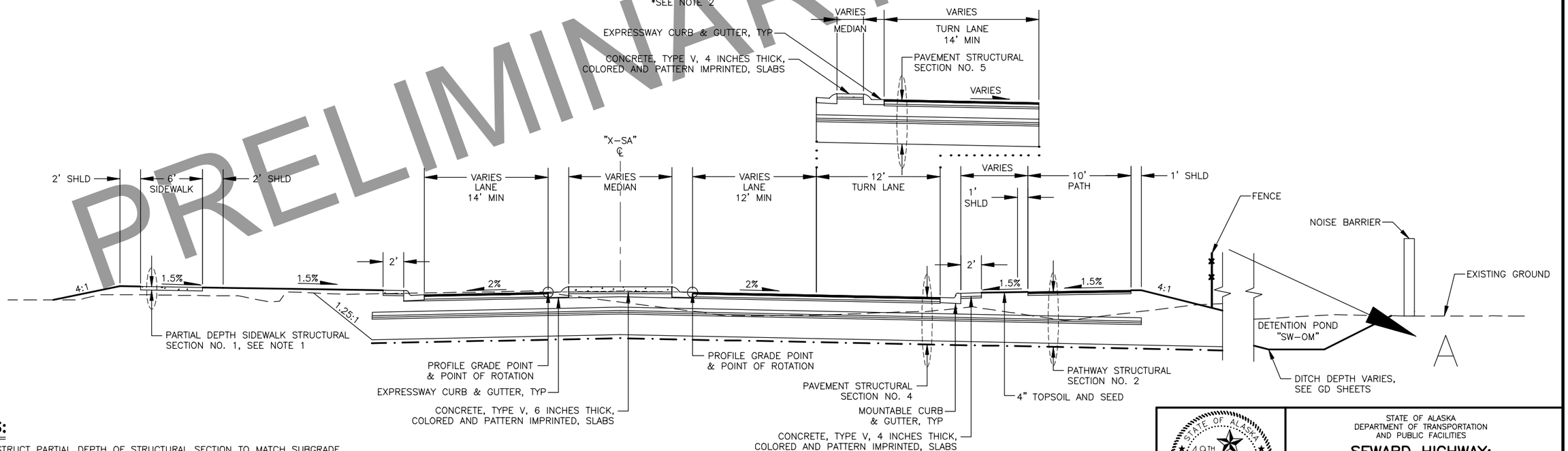
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B201	B203



SCOOTER AVENUE

"X-SA" STA. 3005+65 TO STA. 3010+67
*SEE NOTE 2



SCOOTER AVENUE – WEST ROUNDABOUT APPROACH

"X-SA" STA. 3010+67 TO "STA. 3012+00

NOTES:

1. CONSTRUCT PARTIAL DEPTH OF STRUCTURAL SECTION TO MATCH SUBGRADE CONSTRUCTED WITH 92ND AVENUE CONNECTOR PROJECT (2017).
2. PLANE AND PAVE FROM "X-SA" STA. 3005+65 TO STA. 3008+31. REMOVE EXISTING MEDIAN AND CONSTRUCT NEW MEDIAN ACCORDING TO PAVEMENT AND CURB LAYOUT PLANS.
3. INSULATION BOARD SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE ADJACENT SIDEWALK, PATHWAY, OR TRUCK APRON.

STATE OF ALASKA
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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

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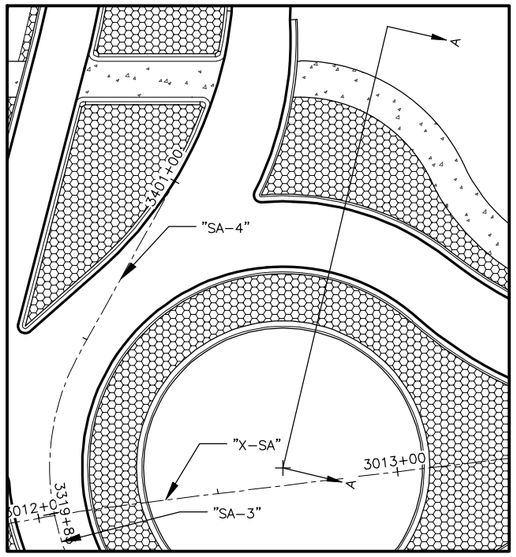
DATE/TIME: 4/11/2022 10:05 AM
LAYOUT: B201
DESIGNED: JM
CHECKED: MR
DRAFTED: RM

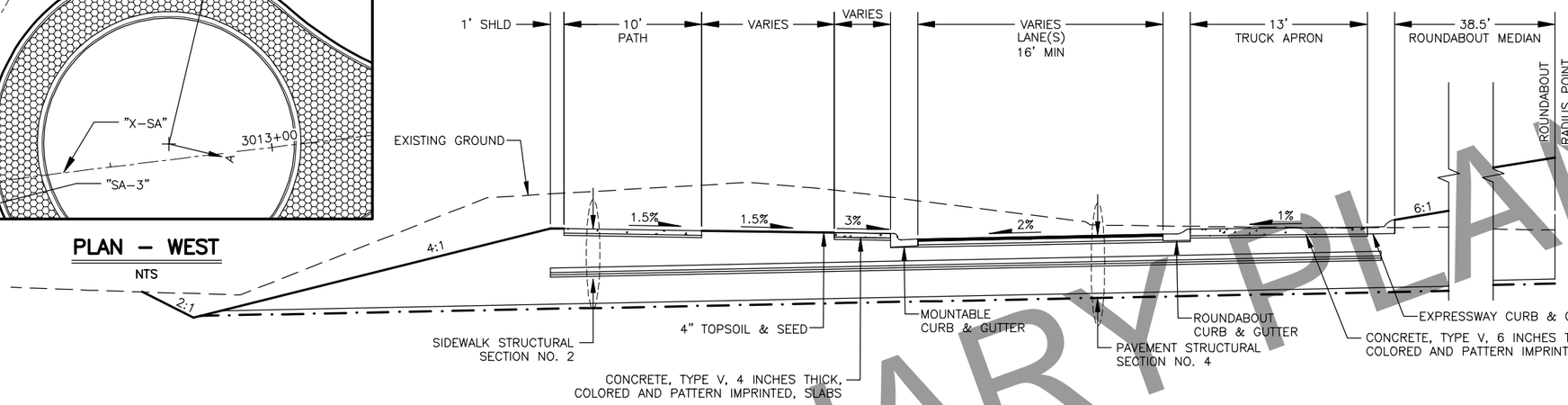
NO.	DATE	REVISION

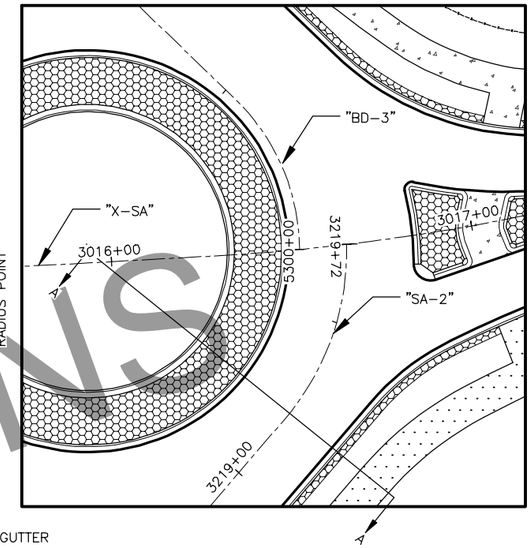
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B202	B203



PLAN – WEST

NTS



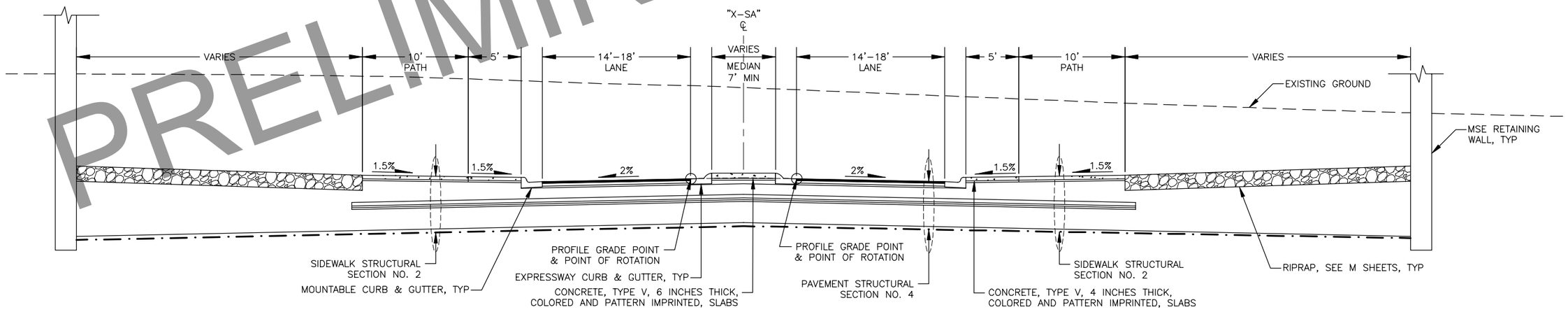


PLAN – EAST

NTS

SCOOTER AVENUE – SECTION A–A

"X–SA" STA. 3012+00 TO STA. 3013+57
"X–SA" STA. 3015+06 TO STA. 3016+81



SCOOTER AVENUE – UNDERPASS

"X–SA" STA. 3013+57 TO STA. 3015+06

NOTES:

1. INSULATION BOARD SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE ADJACENT SIDEWALK, PATHWAY, OR TRUCK APRON.

STATE OF ALASKA
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

DATE/TIME 4/11/2022 10:05 AM | LAYOUT B202 | DESIGNED JM | CHECKED MR | DRAFTED RM
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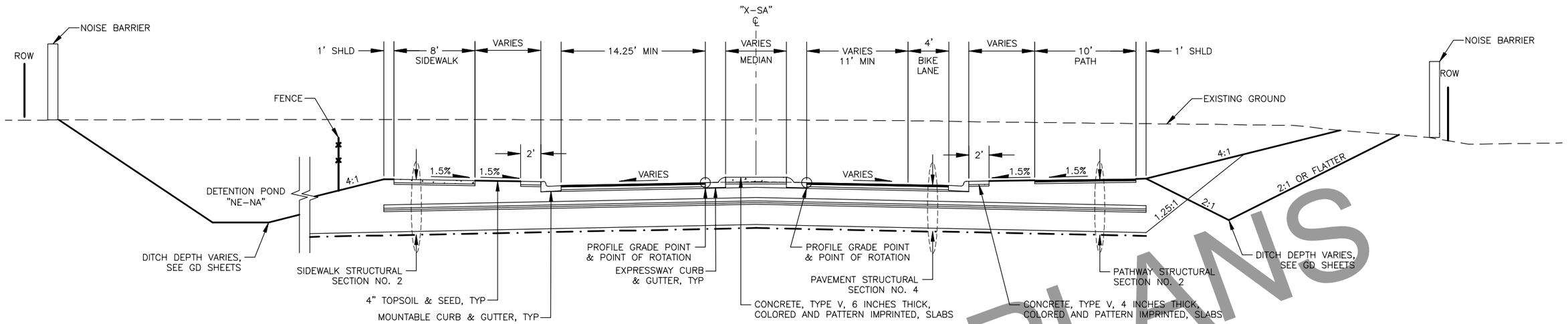
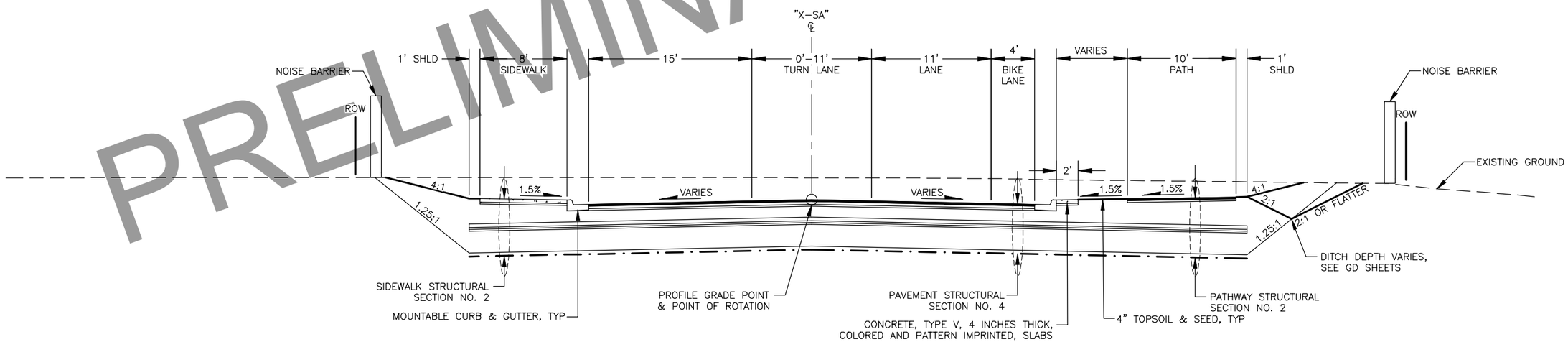
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	B203	B203



ACADEMY DRIVE – EAST ROUNDABOUT APPROACH

"X-SA" STA. 3016+81 TO STA. 3019+19



NOTES:

1. INSULATION BOARD SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE ADJACENT SIDEWALK, PATHWAY, OR TRUCK APRON.

ACADEMY DRIVE

"X-SA" STA. 3019+19 TO STA. 3024+80

STATE OF ALASKA
49TH
CERTIFICATION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0875434\00012_B203_TYP.DWG | DATE/TIME | 4/11/2022 10:05 AM | LAYOUT | B203 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	C1	C3

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	77
201.0010.0000	HAND CLEARING	LUMP SUM	ALL REQUIRED
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	192,000
202.0003.0000	REMOVAL OF SIDEWALK	SQUARE YARD	1,500
202.0004.0000	REMOVAL OF CULVERT PIPE	LINEAR FOOT	5,300
202.0005.0000	REMOVAL OF SANITARY SEWER PIPE	LINEAR FOOT	120
202.0006.0000	REMOVAL OF MANHOLE	EACH	6
202.0008.0000	REMOVAL OF INLET	EACH	24
202.0009.0000	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	10,000
202.2022.0000	REMOVAL OF FENCE	LINEAR FOOT	15,800
202.2023.0000	PAVEMENT PLANING	SQUARE YARD	8,550
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	380,000
203.0006.000A	BORROW, TYPE A	TON	570,000
203.2039.0000	DETENTION POND	EACH	4
203.2047.0000	POND LINER	SQUARE YARD	5,800
205.0006.0000	STRUCTURAL FILL	CUBIC YARD	6,340
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	37,300
306.0001.0000	ATB	TON	56,000
306.0002.5834	ASPHALT BINDER, GRADE PG 58-34 E	TON	3,000
306.2002.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401.0001.002A	HMA, TYPE II; CLASS A	TON	6,750
401.0004.5834	ASPHALT BINDER, GRADE PG 58-34 E	TON	370
401.0005.002B	HMA, TEMPORARY, TYPE II; CLASS B	TON	1,900
401.0014.0000	JOINT ADHESIVE	LINEAR FOOT	14,800
401.2022.0000	COMBINED PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	161
406.0008.0000	RUMBLE STRIPS, SHOULDERS	MILE	7
408.2001.00VH	HMA, TYPE VH	TON	20,100
408.2004.5834	ASPHALT BINDER, GRADE PG 58-34 E	TON	1,100
408.2014.0000	JOINT ADHESIVE	LINEAR FOOT	70,000
408.2022.0000	COMBINED PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
501.0001.0000	CLASS A CONCRETE	LUMP SUM	ALL REQUIRED
501.0007.0000	PRECAST CONCRETE MEMBER, 144'-0" DECKED BULB-TEE	EACH	25
503.0001.0000	REINFORCING STEEL	LUMP SUM	ALL REQUIRED
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LUMP SUM	ALL REQUIRED
504.0001.0000	STRUCTURAL STEEL	LUMP SUM	ALL REQUIRED
507.0002.0000	PEDESTRIAN RAILING	LINEAR FOOT	700

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
507.0004.0000	CONCRETE BRIDGE BARRIER	LINEAR FOOT	4,200
507.0006.0000	CABLE SAFETY RAILING	LINEAR FOOT	850
508.0001.0000	WATERPROOFING MEMBRANE, SPRAY-APPLIED	LUMP SUM	ALL REQUIRED
511.0001.0000	MECHANICALLY STABILIZED EARTH WALL	SQUARE FOOT	72,000
511.0001.0002	MECHANICALLY STABILIZED EARTH WALL, MOMENT SLAB COPING	LINEAR FOOT	3,600
511.0001.0002	MECHANICALLY STABILIZED EARTH WALL, WALL CAP COPING	LINEAR FOOT	445
517.2000.0000	SOIL NAIL WALL	SQUARE FOOT	4,350
517.2001.0000	SOIL NAIL WALL COPING	LINEAR FOOT	399
603.2032.0012	CORRUGATED HDPE PIPE 12 INCH	LINEAR FOOT	179
603.2032.0018	CORRUGATED HDPE PIPE 18 INCH	LINEAR FOOT	1,550
603.2032.0024	CORRUGATED HDPE PIPE 24 INCH	LINEAR FOOT	9,800
603.2032.0030	CORRUGATED HDPE PIPE 30 INCH	LINEAR FOOT	1,150
603.2032.0036	CORRUGATED HDPE PIPE 36 INCH	LINEAR FOOT	2,000
603.2033.0012	END SECTION FOR CORRUGATED HDPE PIPE 12 INCH	EACH	6
603.2033.0018	END SECTION FOR CORRUGATED HDPE PIPE 18 INCH	EACH	6
603.2033.0024	END SECTION FOR CORRUGATED HDPE PIPE 24 INCH	EACH	45
603.2033.0030	END SECTION FOR CORRUGATED HDPE PIPE 30 INCH	EACH	1
603.2033.0036	END SECTION FOR CORRUGATED HDPE PIPE 36 INCH	EACH	8
604.0001.0001	STORM SEWER MANHOLE, TYPE I	EACH	40
604.0001.0002	STORM SEWER MANHOLE, TYPE II	EACH	72
604.0003.0000	RECONSTRUCT EXISTING MANHOLE	EACH	18
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	16
604.0005.000A	INLET, TYPE A	EACH	26
604.0009.0000	RECONSTRUCT MANHOLE TOP SECTION	EACH	1
604.0012.0000	REPLACE INLET FRAME AND GRATE	EACH	20
604.0014.0000	REMOVE AND REPLACE SEWER MANHOLE FRAME AND LID	EACH	20
604.0015.0000	REMOVE AND REPLACE STORM DRAIN MANHOLE FRAME AND LID	EACH	20
604.2012.0000	OUTLET STRUCTURE	EACH	4
606.0001.0000	W-BEAM GUARDRAIL	LINEAR FOOT	7,250
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	11,300
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	15
606.0016.0000	TRANSITION RAIL	EACH	9
606.2002.0000	STEEL BOLLARD, REMOVABLE	EACH	3
606.2003.0000	WOOD BOLLARD, FIXED	EACH	6
606.2005.0000	ESSENTIAL REPLACEMENT PARTS	LUMP SUM	ALL REQUIRED
606.2006.0000	ESSENTIAL REPLACEMENT PARTS - INSTALLATION	CONTINGENT SUM	ALL REQUIRED
606.2007.000C	CRASH CUSHION, PERMANENT LOW MAINTENANCE AND SELF-RESTORING	EACH	4
607.0003.0000	CHAIN LINK FENCE	LINEAR FOOT	9,750
607.0005.0000	DRIVE GATE	EACH	4
607.2007.0000	NOISE BARRIER AND FOUNDATION	SQUARE FOOT	128,000
608.0001.0004	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	6,450
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	850
608.0006.0000	CURB RAMP	EACH	46

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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ESTIMATE OF QUANTITIES

DATE/TIME | 4/11/2022 11:38 AM | LAYOUT | C1 | DESIGNED | -- | CHECKED | -- | DRAFTED | --
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	C2	C3

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
608.2002.0000	ASPHALT PATHWAY	TON	1,900
608.2004.0000	ASPHALT MEDIANS	TON	7
608.2013.E004	CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS	SQUARE YARD	2,400
608.2013.E006	CONCRETE, TYPE V, 6 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS	SQUARE YARD	7,500
608.2017.0000	DETECTABLE WARNING TILES	EACH	39
609.0002.0001	CURB AND GUTTER, TYPE 1	LINEAR FOOT	28,300
611.0002.0001	RIPRAP, CLASS I	TON	1,230
614.0001.0000	CONCRETE BARRIER	LINEAR FOOT	1,800
614.2000.0000	RELOCATE CONCRETE BARRIER	LINEAR FOOT	1,100
615.0001.0000	STANDARD SIGN	SQUARE FOOT	4,400
615.0002.0000	REMOVE AND RELOCATE SIGN	EACH	21
615.0004.0000	DELINEATOR, RIGID	EACH	200
615.0005.0000	DELINEATOR, FLEXIBLE	EACH	95
615.0006.0000	SALVAGE SIGN	EACH	250
615.2017.0000	STANDARD OVERHEAD SIGN SUPPORT	EACH	3
615.2019.0000	OVERHEAD SIGN SUPPORT – BRIDGE	EACH	2
618.0001.0000	SEEDING	ACRE	38
618.0003.0000	WATER FOR SEEDING	M. GAL.	1,638
620.0001.0000	TOPSOIL	SQUARE YARD	183,000
621.0001.000A	TREE, PICEA GLAUCA 'DENSATA' 6' HT	EACH	6
621.0001.000B	TREE, POPULUS TREMULA 'ERECTA' 2" CAL	EACH	4
621.0002.000A	SHRUB, ROSA RUGOSA 'THERESE BUGNET' 18" HT	EACH	140
621.0002.000B	SHRUB, PINUS MUGO 'PUMILIO' 18" HT	EACH	40
621.0002.000C	SHRUB, JUNIPERUS HORIZONTALLIS 'BAR HARBOR' #1 CONT	EACH	830
621.0002.000D	SHRUB, ARCTOSTAPHYLOS 'UVA–URSI' #1 CONT	EACH	860
621.2004.000A	PERENNIAL, HEMEROCALLIS 'KING ALFRED' #1 CONT	EACH	90
621.2006.0000	WATER FOR MAINTENANCE	M. GAL.	168
622.2025.0000	LANDSCAPE BOULDER – SMALL	EACH	6
622.2025.0000	LANDSCAPE BOULDER – MEDIUM	EACH	10
622.2025.0000	LANDSCAPE BOULDER – LARGE	EACH	14
622.2038.0000	LANDSCAPE FILTER FABRIC	SQUARE YARD	1,050
622.2039.001A	MULCH, ROCK TYPE A, 2"–6" ROUND RIVER GRAVEL – 6" DEPTH	SQUARE YARD	710
622.2039.001B	MULCH, ROCK TYPE B, 2" ROUND RIVER GRAVEL – 6" DEPTH	SQUARE YARD	330
626.2003.0000	SANITARY SEWER CLEANOUT	EACH	3
626.2013.0000	ADJUST SANITARY SEWER CLEANOUT	EACH	2
627.0003.0000	INSTALL VALVE BOX	EACH	1
627.0004.0000	FIRE HYDRANT ADJUSTMENT	EACH	1
627.0005.0000	FIRE HYDRANT INSTALLATION	EACH	1
627.0007.0000	FIRE HYDRANT REMOVAL	EACH	2
627.0009.0012	GATE VALVE, 12 INCH	EACH	1
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	15

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
627.2014.0000	ABANDON WATER PIPE	LINEAR FOOT	170
627.2029.0000	FLUSHING HYDRANT	EACH	1
630.0001.0003	GEOTEXTILE, SEPARATION, CLASS 3	SQUARE YARD	274,000
634.0001.0000	GEOGRID, STABILIZATION, CLASS 1	SQUARE YARD	8,700
635.0001.0000	INSULATION BOARD	MBM	227
635.0001.0000	INSULATION BOARD, WATERLINE	MBM	38
639.2000.0000	APPROACH	EACH	17
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
641.0006.0000	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641.0007.0000	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642.0003.0000	THREE PERSON SURVEY PARTY	HOUR	400
642.2006.0000	CONTRACTOR FURNISHED ENGINEERING TOOLS	CONTINGENT SUM	ALL REQUIRED
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643.0032.0000	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643.2022.0000	PEDESTRIAN BARRIER	EACH	500
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644.2003.0000	IMAGE DOCUMENTATION	LUMP SUM	ALL REQUIRED
644.2004.0000	ENGINEERING COMMUNICATIONS	CONTINGENT SUM	ALL REQUIRED
644.2007.0000	VEHICLE (LT/SUV)	EACH	5
645.0001.0000	TRAINING PROGRAM, 8 TRAINEES/APPRENTICES	LABOR HOUR	8,000
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
646.2000.0000	SCHEDULE PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
647.2000.0000	WIDE PAD DOZER, 65–HP MINIMUM	CONTINGENT SUM	ALL REQUIRED
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75–HP MINIMUM, 15 FT DEPTH	CONTINGENT SUM	ALL REQUIRED
660.0001.000A	TRAFFIC SIGNAL SYSTEM COMPLETE, O'MALLEY EAST	LUMP SUM	ALL REQUIRED
660.0001.000B	TRAFFIC SIGNAL SYSTEM COMPLETE, O'MALLEY WEST	LUMP SUM	ALL REQUIRED
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660.0007.0000	TEMPORARY SIGNAL SYSTEM COMPLETE, O'MALLEY EAST	LUMP SUM	ALL REQUIRED
660.0007.0000	TEMPORARY SIGNAL SYSTEM COMPLETE, O'MALLEY WEST	LUMP SUM	ALL REQUIRED
660.0007.0000	TEMPORARY SIGNAL SYSTEM COMPLETE, DIMOND WEST	LUMP SUM	ALL REQUIRED
660.0013.0000	RELOCATE ELECTROLIER	EACH	1
660.2000.0000	TEMPORARY ELECTROLIER	CONTINGENT SUM	ALL REQUIRED

STATE OF ALASKA
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ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ESTIMATE OF QUANTITIES

DATE/TIME 4/11/2022 11:39 AM | LAYOUT C2 | DESIGNED -- | CHECKED -- | DRAFTED --
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	C3	C3

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
660.2003.0000	TRAFFIC SIGNAL SYSTEM MODIFICATIONS, DIMOND BLVD	LUMP SUM	ALL REQUIRED
661.0001.0000	LOAD CENTER, TYPE 1	EACH	1
661.0002.0000	LOAD CENTER, TYPE 1A	EACH	6
661.0005.0000	MODIFY LOAD CENTER	EACH	5
662.2001.0000	SIGNAL INTERCONNECT, O'MALLEY	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H2	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H3	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H7	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H8	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H9	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H10	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H11	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H13	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H14	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H30	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H31	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H32	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H33	LUMP SUM	ALL REQUIRED
669.2000.0000	TRAFFIC DATA – SITE H34	LUMP SUM	ALL REQUIRED
670.2004.0000	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROW(S) SURFACE APPLIED	EACH	21
670.2006.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LINEAR FOOT	148,000
670.2007.0000	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROW(S) INLAID	EACH	122
670.2008.0000	MMA PAVEMENT MARKINGS, TRANSVERSE AND GORE INLAID	LINEAR FOOT	25,100
682.2000.0000	VAC–TRUCK POTHOLE	CONTINGENT SUM	ALL REQUIRED

TABLE OF ESTIMATING FACTORS

ITEM NO.	ITEM DESCRIPTION	UNIT
203.0006.000A	BORROW, TYPE A	144 LB./C.F.
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D–1	144 LB./C.F.
306.0001.0000	ATB	151 LB./C.F.
306.0002.5834	ASPHALT BINDER, GRADE PG 58–34 E	5.3% OF TOTAL WEIGHT OF 306.0001.0000
401.0001.002A	HMA, TYPE II; CLASS A	151 LB./C.F.
401.0004.5834	ASPHALT BINDER, GRADE PG 58–34 E	5.3% OF TOTAL WEIGHT OF 401.0001.002A
401.0005.002B	HMA, TEMPORARY, TYPE II; CLASS B	151 LB./C.F.
402.0001.STE1	STE–1 ASPHALT FOR TACK COAT	0.000334 TON/S.Y.
408.2001.00VH	HMA, TYPE VH	151 LB./C.F.
408.2004.5834	ASPHALT BINDER, GRADE PG 58–34 E	5.3% OF TOTAL WEIGHT OF 408.2001.00VH
608.2002.0000	ASPHALT PATHWAY	151 LB./C.F.
608.2004.0000	ASPHALT MEDIANS	151 LB./C.F.
611.0002.0001	RIPRAP, CLASS I	108 LB./C.F.
618.0003.0000	WATER FOR SEEDING	1.0 GAL/S.F.

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ESTIMATE OF QUANTITIES AND TABLE OF ESTIMATING FACTORS

DATE/TIME 4/11/2022 11:40 AM | LAYOUT C3 | DESIGNED -- | CHECKED -- | DRAFTED --
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D0	D24

EARTHWORK SUMMARY

ALIGNMENT	STATION		ESTIMATED EXCAVATION				ESTIMATED EMBANKMENT			MISC SUMMARY				
			UNCLASSIFIED EXCAVATION	WASTE	UNCLASSIFIED EXCAVATION (USABLE)	SHRUNK UNLC. EX. USABLE AS SELECTED MATERIAL TYPE A	SELECTED MATERIAL, TYPE A	STRUCTURAL, TYPE A	TOTAL EMBANKMENT	AGGREGATE BASE COURSE, GRADING D-1	ATB	HMA, TYPE II; CLASS A	HMA, TYPE VH	HMA TEMPORARY, TYPE II, CLASS B
	FROM	TO	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)
"ML" (BOP TO "X-SA")	308+69	359+54	74,675	59,740	14,935	13,442	28,268	42,227	70,495	4,941	8,676	0	3,470	0
"ML" ("X-SA" TO "X-DI")	360+99	385+94	24,855	19,884	4,971	4,474	38,694	17,326	56,020	2,029	4,391	0	1,756	0
"ML" ("X-DI" TO EOP)	386+92	411+85	15,596	12,477	3,119	2,807	780	13,349	14,129	2,018	3,885	0	1,554	0
"BD-1"	5100+00	5109+00	229	229	0	0	2,278	531	2,809	90	87	87	0	0
"BD-2"	5200+00	5237+76	19,647	19,647	0	0	1,826	9,101	10,927	1,002	641	499	0	0
"BD-3"	5300+00	5315+76	7,502	7,502	0	0	685	2,158	2,843	273	193	193	0	0
"BD-4"	5400+00	5408+00	423	423	0	0	558	718	1,276	89	33	33	0	0
"HD-3"	6300+00	6313+40	1,617	1,617	0	0	5,825	2,582	8,407	339	216	157	0	0
"HD-4"	6400+00	6406+97	1,102	1,102	0	0	160	1,243	1,403	100	69	69	0	0
"OM-1"	2100+00	2118+31	4,740	4,740	0	0	2,675	3,188	5,863	384	335	189	49	0
"OM-1E"	2150+00	2154+80	657	657	0	0	44	446	490	48	47	19	0	0
"OM-2"	2200+00	2208+43	5,365	5,365	0	0	79	1,300	1,379	158	368	318	20	0
"OM-2E"	2250+00	2251+81	47	47	0	0	278	92	370	13	13	13	0	0
"OM-3"	2300+00	2308+91	6,404	6,404	0	0	60	1,408	1,468	188	392	0	157	0
"OM-3W"	2350+00	2354+42	658	658	0	0	183	235	418	33	62	0	25	0
"OM-4"	2400+00	2414+04	2,948	2,948	0	0	4,725	2,594	7,319	368	706	0	282	0
"OM-4W"	2450+00	2452+60	506	506	0	0	0	295	295	45	82	0	33	0
"SA-2"	3200+00	3219+71	12,181	12,181	0	0	1,463	3,955	5,418	476	447	239	53	0
"SA-3"	3300+00	3319+85	6,942	6,942	0	0	198	1,316	1,514	218	415	0	166	0
"SA-4"	3400+00	3423+12	28,437	28,437	0	0	4,691	5,673	10,364	589	543	321	50	0
														0
"DI-1"	4100+00	4118+34	1,484	1,484	0	0	2,320	1,986	4,306	260	179	129	20	0
"DI-2"	4200+00	4219+15	5,738	5,738	0	0	579	3,777	4,356	446	402	296	42	0
"DI-4"	4400+00	4414+47	2,552	2,552	0	0	6,370	2,052	8,422	303	336	266	28	0
"DI-5"	4500+00	4503+12	505	505	0	0	0	283	283	47	73	0	29	0
"X-OM"	2500+20	2517+00	10,195	8,156	2,039	1,835	2,086	4,972	7,058	756	1,504	0	730	0
"X-SA"	3000+00	3025+40	43,873	43,873	0	0	2,062	13,296	15,358	739	864	0	523	0
														0
APPROACHES			3,834	3,834	0	0	0	3,834	3,834	319	319	319	0	0
WESTERN PATHWAY			3,850	3,850	0	0	0	12,100	12,100	1,100	0	0	0	0
SCOOTER AVE BRIDGE DECK			0	0	0	0	0	0	0	0	0	0	248	0
DIMOND BLVD BRIDGE DECK			0	0	0	0	0	0	0	0	0	0	122	0
DETENTION PONDS			35,132	35,132	0	0	2,326	0	2,326	0	0	0	0	0
SUB-EXCAVATION/BACKFILL			19,000	19,000	0	0	19,000	0	19,000	0	0	0	0	0
WALL OVER EXCAVATION			4,854	4,854	0	0	4,854	0	4,854	0	0	0	0	0
DETOURS			15,650	15,650	0	0	5,960	10,478	16,438	874	874	0	0	874
SUBTOTAL (CY)			361,198	336,134			139,027	162,515	301,542	18,245	26,152	3,147	9,357	874
LESS EXCAVATION (CY)									22558					
ITEM NUMBER			203.0003.0000						203.0006.000A	301.0001.00D1	306.0001.0000	401.0001.002A	408.2001.00VH	401.0005.002B
TOTAL QUANTITY (CY)			361,198						278,984	18,245	26,152	3,147	9,357	874
TOTAL PAY ITEM QUANTITY +5% (CY)			380,000						292,933	19,157	27,460	3,304	9,825	918
ESTIMATING FACTORS (LB/CF)									144	144	151	151	151	151
TOTAL PAY ITEM QUANTITY (TON)									570,000	37,300	56,000	6,750	20,100	1,900

NOTES:

1. WASTE VARIES PER ALIGNMENT
2. UNCLASSIFIED EXCAVATION (USEABLE) = UNCLASSIFIED EXCAVATION − WASTE
3. ESTIMATED SHRUNK COMMON EXCAVATION (USABLE) = 0.90 × UNCLASSIFIED EXCAVATION (USEABLE)
4. TOTAL SELECTED MATERIAL TYPE A = SUB-EXCAVATION BACKFILL + EMBANKMENT FILL + STRUCTURAL TYPE A − ESTIMATED USEABLE

THIS SHEET WILL BE REMOVED FOR ADVERTISEMENT UNLESS THE CONSTRUCTION PROJECT MANAGER REQUIRES IT. IF IT'S REQUIRED, THE SHEET NUMBER WILL BECOME **D1**.

STATE OF ALASKA
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SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D1	D24

202.0001.0000 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

SHEET	STATION	OFFSET	REMARKS
F15	"N–SB–SP" 541+99	48' LT	TEMPORARY MOMENT SLAB AND BARRIER
F17	"BD–2" 5205+65	65' RT	PRIVATE SIGN
F25	"HD–4" 6401+03	46' LT	UTILITY VAULT
F33	"SA–2" 3218+30	3' LT	POST
	"SA–2" 3218+52	13' LT	POST
F205	"X–SA" 3017+48	94' RT	POST
F207	"X–SA" 3021+50	44' RT	PRIVATE SIGN
FP1	"WP" 101+61	20' LT	CONCRETE BARRIER
	"WP" 101+88	23' LT	CONCRETE BARRIER

202.0002.0000 – REMOVAL OF PAVEMENT

SHEET	STATION		AREA (SY)	REMARKS
	FROM	TO		
F1	"S–SB–SP" 200+69	"S–SB–SP" 212+00	4971	
F2	"S–NB–SP" 600+69	"S–NB–SP" 612+00	4728	
F3	"S–SB–SP" 212+00	"S–SB–SP" 225+00	7527	
F4	"S–NB–SP" 612+00	"S–NB–SP" 625+00	6785	
F5	"S–SB–SP" 225+00	"S–SB–SP" 238+00	8123	
	"S–NB–SP" 625+00	"S–NB–SP" 638+00	5475	
F6	"S–SB–SP" 238+00	"ML" 359+00	8144	
	"S–NB–SP" 638+00	"ML" 359+00	5481	
F7	"ML" 359+00	"N–SB–SP" 502+00	7825	
F8	"ML" 359+00	"N–NB–SP" 902+00	5907	
F9	"N–SB–SP" 502+00	"N–SB–SP" 515+00	6989	
F10	"N–NB–SP" 902+00	"N–NB–SP" 915+00	6293	
F11	"N–SB–SP" 515+00	"N–SB–SP" 528+00	7878	
F12	"N–NB–SP" 915+00	"N–NB–SP" 928+00	8525	
F13	"N–SB–SP" 528+00	"N–SB–SP" 533+50	3878	
F14	"N–NB–SP" 928+00	"N–NB–SP" 935+55	5804	
F16	"BD–1" 5100+85	"BD–1" 5108+25	2177	
F17	"BD–2" 5204+82	"BD–2" 5212+00	3294	
F18	"BD–2" 5212+00	"BD–2" 5225+00	5029	
F19	"BD–2" 5225+00	"BD–2" 5238+12	4648	
F20	"BD–3" 5300+00	"BD–3" 5311+00	4070	
F21	"BD–3" 5311+00	"BD–3" 5313+96	1060	
F22	"BD–4" 5402+34	"BD–4" 5405+00	646	
F23	"HD–3" 6305+25	"HD–3" 6307+00	512	
F24	"HD–3" 6307+00	"HD–3" 6311+20	1643	
F24	"HD–3" 6309+91	"HD–3" 6312+78	332	EXISTING PATH
F25	"HD–4" 6400+00	"HD–4" 6406+90	2363	
F26	"OM–1" 2101+58	"OM–1" 2112+00	4648	
F27	"OM–1" 2112+00	"OM–1" 2114+02	548	
F28	"OM–2" 2200+10	"OM–2" 2208+19	3090	
F29	"OM–3" 2300+28	"OM–3" 2308+04	2225	

202.0002.0000 – REMOVAL OF PAVEMENT

SHEET	STATION		AREA (SY)	REMARKS
	FROM	TO		
F30	"OM–4" 2400+22	"OM–4" 2408+00	3609	
F31	"OM–4" 2408+00	"OM–4" 2411+20	856	
F32	"SA–2" 3210+58	"SA–2" 3211+50	304	
F33	"SA–2" 3211+50	"SA–2" 3218+13	2369	
F34	"SA–3" 3308+29	"SA–3" 3311+00	744	
F35	"SA–3" 3311+00	"SA–3" 3319+72	2399	
F36	"SA–4" 3400+00	"SA–4" 3403+65	1377	
	"SA–4" 3401+60	"SA–4" 3412+00	1166	EXISTING PATH
F37	"SA–4" 3412+00	"SA–4" 3423+12	1246	EXISTING PATH
F38	"DI–1" 4100+75	"DI–1" 4108+61	2847	
F40	"DI–2" 4204+24	"DI–2"4210+00	2196	
F41	"DI–2" 4210+00	"DI–2"4214+53	1803	
F42	"DI–4" 4403+00	"DI–4" 4410+21	3220	
F44	"DI–5" 4500+18	"DI–5" 4500+86	191	
F101	"X–OM–WB" 2501+50	"X–OM–WB" 2505+00	3810	
	"X–OM–WB" 2502+14	"X–OM–WB" 2502+53	41	EXISTING PATH
	"X–OM–WB" 2502+96	"X–OM–WB" 2505+00	193	EXISTING PATH
	"X–OM–WB" 2504+68	"X–OM–WB" 2505+00	37	EXISTING PATH
F103	"X–OM–WB" 2505+00	"X–OM–WB" 2510+00	5382	
	"X–OM–WB" 2505+00	"X–OM–WB" 2506+84	297	EXISTING PATH
	"X–OM–WB" 2505+00	"X–OM–WB" 2507+57	241	EXISTING PATH
F105	"X–OM–WB" 2510+00	"X–OM–WB" 2514+00	4228	
	"X–OM–WB" 2511+83	"X–OM–WB" 2514+00	259	EXISTING PATH
	"X–OM–WB" 2512+77	"X–OM–WB" 2514+00	246	EXISTING PATH
F107	"X–OM–WB" 2514+00	"X–OM–WB" 2515+69	1623	
	"X–OM–WB" 2514+00	"X–OM–WB" 2515+68	246	EXISTING PATH
	"X–OM–WB" 2514+00	"X–OM–WB" 2515+68	226	EXISTING PATH
F201	"X–SA" 3008+08	"X–SA" 3010+00	1100	
	"X–SA" 3008+01	"X–SA" 3010+00	246	EXISTING PATH
	"X–SA" 3008+00	"X–SA" 3010+00	246	EXISTING PATH
F203	"X–SA" 3010+00	"X–SA" 3010+59	196	
	"X–SA" 3010+00	"X–SA" 3010+45	117	
	"X–SA" 3010+00	"X–SA" 3011+07	178	EXISTING PATH
	"X–SA" 3010+00	"X–SA" 3012+65	338	EXISTING PATH
F205	"X–SA" 3015+40	"X–SA" 3020+00	1993	
F207	"X–SA" 3020+00	"X–SA" 3025+70	1684	
FP2	"WP" 107+10	"WP" 108+00	86	EXISTING PATH
FP3	"WP" 108+00	"WP" 112+00	348	EXISTING PATH
FP4	"WP" 112+00	"WP" 116+00	326	EXISTING PATH
FP5	"WP" 116+00	"WP" 120+00	344	EXISTING PATH
FP6	"WP" 120+00	"WP" 124+00	350	EXISTING PATH
FP7	"WP" 124+00	"WP" 128+00	362	EXISTING PATH
FP8	"WP" 128+00	"WP" 132+00	340	EXISTING PATH
FP9	"WP" 132+00	"WP" 136+00	344	EXISTING PATH
FP10	"WP" 136+00	"WP" 140+00	338	EXISTING PATH
FP11	"WP" 140+00	"WP" 144+00	379	EXISTING PATH
FP12	"WP" 144+00	"WP" 148+00	423	EXISTING PATH
FP13	"WP" 148+00	"WP" 152+00	429	EXISTING PATH
		TOTAL:	191941	
		PAY ITEM QUANTITY:	192000	

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REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME | 4/11/2022 9:35 AM | LAYOUT | D1 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876329\00012_D01_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D2	D24

202.0003.0000 – REMOVAL OF SIDEWALK

SHEET	STATION FROM	STATION TO	AREA (SY)	OFFSET	REMARKS
F18	"BD–2" 5217+11	"BD–2" 5217+05	36	RT	
F22	"BD–4" 5405+63	"BD–4" 5407+60	226	RT	
F38	"DI–1" 4100+75	"DI–1" 4109+29	668	RT	
F42	"DI–4" 4400+52	"DI–4" 4401+16	85	LT	
F103	"X–OM–WB" 2507+47	"X–OM–WB" 2510+00	133	LT	
	"X–OM–WB" 2507+85	"X–OM–WB" 2510+00	118	RT	
F105	"X–OM–WB" 2510+00	"X–OM–WB" 2511+63	107	RT	
	"X–OM–WB" 2510+00	"X–OM–WB" 2511+96	86	LT	
		TOTAL:	1459		
		PAY ITEM QUANTITY:	1500		

202.0004.0000 – REMOVAL OF CULVERT PIPE

SHEET	STATION	OFFSET	LENGTH (LF)	REMARKS
F3	"ML" 322+74	159' LT	148	CUT PIPE AT S020.
F4	"ML" 325+67	–	4	
F6	"ML" 352+00	–	214	
F7	"ML" 367+02	–	202	
F16	"BD–1" 5104+65	–	48	
F17	"BD–2" 5203+22	–	55	
	"BD–2" 5205+84	35' RT	65	
	"BD–2" 5208+40	49' RT	80	
	"BD–2" 5212+58	–	51	
F18	"BD–2" 5216+90	45' RT	78	
F19	"BD–2" 5231+62	–	60	
F20	"BD–3" 5303+77	48' RT	59	
	"BD–3" 5308+08	53' RT	76	
	"BD–3" 5310+00	53' RT	55	
F21	"BD–3" 5311+07	–	38	
	"BD–3" 5311+94	52' RT	66	
F22	"BD–4" 5402+41	21' RT	104	
F28	"OM–2" 2207+23	–	95	
	"OM–2" 2208+00	52' LT	30	INCLUDE ENERGY DISSIPATER AT DOWNSTREAM END OF REMAINING FLUME
F29	"OM–3" 2307+38	–	60	
	"OM–3" 2308+40	44' RT	17	INCLUDE ENERGY DISSIPATER AT DOWNSTREAM END OF REMAINING FLUME
F30	"OM–4" 2403+27	–	81	
F31	"OM–4" 2411+86	168' LT	34	
	"OM–4" 2413+87	126' LT	310	

202.0004.0000 – REMOVAL OF CULVERT PIPE

SHEET	STATION	OFFSET	LENGTH (LF)	REMARKS
F32	"SA–2" 3211+00	–	48	
F33	"SA–2" 3214+03	–	46	
F34	"SA–3" 3310+42	21' LT	10	
	"SA–3" 3310+98	16' LT	111	
F35	"SA–3" 3312+13	23' LT	121	
F37	"SA–4" 3412+48	14' LT	61	
	"SA–4" 3416+96	43' RT	94	
F41	"DI–2" 4209+79	–	147	
F42	"DI–4" 4402+81	–	71	
	"DI–4" 4404+43	25' RT	157	
	"DI–4" 4406+60	–	54	
	"DI–4" 4408+73	42' LT	54	
F101	"X–OM–WB" 2503+31	82' RT	255	
	"X–OM–WB" 2504+92	70' RT	40	
	"X–OM–WB" 2504+93	17' RT	72	
F103	"X–OM–WB" 2506+10	88' RT	198	
	"X–OM–WB" 2506+48	75' LT	73	
	"X–OM–WB" 2506+65	36' LT	12	
	"X–OM–WB" 2506+90	11' RT	96	
	"X–OM–WB" 2507+23	54' LT	120	
	"X–OM–WB" 2507+65	31' RT	106	
	"X–OM–WB" 2507+74	86' LT	21	
	"X–OM–WB" 2507+82	58' RT	97	
	"X–OM–WB" 2508+15	24' RT	23	
	"X–OM–WB" 2508+68	1' RT	113	
F105	"X–OM–WB" 2510+08	4' RT	166	
	"X–OM–WB" 2510+65	135' LT	24	INCLUDE ENERGY DISSIPATER AT DOWNSTREAM END OF REMAINING FLUME
	"X–OM–WB" 2511+13	30' RT	73	
	"X–OM–WB" 2512+51	75' RT	48	
	"X–OM–WB" 2512+93	8' RT	113	
	"X–OM–WB" 2513+66	72' RT	151	
F107	"X–OM–WB" 2514+42	–	89	
F201	"X–SA" 3008+70	50' RT	92	
	"X–SA" 3009+07	–	76	
	"X–SA" 3009+85	23' RT	149	
F205	"X–SA" 3015+79	45' RT	79	
		TOTAL:	5290	
		PAY ITEM QUANTITY:	5300	

202.0005.0000 REMOVAL OF SANITARY SEWER PIPE

SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
U9	"S2" STA 0+28.00	"S2" STA 1+48.00	0.00	120	REMOVE 8" DIP SEWER LINE
			TOTAL:	120	
			PAY ITEM QUANTITY:	120	

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D3	D24

202.0006.0000 – REMOVAL OF MANHOLE

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F34	"SA–3"	3310+42	16.3' LT	
F35	"SA–3"	3311+53	17.8' LT	
F103	"X–OM–WB"	2506+67	31.5' LT	
	"X–OM–WB"	2509+25	1.6' RT	
F105	"X–OM–WB"	2510+91	1.3' LT	
U9	"S2"	0+39	0.00	REMOVE CLEANOUT MANHOLE SS–63
		TOTAL:	6	
		PAY ITEM QUANTITY:	6	

202.0008.0000 – REMOVAL OF INLET

SHEET	ALIGNMENT	STATION	OFFSET	REMARKS
F6	"ML"	353+25	141.2' LT	
F13	"N–SB–SP"	533+12	42.9' LT	
F14	"N–NB–SP"	930+02.61	72.83' RT	
F21	"BD–3"	5311+00	2.0' LT	
F22	"BD–4"	5402+94	20.4' RT	
F101	"X–OM–WB"	2502+31	76.3' RT	
	"X–OM–WB"	2504+83	87.5' RT	
	"X–OM–WB"	2504+85	18.6' LT	
F103	"X–OM–WB"	2505+02	51.7' RT	
	"X–OM–WB"	2506+38	109.1' LT	
	"X–OM–WB"	2506+63	42.5' LT	
	"X–OM–WB"	2507+13	53.2' RT	
	"X–OM–WB"	2507+38	84.6' RT	
	"X–OM–WB"	2507+79	76.1' LT	
	"X–OM–WB"	2508+13	12.0' RT	
	"X–OM–WB"	2508+18	34.2' RT	
F105	"X–OM–WB"	2512+32	90.8' RT	
	"X–OM–WB"	2512+69	59.3' RT	
	"X–OM–WB"	2513+13	43.5' LT	
F107	"X–OM–WB"	2514+41	25.7' LT	
	"X–OM–WB"	2514+46	63.2' RT	
F201	"X–SA"	3009+01	34.2' LT	
	"X–SA"	3009+15	41.0' RT	
F203	"X–SA"	3010+57	12.9' RT	
		TOTAL:	24	
		PAY ITEM QUANTITY:	24	

202.0009.0000 – REMOVAL OF CURB AND GUTTER

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F13	"N–SB–SP" 532+41	"N–SB–SP" 532+61	LT	25	
	"N–SB–SP" 536+28	"N–SB–SP" 536+55	LT	30	
	"N–SB–SP" 536+96	"N–SB–SP" 537+23	LT	30	
	"N–SB–SP" 539+03	"N–SB–SP" 539+40	LT	40	
	"N–SB–SP" 539+92	"N–SB–SP" 540+20	LT	30	
	"N–SB–SP" 540+71	"N–SB–SP" 540+97	LT	27	
F14	"N–SB–SP" 541+47	"N–SB–SP" 541+93	LT	51	
F18	"BD–2" 5216+74	"BD–2" 5216+74	RT	55	
	"BD–2" 5217+07	"BD–2" 5217+07	RT	55	
F20	"BD–3" 5307+89	"BD–3" 5307+90	RT	13	
	"BD–3" 5308+14	"BD–3" 5308+16	RT	16	
	"BD–3" 5309+85	"BD–3" 5309+89	RT	45	
	"BD–3" 5310+13	"BD–3" 5310+16	RT	45	
	"BD–3" 5311+87	"BD–3" 5311+88	RT	37	
F21	"BD–3" 5312+12	"BD–3" 5312+12	RT	34	
F22	"BD–4" 5404+60	"BD–4" 5047+60	RT	312	
	"HD–4" 6404+18	"HD–4" 6404+58	LT	62	
	"HD–4" 6404+94	"HD–4" 6406+78	LT	215	
F38	"DI–1" 4100+75	"DI–1" 4109+33	RT	863	
F41	"DI–2" 4218+13	"DI–2" 4218+34	RT	23	
F42	"DI–4" 4400+12	"DI–4" 4400+15	LT	120	
	"DI–4" 4400+53	"DI–4" 4401+15	LT	91	
F101	"X–OM–WB" 2501+30	"X–OM–WB" 2505+00	LT	370	
	"X–OM–WB" 2502+14	"X–OM–WB" 2502+54	RT	69	
	"X–OM–WB" 2502+81	"X–OM–WB" 2503+71	RT	186	
	"X–OM–WB" 2502+87	"X–OM–WB" 2505+00	RT	232	
	"X–OM–WB" 2503+10	"X–OM–WB" 2505+00	RT	374	
F103	"X–OM–WB" 2505+00	"X–OM–WB" 2506+76	LT	251	
	"X–OM–WB" 2505+00	"X–OM–WB" 2506+98	RT	401	
	"X–OM–WB" 2505+00	"X–OM–WB" 2507+77	RT	265	
	"X–OM–WB" 2507+03	"X–OM–WB" 2507+28	–	87	
	"X–OM–WB" 2507+37	"X–OM–WB" 2510+00	LT	249	
	"X–OM–WB" 2507+88	"X–OM–WB" 2510+00	RT	238	
	"X–OM–WB" 2507+81	"X–OM–WB" 2510+00	LT	412	
F105	"X–OM–WB" 2510+00	"X–OM–WB" 2512+07	LT	210	
	"X–OM–WB" 2510+00	"X–OM–WB" 2511+58	LT	296	
	"X–OM–WB" 2510+00	"X–OM–WB" 2511+46	RT	216	
	"X–OM–WB" 2512+08	"X–OM–WB" 2514+00	–	406	
	"X–OM–WB" 2512+40	"X–OM–WB" 2512+74	LT	196	
	"X–OM–WB" 2512+66	"X–OM–WB" 2514+00	LT	265	
	"X–OM–WB" 2511+83	"X–OM–WB" 2514+00	RT	214	

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D4	D24

202.0009.0000 – REMOVAL OF CURB AND GUTTER

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F107	"X-OM-WB" 2514+00	"X-OM-WB" 2515+69	LT	167	
	"X-OM-WB" 2514+00	"X-OM-WB" 2515+69	RT	338	
	"X-OM-WB" 2514+00	"X-OM-WB" 2515+69	RT	166	
F201	"X-SA" 3005+66	"X-SA" 3006+67	–	204	
	"X-SA" 3008+08	"X-SA" 3008+60	LT	56	
	"X-SA" 3008+10	"X-SA" 3008+61	RT	54	
	"X-SA" 3009+26	"X-SA" 3009+72	–	95	
F205	"X-SA" 3016+00	"X-SA" 3020+00	RT	382	
	"X-SA" 3015+99	"X-SA" 3020+00	RT	370	
F207	"X-SA" 3020+00	"X-SA" 3024+92	LT	484	
	"X-SA" 3020+00	"X-SA" 3024+92	RT	494	
			TOTAL:	9966	
			PAY ITEM QUANTITY:	10000	

202.2023.0000 – PAVEMENT PLANING

SHEET	STATION FROM	STATION TO	AREA (SY)	REMARKS
F13	"N-SB-SP" 533+50	"N-SB-SP" 541+00	2763	
F15	"N-SB-SP" 541+00	"N-SB-SP" 542+37	376	
F24	"HD-3" 6311+20	"HD-3" 6312+76	591	
F41	"DI-2" 4214+53	"DI-2" 4218+44	1833	
F42	"DI-4" 4400+34	"DI-4" 4403+00	1774	
F201	"X-SA" 3005+67	"X-SA" 3008+08	1192	
		TOTAL:	8529	
		PAY ITEM QUANTITY:	8550	

203.2039.0000 – DETENTION POND

SHEET	STATION	OFFSET	REMARKS
GD1	"OM-3" 2306+60	LT	"SW-OM"
GD2	"OM-4" 2410+00	LT	"NW-OM"
GD3	"SA-3" 3317+45	LT	"SW-SA"
GD5	"BD-3" 5301+30	RT	"NE-SA"
	TOTAL:	4	
	PAY ITEM QUANTITY:	4	

202.2022.0000 – REMOVAL OF FENCE

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F3	"S-SB-SP" 212+28	"S-SB-SP" 225+00	LT	1279	
F4	"S-NB-SP" 613+83	"S-NB-SP" 625+00	RT	1116	
F5	"S-SB-SP" 225+00	"S-SB-SP" 238+00	LT	1305	
	"S-NB-SP" 625+00	"S-NB-SP" 638+00	RT	1300	
F6	"S-SB-SP" 238+00	"ML" 357+78	LT	1202	
	"S-NB-SP" 638+00	"ML" 359+00	RT	1300	
F7	"ML" 360+78	"N-SB-SP" 502+00	LT	1104	
F8	"ML" 359+00	"N-NB-SP" 901+10	RT	1162	FENCE MOUNTED ON CONCRETE BARRIER
F9	"N-SB-SP" 502+00	"N-SB-SP" 509+68	LT	768	
F18	"BD-2" 5217+29	"BD-2" 5218+41	RT	123	
F19	"BD-2" 5226+50	"BD-2" 5231+36	RT	487	
F22	"BD-4" 5403+12	"BD-4" 5407+60	LT	448	
F32	"SA-2" 3205+21	"SA-2" 3211+50	RT	644	
F33	"SA-2" 3211+50	"SA-2" 3212+64	RT	114	
	"SA-2" 3214+47	"SA-2" 3218+00	RT	720	
F42	"DI-4" 4401+27	"DI-4" 4405+10	LT	378	
	"DI-4" 4409+69	"DI-4" 4410+00	RT	31	
F43	"DI-4" 4410+00	"DI-4" 4414+43	LT	452	
F105	"X-OM-WB" 2513+35	"X-OM-WB" 2514+00	LT	96	
F107	"X-OM-WB" 2514+00	"X-OM-WB" 2514+32	LT	32	
F201	"X-SA" 3008+99	"X-SA" 3010+00	LT	97	
	"X-SA" 3009+24	"X-SA" 3010+00	RT	85	
F203	"X-SA" 3010+00	"X-SA" 3012+10	LT	217	
	"X-SA" 3010+00	"X-SA" 3011+45	RT	214	
F205	"X-SA" 3015+81	"X-SA" 3020+00	RT	481	
F207	"X-SA" 3020+00	"X-SA" 3024+92	RT	574	
			TOTAL:	15729	
			PAY ITEM QUANTITY:	15800	

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D5	D24

406.0008.0000 – RUMBLE STRIPS, SHOULDERS

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (LF)	LENGTH (MI)	REMARKS
F1	"S-SB-SP" 200+69	"S-SB-SP" 208+94	LT	825	0.16	
	"S-SB-SP" 200+69	"S-SB-SP" 212+00	RT	1131	0.22	
F2	"S-NB-SP" 600+69	"S-NB-SP" 610+49	RT	980	0.19	
	"S-NB-SP" 600+69	"S-NB-SP" 612+00	LT	1131	0.22	
F3	"S-SB-SP" 212+00	"S-SB-SP" 225+00	RT	1300	0.25	
	"S-SB-SP" 214+27	"S-SB-SP" 225+00	LT	1072	0.21	
F4	"S-NB-SP" 612+00	"S-NB-SP" 625+00	LT	1300	0.25	
	"S-NB-SP" 616+43	"S-NB-SP" 625+00	RT	857	0.17	
F5	"S-SB-SP" 225+00	"S-SB-SP" 229+53	LT	453	0.09	
	"S-SB-SP" 225+00	"S-SB-SP" 238+00	RT	1300	0.25	
	"S-NB-SP" 625+00	"S-NB-SP" 631+99	RT	699	0.14	
	"S-NB-SP" 625+00	"S-NB-SP" 638+00	LT	1300	0.25	
F6	"S-SB-SP" 238+00	"ML" 359+00	RT	1300	0.25	
	"S-SB-SP" 241+27	"ML" 359+00	LT	973	0.19	
	"S-NB-SP" 638+00	"ML" 359+00	LT	1300	0.25	
	"S-NB-SP" 639+43	"ML" 359+00	RT	1157	0.22	
F7	"ML" 359+00	"ML" 359+46	LT	46	0.01	
	"ML" 359+00	"ML" 359+51	LT	51	0.01	
	"ML" 359+00	"ML" 359+57	RT	57	0.02	
	"ML" 359+00	"ML" 359+62	RT	62	0.02	
	"ML" 360+91	"N-SB-SP" 502+00	LT	1059	0.21	
	"ML" 360+96	"N-SB-SP" 502+00	RT	1054	0.20	
F8	"ML" 361+02	"N-NB-SP" 902+00	LT	1048	0.20	
	"ML" 361+08	"ML" 367+88	RT	681	0.13	
F9	"N-SB-SP" 502+00	"N-SB-SP" 507+23	LT	523	0.10	
	"N-SB-SP" 502+00	"N-SB-SP" 515+00	RT	1300	0.25	
	"N-SB-SP" 514+40	"N-SB-SP" 515+00	LT	60	0.02	
F10	"N-NB-SP" 902+00	"N-NB-SP" 915+00	LT	1300	0.25	
	"N-NB-SP" 903+02	"N-NB-SP" 913+80	RT	1077	0.21	
F11	"N-SB-SP" 515+00	"N-SB-SP" 516+44	LT	144	0.03	
	"N-SB-SP" 515+00	"N-SB-SP" 516+44	RT	144	0.03	
	"N-SB-SP" 517+42	"N-SB-SP" 528+00	LT	1058	0.21	
	"N-SB-SP" 517+42	"N-SB-SP" 528+00	RT	1058	0.21	
F12	"N-NB-SP" 915+00	"N-NB-SP" 916+44	LT	144	0.03	
	"N-NB-SP" 915+16	"N-NB-SP" 916+44	RT	128	0.03	
	"N-NB-SP" 917+42	"N-NB-SP" 924+50	RT	706	0.14	
	"N-NB-SP" 917+42	"N-NB-SP" 928+00	LT	1058	0.21	
F13	"N-SB-SP" 528+00	"N-SB-SP" 528+16	LT	16	0.01	
	"N-SB-SP" 528+00	"N-SB-SP" 533+50	RT	550	0.11	
	"N-SB-SP" 531+80	"N-SB-SP" 541+00	LT	922	0.18	
F14	"N-NB-SP" 928+00	"N-NB-SP" 935+55	LT	755	0.15	
	"N-NB-SP" 935+32	"N-NB-SP" 935+55	RT	23	0.01	
F15	"N-SB-SP" 541+00	"N-SB-SP" 542+37	LT	137	0.03	
				TOTAL:	6.32	
				PAY ITEM QUANTITY:	7.00	

507.0002.0000 – PEDESTRIAN RAILING

SHEET	ALIGNMENT	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F103	X-OM-WB	2507+93	21' LT	2510+00	21' LT	200	MOUNT ON CONCRETE BARRIER
	X-OM-EB	2607+93	21' RT	2610+00	21' RT	200	MOUNT ON CONCRETE BARRIER
F105	X-OM-WB	2510+00	21' LT	2511+54	21' LT	147	MOUNT ON CONCRETE BARRIER
	X-OM-EB	2610+00	21' RT	2611+53	21' RT	147	MOUNT ON CONCRETE BARRIER
					TOTAL:	694	
					PAY ITEM QUANTITY:	700	

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME 4/11/2022 9:36 AM | LAYOUT D5 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876329\00012_D05_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D6	D24

PIPE SUMMARY

SHEET	PIPE NO.	603.2032.0012	603.2032.0018	603.2032.0024	603.2032.0030	603.2032.0036	INLET				OUTLET				REMARKS
		12" HDPE (LF)	18" HDPE (LF)	24" HDPE (LF)	30" HDPE (LF)	36" HDPE (LF)	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	
F3	P017	0.0	0.0	67.6	0.0	0.0	"ML" 320+63.22	132.32' LT	146.00	1	S019	--	145.66		"NW-OM" OUTFALL
	P019	0.0	0.0	158.8	0.0	0.0	S019	--	145.60		EXISTING	--	145.00±		CONNECT TO EXISTING SD MANHOLE
	P020	0.0	0.0	16.1	0.0	0.0	"ML" 324+16.15	161.93' LT	148.00	1	S020	--	145.80		
	P021	0.0	0.0	146.1	0.0	0.0	EXISTING	--	144.70±		S020	--	144.00		CONNECT TO EXISTING SD MANHOLE
	P345	0.0	0.0	116.4	0.0	0.0	S345	--	150.00		"ML" 320+24.26	121.55' LT	149.00	1	OUTLET TO "NW-OM"
F4	P347	0.0	0.0	130.1	0.0	0.0	S347	--	148.70		S346	--	148.30		
	P348	0.0	0.0	198.0	0.0	0.0	S348	--	149.90		S347	--	148.90		
	P349	0.0	0.0	40.8	0.0	0.0	S349	--	150.30		S348	--	150.23		
F5	P092	0.0	0.0	183.0	0.0	0.0	"ML" 343+19.30	121.45' LT	146.37	1	S340	--	144.70		
	P340	0.0	0.0	191.5	0.0	0.0	S340	--	144.42		S336	--	142.98		
F6	P300	0.0	0.0	0.0	0.0	130.0	S300	--	139.20		S320	--	138.50		
	P320	0.0	0.0	0.0	0.0	131.1	S320	--	138.30		S315	--	137.60		
	P321	0.0	0.0	118.0	0.0	0.0	S321	--	144.00		S320	--	143.41		
	P324	0.0	0.0	199.0	0.0	0.0	S324	--	145.20		S321	--	144.20		
	P325	0.0	0.0	47.0	0.0	0.0	S325	--	145.70		S324	--	145.40		
	P326	0.0	0.0	49.1	0.0	0.0	S326	--	146.20		S325	--	145.90		
	P330	0.0	0.0	188.8	0.0	0.0	S330	--	140.50		EXISTING	--	139.02±		CONNECT TO EXISTING SD MANHOLE
	P336	0.0	0.0	196.6	0.0	0.0	S336	--	142.50		S330	--	141.00		
	P365	0.0	0.0	108.4	0.0	0.0	EXISTING	--	137.50±		EXISTING	--	136.50±		CONNECT TO EXISTING SD MANHOLE
	P370	0.0	0.0	118.5	0.0	0.0	EXISTING	--	134.70±		S315	--	133.50		CONNECT TO EXISTING SD MANHOLE
	P405	0.0	0.0	4.0	0.0	0.0	S405	--	146.85		"ML" 356+40.07	70.87' RT	146.84		RETAINING WALL PENETRATION
	P410	0.0	0.0	4.0	0.0	0.0	S410	--	143.26		"ML" 356+40.15	70.81' LT	143.25		RETAINING WALL PENETRATION
	P412	0.0	0.0	4.0	0.0	0.0	S412	--	144.26		"ML" 358+50.00	70.50' LT	144.25		RETAINING WALL PENETRATION
	P414	0.0	0.0	4.0	0.0	0.0	S414	--	140.50		"ML" 358+50.00	70.81' LT	140.49		RETAINING WALL PENETRATION
F8	P775	0.0	0.0	60.7	0.0	0.0	S775	--	160.00		S776	--	158.50		
	P776	0.0	0.0	169.0	0.0	0.0	S776	--	158.25		S781	--	155.25		
	P777	0.0	0.0	60.6	0.0	0.0	S777	--	160.00		S776	--	158.50		
	P780	0.0	0.0	60.7	0.0	0.0	S780	--	157.25		S781	--	155.50		
	P781	0.0	0.0	177.3	0.0	0.0	S781	--	155.00		S790	--	150.50		
	P782	0.0	0.0	60.6	0.0	0.0	S782	--	157.25		S781	--	155.50		
	P785	0.0	0.0	63.0	0.0	0.0	S785	--	152.75		S790	--	151.00		
	P790	0.0	0.0	60.7	0.0	0.0	S790	--	150.75		S795	--	150.00		
	P795	0.0	0.0	9.7	0.0	0.0	S795	--	145.91		"ML" 368+58.08	73.76' RT	145.90		RETAINING WALL PENETRATION
F10	P005	0.0	0.0	84.6	0.0	0.0	"ML" 375+58.29	5.28' LT	142.75	1	"ML" 375+65.21	68.96' RT	142.00	1	W/ PIPE ENCASEMENT
F13	P985	0.0	5.0	0.0	0.0	0.0	EXISTING	--	118.76±		EXISTING	--	118.76±		REMOVE INLET, CONNECT TO EXISTING STORM DRAIN
F14	P425	0.0	0.0	10.0	0.0	0.0	S425	--	113.45		"ML" 399+51.69	88.17' RT	113.45		CONNECT TO EXISTING CULVERT
F14	P450	0.0	0.0	9.5	0.0	0.0	"N-NB-SP" 930+80.00	78.62' RT	117.00	1	"N-NB-SP" 930+78.44	69.19' RT	115.30		CONNECT TO EXISTING CULVERT
F16	P002	0.0	0.0	97.9	0.0	0.0	"BD-1" 5104+67.99	24.09' LT	187.40	1	"BD-1" 5104+67.63	19.86' RT	186.00	1	
F17	P014	0.0	0.0	90.0	0.0	0.0	"BD-2" 5205+75.00	60.00' RT	153.46	1	"BD-2" 5206+71.00	59.86' RT	152.92	1	
	P016	0.0	0.0	90.0	0.0	0.0	"BD-2" 5207+81.00	59.05' RT	152.45	1	"BD-2" 5208+90.00	58.40' RT	151.90	1	
	P215	0.0	0.0	31.8	0.0	0.0	S215	--	155.72		"BD-2" 5204+08.00	50.00' RT	155.40	1	
	P225	0.0	33.2	0.0	0.0	0.0	S225	--	150.81		"BD-2" 5211+86.00	8.80' LT	150.40	1	W/ PIPE ENCASEMENT

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SUMMARY TABLES

DATE/TIME 4/11/2022 9:36 AM | LAYOUT D6 | DESIGNED JM | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D7	D24

PIPE SUMMARY

SHEET	PIPE NO.	603.2032.0012	603.2032.0018	603.2032.0024	603.2032.0030	603.2032.0036	INLET				OUTLET				REMARKS
		12" HDPE (LF)	18" HDPE (LF)	24" HDPE (LF)	30" HDPE (LF)	36" HDPE (LF)	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	
F18	P228	0.0	0.0	60.8	0.0	0.0	"BD-2" 5212+58.00	58.81' RT	150.25	1	"BD-2" 5212+58.50	10.30' LT	149.70	1	W/ PIPE ENCASEMENT
	P360	0.0	0.0	18.3	0.0	0.0	"BD-2" 5217+46.50	44.07' RT	157.37	1	S361	--	154.37		
	P361	0.0	0.0	42.2	0.0	0.0	S361	--	151.80		"BD-2" 5217+55.00	18.70' LT	151.66	1	
	P362	0.0	0.0	0.0	0.0	66.5	S362	--	154.00		"BD-2" 5220+00.00	26.00' LT	152.66	1	
F19	P234	0.0	0.0	46.5	0.0	0.0	"BD-2" 5229+20.00	25.65' LT	149.25	1	S235	--	149.00		
	P235	0.0	0.0	175.0	0.0	0.0	S235	--	148.75		S240	--	147.75		
	P239	0.0	0.0	0.0	0.0	27.8	"BD-2" 5231+36.00	42.23' RT	152.90	1	S240	--	151.50		
	P240	0.0	0.0	191.3	0.0	0.0	S240	--	147.50		S245	--	146.40		
	P245	0.0	0.0	194.2	0.0	0.0	S245	--	146.20		S250	--	144.20		
F20	P027	0.0	0.0	30.0	0.0	0.0	"BD-3" 5302+82.26	69.48' RT	141.70	1	S029	--	141.50		"NE-SA" OUTFALL
	P029	0.0	0.0	16.0	0.0	0.0	S029	--	138.90		S555	--	138.74		
	P068	28.0	0.0	0.0	0.0	0.0	EXISTING	--	141.00±		S710	--	140.96		CONNECT TO EXISTING SD MANHOLE
	P070	34.3	0.0	0.0	0.0	0.0	EXISTING	--	142.62±		S726	--	142.24		CONNECT TO EXISTING SD MANHOLE
	P550	0.0	51.6	0.0	0.0	0.0	S550	--	135.95		S555	--	135.76		
	P555	0.0	0.0	0.0	67.3	0.0	S555	--	136.95		S560	--	136.76		
	P705	0.0	0.0	45.5	0.0	0.0	S705	--	142.50		S710	--	142.25		
	P710	0.0	0.0	14.5	0.0	0.0	S710	--	142.10		S712	--	142.00		
	P712	0.0	0.0	93.7	0.0	0.0	S712	--	141.75		S720	--	141.30		
	P715	0.0	0.0	15.8	0.0	0.0	"BD-3" 5308+98.65	40.06' RT	144.00	1	S720	--	142.50		
	P720	0.0	0.0	96.6	0.0	0.0	S720	--	141.25		S726	--	140.25		
	P721	0.0	0.0	82.8	0.0	0.0	S721	--	140.25		S726	--	139.75		
	P725	0.0	0.0	15.1	0.0	0.0	S726	--	139.50		S728	--	139.35		
	P728	0.0	0.0	67.7	0.0	0.0	S728	--	139.25		S732	--	138.90		
	P732	0.0	0.0	74.7	0.0	0.0	S732	--	138.75		S735	--	138.25		
F21	P072	60.3	0.0	0.0	0.0	0.0	EXISTING	--	137.59±		S740	--	137.67		CONNECT TO EXISTING SD MANHOLE
	P730	0.0	0.0	23.0	0.0	0.0	"BD-3" 5311+48.54	41.62' RT	141.30	1	S735	--	140.00		
	P735	0.0	0.0	85.9	0.0	0.0	S735	--	138.00		S740	--	137.50		
F22	P980	0.0	119.2	0.0	0.0	0.0	S980	--	121.00		EXISTING	--	117.96±		CONNECT TO EXISTING SD MANHOLE
F24	P850	0.0	22.4	0.0	0.0	0.0	"HD-3"6311+37.00	39.37' LT	129.70	1	S850	--	127.75		
F24	P851	0.0	41.2	0.0	0.0	0.0	S850	--	127.50		"HD-3" 6311+36.00	24.17' RT	127.15		
F25	P030	0.0	74.1	0.0	0.0	0.0	"HD-4" 6402+55.74	37.86' LT	116.12	1	"HD-4" 6403+29.79	34.83' LT	115.84	1	
	P420	0.0	0.0	167.8	0.0	0.0	S420	--	114.52		S430	--	113.75		
	P429	0.0	0.0	15.1	0.0	0.0	"HD-4" 6404+19.78	33.08' LT	114.30	1	S430	--	113.50		
	P430	0.0	0.0	47.0	0.0	0.0	S430	--	113.50		EXISTING	--	113.00±		CONNECT TO EXISTING SD MANHOLE
F26	P211	0.0	0.0	47.1	0.0	0.0	"OM-1" 2108+97.78	23.12' LT	157.15	1	S212	--	156.30		
	P212	0.0	0.0	32.5	0.0	0.0	S212	--	156.25		"OM-1" 2108+96.60	51.28' RT	156.10	1	
F30	P008	0.0	0.0	91.8	0.0	0.0	"OM-4" 2404+48.94	39.75' RT	154.00	1	"OM-4" 2404+70.45	56.49' LT	153.15	1	
	P028	0.0	0.0	71.1	0.0	0.0	"OM-4" 2405+61.25	139.78' LT	152.40	1	"OM-4" 2406+02.08	80.95' LT	151.19	1	
F31	P044	0.0	0.0	79.4	0.0	0.0	"OM-4" 2411+93.26	183.06' LT	149.57	1	"OM-4" 2411+91.98	98.37' LT	147.68	1	OUTLET TO "NW-OM"
F32	P250	0.0	0.0	99.5	0.0	0.0	S250	--	144.00		S255	--	143.50		
	P255	0.0	0.0	193.6	0.0	0.0	S255	--	143.40		S280	--	142.20		

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SUMMARY TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D8	D24

PIPE SUMMARY

SHEET	PIPE NO.	603.2032.0012	603.2032.0018	603.2032.0024	603.2032.0030	603.2032.0036	INLET				OUTLET				REMARKS
		12" HDPE (LF)	18" HDPE (LF)	24" HDPE (LF)	30" HDPE (LF)	36" HDPE (LF)	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	
	P290	0.0	0.0	0.0	0.0	33.6	"SA-2" 3210+80.00	22.26' LT	146.56	1	S280	--	142.91		
F33	P280	0.0	0.0	138.6	0.0	0.0	S280	--	142.20		S300	--	141.30		
	P305	0.0	0.0	88.8	0.0	0.0	S305	--	140.10		S300	--	139.40		
	P310	0.0	0.0	15.1	0.0	0.0	S310	--	141.75		S305	--	141.65		
	P316	0.0	0.0	87.6	0.0	0.0	S316	--	140.50		S305	--	140.20		
F35	P024	0.0	0.0	64.7	0.0	0.0	"SA-3" 3316+00	27.35' LT	140.00	1	"SA-3" 3316+46.70	77.22' LT	136.87	1	
F36	P603	0.0	160.7	0.0	0.0	0.0	S603	--	133.75		S604	--	133.25		
	P604	0.0	0.0	166.9	0.0	0.0	S604	--	133.20		S610	--	132.70		
	P605	0.0	29.0	0.0	0.0	0.0	S605	--	133.85		S608	--	133.75		
	P608	0.0	0.0	21.2	0.0	0.0	S608	--	133.50		S610	--	133.35		
	P610	0.0	0.0	130.5	0.0	0.0	S610	--	132.65		S606	--	132.25		
	P655	0.0	0.0	31.7	0.0	0.0	"SA-4" 3403+01.00	27.20' RT	134.96	1	S608	--	133.55		
F38	P837	0.0	0.0	51.4	0.0	0.0	S837	--	118.38		EXISTING	--	117.66±		CONNECT TO EXISTING CURB INLET
F40	P740	0.0	0.0	0.0	156.6	0.0	S740	--	137.25		S745	--	135.75		
	P745	0.0	0.0	0.0	0.0	192.4	S745	--	135.50		S770	--	134.00		
	P770	0.0	0.0	0.0	0.0	196.5	S770	--	133.75		S765	--	132.25		
F41	P001	0.0	0.0	46.2	0.0	0.0	"DI-2" 4210+29.33	58.05' RT	129.75	1	S765	--	129.62		
	P760	0.0	0.0	194.5	0.0	0.0	S760	--	133.50		S765	--	132.50		
	P765	0.0	0.0	0.0	0.0	119.6	S765	--	128.98		"DI-2" 4211+40.35	62.21' LT	128.54	1	
F42	P950	0.0	0.0	185.0	0.0	0.0	S950	--	118.25		S951	--	117.00		
	P951	0.0	0.0	151.2	0.0	0.0	S951	--	116.90		S960	--	116.25		
	P954	0.0	0.0	17.3	0.0	0.0	"DI-4" 4406+37.75	34.58' LT	117.75	1	S951	--	117.17		
	P960	0.0	0.0	147.1	0.0	0.0	S960	--	116.00		S965	--	115.50		
	P970	0.0	0.0	0.0	0.0	38.5	"DI-4" 4409+30.00	23.35' RT	121.00	1	S965	--	119.75		
	P975	0.0	0.0	0.0	0.0	58.3	"DI-4" 4404+05.01	26.05' RT	121.50	1	S950	--	118.50		
F43	P965	0.0	0.0	147.5	0.0	0.0	S965	--	115.40		S420	--	114.77		
F101	P009	0.0	0.0	0.0	0.0	115.4	S009	--	154.10		S194	--	153.10		
	P180	0.0	35.1	0.0	0.0	0.0	S180	--	154.50		S189	--	154.00		
	P189	0.0	110.4	0.0	0.0	0.0	S189	--	153.50		S190	--	151.36		
	P190	0.0	0.0	40.7	0.0	0.0	S190	--	151.19		S195	--	150.40		
	P194	0.0	0.0	0.0	0.0	81.9	S194	--	153.00		S195	--	151.50		
	P195	0.0	0.0	0.0	0.0	92.7	S195	--	150.00		S196	--	149.50		
	P205	0.0	18.4	0.0	0.0	0.0	S205	--	157.50		EXISTING	--	157.20±		CONNECT TO EXISTING SD MANHOLE
F103	P007	0.0	0.0	0.0	0.0	72.1	"X-OM-EB" 2605+75.41	118.99' RT	154.50	1	S009	--	154.21		"SW-OM" OUTFALL
	P011	0.0	0.0	0.0	0.0	69.3	S175	--	155.21		"OM-3W" 2351+09.30	90.12' LT	155.00	1	"OUTLET TO "SW-OM"
	P080	0.0	0.0	29.2	0.0	0.0	"OM-3" 2307+99.61	49.49' RT	156.01	1	S160	--	155.80		
	P150	0.0	0.0	0.0	0.0	97.9	S150	--	155.95		S153	--	155.66		
	P153	0.0	0.0	0.0	0.0	50.9	S153	--	155.54		S175	--	155.30		
	P155	0.0	81.9	0.0	0.0	0.0	S155	--	157.10		S150	--	156.10		
	P160	0.0	0.0	56.1	0.0	0.0	S160	--	155.75		S153	--	155.54		
	P165	0.0	0.0	55.5	0.0	0.0	S165	--	156.05		S153	--	155.75		
	P170	0.0	0.0	63.1	0.0	0.0	S170	--	156.45		S165	--	156.10		

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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME 4/11/2022 9:36 AM | LAYOUT D8 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876329\00012_D08_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D9	D24

PIPE SUMMARY

SHEET	PIPE NO.	603.2032.0012	603.2032.0018	603.2032.0024	603.2032.0030	603.2032.0036	INLET				OUTLET				REMARKS
		12" HDPE (LF)	18" HDPE (LF)	24" HDPE (LF)	30" HDPE (LF)	36" HDPE (LF)	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	STA/STRUCTURE	OFFSET	ELEV (FT)	END SECTION	
	P173	0.0	0.0	42.1	0.0	0.0	S173	--	156.60		S170	--	156.47		
	P176	0.0	91.4	0.0	0.0	0.0	S176	--	156.95		S173	--	156.65		
	P177	0.0	96.8	0.0	0.0	0.0	S177	--	157.45		S173	--	157.15		
	P180	0.0	35.1	0.0	0.0	0.0	S180	--	154.50		S189	--	154.00		
	P189	0.0	110.4	0.0	0.0	0.0	S189	--	153.50		S190	--	151.35		
	P190	0.0	0.0	40.7	0.0	0.0	S190	--	151.20		S195	--	150.35		
	P191	0.0	0.0	75.1	0.0	0.0	S191	--	155.70		S175	--	155.30		
	P192	0.0	60.7	0.0	0.0	0.0	S192	--	156.60		S191	--	155.75		
F105	P056	0.0	0.0	21.7	0.0	0.0	"OM-2E" 2250+30.00	39.00' RT	165.50	1	S121	--	165.18		
	P078	0.0	0.0	92.6	0.0	0.0	S078	--	159.50		S145	--	158.75		
	P115	0.0	0.0	0.0	77.7	0.0	S115	--	162.25		S135	--	161.00		
	P121	0.0	0.0	86.0	0.0	0.0	S121	--	161.00		S078	--	159.68		
	P125	0.0	0.0	39.3	0.0	0.0	S125	--	161.50		S135	--	160.75		
	P130	0.0	0.0	72.9	0.0	0.0	S130	--	165.00		S125	--	163.50		
	P132	0.0	92.2	0.0	0.0	0.0	S133	--	166.50		S130	--	165.50		
	P135	0.0	0.0	0.0	0.0	136.4	S135	--	160.50		S145	--	160.00		
	P140	0.0	31.2	0.0	0.0	0.0	S140	--	161.50		S145	--	160.50		
	P145	0.0	0.0	0.0	0.0	246.7	S145	--	158.50		S150	--	156.10		
F107	P104	0.0	0.0	0.0	115.0	0.0	EXISTING	--	172.00±		S115	--	169.00		CONNECT TO EXISTING SD MANHOLE
F201	P037	16.1	0.0	0.0	0.0	0.0	"X-SA" 3009+74.74	86.23' RT	129.90	1	"X-SA" 3009+61.09	85.69' RT	129.50	1	
	P038	0.0	0.0	17.9	0.0	0.0	"X-SA" 3008+69.16	67.99' RT	127.00	1	S039	--	126.95		"SW-SA" OUTFALL
	P039	0.0	0.0	25.0	0.0	0.0	S039	--	125.26		S665	--	124.90		
	P645	0.0	55.1	0.0	0.0	0.0	S645	--	128.65		"X-SA" 3009+10.92	70.01' RT	128.00	1	OUTLET TO "SW-SA"
	P660	0.0	54.8	0.0	0.0	0.0	S660	--	129.20		S645	--	128.75		
	P665	0.0	0.0	37.1	0.0	0.0	S665	--	118.69		EXISTING	--	118.50±		CONNECT TO EXISTING FIELD INLET
	P670	0.0	41.9	0.0	0.0	0.0	S670	--	124.50		S665	--	123.75		
F203	P035	19.9	0.0	0.0	0.0	0.0	"X-SA" 3011+27.44	113.44' RT	134.15	1	"X-SA" 3011+09.97	104.18' RT	133.75	1	
	P036	19.8	0.0	0.0	0.0	0.0	"X-SA" 3010+35.35	89.13' RT	131.67	1	"X-SA" 3010+18.48	87.47' RT	131.15	1	
	P066	0.0	0.0	39.6	0.0	0.0	"X-SA" 3013+06.00	95.08' RT	138.08	1	S585	--	134.80		
	P094	0.0	0.0	0.0	86.6	0.0	S585	--	134.75		"X-SA" 3011+54.51	95.84' RT	134.49	1	OUTLET TO "SW-SA"
	P577	0.0	0.0	0.0	107.3	0.0	S577	--	135.80		S582	--	135.45		
	P582	0.0	0.0	0.0	125.6	0.0	S582	--	135.40		S585	--	135.00		
	P590	0.0	0.0	70.1	0.0	0.0	S590	--	133.30		S635	--	132.25		
	P595	0.0	45.0	0.0	0.0	0.0	S595	--	136.29		"X-SA" 3012+32.07	121.72' RT	136.00	1	OUTLET TO "SW-SA"
	P601	0.0	44.9	0.0	0.0	0.0	S601	--	134.80		S606	--	134.50		
	P606	0.0	0.0	96.0	0.0	0.0	S606	--	132.20		S635	--	131.90		
	P631	0.0	0.0	61.4	0.0	0.0	S631	--	133.60		"X-SA" 3011+65.00	62.92' RT	133.30	1	OUTLET TO "SW-SA"
	P632	0.0	0.0	30.9	0.0	0.0	S632	--	133.80		S631	--	133.65		
	P635	0.0	0.0	93.5	0.0	0.0	S635	--	131.85		S636	--	131.55		
	P636	0.0	0.0	34.4	0.0	0.0	S636	--	131.50		S639	–	131.40		
	P639	0.0	0.0	21.1	0.0	0.0	S639	--	131.35		S640	–	131.30		
	P640	0.0	0.0	75.8	0.0	0.0	S640	--	131.25		"X-SA" 3010+17.00	72.46' RT	131.00	1	OUTLET TO "SW-SA"
F205	P058	0.0	0.0	24.7	0.0	0.0	"X-SA" 3016+38.49	111.44' RT	142.50	1	S565	--	139.90		
	P526	0.0	0.0	127.4	0.0	0.0	S526	--	148.10		S530	--	144.70		
	P530	0.0	0.0	56.6	0.0	0.0	S530	--	144.60		"X-SA" 3017+67.29	59.24' LT	144.00	1	OUTLET TO "NE-SA"
	P533	0.0	0.0	22.1	0.0	0.0	S533	--	145.50		S530	--	144.75		
	P535	0.0	0.0	128.4	0.0	0.0	S535	--	143.10		S565	--	140.60		

JACOBS ENGINEERING GROUP, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME 4/11/2022 9:37 AM | LAYOUT D9 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876329\00012_D09_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D10	D24

PIPE SUMMARY

SHEET	PIPE NO.	603.2032.0012 12" HDPE (LF)	603.2032.0018 18" HDPE (LF)	603.2032.0024 24" HDPE (LF)	603.2032.0030 30" HDPE (LF)	603.2032.0036 36" HDPE (LF)	INLET STA/STRUCTURE	INLET OFFSET	INLET ELEV (FT)	INLET END SECTION	OUTLET STA/STRUCTURE	OUTLET OFFSET	OUTLET ELEV (FT)	OUTLET END SECTION	REMARKS
	P540	0.0	0.0	37.5	0.0	0.0	S540	--	143.80		S535	--	143.30		
	P560	0.0	0.0	0.0	123.3	0.0	S560	--	136.86		S568	--	136.40		
	P565	0.0	0.0	77.0	0.0	0.0	S565	--	138.60		S567	--	137.90		
	P567	0.0	0.0	34.7	0.0	0.0	S567	--	137.70		S577	--	137.40		
	P568	0.0	0.0	0.0	62.8	0.0	S568	--	136.30		S580	--	136.10		
	P570	0.0	0.0	39.4	0.0	0.0	S570	--	139.00		S565	--	138.80		
	P580	0.0	0.0	0.0	197.0	0.0	S580	--	136.00		S577	--	135.85		
	P650	0.0	0.0	65.8	0.0	0.0	"X-SA" 3015+42.00	121.86' RT	142.19	1	S567	--	138.10		
F207	P500	0.0	0.0	17.5	0.0	0.0	S500	--	157.75		S520	--	157.50		
	P501	0.0	0.0	23.8	0.0	0.0	S501	--	152.30		S505	--	151.80		
	P505	0.0	0.0	28.0	0.0	0.0	S505	--	151.75		S510	--	151.35		
	P510	0.0	0.0	34.8	0.0	0.0	S510	--	151.25		S524	--	151.10		
	P520	0.0	0.0	154.8	0.0	0.0	S520	--	157.25		S522	--	154.75		
	P522	0.0	0.0	85.9	0.0	0.0	S522	--	154.50		S524	--	152.00		
	P524	0.0	0.0	178.0	0.0	0.0	S524	--	151.00		S526	--	148.30		
	TOTAL	178.4	1541.5	9799.9	1119.2	1957.5				39				27	
	PAY ITEM QUANTITY:	179.0	1550.0	9800.0	1150.0	2000.0				39.0				27.0	

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D11	D24

STRUCTURE SUMMARY

SHEET	STRUCTURE NO.	604.0001.0001	604.0001.0002	604.0005.000A	604.2012.0000	CASTING					REMARKS
		MHI/MOA MH TY A (EA)	MHII/MOA MH TY B (EA)	TYPE A (EA)	OUTLET STRUCTURE (EA)	STATION	OFFSET	TOP ELEV (FT)	HEIGHT	TYPE	
F3	S019	0	0	0	1	"ML" 321+13.23	176.02' LT	158.17	14.3	SOLID LID	
	S020	1	0	0	0	"ML" 324+21.50	144.72' LT	150.50	8.6	SOLID LID	CONNECT TO EXISTING PIPE
	S345	0	1	0	0	"ML" 320+41.42	2.04' LT	156.58	8.6	FIELD INLET	
F4	S346	0	1	0	0	"ML" 325+67.00	--	155.50	9.2	FIELD INLET	CONNECT TO EXISTING PIPE
	S347	0	0	1	0	"ML" 327+00.00	--	155.18	8.5	FIELD INLET	
	S348	0	0	1	0	"ML" 329+00.00	--	154.75	6.8	FIELD INLET	
	S349	0	0	1	0	"ML" 329+44.00	--	154.65	6.3	FIELD INLET	
F5	S340	1	0	0	0	"ML" 345+04.23	123.15' LT	153.30	10.9	SOLID LID	
F6	S315	0	1	0	0	"ML" 353+24.00	137.13' LT	142.05	6.5	FIELD INLET	CONNECT TO EXISTING PIPE
	S320	0	1	0	0	"ML" 353+23.00	--	153.50	17.2	FIELD INLET	
	S321	0	0	1	0	"ML" 352+00.00	--	151.73	9.7	FIELD INLET	
	S324	0	0	1	0	"ML" 350+00.00	--	150.31	7.1	FIELD INLET	
	S325	0	0	1	0	"ML" 349+50.00	--	150.24	6.5	FIELD INLET	
	S326	0	0	1	0	"ML" 349+00.00	--	150.28	6.1	FIELD INLET	
	S330	1	0	0	0	"ML" 349+00.00	110.87' LT	145.10	6.6	FIELD INLET	
	S336	1	0	0	0	"ML" 346+99.71	121.61' LT	149.07	8.6	SOLID LID	
	S405	0	0	1	0	"ML" 356+39.63	67.87' RT	162.09	17.2	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S410	0	0	1	0	"ML" 356+39.91	66.96' LT	162.09	21.9	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S412	0	0	1	0	"ML" 358+50.00	66.63' LT	165.67	23.4	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S414	0	0	1	0	"ML" 358+50.00	66.69' LT	165.68	27.2	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
F8	S775	0	0	1	0	"ML" 365+00.00	66.69' LT	165.88	7.9	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S776	0	1	0	0	"ML" 365+00.00	--	163.95	7.7	FIELD INLET	
	S777	0	0	1	0	"ML" 365+00.00	66.63' RT	165.88	7.9	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S780	0	0	1	0	"ML" 366+75.00	66.69' LT	163.16	7.9	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S781	0	1	0	0	"ML" 366+75.00	--	161.23	8.2	FIELD INLET	
	S782	0	0	1	0	"ML" 366+75.00	66.63' RT	163.16	7.9	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S785	0	0	1	0	"ML" 368+58.50	69.00' LT	159.00	8.3	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
	S790	0	1	0	0	"ML" 368+58.29	--	157.13	8.4	FIELD INLET	
	S795	0	0	1	0	"ML" 368+58.08	69.76' RT	159.00	15.0	SP-WALL INLET	INLET DEPRESSION, SEE SHEET ED2
F14	S450	0	0	1	0	"ML" 399+51.83	95.48' RT	117.50	6.1	FIELD INLET	
F17	S215	0	0	1	0	"BD-2" 5204+09.94	18.00 RT	159.27	5.6	CURB INLET	
	S225	0	0	1	0	"BD-2" 5211+85.59	27.04' RT	154.15	5.3	CURB INLET	
F18	S361	1	0	0	0	"BD-2" 5217+55.00	26.00' RT	159.53	9.7	HIGH CAPACITY CURB INLET	
F18	S362	0	1	0	0	"BD-2" 5220+00.00	44.90' RT	162.40	10.4	FIELD INLET	
F19	S235	1	0	0	0	"BD-2" 5229+56.00	20.75' RT	160.00	12.0	CURB INLET	
	S240	1	0	0	0	"BD-2" 5231+36.00	17.50' RT	157.41	10.5	CURB INLET	
	S245	1	0	0	0	"BD-2" 5233+32.00	16.00' RT	152.47	8.3	CURB INLET	
F20	S029	0	0	0	1	"BD-3" 5302+68.10	40.69' RT	144.96	7.5	SOLID LID	
	S550	0	1	0	0	"BD-3" 5301+84.00	27.28' RT	143.44	8.4	CURB INLET	MOA MH
	S555	0	1	0	0	"BD-3" 5302+50.63	25.56' RT	144.21	8.8	CURB INLET	MOA MH
	S560	0	1	0	0	"BD-3" 5302+40.84	14.90' LT	141.50	6.7	FIELD INLET	
	S705	0	0	1	0	"BD-3" 5307+51.40	44.25' RT	146.17	7.2	FIELD INLET	
	S710	1	0	0	0	"BD-3" 5307+91.00	72.20' RT	147.60	8.8	CURB INLET	
	S712	1	0	0	0	"BD-3" 5308+13.00	72.03' RT	147.75	9.3	CURB INLET	
	S720	1	0	0	0	"BD-3" 5309+02.40	25.00' RT	147.27	9.6	CURB INLET	
	S721	0	0	1	0	"BD-3" 5309+91.84	10.20' LT	143.75	6.2	FIELD INLET	
	S726	1	0	0	0	"BD-3" 5309+91.00	76.68' RT	145.33	8.6	CURB INLET	
	S728	1	0	0	0	"BD-3" 5310+11.00	69.81' RT	145.30	9.0	CURB INLET	
	S732	0	1	0	0	"BD-3" 5310+68.00	22.83' RT	146.11	9.4	CURB INLET	
	S735	1	0	0	0	"BD-3" 5311+48.50	19.50' RT	145.60	10.3	CURB INLET	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SUMMARY TABLES

FILE C:\PW_WORKDIR\DEN001\RK053776\D0876329\00012_D11_SUM.DWG
DATE/TIME 4/11/2022 9:37 AM
LAYOUT D11
DESIGNED JM
CHECKED MR
DRAFTED RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D12	D24

STRUCTURE SUMMARY

SHEET	STRUCTURE NO.	604.0001.0001	604.0001.0002	604.0005.000A	604.2012.0000	CASTING					REMARKS
		MHI/MOA MH TY A (EA)	MHII/MOA MH TY B (EA)	TYPE A (EA)	OUTLET STRUCTURE (EA)	STATION	OFFSET	TOP ELEV (FT)	HEIGHT	TYPE	
F21	S735	1	0	0	0	"BD-3" 5311+48.50	19.50' RT	145.60	10.3	CURB INLET	
	S740	0	1	0	0	"BD-3" 5312+50.00	17.28' RT	146.12	10.9	CURB INLET	
F22	S980	1	0	0	0	"BD-4" 5403+90.45	16.00' RT	126.26	7.3	HIGH CAPACITY CURB INLET	
F24	S850	0	0	1	0	"HD-3" 6311+36.16	16.80' LT	130.82	5.3	CURB INLET	
F25	S420	1	0	0	0	"HD-4" 6402+45.00	15.92' LT	122.51	10.0	HIGH CAPACITY CURB INLET	
	S430	1	0	0	0	"HD-4" 6404+16.59	16.00' LT	118.29	6.8	HIGH CAPACITY CURB INLET	
F26	S212	0	0	1	0	"OM-1" 2108+97.90	20.66' RT	159.80	5.6	CURB INLET	
F32	S250	1	0	0	0	"SA-2" 3207+77.68	25.96' RT	150.94	8.9	CURB INLET	
	S255	0	1	0	0	"SA-2" 3208+81.92	19.57' RT	151.63	10.2	CURB INLET	
	S280	0	1	0	0	"SA-2" 3210+80.63	14.37' RT	150.29	10.1	CURB INLET	
F33	S300	0	1	0	0	"SA-2" 3212+25.00	16.00' RT	149.04	11.8	CURB INLET	
	S305	1	0	0	0	"SA-2" 3213+19.38	16.00' RT	147.48	9.4	CURB INLET	
	S310	0	0	1	0	"SA-2" 3213+19.64	35.56' RT	145.45	5.7	FIELD INLET	
	S316	1	0	0	0	"SA-2" 3214+13.14	16.00' RT	146.87	8.4	CURB INLET	
F36	S603	0	1	0	0	"SA-4" 3406+33.00	16.00' LT	138.15	6.4	CURB INLET	MOA MH
	S604	0	1	0	0	"SA-4" 3404+65.00	17.42' LT	138.50	7.3	CURB INLET	MOA MH
	S605	0	1	0	0	"SA-4" 3403+37.02	8.60' LT	138.13	6.3	CURB INLET	MOA MH
	S608	0	1	0	0	"SA-4" 3403+01.00	27.20' RT	139.05	7.5	SOLID LID	MOA MH
	S610	0	1	0	0	"SA-4" 3403+00.00	35.05' LT	139.70	8.9	CURB INLET	MOA MH
F38	S837	1	0	0	0	"DI-1" 4102+40.45	16.00' RT	124.41	8.0	CURB INLET	
F40	S745	0	1	0	0	"DI-2" 4206+41.39	24.64' RT	143.01	9.5	CURB INLET	
	S770	0	1	0	0	"DI-2" 4208+40.00	16.00' RT	140.48	8.7	CURB INLET	
F41	S760	1	0	0	0	"DI-2" 4211+37.58	16.05' RT	138.09	9.1	CURB INLET	
	S765	0	1	0	0	"DI-2" 4210+50.00	16.00' RT	139.28	12.3	CURB INLET	
F42	S950	0	1	0	0	"DI-4" 4404+39.64	24.66' LT	124.54	8.0	CURB INLET	
	S951	1	0	0	0	"DI-4" 4406+32.95	16.00' LT	123.16	8.3	CURB INLET	
	S960	1	0	0	0	"DI-4" 4407+88.98	15.95' LT	124.34	10.3	CURB INLET	
	S965	0	1	0	0	"DI-4" 4409+40.00	16.85' LT	125.60	12.2	CURB INLET	
F101	S180	1	0	0	0	"X-OM-EB" 2605+00.22	28.00' LT	161.21	8.7	CURB INLET	
	S189	0	1	0	0	"X-OM-WB" 2504+66.54	24.67' RT	160.87	9.4	CURB INLET	
	S190	0	1	0	0	"X-OM-WB" 2503+51.10	39.22' RT	160.28	11.1	CURB INLET	
	S194	0	1	0	0	"X-OM-EB" 2604+20.00	18.00' RT	160.96	10.0	CURB INLET	
	S195	0	1	0	0	"X-OM-EB" 2603+31.00	18.00' RT	159.95	12.0	CURB INLET	
	S196	0	1	0	0	"X-OM-EB" 2602+32.65	7.54' RT	160.13	13.1	SOLID LID	CONNECT TO EXISTING PIPE
	S205	1	0	0	0	"X-OM-WB" 2502+53.08	30.66' LT	159.37	3.9	CURB INLET	
F103	S009	0	0	0	1	"X-OM-EB" 2605+33.39	65.67' RT	163.50	11.4	SOLID LID	
	S150	0	1	0	0	"X-OM-WB" 2508+32.30	28.49' LT	162.50	8.6	FIELD INLET	
	S153	0	1	0	0	"X-OM-WB" 2507+83.00	61.61' RT	163.57	9.9	FIELD INLET	
	S155	1	0	0	0	"X-OM-EB" 2608+61.37	32.00' LT	162.67	7.6	CURB INLET	
	S160	1	0	0	0	"OM-3" 2308+10.45	18.63' RT	162.00	8.3	CURB INLET	
	S165	1	0	0	0	"X-OM-WB" 2507+42.04	18.00' RT	162.26	8.2	CURB INLET	
	S170	1	0	0	0	"X-OM-WB" 2507+17.68	44.53' LT	162.46	8.0	CURB INLET	
	S173	0	1	0	0	"X-OM-EB" 2506+84.00	75.85' LT	162.75	15.3	SOLID LID	
	S175	0	1	0	0	"OM-3W" 2351+37.54	14.30' LT	162.53	9.3	CURB INLET	
	S176	1	0	0	0	"OM-4" 2401+44.57	2.76' LT	161.10	6.2	CURB INLET	
	S177	0	0	1	0	"OM-4W" 2451+03.09	76.46' LT	160.45	5.0	FIELD INLET	

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876329\00012_D12_SUM.DWG | DATE/TIME | 4/11/2022 9:37 AM | LAYOUT | D12 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D13	D24

STRUCTURE SUMMARY

SHEET	STRUCTURE NO.	604.0001.0001	604.0001.0002	604.0005.000A	604.2012.0000	CASTING					REMARKS
		MHI/MOA MH TY A (EA)	MHII/MOA MH TY B (EA)	TYPE A (EA)	OUTLET STRUCTURE (EA)	STATION	OFFSET	TOP ELEV (FT)	HEIGHT	TYPE	
	S191	1	0	0	0	"OM-3W" 2352+24.84	17.35' LT	162.00	8.3	CURB INLET	
	S192	1	0	0	0	"X-OM-EB" 2605+78.00	18.75' RT	161.99	7.4	CURB INLET	
F105	S078	1	0	0	0	"X-OM-EB" 2611+80.21	133.98' RT	165.50	8.0	FIELD INLET	
	S115	0	1	0	0	"X-OM-EB" 2613+25.07	20.08' RT	176.27	16.0	HIGH CAPACITY CURB INLET	
	S121	1	0	0	0	"OM-2E" 2250+30.00	17.50' RT	171.85	12.9	CURB INLET	
	S125	1	0	0	0	"X-OM-WB" 2512+48.83	21.00' LT	173.17	13.7	HIGH CAPACITY CURB INLET	
	S130	1	0	0	0	"OM-1E" 2153+44.07	12.50' RT	171.26	8.3	HIGH CAPACITY CURB INLET	
	S133	1	0	0	0	"OM-1E" 2152+37.79	12.50' RT	176.05	11.6	HIGH CAPACITY CURB INLET	
	S135	0	1	0	0	"X-OM-WB" 2512+30.72	19.36' RT	173.04	14.5	HIGH CAPACITY CURB INLET	
	S140	1	0	0	0	"X-OM-EB" 2610+94.22	18.98' RT	167.62	8.1	HIGH CAPACITY CURB INLET	
	S145	0	1	0	0	"X-OM-WB" 2510+89.61	18.45' LT	167.32	10.8	HIGH CAPACITY CURB INLET	
F201	S039	0	0	0	1	"X-SA" 3008+64.65	47.51' RT	131.76	8.5	SOLID LID	
	S645	0	1	0	0	"X-SA" 3009+57.83	36.55' RT	133.13	6.7	HIGH CAPACITY CURB INLET	MOA MH
	S660	0	1	0	0	"X-SA" 3009+60.57	24.13' LT	133.40	6.2	HIGH CAPACITY CURB INLET	MOA MH
	S665	0	1	0	0	"X-SA" 3008+44.23	24.20' RT	130.33	13.6	HIGH CAPACITY CURB INLET	MOA MH
	S670	0	1	0	0	"X-SA" 3008+39.45	23.41' LT	130.00	7.5	HIGH CAPACITY CURB INLET	MOA MH
F203	S582	0	1	0	0	"X-SA" 3013+96.11	22.27' RT	141.90	8.5	CURB INLET	MOA MH
	S585	0	1	0	0	"X-SA" 3012+79.20	68.15' RT	140.15	7.3	CURB INLET	MOA MH
	S590	0	1	0	0	"X-SA" 3012+80.74	77.51' LT	140.23	8.9	CURB INLET	MOA MH
	S595	0	1	0	0	"X-SA" 3012+77.78	132.65' RT	139.30	5.0	CURB INLET	
	S601	0	1	0	0	"X-SA" 3012+72.00	161.72' LT	139.09	6.3	CURB INLET	MOA MH
	S606	0	1	0	0	"X-SA" 3012+24.06	149.83' LT	138.78	8.6	CURB INLET	MOA MH
	S631	0	1	0	0	"X-SA" 3011+68.00	63.67' RT	138.40	8.0	CURB INLET	MOA MH
	S632	0	1	0	0	"X-SA" 3011+80.00	28.58' RT	138.96	7.2	CURB INLET	MOA MH
	S635	0	1	0	0	"X-SA" 3011+90.00	56.66' LT	139.27	9.4	CURB INLET	MOA MH
	S636	0	1	0	0	"X-SA" 3011+05.00	19.57' LT	137.25	7.7	HIGH CAPACITY CURB INLET	MOA MH
	S639	0	1	0	0	"X-SA" 3010+95.00	19.12' RT	137.05	7.7	HIGH CAPACITY CURB INLET	MOA MH
	S640	0	1	0	0	"X-SA" 3010+89.00	46.87' RT	136.37	7.4	HIGH CAPACITY CURB INLET	MOA MH
F205	S526	0	1	0	0	"X-SA" 3019+32.25	3.44' LT	153.18	4.4	CURB INLET	MOA MH
	S530	0	1	0	0	"X-SA" 3018+00.79	4.95' LT	149.30	6.7	HIGH CAPACITY CURB INLET	MOA MH
	S533	0	1	0	0	"X-SA" 3018+09.19	21.92' RT	148.43	4.9	HIGH CAPACITY CURB INLET	MOA MH
	S535	0	1	0	0	"X-SA" 3017+19.56	22.88' RT	147.54	6.2	HIGH CAPACITY CURB INLET	MOA MH
	S540	0	1	0	0	"X-SA" 3017+23.07	20.47' LT	148.02	6.2	CURB INLET	MOA MH
	S565	0	1	0	0	"X-SA" 3016+16.85	97.86' RT	144.83	8.0	HIGH CAPACITY CURB INLET	MOA MH
	S567	0	1	0	0	"X-SA" 3015+46.56	53.22' RT	144.32	8.4	CURB INLET	MOA MH
	S568	0	1	0	0	"X-SA" 3015+56.64	66.78' LT	144.45	10.1	CURB INLET	MOA MH
	S570	0	1	0	0	"X-SA" 3015+94.18	137.34' RT	143.87	6.9	CURB INLET	MOA MH
	S577	0	1	0	0	"X-SA" 3015+12.00	31.60' RT	143.65	9.8	CURB INLET	MOA MH
	S580	0	1	0	0	"X-SA" 3015+40.00	0.00' LT	144.64	10.5	SOLID LID	MOA MH
F207	S500	0	1	0	0	"X-SA" 3023+73.12	20.58' RT	162.59	6.8	CURB INLET	MOA MH
	S501	0	1	0	0	"X-SA" 3020+53.83	49.03' LT	156.64	6.3	HIGH CAPACITY CURB INLET	MOA MH
	S505	0	1	0	0	"X-SA" 3020+86.51	58.16'LT	156.90	7.1	CURB INLET	MOA MH
	S510	0	1	0	0	"X-SA" 3021+15.00	20.50' LT	157.15	7.8	CURB INLET	MOA MH
	S520	0	1	0	0	"X-SA" 3023+73.12	0.00' RT	162.83	7.3	SOLID LID	MOA MH
	S522	0	1	0	0	"X-SA" 3022+05.00	0.00' RT	159.62	6.9	SOLID LID	MOA MH
	S524	0	1	0	0	"X-SA" 3021+15.00	0.00' RT	157.85	8.8	SOLID LID	MOA MH
	TOTAL	40	72	26	4						
	PAY ITEM QUANTITY:	40	72	26	4						

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D14	D24

604.0003.0000 – RECONSTRUCT EXISTING MANHOLE

SHEET	STATION	OFFSET	REMARKS
F3	"ML" 322+74	159' LT	STORM DRAIN MANHOLE
F6	"ML" 350+92	124' LT	STORM DRAIN MANHOLE
	"ML" 352+05	130' LT	STORM DRAIN MANHOLE
F18	"BD–2" 5216+82	60' RT	RECONSTRUCT SS MANHOLE. EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED.
F20	"BD–3" 5303+85	44' RT	EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED.
	"BD–3" 5307+85	77' RT	STORM DRAIN MANHOLE
	"BD–3" 5309+83	79' RT	STORM DRAIN MANHOLE
F21	"BD–3" 5312+07	57' RT	RECONSTRUCT EXISTING SS MANHOLE, NEW CONE SECTION INSTALLED.
	"BD–3" 5312+95	55' RT	EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED.
	"BD–3" 5313+15	58' RT	RECONSTRUCT SS MANHOLE. EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED.
F22	"BD–4" 5401+89	20' RT	STORM DRAIN MANHOLE
F23	"SA–4" 3413+35	17' LT	RECONSTRUCT SS MANHOLE. EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED, ROTATE CONE AND LID OUTSIDE OF ROADWAY GUTTER.
F26	"X–OM–EB" 2613+00	42' RT	RECONSTRUCT EXISTING MANHOLE, NEW CONE SECTION INSTALLED.
F37	"SA–4" 3413+35	17' LT	EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED, ROTATE CONE AND LID OUTSIDE OF ROADWAY GUTTER.
F38	"DI–1" 4102+96	16' RT	STORM DRAIN MANHOLE
F205	"X–SA" 3015+94	21' RT	RECONSTRUCT EXISTING SS MANHOLE, NEW CONE SECTION INSTALLED.
U9	"X–SA" 3017+71	49' RT	RECONSTRUCT EXISTING SS MANHOLE, EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED.
	"X–SA" 3017+78	31' RT	RECONSTRUCT SS MANHOLE. EXISTING BASE LEFT–IN–PLACE, NEW CONE AND BARREL SECTIONS INSTALLED, ROTATE CONE AND LID OUTSIDE OF PEDESTRIAN RAMP.
	TOTAL:	18	
	PAY ITEM QUANTITY:	18	

604.0004.0000 – ADJUST EXISTING MANHOLE

SHEET	STATION	OFFSET	REMARKS
F3	"BD–2" 5208+28	147' RT	ADJUST EXISTING SS MANHOLE
F20	"BD–3" 5307+86	77' RT	STORM DRAIN MANHOLE
	"BD–3" 5309+95	58' RT	ADJUST EXISTING SS MANHOLE
F21	"BD–3" 5312+18	84' RT	STORM DRAIN MANHOLE
F25	"HD–4" 6404+73	57' LT	STORM DRAIN MANHOLE
	"HD–4" 6404+75	34' LT	STORM DRAIN MANHOLE
F35	"X–SA" 3010+63	155' RT	ADJUST EXISTING SS MANHOLE
F38	"DI–1" 4102+96	23' LT	STORM DRAIN MANHOLE
F42	"DI–4" 4400+56	78' LT	STORM DRAIN MANHOLE
F101	"X–OM–EB" 2602+76	45' RT	STORM DRAIN MANHOLE
F105	"X–OM–EB" 2613+00	42' RT	ADJUST EXISTING SS MANHOLE
F107	"X–OM–WB" 2514+67	26' LT	STORM DRAIN MANHOLE
	"X–OM–EB" 2614+41	13' RT	STORM DRAIN MANHOLE
F201	"X–SA" 3008+25	60' RT	STORM DRAIN MANHOLE
F207	"X–SA" 3020+48	37' RT	ADJUST EXISTING SS MANHOLE
	"X–SA" 3023+81	10' LT	ADJUST EXISTING SS MANHOLE
	TOTAL:	16	
	PAY ITEM QUANTITY:	16	

604.0009.0000 – RECONSTRUCT MANHOLE TOP SECTION

SHEET	STATION	OFFSET	REMARKS
U5	"W1" 0+54.36	–	RECONSTRUCT EXISTING MANHOLE TOP, 48" DIAMETER WATER VALVE VAULT ACCESS MANHOLE CONE AND BARREL SECTIONS AS REQUIRED. EXISTING 96" DIAMETER VALVE STRUCTURE LEFT–IN–PLACE.
	TOTAL:	1	
	PAY ITEM QUANTITY:	1	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876329\00012_D14_SUM.DWG | DATE/TIME | 4/11/2022 9:38 AM | LAYOUT | D14 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D15	D24

TRAFFIC BARRIER AND END TREATMENT SUMMARY

SHEET	STATION FROM	STATION TO	OFFSET	507.0004.0000 CONCRETE BRIDGE (FT)	606.0001.0000 W-BEAM GUARDRAIL (FT)	POST INSTALLATION CASE*	606.0013.0000 PARALLEL GUARDRAIL TERMINAL (EA)	606.0016.0000 TRANSITION RAIL (EA)	606.2007.000C CRASH CUSHION (EA)	614.0001.0000 CONCRETE BARRIER (FT)	REMARKS
F1	"S-SB-SP" 200+15	"S-SB-SP" 206+50	34' LT		636	3					TIE-IN TO EXISTING TRANSITION RAIL
	"S-SB-SP" 206+50	"S-SB-SP" 207+00	36' LT				1				
F2	"S-NB-SP" 600+17	"S-NB-SP" 607+61	34' RT		745	3					TIE-IN TO EXISTING TRANSITION RAIL
	"S-NB-SP" 607+61	"S-NB-SP" 608+11	36' RT				1				
F3	"S-SB-SP" 213+02	"S-SB-SP" 213+52	48' LT				1				
F5	"S-SB-SP" 224+80	"S-SB-SP" 225+30	48' LT				1				
	"S-SB-SP" 225+30	"S-SB-SP" 226+98	46' LT		168	3					
	"S-SB-SP" 226+98	"S-SB-SP" 227+48	48' LT				1				
F6	"ML" 352+22	"ML" 352+72	71' RT				1				
	"ML" 352+47	"ML" 352+97	71' LT				1				
	"ML" 352+72	"ML" 353+02	69' RT		30	3					
	"ML" 352+97	"ML" 353+27	69' LT		30	3					
	"ML" 353+02	"ML" 353+22	69' RT					1			
	"ML" 353+27	"ML" 353+47	69' LT					1			
	"ML" 353+23	"ML" 359+00	69' RT	577							
	"ML" 353+50	"ML" 359+00	69' LT	550							
F7	"ML" 359+00	"ML" 369+50	69' LT	1050							
	"ML" 359+00	"ML" 359+10	–						1		
	"ML" 359+10	"ML" 361+48	–	238							
	"ML" 361+48	"ML" 361+58	–						1		
	"N-SB-SP" 500+00	"N-SB-SP" 502+00	46' LT	200							
F8	"ML" 359+00	"ML" 368+06	69' RT	906							
F9	"N-SB-SP" 502+00	"N-SB-SP" 503+75	46' LT	175							
	"N-SB-SP" 503+76	"N-SB-SP" 503+96	46' LT					1			
	"N-SB-SP" 503+96	"N-SB-SP" 504+26	46' LT		30	3					
	"N-SB-SP" 504+26	"N-SB-SP" 504+76	48' LT				1				
	"N-SB-SP" 506+75	"N-SB-SP" 506+85	16' RT						1		
	"N-SB-SP" 506+85	"N-SB-SP" 515+00	5' RT							815	
	"N-SB-SP" 513+40	"N-SB-SP" 515+00	46' LT		160	3					
F11	"N-SB-SP" 515+00	"N-SB-SP" 516+24	40' LT		124	3					
	"N-SB-SP" 515+00	"N-SB-SP" 528+00	16' RT							1300	
	"N-SB-SP" 516+24	"N-SB-SP" 516+44	40' LT					1			
	"N-SB-SP" 517+42	"N-SB-SP" 517+62	40' LT					1			
	"N-SB-SP" 517+62	"N-SB-SP" 525+26	40' LT		764	3					
	"N-SB-SP" 525+26	"N-SB-SP" 525+76	48' LT				1				
F12	"N-NB-SP" 915+16	"N-NB-SP" 916+24	52' RT		108	3					
	"N-NB-SP" 916+24	"N-NB-SP" 916+44	52' RT					1			
	"N-NB-SP" 917+42	"N-NB-SP" 917+62	52' RT					1			
	"N-NB-SP" 917+62	"N-NB-SP" 923+09	52' RT		546	3					
	"N-NB-SP" 923+09	"N-NB-SP" 923+59	60' RT				1				
	"N-SB-SP" 528+00	"N-SB-SP" 528+22	16' RT							22	
	"N-SB-SP" 528+22	"N-SB-SP" 528+32	16' RT						1		

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SUMMARY TABLES

DATE/TIME 4/11/2022 9:38 AM | LAYOUT D15 | DESIGNED JM | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D16	D24

TRAFFIC BARRIER AND END TREATMENT SUMMARY

SHEET	STATION FROM	STATION TO	OFFSET	507.0004.0000 CONCRETE BRIDGE (FT)	606.0001.0000 W-BEAM GUARDRAIL (FT)	POST INSTALLATION CASE*	606.0013.0000 PARALLEL GUARDRAIL TERMINAL (EA)	606.0016.0000 TRANSITION RAIL (EA)	606.2007.000C CRASH CUSHION (EA)	614.0001.0000 CONCRETE BARRIER (FT)	REMARKS
F15	"N-SB-SP" 541+87	"N-SB-SP" 542+37	46' LT	50							
F18	"BD-2" 5215+00	"BD-2" 5215+50	4' LT				1				
	"BD-2" 5215+50	"BD-2" 5225+00	2' LT		950	3					
F19	"BD-2" 5225+00	"BD-2" 5231+46	2' LT		646	3					
F29	"OM-3" 2300+28	"OM-3" 2301+26	20' LT		98	3					
	"OM-3" 2301+26	"OM-3" 2301+76	22' LT				1				
F31	"OM-4" 2412+31	"OM-4" 2413+78	20' LT		146	3					
F34	"SA-3" 3308+05	"SA-3" 3311+00	8' LT		295	3					
F35	"SA-3" 3311+00	"SA-3" 3314+21	8' LT		321	3					
	"SA-3" 3314+21	"SA-3" 3314+71	10' LT				1				
F37	"SA-4" 3419+62	"SA-4" 3423+12	8' LT		351	3					
F38	"DI-1" 4108+84	"DI-1" 4109+34	10' RT				1				
	"DI-1" 4109+34	"DI-1" 4110+00	8' RT		66	3					
F39	"DI-1" 4110+00	"DI-1" 4116+98	8' RT		698	3					
	"DI-1" 4116+98	"DI-1" 4117+18	8' RT					1			TIE-IN TO EXISTING CONCRETE BARRIER
F40	"DI-2" 4200+32	"DI-2" 4204+51	8' RT	419							
	"DI-2" 4200+32	"DI-2" 4204+51	10' RT							419	INSTALL AT BASE OF MSE WALL
F43	"DI-4" 4413+35	"DI-4" 4414+21	8' LT		86	3					
	"DI-4" 4414+21	"DI-4" 4414+41	10' LT					1			TIE-IN TO EXISTING CONCRETE BARRIER
F44	"DI-5" 4500+33	"DI-5" 4500+88	22' RT				1				
	"DI-5" 4500+88	"DI-5" 4503+12	16' RT		211	3					
F103	"X-OM-EB" 2606+12	"X-OM-EB" 2607+09	22' RT							100	
	"X-OM-WB" 2507+27	"X-OM-WB" 2507+61	20' RT							35	
	"X-OM-EB" 2607+93	"X-OM-EB" 2610+00	21' RT							200	
	"X-OM-WB" 2507+93	"X-OM-WB" 2510+00	21' LT							200	
	"X-OM-WB" 2508+72	"X-OM-WB" 2510+00	20' RT							128	
	"X-OM-EB" 2608+87	"X-OM-EB" 2610+00	32' LT							109	
F105	"X-OM-EB" 2610+00	"X-OM-EB" 2610+79	32' LT							76	
	"X-OM-WB" 2510+00	"X-OM-WB" 2511+30	20' RT							135	
	"X-OM-EB" 2610+00	"X-OM-EB" 2611+52	21' RT							147	
	"X-OM-WB" 2510+00	"X-OM-WB" 2511+52	21' LT							147	
	"X-OM-EB" 2611+89	"X-OM-EB" 2612+28	20' LT							39	
	"X-OM-WB" 2512+44	"X-OM-WB" 2512+86	23' LT							42	
FP1	"WP" 101+12	"WP" 101+24	62' LT							12	
	"WP" 101+63	"WP" 101+75	66' LT							12	
	"WP" 102+01	"WP" 102+13	57' LT							12	
			TOTAL:	4165	7209		15	9	4	2890	
			PAY ITEM QUANTITY:	4200	7250		15	9	4	2900	

* SEE ASP G-10

NOTES:
1. TOTAL QUANTITY OF 614.0001.0000 = TOTAL OF CONCRETE BARRIER – 614.2000.0000.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SUMMARY TABLES

RM | DRAFTED | MR | CHECKED | JM | DESIGNED | D16 | LAYOUT | 4/11/2022 9:38 AM | DATE/TIME
FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876329\00012_D16_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D17	D24

606.0006.0000 – REMOVING AND DISPOSING OF GUARDRAIL

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F1	"S-SB-SP" 200+15	"S-SB-SP" 207+75	LT	760	
F2	"S-NB-SP" 600+17	"S-NB-SP" 602+75	RT	258	
	"S-NB-SP" 603+10	"S-NB-SP" 608+77	RT	568	
F3	"S-SB-SP" 214+34	"S-SB-SP" 220+27	LT	593	
F6	"ML" 351+17	"ML" 359+00	LT	783	
F7	"ML" 359+00	"ML" 361+31	LT	222	
F9	"N-SB-SP" 504+67	"N-SB-SP" 507+85	LT	318	
	"N-SB-SP" 510+55	"N-SB-SP" 515+00	LT	445	
	"N-SB-SP" 512+67	"N-SB-SP" 512+96	RT	51	
F10	"N-NB-SP" 913+44	"N-NB-SP" 915+00	RT	166	
F11	"N-SB-SP" 515+00	"N-SB-SP" 516+44	LT	144	
	"N-SB-SP" 517+42	"N-SB-SP" 523+63	LT	620	
	"N-SB-SP" 525+20	"N-SB-SP" 528+00	LT	285	
F12	"N-NB-SP" 915+00	"N-NB-SP" 916+18	RT	118	
	"N-NB-SP" 917+69	"N-NB-SP" 925+17	RT	745	
	"N-NB-SP" 924+25	"N-NB-SP" 928+00	RT	375	
	"N-NB-SP" 923+89	"N-NB-SP" 926+05	RT	217	
	"N-NB-SP" 926+78	"N-NB-SP" 928+00	RT	122	
F13	"N-SB-SP" 528+00	"N-SB-SP" 530+61	LT	263	
F14	"N-NB-SP" 928+00	"N-NB-SP" 934+14	RT	614	
	"N-NB-SP" 928+00	"N-NB-SP" 930+27	RT	227	
F32	"SA-2" 3203+34	"SA-2" 3211+50	RT	817	
F33	"SA-2" 3211+50	"SA-2" 3218+88	LT	795	
F34	"SA-3" 3307+72	"SA-3" 3311+00	LT	329	
	"SA-3" 3310+90	"SA-3" 3311+00	RT	10	
F35	"SA-3" 3311+00	"SA-3" 3315+56	LT	457	
	"SA-3" 3311+00	"SA-3" 3317+24	RT	632	
F103	"X-OM-WB" 2509+01	"X-OM-WB" 2510+00	LT	208	
F105	"X-OM-WB" 2510+00	"X-OM-WB" 2510+71	LT	152	
			TOTAL:	11294	
			PAY ITEM QUANTITY:	11300	

606.2002.0000 – STEEL BOLLARD, REMOVABLE

SHEET	STATION	OFFSET	REMARKS
FP8	"WP" 128+79	20' LT	
FP9	"WP" 132+46	20' LT	
FP10	"WP" 140+01	20' LT	
	TOTAL:	3	
	PAY ITEM QUANTITY:	3	

606.2003.0000 – WOOD BOLLARD, FIXED

SHEET	STATION	OFFSET	REMARKS
FP8	"WP" 128+75	20' LT	
	"WP" 128+84	20' LT	
FP9	"WP" 132+41	20' LT	
	"WP" 132+50	20' LT	
FP10	"WP" 139+96	20' LT	
	"WP" 140+05	20' LT	
	TOTAL:	6	
	PAY ITEM QUANTITY:	6	

607.0003.0000 – CHAIN LINK FENCE

SHEET	ALIGNMENT	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	"S-SB-SP"	202+40	229' LT	205+79	190' LT	344	
	"S-SB-SP"	205+79	190' LT	212+00	84' LT	1290	
F3	"S-SB-SP"	212+00	84' LT	212+80	113' LT	196	
	"S-SB-SP"	212+80	113' LT	225+00	89' LT	1221	
F5	"S-SB-SP"	225+00	89' LT	238+00	73' LT	1305	
F6	"ML"	346+00	96' LT	356+98	127' LT	1099	
F17	"BD-2"	5205+59	12' LT	5212+00	20' LT	641	
F18	"BD-2"	5212+00	20' LT	5225+00	10' LT	1301	
F19	"BD-2"	5225+00	10' LT	5230+69	10' LT	569	
F20	"BD-3"	5300+25	149' RT	5303+16	130' RT	382	
F29	"OM-3"	2305+37	157' LT	2307+40	187' LT	688	
F35	"SA-3"	3316+27	76' LT	3319+24	58' LT	296	
F201	"X-SA"	3008+59	116' RT	3010+00	57' RT	217	
F203	"X-SA"	3010+00	57' RT	3011+79	87' RT	188	
					TOTAL:	9737	
					PAY ITEM QUANTITY:	9750	

607.0005.0000 – DRIVE GATE

SHEET	STATION	OFFSET	REMARKS
F30	"OM-4" 2407+67	138' LT	
F110	"OM-3W" 2352+48	57' LT	
F203	"X-SA" 3008+59	64' LT	
F205	"X-SA" 3015+95	215' LT	
	TOTAL:	4	
	PAY ITEM QUANTITY:	4	

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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME | 4/11/2022 9:38 AM | LAYOUT | D17 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876329\00012_D17_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D18	D24

608.0001.0004 – CONCRETE SIDEWALK, 4 INCHES THICK

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS
F13	"N–SB–SP" 532+43	119' LT	"N–SB–SP" 536+53	121' LT	229	
	"N–SB–SP" 536+98	121' LT	"N–SB–SP" 539+36	122' LT	133	
	"N–SB–SP" 539+97	127' LT	"N–SB–SP" 541+00	136' LT	57	
F15	"N–SB–SP" 541+00	136' LT	"N–SB–SP" 541+93	165' LT	73	
F17	"BD–2" 5208+53	68' RT	"BD–2" 5208+53	147' RT	44	
F18	"BD–2" 5217+07	68' RT	"BD–2" 5217+07	115' RT	26	
F20	"BD–3" 5301+00	42' RT	"BD–3" 5307+88	54' RT	597	
	"BD–3" 5308+14	81' RT	"BD–3" 5309+86	52' RT	180	
	"BD–3" 5310+13	90' RT	"BD–3" 5311+00	31' RT	106	
F21	"BD–3" 5311+00	31' RT	"BD–3" 5311+88	98' RT	113	
F22	"BD–4" 5405+65	25' RT	"BD–4" 5405+00	23' RT	21	
F25	"HD–4" 6400+00	18' LT	"HD–4" 6402+63	25' LT	148	
	"HD–4" 6403+13	25' LT	"HD–4" 6404+42	25' LT	74	
	"HD–4" 6405+10	25' LT	"HD–4" 6406+75	23' LT	90	
F38	"DI–1" 4100+75	18' RT	"DI–1" 4109+29	57' RT	471	
F40	"DI–2" 4204+46	66' RT	"DI–2" 4210+00	18' RT	494	
F41	"DI–2" 4210+00	18' RT	"DI–2" 4218+43	27' RT	803	
F42	"DI–4" 4400+20	28' LT	"DI–4" 4400+29	27' LT	23	
	"DI–4" 4400+61	29' LT	"DI–4" 4400+91	25' LT	57	
	"DI–4" 4400+86	45' RT	"DI–4" 4401+00	22' RT	38	
	"DI–4" 4400+54	86' LT	"DI–4" 4408+89	18' LT	542	
F103	"X–OM–WB" 2506+54	30' LT	"X–OM–WB" 2507+37	64' LT	101	
	"X–OM–WB" 2507+34	89' RT	"X–OM–WB" 2507+79	20' RT	90	
F105	"X–OM–WB" 2511+71	16' RT	"X–OM–WB" 2512+50	48' RT	99	
	"X–OM–WB" 2512+01	59' LT	"X–OM–WB" 2512+86	50' LT	94	
F201	"X–SA" 3008+08	38' LT	"X–SA" 3010+00	48' LT	153	
F203	"X–SA" 3010+00	48' LT	"X–SA" 3012+15	125' LT	231	
	"X–SA" 3011+55	33' RT	"X–SA" 3011+65	36' RT	28	
	"X–SA" 3011+65	2' LT	"X–SA" 3011+75	2' LT	16	
	"X–SA" 3012+27	118' LT	"X–SA" 3012+64	113' LT	43	
	"X–SA" 3012+85	111' LT	"X–SA" 3015+00	45' LT	280	
	"X–SA" 3012+86	90' RT	"X–SA" 3015+00	39' RT	254	
F205	"X–SA" 3015+00	45' LT	"X–SA" 3015+79	101' LT	108	
	"X–SA" 3015+00	39' RT	"X–SA" 3015+78	95' RT	108	
	"X–SA" 3016+32	111' LT	"X–SA" 3020+00	23' LT	370	
	"X–SA" 3016+97	1' RT	"X–SA" 3017+07	1.8' RT	22	
F207	"X–SA" 3020+00	23' LT	"X–SA" 3020+51	30' LT	42	
	"X–SA" 3020+89	30' LT	"X–SA" 3024+80	26' LT	86	
				TOTAL:	6444	
				PAY ITEM QUANTITY:	6450	

608.2002.0000 – ASPHALT PATHWAY

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (TON)	REMARKS
F17	"BD–2" 5200+00	20' RT	"BD–2" 5206+11	54' RT	60.9	
	"BD–2" 5206+40	54' RT	"BD–2" 5208+18	53' RT	16.9	
	"BD–2" 5208+53	68' RT	"BD–2" 5212+00	30' RT	35.8	
F18	"BD–2" 5212+00	30' RT	"BD–2" 5216+72	54' RT	47.1	
	"BD–2" 5217+07	68' RT	"BD–2" 5222+65	54' RT	56.8	
	"BD–2" 5222+96	54' RT	"BD–2" 5225+00	30' RT	20.1	
F19	"BD–2" 5225+00	30' RT	"BD–2" 5231+49	21' RT	65.6	
F23	"HD–3" 6303+06	20' LT	"HD–3" 6307+00	20' LT	49.5	
F24	"HD–3" 6307+00	20' LT	"HD–3" 6312+79	29' LT	68.5	
F26	"OM–1" 2103+05	14' RT	"OM–1" 2103+71	18' RT	7.7	
	"OM–1" 2103+97	18' RT	"OM–1" 2107+28	20' RT	33.3	
F32	"SA–2" 3204+81	45' RT	"SA–2" 3211+50	20' RT	67.9	
F33	"SA–2" 3211+50	20' RT	"SA–2" 3219+52	50' RT	85.8	
F36	"SA–4" 3401+06	58' LT	"SA–4" 3412+00	20' LT	140.8	
F37	"SA–4" 3412+00	20' LT	"SA–4" 3416+45	34' LT	56.3	
F42	"DI–4" 4400+16	41' LT	"DI–4" 4400+25	40' LT	4.7	
F101	"X–OM–WB" 2502+14	77' RT	"X–OM–WB" 2502+49	89' RT	3.6	
	"X–OM–WB" 2502+99	92' RT	"X–OM–WB" 2505+00	106' RT	24.2	
	"X–OM–WB" 2504+68	43' LT	"X–OM–WB" 2505+00	41' LT	4.0	
F103	"X–OM–WB" 2505+00	106' RT	"X–OM–WB" 2507+45	114' RT	27.0	
	"X–OM–WB" 2505+00	41' LT	"X–OM–WB" 2505+61	42' LT	7.9	
F105	"X–OM–WB" 2512+56	74' RT	"X–OM–WB" 2514+00	81' RT	13.3	
F107	"X–OM–WB" 2514+00	81' RT	"X–OM–WB" 2515+69	64' RT	22.1	
	"X–OM–WB" 2515+08	27' LT	"X–OM–WB" 2515+69	27' RT	7.6	
F109	"OM–1E" 2150+00	15' RT	"OM–1E" 2154+24	14' RT	50.7	
F110	"OM–4W" 2450+00	102' LT	"OM–4W" 2452+61	55' LT	35.4	
F201	"X–SA" 3008+10	39' RT	"X–SA" 3010+00	46' RT	26.1	
F203	"X–SA" 3010+00	46' RT	"X–SA" 3012+66	111' RT	35.9	
F205	"X–SA" 3017+04	39' RT	"X–SA" 3020+00	30' RT	37.4	
F207	"X–SA" 3020+00	30' RT	"X–SA" 3024+80	18' RT	62.1	
FP	"FP" 99+60	–	"FP" 152+52	–	685.6	
				TOTAL:	1860.6	
				PAY ITEM QUANTITY:	1900	

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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME | 4/11/2022 9:38 AM | LAYOUT | D18 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D19	D24

608.0001.0006 – CONCRETE SIDEWALK, 6 INCHES THICK

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS
F103	"X-OM-WB" 2507+80	27' LT	"X-OM-WB" 2510+00	28' LT	494	
F105	"X-OM-WB" 2510+00	28' LT	"X-OM-WB" 2511+66	27' LT	332	
				TOTAL:	826	
				PAY ITEM QUANTITY:	850	

608.0006.0000 – CURB RAMP

SHEET	STATION	OFFSET	TYPE	REMARKS
F13	"N-SB-SP" 532+54	116.6' LT	UNIDIRECTIONAL	
	"N-SB-SP" 536+43	118.0' LT	UNIDIRECTIONAL	
	"N-SB-SP" 537+08	118.0' LT	UNIDIRECTIONAL	
	"N-SB-SP" 539+24	118.6' LT	UNIDIRECTIONAL	
	"N-SB-SP" 540+09	125.1' LT	UNIDIRECTIONAL	
	"N-SB-SP" 540+84	135.6' LT	BIKE	
F17	"BD-2" 5205+98	43.1' RT	PARALLEL	
	"BD-2" 5206+53	43.1' RT	PARALLEL	
	"BD-2" 5208+05	43.3' RT	PARALLEL	
	"BD-2" 5208+68	43.3' RT	PARALLEL	
F18	"BD-2" 5216+59	43.3' RT	PARALLEL	
	"BD-2" 5217+22	43.3' RT	PARALLEL	
	"BD-2" 5222+53	43.2' RT	PARALLEL	
	"BD-2" 5223+09	43.2' RT	PARALLEL	
F19	"BD-2" 5231+56	27.5' RT	UNIDIRECTIONAL	
	"BD-2" 5232+25	26.4' RT	UNIDIRECTIONAL	
F20	"BD-3" 5303+76	31.0' RT	BIKE	
	"BD-3" 5307+75	43.1' RT	PARALLEL	
	"BD-3" 5308+29	43.2' RT	PARALLEL	
	"BD-3" 5309+74	40.8' RT	PARALLEL	
	"BD-3" 5310+28	39.1' RT	PARALLEL	
F21	"BD-3" 5311+73	36.4' RT	PARALLEL	
	"BD-3" 5312+27	34.7' RT		
F22	"BD-4" 5404+25	21.9' RT	UNIDIRECTIONAL	
	"BD-4" 5404+74	21.9' RT	UNIDIRECTIONAL	
F24	"HD-3" 6312+00	24.0' LT	BIKE	
F25	"HD-4" 6402+48	21.5' LT	UNIDIRECTIONAL	
	"HD-4" 6403+28	21.5' LT	UNIDIRECTIONAL	
	"HD-4" 6404+29	22.1' LT	UNIDIRECTIONAL	
	"HD-4" 6405+24	22.1' LT	UNIDIRECTIONAL	
	"HD-4" 6406+65	20.5' LT	UNIDIRECTIONAL	
F26	"OM-1" 2103+85	18.9' RT	BIKE	
F33	"SA-2" 3217+60	18.9' RT	BIKE	
F36	"SA-4" 3402+02	56.8' LT	BIKE	
F41	"DI-2" 4217+03	22.2' RT	BIKE	

608.0006.0000 – CURB RAMP

SHEET	STATION	OFFSET	TYPE	REMARKS
F42	"DI-4" 4400+87	56.3' LT	PARALLEL	
	"DI-4" 4400+88	22.6' RT	PERPENDICULAR	
	"DI-4" 4402+93	29.0' LT	BIKE	
F101	"X-OM-WB" 2502+36	85.0' RT	UNIDIRECTIONAL	
	"X-OM-WB" 2503+12	88.0' RT	UNIDIRECTIONAL	
F105	"X-OM-WB" 2512+68	71.6' RT	PERPENDICULAR	
	"X-OM-WB" 2512+95	71.6' LT	PERPENDICULAR	
F201	"X-SA" 3009+56	44.0' RT	BIKE	
F205	"X-SA" 3017+78	30.0' RT	BIKE	
	"X-SA" 3018+36	30.0' LT	BIKE	
F207	"X-SA" 3020+39	26.5' LT	UNIDIRECTIONAL	
	"X-SA" 3021+02	26.5' LT	UNIDIRECTIONAL	
			TOTAL:	46
			PAY ITEM QUANTITY:	46

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FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876329\00012_D19_SUM.DWG | DATE/TIME | 4/11/2022 9:38 AM | LAYOUT | D19 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D20	D24

608.2013.E004 – CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS

SHEET	ALIGNMENT	STATION FROM	STATION TO	AREA (SY)	REMARKS
F17	"BD–2"	5200+00	5205+75	128	
	"BD–2"	5206+77	5207+81	23	
	"BD–2"	5208+93	5212+00	68	
F18	"BD–2"	5212+00	5216+35	97	
	"BD–2"	5217+46	5222+28	107	
	"BD–2"	5223+33	5225+00	37	
F19	"BD–2"	5225+00	5231+37	142	
	"BD–2"	5232+44	5238+12	126	
F20	"BD–3"	5300+18	5301+23	29	
	"BD–3"	5301+34	5303+43	42	
F23	"HD–3"	6300+00	6307+00	156	
F24	"HD–3"	6307+00	6311+60	101	
F26	"OM–1"	2104+26	2107+28	67	
F32	"SA–2"	3210+58	3211+50	20	
F33	"SA–2"	3211+50	3217+56	135	
	"SA–2"	3217+62	3218+37	15	
	"SA–2"	3218+49	3219+57	28	
F35	"SA–3"	3317+24	3318+56	28	
F36	"SA–4"	3400+22	3400+99	21	
	"SA–4"	3401+13	3402+05	15	
	"SA–4"	3402+13	3412+00	220	
F37	"SA–4"	3412+00	3413+41	31	
F101	"X–OM–WB"	2503+28	2505+00	38	
F103	"X–OM–WB"	2505+00	2506+06	26	
	"X–OM–WB"	2505+00	2507+35	44	
	"X–OM–WB"	2507+45	2508+22	32	
	"X–OM–WB"	2507+71	2507+80	6	
F105	"X–OM–WB"	2511+55	2512+61	36	
	"X–OM–WB"	2511+67	2511+76	5	
	"X–OM–WB"	2512+75	2514+09	23	
F107	"X–OM–WB"	2514+09	2515+69	37	
	"X–OM–WB"	2515+09	2515+69	13	
F110	"OM–4W"	2450+32	2452+61	49	
	"OM–4W"	2451+45	2452+61	54	
F201	"X–SA"	3006+59	3007+31	10	
	"X–SA"	3008+44	3009+47	23	
	"X–SA"	3008+51	3010+00	32	
	"X–SA"	3009+54	3010+00	11	
F203	"X–SA"	3010+00	3011+58	35	
	"X–SA"	3010+76	3011+47	35	
	"X–SA"	3011+57	3012+60	23	

608.2013.E004 – CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS

SHEET	ALIGNMENT	STATION FROM	STATION TO	AREA (SY)	REMARKS
F205	"X–SA"	3017+12	3017+83	16	
	"X–SA"	3017+18	3018+11	21	
	"X–SA"	3017+92	3020+00	44	
F207	"X–SA"	3020+00	3022+43	55	
			TOTAL:	2304	
			PAY ITEM QUANTITY:	2400	

608.2013.E006 – CONCRETE, TYPE V, 6 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS

SHEET	ALIGNMENT	STATION FROM	STATION TO	AREA (SY)	REMARKS
F26	"OM–1"	2100+51	2103+05	147	
F28	"OM–2"	2206+64	2208+43	128	
F29	"OM–3"	2306+54	2308+83	107	
F36	"SA–4"	3400+45	3403+40	608	
F42	"DI–4"	4400+59	4401+49	111	
F101	"X–OM–WB"	2503+09	2505+00	205	
F103	"X–OM–WB"	2505+00	2506+52	435	
	"X–OM–WB"	2505+88	2508+21	1013	
	"X–OM–WB"	2506+53	2507+48	681	
F105	"X–OM–WB"	2511+56	2513+26	622	
	"X–OM–WB"	2511+60	2512+56	430	
	"X–OM–WB"	2512+89	2514+00	266	
F107	"X–OM–WB"	2514+00	2515+69	208	
F201	"X–SA"	3008+31	3010+00	84	
F203	"X–SA"	3010+00	3011+92	121	
	"X–SA"	3010+86	3012+24	195	
	"X–SA"	3012+15	3015+00	732	
	"X–SA"	3012+70	3015+00	155	
	"X–SA"	3012+72	3015+01	232	
F205	"X–SA"	3015+00	3015+88	86	
	"X–SA"	3015+00	3015+86	96	
	"X–SA"	3015+00	3016+47	597	
	"X–SA"	3016+85	3019+19	206	
			TOTAL:	7465	
			PAY ITEM QUANTITY:	7500	

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME 4/11/2022 9:39 AM | LAYOUT D20 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE [C:\PW_WORKDIR\DEN001\VR0537776\D0876329\00012_D20_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D21	D24

608.2017.0000 – DETECTABLE WARNING TILES

SHEET	STATION	OFFSET	REMARKS
F42	"DI-4" 4400+21	26.5' LT	
	"DI-4" 4400+27	27.6' LT	
	"DI-4" 4400+64	30.2' LT	
	"DI-4" 4400+85	37.1' LT	
	"DI-4" 4400+86	15.0' LT	
F103	"X-OM-WB" 2506+11	40.2' LT	
	"X-OM-WB" 2506+57	34.9' LT	
	"X-OM-WB" 2507+73	21.0' RT	
	"X-OM-WB" 2507+85	22.1' LT	
	"X-OM-EB" 2607+70	31.0' LT	
	"X-OM-EB" 2607+85	22.1' RT	
F105	"X-OM-WB" 2511+61	22.1' LT	
	"X-OM-WB" 2511+77	17.0' RT	
	"X-OM-EB" 2611+61	22.1' RT	
	"X-OM-EB" 2611+78	21.0' LT	
	"X-OM-EB" 2612+74	35.5' RT	
F109	"OM-1E" 2152+42	8.2' LT	
F110	"OM-3W" 2351+56	17.1' LT	
	"OM-3W" 2351+59	10.3' RT	
F203	"X-SA" 3011+52	62.1' RT	
	"X-SA" 3011+58	42.6' RT	
	"X-SA" 3011+63	24.9' RT	
	"X-SA" 3011+69	2.0' RT	
	"X-SA" 3011+62	36.8' LT	
	"X-SA" 3011+69	6.3' LT	
	"SA-3" 3318+62	9.3' LT	
	"SA-3" 3318+64	21.7' RT	
	"SA-4" 3401+04	51.7' LT	
	"SA-4" 3401+17	32.9' LT	
	"SA-4" 3401+30	3.1' LT	
	"SA-4" 3401+36	21.6' RT	
F205	"BD-3" 5301+27	4.9' LT	
	"BD-3" 5301+28	31.1' RT	
	"SA-2" 3218+41	18.9' LT	
	"SA-2" 3218+43	17.3' RT	
	"X-SA" 3017+03	7.4' RT	
	"X-SA" 3017+05	5.8' LT	
	"X-SA" 3017+07	28.6' RT	
	"X-SA" 3017+14	26.6' LT	
	TOTAL:	39	
	PAY ITEM QUANTITY:	39	

609.0002.0001 – CURB AND GUTTER, TYPE 1

SHEET	FROM		TO		LENGTH (FT)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F13	"N-SB-SP" 532.41	123.9' LT	"N-SB-SP" 532+61	113.6' LT	26	
	"N-SB-SP" 536+28	113.5' LT	"N-SB-SP" 536+56	122.7' LT	30	
	"N-SB-SP" 536+96	122.7' LT	"N-SB-SP" 537+23	113.5' LT	30	
	"N-SB-SP" 539+03	113.5' LT	"N-SB-SP" 539+40	124.8' LT	40	
	"N-SB-SP" 539+92	129.1' LT	"N-SB-SP" 540+20	121.8' LT	30	
	"N-SB-SP" 540+71	130.0' LT	"N-SB-SP" 540+98	135.3' LT	27	
F17	"BD-2" 5200+00	17.5' RT	"BD-2" 5206+15	66.7' RT	636	
	"BD-2" 5206+36	67.4' RT	"BD-2" 5208+21	154.5' RT	317	
	"BD-2" 5208+52	150.0' RT	"BD-2" 5212+00	27.5' RT	453	
F18	"BD-2" 5212+00	27.5' RT	"BD-2" 5216+75	115.1' RT	545	
	"BD-2" 5217+06	114.9' RT	"BD-2" 5222+70	67.5' RT	656	
	"BD-2" 5222+92	67.5' RT	"BD-2" 5225+00	27.5' RT	231	
F19	"BD-2" 5225+00	27.5' RT	"BD-2" 5231+80	62.2' RT	706	
	"BD-2" 5232+03	60.5' RT	"BD-2" 5238.12	17.5' RT	635	
F20	"BD-3" 5300+20	48.7' RT	"BD-3" 5307+90	81.1' RT	806	
	"BD-3" 5301+06	3.5' LT	"BD-3" 5302+64	3.5' LT	161	
	"BD-3" 5308+13	80.9' RT	"BD-3" 5309+90	89.5' RT	259	
	"BD-3" 5310+12	89.5' RT	"BD-3" 5311+00	22.1' RT	137	
F21	"BD-3" 5311+00	22.1' RT	"BD-3" 5311+89	98.4' RT	149	
	"BD-3" 5312+11	98.3' RT	"BD-3" 5315+80	17.5' RT	430	
F22	"BD-4" 5400+07	175' RT	"BD-4" 5404+39	36.8' RT	441	
	"BD-4" 5404+59	38.2' RT	"BD-4" 5405+00	17.5' RT	53	
F23	"HD-3" 6300+00	17.7' RT	"HD-3" 6307+00	17.7' LT	700	
F24	"HD-3" 6307+00	17.7' LT	"HD-3" 6312+80	28.8' LT	575	
F25	"HD-4" 6400+00	17.5' LT	"HD-4" 6402+71	43.3' LT	286	
	"HD-4" 6403+05	42.8' LT	"HD-4" 6404+59	66.7' LT	201	
	"HD-4" 6404+94	67.3' LT	"HD-4" 6406+78	28.9' LT	223	
F26	"OM-1" 2103+00	13.6' RT	"OM-1" 2107+28	17.5' RT	426	
F32	"SA-2" 3210+58	17.5' RT	"SA-2" 3211+50	17.6' RT	92	
F33	"SA-2" 3211+50	17.5' RT	"SA-2" 3219+56	41.6' RT	817	
F36	"SA-4" 3400+45	16.5' LT	"SA-4" 3401+17	17.9' LT	181	
	"SA-4" 3400+66	40.5' LT	"SA-4" 3412+00	17.5' LT	1113	
	"SA-4" 3401+33	18.2' LT	"SA-4" 3403+40	6.7' LT	442	
F37	"SA-4" 3412+00	17.5' LT	"SA-4" 3413+41	17.7' LT	141	
F38	"DI-1" 4100+75	17.5' RT	"DI-1" 4105+00	17.5' RT	421	
F40	"DI-2" 4208+08	17.5' RT	"DI-2" 4210+00	17.5' RT	186	
F41	"DI-2" 4210+00	17.5' RT	"DI-2" 4218+43	26.5' RT	850	

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

RM | DRAFTED | MR | CHECKED | JM | DESIGNED | D21 | LAYOUT | 4/11/2022 9:39 AM | DATE/TIME
FILE | C:\PW_WORKDIR\DEN001\RKD53776\D0876329\00012_D21_SUM.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D22	D24

609.0002.0001 – CURB AND GUTTER, TYPE 1

SHEET	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FT)	REMARKS
F42	"DI-4" 4400+15	72.1' LT	"DI-4" 4400+27	4.7' LT	117	
	"DI-4" 4400+53	85.6' LT	"DI-4" 4408+89	17.5' LT	849	
	"DI-4" 4400+57	45.3' RT	"DI-4" 4401+50	20.7' LT	243	
	"DI-4" 4400+86	45.5' RT	"DI-4" 4401+00	21.5' RT	41	
F101	"X-OM-WB" 2501+30	31.5' LT	"X-OM-WB" 2505+00	19.5' LT	369	
	"X-OM-WB" 2502+14	76.8' RT	"X-OM-WB" 2502+50	144.2' RT	98	
	"X-OM-WB" 2502+81	17.5' RT	"X-OM-WB" 2503+56	15.3' RT	150	
	"X-OM-WB" 2502+82	152.9' RT	"X-OM-WB" 2505+00	104.4' RT	272	
	"X-OM-WB" 2503+08	43.0' RT	"X-OM-WB" 2505+00	31.3' RT	387	
F103	"X-OM-WB" 2505+00	19.5' LT	"X-OM-WB" 2506+41	253.0' LT	350	
	"X-OM-WB" 2505+00	31.3' RT	"X-OM-WB" 2506+51	15.3' RT	288	
	"X-OM-WB" 2505+00	104.4' RT	"X-OM-WB" 2508+22	199.8' RT	338	
	"X-OM-WB" 2505+88	105.2' RT	"X-OM-WB" 2508+21	21.7' RT	544	
	"X-OM-WB" 2506+53	22.3' LT	"X-OM-WB" 2507+49	74.8' LT	383	
	"X-OM-WB" 2507+70	23.2' LT	"X-OM-WB" 2508+00	46.0' LT	45	
	"X-OM-WB" 2508+40	175.1' RT	"X-OM-WB" 2508+72	24.6' RT	333	
	"X-OM-WB" 2506+92	262.0' LT	"X-OM-WB" 2509+04	111.9' LT	247	
F105	"X-OM-WB" 2510+68	104.8' LT	"X-OM-WB" 2512+33	230.7' LT	293	
	"X-OM-WB" 2510+89	19.5' RT	"X-OM-WB" 2511+37	161.7' RT	346	
	"X-OM-WB" 2511+36	22.2' LT	"X-OM-WB" 2511+77	23.0' LT	47	
	"X-OM-WB" 2511+56	87.6' LT	"X-OM-WB" 2513+26	25.0' LT	441	
	"X-OM-WB" 2511+59	15.5' RT	"X-OM-WB" 2512+57	43.8' RT	304	
	"X-OM-WB" 2511+54	178.6' RT	"X-OM-WB" 2515+00	63.8' RT	379	
	"X-OM-WB" 2512+63	220.0' LT	"X-OM-WB" 2515+00	26.0' LT	391	
	"X-OM-WB" 2512+89	17.8' RT	"X-OM-WB" 2515+00	18.9' RT	411	
F107	"X-OM-WB" 2515+00	26.0' LT	"X-OM-WB" 2515+69	26.0' LT	69	
	"X-OM-WB" 2515+00	18.9' RT	"X-OM-WB" 2515+69	16.3' RT	138	
	"X-OM-WB" 2515+00	63.8' RT	"X-OM-WB" 2515+69	61.9' RT	69	
F201	"X-SA" 3005+66	6.8' RT	"X-SA" 3007+31	4.0' LT	166	
	"X-SA" 3006+59	6.4' LT	"X-SA" 3007+31	6.8' LT	73	
	"X-SA" 3008+08	37.8' LT	"X-SA" 3010+00	25.4' LT	193	
	"X-SA" 3008+31	5.4' RT	"X-SA" 3010+00	–	338	
	"X-SA" 3008+10	38.5' RT	"X-SA" 3010+00	36.6' RT	198	
F203	"X-SA" 3010+00	25.4' LT	"X-SA" 3012+00	84.1' LT	228	
	"X-SA" 3010+00	–	"X-SA"3011+63	–	334	
	"X-SA" 3010+00	36.6' RT	"X-SA" 3012+87	234.6' RT	408	
	"X-SA" 3011+76	–	"X-SA" 3011+92	–	68	
	"X-SA" 3010+86	24.0' RT	"X-SA" 3012+25	60.9' RT	303	
	"X-SA" 3012+69	74.5' RT	"X-SA" 3013+12	205.7' RT	144	
	"X-SA" 3012+30	–	"X-SA" 3013+07	–	245	
	"X-SA" 3012+15	–	"X-SA" 3015+00	–	659	
	"X-SA" 3013+87	127.4' LT	"X-SA" 3015+00	33.2' LT	298	
	"X-SA" 3012+71	70.0' RT	"X-SA" 3015+00	28.0' RT	239	
F205	"X-SA" 3015+00	33.2' LT	"X-SA" 3015+91	78.2' LT	103	
	"X-SA" 3015+00	–	"X-SA" 3016+48	–	380	
	"X-SA" 3015+00	28.0' RT	"X-SA" 3015+66	151.9' RT	192	
	"X-SA" 3015+55	–	"X-SA" 3016+32	–	245	
	"X-SA" 3016+85	–	"X-SA" 3016+96	–	65	
	"X-SA" 3017+00	30.4' LT	"X-SA" 3020+00	22.0' LT	313	
	"X-SA" 3017+09	–	"X-SA" 3020+00	–	433	
	"X-SA" 3017+00	28.8' RT	"X-SA" 3020+00	22.0' RT	290	
F207	"X-SA" 3020+00	22.0' LT	"X-SA" 3023+53	37.0' LT	62	
	"X-SA" 3020+00	22.0' RT	"X-SA" 3024+80	17.4' RT	486	
	"X-SA" 3020+87	37.0' LT	"X-SA" 3024+80	17.5' LT	395	
				TOTAL:	28252	
				PAY ITEM QUANTITY:	28300	

611.0002.0001 – RIPRAP, CLASS I

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (TON)	REMARKS
F1	"ML" 310+10	120' LT	"ML" 310+10	132' LT	7	
F3	"ML" 320+24	120' LT	"ML" 320+24	132' LT	7	
	"ML" 320+63	132' LT	"ML" 320+63	120' LT	7	
	"ML" 324+16	161' LT	"ML" 324+16	173' LT	7	
F5	"ML" 343+19	121' LT	"ML" 343+19	109' LT	7	
F6	"ML" 356+40	81' RT	"ML" 356+40	92' RT	7	
	"ML" 356+40	81' LT	"ML" 356+40	92' LT	7	
F8	"ML" 368+58	79' RT	"ML" 368+58	90' RT	7	
F10	"ML" 375+66	69' RT	"ML" 375+66	81' RT	7	
	"ML" 375+58	17' LT	"ML" 375+58	5' RT	7	
F16	"BD-1" 5104+68	24' LT	"BD-1" 5104+68	36' LT	7	
F16	"BD-1" 5104+68	20' RT	"BD-1" 5104+68	32' RT	7	
F17	"BD-2" 5204+08	50' RT	"BD-2" 5204+08	62' RT	7	
	"BD-2" 5205+63	60' RT	"BD-2" 5205+75	60' RT	7	
	"BD-2" 5206+71	60' RT	"BD-2" 5206+83	60' RT	7	
	"BD-2" 5207+81	59' RT	"BD-2" 5207+93	59' RT	7	
	"BD-2" 5208+90	58' RT	"BD-2" 5209+02	58' RT	7	
	"BD-2" 5211+86	9' LT	"BD-2" 5211+86	21' LT	7	
F18	"BD-2" 5212+58	10' LT	"BD-2" 5212+55	22'LT	7	
	"BD-2" 5212+58	59' RT	"BD-2" 5212+58	71' RT	7	
	"BD-2" 5217+47	44' RT	"BD-2" 5217+47	56' RT	7	
	"BD-2" 5217+55	19' LT	"BD-2" 5217+55	31' LT	7	
	"BD-2" 5220+00	9' LT	"BD-2" 5220+00	21' LT	8	
F19	"BD-2" 5229+20	26' LT	"BD-2" 5229+20	38' LT	7	
	"BD-2" 5231+36	42' RT	"BD-2" 5231+36	54' RT	8	
F20	"BD-3" 5302+82	69' RT	"BD-3" 5302+82	81' RT	7	
	"BD-3" 5308+99	40' RT	"BD-3" 5308+99	52' RT	7	
F21	"BD-3" 5311+49	42' RT	"BD-3" 5311+49	54' RT	7	
F24	"HD-3"6311+37	39' LT	"HD-3"6311+37	51' LT	7	
F25	"HD-4" 6402+56	38' LT	"HD-4" 6402+44	38' LT	7	
	"HD-4" 6403+30	35' LT	"HD-4" 6403+42	35' LT	7	
	"HD-4" 6404+20	33' LT	"HD-4" 6404+20	45' LT	7	
F26	"OM-1" 2108+98	23' LT	"OM-1" 2108+98	35' LT	7	
	"OM-1" 2108+97	51' RT	"OM-1" 2108+97	63' RT	7	
F30	"OM-4" 2404+49	40' RT	"OM-4" 2404+49	52' RT	7	
	"OM-4" 2404+70	56' LT	"OM-4" 2404+70	68' LT	7	
	"OM-4" 2406+02	81' LT	"OM-4" 2406+02	69' LT	7	

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SUMMARY TABLES

DATE/TIME 4/11/2022 9:39 AM | LAYOUT D22 | DESIGNED JM | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D23	D24

611.0002.0001 – RIPRAP, CLASS I

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	QUANTITY (TON)	REMARKS
F31	"OM-4" 2411+92	98' LT	"OM-4" 2411+92	86' LT	7	
F32	"SA-2" 3210+80.00	22' LT	"SA-2" 3210+80.00	34' LT	8	
F35	"SA-3" 3316+46	77' LT	"SA-3" 3316+54	84' LT	7	
	"SA-3" 3316+00	15' LT	"SA-3" 3316+00	27' LT	7	
F36	"SA-4" 3403+01	27' RT	"SA-4" 3403+01	39' RT	7	
F41	"DI-2" 4210+29	58' RT	"DI-2" 4210+29	58' RT	7	
	"DI-2" 4211+40	62' LT	"DI-2" 4211+40	74' LT	8	
F42	"DI-4" 4404+05	26' RT	"DI-4" 4404+05	38' RT	8	
	"DI-4" 4406+38	35' LT	"DI-4" 4406+38	47' LT	7	
	"DI-4" 4409+30	23' RT	"DI-4" 4409+30	35' RT	8	
F103	"OM-3W" 2351+09	90' LT	"OM-3W" 2350+94	99' LT	8	
	"OM-3" 2308+00	49' RT	"OM-3" 2307+88	49' RT	7	
F105	"OM-2E" 2250+30	39' RT	"OM-2E" 2250+30	51' RT	7	
F203	"X-SA" 3010+08	75' RT	"X-SA" 3010+17	73' RT	7	
	"X-SA" 3010+17	72' RT	"X-SA" 3010+17	84' RT	7	
	"X-SA" 3011+55	96' RT	"X-SA" 3011+55	108'RT	8	
	"X-SA" 3011+65	63' RT	"X-SA" 3011+65	75' RT	7	
	"X-SA" 3012+32	122' RT	"X-SA" 3012+32	134' RT	7	
	"X-SA" 3013+06	95' RT	"X-SA" 3013+06	107' RT	7	
	"X-SA" 3013+51	51' RT	"X-SA" 3015+00	46' RT	272	
	"X-SA" 3013+62	47' LT	"X-SA" 3015+00	54' LT	295	
F205	"X-SA" 3015+00	46' RT	"X-SA" 3015+04	46' RT	12	
	"X-SA" 3015+00	54' LT	"X-SA" 3015+09	54' LT	13	
	"X-SA" 3015+42	122' RT	"X-SA" 3015+42	134' RT	7	
	"X-SA" 3016+38	111' RT	"X-SA" 3016+38	123' RT	7	
	"X-SA" 3017+67	59' LT	"X-SA" 3017+67	71' LT	7	
FP1	"WP" 101+15	27' LT	"WP" 102+17	36' LT	208	
				TOTAL:	1221	
				PAY ITEM QUANTITY:	1230	

614.2000.0000 – RELOCATE CONCRETE BARRIER

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F11	"N-SB-SP" 516+17	"N-SB-SP" 526+77	RT	1060	
			TOTAL:	1060	
			PAY ITEM QUANTITY:	1100	

626.2003.0000 – SANITARY SEWER CLEANOUT

SHEET	STATION	OFFSET	REMARKS
F18	"BD-2" 5216+82	60' RT	AWWU FACILITY
U7	"W2" 2+00	–	AWWU FACILITY
U9	"S2" 1+40	–	AWWU FACILITY
	TOTAL:	3	
	PAY ITEM QUANTITY:	3	

626.2013.0000 – ADJUST SANITARY SEWER CLEANOUT

SHEET	STATION	OFFSET	REMARKS
F18	"BD-2" 5216+82	60' RT	AWWU FACILITY
U7	"W2" 2+00	–	AWWU FACILITY
	TOTAL:	2	
	PAY ITEM QUANTITY:	2	

627.0003.0000 – INSTALL VALVE BOX

SHEET	STATION	OFFSET	REMARKS
U7	"W2" 2+00	–	AWWU FACILITY
	TOTAL:	1	
	PAY ITEM QUANTITY:	1	

627.0004.0000 – FIRE HYDRANT ADJUSTMENT

SHEET	STATION	OFFSET	REMARKS
F207	"W2" 5+69	15' RT	ADJUST HYDRANT (AWWU FACILITY)
	TOTAL:	1	
	PAY ITEM QUANTITY:	1	

627.0005.0000 – FIRE HYDRANT INSTALLATION

SHEET	STATION	OFFSET	REMARKS
U7	"W2" 2+15	13' LT	INSTALL DOUBLE PUMPER HYDRANT ASSEMBLY (AWWU FACILITY)
	TOTAL:	1	
	PAY ITEM QUANTITY:	1	

627.0007.0000 – FIRE HYDRANT REMOVAL

SHEET	STATION	OFFSET	REMARKS
U7	"W2" 0+61	16' RT	
	"W2" 2+15	13' LT	REMOVE DOUBLE PUMPER HYDRANT ASSEMBLY (AWWU FACILITY)
	TOTAL:	2	
	PAY ITEM QUANTITY:	2	

627.0009.0012 – GATE VALVE, 12 INCH

SHEET	STATION	OFFSET	REMARKS
U7	"W2" 2+00	–	INSTALL 12" GATE VALVE WITH MJ CAP (AWWU FACILITY)
	TOTAL:	1	
	PAY ITEM QUANTITY:	1	

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUMMARY TABLES

DATE/TIME 4/11/2022 9:39 AM | LAYOUT D23 | DESIGNED JM | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	D24	D24

627.0010.0000 – ADJUSTMENT OF VALVE BOX

SHEET	STATION	OFFSET	REMARKS
F20	"BD–3" 5309+84	68' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"BD–3" 5311+72	65' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"BD–3" 5311+74	66' RT	ADJUST VALVE BOX (AWWU FACILITY)
F40	"BD–3" 5310+05	71' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"BD–3" 5311+93	67' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"BD–3" 5311+95	68' RT	ADJUST VALVE BOX (AWWU FACILITY)
F207	"W2" 5+69	1' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"W2" 7+31	6' LT	ADJUST VALVE BOX (AWWU FACILITY)
	"X–SA" 3025+13	1' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"X–SA" 3025+25	10' RT	ADJUST VALVE BOX (AWWU FACILITY)
U5	"W1" 1+06	5' RT	ADJUST VALVE BOX (AWWU FACILITY)
U7	"W2" 2+15	5' LT	ADJUST VALVE BOX (AWWU FACILITY)
	"W2" 3+25	5' LT	ADJUST VALVE BOX (AWWU FACILITY)
U8	"W2" 5+69	1' RT	ADJUST VALVE BOX (AWWU FACILITY)
	"W2" 7+31	6' LT	ADJUST VALVE BOX (AWWU FACILITY)
	TOTAL:	15	
	PAY ITEM QUANTITY:	15	

627.2014.0000 – ABANDON WATER PIPE

SHEET	STATION FROM	STATION TO	OFFSET	LENGTH (FT)	REMARKS
U7	"W2" 0+29	"W2" 2+00	–	170	ABANDON 12" WATER LINE (AWWU FACILITY)
			TOTAL:	170	
			PAY ITEM QUANTITY:	170	

635.0001.0000 – INSULATION BOARD

SHEET	STATION FROM	STATION TO	TOTAL (MBM)	REMARKS
F201	"X–SA" 3008+36	"X–SA" 3010+00	18	
F203	"X–SA" 3010+00	"X–SA" 3015+00	94	
F205	"X–SA" 3015+00	"X–SA" 3020+00	77	
F207	"X–SA" 3020+00	"X–SA" 3024+92	38	
		TOTAL:	227	
		PAY ITEM QUANTITY:	227	

635.0001.0000 – INSULATION BOARD, WATERLINE

SHEET	STATION FROM	STATION TO	TOTAL (MBM)	REMARKS
U5	"W1" 1+00	"W1" 2+00	3.2	4" THICK X 8' WIDE INSULATION BOARD
	"W1" 1+06	–	0.3	4" THICK X 8' WIDE INSULATION BOARD
	"W1" 2+00	"W1" 4+00	12.8	4" THICK X 16' WIDE INSULATION BOARD
U6	"W1" 4+00	"W1" STA 5+60	10.3	4" THICK X 16' WIDE INSULATION BOARD
	"W1" 5+60	"W1" 8+00	7.7	4" THICK X 8' WIDE INSULATION BOARD
U7	"W2" 2+15	–	0.4	4" THICK X 8' WIDE INSULATION BOARD
	"X–SA" 3018+85	"X–SA" 3019+28	3.1	4" THICK X 8' WIDE INSULATION BOARD
		TOTAL:	38	
		PAY ITEM QUANTITY:	38	

627.2029.0000 – FLUSHING HYDRANT

SHEET	STATION	OFFSET	REMARKS
U5	"W1" 1+06	6' RT	MODIFY EXISTING DOUBLE PUMPER HYDRANT, INSTALL FLUSH HYDRANT AT FINISH GRADE (AWWU FACILITY)
	TOTAL:	1	
	PAY ITEM QUANTITY:	1	

639.2000.0000 – APPROACH

SHEET	STATION	OFFSET	WIDTH	RADIUS	SKEW	TYPE	REMARKS
F17	"BD–2" 5206+25	RT	24'	41.5'	89°48'18"	RADIUS RETURN	CORNERSTONE CHURCH
F22	"BD–4" 5404+48	RT	20'	21.5	89°59'60"	RADIUS RETURN	SED POND
F25	"HD–4" 6402+87	LT	34'	26.5'	88°19'54"	RADIUS RETURN	SKATELAND
	"HD–4" 6402+94	LT	24'	15.0'	89°01'41"	RADIUS RETURN	SKATELAND N BACKSIDE
F42	"DI–4" 4408+76	LT	24'	15.0'	89°44'15"	RADIUS RETURN	SKATELAND S BACKSIDE
F45	"BD–2" 5208+36	RT	29'	41.5'	89°39'44"	RADIUS RETURN	THUJA AVE
	"BD–2" 5216+90	RT	29'	41.5'	89°35'01"	RADIUS RETURN	CEDRUS CT
	"CC" 19+99	LT	16'	N/A	00°24'60"	CURB CUT	RESIDENTIAL DRIVEWAY ON CEDRUS CT
F46	"BD–2" 5222+81	RT	25'	41.5'	89°51'08"	RADIUS RETURN	9599 BRAYTON DR
	"BD–2" 5231+87	RT	26'	41.5'	85°40'34"	RADIUS RETURN	9499 BRAYTON DR
F47	"BD–3" 5307+81	RT	20'	41.5'	89°52'20"	RADIUS RETURN	S HEATHER MEADOWS LP
	"BD–3" 5310+01	RT	20'	41.5'	90°00'00"	RADIUS RETURN	MOSS CREEK AVE
	"MC" 18+90	LT	18'	N/A	00°01'47"	CURB CUT	RESIDENTIAL DRIVEWAY ON MOSS CREEK AVE
F48	"BD–3" 5312+00	RT	20'	41.5'	90°00'00"	RADIUS RETURN	N HEATHER MEADOWS LP
	"HD–4" 6404+77	LT	32'	41.5'	89°50'57"	RADIUS RETURN	80TH AVE
F51	"X–SA" 3020+70	LT	34'	16.5'	15°23'32"	RADIUS RETURN	UNIFICATION CHURCH
F101	"X–OM–EB" 2602+82	RT	VARIES	VARIES	07°03'48"	RADIUS RETURN	SEE SHEET G101 FOR PAVEMENT LAYOUT
					TOTAL:	17	
					PAY ITEM QUANTITY:	17	

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SEWARD HIGHWAY:
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SUMMARY TABLES

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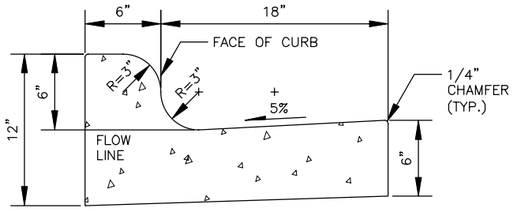
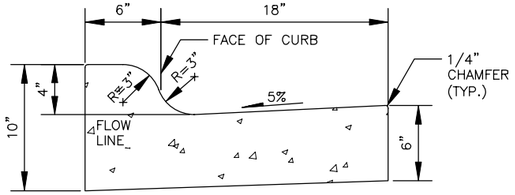
FILE [C:\PW_WORKDIR\DEN001\RK0537776\D0876329\00012_D24_SUM.DWG

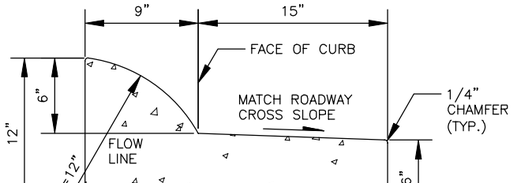
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	E1	E31



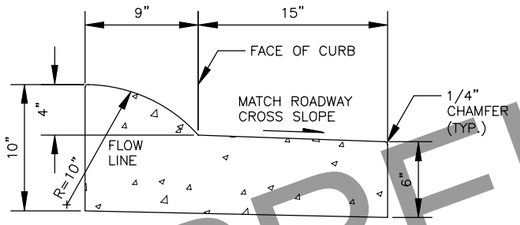
6" MOUNTABLE CURB & GUTTER



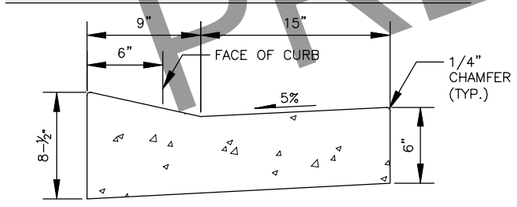
4" MOUNTABLE CURB & GUTTER



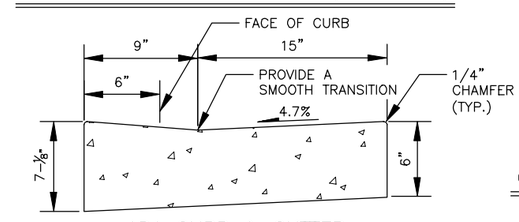
6" EXPRESSWAY CURB & GUTTER (MEDIAN)



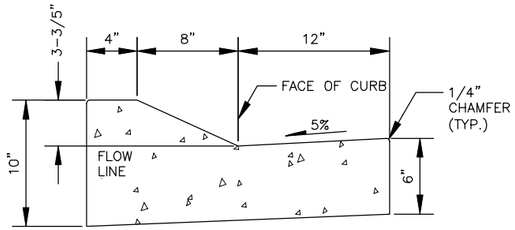
4" EXPRESSWAY CURB & GUTTER (MEDIAN)



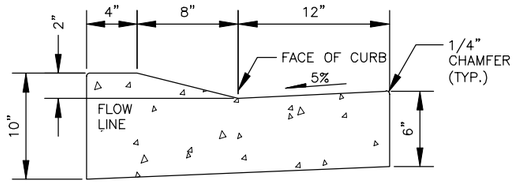
DEPRESSED CURB & GUTTER (CURB CUT)



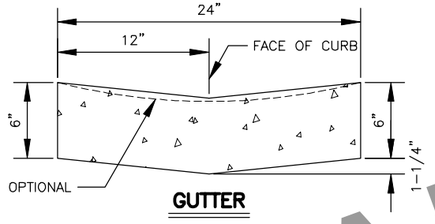
ADA CURB & GUTTER



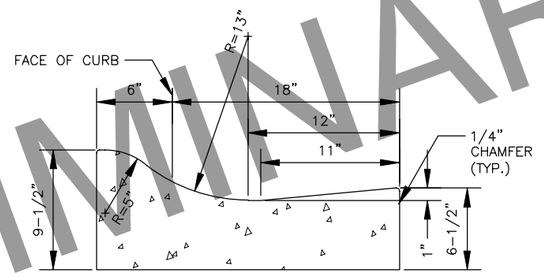
LOW PROFILE CURB & GUTTER



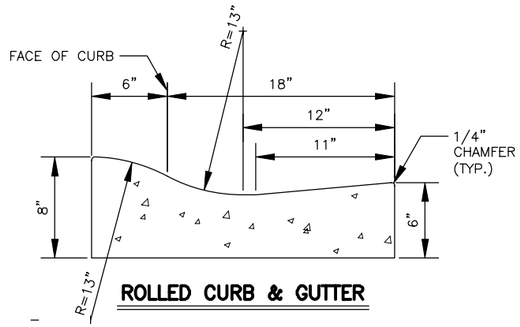
2" LOW PROFILE CURB & GUTTER



GUTTER

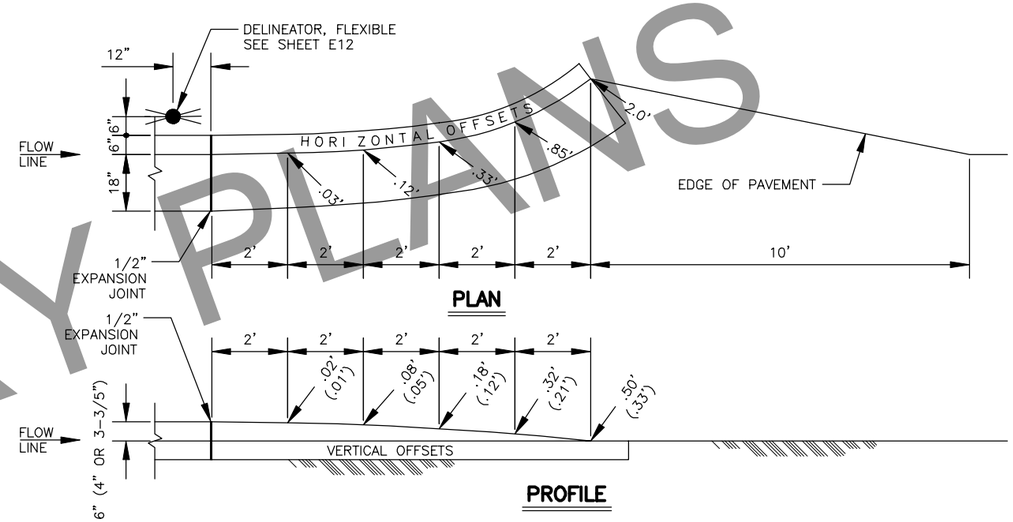


ROUNDABOUT TRUCK APRON CURB & GUTTER



ROLLED CURB & GUTTER

CURBS



CURB & GUTTER TERMINATION TRANSITIONS

TERMINATION NOTES:

1. NUMBERS IN PARENTHESIS ARE FOR 4 INCH MOUNTABLE AND LOW PROFILE CURB & GUTTER.

CURB NOTES:

1. MOUNTABLE, DEPRESSED, ROLLED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPER ELEVATED AREAS.
2. USE THE CURB RAMP CURB & GUTTER FOR ALL CURB RAMPS.

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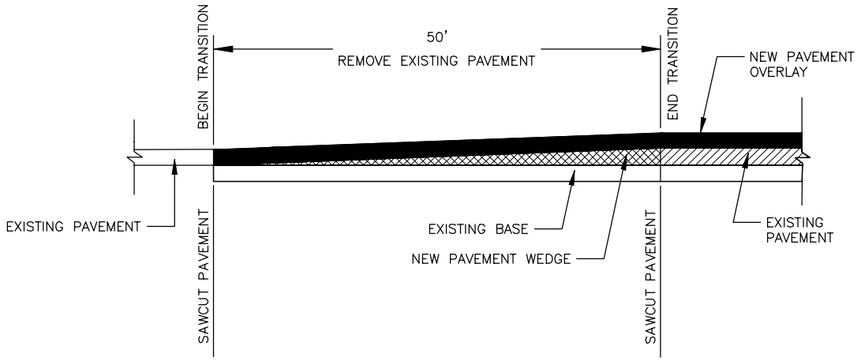
CURB AND GUTTER DETAILS

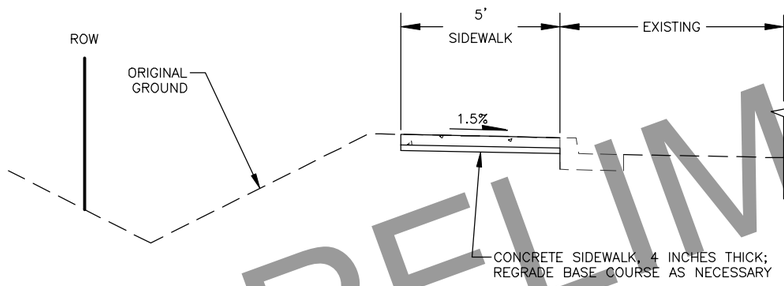
FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_E01_DETAILS.DWG | DATE/TIME | 4/11/2022 10:33 AM | LAYOUT | E1 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E2	E31

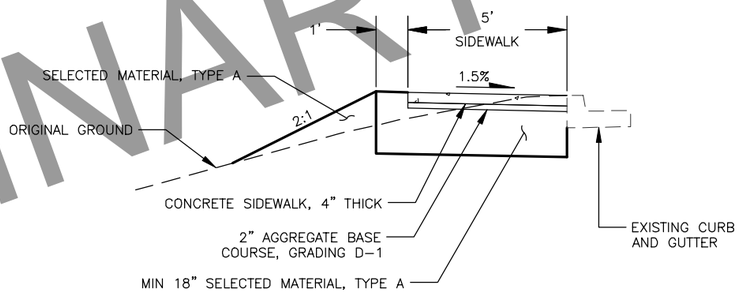


PAVEMENT OVERLAY TRANSITION TO EXISTING PAVEMENT

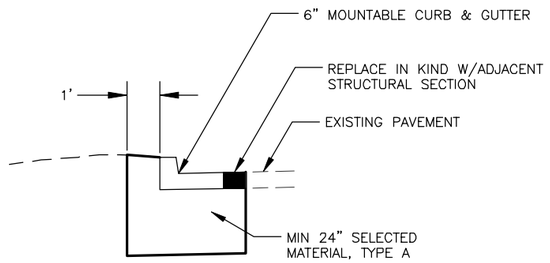


SIDEWALK AT EXISTING CURB AND GUTTER

NOTE: APPLIES ALONG HOMER DRIVE NORTH OF 80TH AVENUE.



SIDEWALK ATTACHED TO EXISTING CURB AND GUTTER



CURB AND GUTTER INSTALLATION

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MISCELLANEOUS DETAILS

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
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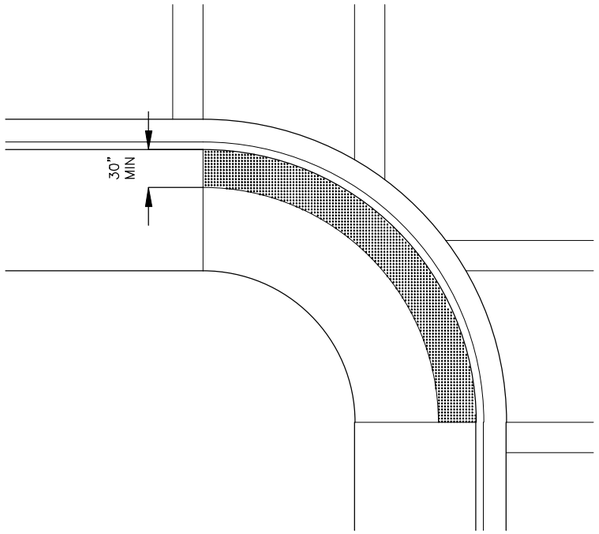
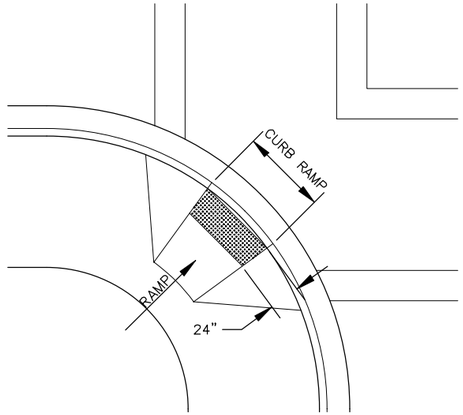


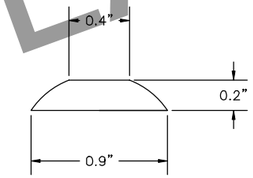
DETECTABLE WARNING AT BLENDED CURB



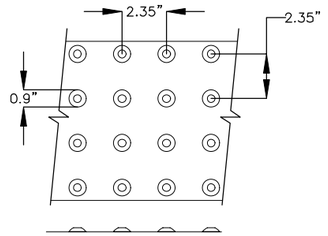
DETECTABLE WARNING AT SHARED CURB

DETECTABLE WARNING NOTES:

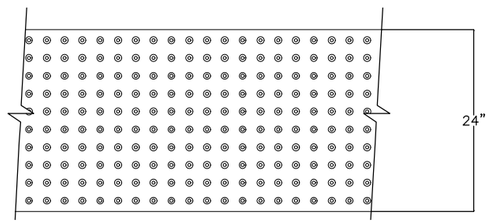
1. DETECTABLE WARNINGS SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.
2. THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUCH AS A RAIL CROSSING.
3. TRUNCATED DOMES SHALL HAVE A DIAMETER OF 0.9 INCH AT THE BOTTOM, A DIAMETER OF 0.4 INCH AT THE TOP, A HEIGHT OF 0.2 INCH AND A CENTER-TO-CENTER SPACING OF 2.35 INCHES MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT.
4. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
5. THERE SHALL BE A MINIMUM OF 70 PERCENT CONTRAST IN LIGHT REFLECTANCE BETWEEN THE DETECTABLE WARNING AND AN ADJOINING SURFACE, OR THE DETECTABLE WARNING SHALL BE "SAFETY YELLOW". THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.
6. PROVIDE DETECTABLE WARNINGS AT ALL CURB RAMPS.



DOME SELECTION

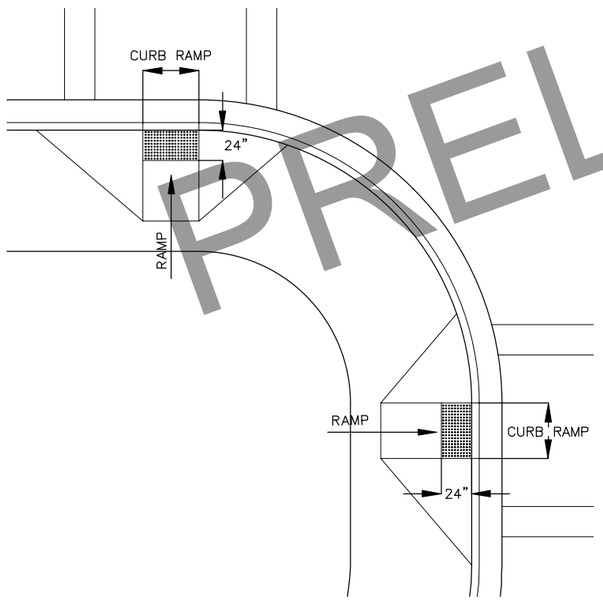


DOME PLAN

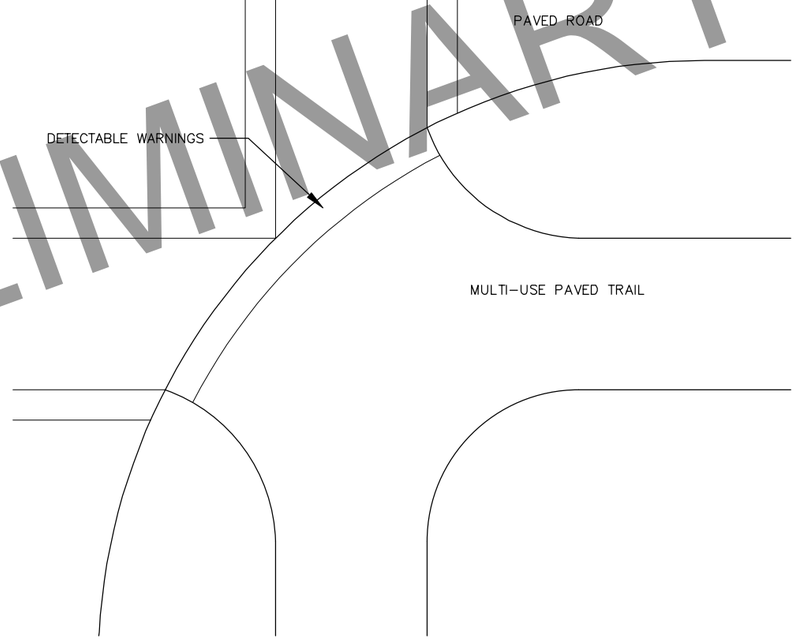


PLAN VIEW OF DETECTABLE WARNING SURFACE

DETECTABLE WARNING SURFACE DETAILS



DETECTABLE WARNING AT CURB RAMP



DETECTABLE WARNING AT MULTI-USE PATH

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CERTIFICATION
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

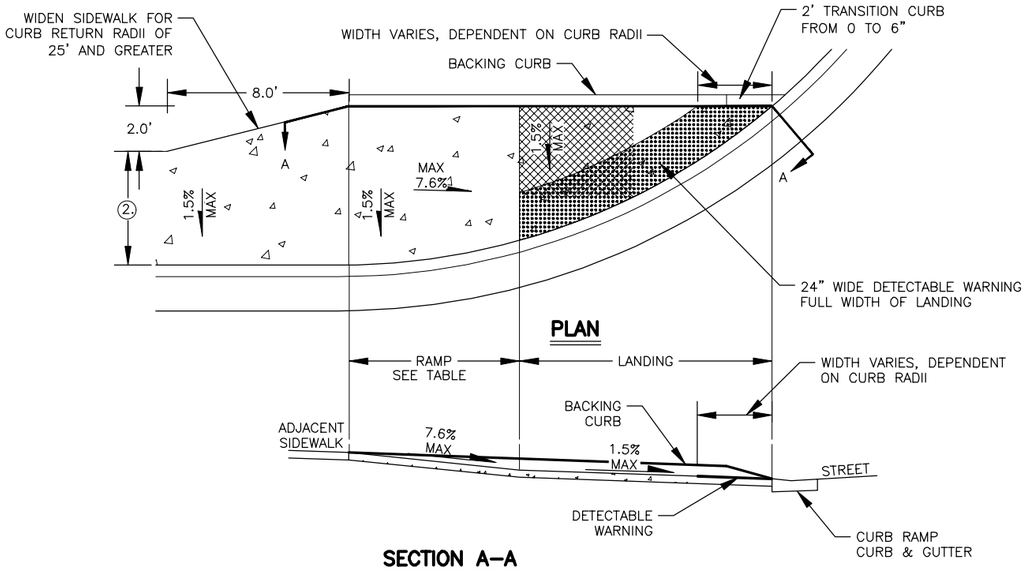
DETECTABLE WARNING DETAILS

DATE/TIME | 4/11/2022 10:33 AM | LAYOUT | E3 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D08763330\00012_E03_DETAILS.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E4	E31

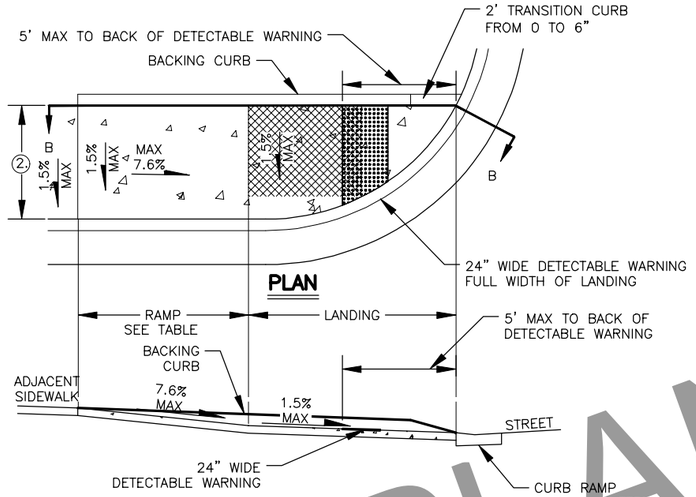


SECTION A–A

FOR CURB RETURN RADII OF 15' OR GREATER

UPHILL SIDEWALK GRADE	RAMP RUN LENGTH
0 TO 1.5%	7.5'
1.51% TO 4.0%	12'
STEEPER THAN 4.0%	15'

DOWNHILL SIDEWALK GRADE	RAMP RUN LENGTH
ALL	7.5'



SECTION B–B

FOR CURB RETURN RADII OF LESS THAN 15'

NOTES:

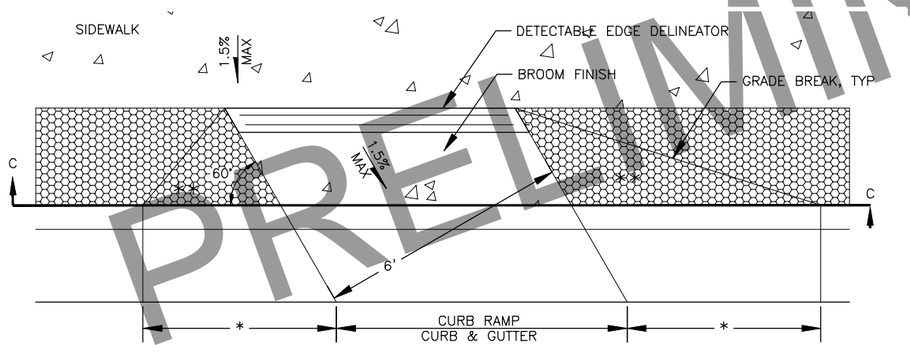
1. CONSTRUCT CURB RAMPS OF MIN 4" THICK CONCRETE REGARDLESS OF WHETHER THE SIDEWALK IS ASPHALT OR CONCRETE. SEE B SHEETS FOR SIDEWALK STRUCTURAL SECTION. PROVIDE COARSE BROOMED FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
2. SEE TYPICAL SECTIONS FOR SIDEWALK WIDTH.
3. CONSTRUCT RAMPS FREE OF OBSTRUCTIONS, SUCH AS MANHOLES OR UTILITY JUNCTION BOXES.
4. WHERE MANUFACTURED RADIAL DETECTABLE WARNINGS ARE NOT AVAILABLE, CUT DETECTABLE WARNINGS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO PROVIDE RADIAL DETECTABLE WARNINGS. WHERE POSSIBLE, PLACE FINISHED EDGES ON THE OUTER BOUNDARIES OF THE DETECTABLE WARNINGS.
5. BACKING CURB MAY BE OMITTED AT THE DISCRETION OF THE ENGINEER. PAYMENT FOR BACKING CURB WILL BE MADE UNDER THE BID ITEM "CURB RAMP" AND NO ADDITIONAL PAYMENT WILL BE MADE.

LEGEND

MIN. 4' X 5' LANDING AREA (LONGER DIMENSION IN DIRECTION OF RAMP TRAVEL)

DETECTABLE WARNING

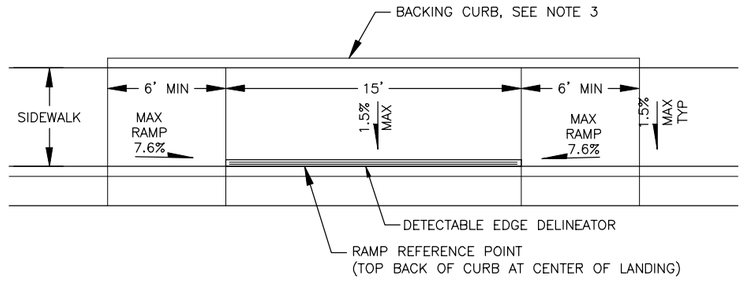
UNIDIRECTIONAL CURB RAMP DETAIL



* TRANSITION CURB AND GUTTER

** TRANSITION ADJACENT SURFACE

SEPARATED SIDEWALK



ATTACHED SIDEWALK

NOTES:

1. CONSTRUCT RAMPS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE CURB AND CONSTRUCT LANDINGS WITH A BROOM FINISH RUNNING PARALLEL TO THE CURB.
2. SIDEWALK CROSS SLOPE NOT TO EXCEED 1.5%.
3. ATTACHED SIDEWALK: BACKING CURB MAY BE OMITTED AT THE DISCRETION OF THE ENGINEER. PAYMENT FOR BACKING CURB WILL BE MADE UNDER THE BID ITEM "CURB RAMP" AND NO ADDITIONAL PAYMENT WILL BE MADE.

BIKE RAMP DETAIL

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

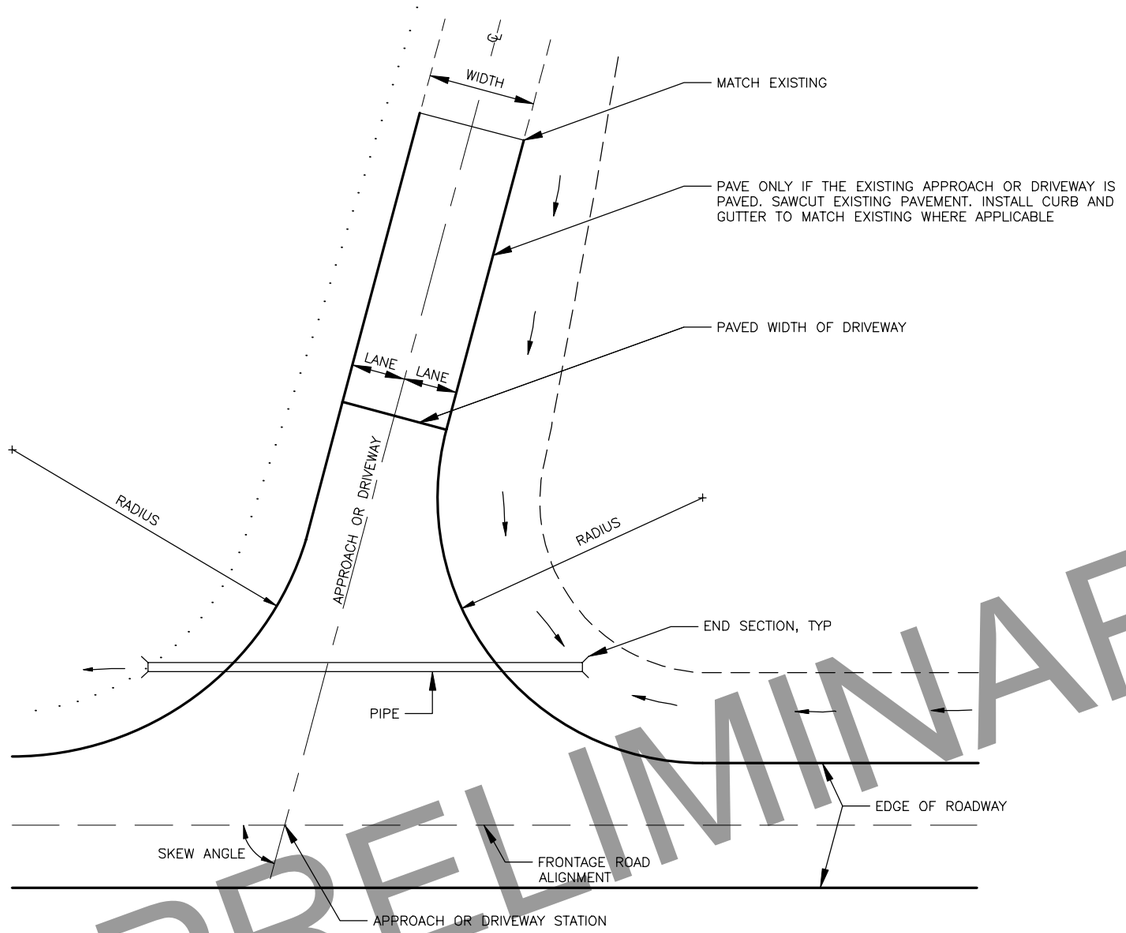
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

CURB RAMP DETAILS

FILE [C:\PW_WORKDIR\DEN001\RK0537776\D08763330\00012_E04_DETAILS.DWG
DATE/TIME 4/11/2022 10:33 AM | LAYOUT E4 | DESIGNED EV | CHECKED MR | DRAFTED RM

NO.	DATE	REVISION

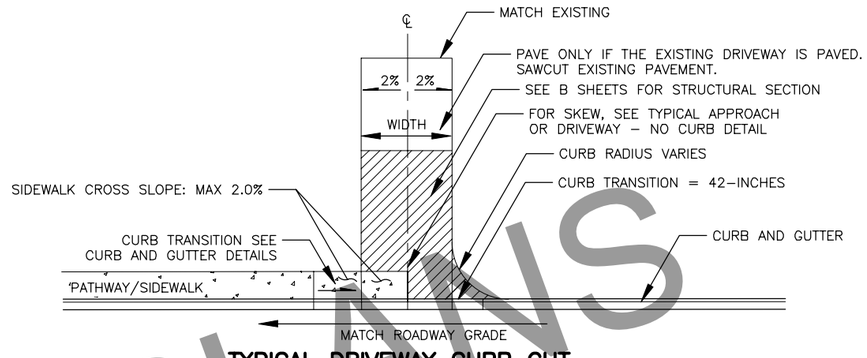
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E5	E31



TYPICAL APPROACH OR DRIVEWAY – NO CURB

NTS

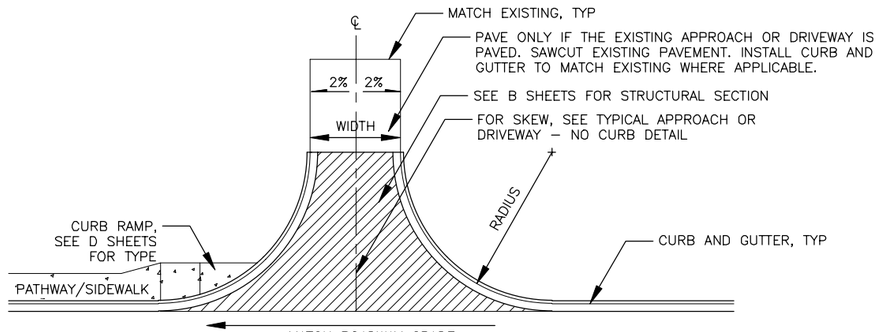
WITH SIDEWALK **WITHOUT SIDEWALK**



TYPICAL DRIVEWAY CURB CUT

NTS

WITH SIDEWALK **WITHOUT SIDEWALK**



TYPICAL APPROACH OR DRIVEWAY CURB RETURN

NTS

NOTES:

1. SEE APPROACH AND DRIVEWAY SUMMARY TABLES IN THE D SHEETS FOR APPROACH OR DRIVEWAY STATION, RADII, WIDTH, AND SKEW ANGLE.
2. APPROACHES: SEE B, E, AND F SHEETS FOR APPROACH TYPICAL SECTIONS AND PLAN AND PROFILE VIEWS.
3. DRIVEWAYS: SEE F SHEETS FOR DRIVEWAY PROFILES.
4. WRAP APPROACH OR DRIVEWAY FORESLOPE TO MATCH ROADWAY TYPICAL FORESLOPE WITHIN LENGTH OF RETURN RADIUS.
5. ACROSS EXISTING PAVED SURFACES, PAVE SLOPE TO MATCH EXISTING AT 6:1 (H:V).
6. PLACE GEOTEXTILE BELOW NEW EMBANKMENT AS DIRECTED BY THE ENGINEER.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

APPROACH AND DRIVEWAY DETAILS

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E5 | DESIGNED EV | CHECKED MR | DRAFTED RM
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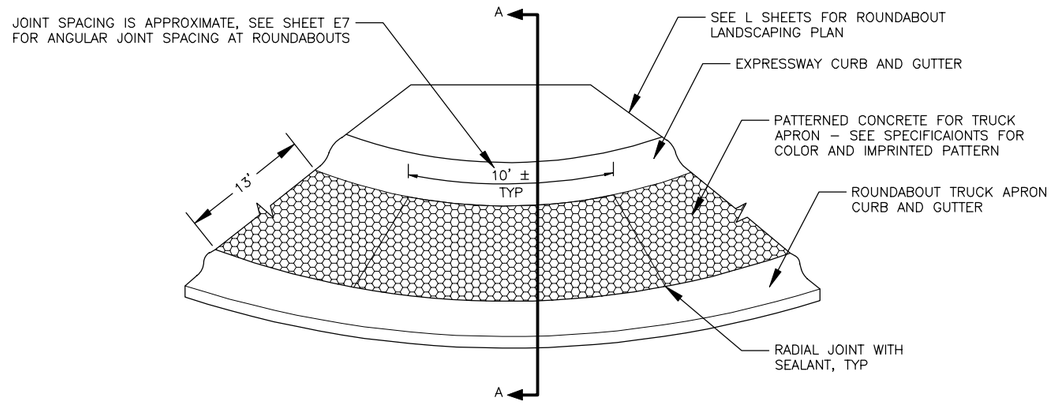
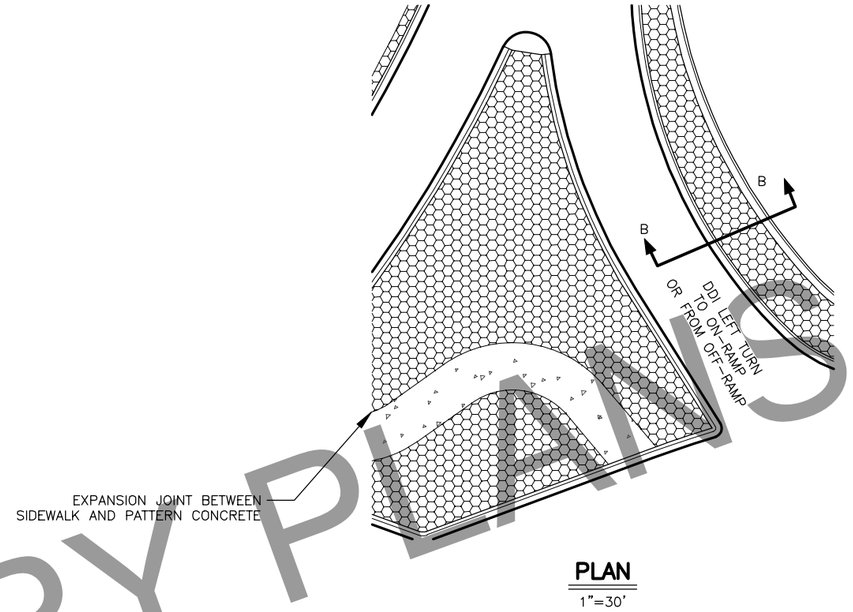
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E6	E31

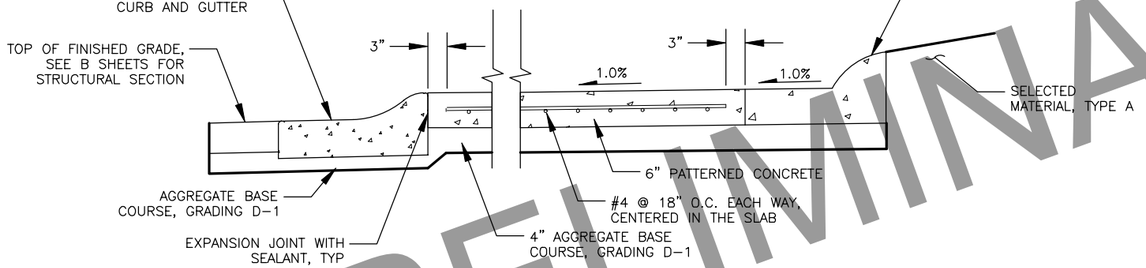


ISOMETRIC



PLAN

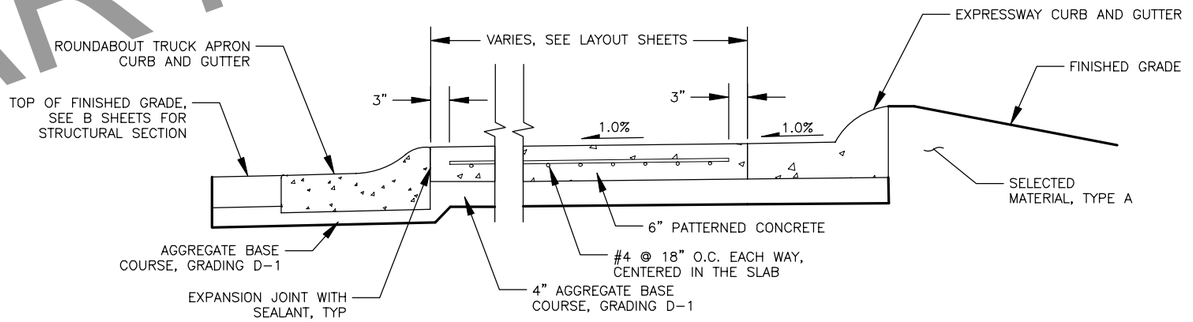
1"=30'



SECTION A–A

ROUNDABOUT TRUCK APRON DETAIL

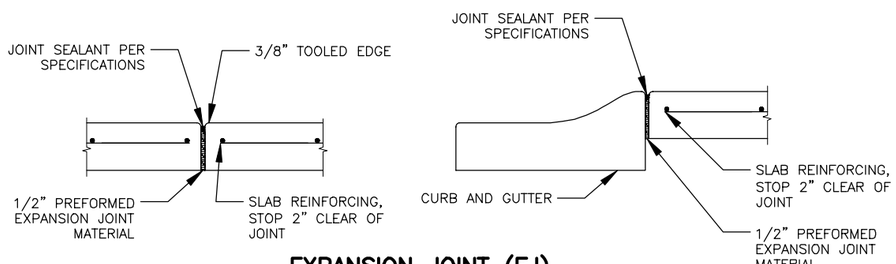
NTS



SECTION B–B

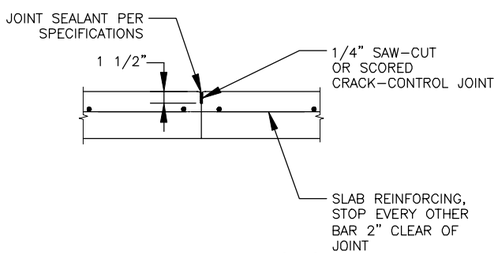
DDI TRUCK APRON DETAIL

NTS



EXPANSION JOINT (EJ)

NTS



CONTROL JOINT (CJ)

NTS

NOTES:

1. DDI TRUCK APRON DETAIL APPLIES AT RAMPS OM–1, OM–2, OM–3, AND OM–4.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRUCK APRON DETAILS

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E6 | DESIGNED EV | CHECKED MR | DRAFTED RM
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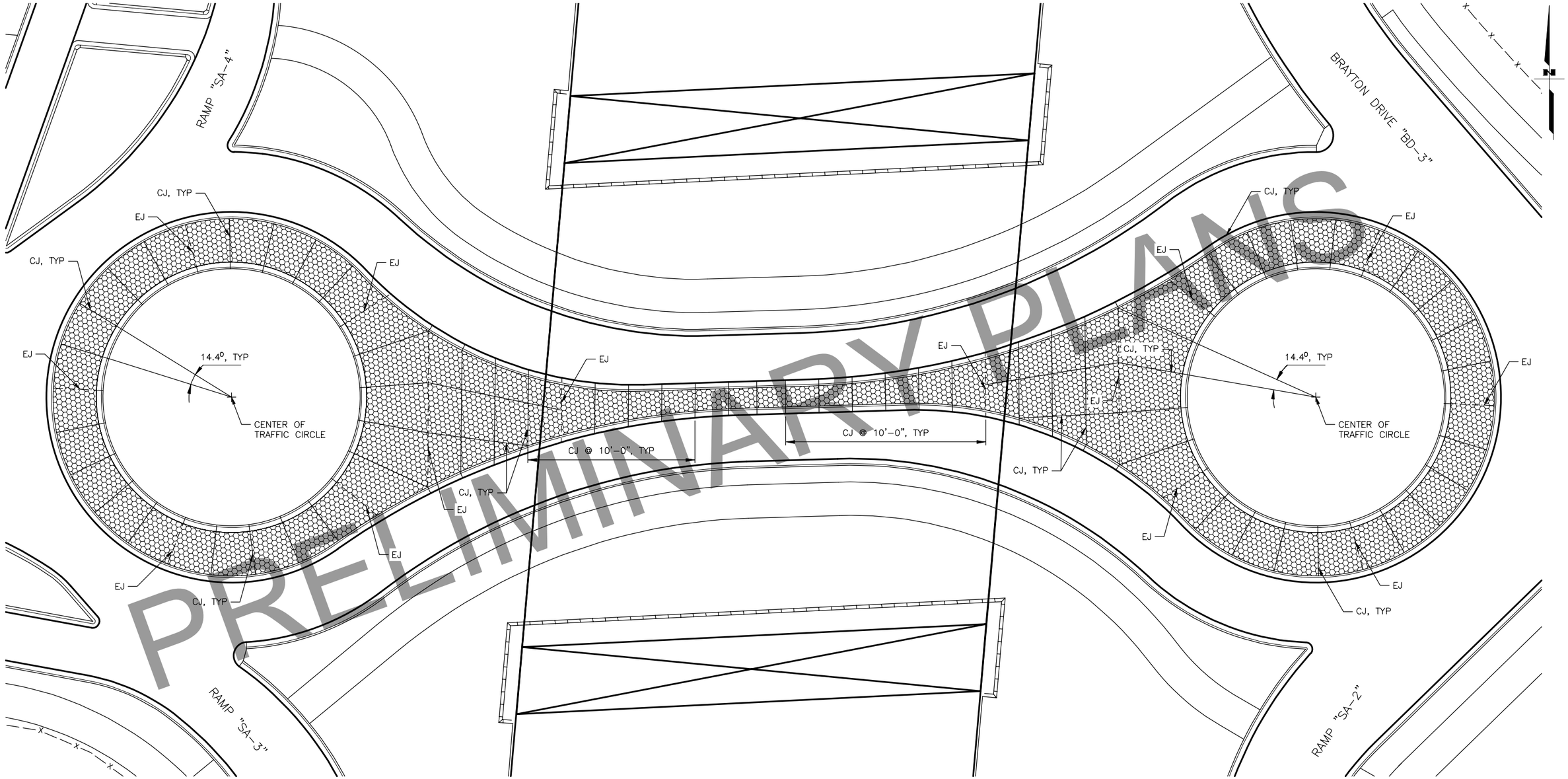
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E7	E31



LEGEND

EXPANSION JOINT, EJ, SEE SHEET E6

CONTROL JOINT, CJ (SAW-CUT OR SCORED), SEE SHEET E6

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

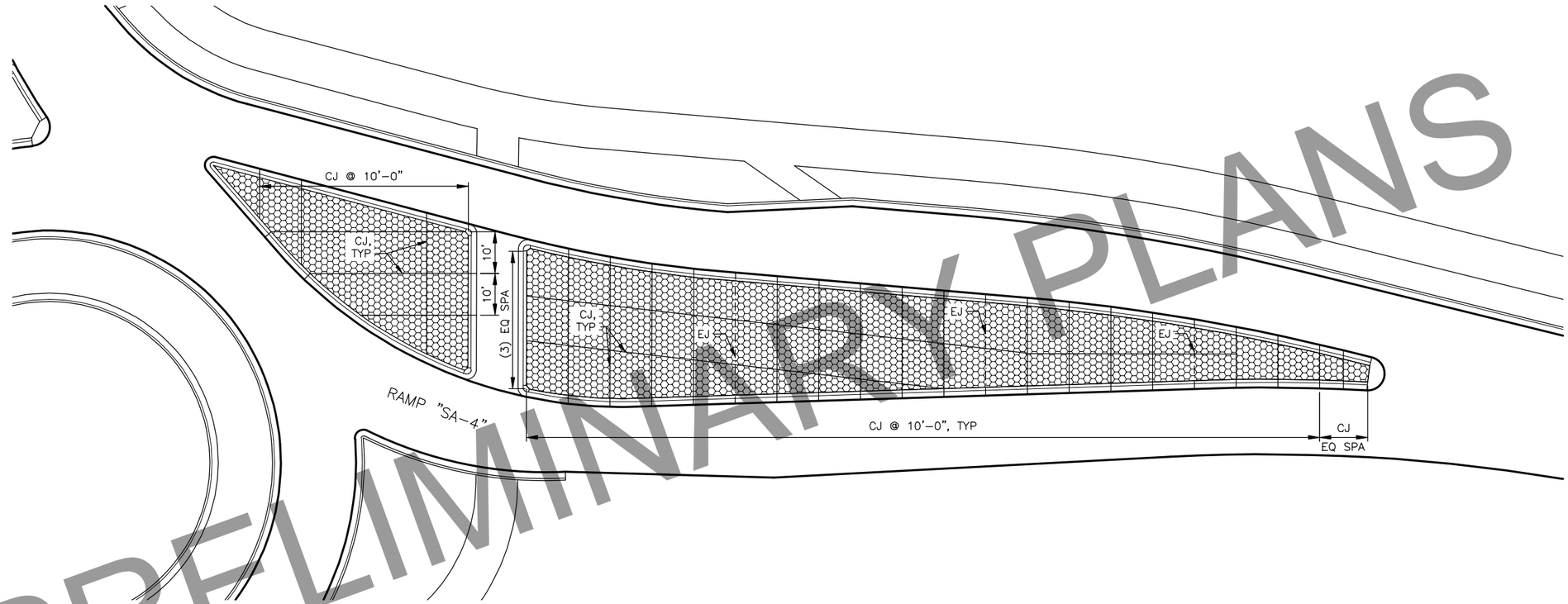
ROUNDABOUT CENTRAL ISLAND EXPANSION JOINT DETAILS

DATE/TIME | 4/11/2022 10:34 AM | LAYOUT | E7 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RC053776\D08763330\00012_E07_DETAILS.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E8	E31



LEGEND

-·-·-·-·- EXPANSION JOINT, EJ, SEE SHEET E6

———— CONTROL JOINT, CJ (SAW-CUT OR SCORED), SEE SHEET E6

STATE OF ALASKA
49TH
CERTIFICATION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ROUNDABOUT SPLITTER ISLAND EXPANSION JOINT DETAILS

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E8 | DESIGNED EV | CHECKED MR | DRAFTED RM
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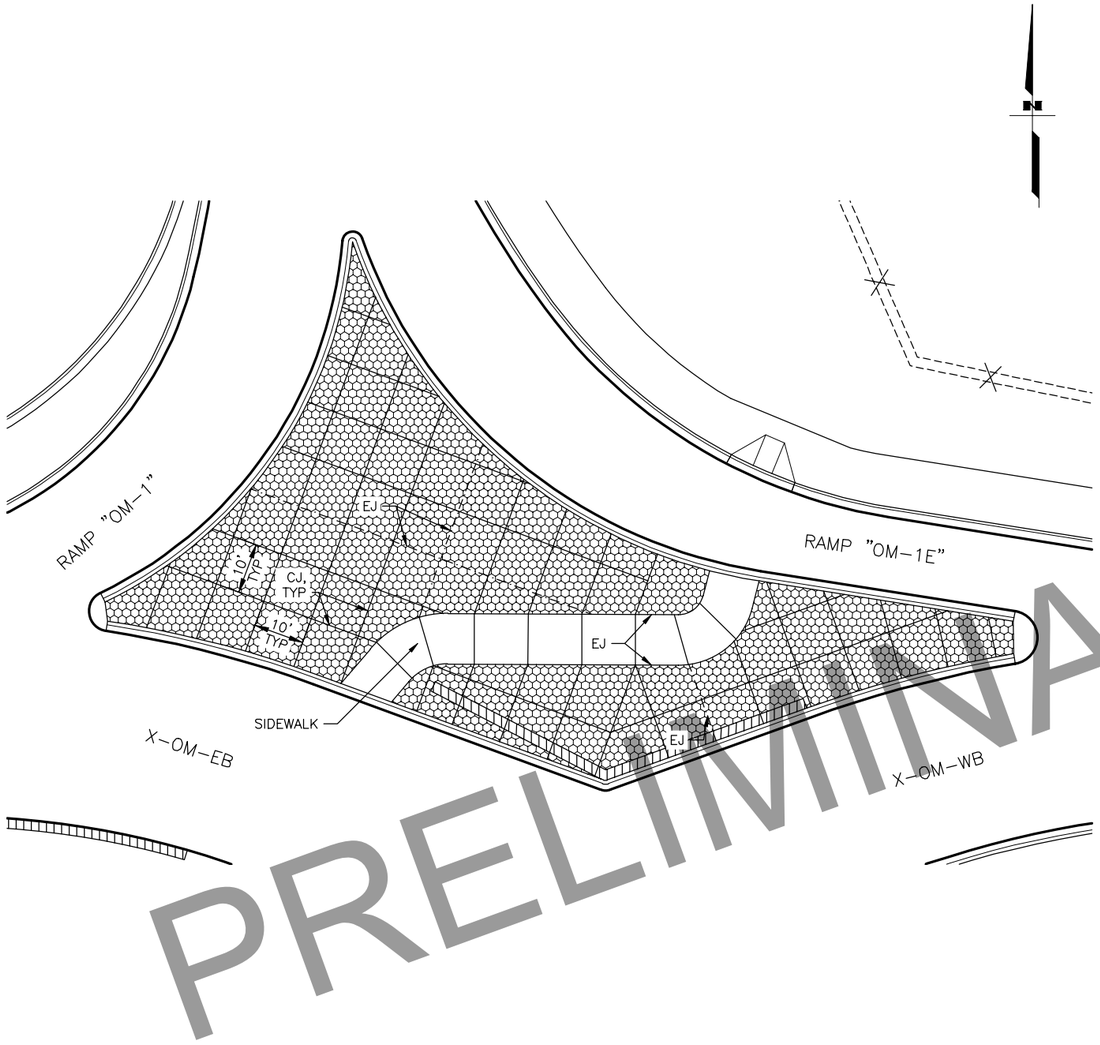
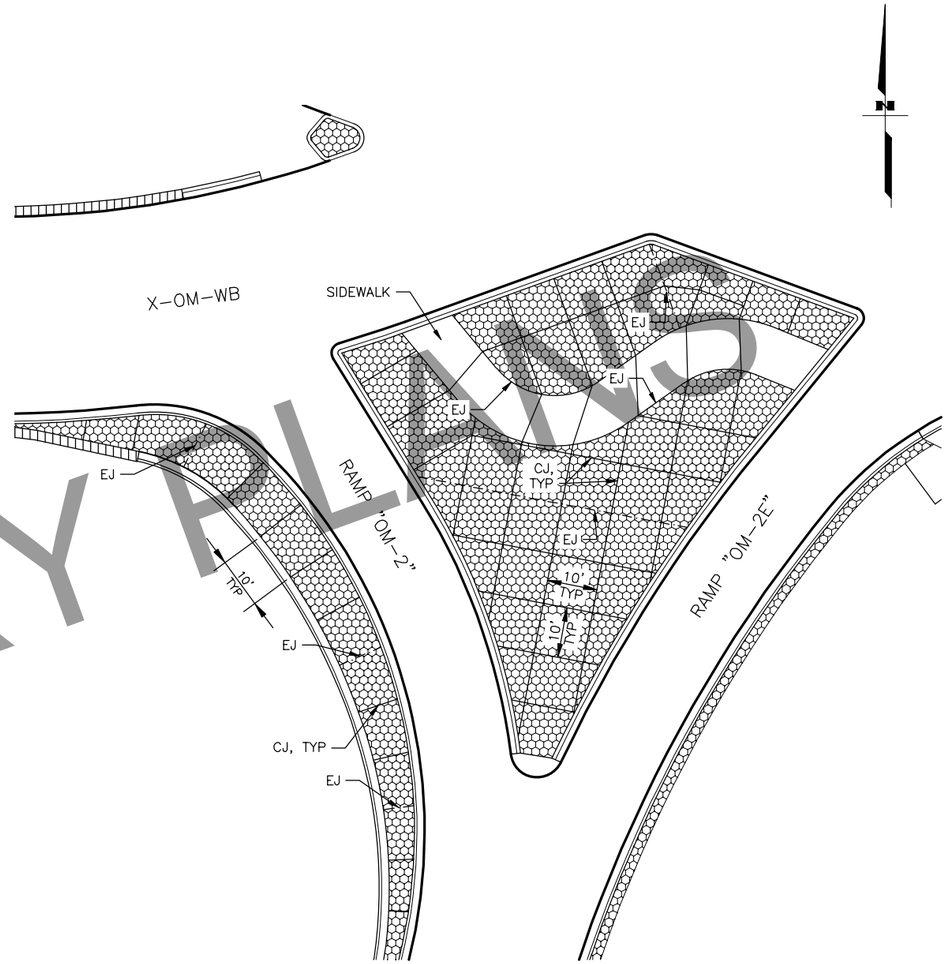
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E9	E31





LEGEND

EXPANSION JOINT, EJ, SEE SHEET E6

CONTROL JOINT, CJ (SAW-CUT OR SCORED), SEE SHEET E6

STATE OF ALASKA
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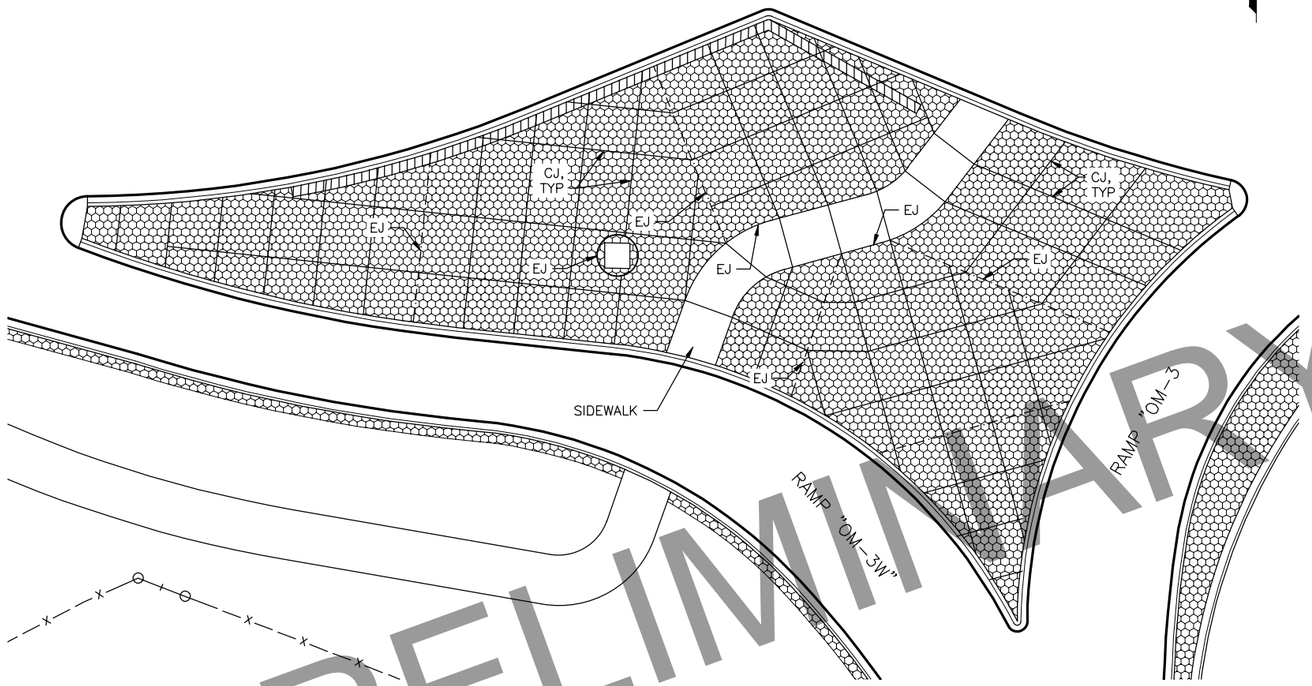
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

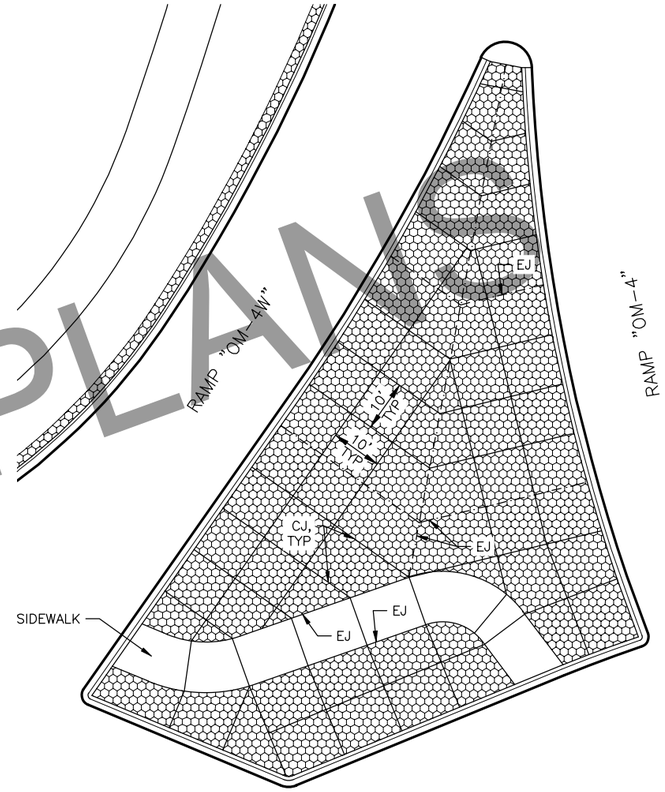
O'MALLEY EXPANSION JOINT DETAILS

DATE/TIME | 4/11/2022 10:34 AM | LAYOUT | E9 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763.30\000012_E09_DETAILS.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E10	E31





LEGEND

EXPANSION JOINT, EJ, SEE SHEET E6

CONTROL JOINT, CJ (SAW-CUT OR SCORED), SEE SHEET E6

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

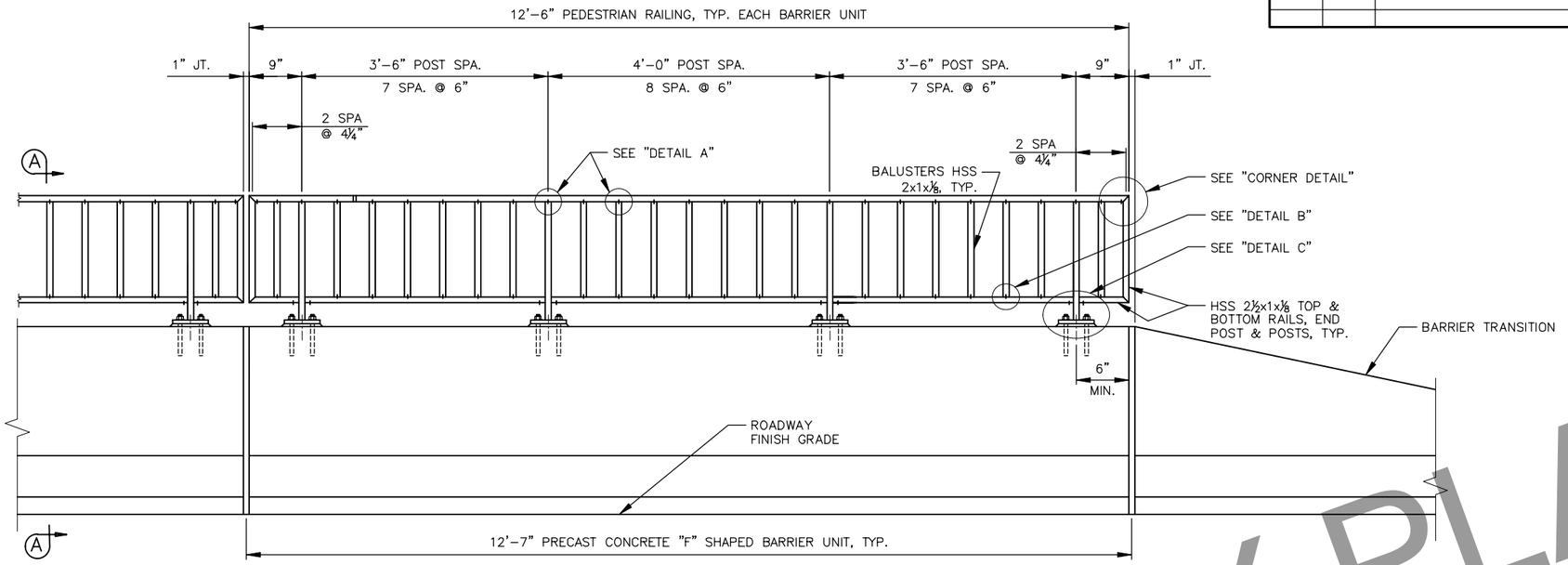
O'MALLEY EXPANSION JOINT DETAILS

DATE/TIME | 4/11/2022 10:34 AM | LAYOUT | E10 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763301\000012_E10_DETAILS.DWG

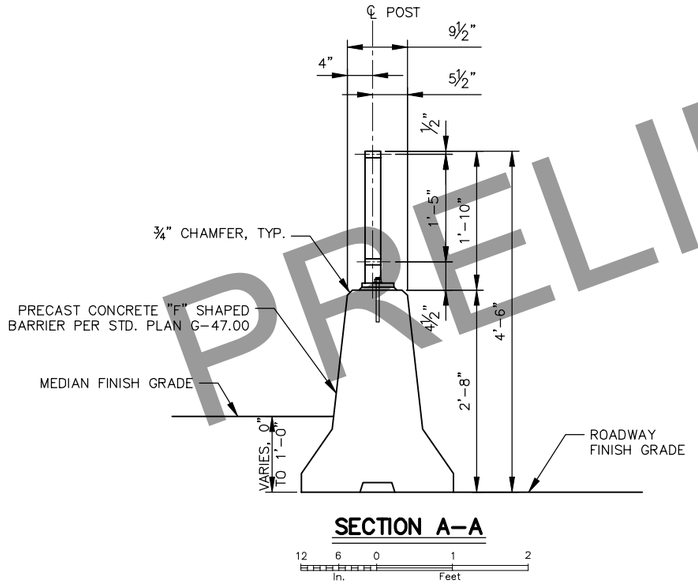
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E11	E31



PEDESTRIAN RAILING ELEVATION

12 6 0 1 2
In. Feet

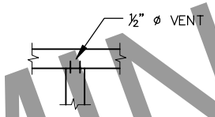


SECTION A–A

12 6 0 1 2
In. Feet

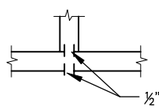
NOTES:

1. PROVIDE CONTINUOUS BOTTOM HORIZONTAL RAIL ELEMENT BETWEEN POSTS.
2. PROVIDE CONTINUOUS TOP HORIZONTAL RAIL ELEMENTS.



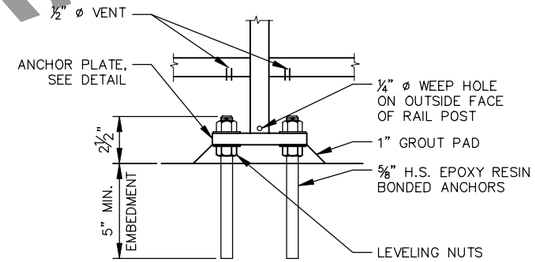
DETAIL A

NO SCALE



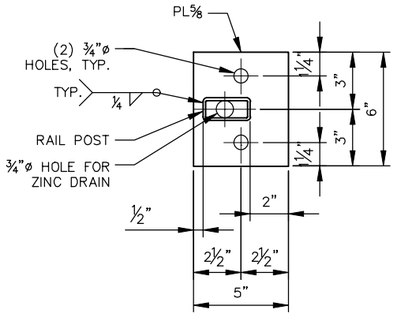
DETAIL B

NO SCALE



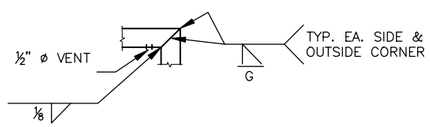
DETAIL C

NO SCALE



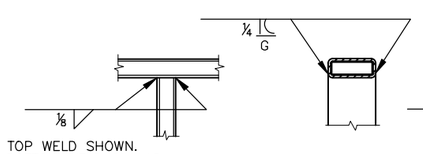
ANCHOR PLATE

6 3 0 1
In. Feet

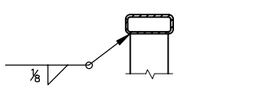


CORNER DETAIL

NO SCALE



POST DETAIL



BALUSTER DETAILS

TYPICAL WELD DETAILS

NO SCALE

STATE OF ALASKA
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REGISTERED PROFESSIONAL ENGINEER

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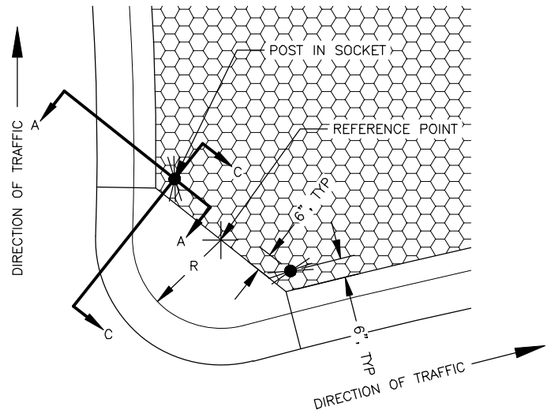
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

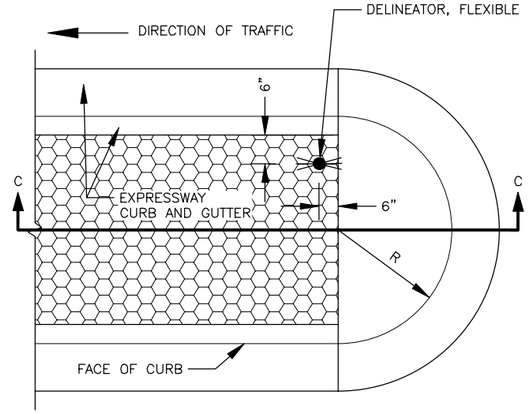
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

PEDESTRIAN RAILING

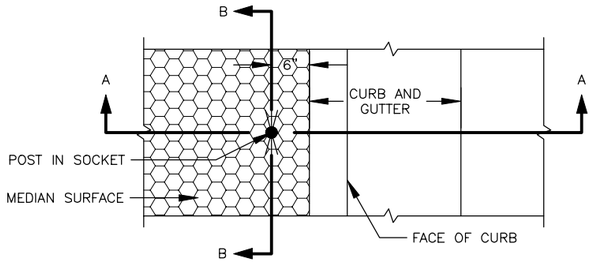
DATE/TIME | 4/11/2022 10:34 AM | LAYOUT | E11 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_E11_DETAILS.DWG



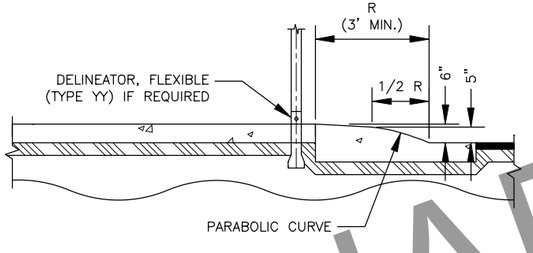
PLAN ISLAND NOSE



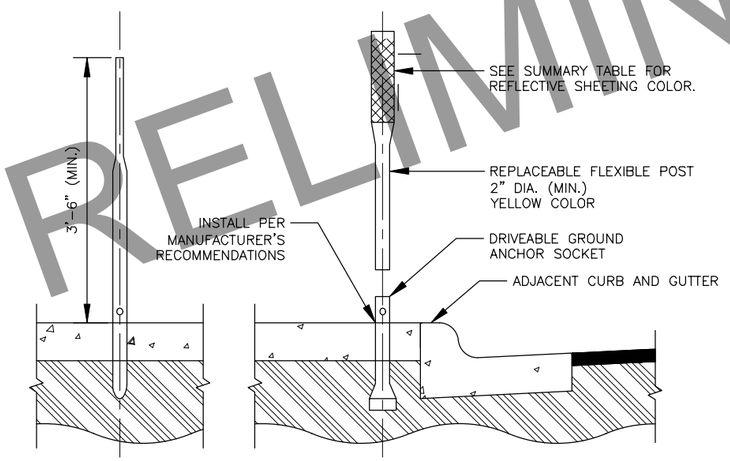
PLAN MEDIAN NOSE



PLAN OTHER LOCATION



SECTION C–C



SECTION B–B

SECTION A–A

NOSE AND FLEXIBLE DELINEATOR DETAILS

DELINEATOR NOTES:

1. INSTALL DELINEATORS WHERE SHOWN IN THE SUMMARY TABLE, OR AS DIRECTED BY THE ENGINEER.
2. CENTER POINT OF THE DELINEATOR SHALL BE 6 INCHES FROM THE BACK OF CURB.
3. WHERE DELINEATORS ARE SET IN CONCRETE PAVEMENT, PLACE THEM IN EXPANSION JOINTS.

SLOPED MEDIAN NOTES:

1. MEDIAN NOSE MARKINGS SHALL MATCH THE APPROACH TO MEDIAN MARKING COLOR. PAINT ALL SLOPED MEDIAN NOSES SPLITTING TWO LANES OF TRAFFIC IN THE SAME DIRECTION WITH WHITE REFLECTORIZED PAINT. PAINT FOR SLOPED MEDIAN NOSES IS SUBSIDIARY TO 670 ITEMS.
2. THE RADIUS DIMENSIONS PROVIDED IN THE PLANS ARE MEASURED TO LIP OF CURB. CONTRACTOR WILL NEED TO CALCULATE THE VALUE OF "R" FROM RADIUS DIMENSION AND CURB GEOMETRY.

DELINEATOR, FLEXIBLE – 615.0005.0000

SHEET	STATION	OFFSET	REMARKS
HS2	"OM–2" 2103+05	23.0' LT	YELLOW
	"OM–2" 2206+66	24.5' LT	YELLOW
HS6	"BD–3" 5302+62.6	6.5' LT	YELLOW
	"SA–3" 3317+57.0	20.5' RT	YELLOW
HS8	"DI–4" 4401+48.7	14.5' LT	WHITE
	"DI–4" 4401+49.4	19.5' LT	WHITE
	"X–OM–EB" 2602+91.9	37.5' LT	WHITE
	"X–OM–EB" 2603+06.7	43.6' LT	YELLOW
	"X–OM–EB" 2603+36.7	37.5' LT	WHITE
	"X–OM–EB" 2603+55.7	46.0' LT	YELLOW
	"X–OM–EB" 2603+56.3	41.0' LT	WHITE
	"X–OM–EB" 2603+12.8	16.5' LT	YELLOW
	"X–OM–EB" 2603+38.4	18.0' LT	YELLOW
	"X–OM–EB" 2603+59.3	16.5' LT	YELLOW
	"X–OM–EB" 2604+14.8	22.8' LT	YELLOW
	"X–OM–EB" 2604+09.3	31.3' LT	YELLOW
	"X–OM–EB" 2604+69.2	30.5' LT	YELLOW
	"X–OM–EB" 2604+78.8	46.9' LT	YELLOW
	"X–OM–EB" 2605+47.9	30.5' LT	YELLOW
	"X–OM–EB" 2605+46.1	64.7' LT	YELLOW
	"X–OM–EB" 2605+99.5	30.5' LT	YELLOW
	"X–OM–EB" 2606+10.3	59.5' LT	YELLOW
	"X–OM–EB" 2606+56.1	30.5' LT	YELLOW
	"X–OM–EB" 2606+57.3	33.3' LT	YELLOW
	"X–OM–EB" 2605+74.7	26.6' RT	YELLOW
	"X–OM–EB" 2605+75.8	21.2' RT	WHITE
	"X–OM–EB" 2606+11.6	22.2' RT	WHITE
HS101	"X–OM–EB" 2606+22.9	50.9' RT	YELLOW
	"X–OM–EB" 2606+80.1	88.4' RT	YELLOW
	"X–OM–EB" 2607+08.4	144.3' RT	YELLOW
	"X–OM–EB" 2607+17.3	32.4' RT	YELLOW
	"X–OM–EB" 2607+11.6	144.9' RT	WHITE
	"X–OM–EB" 2607+33.2	116.5' RT	WHITE
	"X–OM–EB" 2607+82.1	92.0' RT	WHITE
	"X–OM–EB" 2607+82.9	89.0' RT	YELLOW
	"X–OM–EB" 2607+71.5	26.5' RT	WHITE
	"X–OM–EB" 2607+73.4	22.0' RT	WHITE
	"X–OM–EB" 2607+19.5	30.5' LT	YELLOW
	"X–OM–EB" 2607+14.6	32.5' LT	WHITE
	"X–OM–EB" 2606+89.2	57.9' LT	WHITE
	"X–OM–EB" 2606+89.5	61.1' LT	YELLOW
	"X–OM–EB" 2607+86.5	30.5' LT	YELLOW
	"X–OM–EB" 2607+88.6	32.9' LT	WHITE
	"X–OM–EB" 2607+52.0	101.2' LT	YELLOW
	"X–OM–EB" 2607+90.4	87.6' LT	WHITE
	"X–OM–EB" 2607+94.1	146.7' LT	YELLOW
	"X–OM–EB" 2607+97.1	144.2' LT	WHITE
	"X–OM–EB" 2607+95.1	214.7' LT	WHITE

DELINEATOR, FLEXIBLE – 615.0005.0000

SHEET	STATION	OFFSET	REMARKS
	"X–OM–EB" 2608+16.7	98.4' LT	YELLOW
	"X–OM–EB" 2607+19.1	231.4' RT	YELLOW
	"X–OM–EB" 2606+76.8	238.0' RT	WHITE
	"X–OM–EB" 2611+90.0	66.1' RT	WHITE
	"X–OM–EB" 2611+89.2	63.4' RT	YELLOW
	"X–OM–EB" 2612+47.9	126.0' RT	WHITE
	"X–OM–EB" 2612+53.3	124.9' RT	YELLOW
	"X–OM–EB" 2612+78.5	25.4' RT	YELLOW
	"X–OM–EB" 2612+76.9	23.5' RT	WHITE
	"X–OM–EB" 2612+35.0	25.3' RT	YELLOW
	"X–OM–EB" 2612+40.1	23.5' RT	WHITE
	"X–OM–EB" 2611+28.3	20.5' LT	YELLOW
	"X–OM–EB" 2611+27.5	23.5' LT	WHITE
	"X–OM–EB" 2611+50.1	59.7' LT	WHITE
	"X–OM–EB" 2611+53.0	96.3' LT	WHITE
	"X–OM–EB" 2611+54.7	97.3' LT	YELLOW
	"X–OM–EB" 2612+08.7	66.1' LT	YELLOW
HS102	"X–OM–EB" 2612+94.0	76.9' LT	YELLOW
	"X–OM–EB" 2612+97.7	71.6' LT	WHITE
	"X–OM–EB" 2612+60.1	47.9' LT	WHITE
	"X–OM–EB" 2612+17.0	20.5' LT	YELLOW
	"X–OM–EB" 2612+88.3	19.4' LT	YELLOW
	"X–OM–EB" 2612+89.4	16.5' LT	YELLOW
	"X–OM–EB" 2613+69.7	16.5' LT	YELLOW
	"X–OM–EB" 2613+70.4	45.0' LT	YELLOW
	"X–OM–EB" 2614+45.8	20.0' LT	YELLOW
	"X–OM–EB" 2614+47.6	33.5' LT	YELLOW
	"X–OM–EB" 2615+19.5	23.2' LT	YELLOW
	"X–OM–EB" 2615+20.4	29.1' LT	YELLOW
	"X–OM–EB" 2611+74.7	25.8' RT	WHITE
	"X–OM–EB" 2611+73.2	22.0' RT	WHITE
	"X–OM–EB" 2612+77.7	173.0' RT	WHITE
HS201	"X–SA" 3007+31.0	5.4' LT	WHITE
	"X–SA" 3008+32.0	5.4' RT	WHITE
	"X–SA" 3010+85.9	27.5' RT	WHITE
	"X–SA" 3010+86.4	20.5' RT	WHITE
HS202	"X–SA" 3011+88.3	13.3' LT	WHITE
	"X–SA" 3011+91.2	11.1' LT	WHITE
	"SA–3" 3318+84.3	17.6' RT	WHITE
	"SA–4" 3403+39.2	2.5' LT	WHITE
	"SA–4" 3403+39.5	5.6' LT	WHITE
	"SA–4" 3401+48.6	21.0' RT	YELLOW
HS203	"X–SA" 3016+85.2	8.0' RT	WHITE
	"X–SA" 3016+87.7	10.5' RT	WHITE
	"BD–3" 5301+05.9	4.5' LT	WHITE
	"SA–2" 3217+91.9	16.8' LT	YELLOW
HS204	"X–SA" 3022+08.3	3.0' LT	YELLOW

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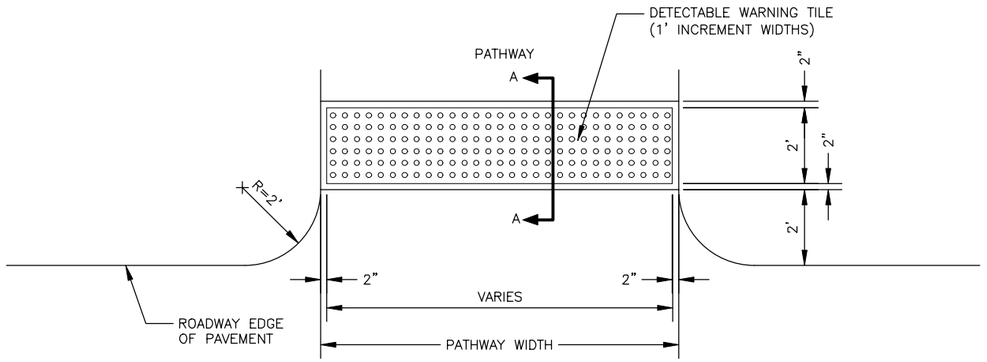
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

MEDIAN AND DELINEATOR
DETAILS

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E12 | DESIGNED EV | CHECKED MR | DRAFTED RM
FILE C:_PW_WORKDIR_DEN001\RK053776\D0876330\000012_E12_DETAILS.DWG

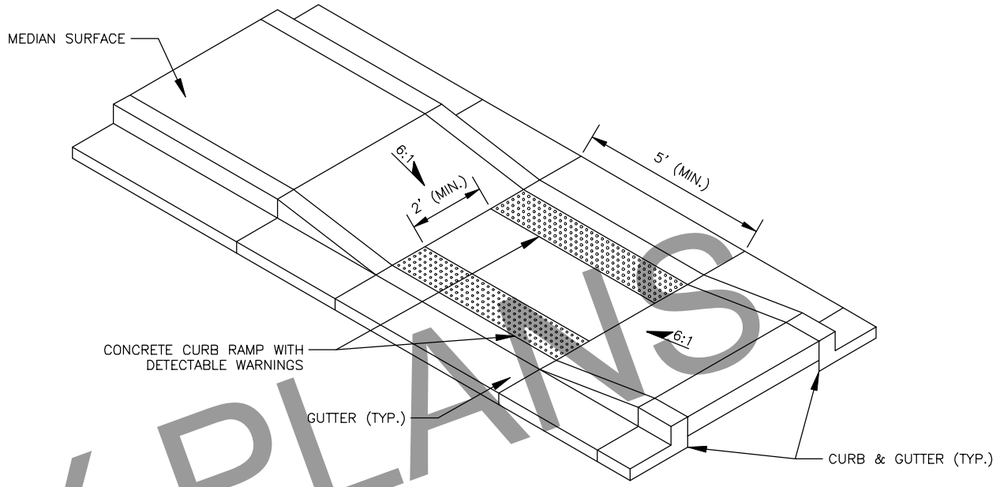
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	E13	E31



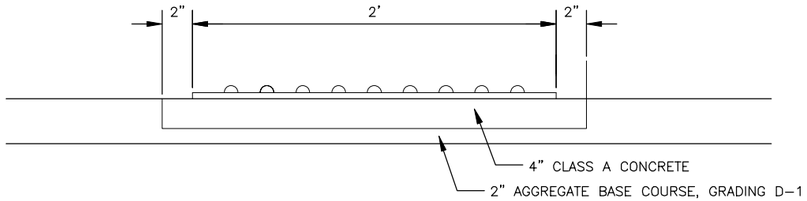
ASPHALT PATHWAY DETECTABLE WARNING DETAIL

DETECTABLE WARNING NOTES

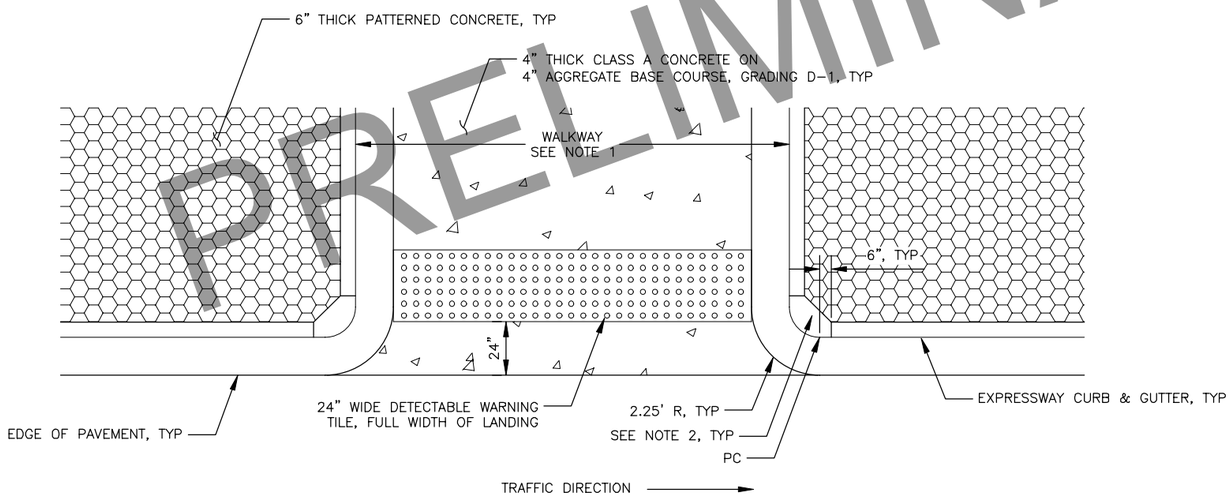
1. SEE STANDARD PLAN I–21.12 FOR ADDITIONAL REQUIREMENTS OF DETECTABLE WARNING TILES.
2. SEE CURB RAMP SUMMARY FOR INSTALLATION LOCATIONS.



RAISED MEDIAN CURB RAMP



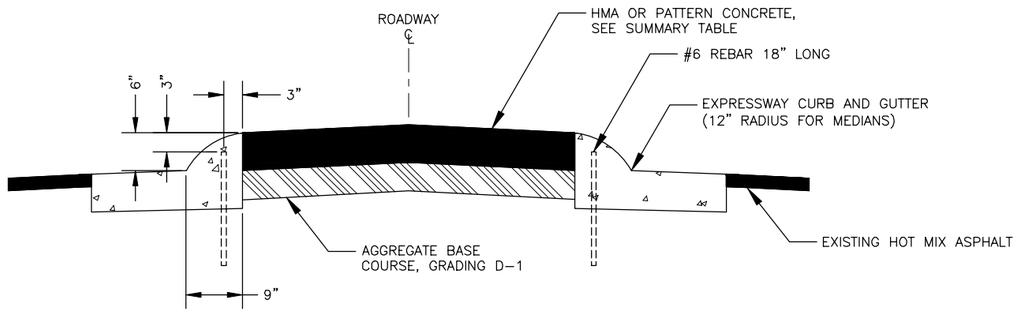
SECTION A–A



MEDIAN WALKWAY DETAIL

MEDIAN WALKWAY DETAIL NOTES:

1. CONSTRUCT WALKWAY SUCH THAT CROSS SLOPE IS IN ONE PLANE ACROSS GUTTER PANS AND SIDEWALK.
2. PROVIDE A FLATTENED CURB NOSE 6" THICK CONCRETE POURED MONOLITHICALLY WITH CURB AND GUTTER.



EXPRESSWAY RAISED MEDIAN

EXPRESSWAY RAISED MEDIAN NOTES:

1. REBAR SHALL BE 60–INCHES O.C. EXCEPT AT ENDS OF MEDIANS WHERE SPACING SHALL BE 30–INCHES O.C.
2. EPOXY CEMENT SHALL NOT BE SUBSTITUTED FOR NO. 6 VERTICAL REBAR PINS.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ASPHALT PATHWAY DETECTABLE WARNING TILES AND MEDIAN DETAILS

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E13 | DESIGNED EV | CHECKED MR | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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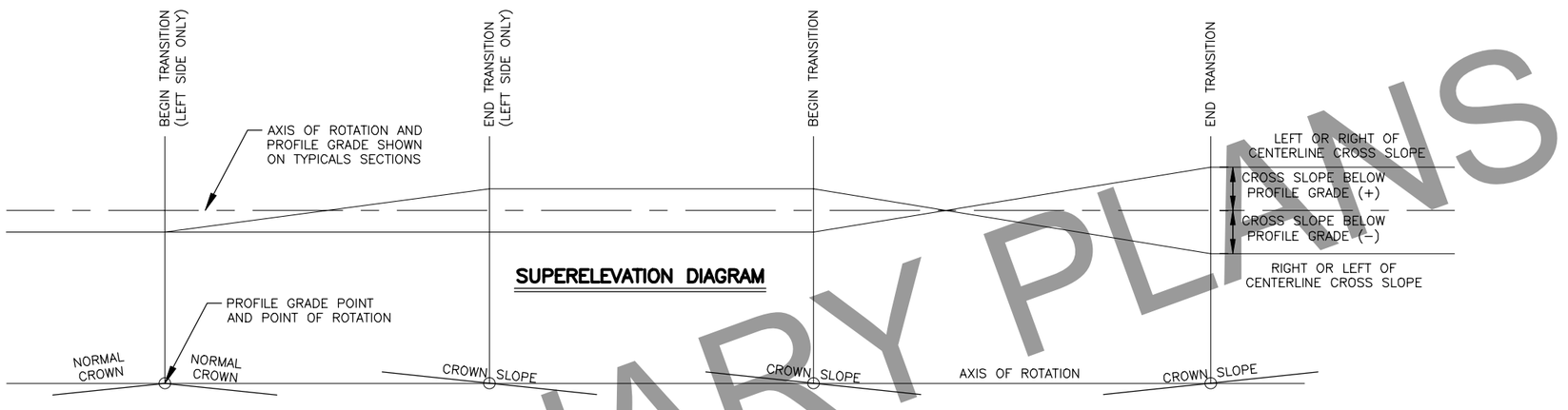

SUPERELEVATION DIAGRAM

NOTE:

1. TRANSITIONS SHOWN FOR REFERENCE ONLY. CONSTRUCT TRANSITIONS PER CROSS SLOPE TRANSITION TABLES.

SUPERELEVATION NOTES:

1. BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
2. WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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949 E. 36TH AVENUE, SUITE 500
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUPERELEVATION TRANSITION

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/11/2022 10:34 AM	E14	EV	MR	RM

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E15	E31

CROSS SLOPE TRANSITION TABLE – RAMPS

ROADWAY	BEGIN TRANSITION			END TRANSITION			REMARKS
	STATION	CROSS SLOPE	HIGH SIDE	STATION	CROSS SLOPE	HIGH SIDE	
OM–1	2103+15.00	2.00%	LT	2103+60.00	2.40%	LT	SEE "OM–1" RAMP GRADING PLAN
	2107+27.65	2.40%	LT	2107+80.00	2.00%	LT	SEE "OM–1"/"BD–2" GORE GRADING PLAN
OM–2	2203+85.00	2.00%	LT	2204+45.00	3.60%	LT	
	2205+05.00	3.60%	LT	2205+65.00	2.00%	LT	
OM–3	2301+00.00	2.00%	RT	2302+25.00	5.00%	RT	
	2303+45.00	5.00%	RT	2304+70.00	2.00%	RT	
SA–2	3207+72.00	2.00%	LT	3208+75.00	2.00%	RT	SEE "SA–2"/"BD–2" GORE GRADING PLAN
	3208+75.00	2.00%	RT	3209+00.00	3.00%	RT	
	3210+35.00	3.00%	RT	3210+60.00	2.00%	RT	
	3211+85.00	2.00%	RT	3213+40.00	5.60%	LT	
	3214+15.00	5.60%	LT	3216+30.00	5.20%	RT	
	3216+85.00	5.20%	RT	3217+00.00	4.30%	RT	SEE SCOOTER AVE GRADING PLAN
SA–3	3305+20.00	2.00%	RT	3305+60.00	3.60%	RT	SEE "SA–3"/"S–SB–SP" GORE GRADING PLAN
	3306+83.00	3.60%	RT	3307+23.00	2.00%	RT	
	3309+05.00	2.00%	RT	3310+85.00	5.60%	LT	
	3311+00.00	5.60%	LT	3311+90.00	2.00%	LT	
SA–4	3404+50.00	2.00%	LT	3406+30.00	6.00%	RT	SEE SCOOTER AVE GRADING PLAN
	3407+00.00	6.00%	RT	3408+85.00	2.00%	LT	
	3413+35.00	2.00%	LT	3413+70.00	3.40%	LT	SEE "SA–4"/"HD–3" GORE GRADING PLAN
	3415+25.00	3.40%	LT	3415+60.00	2.00%	LT	
	3416+50.00	2.00%	LT	3417+50.00	2.00%	RT	SEE "SA–4"/"N–NB–SP" GORE GRADING PLAN
DI–1	4100+75.00	2.45%	LT	4101+10.00	4.00%	LT	MATCH EXISTING
	4104+65.00	4.00%	LT	4105+35.00	2.00%	LT	SEE "DI–1"/"BD–4" GORE GRADING PLAN
	4106+70.00	2.00%	LT	4107+90.00	6.00%	LT	SEE "DI–1"/"BD–4" & "DI–1"/"N–NB–SP" GORE GRADING PLANS
	4108+95.00	6.00%	LT	4110+15.00	2.00%	LT	"DI–1"/"N–NB–SP" GORE GRADING PLAN
DI–2	4207+60.00	2.00%	LT	4209+00.00	6.00%	LT	"DI–2"/"BD–3" GORE GRADING PLAN
	4212+15.00	6.00%	LT	4216+15.00	5.00%	RT	
DI–4	4401+75.00	1.00%	LT	4404+05.00	3.20%	RT	MATCH "DI–4" INTERSECTION GRADING PLAN
	4406+80.00	3.20%	RT	4407+45.00	2.00%	RT	
	4408+05.00	2.00%	RT	4409+30.00	3.80%	LT	SEE "DI–4"/"HD–4" GORE GRADING PLAN
	4410+00.00	3.80%	LT	4411+85.00	2.00%	RT	SEE "DI–4"/"HD–4" &"DI–4"/"N–SB–SP" GORE GRADING PLAN
DI–5	4502+00.00	6.00%	LT	4502+75.00	2.00%	LT	SEE "DI–5"/"N–NB–SP" GORE GRADING PLAN

CROSS SLOPE TRANSITION TABLE – FRONTAGE ROADS

ROADWAY	BEGIN TRANSITION			END TRANSITION			REMARKS
	STATION	CROSS SLOPE	HIGH SIDE	STATION	CROSS SLOPE	HIGH SIDE	
HD–3	6305+70.00	2.00%	LT	6307+50.00	5.40%	RT	
	6310+10.00	5.40%	RT	6311+20.00	1.00%	RT	MATCH EXISTING
HD–4	6405+45.00	2.00%	RT	6406+35.00	2.00%	LT	
BD–1				5100+85.00	2.00%	Lt & RT	MATCH EXISTING
	5101+00.00	2.00%	Lt & RT	5102+00.00	2.00%	LT	
	5106+64.04	2.00%	LT				SEE "OM–2"/"BD–1" GORE GRADING PLAN
BD–2	5202+85.00	2.40%	LT	5203+30.00	2.00%	LT	SEE "OM–1"/"BD–2" GORE GRADING PLAN
	5204+50.00	2.00%	LT	5205+50.00	2.00%	RT	
	5233+00.00	2.00%	RT	5234+00.00	2.00%	LT	
BD–4	5400+00.00	3.20%	LT	5400+30.00	4.60%	LT	SEE "DI–1"/"BD–4" GORE GRADING PLAN
	5401+65.00	4.60%	LT	5402+25.00	2.00%	LT	
	5403+00.00	2.00%	LT	5404+00.00	2.00%	RT	

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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SUPERELEVATION TABLES

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E15 | DESIGNED EV | CHECKED MR | DRAFTED RM
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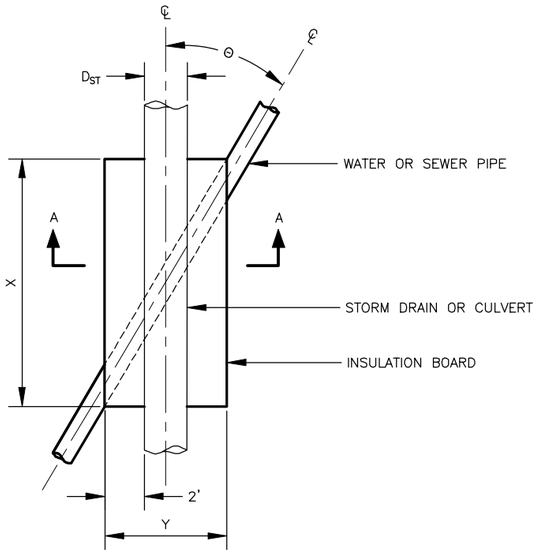
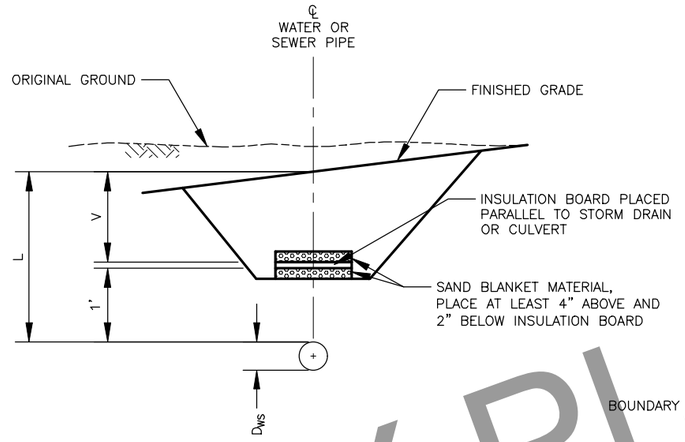
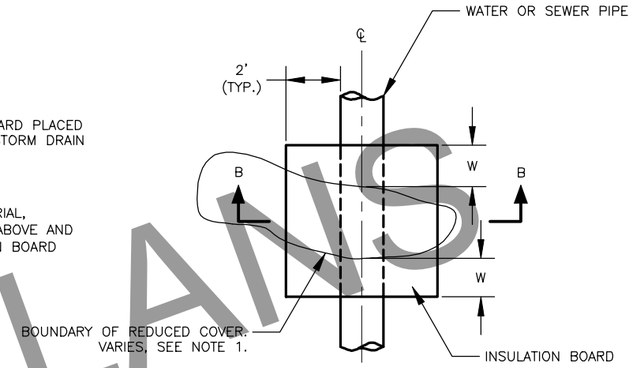
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	E16	E31



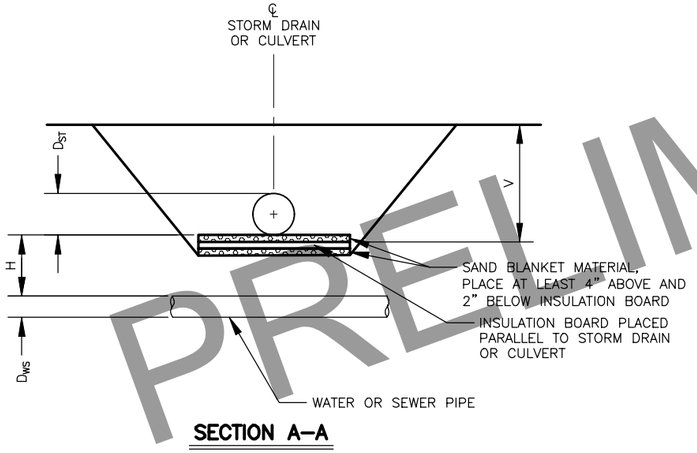
PLAN VIEW



SECTION B–B



PLAN VIEW



SECTION A–A

STORM DRAIN CONFLICTS

STORM DRAIN NOTES:

1. LENGTH OF CONFLICT (X) IS DEFINED AS WHEN THE EDGES OF THE OUTER DIAMETER OF THE PIPES IN QUESTION ARE WITHIN 36 INCHES OF ONE ANOTHER.
2. H = REQUIRED MIN. VERTICAL SEPARATION

   36 INCH SEPARATION WITHOUT INSULATION
   18 INCH SEPARATION WITH INSULATION.
3. INSULATION BOARD DIMENSIONS LOCATED IN TABLE:

INSULATION BOARD LENGTH (X)				
D_{WS}	Θ < 25°	25° ≤ Θ < 45°	45° ≤ Θ < 65°	Θ ≥ 65°
<12"	EXTEND FULL LENGTH OF CONFLICT BY 4'	D_{ST} + 13'	D_{ST} + 7'	D_{ST} + 4'
12"–24"		D_{ST} + 15'	D_{ST} + 8'	
24"–36"		D_{ST} + 17'	D_{ST} + 10'	
36"–48"		D_{ST} + 19'	D_{ST} + 11'	

INSULATION BOARD NOTES:

1. "V" IS THE DEPTH OF INSULATION BOARD (2 FOOT MIN.).
2. INSULATION BOARD THICKNESS IS 4 INCHES (MIN.), REQUIRED THERMAL RESISTANCE IS R–18.
3. WHEN THE STORM DRAIN IS WITHIN THREE FEET OF A MANHOLE, THE LADDER IN THE MANHOLE MUST BE ROTATED OPPOSITE THE STORM DRAIN OR INSULATION PLACED BETWEEN THE STORM DRAIN AND SANITARY SEWER MANHOLE TO PREVENT ICING ON THE MANHOLE LADDER.

REDUCTION OF COVER ON WATER AND SEWER PIPES

REDUCTION OF COVER NOTES:

1. TO BE USED WHEN FINISHED GRADE COMES WITHIN 10 FEET OF SANITARY/PRESURE SEWER OR WATER PIPES.
2. INSULATION BOARD DIMENSIONS:
   IF $D_{WS} \leq 6$ INCHES, W = 2 FEET
   IF $D_{WS} > 6$ INCHES AND IF 8 FEET $\leq L <$ 10 FEET, W = 2 FEET.
   IF $D_{WS} > 6$ INCHES AND IF L < 8 FEET, W = 4 FEET.
3. REQUIREMENTS FOR BURIAL:

DEPTH OF BURIAL (V)					
UTILITY TYPE	L < 4.5'	4.5' ≤ L < 5.5'	5.5' ≤ L < 8'	8' ≤ L < 10'	L ≥ 10'
GRAVITY SEWER	NOT ALLOWED	NO INSULATION REQUIRED	NO INSULATION REQUIRED	NO INSULATION REQUIRED	NO INSULATION REQUIRED
PRESSURE SEWER		NOT ALLOWED	ARCTIC PIPE REQUIRED	ARCTIC PIPE REQUIRED	
WATER		NOT ALLOWED	ARCTIC PIPE REQUIRED	INSULATION REQUIRED	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

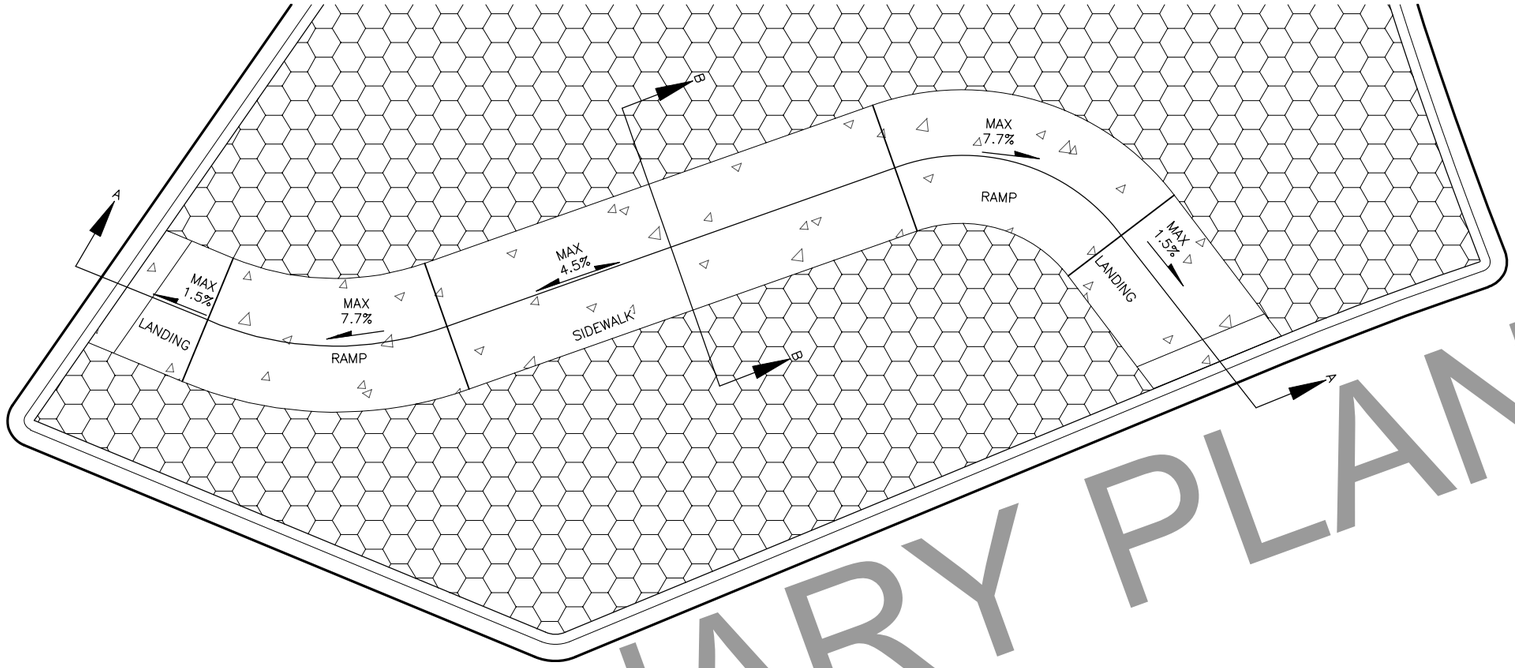
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

INSULATION BOARD DETAILS

FILE: C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_E16_DETAILS.DWG | DATE/TIME: 4/11/2022 10:34 AM | LAYOUT: E16 | DESIGNED: EV | CHECKED: MR | DRAFTED: RM

NO.	DATE	REVISION

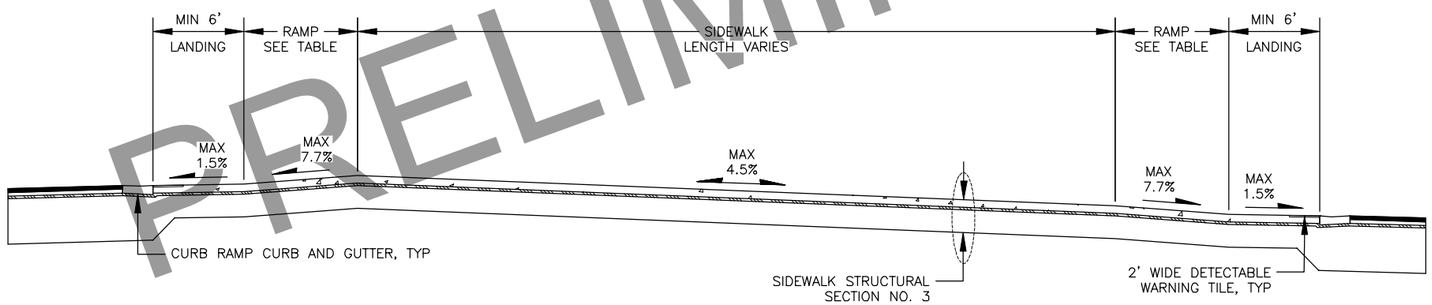
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E17	E31



PLAN

SCALE: 1"=5'

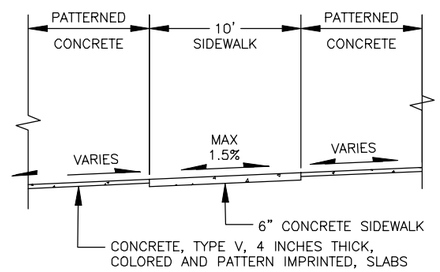
12 6 0 5 10
In. Feet



UPHILL SIDEWALK GRADE	RAMP RUN LENGTH
0 TO 1.5%	7.5'
1.51% TO 4.0 %	12'
STEEPER THAN 4.0%	15'

DOWNHILL SIDEWALK GRADES	RAMP RUN LENGTH
ALL	7.5'

SECTION A–A



SECTION B–B

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

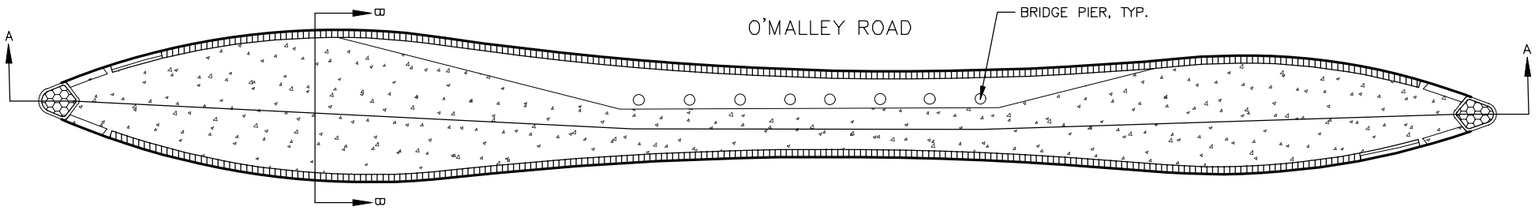
TYPICAL ISLAND PATHWAY DETAIL

DATE/TIME	4/11/2022 10:34 AM
LAYOUT	E17
DESIGNED	EV
CHECKED	MR
DRAFTED	RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876330\000012_E17_DETAILS.DWG

NO.	DATE	REVISION

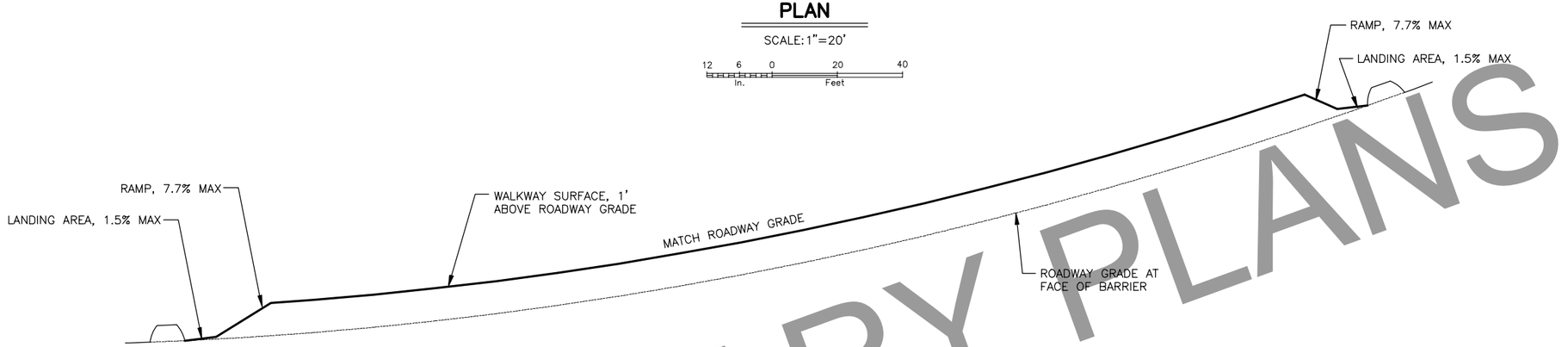
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E18	E31



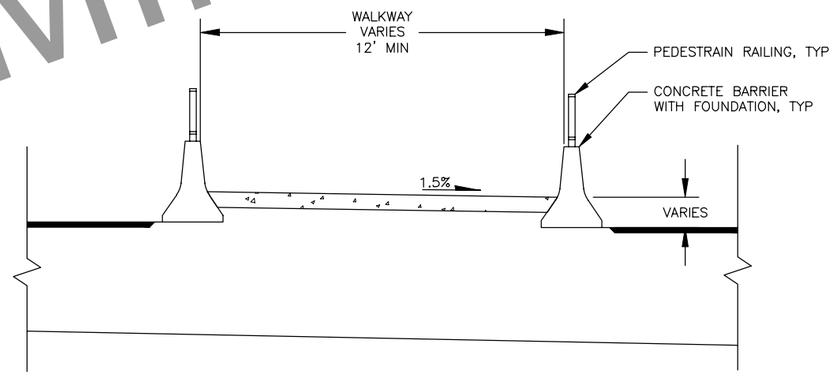
PLAN

SCALE: 1"=20'

12 6 0 20 40
In. Feet



SECTION A–A



SECTION B–B

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

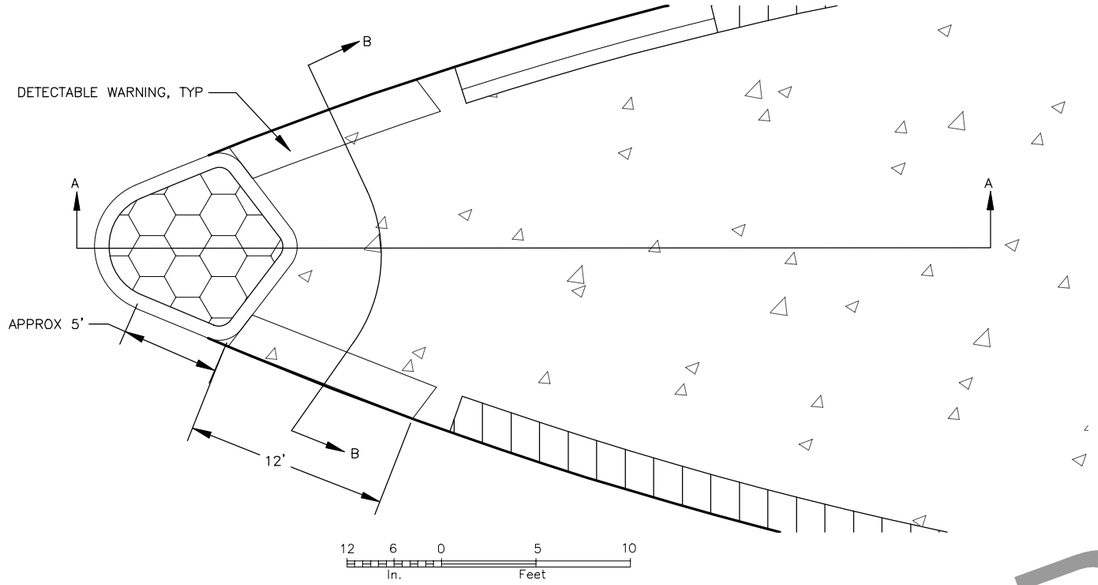
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

CENTRAL ISLAND WALKWAY

DATE/TIME 4/11/2022 10:34 AM | LAYOUT E18 | DESIGNED EV | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D08763301\00012_E18_DETAILS.DWG

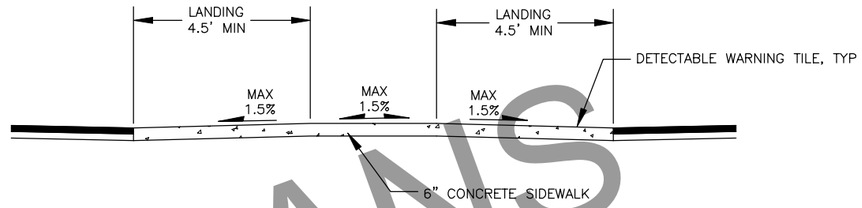
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	E19	E31

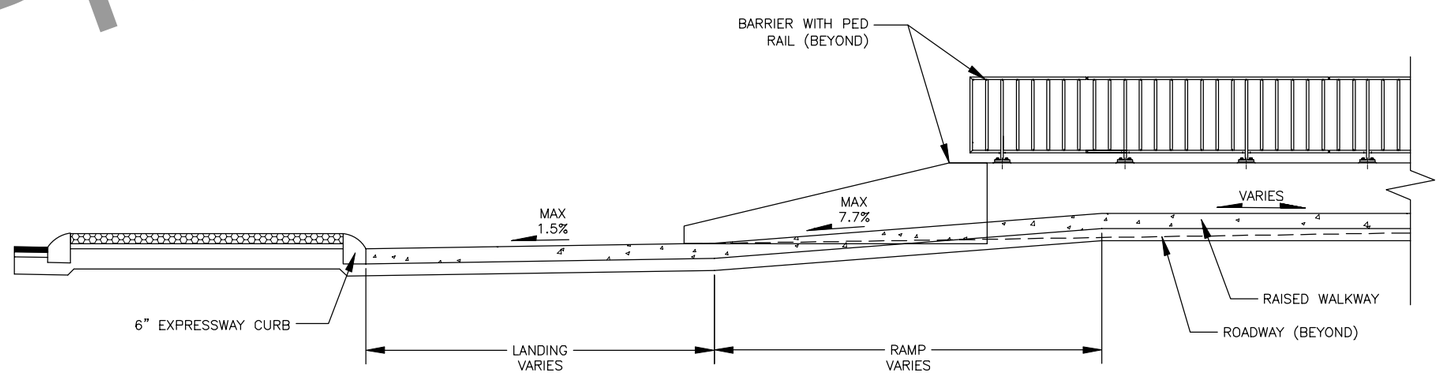


WALKWAY NOSE DETAIL

SCALE: 1"=10'



SECTION B–B



SECTION A–A

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

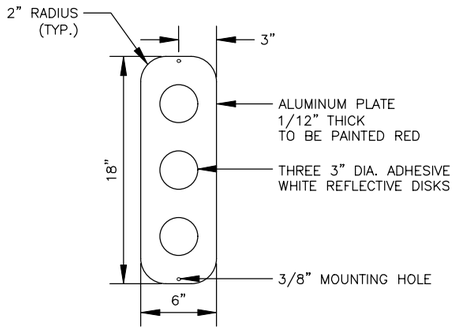
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

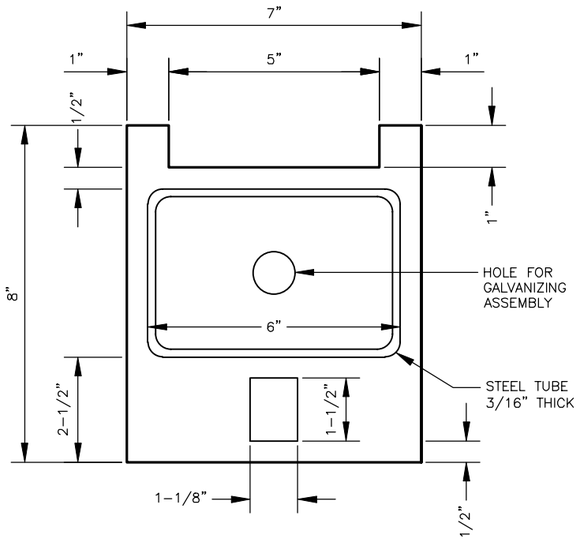
CENTRAL ISLAND NOSE

DATE/TIME | 4/11/2022 10:35 AM | LAYOUT | E19 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876330\000012_E19_DETAILS.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	E20	E31



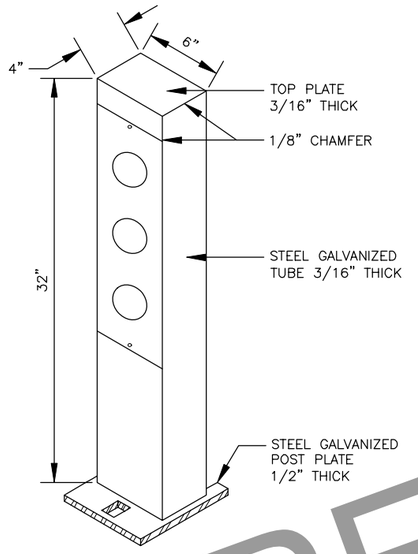
REFLECTOR PLATE



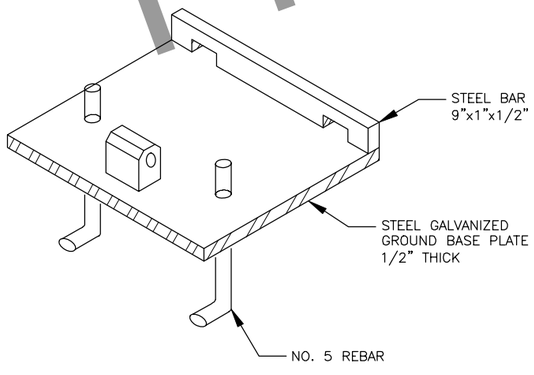
POST BASE PLATE

REMOVABLE STEEL BOLLARD NOTES:

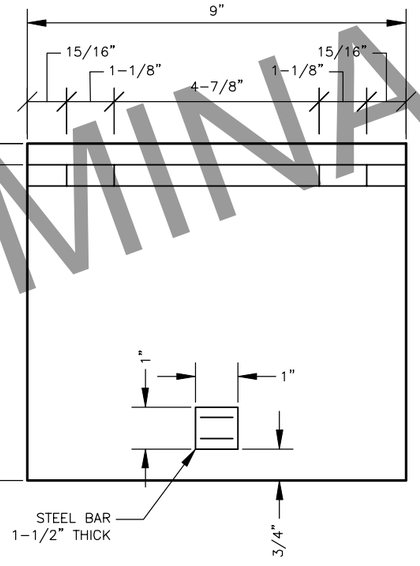
1. ALL WELDS, UNLESS OTHERWISE SHOWN, SHALL BE 3/16-INCH FILLET ON ALL SIDES.
2. BOLLARDS SHALL BE CAST IN PLACE WITH TYPE 'A' CONCRETE IN A 12-INCH DIAMETER BY 36-INCH DEEP CONCRETE FOUNDATION TUBE.
3. ALL EXTERIOR CORNERS SHALL BE ROUNDED TO PROVIDE A PROJECTION FREE SURFACE.
4. INSTALL REFLECTOR PLATES WITH ADHESIVE DISK REFLECTORS ON BOTH FRONT AND BACK OF POST.
5. USE OF "OLD STYLE" STEEL SLEEVE WITH REMOVABLE WOOD BOLLARD IS PROHIBITED.



REFLECTOR PLATE AND STEEL POST

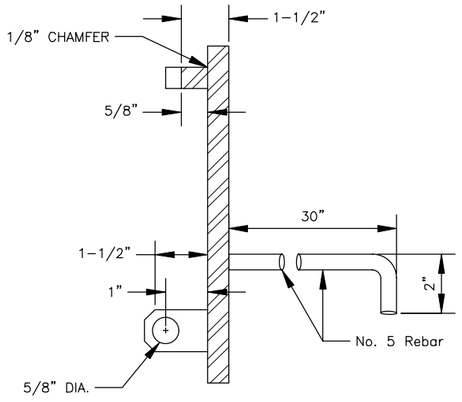


GROUND BASE PLATE (ISOMETRIC VIEW)

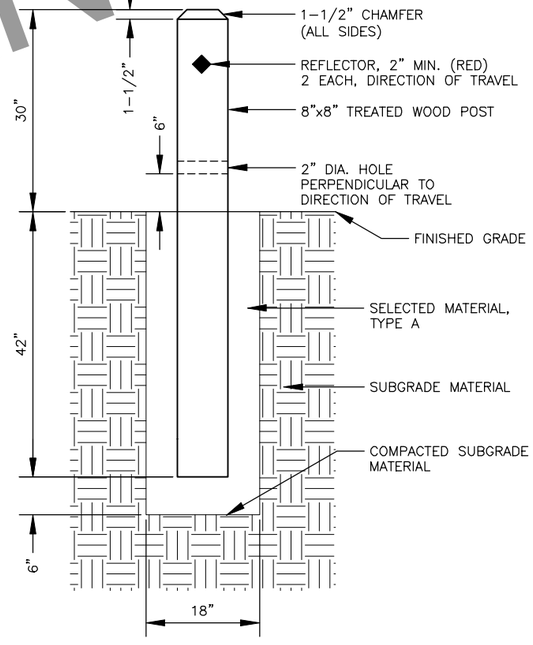


GROUND BASE PLATE

REMOVABLE STEEL BOLLARD



GROUND BASE PLATE (SIDE VIEW)



WOOD BOLLARD

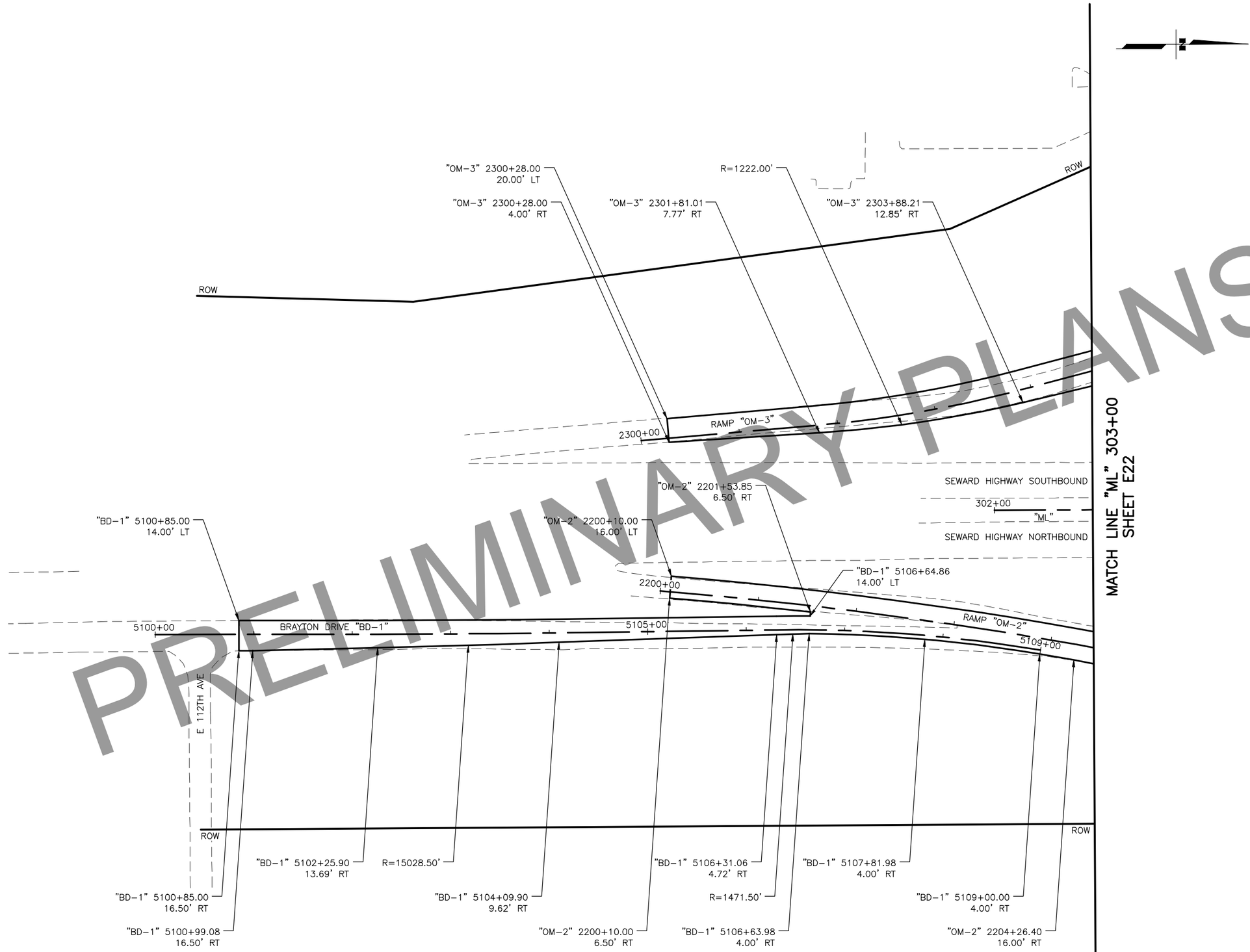
STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, INC.
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BOLLARD DETAILS

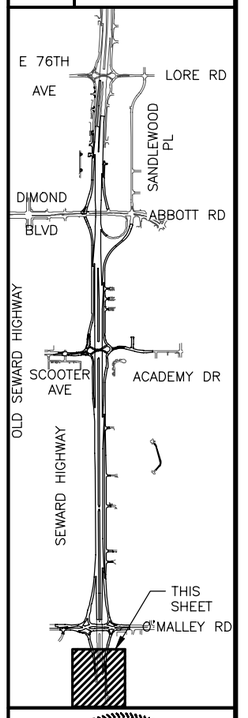


SHEET NO.	TOTAL SHEETS
E21	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
BOP TO 303+00

FILE	DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_E21_LAYOUT.DWG	4/11/2022 10:35 AM	E21	EV	MR	RM

MATCH LINE "ML" 303+00
SHEET E21

MATCH LINE "ML" 316+00
SHEET E23

ROW

"OM-3" 2306+53.63
16.00' LT

"OM-3" 2306+13.80
20.00' LT

"OM-3" 2305+15.91
16.00' RT

"OM-3" 2306+53.63
16.00' RT

2305+00 RAMP "OM-3"

2350+00

RAMP "OM-3"

RAMP "OM-3W"

2605+00

2505+00

2450+00

RAMP "OM-4W"

2400+00

RAMP "OM-4"

"OM-4" 2402+33.38
"OM-4W" 2452+60.60
28.00' LT

"OM-4" 2402+33.38
"OM-4W" 2452+60.60
28.00' RT

"OM-4" 2402+98.38
28.00' LT

"OM-4" 2402+98.38
28.00' RT

"OM-4" 2404+18.38
20.00' LT

"OM-4" 2404+18.38
16.00' RT

2405+00

RAMP "OM-4"

"ML" 308+68.82
48.97' LT

"ML" 308+69.02
11.25' LT

"ML" 313+67.85
57.00' LT

"ML" 313+69.15
13.00' LT

SEWARD HIGHWAY SOUTHBOUND

"S-SB-SP"

200+00

205+00

305+00

310+00

315+00

"ML"

600+00

605+00

"S-NB-SP"

SEWARD HIGHWAY NORTHBOUND

"ML" 313+69.02
13.00' RT

"ML" 313+69.02
57.00' RT

"ML" 308+69.10
10.80' RT

"ML" 308+69.10
48.87' RT

2510+00

O'MALLEY RD "X-OM-WB"

2610+00

O'MALLEY RD "X-OM-EB"

2100+00

RAMP "OM-1"

5200+00

BRAYTON DRIVE "BD-2"

2105+00

2205+00 RAMP "OM-2"

RAMP "OM-2"

2250+00

RAMP "OM-2E"

"OM-2" 2206+64.00
16.00' LT

"OM-2" 2206+64.00
16.00' RT

"OM-1" 2103+72.41
16.00' RT

"OM-1" 2103+32.61
12.00' RT

"OM-1" 2103+05.33
"OM-1E" 2154+24.18
16.00' LT

"OM-1" 2103+05.33
"OM-1E" 2154+24.18
12.00' RT

RAMP "OM-1E"

SEE NOTE 1

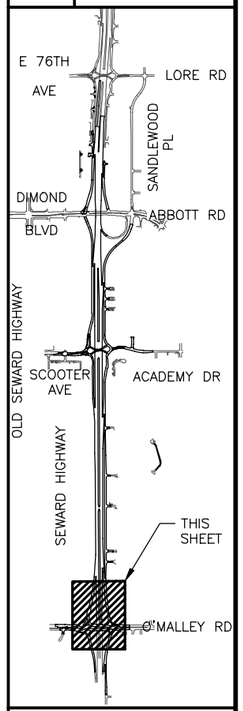
NOTE:

1. FOR SHADED REGION, SEE GRADING SHEETS.

SHEET NO.	TOTAL SHEETS
E22	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
303+00 TO 316+00

DATE/TIME | 4/11/2022 10:35 AM | LAYOUT | E22 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876330\00012_E22_LAYOUT.DWG

MATCH LINE "ML" 316+00
SHEET E22

MATCH LINE "ML" 329+00
SHEET E24

ROW

"OM-4" 2409+71.25
16.00' RT

"ML" 316+94.27'
57.00' LT

"ML" 318+51.33
57.00' RT

"OM-1" 2112+37.72
16.00' LT

"OM-4" 2413+77.53
20.00' LT

2410+00 RAMP "OM-4"

SEWARD HIGHWAY SOUTHBOUND

210+00 215+00 "S-SB-SP" 220+00

320+00 325+00 "ML"

610+00 615+00 620+00 "S-NB-SP"

"OM-1" 2110+50.02
8.00' RT

SEWARD HIGHWAY NORTHBOUND

2115+00

RAMP "OM-1"

110+00 5205+00 5210+00 5215+00

R=7992.00'

BRAYTON DRIVE "BD-2"

"OM-1" 2111+52.19
8.00' RT

"BD-2" 5203+89.70
16.00' RT

"BD-2" 5203+22.44
2.00' LT

"OM-1" 2118+05.96
9.96' RT

THUJA AVE

"BD-2" 5206+35.83
67.51' RT

"BD-2" 5206+14.83
66.73' RT

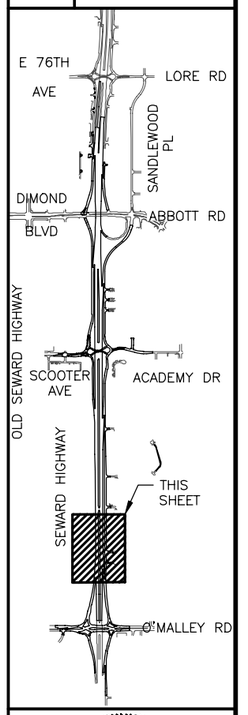
"BD-2" 5206+42.93
140.05' RT

"BD-2" 5206+13.36
149.96' RT

"BD-2" 5206+37.35
123.17' RT

"BD-2" 5206+23.36
149.99' RT

"BD-2" 5206+23.35
139.99' RT



SHEET NO.	TOTAL SHEETS
E23	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
316+00 TO 329+00

DATE/TIME	4/11/2022 10:35 AM
LAYOUT	E23
DESIGNED	EV
CHECKED	MR
DRAFTED	RM

FILE C:_PW_WORKDIR_DEN001\RK053776\D08763330\000012_E23_LAYOUT.DWG

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/11/2022 10:36 AM	EV	RM	MR

LAYOUT
E24

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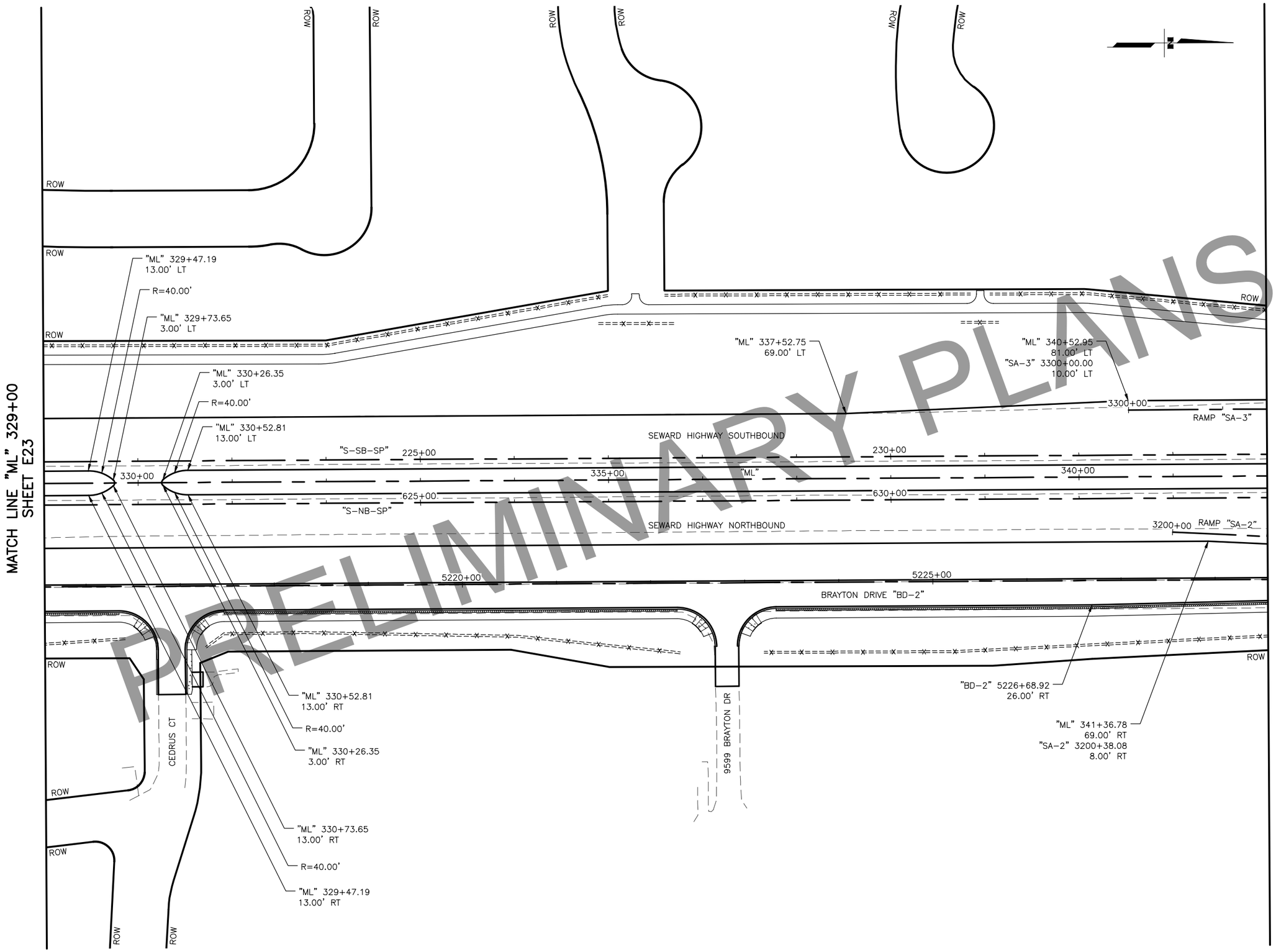
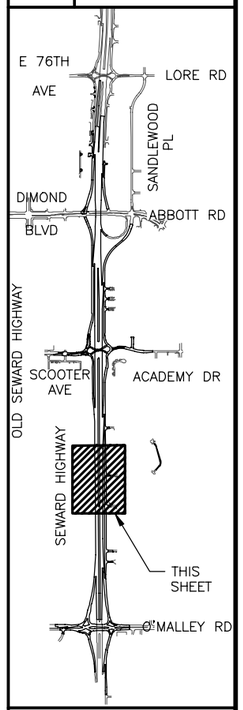


SHEET NO.	TOTAL SHEETS
E24	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML" PAVEMENT LAYOUT 329+00 TO 342+00

ROW

"SA-3" 3306+05.76
8.00' LT

"SA-3" 3308+73.22
16.00' RT

"ML" 349+26.93
69.00' LT

3305+00

3310+00

RAMP "SA-3"

SEWARD HIGHWAY SOUTHBOUND

235+00

"S-SB-SP"

240+00

"ML"

345+00

350+00

635+00

640+00

"S-NB-SP"

SEWARD HIGHWAY NORTHBOUND

3205+00

5230+00

5235+00

RAMP "SA-2"

3210+00

BRAYTON DR "BD-2"

"ML" 347+42.53
69.00' RT

"SA-2" 3206+43.20
16.00' LT

"SA-2" 3207+00.79
8.00' RT

"BD-2" 5234+54.36
2.00' LT

9499 BRAYTON DRIVE

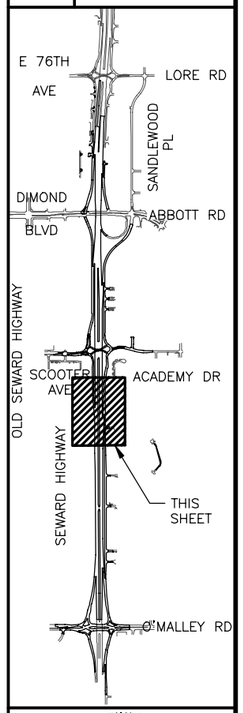
MATCH LINE "ML" 342+00
SHEET E24

MATCH LINE "ML" 355+00
SHEET E26

SHEET NO.	TOTAL SHEETS
E25	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
342+00 TO 355+00

DATE/TIME 4/11/2022 10:36 AM | LAYOUT E25 | DESIGNED EV | CHECKED MR | DRAFTED RM

FILE C:_PW_WORKDIR_DEN001\RK0537776\D08776330\000012_E25_LAYOUT.DWG

MATCH LINE "ML" 355+00
SHEET E25

MATCH LINE "ML" 368+00
SHEET E27

LONG ST
CALAMITY CT
ROW
EXISTING SOUTHBOUND ON RAMP FROM SCOOTER AVE
SCOOTER AVE "X-SA"
3010+00
3400+00
"SA-3" 3316+00.00
8.00' LT
"SA-3" 3316+00.00
16.00' RT
3315+00
RAMP "SA-3"
"SA-4" 3404+55.00
16+00' LT
"SA-4" 3404+55.00
16.00' RT
3405+00
RAMP "SA-4"
EXISTING SOUTHBOUND OFF RAMP TO SCOOTER AVE
"ML" 358+61.92
13.00' LT
"ML" 358+61.92
13.00' RT
"ML" 361+95.60
13.00' LT
"ML" 361+95.60
13.00' RT
SEWARD HIGHWAY SOUTHBOUND
SEWARD HIGHWAY NORTHBOUND
360+00
365+00
"ML"
4200+00
3015+00
5305+00
BRAYTON DRIVE "BD-3"
3215+00
RAMP "SA-2"
5300+00
"BD-3" 5303+62.55
26.00' RT
"BD-3" 5303+22.75
22.00' RT
"BD-3" 5302+50.00
2.00' LT
"BD-3" 5302+50.00
25.93' RT
"SA-2" 3217+00.00
16.00' LT
"SA-2" 3217+00.00
16.00' RT
CORNELLA CIR
ACADEMY DR "X-SA"
SEE NOTE 1

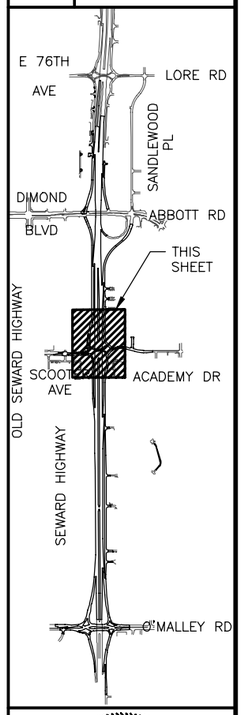
NOTE:

1. FOR SHADED REGION, SEE GRADING SHEETS.

SHEET NO.	TOTAL SHEETS
E26	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
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JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
355+00 TO 368+00

FILE C:_PW_WORKDIR_DEN001\RK053776\D08763330\000012_E26_LAYOUT.DWG | DATE/TIME 4/11/2022 10:36 AM | LAYOUT E26 | DESIGNED EV | CHECKED MR | DRAFTED RM

MATCH LINE "ML" 368+00
SHEET E26

"HD-3" 6303+05.31
2.00' RT

"SA-4" 3416+94.90
16.00' RT

"SA-4" 3416+46.39
8.00' LT

"ML" 376+73.10
69.00' LT

"ML" 375+87.55
13.00' LT

"HD-3" 6304+40.00
2.00' RT

"ML" 375+87.83
0.99' RT

"HD-3" 6307+06.54
8.66' RT

ROW

ROW

3410+00

6300+00

3415+00

6305+00

HOMER DRIVE "HD-3"

RAMP "SA-4"

3420+00

SEWARD HIGHWAY SOUTHBOUND

500+00

"N-SB-SP"

505+00

510+00

370+00

"ML"

375+00

910+00

380+00

900+00

905+00

"N-NB-SP"

SEWARD HIGHWAY NORTHBOUND

4205+00

RAMP "DI-2"

5310+00

5315+00

BRAYTON DRIVE "BD-3"

4210+00

ROW

"DI-2" 4205+47.71
8.00' RT

S HEATHER MEADOWS LP

MOSS CREEK AVE

N HEATHER MEADOWS LP

"BD-3" 5313+19.53
2.00' LT

"ML" 372+66.97
66.41' RT

"DI-2" 4204+91.77
16.00' LT

ROW

MATCH LINE "DI-2" 4213+00
SHEET E31

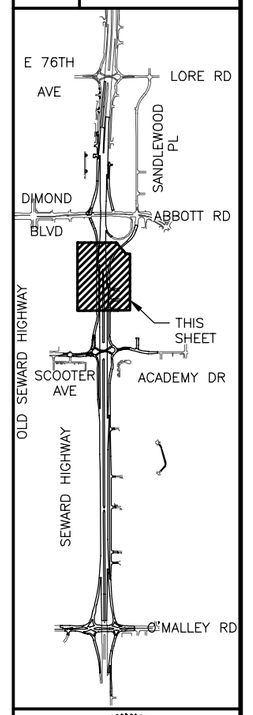
MATCH LINE "ML" 381+00
SHEET E28

SHEET NO.	TOTAL SHEETS
E27	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
368+00 TO 381+00

DATE/TIME	4/11/2022 10:36 AM
LAYOUT	E27
DESIGNED	EV
CHECKED	MR
DRAFTED	RM

FILE C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_E27_LAYOUT.DWG

MATCH LINE "ML" 381+00
SHEET E27

"HD-3" 6312+80.34
27.49' LT

"HD-3" 6312+53.10
19.47' LT

"HD-3" 6311+80.00
16.00' LT

"HD-3" 6310+56.16
16.00' RT

"ML" 383+94.29
58.20' LT

"HD-3" 6310+00.00
16.00' RT

"ML" 382+49.94
60.73' LT

ROW

DIMOND BLVD

ROW

SEE NOTE 1

"DI-4" 4401+75.00
30.05' LT

"DI-4" 4402+30.00
24.00' LT

"DI-4" 4402+79.84
28.00' LT

"DI-4" 4404+14.39
26.54' LT

ROW

ROW

4400+00

HOMER DRIVE "HD-3"

6310+00

"HD-3" 6312+69.94
16.22' RT

"HD-3" 6312+60.23
14.03' RT

"HD-3" 6310+80.00
16.00' RT

RAMP "DI-4"

"DI-4" 4401+75.00
16.00' RT

"DI-4" 4405+14.39
16.00' LT

ROW

4405+00

"ML" 385+74.15
51.00' LT

"ML" 387+11.84
51.00' LT

"ML" 388+91.75
57.00' LT

SEWARD HIGHWAY SOUTHBOUND

515+00
915+00

385+00

520+00
920+00

390+00

"N-SB-SP"

"ML"

"N-NB-SP"

SEWARD HIGHWAY NORTHBOUND

"ML" 393+98.14
62.96' RT

"DI-1" 4106+96.57
8.00' RT

"ML" 384+76.13
51.00' RT

"ML" 387+11.53
51.00' RT

"ML" 388+91.43
57.00' RT

4105+00

5400+00

BRAYTON DRIVE "BD-4"

RAMP "DI-1"

4500+00

RAMP "DI-5"

"ML" 383+29.79
45.00' RT

"DI-5" 4501+76.44
4.00' LT

"DI-5" 4501+61.18
20.00' RT

4100+00

ROW

"BD-4" 5402+03.83
2.00' LT

"DI-5" 4500+18.00
20.00' RT

"DI-5" 4500+18.00
4.00' LT

ABBOTT RD

"DI-1" 4107+55.25
16.00' LT

"DI-1" 4100+75.00
16.00' RT

"DI-1" 4100+75.00
16.00' LT

ROW

MATCH LINE "ML" 394+00
SHEET E29

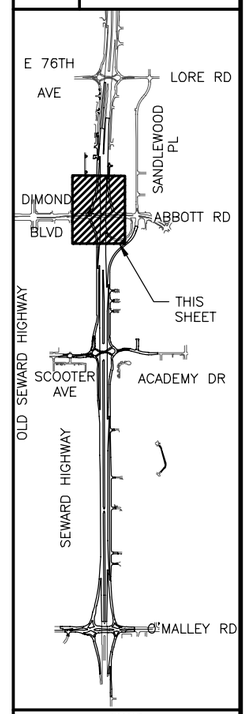
NOTE:

1. FOR SHADED REGION, SEE GRADING SHEETS.

SHEET NO.	TOTAL SHEETS
E28	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
381+00 TO 394+00

DATE/TIME | 4/11/2022 10:36 AM | LAYOUT | E28 | DESIGNED | EV | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876330\00012_E28_LAYOUT.DWG

MATCH LINE "ML" 394+00
SHEET E28

MATCH LINE "ML" 407+00
SHEET E30

"DI-4" 4408+48.16
226.22' LT

"DI-4" 4409+00.51
227.13' LT

"HD-4" 6402+66.66
234.51' LT

"HD-4" 6403+20.66
234.39' LT

"HD-4" 6403+05.59
202.80' LT

"DI-4" 4408+87.55
206.39' LT

"DI-4" 4408+63.53
205.93' LT

"HD-4" 6402+81.59
202.86' LT

"HD-4" 6402+70.78
50.88' LT

"HD-4" 6402+50.13
85.61' LT

"HD-4" 6402+49.64
51.18' LT

"HD-4" 6402+46.73
2.00' RT

"HD-4" 6402+24.58
2.00' RT

"DI-4" 4411+12.80
8.00' LT

"DI-4" 4411+82.42
16.00' RT

"HD-4" 6403+04.77
50.39' LT

"HD-4" 6403+10.58
84.74' LT

"HD-4" 6403+10.87
50.30' LT

"ML" 397+64.82
65.70' LT

"DI-4" 4414+20.53
8.00' LT

"HD-4" 6406+79.86
28.77' LT

"HD-4" 6406+83.66
27.02' LT

"HD-4" 6406+90.00
26.77' LT

"HD-4" 6406+90.00
11.85' RT

"BD-4" 5405+00.00
2.00' LT

"BD-4" 5405+00.00
16.00' RT

"BD-4" 5404+79.48
16.00' RT

"BD-4" 5404+58.00
38.23' RT

"BD-4" 5404+40.94
36.77' RT

"BD-4" 5404+19.45
16.00' RT

"ML" 398+18.88
10.33' LT

"ML" 398+19.04
3.67' RT

"ML" 403+89.39
76.85' RT

"ML" 402+99.21
47.00' LT

"ML" 402+99.21
13.00' LT

"ML" 405+05.31
9.96' RT

"ML" 405+04.75
77.94' RT

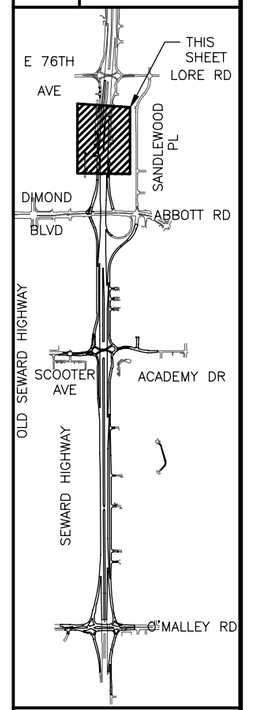
GREENWOOD ST
E 80TH AVE
HOMER DRIVE "HD-4"
RAMP "DI-4"
RAMP "DI-1"
BRAYTON DRIVE "BD-4"
SEWARD HIGHWAY SOUTHBOUND
SEWARD HIGHWAY NORTHBOUND
"ML"
"N-SB-SP"
"N-NB-SP"
ROW
FO

6400+00 4410+00 6405+00
525+00 395+00 530+00 400+00 535+00 405+00
925+00 930+00 935+00
4110+00 4115+00
5405+00 5408+00

SHEET NO.	TOTAL SHEETS
E29	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML" PAVEMENT LAYOUT 394+00 TO 407+00

DATE/TIME 4/11/2022 10:36 AM | LAYOUT E29 | DESIGNED EV | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876330\00012_E29_LAYOUT.DWG

MATCH LINE "ML" 407+00
SHEET E29

"ML" 411+85.02
69.00' LT

"ML" 411+85.02
47.00' LT

"ML" 409+62.44
47.00' LT

"ML" 408+84.50
81.00' LT

E 76TH AVE

ROW

HOMER DRIVE

FO

"N-SB-SP"

"N-NB-SP"

540+00

410+00

940+00

SOUTHBOUND OFF-RAMP TO E 76TH AVE

E 75TH AVE & E 74TH AVE CONNECTION

SEWARD HIGHWAY SOUTHBOUND

415+00

"ML"

420

SEWARD HIGHWAY NORTHBOUND

BRAYTON DRIVE

NORTHBOUND ON-RAMP FROM E LORE RD

LORE RD

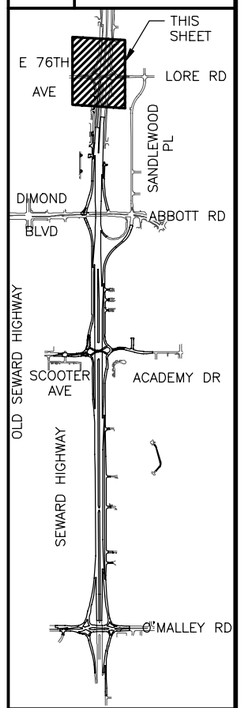
74TH AVE

SHEET NO.	TOTAL SHEETS
E30	E31
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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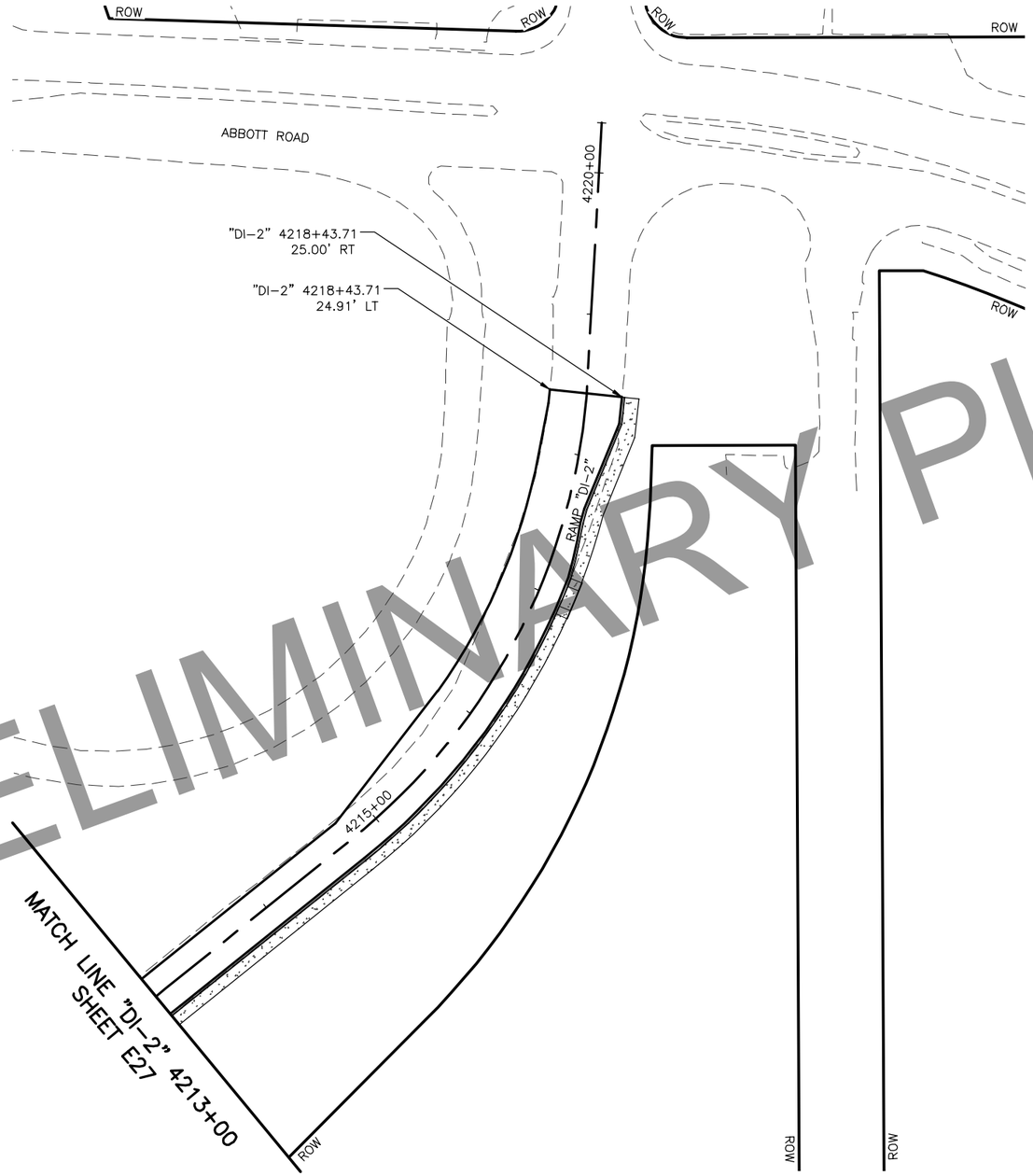
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
PAVEMENT LAYOUT
407+00 TO EOP

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876330\00012_E30_LAYOUT.DWG | DATE/TIME 4/11/2022 10:37 AM | LAYOUT E30 | DESIGNED EV | CHECKED MR | DRAFTED RM



SHEET NO.	TOTAL SHEETS
E31	E31
STATE	YEAR
ALASKA	2022

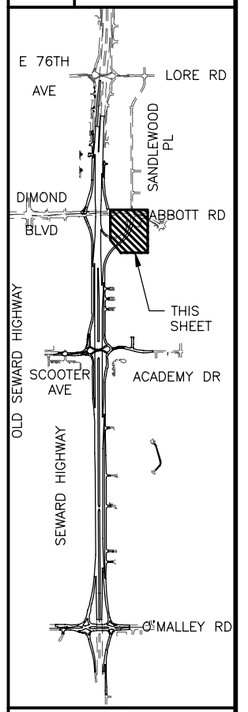
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



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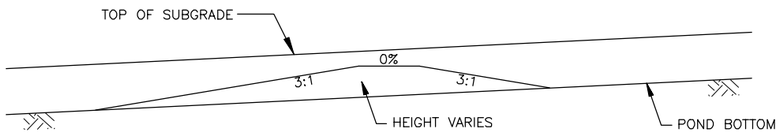
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

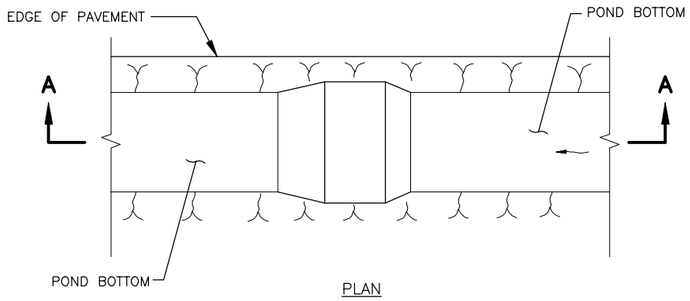
RAMP "DI-2"
PAVEMENT LAYOUT
4213+00 TO EOP

FILE	DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_E31_LAYOUT.DWG	4/11/2022 10:37 AM	E31	EV	MR	RM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	ED1	ED9



SECTION A–A



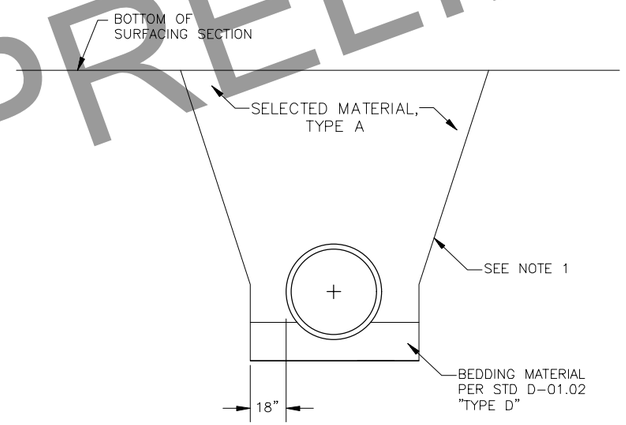
PLAN

NOTES:

1. EARTHEN WEIRS ARE ONLY LOCATED IN DETENTION POND "SW–SA", SEE GD SHEETS FOR ADDITIONAL DIMENSIONS.
2. EARTHEN WEIR SHALL BE CONSTRUCTED WITH TYPE A COMPACTED EMBANKMENT MATERIAL.
3. EARTHEN WEIR INCLUDES 12" PIPE CULVERT. SEE F SHEETS FOR DESIGN DATA.

EARTHEN WEIR

NTS

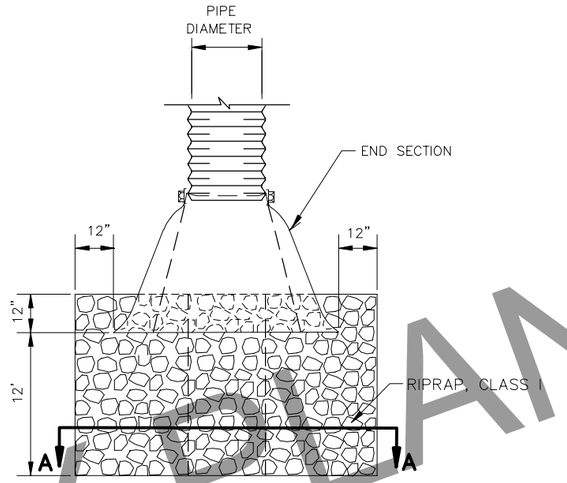


NOTES:

1. TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPE AS REQUIRED FOR STABILITY, OR PROVIDE SHORING AS REQUIRED WHICH WILL BE SUBSIDIARY.

TYPICAL STORM DRAIN TRENCH

NTS

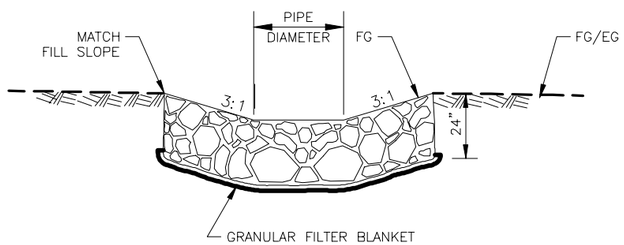


PLAN

RIPRAP ENERGY DISSIPATER

NOTES:

1. SEE STANDARD PLAN D–06.10 FOR ADDITIONAL GENERAL NOTES AND DIMENSIONS.



SECTION A–A

RIPRAP DETAIL

NOTES:

1. GRANULAR FILTER BLANKET SHALL HAVE THICKNESS OF 4", GRADATION OF D50=4"

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AECC628

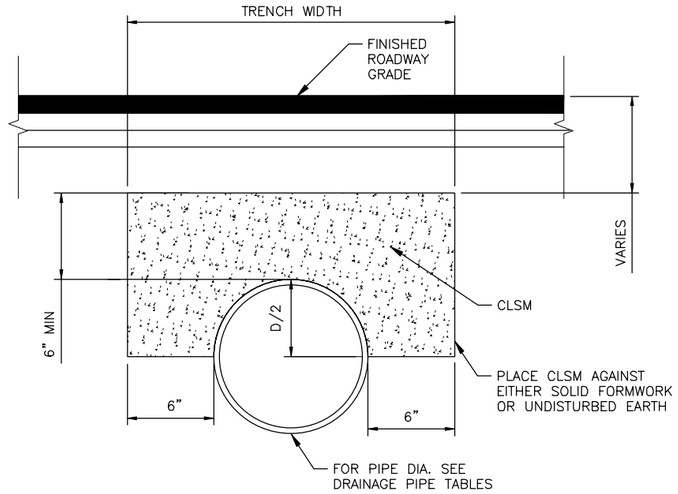
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

EARTHEN WEIR, STORM DRAIN TRENCH AND RIPRAP DETAIL

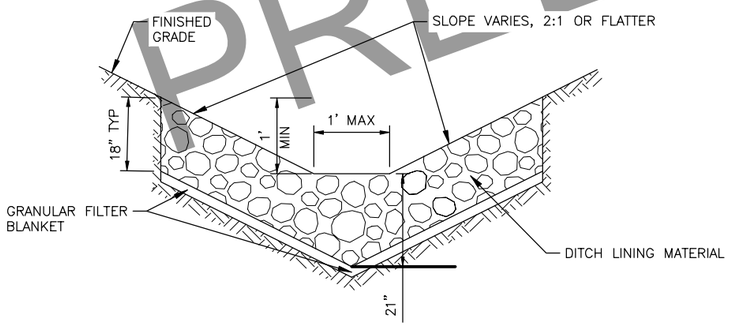
DRAFTED -- | CHECKED -- | DESIGNED -- | LAYOUT ED1 | DATE/TIME 4/6/2022 10:18 PM | FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876330\00012_ED01_DETAILS.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	ED2	ED9



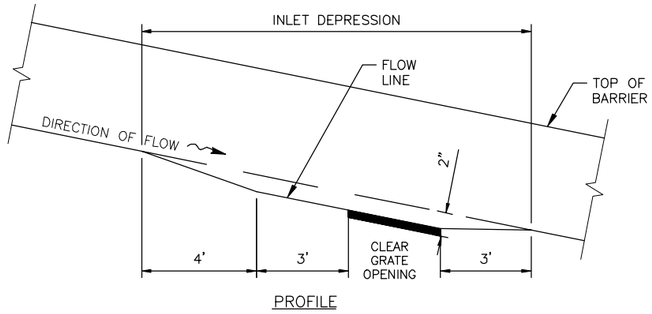
CONCRETE ENCASEMENT
NTS

NOTES:
1. ALL CONCRETE SHALL BE COMMERCIAL GRADE CONCRETE.



SPECIAL DITCH DETAIL
NTS

NOTES:
1. GRANULAR FILTER BLANKET SHALL HAVE THICKNESS OF 4", GRADATION OF D50=4"



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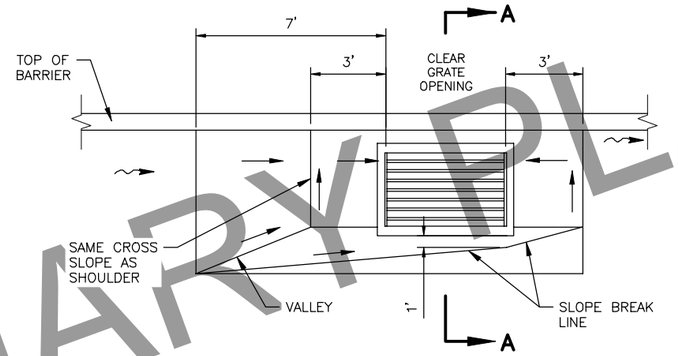
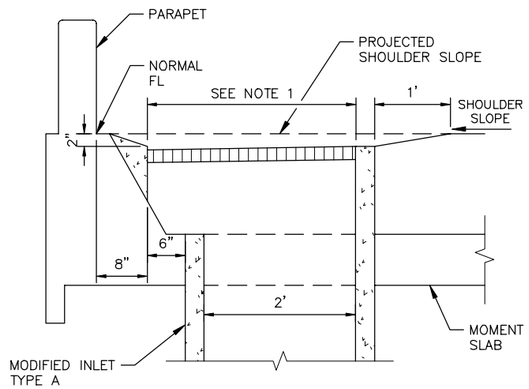


PLAN



SECTION A–A

INLET DEPRESSION
NTS

NOTES:
1. FULLY DEPRESSED SECTION SHALL BE THE WIDTH OF THE CATCH BASIN UNLESS OTHERWISE NOTED.
   → = STRAIGHT GRADE, DOWNWARD SLOPE.
   ⇝ = DIRECTION OF FLOW.
2. APRON SHALL BE HOT MIX ASPHALT AND MATCH THICKNESS OF ADJACENT SHOULDER PAVEMENT.
3. SEE WALL DETAILS FOR CATCH BASIN AND MOMENT SLAB DETAILS.
4. UTILIZE INLET DEPRESSION AT ALL MODIFIED INLET TYPE A LOCATIONS UNLESS INDICATED OTHERWISE.

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49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SPECIAL DITCH, INLET DEPRESSION AND CONCRETE ENCASEMENT DETAILS

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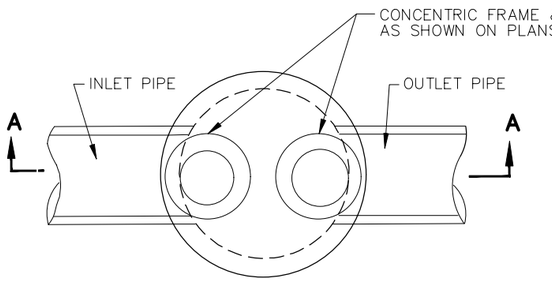
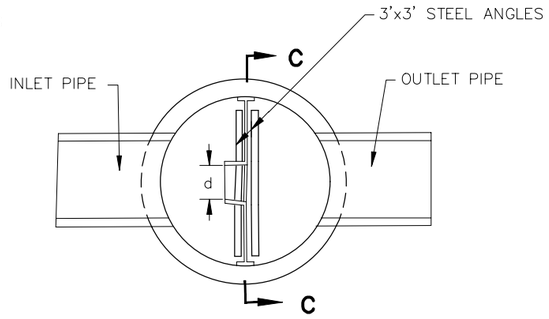
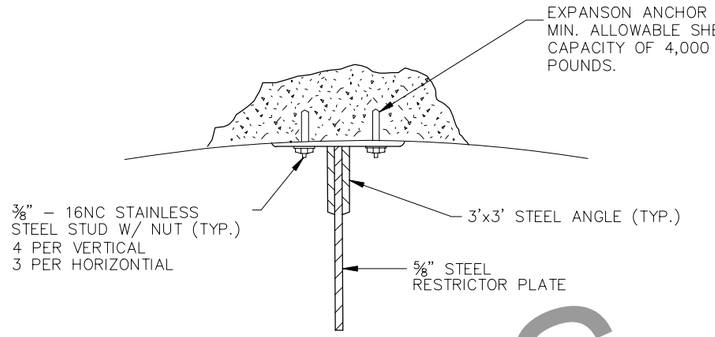
			ALASKA	0537008/CFHWY00012	2022	ED3	ED9



OUTLET STRUCTURE

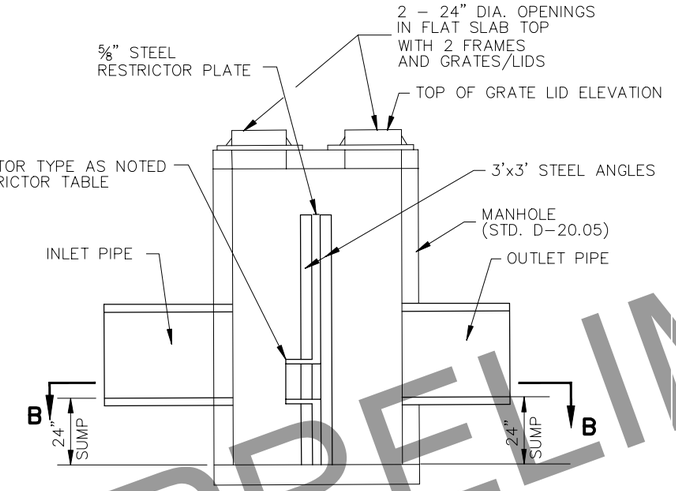


SECTION B–B

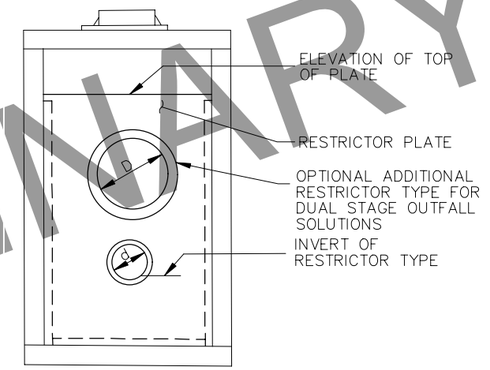


ANGLE FASTENER DETAIL

NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.



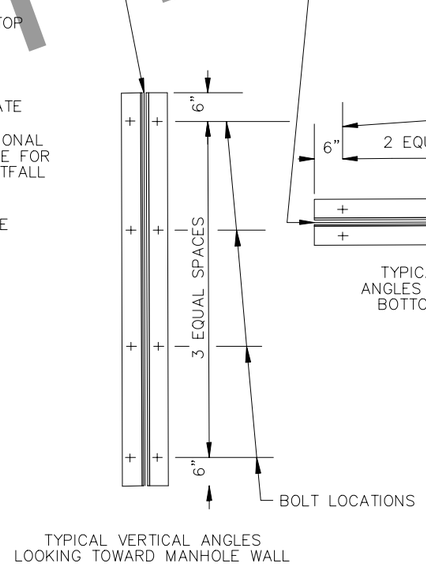
SECTION A–A



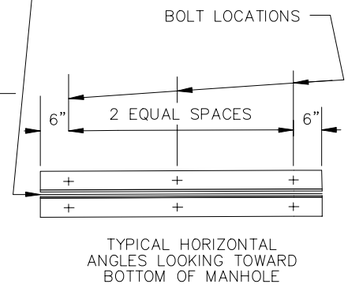
SECTION C–C

MANHOLE RESTRICTOR TABLE

STRUCTURE NUMBER	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW	TOP OF GRATE LID ELEVATION	100–YR WATER SURFACE ELEVATION
SO09	6'	SOLID LID	ORIFICE	18	154.00	159.50	163.50	159.88
				18	156.00			
SO19	6'	SOLID LID	ORIFICE	4	146.00	151.75	158.17	150.84
SO29	6'	SOLID LID	ORIFICE	10	141.40	143.60	144.96	143.22
SO39	6'	SOLID LID	ORIFICE	16	126.90	128.75	131.76	129.24

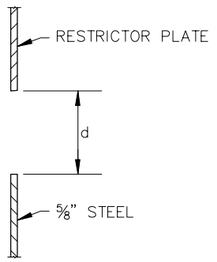


TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL



TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

STEEL ANGLE BOLTING DETAILS



INLET TUBE DETAIL

NOTES:
1. ANGLES SHALL BE 3x3x⅜
2. VERTICAL ANGLES SHALL EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTIAL ANGLES SHALL EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

OUTLET STRUCTURE

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_ED03_DETAILS.DWG | DATE/TIME | 4/6/2022 10:18 PM | LAYOUT | ED3 | DESIGNED | -- | CHECKED | -- | DRAFTED | --

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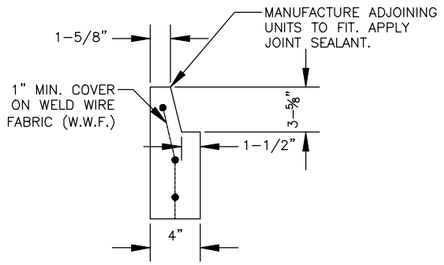
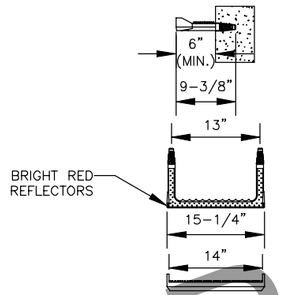
			ALASKA	0537008/CFHWY00012	2022	ED4	ED9



JOINT DETAIL

JOINT DETAIL NOTES:

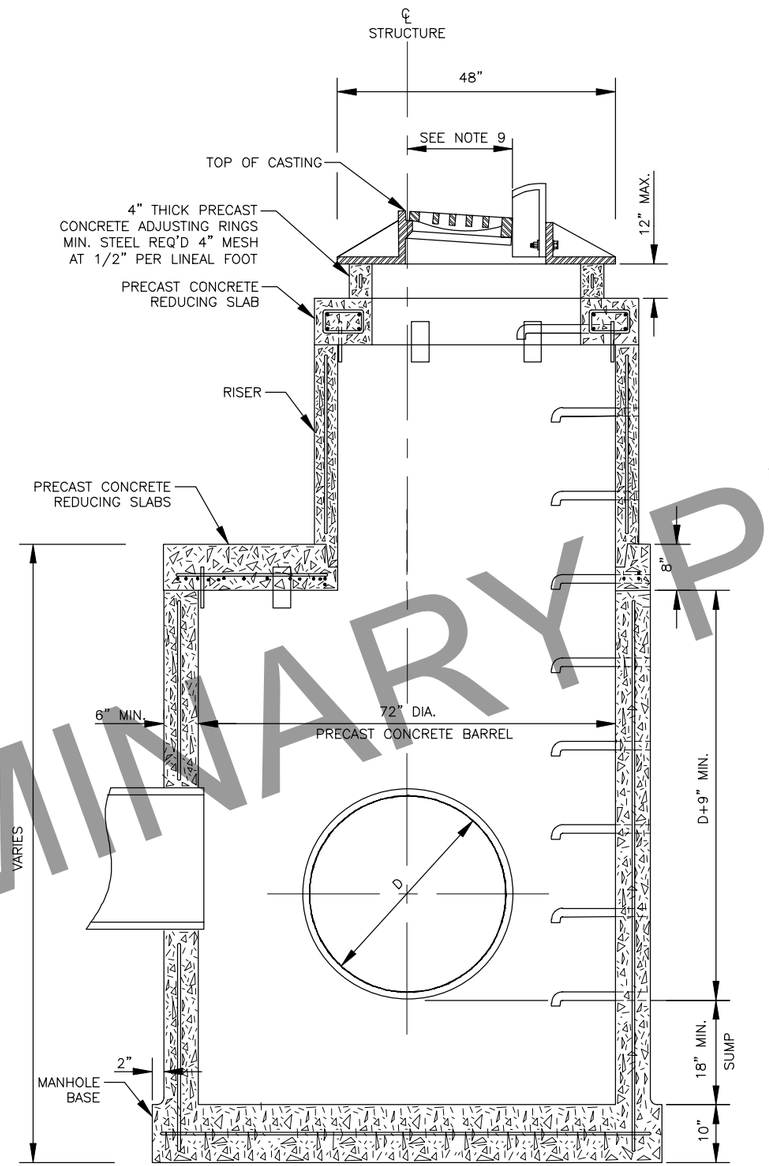
1. DIMENSIONS ARE NOMINAL.



MANHOLE STEP

MANHOLE STEP NOTES:

1. MANHOLE STEPS SHALL BE INJECTION MOLDED, POLYPROPYLENE COVERED GRADE 60 STEEL, TIGHTLY IMBEDDED AT LEAST 3" INTO CONCRETE.
2. THE INSTALLED STEPS SHALL RESIST A PULLOUT FORCE OF 1500 LB.
3. STEPS SHALL BE PLACED 12" O.C. ON AN UNOBSTRUCTED SIDE OF THE STRUCTURE, 24" MAX. FROM TOP OF CASTING AND 18" FROM MANHOLE BASE.



STORM DRAIN MANHOLE, TYPE II

MANHOLE NOTES:

1. ALL DRAINAGE STRUCTURES AND APPURTENANCES SHALL MEET THE REQUIREMENTS OF ASTM C-478.
2. MINIMUM STEEL REQUIRED FOR BARREL AS PER ASTM C-478 SHALL BE EMBEDDED IN BASE SO THAT THE FIRST BARREL SECTION IS CONNECTED TO THE BASE BY CONTINUOUS STEEL.
3. CAST IN PLACE STRUCTURES MAY BE USED IF APPROVED BY THE ENGINEER.
4. ALL BLOCKOUTS SHALL BE FORMED.
5. ALL STORM DRAIN MANHOLES AND INLETS SHALL HAVE MINIMUM 18" SUMPS. MANHOLES WITH PETROLEUM SEPARATORS SHALL HAVE 24" MINIMUM SUMPS.
6. STEPS SHALL BE PLACED 12" O.C. ON THE UNOBSTRUCTED SIDE OF THE STRUCTURE, 19" FROM TOP OF CASTING AND 18" MAXIMUM FROM MANHOLE BASE.
7. ON STORM DRAIN MANHOLE, TYPE II STRUCTURES, PRIMARY PIPES NOT TO EXCEED 42" CMP OR 36" REINFORCED CONCRETE PIPE WITH INCLUDED ANGLE BETWEEN PIPES NO LESS THAN 135° OR PRIMARY PIPES NOT TO EXCEED 36" CMP OR 30" REINFORCED CONCRETE PIPE WITH INCLUDED ANGLE NO LESS THAN 135°.
8. OFFSETS ARE MEASURED FROM ℄ OF THE ROAD TO ℄ OF THE STRUCTURE.
9. DISTANCE TO ℄ OF STRUCTURE FROM FACE OF CURB IS:

STRUCTURE UNDER ROADWAY A	STRUCTURE OUT OF ROADWAY B
X=-24"	X=-12"

10. 24" PIPES > 90° APART NEED 6" VERTICAL CLEARANCE.
11. MANHOLES PLACED ALONG CURB LINE SHALL HAVE STEPS ALIGNED UNDER THE CURB INLET.
12. PLACE MANHOLE BASE ON 6" MIN. COMPACTED AGGREGATE BASE COURSE.
13. EXTEND PIPE A MINIMUM OF 2" INTO MANHOLE.
14. MINIMUM DROP BETWEEN PIPES IS 0.5".
15. PIPE LENGTH AND INVERT, AND SLOPE ARE MEASURED FROM INSIDE WALL OF MANHOLE.
16. USE CONCRETE WITH A MINIMUM 4000 PSI 28 DAY COMPRESSIVE STRENGTH AND 6% ± 1.5% AIR ENTERTAINMENT. MAXIMUM WATER/CEMENT RATIO IS 0.45.
17. MINIMUM COVER ON REINFORCING STEEL IS 1".

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

STORM DRAIN MANHOLE TYPE II DETAILS

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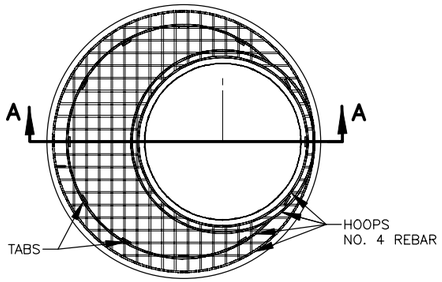
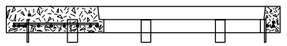
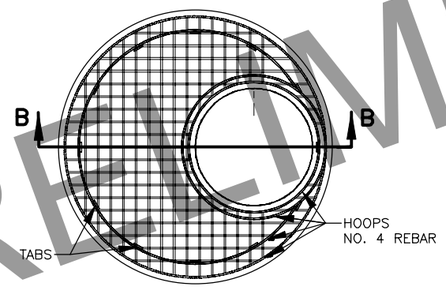


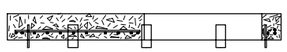


SECTION A–A

DIMENSION IS TO OUTSIDE OF REBAR

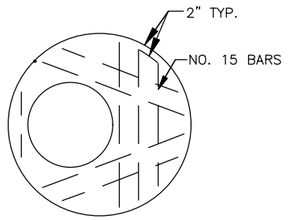
84" TO 48" PRECAST CONCRETE REDUCING SLAB





SECTION B–B

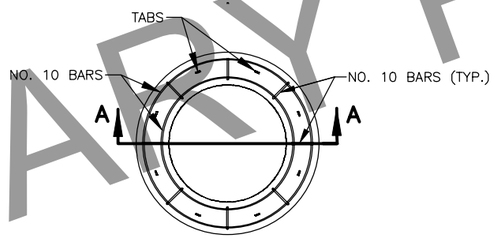
84" TO 36" PRECAST CONCRETE REDUCING SLAB



PRECAST CONCRETE REDUCING SLAB 56" TO 26" WITH OFFSET HOLE

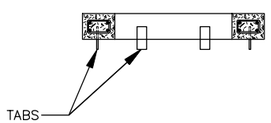
NOTE:

1. TABS WILL BE 1/2" X 3" X 7" GALVANIZED STEEL PLATES. "EVENLY SPACE 8 TABS AROUND EACH SLAB. INSERT TABS 4" INTO CONCRETE, 5 1/2" FROM OUTSIDE EDGE OF SLAB.



PLAN VIEW

THESE DIMENSIONS DENOTE DISTANCE BETWEEN EDGE OF CONCRETE AND OUTSIDE EDGE OF RESTEEL.



SECTION A–A

PRECAST CONCRETE REDUCING SLAB 56" TO 36" WITH CENTERED HOLE

REDUCING SLAB NOTES:

1. USE NO. 5 FOR ALL REBAR EXCEPT STIRRUPS AND HOOPS.
2. ALL REBAR SHALL BE SPACED AT 5" CENTERS UNLESS OTHERWISE NOTED.
3. MAINTAIN A MINIMUM OF 1 1/2" OF CONCRETE COVER OVER ALL REBAR.
4. TABS WILL BE 1/2" X 3" X 7" GALVANIZED STEEL PLATES. EVENLY SPACE 8 TABS AROUND EACH SLAB. INSERT TABS 4" INTO CONCRETE, 6 1/2" FROM OUTSIDE EDGE OF SLAB.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

MANHOLE REDUCING SLAB

DRAFTED	--
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DESIGNED	--
LAYOUT	ED5
DATE/TIME	4/6/2022 10:18 PM
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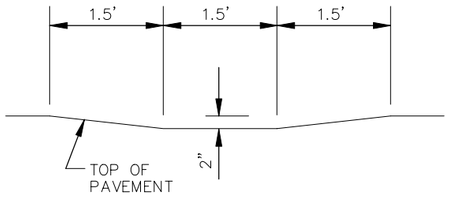
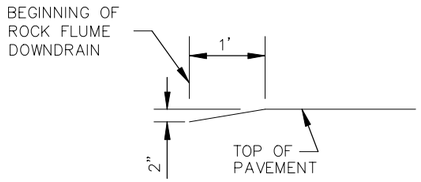
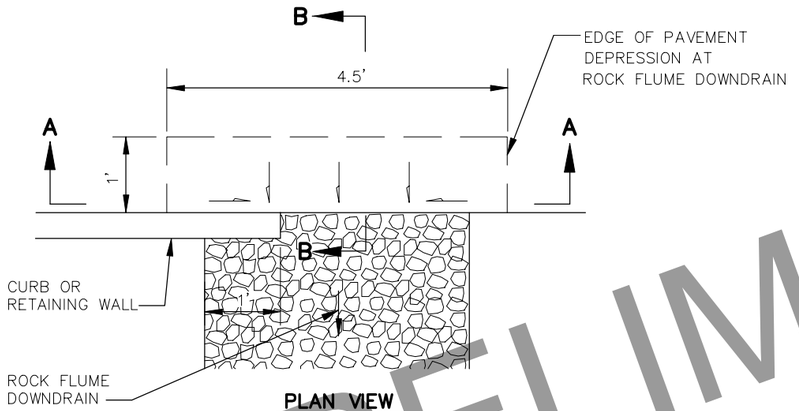


SECTION A–A

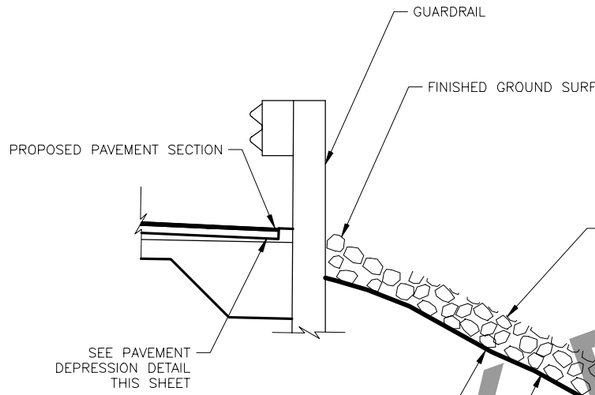


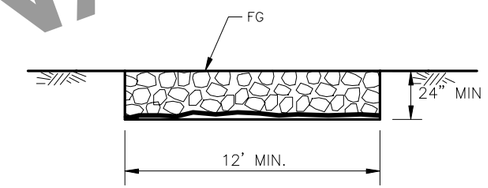
SECTION B–B



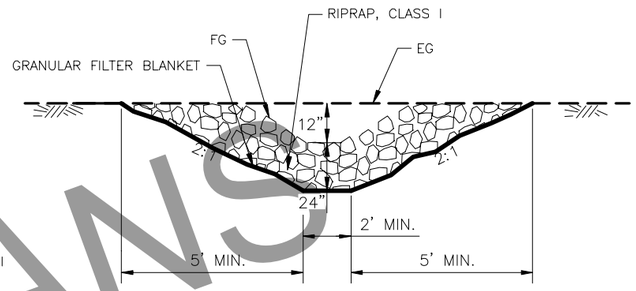
PLAN VIEW

PAVEMENT DEPRESSION AT ROCK FLUME DOWNDRAIN

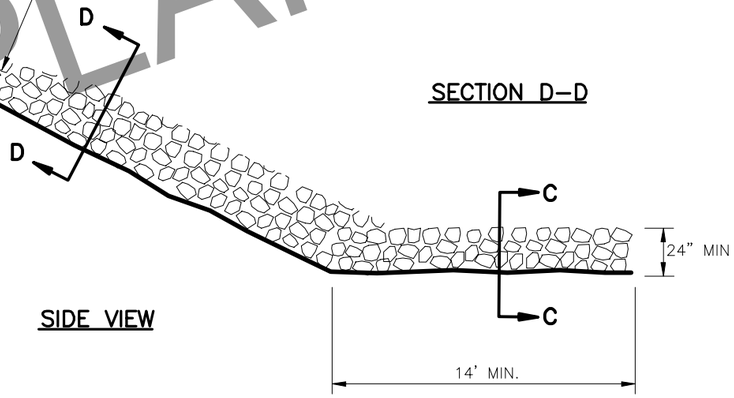




SECTION C–C



SECTION D–D



SIDE VIEW

ROCK FLUME DOWNDRAIN

NOTES:

1. EXCAVATE TO PLACE ROCK SO THAT THE TOP OF FLUME SIDES ARE AT ORIGINAL OR FINAL GRADE.
2. SHAPE THE CHANNEL TO PROPER GRADE AND CROSS–SECTION AS SHOWN IN THE PLANS.
3. PLACE FILTER BLANKET PRIOR TO PLACEMENT OF RIPRAP.
4. INSTALL PERPENDICULAR TO SLOPE CONTOURS.
5. EXTEND THE DRAIN BEYOND THE TOE OF THE SLOPE AND PROVIDE RIPRAP AS SHOWN.
6. GRANULAR FILTER BLANKET SHALL HAVE THICKNESS OF 4", GRADATION OF D50=4"
7. GRANULAR FILTER BLANKET SHALL BE SUBSIDIARY TO RIPRAP.

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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ROCK FLUME DOWNDRAIN DETAILS

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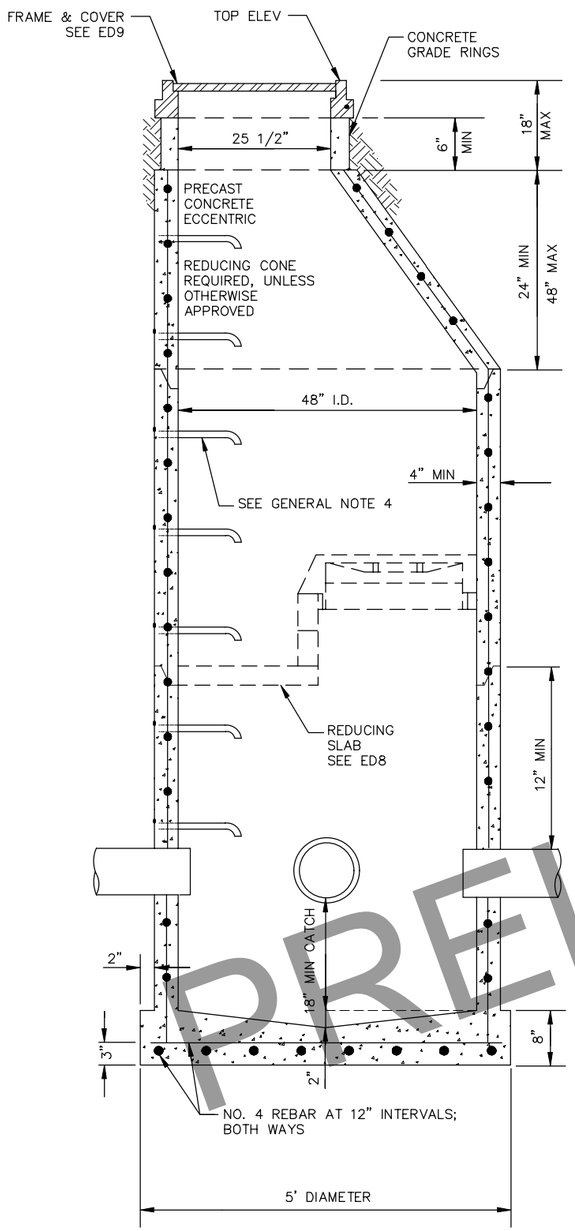
NO.	DATE	REVISION

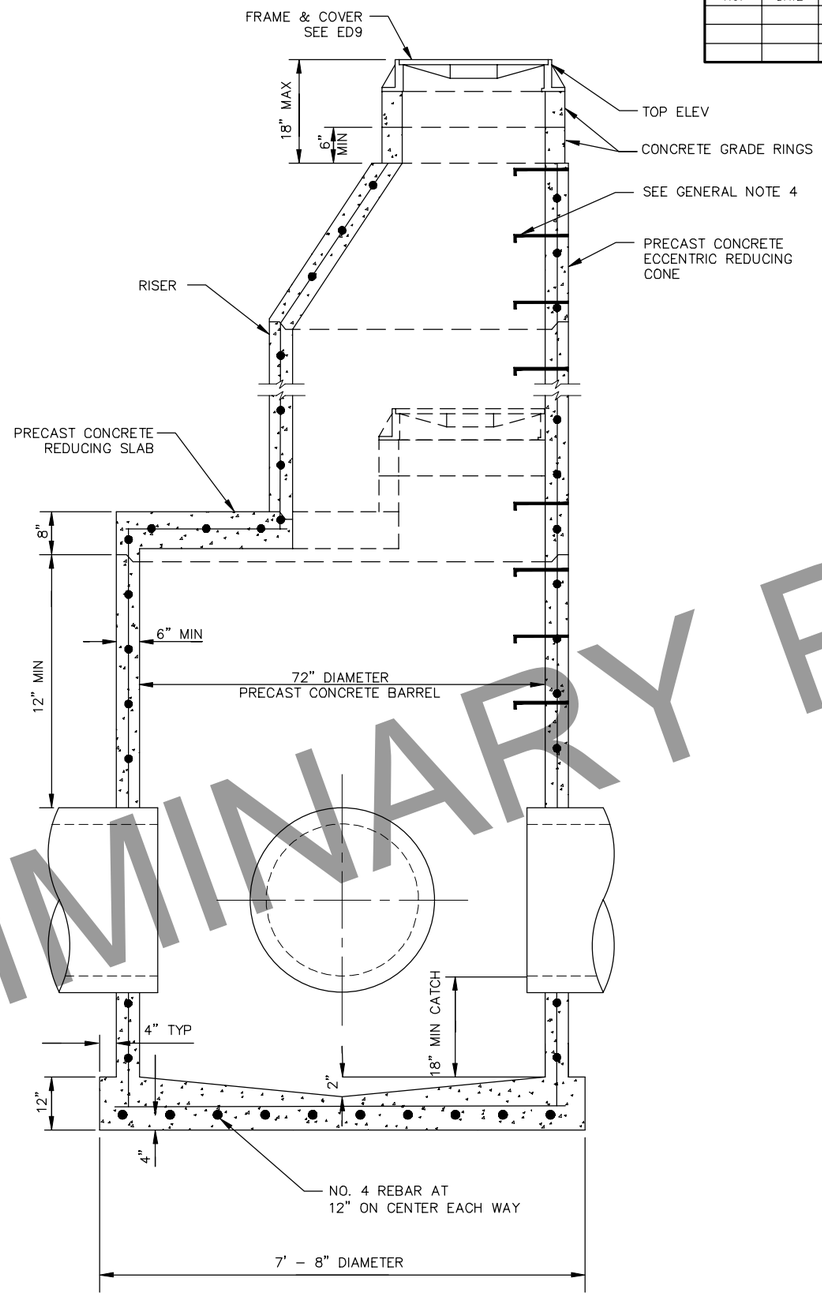
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	ED7	ED9



MOA MANHOLE – TYPE A

MANHOLE TYPE A NOTES:

1. PRIMARY LEADS NOT TO EXCEED 24" CPEP OR HDPE WITH INCLUDED ANGLE BETWEEN LEADS GREATER THAN OR EQUAL TO 135°, OR PRIMARY LEADS NOT TO EXCEED 18" CPEP OR HDPE WITH INCLUDED ANGLE LESS THAN 135°.
2. A TYPE A MANHOLE SHALL NOT BE USED WHEN BOTH CATCH BASIN AND ACCESS FUNCTIONS ARE REQUIRED.



MOA MANHOLE – TYPE B

MANHOLE TYPE B NOTES:

1. PRIMARY LEADS NOT TO EXCEED TWO 36" CPEP OR HDPE WITH INCLUDED ANGLE BETWEEN LEADS GREATER THAN OR EQUAL TO 135°.
2. USE THE TWO HOLE PRECAST REDUCING SLAB DETAIL IDENTIFIED ON SHEET ED9 WHEN ACCESS AND CATCH BASIN FUNCTIONALITY IS REQUIRED. CONTRACTOR SHALL ALIGN THE MANHOLE SO THAT THE LADDER RUNGS ARE IN LINE WITH THE MANHOLE ACCESS LID. A 3" GRADE RING UNDER THE CATCH BASIN IS SUFFICIENT FOR THE TWO–HOLE CONFIGURATION.

GENERAL NOTES:

1. MANHOLE SECTIONS SHALL CONFORM TO A.S.T.M. C–478.
2. EXTEND PIPE 2" INTO MANHOLE. SEAL PIPE PENETRATIONS WITH NON–SHRINKABLE GROUT MIXED WITH POTABLE WATER I.A.W. MANUFACTURERS RECOMMENDATIONS.
3. BLOCKOUTS SHALL BE FORMED.
4. PLACE RUNGS 12" ON–CENTER ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAX. FROM BOTTOM OF MANHOLE & 8" MAX. FROM TOP OF CONE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, BOTTOM RUNG TO BE PLACED 6" OVER SMALLEST PIPE. WHEN USING REDUCING CONE, MAXIMUM DEPTH TO FIRST LADDER RUNG IS 24". WHEN USING FLAT SINGLE ACCESS LIDS, THE MAXIMUM DEPTH TO THE FIRST LADDER RUNG IS 28". FOR FLAT DUAL ENTRY LIDS, THE MAXIMUM DISTANCE TO FIRST LADDER RUNG IS 34". SEE MANHOLE STEP (FOR MH TYPE A) AND 34" (FOR MH TYPE B) DETAIL ON SHEET ED4.
5. MANHOLE SHALL HAVE MINIMUM OF ONE 6" GRADE RING.
6. BACKFILL AROUND MANHOLE WITH A MINIMUM OF 3' SELECTED MATERIAL, TYPE A. BACKFILL SHALL BE INCIDENTAL TO COST OF MANHOLE INSTALLATION.
7. CATCH BASIN LEADS SHALL ENTER THE MANHOLE AT LEAST ONE PRIMARY LEAD DIAMETER ABOVE THE TOP OF THE PRIMARY LEAD UNLESS MINIMUM PIPE SLOPES CANNOT BE ACHIEVED.
8. STEEL REQ'D FOR BARREL SHALL CONFORM TO A.S.T.M. C–478. EMBED STEEL IN BASE SO THAT FIRST BARREL SECTION IS CONNECTED WITH BASE.
9. "RAM–NEK" OR EQUAL AND PRIME BARREL JOINTS. HEAT "RAM–NEK" AND SEAL SURFACES BEFORE FINAL ASSEMBLY.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

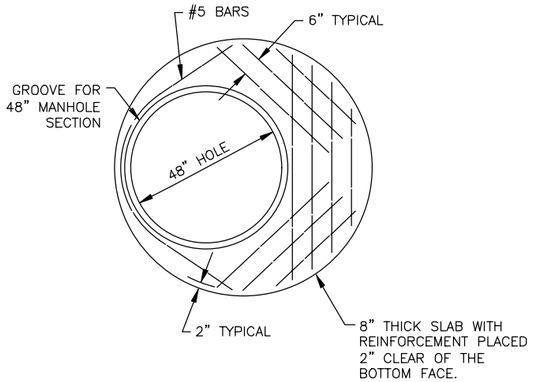
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MOA MANHOLE – TYPE A/B DETAILS

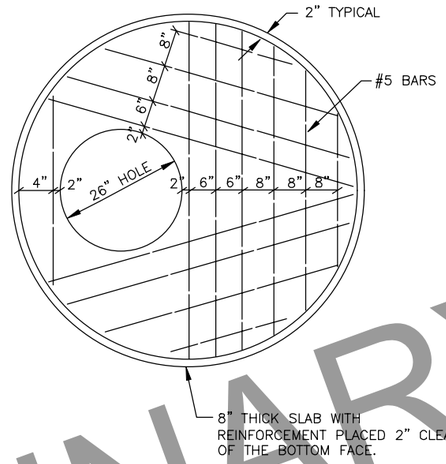
FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763301\00012_ED07_DETAILS.DWG | DATE/TIME | 4/6/2022 10:18 PM | LAYOUT | ED7 | DESIGNED | -- | CHECKED | -- | DRAFTED | --

NO.	DATE	REVISION

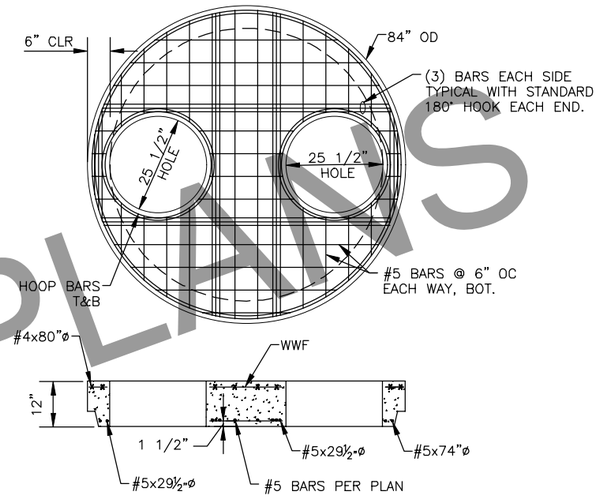
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	ED8	ED9



72" TO 48"



72" OR 48" TO 26"



TWO HOLE (72" TO TWO 25 1/2")

MOA MANHOLE REDUCING SLABS

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

MOA MANHOLE – TYPE A/B
DETAILS

FILE C:\PW_WORKDIR\DEN001\RK0537776\D08763330\00012_ED08_DETAILS.DWG
DATE/TIME 4/6/2022 10:18 PM | LAYOUT ED8 | DESIGNED -- | CHECKED -- | DRAFTED --

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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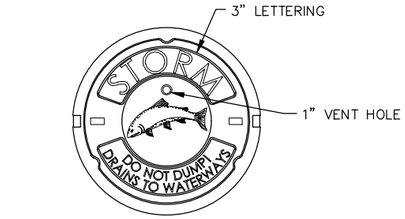
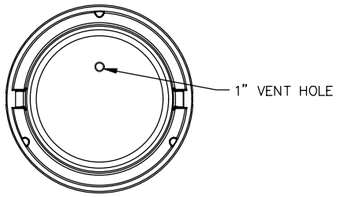
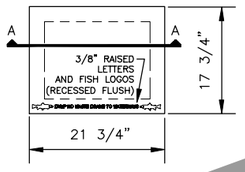


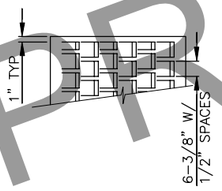


STORM DRAIN COVERS SHALL HAVE TWO (2) CLOSED PICKHOLES, ONE ON EACH SIDE OF THE COVER.

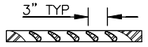
STORM DRAIN MANHOLE COVER



CURB INLET GRATE



OFFSET VANE GRATE

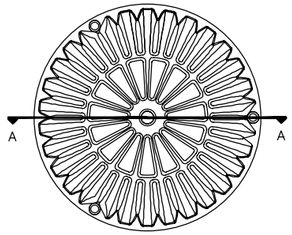


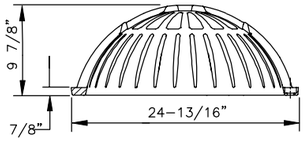
SECTION AA

NOTES:

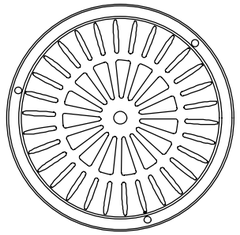
1. MINIMUM CASTING WEIGHT SHALL BE 400 LBS. FOR CURB INLET FRAME, HOOD & GRATE.
2. CURB INLET HOOD & GRATE SHALL CONFORM TO ASTM A536.

CATCH BASIN GRATE FOR MOUNTABLE CURB AND GUTTER

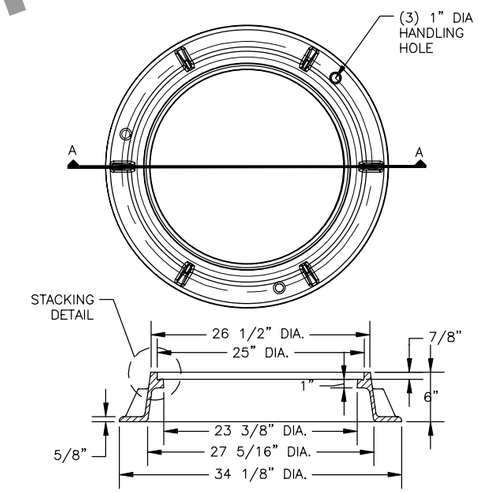




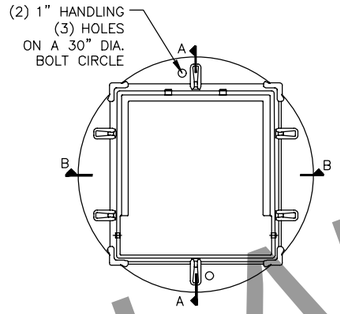
SECTION A-A



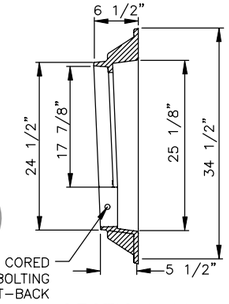
STORM DRAIN BEEHIVE INTAKE COVER



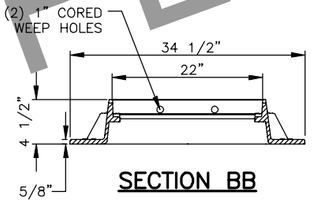
SECTION AA MANHOLE FRAME



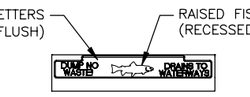
CURB INLET FRAME



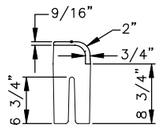
SECTION AA



SECTION BB

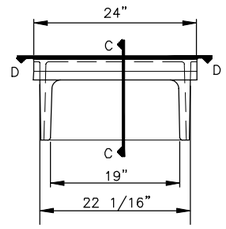


SECTION DD



SECTION CC

CURB INLET HOOD



CATCH BASIN FRAME AND HOOD FOR TOP ELEV MOUNTABLE CURB AND GUTTER

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MOA MANHOLE – TYPE A/B DETAILS

DATE/TIME 4/6/2022 10:18 PM | LAYOUT ED9 | DESIGNED -- | CHECKED -- | DRAFTED --
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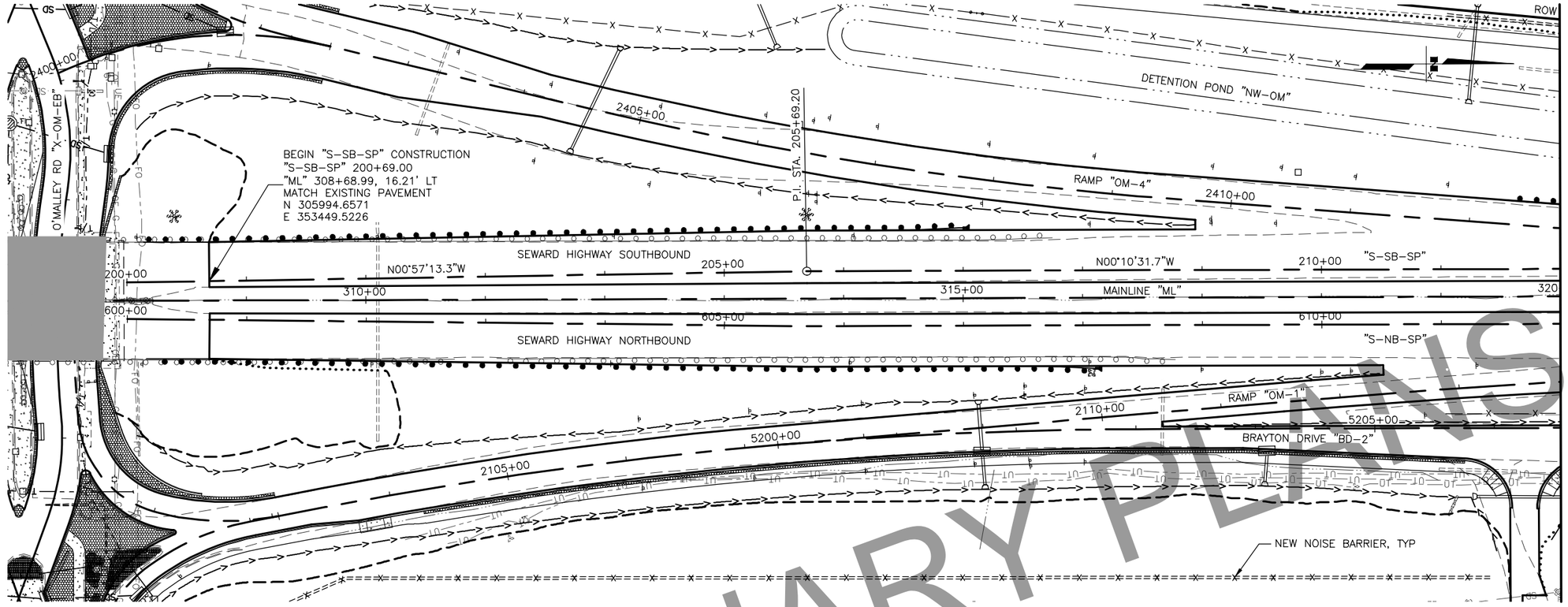
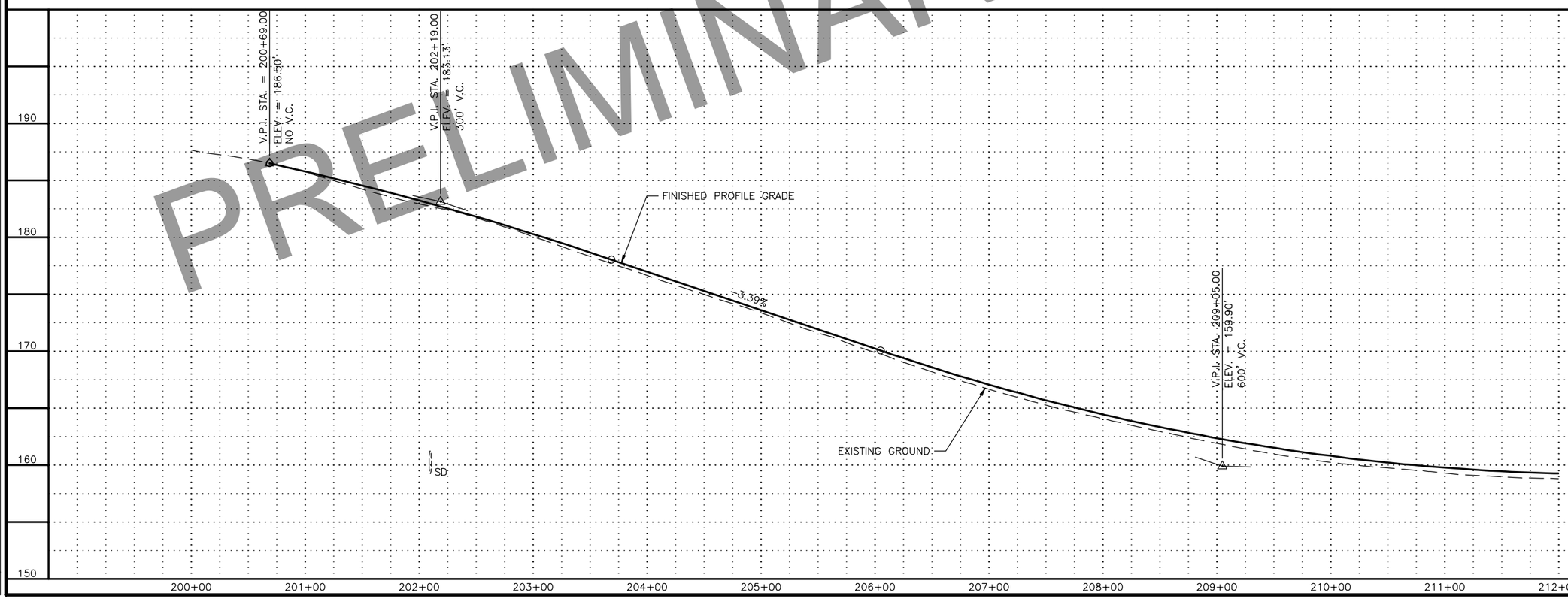


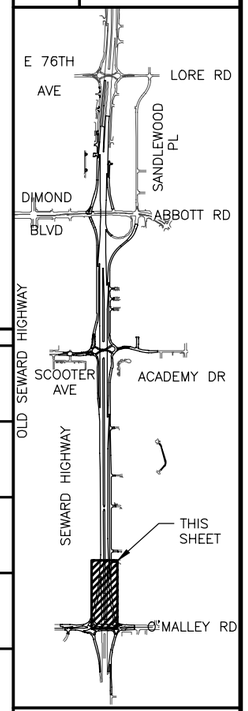


SHEET NO.	TOTAL SHEETS
F1	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
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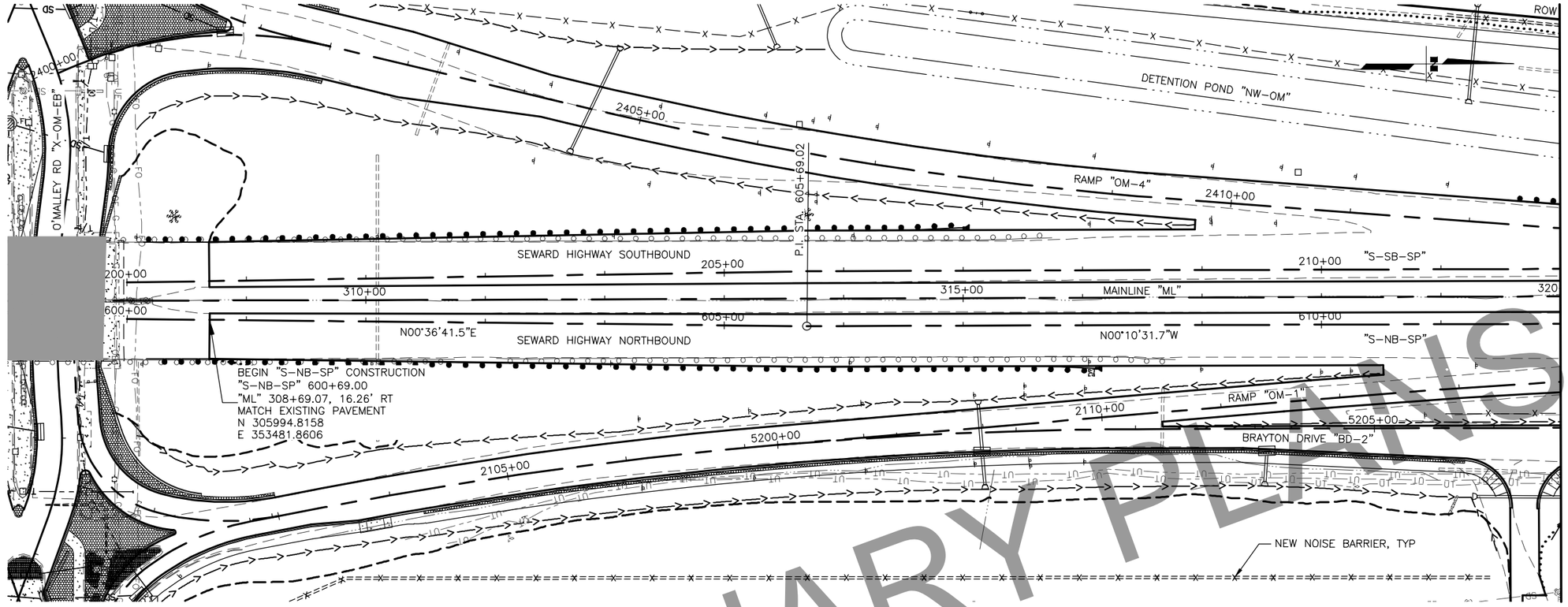
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

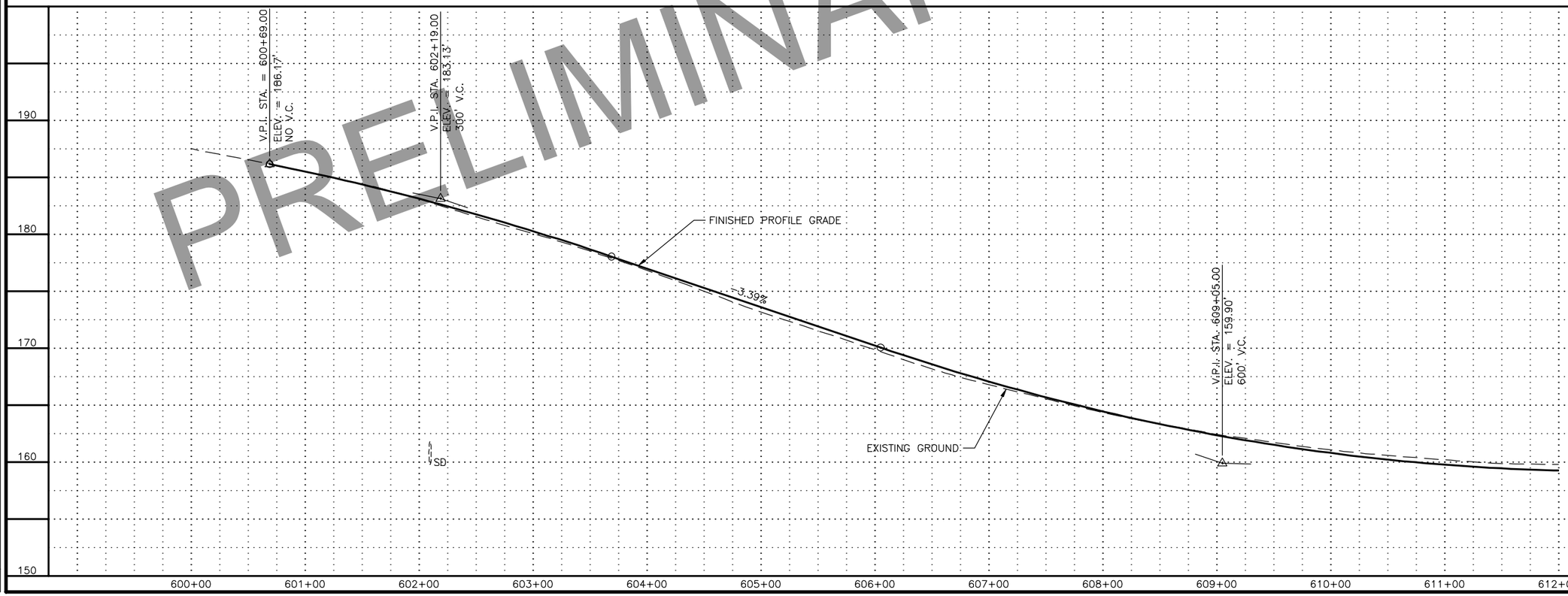
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "S-SB-SP"
PLAN AND PROFILE
BOP TO 212+00

DATE/TIME 4/7/2022 11:13 AM | LAYOUT F1 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F01_PNP.DWG



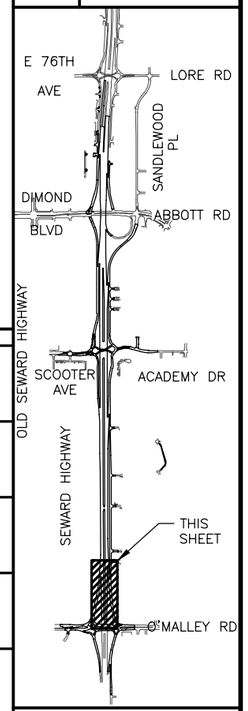


SHEET NO.	TOTAL SHEETS
F2	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "S-NB-SP" PLAN AND PROFILE BOP TO 612+00

DATE/TIME 4/7/2022 11:13 AM | LAYOUT F2 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F02_PNP.DWG

MATCH LINE "S-SB-SP" STA 212+00
SHEET F1

MATCH LINE "S-SB-SP" STA 225+00
SHEET F5

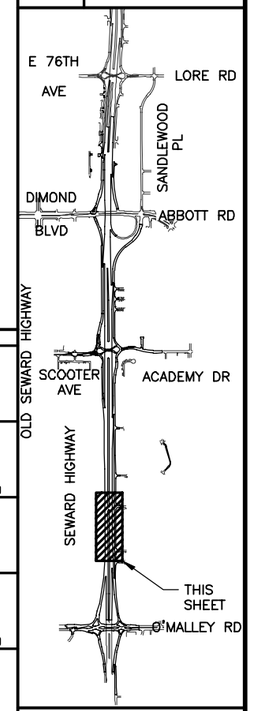
ROW
NEW NOISE BARRIER, TYP
S019
P017
P019
P021
P020
S020
P345
RAMP "OM-4"
SEWARD HIGHWAY SOUTHBOUND
215+00
220+00
N00°10'31.7"W
"S-SB-SP"
225
325+00
MAINLINE "ML"
330+00
615+00
620+00
625
S345
SEWARD HIGHWAY NORTHBOUND
"S-NB-SP"
2115+00
RAMP "OM-1"
5210+00
5215+00
BRAYTON DRIVE "BD-2"
THUJA AVE
CEDRUS CT
ROW

170
160
150
140
130
FINISHED PROFILE GRADE
-0.21%
EXISTING GROUND
P345
SD
SD
SS
212+00
213+00
214+00
215+00
216+00
217+00
218+00
219+00
220+00
221+00
222+00
223+00
224+00
225+00

SHEET NO.	TOTAL SHEETS
F3	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC626

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "S-SB-SP"
PLAN AND PROFILE
212+00 TO 225+00

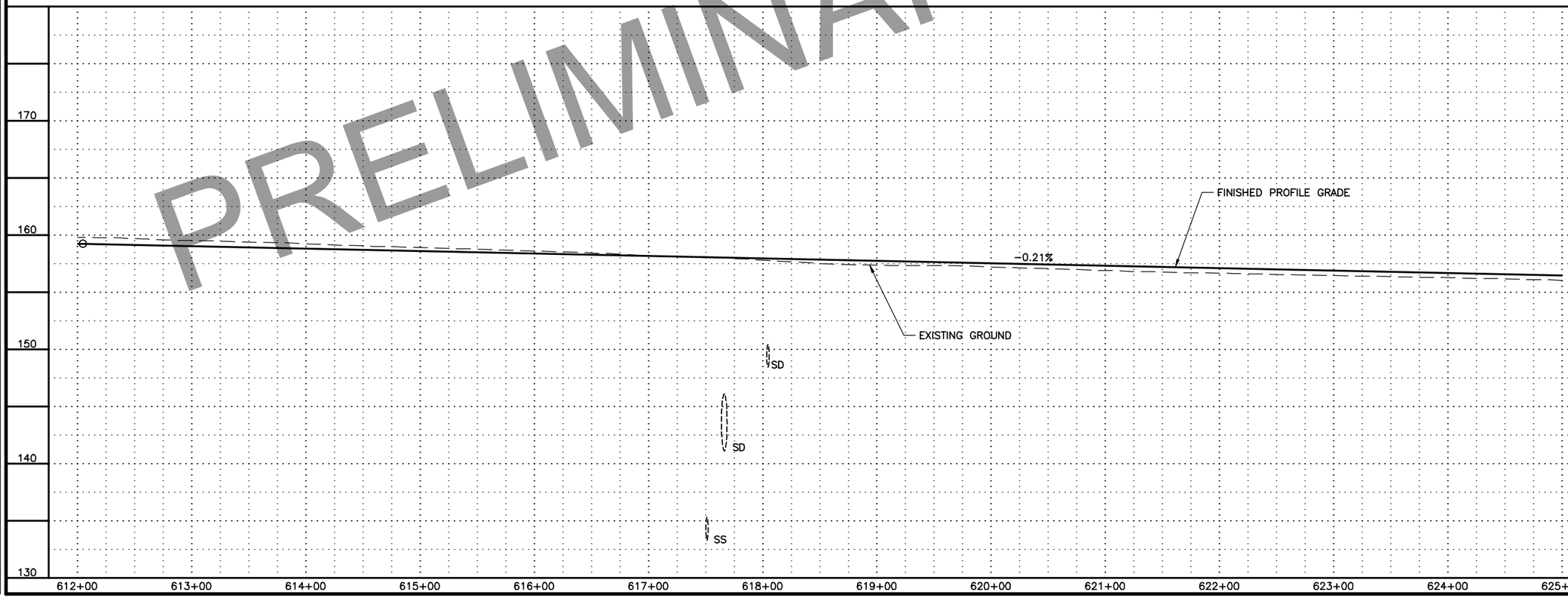
DATE/TIME | 4/8/2022 2:54 PM | LAYOUT | F3 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JCO65526\D0876331\00012_F03_PNP.DWG

MATCH LINE "S-NB-SP" STA 612+00
SHEET F2

MATCH LINE "S-NB-SP" STA 625+00
SHEET F5

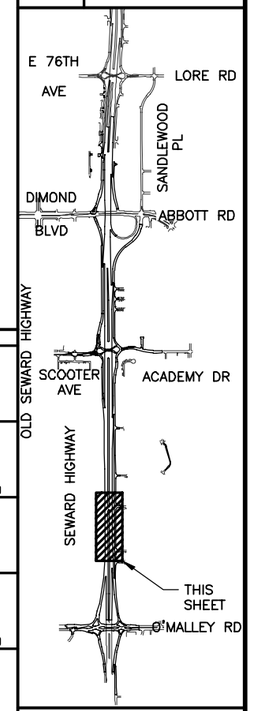
ROW
NEW NOISE BARRIER, TYP
RAMP "OM-4"
SEWARD HIGHWAY SOUTHBOUND
215+00
220+00
"S-SB-SP"
225
325+00
330+00
MAINLINE "ML"
615+00
620+00
625
N00°10'31.7"W
SEWARD HIGHWAY NORTHBOUND
"S-NB-SP"
RAMP "OM-1"
2115+00
5210+00
5215+00
BRAYTON DRIVE "BD-2"
THUJA AVE
CEDRUS CT
ROW
S346
S347
S348
S349
P347
P348
P349
F1
SD
SS
UT
UE
G
GS



SHEET NO.	TOTAL SHEETS
F4	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
JEFFREY PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC626

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

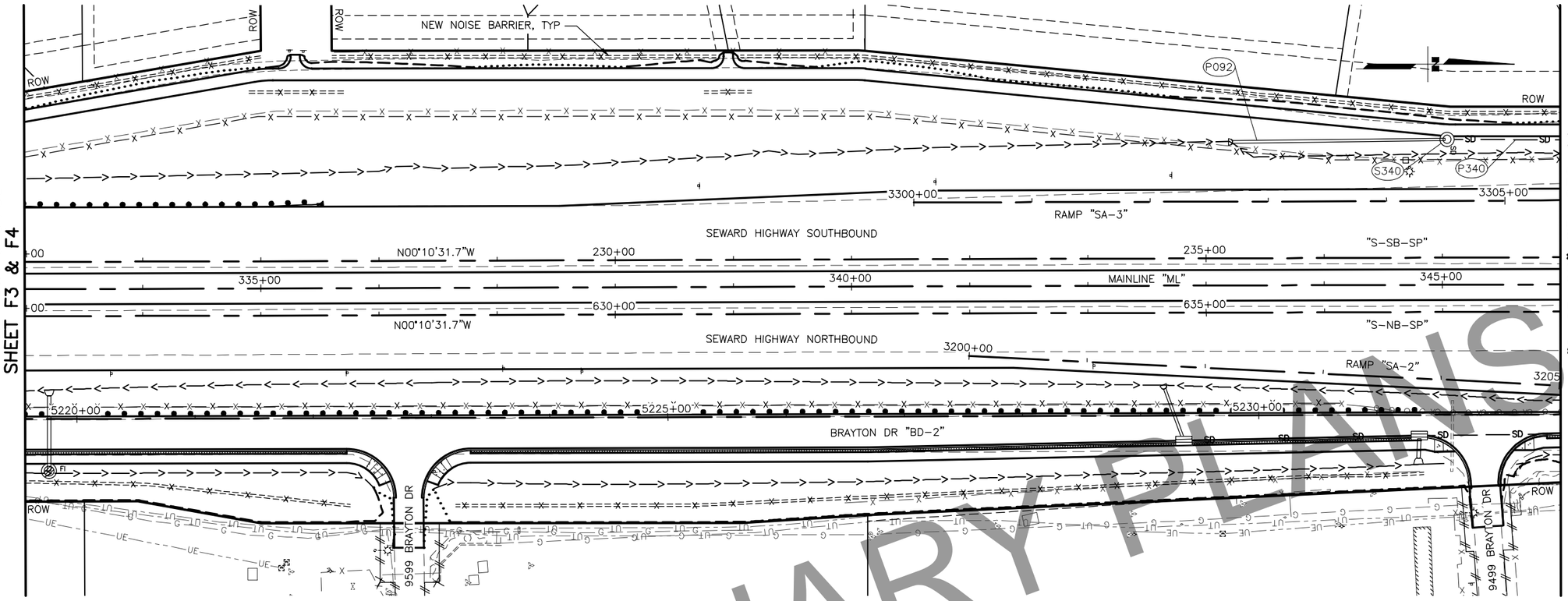
MAINLINE "S-NB-SP"
PLAN AND PROFILE
612+00 TO 625+00

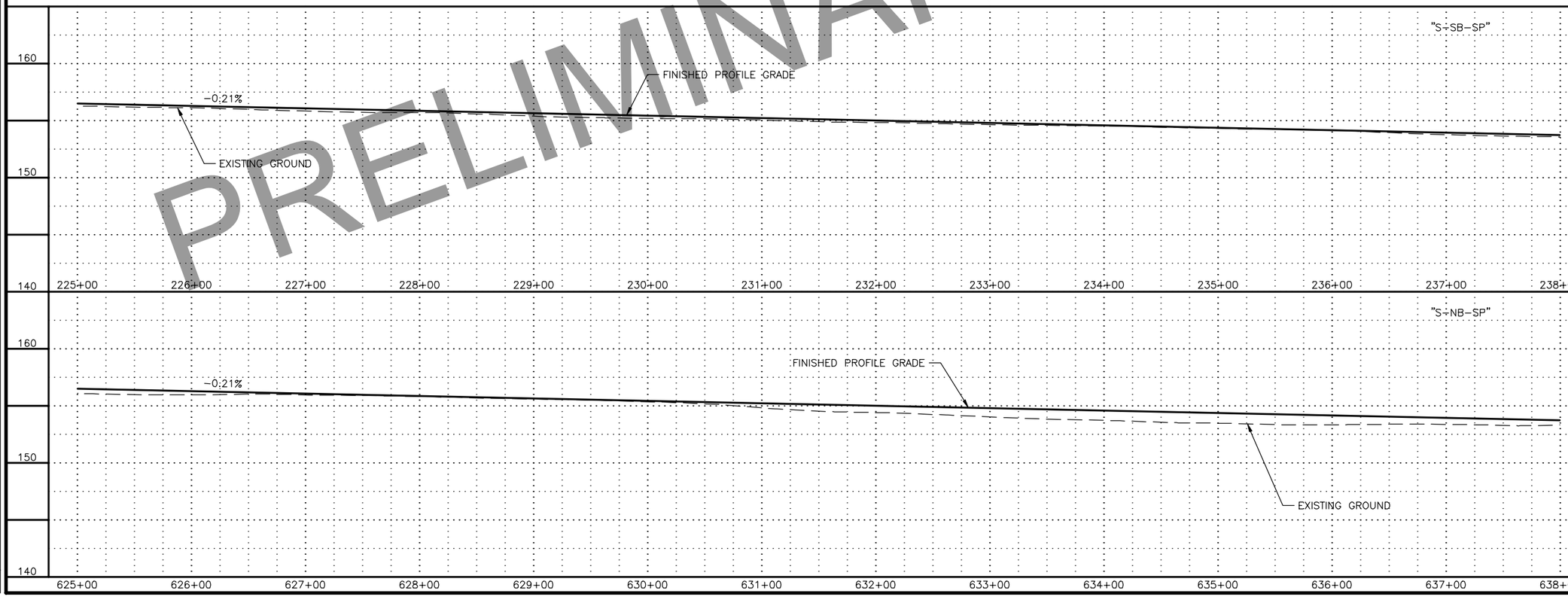
DATE/TIME 4/8/2022 2:55 PM | LAYOUT F4 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JCO65526\D0876331\00012_F04_PNP.DWG

MATCH LINE "S-SB-SP" STA 225+00
"S-NB-SP" STA 625+00
SHEET F3 & F4

MATCH LINE "S-SB-SP" STA 238+00
"S-NB-SP" STA 638+00
SHEET F6

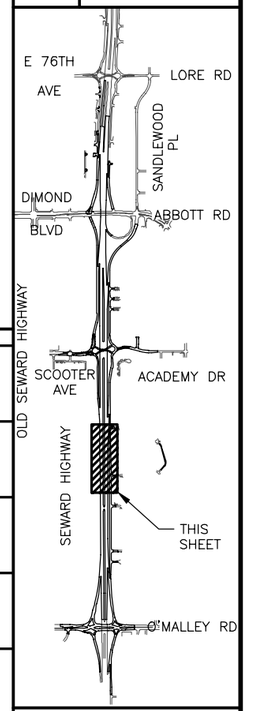




SHEET NO.	TOTAL SHEETS
F5	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "S-SB-SP"
"S-NB-SP"
PLAN AND PROFILE
225+00 TO 238+00
625+00 TO 638+00

DATE/TIME 4/7/2022 11:14 AM | LAYOUT F5 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK053776\D08763311\00012_F05_PNP.DWG

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:14 AM	JM	RM	MR

LAYOUT: F6

FILE [C:\PW_WORKDIR\DEN001\RK053776\D08763311\00112_F06_PNP.DWG]

MATCH LINE "S-SB-SP" STA 238+00
"S-NB-SP" STA 638+00
SHEET F5

MATCH LINE "ML" STA 359+00
SHEET F7 & F8

END "S-SB-SP" 240+50.05
"ML" 348+50.00, 23.00' LT
N 309975.6242
E 353430.5365

END "S-NB-SP" 640+50.00
"ML" 348+50.00, 23.00' RT
N 309975.7676
E 353476.5363

ROW

DETENTION POND "SW-SA"

RAMP "SA-3"

SEWARD HIGHWAY SOUTHBOUND

SEWARD HIGHWAY NORTHBOUND

MAINLINE "ML"

BRAYTON DRIVE "BD-2"

RAMP "SA-2"

RETAINING WALL "H2"

RETAINING WALL "B2"

NEW NOISE BARRIER, TYP

N00°10'31.7"W "S-SB-SP" 240+00

N00°10'31.7"W "S-NB-SP" 640+00

355+00 N00°10'31.7"W

3310+00

3315+00

3210+00

3215+00

5235+00

P300 P320 P321 P324 P325 P326 P330 P336 P365 P370 S315 S320 S321 S324 S325 S326 S330 S336 P405 P410 P412 P414 S405 S410 S412 S414

"ML"

-0.21%

2.21%

EXISTING GROUND

FINISHED PROFILE GRADE

END "S-SB-SP" STA. = 240+50.05
BEGIN "ML" STA. = 348+50.00
ELEV. = 153.19'

END "S-NB-SP" STA. = 640+50.00
BEGIN "ML" STA. = 348+50.00
ELEV. = 153.19'

V.P.I. STA. 351+64.00
ELEV. = 152.52'
535' V.C.

238+00 239+00 240+00

"S-SB-SP"

"S-NB-SP"

SD

P320

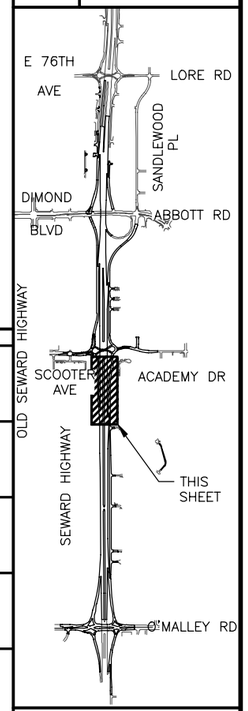
150 140 130 170 160

638+00 639+00 640+00 349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00 359+00

SHEET NO.	TOTAL SHEETS
F6	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
PLAN AND PROFILE
238+00 TO 240+50
638+00 TO 640+50
346+00 TO 359+00

SHEET NO.	TOTAL SHEETS
F7	F52
STATE	YEAR
ALASKA	2022

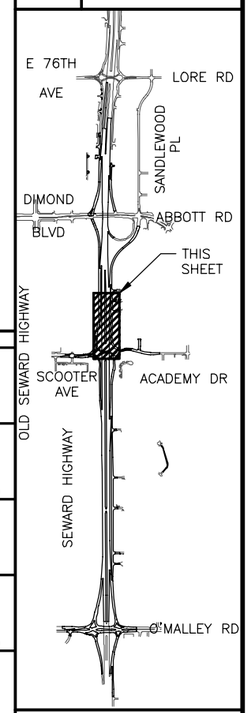
PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

MATCH LINE "ML" STA 359+00
SHEET F6

MATCH LINE "N-SB-SP" STA 502+00
SHEET F9

SCOOTER AVE "X-SA"
RAMP "SA-4"
ACADEMY DR "X-SA"
RETAINING WALL "H3"
RETAINING WALL "B3"
SEWARD HIGHWAY SOUTHBOUND
SEWARD HIGHWAY NORTHBOUND
MAINLINE "ML"
BEGIN "N-SB-SP"
"N-SB-SP" 500+00.00
"ML" 369+50+00, 23.00' LT
N 312075.6136
E 353424.1050
"N-SB-SP" N00°10'31.7"W
"N-NB-SP"
RAMP "DI-2"
BRAYTON DR "BD-3"
DETENTION POND "NE-SA"
NEW NOISE BARRIER, TYP
S HEATHER MEADOWS LP
MOSS CREEK AVE
ROW
SD
3400+00
3405+00
3410+00
360+00
365+00
370+00
500+00
900+00
4200+00
5300+00
5305+00
5310+00



V.P.I. STA. 362+65.00
ELEV. = 176.85'
1315' V.C.

SCOOTER AVE ℄

BEGIN BRIDGE
"ML" 359+53.75
ELEV 167.67

END BRIDGE
"ML" 360+99.25
ELEV 168.54

FINISHED PROFILE GRADE

END "ML" STA. = 369+50.00
BEGIN "N-SB-SP" STA. = 500+00.00
ELEV. = 157.40'

-2.84%

EXISTING GROUND

SD

P577

170
160
150
140
130

359+00 360+00 361+00 362+00 363+00 364+00 365+00 366+00 367+00 368+00 369+00 370+00 371+00

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML" AND "N-SB-SP"
PLAN AND PROFILE
359+00 TO 371+50
500+00 TO 502+00

DATE/TIME 4/7/2022 11:14 AM | LAYOUT F7 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F07_PNP.DWG

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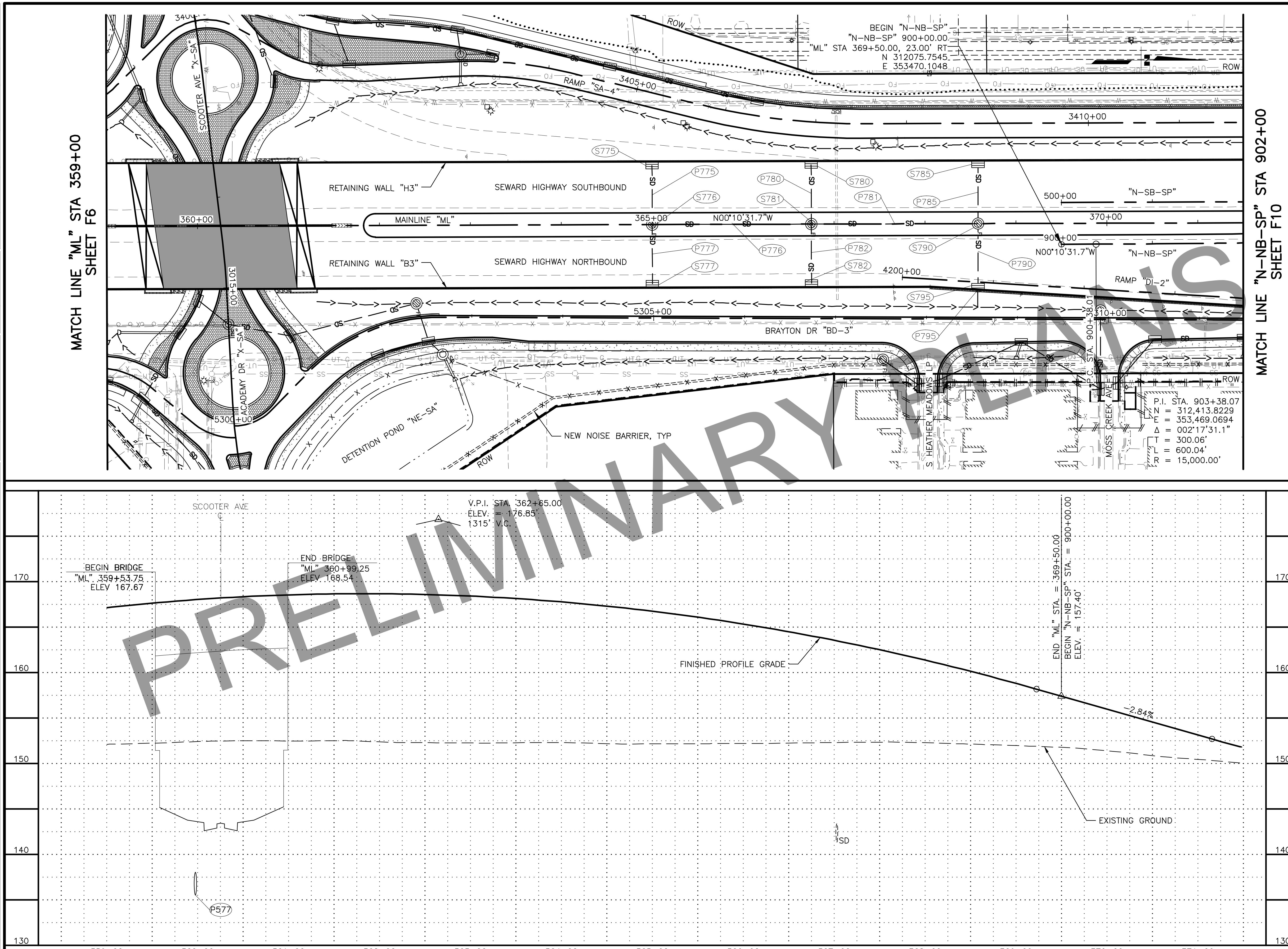


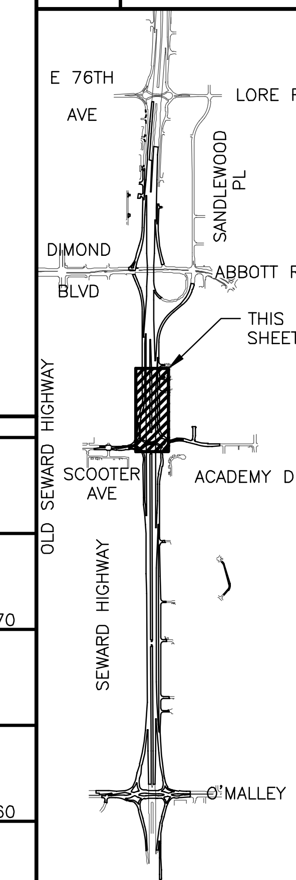
MATCH LINE "ML" STA 359+00
SHEET F6
MATCH LINE "N-NB-SP" STA 902+00
SHEET F10
BEGIN "N-NB-SP"
"N-NB-SP" 900+00.00
"ML" STA 369+50.00, 23.00' RT
N 312075.7545
E 353470.1048
RAMP "SA-4"
3405+00
3410+00
SCOOTER AVE "X-SA"
RETAINING WALL "H3"
SEWARD HIGHWAY SOUTHBOUND
MAINLINE "ML"
360+00
365+00
370+00
N00°10'31.7"W
500+00
"N-SB-SP"
900+00
"N-NB-SP"
RETAINING WALL "B3"
SEWARD HIGHWAY NORTHBOUND
4200+00
RAMP "DI-2"
5305+00
BRAYTON DR "BD-3"
ACADEMY DR "X-SA"
5300+00
DETENTION POND "NE-SA"
NEW NOISE BARRIER, TYP
S HEATHER MEADOWS LP
MOSS CREEK AVE
P.C. STA. 900+38.01
P.I. STA. 903+38.07
N = 312,413.8229
E = 353,469.0694
Δ = 002°17'31.1"
T = 300.06'
L = 600.04'
R = 15,000.00'
ROW
PRELIMINARY PLANS
SCOOTER AVE
V.P.I. STA. 362+65.00
ELEV. = 176.85'
1315' V.C.
BEGIN BRIDGE
"ML" 359+53.75
ELEV 167.67
END BRIDGE
"ML" 360+99.25
ELEV 168.54
END "ML" STA. = 369+50.00
BEGIN "N-NB-SP" STA. = 900+00.00
ELEV. = 157.40'
FINISHED PROFILE GRADE
-2.84%
EXISTING GROUND
359+00
360+00
361+00
362+00
363+00
364+00
365+00
366+00
367+00
368+00
369+00
370+00
371+00
130
140
150
160
170

SHEET NO.	TOTAL SHEETS
F8	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML" AND "N-NB-SP"
PLAN AND PROFILE
359+00 TO 371+50
900+00 TO 902+00

MATCH LINE "N-SB-SP" STA 502+00
SHEET F7

MATCH LINE "N-SB-SP" STA 515+00
SHEET F11

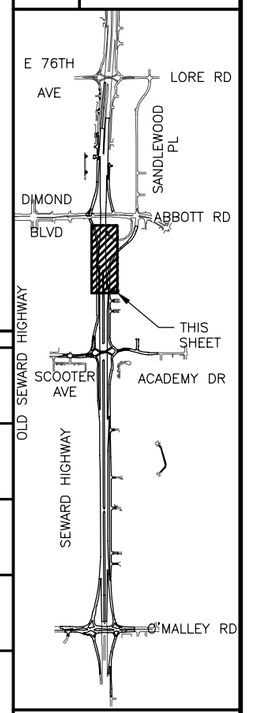
ROW
6300+00
3415+00
6305+00
HOMER DR "HD-3"
P.C. STA. 507+85.58
P.R.C. STA. 512+09.86
6310+00
P.I. STA. 514+22.02
N = 313,497.5175
E = 353,431.7503
Δ = 001°37'14.2"
T = 212.15'
L = 424.28'
R = 15,000.00'
RAMP "SA-4"
3420+00
SEWARD HIGHWAY SOUTHBOUND
N00°10'31.7"W
505+00
"N-SB-SP"
510+00
515
MAINLINE "ML"
375+00
910+00
380+00
905+00
"N-NB-SP"
SEWARD HIGHWAY NORTHBOUND
RETAINING WALL "B3"
4205+00
RAMP "DI-2"
5315+00
P.I. STA. 509+97.74
N = 313,073.3460
E = 353,421.0493
Δ = 001°37'14.2"
T = 212.15'
L = 424.28'
R = 15,000.00'
BRAYTON DR "BD-3"
SD
4210+00
4500+00
RAMP "DI-5"
ROW
N HEATHER MEADOWS LP
NEW NOISE BARRIER
ROW

160
150
140
130
120
V.P.I. STA. 505+23.00
ELEV. = 142.56'
715' V.C.
EXISTING GROUND
1.11%
SD
SS
FINISHED PROFILE GRADE
502+00 503+00 504+00 505+00 506+00 507+00 508+00 509+00 510+00 511+00 512+00 513+00 514+00 515+00

SHEET NO.	TOTAL SHEETS
F9	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "N-SB-SP"
PLAN AND PROFILE
502+00 TO 515+00

DATE/TIME 4/7/2022 11:15 AM | LAYOUT F9 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D08763311\00012_F09_PNP.DWG

MATCH LINE "N-NB-SP" STA 902+00
SHEET F8

MATCH LINE "N-NB-SP" STA 915+00
SHEET F12

ROW
6300+00
3415+00
P.R.C. STA. 906+38.05
6305+00
HOMER DR "HD-3"
3420+00
RAMP "SA-4"
P.T. STA. 912+38.09
6310+00
SEWARD HIGHWAY SOUTHBOUND
505+00
"N-SB-SP"
510+00
515
915
MAINLINE "ML"
375+00
910+00
380+00
905+00
N00°10'31.7"W
"N-NB-SP"
SEWARD HIGHWAY NORTHBOUND
P005
RETAINING WALL "B3"
4205+00
RAMP "DI-2"
5315+00
BRAYTON DR "BD-3"
4210+00
ROW
N HEATHER MEADOWS LP
NEW NOISE BARRIER
ROW

P.I. STA. 909+38.11
N = 313,013.3865
E = 353,443.2331
Δ = 002°17'31.1"
T = 300.06'
L = 600.04'
R = 15,000.00'

4500+00
RAMP "DI-5"

160
150
140
130
120

V.P.I. STA. 905+23.00
ELEV. = 142.56'
715' V.C.

FINISHED PROFILE GRADE
1.11%
P005
EXISTING GROUND

902+00 903+00 904+00 905+00 906+00 907+00 908+00 909+00 910+00 911+00 912+00 913+00 914+00 915+00

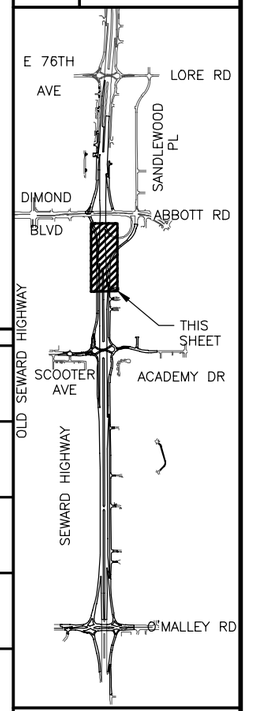
SHEET NO.	TOTAL SHEETS
F10	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "N-NB-SP"
PLAN AND PROFILE
902+00 TO 915+00

DATE/TIME 4/7/2022 11:15 AM | LAYOUT F10 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F10_PNP.DWG]

MATCH LINE "N-SB-SP" STA 515+00
SHEET F9

MATCH LINE "N-SB-SP" STA 528+00
SHEET F13

P.T. STA. 516+34.14

P.C. STA. 525+25.65

DRAINAGE ESMT

RAMP "DI-4"

RAMP "DI-1"

HOMER DR "HD-4"

BRAYTON DR "BD-4"

MAINLINE "ML"

SEWARD HIGHWAY SOUTHBOUND

SEWARD HIGHWAY NORTHBOUND

"N-SB-SP"

"N-NB-SP"

N00°10'31.7"W

DIMOND BLVD

ROW

4100+00

4105+00

4110+00

5400+00

5405+00

385+00

390+00

395+00

520+00

525+00

920+00

925+00

V.P.I. STA. 517+08.00
ELEV. = 155.69'
1270' V.C.

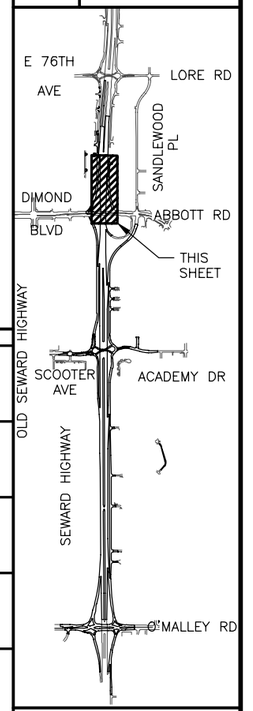
FINISHED PROFILE GRADE

EXISTING GROUND

-3.09%

160
150
140
130
120

515+00 516+00 517+00 518+00 519+00 520+00 521+00 522+00 523+00 524+00 525+00 526+00 527+00 528+00



SHEET NO.	TOTAL SHEETS
F11	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

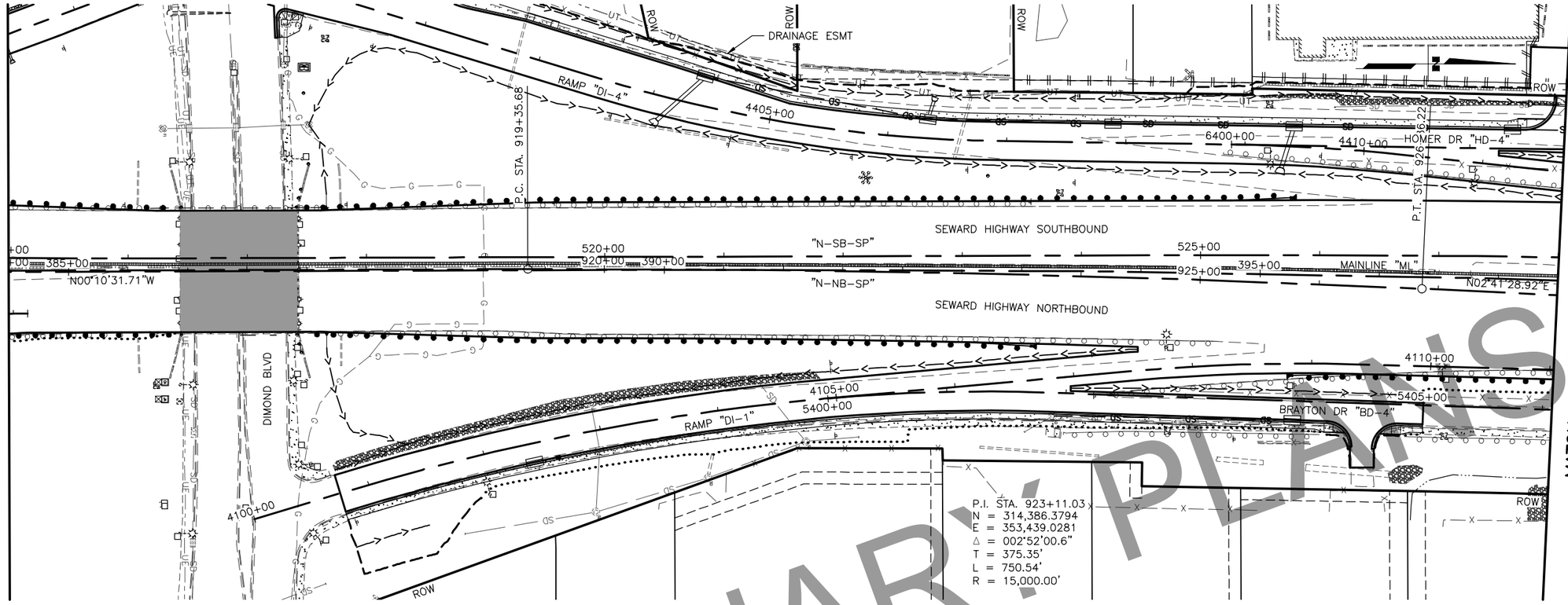
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

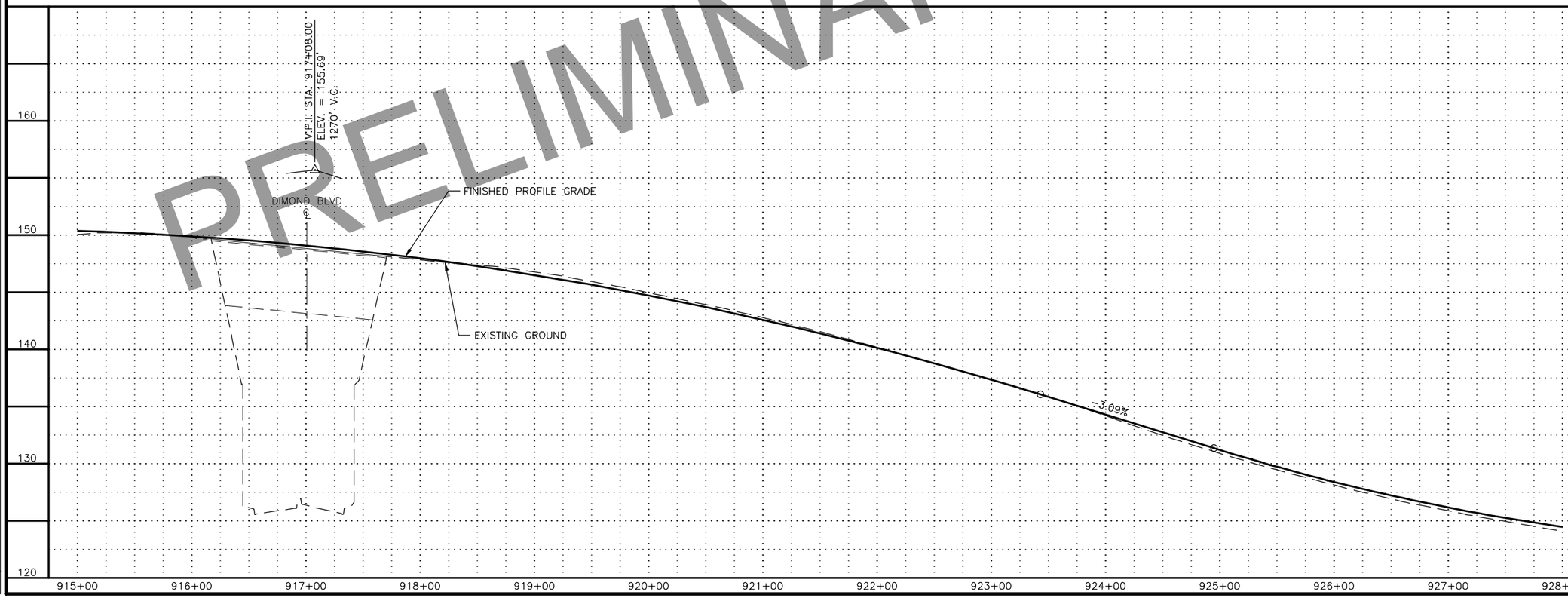
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "N-SB-SP"
PLAN AND PROFILE
515+00 TO 528+00

DATE/TIME 4/7/2022 11:15 AM | LAYOUT F11 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RC053776\D08763311\00112_F11_PNP.DWG

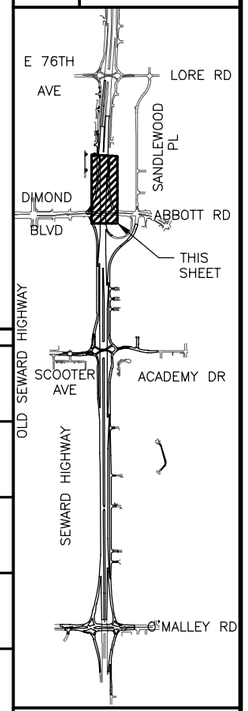




SHEET NO.	TOTAL SHEETS
F12	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "N-NB-SP"
PLAN AND PROFILE
915+00 TO 928+00

DATE/TIME | 4/7/2022 11:15 AM | LAYOUT | F12 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RC0537776\D08763311\00112_F12_PNP.DWG

DRAFTED	MR	CHECKED	JM	DESIGNED	F13	LAYOUT	4/7/2022 11:16 AM	DATE/TIME

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F13_PNP.DWG

MATCH LINE "N-SB-SP" STA 528+00
SHEET F11

MATCH LINE "N-SB-SP" STA 541+00
SHEET F15

P.I. STA. 529+38.11
N = 315,013.6337
E = 353,427.1070
Δ = 003°09'00.6"
T = 412.46'
L = 824.71'
R = 15,000.00'

P.I. STA. 536+82.33
N = 315,757.0609
E = 353,465.7391
Δ = 001°39'29.1"
T = 331.97'
L = 663.89'
R = 22,941.00'

P.C.C. STA. 533+50.36

P.T.S. STA. 540+14.26

N04°37'58.0"E

HOMER DR "HD-4"

RAMP "DI-4"

HOMER DR

SEWARD HIGHWAY SOUTHBOUND

SEWARD HIGHWAY NORTHBOUND

"N-SB-SP"

"N-NB-SP"

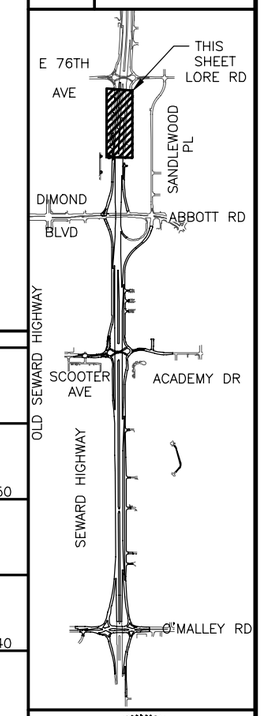
MAINLINE "ML"

RAMP "DI-1"

BRAYTON DRIVE "BD-4"

ROW

6405+00
530+00
400+00
930+00
535+00
405+00
935+00
540+00
410+00
940+00
4115+00
5408+00



V.P.I. STA. 530+25.00
ELEV. = 114.97'
1060' V.C.

V.P.I. STA. 538+68.00
ELEV. = 138.00'
500' V.C.

2.73%

FINISHED PROFILE GRADE

EXISTING GROUND

SD

150
140
130
120
110

528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00 540+00 541+00

PRELIMINARY PLANS

SHEET NO.	TOTAL SHEETS
F13	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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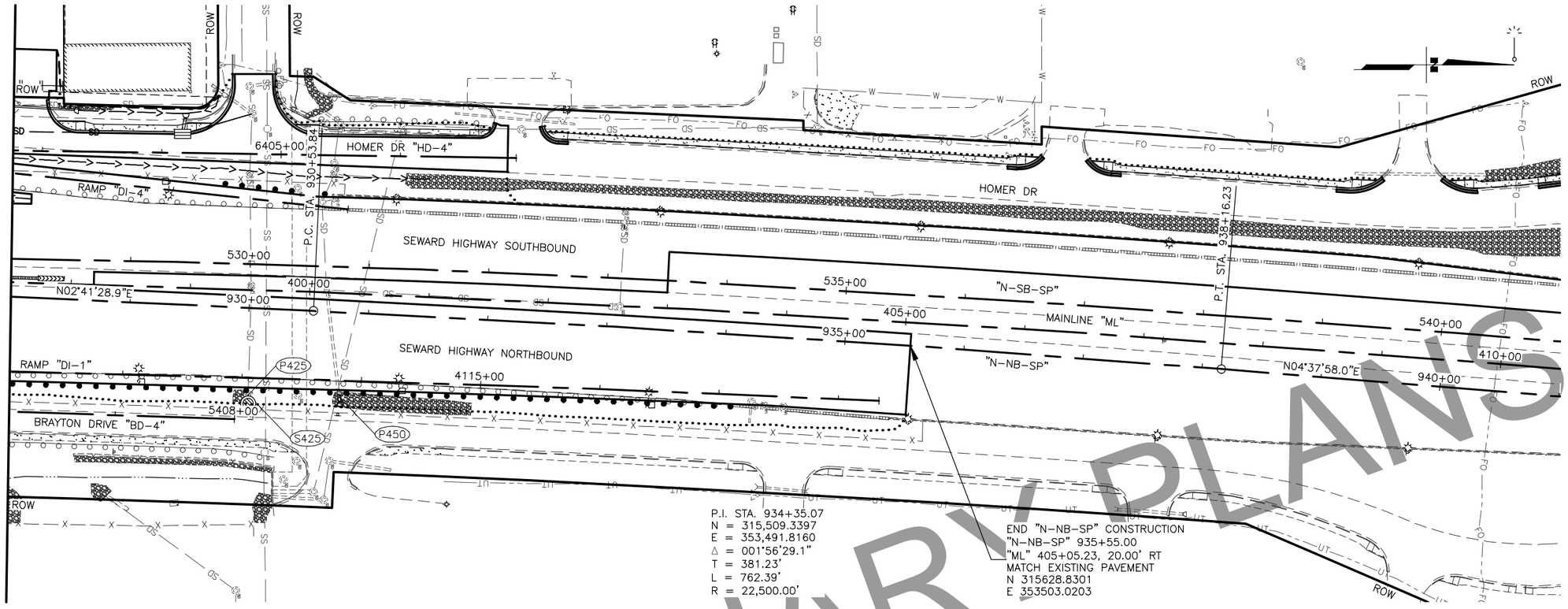
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

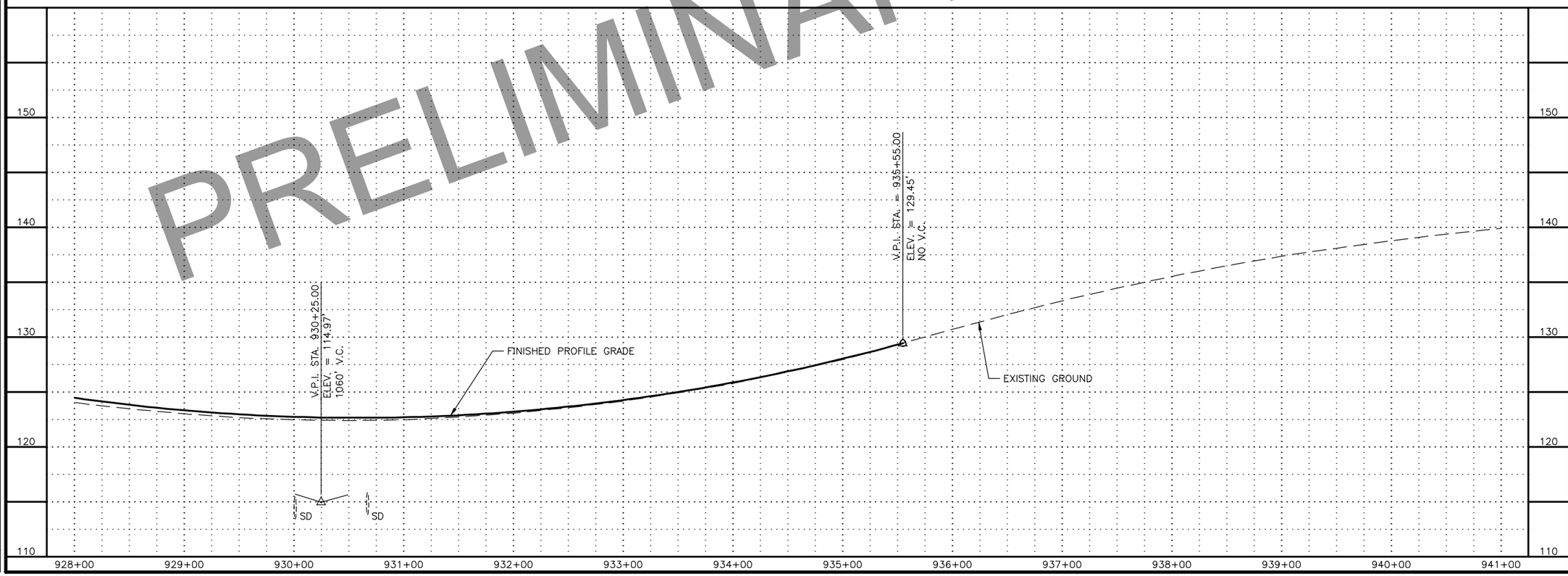
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "N-SB-SP"
PLAN AND PROFILE
528+00 TO 541+00

MATCH LINE "N-NB-SP" STA 928+00
SHEET F12

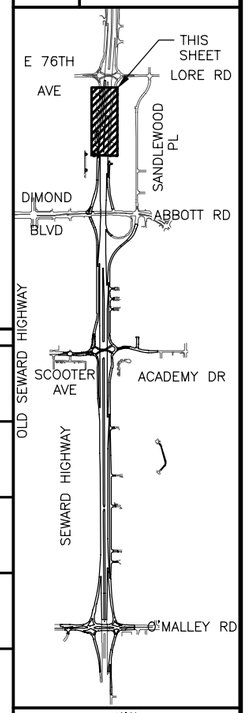




SHEET NO.	TOTAL SHEETS
F14	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "N-NB-SP" PLAN AND PROFILE 928+00 TO EOP

DATE/TIME 4/7/2022 11:16 AM | LAYOUT F14 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:_PW_WORKDIR\DEN001\RC053776\D08763331\00012_F14_PNP.DWG

DATE/TIME	DRAFTED	CHECKED	DESIGNED	LAYOUT	
4/7/2022 11:17 AM	RM	MR	JM	F15	

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F15_PNP.DWG]

MATCH LINE "N-SB-SP" STA 541+00
SHEET F13

END "N-SB-SP"
"N-SB-SP" 542+36.85
"ML" 411+85.02, 47.00' LT
MATCH EXISTING PAVEMENT
N 316311.7516
E 353486.6092

"N-SB-SP"
N04°37'58.0"E
"N-NB-SP"

415+00
420+00
SEWARD HIGHWAY SOUTHBOUND
SEWARD HIGHWAY NORTHBOUND
MAINLINE "ML"

ROW

V.P.I. STA. = 542+36.85
ELEV. = 140.92'
NO V.C.

0.79%

FINISHED PROFILE GRADE
EXISTING GROUND

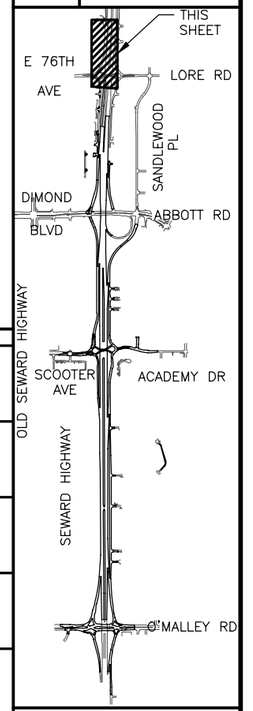
160
150
140
130
120

541+00
542+00
543+00
544+00

SHEET NO.	TOTAL SHEETS
F15	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



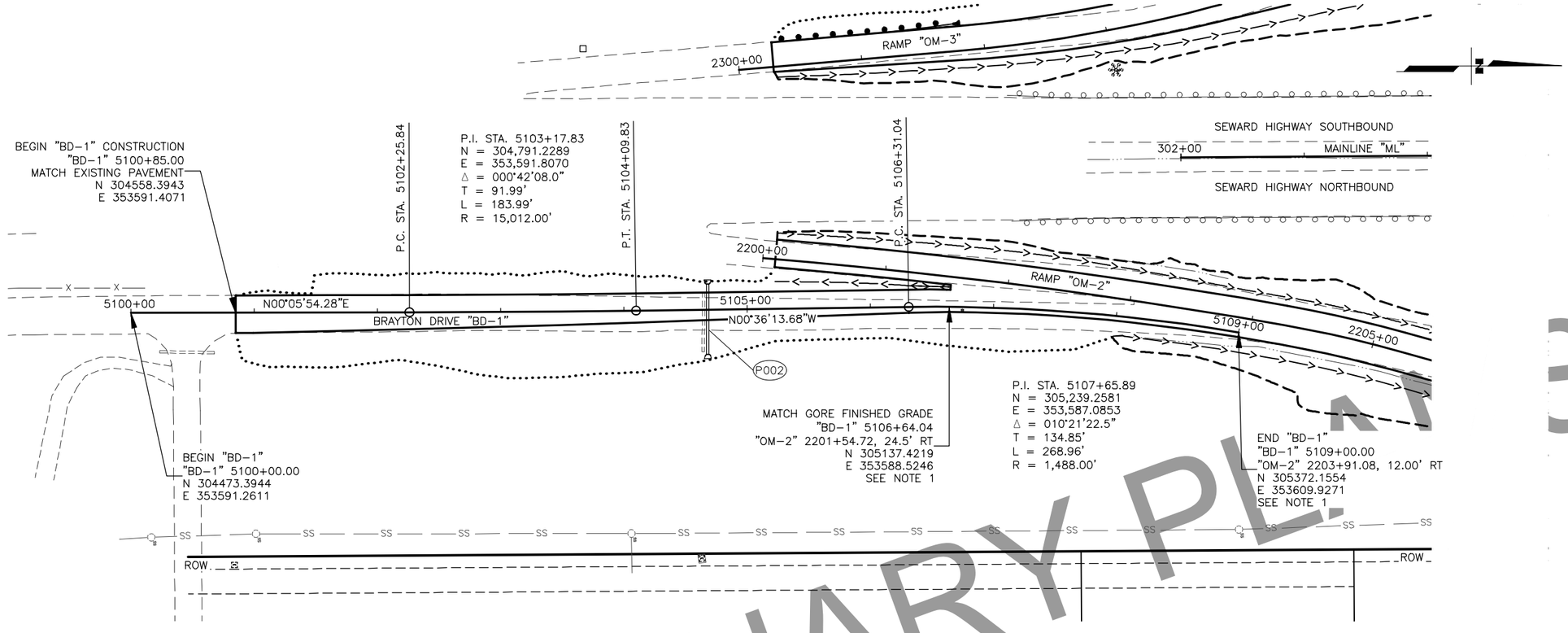
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

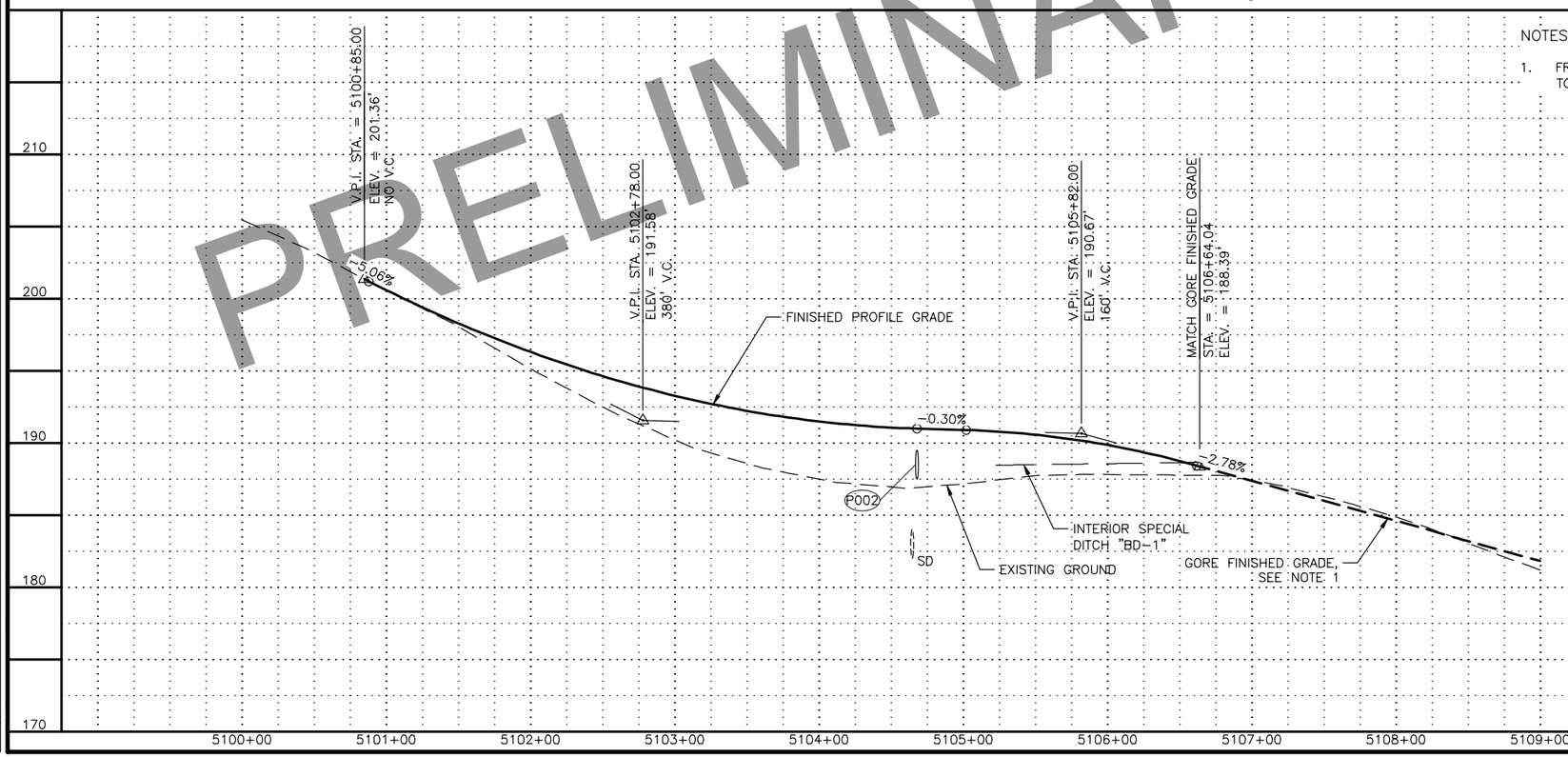
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

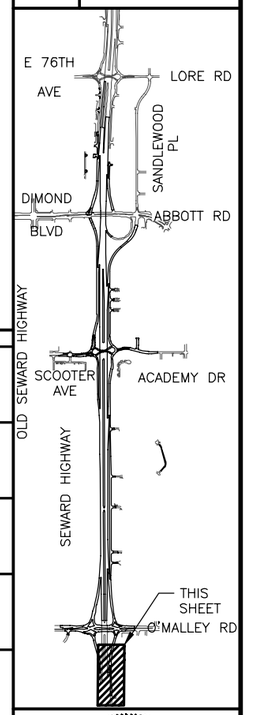
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "N-SB-SP"
PLAN AND PROFILE
541+00 TO EOP







SHEET NO.	TOTAL SHEETS
F16	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

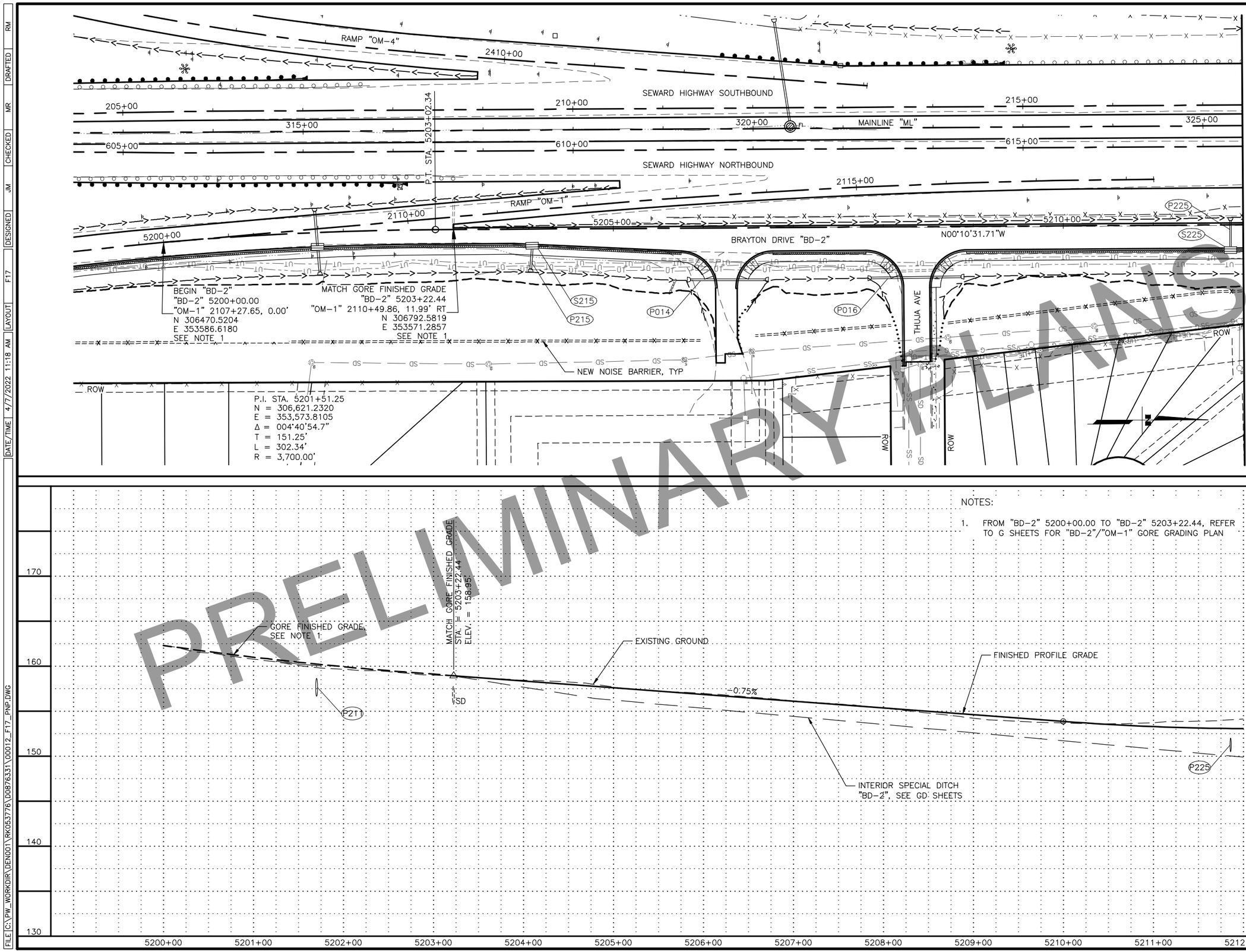
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-1"
PLAN AND PROFILE
5100+00 TO 5109+00

RM	DRAFTED	MR	CHECKED	JM	DESIGNED	F16	LAYOUT	4/7/2022 11:17 AM	DATE/TIME

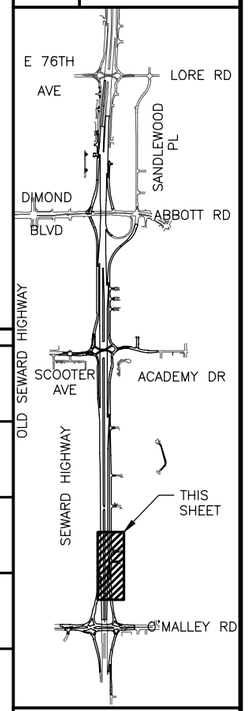
FILE C:\PW_WORKDIR\DEN001\RK053776\D0876331\00012_F16_PNP.DWG



SHEET NO.	TOTAL SHEETS
F17	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-2"
PLAN AND PROFILE
5200+00 TO 5212+00

DATE/TIME 4/7/2022 11:18 AM | LAYOUT F17 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F17_PNP.DWG

SHEET NO.	TOTAL SHEETS
F18	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

MATCH LINE "BD-2" STA 5212+00
SHEET F17

MATCH LINE "BD-2" STA 5225+00
SHEET F19

SEWARD HIGHWAY SOUTHBOUND

SEWARD HIGHWAY NORTHBOUND

MAINLINE "ML"

220+00 225+00 230+00 330+00 335+00 620+00 625+00 630+00

5215+00 5220+00 5225

N00°10'31.71"W

BRAYTON DRIVE "BD-2"

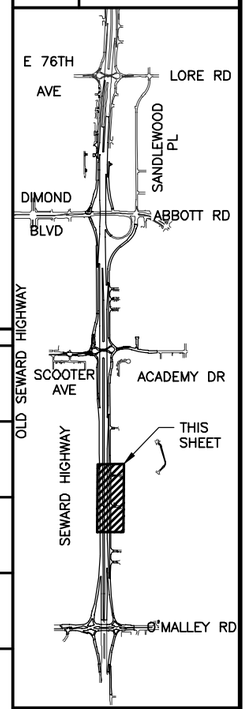
CEDRUS CT

9599 BRAYTON DR

NEW NOISE BARRIER, TYP

ROW

P228 P361 P362 S361 S362 P360



V.P.I. STA. 5214+00.00
ELEV. = 150.67'
800' V.C.

V.P.I. STA. 5222+60.00
ELEV. = 168.69'
600' V.C.

FINISHED PROFILE GRADE

2.07%

EXISTING GROUND

INTERIOR SPECIAL DITCH "BD-2", SEE GD SHEETS

SD

180 170 160 150 140

5212+00 5213+00 5214+00 5215+00 5216+00 5217+00 5218+00 5219+00 5220+00 5221+00 5222+00 5223+00 5224+00 5225+00

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC626

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-2"
PLAN AND PROFILE
5212+00 TO 5225+00

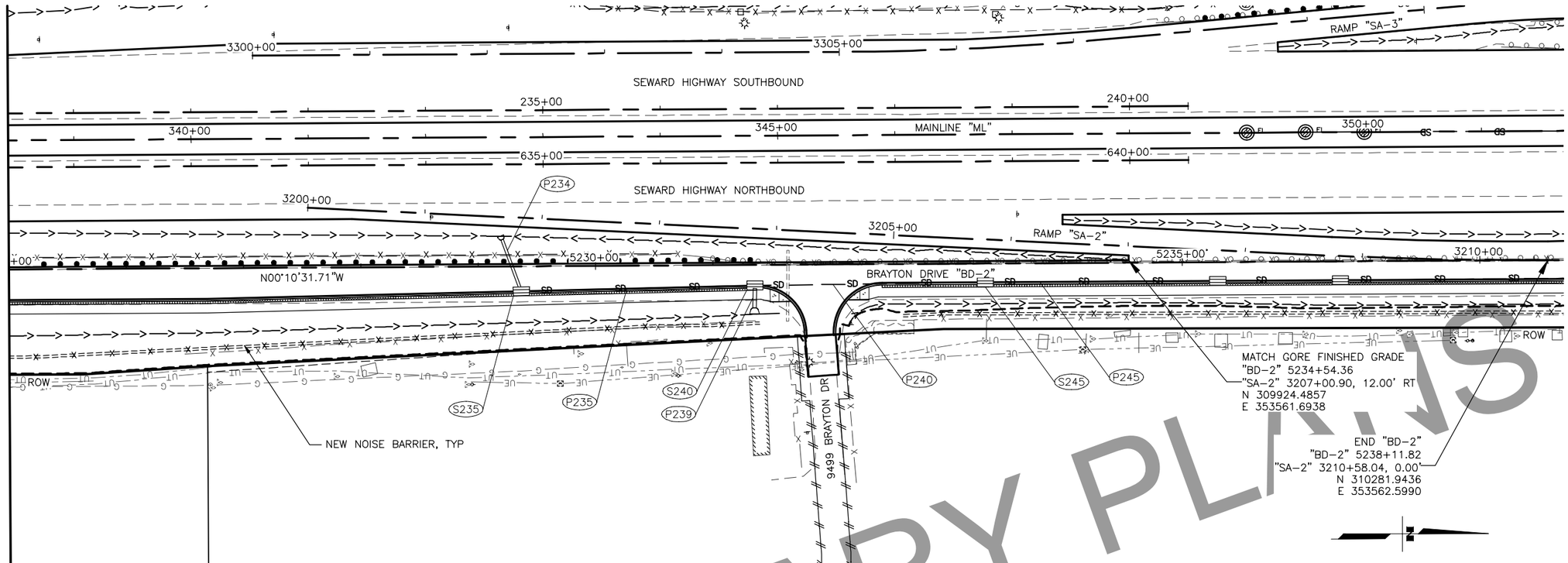
DATE/TIME 4/8/2022 2:55 PM | LAYOUT F18 | DESIGNED JM | CHECKED MR | DRAFTED RM

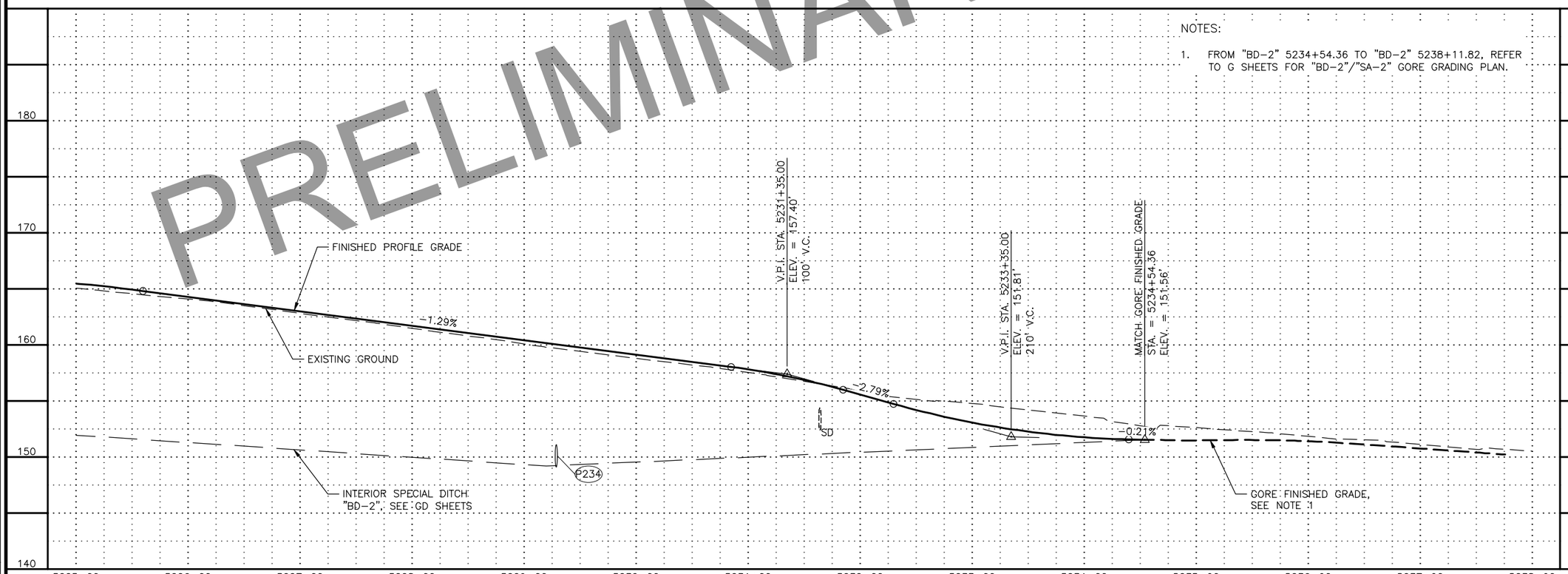
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JCO65526\D0876331\00012_F18_PNP.DWG

DATE/TIME	4/7/2022 11:18 AM
LAYOUT	F19
DESIGNED	JM
CHECKED	MR
DRAFTED	RM

FILE: C:\PW_WORKDIR\DEN001\RK053776\D0876331\00012_F19_PNP.DWG

MATCH LINE "BD-2" STA 5225+00
SHEET F18

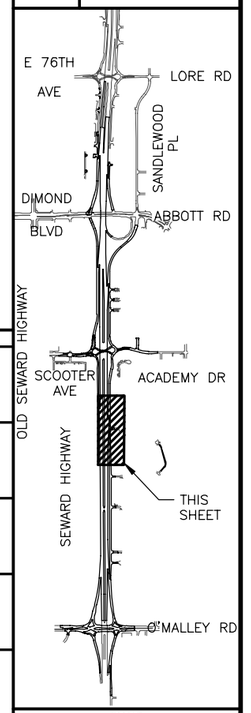




SHEET NO.	TOTAL SHEETS
F19	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



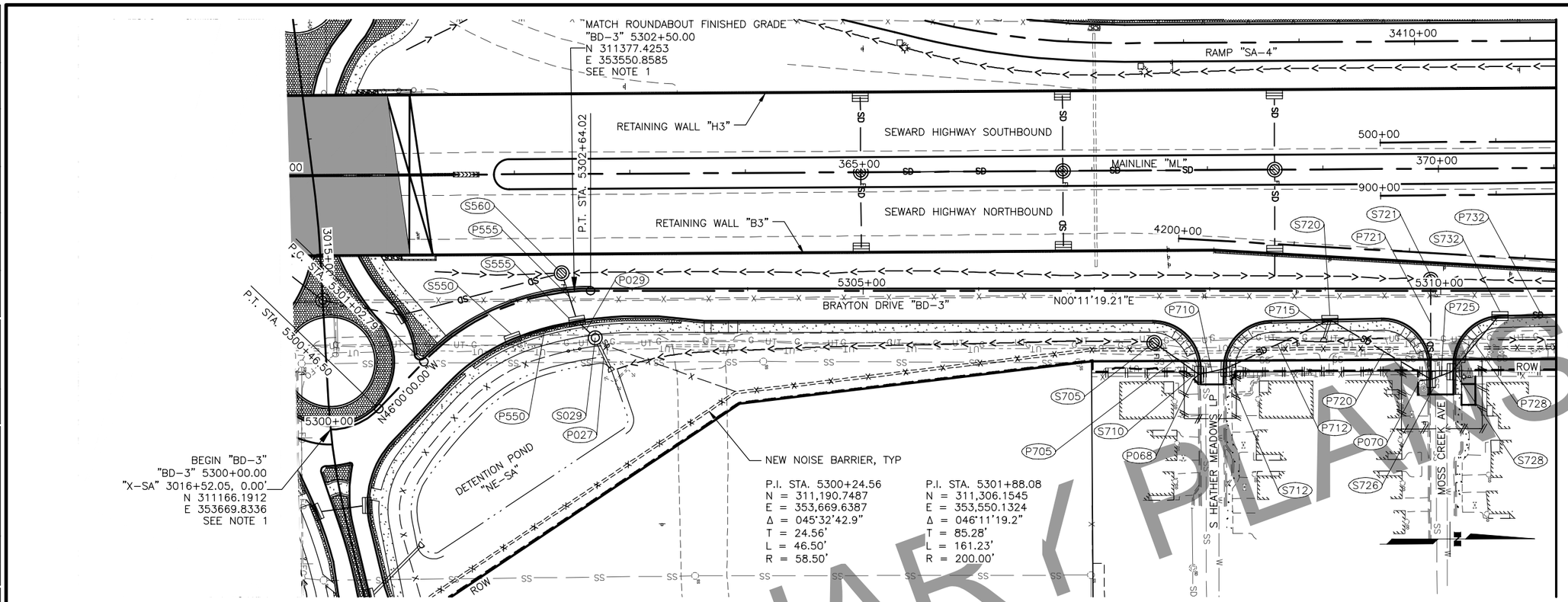
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

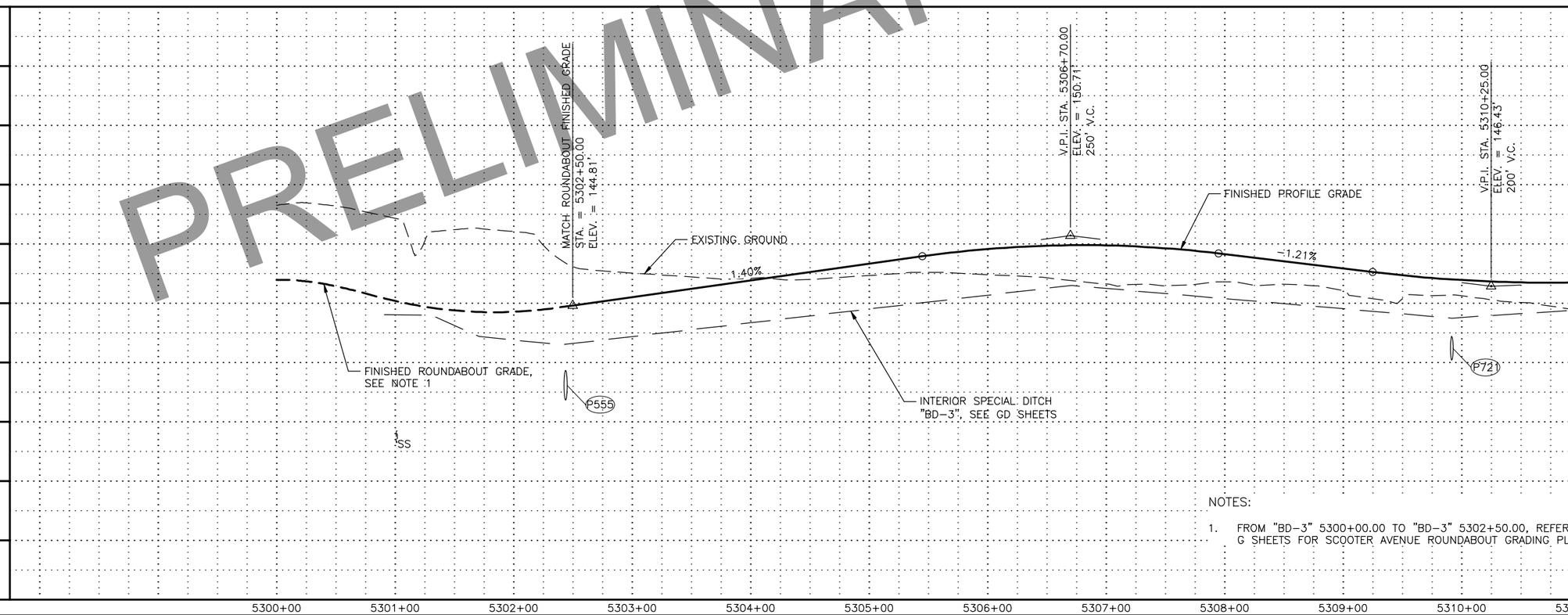
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-2"
PLAN AND PROFILE
5225+00 TO 5238+12





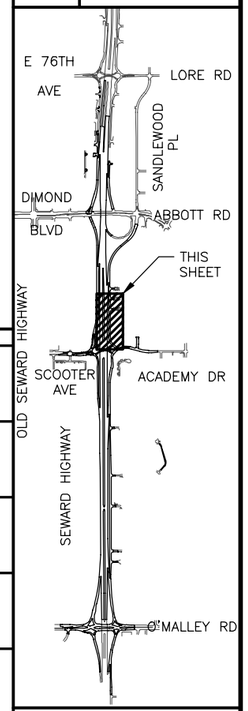
NOTES:

1. FROM "BD-3" 5300+00.00 TO "BD-3" 5302+50.00, REFER TO G SHEETS FOR SCOOTER AVENUE ROUNDABOUT GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F20	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

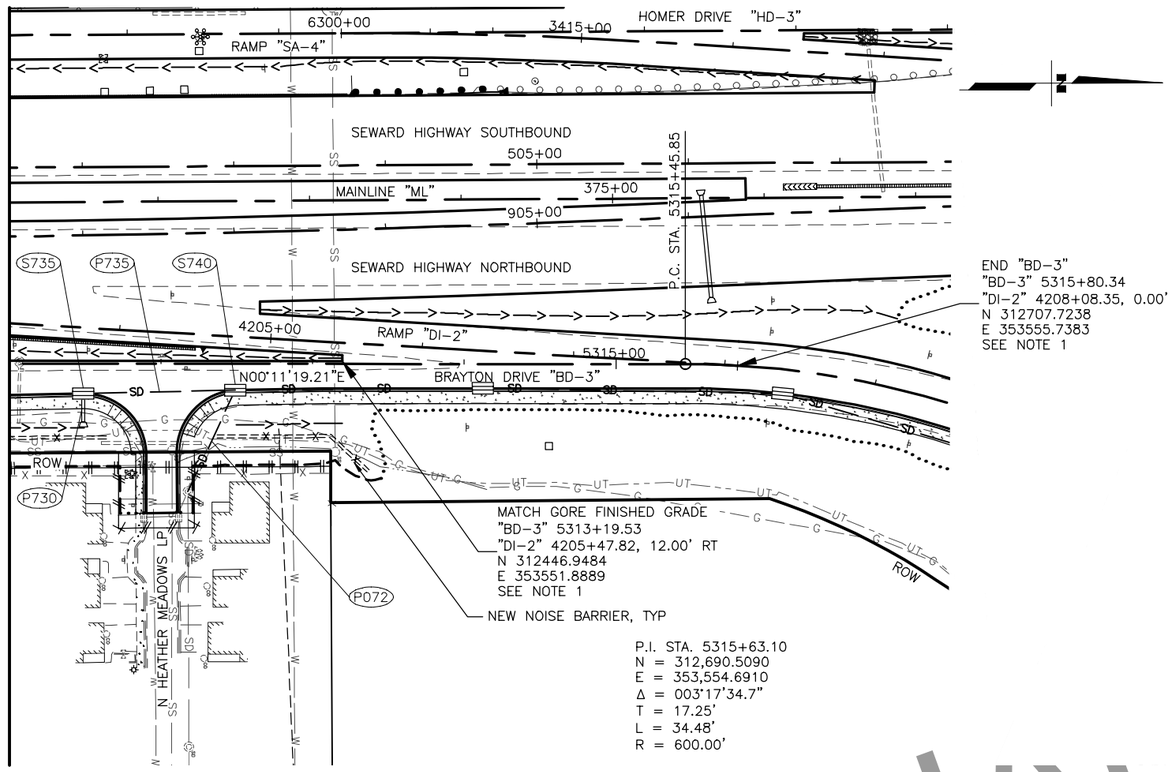
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-3"
PLAN AND PROFILE
5300+00 TO 5311+00

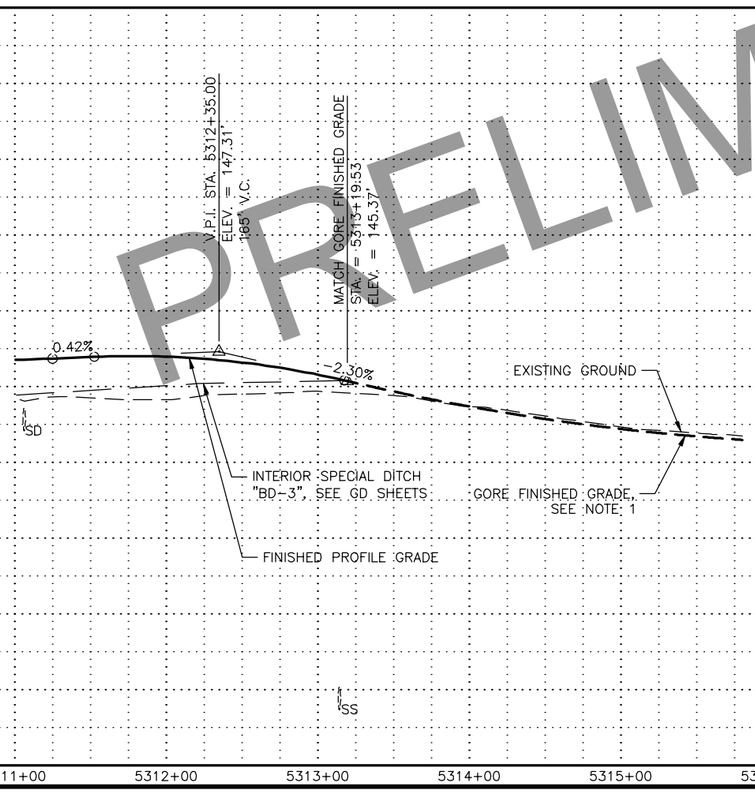
DATE/TIME 4/7/2022 11:18 AM | LAYOUT F20 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F20_PNP.DWG]

MATCH LINE "BD-3" STA 5311+00
SHEET F20



P.I. STA. 5315+63.10
N = 312,690.5090
E = 353,554.6910
Δ = 003°17'34.7"
T = 17.25'
L = 34.48'
R = 600.00'



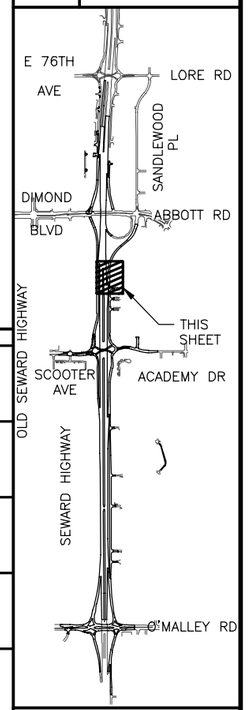
NOTES:

1. FROM "BD-3" 5313+19.53 TO "BD-3" 5315+80.34, REFER TO G SHEETS FOR "BD-3"/"DI-2" GORE GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F21	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

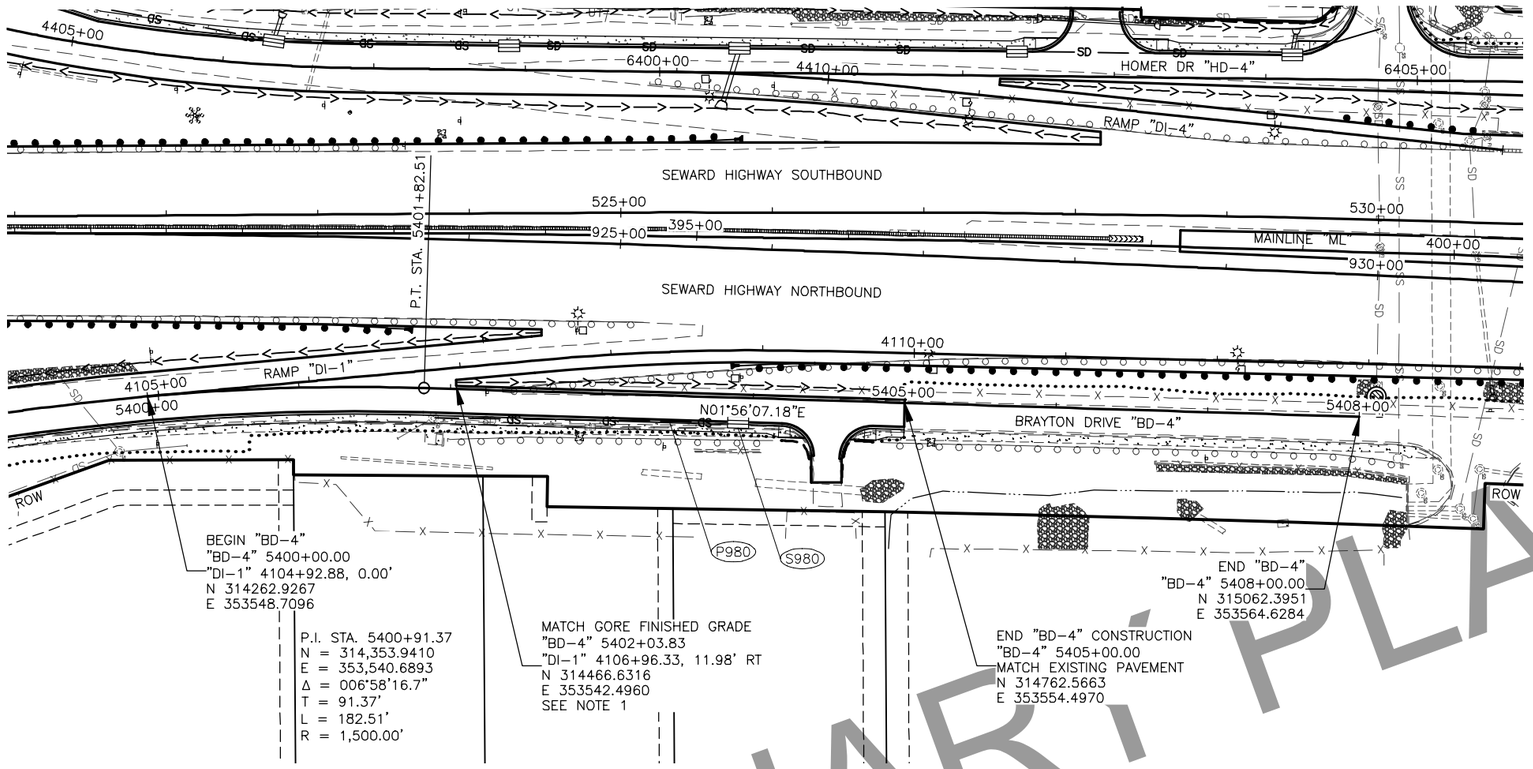
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

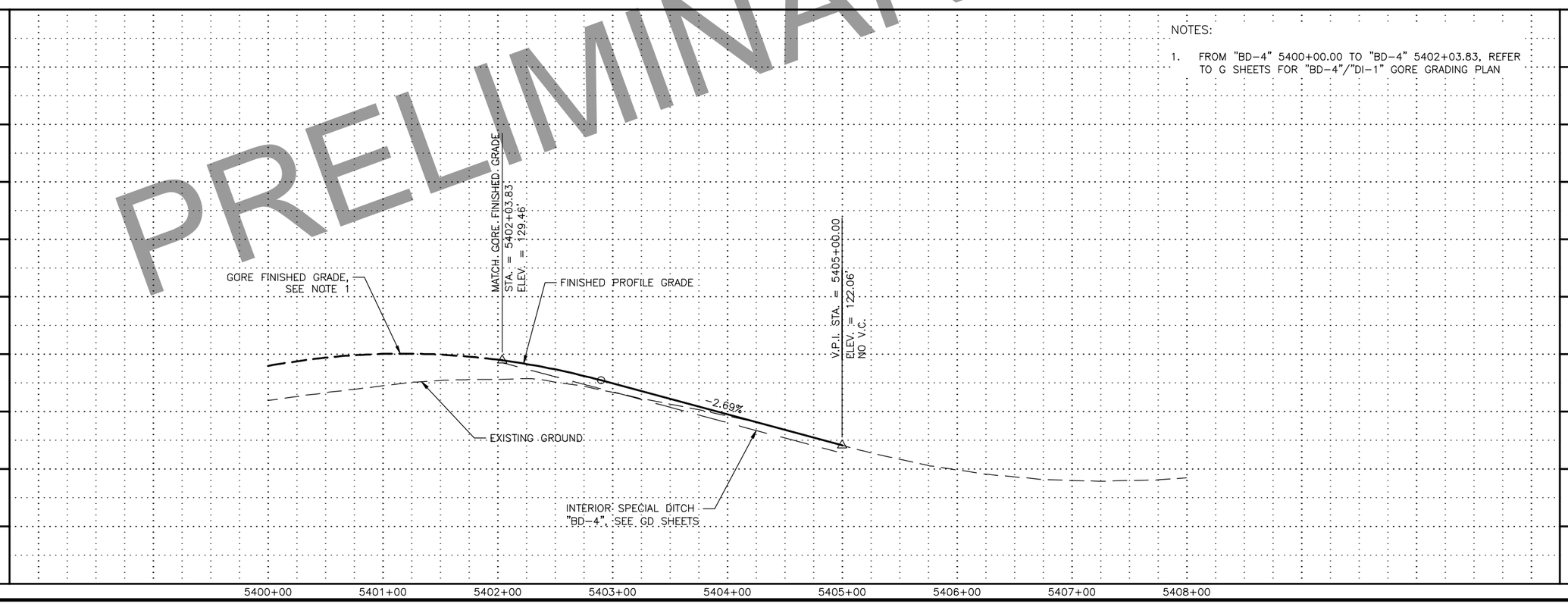
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-3"
PLAN AND PROFILE
5311+00 TO 5315+80

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/7/2022 11:18 AM	F21	JM	MR	RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F21_PNP.DWG



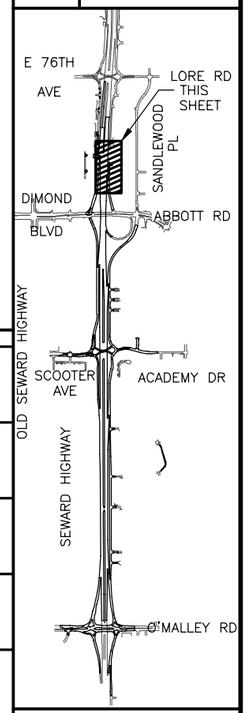


SHEET NO.	TOTAL SHEETS
F22	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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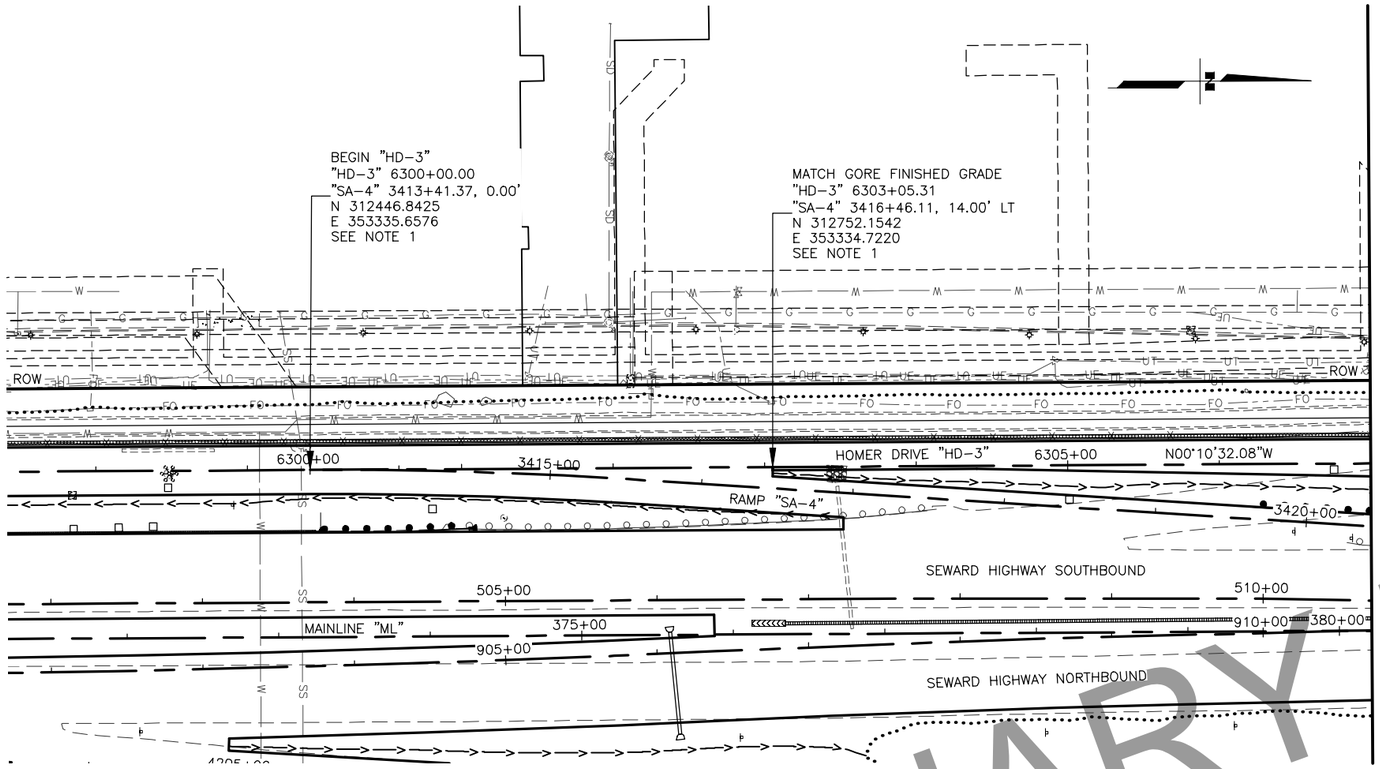
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BRAYTON DRIVE "BD-4" PLAN AND PROFILE 5400+00 TO 5408+00

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876331\00012_F22_PNP.DWG | DATE/TIME | 4/7/2022 11:19 AM | LAYOUT | F22 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

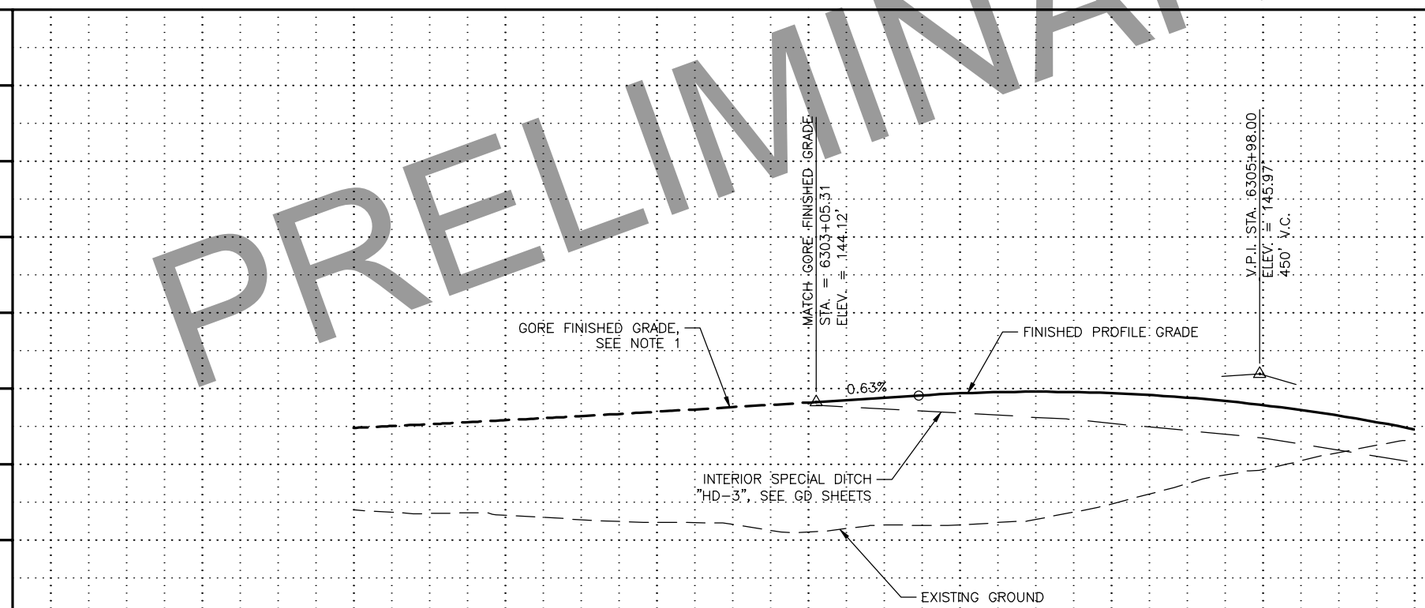


MATCH LINE "HD-3" STA 6307+00
SHEET F24

PRELIMINARY PLANS

NOTES:

1. FROM "HD-3" 6300+00.00 TO "HD-3" 6303+05.31, REFER TO G SHEETS FOR "HD-3"/"SA-4" GORE GRADING PLAN.

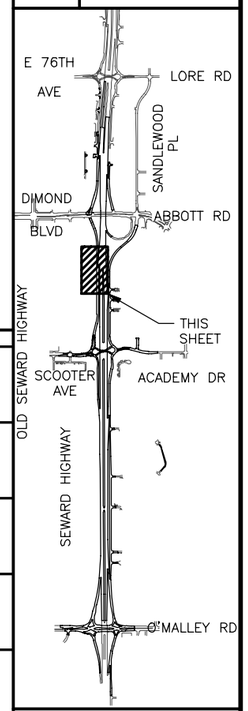


SHEET NO.	TOTAL SHEETS
F23	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

HOMER DRIVE "HD-3"
PLAN AND PROFILE
6300+00 TO 6307+00

DATE/TIME 4/7/2022 11:19 AM | LAYOUT F23 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK053776\D08763311\00012_F23_PNP.DWG

MATCH LINE "HD-3" STA 6307+00
SHEET F23

P.I. STA. 6308+83.15
N = 313,329.9875
E = 353,332.9513
Δ = 020°01'53.7"
T = 176.61'
L = 349.62'
R = 1,000.00'

P.T. STA. 6310+56.76

END "HD-3"
"HD-3" 6313+40.38
N 313762.4617
E 353173.7703

END "HD-3" CONSTRUCTION
"HD-3" 6312+73.80
MATCH EXISTING PAVEMENT
N 313699.9770
E 353196.7691

P850
S850
P851
N20°12'25.79"W
6310+00
4400+00
HOMER DRIVE "HD-3"
DIMOND BLVD.
RAMP "DI-4"
RAMP "DI-5"
ROW
P.C. STA. 6307+06.54
SEWARD HIGHWAY SOUTHBOUND
MAINLINE "ML"
SEWARD HIGHWAY NORTHBOUND
515+00
915+00
385+00

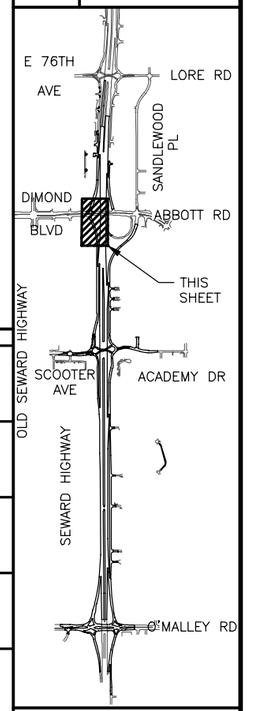
V.P.I. STA. = 6310+00.00
ELEV. = 133.97'
NO V.C.
END PAVEMENT PLANING
STA. = 6312+73.80
ELEV. = 131.30'
-2.99%
FINISHED PROFILE GRADE
EXISTING GROUND
PAVEMENT PLANING
INTERIOR SPECIAL DITCH
"HD-3", SEE GD SHEETS
SD
P851

150
140
130
120
110
6307+00
6308+00
6309+00
6310+00
6311+00
6312+00
6313+00
6314+00

SHEET NO.	TOTAL SHEETS
F24	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

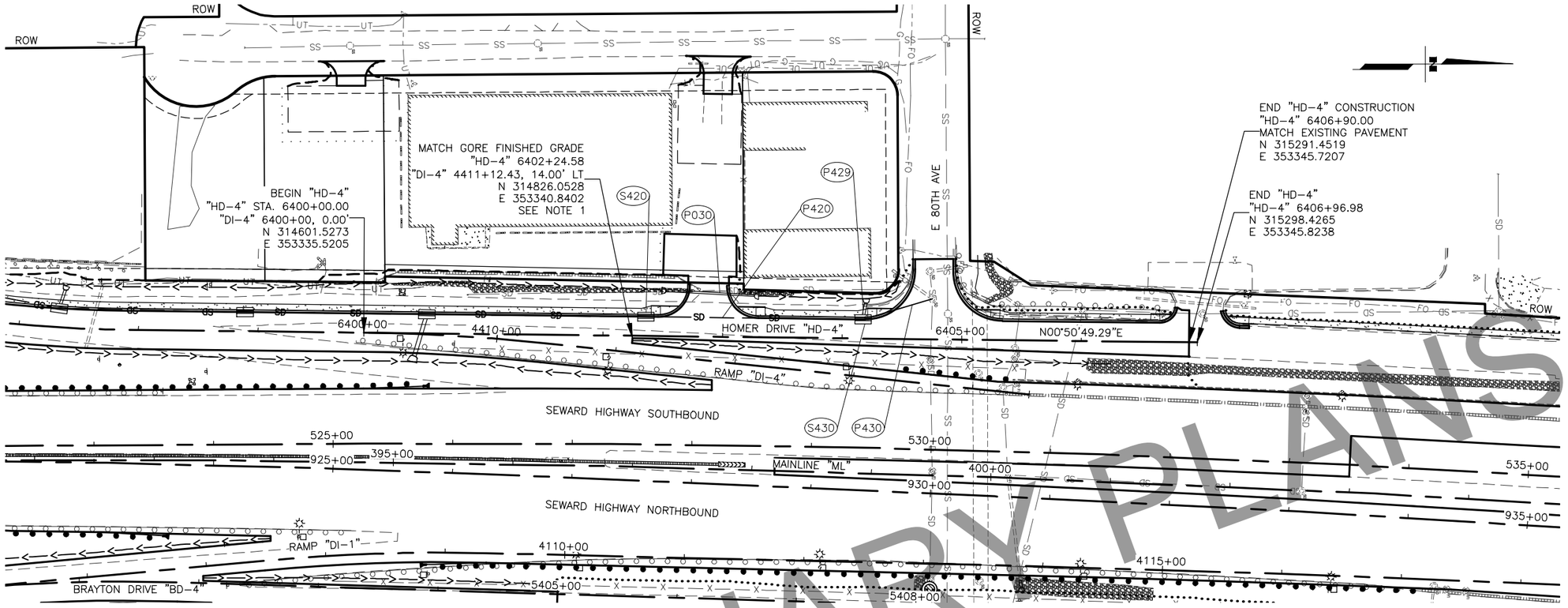
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

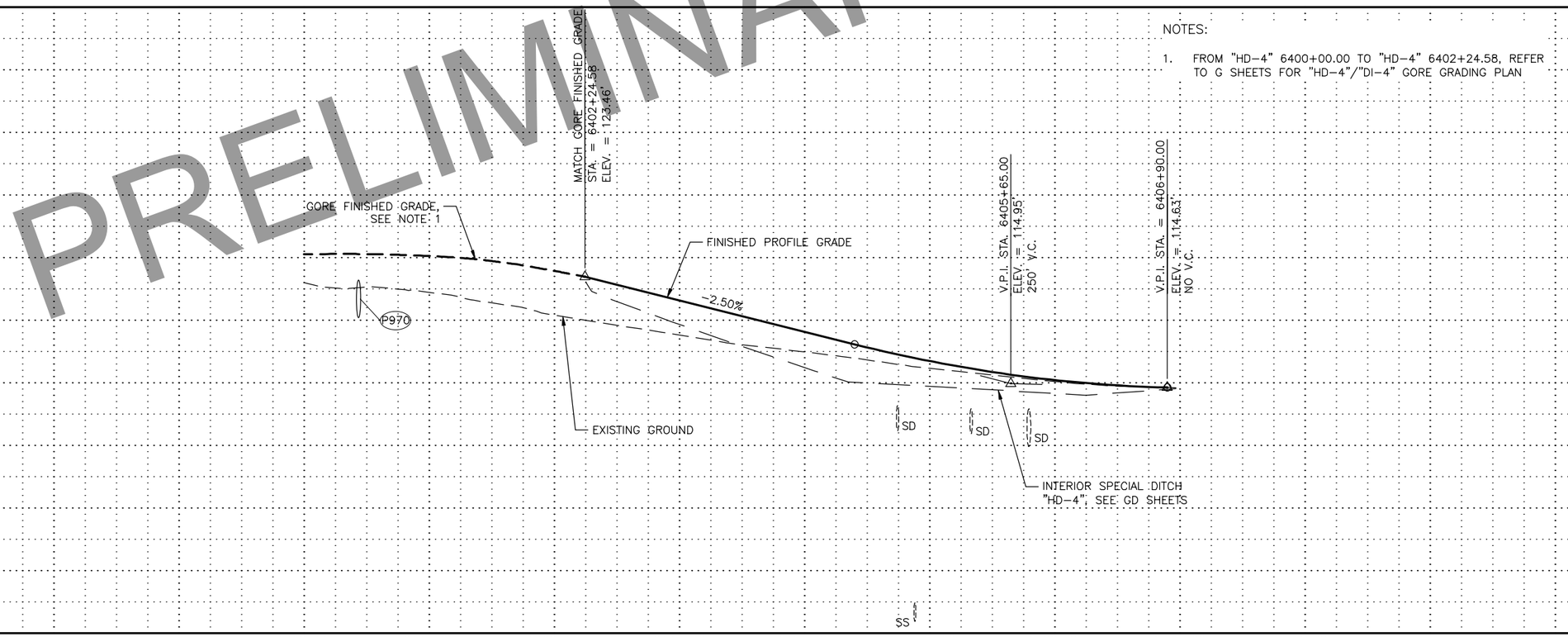
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

HOMER DRIVE "HD-3"
PLAN AND PROFILE
6307+00 TO 6313+40

DATE/TIME 4/7/2022 11:19 AM | LAYOUT F24 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RC0537776\D08776331\00012_F24_PNP.DWG





SHEET NO.	TOTAL SHEETS
F25	F52
STATE	YEAR
ALASKA	2022

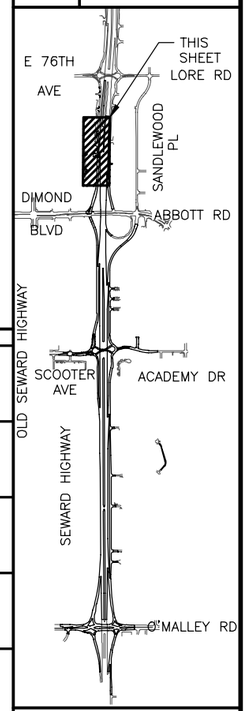
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

HOMER DRIVE "HD-4"
PLAN AND PROFILE
6400+00 TO 6406+97

DATE/TIME 4/7/2022 11:19 AM | LAYOUT F25 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F25_PNP.DWG

BEGIN "OM–1"
"OM–1" 2100+00.00
N 305881.4921
E 353471.3821

P.I. STA. 2100+47.27
N = 305,880.3790
E = 353,518.6440
Δ = 006°53'02.3"
T = 47.27'
L = 94.44'
R = 786.00'

P.I. STA. 2101+57.77
N = 305,891.0473
E = 353,628.7380
Δ = 070°52'23.8"
T = 63.33'
L = 110.09'
R = 89.00'

P.I. STA. 2102+55.70
N = 306,002.3521
E = 353,655.6489
Δ = 024°22'13.3"
T = 51.18'
L = 100.81'
R = 237.00'

P.I. STA. 2105+36.64
N = 306,279.8532
E = 353,602.8209
Δ = 005°55'16.0"
T = 191.35'
L = 382.37'
R = 3,700.00'

MATCHED DDI FINISHED GRADE
"OM–1" 2103+05.33
N 306052.6263
E 353646.0781

MATCH LINE "OM–1" STA 2112+00
SHEET F27

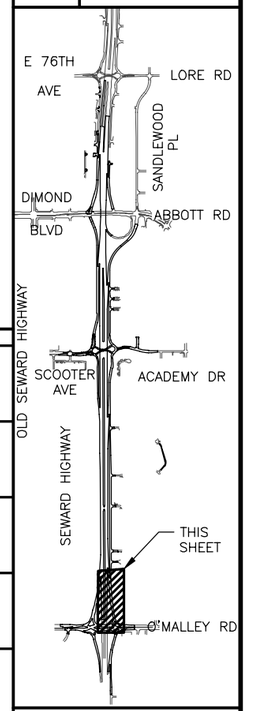
NOTES:

1. FROM "OM–1" 2100+00.00 TO "OM–1" 2103+05.33, REFER TO G SHEETS FOR O'MALLEY ROAD DDI GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F26	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

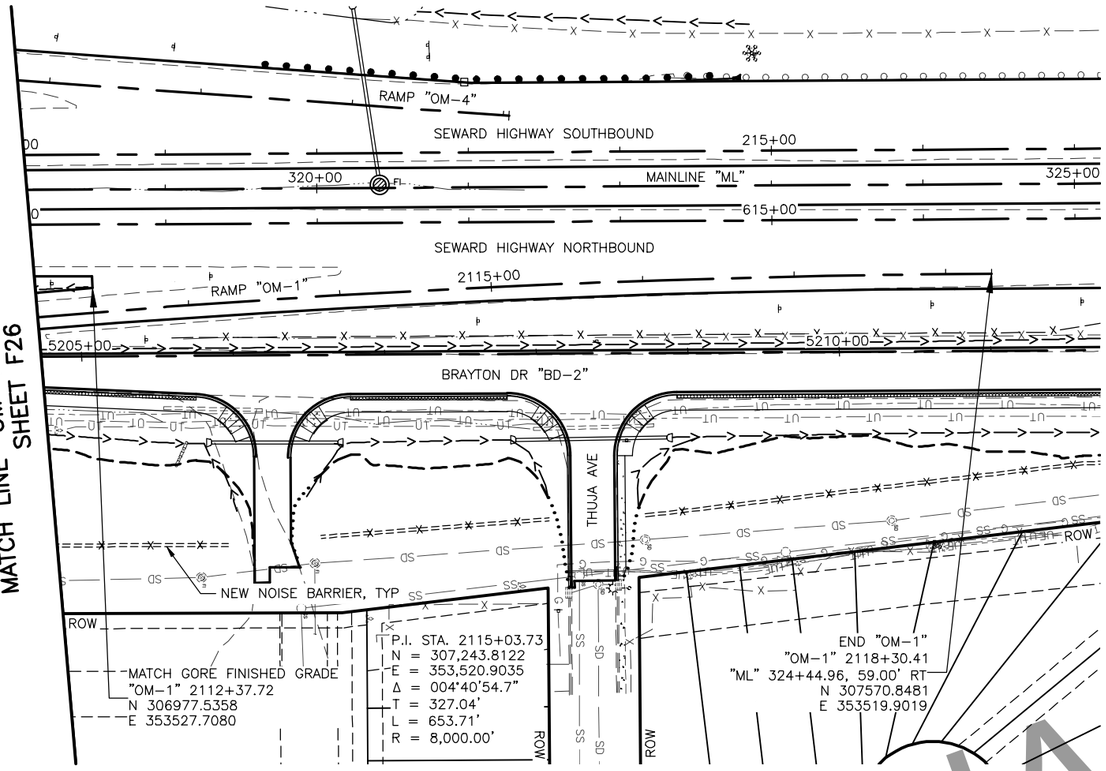
RAMP "OM–1"
PLAN AND PROFILE
2100+00 TO 2112+00

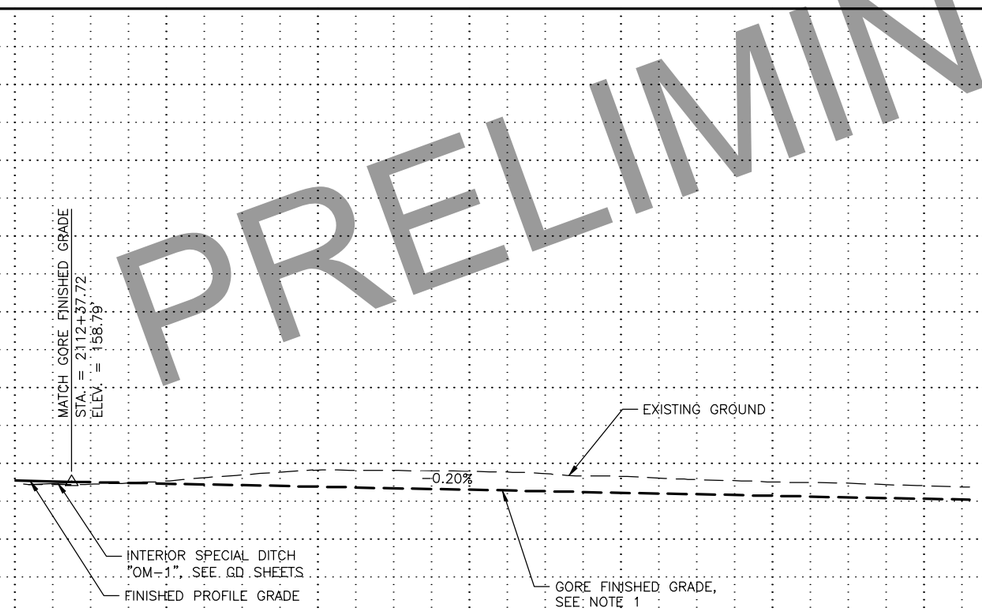
FINISHED DDI GRADE, SEE NOTE 1
MATCH DDI FINISHED GRADE STA. 2103+05.33 ELEV. = 168.09'
FINISHED PROFILE GRADE
EXISTING GROUND
INTERIOR SPECIAL DITCH "OM–1", SEE GD SHEETS
–1.37%
V.P.I. STA. 2109+40.00
ELEV. = 159.38'
400' V.C.
P211
SD

180 170 160 150 140

2100+00 2101+00 2102+00 2103+00 2104+00 2105+00 2106+00 2107+00 2108+00 2109+00 2110+00 2111+00 2112+00

DATE/TIME 4/7/2022 11:19 AM | LAYOUT F26 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RC0537776\D08776331\00012_F26_PNP.DWG





NOTES:

1. FROM "OM-1" 2112+37.72 TO "BD-3" 2118+30.41, REFER TO G SHEETS FOR "OM-1"/"ML" FORE GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F27	F52
STATE	YEAR
ALASKA	2022

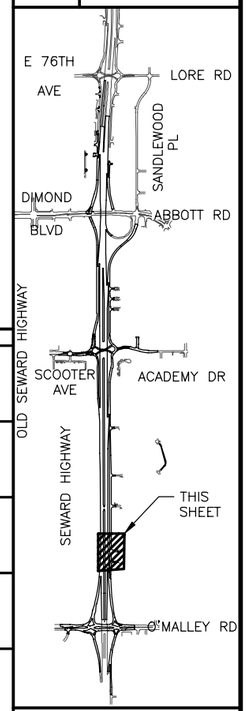
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

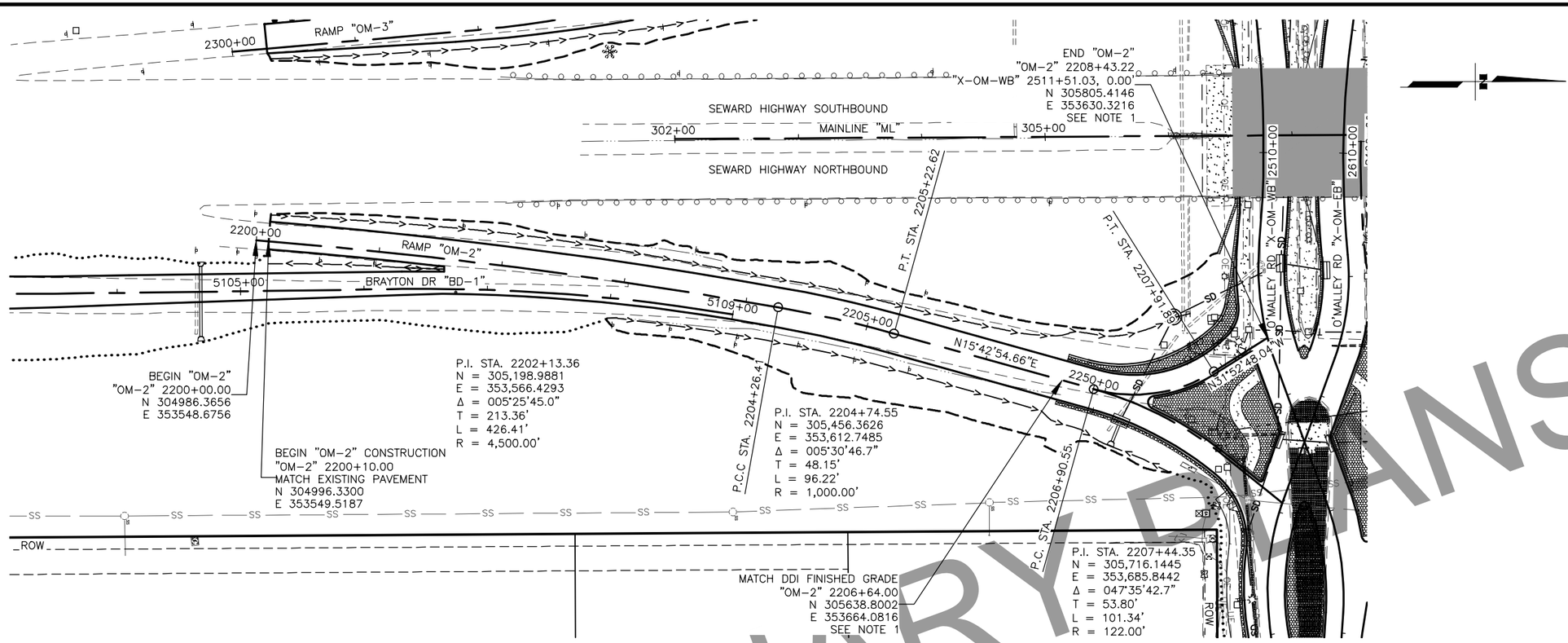
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

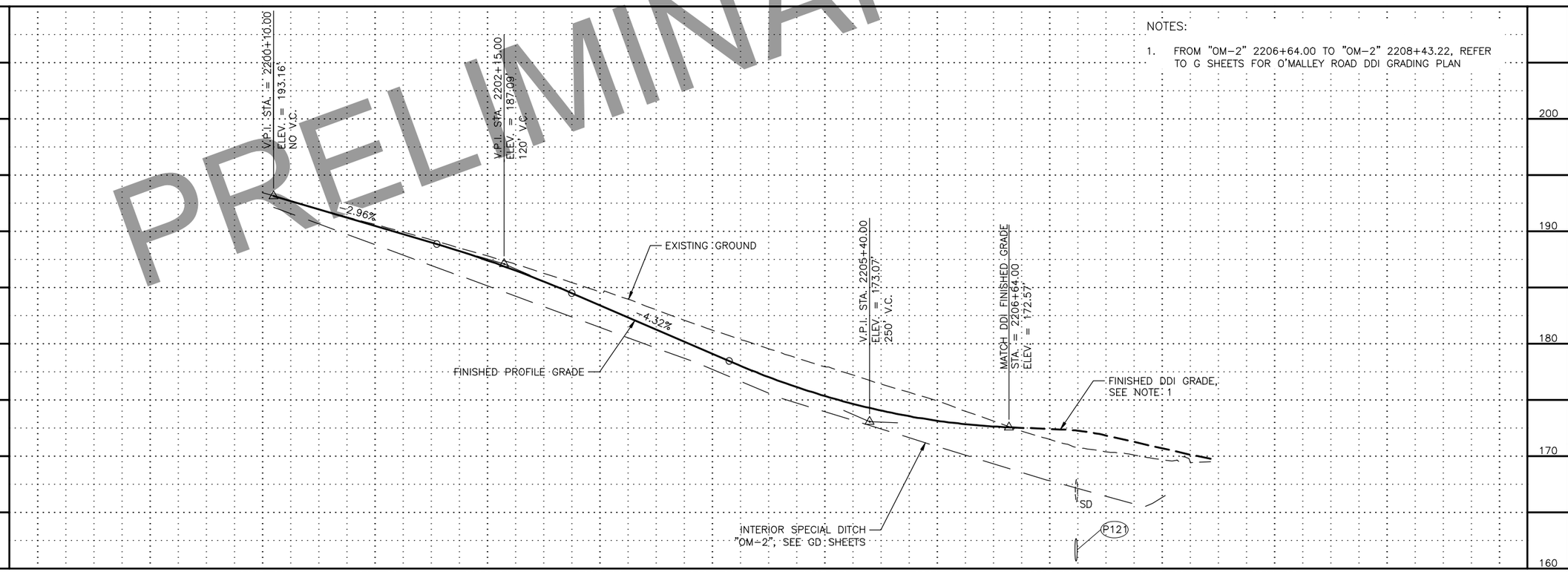
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "OM-1"
PLAN AND PROFILE
2112+00 TO 2118+31

DATE/TIME 4/7/2022 11:19 AM | LAYOUT F27 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763331\00012_F27_PNP.DWG]



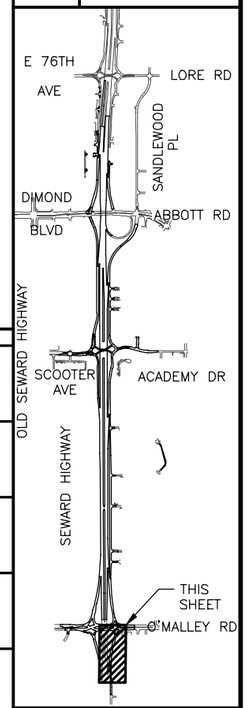


SHEET NO.	TOTAL SHEETS
F28	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
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JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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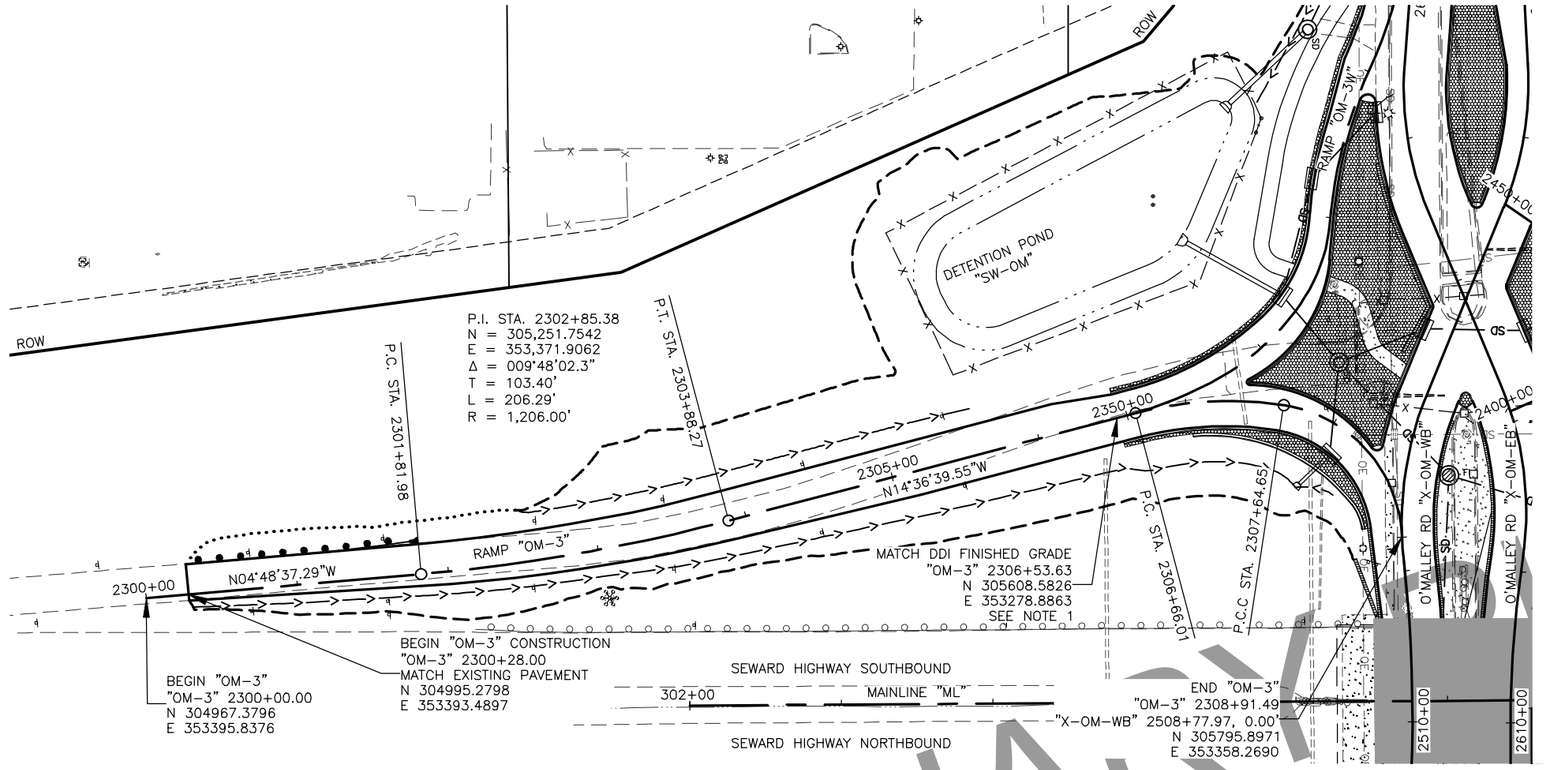
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "OM-2"
PLAN AND PROFILE
2200+00 TO 2208+43

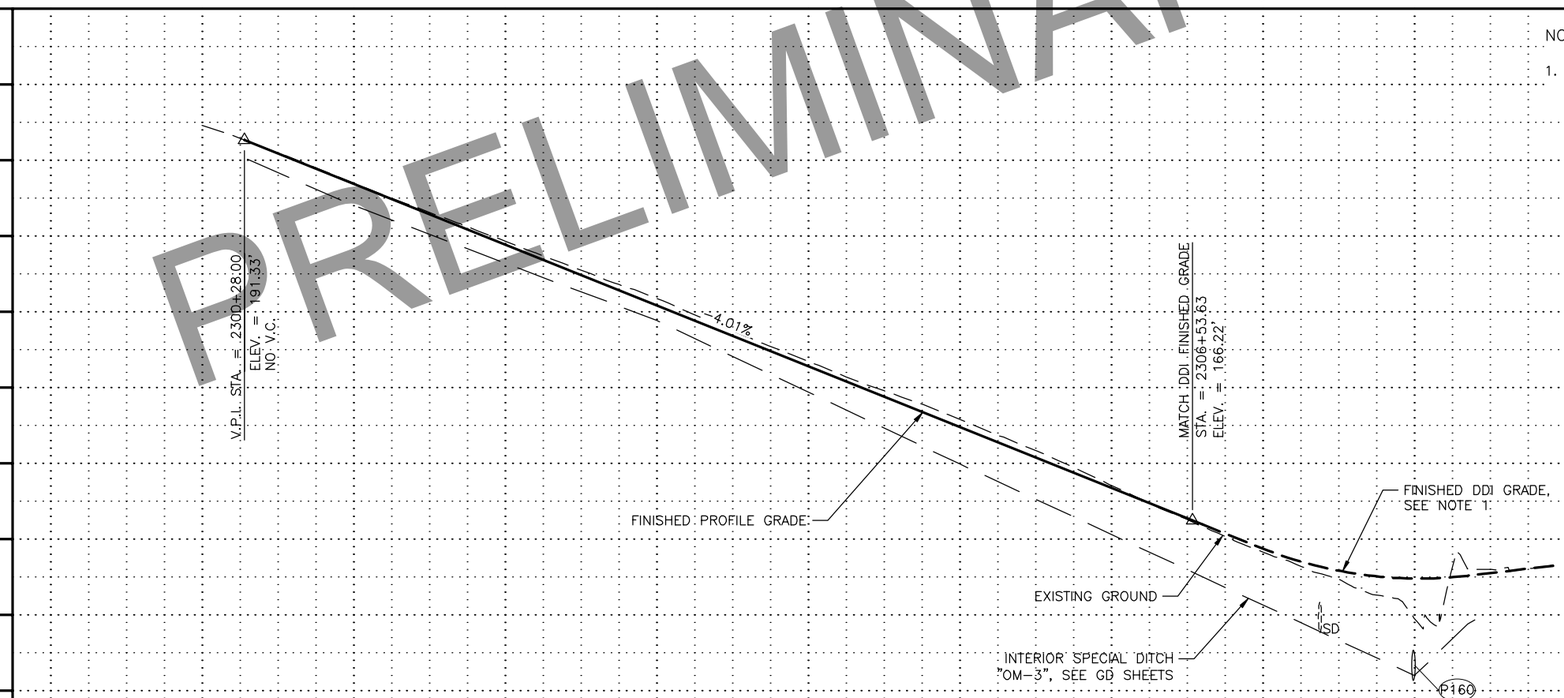
DATE/TIME | 4/7/2022 11:20 AM | LAYOUT | F28 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F28_PNP.DWG



NOTES:

1. FROM "OM-3" 2306+53.63 TO "OM-3" 2308+91.49, REFER TO G SHEETS FOR O'MALLEY ROAD DDI GRADING PLAN.



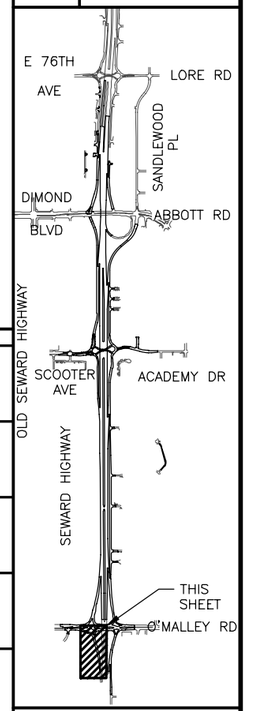
SHEET NO.	TOTAL SHEETS
F29	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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AECC628

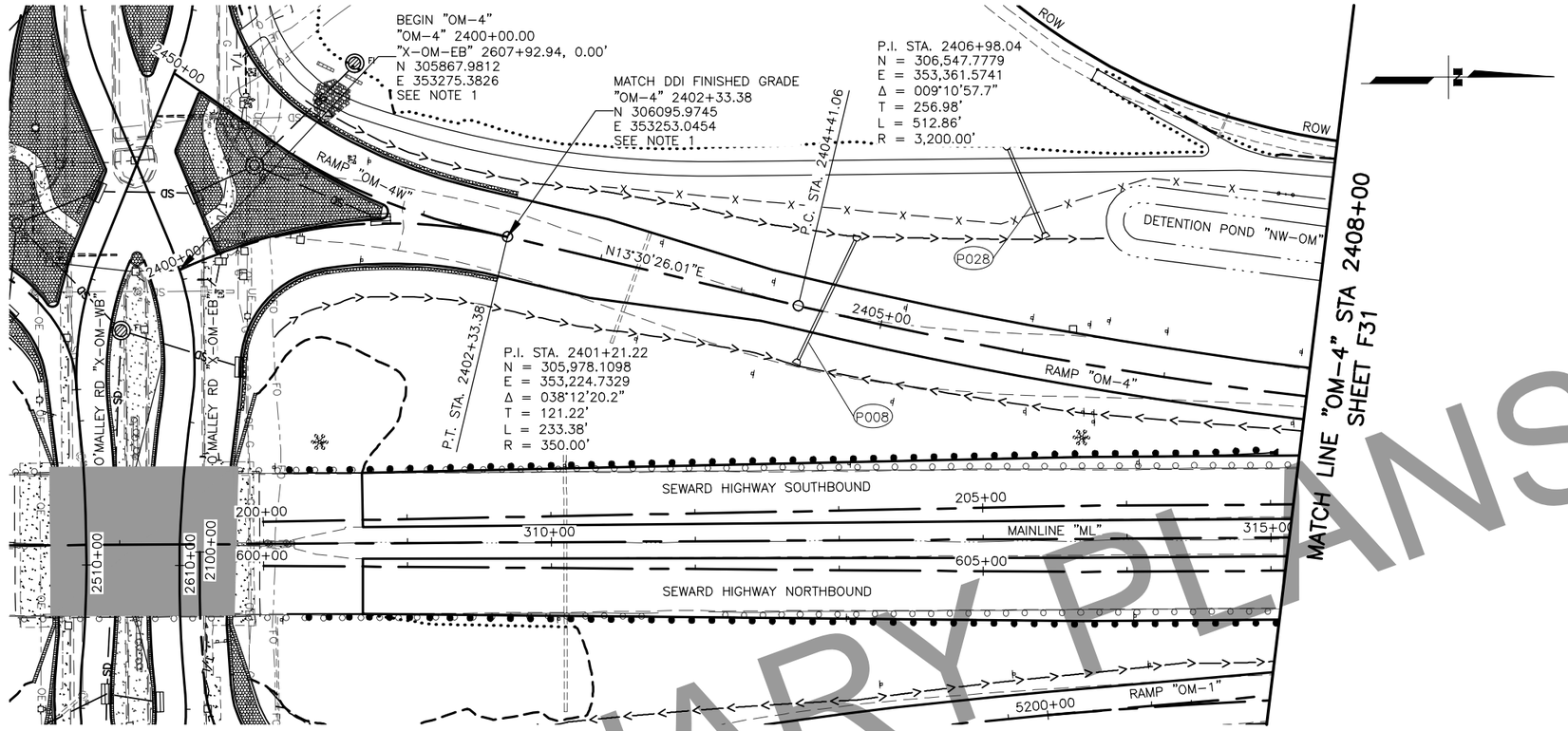
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

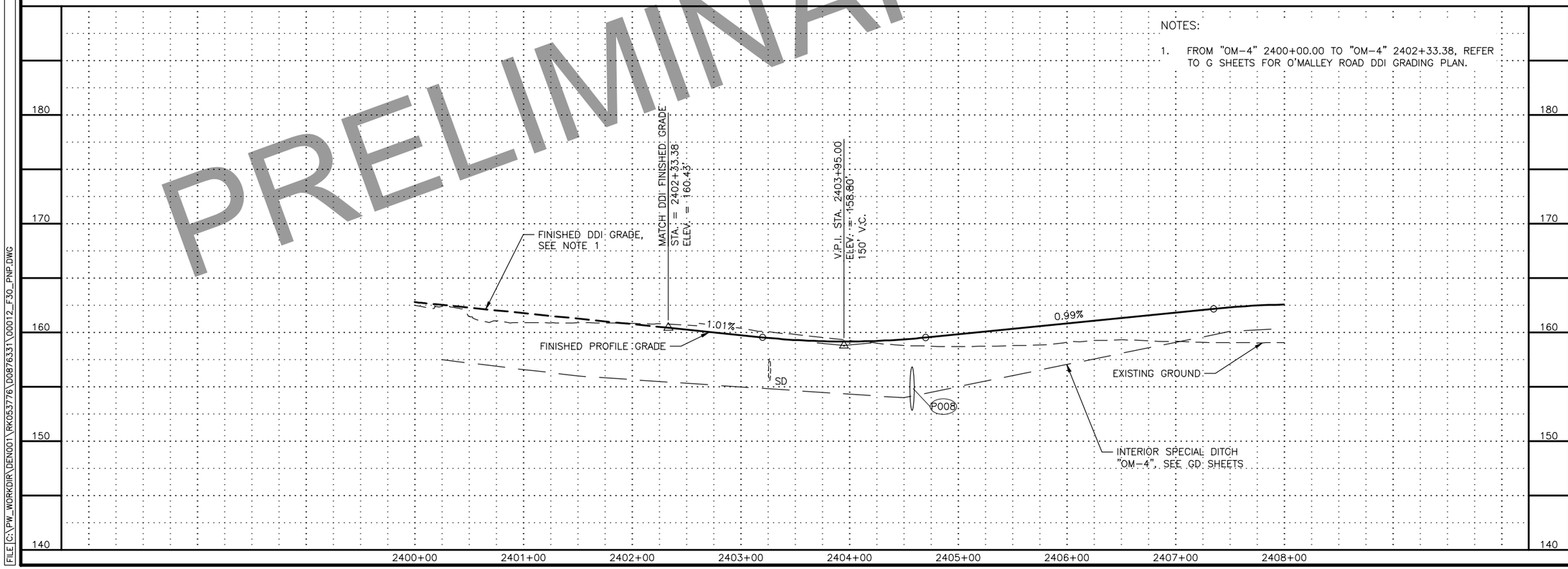
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "OM-3"
PLAN AND PROFILE
2300+00 TO 2308+91

DATE/TIME | 4/7/2022 11:20 AM | LAYOUT | F29 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763331\00012_F29_PNP.DWG]



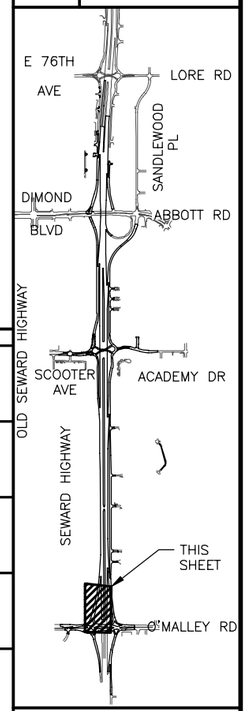


SHEET NO.	TOTAL SHEETS
F30	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

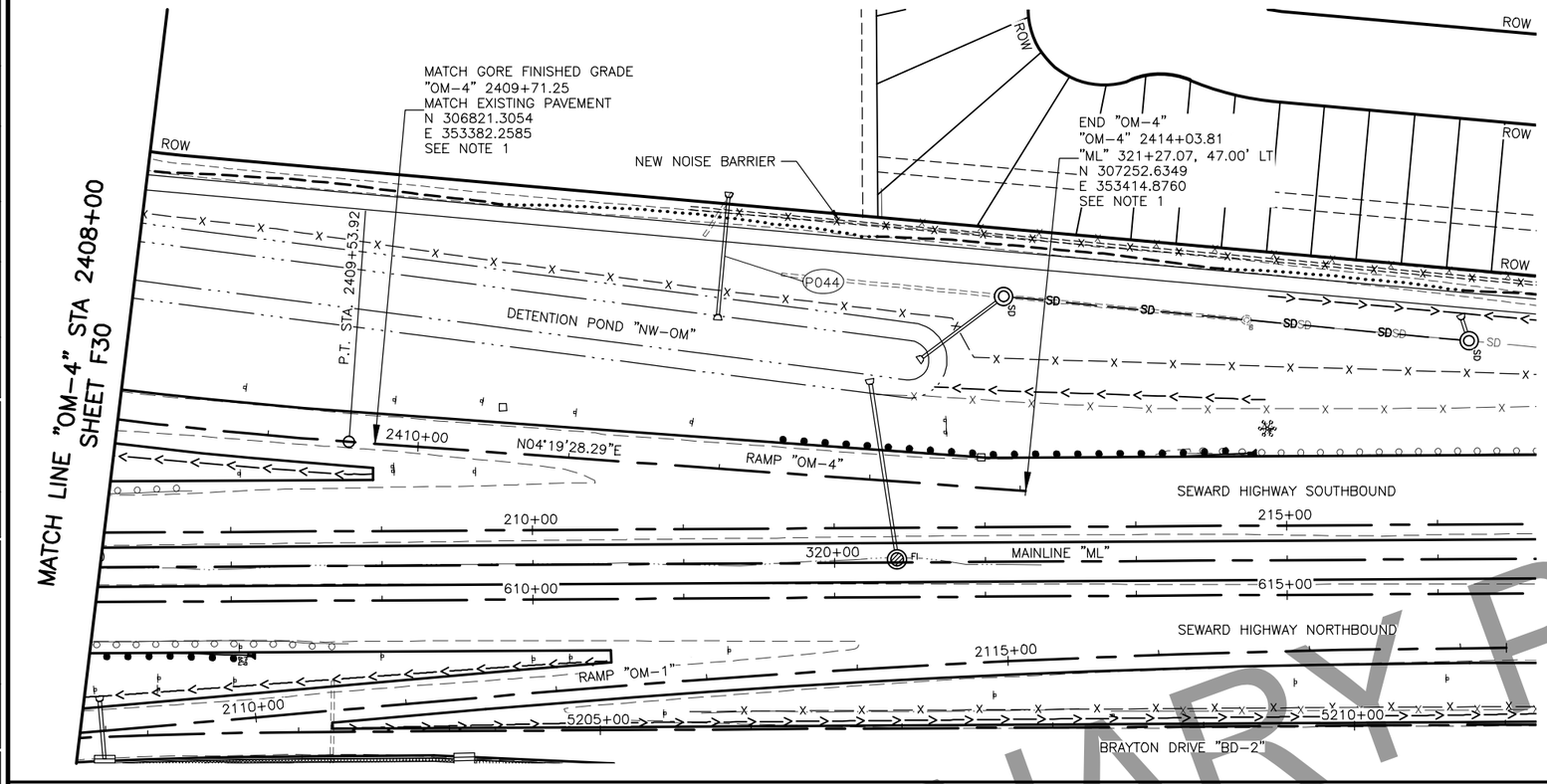
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "OM-4"
PLAN AND PROFILE
2400+00 TO 2408+00

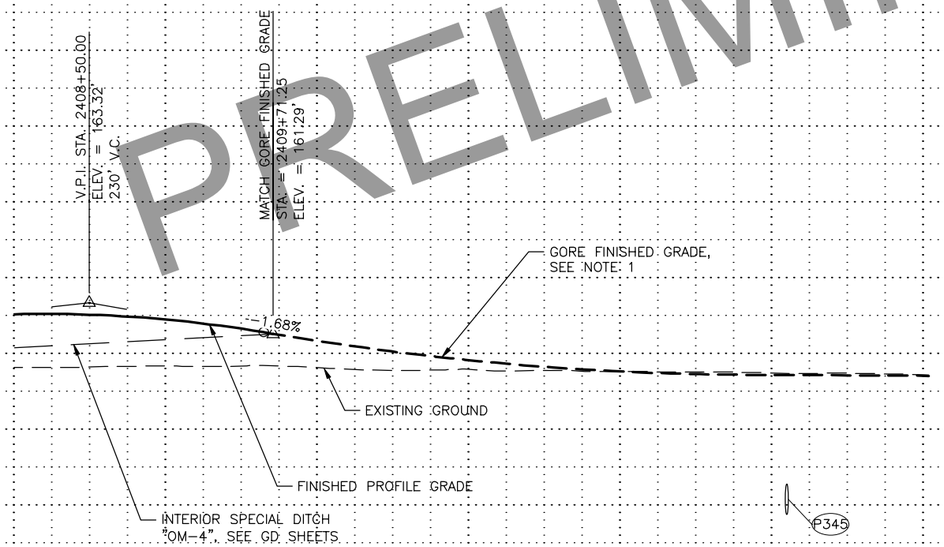
DATE/TIME | 4/7/2022 11:20 AM | LAYOUT | F30 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F30_PNP.DWG]



NOTES:

1. FROM "OM-4" 2409+71.25 TO "OM-4" 2414+03.81, REFER TO G SHEETS FOR "OM-4"/"ML" GORE GRADING PLAN.



SHEET NO.	TOTAL SHEETS
F31	F52
STATE	YEAR
ALASKA	2022

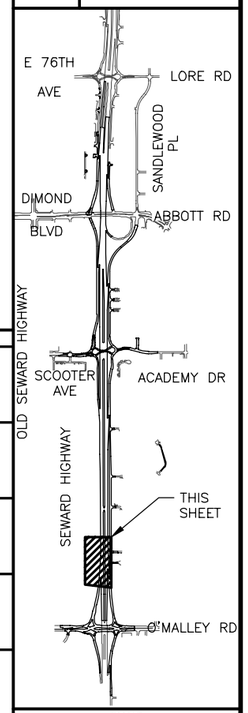
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

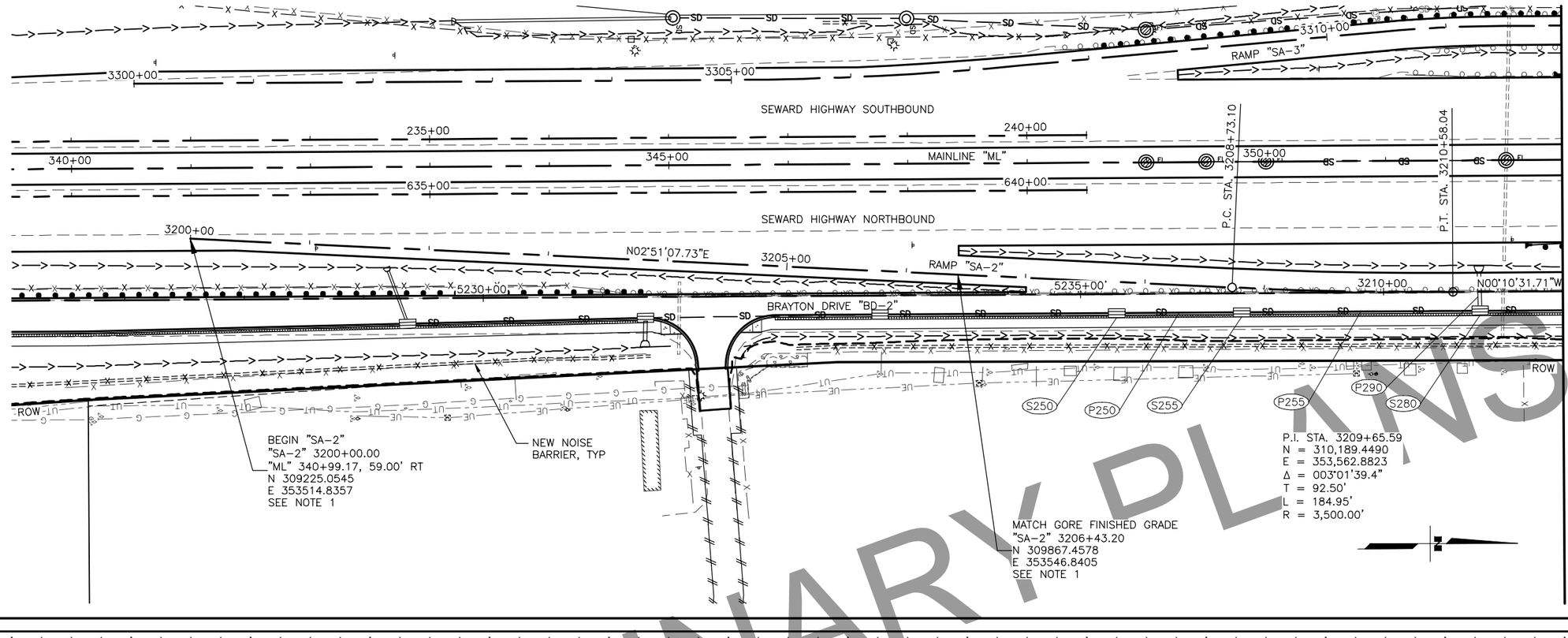
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "OM-4"
PLAN AND PROFILE
2408+00 TO 2414+04

DATE/TIME 4/7/2022 11:20 AM | LAYOUT F31 | DESIGNED JM | CHECKED MR | DRAFTED RM

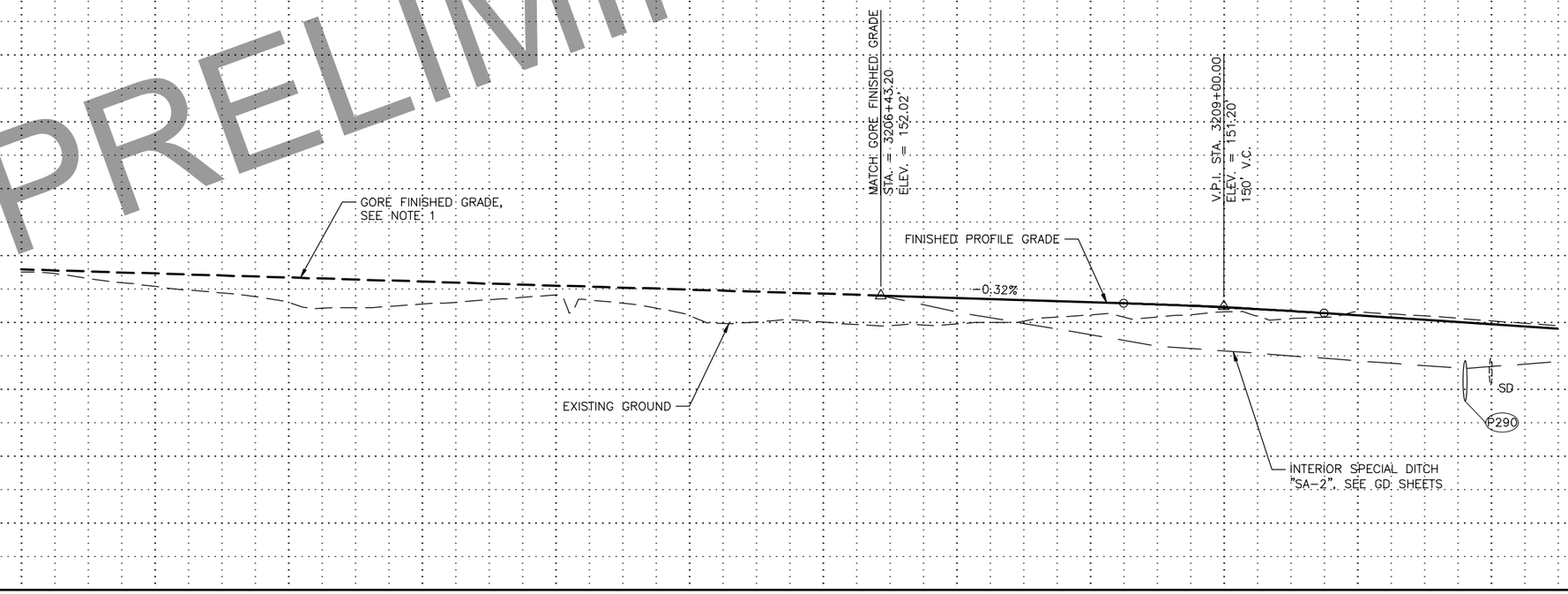
FILE C:_PW_WORKDIR\DEN001\RK053776\D08763331\000122_F31_PNP.DWG



MATCH LINE "SA-2" STA 3211+50
SHEET F33

NOTES:

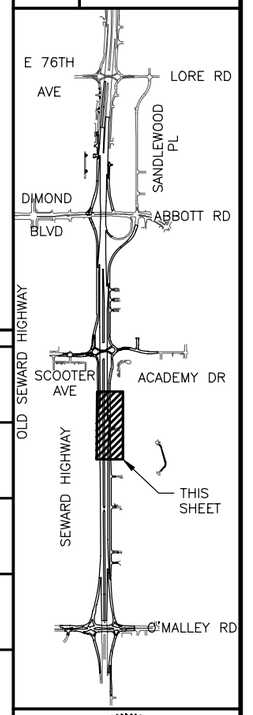
1. FROM "SA-2" 3200+00.00 TO "BD-3" 3206+43.20, REFER TO G SHEETS FOR "SA-2"/"ML" GORE GRADING PLAN.



SHEET NO.	TOTAL SHEETS
F32	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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AECC628

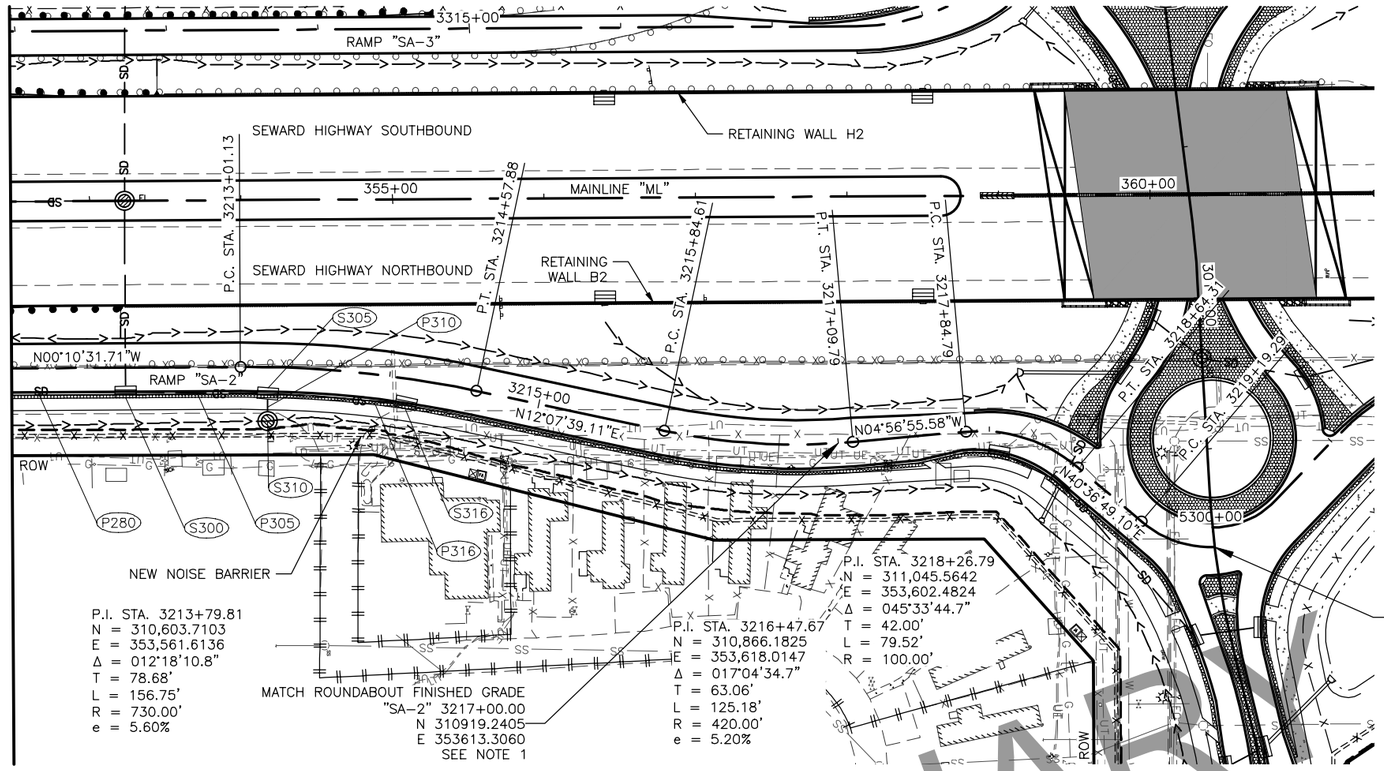
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

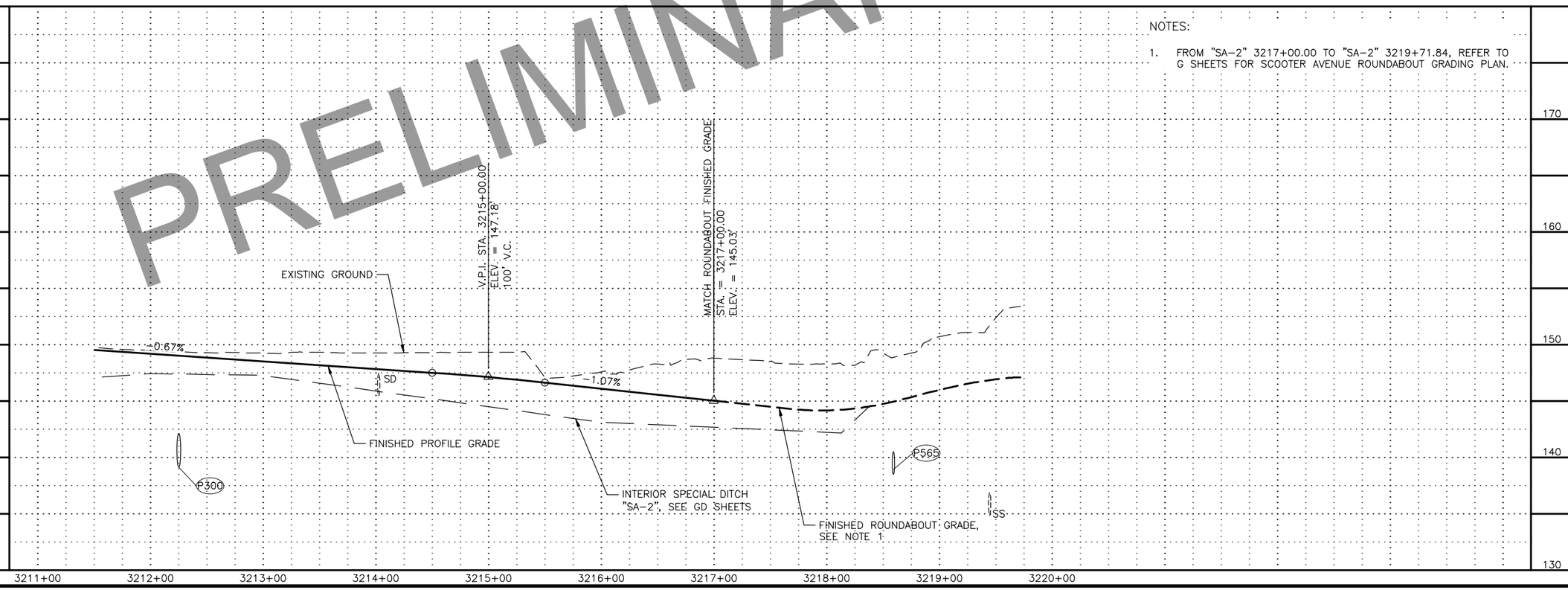
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "SA-2"
PLAN AND PROFILE
3200+00 TO 3211+50

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F32_PNP.DWG
DATE/TIME 4/7/2022 11:21 AM
LAYOUT F32
DESIGNED JM
CHECKED MR
DRAFTED RM

MATCH LINE "SA-2" STA 3211+50
SHEET F32





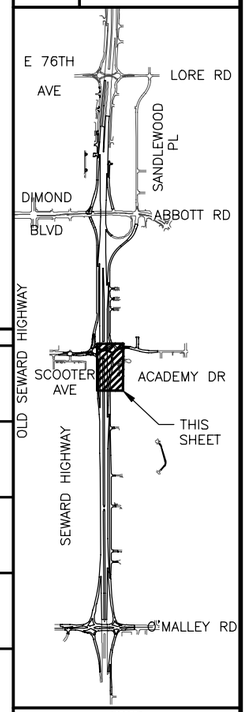
NOTES:

1. FROM "SA-2" 3217+00.00 TO "SA-2" 3219+71.84, REFER TO G SHEETS FOR SCOOTER AVENUE ROUNDABOUT GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F33	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
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AECC628

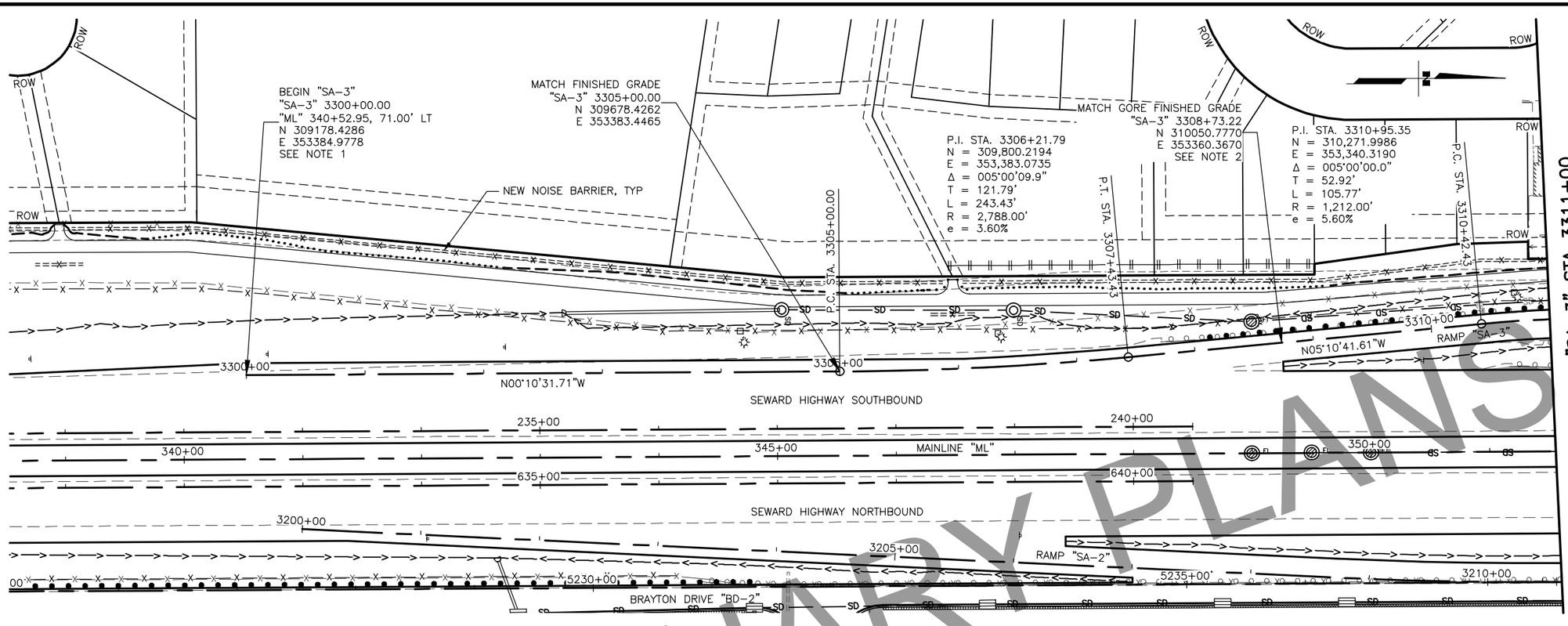
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

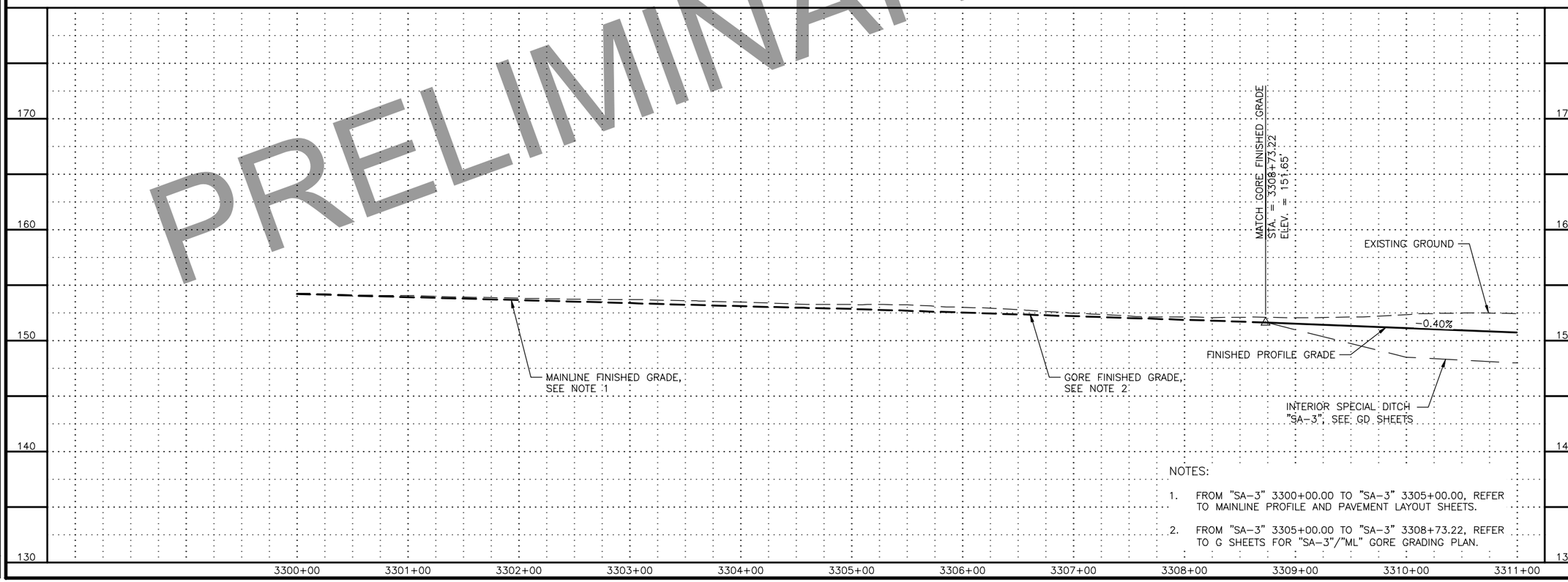
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "SA-2"
PLAN AND PROFILE
3211+50 TO 3219+72

DATE/TIME 4/7/2022 11:21 AM | LAYOUT F33 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RC0537776\D08763331\00012_F33_PNP.DWG



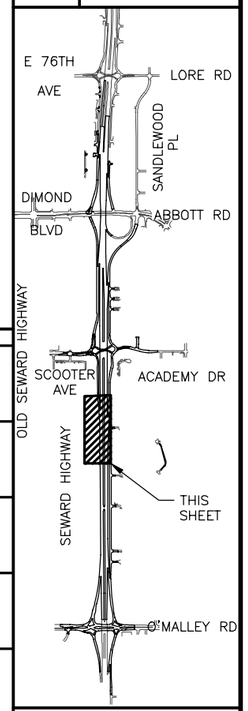


NOTES:

1. FROM "SA-3" 3300+00.00 TO "SA-3" 3305+00.00, REFER TO MAINLINE PROFILE AND PAVEMENT LAYOUT SHEETS.
2. FROM "SA-3" 3305+00.00 TO "SA-3" 3308+73.22, REFER TO G SHEETS FOR "SA-3"/"ML" GORE GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F34	F52
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "SA-3" PLAN AND PROFILE 3300+00 TO 3311+00

DATE/TIME 4/7/2022 11:21 AM | LAYOUT F34 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE [C:\PW_WORKDIR\DEN001\RC0537776\D08763311\00012_F34_PNP.DWG]

DATE/TIME 4/7/2022 11:21 AM | LAYOUT F35 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK053776\D08763331\00012_F35_PNP.DWG

MATCH LINE "SA-3" STA 3311+00
SHEET F34

ROW
P.T. STA. 3311+48.20
NEW NOISE BARRIER
DETENTION POND "SW-SA"
MATCH ROUNDABOUT FINISHED GRADE
"SA-3" 3316+00.00
N 310776.7118
E 353338.7490
SEE NOTE 1
P024
P.C. STA. 3319+47.7
P.T. STA. 3318+71.89
SCOOTER AVE
"SA-3"
"X-SA"
3400+00
N44°37'44.36"W
3315+00
RAMP "SA-3"
N00°10'41.61"W
SEWARD HIGHWAY SOUTHBOUND
RETAINING WALL H2
P.C. STA. 3317+55.52
MAINLINE "ML"
355+00
360+00
SEWARD HIGHWAY NORTHBOUND
RETAINING WALL B2
ACADEMY DR "Y-SA"
3015+00.00
RAMP "SA-2"
3215+00

END "SA-3"
"SA-3" 3319+85.19
"X-SA" 3012+04.42, 0.62' LT
N 311123.7380
E 353224.4174

P.I. STA. 3319+67.00
N = 311,104.8251
E = 353,228.2069
Δ = 033°17'55.9"
T = 19.29'
L = 37.49'
R = 64.50'

P.I. STA. 3318+16.81
N = 310,993.5252
E = 353,338.0746
Δ = 044°27'02.7"
T = 61.29'
L = 116.37'
R = 150.00'
e = 3.60%

NOTES:

1. FROM "SA-3" 3316+00.00 TO "SA-3" 3319+85.19, REFER TO G SHEETS FOR SCOOTER AVENUE ROUNDABOUT GRADING PLAN

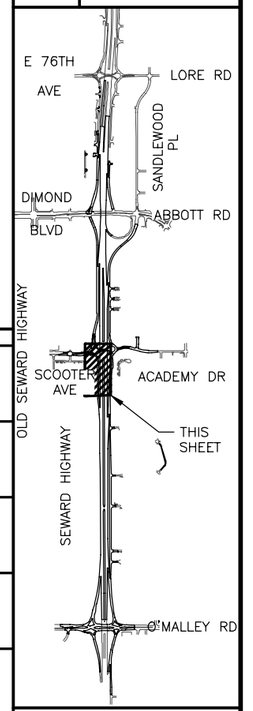
V.P.I. STA. 3312+40.00
ELEV. = 150.18'
250' V.C.
MATCH ROUNDABOUT FINISHED GRADE
STA. = 3316+00.00
ELEV. = 143.33'
EXISTING GROUND
FINISHED PROFILE GRADE
1.90%
SD
P320
INTERIOR SPECIAL DITCH
"SA-3", SEE GD SHEETS
P094
FINISHED ROUNDABOUT GRADE, SEE NOTE 1

170
160
150
140
130
3311+00
3312+00
3313+00
3314+00
3315+00
3316+00
3317+00
3318+00
3319+00
3320+00

SHEET NO.	TOTAL SHEETS
F35	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



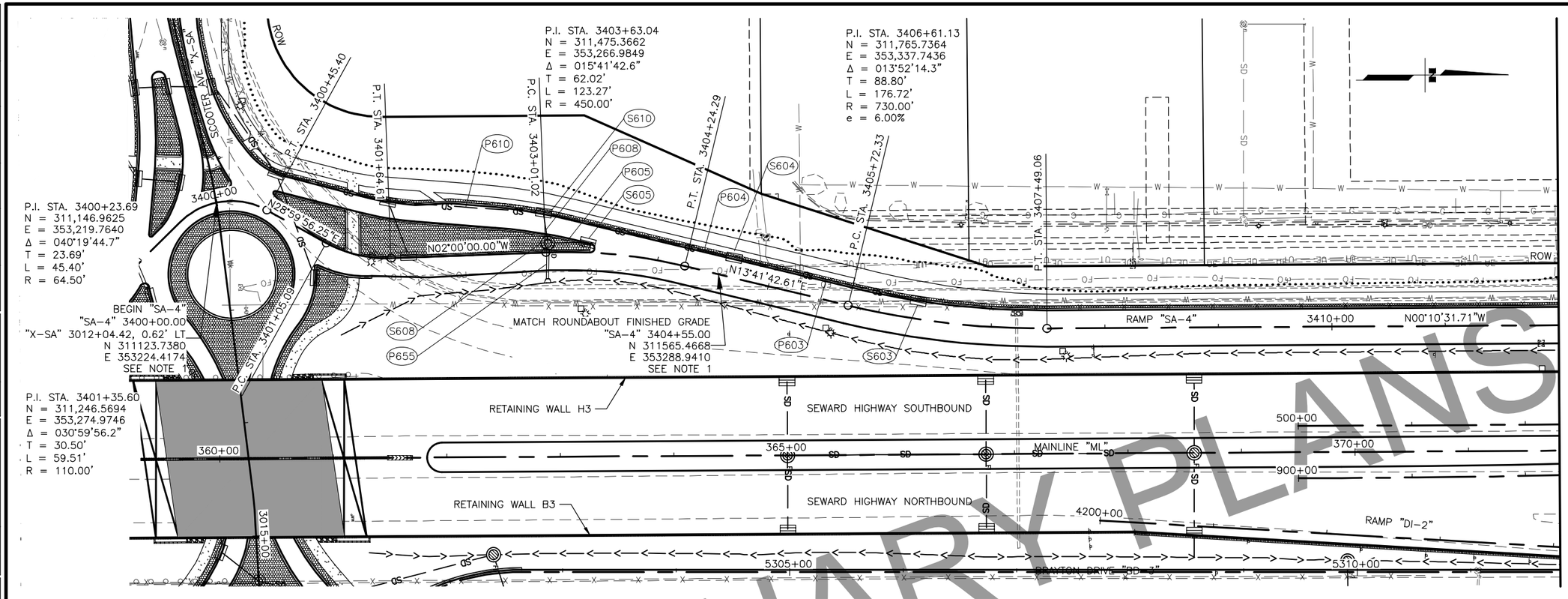
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

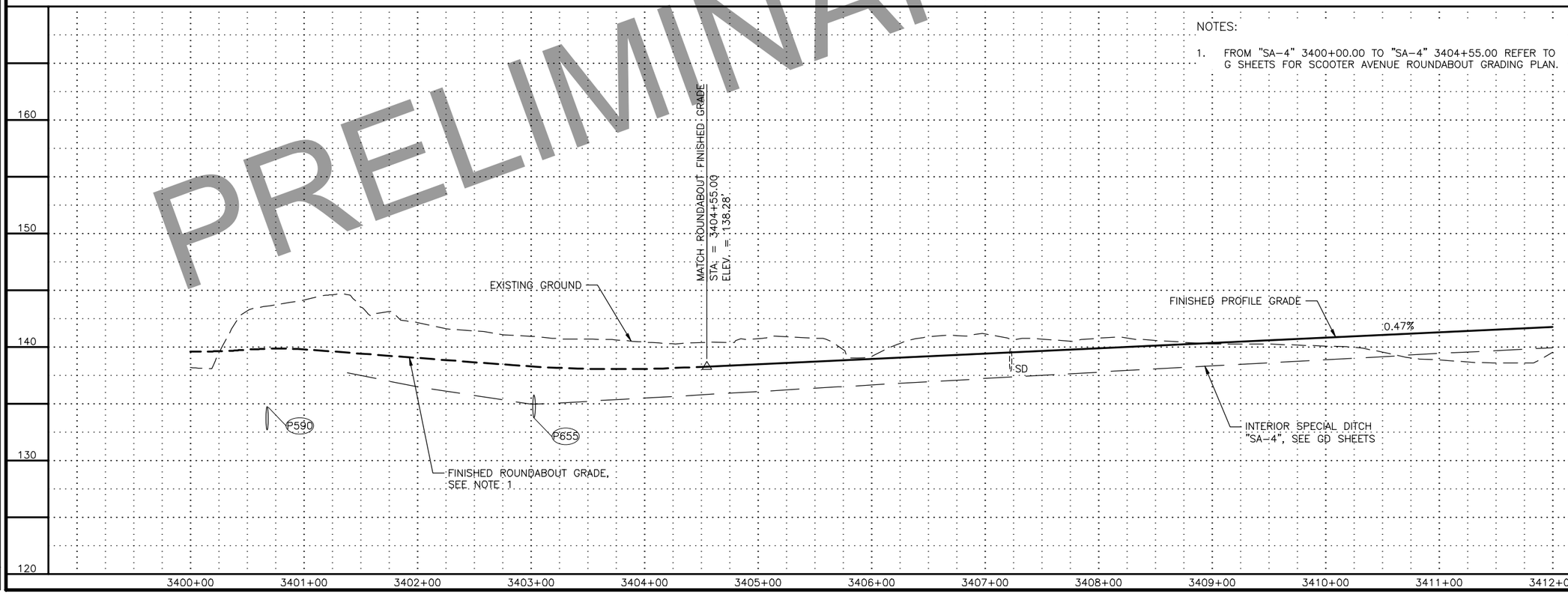
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "SA-3"
PLAN AND PROFILE
3311+00 TO 3319+85



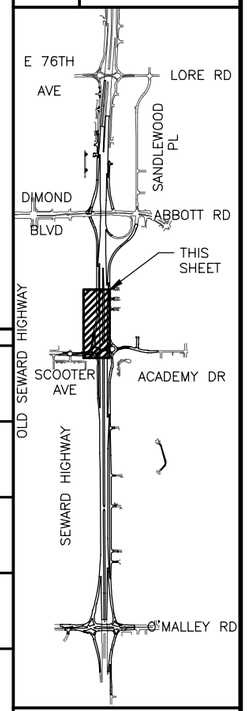
MATCH LINE "SA–4" STA 3412+00
SHEET F37



SHEET NO.	TOTAL SHEETS
F36	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "SA–4"
PLAN AND PROFILE
3400+00 TO 3412+00

DATE/TIME 4/7/2022 11:21 AM | LAYOUT F36 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RC053776\D08763331\00012_F36_PNP.DWG

MATCH LINE "SA-4" STA 3412+00
SHEET F36

P.I. STA. 3414+46.13
N = 312,551.6044
E = 353,335.3367
Δ = 004°00'00.0"
T = 104.76'
L = 209.44'
R = 3,000.00'

P.C. STA. 3413+41.37
P.T. STA. 3415+50.81

MATCH GORE FINISHED GRADE
"SA-4" 3416+94.90
N 312799.8989
E 353351.9352
SEE NOTE 1

END "SA-4"
"SA-4" 3423+12.35
"N-SB-SP" 513+39.84, 36.00' LT
N 313415.9743
E 353393.1197
SEE NOTE 1

ROW
6300+00
3415+00
6305+00
6310+00
HOMER DR "HD-3"
N00°10'31.71"W
N03°49'28.29"E
3420+00
RAMP "SA-4"
SEWARD HIGHWAY SOUTHBOUND
505+00
510+00
515+00
MAINLINE "ML"
375+00
910+00
380+00
915+00
905+00
SEWARD HIGHWAY NORTHBOUND
RAMP "DI-5"
4205+00
RAMP "DI-2"
5315+00
BRAYTON DR "BD-3"

NOTES:

1. FROM "SA-4" 3416+94.90 TO "SA-4" 3423+12.35, REFER TO G SHEETS FOR "SA-4"/"ML" GORE GRADING PLAN.

MATCH GORE FINISHED GRADE
STA. = 3416+94.90
ELEV. = 144.06'

GORE FINISHED GRADE, SEE NOTE 1
FINISHED PROFILE GRADE
0.47%
SD
INTERIOR SPECIAL DITCH "SA-4", SEE GD SHEETS
EXISTING GROUND
SS

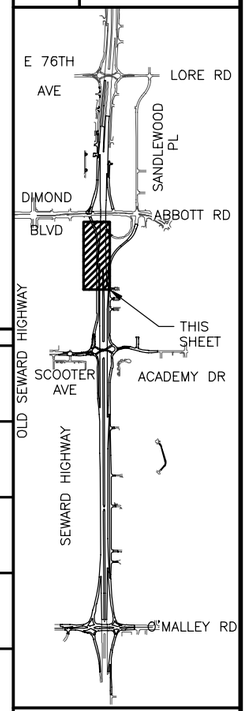
160
150
140
130
120

3412+00 3413+00 3414+00 3415+00 3416+00 3417+00 3418+00 3419+00 3420+00 3421+00 3422+00 3423+00 3424+00 3425+00

SHEET NO.	TOTAL SHEETS
F37	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

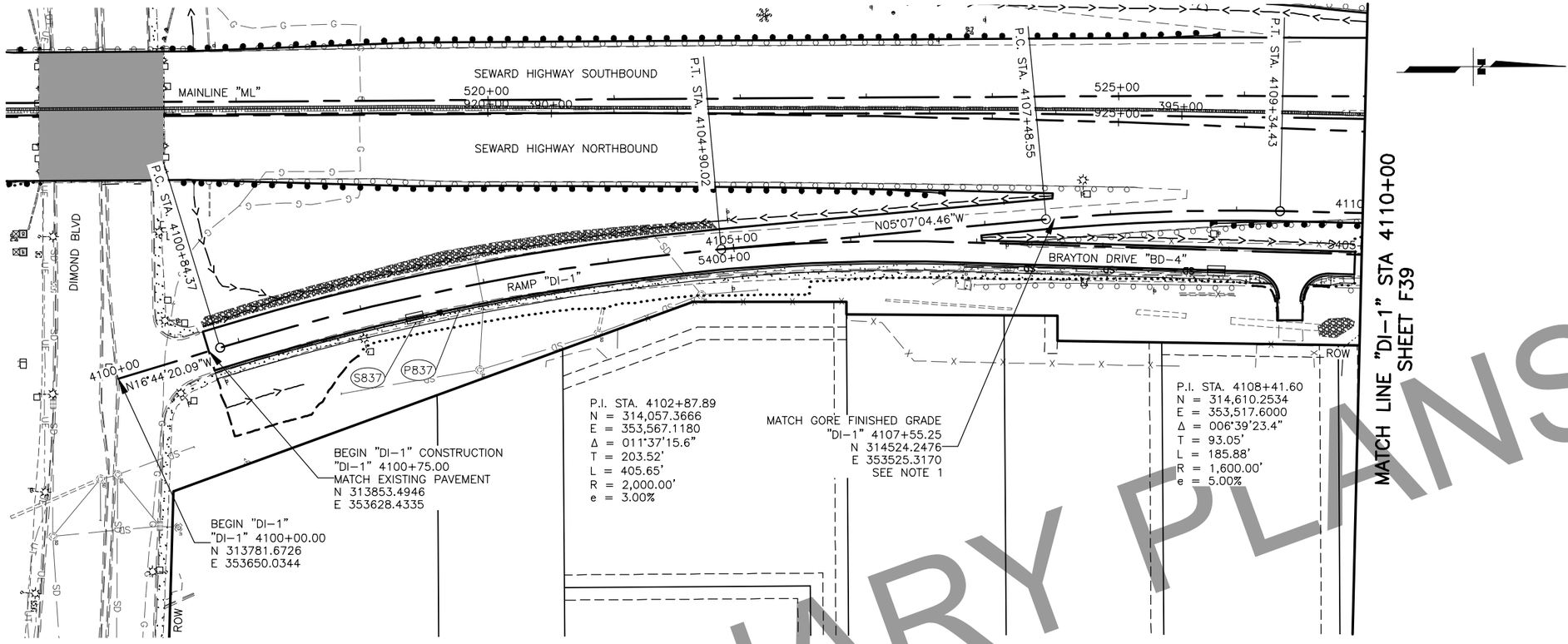
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

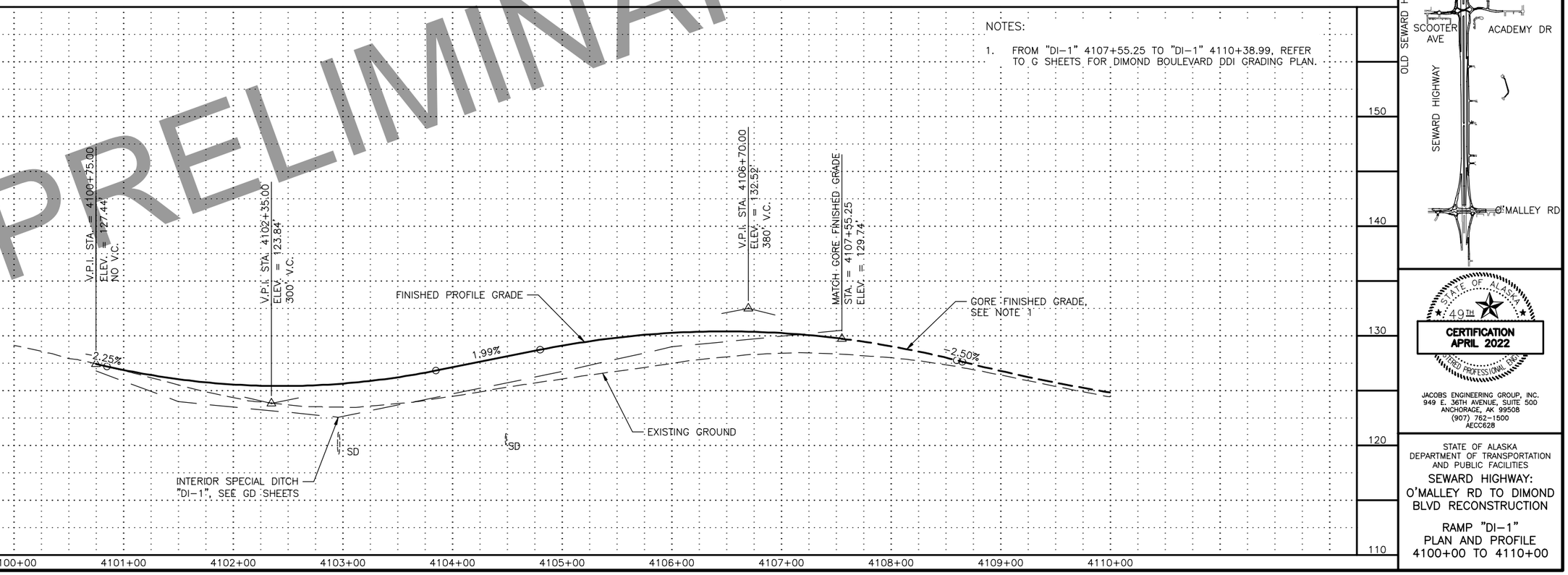
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "SA-4"
PLAN AND PROFILE
3412+00 TO 3423+12

DATE/TIME | 4/7/2022 11:22 AM | LAYOUT | F37 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F37_PNP.DWG]

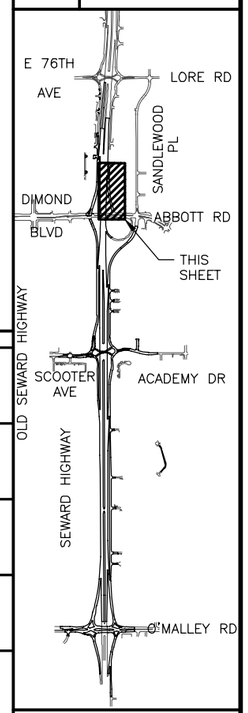




SHEET NO.	TOTAL SHEETS
F38	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

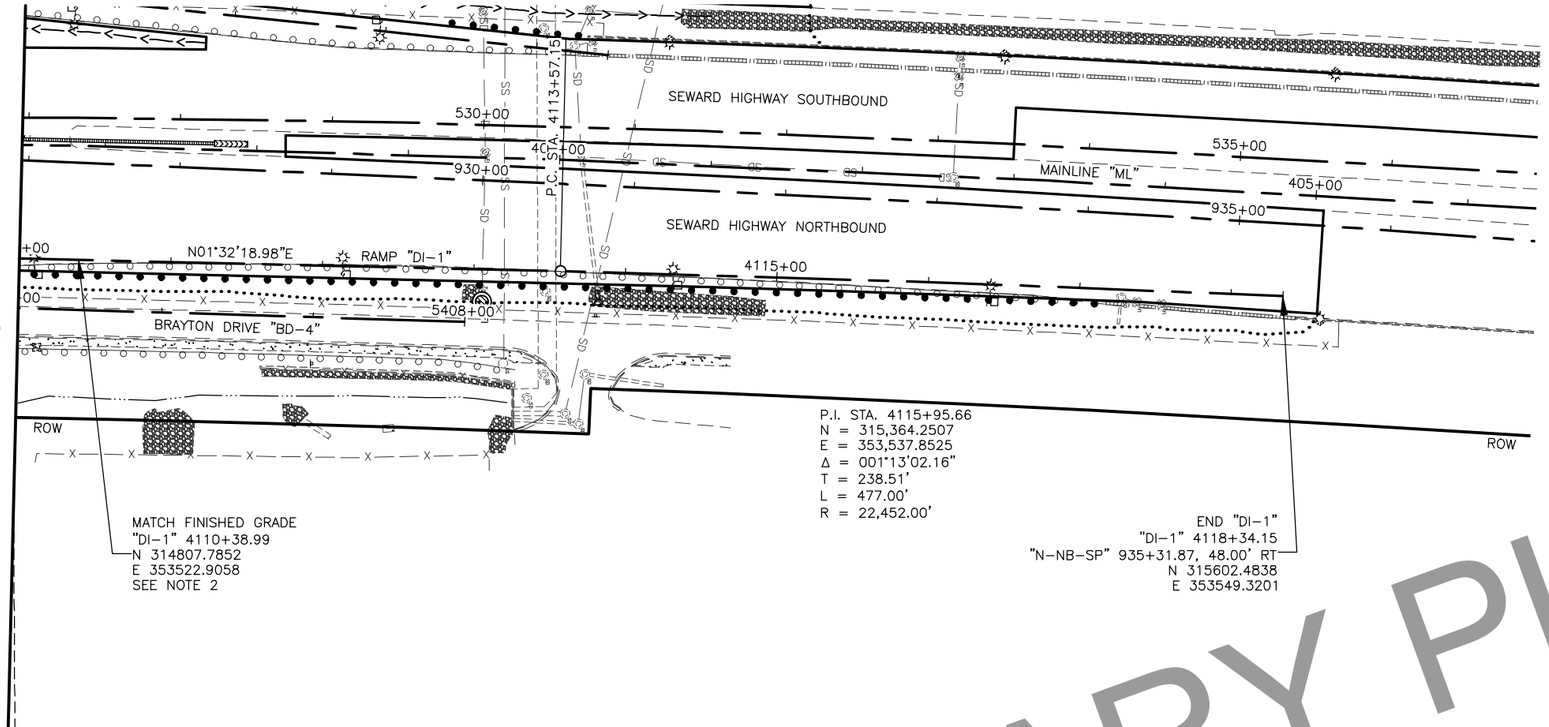
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

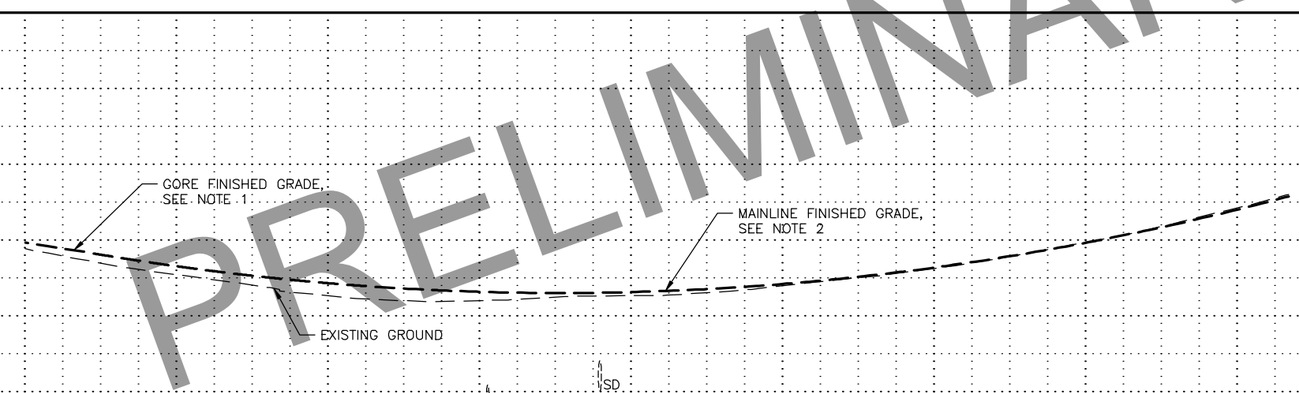
RAMP "DI-1"
PLAN AND PROFILE
4100+00 TO 4110+00

DATE/TIME | 4/7/2022 11:22 AM | LAYOUT | F38 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876331\00012_F38_PNP.DWG

MATCH LINE "DI-1" STA 4110+00
SHEET F38





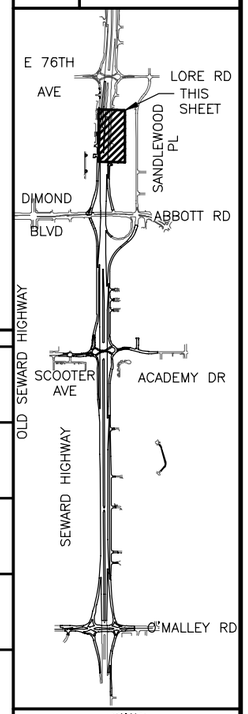
NOTES:

1. FROM "DI-1" 4107+55.25 TO "DI-1" 4110+38.99, REFER TO G SHEETS FOR "DI-1"/"ML" GORE GRADING PLAN.
2. FROM "DI-1" 4110+38.99 TO "DI-1" 4118+34.15, REFER TO MAINLINE PROFILE AND PAVEMENT LAYOUT SHEETS.

SHEET NO.	TOTAL SHEETS
F39	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

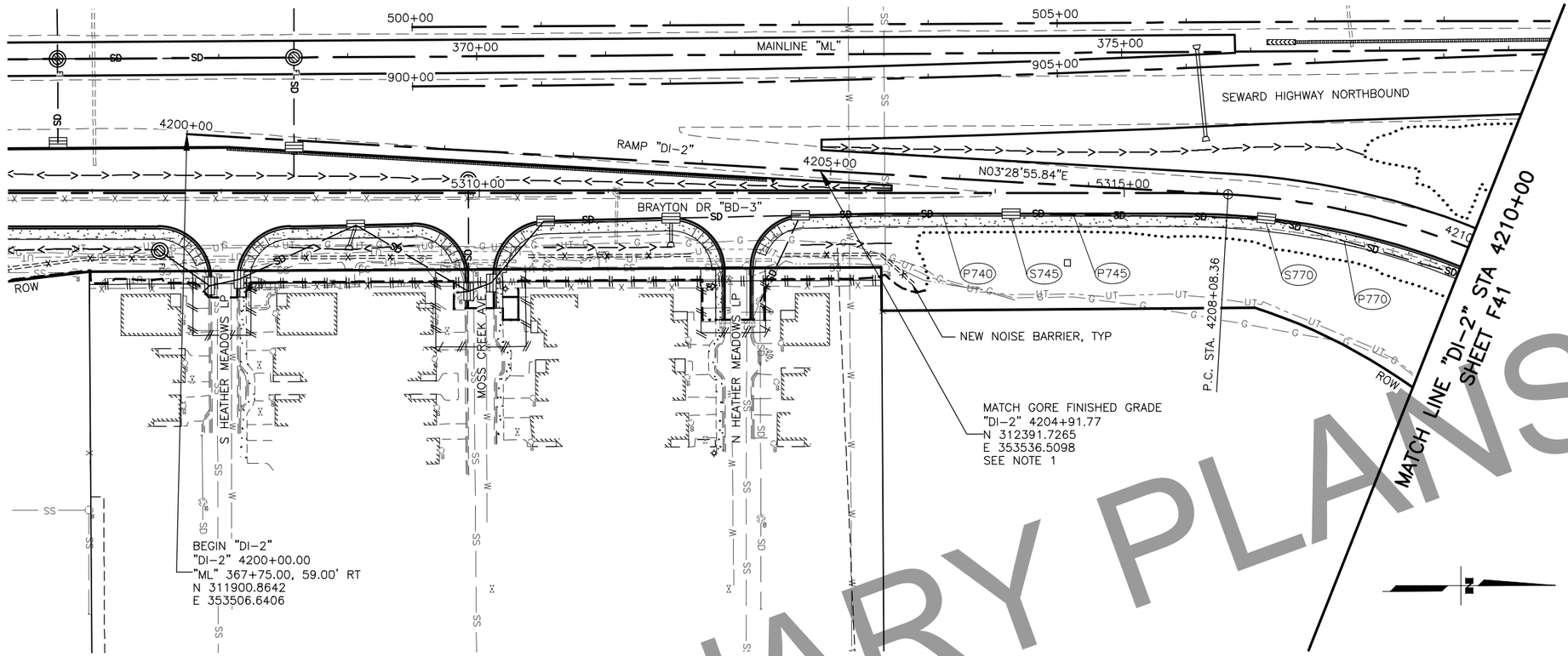
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

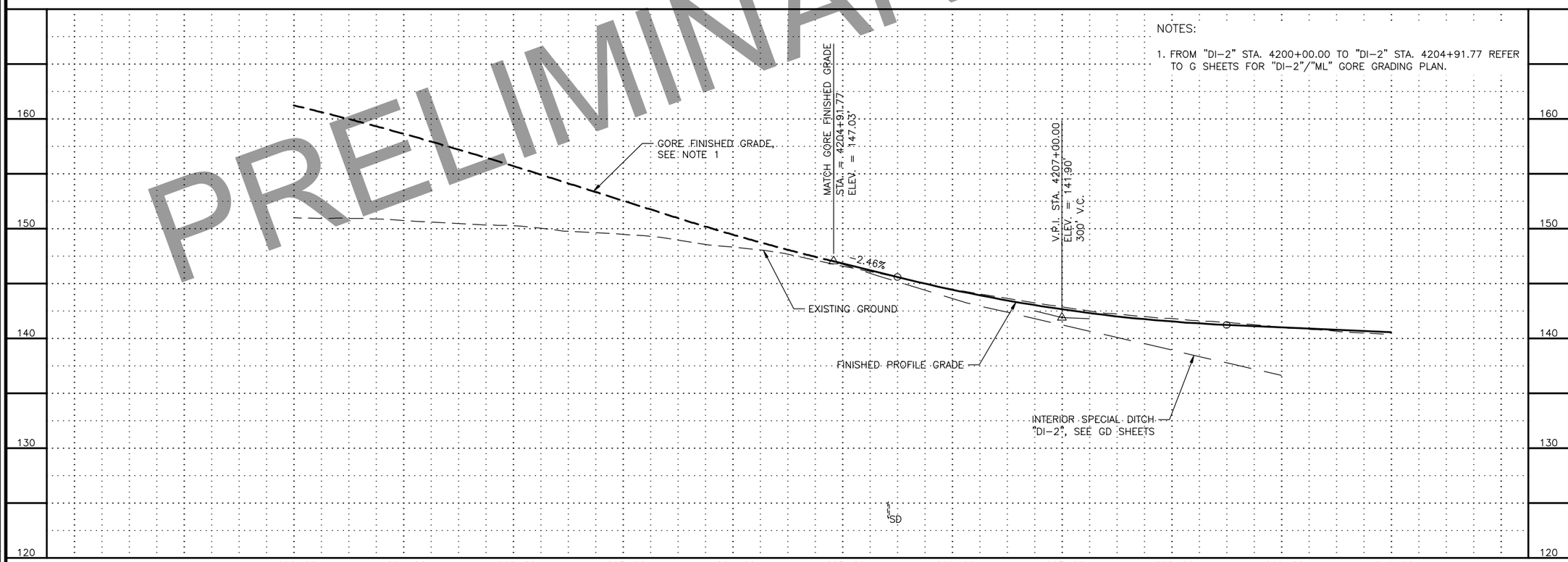
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "DI-1"
PLAN AND PROFILE
4110+00 TO 4118+34

DATE/TIME | 4/7/2022 11:22 AM | LAYOUT | F39 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F39_PNP.DWG



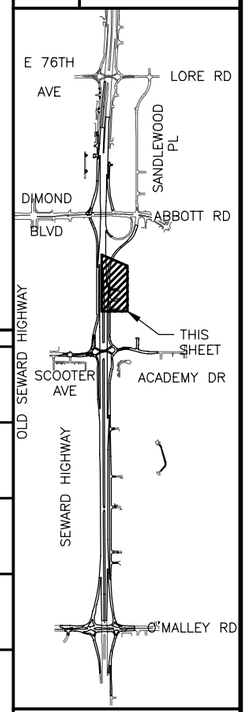


SHEET NO.	TOTAL SHEETS
F40	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

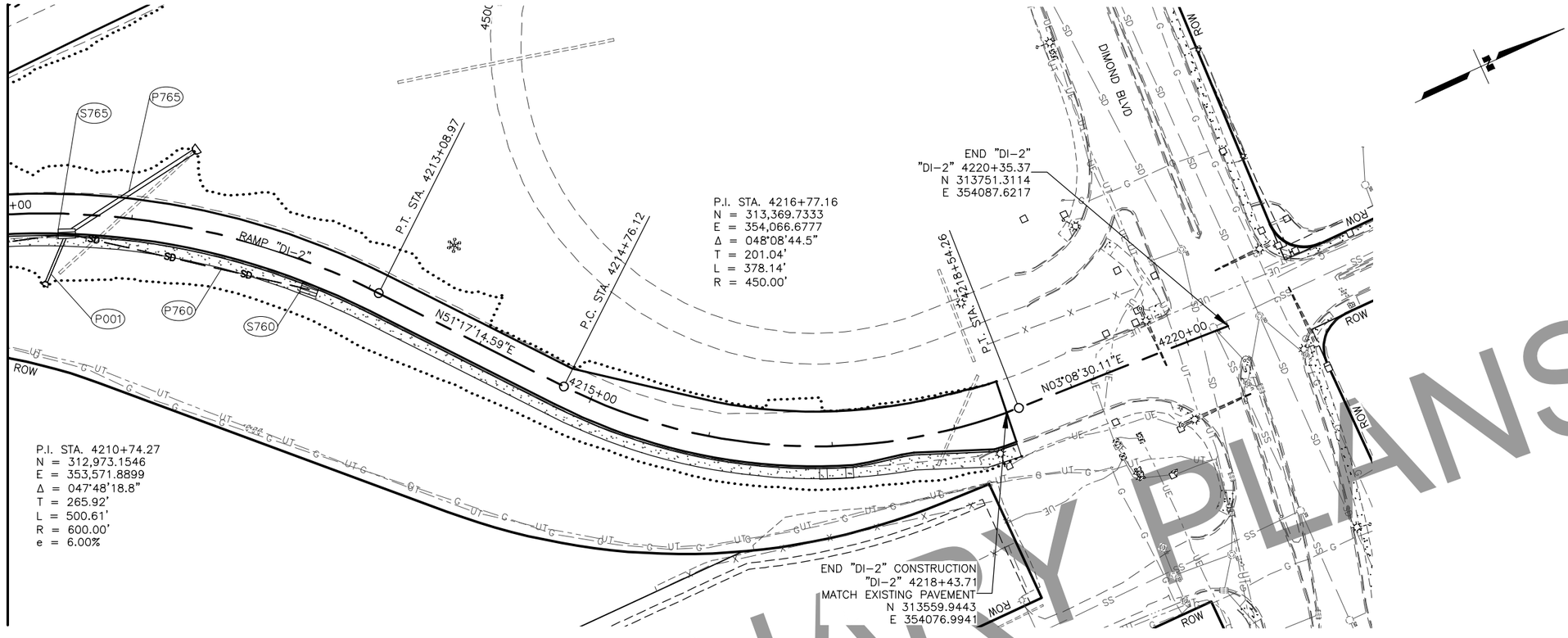
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

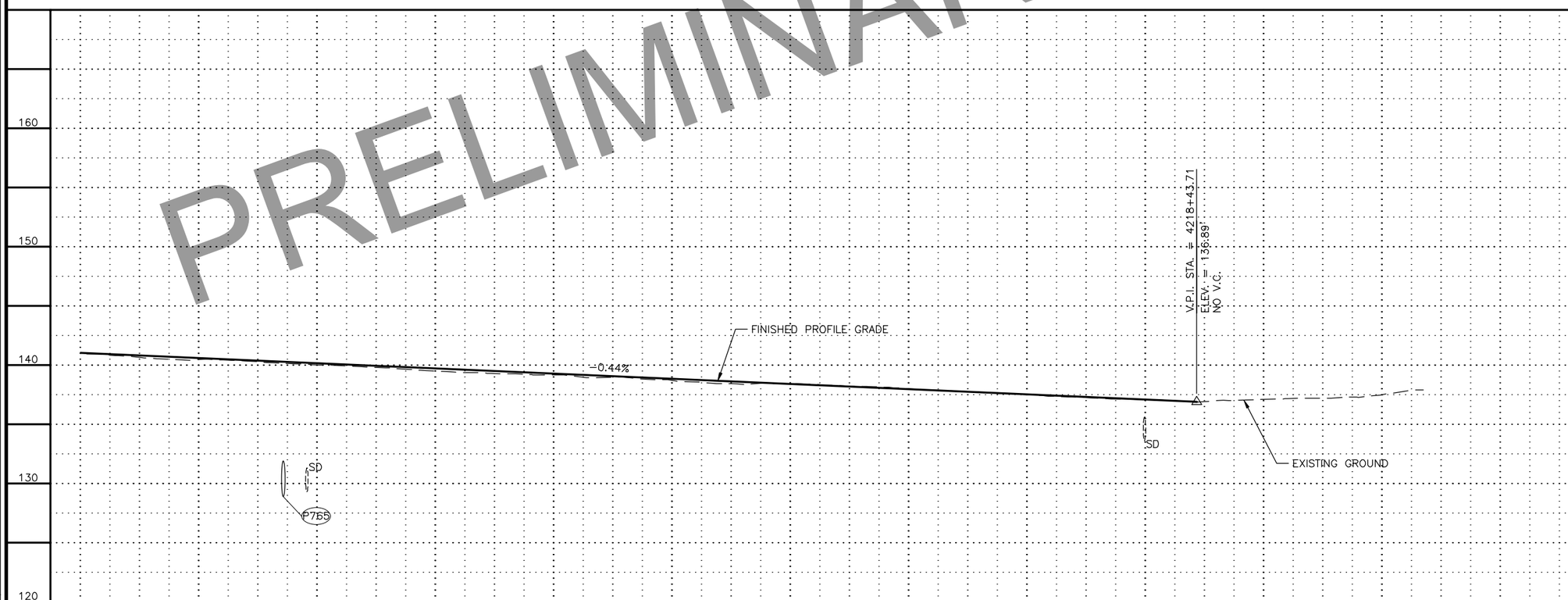
RAMP "DI-2"
PLAN AND PROFILE
4200+00 TO 4210+00

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/7/2022 11:22 AM	F40	JM	MR	RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F40_PNP.DWG

MATCH LINE "DI-2" STA 4210+00
SHEET F40

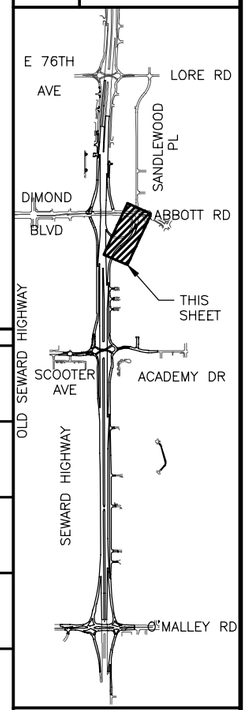




SHEET NO.	TOTAL SHEETS
F41	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
CERTIFIED PROFESSIONAL ENGR

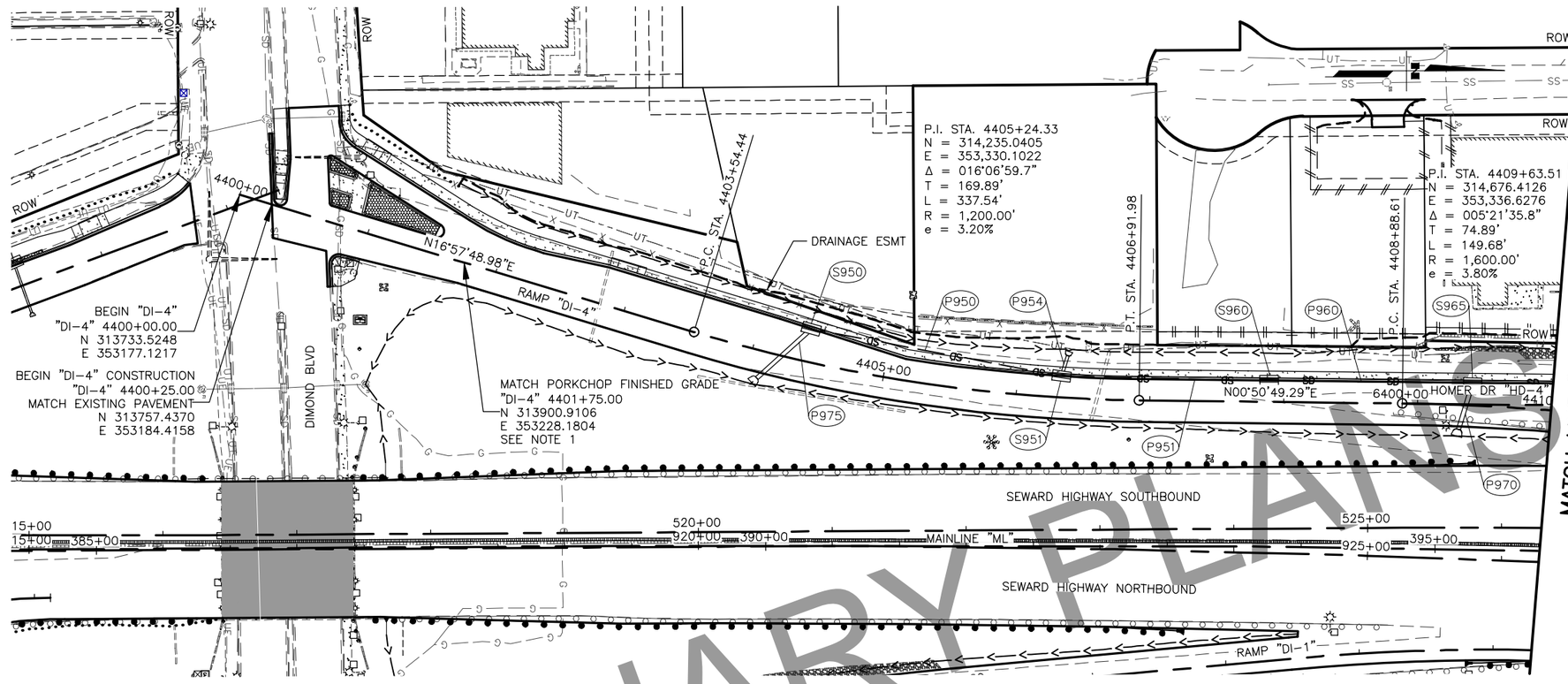
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

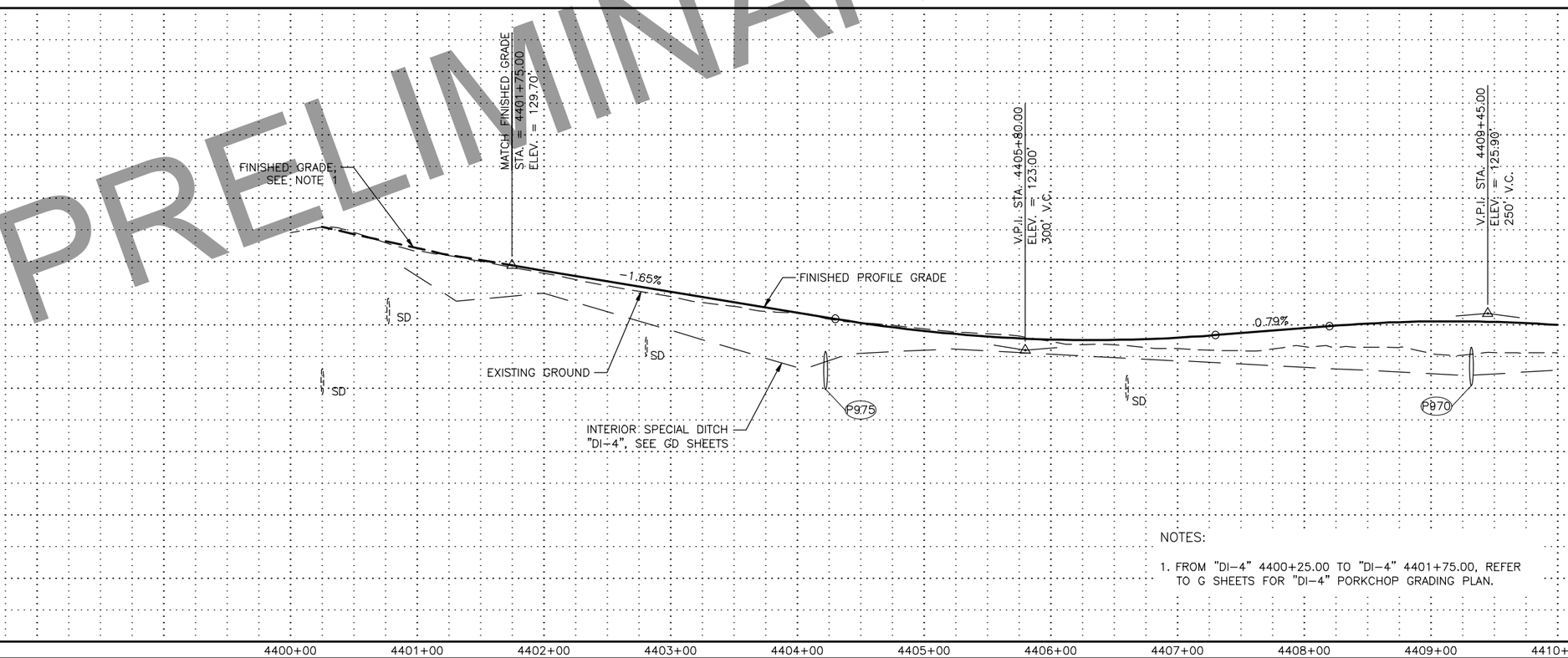
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

RAMP "DI-2"
PLAN AND PROFILE
4210+00 TO 4220+35

DATE/TIME | 4/7/2022 11:23 AM | LAYOUT | F41 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F41_PNP.DWG





NOTES:

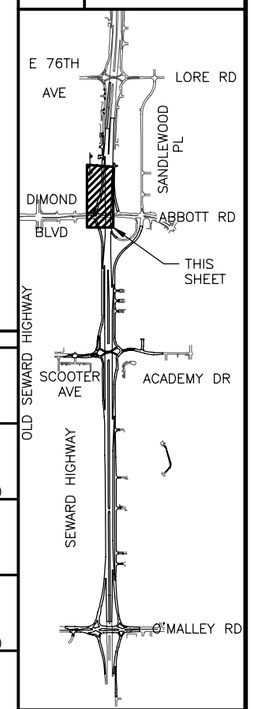
1. FROM "DI-4" 4400+25.00 TO "DI-4" 4401+75.00, REFER TO G SHEETS FOR "DI-4" PORKCHOP GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F42	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "DI-4"
PLAN AND PROFILE
4400+00 TO 4410+00

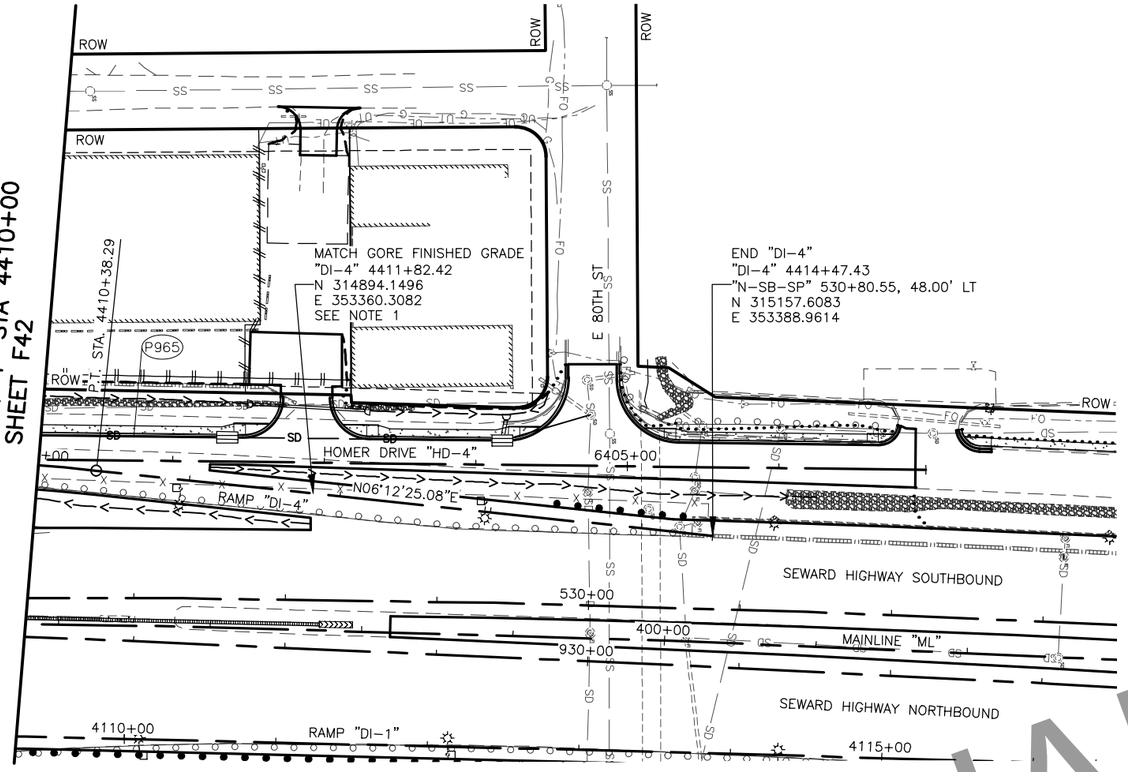
DATE/TIME | 4/7/2022 11:23 AM | LAYOUT | F42 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

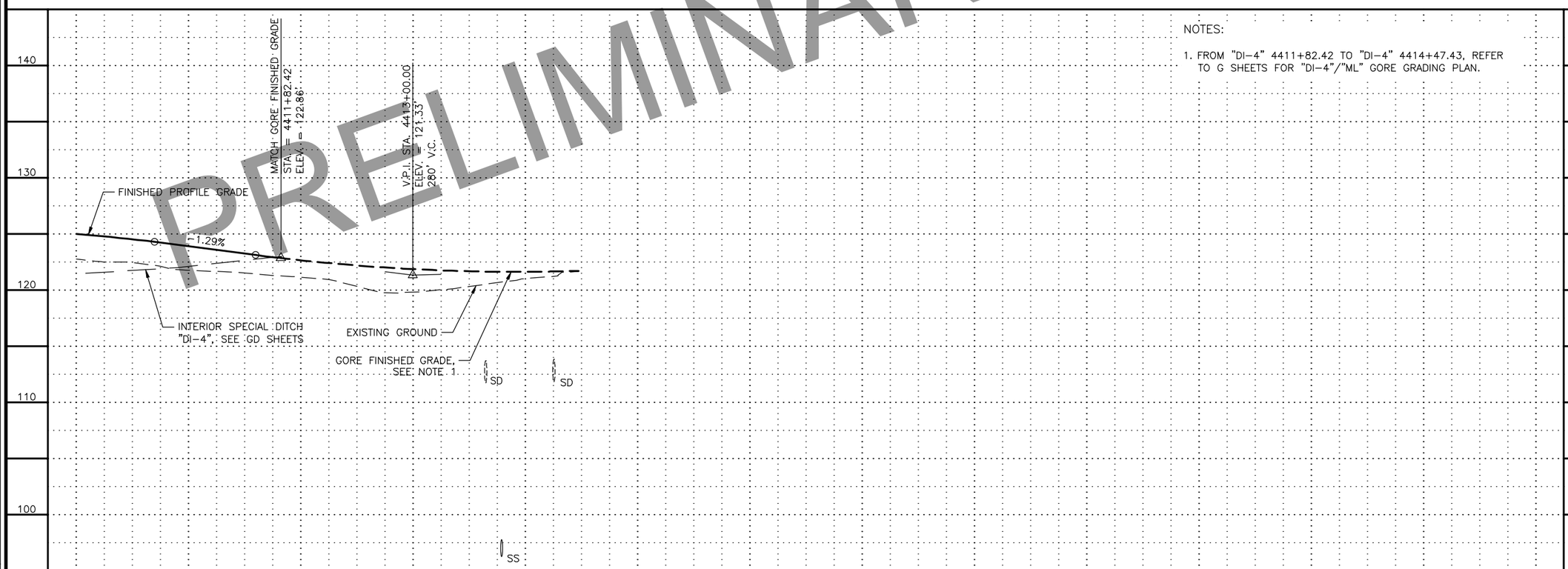
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F42_PNP.DWG

DATE/TIME	4/7/2022 11:23 AM
LAYOUT	F43
DESIGNED	JM
CHECKED	MR
DRAFTED	RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F43_PNP.DWG

MATCH LINE "DI-4" STA 4410+00
SHEET F42





NOTES:

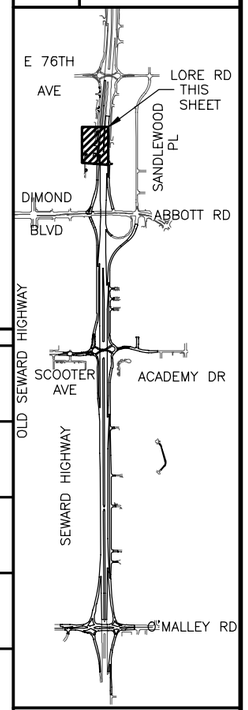
1. FROM "DI-4" 4411+82.42 TO "DI-4" 4414+47.43, REFER TO G SHEETS FOR "DI-4"/"ML" GORE GRADING PLAN.

SHEET NO.	TOTAL SHEETS
F43	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
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JACOBS ENGINEERING GROUP, INC.
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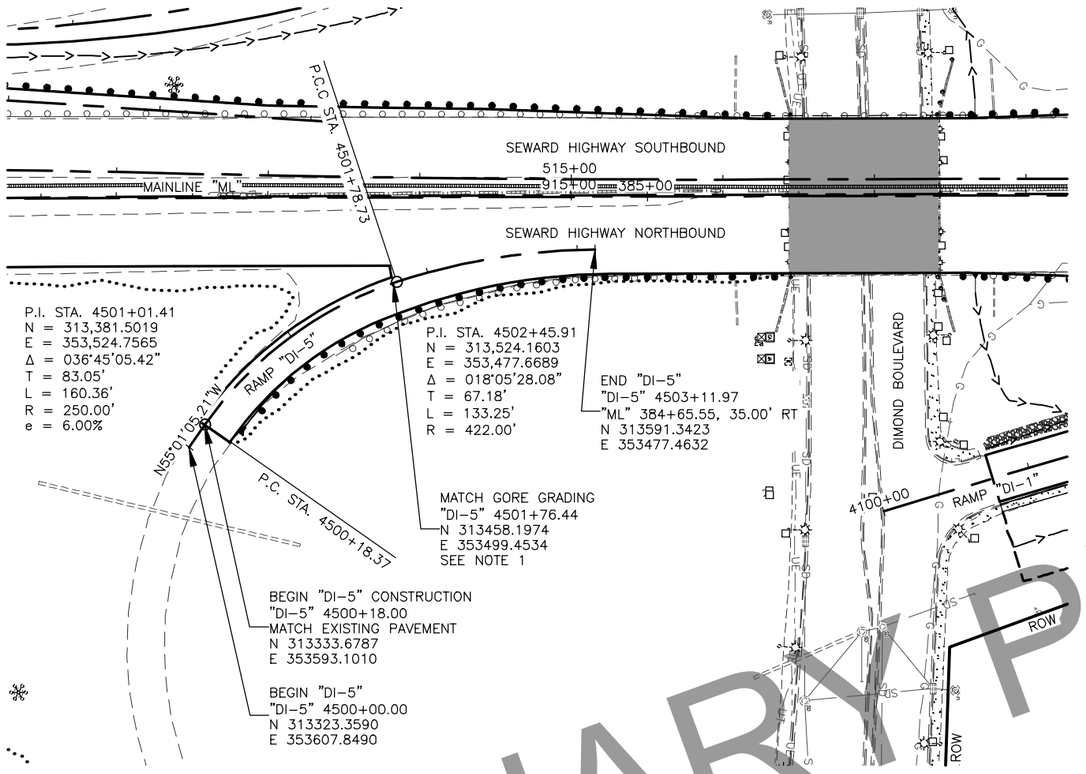
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

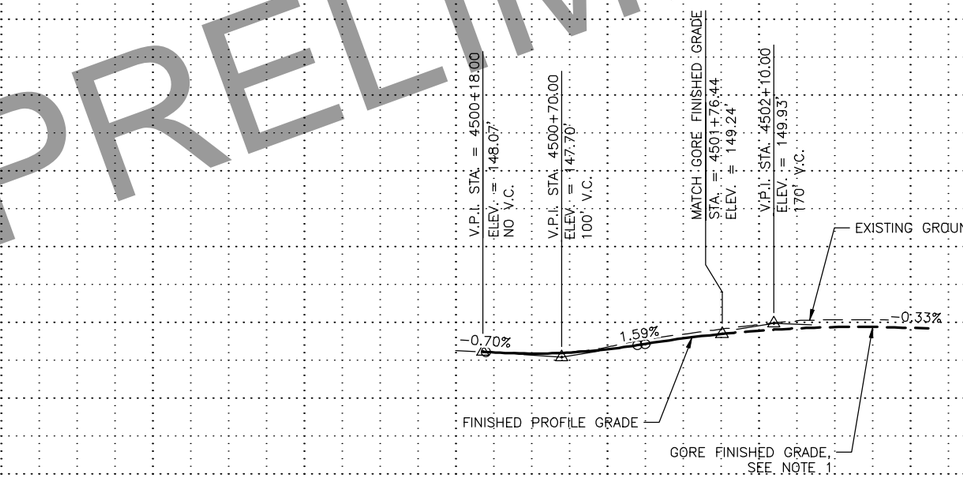
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

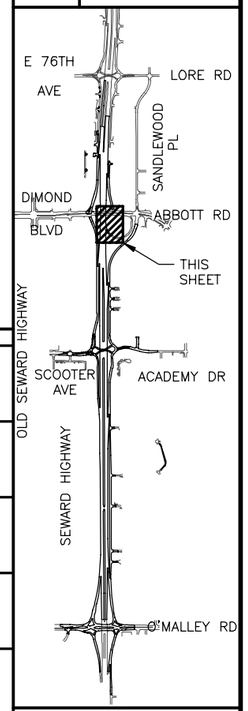
RAMP "DI-4"
PLAN AND PROFILE
4410+00 TO 4414+47



NOTES:

1. FROM "DI-5" 4501+76.44 TO "DI-5" 4503+11.97, REFER TO G SHEETS FOR "DI-5"/"ML" GORE GRADING PLAN.





SHEET NO.	TOTAL SHEETS
F44	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

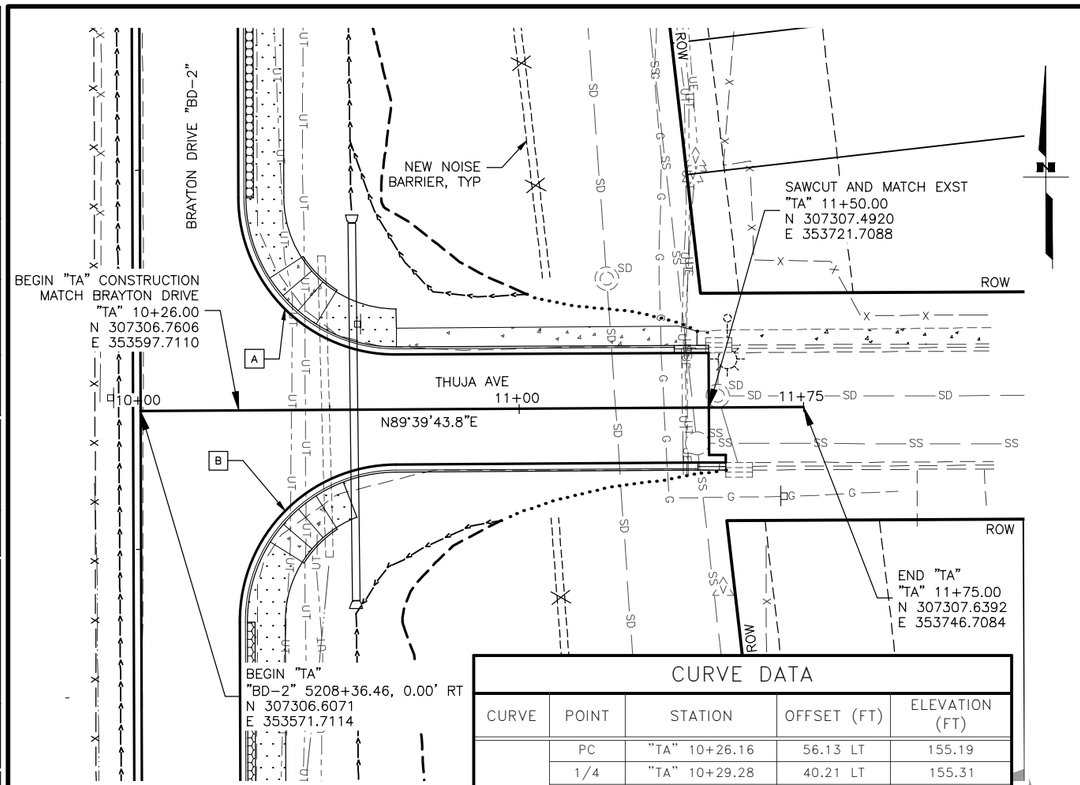
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

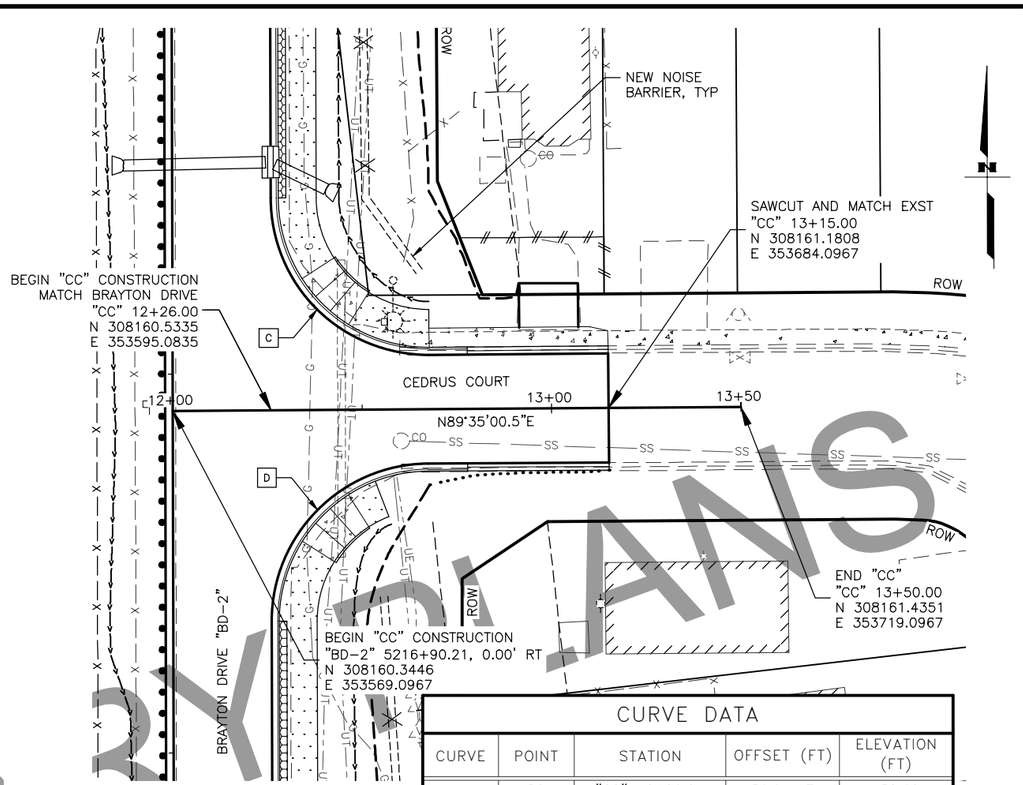
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

RAMP "DI-5"
PLAN AND PROFILE
4500+00 TO 4503+12

DATE/TIME 4/7/2022 11:23 AM | LAYOUT F44 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RC053776\D08763331\00012_F44_PNP.DWG



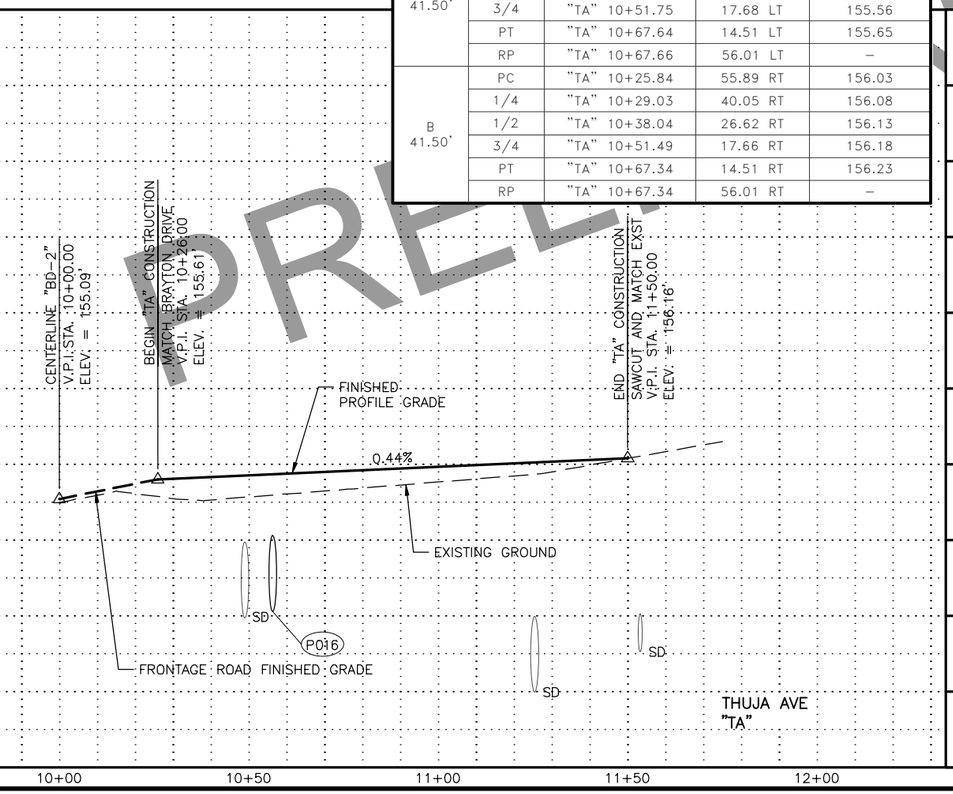


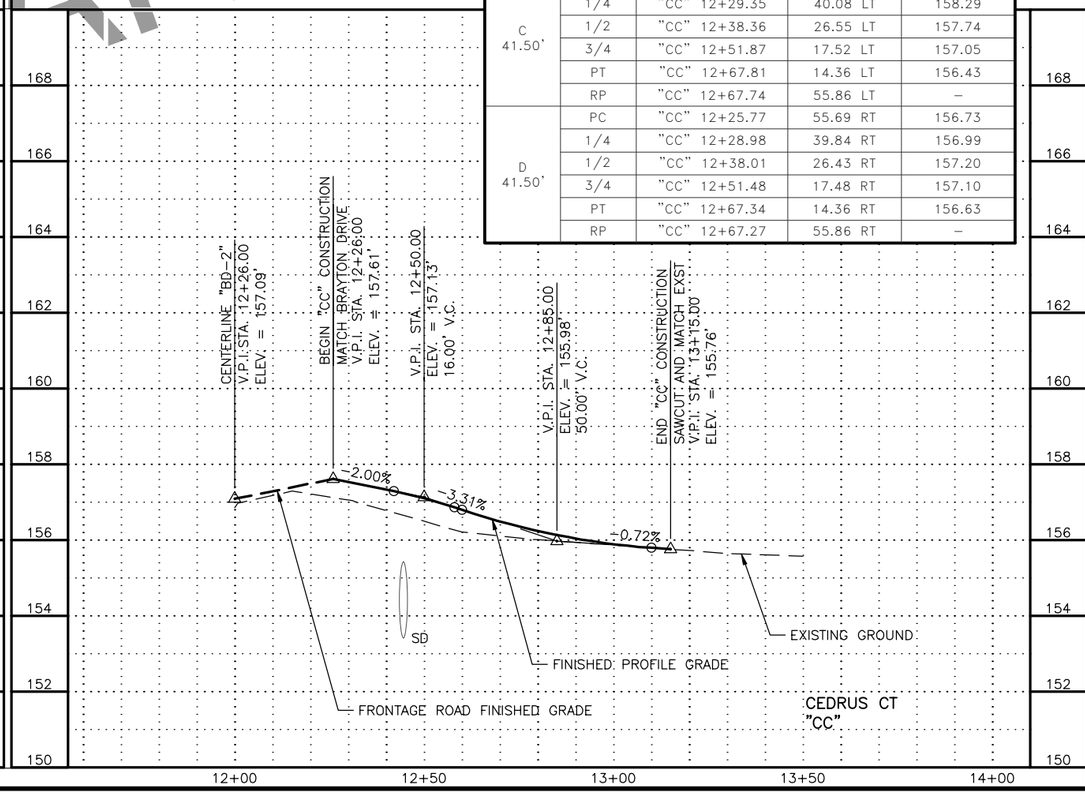
CURVE DATA

CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
A 41.50'	PC	"TA" 10+26.16	56.13 LT	155.19
	1/4	"TA" 10+29.28	40.21 LT	155.31
	1/2	"TA" 10+38.27	26.71 LT	155.43
	3/4	"TA" 10+51.75	17.68 LT	155.56
	PT	"TA" 10+67.64	14.51 LT	155.65
	RP	"TA" 10+67.66	56.01 LT	–
B 41.50'	PC	"TA" 10+25.84	55.89 RT	156.03
	1/4	"TA" 10+29.03	40.05 RT	156.08
	1/2	"TA" 10+38.04	26.62 RT	156.13
	3/4	"TA" 10+51.49	17.66 RT	156.18
	PT	"TA" 10+67.34	14.51 RT	156.23
	RP	"TA" 10+67.34	56.01 RT	–

CURVE DATA

CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
C 41.50'	PC	"CC" 12+26.24	56.04 LT	158.62
	1/4	"CC" 12+29.35	40.08 LT	158.29
	1/2	"CC" 12+38.36	26.55 LT	157.74
	3/4	"CC" 12+51.87	17.52 LT	157.05
	PT	"CC" 12+67.81	14.36 LT	156.43
	RP	"CC" 12+67.74	55.86 LT	–
D 41.50'	PC	"CC" 12+25.77	55.69 RT	156.73
	1/4	"CC" 12+28.98	39.84 RT	156.99
	1/2	"CC" 12+38.01	26.43 RT	157.20
	3/4	"CC" 12+51.48	17.48 RT	157.10
	PT	"CC" 12+67.34	14.36 RT	156.63
	RP	"CC" 12+67.27	55.86 RT	–

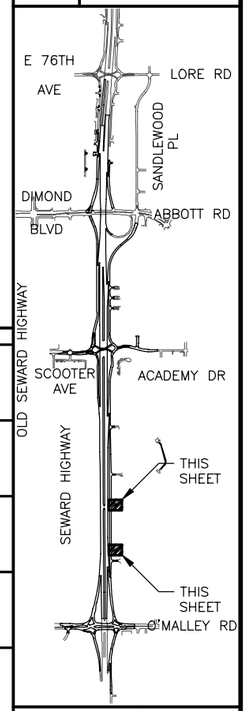




SHEET NO.	TOTAL SHEETS
F45	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

STREET APPROACH PLAN AND PROFILE
THUJA AVENUE
CEDRUS COURT

DATE/TIME 4/7/2022 11:24 AM | LAYOUT F45 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F45_PNP.DWG

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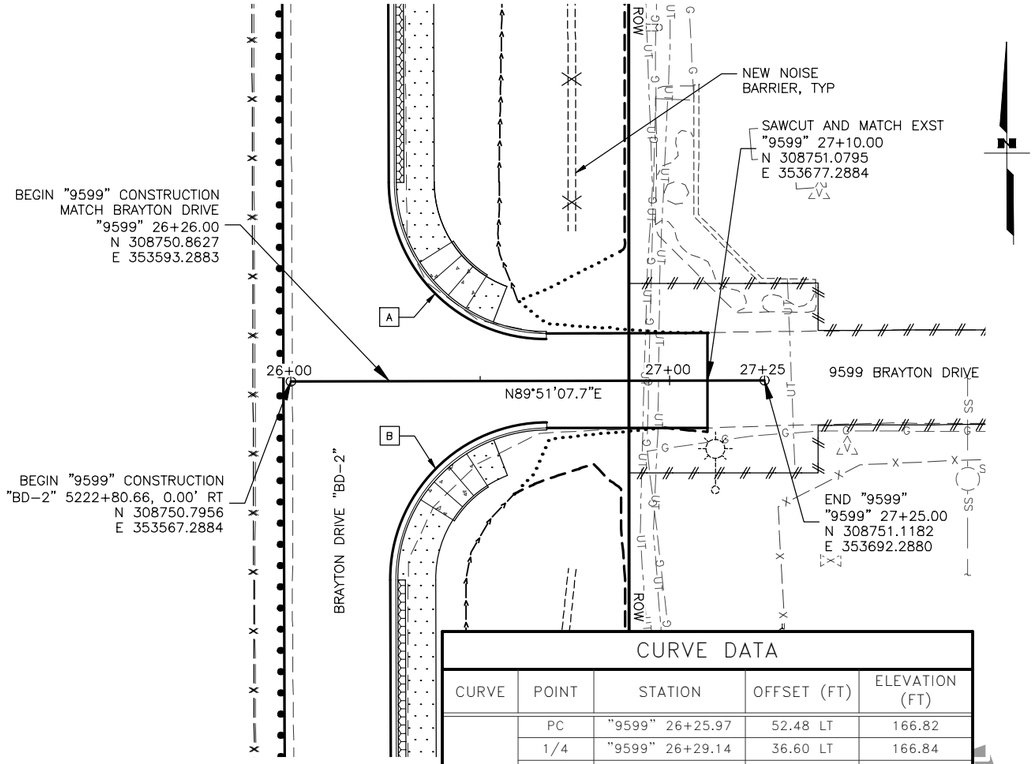
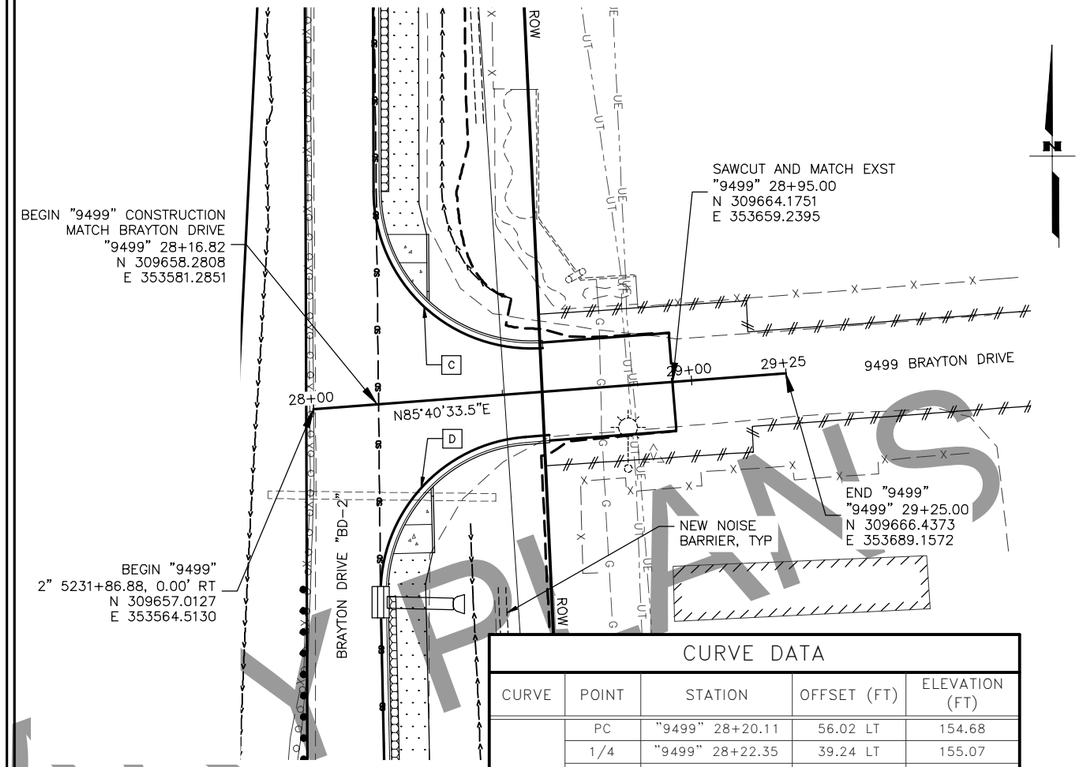


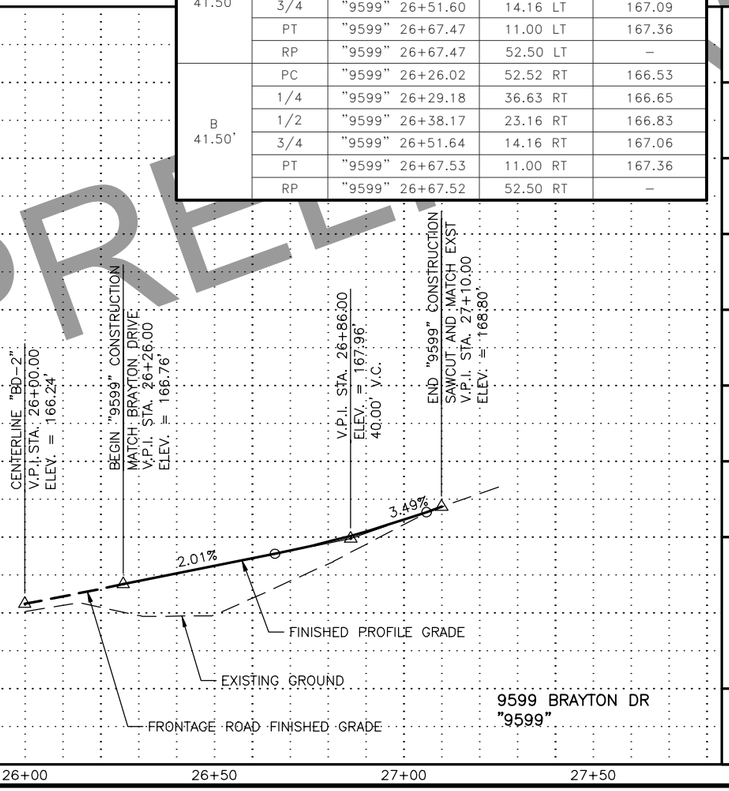


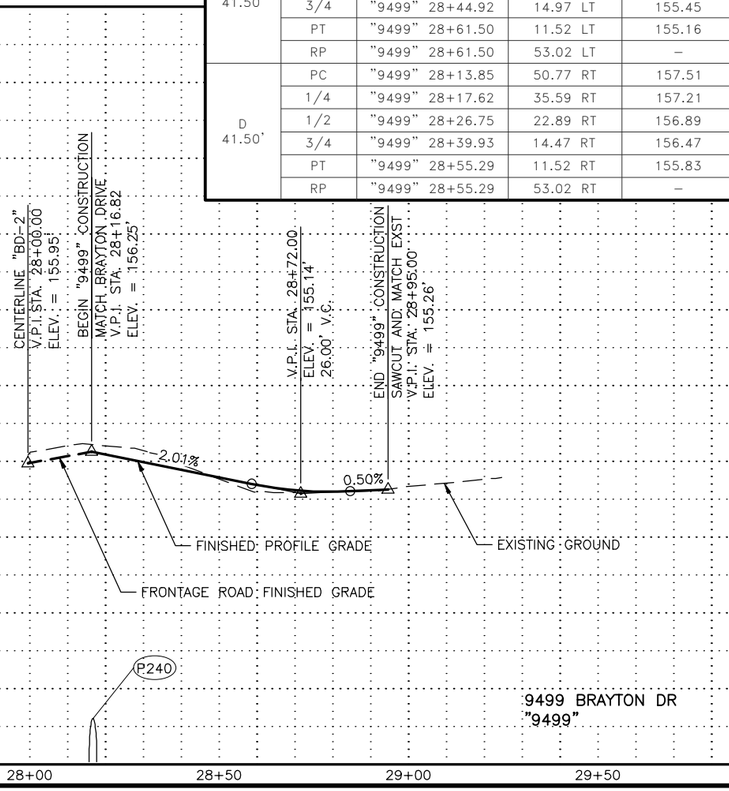
CURVE DATA

CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
A 41.50'	PC	"9599" 26+25.97	52.48 LT	166.82
	1/4	"9599" 26+29.14	36.60 LT	166.84
	1/2	"9599" 26+38.14	23.15 LT	166.93
	3/4	"9599" 26+51.60	14.16 LT	167.09
	PT	"9599" 26+67.47	11.00 LT	167.36
	RP	"9599" 26+67.47	52.50 LT	–
B 41.50'	PC	"9599" 26+26.02	52.52 RT	166.53
	1/4	"9599" 26+29.18	36.63 RT	166.65
	1/2	"9599" 26+38.17	23.16 RT	166.83
	3/4	"9599" 26+51.64	14.16 RT	167.06
	PT	"9599" 26+67.53	11.00 RT	167.36
	RP	"9599" 26+67.52	52.50 RT	–

CURVE DATA

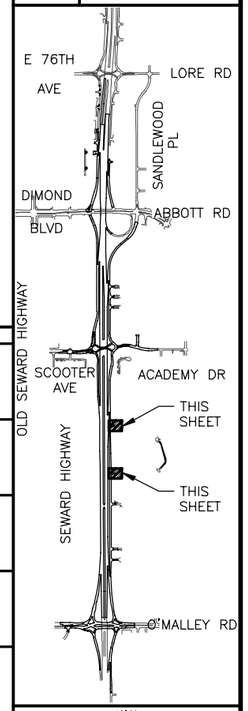
CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
C 41.50'	PC	"9499" 28+20.11	56.02 LT	154.68
	1/4	"9499" 28+22.35	39.24 LT	155.07
	1/2	"9499" 28+31.11	24.76 LT	155.40
	3/4	"9499" 28+44.92	14.97 LT	155.45
	PT	"9499" 28+61.50	11.52 LT	155.16
	RP	"9499" 28+61.50	53.02 LT	–
D 41.50'	PC	"9499" 28+13.85	50.77 RT	157.51
	1/4	"9499" 28+17.62	35.59 RT	157.21
	1/2	"9499" 28+26.75	22.89 RT	156.89
	3/4	"9499" 28+39.93	14.47 RT	156.47
	PT	"9499" 28+55.29	11.52 RT	155.83
	RP	"9499" 28+55.29	53.02 RT	–





SHEET NO.	TOTAL SHEETS
F46	F52
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
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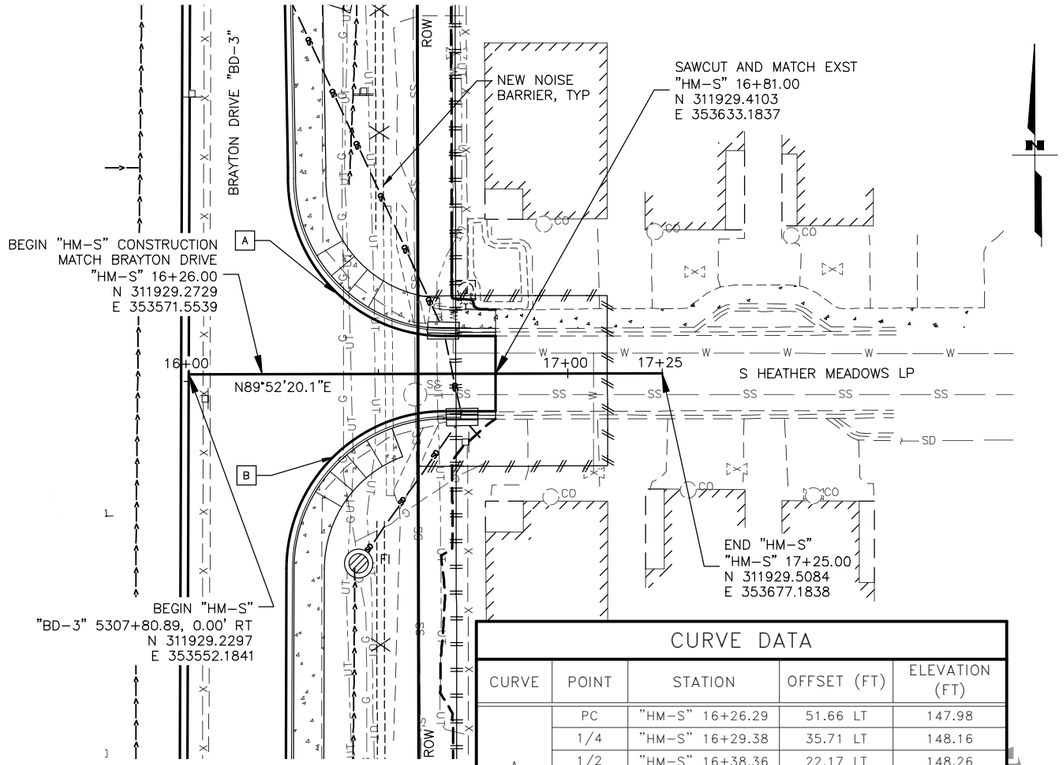
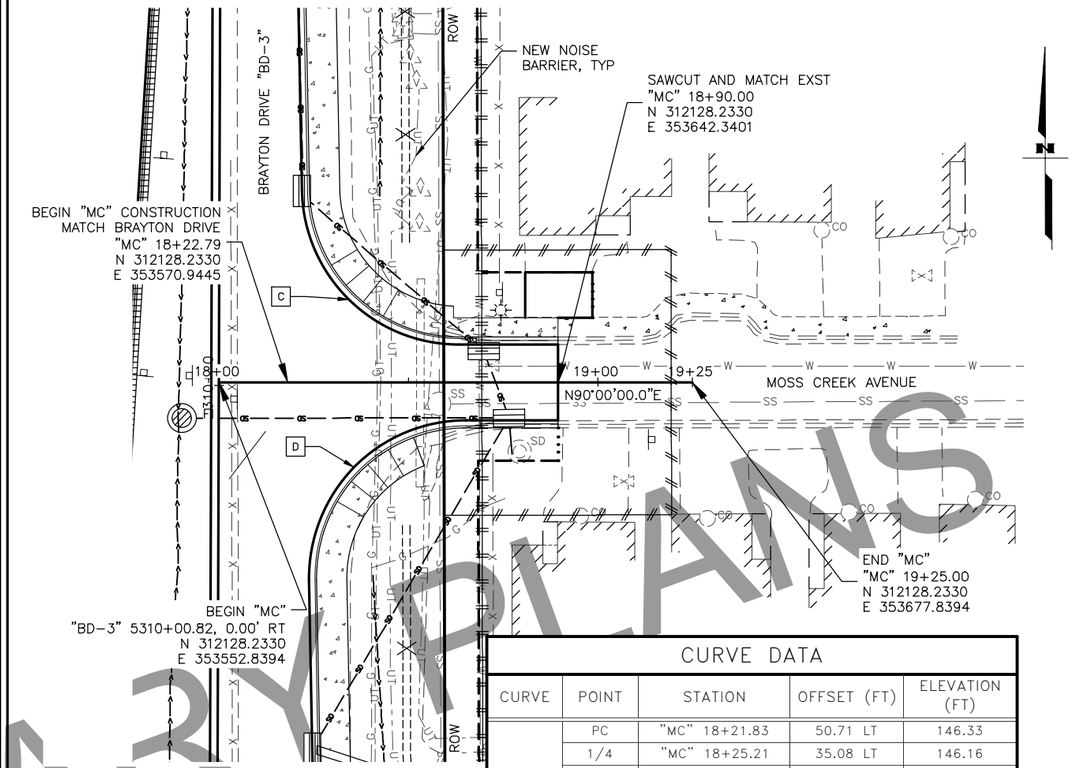
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
DRIVEWAY
PLAN AND PROFILE
9599 BRAYTON DRIVE
9499 BRAYTON DRIVE

DATE/TIME | 4/7/2022 11:25 AM | LAYOUT | F47 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F47_PNP.DWG



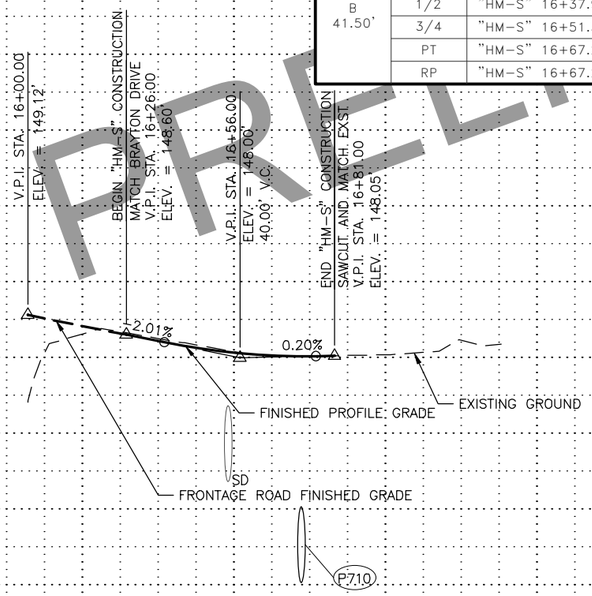


CURVE DATA

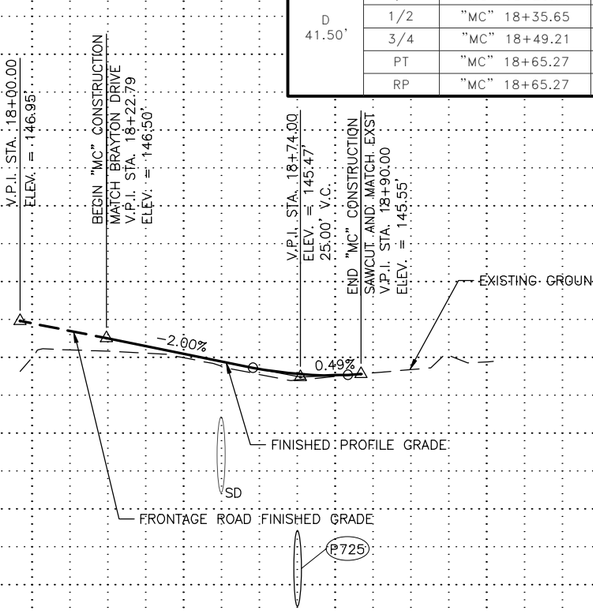
CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
A 41.50'	PC	"HM-S" 16+26.29	51.66 LT	147.98
	1/4	"HM-S" 16+29.38	35.71 LT	148.16
	1/2	"HM-S" 16+38.36	22.17 LT	148.26
	3/4	"HM-S" 16+51.85	13.11 LT	148.14
	PT	"HM-S" 16+67.79	09.93 LT	147.96
	RP	"HM-S" 16+67.79	51.43 LT	–
B 41.50'	PC	"HM-S" 16+25.72	51.20 RT	149.11
	1/4	"HM-S" 16+28.94	35.39 RT	148.79
	1/2	"HM-S" 16+37.95	22.01 RT	148.46
	3/4	"HM-S" 16+51.39	13.07 RT	148.13
	PT	"HM-S" 16+67.22	09.93 RT	147.85
	RP	"HM-S" 16+67.22	51.43 LT	–

CURVE DATA

CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
C 41.50'	PC	"MC" 18+21.83	50.71 LT	146.33
	1/4	"MC" 18+25.21	35.08 LT	146.16
	1/2	"MC" 18+34.26	21.88 LT	145.92
	3/4	"MC" 18+47.62	13.08 LT	145.67
	PT	"MC" 18+63.32	10.00 LT	145.45
	RP	"MC" 18+63.32	51.50 LT	–
D 41.50'	PC	"MC" 18+23.78	52.29 RT	146.89
	1/4	"MC" 18+26.71	36.16 RT	146.55
	1/2	"MC" 18+35.65	22.43 RT	146.22
	3/4	"MC" 18+49.21	13.23 RT	145.89
	PT	"MC" 18+65.27	10.00 RT	145.56
	RP	"MC" 18+65.27	51.50 RT	–



S HEATHER MEADOWS LP
"HM-S"

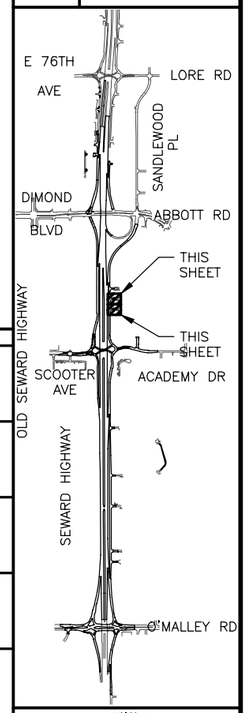


MOSS CREEK AVE
"MC"

SHEET NO.	TOTAL SHEETS
F47	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

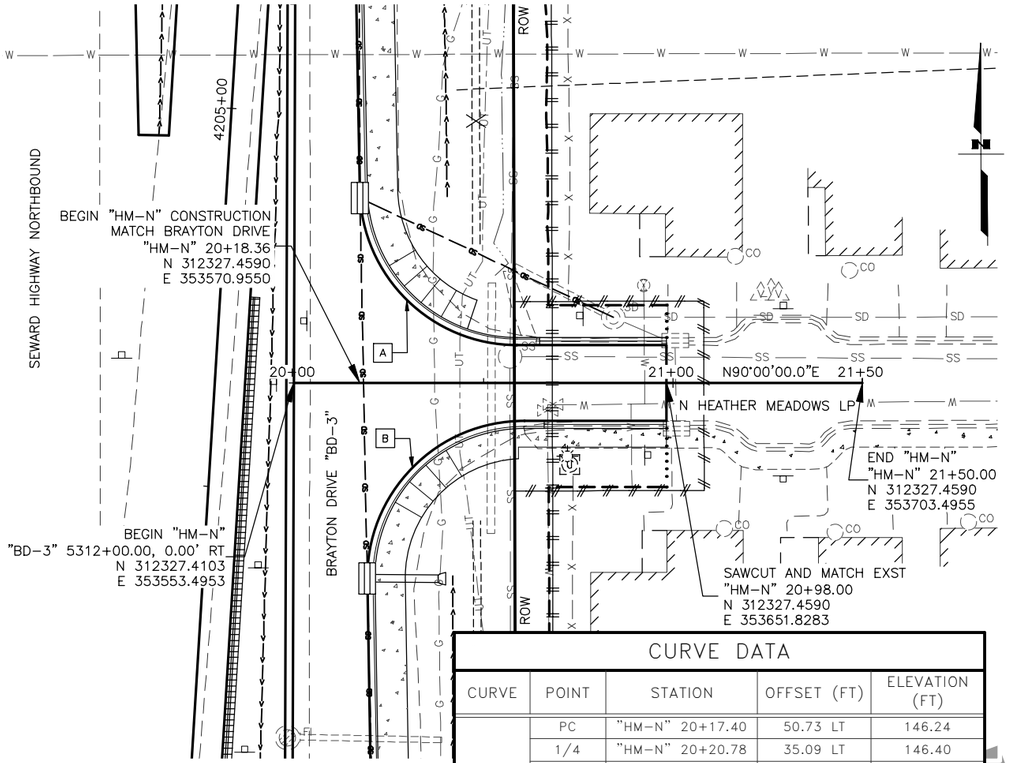
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

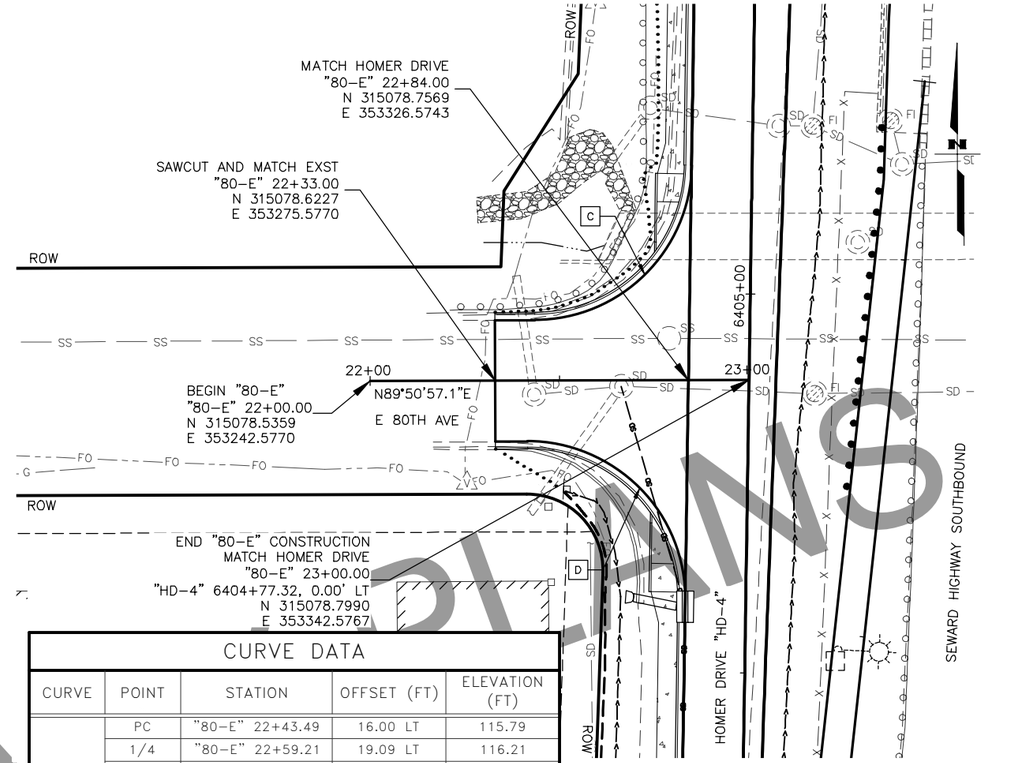
STREET APPROACH PLAN AND PROFILE S HEATHER MEADOWS LP MOSS CREEK AVENUE

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:25 AM	JM	RM	MR

LAYOUT: F48

FILE: C:_PW_WORKDIR\DEN001\RK053776\D08763331\000122_F48_PNP.DWG



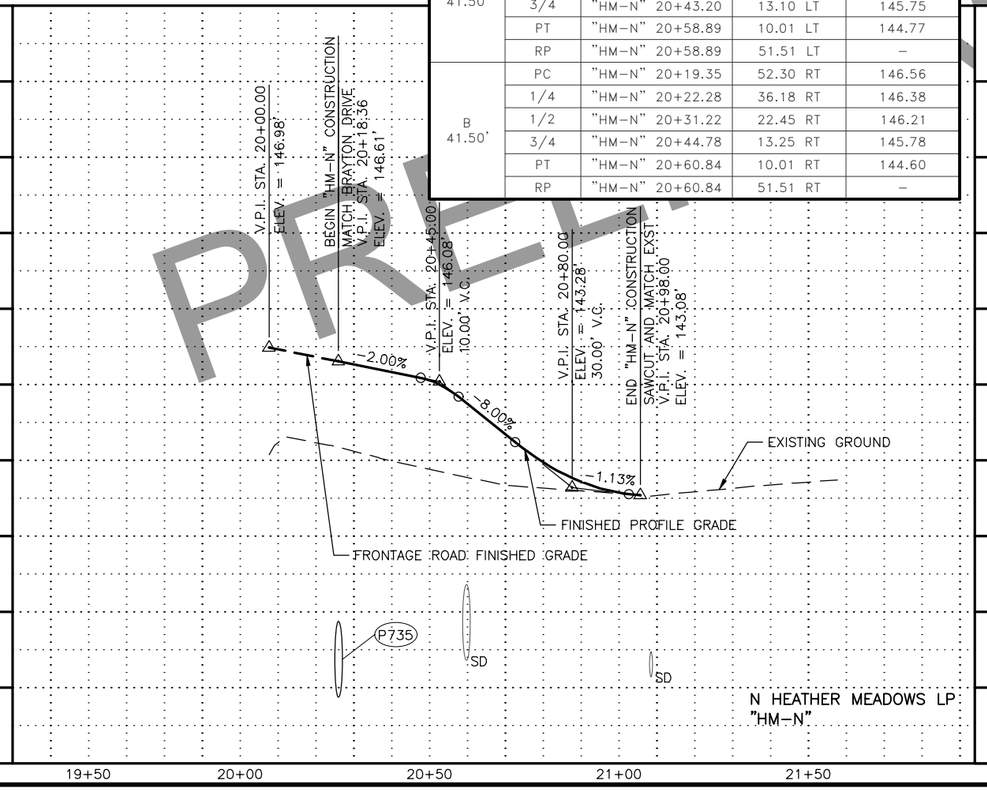


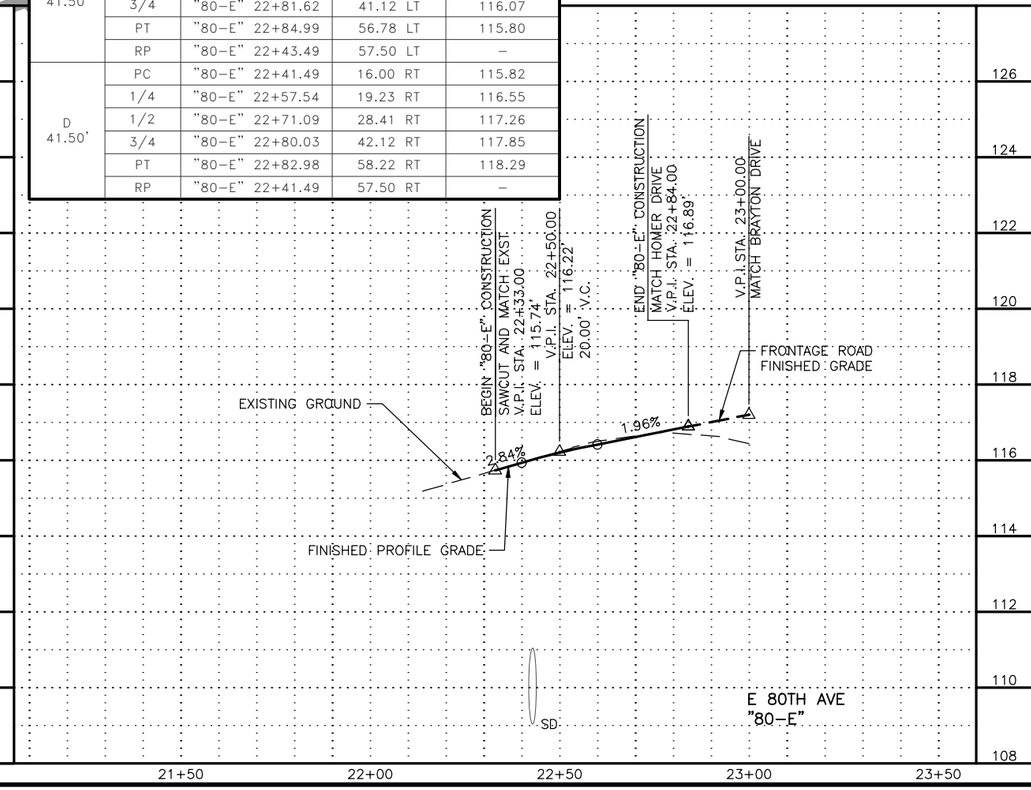
CURVE DATA

CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
A 41.50'	PC	"HM–N" 20+17.40	50.73 LT	146.24
	1/4	"HM–N" 20+20.78	35.09 LT	146.40
	1/2	"HM–N" 20+29.83	21.89 LT	146.14
	3/4	"HM–N" 20+43.20	13.10 LT	145.75
	PT	"HM–N" 20+58.89	10.01 LT	144.77
	RP	"HM–N" 20+58.89	51.51 LT	–
B 41.50'	PC	"HM–N" 20+19.35	52.30 RT	146.56
	1/4	"HM–N" 20+22.28	36.18 RT	146.38
	1/2	"HM–N" 20+31.22	22.45 RT	146.21
	3/4	"HM–N" 20+44.78	13.25 RT	145.78
	PT	"HM–N" 20+60.84	10.01 RT	144.60
	RP	"HM–N" 20+60.84	51.51 RT	–

CURVE DATA

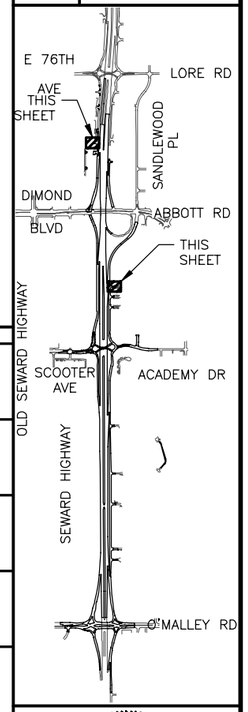
CURVE	POINT	STATION	OFFSET (FT)	ELEVATION (FT)
C 41.50'	PC	"80–E" 22+43.49	16.00 LT	115.79
	1/4	"80–E" 22+59.21	19.09 LT	116.21
	1/2	"80–E" 22+72.58	27.90 LT	116.29
	3/4	"80–E" 22+81.62	41.12 LT	116.07
	PT	"80–E" 22+84.99	56.78 LT	115.80
	RP	"80–E" 22+43.49	57.50 LT	–
D 41.50'	PC	"80–E" 22+41.49	16.00 RT	115.82
	1/4	"80–E" 22+57.54	19.23 RT	116.55
	1/2	"80–E" 22+71.09	28.41 RT	117.26
	3/4	"80–E" 22+80.03	42.12 RT	117.85
	PT	"80–E" 22+82.98	58.22 RT	118.29
	RP	"80–E" 22+41.49	57.50 RT	–





SHEET NO.	TOTAL SHEETS
F48	F52
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



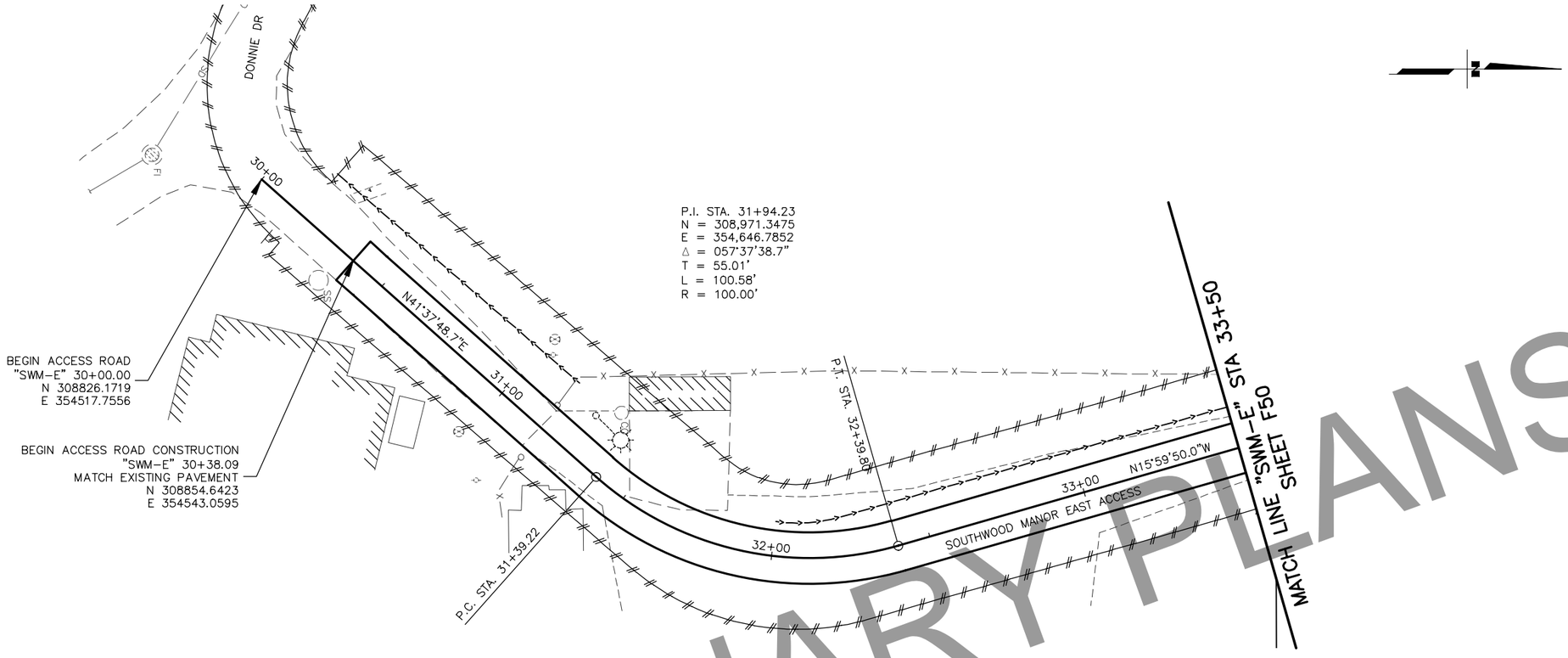
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
DISTRICT PROFESSIONAL ENGINEER

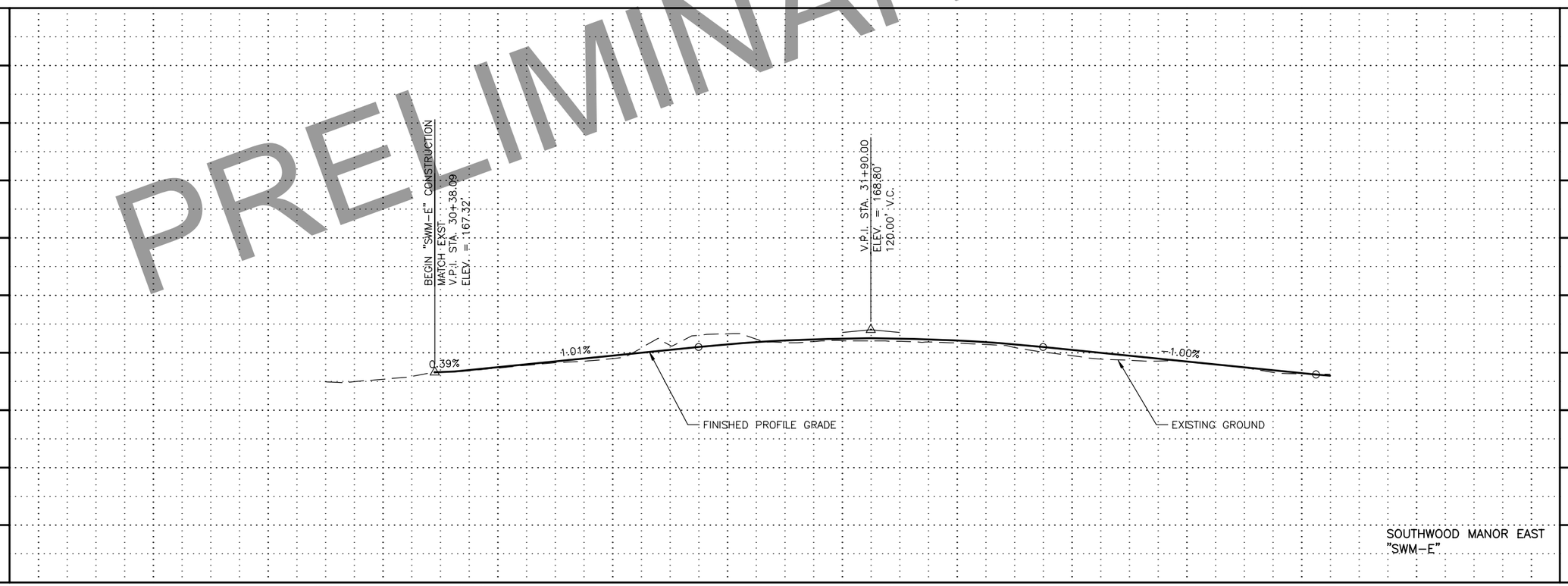
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

STREET APPROACH PLAN AND PROFILE N HEATHER MEADOWS LP 80TH AVENUE





SHEET NO.	TOTAL SHEETS
F49	F52
STATE	YEAR
ALASKA	2022

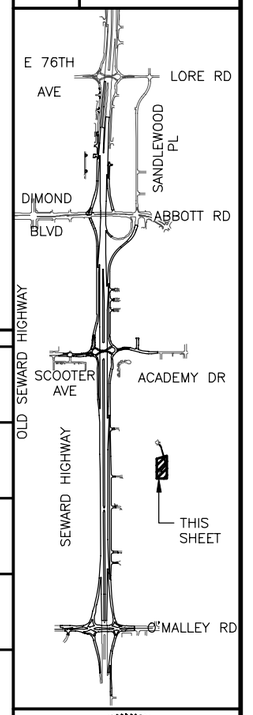
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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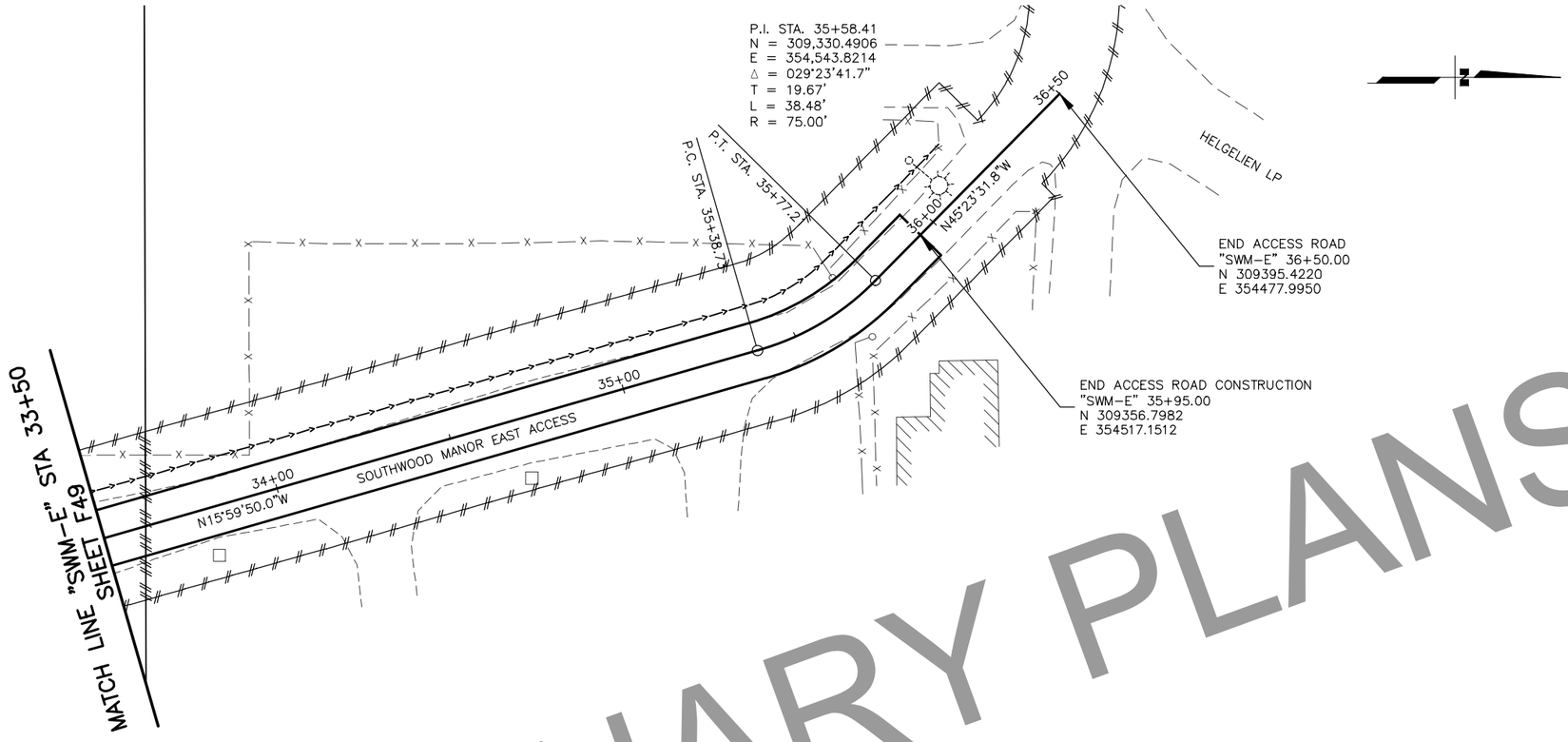
AECC628

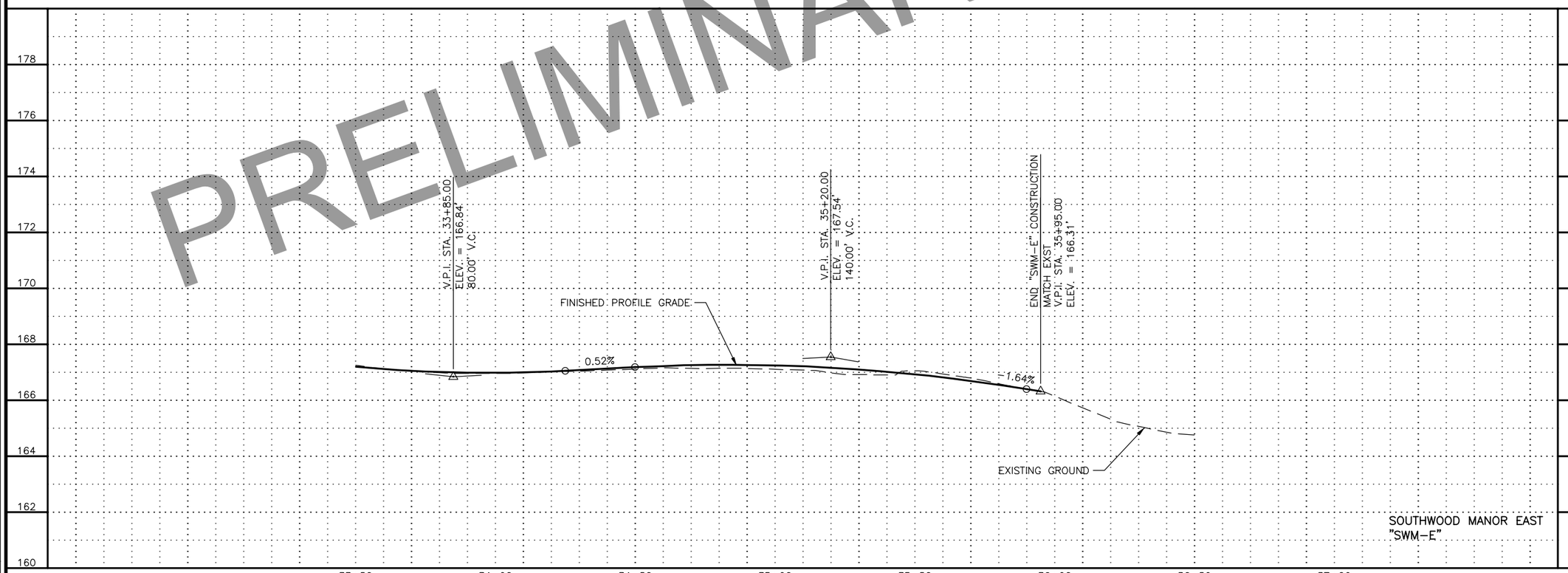
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

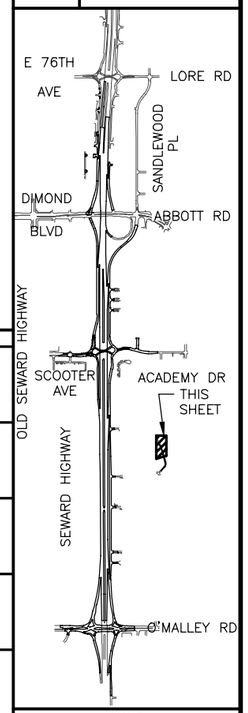
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SOUTHWOOD MANOR EAST ACCESS
PLAN AND PROFILE
30+00 TO 33+50

DATE/TIME	4/7/2022 11:25 AM
LAYOUT	F49
DESIGNED	JM
CHECKED	MR
DRAFTED	RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F49_PNP.DWG







SHEET NO.	TOTAL SHEETS
F50	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
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REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SOUTHWOOD MANOR EAST ACCESS PLAN AND PROFILE 33+50 TO 36+50

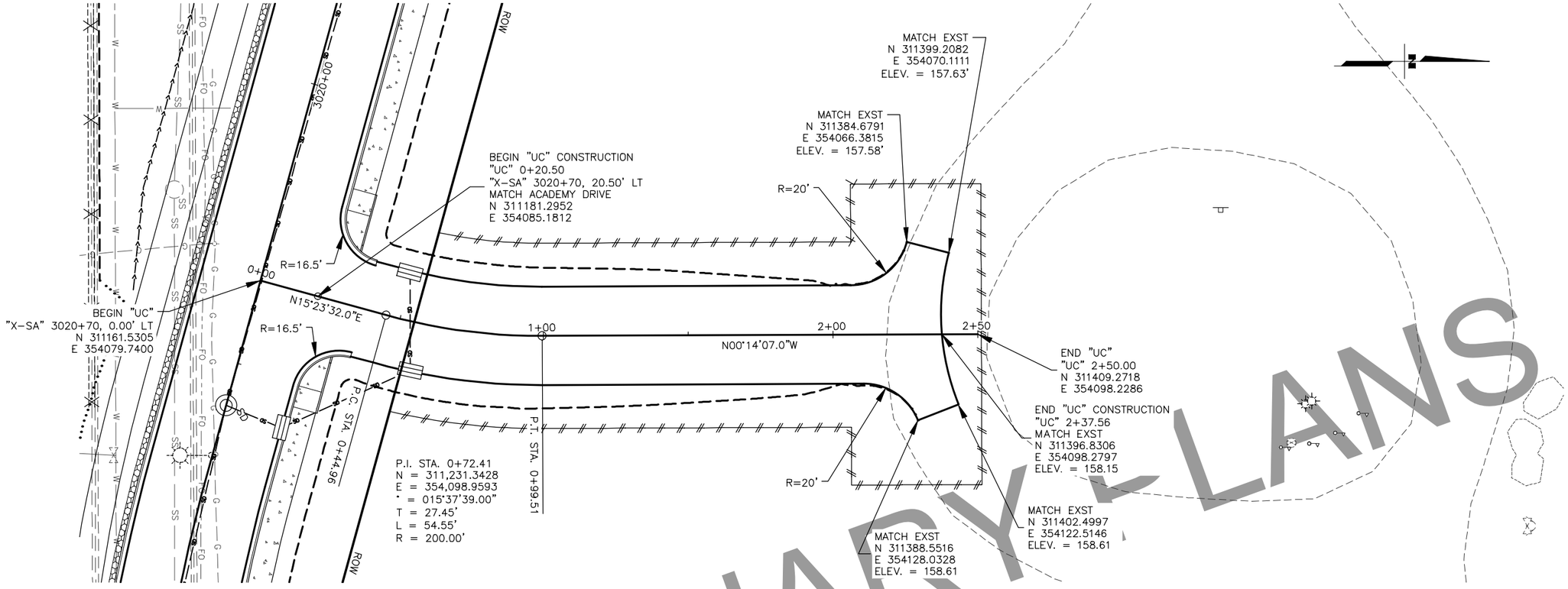
DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/7/2022 11:26 AM	F50	JM	MR	RM

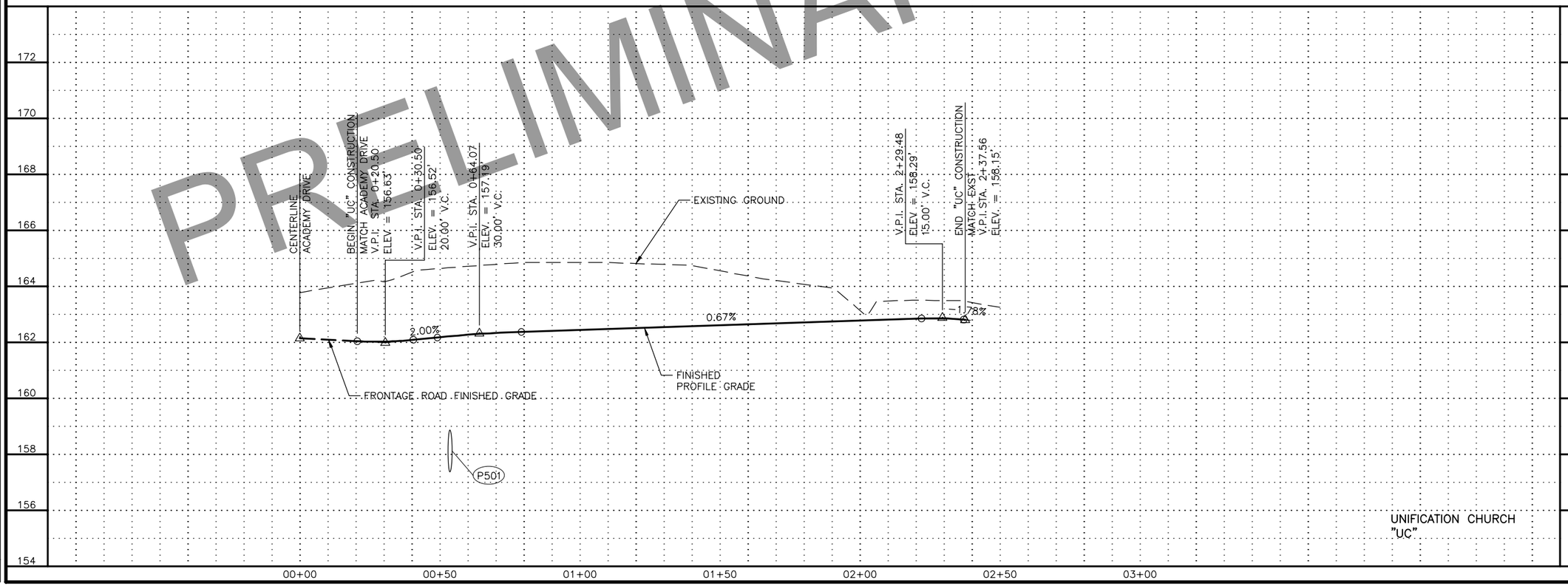
FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F50_PNP.DWG

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:26 AM	JM	RM	MR

LAYOUT: F51

FILE: C:_PW_WORKDIR\DEN001\RK0537776\D08763331\000122_F51_PNP.DWG



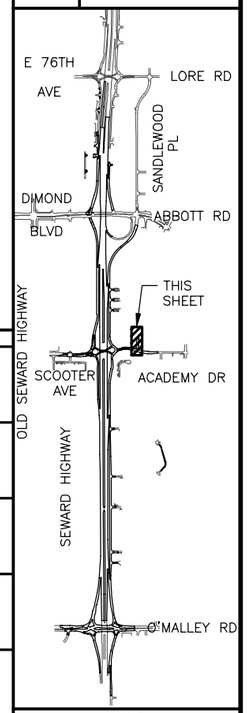


SHEET NO.	TOTAL SHEETS
F51	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

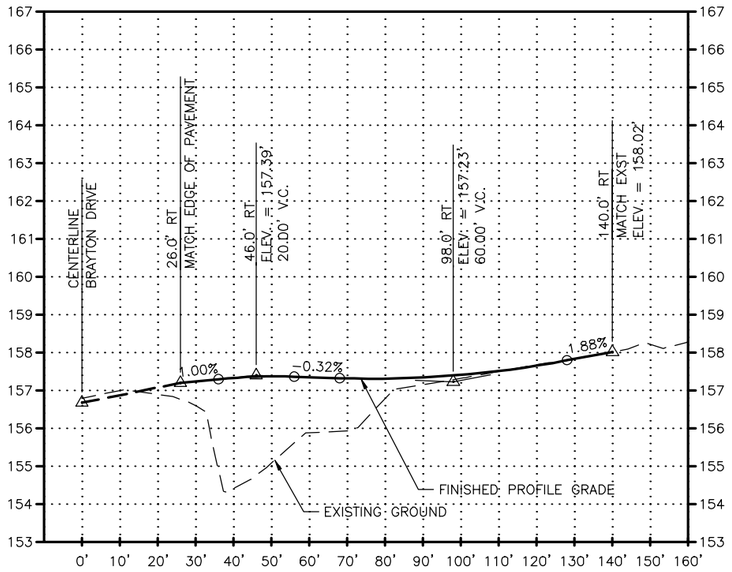


STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

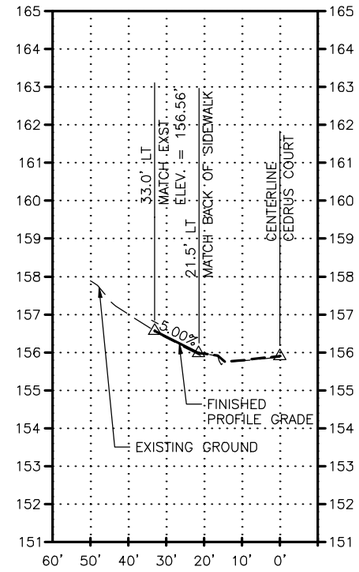
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

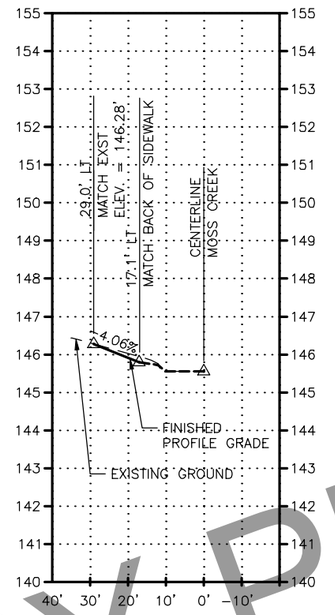
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
DRIVEWAY
PLAN AND PROFILE
UNIFICATION CHURCH
0+00 TO 2+50



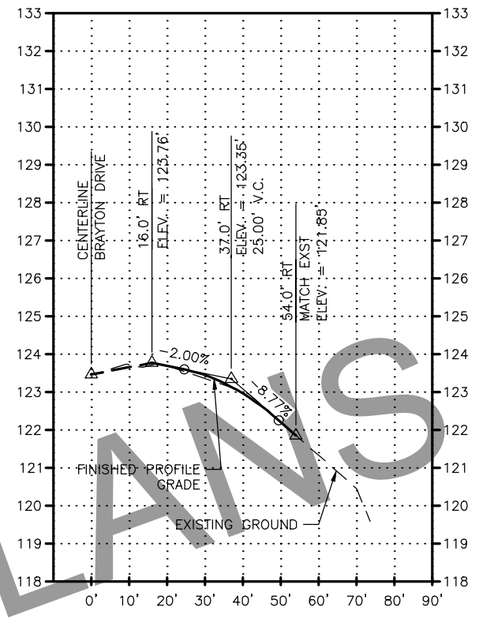
DRIVEWAY
"BD-2" STA. 5206+25 RT
CURB RETURN



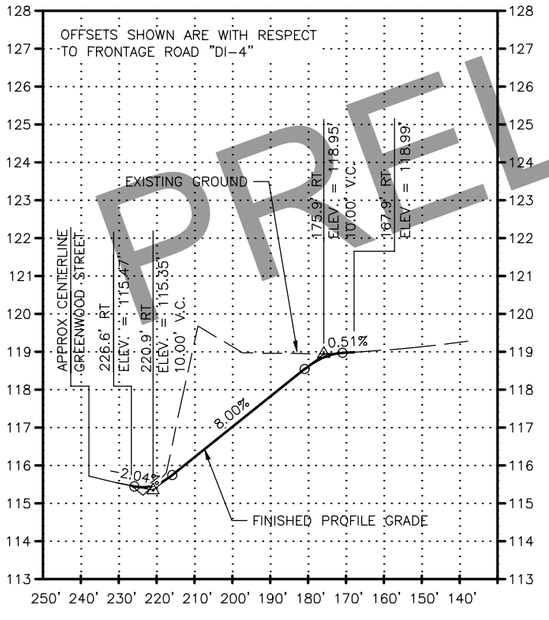
DRIVEWAY
"CC" STA. 12+99 LT
RESIDENTIAL DRIVEWAY



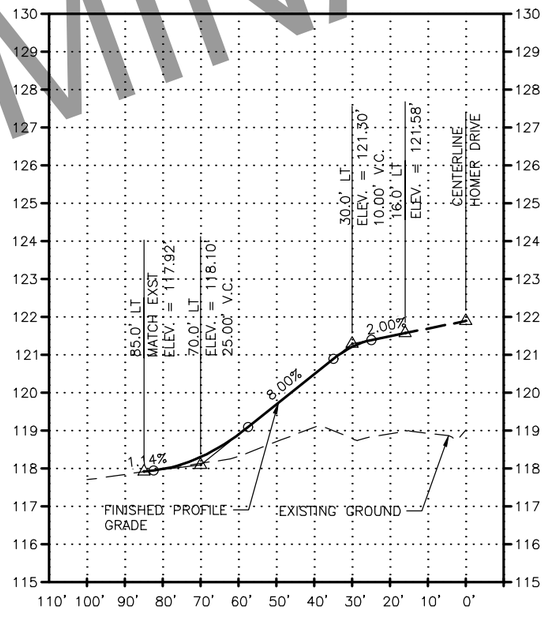
DRIVEWAY
"MC" STA. 18+90 LT
RESIDENTIAL DRIVEWAY



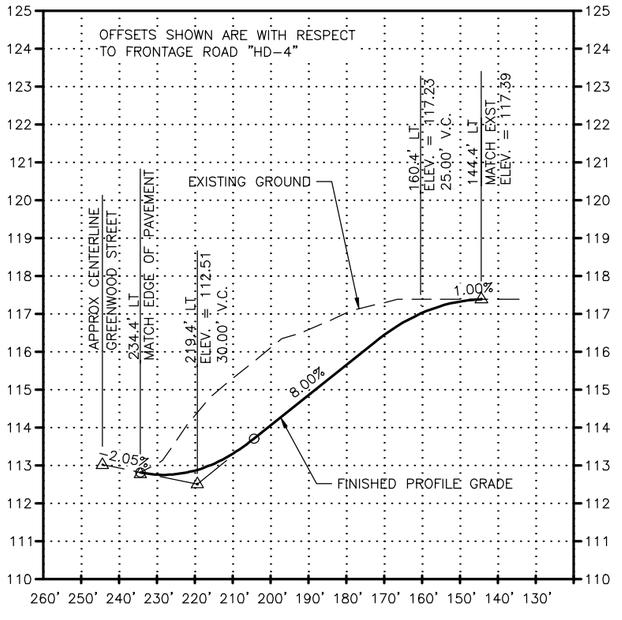
DRIVEWAY
"BD-4" STA. 5404+48 RT
CURB RETURN



DRIVEWAY
"DI-4" STA. 4408+76 LT
CURB RETURN



DRIVEWAY
"HD-4" STA. 6402+87 LT
CURB RETURN

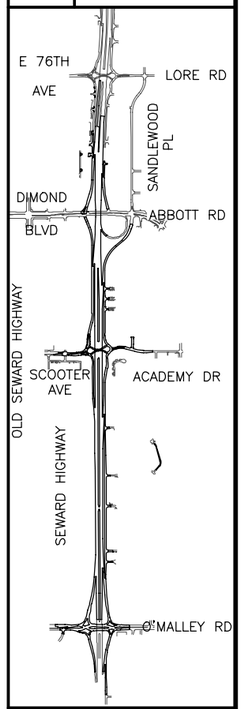


DRIVEWAY
"HD-4" STA. 6402+94 LT
CURB RETURN

SHEET NO.	TOTAL SHEETS
F52	F52
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

DRIVEWAY PROFILES

FILE [C:_PW_WORKDIR\DEN001\RK053776\D08763331\000172_F52_PNP.DWG | DATE/TIME 4/7/2022 11:27 AM | LAYOUT F52 | DESIGNED JM | CHECKED MR | DRAFTED RM

BEGIN "X-OM-WB" CONSTRUCTION
"X-OM-WB" 2501+30.00
MATCH EXISTING PAVEMENT
N 305864.3681
E 352625.2024

P.I. STA. 2502+46.46
N = 305,864.1911
E = 352,741.6602
Δ = 003°05'47.1"
T = 81.08'
L = 162.13'
R = 3,000.00'

P.C. STA. 2501+65.37

P.T. STA. 2503+27.50

O'MALLEY ROAD "X-OM-WB"

2500+00

S89°54'46.55"E

BEGIN "X-OM-WB"
"X-OM-WB" 2500+00.00
N 305864.5656
E 352495.2026

N86°59'26.33"E

P.C. STA. 2603+59.43

MATCH LINE "X-OM-WB" STA 2505+00
SHEET F103

2600+00

N89°50'03.10"E

O'MALLEY ROAD "X-OM-EB"

2605+00

MATCH LINE "X-OM-EB" STA 2605+00
SHEET F103

ROW

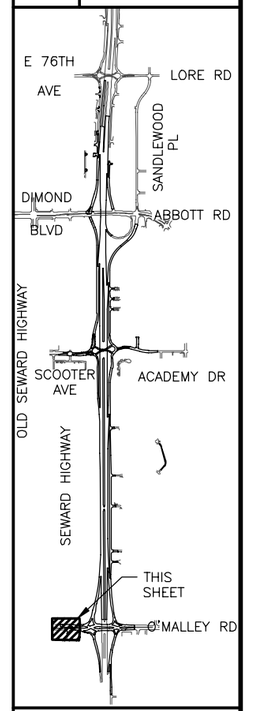
BEGIN "X-OM-EB"
"X-OM-EB" 2600+00.00
N 305806.4008
E 352495.3709

BEGIN "X-OM-EB" CONSTRUCTION
"X-OM-EB" 2602+15.00
MATCH EXISTING PAVEMENT
N 305807.0230
E 352710.3663

O'MALLEY CENTRE DRIVE

P.I. STA. 2604+53.77
N = 305,807.7140
E = 352,949.1394
Δ = 005°24'05.2"
T = 94.34'
L = 188.55'
R = 2,000.00'

P205 S205 P189 S189 S190 P190 S196 P195 S195 P194 S194 P180 S180 P009



SHEET NO.	TOTAL SHEETS
F101	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

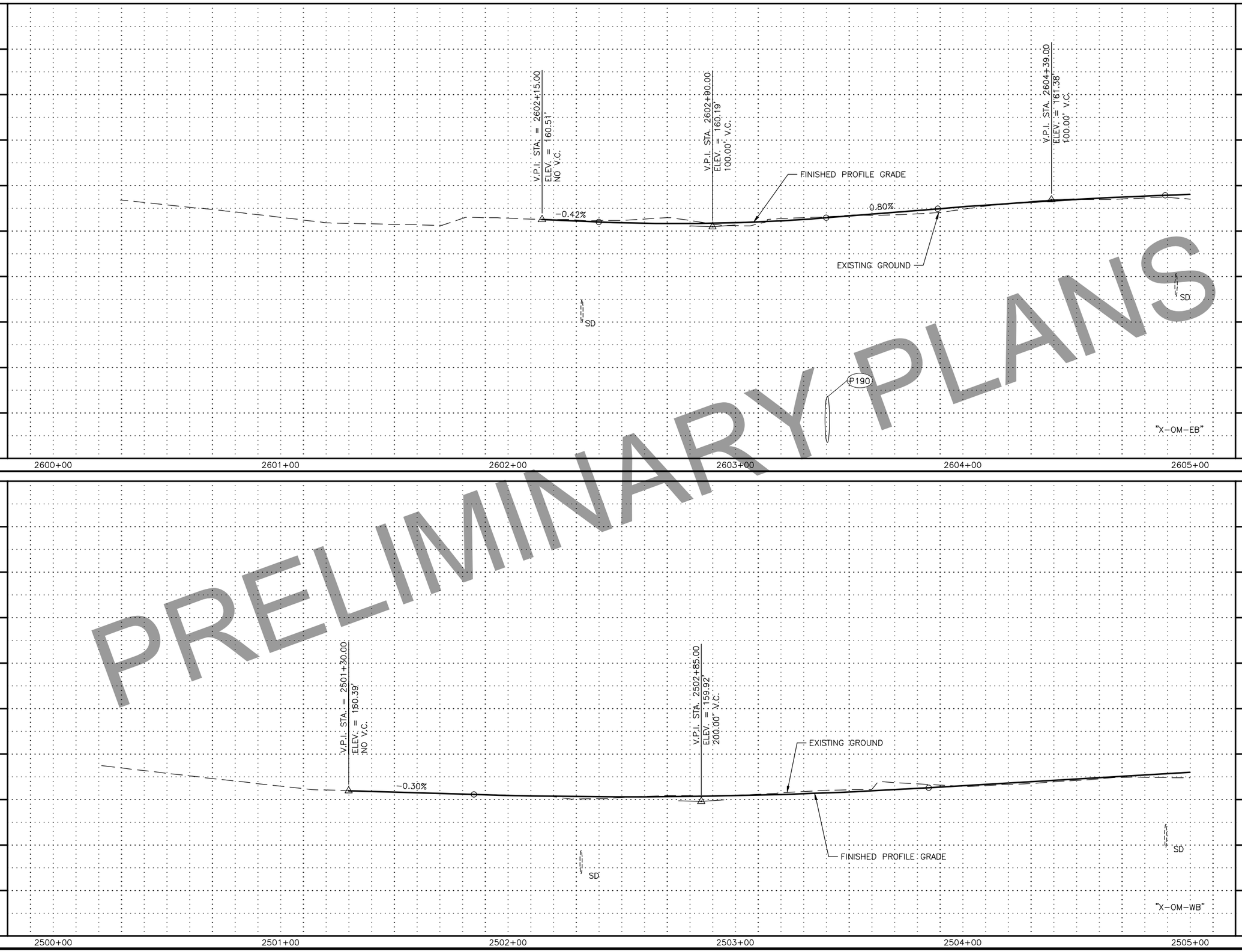
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION
"X-OM-WB" "X-OM-EB"
PLAN AND PLAN
2600+00 TO 2605+00
2500+00 TO 2505+00

DATE/TIME 4/7/2022 11:27 AM | LAYOUT F101 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE [C:\PW_WORKDIR\DEN001\RK0537776\D08763331\00012_F101_PNP.DWG]



SHEET NO.	TOTAL SHEETS
F102	F110
STATE	YEAR
ALASKA	2022

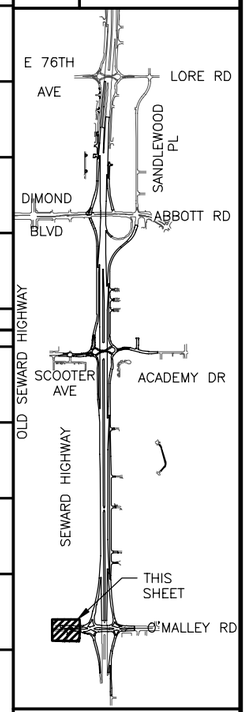
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"X-OM-WB" "X-OM-EB"
PROFILE AND PROFILE
2602+00 TO 2605+00
2501+00 TO 2505+00

DESIGNED JM | DRAFTED RM | CHECKED MR | LAYOUT F102 | DATE/TIME 4/7/2022 11:27 AM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\000012_F102_PNP.DWG

DATE/TIME	4/7/2022 11:28 AM
LAYOUT	F103
DESIGNED	JM
CHECKED	MR
DRAFTED	RM

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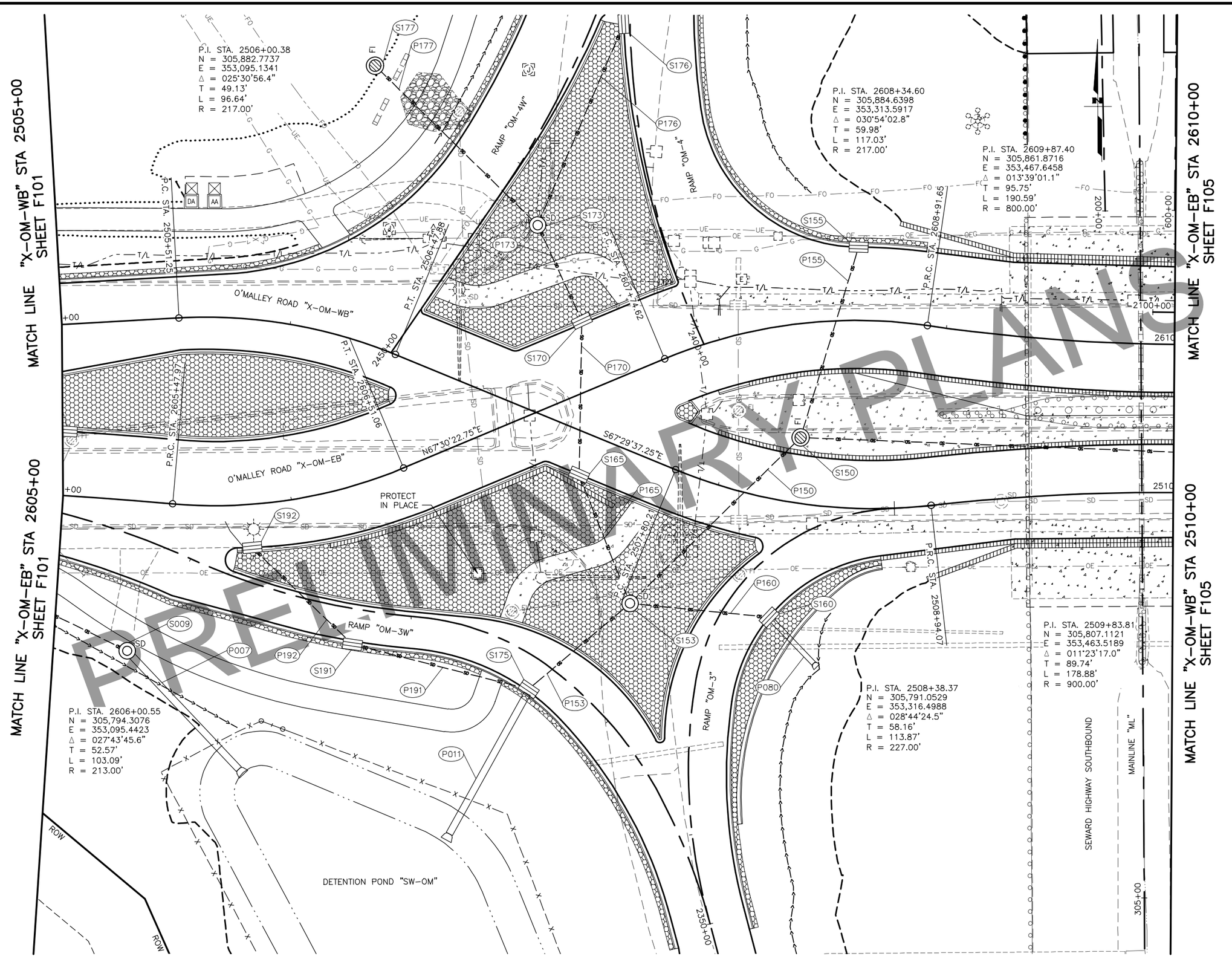
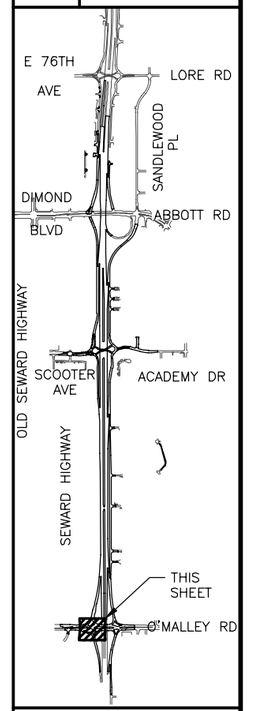


SHEET NO.	TOTAL SHEETS
F103	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

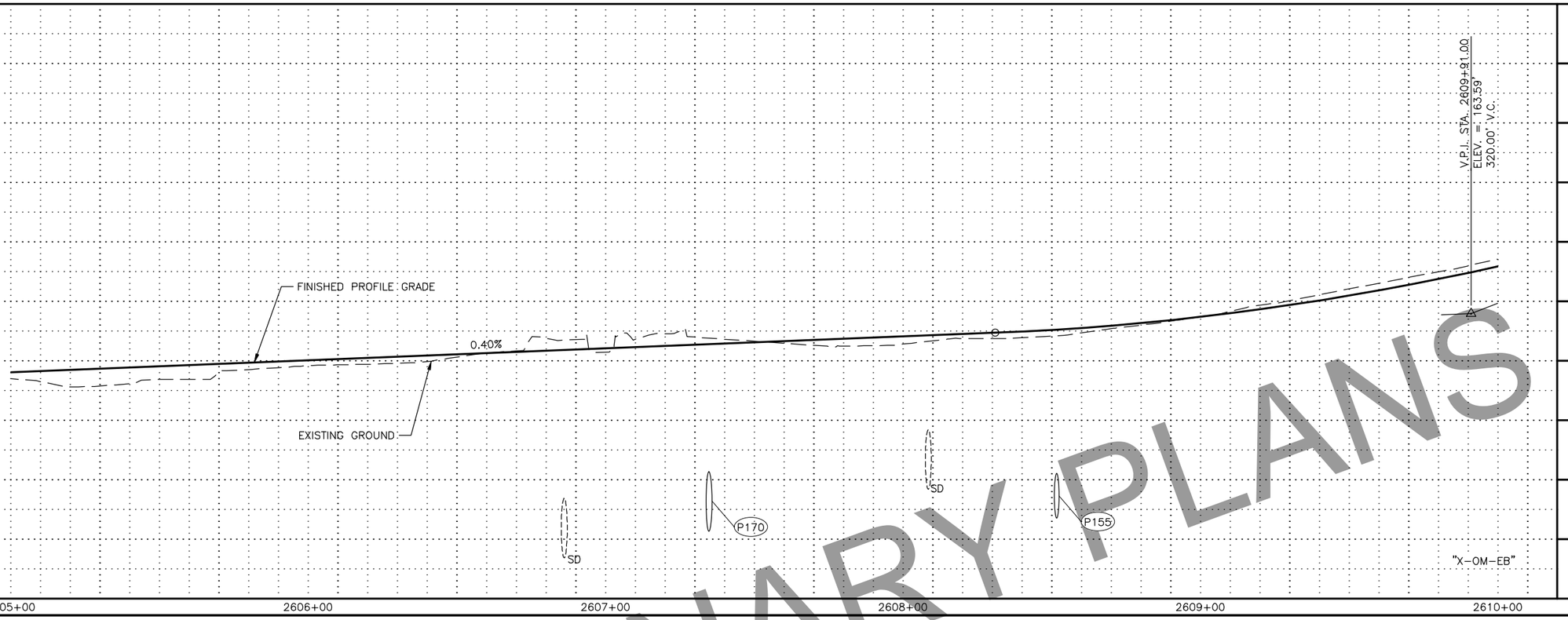


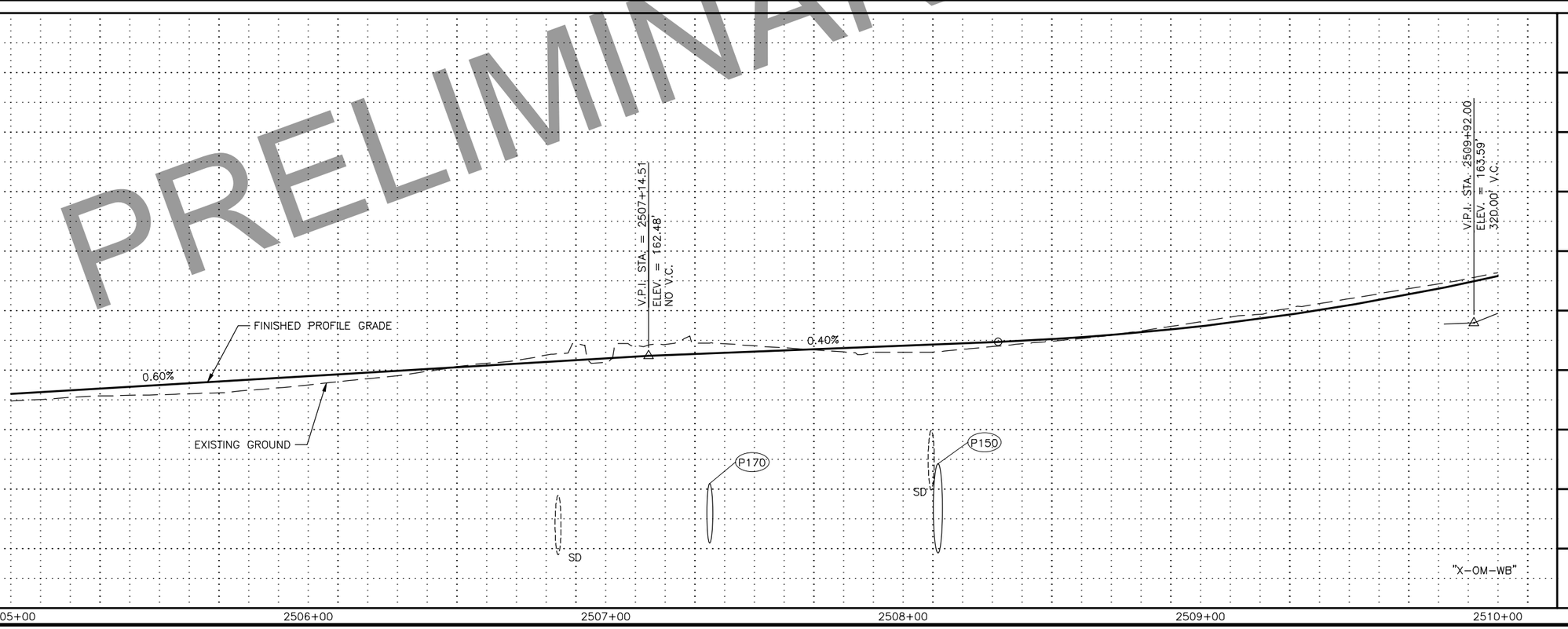
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
"X-OM-WB" "X-OM-EB"
PLAN AND PLAN
2605+00 TO 2610+00
2505+00 TO 2510+00





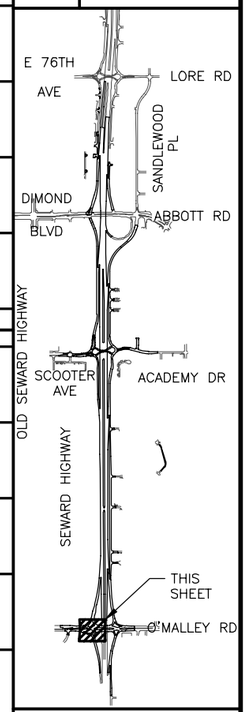
SHEET NO.	TOTAL SHEETS
F104	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
"X-OM-WB" "X-OM-EB"
PROFILE AND PROFILE
2605+00 TO 2610+00
2505+00 TO 2510+00

DESIGNED JM | DRAFTED RM | CHECKED MR | LAYOUT F104 | DATE/TIME 4/7/2022 11:28 AM
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F104_PNP.DWG

MATCH LINE "X-OM-EB" STA 2610+00
SHEET F103

MATCH LINE "X-OM-WB" STA 2510+00
SHEET F103

MATCH LINE "X-OM-WB" STA 2514+00
SHEET F107

MATCH LINE "X-OM-EB" STA 2614+00
SHEET F107

P.I. STA. 2611+25.24
N = 305,874.5505
E = 353,605.8089
Δ = 025°14'35.5"
T = 42.99'
L = 84.59'
R = 192.00'

P.I. STA. 2513+39.54
N = 305,868.9123
E = 353,807.7782
Δ = 023°48'53.4"
T = 45.76'
L = 90.20'
R = 217.00'

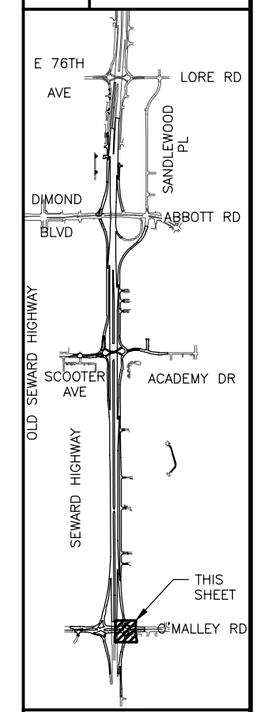
P.I. STA. 2511+23.60
N = 305,794.5006
E = 353,603.3338
Δ = 025°09'15.3"
T = 50.65'
L = 99.66'
R = 227.00'

P.I. STA. 2613+42.93
N = 305,799.6180
E = 353,811.6841
Δ = 027°39'08.7"
T = 53.90'
L = 105.70'
R = 219.00'

RAMP "OM-1"
RAMP "OM-1E"
RAMP "OM-2"
RAMP "OM-2E"
O'MALLEY ROAD "X-OM-WB"
O'MALLEY ROAD "X-OM-EB"
S70°00'00.00"E
N70°00'00.00"E
P.C. STA. 2610+82.25
P.T. STA. 2611+66.84
P.C. STA. 2512+69.04
P.T. STA. 2513+83.97
P.R.C. STA. 2510+72.96
P.T. STA. 2511+72.62
P.C. STA. 2612+89.04
P.R.C. STA. 2613+94.73
2250+00
ROW

SHEET NO.	TOTAL SHEETS
F105	F110
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



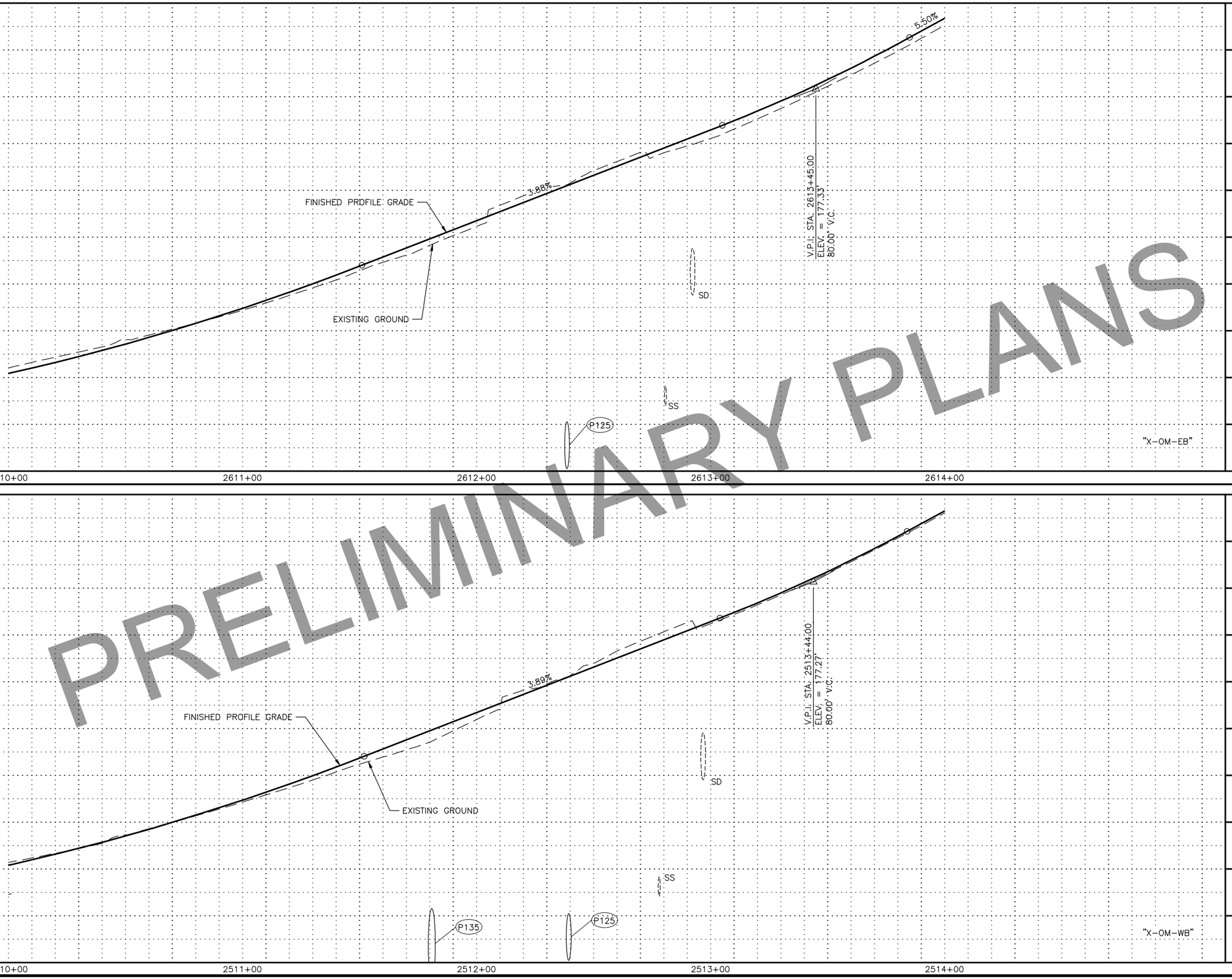
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
CERTIFIED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
"X-OM-EB" "X-OM-WB"
PLAN AND PLAN
2610+00 TO 2614+00
2510+00 TO 2514+00

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F105_PNP.DWG | DATE/TIME 4/7/2022 11:28 AM | LAYOUT F105 | DESIGNED JM | CHECKED MR | DRAFTED RM

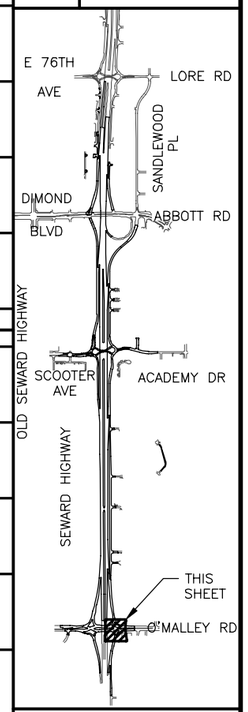


SHEET NO.	TOTAL SHEETS
F106	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

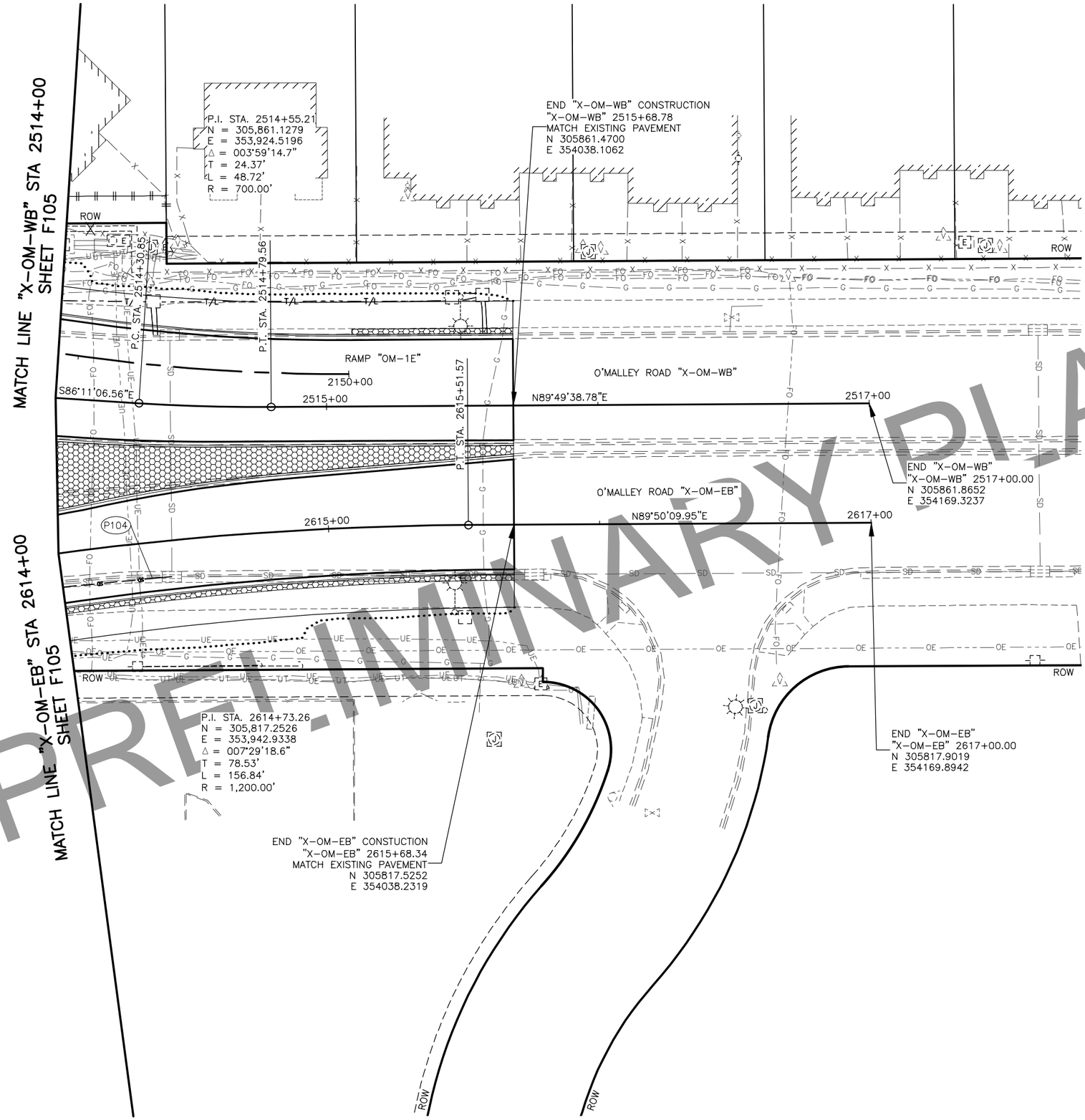
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
"X-OM-WB" "X-OM-EB"
PROFILE AND PROFILE
2610+00 TO 2614+00
2510+00 TO 2514+00

DATE/TIME 4/7/2022 11:28 AM | LAYOUT F106 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\000012_F106_PNP.DWG

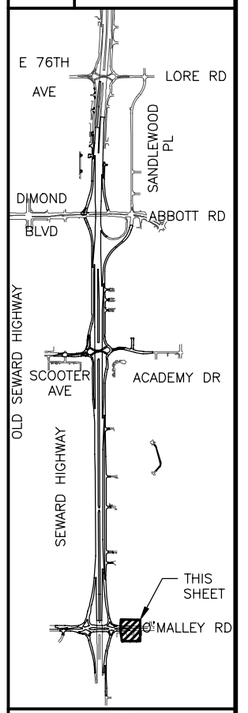


SHEET NO.	TOTAL SHEETS
F107	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

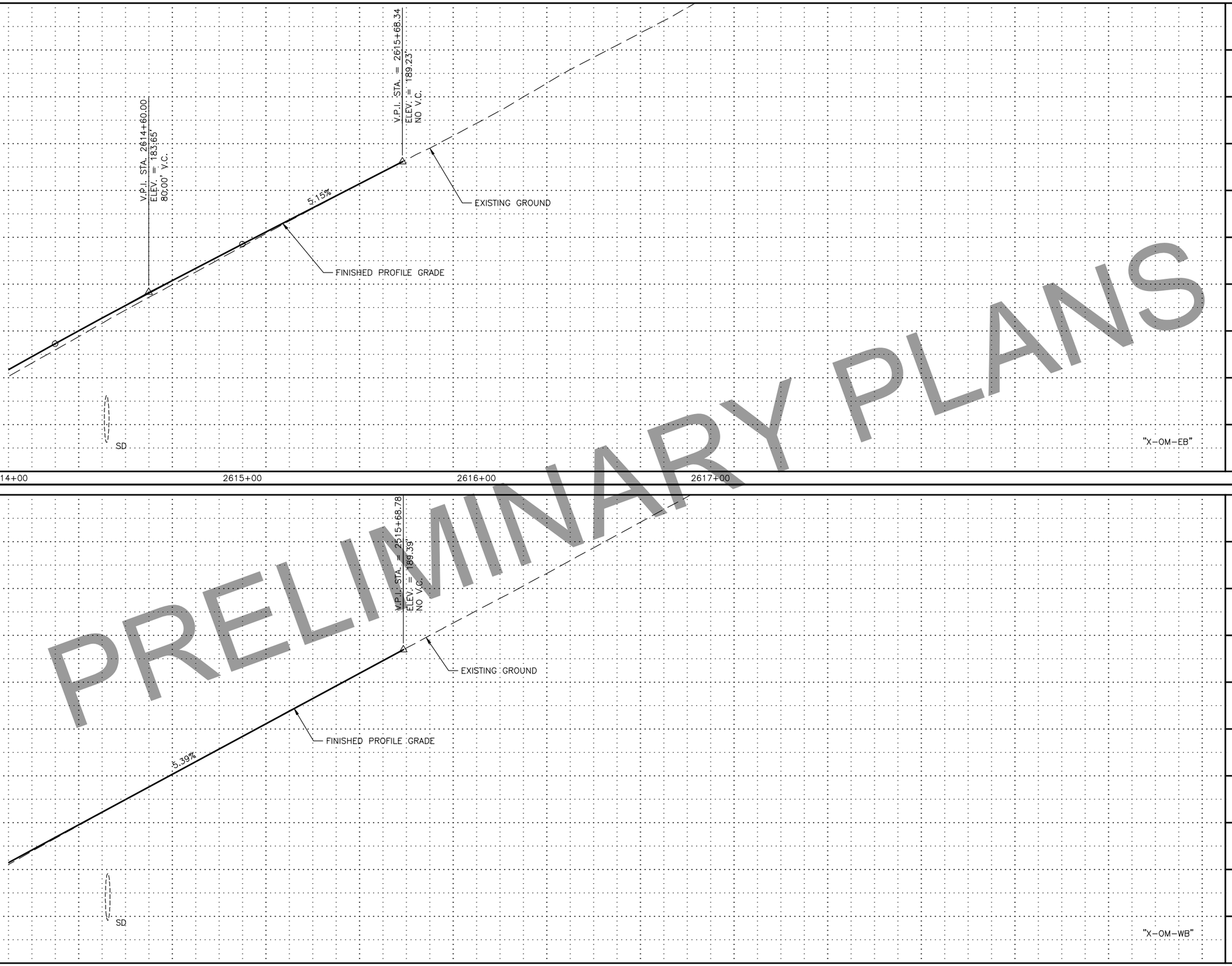
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
"X-OM-WB" "X-OM-EB"
PLAN AND PLAN
2614+00 TO 2617+00
2514+00 TO 2517+00

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/7/2022 11:28 AM	F107	JM	MR	RM

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F107_PNP.DWG



SHEET NO.	TOTAL SHEETS
F108	F110
STATE	YEAR
ALASKA	2022

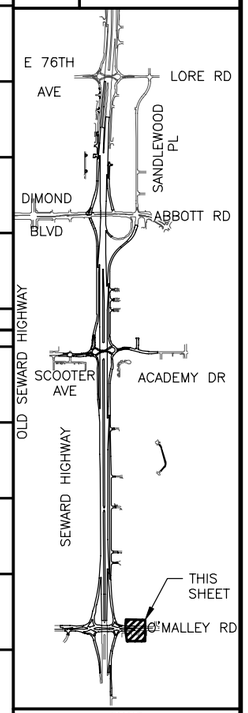
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

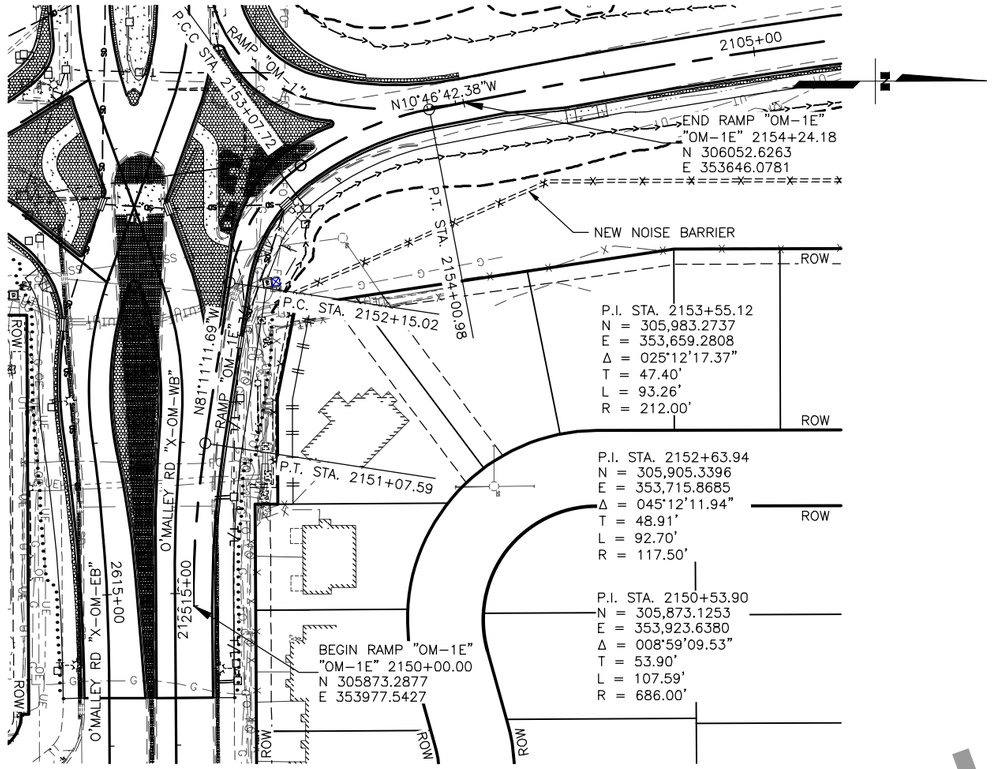
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

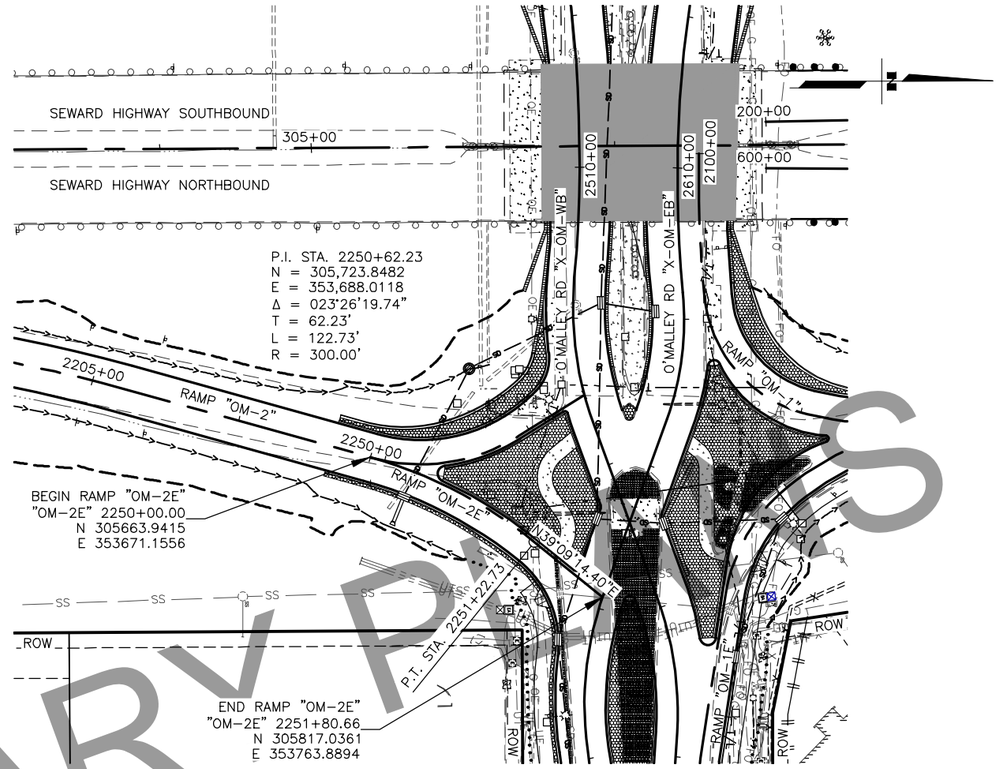
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION
"X-OM-WB" "X-OM-EB"
PROFILE AND PROFILE
2614+00 TO 2617+00
2514+00 TO 2517+00

DATE/TIME 4/7/2022 11:29 AM | LAYOUT F108 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F108_PNP.DWG

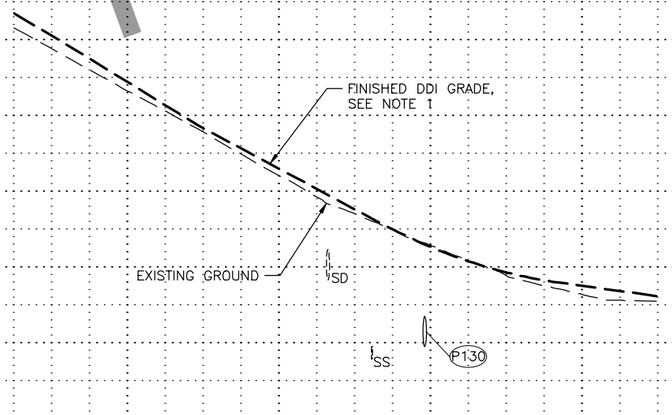


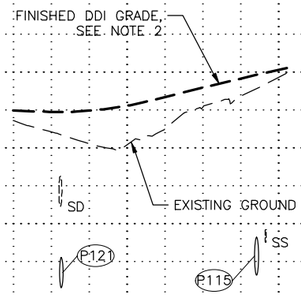


PRELIMINARY PLANS

NOTES:

1. FROM "OM-1E" 2150+00.00 TO "OM-1E" 2154+24.18, REFER TO G SHEETS FOR O'MALEY ROAD DDI GRADING PLAN.
2. FROM "OM-2E" 2250+00.00 TO "OM-2E" 2251+80.66, REFER TO G SHEETS FOR O'MALEY ROAD DDI GRADING PLAN.



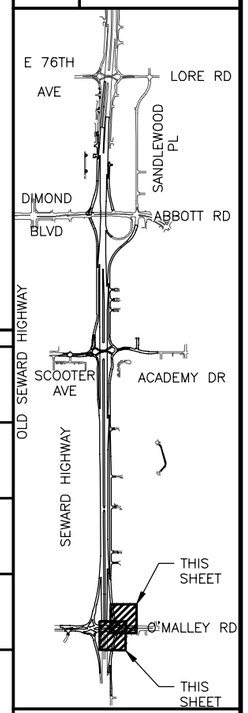


SHEET NO.	TOTAL SHEETS
F109	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
RAMP "OM-1E" "OM-2E"
PLAN AND PROFILE
2150+00 TO 2154+80
2250+00 TO 2251+81

DATE/TIME 4/7/2022 11:29 AM | LAYOUT F109 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F109_PNP.DWG

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:29 AM	JM	RM	MR

LAYOUT: F110

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F110_PNP.DWG

P.I. STA. 2351+65.56
N = 305,746.0396
E = 353,183.0913
Δ = 031°44'44.10"
T = 32.42'
L = 63.16'
R = 114.00'

P.I. STA. 2353+71.87
N = 305,804.8007
E = 352,985.4960
Δ = 022°55'14.24"
T = 70.96'
L = 140.01'
R = 350.00'

P.I. STA. 2350+96.80
N = 305,703.4303
E = 353,238.5644
Δ = 024°54'02.20"
T = 37.53'
L = 73.88'
R = 170.00'

P.I. STA. 2352+52.43
N = 305,754.9596
E = 353,095.0086
Δ = 018°41'19.02"
T = 49.37'
L = 97.85'
R = 300.00'

P.I. STA. 2350+29.76
N = 305,643.7798
E = 353,269.7109
Δ = 012°57'37.03"
T = 29.76'
L = 59.26'
R = 262.00'

END RAMP "OM-3W"
"OM-3W" 2354+40.93
N 305806.7207
E 352914.5661

P.R.C. STA. 2353+00.92

P.C. STA. 2352+03.06
P.T. STA. 2351+96.31

P.C.C STA. 2350+59.26

P.C.C STA. 2351+33.15

DETENTION POND
"SW-OM"

N41°13'02.86"W

BEGIN RAMP "OM-3W"
"OM-3W" 2350+00.00
N 305614.9830
E 353277.2178

RAMP "OM-3W"

O'MALLEY RD
"X-OM-WB"

O'MALLEY RD
"X-OM-EB"

RAMP "OM-3"

ROW

2305+00
2350+00
2400+00
2450+00
2505+00
2605+00

BEGIN RAMP "OM-4W"
"OM-4W" 2450+00.00
N 305864.7531
E 353138.6001

N34°50'07.86"E

P.C. STA. 2450+82.15

P.T. STA. 2452+31.05

RAMP "OM-4W"

RAMP "OM-4"

N13°30'26.02"E

END RAMP "OM-4W"
"OM-4W" 2452+60.60
N 306095.9746
E 353253.0454

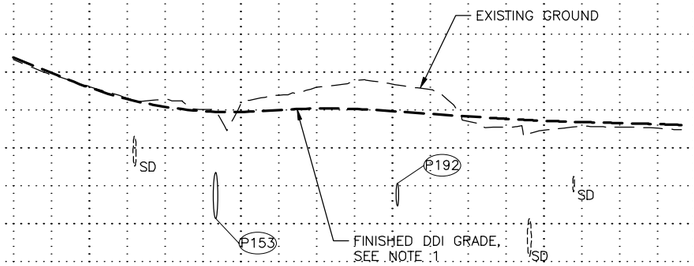
P.I. STA. 2451+57.47
N = 305,994.0043
E = 353,228.5510
Δ = 021°19'41.9"
T = 75.32'
L = 148.90'
R = 400.00'

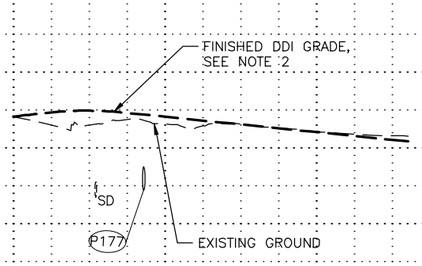
SEWARD HIGHWAY SOUTHBOUND
SEWARD HIGHWAY NORTHBOUND

2510+00
2610+00
2100+00
200+00
310+00
600+00

NOTES:

1. FROM "OM-3W" 2350+00.00 TO "OM-3W" 2354+40.93, REFER TO G SHEETS FOR O'MALLEY ROAD DDI GRADING PLAN.
2. FROM "OM-4W" 2450+00.00 TO "OM-4W" 2452+60.60, REFER TO G SHEETS FOR O'MALLEY ROAD DDI GRADING PLAN.





190 180 170 160 150

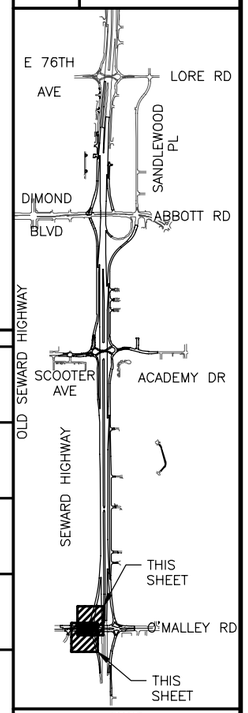
2350+00 2351+00 2352+00 2353+00 2354+00 2355+00

2450+00 2451+00 2452+00 2453+00

SHEET NO.	TOTAL SHEETS
F110	F110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
RAMP "OM-3W" "OM-4W"
PLAN AND PROFILE
2350+00 TO 2354+41
2450+00 TO 2452+61

BEGIN "X-SA"
"X-SA" 3005+65.65
MATCH EXISTING PAVEMENT
N 311069.0668
E 352590.5393

ROW

SCOOTER AVENUE "X-SA"

+00 N89°49'53.2"E

3010

P.C. STA. 3009+53.06

S660 P660 S670 P670 S665 P039 S645 P645 P665 S039 P038 P037

DETENTION POND "SW-SA"

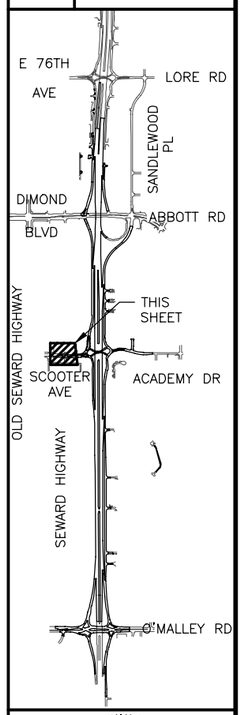
NEW NOISE BARRIER

MATCH LINE "X-SA" STA 3010+00
SHEET F203

SHEET NO.	TOTAL SHEETS
F201	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVENUE "X-SA"
PLAN
3005+00 TO 3010+00

DATE/TIME 4/7/2022 11:29 AM | LAYOUT F201 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D08776331\00012_F201_PNP.DWG

FILE	DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
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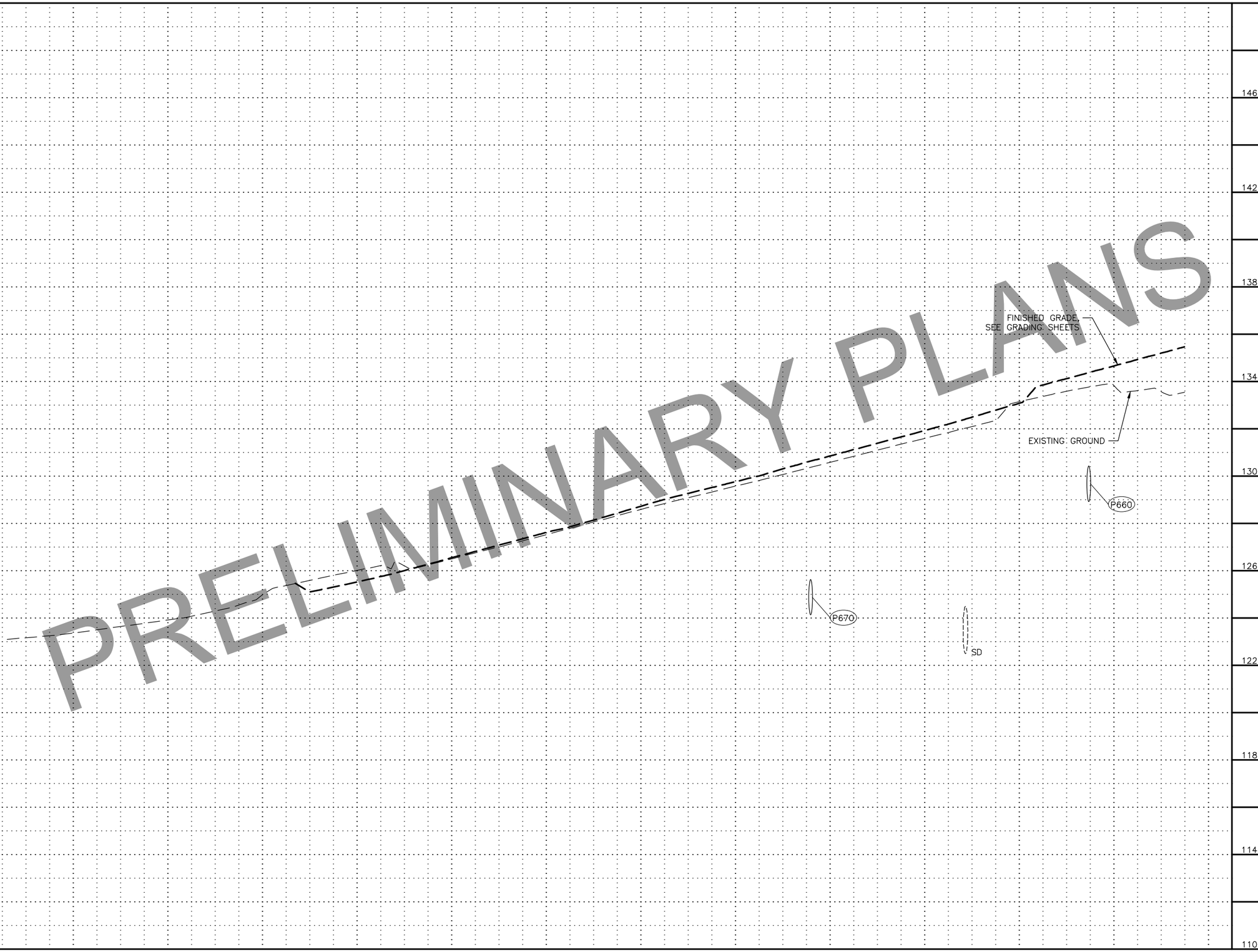
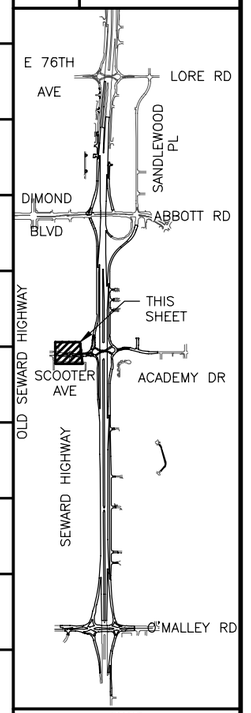


SHEET NO.	TOTAL SHEETS
F202	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE "X-SA" PROFILE
3005+00 TO 3010+00

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:30 AM	JM	RM	MR

LAYOUT: F203

FILE: C:\PW_WORKDIR\DEN001\RC053776\D08763311\00012_F203_PNP.DWG

MATCH LINE "X-SA" STA 3010+00
SHEET F201

MATCH LINE "X-SA" STA 3015+00
SHEET F205

ROW

P.I. STA. 3010+14.77
N = 311,078.3881
E = 353,039.6279
Δ = 014°04'13.8"
T = 61.70'
L = 122.79'
R = 500.00'

SCOOTER AVENUE "X-SA"
N75°45'39.4"E

P.I. STA. 3011+92.28
N = 311,122.2043
E = 353,212.2929
Δ = 007°18'04.3"
T = 38.28'
L = 76.46'
R = 600.00'

DETENTION POND "SW-SA"

RAMP "SA-4"

RAMP "SA-3"

RETAINING WALL H3

RETAINING WALL S2

RETAINING WALL S1

RETAINING WALL H2

"X-SA" 3014+31.58
"ML" 360+25.43
N 311151.1217
E 353449.9365

P.I. STA. 3014+69.91
N = 311,155.7517
E = 353,487.9855
Δ = 003°49'07.0"
T = 20.00'
L = 39.99'
R = 600.00'

N83°03'43.7"E

SEWARD HIGHWAY SOUTHBOUND

MAINLINE "ML"

SEWARD HIGHWAY NORTHBOUND

P601 P606 P590 P635 P636 P639 P640 P632 P631 P094 P035 P036 P066 P582 P577 P595

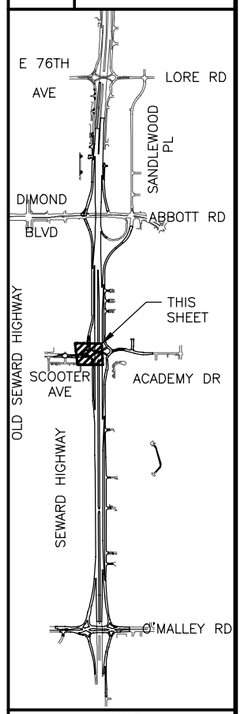
S606 S601 S635 S636 S632 S639 S640 S631 S590 S585 S582 S595

PRELIMINARY PLANS

SHEET NO.	TOTAL SHEETS
F203	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVENUE "X-SA" PLAN 3010+00 TO 3015+00

SEWARD HIGHWAY MAINLINE

FINISHED GRADE,
SEE GRADING SHEETS

EXISTING GROUND

P636

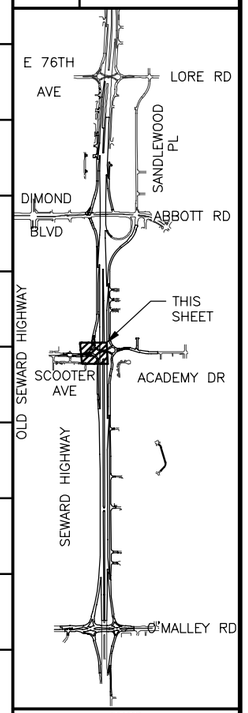
166
162
158
154
150
146
142
138
134
130

3010+00
3011+00
3012+00
3013+00
3014+00
3015+00

SHEET NO.	TOTAL SHEETS
F204	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 782-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

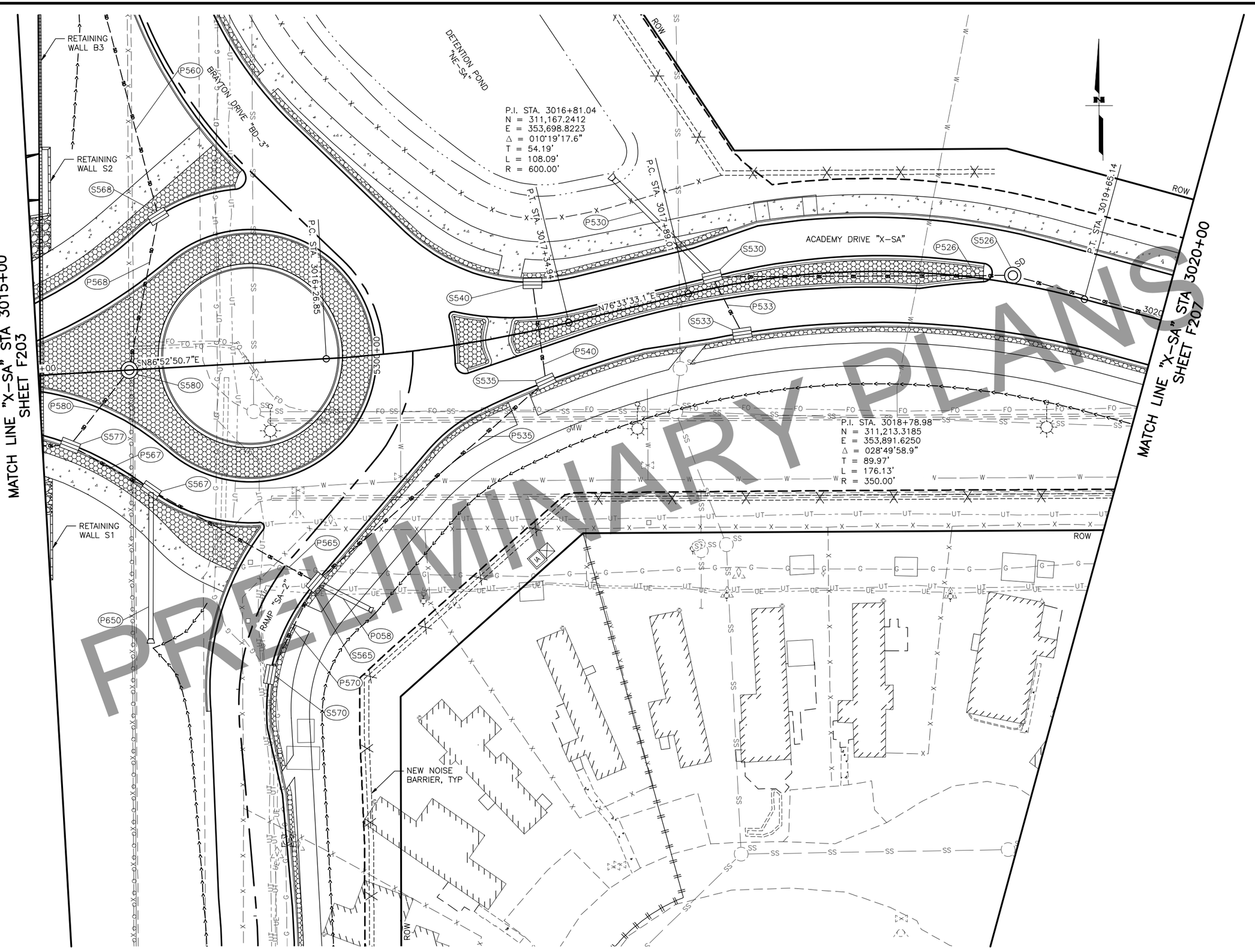
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE "X-SA" PROFILE
3010+00 TO 3015+00

FILE: C:\PW_WORKDIR\DEN001\CH2MHILL_BP0771319\D08763331\00012_F204_PNP.DWG
DATE/TIME: 4/8/2022 7:47 AM
LAYOUT: F204
DESIGNED: JM
CHECKED: MR
DRAFTED: RM

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:30 AM	JM	RM	MR

LAYOUT: F205

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F205_PNP.DWG

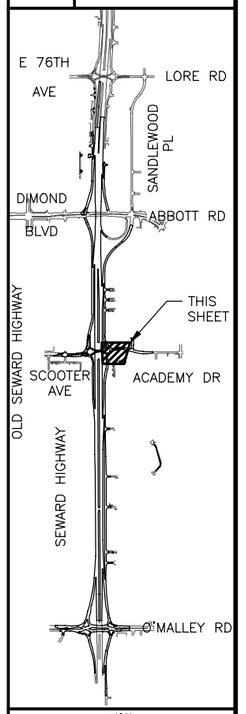


SHEET NO.	TOTAL SHEETS
F205	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ACADEMY DRIVE "X-SA" PLAN 3015+00 TO 3020+00

EXISTING GROUND

V.P.I. STA = 13019+20.50
ELEV = 152.68'
NO V.C.

3.00%

FINISHED GRADE,
SEE GRADING SHEETS

P526

P526

P533

P540

SS

SS

P568

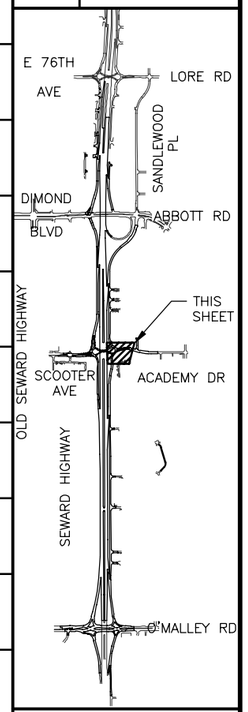
166
162
158
154
150
146
142
138
134
130

3015+00
3016+00
3017+00
3018+00
3019+00
3020+00

SHEET NO.	TOTAL SHEETS
F206	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 782-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE "X-SA" PROFILE
3015+00 TO 3020+00

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_BP0771319\D08763331\00012_F206_PNP.DWG
DATE/TIME 4/8/2022 8:01 AM
LAYOUT F206
DESIGNED JM
CHECKED MR
DRAFTED RM

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/7/2022 11:30 AM	JM	RM	MR

LAYOUT: F207

FILE: C:\PW_WORKDIR\DEN001\RK053776\D0876331\00012_F207_PNP.DWG

MATCH LINE "X-SA" STA 3020+00
SHEET F205

P.I. STA. 3022+20.13
N = 311,121.7563
E = 354,224.2160
Δ = 015°32'22.8"
T = 81.87'
L = 162.73'
R = 600.00'

P.C. STA. 3021+38.26
P.T. STA. 3023+00.99

S74°36'28.0"E

ACADEMY DRIVE "X-SA"
N89°51'09.1"E

ROW

NEW NOISE BARRIER

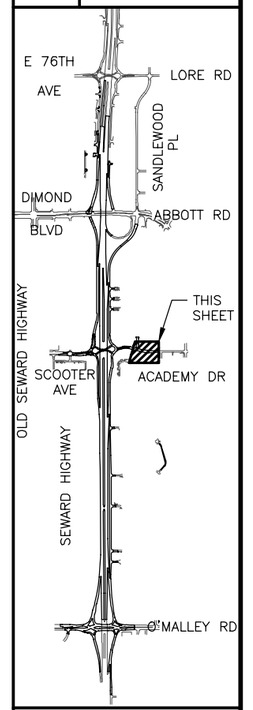
END "X-SA" CONSTRUCTION
"X-SA" 3024+80.00
MATCH EXISTING PAVEMENT
N 311122.4277
E 354485.0887

P501 S501 S505 P505 S510 P524 S524 P510 P522 S522 P520 S520 P500 S500

SHEET NO.	TOTAL SHEETS
F207	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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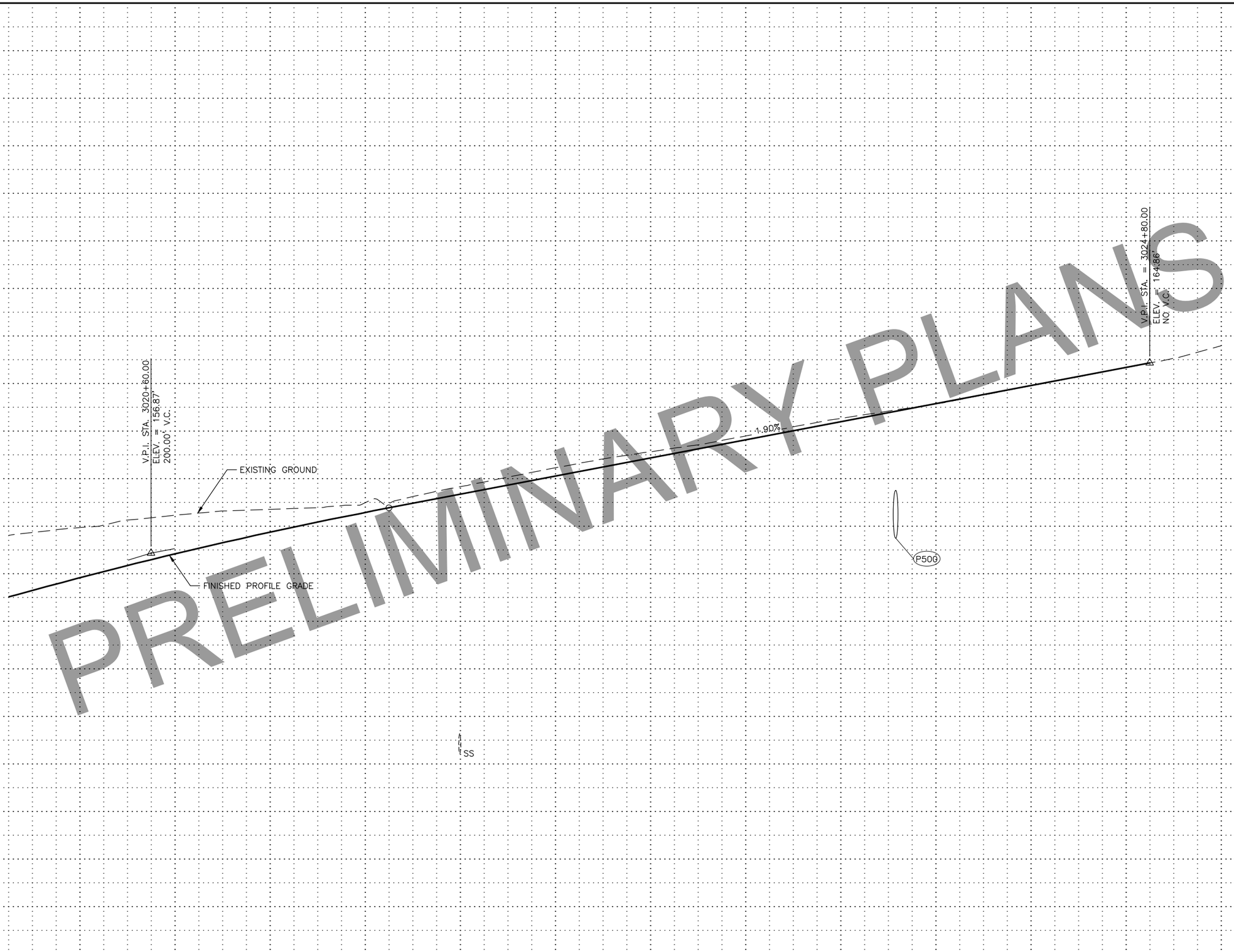
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ACADEMY DRIVE "X-SA" PLAN 3020+00 TO 3025+00

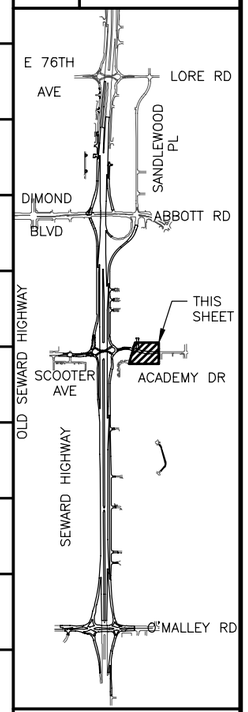


SHEET NO.	TOTAL SHEETS
F208	F208
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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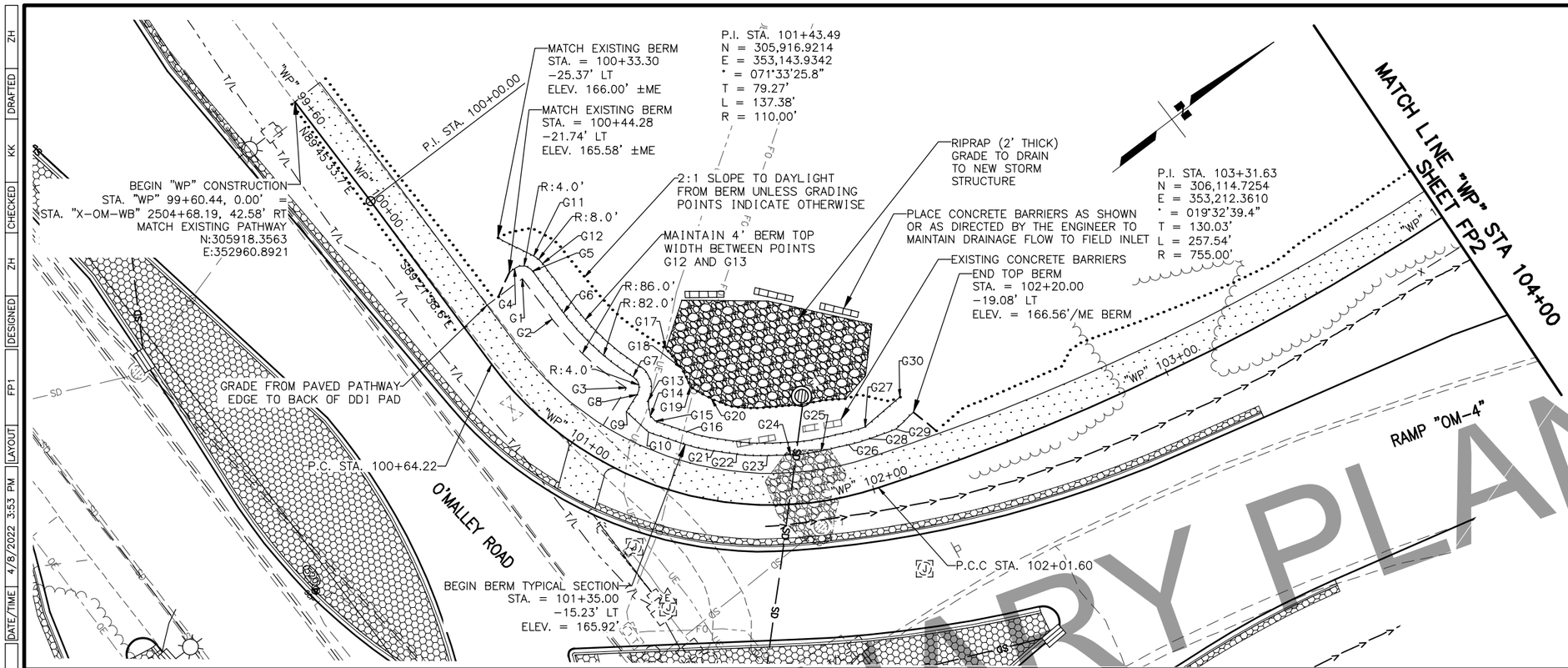
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE "X-SA" PROFILE
3020+00 TO 3025+00

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876331\00012_F208_PNP.DWG | DATE/TIME | 4/7/2022 11:30 AM | LAYOUT | F208 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM



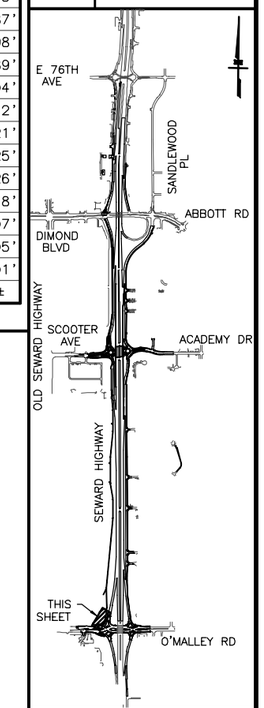
DDI PAD GRADING

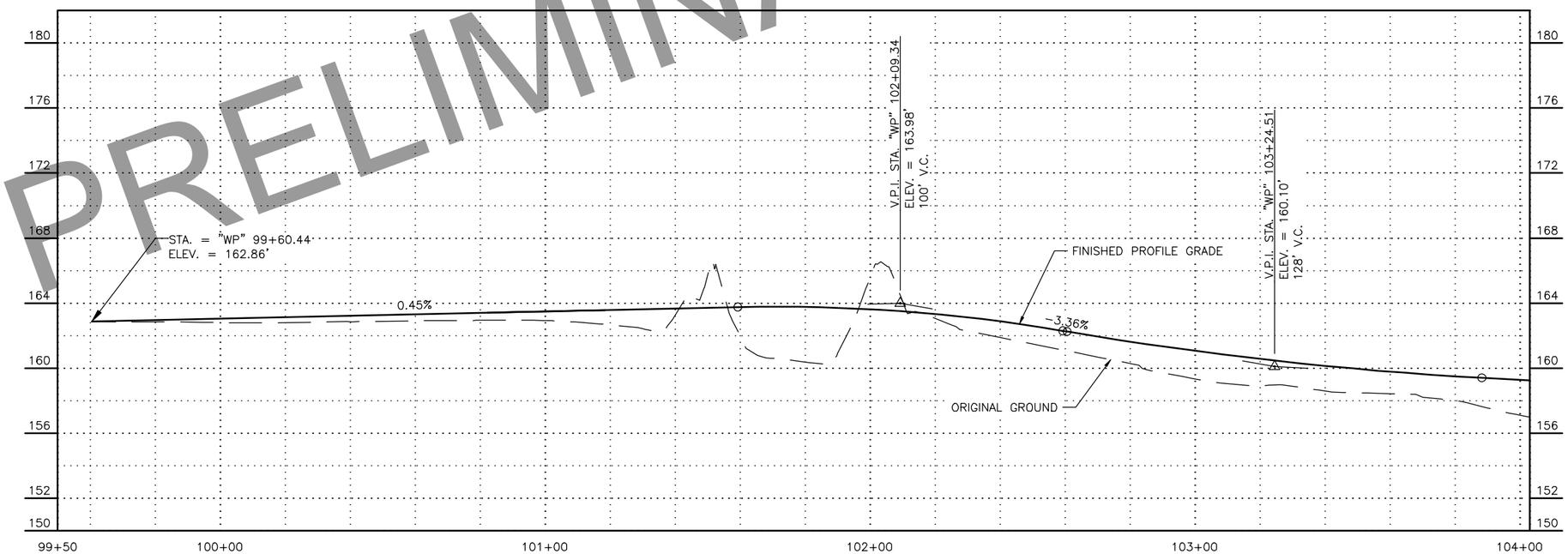
POINT	STA.	OFFSET	ELEV.
G1	100+48.26	24.00' LT	163.61'
G2	100+64.22	24.00' LT	163.68'
G3	101+05.35	24.00' LT	163.87'
G4	100+44.26	23.96' LT	165.61'
G5	100+48.26	28.00' LT	165.61'
G6	100+65.00	28.00' LT	165.62'
G7	101+05.35	28.00' LT	165.87'
G8	101+10.47	23.91' LT	165.87'
G9	101+10.11	17.49' LT	165.77'
G10	101+20.89	14.80' LT	165.72'
G11	100+44.64	31.13' LT	165.61'
G12	100+48.26	32.00' LT	165.61'
G13	101+15.56	23.63' LT	165.87'
G14	101+19.03	19.72' LT	165.80'
G15	101+21.60	18.88' LT	165.80'
G16	101+34.34	19.24' LT	165.91'
G17	101+11.73	40.88' LT	161.13'
G18	101+23.19	37.50' LT	160.87'
G19	101+29.76	33.06' LT	160.98'
G20	101+40.42	31.31' LT	160.89'
G21	101+45.76	15.38' LT	166.04'
G22	101+54.31	15.46' LT	166.12'
G23	101+65.68	15.56' LT	166.21'
G24	101+74.28	15.63' LT	166.25'
G25	101+85.71	15.73' LT	166.26'
G26	101+96.08	15.74' LT	166.18'
G27	102+03.53	19.62' LT	166.07'
G28	102+03.64	15.62' LT	166.05'
G29	102+12.82	15.80' LT	166.01'
G30	102+17.46	24.99' LT	ME ±

SHEET NO.	TOTAL SHEETS
FP1	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	





PRELIMINARY PLANS

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

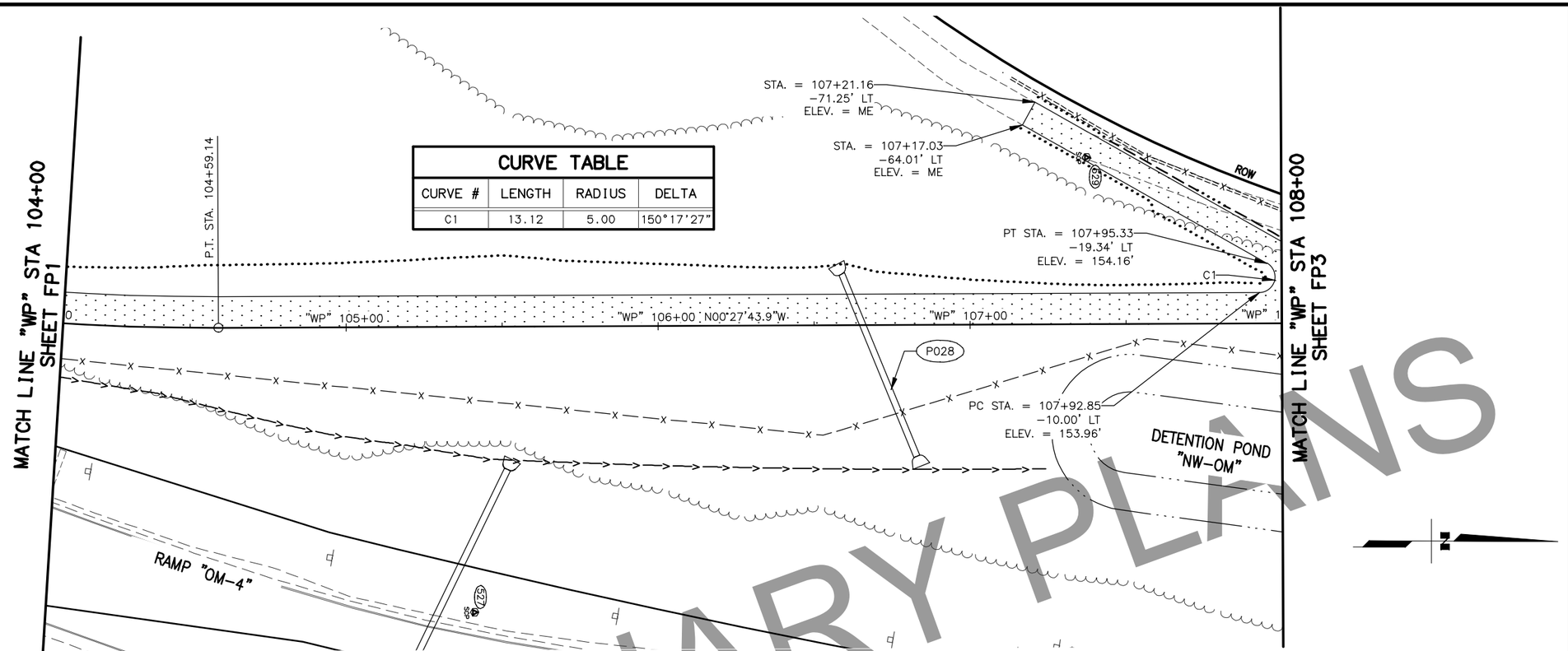
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

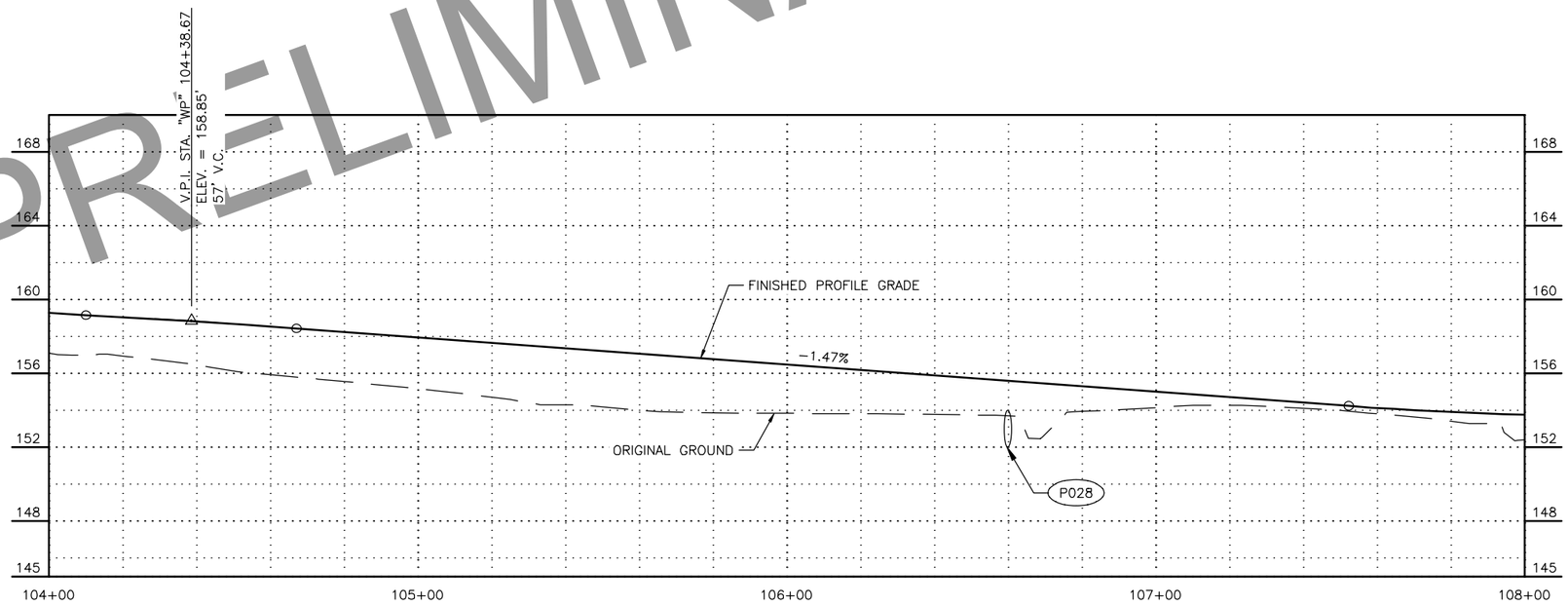
**WEST PATHWAY "WP"
PLAN & PROFILE**

DATE/TIME 4/8/2022 3:53 PM | LAYOUT FP1 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

FILE C:\DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	13.12	5.00	150°17'27"

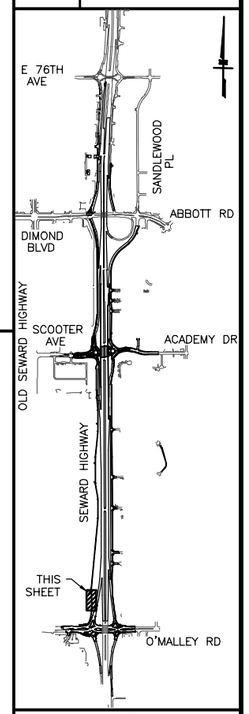




SHEET NO.	TOTAL SHEETS
FP2	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

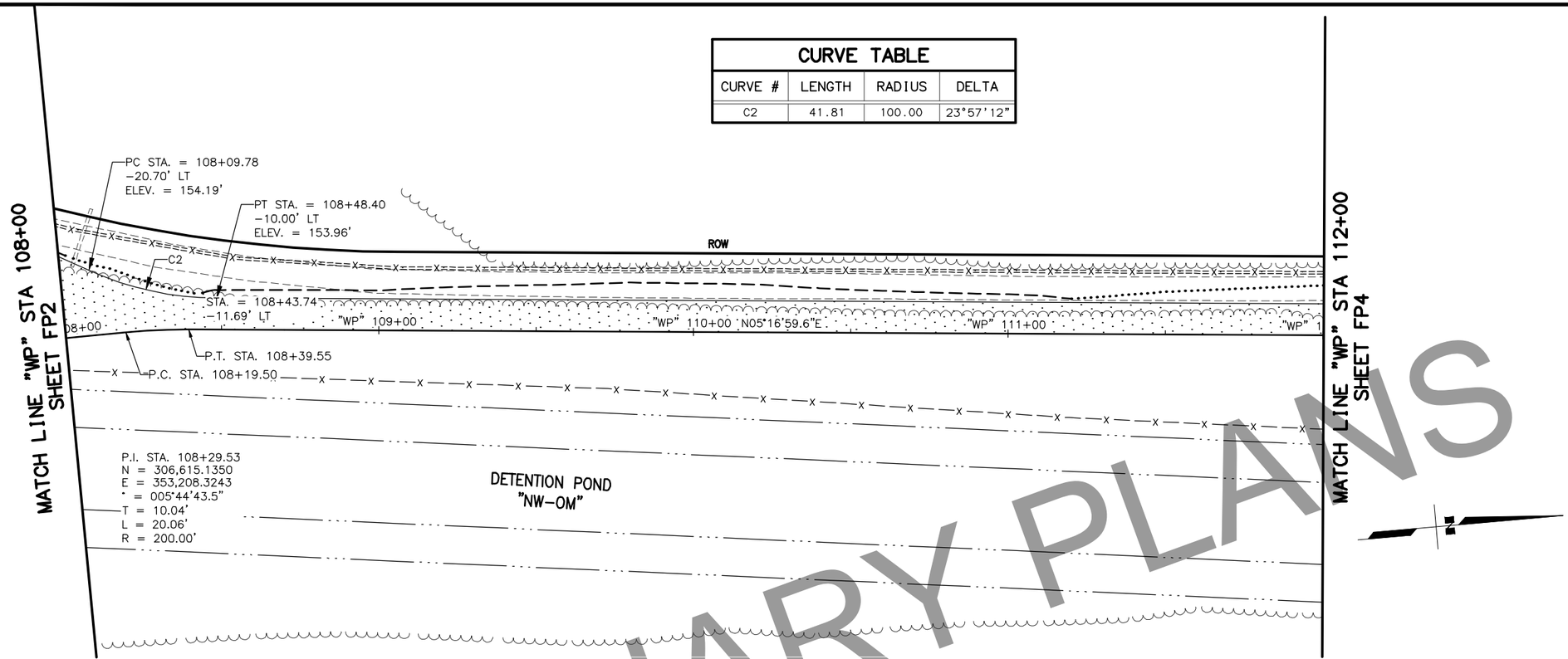
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

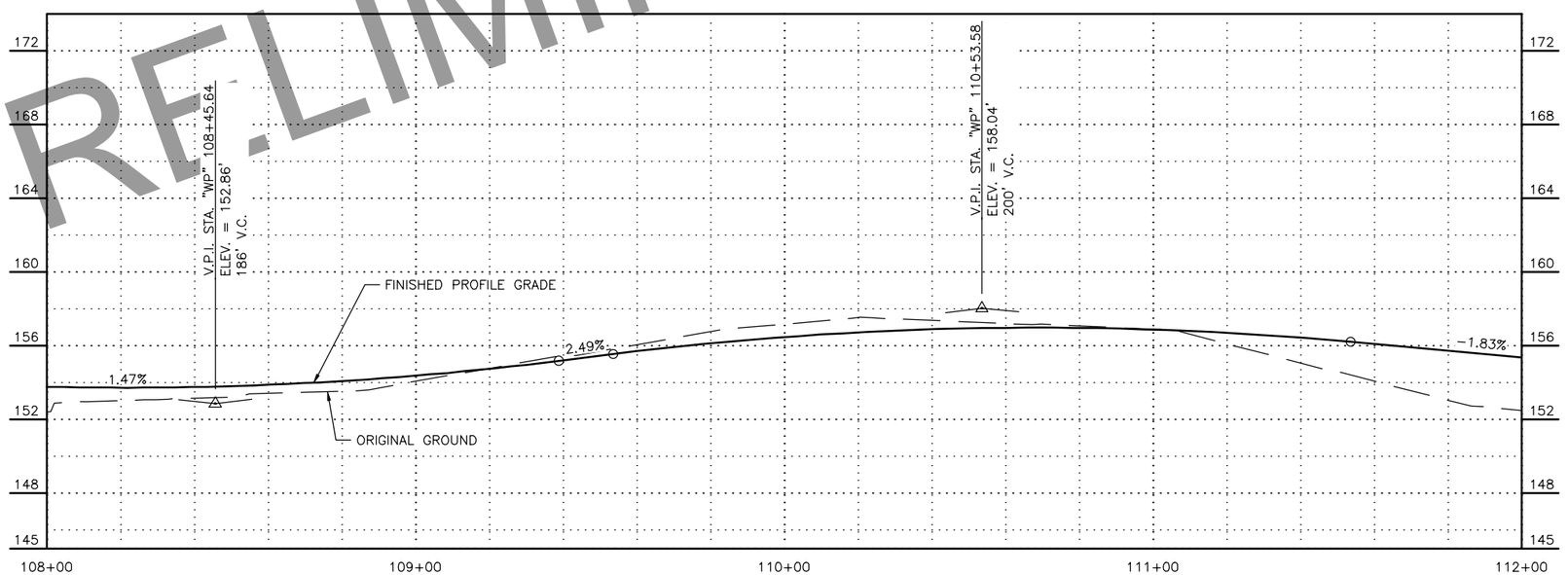
WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME | 4/8/2022 3:54 PM | LAYOUT | FP2 | DESIGNED | ZH | CHECKED | KK | DRAFTED | ZH

FILE | C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C2	41.81	100.00	23°57'12"

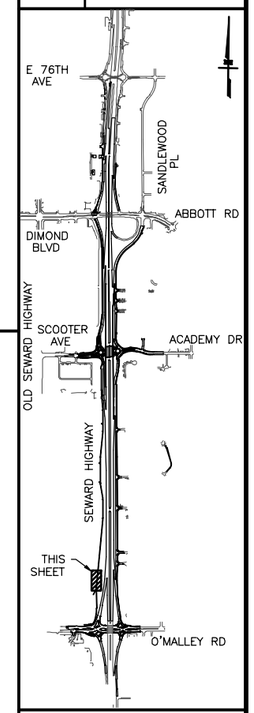




SHEET NO.	TOTAL SHEETS
FP3	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
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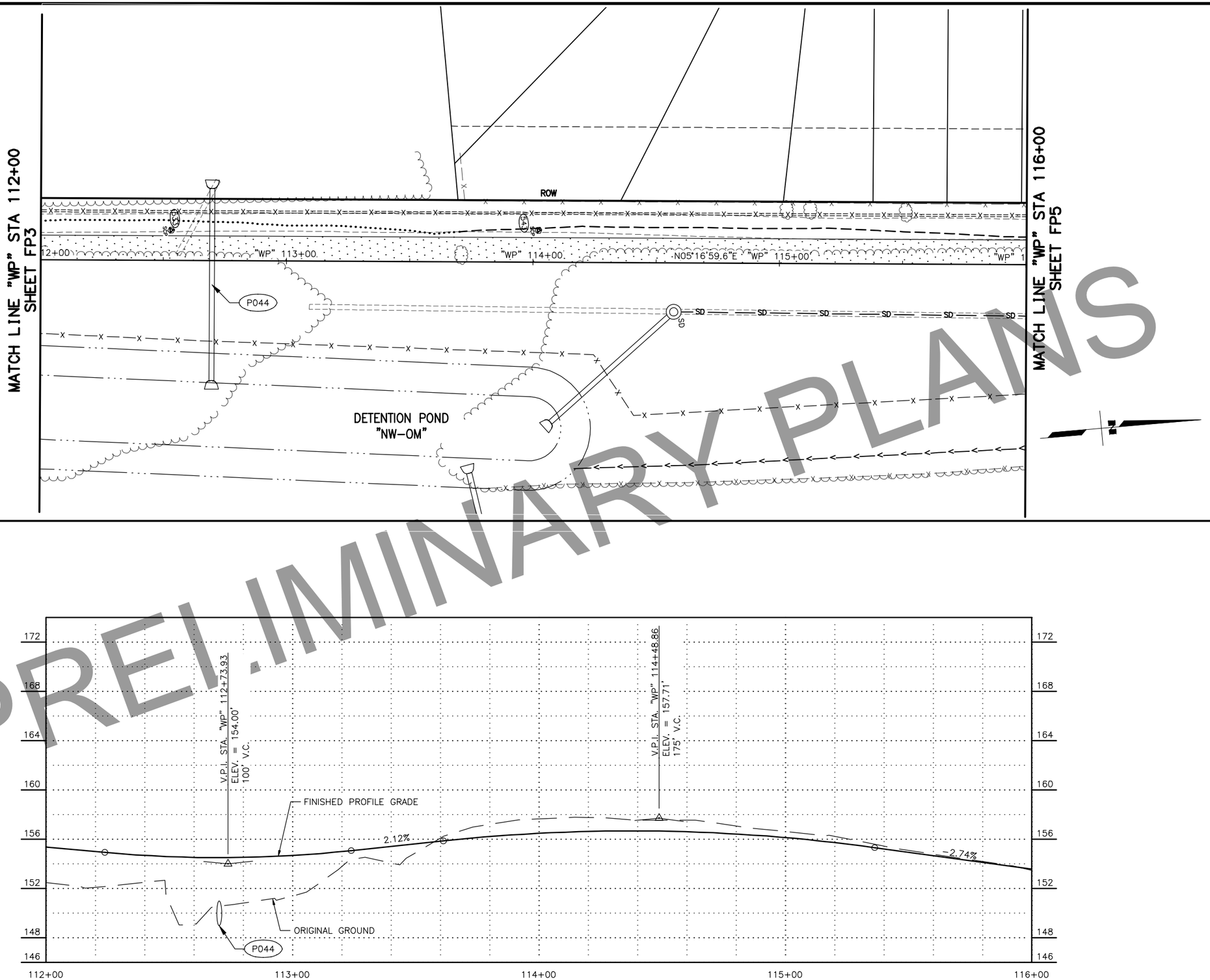
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME 4/8/2022 3:56 PM | LAYOUT FP3 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

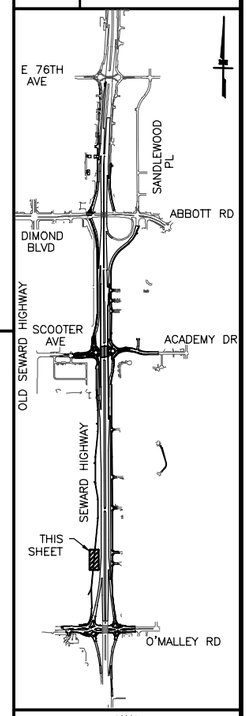
FILE C:\DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG



SHEET NO.	TOTAL SHEETS
FP4	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
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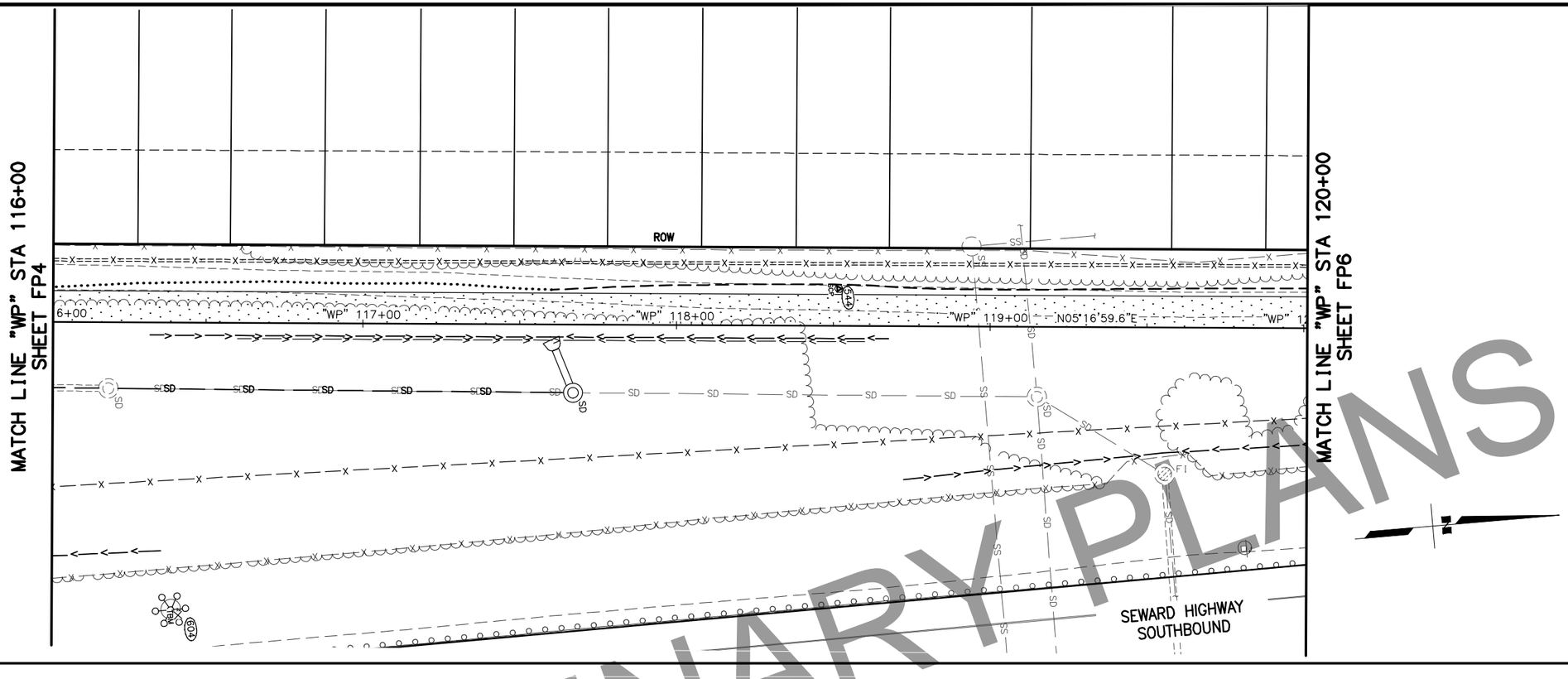
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

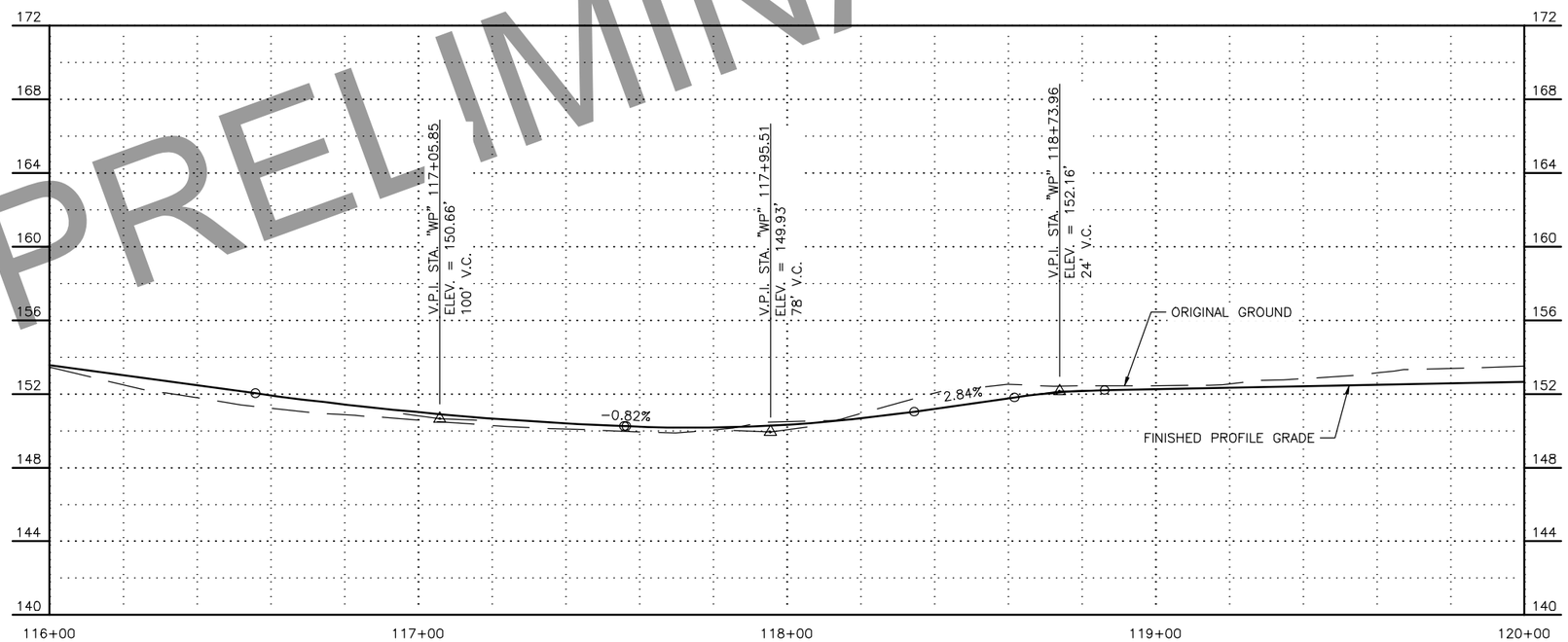
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME 4/8/2022 3:59 PM | LAYOUT FP4 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

FILE C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG

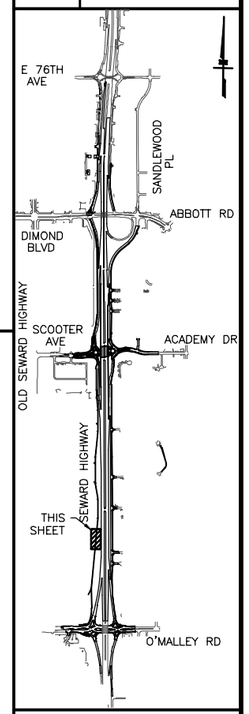




SHEET NO.	TOTAL SHEETS
FP5	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATION
APRIL 2022

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME 4/8/2022 4:01 PM | LAYOUT FP5 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

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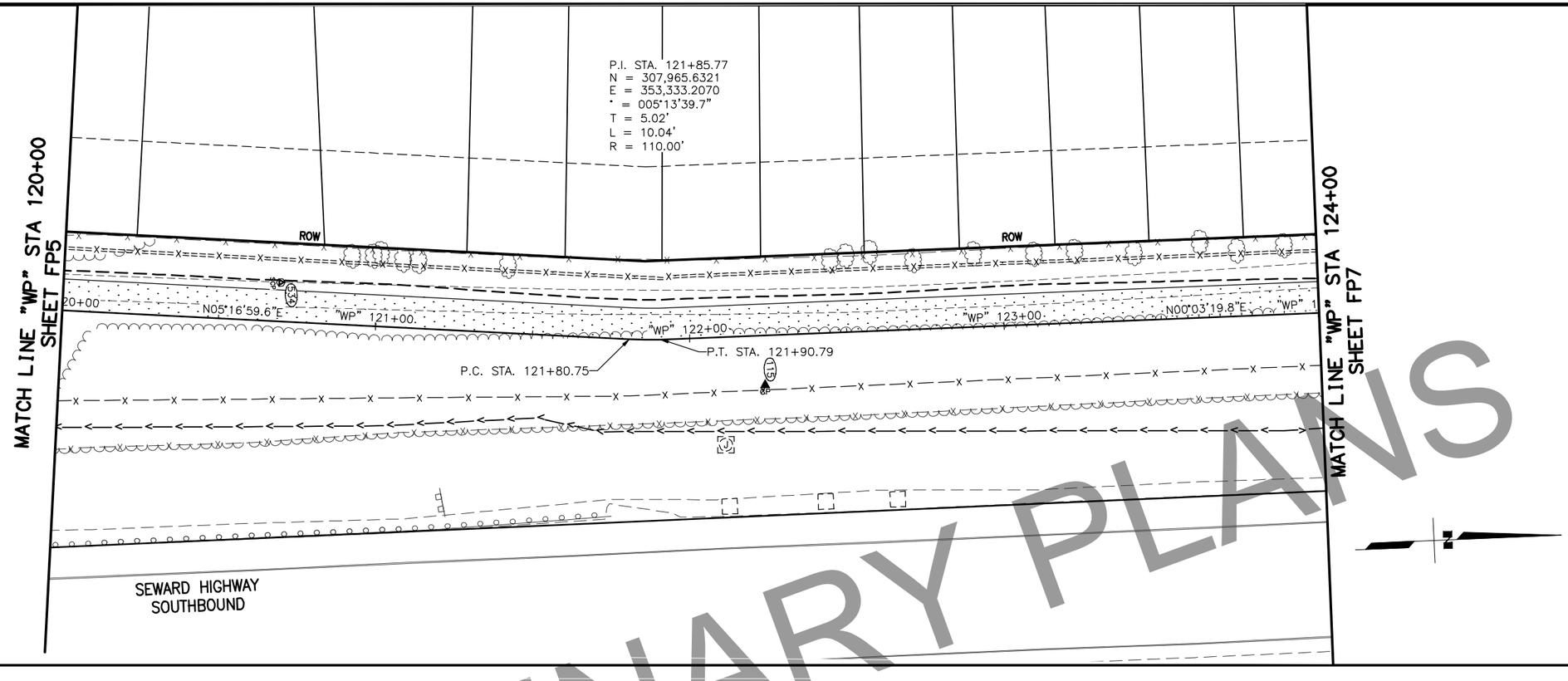
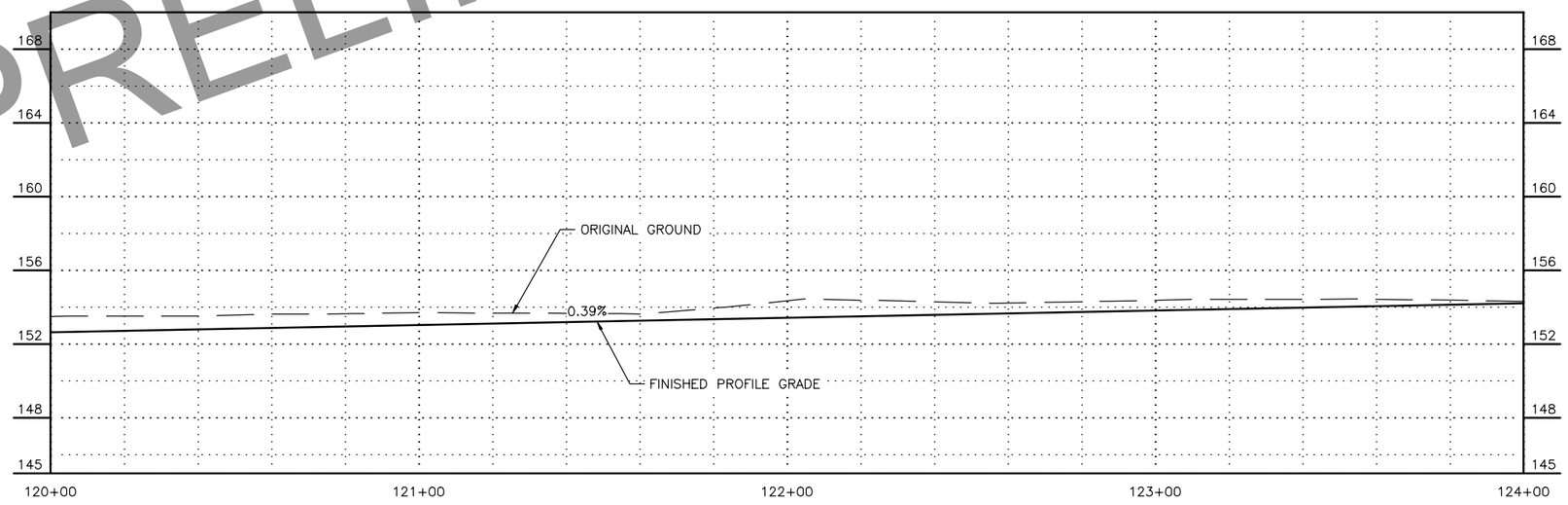




SHEET NO.	TOTAL SHEETS
FP6	FP14
STATE	YEAR
ALASKA	2022

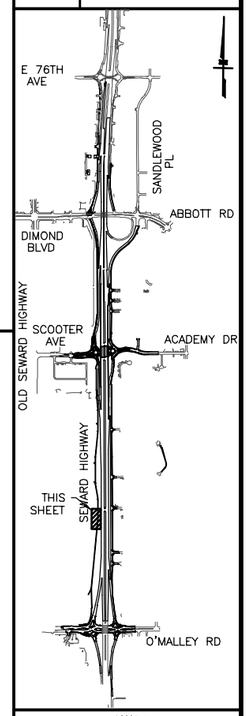
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
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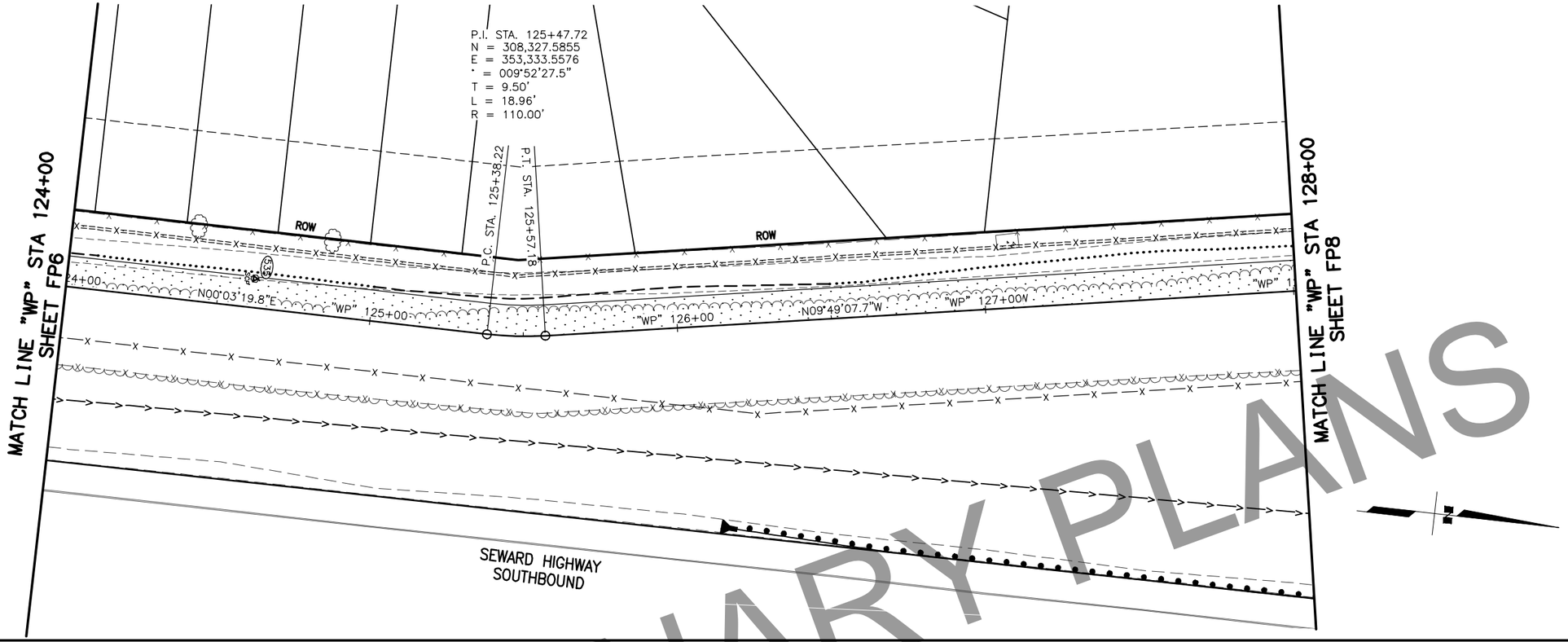
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

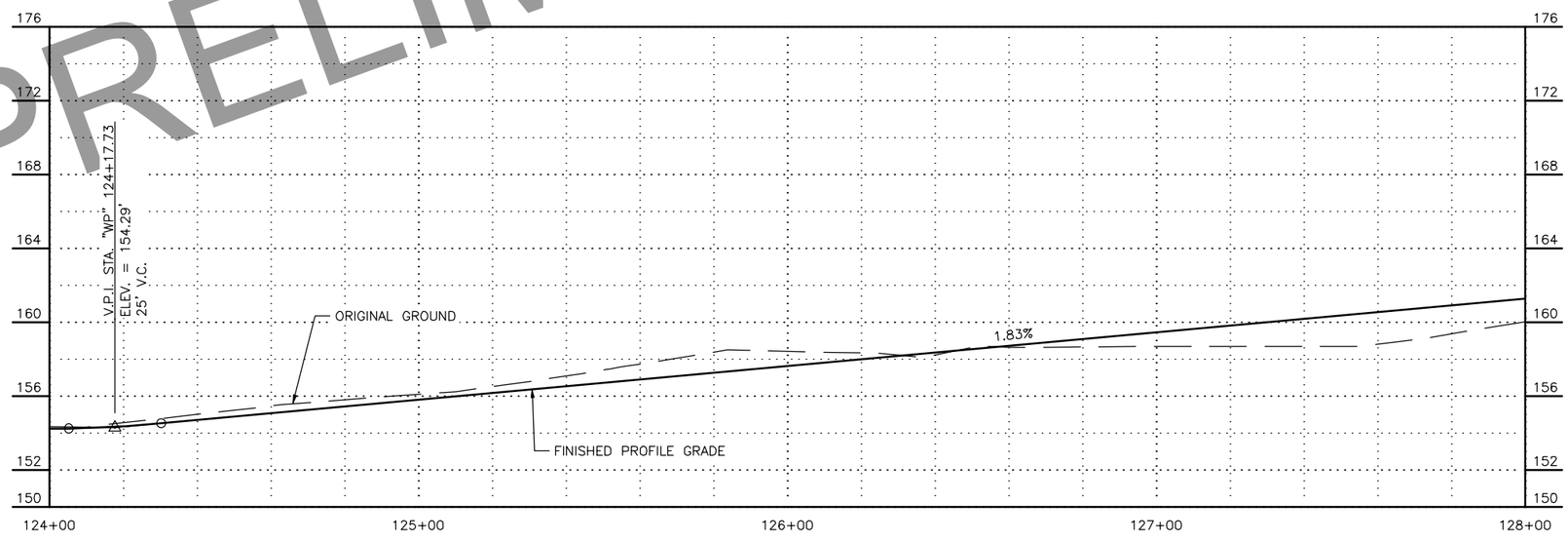
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME | 4/8/2022 4:02 PM | LAYOUT | FP6 | DESIGNED | ZH | CHECKED | KK | DRAFTED | ZH

FILE | C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG



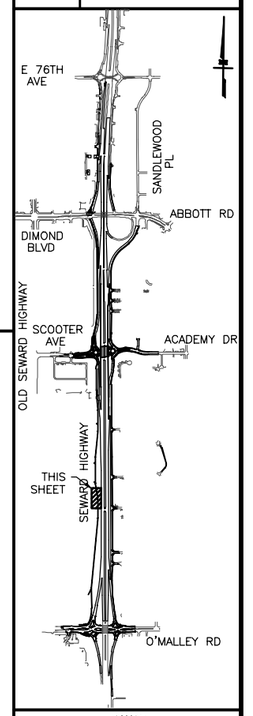


SHEET NO.	TOTAL SHEETS
FP7	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATION
APRIL 2022

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

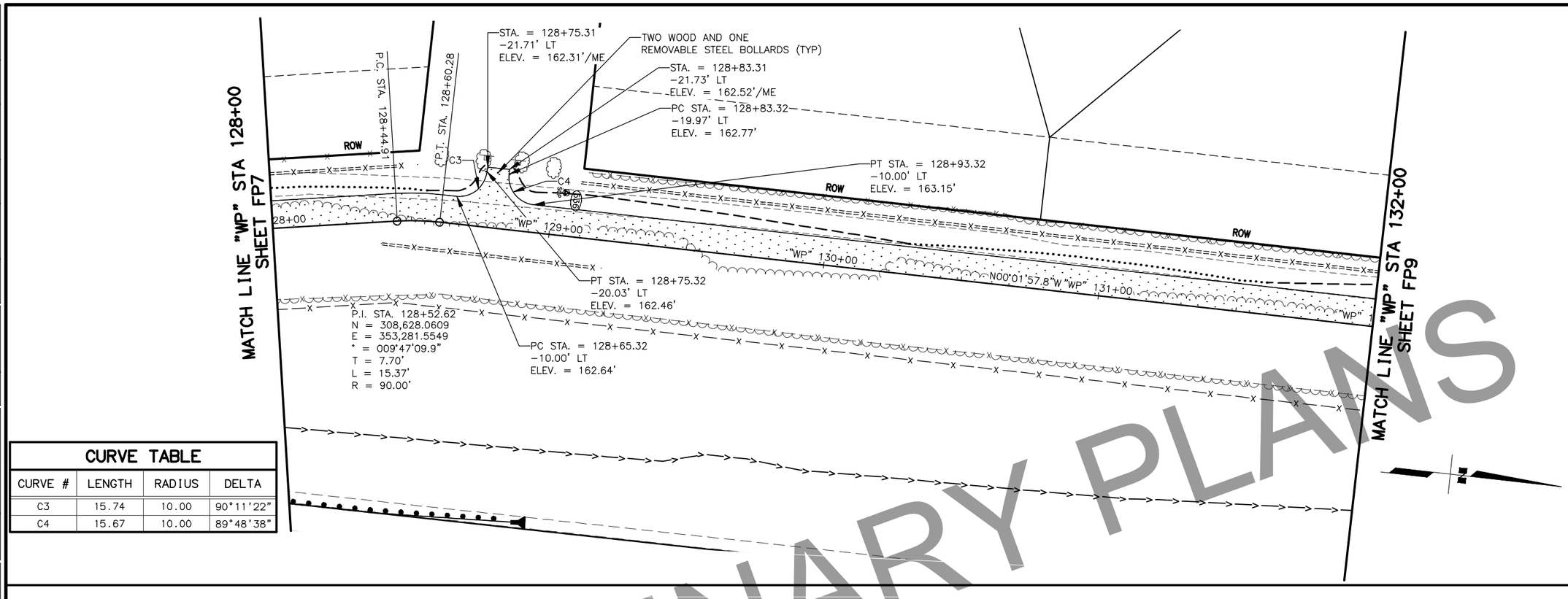
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

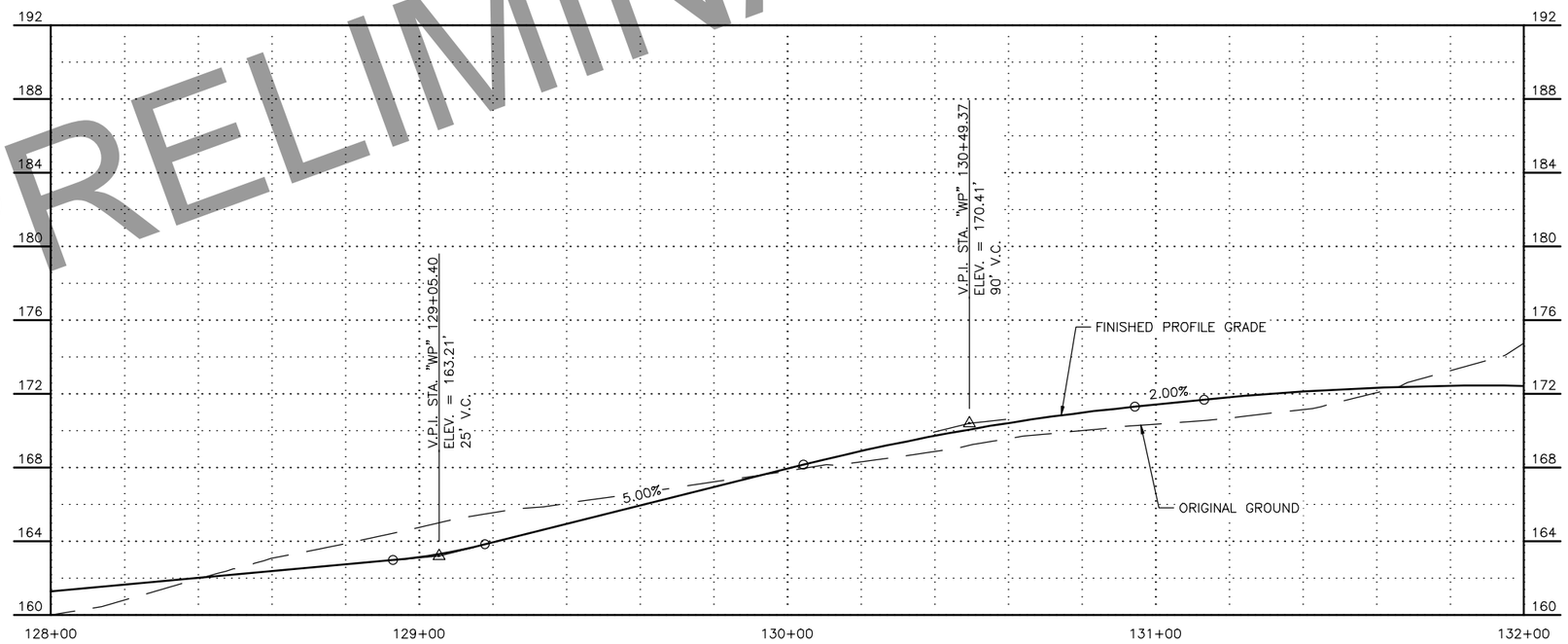
**WEST PATHWAY "WP"
PLAN & PROFILE**

DATE/TIME 4/8/2022 4:03 PM | LAYOUT FP7 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

FILE C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG



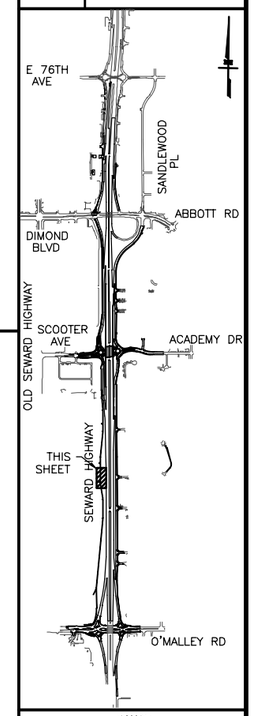
CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	15.74	10.00	90°11'22"
C4	15.67	10.00	89°48'38"



SHEET NO.	TOTAL SHEETS
FP8	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

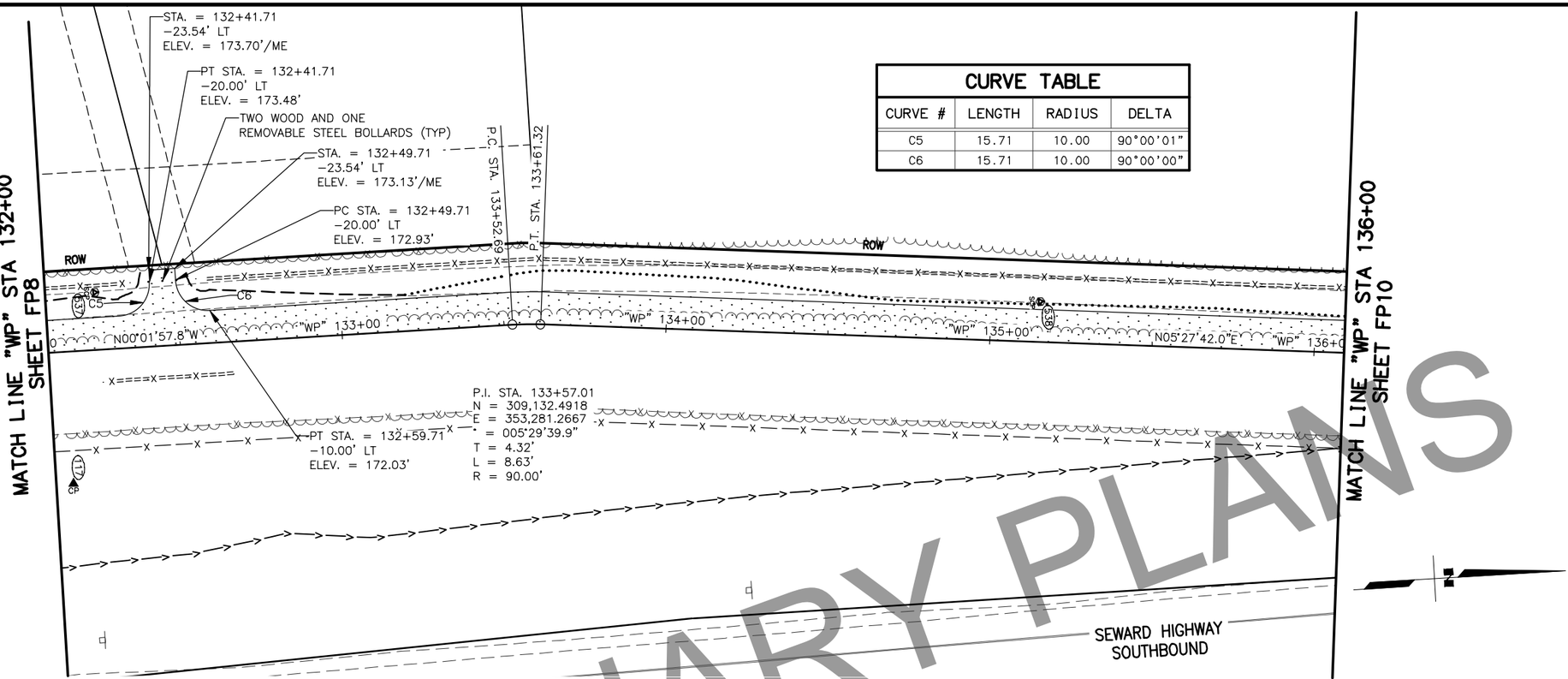
DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

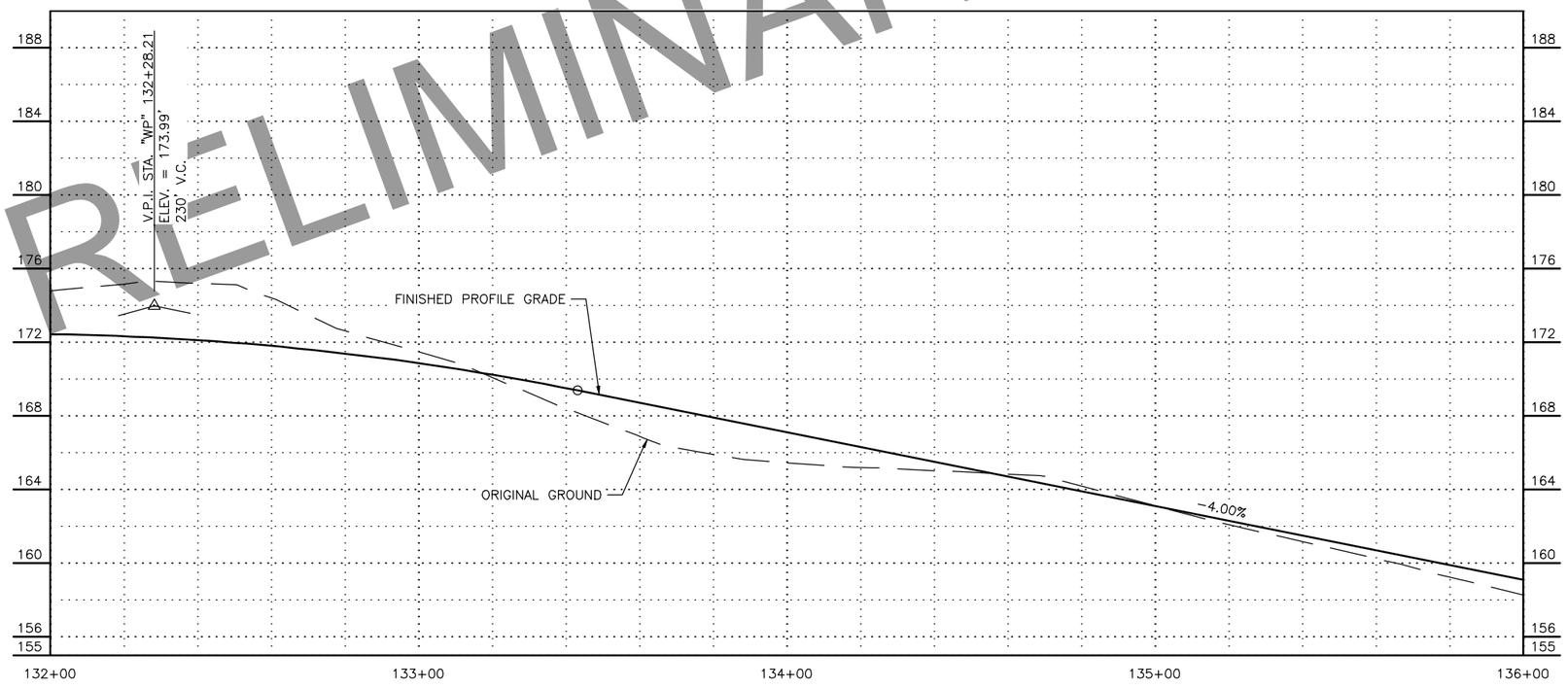
**WEST PATHWAY "WP"
PLAN & PROFILE**

DATE/TIME 4/8/2022 4:04 PM | LAYOUT FP8 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
FILE C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG



CURVE TABLE

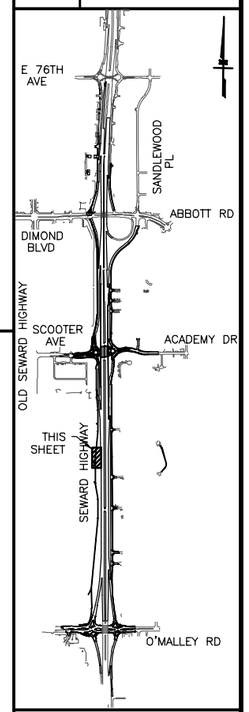
CURVE #	LENGTH	RADIUS	DELTA
C5	15.71	10.00	90°00'01"
C6	15.71	10.00	90°00'00"



SHEET NO.	TOTAL SHEETS
FP9	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

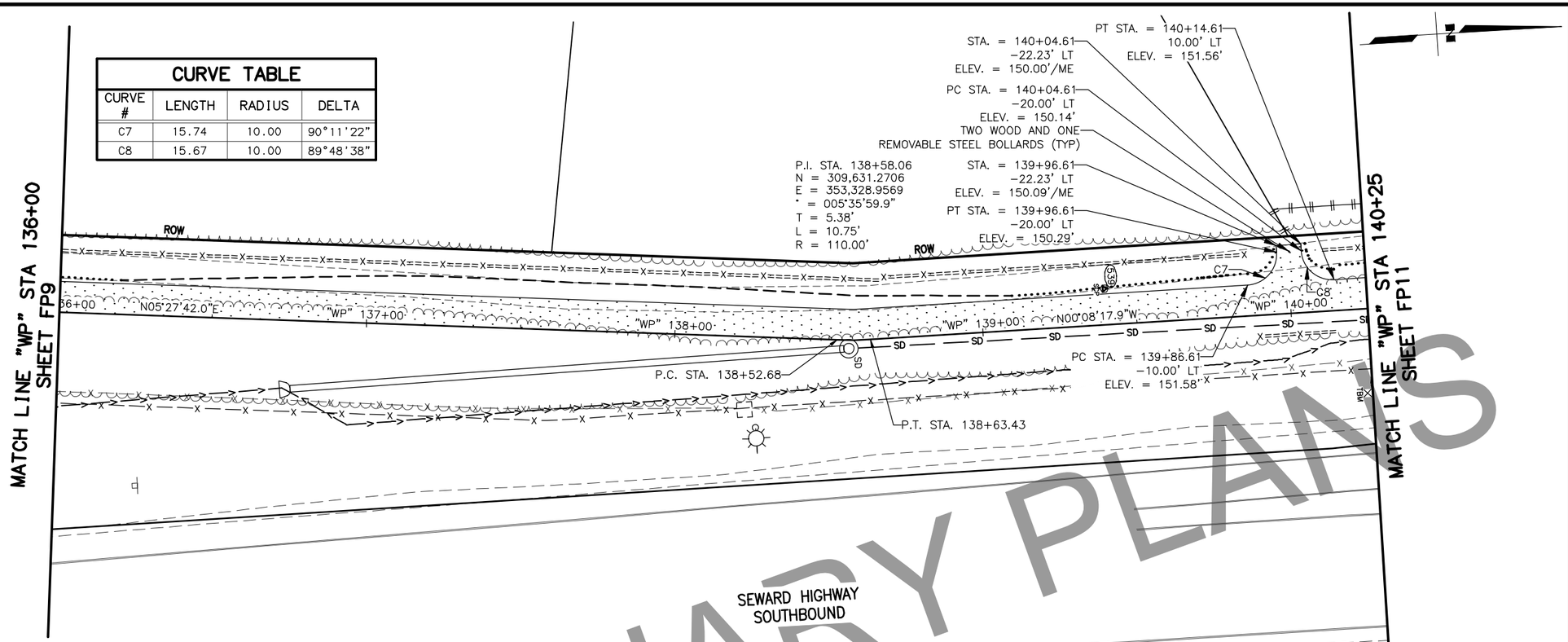
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

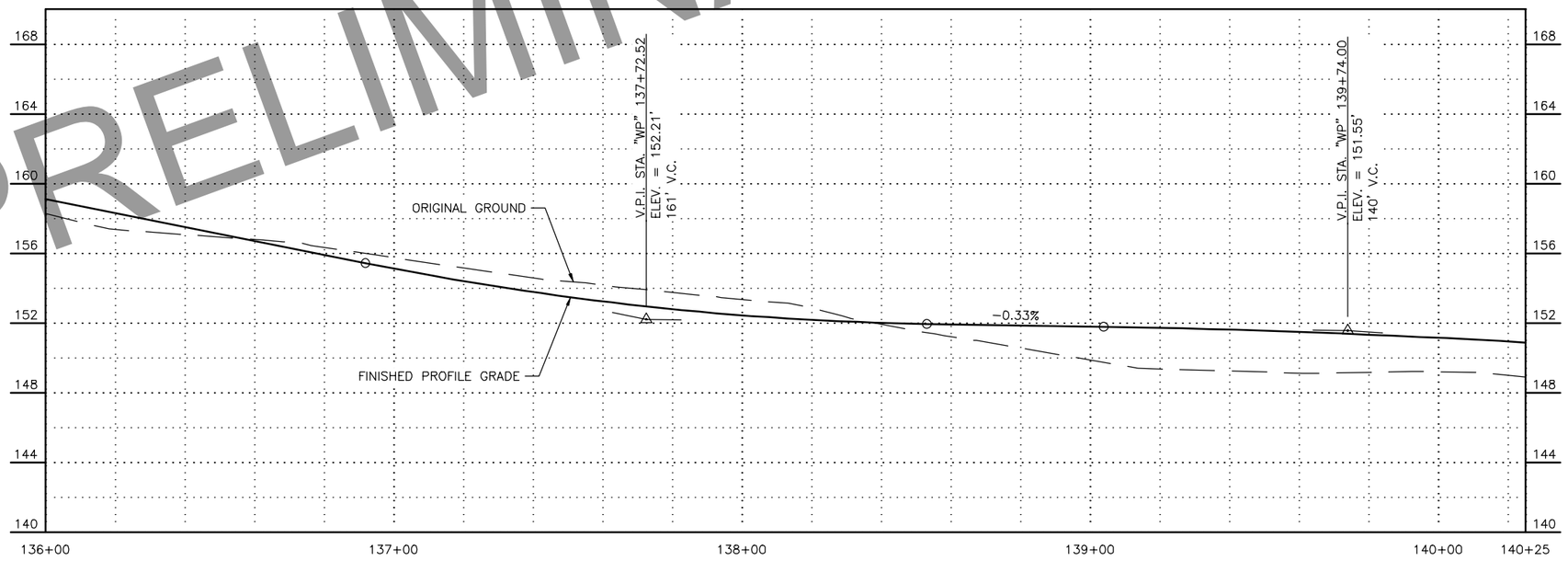
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

**WEST PATHWAY "WP"
PLAN & PROFILE**

DATE/TIME | 4/8/2022 4:07 PM | LAYOUT | FP9 | DESIGNED | ZH | CHECKED | KK | DRAFTED | ZH
FILE | C:\DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C7	15.74	10.00	90°11'22"
C8	15.67	10.00	89°48'38"

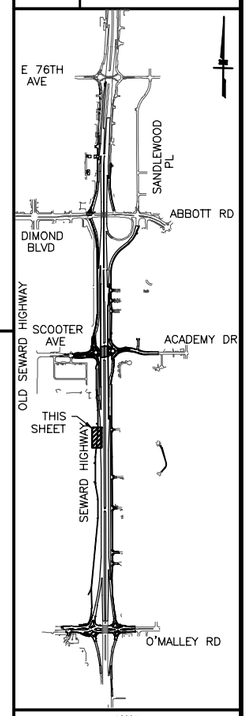




SHEET NO.	TOTAL SHEETS
FP10	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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4041 B STREET
ANCHORAGE, AK 99503
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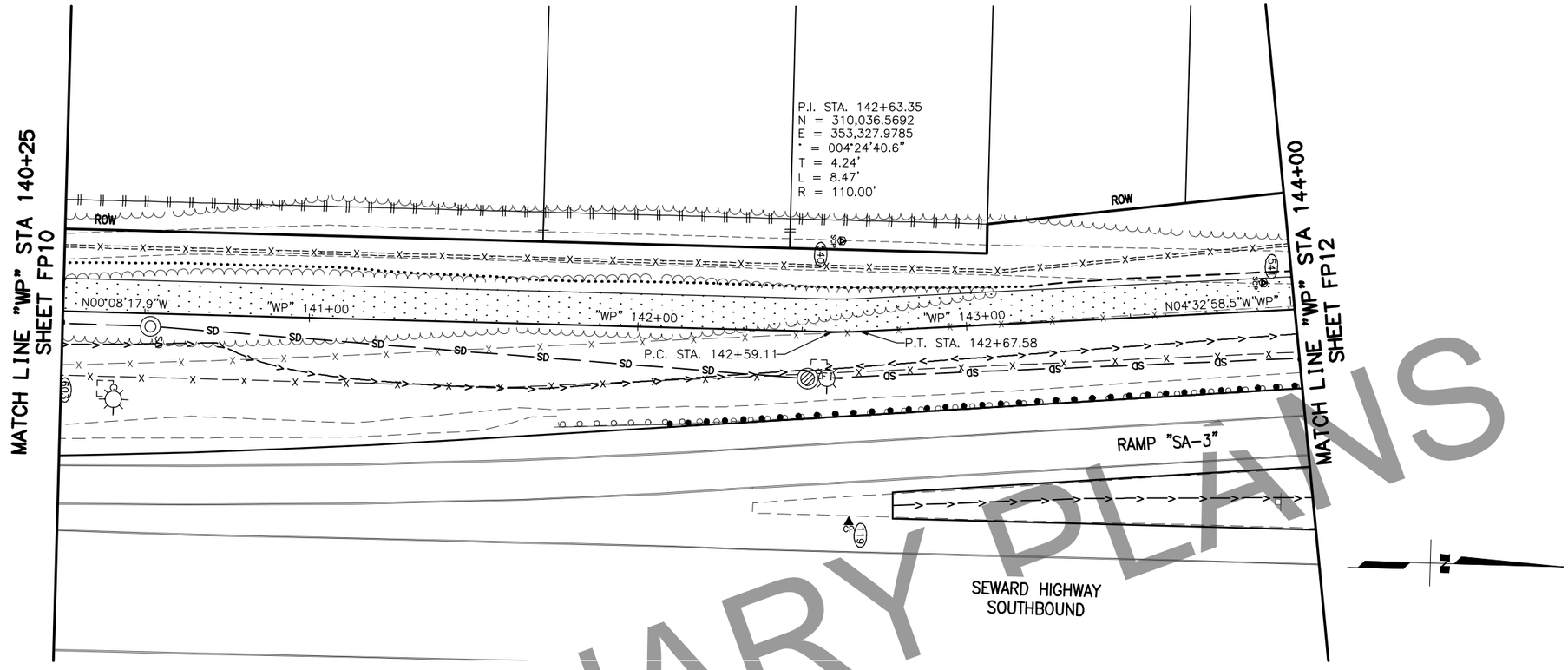
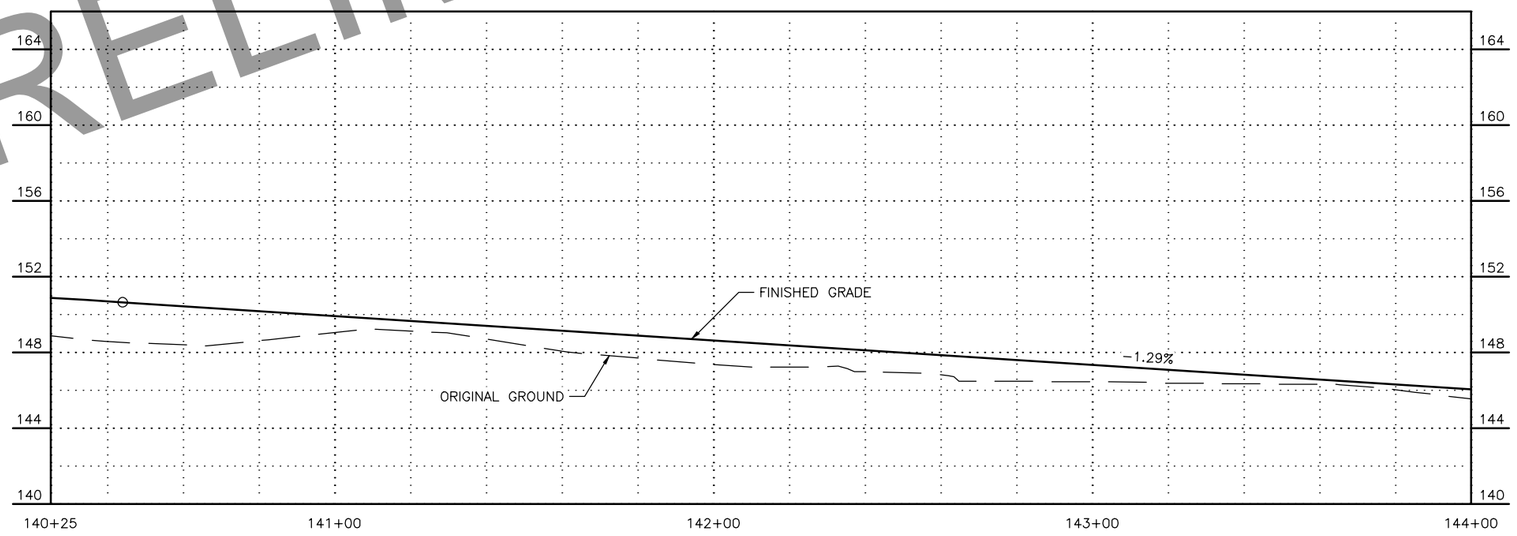
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME 4/8/2022 4:08 PM | LAYOUT FP10 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
FILE C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG



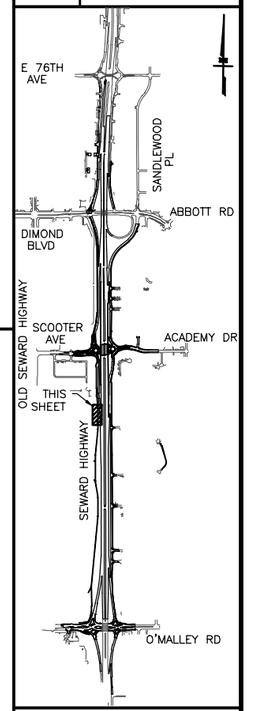


SHEET NO.	TOTAL SHEETS
FP11	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

**WEST PATHWAY "WP"
PLAN & PROFILE**

DATE/TIME 4/8/2022 4:10 PM | LAYOUT FP11 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

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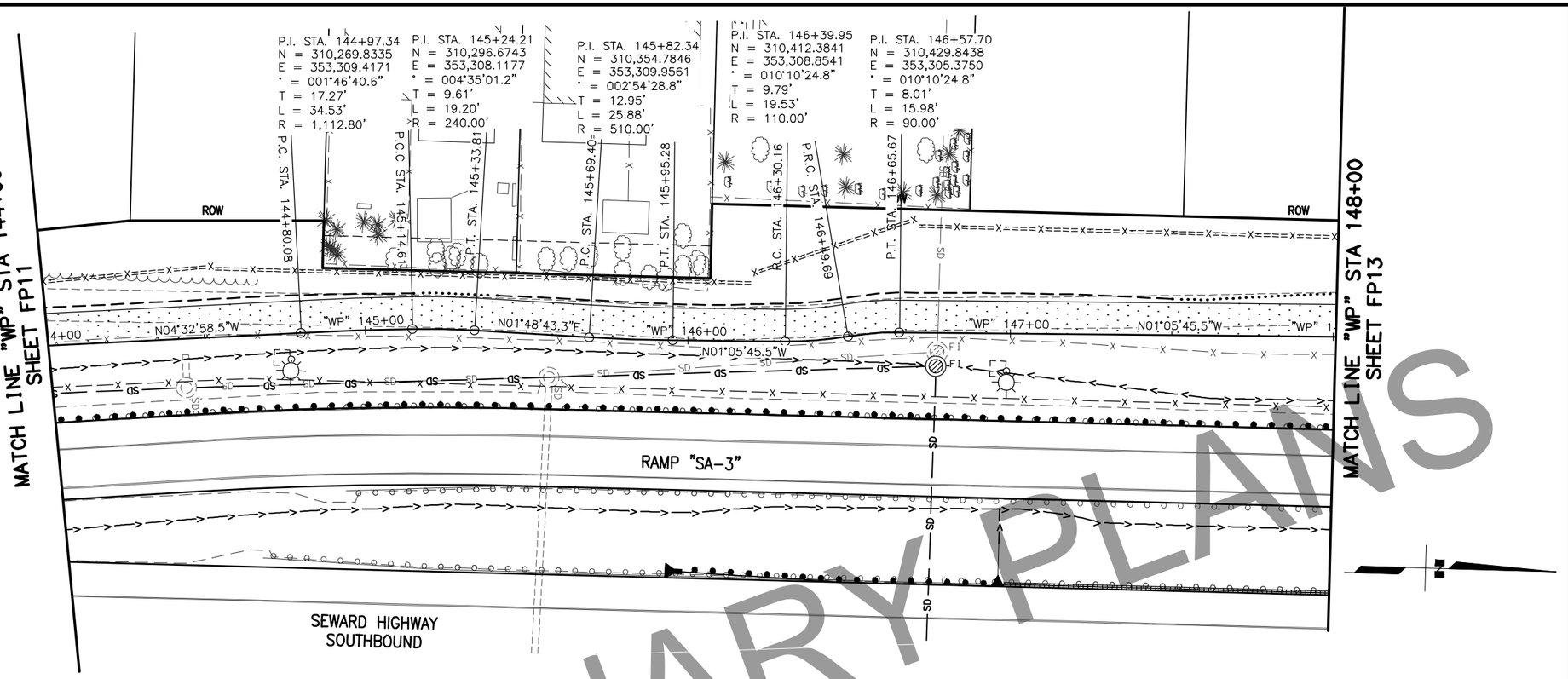
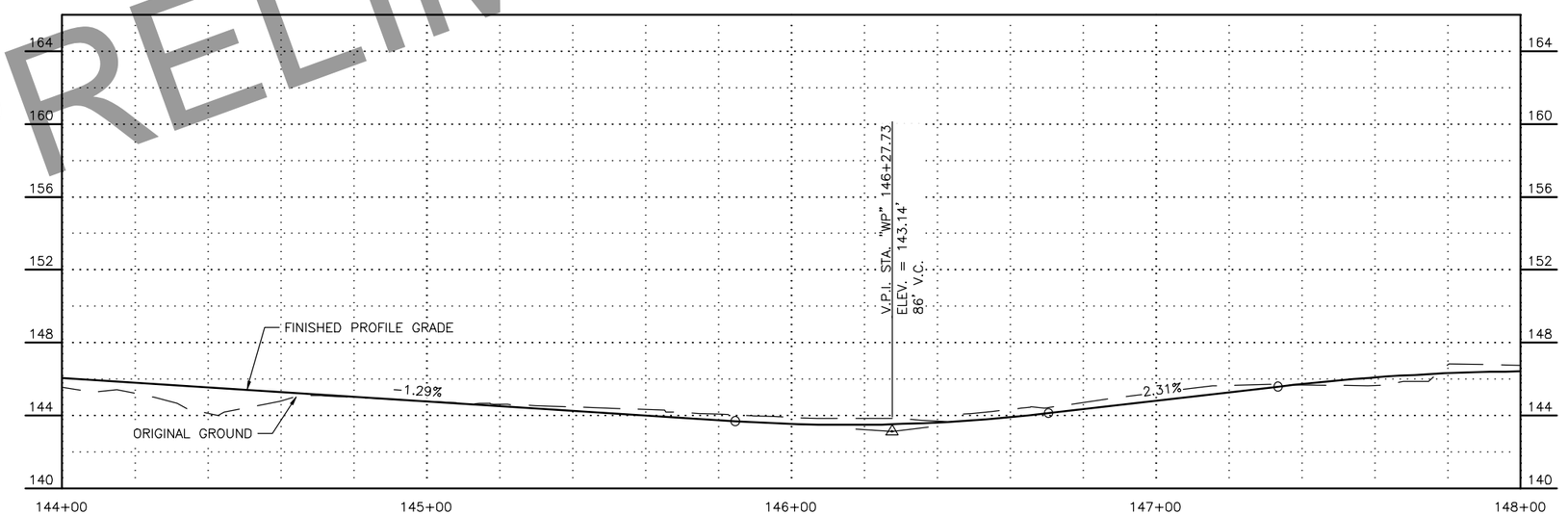


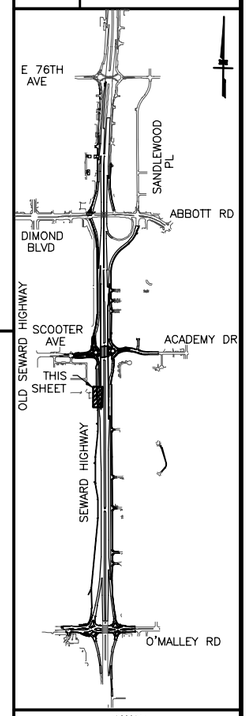


SHEET NO.	TOTAL SHEETS
FP12	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

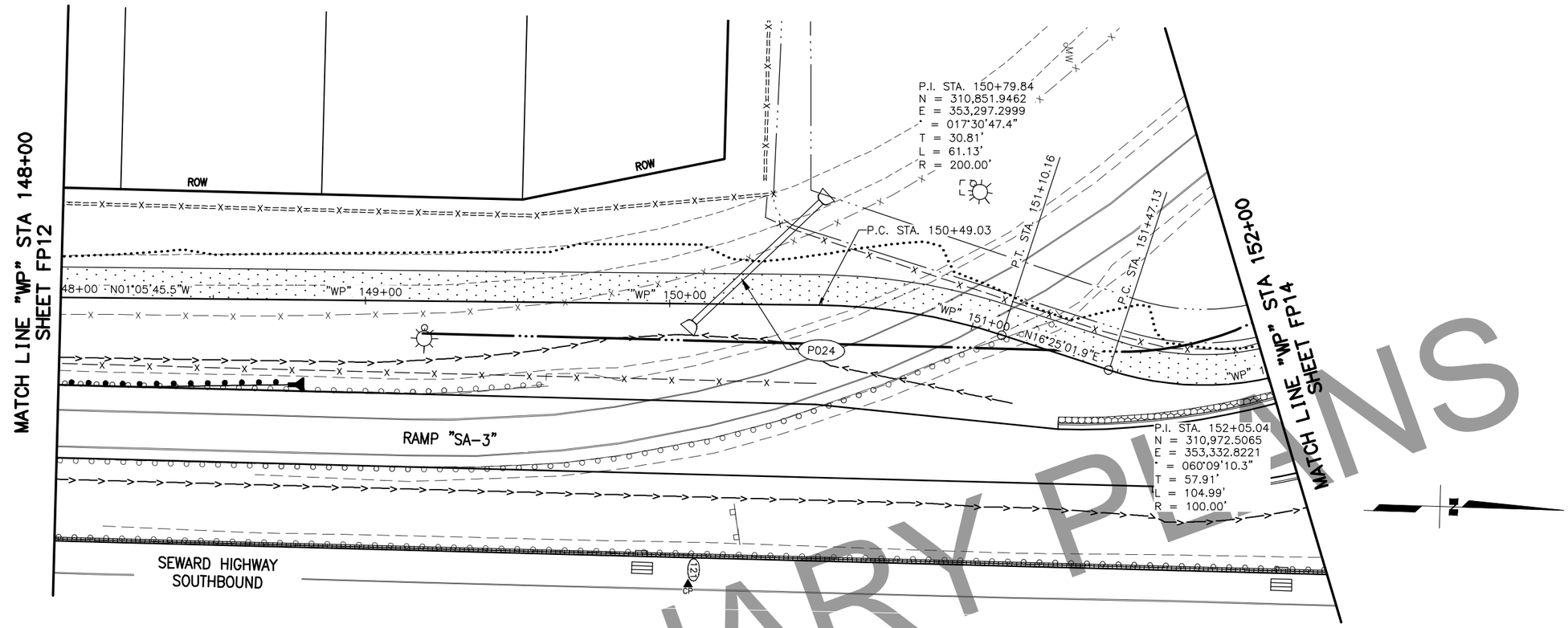
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

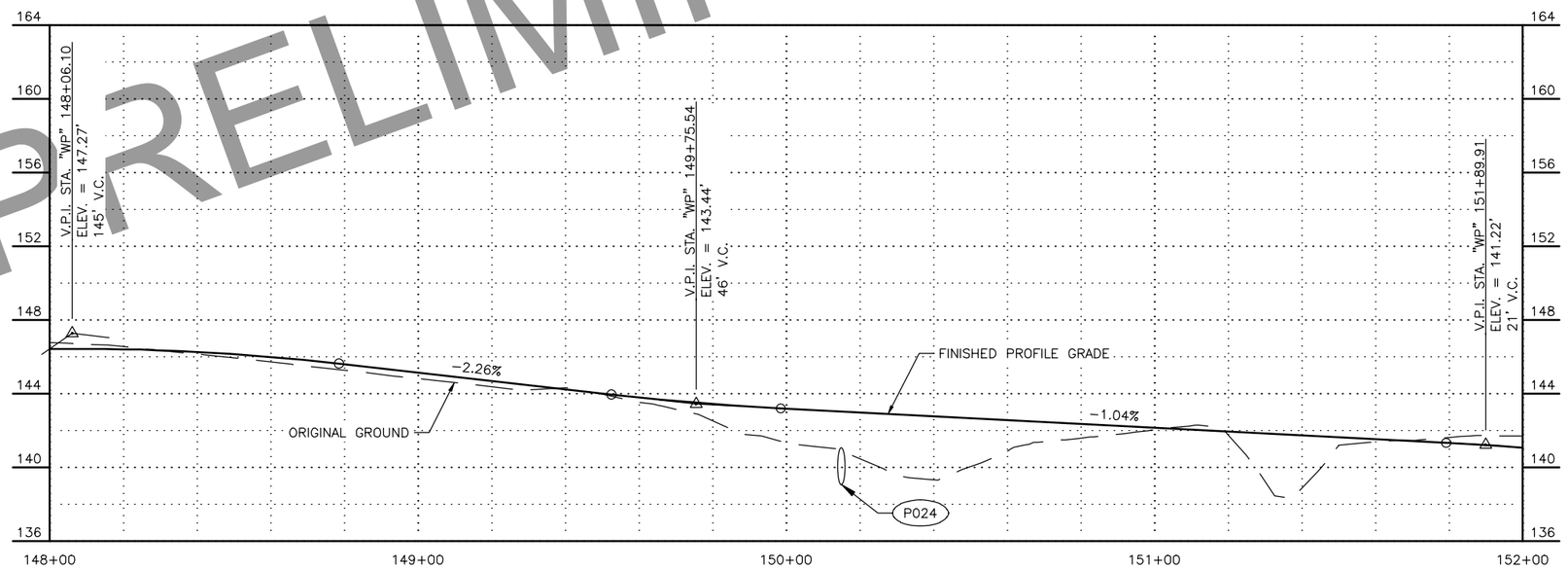
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME | 4/8/2022 4:11 PM | LAYOUT | FP12 | DESIGNED | ZH | CHECKED | KK | DRAFTED | ZH

FILE | C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG

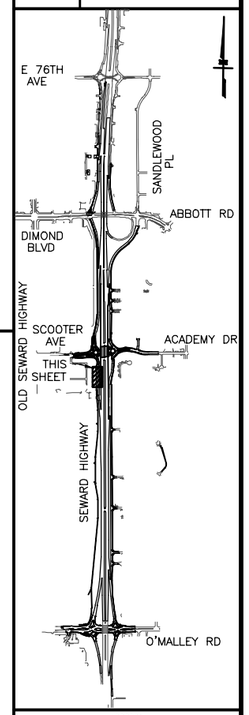




SHEET NO.	TOTAL SHEETS
FP13	FP14
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

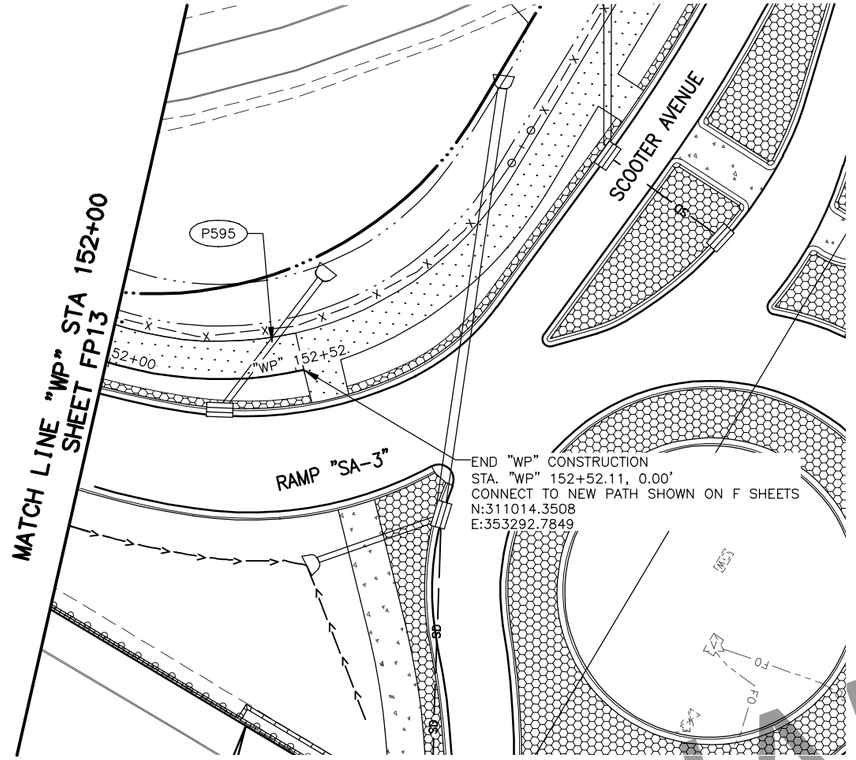
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

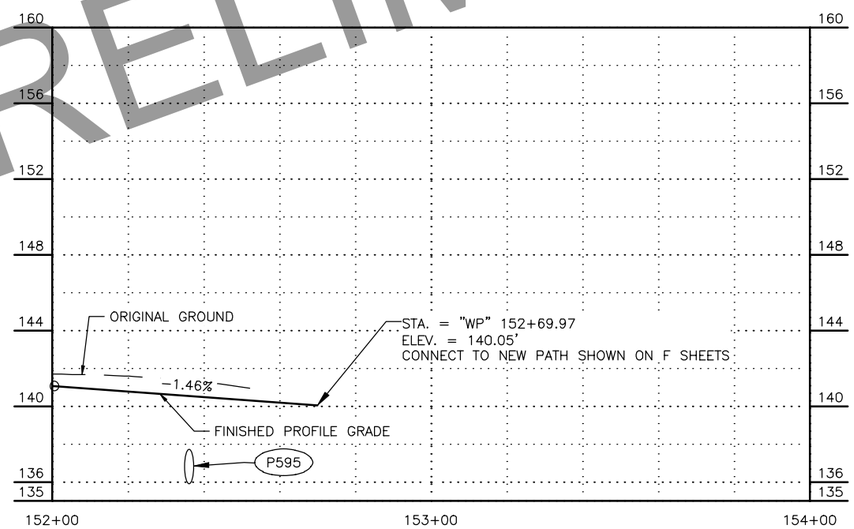
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

WEST PATHWAY "WP"
PLAN & PROFILE

DATE/TIME 4/8/2022 4:12 PM | LAYOUT FP13 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

FILE C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG





SHEET NO.	TOTAL SHEETS
FP14	FP14
STATE	YEAR
ALASKA	2022

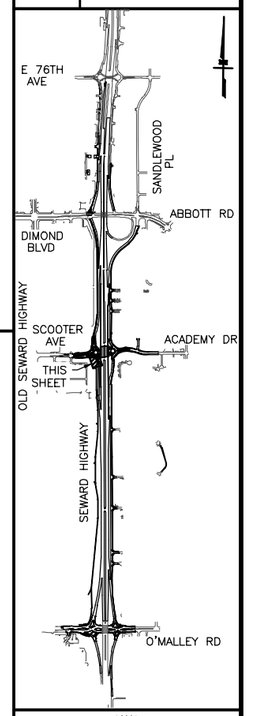
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

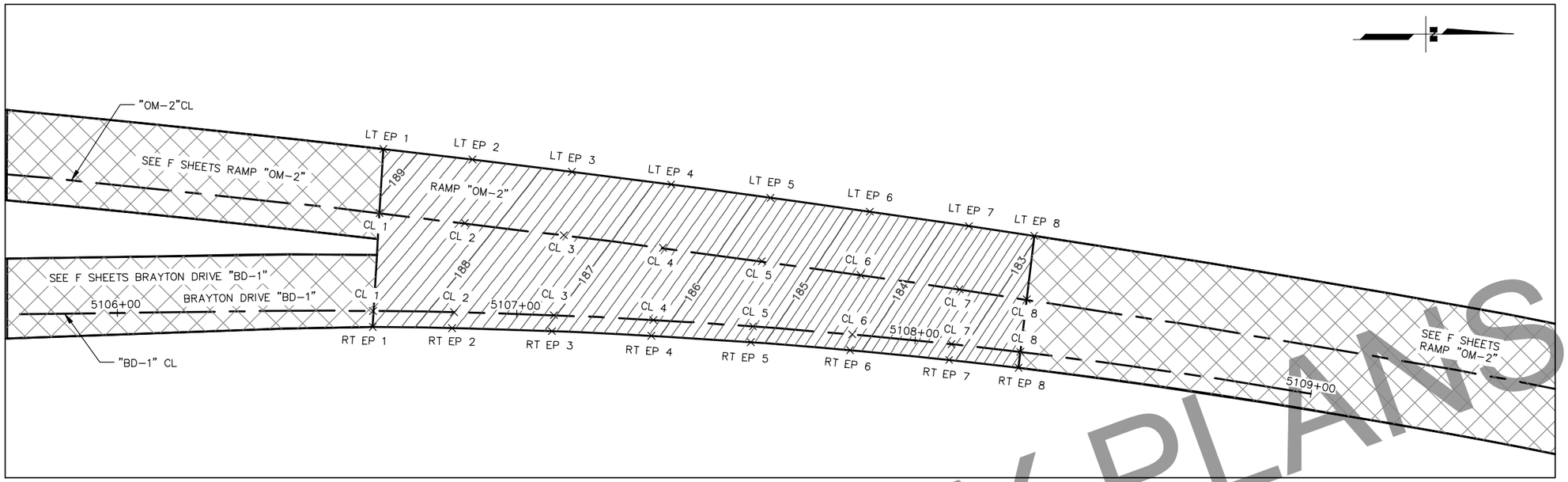
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

**WEST PATHWAY "WP"
PLAN & PROFILE**

DATE/TIME 4/8/2022 4:13 PM | LAYOUT FP14 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

FILE C:_DOWL_PW\D0391306\SC-CT-PA-FP-62153.DWG



PLAN

0 15 30 45

1"= 15'

"OM-2" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"OM-2" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	2201+52.67	16.00	LT	189.25
LT EP 2	2201+75.00	16.00	LT	188.57
LT EP 3	2202+00.00	16.00	LT	187.74
LT EP 4	2202+25.00	16.00	LT	186.84
LT EP 5	2202+50.00	16.00	LT	185.87
LT EP 6	2202+75.00	16.00	LT	184.82
LT EP 7	2203+00.00	16.00	LT	183.75
LT EP 8	2203+16.48	16.00	LT	183.04

"OM-2" CL

POINT	"OM-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	2201+53.53	0.00	--	188.91
CL 2	2201+75.00	0.00	--	188.26
CL 3	2202+00.00	0.00	--	187.42
CL 4	2202+25.00	0.00	--	186.52
CL 5	2202+50.00	0.00	--	185.55
CL 6	2202+75.00	0.00	--	184.51
CL 7	2203+00.00	0.00	--	183.43
CL 8	2203+17.00	0.00	--	182.69

"OM-2" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"OM-2" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	2201+55.09	28.48	RT	188.30
RT EP 2	2201+75.00	26.46	RT	187.73
RT EP 3	2202+00.00	24.17	RT	186.94
RT EP 4	2202+25.00	22.17	RT	186.08
RT EP 5	2202+50.00	20.44	RT	185.14
RT EP 6	2202+75.00	19.00	RT	184.13
RT EP 7	2203+00.00	17.81	RT	183.07
RT EP 8	2203+17.56	17.21	RT	182.32

"BD-1" CL

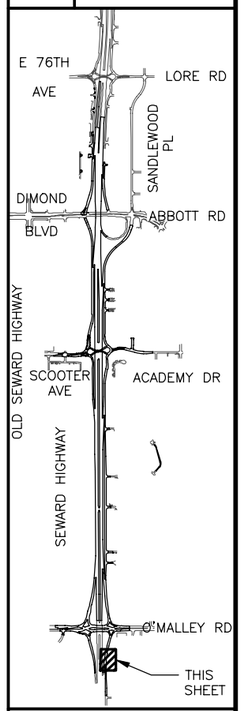
POINT	"OM-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	2201+54.87	24.48	RT	188.38
CL 2	2201+75.00	22.44	RT	187.81
CL 3	2202+00.00	20.16	RT	187.02
CL 4	2202+25.00	18.17	RT	186.16
CL 5	2202+50.00	16.45	RT	185.22
CL 6	2202+75.00	15.01	RT	184.20
CL 7	2203+00.00	13.85	RT	183.15
CL 8	2203+17.43	13.21	RT	182.41

SHEET NO.	TOTAL SHEETS
G01	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"OM-2"/"BD-1" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:55 PM | LAYOUT | G01 | DESIGNED | - | CHECKED | - | DRAFTED | -
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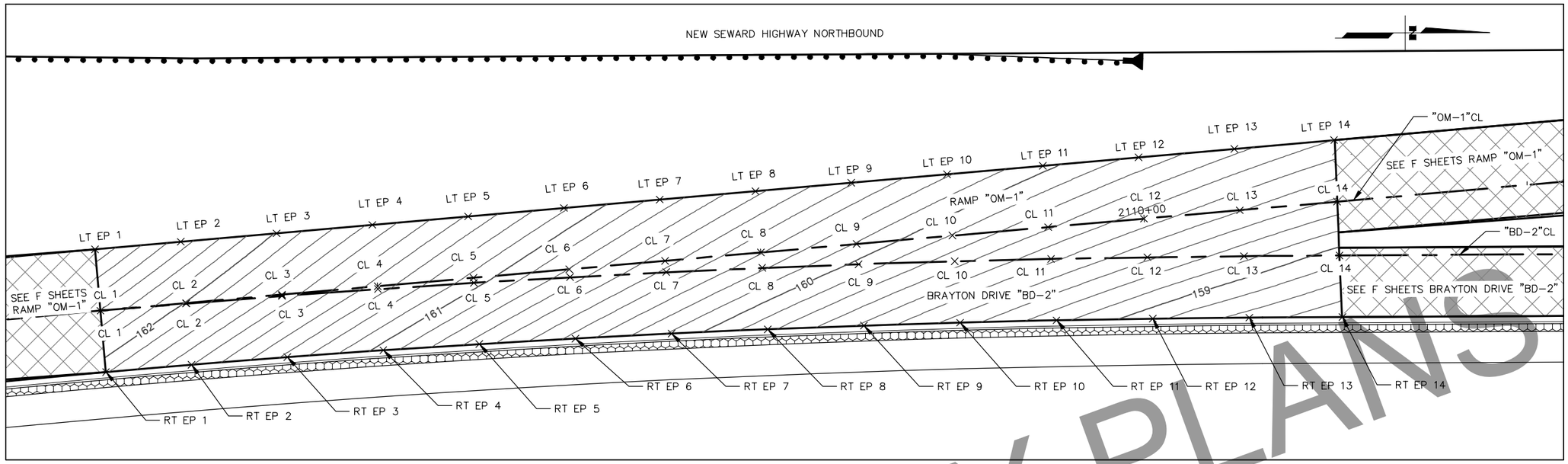


PLAN

0 15 30 45

1"= 15'

"OM-1" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	2107+27.65	16.00	LT	162.68
LT EP 2	2107+50.00	16.00	LT	162.35
LT EP 3	2107+75.00	16.00	LT	161.99
LT EP 4	2108+00.00	16.00	LT	161.68
LT EP 5	2108+25.00	16.00	LT	161.39
LT EP 6	2108+50.00	16.00	LT	161.11
LT EP 7	2108+75.00	16.00	LT	160.86
LT EP 8	2109+00.00	16.00	LT	160.63
LT EP 9	2109+25.00	16.00	LT	160.41
LT EP 10	2109+50.00	16.00	LT	160.21
LT EP 11	2109+75.00	16.00	LT	160.03
LT EP 12	2110+00.00	16.00	LT	159.87
LT EP 13	2110+25.00	16.00	LT	159.73
LT EP 14	2110+51.00	16.00	LT	159.60

"OM-1" CL

POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	2107+27.65	0.00	--	162.30
CL 2	2107+50.00	0.00	--	162.35
CL 3	2107+75.00	0.00	--	161.67
CL 4	2108+00.00	0.00	--	161.36
CL 5	2108+25.00	0.00	--	161.07
CL 6	2108+50.00	0.00	--	160.80
CL 7	2108+75.00	0.00	--	160.54
CL 8	2109+00.00	0.00	--	160.31
CL 9	2109+25.00	0.00	--	160.09
CL 10	2109+50.00	0.00	--	159.89
CL 11	2109+75.00	0.00	--	159.71
CL 12	2110+00.00	0.00	--	159.55
CL 13	2110+25.00	0.00	--	159.41
CL 14	2110+50.35	0.00	--	159.28

"BD-2" CL

POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	2107+27.65	0.00	RT	162.30
CL 2	2107+50.00	0.07	RT	162.35
CL 3	2107+75.00	0.30	RT	161.66
CL 4	2108+00.00	0.71	RT	161.34
CL 5	2108+25.00	1.28	RT	161.04
CL 6	2108+50.00	2.02	RT	160.75
CL 7	2108+75.00	2.94	RT	160.48
CL 8	2109+00.00	4.02	RT	160.22
CL 9	2109+25.00	5.27	RT	159.97
CL 10	2109+50.00	6.69	RT	159.74
CL 11	2109+75.00	8.28	RT	159.52
CL 12	2110+00.00	10.04	RT	159.32
CL 13	2110+25.00	11.97	RT	159.13
CL 14	2110+49.78	14.00	RT	158.95

"OM-1" RIGHT EDGE OF PAVEMENT (RT EP)

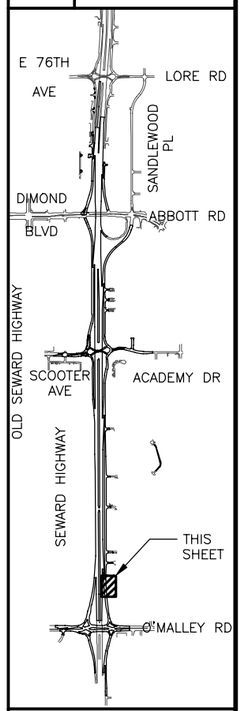
POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	2107+27.66	16.00	RT	161.92
RT EP 2	2107+50.00	16.07	RT	161.61
RT EP 3	2107+75.00	16.30	RT	161.27
RT EP 4	2108+00.00	16.71	RT	160.95
RT EP 5	2108+25.00	17.28	RT	160.65
RT EP 6	2108+50.00	18.03	RT	160.36
RT EP 7	2108+75.00	18.95	RT	160.09
RT EP 8	2109+00.00	20.03	RT	159.83
RT EP 9	2109+25.00	21.29	RT	159.58
RT EP 10	2109+50.00	22.71	RT	159.35
RT EP 11	2109+75.00	24.31	RT	159.13
RT EP 12	2110+00.00	26.07	RT	158.93
RT EP 13	2110+25.00	28.02	RT	158.76
RT EP 14	2110+49.12	30.00	RT	158.61

SHEET NO.	TOTAL SHEETS
G02	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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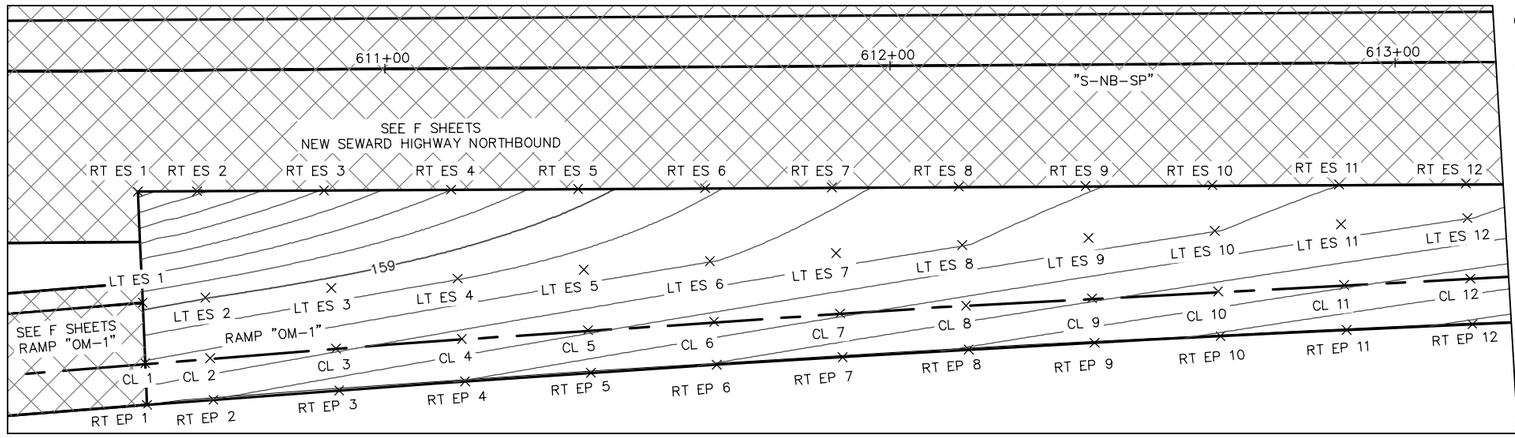
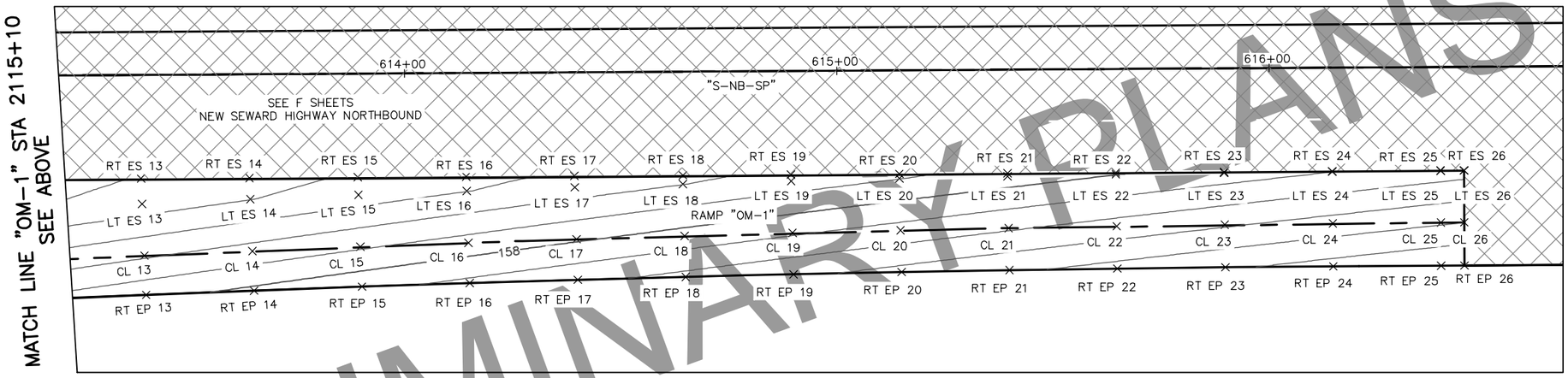
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"OM-1"/"BD-2" GORE
GRADING PLAN

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G02_GRADING.DWG | DATE/TIME 4/5/2022 5:55 PM | LAYOUT G02 | DESIGNED - | CHECKED - | DRAFTED -





PLAN

0 15 30 45

1"= 15'

"OM-1" LEFT EDGE OF SHOULDER (LT ES)

POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	2112+37.57	12.00	LT	159.03
LT ES 2	2112+50.00	12.00	LT	159.00
LT ES 3	2112+75.00	12.00	LT	158.95
LT ES 4	2113+00.00	12.00	LT	158.90
LT ES 5	2113+25.00	12.00	LT	158.85
LT ES 6	2113+50.00	12.00	LT	158.80
LT ES 7	2113+75.00	12.00	LT	158.75
LT ES 8	2114+00.00	12.00	LT	158.70
LT ES 9	2114+25.00	12.00	LT	158.65
LT ES 10	2114+50.00	12.00	LT	158.60
LT ES 11	2114+75.00	12.00	LT	158.55
LT ES 12	2115+00.00	12.00	LT	158.50
LT ES 13	2115+25.00	12.00	LT	158.45
LT ES 14	2115+50.00	12.00	LT	158.40
LT ES 15	2115+75.00	12.00	LT	158.35
LT ES 16	2116+00.00	12.00	LT	158.30
LT ES 17	2116+25.00	12.00	LT	158.25
LT ES 18	2116+50.00	12.00	LT	158.20
LT ES 19	2116+75.00	12.00	LT	158.15
LT ES 20	2117+00.00	12.00	LT	158.10
LT ES 21	2117+25.00	12.00	LT	158.05
LT ES 22	2117+50.00	12.00	LT	158.00
LT ES 23	2117+75.00	12.00	LT	157.95
LT ES 24	2118+00.00	12.00	LT	157.90
LT ES 25	2118+25.00	12.00	LT	157.85
LT ES 26	2118+30.41	12.00	LT	157.83

"OM-1" CL

POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	2112+37.12	0.00	--	158.79
CL 2	2112+50.00	0.00	--	158.76
CL 3	2112+75.00	0.00	--	158.71
CL 4	2113+00.00	0.00	--	158.66
CL 5	2113+25.00	0.00	--	158.61
CL 6	2113+50.00	0.00	--	158.56
CL 7	2113+75.00	0.00	--	158.51
CL 8	2114+00.00	0.00	--	158.46
CL 9	2114+25.00	0.00	--	158.41
CL 10	2114+50.00	0.00	--	158.36
CL 11	2114+75.00	0.00	--	158.31
CL 12	2115+00.00	0.00	--	158.26
CL 13	2115+25.00	0.00	--	158.21
CL 14	2115+50.00	0.00	--	158.16
CL 15	2115+75.00	0.00	--	158.11
CL 16	2116+00.00	0.00	--	158.06
CL 17	2116+25.00	0.00	--	158.01
CL 18	2116+50.00	0.00	--	157.96
CL 19	2116+75.00	0.00	--	157.91
CL 20	2117+00.00	0.00	--	157.86
CL 21	2117+25.00	0.00	--	157.81
CL 22	2117+50.00	0.00	--	157.76
CL 23	2117+75.00	0.00	--	157.71
CL 24	2118+00.00	0.00	--	157.66
CL 25	2118+25.00	0.00	--	157.61
CL 26	2118+30.41	0.00	--	157.60

"OM-1" RIGHT EDGE OF PAVEMENT (RT EP)

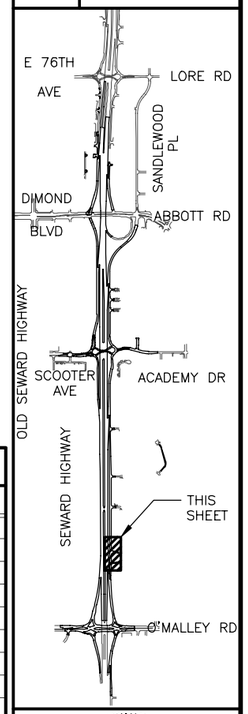
POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	2112+36.82	8.22	RT	158.63
RT EP 2	2112+50.00	8.26	RT	158.60
RT EP 3	2112+75.00	8.34	RT	158.55
RT EP 4	2113+00.00	8.41	RT	158.50
RT EP 5	2113+25.00	8.49	RT	158.44
RT EP 6	2113+50.00	8.57	RT	158.39
RT EP 7	2113+75.00	8.64	RT	158.34
RT EP 8	2114+00.00	8.72	RT	158.29
RT EP 9	2114+25.00	8.80	RT	158.24
RT EP 10	2114+50.00	8.87	RT	158.19
RT EP 11	2114+75.00	8.95	RT	158.13
RT EP 12	2115+00.00	9.02	RT	158.08
RT EP 13	2115+25.00	9.10	RT	158.03
RT EP 14	2115+50.00	9.18	RT	157.98
RT EP 15	2115+75.00	9.26	RT	157.93
RT EP 16	2116+00.00	9.33	RT	157.88
RT EP 17	2116+25.00	9.41	RT	157.82
RT EP 18	2116+50.00	9.49	RT	157.77
RT EP 19	2116+75.00	9.56	RT	157.72
RT EP 20	2117+00.00	9.64	RT	157.67
RT EP 21	2117+25.00	9.71	RT	157.62
RT EP 22	2117+50.00	9.79	RT	157.57
RT EP 23	2117+75.00	9.86	RT	157.51
RT EP 24	2118+00.00	9.94	RT	157.46
RT EP 25	2118+25.00	10.00	RT	157.41
RT EP 26	2118+30.41	10.00	RT	157.40

"S-NB-SP" RIGHT EDGE OF SHOULDER (RT ES)

POINT	"OM-1" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	2112+38.38	34.00	LT	159.73
RT ES 2	2112+50.00	33.13	LT	159.62
RT ES 3	2112+75.00	31.35	LT	159.39
RT ES 4	2113+00.00	29.64	LT	159.20
RT ES 5	2113+25.00	28.02	LT	159.04
RT ES 6	2113+50.00	26.46	LT	158.91
RT ES 7	2113+75.00	25.00	LT	158.82
RT ES 8	2114+00.00	23.61	LT	158.76
RT ES 9	2114+25.00	22.30	LT	158.71
RT ES 10	2114+50.00	21.07	LT	158.65
RT ES 11	2114+75.00	19.91	LT	158.60
RT ES 12	2115+00.00	18.84	LT	158.55
RT ES 13	2115+25.00	17.84	LT	158.49
RT ES 14	2115+50.00	16.92	LT	158.44
RT ES 15	2115+75.00	16.08	LT	158.39
RT ES 16	2116+00.00	15.32	LT	158.32
RT ES 17	2116+25.00	14.64	LT	158.28
RT ES 18	2116+50.00	14.04	LT	158.23
RT ES 19	2116+75.00	13.51	LT	158.17
RT ES 20	2117+00.00	13.06	LT	158.12
RT ES 21	2117+25.00	12.69	LT	158.07
RT ES 22	2117+50.00	12.41	LT	158.01
RT ES 23	2117+75.00	12.19	LT	157.95
RT ES 24	2118+00.00	12.06	LT	157.91
RT ES 25	2118+25.00	12.00	LT	157.85
RT ES 26	2118+30.40	12.00	LT	157.83

SHEET NO.	TOTAL SHEETS
G03	G20
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"OM-1"/"S-NB-SP" GORE GRADING PLAN

DATE/TIME | 4/5/2022 5:55 PM | LAYOUT | G03 | DESIGNED | - | CHECKED | - | DRAFTED | -

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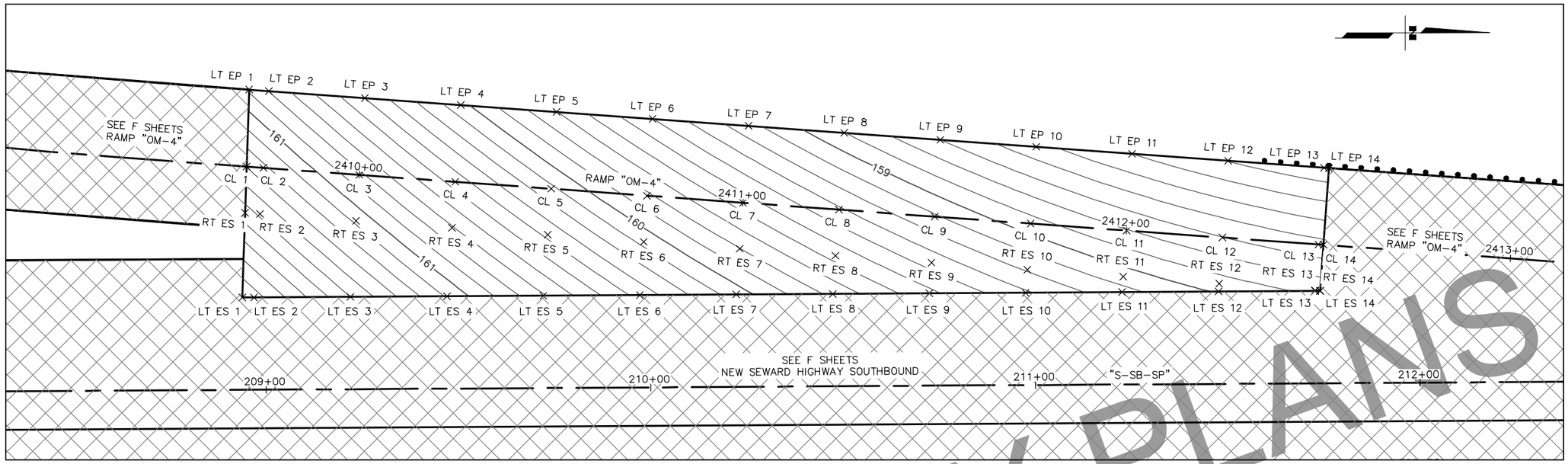


PLAN

0 15 30 45

1"= 15'

"OM-4" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"OM-4" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	2409+71.25	20.00	LT	160.91
LT EP 2	2409+75.00	20.00	LT	160.83
LT EP 3	2410+00.00	20.00	LT	160.43
LT EP 4	2410+25.00	20.00	LT	160.05
LT EP 5	2410+50.00	20.00	LT	159.70
LT EP 6	2410+75.00	20.00	LT	159.40
LT EP 7	2411+00.00	20.00	LT	159.16
LT EP 8	2411+25.00	20.00	LT	158.92
LT EP 9	2411+50.00	20.00	LT	158.72
LT EP 10	2411+75.00	20.00	LT	158.55
LT EP 11	2412+00.00	20.00	LT	158.40
LT EP 12	2412+25.00	20.00	LT	158.31
LT EP 13	2412+50.00	20.00	LT	158.24
LT EP 14	2412+51.33	20.00	LT	158.23

"OM-4" CL

POINT	"OM-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	2409+71.25	0.00	--	161.29
CL 2	2409+75.00	0.00	--	161.23
CL 3	2410+00.00	0.00	--	160.83
CL 4	2410+25.00	0.00	--	160.46
CL 5	2410+50.00	0.00	--	160.13
CL 6	2410+75.00	0.00	--	159.83
CL 7	2411+00.00	0.00	--	159.56
CL 8	2411+25.00	0.00	--	159.32
CL 9	2411+50.00	0.00	--	159.12
CL 10	2411+75.00	0.00	--	158.95
CL 11	2412+00.00	0.00	--	158.81
CL 12	2412+25.00	0.00	--	158.70
CL 13	2412+50.00	0.00	--	158.63
CL 14	2412+51.33	0.00	--	158.63

"OM-4" RIGHT EDGE OF SHOULDER (RT ES)

POINT	"OM-4" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	2409+71.09	12.00	RT	161.53
RT ES 2	2409+75.00	12.00	RT	161.47
RT ES 3	2410+00.00	12.00	RT	161.07
RT ES 4	2410+25.00	12.00	RT	160.70
RT ES 5	2410+50.00	12.00	RT	160.37
RT ES 6	2410+75.00	12.00	RT	160.06
RT ES 7	2411+00.00	12.00	RT	159.80
RT ES 8	2411+25.00	12.00	RT	159.56
RT ES 9	2411+50.00	12.00	RT	159.36
RT ES 10	2411+75.00	12.00	RT	159.19
RT ES 11	2412+00.00	12.00	RT	159.05
RT ES 12	2412+25.00	12.00	RT	158.94
RT ES 13	2412+50.00	12.00	RT	158.87
RT ES 14	2412+51.33	12.00	RT	158.86

"S-SB-SP" LEFT EDGE OF SHOULDER (LT ES)

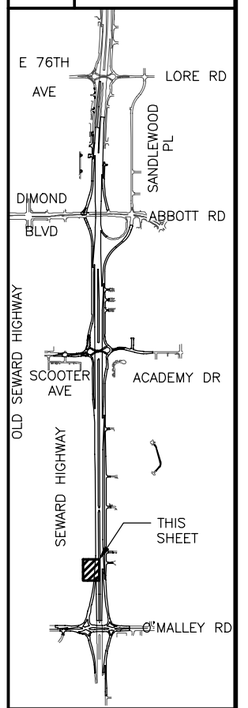
POINT	"OM-4" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	2409+71.95	33.99	RT	162.00
LT ES 2	2409+75.00	33.75	RT	161.94
LT ES 3	2410+00.00	31.78	RT	161.50
LT ES 4	2410+25.00	29.81	RT	161.09
LT ES 5	2410+50.00	27.85	RT	160.71
LT ES 6	2410+75.00	25.88	RT	160.36
LT ES 7	2411+00.00	23.91	RT	160.04
LT ES 8	2411+25.00	21.94	RT	159.77
LT ES 9	2411+50.00	19.98	RT	159.50
LT ES 10	2411+75.00	18.01	RT	159.31
LT ES 11	2412+00.00	16.04	RT	159.12
LT ES 12	2412+25.00	14.07	RT	158.98
LT ES 13	2412+50.00	12.11	RT	158.87
LT ES 14	2412+51.33	12.00	RT	158.86

SHEET NO.	TOTAL SHEETS
G04	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"OM-4"/"S-SB-SP" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:55 PM | LAYOUT | G04 | DESIGNED | - | CHECKED | - | DRAFTED | -

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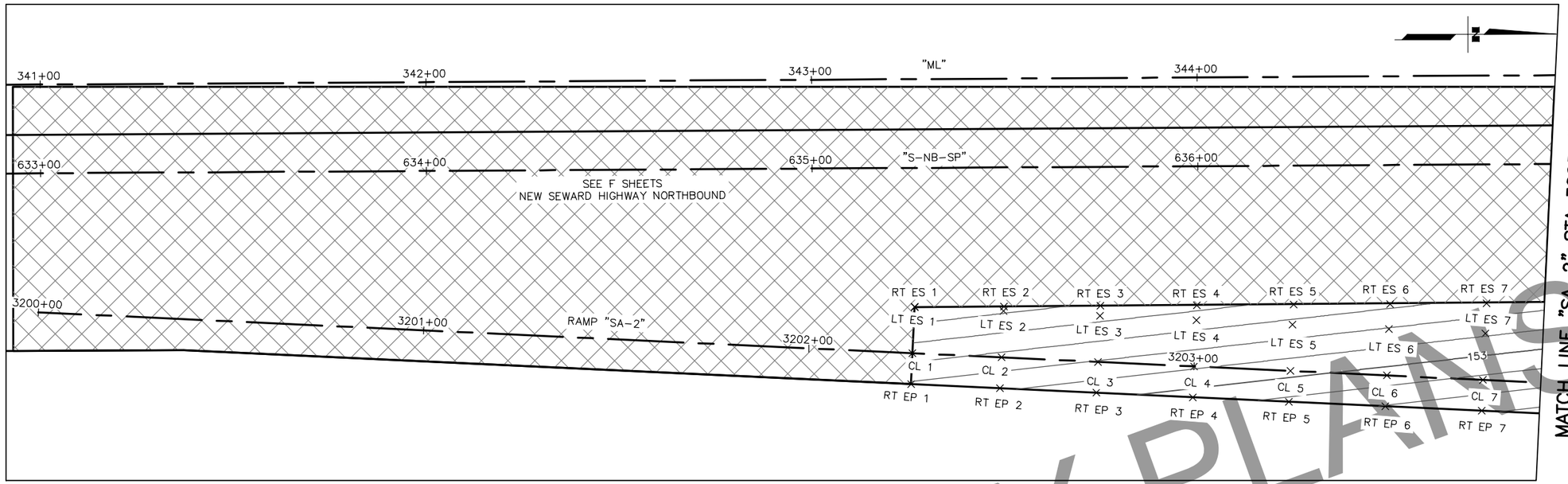
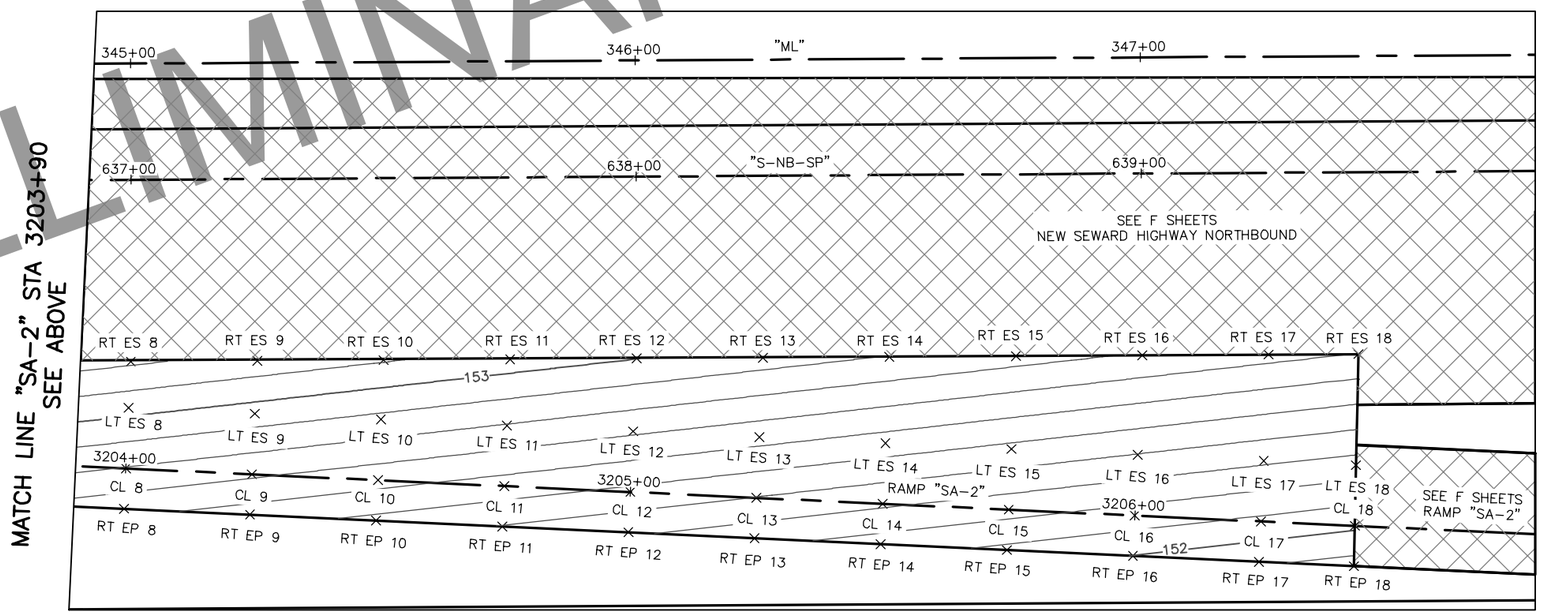


PLAN

0 15 30 45

1"= 15'



PLAN

0 15 30 45

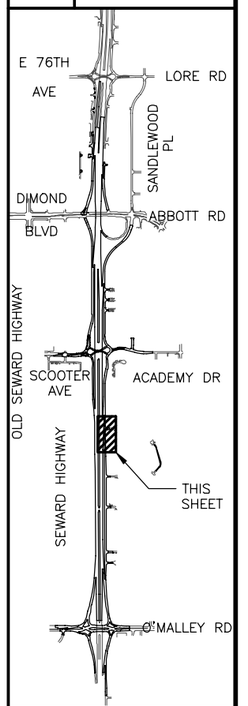
1"= 15'

SHEET NO.	TOTAL SHEETS
G05	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"SA-2"/"S-NB-SP" GORE
GRADING PLAN

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G05_GRADING.DWG | DATE/TIME 4/5/2022 5:55 PM | LAYOUT G05 | DESIGNED - | CHECKED - | DRAFTED -

"SA-2" LEFT EDGE OF SHOULDER (LT ES)

POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	3202+26.88	12.00	LT	153.58
LT ES 2	3202+50.00	12.00	LT	153.51
LT ES 3	3202+75.00	12.00	LT	153.43
LT ES 4	3203+00.00	12.00	LT	153.35
LT ES 5	3203+25.00	12.00	LT	153.27
LT ES 6	3203+50.00	12.00	LT	153.19
LT ES 7	3203+75.00	12.00	LT	153.11
LT ES 8	3204+00.00	12.00	LT	153.03
LT ES 9	3204+25.00	12.00	LT	152.95
LT ES 10	3204+50.00	12.00	LT	152.87
LT ES 11	3204+75.00	12.00	LT	152.79
LT ES 12	3205+00.00	12.00	LT	152.71
LT ES 13	3205+25.00	12.00	LT	152.64
LT ES 14	3205+50.00	12.00	LT	152.56
LT ES 15	3205+75.00	12.00	LT	152.48
LT ES 16	3206+00.00	12.00	LT	152.4
LT ES 17	3206+25.00	12.00	LT	152.32
LT ES 18	3206+43.20	12.00	LT	152.26

"SA-2" CL

POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3202+26.88	0.00	--	153.35
CL 2	3202+50.00	0.00	--	153.27
CL 3	3202+75.00	0.00	--	153.19
CL 4	3203+00.00	0.00	--	153.11
CL 5	3203+25.00	0.00	--	153.03
CL 6	3203+50.00	0.00	--	152.95
CL 7	3203+75.00	0.00	--	152.87
CL 8	3204+00.00	0.00	--	152.80
CL 9	3204+25.00	0.00	--	152.72
CL 10	3204+50.00	0.00	--	152.64
CL 11	3204+75.00	0.00	--	152.56
CL 12	3205+00.00	0.00	--	152.48
CL 13	3205+25.00	0.00	--	152.40
CL 14	3205+50.00	0.00	--	152.32
CL 15	3205+75.00	0.00	--	152.24
CL 16	3206+00.00	0.00	--	152.16
CL 17	3206+25.00	0.00	--	152.08
CL 18	3206+43.62	0.00	--	152.02

"SA-2" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	3202+26.88	8.00	RT	153.19
RT EP 2	3202+50.00	8.00	RT	153.11
RT EP 3	3202+75.00	8.00	RT	153.03
RT EP 4	3203+00.00	8.00	RT	152.95
RT EP 5	3203+25.00	8.00	RT	152.88
RT EP 6	3203+50.00	8.00	RT	152.80
RT EP 7	3203+75.00	8.00	RT	152.71
RT EP 8	3204+00.00	8.00	RT	152.64
RT EP 9	3204+25.00	8.00	RT	152.56
RT EP 10	3204+50.00	8.00	RT	152.48
RT EP 11	3204+75.00	8.00	RT	152.40
RT EP 12	3205+00.00	8.00	RT	152.32
RT EP 13	3205+25.00	8.00	RT	152.24
RT EP 14	3205+50.00	8.00	RT	152.16
RT EP 15	3205+75.00	8.00	RT	152.08
RT EP 16	3206+00.00	8.00	RT	152.00
RT EP 17	3206+25.00	8.00	RT	151.92
RT EP 18	3206+43.83	8.00	RT	151.86

"S-NB-SP" RIGHT EDGE OF SHOULDER (RT ES)

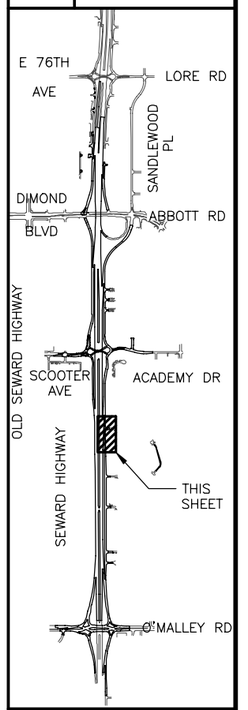
POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	3202+26.88	12.00	LT	153.58
RT ES 2	3202+50.00	13.22	LT	153.54
RT ES 3	3202+75.00	14.55	LT	153.48
RT ES 4	3203+00.00	15.87	LT	153.43
RT ES 5	3203+25.00	17.19	LT	153.37
RT ES 6	3203+50.00	18.51	LT	153.32
RT ES 7	3203+75.00	19.83	LT	153.27
RT ES 8	3204+00.00	21.16	LT	153.21
RT ES 9	3204+25.00	22.48	LT	153.16
RT ES 10	3204+50.00	23.80	LT	153.11
RT ES 11	3204+75.00	25.12	LT	153.05
RT ES 12	3205+00.00	26.45	LT	153.00
RT ES 13	3205+25.00	27.77	LT	152.94
RT ES 14	3205+50.00	29.09	LT	152.90
RT ES 15	3205+75.00	30.41	LT	152.84
RT ES 16	3206+00.00	31.73	LT	152.79
RT ES 17	3206+25.00	33.06	LT	152.73
RT ES 18	3206+42.72	34.00	LT	152.70

SHEET NO.	TOTAL SHEETS
G06	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"SA-2"/"S-NB-SP" GORE
GRADING TABLES

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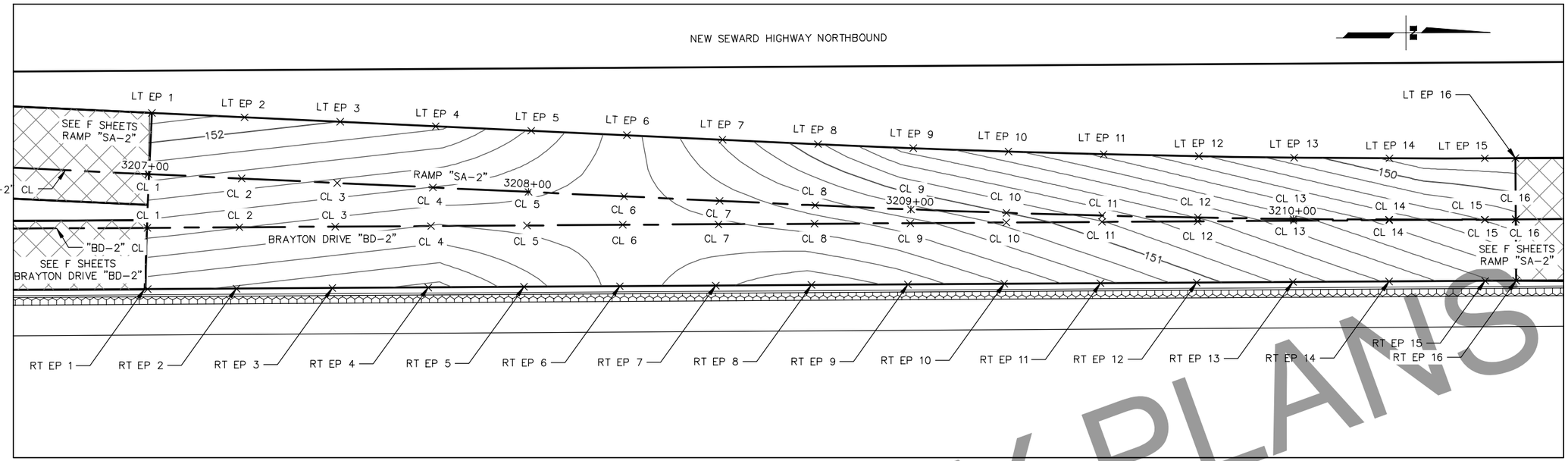


PLAN

0 15 30 45

1"= 15'

"SA-2" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	3207+00.79	16.00	LT	152.16
LT EP 2	3207+25.00	16.00	LT	152.08
LT EP 3	3207+50.00	16.00	LT	152.00
LT EP 4	3207+75.00	16.00	LT	151.92
LT EP 5	3208+00.00	16.00	LT	151.69
LT EP 6	3208+25.00	16.00	LT	151.44
LT EP 7	3208+50.00	16.00	LT	151.18
LT EP 8	3208+75.00	16.00	LT	150.92
LT EP 9	3209+00.00	16.00	LT	150.65
LT EP 10	3209+25.00	16.00	LT	150.52
LT EP 11	3209+50.00	16.00	LT	150.38
LT EP 12	3209+75.00	16.00	LT	150.22
LT EP 13	3210+00.00	16.00	LT	150.05
LT EP 14	3210+25.00	16.00	LT	149.88
LT EP 15	3210+50.00	16.00	LT	149.82
LT EP 16	3210+58.04	16.00	LT	149.82

"SA-2" CL

POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3207+00.58	0.00	--	151.84
CL 2	3207+25.00	0.00	--	151.76
CL 3	3207+50.00	0.00	--	151.68
CL 4	3207+75.00	0.00	--	151.60
CL 5	3208+00.00	0.00	--	151.52
CL 6	3208+25.00	0.00	--	151.44
CL 7	3208+50.00	0.00	--	151.35
CL 8	3208+75.00	0.00	--	151.25
CL 9	3209+00.00	0.00	--	151.13
CL 10	3209+25.00	0.00	--	151.00
CL 11	3209+50.00	0.00	--	150.86
CL 12	3209+75.00	0.00	--	150.70
CL 13	3210+00.00	0.00	--	150.53
CL 14	3210+25.00	0.00	--	150.36
CL 15	3210+50.00	0.00	--	150.19
CL 16	3210+58.04	0.00	--	150.14

"SA-2" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	3207+01.85	30.07	RT	151.23
RT EP 2	3207+25.00	28.79	RT	151.19
RT EP 3	3207+50.00	27.46	RT	151.13
RT EP 4	3207+75.00	26.13	RT	151.08
RT EP 5	3208+00.00	24.80	RT	151.26
RT EP 6	3208+25.00	23.47	RT	151.43
RT EP 7	3208+50.00	22.14	RT	151.58
RT EP 8	3208+75.00	20.81	RT	151.67
RT EP 9	3209+00.00	19.59	RT	151.56
RT EP 10	3209+25.00	18.54	RT	151.40
RT EP 11	3209+50.00	17.68	RT	151.23
RT EP 12	3209+75.00	16.99	RT	151.05
RT EP 13	3210+00.00	16.48	RT	150.87
RT EP 14	3210+25.00	16.16	RT	150.69
RT EP 15	3210+50.00	16.01	RT	150.51
RT EP 16	3210+58.04	16.00	RT	150.46

"BD-2" CL

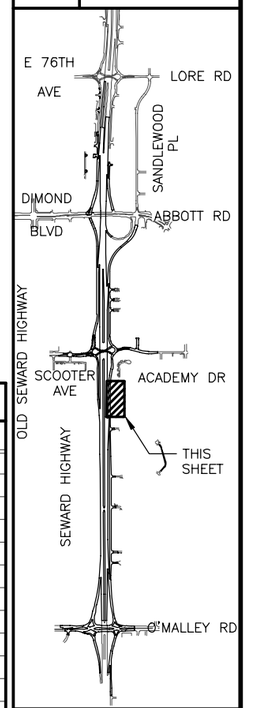
POINT	"SA-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3207+01.00	14.00	RT	151.56
CL 2	3207+25.00	12.73	RT	151.50
CL 3	3207+50.00	11.40	RT	151.45
CL 4	3207+75.00	10.08	RT	151.40
CL 5	3208+00.00	8.76	RT	151.43
CL 6	3208+25.00	7.44	RT	151.44
CL 7	3208+50.00	6.11	RT	151.41
CL 8	3208+75.00	4.79	RT	151.35
CL 9	3209+00.00	3.57	RT	151.24
CL 10	3209+25.00	2.53	RT	151.08
CL 11	3209+50.00	1.67	RT	150.91
CL 12	3209+75.00	0.99	RT	150.73
CL 13	3210+00.00	0.48	RT	150.54
CL 14	3210+25.00	0.16	RT	150.37
CL 15	3210+50.00	0.01	RT	150.19
CL 16	3210+58.04	0.00	RT	150.14

SHEET NO.	TOTAL SHEETS
G07	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

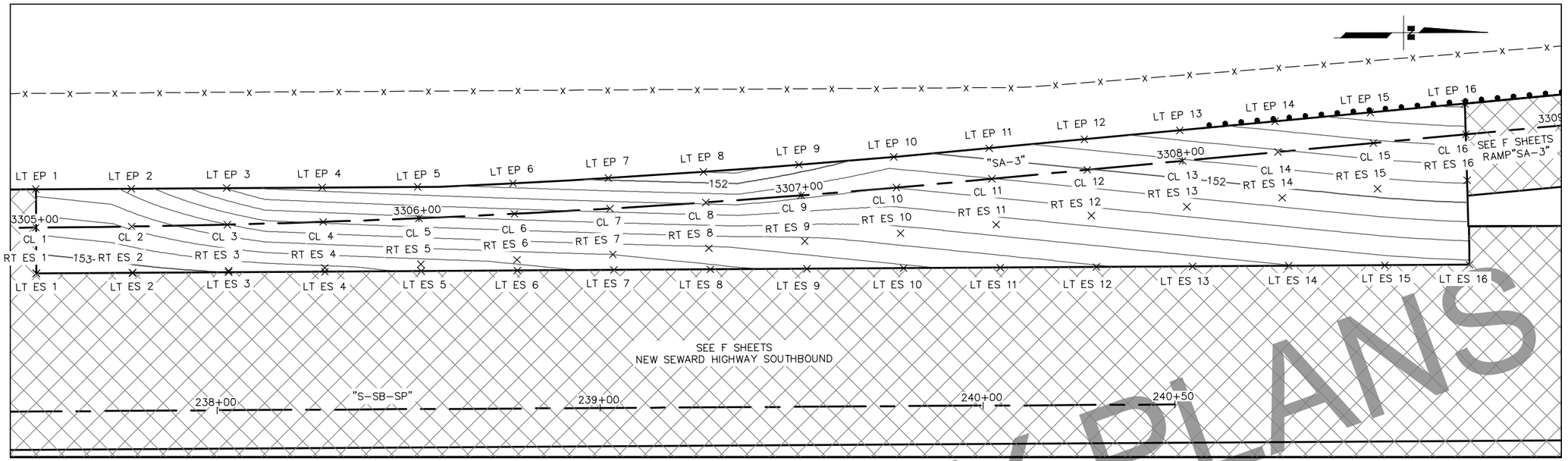
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"SA-2"/"BD-2" GORE GRADING PLAN

DATE/TIME | 4/5/2022 5:56 PM | LAYOUT | G07 | DESIGNED | - | CHECKED | - | DRAFTED | -
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G07_GRADING.DWG



PLAN

0 15 30 45

1"= 15'

"SA-3" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"SA-3" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	3305+00.00	10.00	LT	152.66
LT EP 2	3305+25.00	9.89	LT	152.77
LT EP 3	3305+50.00	9.55	LT	152.70
LT EP 4	3305+75.00	8.99	LT	152.63
LT EP 5	3306+00.00	8.21	LT	152.57
LT EP 6	3306+25.00	8.00	LT	152.06
LT EP 7	3306+50.00	8.00	LT	151.98
LT EP 8	3306+75.00	8.00	LT	151.90
LT EP 9	3307+00.00	8.00	LT	151.94
LT EP 10	3307+25.00	8.00	LT	152.04
LT EP 11	3307+50.00	8.00	LT	151.94
LT EP 12	3307+75.00	8.00	LT	151.85
LT EP 13	3308+00.00	8.00	LT	151.75
LT EP 14	3308+25.00	8.00	LT	151.65
LT EP 15	3308+50.00	8.00	LT	151.56
LT EP 16	3308+74.80	8.00	LT	151.48

"S-SB-SP" LEFT EDGE OF SHOULDER (LT ES)

POINT	"SA-3" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	3305+00.00	12.00	RT	153.10
LT ES 2	3305+25.00	12.11	RT	153.05
LT ES 3	3305+50.00	12.45	RT	152.99
LT ES 4	3305+75.00	13.01	RT	152.94
LT ES 5	3306+00.00	13.80	RT	152.89
LT ES 6	3306+25.00	14.82	RT	152.83
LT ES 7	3306+50.00	16.06	RT	152.78
LT ES 8	3306+75.00	17.52	RT	152.73
LT ES 9	3307+00.00	19.22	RT	152.67
LT ES 10	3307+25.00	21.14	RT	152.62
LT ES 11	3307+50.00	23.28	RT	152.56
LT ES 12	3307+75.00	25.47	RT	152.51
LT ES 13	3308+00.00	27.66	RT	152.47
LT ES 14	3308+25.00	29.85	RT	152.40
LT ES 15	3308+50.00	32.04	RT	152.36
LT ES 16	3308+71.83	33.95	RT	152.32

"SA-3" CL

POINT	"SA-3" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3305+00.00	0.00	--	152.86
CL 2	3305+25.00	0.00	--	152.78
CL 3	3305+50.00	0.00	--	152.60
CL 4	3305+75.00	0.00	--	152.49
CL 5	3306+00.00	0.00	--	152.42
CL 6	3306+25.00	0.00	--	152.35
CL 7	3306+50.00	0.00	--	152.27
CL 8	3306+75.00	0.00	--	152.18
CL 9	3307+00.00	0.00	--	152.18
CL 10	3307+25.00	0.00	--	152.20
CL 11	3307+50.00	0.00	--	152.10
CL 12	3307+75.00	0.00	--	152.01
CL 13	3308+00.00	0.00	--	151.91
CL 14	3308+25.00	0.00	--	151.81
CL 15	3308+50.00	0.00	--	151.72
CL 16	3308+73.22	0.00	--	151.64

"SA-3" RIGHT EDGE OF SHOULDER (RT ES)

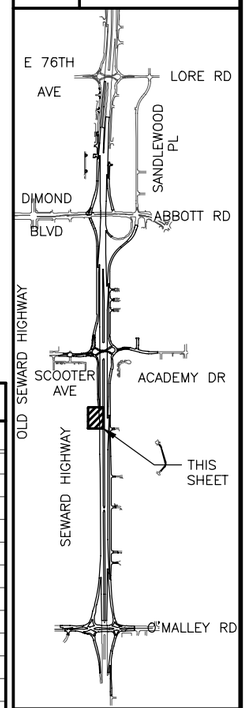
POINT	"SA-3" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	3305+00.00	12.00	RT	153.10
RT ES 2	3305+25.00	12.00	RT	153.05
RT ES 3	3305+50.00	12.00	RT	152.99
RT ES 4	3305+75.00	12.00	RT	152.92
RT ES 5	3306+00.00	12.00	RT	152.85
RT ES 6	3306+25.00	12.00	RT	152.78
RT ES 7	3306+50.00	12.00	RT	152.70
RT ES 8	3306+75.00	12.00	RT	152.62
RT ES 9	3307+00.00	12.00	RT	152.53
RT ES 10	3307+25.00	12.00	RT	152.44
RT ES 11	3307+50.00	12.00	RT	152.34
RT ES 12	3307+75.00	12.00	RT	152.25
RT ES 13	3308+00.00	12.00	RT	152.15
RT ES 14	3308+25.00	12.00	RT	152.05
RT ES 15	3308+50.00	12.00	RT	151.96
RT ES 16	3308+73.49	12.00	RT	151.88

SHEET NO.	TOTAL SHEETS
G08	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

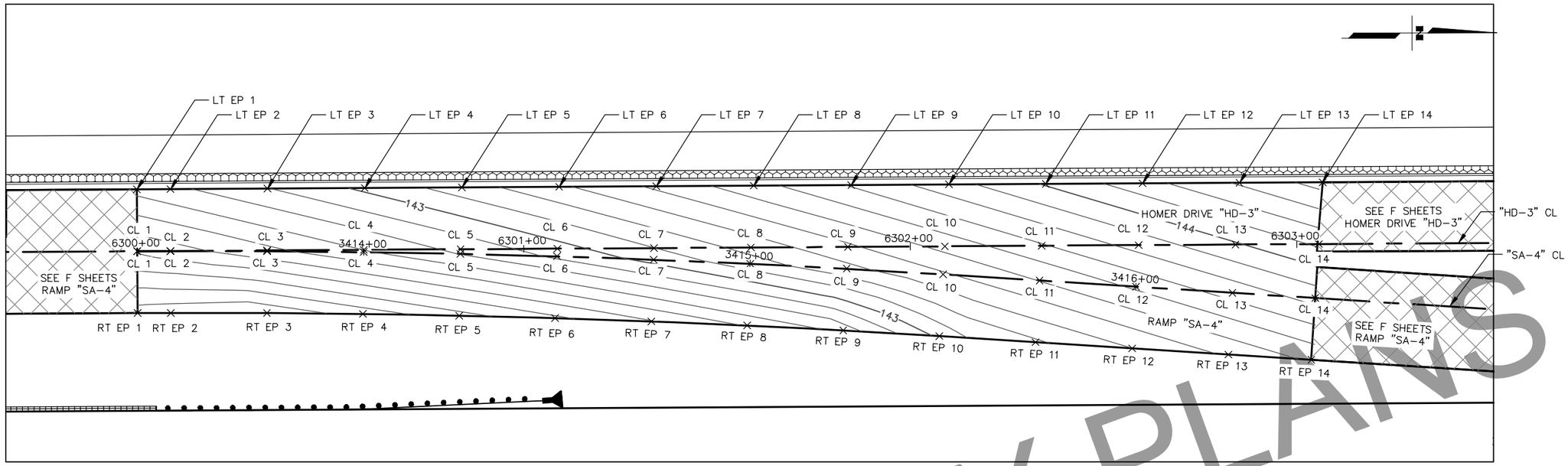
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"SA-3"/"S-SB-SP" GORE
GRADING PLAN

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G08_GRADING.DWG | DATE/TIME 4/5/2022 5:56 PM | LAYOUT G08 | DESIGNED - | CHECKED - | DRAFTED -



PLAN

0 15 30 45

1"= 15'

"SA-4" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	3413+41.37	16.00	LT	142.73
LT EP 2	3413+50.00	16.01	LT	142.78
LT EP 3	3413+75.00	16.19	LT	142.90
LT EP 4	3414+00.00	16.58	LT	143.02
LT EP 5	3414+25.00	17.17	LT	143.15
LT EP 6	3414+50.00	17.98	LT	143.28
LT EP 7	3414+75.00	18.99	LT	143.42
LT EP 8	3415+00.00	20.22	LT	143.56
LT EP 9	3415+25.00	21.66	LT	143.71
LT EP 10	3415+50.00	23.31	LT	143.86
LT EP 11	3415+75.00	25.05	LT	144.01
LT EP 12	3416+00.00	26.78	LT	144.16
LT EP 13	3416+25.00	28.51	LT	144.31
LT EP 14	3416+46.47	29.99	LT	144.43

"SA-4" CL

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3413+41.37	0.00	--	142.41
CL 2	3413+50.00	0.00	--	142.45
CL 3	3413+75.00	0.00	--	142.57
CL 4	3414+00.00	0.00	--	142.69
CL 5	3414+25.00	0.00	--	142.80
CL 6	3414+50.00	0.00	--	142.92
CL 7	3414+75.00	0.00	--	143.04
CL 8	3415+00.00	0.00	--	143.15
CL 9	3415+25.00	0.00	--	143.27
CL 10	3415+50.00	0.00	--	143.39
CL 11	3415+75.00	0.00	--	143.50
CL 12	3416+00.00	0.00	--	143.62
CL 13	3416+25.00	0.00	--	143.74
CL 14	3416+46.47	0.00	--	143.84

"HD-3" CL

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3413+41.37	0.00	LT	142.41
CL 2	3413+50.00	0.01	LT	142.45
CL 3	3413+75.00	0.19	LT	142.58
CL 4	3414+00.00	0.57	LT	142.70
CL 5	3414+25.00	1.17	LT	142.83
CL 6	3414+50.00	1.97	LT	142.96
CL 7	3414+75.00	2.98	LT	143.10
CL 8	3415+00.00	4.20	LT	143.24
CL 9	3415+25.00	5.63	LT	143.38
CL 10	3415+50.00	7.27	LT	143.53
CL 11	3415+75.00	9.02	LT	143.68
CL 12	3416+00.00	10.77	LT	143.83
CL 13	3416+25.00	12.51	LT	143.99
CL 14	3416+46.47	14.00	LT	144.11

"SA-4" RIGHT EDGE OF PAVEMENT (RT EP)

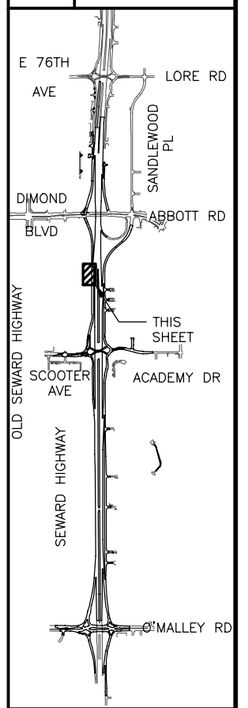
POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	3413+41.37	16.00	RT	142.05
RT EP 2	3413+50.00	16.00	RT	142.04
RT EP 3	3413+75.00	16.00	RT	142.03
RT EP 4	3414+00.00	16.00	RT	142.14
RT EP 5	3414+25.00	16.00	RT	142.27
RT EP 6	3414+50.00	16.00	RT	142.38
RT EP 7	3414+75.00	16.00	RT	142.50
RT EP 8	3415+00.00	16.00	RT	142.62
RT EP 9	3415+25.00	16.00	RT	142.75
RT EP 10	3415+50.00	16.00	RT	143.03
RT EP 11	3415+75.00	16.00	RT	143.18
RT EP 12	3416+00.00	16.00	RT	143.30
RT EP 13	3416+25.00	16.00	RT	143.42
RT EP 14	3416+46.47	16.00	RT	143.52

SHEET NO.	TOTAL SHEETS
G09	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"SA-4"/"HD-3" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:56 PM | LAYOUT | G09 | DESIGNED | - | CHECKED | - | DRAFTED | -

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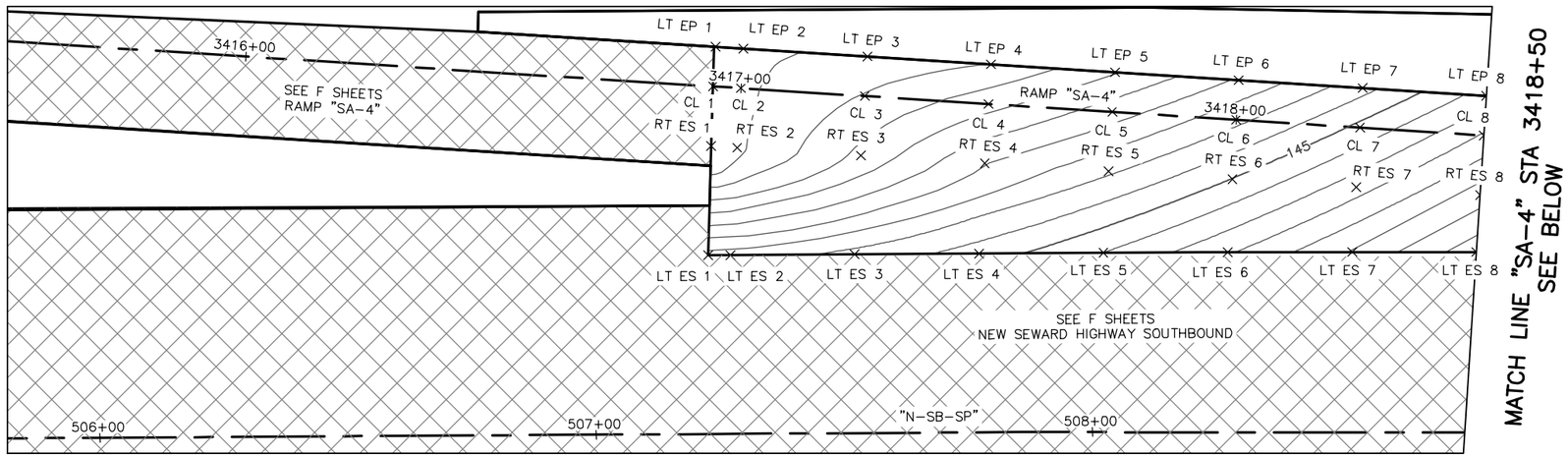

PLAN

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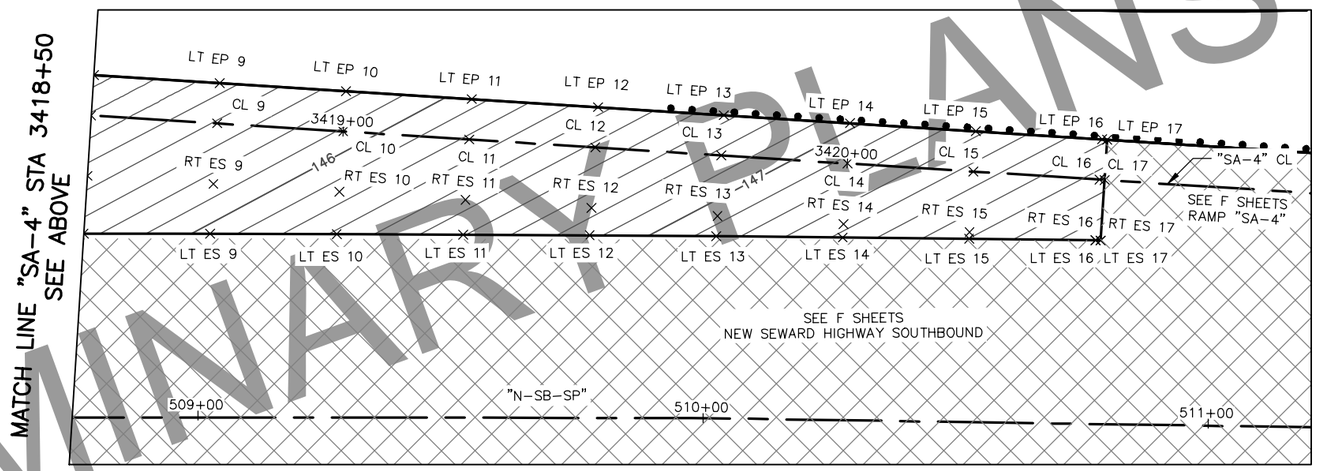
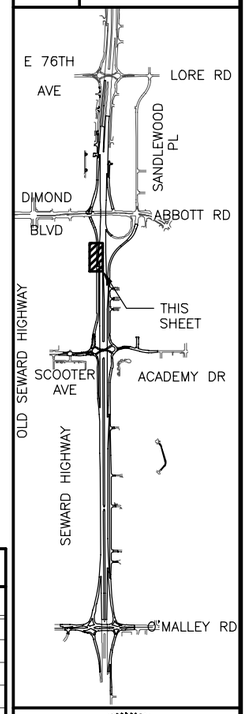
1"= 15'





SHEET NO.	TOTAL SHEETS
G10	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"SA-4"/"N-SB-SP" GORE
GRADING PLAN

"N-SB-SP" LEFT EDGE OF SHOULDER (LT ES)

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	3416+95.87	33.97	RT	144.73
LT ES 2	3417+00.00	33.68	RT	144.76
LT ES 3	3417+25.00	31.93	RT	144.83
LT ES 4	3417+50.00	30.18	RT	144.95
LT ES 5	3417+75.00	28.44	RT	145.08
LT ES 6	3418+00.00	26.74	RT	145.28
LT ES 7	3418+25.00	25.09	RT	145.50
LT ES 8	3418+50.00	23.47	RT	145.75
LT ES 9	3418+75.00	21.90	RT	146.04
LT ES 10	3419+00.00	20.37	RT	146.32
LT ES 11	3419+25.00	18.88	RT	146.59
LT ES 12	3419+50.00	17.43	RT	146.86
LT ES 13	3419+75.00	16.02	RT	147.14
LT ES 14	3420+00.00	14.66	RT	147.42
LT ES 15	3420+25.00	13.33	RT	147.69
LT ES 16	3420+50.00	12.05	RT	147.98
LT ES 17	3420+51.03	12.00	RT	147.99

"SA-4" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	3416+94.34	8.00	LT	144.08
LT EP 2	3417+00.00	8.00	LT	144.08
LT EP 3	3417+25.00	8.00	LT	144.13
LT EP 4	3417+50.00	8.00	LT	144.20
LT EP 5	3417+75.00	8.00	LT	144.40
LT EP 6	3418+00.00	8.00	LT	144.61
LT EP 7	3418+25.00	8.00	LT	144.87
LT EP 8	3418+50.00	8.00	LT	145.15
LT EP 9	3418+75.00	8.00	LT	145.46
LT EP 10	3419+00.00	8.00	LT	145.76
LT EP 11	3419+25.00	8.00	LT	146.06
LT EP 12	3419+50.00	8.00	LT	146.37
LT EP 13	3419+75.00	8.00	LT	146.67
LT EP 14	3420+00.00	8.00	LT	146.98
LT EP 15	3420+25.00	8.00	LT	147.28
LT EP 16	3420+50.00	8.00	LT	147.58
LT EP 17	3420+51.03	8.00	LT	147.59

"SA-4" CL

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	3416+94.34	0.00	--	144.06
CL 2	3417+00.00	0.00	--	144.08
CL 3	3417+25.00	0.00	--	144.21
CL 4	3417+50.00	0.00	--	144.36
CL 5	3417+75.00	0.00	--	144.55
CL 6	3418+00.00	0.00	--	144.77
CL 7	3418+25.00	0.00	--	145.03
CL 8	3418+50.00	0.00	--	145.31
CL 9	3418+75.00	0.00	--	145.62
CL 10	3419+00.00	0.00	--	145.92
CL 11	3419+25.00	0.00	--	146.22
CL 12	3419+50.00	0.00	--	146.53
CL 13	3419+75.00	0.00	--	146.83
CL 14	3420+00.00	0.00	--	147.13
CL 15	3420+25.00	0.00	--	147.44
CL 16	3420+50.00	0.00	--	147.74
CL 17	3420+51.03	0.00	--	147.75

"SA-4" RIGHT EDGE OF SHOULDER (RT ES)

POINT	"SA-4" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	3416+94.76	12.00	RT	144.04
RT ES 2	3417+00.00	12.00	RT	144.08
RT ES 3	3417+25.00	12.00	RT	144.33
RT ES 4	3417+50.00	12.00	RT	144.60
RT ES 5	3417+75.00	12.00	RT	144.78
RT ES 6	3418+00.00	12.00	RT	145.00
RT ES 7	3418+25.00	12.00	RT	145.26
RT ES 8	3418+50.00	12.00	RT	145.54
RT ES 9	3418+75.00	12.00	RT	145.85
RT ES 10	3419+00.00	12.00	RT	146.15
RT ES 11	3419+25.00	12.00	RT	146.46
RT ES 12	3419+50.00	12.00	RT	146.76
RT ES 13	3419+75.00	12.00	RT	147.07
RT ES 14	3420+00.00	12.00	RT	147.37
RT ES 15	3420+25.00	12.00	RT	147.67
RT ES 16	3420+50.00	12.00	RT	147.98
RT ES 17	3420+51.03	12.00	RT	147.99

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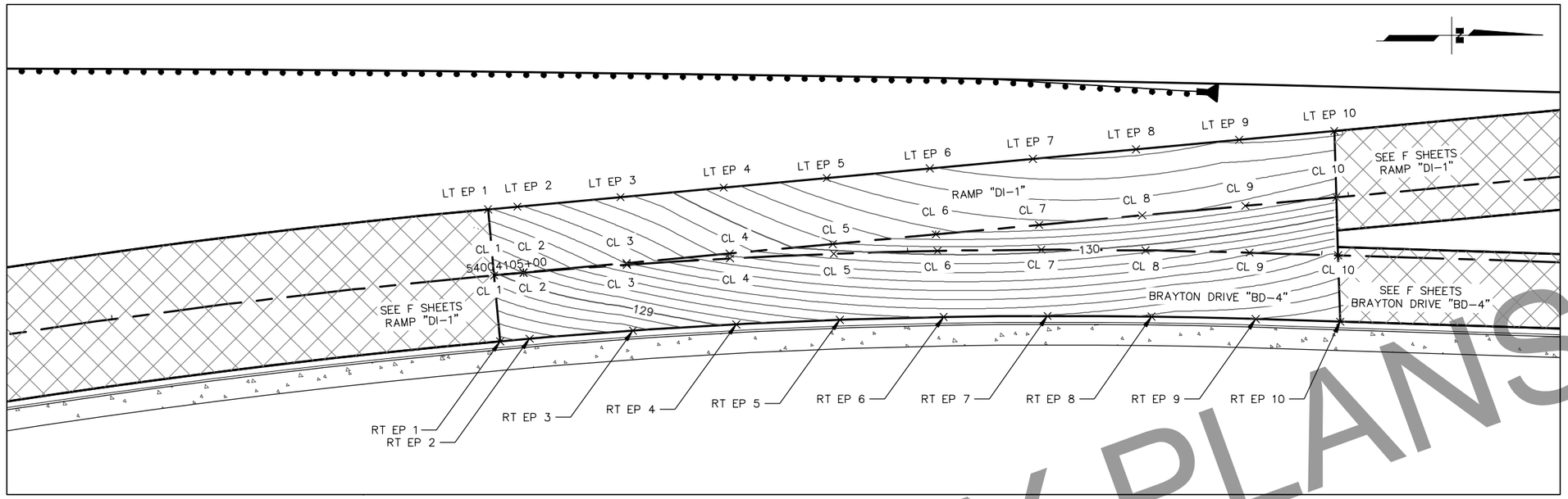


PLAN

0 15 30 45

1"= 15'

"DI-1" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	4104+90.73	16.00	LT	129.45
LT EP 2	4105+00.00	16.00	LT	129.58
LT EP 3	4105+25.00	16.00	LT	129.87
LT EP 4	4105+50.00	16.00	LT	130.15
LT EP 5	4105+75.00	16.00	LT	130.41
LT EP 6	4106+00.00	16.00	LT	130.59
LT EP 7	4106+25.00	16.00	LT	130.7
LT EP 8	4106+50.00	16.00	LT	130.73
LT EP 9	4106+75.00	16.00	LT	130.71
LT EP 10	4106+98.05	16.00	LT	130.73

"DI-1" CL

POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4104+90.73	0.00	--	128.93
CL 2	4105+00.00	0.00	--	129.10
CL 3	4105+25.00	0.00	--	129.51
CL 4	4105+50.00	0.00	--	129.83
CL 5	4105+75.00	0.00	--	130.09
CL 6	4106+00.00	0.00	--	130.27
CL 7	4106+25.00	0.00	--	130.38
CL 8	4106+50.00	0.00	--	130.41
CL 9	4106+75.00	0.00	--	130.37
CL 10	4106+97.06	0.00	--	130.27

"DI-1" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4104+90.73	16.00	RT	128.41
RT EP 2	4105+00.00	16.03	RT	128.54
RT EP 3	4105+25.00	16.40	RT	128.75
RT EP 4	4105+50.00	17.18	RT	129.04
RT EP 5	4105+75.00	18.39	RT	129.22
RT EP 6	4106+00.00	20.03	RT	129.31
RT EP 7	4106+25.00	22.09	RT	129.29
RT EP 8	4106+50.00	24.57	RT	129.18
RT EP 9	4106+75.00	27.48	RT	129.10
RT EP 10	4106+95.22	29.98	RT	128.99

"BD-4" CL

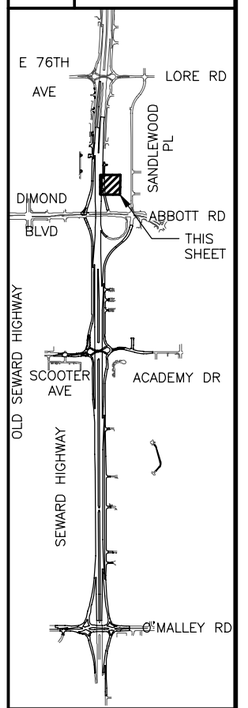
POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4104+90.73	0.00	--	128.93
CL 2	4105+00.00	0.03	RT	129.10
CL 3	4105+25.00	0.39	RT	129.48
CL 4	4105+50.00	1.17	RT	129.77
CL 5	4105+75.00	2.37	RT	129.95
CL 6	4106+00.00	3.99	RT	130.04
CL 7	4106+25.00	6.02	RT	130.03
CL 8	4106+50.00	8.48	RT	129.92
CL 9	4106+75.00	11.36	RT	129.72
CL 10	4106+96.20	13.98	RT	129.47

SHEET NO.	TOTAL SHEETS
G11	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"DI-1"/"BD-4" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:56 PM | LAYOUT | G11 | DESIGNED | - | CHECKED | - | DRAFTED | -
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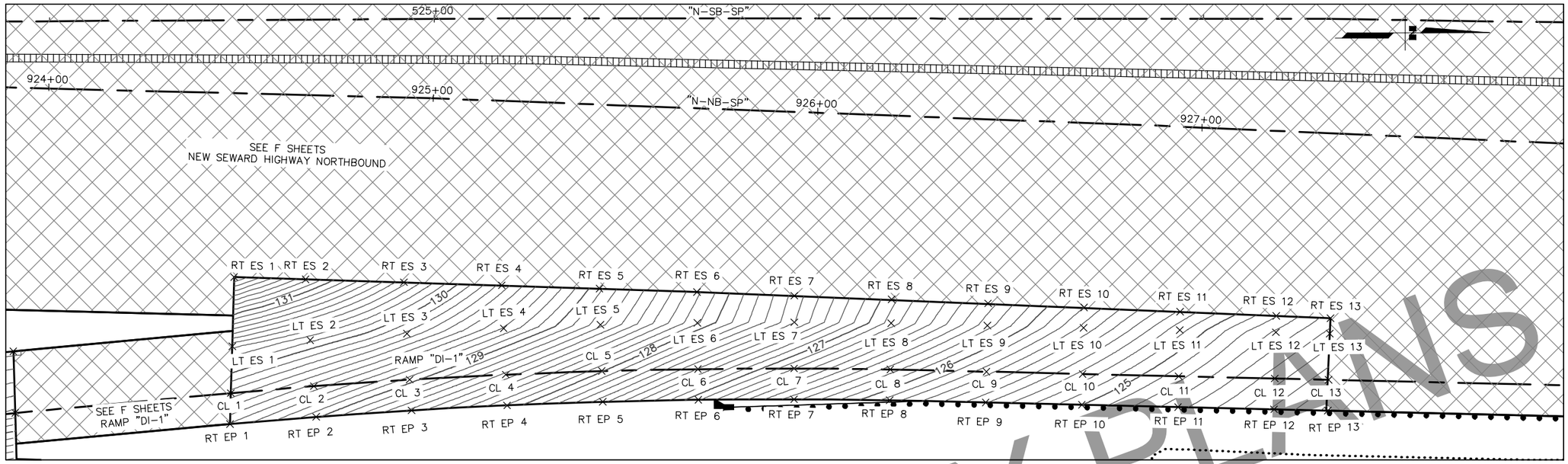


PLAN

0 15 30 45

1"= 15'

"DI-1" LEFT EDGE OF SHOULDER (LT ES)

POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	4107+55.25	12.00	LT	130.32
LT ES 2	4107+75.00	12.00	LT	130.12
LT ES 3	4108+00.00	12.00	LT	129.77
LT ES 4	4108+25.00	12.00	LT	129.29
LT ES 5	4108+50.00	12.00	LT	128.71
LT ES 6	4108+75.00	12.00	LT	128.11
LT ES 7	4109+00.00	12.00	LT	127.49
LT ES 8	4109+25.00	12.00	LT	126.85
LT ES 9	4109+50.00	12.00	LT	126.24
LT ES 10	4109+75.00	12.00	LT	125.67
LT ES 11	4110+00.00	12.00	LT	125.14
LT ES 12	4110+25.00	12.00	LT	124.68
LT ES 13	4110+38.99	12.00	LT	124.47

"DI-1" CL

POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4107+53.38	0.00	--	129.76
CL 2	4107+75.00	0.00	--	129.46
CL 3	4108+00.00	0.00	--	129.05
CL 4	4108+25.00	0.00	--	128.57
CL 5	4108+50.00	0.00	--	128.01
CL 6	4108+75.00	0.00	--	127.39
CL 7	4109+00.00	0.00	--	126.81
CL 8	4109+25.00	0.00	--	126.26
CL 9	4109+50.00	0.00	--	125.74
CL 10	4109+75.00	0.00	--	125.27
CL 11	4110+00.00	0.00	--	124.84
CL 12	4110+25.00	0.00	--	124.44
CL 13	4110+38.75	0.00	--	124.24

"N-NB-SP" RIGHT EDGE OF SHOULDER (RT ES)

POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4107+56.84	29.91	LT	131.80
RT EP 2	4107+75.00	27.86	LT	131.23
RT EP 3	4108+00.00	25.35	LT	130.43
RT EP 4	4108+25.00	23.21	LT	129.66
RT EP 5	4108+50.00	21.42	LT	128.92
RT EP 6	4108+75.00	19.99	LT	128.23
RT EP 7	4109+00.00	18.91	LT	127.56
RT EP 8	4109+25.00	18.18	LT	126.94
RT EP 9	4109+50.00	17.74	LT	126.35
RT EP 10	4109+75.00	17.28	LT	125.80
RT EP 11	4110+00.00	16.79	LT	125.28
RT EP 12	4110+25.00	16.28	LT	124.81
RT EP 13	4110+39.07	16.00	LT	124.55

"DI-1" RIGHT EDGE OF PAVEMENT (RT EP)

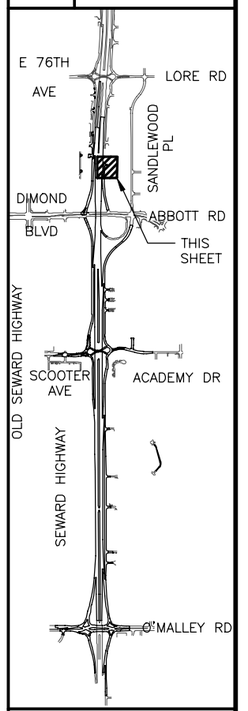
POINT	"DI-1" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4107+55.25	8.00	RT	129.40
RT EP 2	4107+75.00	8.00	RT	129.03
RT EP 3	4108+00.00	8.00	RT	128.57
RT EP 4	4108+25.00	8.00	RT	128.09
RT EP 5	4108+50.00	8.00	RT	127.54
RT EP 6	4108+75.00	8.00	RT	126.92
RT EP 7	4109+00.00	8.00	RT	126.34
RT EP 8	4109+25.00	8.00	RT	125.86
RT EP 9	4109+50.00	8.00	RT	125.41
RT EP 10	4109+75.00	8.00	RT	125.00
RT EP 11	4110+00.00	8.00	RT	124.64
RT EP 12	4110+25.00	8.00	RT	124.28
RT EP 13	4110+38.59	8.00	RT	124.08

SHEET NO.	TOTAL SHEETS
G12	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"DI-1"/"N-NB-SP" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:57 PM | LAYOUT | G12 | DESIGNED | - | CHECKED | - | DRAFTED | -
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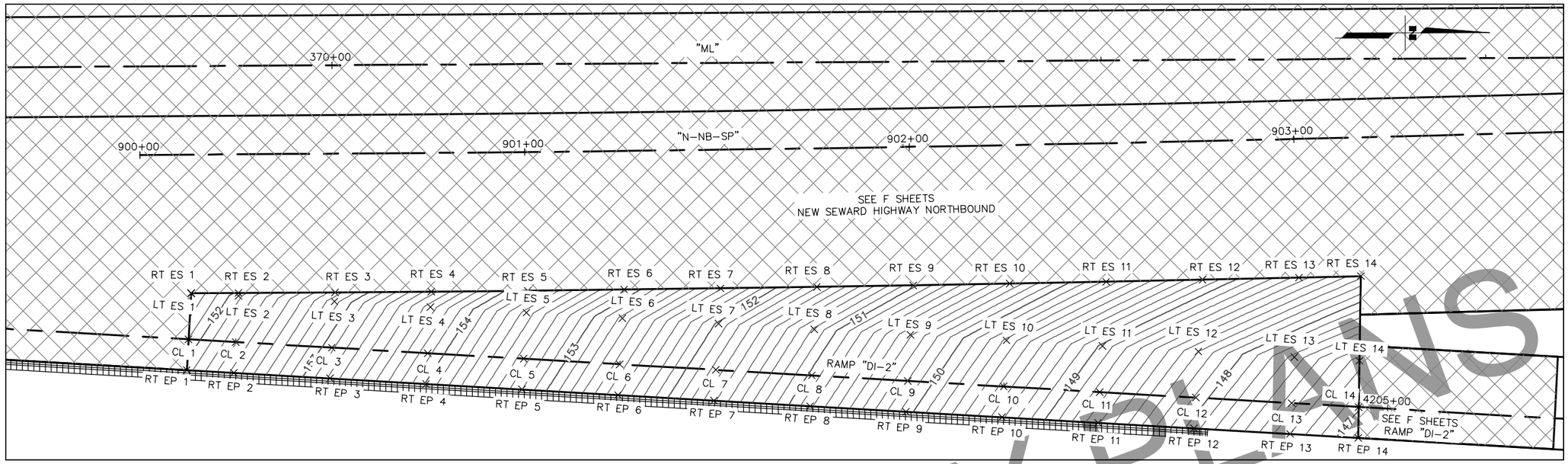


PLAN

0 15 30 45

1"= 15'

"DI-2" LEFT EDGE OF SHOULDER (LT ES)

POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	4201+87.72	12.00	LT	156.31
LT ES 2	4202+00.00	12.00	LT	155.92
LT ES 3	4202+25.00	12.00	LT	155.14
LT ES 4	4202+50.00	12.00	LT	154.35
LT ES 5	4202+75.00	12.00	LT	153.55
LT ES 6	4203+00.00	12.00	LT	152.76
LT ES 7	4203+25.00	12.00	LT	151.97
LT ES 8	4203+50.00	12.00	LT	151.18
LT ES 9	4203+75.00	12.00	LT	150.41
LT ES 10	4204+00.00	12.00	LT	149.67
LT ES 11	4204+25.00	12.00	LT	148.97
LT ES 12	4204+50.00	12.00	LT	148.30
LT ES 13	4204+75.00	12.00	LT	147.66
LT ES 14	4204+91.94	12.00	LT	147.25

"DI-2" CL

POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4201+87.72	0.00	--	156.09
CL 2	4202+00.00	0.00	--	155.71
CL 3	4202+25.00	0.00	--	154.92
CL 4	4202+50.00	0.00	--	154.13
CL 5	4202+75.00	0.00	--	153.34
CL 6	4203+00.00	0.00	--	152.55
CL 7	4203+25.00	0.00	--	151.76
CL 8	4203+50.00	0.00	--	150.97
CL 9	4203+75.00	0.00	--	150.20
CL 10	4204+00.00	0.00	--	149.46
CL 11	4204+25.00	0.00	--	148.76
CL 12	4204+50.00	0.00	--	148.08
CL 13	4204+75.00	0.00	--	147.45
CL 14	4204+92.43	0.00	--	147.02

"DI-2" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4201+87.72	8.00	RT	155.95
RT EP 2	4202+00.00	8.00	RT	155.56
RT EP 3	4202+25.00	8.00	RT	154.78
RT EP 4	4202+50.00	8.00	RT	155.56
RT EP 5	4202+75.00	8.00	RT	153.20
RT EP 6	4203+00.00	8.00	RT	152.41
RT EP 7	4203+25.00	8.00	RT	151.62
RT EP 8	4203+50.00	8.00	RT	150.83
RT EP 9	4203+75.00	8.00	RT	150.06
RT EP 10	4204+00.00	8.00	RT	149.32
RT EP 11	4204+25.00	8.00	RT	148.61
RT EP 12	4204+50.00	8.00	RT	147.94
RT EP 13	4204+75.00	8.00	RT	147.30
RT EP 14	4204+92.76	8.00	RT	146.86

"N-NB-SP" RIGHT EDGE OF SHOULDER (RT ES)

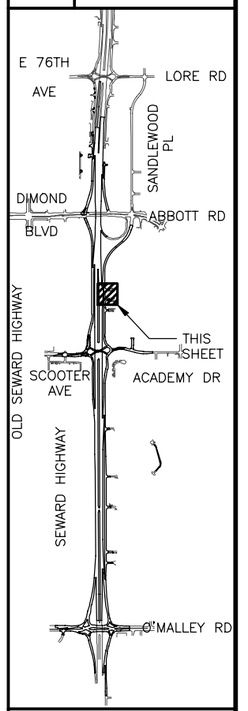
POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	4201+87.72	12.00	LT	156.31
RT ES 2	4202+00.00	12.78	LT	155.96
RT ES 3	4202+25.00	14.39	LT	155.25
RT ES 4	4202+50.00	16.03	LT	154.54
RT ES 5	4202+75.00	17.71	LT	153.83
RT ES 6	4203+00.00	19.43	LT	153.12
RT ES 7	4203+25.00	21.20	LT	152.41
RT ES 8	4203+50.00	23.01	LT	151.69
RT ES 9	4203+75.00	24.85	LT	151.03
RT ES 10	4204+00.00	26.75	LT	150.38
RT ES 11	4204+25.00	28.68	LT	149.77
RT ES 12	4204+50.00	30.65	LT	149.20
RT ES 13	4204+75.00	32.67	LT	148.64
RT ES 14	4204+91.03	33.99	LT	148.32

SHEET NO.	TOTAL SHEETS
G13	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"DI-2"/"N-NB-SP" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:57 PM | LAYOUT | G13 | DESIGNED | - | CHECKED | - | DRAFTED | -

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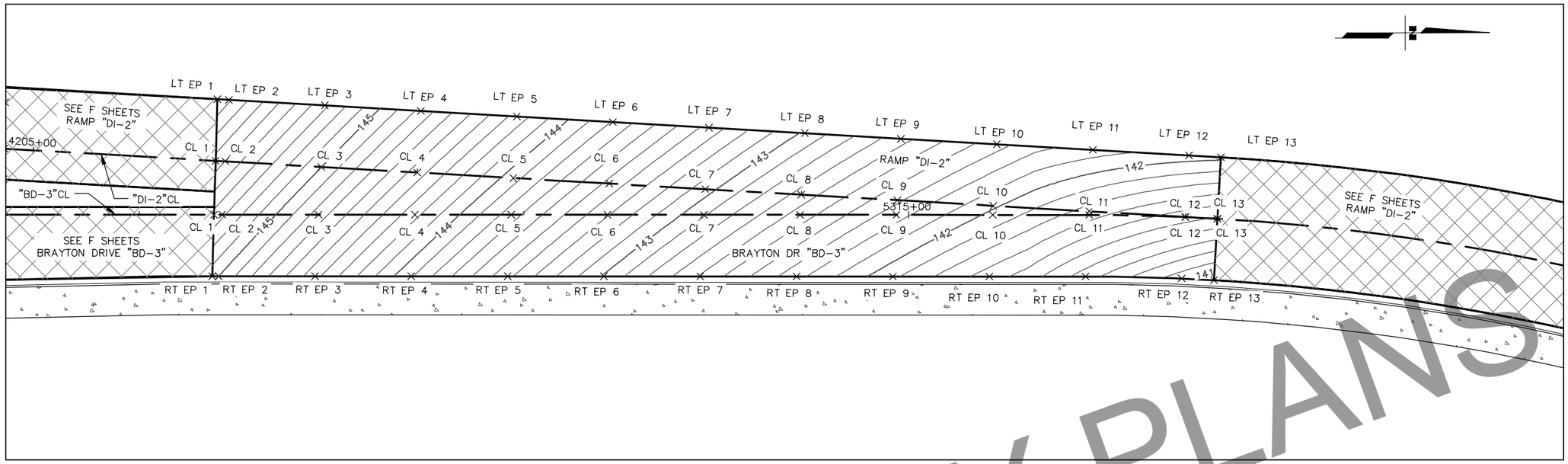


PLAN

0 15 30 45

1"= 15'

"DI-2" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	4205+47.02	16.00	LT	145.99
LT EP 2	4205+50.00	16.00	LT	145.92
LT EP 3	4205+75.00	16.00	LT	145.32
LT EP 4	4206+00.00	16.00	LT	144.77
LT EP 5	4206+25.00	16.00	LT	144.26
LT EP 6	4206+50.00	16.00	LT	143.79
LT EP 7	4206+75.00	16.00	LT	143.36
LT EP 8	4207+00.00	16.00	LT	142.98
LT EP 9	4207+25.00	16.00	LT	142.64
LT EP 10	4207+50.00	16.00	LT	142.34
LT EP 11	4207+75.00	16.00	LT	142.15
LT EP 12	4208+00.00	16.00	LT	142.05
LT EP 13	4208+08.36	16.00	LT	142.03

"DI-2" CL

POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4205+47.48	0.00	--	145.66
CL 2	4205+50.00	0.00	--	145.60
CL 3	4205+75.00	0.00	--	145.00
CL 4	4206+00.00	0.00	--	144.45
CL 5	4206+25.00	0.00	--	143.94
CL 6	4206+50.00	0.00	--	143.47
CL 7	4206+75.00	0.00	--	143.04
CL 8	4207+00.00	0.00	--	142.66
CL 9	4207+25.00	0.00	--	142.32
CL 10	4207+50.00	0.00	--	142.02
CL 11	4207+75.00	0.00	--	141.76
CL 12	4208+00.00	0.00	--	141.55
CL 13	4208+08.36	0.00	--	141.48

"DI-2" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4205+48.34	30.00	RT	145.04
RT EP 2	4205+50.00	29.90	RT	145.00
RT EP 3	4205+75.00	28.46	RT	144.43
RT EP 4	4206+00.00	27.02	RT	143.91
RT EP 5	4206+25.00	25.59	RT	143.43
RT EP 6	4206+50.00	24.15	RT	142.99
RT EP 7	4206+75.00	22.71	RT	142.59
RT EP 8	4207+00.00	21.27	RT	142.23
RT EP 9	4207+25.00	19.83	RT	141.92
RT EP 10	4207+50.00	18.39	RT	141.65
RT EP 11	4207+75.00	16.95	RT	141.35
RT EP 12	4208+00.00	16.01	RT	141.04
RT EP 13	4208+08.36	16.00	RT	140.94

"BD-3" CL

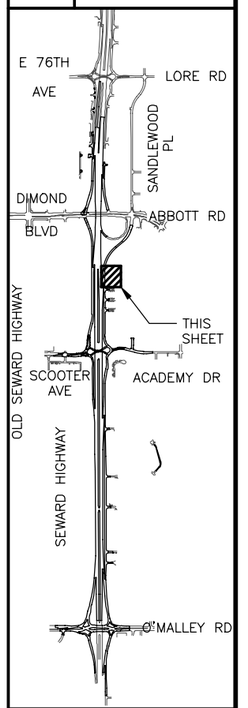
POINT	"DI-2" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4205+47.88	14.00	RT	145.37
CL 2	4205+50.00	13.87	RT	145.32
CL 3	4205+75.00	12.44	RT	144.75
CL 4	4206+00.00	11.00	RT	144.23
CL 5	4206+25.00	9.56	RT	143.75
CL 6	4206+50.00	8.12	RT	143.31
CL 7	4206+75.00	6.68	RT	142.91
CL 8	4207+00.00	5.24	RT	142.56
CL 9	4207+25.00	3.80	RT	142.24
CL 10	4207+50.00	2.37	RT	141.97
CL 11	4207+75.00	0.93	RT	141.74
CL 12	4208+00.00	0.06	RT	141.54
CL 13	4208+08.36	0.00	RT	141.48

SHEET NO.	TOTAL SHEETS
G14	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"DI-2"/"BD-3" GORE
GRADING PLAN

DATE/TIME | 4/6/2022 9:24 PM | LAYOUT | G14 | DESIGNED | - | CHECKED | - | DRAFTED | -
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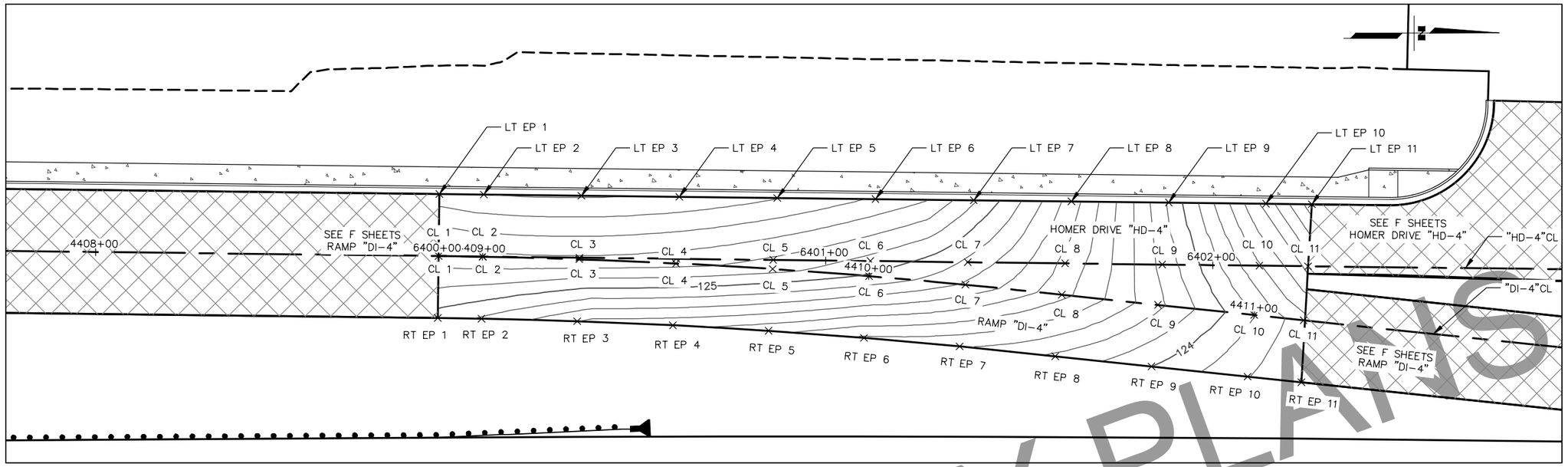


PLAN

0 15 30 45

1"= 15'

"DI-4" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	4408+88.62	16.00	LT	125.58
LT EP 2	4409+00.00	16.04	LT	125.60
LT EP 3	4409+25.00	16.42	LT	125.61
LT EP 4	4409+50.00	17.19	LT	125.58
LT EP 5	4409+75.00	18.36	LT	125.50
LT EP 6	4410+00.00	19.92	LT	125.39
LT EP 7	4410+25.00	21.89	LT	125.11
LT EP 8	4410+50.00	24.20	LT	124.65
LT EP 9	4410+75.00	26.54	LT	124.09
LT EP 10	4411+00.00	28.89	LT	123.46
LT EP 11	4411+11.77	29.99	LT	123.75

"DI-4" CL

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4408+88.61	0.00	--	125.26
CL 2	4409+00.00	0.00	--	125.28
CL 3	4409+25.00	0.00	--	125.28
CL 4	4409+50.00	0.00	--	125.24
CL 5	4409+75.00	0.00	--	125.14
CL 6	4410+00.00	0.00	--	124.99
CL 7	4410+25.00	0.00	--	124.79
CL 8	4410+50.00	0.00	--	124.53
CL 9	4410+75.00	0.00	--	124.23
CL 10	4411+00.00	0.00	--	123.90
CL 11	4411+12.80	0.00	--	123.74

"DI-4" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4408+88.61	16.00	RT	124.95
RT EP 2	4409+00.00	16.00	RT	124.89
RT EP 3	4409+25.00	16.00	RT	124.70
RT EP 4	4409+50.00	16.00	RT	124.63
RT EP 5	4409+75.00	16.00	RT	124.53
RT EP 6	4410+00.00	16.00	RT	124.38
RT EP 7	4410+25.00	16.00	RT	124.31
RT EP 8	4410+50.00	16.00	RT	124.18
RT EP 9	4410+75.00	16.00	RT	124.00
RT EP 10	4411+00.00	16.00	RT	123.80
RT EP 11	4411+13.93	16.00	RT	123.72

"HD-4" CL

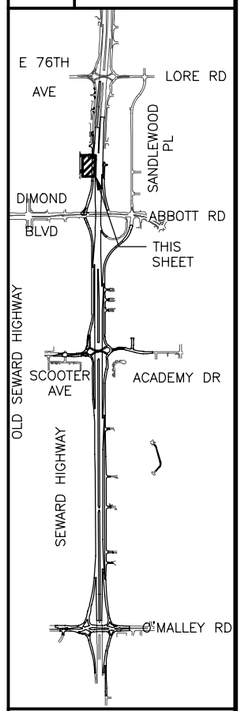
POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4408+88.61	0.00	LT	125.26
CL 2	4409+00.00	0.04	LT	125.28
CL 3	4409+25.00	0.41	LT	125.29
CL 4	4409+50.00	1.18	LT	125.26
CL 5	4409+75.00	2.33	LT	125.18
CL 6	4410+00.00	3.89	LT	125.07
CL 7	4410+25.00	5.83	LT	124.87
CL 8	4410+50.00	8.13	LT	124.57
CL 9	4410+75.00	10.47	LT	124.17
CL 10	4411+00.00	12.82	LT	123.71
CL 11	4411+12.52	14.00	LT	123.74

SHEET NO.	TOTAL SHEETS
G15	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"DI-4"/"HD-4" GORE
GRADING PLAN

DATE/TIME | 4/5/2022 5:57 PM | LAYOUT | G15 | DESIGNED | - | CHECKED | - | DRAFTED | -
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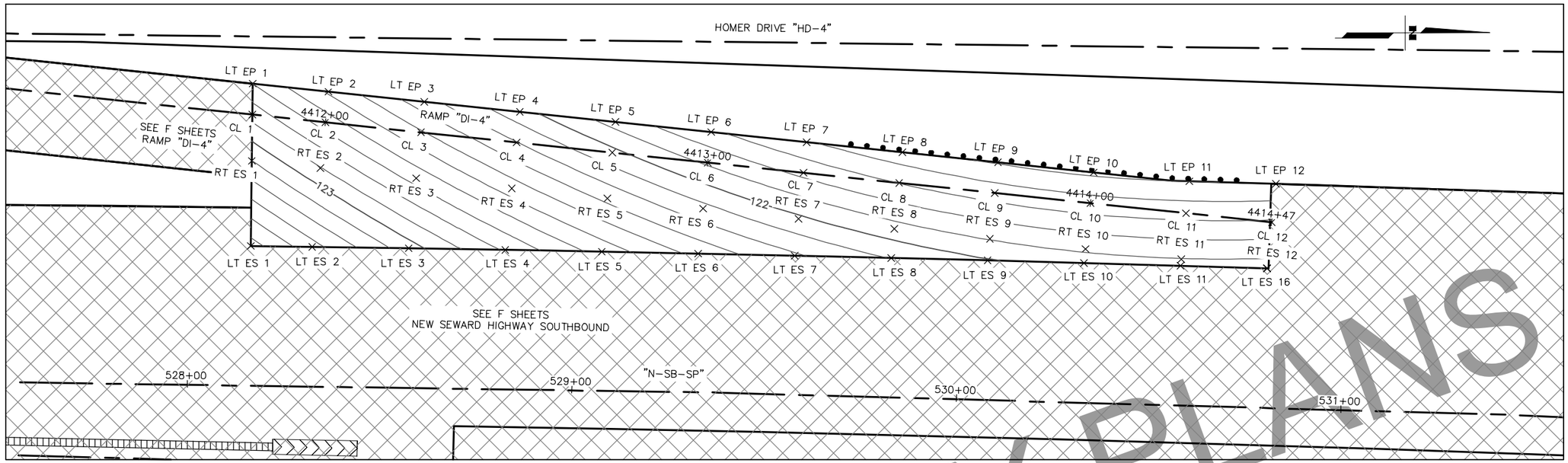


PLAN

0 15 30 45

1"= 15'

"DI-4" LEFT EDGE OF PAVEMENT (LT EP)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
LT EP 1	4411+80.20	8.00	LT	122.88
LT EP 2	4412+00.00	8.00	LT	122.50
LT EP 3	4412+25.00	8.00	LT	122.25
LT EP 4	4412+50.00	8.00	LT	122.04
LT EP 5	4412+75.00	8.00	LT	121.86
LT EP 6	4413+00.00	8.00	LT	121.71
LT EP 7	4413+25.00	8.00	LT	121.60
LT EP 8	4413+50.00	8.00	LT	121.52
LT EP 9	4413+75.00	8.00	LT	121.48
LT EP 10	4414+00.00	8.00	LT	121.47
LT EP 11	4414+25.00	8.34	LT	121.66
LT EP 12	4414+47.43	10.03	LT	121.71

"DI-4" CL

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4411+80.94	0.00	--	122.87
CL 2	4412+00.00	0.00	--	122.66
CL 3	4412+25.00	0.00	--	122.41
CL 4	4412+50.00	0.00	--	122.20
CL 5	4412+75.00	0.00	--	122.02
CL 6	4413+00.00	0.00	--	121.87
CL 7	4413+25.00	0.00	--	121.76
CL 8	4413+50.00	0.00	--	121.68
CL 9	4413+75.00	0.00	--	121.64
CL 10	4414+00.00	0.00	--	121.63
CL 11	4414+25.00	0.00	--	121.66
CL 12	4414+47.43	0.00	--	121.71

"DI-4" RIGHT EDGE OF SHOULDER (RT ES)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
RT ES 1	4411+82.05	12.00	RT	122.86
RT ES 2	4412+00.00	12.00	RT	122.90
RT ES 3	4412+25.00	12.00	RT	122.65
RT ES 4	4412+50.00	12.00	RT	122.44
RT ES 5	4412+75.00	12.00	RT	122.26
RT ES 6	4413+00.00	12.00	RT	122.11
RT ES 7	4413+25.00	12.00	RT	122.00
RT ES 8	4413+50.00	12.00	RT	121.92
RT ES 9	4413+75.00	12.00	RT	121.88
RT ES 10	4414+00.00	12.00	RT	121.87
RT ES 11	4414+25.00	12.00	RT	121.90
RT ES 12	4414+47.43	12.00	RT	121.95

"N-SB-SP" LEFT EDGE OF SHOULDER (LT ES)

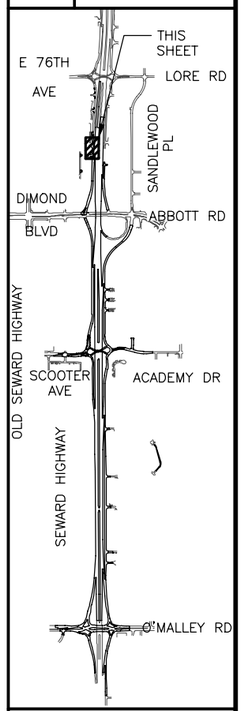
POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	4411+84.09	34.01	RT	123.54
LT ES 2	4412+00.00	32.55	RT	123.35
LT ES 3	4412+25.00	30.29	RT	123.05
LT ES 4	4412+50.00	28.07	RT	122.79
LT ES 5	4412+75.00	25.89	RT	122.57
LT ES 6	4413+00.00	23.76	RT	122.38
LT ES 7	4413+25.00	21.67	RT	122.22
LT ES 8	4413+50.00	19.62	RT	122.10
LT ES 9	4413+75.00	17.61	RT	122.01
LT ES 10	4414+00.00	15.65	RT	121.96
LT ES 11	4414+25.00	13.72	RT	121.94
LT ES 12	4414+47.43	12.03	RT	121.95

SHEET NO.	TOTAL SHEETS
G16	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"DI-4"/"N-SB-SP" GORE GRADING PLAN

DATE/TIME | 4/5/2022 5:57 PM | LAYOUT | G16 | DESIGNED | - | CHECKED | - | DRAFTED | -
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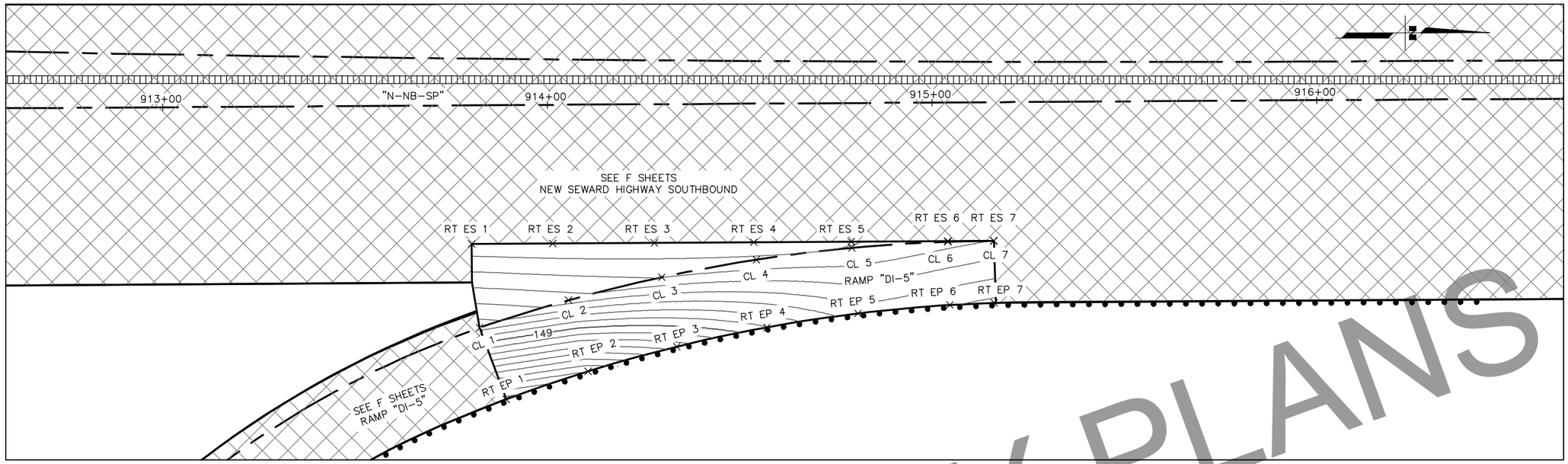


PLAN

0 15 30 45

1"= 15'

"DI-5" RIGHT EDGE OF PAVEMENT (RT EP)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
RT EP 1	4501+76.30	19.82	RT	148.30
RT EP 2	4502+00.00	19.16	RT	148.58
RT EP 3	4502+25.00	18.46	RT	149.03
RT EP 4	4502+50.00	17.77	RT	149.39
RT EP 5	4502+75.00	17.10	RT	149.64
RT EP 6	4503+00.00	16.45	RT	149.62
RT EP 7	4503+11.97	16.14	RT	149.60

"DI-5" CL

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
CL 1	4501+75.79	0.00	--	149.49
CL 2	4502+00.00	0.00	--	149.73
CL 3	4502+25.00	0.00	--	149.9
CL 4	4502+50.00	0.00	--	149.98
CL 5	4502+75.00	0.00	--	149.99
CL 6	4503+00.00	0.00	--	149.95
CL 7	4503+11.97	0.00	--	149.92

"N-NB-SP" RIGHT EDGE OF SHOULDER (RT ES)

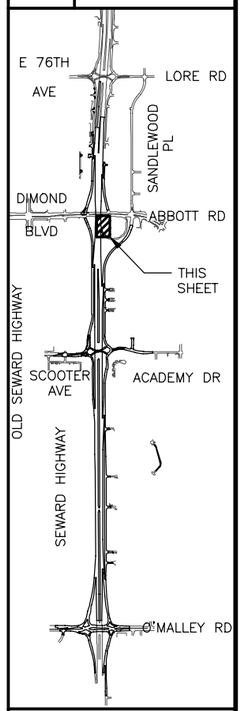
POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
LT ES 1	4501+80.62	21.30	LT	150.04
LT ES 2	4502+00.00	15.30	LT	150.07
LT ES 3	4502+25.00	9.12	LT	149.90
LT ES 4	4502+50.00	4.59	LT	149.98
LT ES 5	4502+75.00	1.62	LT	149.99
LT ES 6	4503+00.00	0.17	LT	149.95
LT ES 7	4503+11.97	0.00	--	149.92

SHEET NO.	TOTAL SHEETS
G17	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

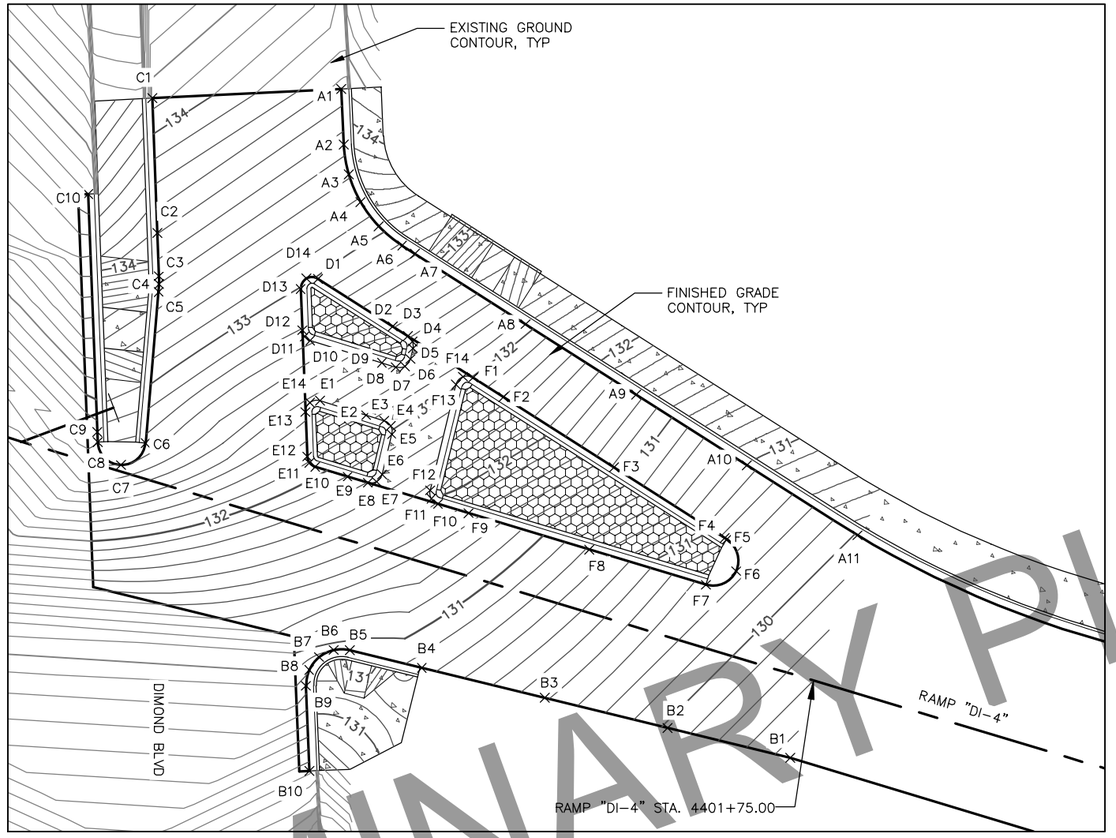
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"DI-5"/"N-NB-SP" GORE
GRADING PLAN

DRAFTED | - | CHECKED | - | DESIGNED | - | LAYOUT | G17 | DATE/TIME | 4/5/2022 5:57 PM | FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G17_GRADING.DWG



PLAN
0 15 30 45
1"= 15'

DIMOND "DI-4" PORKCHOP CURB LAYOUT

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
A1	PI	4400+51.65	85.14	LT	313807.77	353110.76	133.66						
A2	PC	4400+55.29	74.73	LT	313808.21	353121.77	133.45						
A3	1/4	4400+57.93	69.36	LT	313809.17	353127.68	133.32						
A4	1/2	4400+61.77	64.77	LT	313811.50	353133.19	133.18	25.00	4400+78.89	82.99	LT	313833.19	353120.76
A5	3/4	4400+66.59	61.22	LT	313815.08	353137.99	133.04						
A6	PT	4400+72.12	58.92	LT	313819.69	353141.80	132.89						
A7	PI	4400+75.00	58.11	LT	313822.22	353143.42	132.81						
A8	PI	4401+00.00	51.08	LT	313844.08	353157.44	132.06						
A9	PI	4401+25.00	44.04	LT	313865.94	353171.47	131.24						
A10	PI	4401+50.00	37.01	LT	313887.80	353185.49	130.55						
A11	PI	4401+75.00	30.05	LT	313909.68	353199.44	129.99						

DIMOND "DI-4" PORKCHOP CURB LAYOUT

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
B1	PI	4401+75.00	16.00	RT	313896.24	353243.49	129.55						
B2	PI	4401+50.00	17.33	RT	313871.94	353237.46	129.98						
B3	PI	4401+25.00	18.65	RT	313847.64	353231.43	130.42						
B4	PI	4401+00.00	19.98	RT	313823.35	353225.40	130.85						
B5	PC	4400+85.33	20.75	RT	313809.09	353221.87	130.94						
B6	1/4	4400+82.25	21.65	RT	313805.88	353221.83	130.91						
B7	1/2	4400+79.90	23.83	RT	313802.99	353223.23	130.87	7.00	4400+85.70	27.74	RT	313807.41	353228.66
B8	3/4	4400+78.76	26.83	RT	313801.03	353225.77	130.81						
B9	PT	4400+79.09	30.03	RT	313800.41	353228.92	130.74						
B10	PI	4400+84.59	45.97	RT	313801.02	353245.77	130.13						

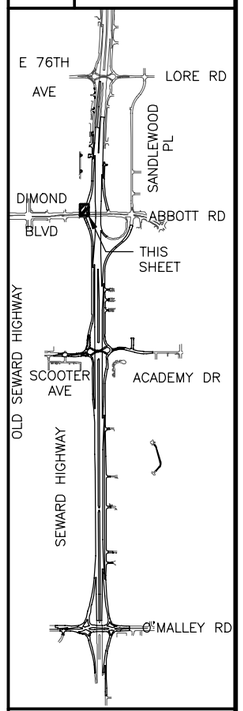
SHEET NO.	TOTAL SHEETS
G18	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
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ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"DI-4" PORKCHOP
GRADING PLAN

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DIMOND "DI–4" PORKCHOP CURB LAYOUT

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
C1	PI	4400+16.32	72.56	LT	313770.31	353112.48	134.14						
C2	PC	4400+25.00	47.34	LT	313771.25	353139.14	133.61						
C3	PC	4400+27.79	39.23	LT	313771.55	353147.71	133.43						
C4	1/2	4400+28.25	37.73	LT	313771.56	353149.27	133.40	25.00	4400+04.15	31.09	LT	313746.57	353148.59
C5	PT	4400+28.62	36.22	LT	313771.47	353150.83	133.37						
C6	PC	4400+34.78	6.81	LT	313768.78	353180.76	132.76						
C7	1/2	4400+31.39	1.25	LT	313763.92	353185.08	132.70	4.75	4400+30.13	5.83	LT	313764.05	353180.33
C8	PT	4400+25.64	4.29	LT	313759.30	353180.50	132.79						
C9	PI	4400+25.00	6.15	LT	313759.23	353178.53	132.84						
C10	PI	4400+09.68	50.71	LT	313757.58	353131.44	134.00						

DIMOND "DI–4" PORKCHOP CURB LAYOUT

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
D1	PT	4400+58.10	47.81	LT	313803.04	353148.35	132.99						
D2	PI	4400+75.00	43.05	LT	313817.82	353157.83	132.51						
D3	PC	4400+78.41	42.09	LT	313820.81	353159.74	132.41						
D4	1/2	4400+79.56	41.33	LT	313821.68	353160.80	132.37	2.25	4400+77.80	39.92	LT	313819.59	353161.64
D5	PT	4400+80.05	40.04	LT	313821.78	353162.18	132.33						
D6	PC	4400+80.17	37.88	LT	313821.26	353164.28	132.28						
D7	1/2	4400+79.55	36.21	LT	313820.17	353165.70	132.27	2.25	4400+77.92	37.77	LT	313819.07	353163.73
D8	PT	4400+77.90	35.52	LT	313818.40	353165.88	132.29						
D9	PI	4400+75.00	35.54	LT	313815.63	353165.01	132.36						
D10	PC	4400+60.13	35.66	LT	313801.45	353160.56	132.72						
D11	1/2	4400+58.84	36.08	LT	313800.33	353159.78	132.76	2.25	4400+60.15	37.91	LT	313802.12	353158.41
D12	PT	4400+58.03	37.18	LT	313799.87	353158.49	132.79						
D13	PC	4400+55.36	44.91	LT	313799.58	353150.32	132.99						
D14	1/2	4400+55.85	47.19	LT	313800.71	353148.28	133.02	2.25	4400+57.49	45.64	LT	313801.83	353150.24
D1	PT	4400+58.10	47.81	LT	313803.04	353148.35	132.99						

DIMOND "DI–4" PORKCHOP CURB LAYOUT

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
E1	PT	4400+65.46	24.82	LT	313803.38	353172.48	132.35						
E2	PI	4400+75.00	24.74	LT	313812.48	353175.34	132.14						
E3	PC	4400+78.75	24.71	LT	313816.06	353176.46	132.06						
E4	1/2	4400+80.29	24.08	LT	313817.34	353177.51	132.02	2.25	4400+78.73	22.46	LT	313815.38	353178.61
E5	PT	4400+80.98	22.58	LT	313817.57	353179.15	131.98						
E6	PC	4400+81.41	14.37	LT	313815.59	353187.13	131.80						
E7	1/2	4400+80.80	12.70	LT	313814.51	353188.55	131.78	2.25	4400+79.17	14.25	LT	313813.40	353186.59
E8	PT	4400+79.17	12.00	LT	313812.75	353188.74	131.80						
E9	PI	4400+75.00	12.00	LT	313808.76	353187.53	131.90						
E10	PC	4400+68.31	12.00	LT	313802.37	353185.58	132.06						
E11	1/2	4400+67.01	12.42	LT	313801.24	353184.79	132.09	2.25	4400+68.31	14.25	LT	313803.02	353183.42
E12	PT	4400+66.19	13.52	LT	313800.77	353183.50	132.13						
E13	PC	4400+63.32	21.83	LT	313800.46	353174.71	132.34						
E14	1/2	4400+63.62	23.88	LT	313801.34	353172.84	132.37	2.25	4400+65.44	22.57	LT	313802.71	353174.63
E1	PT	4400+65.46	24.82	LT	313803.38	353172.48	132.35						

DIMOND "DI–4" PORKCHOP CURB LAYOUT

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
F1	PT	4400+93.15	37.94	LT	313833.70	353168.01	131.99						
F2	PI	4401+00.00	36.01	LT	313839.68	353171.85	131.80						
F3	PI	4401+25.00	28.98	LT	313861.54	353185.87	131.09						
F4	PI	4401+50.00	21.94	LT	313883.40	353199.90	130.38						
F5	PC	4401+50.46	21.81	LT	313883.81	353200.16	130.37						
F6	1/2	4401+54.06	16.32	LT	313885.64	353206.47	130.25	5.00	4401+49.11	17.00	LT	313881.11	353204.37
F7	PT	4401+49.11	12.00	LT	313879.65	353209.15	130.27						
F8	PI	4401+25.00	12.00	LT	313856.59	353202.11	130.79						
F9	PI	4401+00.00	12.00	LT	313832.67	353194.82	131.35						
F10	PC	4400+93.69	12.00	LT	313826.64	353192.98	131.49						
F11	1/2	4400+92.14	12.62	LT	313825.33	353191.94	131.53	2.25	4400+93.69	14.25	LT	313827.29	353190.83
F12	PT	4400+91.44	14.13	LT	313825.11	353190.28	131.57						
F13	PC	4400+90.30	35.66	LT	313830.30	353169.36	132.01						
F14	1/2	4400+91.14	37.53	LT	313831.65	353167.81	132.03	2.25	4400+92.55	35.77	LT	313832.48	353169.90
F1	PT	4400+93.15	37.94	LT	313833.70	353168.01	131.99						

SHEET NO.	TOTAL SHEETS
G19	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
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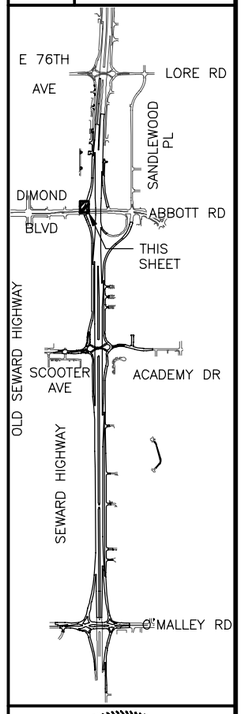
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"DI–4" PORKCHOP
GRADING TABLES

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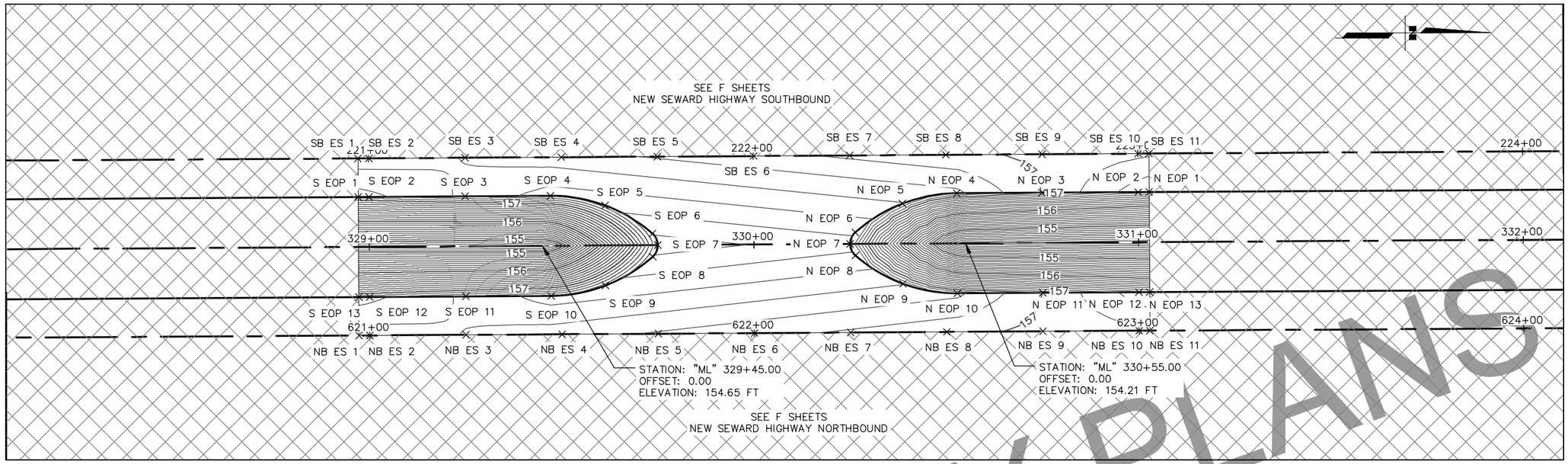

PLAN

0 15 30 45

1"= 15'

NEW SEWARD HIGHWAY SOUTHBOUND EDGE OF SHOULDER (SB ES)

POINT	"ML" STATION	OFFSET	DIRECTION	ELEVATION
SB ES 1	328+97.19	23.00	LT	157.36
SB ES 2	329+00.00	23.00	LT	157.35
SB ES 3	329+25.00	23.00	LT	157.30
SB ES 4	329+50.00	23.00	LT	157.24
SB ES 5	329+75.00	23.00	LT	157.19
SB ES 6	330+00.00	23.00	LT	157.14
SB ES 7	330+25.00	23.00	LT	157.08
SB ES 8	330+50.00	23.00	LT	157.03
SB ES 9	330+75.00	23.00	LT	156.98
SB ES 10	331+00.00	23.00	LT	156.92
SB ES 11	331+02.81	23.00	LT	156.92

NEW SEWARD HIGHWAY NORTHBOUND EDGE OF SHOULDER (NB ES)

POINT	"ML" STATION	OFFSET	DIRECTION	ELEVATION
NB ES 1	328+97.19	23.00	RT	157.36
NB ES 2	329+00.00	23.00	RT	157.35
NB ES 3	329+25.00	23.00	RT	157.30
NB ES 4	329+50.00	23.00	RT	157.24
NB ES 5	329+75.00	23.00	RT	157.19
NB ES 6	330+00.00	23.00	RT	157.14
NB ES 7	330+25.00	23.00	RT	157.08
NB ES 8	330+50.00	23.00	RT	157.03
NB ES 9	330+75.00	23.00	RT	156.98
NB ES 10	331+00.00	23.00	RT	156.92
NB ES 11	331+02.81	23.00	RT	156.92

SOUTHERN DITCH NOSE (EOP)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
S EOP 1	328+97.19	13.00	LT	157.16
S EOP 2	329+00.00	13.00	LT	157.17
S EOP 3	329+25.00	13.00	LT	157.32
S EOP 4	329+47.19	13.00	LT	157.44
S EOP 5	329+61.33	10.42	LT	157.47
S EOP 6	329+73.65	3.00	LT	157.59
S EOP 7	329+75.00	0.00	--	157.64
S EOP 8	329+73.65	3.00	RT	157.59
S EOP 9	329+61.33	10.42	RT	157.47
S EOP 10	329+47.19	13.00	RT	157.45
S EOP 11	329+25.00	13.00	RT	157.32
S EOP 12	329+00.00	13.00	RT	157.17
S EOP 13	328+97.19	13.00	RT	157.16

NORTHERN DITCH NOSE (EOP)

POINT	"DI-4" STATION	OFFSET	DIRECTION	ELEVATION
N EOP 1	331+02.81	13.00	LT	156.72
N EOP 2	331+00.00	13.00	LT	156.75
N EOP 3	330+75.00	13.00	LT	157.00
N EOP 4	330+52.81	13.00	LT	157.22
N EOP 5	330+38.67	10.42	LT	157.30
N EOP 6	330+26.35	3.00	LT	157.48
N EOP 7	330+25.00	0.00	--	157.54
N EOP 8	330+26.35	3.00	RT	157.48
N EOP 9	330+38.67	10.42	RT	157.30
N EOP 10	330+52.81	13.00	RT	157.22
N EOP 11	330+75.00	13.00	RT	157.00
N EOP 12	331+00.00	13.00	RT	156.75
N EOP 13	331+02.81	13.00	RT	156.72

SHEET NO.	TOTAL SHEETS
G20	G20
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
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DATE	
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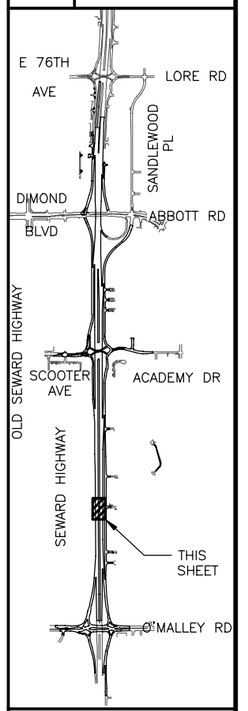
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
OFFICIAL PROFESSIONAL ENG.

JACOBS ENGINEERING GROUP, INC.
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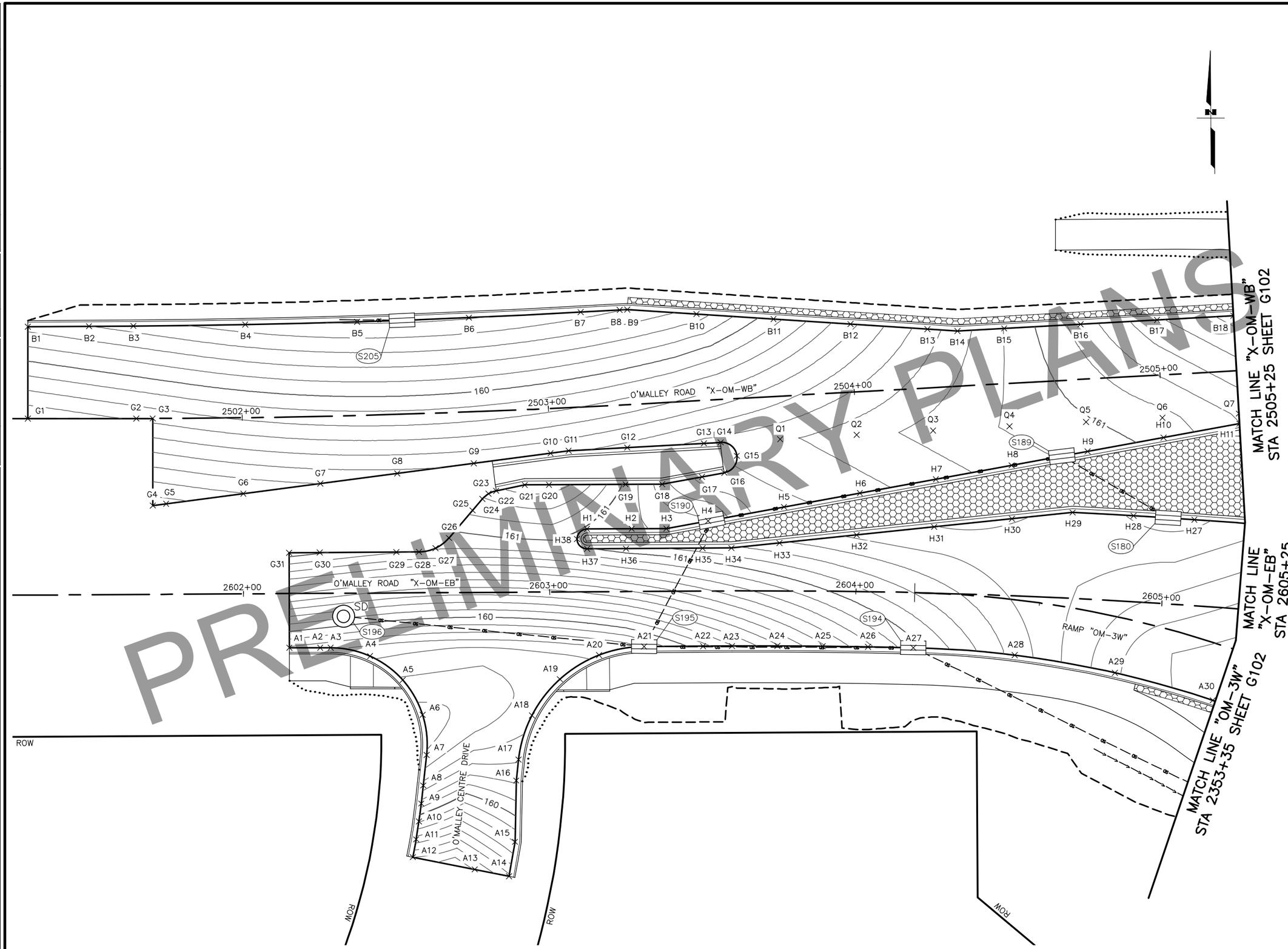
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

EMERGENCY VEHICLE
TURNOUT GRADING PLAN

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G20_GRADING.DWG | DATE/TIME | 4/5/2022 5:58 PM | LAYOUT | G20 | DESIGNED | - | CHECKED | - | DRAFTED | -

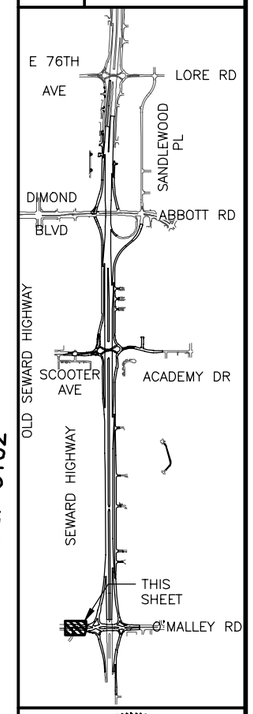


SHEET NO.	TOTAL SHEETS
G101	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

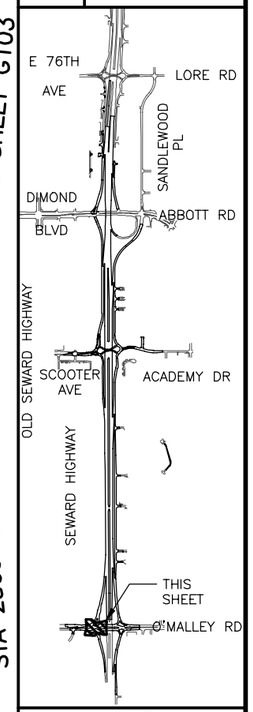
O'MALLEY RD
GRADING PLAN
2501+25 TO 2505+25
2601+25 TO 2605+25

DATE/TIME | 4/5/2022 5:58 PM | LAYOUT | G101 | DESIGNED | - | CHECKED | - | DRAFTED | -

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_G101_GRADING.DWG

SHEET NO.	TOTAL SHEETS
G102	G117
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING PLAN
2505+25 TO 2509+25
2605+25 TO 2609+25

MATCH LINE "X-OM-WB" STA 2505+25 SHEET G101
MATCH LINE "X-OM-EB" STA 2605+25 SHEET G101
MATCH LINE "OM-3W" "X-OM-WB" STA 2353+35 SHEET G101
MATCH LINE "OM-4W" STA 2451+00 SHEET G106
MATCH LINE "OM-4" STA 2400+75 SHEET G106
MATCH LINE "X-OM-EB" STA 2609+25 SHEET G103
MATCH LINE "X-OM-WB" STA 2509+25 SHEET G103
MATCH LINE "OM-3W" STA 2351+25 SHEET G106
MATCH LINE "OM-3" STA 2307+75 SHEET G106

STA. = 2505+56.04 61.62' LT
STA. = 2505+55.69 47.62' LT
STA. = 2505+92.23 69.56' LT
STA. = 2505+97.53 57.35' LT

RAMP "OM-4W"
RAMP "OM-4"
RAMP "OM-3W"
RAMP "OM-3"
O'MALLEY ROAD "X-OM-WB"
O'MALLEY ROAD "X-OM-EB"

2506+00
2507+00
2607+00
2606+00
2450+00
2400+00
2608+00
2609+00
2508+00
2509+00
2308+91

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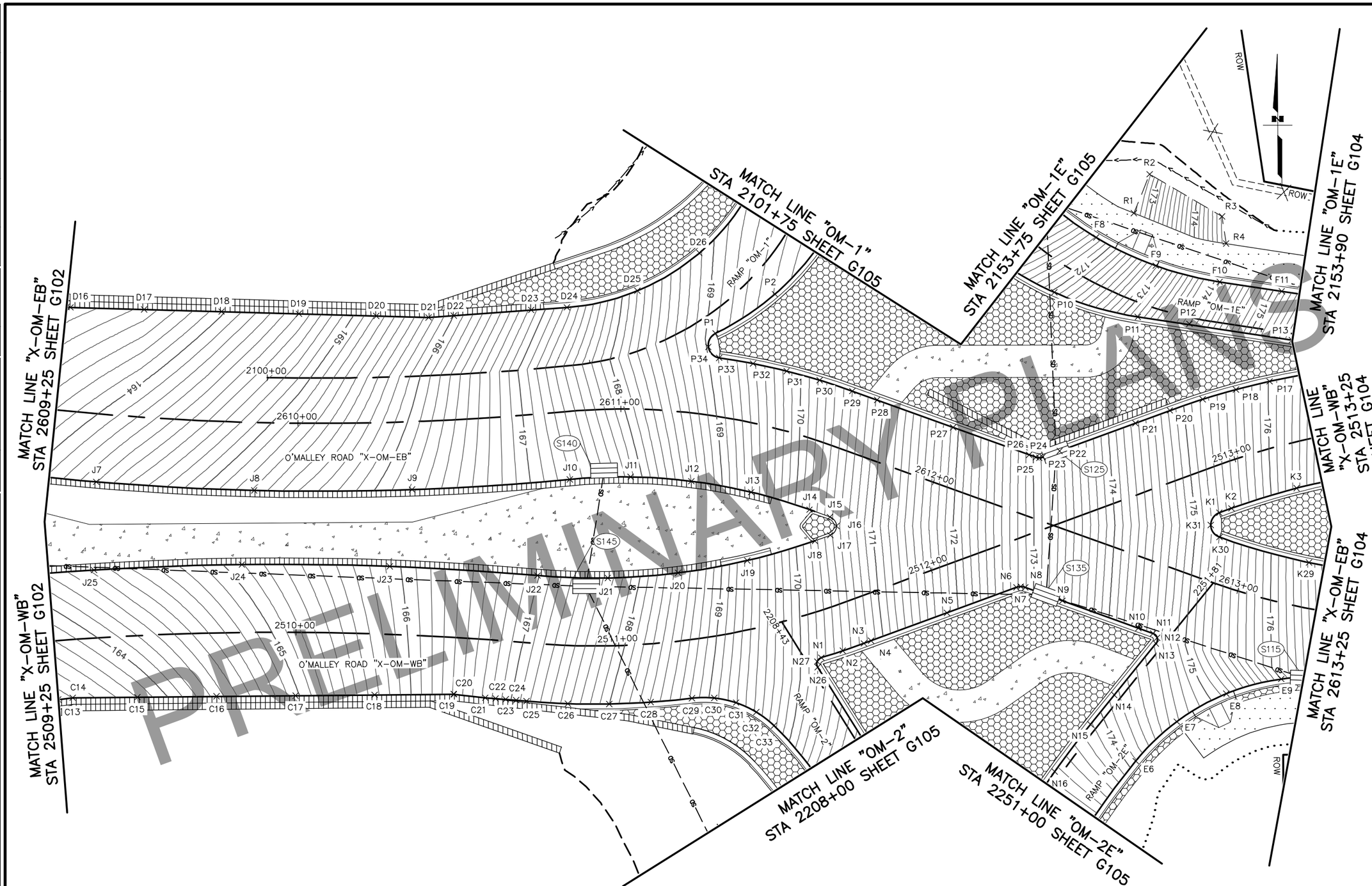
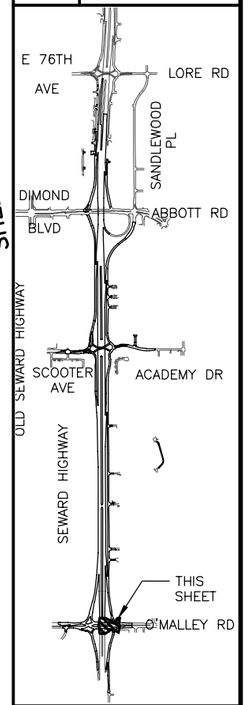


SHEET NO.	TOTAL SHEETS
G103	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

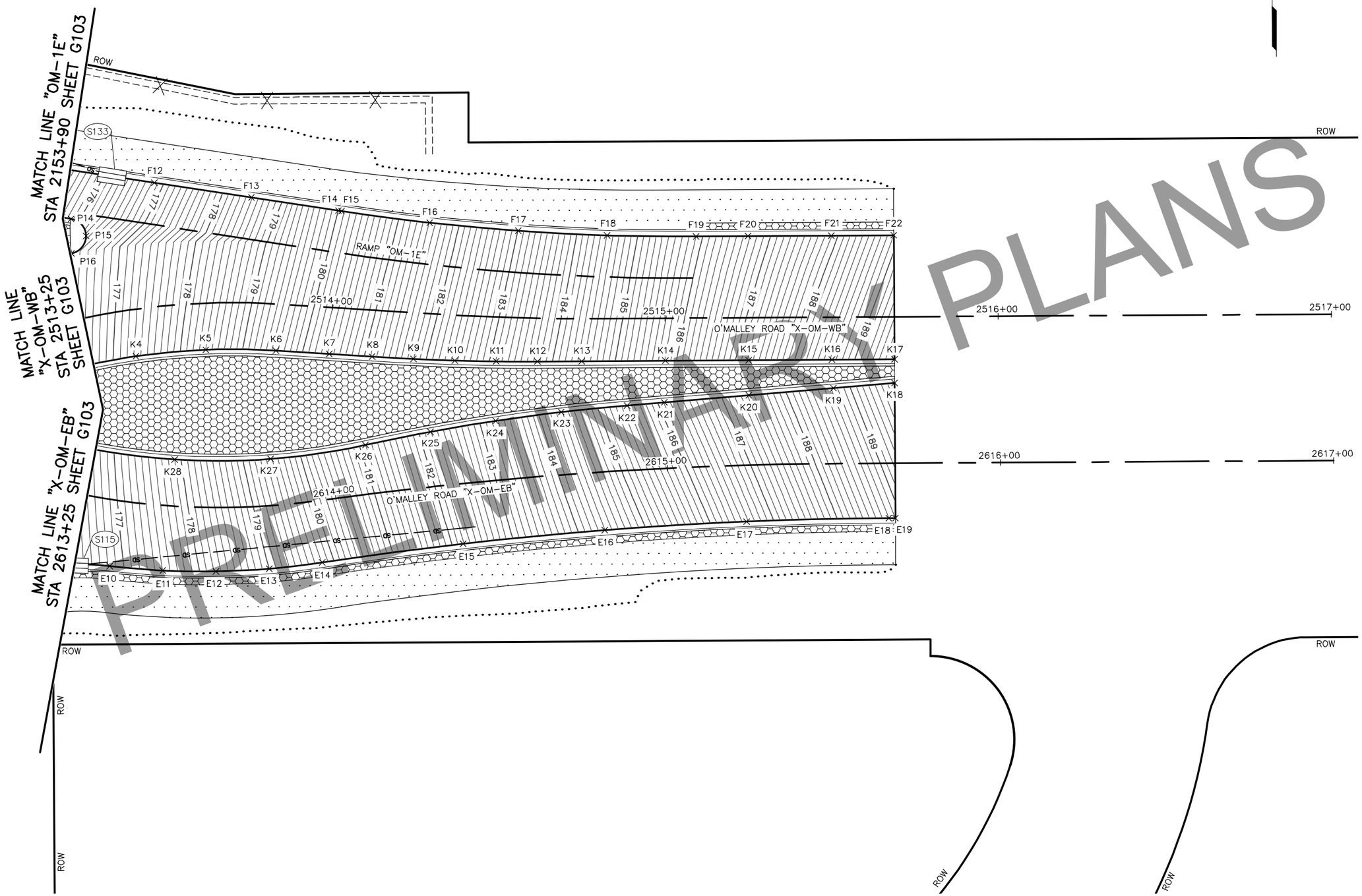
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING PLAN
2509+25 TO 2513+25
2609+25 TO 2613+25

DATE/TIME | 4/5/2022 5:58 PM | LAYOUT | G103 | DESIGNED | - | CHECKED | - | DRAFTED | -

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G103_GRADING.DWG



SHEET NO.	TOTAL SHEETS
G104	G117
STATE	YEAR
ALASKA	2022

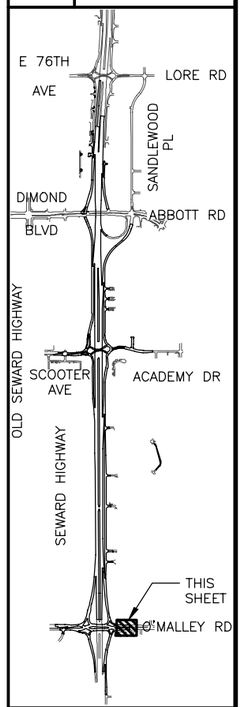
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
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AECC628

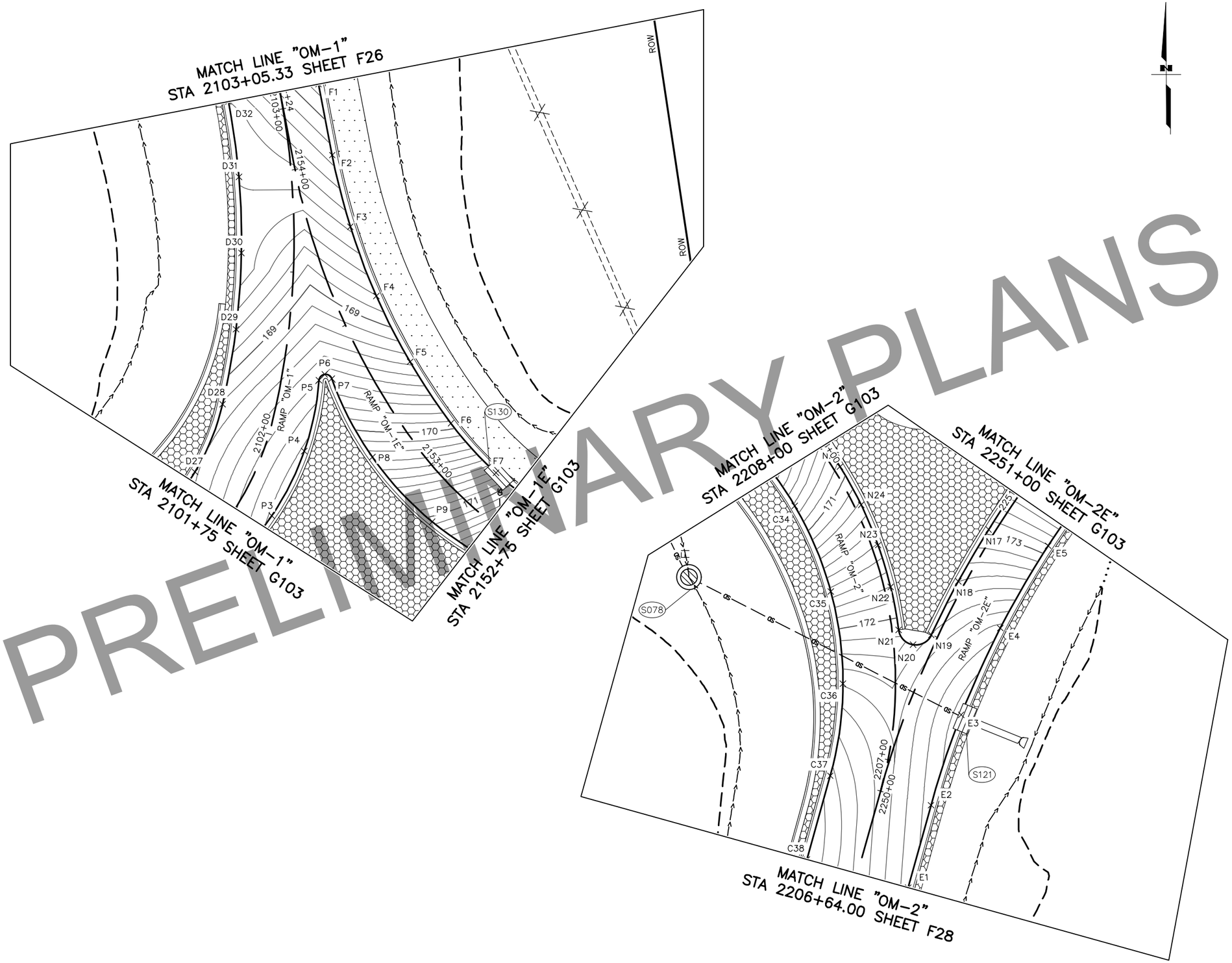
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD GRADING PLAN

2513+25 TO 2517+00
2613+25 TO 2617+00

FILE C:\PW_WORKDIR\DEN001\RK0537776\D08763321\00012_G104_GRADING.DWG | DATE/TIME 4/5/2022 5:59 PM | LAYOUT G104 | DESIGNED - | CHECKED - | DRAFTED -



PRELIMINARY PLANS

SHEET NO.	TOTAL SHEETS
G105	G117
STATE	YEAR
ALASKA	2022

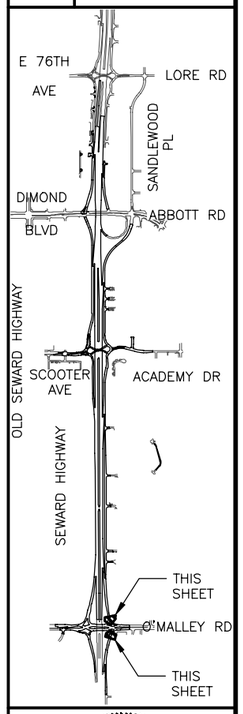
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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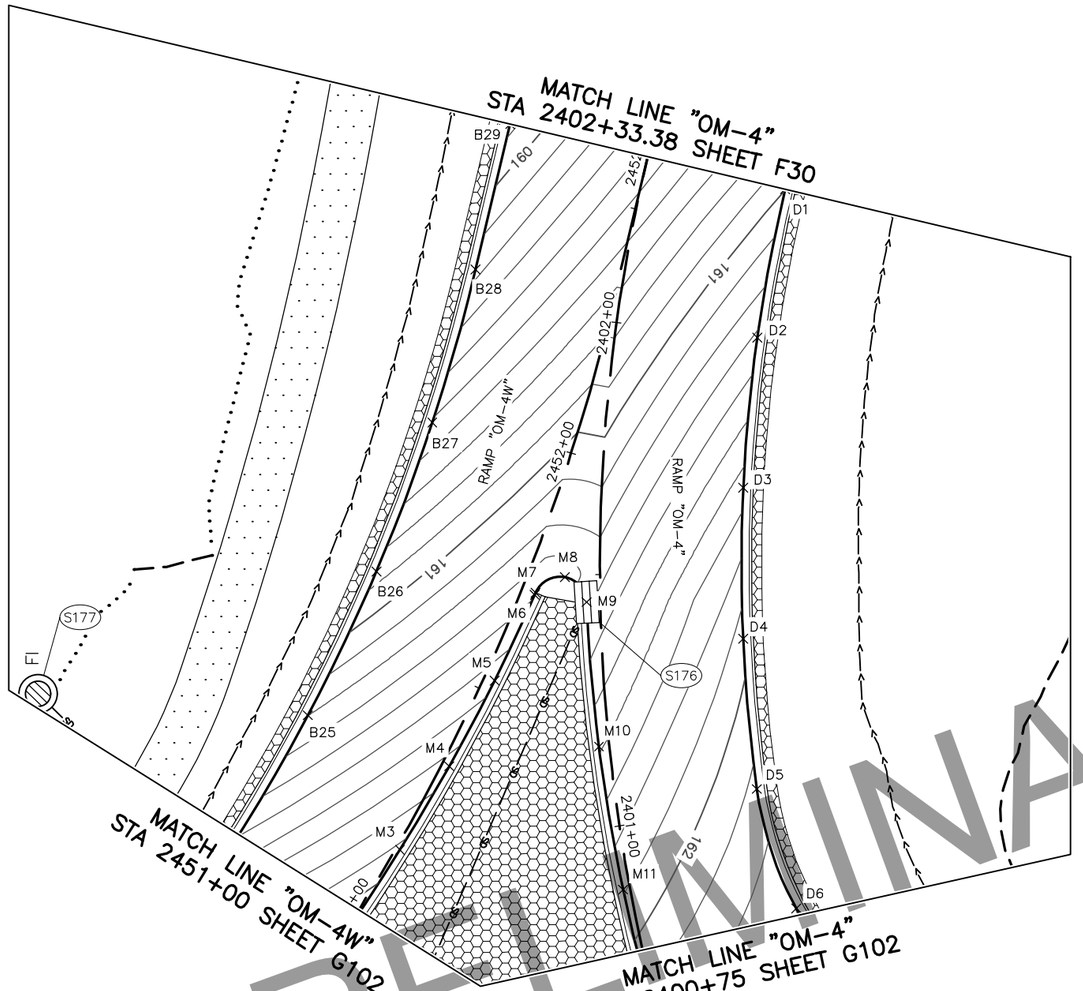
(907) 762-1500
AECC628

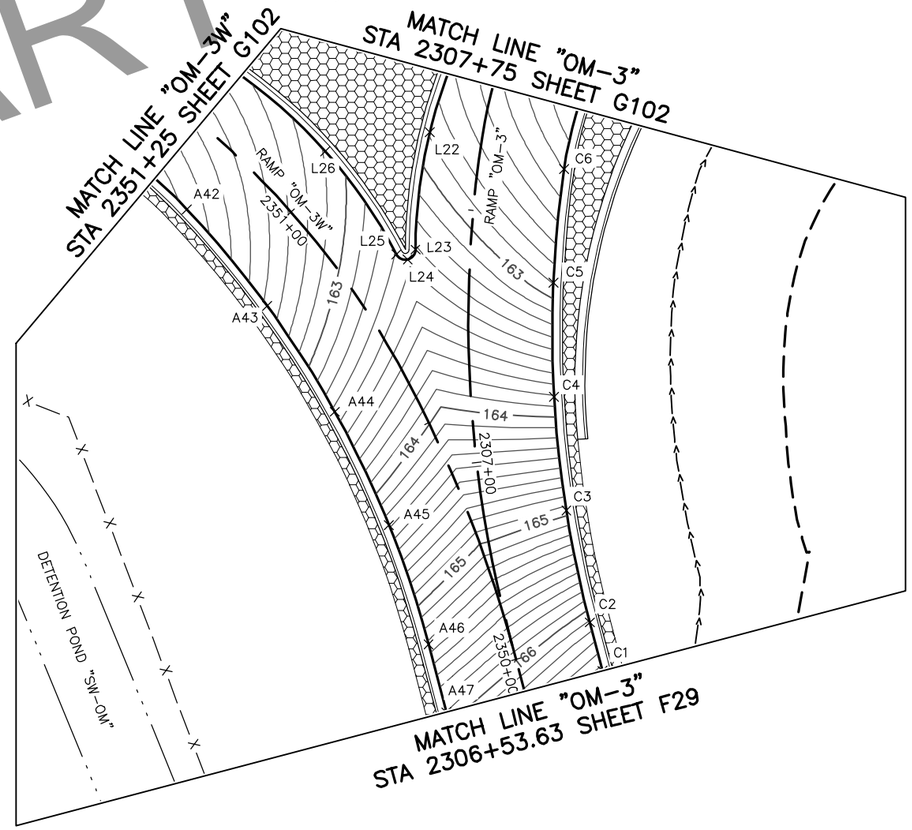
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"OM-1" & "OM-2" RAMPS GRADING PLAN

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763321\00012_G105_GRADING.DWG | DATE/TIME | 4/5/2022 5:59 PM | LAYOUT | G105 | DESIGNED | - | CHECKED | - | DRAFTED | -





PRELIMINARY PLANS

SHEET NO.	TOTAL SHEETS
G106	G117
STATE	YEAR
ALASKA	2022

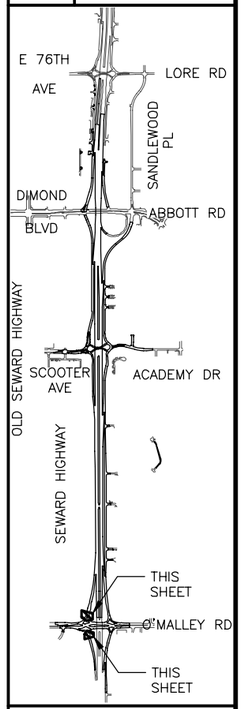
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

"OM-3" & "OM-4"
RAMPS GRADING PLAN

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G106_GRADING.DWG | DATE/TIME 4/5/2022 5:59 PM | LAYOUT G106 | DESIGNED - | CHECKED - | DRAFTED -

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – WEST APPROACH: SOUTH EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION "X–OM–EB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
A1	PI	2602+14.90	17.71	RT	305789.31	352710.32	159.78						
A2	PI	2602+25.00	17.76	RT	305789.29	352720.42	159.74						
A3	PC	2602+28.40	17.77	RT	305789.29	352723.82	159.73	31.50	"X–OM–EB" 2602+28.25	49.27	RT	305757.79	352723.76
A4	1/4	2602+41.26	20.59	RT	305786.51	352736.69	159.62						
A5	1/2	2602+51.85	28.41	RT	305778.72	352747.30	159.49						
A6	3/4	2602+58.31	39.88	RT	305767.27	352753.80	159.36						
A7	PT	2602+59.53	52.98	RT	305754.17	352755.05	159.43						
A8	PC	2602+58.35	62.91	RT	305744.23	352753.90	159.66	229.16	"X–OM–EB" 2600+30.30	40.42	RT	305766.06	352525.79
A9	1/4	2602+57.70	68.79	RT	305738.35	352753.26	159.86						
A10	1/2	2602+56.89	74.65	RT	305732.49	352752.47	160.11						
A11	3/4	2602+55.93	80.49	RT	305726.65	352751.53	160.34						
A12	PT	2602+54.82	86.30	RT	305720.84	352750.44	160.59						
A13	PI	2602+75.00	90.42	RT	305789.32	352770.42	160.68						
A14	PI	2602+86.17	92.70	RT	305714.52	352781.81	160.51						
A15	PC	2602+89.55	54.61	RT	305752.63	352785.07	159.68	41.50	"X–OM–EB" 2603+30.76	59.50	RT	305747.86	352826.30
A16	1/4	2602+93.97	40.29	RT	305766.96	352789.46	159.56						
A17	1/2	2603+03.19	28.48	RT	305778.80	352798.65	159.55						
A18	3/4	2603+16.01	20.71	RT	305786.61	352811.44	159.63						
A19	PT	2603+30.76	18.00	RT	305789.36	352826.18	159.82						
A20	PI	2603+50.00	18.00	RT	305789.41	352845.42	160.07						
A21	PC	2603+59.43	18.00	RT	305789.44	352854.85	160.19	1982.00	"X–OM–EB" 2605+47.97	2000.00	RT	303807.45	352860.58
A22	1/4	2603+74.36	18.00	RT	305789.43	352869.65	160.39						
A23	1/2	2603+89.30	18.00	RT	305789.31	352884.45	160.58						
A24	3/4	2604+04.24	18.00	RT	305789.07	352899.25	160.78						
A25	PCC	2604+19.17	18.00	RT	305788.73	352914.05	160.96						
	PCC	2604+19.17	18.00	RT	305788.73	352914.05	160.96	332.00	"X–OM–EB" 2604+19.17	350.00	RT	305456.85	352905.10
A26	1/4	2604+52.66	19.38	RT	305786.17	352947.15	161.34						
A27	1/2	2604+85.95	23.52	RT	305780.33	352979.83	161.70						
A28	3/4	2605+18.87	30.39	RT	305771.25	353011.76	162.02						
A29	PT	2605+50.66	39.98	RT	305759.03	353042.62	162.34						
A30	PI	2605+75.00	47.24	RT	305751.14	353071.76	162.12						
A31	PC	2605+82.59	50.30	RT	305748.58	353081.23	162.16	314.00	"X–OM–EB" 2607+68.62	204.63	LT	306048.46	353174.35
A32	1/4	2605+94.29	56.05	RT	305744.30	353096.35	162.22						
A33	1/2	2606+05.72	61.86	RT	305740.78	353111.66	162.28						
A34	3/4	2606+16.90	67.72	RT	305738.03	353127.13	162.32						
A35	PT	2606+27.84	73.60	RT	305736.06	353142.71	162.33						
A36	PC	2606+32.45	76.21	RT	305735.38	353149.43	162.32	100.00	"X–OM–EB" 2606+10.44	170.11	RT	305635.89	353139.36
A37	1/4	2606+43.70	85.14	RT	305731.99	353167.01	162.22						
A38	1/2	2606+53.72	97.33	RT	305725.51	353183.71	162.12						
A39	3/4	2606+64.25	111.81	RT	305716.17	353198.98	162.10						
A40	PCC	2606+72.03	127.93	RT	305704.25	353212.34	162.22						
	PCC	2606+72.03	127.93	RT	305704.25	353212.34	162.22	200.00	"X–OM–EB" 2605+69.28	230.71	RT	305567.52	353066.37
A41	1/4	2606+79.33	151.70	RT	305685.08	353228.18	162.62						
A42	1/2	2606+83.63	176.20	RT	305664.09	353241.52	163.33						
A43	3/4	2606+84.85	201.04	RT	305641.60	353252.15	164.28						

SHEET NO.	TOTAL SHEETS
G107	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
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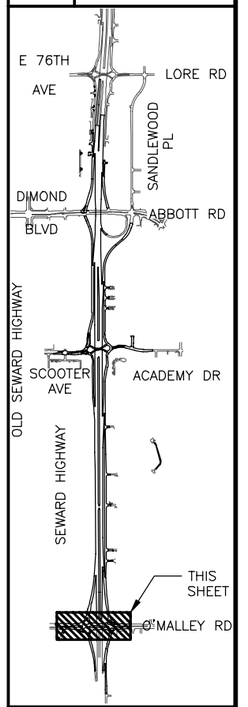
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G107_GRADING.DWG | DATE/TIME 4/5/2022 5:59 PM | LAYOUT G107 | DESIGNED - | CHECKED - | DRAFTED -

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – WEST APPROACH: SOUTH EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION "X-OM-WB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
B1	PI	2501+30.00	30.04	LT	305894.41	352625.25	159.75						
B2	PI	2501+50.00	30.14	LT	305894.48	352645.25	159.69						
B3	PC	2501+64.47	30.21	LT	305894.53	352659.72	159.64						
B4	1/4	2502+01.36	30.40	LT	305894.87	352696.25	159.54						
B5	1/2	2502+38.27	30.59	LT	305895.67	352732.77	159.48	2969.00	"X-OM-WB" 2501+50.14	2999.18	LT	308863.51	352649.90
B6	3/4	2502+75.18	30.77	LT	305896.91	352769.28	159.49						
B7	PT	2503+12.09	30.96	LT	305898.60	352805.77	159.56						
B8	PI	2503+25.00	31.00	LT	305899.27	352818.53	159.59						
B9	PI	2503+27.50	31.00	LT	305899.41	352821.00	159.60						
B10	PI	2503+50.00	28.27	LT	305897.86	352843.61	159.75						
B11	PI	2503+75.00	25.24	LT	305896.15	352868.74	159.94						
B12	PI	2504+00.00	22.21	LT	305894.43	352893.86	160.15						
B13	PI	2504+25.00	19.18	LT	305892.72	352918.99	160.46						
B14	PI	2504+34.72	18.00	LT	305892.05	352928.75	160.57						
B15	PI	2504+50.00	18.00	LT	305892.85	352944.02	160.72						
B16	PI	2504+75.00	18.00	LT	305894.17	352968.98	160.96						
B17	PI	2505+00.00	18.00	LT	305895.48	352993.95	161.20						
B18	PI	2505+25.00	18.00	LT	305896.79	353018.91	161.44						
B19	PI	2505+50.00	18.00	LT	305898.10	353043.88	161.68						
B20	PC	2505+71.58	19.04	LT	305899.33	353067.17	161.82						
B21	1/4	2505+98.22	27.30	LT	305904.52	353097.33	162.05						
B22	1/2	2506+19.58	45.09	LT	305916.62	353125.44	162.16	130.00	"X-OM-WB" 2505+64.36	148.67	LT	306029.15	353060.35
B23	3/4	2506+33.89	69.77	LT	305934.95	353149.94	161.95						
B24	PCC	2506+41.39	98.55	LT	305958.50	353169.47	161.53						
	PCC	2506+41.39	98.55	LT	305958.50	353169.47	161.53						
B25	1/4	2506+44.71	129.65	LT	305985.64	353185.46	161.18						
B26	1/2	2506+45.97	161.08	LT	306014.04	353199.09	160.83	372.00	"X-OM-WB" 2503+77.37	290.00	LT	306160.67	352857.21
B27	3/4	2506+45.61	192.57	LT	306043.49	353210.27	160.48						
B28	PT	2506+44.00	223.91	LT	306073.78	353218.92	160.14						
B29	PI	2506+42.11	253.20	LT	306102.51	353225.82	159.87						

SHEET NO.	TOTAL SHEETS
G108	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

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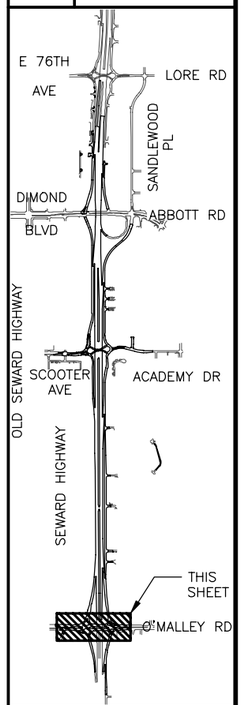

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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G108_GRADING.DWG | DATE/TIME 4/5/2022 5:59 PM | LAYOUT G108 | DESIGNED - | CHECKED - | DRAFTED -

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – SOUTH RAMPS: EDGE OF PAVEMENT

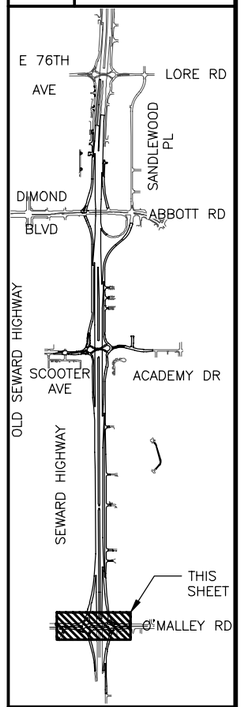
POINT	DESCRIPTION	STATION "X–OM–WB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
C1	PI	2508+38.98	187.12	RT	305612.62	353294.37	166.54						
C2	PC	2508+36.87	177.97	RT	305622.20	353291.87	166.57						
C3	1/4	2508+32.31	156.78	RT	305644.35	353287.27	165.42						
C4	1/2	2508+28.56	135.01	RT	305666.85	353284.92	164.30	225.00	"X–OM–WB" 2510+35.50	122.82	RT	305678.96	353509.59
C5	3/4	2508+25.80	112.80	RT	305689.47	353284.84	163.36						
C6	PCC	2508+24.27	90.29	RT	305711.98	353287.03	162.80						
	PCC	2508+24.27	90.29	RT	305711.98	353287.03	162.80						
C7	1/4	2508+26.36	66.13	RT	305735.14	353294.45	162.36						
C8	1/2	2508+35.15	44.40	RT	305754.71	353308.89	162.32	75.00	"X–OM–WB" 2508+77.52	95.26	RT	305700.97	353361.22
C9	3/4	2508+50.82	28.26	RT	305768.62	353328.82	162.65						
C10	PT	2508+71.65	20.61	RT	305775.42	353352.15	162.79						
C11	PI	2508+75.00	22.24	RT	305773.86	353355.84	162.82						
C12	PI	2509+00.00	21.02	RT	305777.08	353382.35	163.10						
C13	PI	2509+25.00	20.22	RT	305780.03	353406.61	163.45						
C14	PI	2509+29.56	18.00	RT	305782.57	353410.91	163.50						
C15	PI	2509+50.00	21.03	RT	305780.70	353431.04	163.81						
C16	PI	2509+75.00	21.67	RT	305780.86	353455.46	164.32						
C17	PI	2510+00.00	21.63	RT	305781.02	353479.85	164.95						
C18	PI	2510+25.00	20.92	RT	305781.18	353504.27	165.65						
C19	PI	2510+49.86	17.53	RT	305783.34	353528.74	166.41						
C20	PI	2510+50.00	19.54	RT	305781.32	353528.75	166.42						
C21	PC	2510+59.92	18.00	RT	305782.18	353538.55	166.73						
C22	1/4	2510+63.18	18.00	RT	305781.93	353541.73	166.84						
C23	1/2	2510+66.44	18.00	RT	305781.67	353544.91	166.95	882.00	"X–OM–WB" 2508+94.07	900.00	RT	304902.69	353472.04
C24	3/4	2510+69.70	18.00	RT	305781.40	353548.10	167.05						
C25	PCC	2510+72.96	18.00	RT	305781.12	353551.28	167.16						
	PCC	2510+72.96	18.00	RT	305781.12	353551.28	167.16						
C26	1/4	2510+84.84	18.00	RT	305780.31	353564.08	167.57						
C27	1/2	2510+96.73	18.00	RT	305780.16	353576.90	168.00	245.00	"X–OM–WB" 2510+72.96	227.00	LT	306025.13	353573.29
C28	3/4	2511+08.62	18.00	RT	305780.68	353589.72	168.41						
C29	PCC	2511+20.50	18.00	RT	305781.88	353602.49	168.82						
	PCC	2511+20.50	18.00	RT	305781.88	353602.49	168.82						
C30	1/4	2511+26.83	18.86	RT	305781.93	353609.39	169.05						
C31	1/2	2511+32.73	21.39	RT	305780.46	353616.13	169.33	31.00	"X–OM–WB" 2511+20.50	49.00	RT	305751.10	353606.19
C32	3/4	2511+37.81	25.42	RT	305777.53	353622.38	169.58						
C33	PCC	2511+41.79	30.67	RT	305773.30	353627.83	169.84						
	PCC	2511+41.79	30.67	RT	305773.30	353627.83	169.84						
C34	1/4	2511+51.68	56.45	RT	305750.98	353645.29	170.72						
C35	1/2	2511+54.54	84.53	RT	305724.84	353656.22	171.64	106.00	"X–OM–WB" 2510+79.92	101.31	RT	305697.40	353553.83
C36	3/4	2511+51.87	112.60	RT	305696.74	353659.83	172.39						
C37	PT	2511+45.06	138.89	RT	305668.69	353655.87	172.73						
C38	PI	2511+37.61	162.36	RT	305643.14	353655.87	172.73						

SHEET NO.	TOTAL SHEETS
G109	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G109_GRADING.DWG | DATE/TIME 4/5/2022 5:59 PM | LAYOUT G109 | DESIGNED - | CHECKED - | DRAFTED -

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – NORTH RAMPS: NORTH EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION "X–OM–EB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
D1	PC	2608+29.15	215.54	LT	306089.43	353280.27	160.94	322.00	"X–OM–EB" 2611+07.17	143.05	LT	306014.23	353593.36
D2	1/4	2608+23.94	187.41	LT	306060.10	353274.65	161.27						
D3	1/2	2608+19.47	158.63	LT	306030.36	353271.77	161.61						
D4	3/4	2608+15.94	129.34	LT	306000.49	353271.66	161.91						
D5	PCC	2608+13.63	99.68	LT	305970.74	353274.31	162.11						
	PCC	2608+13.63	99.68	LT	305970.74	353274.31	162.11	70.00	"X–OM–EB" 2608+61.50	102.00	LT	305980.19	353343.67
D6	1/4	2608+15.50	74.97	LT	305947.10	353281.99	162.32						
D7	1/2	2608+24.49	53.01	LT	305927.64	353297.44	162.52						
D8	3/4	2608+40.62	37.59	LT	305914.80	353318.71	162.66						
D9	PCC	2608+61.50	32.00	LT	305910.20	353343.13	162.80						
	PCC	2608+61.50	32.00	LT	305910.20	353343.13	162.80	249.00	"X–OM–EB" 2607+74.62	217.00	RT	305661.20	353341.20
D10	1/4	2608+67.94	32.00	LT	305910.03	353350.53	162.85						
D11	1/2	2608+74.39	32.00	LT	305909.64	353357.91	162.90						
D12	3/4	2608+80.84	32.00	LT	305909.03	353365.29	162.96						
D13	PT	2608+87.29	32.00	LT	305908.21	353372.64	163.03						
D14	PI	2609+00.00	34.17	LT	305908.55	353385.83	163.14						
D15	PI	2609+25.00	34.03	LT	305905.52	353409.57	163.30						
D16	PI	2609+26.28	32.00	LT	305903.38	353410.58	163.34						
D17	PI	2609+50.00	35.31	LT	305904.66	353433.51	163.49						
D18	PI	2609+75.00	35.95	LT	305903.92	353457.39	163.93						
D19	PI	2610+00.00	35.85	LT	305903.17	353481.25	164.46						
D20	PI	2610+25.00	35.00	LT	305902.42	353505.15	165.14						
D21	PI	2610+41.80	32.00	LT	305899.92	353521.33	165.83						
D22	PI	2610+50.00	34.19	LT	305902.46	353529.08	166.14						
D23	PI	2610+75.00	34.25	LT	305904.13	353552.95	167.19						
D24	PC	2610+85.77	32.08	LT	305902.90	353564.16	167.60						
D25	1/4	2611+04.40	36.61	LT	305907.97	353586.00	168.51	71.00	"X–OM–EB" 2610+85.93	103.08	LT	305973.73	353559.22
D26	1/2	2611+19.44	49.44	LT	305919.60	353605.17	169.20						
D27	3/4	2611+28.87	68.18	LT	305936.63	353619.76	169.50						
D28	PCC	2611+32.50	90.01	LT	305957.36	353628.31	169.40						
	PCC	2611+32.50	90.01	LT	305957.36	353628.31	169.40	221.00	"X–OM–EB" 2609+16.43	136.61	LT	306008.32	353413.26
D29	1/4	2611+32.64	113.25	LT	305980.22	353632.47	169.04						
D30	1/2	2611+31.34	136.39	LT	306003.40	353634.21	168.70						
D31	3/4	2611+28.88	159.22	LT	306026.63	353633.50	168.35						
D32	PT	2611+25.50	181.56	LT	306049.65	353630.36	168.01						

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – EAST APPROACH: SOUTH EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION "X–OM–EB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
E1	PI	2612+75.19	200.42	RT	305634.46	353679.48	172.25						
E2	PC	2612+73.24	174.36	RT	305659.61	353686.56	172.36	284.00	"X–OM–EB" 2614+74.37	232.61	RT	305582.68	353959.94
E3	1/4	2612+72.55	145.34	RT	305687.12	353695.84	172.07						
E4	1/2	2612+74.83	116.40	RT	305713.53	353707.88	171.96						
E5	3/4	2612+80.06	87.84	RT	305738.58	353722.56	172.42						
E6	PCC	2612+88.17	59.96	RT	305762.00	353739.71	173.53						
	PCC	2612+88.17	59.96	RT	305762.00	353739.71	173.53	70.00	"X–OM–EB" 2613+35.72	89.96	RT	305717.73	353794.09
E7	1/4	2612+94.81	44.27	RT	305774.17	353752.45	174.26						
E8	1/2	2613+05.18	31.52	RT	305782.76	353767.82	174.89						
E9	3/4	2613+18.87	23.06	RT	305787.25	353784.81	175.46						
E10	PCC	2613+34.61	19.86	RT	305787.36	353802.38	176.82						
	PCC	2613+34.61	19.86	RT	305787.36	353802.38	176.82	240.00	"X–OM–EB" 2612+83.77	219.00	LT	306025.65	353830.99
E11	1/4	2613+49.28	19.52	RT	305785.98	353818.32	177.50						
E12	1/2	2613+63.98	19.18	RT	305785.67	353834.31	178.23						
E13	3/4	2613+78.69	18.85	RT	305786.42	353850.28	179.00						
E14	PCC	2613+93.43	18.54	RT	305788.24	353866.17	179.81						
	PCC	2613+93.43	18.54	RT	305788.24	353866.17	179.81	1183.50	"X–OM–EB" 2612+83.77	1200.00	RT	304617.52	354039.66
E15	1/4	2614+36.64	18.00	RT	305793.73	353908.50	182.18						
E16	1/2	2614+79.96	17.47	RT	305797.70	353950.99	184.39						
E17	3/4	2615+23.26	16.94	RT	305800.13	353993.61	186.57						
E18	PT	2615+66.34	16.50	RT	305801.02	354036.28	188.80						
E19	PI	2615+68.34	16.50	RT	305801.02	354038.28	188.90						

SHEET NO.	TOTAL SHEETS
G110	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/ CFHWY00012

NO.	REVISION
DATE	
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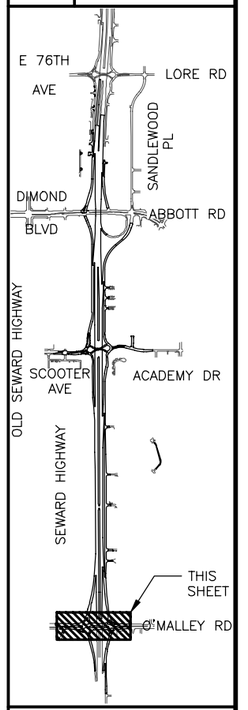
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

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EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – EAST APPROACH: NORTH EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION "X–OM–WB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
F1	PI	2512+62.27	226.02	LT	306054.87	353657.87	167.85						
F2	PC	2512+58.73	204.26	LT	306033.22	353661.99	168.85						
F3	1/4	2512+56.38	181.85	LT	306011.35	353667.44	168.47						
F4	1/2	2512+56.57	159.31	LT	305990.24	353675.32	168.80	200.00	"X–OM–WB" 2513+79.54	204.72	LT	306070.62	353858.46
F5	3/4	2512+59.28	136.94	LT	305970.15	353685.53	169.27						
F6	PCC	2512+64.50	115.02	LT	305951.33	353697.93	169.93						
	PCC	2512+64.50	115.02	LT	305951.33	353697.93	169.93						
F7	1/4	2512+72.20	96.14	LT	305936.22	353711.62	170.74						
F8	1/2	2512+83.40	79.11	LT	305924.05	353727.97	171.72	105.00	"X–OM–WB" 2513+35.99	152.01	LT	306013.96	353782.21
F9	3/4	2512+96.79	64.58	LT	305915.26	353746.37	172.88						
F10	PT	2513+10.41	53.84	LT	305910.20	353766.12	174.11						
F11	PI	2513+25.00	46.39	LT	305907.22	353785.33	175.14						
F12	PI	2513+50.00	37.12	LT	305902.44	353816.17	176.84						
F13	PI	2513+75.00	31.66	LT	305897.93	353845.27	178.49						
F14	PI	2514+00.00	29.14	LT	305893.88	353871.37	179.94						
F15	PC	2514+00.93	29.06	LT	305893.74	353872.29	179.99						
F16	1/4	2514+27.58	27.26	LT	305890.17	353898.76	181.48						
F17	1/2	2514+55.19	26.11	LT	305887.65	353925.35	183.00	673.50	"X–OM–WB" 2515+08.26	698.00	LT	306559.28	353975.48
F18	3/4	2514+82.76	24.98	LT	305886.19	353952.01	184.50						
F19	PT	2515+09.46	24.50	LT	305885.79	353978.72	185.90						
F20	PI	2515+25.00	24.50	LT	305885.84	353994.25	186.67						
F21	PI	2515+50.00	24.50	LT	305885.91	354019.25	187.89						
F22	PI	2515+68.79	24.50	LT	305885.97	354038.04	188.89						

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – WEST APPROACH: INTERNAL EDGE OF PAVEMENT (WEST)

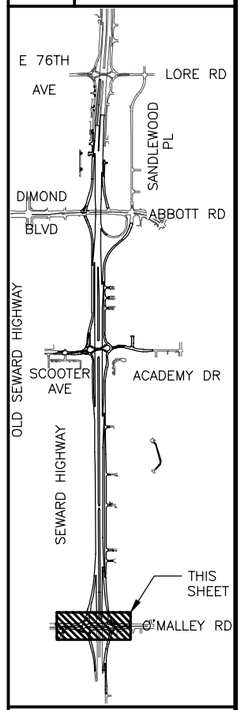
POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
G1	PI	"X–OM–WB"	2501+30.00	0.00	RT	305864.37	352625.20	160.27						
G2	PI	"X–OM–WB"	2501+65.37	0.00	RT	305864.31	352660.58	160.29						
G3	PT	"X–OM–WB"	2501+70.70	0.00	RT	305864.31	352665.89	160.27						
G4	PI	"X–OM–WB"	2501+70.70	28.41	RT	305835.90	352665.91	160.85						
G5	PI	"X–OM–WB"	2501+75.00	27.86	RT	305836.46	352670.25	160.83						
G6	PI	"X–OM–WB"	2502+00.00	24.77	RT	305839.69	352695.45	160.69						
G7	PI	"X–OM–WB"	2502+25.00	21.90	RT	305842.92	352720.60	160.59						
G8	PI	"X–OM–WB"	2502+50.00	19.25	RT	305846.14	352745.71	160.52						
G9	PI	"X–OM–WB"	2502+75.00	16.80	RT	305849.36	352770.77	160.48						
G10	PI	"X–OM–WB"	2503+00.00	14.58	RT	305852.57	352795.79	160.48						
G11	PI	"X–OM–WB"	2503+05.93	14.08	RT	305853.33	352801.72	160.48						
G12	PI	"X–OM–WB"	2503+25.00	14.00	RT	305854.34	352820.86	160.53						
G13	PI	"X–OM–WB"	2503+50.00	14.00	RT	305855.65	352845.83	160.63						
G14	PC	"X–OM–WB"	2503+55.56	14.00	RT	305855.94	352851.39	160.66						
G15	1/2	"X–OM–WB"	2503+60.55	18.69	RT	305851.52	352856.62	160.63	5.00	"X–OM–WB" 2503+55.56	19.00	RT	305850.95	352851.65
G16	PT	"X–OM–EB"	2603+57.28	38.59	LT	305846.03	352852.53	160.56						
G17	PI	"X–OM–EB"	2603+50.00	37.31	LT	305844.72	352845.26	160.54						
G18	PI	"X–OM–EB"	2603+36.96	35.00	LT	305842.38	352832.23	160.74						
G19	PI	"X–OM–EB"	2603+25.00	35.00	LT	305842.34	352820.27	160.98						
G20	PI	"X–OM–EB"	2603+00.00	35.00	LT	305842.27	352795.27	161.35						
G21	PI	"X–OM–EB"	2602+92.11	35.00	LT	305842.25	352787.38	161.35						
G22	PC	"X–OM–EB"	2602+82.72	33.14	LT	305840.36	352777.99	161.26						
G23	1/2	"X–OM–EB"	2602+80.25	32.20	LT	305839.41	352775.52	160.23	8.00	"X–OM–EB" 2602+80.25	32.20	LT	305839.41	352775.52
G24	PT	"X–OM–EB"	2602+78.22	30.51	LT	305837.72	352773.50	161.19						
G25	PI	"X–OM–EB"	2602+75.00	26.79	LT	305833.98	352770.29	161.12						
G26	PC	"X–OM–EB"	2602+67.28	17.84	LT	305825.01	352762.60	160.96						
G27	1/2	"X–OM–EB"	2602+62.85	14.51	LT	305821.67	352758.18	160.90	13.00	"X–OM–EB" 2602+57.44	26.33	LT	305833.48	352752.73
G28	PT	"X–OM–EB"	2602+57.44	13.33	LT	305820.48	352752.77	160.89						
G29	PI	"X–OM–EB"	2602+50.00	13.33	LT	305820.45	352745.33	160.91						
G30	PI	"X–OM–EB"	2602+25.00	13.33	LT	305820.38	352720.33	161.01						
G31	PI	"X–OM–EB"	2602+15.05	13.33	LT	305820.35	352710.38	161.05						

SHEET NO.	TOTAL SHEETS
G111	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G111_GRADING.DWG | DATE/TIME 4/5/2022 5:59 PM | LAYOUT G111 | DESIGNED – | CHECKED – | DRAFTED –

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – WEST ISLAND: EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
H1	PT	"X–OM–WB"	2503+10.61	39.85	RT	305827.80	352807.63	160.97						
H2	PI	"X–OM–WB"	2503+25.00	40.52	RT	305827.85	352822.23	160.92						
H3	PI	"X–OM–WB"	2503+36.27	41.09	RT	305827.88	352833.54	160.88						
H4	PI	"X–OM–WB"	2503+50.00	39.35	RT	305830.33	352847.17	160.82						
H5	PI	"X–OM–WB"	2503+75.00	36.21	RT	305834.79	352871.97	160.57						
H6	PI	"X–OM–WB"	2504+00.00	33.06	RT	305839.24	352896.77	160.71						
H7	PI	"X–OM–WB"	2504+25.00	29.91	RT	305843.70	352921.57	160.82						
H8	PI	"X–OM–WB"	2504+50.00	26.76	RT	305848.16	352946.37	160.93						
H9	PI	"X–OM–WB"	2504+75.00	23.61	RT	305852.62	352971.17	161.04						
H10	PI	"X–OM–WB"	2505+00.00	20.46	RT	305857.08	352995.97	161.15						
H11	PI	"X–OM–WB"	2505+25.00	17.31	RT	305861.53	353020.77	161.25						
H12	PI	"X–OM–WB"	2505+50.00	14.16	RT	305865.99	353045.57	161.36						
H13	PC	"X–OM–WB"	2505+51.25	14.00	RT	305866.21	353046.80	161.37						
H14	1/4	"X–OM–WB"	2505+75.41	14.00	RT	305866.14	353069.39	161.52						
H15	1/2	"X–OM–WB"	2505+99.57	14.00	RT	305863.56	353091.83	161.66	203.00	"X–OM–WB" 2506+47.88	217.00	RT	305663.49	353057.46
H16	3/4	"X–OM–WB"	2506+23.72	14.00	RT	305858.50	353113.85	161.80						
H17	PT	"X–OM–WB"	2506+47.88	14.00	RT	305851.03	353135.17	161.95						
H18	PC	"X–OM–WB"	2506+51.25	14.00	RT	305849.74	353138.28	161.97						
H19	1/2	"X–OM–WB"	2506+54.95	16.47	RT	305846.05	353140.75	162.00	4.00	"X–OM–WB" 2506+51.25	18.00	RT	305846.05	353136.75
H20	PT	"X–OM–EB"	2606+56.44	28.00	LT	305842.35	353138.28	161.97						
H21	PC	"X–OM–EB"	2606+51.06	28.00	LT	305840.29	353133.30	161.95						
H22	1/4	"X–OM–EB"	2606+25.29	28.00	LT	305833.00	353112.16	161.85						
H23	1/2	"X–OM–EB"	2605+99.52	28.00	LT	305828.31	353090.28	161.74	185.00	"X–OM–EB" 2606+51.06	213.00	LT	306011.22	353062.53
H24	3/4	"X–OM–EB"	2605+73.75	28.00	LT	305826.30	353068.00	161.64						
H25	PCC	"X–OM–EB"	2605+47.97	28.00	LT	305826.99	353045.64	161.54						
	PCC	"X–OM–EB"	2605+47.97	28.00	LT	305826.99	353045.64	161.54						
H26	1/4	"X–OM–EB"	2605+28.33	28.00	LT	305828.71	353025.80	161.46						
H27	1/2	"X–OM–EB"	2605+08.69	28.00	LT	305830.23	353005.94	161.38	2028.00	"X–OM–EB" 2605+47.97	2000.00	RT	303807.45	352860.58
H28	3/4	"X–OM–EB"	2604+89.05	28.00	LT	305831.56	352986.07	161.39						
H29	PT	"X–OM–EB"	2604+69.41	28.00	LT	305832.70	352966.19	161.46						
H30	PI	"X–OM–EB"	2604+50.00	25.07	LT	305830.70	352946.41	161.51						
H31	PI	"X–OM–EB"	2604+25.00	21.59	LT	305828.13	352921.01	161.50						
H32	PI	"X–OM–EB"	2604+00.00	18.43	LT	305825.58	352895.69	161.42						
H33	PI	"X–OM–EB"	2603+75.00	15.60	LT	305823.03	352870.45	161.28						
H34	PI	"X–OM–EB"	2603+59.43	14.00	LT	305821.44	352854.76	161.18						
H35	PI	"X–OM–EB"	2603+50.00	14.00	LT	305821.41	352845.33	161.14						
H36	PI	"X–OM–EB"	2603+25.00	14.00	LT	305821.34	352820.33	161.06						
H37	PC	"X–OM–EB"	2603+12.32	14.00	LT	305821.30	352807.65	160.99						
H38	1/2	"X–OM–EB"	2603+09.07	17.25	LT	305824.55	352804.39	160.97	3.25	"X–OM–EB" 2603+12.32	17.25	LT	305825.55	352807.64
H1	PT	"X–OM–WB"	2503+10.61	39.85	RT	305827.80	352807.63	160.97						

SHEET NO.	TOTAL SHEETS
G112	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
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DATE	
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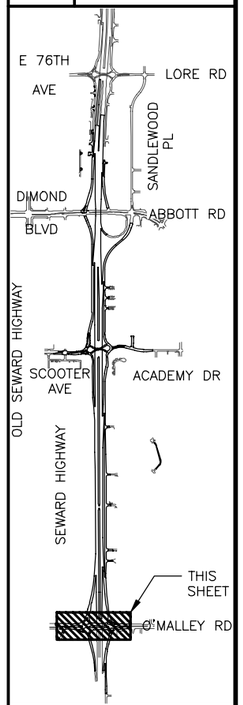
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

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EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – CENTRAL ISLAND: EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
J1	PT	"X-OM-EB"	2607+73.03	21.01	RT	305841.68	353264.74	162.92						
J2	PC	"X-OM-EB"	2607+77.47	21.00	RT	305843.26	353268.59	162.94						
J3	1/4	"X-OM-EB"	2608+06.02	21.00	RT	305851.21	353293.10	163.04						
J4	1/2	"X-OM-EB"	2608+34.56	21.00	RT	305855.88	353318.44	163.17	196.00	"X-OM-EB" 2607+74.62	217.00	RT	305661.20	353341.20
J5	3/4	"X-OM-EB"	2608+63.11	21.00	RT	305857.18	353344.17	163.34						
J6	PCC	"X-OM-EB"	2608+91.65	21.00	RT	305855.10	353369.85	163.60						
	PCC	"X-OM-EB"	2608+91.65	21.00	RT	305855.10	353369.85	163.60						
J7	1/4	"X-OM-EB"	2609+39.30	21.00	RT	305849.39	353418.41	164.39						
J8	1/2	"X-OM-EB"	2609+86.95	21.00	RT	305846.59	353467.22	165.31	821.00	"X-OM-EB" 2610+82.25	800.00	LT	306667.27	353489.89
J9	3/4	"X-OM-EB"	2610+34.60	21.00	RT	305846.69	353516.12	166.32						
J10	PCC	"X-OM-EB"	2610+82.25	21.00	RT	305849.71	353564.91	167.32						
	PCC	"X-OM-EB"	2610+82.25	21.00	RT	305849.71	353564.91	167.32						
J11	1/4	"X-OM-EB"	2611+03.40	21.00	RT	305850.40	353583.73	167.87						
J12	1/2	"X-OM-EB"	2611+24.54	21.00	RT	305849.01	353602.50	168.60	171.00	"X-OM-EB" 2611+66.84	192.00	RT	305679.42	353580.54
J13	3/4	"X-OM-EB"	2611+45.69	21.00	RT	305845.57	353621.01	169.39						
J14	PT	"X-OM-EB"	2611+66.84	21.00	RT	305840.11	353639.03	170.21						
J15	PC	"X-OM-EB"	2611+73.60	21.00	RT	305837.80	353645.38	170.47						
J16	1/2	"X-OM-EB"	2611+76.42	22.96	RT	305834.99	353647.36	170.56	3.00	"X-OM-EB" 2611+73.60	24.00	RT	305834.98	353644.36
J17	PT	"X-OM-WB"	2511+74.39	21.01	LT	305832.17	353645.41	170.48						
J18	PC	"X-OM-WB"	2511+69.02	21.00	LT	305830.47	353640.67	170.26						
J19	1/4	"X-OM-WB"	2511+45.01	21.00	LT	305824.44	353619.74	169.33						
J20	1/2	"X-OM-WB"	2511+20.99	21.00	LT	305820.65	353598.28	168.45	206.00	"X-OM-WB" 2510+72.96	227.00	LT	306025.13	353573.29
J21	3/4	"X-OM-WB"	2510+96.97	21.00	LT	305819.16	353576.55	167.64						
J22	PCC	"X-OM-WB"	2510+72.96	21.00	LT	305819.97	353554.78	166.98						
	PCC	"X-OM-WB"	2510+72.96	21.00	LT	305819.97	353554.78	166.98						
J23	1/4	"X-OM-WB"	2510+28.24	21.00	LT	305822.94	353509.12	165.93						
J24	1/2	"X-OM-WB"	2509+83.52	21.00	LT	305823.65	353463.36	165.09	921.00	"X-OM-WB" 2510+72.96	900.00	RT	304902.69	353472.00
J25	3/4	"X-OM-WB"	2509+38.79	21.00	LT	305822.08	353417.63	164.42						
J26	PCC	"X-OM-WB"	2508+94.07	21.00	LT	305818.24	353372.03	163.83						
	PCC	"X-OM-WB"	2508+94.07	21.00	LT	305818.24	353372.03	163.83						
J27	1/4	"X-OM-WB"	2508+64.99	21.00	LT	305817.06	353345.68	163.57						
J28	1/2	"X-OM-WB"	2508+35.91	21.00	LT	305819.26	353319.40	163.33	206.00	"X-OM-WB" 2507+80.21	227.00	LT	306023.03	353349.66
J29	3/4	"X-OM-WB"	2508+06.82	21.00	LT	305824.80	353293.61	163.09						
J30	PT	"X-OM-WB"	2507+77.97	21.01	LT	305833.58	353268.75	162.94						
J31	PC	"X-OM-WB"	2507+73.67	21.00	LT	305835.22	353264.77	162.92						
J32	1/2	"X-OM-WB"	2507+70.44	23.15	LT	305838.44	353262.61	162.91	3.50	"X-OM-WB" 2507+73.67	24.50	LT	305838.45	353266.11
J1	PT	"X-OM-EB"	2607+73.03	21.01	RT	305841.68	353264.74	162.92						

SHEET NO.	TOTAL SHEETS
G113	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
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NO.	REVISION
DATE	
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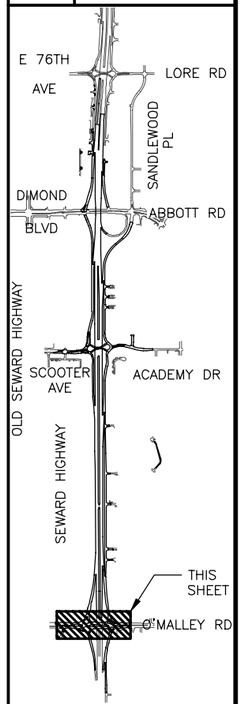
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

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EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – EAST ISLAND: EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
K1	PT	"X-OM-WB"	2512+89.77	14.00	RT	305838.73	353765.80	175.31						
K2	PC	"X-OM-WB"	2512+93.78	14.00	RT	305840.11	353769.57	175.46						
K3	1/4	"X-OM-WB"	2513+16.33	14.00	RT	305846.28	353789.73	176.35						
K4	1/2	"X-OM-WB"	2513+38.87	14.00	RT	305850.33	353810.42	177.33	203.00	"X-OM-WB" 2512+93.78	217.00	RT	305649.35	353839.00
K5	3/4	"X-OM-WB"	2513+61.42	14.00	RT	305852.21	353831.42	178.40						
K6	PT	"X-OM-WB"	2513+83.97	14.00	RT	305851.90	353852.50	179.57						
K7	PI	"X-OM-WB"	2514+00.00	14.00	RT	305850.83	353868.50	180.43						
K8	PC	"X-OM-WB"	2514+12.87	14.00	RT	305849.98	353881.34	181.13						
K9	1/4	"X-OM-WB"	2514+25.29	13.89	RT	305849.26	353893.74	181.80						
K10	1/2	"X-OM-WB"	2514+37.58	13.60	RT	305848.75	353906.15	182.46	714.00	"X-OM-WB" 2514+12.87	700.00	LT	306562.39	353928.84
K11	3/4	"X-OM-WB"	2514+49.76	13.29	RT	305848.47	353918.57	183.11						
K12	PT	"X-OM-WB"	2514+61.95	12.98	RT	305848.40	353930.99	183.76						
K13	PI	"X-OM-WB"	2514+75.00	12.77	RT	305848.44	353944.28	184.46						
K14	PI	"X-OM-WB"	2515+00.00	12.75	RT	305848.51	353969.36	185.81						
K15	PI	"X-OM-WB"	2515+25.00	12.75	RT	305848.59	353994.36	187.22						
K16	PI	"X-OM-WB"	2515+50.00	12.75	RT	305848.66	354019.36	188.64						
K17	PI	"X-OM-WB"	2515+68.78	12.75	RT	305848.72	354038.14	189.65						
K18	PI	"X-OM-EB"	2615+68.34	24.08	LT	305841.61	354038.16	189.71						
K19	PI	"X-OM-EB"	2615+50.00	22.65	LT	305840.12	354019.80	188.74						
K20	PI	"X-OM-EB"	2615+25.00	20.96	LT	305838.06	353994.37	187.42						
K21	PI	"X-OM-EB"	2615+00.00	19.81	LT	305836.01	353969.01	186.11						
K22	PC	"X-OM-EB"	2614+88.97	19.47	LT	305835.11	353957.83	185.49						
K23	1/4	"X-OM-EB"	2614+69.44	18.79	LT	305833.18	353938.07	184.38						
K24	1/2	"X-OM-EB"	2614+49.90	17.78	LT	305830.60	353918.37	183.26	600.00	"X-OM-EB" 2615+18.84	580.14	RT	305237.06	354006.22
K25	3/4	"X-OM-EB"	2614+30.37	16.44	LT	305827.36	353898.78	182.19						
K26	PCC	"X-OM-EB"	2614+10.83	14.76	LT	305823.48	353879.30	181.10						
	PCC	"X-OM-EB"	2614+10.83	14.76	LT	305823.48	353879.30	181.10						
K27	1/4	"X-OM-EB"	2613+81.37	14.00	LT	305819.38	353850.80	179.47						
K28	1/2	"X-OM-EB"	2613+50.58	14.00	LT	305819.32	353822.00	177.90	205.00	"X-OM-EB" 2613.94.73	219.00	LT	306023.84	353835.94
K29	3/4	"X-OM-EB"	2613+19.81	14.00	LT	305823.29	353793.50	176.52						
K30	PCC	"X-OM-EB"	2612+89.04	14.00	LT	305831.21	353765.83	175.30						
	PCC	"X-OM-EB"	2612+89.04	14.00	LT	305831.21	353765.83	175.30						
K31	1/2	"X-OM-EB"	2612+85.25	16.63	LT	305834.98	353763.17	175.01	4.00	"X-OM-EB" 2612+89.01	18.00	LT	305834.98	353767.17
K1	PT	"X-OM-WB"	2512+89.77	14.00	RT	305838.73	353765.80	175.31						

SHEET NO.	TOTAL SHEETS
G114	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
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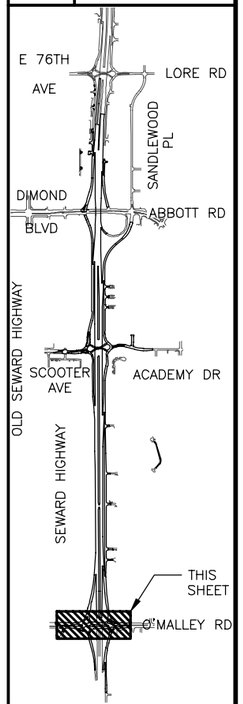

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O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G114_GRADING.DWG | DATE/TIME | 4/5/2022 6:00 PM | LAYOUT | G114 | DESIGNED | - | CHECKED | - | DRAFTED | -

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – "OM–3" DDI ISLAND: EDGE OF PAVEMENT

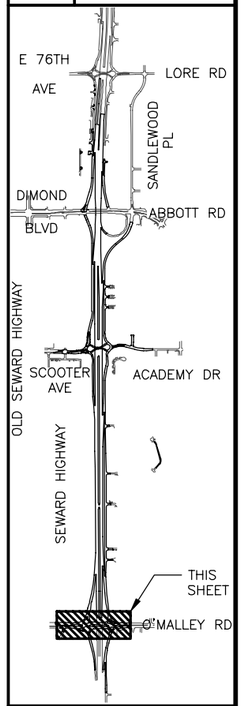
POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
L1	PCC	"X–OM–EB"	2605+75.48	18.69	LT	305779.69	353071.27	162.11						
L2	1/4	"X–OM–EB"	2605+95.04	19.25	LT	305780.92	353092.54	162.20						
L3	1/2	"X–OM–EB"	2606+15.72	19.85	LT	305784.32	353114.86	162.29	234.00	"X–OM–EB" 2606+57.49	213.00	LT	306013.68	353068.47
L4	3/4	"X–OM–EB"	2606+36.34	20.47	LT	305789.86	353136.74	162.37						
L5	PT	"X–OM–EB"	2606+57.49	21.00	LT	305797.48	353157.99	162.46						
L6	PI	"X–OM–EB"	2606+75.00	21.00	LT	305804.18	353174.17	162.53						
L7	PI	"X–OM–EB"	2607+00.00	21.00	LT	305813.74	353197.27	162.54						
L8	PC	"X–OM–EB"	2607+08.20	21.00	LT	305816.88	353204.85	162.49						
L9	1/2	"X–OM–WB"	2507+26.30	18.23	LT	305817.11	353205.99	162.48	3.00	"X–OM–WB" 2507+27.45	21.00	RT	305814.11	353205.99
L10	PT	"X–OM–WB"	2507+27.45	18.00	RT	305816.88	353207.14	162.48						
L11	PI	"X–OM–WB"	2507+50.00	18.00	RT	305808.25	353227.97	162.43						
L12	PI	"X–OM–WB"	2507+75.00	18.00	RT	305798.68	353251.07	162.55						
L13	PC	"X–OM–WB"	2507+80.21	18.00	RT	305796.69	353255.88	162.57						
L14	1/4	"X–OM–WB"	2507+90.35	18.00	RT	305792.72	353266.08	162.61						
L15	1/2	"X–OM–WB"	2508+00.49	18.00	RT	305789.22	353276.45	162.65	245.00	"X–OM–WB" 2507+80.21	227.00	LT	306023.03	353349.66
L16	3/4	"X–OM–WB"	2508+10.63	18.00	RT	305786.18	353286.97	162.65						
L17	PCC	"X–OM–WB"	2508+20.78	18.00	RT	305783.62	353297.62	162.65						
	PCC	"X–OM–WB"	2508+20.78	18.00	RT	305783.62	353297.62	162.65						
L18	1/2	"X–OM–WB"	2508+24.13	20.40	RT	305780.52	353300.68	162.60	4.00	"X–OM–WB" 2508+20.78	22.00	RT	305779.71	353296.76
L19	PCC	"X–OM–WB"	2508+23.46	24.69	RT	305776.47	353299.10	162.55						
	PCC	"X–OM–WB"	2508+23.46	24.69	RT	305776.47	353299.10	162.55						
L20	1/4	"X–OM–WB"	2508+11.95	43.99	RT	305760.66	353281.84	162.50						
L21	1/2	"X–OM–WB"	2508+05.88	66.15	RT	305741.27	353268.73	162.62	100.00	"X–OM–WB" 2508+74.84	100.79	RT	305695.33	353357.55
L22	3/4	"X–OM–WB"	2508+04.53	89.49	RT	305719.36	353260.48	162.89						
L23	PCC	"X–OM–WB"	2508+07.03	112.62	RT	305696.14	353257.55	163.32						
	PCC	"X–OM–WB"	2508+07.03	112.62	RT	305696.14	353257.55	163.32						
L24	1/2	"X–OM–EB"	2508+06.39	114.89	RT	305694.21	353256.01	163.31	2.00	"X–OM–EB" 2607+08.88	151.84	RT	305696.26	353255.53
L25	PCC	"X–OM–EB"	2607+06.87	152.11	RT	305695.24	353253.77	163.30						
	PCC	"X–OM–EB"	2607+06.87	152.11	RT	305695.24	353253.77	163.30						
L26	1/4	"X–OM–EB"	2607+01.75	127.87	RT	305715.68	353239.77	163.42						
L27	1/2	"X–OM–EB"	2606+90.84	105.63	RT	305732.04	353221.18	163.19	100.00	"X–OM–EB" 2606+26.17	165.04	RT	305649.38	353164.91
L28	3/4	"X–OM–EB"	2606+74.79	86.76	RT	305743.34	353199.13	163.00						
L29	PT	"X–OM–EB"	2606+54.59	72.41	RT	305748.87	353174.98	162.79						
L30	PI	"X–OM–EB"	2606+50.00	69.76	RT	305749.44	353169.40	162.58						
L31	PC	"X–OM–EB"	2606+32.54	58.84	RT	305751.98	353144.32	162.65						
L32	1/4	"X–OM–EB"	2606+18.47	51.23	RT	305754.54	353125.23	162.62	298.00	"X–OM–EB" 2607+68.62	204.63	LT	306048.46	353174.35
L33	1/2	"X–OM–EB"	2606+03.97	43.66	RT	305758.33	353106.33	162.51						
L34	3/4	"X–OM–EB"	2605+89.02	36.17	RT	305763.33	353087.72	162.37						
L35	PCC	"X–OM–EB"	2605+73.56	28.79	LT	305769.52	353069.48	162.24						
	PCC	"X–OM–EB"	2605+73.56	28.79	LT	305769.52	353069.48	162.24						
L36	1/2	"X–OM–EB"	2605+70.71	22.89	LT	305775.36	353066.15	162.17	5.25	"X–OM–EB" 2605+75.34	23.94	RT	305774.44	353071.31
L1	PCC	"X–OM–EB"	2605+75.48	18.69	LT	305779.69	353071.27	162.11						

SHEET NO.	TOTAL SHEETS
G115	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G115_GRADING.DWG | DATE/TIME 4/5/2022 6:00 PM | LAYOUT G115 | DESIGNED – | CHECKED – | DRAFTED –

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – RAMP "OM–4" DDI ISLAND: EDGE OF PAVEMENT

POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
M1	PT	"X–OM–WB"	2506+50.93	23.43	LT	305884.44	353152.30	162.33						
M2	PC	"X–OM–WB"	2506+66.14	93.03	LT	305942.92	353193.00	162.10						
M3	1/4	"X–OM–WB"	2506+69.79	111.88	LT	305958.94	353203.59	161.91						
M4	1/2	"X–OM–WB"	2506+72.54	130.89	LT	305975.45	353213.41	161.73	402.75	"X–OM–WB" 2503+83.23	302.02	LT	306172.98	352862.42
M5	3/4	"X–OM–WB"	2506+74.38	150.01	LT	305992.41	353222.43	161.54						
M6	PT	"X–OM–WB"	2506+75.30	168.73	LT	306009.35	353230.44	161.36						
M7	PC	"X–OM–WB"	2506+75.31	169.19	LT	306009.78	353230.63	161.36						
M8	1/2	"X–OM–EB"	2607+96.96	149.89	LT	306012.81	353236.40	162.41	5.25	"X–OM–EB" 2607+95.51	145.23	LT	306007.65	353235.43
M9	PCC	"X–OM–EB"	2607+98.57	143.95	LT	306007.87	353240.67	161.28						
	PCC	"X–OM–EB"	2607+98.57	143.95	LT	306007.87	353240.67	161.28						
M10	1/4	"X–OM–EB"	2607+94.87	115.86	LT	305979.26	353243.06	161.56						
M11	1/2	"X–OM–EB"	2607+92.12	87.44	LT	305950.94	353247.76	161.88	352.75	"X–OM–EB" 2611+06.84	151.65	LT	306022.85	353593.10
M12	3/4	"X–OM–EB"	2607+90.63	58.80	LT	305923.10	353254.75	162.18						
M13	PCC	"X–OM–EB"	2607+90.84	30.09	LT	305895.92	353263.98	162.49						
	PCC	"X–OM–EB"	2607+90.84	30.09	LT	305895.92	353263.98	162.49						
M14	1/2	"X–OM–EB"	2607+90.36	28.62	LT	305894.35	353263.92	162.51	2.00	"X–OM–EB" 2607+89.09	30.00	LT	305895.20	353262.11
M15	PT	"X–OM–EB"	2607+89.09	28.00	LT	305893.31	353262.75	162.50						
M16	PI	"X–OM–EB"	2607+75.00	28.00	LT	305887.73	353247.86	162.44						
M17	PI	"X–OM–EB"	2607+50.00	28.00	LT	305878.14	353224.72	162.35						
M18	PI	"X–OM–EB"	2607+25.00	28.00	LT	305868.58	353201.62	162.54						
M19	PC	"X–OM–EB"	2607+17.26	28.00	LT	305865.62	353194.46	162.59						
M20	1/2	"X–OM–WB"	2506+95.79	21.30	LT	305865.31	353192.93	162.58	4.00	"X–OM–WB" 2506+94.25	25.00	LT	305869.31	353192.93
M21	PT	"X–OM–WB"	2506+94.25	21.00	LT	305865.62	353191.40	162.57						
M22	PI	"X–OM–WB"	2506+75.00	21.00	LT	305872.99	353173.61	162.46						
M23	PC	"X–OM–WB"	2506+52.88	21.00	LT	305881.45	353153.18	162.33						
M24	1/2	"X–OM–WB"	2506+51.32	21.75	LT	305882.74	353152.03	162.33	2.00	"X–OM–WB" 2506+52.88	23.00	LT	305883.30	353153.95
M1	PT	"X–OM–WB"	2506+50.93	23.43	LT	305884.44	353152.30	162.33						

EDGE OF PAVEMENT LAYOUT

O'MALLEY ROAD – "OM–2" DDI ISLAND: EDGE OF PAVEMENT

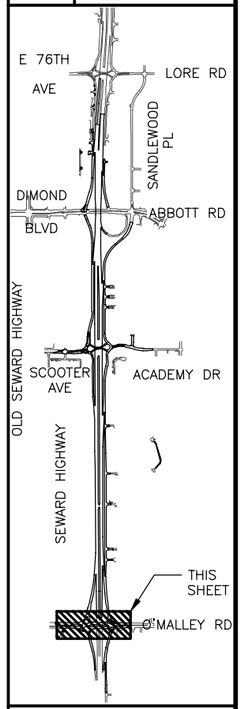
POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
N1	PCC	"X–OM–WB"	2511+59.56	14.00	RT	305794.30	353642.56	170.24						
N2	1/2	"X–OM–WB"	2511+66.10	14.00	RT	305796.39	353649.18	170.50	241.00	"X–OM–WB" 2510+72.96	227.00	LT	306025.13	353573.29
N3	PT	"X–OM–WB"	2511+72.62	14.00	RT	305798.67	353655.71	170.75						
N4	PI	"X–OM–WB"	2511+75.00	14.00	RT	305799.48	353657.95	170.85						
N5	PI	"X–OM–WB"	2512+00.00	14.00	RT	305808.03	353681.45	171.85						
N6	PC	"X–OM–WB"	2512+22.87	14.00	RT	305815.85	353702.94	172.78						
N7	1/2	"X–OM–WB"	2512+24.24	14.24	RT	305816.10	353704.31	172.83	4.00	"X–OM–WB" 2512+22.87	18.00	RT	305812.10	353704.31
N8	PT	"X–OM–EB"	2612+37.76	21.00	RT	305815.85	353705.67	172.89						
N9	PI	"X–OM–EB"	2612+50.00	21.00	RT	305811.67	353717.17	173.38						
N10	PI	"X–OM–EB"	2612+75.00	21.00	RT	305803.12	353740.66	174.39						
N11	PC	"X–OM–EB"	2612+79.83	21.00	RT	305801.47	353745.21	174.59						
N12	1/2	"X–OM–EB"	2612+81.46	21.84	RT	305800.12	353746.45	174.65	2.00	"X–OM–EB" 2612+79.83	23.00	RT	305799.59	353744.52
N13	PT	"X–OM–EB"	2612+81.72	23.66	RT	305798.32	353746.07	174.70						
N14	PI	"X–OM–EB"	2612+75.00	43.01	RT	305782.43	353733.14	174.16						
N15	PC	"X–OM–EB"	2612+71.17	54.05	RT	305773.37	353725.76	173.88						
N16	1/4	"X–OM–EB"	2612+65.68	71.53	RT	305758.82	353714.63	173.46						
N17	1/2	"X–OM–EB"	2612+61.27	89.32	RT	305743.62	353704.40	173.03	302.00	"X–OM–EB" 2614+74.37	232.61	RT	305582.68	353959.94
N18	3/4	"X–OM–EB"	2612+57.94	107.31	RT	305727.84	353695.12	172.70						
N19	PCC	"X–OM–EB"	2612+55.72	125.48	RT	305711.54	353686.81	172.49						
	PCC	"X–OM–EB"	2612+55.72	125.48	RT	305711.54	353686.81	172.49						
N20	1/2	"X–OM–EB"	2612+51.50	130.19	RT	305708.55	353681.24	172.25	5.25	"X–OM–EB" 2612+50.48	125.04	RT	305713.74	353682.04
N21	PCC	"X–OM–EB"	2612+45.82	127.44	RT	305713.08	353676.84	172.06						
	PCC	"X–OM–EB"	2612+45.82	127.44	RT	305713.08	353676.84	172.06						
N22	1/4	"X–OM–EB"	2612+39.09	115.95	RT	305726.17	353674.45	171.80						
N23	1/2	"X–OM–EB"	2612+31.18	105.25	RT	305738.94	353670.67	171.51	124.00	"X–OM–EB" 2610+61.71	171.98	RT	305697.40	353553.83
N24	3/4	"X–OM–EB"	2612+22.16	95.46	RT	305751.22	353665.54	171.22						
N25	PT	"X–OM–EB"	2612+12.14	86.69	RT	305762.89	353659.13	170.93						
N26	PC	"X–OM–EB"	2611+85.79	66.02	RT	305791.33	353641.44	170.18						
N27	1/2	"X–OM–EB"	2611+85.02	64.42	RT	305793.09	353641.26	170.19	2.00	"X–OM–EB" 2611+87.02	64.44	RT	305792.39	353643.13
N1	PCC	"X–OM–WB"	2511+59.56	14.00	RT	305796.26	353648.78	170.24						

SHEET NO.	TOTAL SHEETS
G116	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

DATE/TIME 4/5/2022 6:00 PM | LAYOUT G116 | DESIGNED – | CHECKED – | DRAFTED –
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CURB LAYOUT TABLE

RAMP "OM-1" APPROACH – PEDESTRIAN ISLAND

POINT	DESCRIPTION	STATION		OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
										STATION	OFFSET	DIRECTION	NORTHING	EASTING
P1	PCC	"X-OM-EB"	2611+27.04	25.32	LT	305894.57	353611.25	169.09						
P2	1/4	"X-OM-EB"	2611+51.81	104.07	LT	305964.70	353659.73	169.61						
P3	1/2	"X-OM-EB"	2611+52.74	81.87	LT	305942.96	353655.08	169.88	85.00	"X-OM-EB" 2610+96.18	100.09	LT	305971.46	353575.00
P4	3/4	"X-OM-EB"	2611+49.41	60.06	LT	305923.12	353644.92	169.94						
P5	PCC	"X-OM-EB"	2611+40.95	40.51	LT	305906.62	353629.97	169.79						
	PCC	"X-OM-EB"	2611+40.95	40.51	LT	305906.62	353629.97	169.79						
P6	1/2	"X-OM-WB"	2512+33.53	142.32	LT	305966.39	353659.49	169.54	2.00	"X-OM-WB" 2512+33.09	140.37	LT	305964.41	353659.75
P7	PCC	"X-OM-WB"	2515+35.09	140.35	LT	305965.08	353661.63	169.58						
	PCC	"X-OM-WB"	2512+35.09	140.35	LT	305965.08	353661.63	169.58						
P8	1/4	"X-OM-WB"	2512+38.47	113.65	LT	305941.14	353673.94	170.26						
P9	1/2	"X-OM-WB"	2512+48.82	88.82	LT	305921.35	353692.15	171.06	100.25	"X-OM-WB" 2513+18.96	141.87	LT	305998.52	353756.14
P10	3/4	"X-OM-WB"	2512+65.40	67.63	LT	305907.11	353714.98	172.04						
P11	PT	"X-OM-WB"	2512+87.02	51.61	LT	305899.45	353740.78	173.21						
P12	PI	"X-OM-WB"	2513+00.00	43.89	LT	305896.96	353756.83	174.01						
P13	PI	"X-OM-WB"	2513+25.00	30.91	LT	305892.06	353788.49	175.72						
P14	PC	"X-OM-WB"	2513+27.20	29.98	LT	305891.65	353791.13	175.86						
P15	1/2	"X-OM-WB"	2513+30.23	24.10	LT	305886.51	353795.58	176.40	5.25	"X-OM-WB" 2513+25.59	25.05	LT	305886.46	353790.33
P16	PCC	"X-OM-WB"	2513+25.45	19.81	LT	305881.29	353791.23	176.40						
	PCC	"X-OM-WB"	2513+25.45	19.81	LT	305881.29	353791.23	176.40						
P17	1/4	"X-OM-WB"	2513+16.35	20.11	LT	305879.38	353781.48	176.01						
P18	1/2	"X-OM-WB"	2513+06.57	20.45	LT	305876.87	353771.07	175.62	238.00	"X-OM-WB" 2512+86.35	217.00	RT	305646.81	353832.02
P19	3/4	"X-OM-WB"	2512+96.78	20.78	LT	305873.89	353760.77	175.23						
P20	PT	"X-OM-WB"	2512+86.35	21.00	LT	305870.45	353750.62	174.83						
P21	PI	"X-OM-WB"	2512+75.00	21.00	LT	305866.57	353739.95	174.36						
P22	PI	"X-OM-WB"	2512+50.00	21.00	LT	305858.02	353716.46	173.35						
P23	PC	"X-OM-WB"	2512+44.38	21.00	LT	305856.10	353711.18	173.12						
P24	1/2	"X-OM-EB"	2612+28.27	18.18	LT	305855.92	353710.15	173.08	3.00	"X-OM-EB" 2612+27.24	21.00	LT	305858.92	353710.15
P25	PT	"X-OM-EB"	2612+27.24	18.00	LT	305856.10	353709.13	173.03						
P26	PI	"X-OM-EB"	2612+25.00	18.00	LT	305856.87	353707.02	172.94						
P27	PI	"X-OM-EB"	2612+00.00	18.00	LT	305865.42	353683.53	171.93						
P28	PI	"X-OM-EB"	2611+75.00	18.00	LT	305873.97	353660.03	170.91						
P29	PC	"X-OM-EB"	2611+66.84	18.00	LT	305876.76	353652.37	170.60						
P30	1/4	"X-OM-EB"	2611+57.38	18.00	LT	305880.06	353642.56	170.23						
P31	1/2	"X-OM-EB"	2611+47.92	18.00	LT	305882.87	353632.61	169.86	210.00	"X-OM-EB" 2611+66.84	192.00	RT	305679.42	353580.54
P32	3/4	"X-OM-EB"	2611+38.47	18.00	LT	305885.18	353622.53	169.50						
P33	PCC	"X-OM-EB"	2611+29.01	18.00	LT	305887.00	353612.35	169.15						
	PCC	"X-OM-EB"	2611+29.01	18.00	LT	305887.00	353612.35	169.15						
P34	1/2	"X-OM-EB"	2611+25.56	20.87	LT	305890.38	353608.99	169.05	4.00	"X-OM-EB" 2611+29.01	22.00	LT	305890.96	353612.95
P1	PCC	"X-OM-EB"	2611+27.04	25.33	LT	305894.57	353611.25	169.13						

CURB LAYOUT TABLE

O'MALLEY RD WEST: GRADE BREAK

POINT	DESCRIPTION	STATION "X-OM-WB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
Q1	PI	2503+75.00	14.00	RT	305856.96	352870.80	160.68						
Q2	PI	2504+00.00	14.00	RT	305858.27	352895.77	160.76						
Q3	PI	2504+25.00	14.00	RT	305859.59	352920.73	160.83						
Q4	PI	2504+50.00	14.00	RT	305860.90	352945.70	160.91						
Q5	PI	2504+75.00	14.00	RT	305862.21	352970.66	160.99						
Q6	PI	2505+00.00	14.00	RT	305863.52	352995.63	161.07						
Q7	PI	2505+25.00	14.00	RT	305864.84	353020.59	161.07						

CURB LAYOUT TABLE

O'MALLEY RD WEST: GRADE BREAK

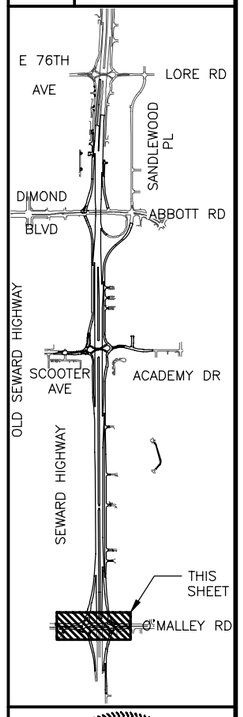
POINT	DESCRIPTION	STATION "X-OM-WB"	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
R1	PI	2512+95.34	83.06	LT	305932.04	353738.41	172.58						
R2	PI	2513+02.13	92.00	LT	305943.57	353744.57	172.78						
R3	PI	2513+15.07	73.18	LT	305930.44	353766.95	174.62						
R4	PI	2513+14.37	64.73	LT	305922.02	353768.17	174.68						

SHEET NO.	TOTAL SHEETS
G117	G117
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

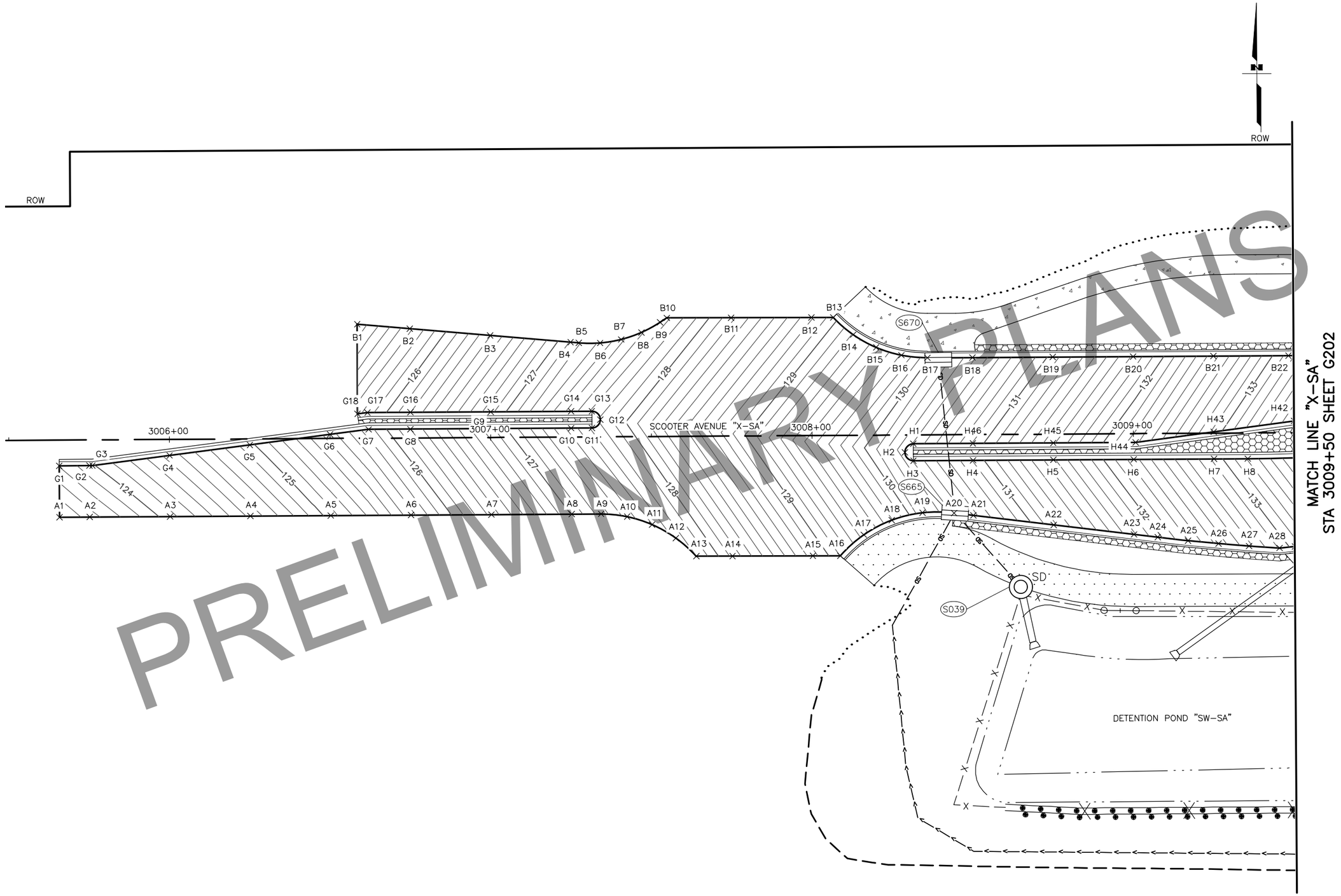
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY RD
GRADING TABLES

FILE | C:_PW_WORKDIR\DEN001\RK0537776\D08763321\00012_G117_GRADING.DWG | DATE/TIME | 4/5/2022 6:00 PM | LAYOUT | G117 | DESIGNED | - | CHECKED | - | DRAFTED | -

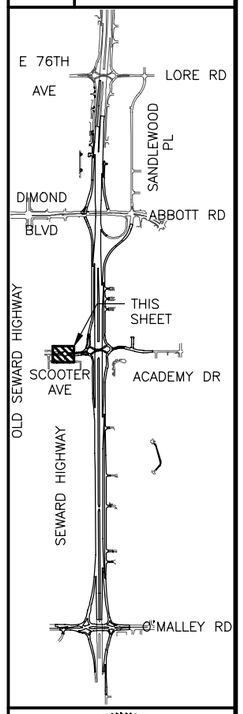


SHEET NO.	TOTAL SHEETS
G201	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

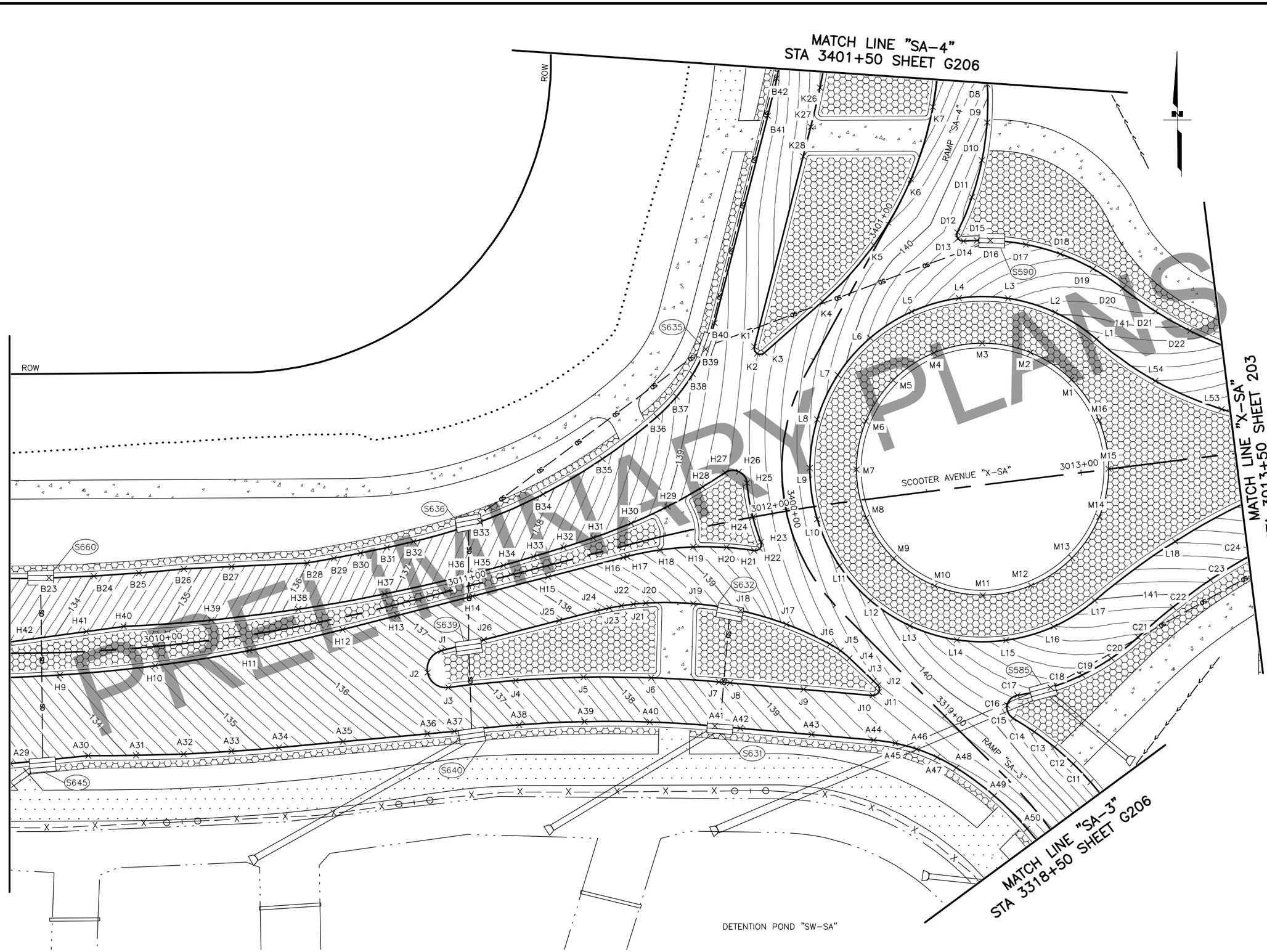
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVENUE "X-SA"
GRADING PLAN
3005+50 TO 3009+50

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763321\00012_G201_GRADING.DWG | DATE/TIME | 4/5/2022 6:00 PM | LAYOUT | G201 | DESIGNED | - | CHECKED | - | DRAFTED | -



SHEET NO.	TOTAL SHEETS
G202	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

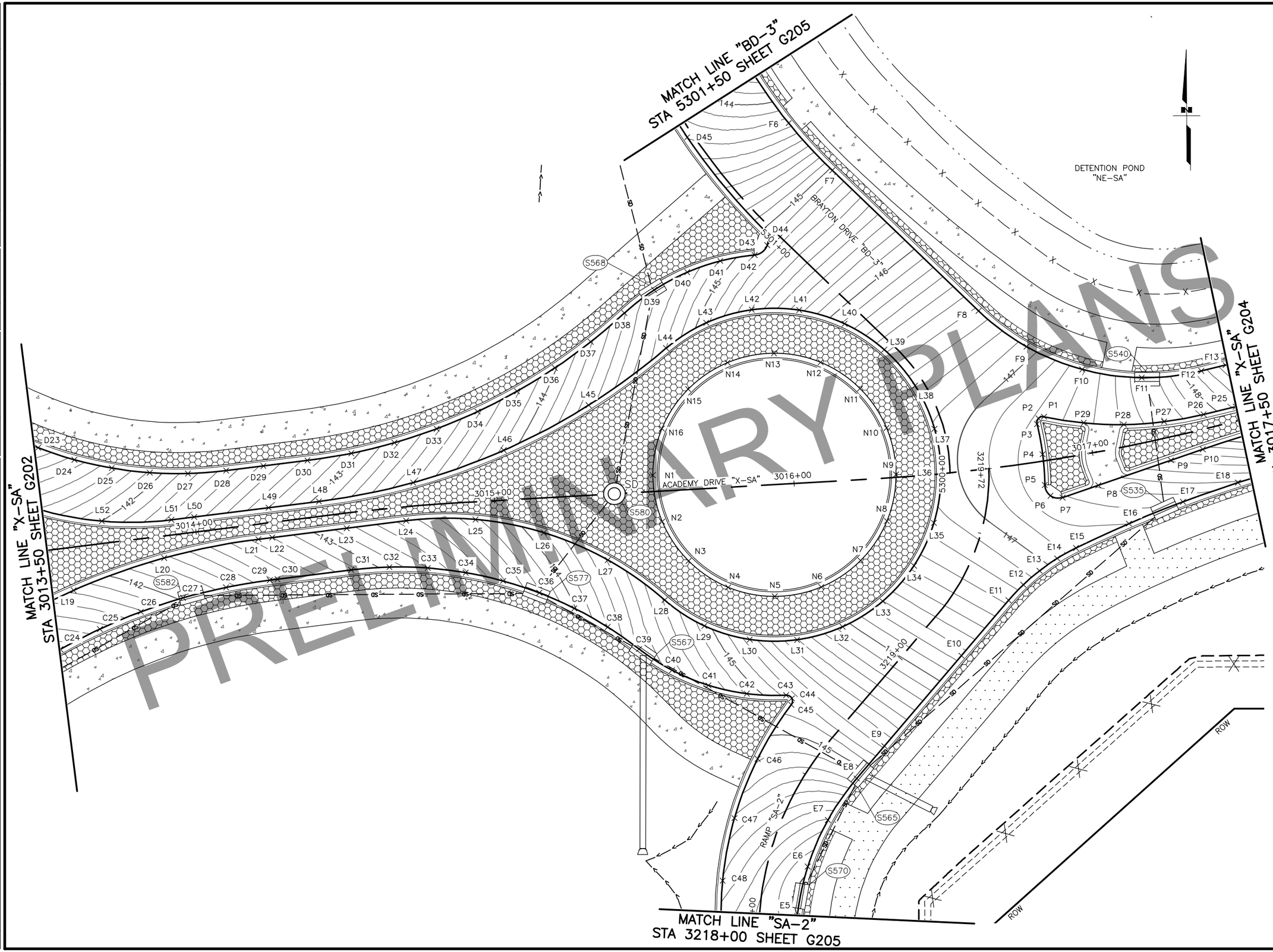
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVENUE "X-SA"
GRADING PLAN
3009+50 TO 3013+50

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/5/2022 6:00 PM	G202	-	-	-

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G202_GRADING.DWG

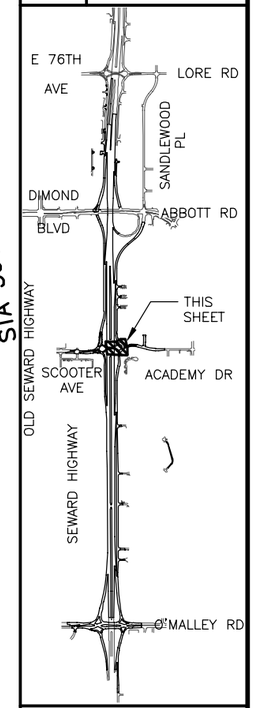


SHEET NO.	TOTAL SHEETS
G203	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

ACADEMY DRIVE "X-SA"
GRADING PLAN
3013+50 TO 3017+50

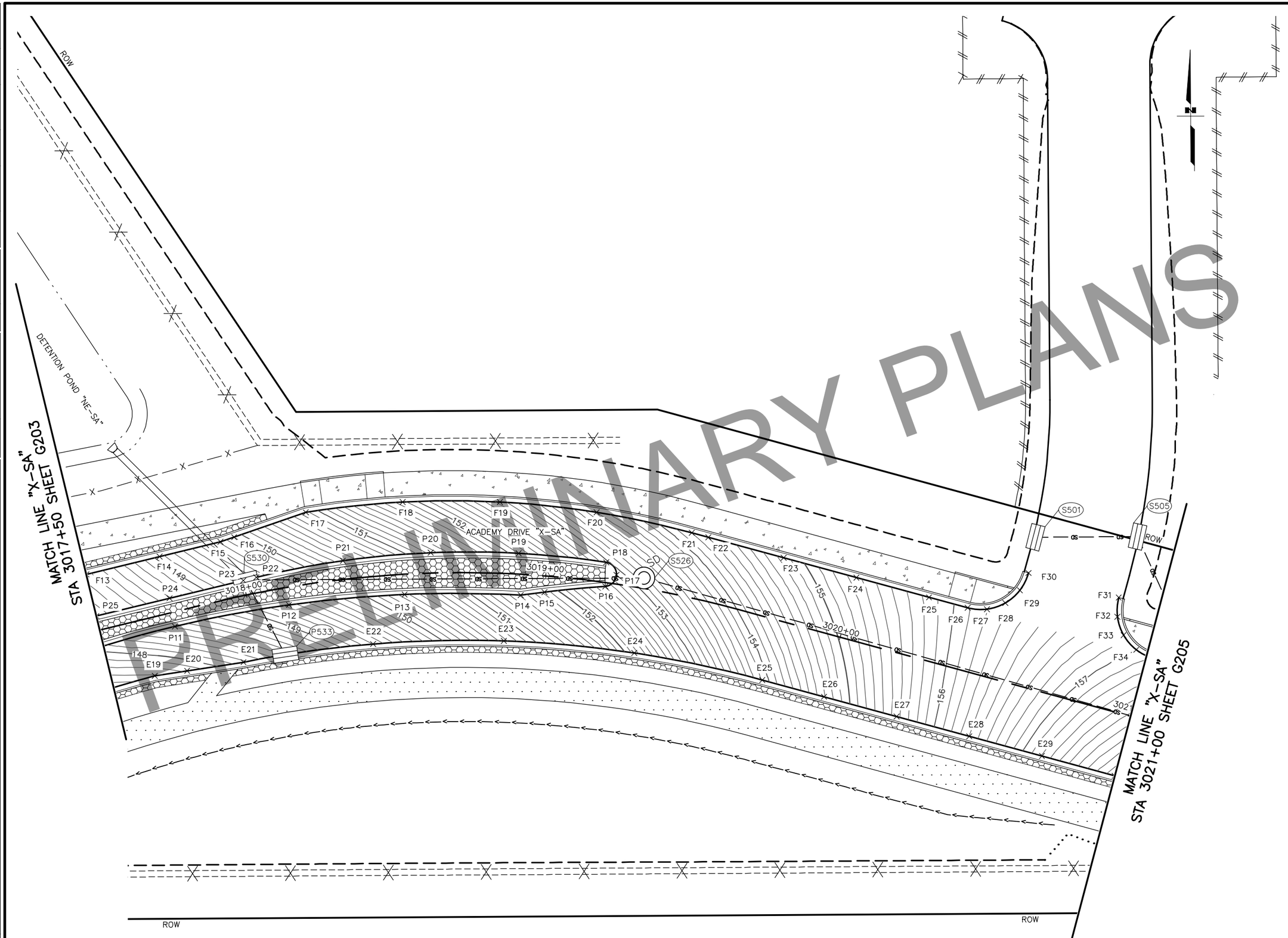
DATE/TIME | 4/5/2022 6:00 PM | LAYOUT | G203 | DESIGNED | - | CHECKED | - | DRAFTED | -

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G203_GRADING.DWG

DATE/TIME	DESIGNED	DRAFTED	CHECKED
4/5/2022 6:01 PM	-	-	-

LAYOUT
G204

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D08763321\00012_G204_GRADING.DWG

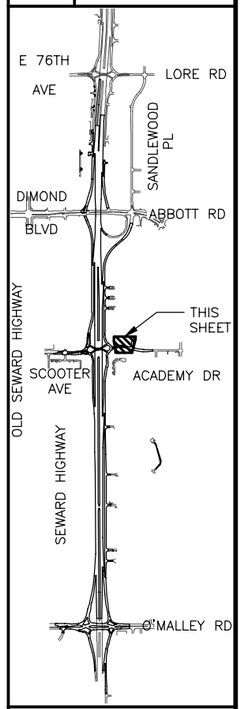


SHEET NO.	TOTAL SHEETS
G204	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



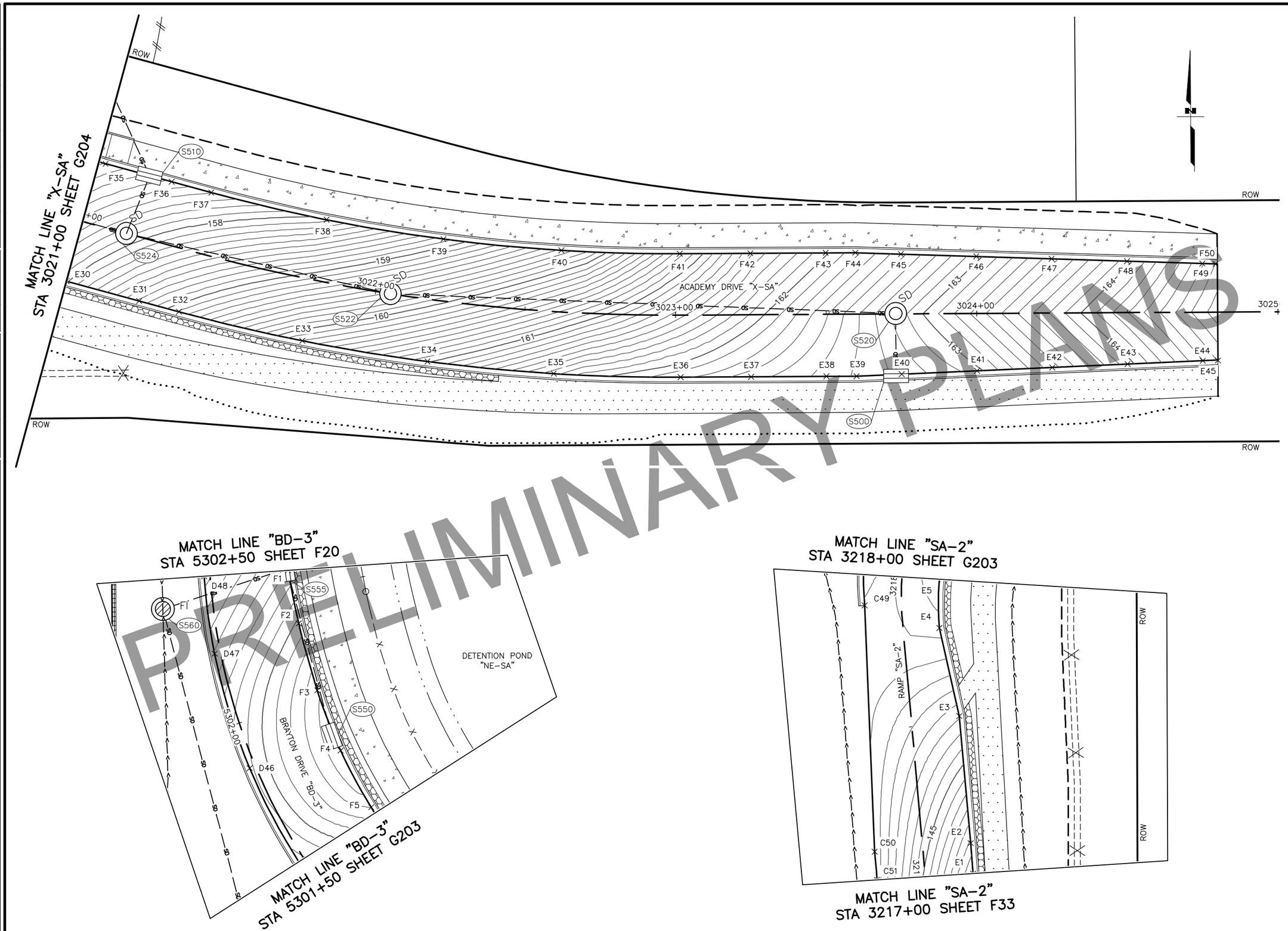
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

ACADEMY DRIVE "X-SA" & RAMPS GRADING PLAN 3017+50 TO 3021+00

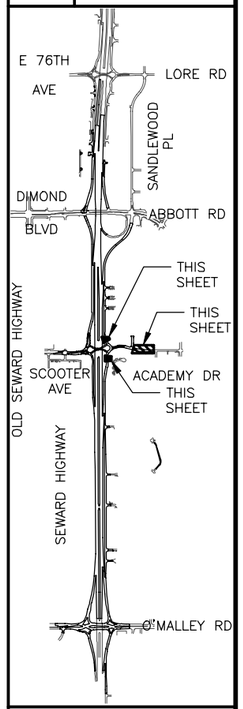


SHEET NO.	TOTAL SHEETS
G205	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

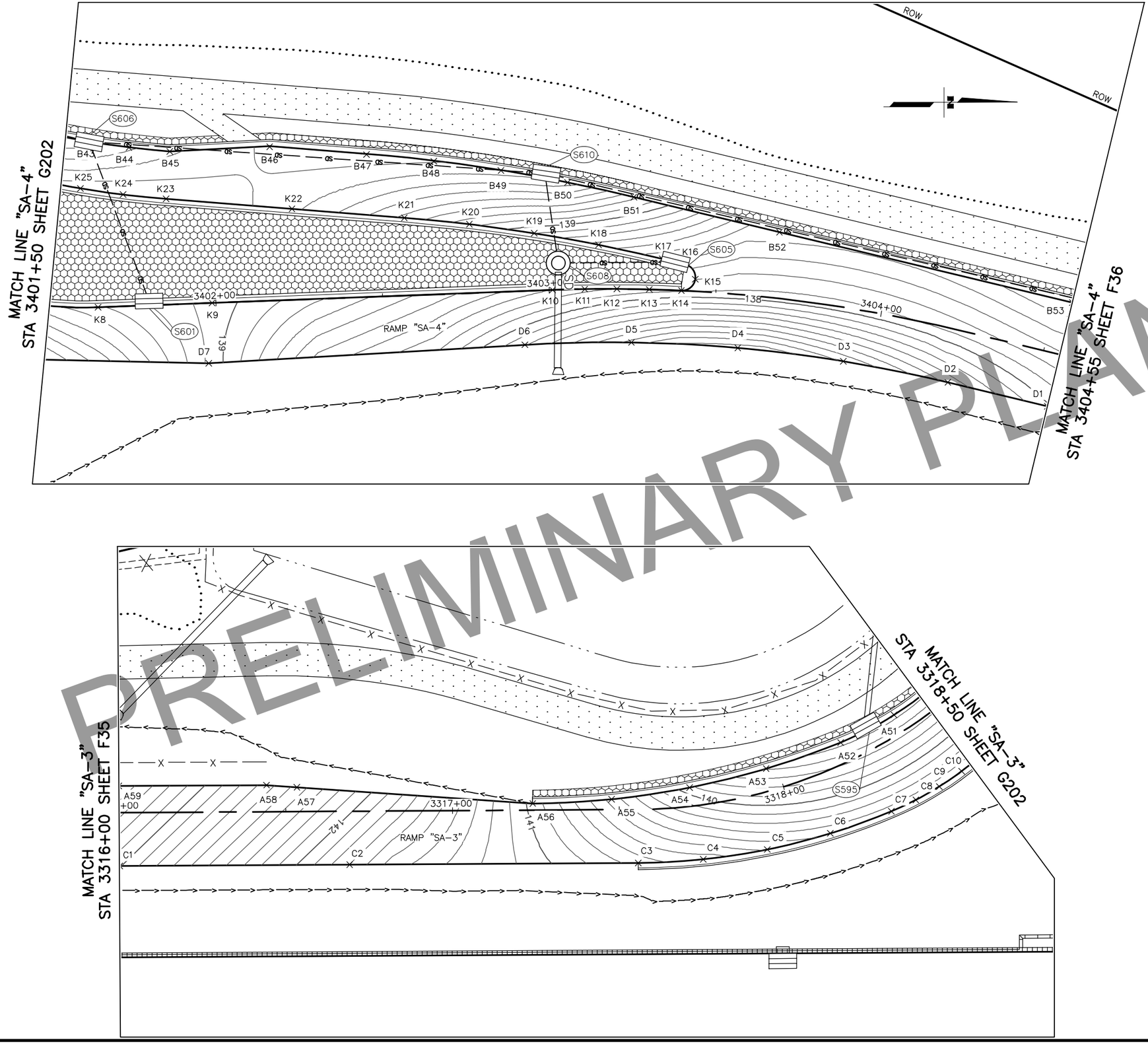
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
ACADEMY DRIVE "X-SA"
& RAMPS GRADING PLAN
3021+00 TO 3022+15
"BD-3" & "SA-2"

DATE/TIME 4/5/2022 6:01 PM | LAYOUT G205 | DESIGNED - | CHECKED - | DRAFTED -

FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G205_GRADING.DWG

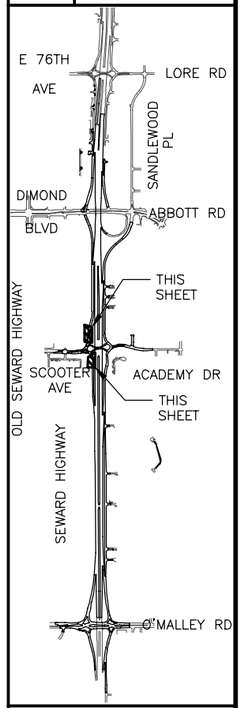


SHEET NO.	TOTAL SHEETS
G206	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SA RAMPS GRADING PLAN
"SA-3" & "SA-4"

FILE C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_G206_GRADING.DWG | DATE/TIME 4/5/2022 6:01 PM | LAYOUT G206 | DESIGNED - | CHECKED - | DRAFTED -

CURB LAYOUT TABLE

SCOOTER AVENUE WEST APPROACH SOUTH CURB LINE

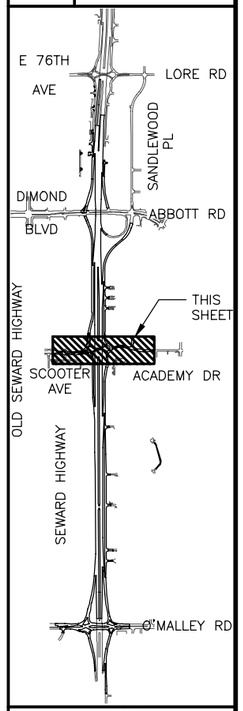
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
A1	PI	3005+65.65	24.00	RT	311053.07	352590.59	123.49						
A2	PI	3005+75.00	24.00	RT	311053.09	352599.93	123.65						
A3	PI	3006+00.00	24.00	RT	311053.17	352624.93	124.06						
A4	PI	3006+25.00	24.00	RT	311053.24	352649.93	124.53						
A5	PI	3006+50.00	24.00	RT	311053.32	352674.93	125.05						
A6	PI	3006+75.00	24.00	RT	311053.39	352699.93	125.66						
A7	PI	3007+00.00	24.00	RT	311053.46	352724.93	126.34						
A8	PI	3007+25.00	24.00	RT	311053.54	352749.93	127.01						
A9	PC	3007+34.19	24.00	RT	311053.56	352759.12	127.20						
A10	1/4	3007+42.28	24.90	RT	311052.69	352767.22	127.42						
A11	1/2	3007+50.03	27.42	RT	311050.19	352774.97	127.60	40.00	3007+33.85	64.00	RT	311013.56	352758.90
A12	3/4	3007+57.38	31.65	RT	311045.98	352782.34	127.73						
A13	PT	3007+63.74	37.29	RT	311040.36	352788.71	127.80						
A14	PI	3007+75.00	37.38	RT	311040.30	352799.97	128.13						
A15	PI	3008+00.00	37.45	RT	311040.30	352824.97	128.86						
A16	PC	3008+08.52	37.48	RT	311040.30	352833.50	129.10						
A17	1/4	3008+15.89	30.98	RT	311046.83	352840.85	129.45						
A18	1/2	3008+24.63	26.47	RT	311051.36	352849.57	129.79	40.00	3008+38.47	64.00	RT	311013.87	352863.52
A19	3/4	3008+34.19	24.23	RT	311053.63	352859.13	130.16						
A20	PT	3008+44.02	24.39	RT	311053.50	352868.95	130.42						
A21	PI	3008+50.00	25.13	RT	311052.77	352874.94	130.57						
A22	PI	3008+75.00	28.26	RT	311049.72	352899.94	131.18						
A23	PI	3009+00.00	31.38	RT	311046.67	352924.95	131.79						
A24	PC	3009+07.34	32.30	RT	311045.77	352932.30	131.97						
A25	1/4	3009+16.80	33.41	RT	311044.69	352941.76	132.20						
A26	1/2	3009+26.28	34.37	RT	311043.76	352951.24	132.43	616.00	3011+24.81	569.11	LT	311657.23	353006.91
A27	3/4	3009+35.77	35.19	RT	311042.97	352960.73	132.67						
A28	PT	3009+45.27	35.86	RT	311042.33	352970.23	132.91						
A29	PI	3009+50.00	35.40	RT	311042.79	352974.96	133.05						
A30	PC	3009+73.75	33.46	RT	311045.27	353000.09	133.71						
A31	1/4	3009+88.09	34.33	RT	311045.29	353015.42	134.07						
A32	1/2	3010+02.40	35.27	RT	311045.70	353030.75	134.42	612.00	3011+24.81	569.11	LT	311657.23	353006.91
A33	3/4	3010+16.68	36.25	RT	311046.49	353046.06	134.78						
A34	PT	3010+30.93	37.29	RT	311047.66	353061.35	135.13						
A35	PI	3010+50.00	39.12	RT	311049.49	353081.88	135.59						
A36	PI	3010+75.00	42.73	RT	311051.92	353109.05	136.18						
A37	PC	3010+83.47	44.10	RT	311052.69	353117.66	136.41						
A38	1/4	3011+04.22	47.23	RT	311054.77	353138.55	136.95						
A39	1/2	3011+24.77	51.47	RT	311055.71	353159.51	137.49	385.75	3010+54.62	427.81	RT	310670.02	353166.28
A40	3/4	3011+45.06	56.83	RT	311055.50	353180.50	138.02						
A41	PT	3011+66.32	63.17	RT	311054.16	353201.44	138.50						
A42	PI	3011+75.00	65.67	RT	311053.42	353209.54	138.66						
A43	PI	3012+00.00	72.13	RT	311051.32	353232.50	139.08						
A44	PC	3012+22.13	76.97	RT	311049.50	353252.39	139.41						
A45	1/4	3012+29.95	78.91	RT	311048.44	353259.38	140.00						
A46	1/2	3012+36.56	81.60	RT	311046.56	353266.21	139.55	60.00	3012+04.75	135.24	RT	310989.75	353246.92
A47	3/4	3012+42.75	85.04	RT	311043.90	353272.76	140.19						
A48	PCC	3012+48.48	89.18	RT	311040.48	353278.96	139.57						
	PCC	3012+48.48	89.18	RT	311040.48	353278.96	139.57						
A49	1/4	3012+59.37	99.52	RT	311031.53	353291.02	139.52						
A50	1/2	3012+68.59	111.38	RT	311020.87	353301.60	139.48	100.00	3011+68.11	164.31	RT	310955.93	353225.56
A51	3/4	3012+75.68	123.94	RT	311009.26	353310.15	139.45						
A52	PCC	3012+81.88	140.87	RT	310993.20	353318.35	139.46						
	PCC	3012+81.88	140.87	RT	310993.20	353318.35	139.46						
A53	1/4	3012+86.89	164.00	RT	310970.84	353326.12	139.60						
A54	1/2	3012+89.70	187.50	RT	310947.86	353331.75	139.93	250.00	3010+31.93	187.03	RT	310900.02	353086.36
A55	3/4	3012+90.27	211.16	RT	310924.44	353335.17	140.46						
A56	PT	3012+88.60	234.77	RT	310900.80	353336.36	140.84						
A57	PI	3012+75.00	304.33	RT	310830.11	353331.27	142.46						
A58	PI	3012+73.25	313.28	RT	310821.01	353330.61	142.65						
A59	PI	3012+68.03	357.30	RT	310776.69	353330.75	143.49						

SHEET NO.	TOTAL SHEETS
G207	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_G207_GRADING.DWG | DATE/TIME | 4/5/2022 6:01 PM | LAYOUT | G207 | DESIGNED | - | CHECKED | - | DRAFTED | -

CURB LAYOUT TABLE

SCOOTER AVENUE WEST APPROACH NORTH CURB LINE

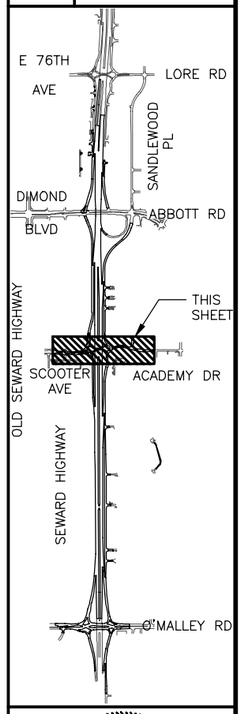
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
B1	PI	3006+58.64	35.53	LT	311112.87	352683.39	125.21						
B2	PI	3006+75.00	34.04	LT	311111.43	352699.76	125.68						
B3	PI	3007+00.00	31.77	LT	311109.24	352724.77	126.39						
B4	PI	3007+25.00	29.50	LT	311107.04	352749.77	127.11						
B5	PC	3007+27.54	29.27	LT	311106.82	352752.31	127.19						
B6	1/4	3007+34.19	29.22	LT	311106.79	352758.96	127.31						
B7	1/2	3007+40.75	30.28	LT	311107.86	352765.52	127.45	40.00	3007+31.15	69.11	LT	311146.66	352755.81
B8	3/4	3007+47.05	32.40	LT	311110.00	352771.82	127.57						
B9	PT	3007+52.91	35.54	LT	311113.16	352777.67	127.65						
B10	PI	3007+54.99	36.89	LT	311114.52	352779.74	127.67						
B11	PI	3007+75.00	36.83	LT	311114.52	352799.75	128.17						
B12	PI	3008+00.00	36.76	LT	311114.52	352824.75	128.78						
B13	PC	3008+06.77	36.74	LT	311114.52	352831.53	128.95						
B14	1/4	3008+12.94	31.35	LT	311109.14	352837.71	129.21						
B15	1/2	3008+20.08	27.32	LT	311105.14	352844.86	129.47	40.00	3008+36.05	64	LT	311141.86	352860.72
B16	3/4	3008+27.89	24.84	LT	311102.68	352852.68	129.71						
B17	PT	3008+36.05	24.00	LT	311101.86	352860.84	130.00						
B18	PI	3008+50.00	24.00	LT	311101.90	352874.79	130.37						
B19	PI	3008+75.00	24.00	LT	311101.98	352899.79	131.05						
B20	PI	3009+00.00	24.00	LT	311102.05	352924.79	131.72						
B21	PI	3009+25.00	24.00	LT	311102.12	352949.79	132.46						
B22	PC	3009+48.37	24.00	LT	311102.19	352973.16	133.15						
B23	1/4	3009+63.33	24.08	LT	311102.41	352987.63	133.58						
B24	1/2	3009+78.54	24.09	LT	311102.98	353002.09	134.02	596.00	3011+00.47	617.54	LT	311698.19	352971.40
B25	3/4	3009+93.74	24.01	LT	311103.90	353016.53	134.43						
B26	PT	3010+08.94	23.84	LT	311105.17	353030.95	134.83						
B27	PI	3010+25.00	22.52	LT	311105.86	353046.30	135.28						
B28	PC	3010+50.18	19.44	LT	311106.95	353070.59	136.00						
B29	1/4	3010+59.24	19.15	LT	311108.46	353079.18	136.24						
B30	1/2	3010+68.30	18.84	LT	311110.09	353087.75	136.48	599.50	3011+00.47	617.54	LT	311698.19	352971.40
B31	3/4	3010+77.29	18.49	LT	311111.84	353096.29	136.71						
B32	PCC	3010+86.01	18.22	LT	311113.72	353104.80	136.94						
	PCC	3010+86.01	18.22	LT	311113.72	353104.80	136.94						
B33	1/4	3011+08.17	19.05	LT	311119.98	353126.08	137.47						
B34	1/2	3011+30.07	22.60	LT	311128.81	353146.43	137.93	180.00	3010+90.35	198.16	LT	311289.21	353064.75
B35	3/4	3011+51.36	28.82	LT	311140.07	353165.54	138.33						
B36	PCC	3011+70.68	37.85	LT	311153.60	353183.11	138.75						
	PCC	3011+70.68	37.85	LT	311153.60	353183.11	138.75						
B37	1/4	3011+77.72	42.75	LT	311159.98	353189.41	138.90						
B38	1/2	3011+83.88	48.78	LT	311167.24	353194.69	139.01	60.00	3011+44.60	91.13	LT	311198.80	353143.66
B39	3/4	3011+89.02	55.79	LT	311175.19	353198.82	139.06						
B40	PT	3011+93.05	63.59	LT	311183.68	353201.72	139.11						
B41	PC	3012+17.13	126.37	LT	311250.14	353219.03	139.31						
B42	1/4	3012+20.82	137.85	LT	311262.14	353221.88	139.38						
B43	1/2	3012+23.99	149.54	LT	311274.25	353224.21	139.43	285.75	3009+18.37	244.06	LT	311322.17	352942.51
B44	3/4	3012+26.67	161.40	LT	311286.45	353226.02	139.58						
B45	PT	3012+28.86	173.41	LT	311298.72	353227.30	139.68						
B46	PI	3012+30.72	203.28	LT	311328.66	353226.00	139.82						
B47	PC	3012+36.61	231.83	LT	311357.70	353228.39	139.86						
B48	1/4	3012+41.10	251.64	LT	311377.91	353230.45	139.82						
B49	1/2	3012+46.36	271.26	LT	311398.02	353233.31	139.76	518.00	3017+59.70	133.25	LT	311315.19	353744.64
B50	3/4	3012+52.39	290.66	LT	311418.01	353236.95	139.65						
B51	PT	3012+59.17	309.80	LT	311437.83	353241.37	139.23						
B52	PI	3012+75.00	351.84	LT	311481.48	353252.01	138.46						
B53	PI	3013+06.83	436.38	LT	311569.24	353273.39	138.58						

SHEET NO.	TOTAL SHEETS
G208	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

DRAFTED | - | CHECKED | - | DESIGNED | - | LAYOUT | G208 | DATE/TIME | 4/5/2022 6:01 PM |
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CURB LAYOUT TABLE

SCOOTER AVENUE BETWEEN ROUNDABOUTS SOUTH CURB LINE

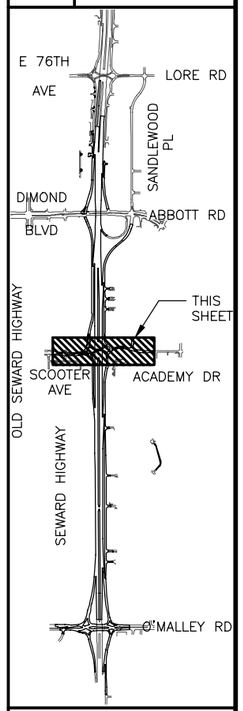
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
C1	PI	3012+91.87	360.12	RT	310776.76	353354.75	143.01						
C2	PI	3013+00.00	291.50	RT	310845.86	353354.53	141.7						
C3	PC	3013+10.19	205.54	RT	310932.42	353354.26	140.76						
C4	1/4	3013+11.54	186.10	RT	310951.88	353353.26	140.65						
C5	1/2	3013+10.99	166.63	RT	310971.15	353350.36	140.49	200.00	3010+89.21	170.28	RT	310931.80	353154.27
C6	3/4	3013+08.54	147.29	RT	310990.04	353345.60	140.38						
C7	PCC	3013+04.23	128.29	RT	311008.39	353339.02	140.36						
	PCC	3013+04.23	128.29	RT	311008.39	353339.02	140.36						
C8	1/8	3013+01.75	120.60	RT	311015.73	353335.62	140.36						
C9	1/4	3012+98.65	113.13	RT	311022.77	353331.65	140.37						
C10	3/8	3012+94.96	105.93	RT	311029.46	353327.11	140.38						
C11	1/2	3012+90.70	99.06	RT	311035.77	353322.05	140.39	100.00	3012+00.06	154.58	RT	310970.09	353246.64
C12	5/8	3012+85.90	92.57	RT	311041.64	353316.51	140.39						
C13	3/4	3012+80.58	86.46	RT	311047.06	353310.49	140.32						
C14	7/8	3012+74.79	80.81	RT	311051.96	353304.06	140.23						
C15	PCC	3012+68.57	75.65	RT	311056.34	353297.26	140.13						
	PCC	3012+68.57	75.65	RT	311056.34	353297.26	140.13						
C16	1/2	3012+67.19	71.24	RT	311060.54	353295.36	140.14	4.00	3012+70.99	72.47	RT	311059.79	353299.28
C17	PCC	3012+70.84	68.47	RT	311063.74	353298.65	140.23						
	PCC	3012+70.84	68.47	RT	311063.74	353298.65	140.23						
C18	1/4	3012+81.71	67.34	RT	311066.17	353309.31	140.34						
C19	1/2	3012+92.27	64.63	RT	311070.14	353319.45	140.45	73.50	3012+68.71	5.00	LT	311136.41	353287.66
C20	3/4	3013+02.30	60.38	RT	311075.57	353328.90	140.56						
C21	PCC	3013+11.60	54.69	RT	311082.34	353337.44	140.68						
	PCC	3013+11.60	54.69	RT	311082.34	353337.44	140.68						
C22	1/8	3013+23.94	46.54	RT	311091.92	353348.71	140.90						
C23	1/4	3013+36.87	39.37	RT	311100.60	353360.68	141.12						
C24	3/8	3013+50.33	33.22	RT	311108.33	353373.30	141.34						
C25	1/2	3013+64.22	28.14	RT	311115.05	353386.48	141.55	190.00	3014+22.46	209.00	RT	310942.55	353466.13
C26	5/8	3013+78.47	24.16	RT	311120.72	353400.14	141.79						
C27	3/4	3013+92.98	21.30	RT	311125.32	353414.20	142.02						
C28	7/8	3014+07.68	19.58	RT	311128.80	353428.57	142.26						
C29	PT	3014+22.46	19.00	RT	311131.16	353443.18	142.48						
C30	PI	3014+25.00	19.00	RT	311131.47	353445.70	142.52						
C31	PC	3014+49.77	19.00	RT	311134.46	353470.29	142.88						
C32	1/8	3014+62.92	19.49	RT	311135.38	353483.00	143.04						
C33	1/4	3014+76.03	20.94	RT	311135.04	353495.74	143.20						
C34	3/8	3014+89.02	23.36	RT	311133.47	353508.39	143.39						
C35	1/2	3015+01.32	26.84	RT	311130.66	353520.82	143.59	130.00	3014+49.77	149.00	RT	311005.41	353485.99
C36	5/8	3015+13.18	31.51	RT	311126.64	353532.92	143.79						
C37	3/4	3015+24.52	37.31	RT	311121.47	353544.57	143.99						
C38	7/8	3015+35.25	44.20	RT	311115.17	353555.65	144.20						
C39	PCC	3015+45.25	52.11	RT	311107.82	353566.06	144.40						
	PCC	3015+45.25	52.11	RT	311107.82	353566.06	144.40						
C40	1/4	3015+55.84	59.81	RT	311100.71	353577.06	144.55						
C41	1/2	3015+67.64	65.51	RT	311095.66	353589.15	144.72	73.50	3015+93.60	3.25	LT	311165.73	353611.34
C42	3/4	3015+80.25	69.03	RT	311092.83	353601.94	144.91						
C43	PCC	3015+93.30	70.25	RT	311092.32	353615.03	145.13						
	PCC	3015+93.30	70.25	RT	311092.32	353615.03	145.13						
C44	1/2	3015+95.11	71.42	RT	311091.25	353616.90	145.14	2.00	3015+93.29	72.25	RT	311090.32	353615.13
C45	PCC	3015+94.80	73.54	RT	311089.11	353616.71	145.15						
	PCC	3015+94.80	73.54	RT	311089.11	353616.71	145.15						
C46	1/4	3015+82.60	90.87	RT	311071.15	353605.47	144.89						
C47	1/2	3015+73.77	110.14	RT	311051.43	353597.71	144.68	115.00	3016+71.23	150.24	RT	311019.34	353708.14
C48	3/4	3015+68.63	130.70	RT	311030.61	353593.69	144.48						
C49	PT	3015+67.35	151.86	RT	311009.42	353593.57	144.29						
C50	PI	3015+65.97	233.70	RT	310927.62	353596.63	144.33						
C51	PI	3015+66.16	243.12	RT	310918.23	353597.34	144.34						

SHEET NO.	TOTAL SHEETS
G209	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_G209_GRADING.DWG | DATE/TIME | 4/5/2022 6:01 PM | LAYOUT | G209 | DESIGNED | - | CHECKED | - | DRAFTED | -

CURB LAYOUT TABLE

SCOOTER AVENUE BETWEEN ROUNDABOUTS NORTH CURB LINE

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
D1	PI	3013+36.78	425.12	LT	311561.68	353304.49	137.99						
D2	PC	3013+25.96	396.38	LT	311531.84	353297.21	141.38						
D3	1/4	3013+15.81	366.09	LT	311500.55	353290.80	137.31						
D4	1/2	3013+07.92	335.13	LT	311468.87	353286.70	137.14	434.00	3017+61.12	250.01	LT	311429.09	353718.88
D5	3/4	3013+02.32	303.68	LT	311436.97	353284.95	141.04						
D6	PT	3012+99.06	271.91	LT	311405.03	353285.54	140.99						
D7	PI	3012+92.83	177.14	LT	311310.20	353290.81	140.91						
D8	PC	3012+85.56	127.51	LT	311260.06	353289.58	139.93						
D9	1/4	3012+83.97	115.36	LT	311247.81	353289.47	140.09						
D10	1/2	3012+80.83	103.52	LT	311235.67	353287.79	140.21	95.00	3011+98.03	134.81	LT	311254.79	353194.73
D11	3/4	3012+76.19	92.18	LT	311223.86	353284.55	140.23						
D12	PCC	3012+70.13	81.53	LT	311212.56	353279.83	140.18						
	PCC	3012+70.13	81.53	LT	311212.56	353279.83	140.18						
D13	1/2	3012+70.02	79.52	LT	311210.55	353279.96	140.13	2.00	3012+71.80	80.43	LT	311211.67	353281.62
D14	PCC	3012+71.72	78.44	LT	311209.67	353281.78	140.23						
	PCC	3012+71.72	78.44	LT	311209.67	353281.78	140.23						
D15	1/2	3012+76.02	78.13	LT	311209.89	353286.08	140.28	73.50	3012+68.71	5.00	LT	311136.41	353287.66
D16	PCC	3012+80.29	77.58	LT	311209.86	353290.39	140.32						
	PCC	3012+80.29	77.58	LT	311209.86	353290.39	140.32						
D17	1/4	3012+91.47	74.89	LT	311208.53	353301.81	140.44						
D18	1/2	3013+02.09	70.48	LT	311205.44	353312.89	140.56	73.50	3012+68.71	5.00	LT	311136.41	353287.66
D19	3/4	3013+11.90	64.47	LT	311200.67	353323.35	140.66						
D20	PCC	3013+20.65	57.01	LT	311194.31	353332.93	140.76						
	PCC	3013+20.65	57.01	LT	311194.31	353332.93	140.76						
D21	1/8	3013+30.10	48.46	LT	311186.96	353343.35	140.88						
D22	1/4	3013+40.34	40.87	LT	311180.67	353354.43	141.04						
D23	3/8	3013+51.27	34.32	LT	311175.49	353366.08	141.22						
D24	1/2	3013+62.80	28.88	LT	311171.48	353378.17	141.44	130.00	3014+12.50	149.00	LT	311296.73	353413.00
D25	5/8	3013+74.80	24.59	LT	311168.67	353390.60	141.67						
D26	3/4	3013+87.16	21.49	LT	311167.09	353403.25	141.92						
D27	7/8	3013+99.77	19.62	LT	311166.76	353415.99	142.15						
D28	PT	3014+12.50	19.00	LT	311167.68	353428.71	142.34						
D29	PI	3014+25.00	19.00	LT	311169.19	353441.11	142.52						
D30	PC	3014+39.81	19.00	LT	311170.98	353455.82	142.73						
D31	1/8	3014+54.45	19.59	LT	311173.33	353470.42	142.95						
D32	1/4	3014+68.62	21.60	LT	311176.82	353484.80	143.17						
D33	3/8	3014+82.46	25.05	LT	311181.41	353498.86	143.38						
D34	1/2	3014+96.09	29.96	LT	311187.09	353512.52	143.58	190.00	3014+39.81	209.00	LT	311359.59	353432.87
D35	5/8	3015+09.62	35.95	LT	311193.81	353525.70	143.78						
D36	3/4	3015+22.64	42.97	LT	311201.53	353538.31	143.99						
D37	7/8	3015+35.07	50.99	LT	311210.21	353550.29	144.19						
D38	PCC	3015+46.84	59.95	LT	311219.80	353561.55	144.39						
	PCC	3015+46.84	59.95	LT	311219.80	353561.55	144.39						
D39	1/4	3015+57.14	67.07	LT	311227.47	353571.45	144.56						
D40	1/2	3015+68.50	72.33	LT	311233.34	353582.51	144.73	73.50	3015+93.60	3.25	LT	311165.73	353611.34
D41	3/4	3015+79.68	75.42	LT	311237.03	353593.51	144.91						
D42	PCC	3015+91.21	76.71	LT	311238.95	353604.95	145.10						
	PCC	3015+91.21	76.71	LT	311238.95	353604.95	145.10						
D43	1/2	3015+95.65	79.75	LT	311242.23	353609.22	145.13	5.00	3015+91.05	81.71	LT	311243.93	353604.52
D44	PCC	3015+94.76	85.06	LT	311247.48	353608.04	145.00						
	PCC	3015+94.76	85.06	LT	311247.48	353608.04	145.00						
D45	1/4	3015+71.07	117.20	LT	311278.28	353582.64	144.29						
D46	1/2	3015+54.16	153.37	LT	311313.48	353563.79	144.12	202.00	3017+82.88	205.42	LT	311390.78	353750.41
D47	3/4	3015+44.73	191.99	LT	311351.53	353552.26	144.49						
D48	PI	3015+42.73	217.90	LT	311377.29	353548.86	144.85						

SHEET NO.	TOTAL SHEETS
G210	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
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NO.	REVISION
DATE	
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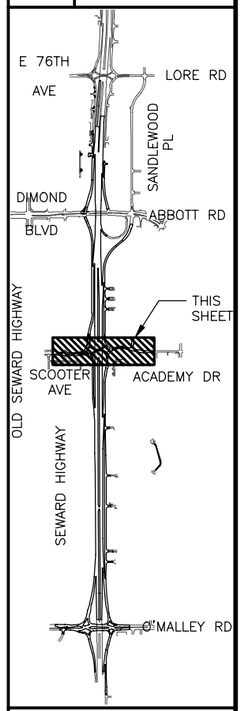

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APRIL 2022
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BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_G210_GRADING.DWG | DATE/TIME | 4/5/2022 6:02 PM | LAYOUT | G210 | DESIGNED | - | CHECKED | - | DRAFTED | -

CURB LAYOUT TABLE

ACADEMY DRIVE EAST APPROACH SOUTH CURB LINE

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
E1	PI	3015+98.16	242.84	RT	310920.25	353629.27	145.72						
E2	PI	3015+97.95	232.68	RT	310930.38	353628.52	145.53						
E3	PI	3015+96.60	190.38	RT	310972.55	353624.86	144.68						
E4	PC	3015+91.65	160.79	RT	311001.83	353618.31	144.16						
E5	1/4	3015+92.79	143.96	RT	311018.70	353618.53	144.00						
E6	1/2	3015+97.23	127.68	RT	311035.19	353622.08	144.03	85.00	3016+66.18	159.71	RT	311009.16	353703.00
E7	3/4	3016+04.80	112.60	RT	311050.66	353628.82	144.29						
E8	PT	3016+15.19	99.31	RT	311064.49	353638.47	144.85						
E9	PI	3016+25.00	89.06	RT	311075.26	353647.71	145.31						
E10	PI	3016+50.00	60.97	RT	311105.29	353673.46	146.25						
E11	PC	3016+66.20	44.37	RT	311123.67	353689.22	146.72						
E12	1/4	3016+71.38	39.83	RT	311128.86	353694.15	146.84						
E13	1/2	3016+77.02	35.94	RT	311133.51	353699.58	146.95	70.00	3017+06.92	97.57	RT	311078.11	353742.36
E14	3/4	3016+83.08	32.74	RT	311137.59	353705.46	147.05						
E15	PCC	3016+89.46	30.29	RT	311141.05	353711.73	147.12						
	PCC	3016+89.46	30.29	RT	311141.05	353711.73	147.12						
E16	1/4	3017+07.41	25.39	RT	311149.11	353729.38	147.20						
E17	1/2	3017+25.79	21.99	RT	311156.31	353747.40	147.32	400.00	3019+85.13	417.74	RT	310781.38	353886.77
E18	3/4	3017+44.77	20.04	RT	311162.63	353765.75	147.48						
E19	PT	3017+64.15	19.10	RT	311168.05	353784.38	147.68						
E20	PI	3017+75.00	20.02	RT	311169.68	353795.15	147.82						
E21	PC	3017+94.17	21.59	RT	311172.50	353813.85	148.18						
E22	1/4	3018+40.55	22.35	RT	311178.39	353856.90	149.30						
E23	1/2	3018+87.00	22.38	RT	311179.28	353900.34	150.66	376.00	3019+78.78	396.50	RT	310803.54	353886.28
E24	3/4	3019+33.40	21.66	RT	311175.15	353943.59	152.14						
E25	PT	3019+78.78	20.50	RT	311166.05	353986.08	153.91						
E26	PI	3020+00.00	20.50	RT	311160.42	354006.54	154.68						
E27	PI	3020+25.00	20.50	RT	311153.78	354030.64	155.56						
E28	PI	3020+50.00	20.50	RT	311147.15	354054.75	156.40						
E29	PI	3020+75.00	20.50	RT	311140.51	354078.85	157.21						
E30	PI	3021+00.00	20.50	RT	311133.88	354102.95	157.98						
E31	PI	3021+25.00	20.50	RT	311127.24	354127.06	158.72						
E32	PC	3021+38.64	20.50	RT	311123.62	354140.22	159.11						
E33	1/4	3021+79.37	20.53	RT	311113.82	354181.18	160.21						
E34	1/2	3022+20.10	20.55	RT	311106.83	354222.71	160.98	620.50	3023+01.37	599.90	LT	311721.86	354304.91
E35	3/4	3022+60.83	20.58	RT	311102.67	354264.63	161.76						
E36	PT	3023+01.58	20.60	RT	311101.36	354306.72	162.17						
E37	PI	3023+25.00	20.60	RT	311101.43	354330.14	162.35						
E38	PI	3023+50.00	20.59	RT	311101.51	354355.14	162.54						
E39	PT	3023+60.00	20.58	RT	311101.54	354365.14	162.61						
E40	PI	3023+75.00	20.00	RT	311102.16	354380.14	162.73						
E41	PI	3024+00.00	19.03	RT	311103.19	354405.14	162.96						
E42	PI	3024+25.00	18.06	RT	311104.22	354430.14	163.46						
E43	PI	3024+50.00	17.09	RT	311105.26	354455.13	163.95						
E44	PI	3024+75.00	16.13	RT	311106.29	354480.13	164.50						
E45	PI	3024+80.00	15.93	RT	311106.50	354485.13	164.61						

SHEET NO.	TOTAL SHEETS
G211	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
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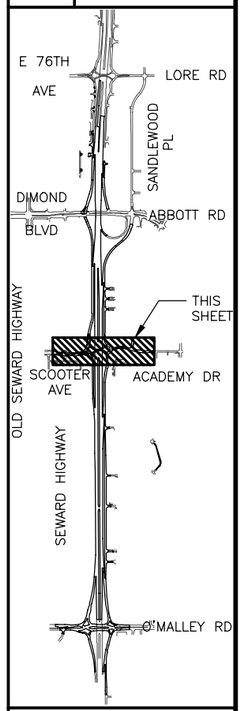
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763321\00012_G211_GRADING.DWG | DATE/TIME | 4/5/2022 6:02 PM | LAYOUT | G211 | DESIGNED | - | CHECKED | - | DRAFTED | -

CURB LAYOUT TABLE

ACADEMY DRIVE EAST APPROACH NORTH CURB LINE

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
F1	PI	3015+70.66	218.24	LT	311379.16	353576.73	144.29						
F2	PI	3015+73.22	200.44	LT	311361.52	353580.25	143.97						
F3	PC	3015+78.05	177.90	LT	311339.28	353586.30	143.62						
F4	1/4	3015+84.63	157.51	LT	311319.27	353593.98	143.52						
F5	1/2	3015+93.70	138.08	LT	311300.37	353604.09	143.70	172.00	3017+82.88	205.42	LT	311390.78	353750.41
F6	3/4	3016+05.10	119.94	LT	311282.87	353616.47	144.26						
F7	PT	3016+18.68	103.36	LT	311267.05	353630.93	145.04						
F8	PC	3016+68.29	52.57	LT	311220.15	353679.50	146.63						
F9	1/4	3016+83.69	38.52	LT	311208.16	353695.51	146.95						
F10	1/2	3017+01.67	27.96	LT	311200.52	353713.99	147.28	80.00	3017+41.68	84.00	LT	311277.69	353735.08
F11	3/4	3017+21.36	21.35	LT	311197.70	353733.79	147.68						
F12	PT	3017+41.68	19.00	LT	311199.88	353753.67	148.15						
F13	PI	3017+50.00	19.00	LT	311201.82	353761.76	148.36						
F14	PI	3017+75.00	19.00	LT	311207.63	353786.08	149.05						
F15	PI	3017+95.49	19.06	LT	311212.47	353806.35	149.72						
F16	PI	3018+00.00	19.63	LT	311214.02	353810.88	149.90						
F17	PC	3018+23.42	23.63	LT	311222.16	353834.72	150.87						
F18	1/4	3018+53.68	23.97	LT	311225.50	353866.85	151.87						
F19	1/2	3018+83.94	23.66	LT	311225.41	353899.16	152.74	304.00	3018+54.46	280.03	RT	310921.88	353882.14
F20	3/4	3019+14.23	22.72	LT	311221.89	353931.27	153.60						
F21	PT	3019+44.61	21.14	LT	311214.98	353962.83	154.20						
F22	PI	3019+50.00	20.85	LT	311213.46	353968.35	154.31						
F23	PI	3019+75.00	20.50	LT	311206.58	353993.32	154.85						
F24	PI	3020+00.00	20.50	LT	311199.95	354017.42	155.36						
F25	PI	3020+25.00	20.50	LT	311193.31	354041.52	155.84						
F26	PC	3020+38.28	20.50	LT	311189.79	354054.33	156.08						
F27	1/4	3020+44.59	21.76	LT	311189.32	354060.75	156.21						
F28	1/2	3020+49.95	25.34	LT	311191.35	354066.86	156.34	16.50	3020+38.28	37.00	LT	311205.70	354058.71
F29	3/4	3020+53.53	30.69	LT	311195.56	354071.73	156.45						
F30	PT	3020+54.78	37.00	LT	311201.32	354074.62	156.56						
F31	PC	3020+85.78	37.00	LT	311193.09	354104.50	156.88						
F32	1/4	3020+87.04	30.69	LT	311186.67	354104.04	156.88						
F33	1/2	3020+90.61	25.33	LT	311180.56	354106.07	156.93	16.50	3021+02.28	37.00	LT	311188.71	354120.41
F34	3/4	3020+95.97	21.76	LT	311175.69	354110.28	157.02						
F35	PT	3021+02.29	20.50	LT	311172.80	354116.04	157.11						
F36	PI	3021+25.00	20.50	LT	311166.77	354137.94	157.42						
F37	PC	3021+38.66	20.50	LT	311163.15	354151.10	157.59						
F38	1/4	3021+79.40	20.47	LT	311154.00	354189.36	158.08						
F39	1/2	3022+20.13	20.45	LT	311147.47	354228.14	158.85	579.50	323+01.37	599.90	LT	311721.86	354304.91
F40	3/4	3022+60.86	20.42	LT	311143.59	354267.29	159.63						
F41	PT	3023+01.57	20.40	LT	311142.36	354306.60	160.77						
F42	PI	3023+25.00	20.40	LT	311142.43	354330.04	161.48						
F43	PI	3023+50.00	20.41	LT	311142.51	354355.04	161.98						
F44	PT	3023+59.84	20.42	LT	311142.53	354364.88	162.17						
F45	PI	3023+75.00	19.86	LT	311142.01	354380.04	162.47						
F46	PI	3024+00.00	18.93	LT	311141.15	354405.04	162.96						
F47	PI	3024+25.00	18.01	LT	311140.29	354430.04	163.46						
F48	PI	3024+50.00	17.08	LT	311139.43	354455.04	163.95						
F49	PI	3024+75.00	16.16	LT	311138.57	354480.05	164.59						
F50	PI	3024+80.00	16.00	LT	311138.43	354485.05	164.72						

SHEET NO.	TOTAL SHEETS
G212	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

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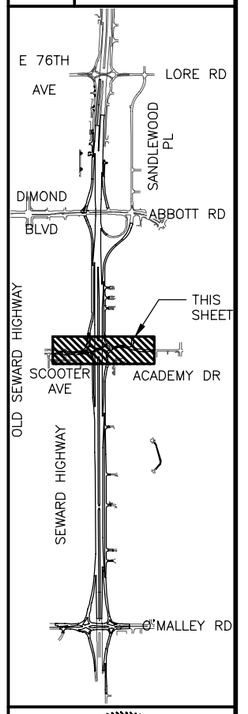

STATE OF ALASKA
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE C:_PW_WORKDIR\DEN001\RK053776\D08763332\000122_G212_GRADING.DWG | DATE/TIME 4/5/2022 6:02 PM | LAYOUT G212 | DESIGNED - | CHECKED - | DRAFTED -

CURB LAYOUT TABLE

SCOOTER AVENUE WEST APPROACH ISLAND

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
G1	PI	3005+65.65	8.00	RT	311069.07	352590.54	123.81						
G2	PI	3005+75.00	8.00	RT	311069.09	352599.89	123.97						
G3	PI	3005+75.98	8.00	RT	311069.10	352600.87	123.99						
G4	PI	3006+00.00	5.00	RT	311072.17	352624.88	124.44						
G5	PI	3006+25.00	1.87	LT	311075.37	352649.87	124.97						
G6	PI	3006+50.00	1.25	LT	311078.57	352674.86	125.55						
G7	PI	3006+61.98	2.75	LT	311080.10	352686.83	125.86						
G8	PI	3006+75.00	2.75	LT	311080.14	352699.85	126.20						
G9	PI	3007+00.00	2.75	LT	311080.21	352724.85	126.87						
G10	PI	3007+25.00	2.75	LT	311080.29	352749.85	127.54						
G11	PC	3007+31.47	2.75	LT	311080.30	352756.33	127.72						
G12	1/2	3007+34.10	5.37	LT	311082.94	352758.94	127.79	2.625	3007+31.47	5.38	LT	311082.93	352756.32
G13	PT	3007+31.47	8.00	LT	311085.55	352756.31	127.72						
G14	PI	3007+25.00	8.00	LT	311085.54	352749.84	127.54						
G15	PI	3007+00.00	8.00	LT	311085.46	352724.84	126.87						
G16	PI	3006+75.00	8.00	LT	311085.39	352699.84	126.20						
G17	PI	3006+61.65	8.00	LT	311085.35	352686.49	125.85						
G18	PI	3006+58.55	7.61	LT	311084.95	352683.39	125.77						

SHEET NO.	TOTAL SHEETS
G213	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
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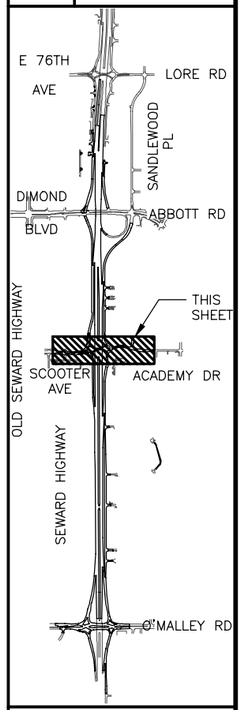

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763321\00012_G213_GRADING.DWG | DATE/TIME | 4/5/2022 6:02 PM | LAYOUT | G213 | DESIGNED | - | CHECKED | - | DRAFTED | -

CURB LAYOUT TABLE

SCOOTER AVENUE WEST APPROACH SPLITTER ISLAND

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
H1	PC	3008+31.48	2.75	RT	311075.1	352856.35	130.41						
H2	1/2	3008+28.85	5.37	RT	311072.47	352853.73	130.34	2.625	3008+31.48	5.38	RT	311072.47	352856.35
H3	PT	3008+31.48	8.00	RT	311069.85	352856.36	130.41						
H4	PI	3008+50.00	8.00	RT	311069.9	352874.88	130.91						
H5	PI	3008+75.00	8.00	RT	311069.98	352899.88	131.58						
H6	PI	3009+00.00	8.00	RT	311070.05	352924.88	132.25						
H7	PI	3009+25.00	8.00	RT	311070.12	352949.88	132.93						
H8	PC	3009+35.54	8.00	RT	311070.16	352960.42	133.21						
H9	1/4	3009+66.03	7.23	RT	311071.19	352991.1	134.03						
H10	1/2	3009+96.30	6.13	RT	311074.1	353021.65	134.85	500.00	3009+35.54	492.00	LT	311570.15	352958.95
H11	3/4	3010+26.64	5.00	RT	311078.88	353051.97	135.66						
H12	PT	3010+57.05	3.86	RT	311085.51	353081.94	136.48						
H13	PI	3010+75.00	3.50	RT	311089.96	353099.47	136.96						
H14	PI	3011+00.00	3.50	RT	311096.11	353123.7	137.59						
H15	PI	3011+25.00	3.50	RT	311102.26	353147.94	138.16						
H16	PI	3011+50.00	3.50	RT	311108.41	353172.17	138.68						
H17	PC	3011+51.30	3.50	RT	311108.73	353173.42	138.71						
H18	1/4	3011+62.06	4.02	RT	311110.81	353183.94	138.91						
H19	1/2	3011+72.76	5.50	RT	311111.74	353194.63	139.11	100.00	3011+51.30	103.50	RT	311011.80	353198.02
H20	3/4	3011+83.33	7.93	RT	311111.53	353205.35	139.29						
H21	PCC	3011+91.91	10.63	RT	311110.49	353214.16	139.44						
	PCC	3011+91.91	10.63	RT	311110.49	353214.16	139.44						
H22	1/2	3011+93.87	10.31	RT	311111.16	353216	139.38	2.00	3011+92.60	8.75	RT	311112.47	353214.48
H23	PCC	3011+94.59	8.40	RT	311113.17	353216.35	139.38						
	PCC	3011+94.59	8.40	RT	311113.17	353216.35	139.38						
H24	1/2	3011+93.57	0.00	--	311121.25	353213.83	139.37	75.00	3012+68.02	8.17	LT	311139.47	353286.59
H25	PCC	3011+93.70	11.15	LT	311132.24	353211.94	139.37						
	PCC	3011+93.70	11.15	LT	311132.24	353211.94	139.37						
H26	1/2	3011+91.90	15.18	LT	311135.87	353209.39	139.34	4.50	3011+89.30	11.55	LT	311131.80	353207.46
H27	PCC	3011+87.60	15.70	LT	311135.55	353204.97	139.3						
	PCC	3011+87.60	15.70	LT	311135.55	353204.97	139.3						
H28	1/4	3011+79.80	12.66	LT	311130.99	353197.74	139.23						
H29	1/2	3011+67.61	8.99	LT	311124.75	353186.4	139.02	180.00	3011+28.74	184.54	LT	311285.45	353105.31
H30	3/4	3011+55.08	6.48	LT	311119.34	353174.65	138.78						
H31	PCC	3011+42.23	5.05	LT	311114.78	353162.54	138.52						
	PCC	3011+42.23	5.05	LT	311114.78	353162.54	138.52						
H32	1/4	3011+32.19	4.38	LT	311111.67	353152.97	138.32						
H33	1/2	3011+22.14	3.91	LT	311108.74	353143.34	138.1	550.32	3011+00.99	553.82	LT	311636.55	352987.58
H34	3/4	3011+12.08	3.61	LT	311105.98	353133.67	137.87						
H35	PT	3011+02.02	3.50	LT	311103.39	353123.94	137.64						
H36	PC	3011+00.96	3.50	LT	311103.13	353122.92	137.61						
H37	1/4	3010+72.77	4.21	LT	311096.91	353095.43	136.9						
H38	1/2	3010+44.33	5.40	LT	311092.09	353067.67	136.14	550.00	3011+00.96	553.50	LT	311636.24	352987.63
H39	3/4	3010+15.83	6.43	LT	311088.71	353039.69	135.37						
H40	PT	3009+87.27	7.30	LT	311086.76	353011.58	134.6						
H41	PI	3009+75.00	6.41	LT	311085.16	352999.55	134.27						
H42	PI	3009+50.00	3.67	LT	311081.87	352974.85	133.6						
H43	PI	3009+25.00	0.42	LT	311078.54	352949.86	132.93						
H44	PI	3009+00.69	2.75	RT	311075.3	352925.55	132.27						
H45	PI	3008+75.00	2.75	RT	311075.23	352899.87	131.58						
H46	PI	3008+50.00	2.75	RT	311075.15	352874.87	130.91						

SHEET NO.	TOTAL SHEETS
G214	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
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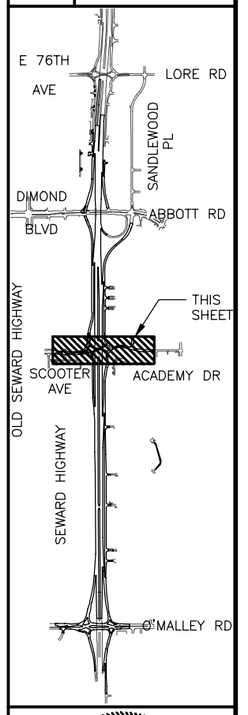

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O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

DATE/TIME | 4/5/2022 6:02 PM | LAYOUT | G214 | DESIGNED | - | CHECKED | - | DRAFTED | -
FILE | C:_PW_WORKDIR\DEN001\RK053776\D08763332\000122_G214_GRADING.DWG

CURB LAYOUT TABLE

SCOOTER AVENUE WEST APPROACH RIGHT TURN BYPASS MEDIAN

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
J1	PC	3010+85.90	18.00	RT	311078.59	353113.61	136.95						
J2	1/2	3010+79.91	23.63	RT	311071.66	353109.19	136.69	6.00	3010+85.90	24.00	RT	311072.78	353115.08
J3	PCC	3010+85.17	29.96	RT	311066.82	353115.84	136.70						
	PCC	3010+85.17	29.96	RT	311066.82	353115.84	136.70						
J4	1/4	3011+06.70	33.19	RT	311068.98	353137.50	137.24						
J5	1/2	3011+28.02	37.60	RT	311069.95	353159.25	137.78	400.00	3010+54.62	427.81	RT	310670.02	353166.28
J6	3/4	3011+49.06	43.15	RT	311069.75	353181.01	138.30						
J7	PT	3011+71.20	49.62	RT	311068.35	353202.74	138.78						
J8	PI	3011+75.00	50.73	RT	311068.02	353206.38	138.86						
J9	PI	3012+00.00	57.37	RT	311065.86	353229.97	139.30						
J10	PC	3012+23.97	62.72	RT	311063.83	353252.11	139.62						
J11	1/2	3012+26.36	61.83	RT	311065.00	353254.11	139.66	2.00	3012+24.47	60.77	RT	311065.83	353252.29
J12	PT	3012+26.20	59.51	RT	311067.27	353253.67	139.69						
J13	PI	3012+25.00	58.18	RT	311068.46	353252.43	139.68						
J14	PC	3012+17.72	49.87	RT	311075.79	353244.74	139.63						
J15	1/2	3012+14.99	47.06	RT	311078.21	353241.85	139.60	30.00	3011+32.41	127.50	RT	310983.90	353185.62
J16	PCC	3012+11.70	44.40	RT	311080.38	353238.45	139.56						
	PCC	3012+11.70	44.40	RT	311080.38	353238.45	139.56						
J17	1/4	3011+98.08	35.81	RT	311086.79	353224.51	139.36						
J18	1/2	3011+83.68	28.74	RT	311091.20	353209.81	139.04	110.00	3011+37.63	100.50	RT	311011.35	353184.04
J19	3/4	3011+68.69	23.28	RT	311093.53	353194.64	138.74						
J20	PCC	3011+53.30	19.50	RT	311093.71	353179.30	138.43						
	PCC	3011+53.30	19.50	RT	311093.71	353179.30	138.43						
J21	1/4	3011+49.41	18.84	RT	311093.39	353175.37	138.36						
J22	1/2	3011+45.50	18.38	RT	311092.89	353171.47	138.29	82.50	3012+04.93	53.01	LT	311175.51	353216.39
J23	3/4	3011+41.57	18.09	RT	311092.19	353167.59	138.22						
J24	PT	3011+37.63	18.00	RT	311091.32	353163.75	138.14						
J25	PI	3011+25.00	18.00	RT	311088.21	353151.50	137.87						
J26	PI	3011+00.00	18.00	RT	311082.06	353127.27	137.30						

CURB LAYOUT TABLE

RAMP "SA–R" APPROACH RIGHT TURN BYPASS MEIAN

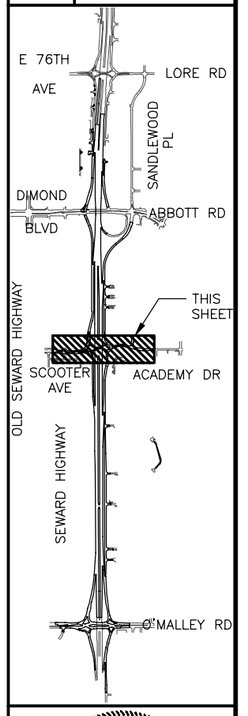
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
K1	PC	3012+03.25	53.83	LT	311176.01	353214.45	139.38						
K2	1/2	3012+03.72	51.50	LT	311173.81	353215.34	139.40	2.00	3012+04.93	53.01	LT	311175.51	353216.39
K3	PT	3012+05.90	51.31	LT	311174.01	353217.71	139.44						
K4	PC	3012+25.00	64.87	LT	311190.47	353236.45	139.70						
K5	1/4	3012+42.94	80.76	LT	311208.51	353252.93	139.82						
K6	1/2	3012+57.44	100.25	LT	311229.61	353264.96	139.68	110.00	3011+76.62	158.80	LT	311273.22	353163.98
K7	3/4	3012+67.30	122.45	LT	311252.83	353272.07	139.50						
K8	PT	3012+72.05	146.27	LT	311277.06	353273.91	139.32						
K9	PI	3012+75.00	180.40	LT	311311.29	353272.71	139.06						
K10	PC	3012+83.79	282.18	LT	311413.38	353269.15	138.30						
K11	1/4	3012+84.73	291.80	LT	311423.04	353268.92	138.24						
K12	1/2	3012+85.87	301.40	LT	311432.71	353268.89	138.19	450.00	3017+61.12	250.01	LT	311429.09	353718.88
K13	3/4	3012+87.22	310.97	LT	311442.38	353269.07	138.15						
K14	PCC	3012+88.77	320.51	LT	311452.03	353269.46	138.12						
	PCC	3012+88.77	320.51	LT	311452.03	353269.46	138.12						
K15	1/2	3012+85.88	325.05	LT	311456.20	353266.04	138.26	4.00	3012+84.83	321.19	LT	311452.24	353265.47
K16	PT	3012+81.09	322.60	LT	311453.19	353261.58	138.35						
K17	PC	3012+78.60	316.00	LT	311446.33	353259.91	138.43						
K18	1/4	3012+72.05	297.52	LT	311427.19	353255.64	138.67						
K19	1/2	3012+66.23	278.80	LT	311407.90	353252.13	138.90	500.00	3017+63.69	145.41	LT	311327.95	353745.69
K20	3/4	3012+61.15	259.86	LT	311388.49	353249.37	139.14						
K21	PT	3012+56.82	240.74	LT	311368.99	353247.38	139.37						
K22	PI	3012+50.00	207.64	LT	311335.31	353244.61	139.72						
K23	PC	3012+42.35	170.53	LT	311297.55	353241.50	139.89						
K24	1/4	3012+39.47	157.91	LT	311284.67	353240.16	139.89						
K25	1/2	3012+36.04	145.43	LT	311271.86	353238.26	139.86	300.00	3009+18.37	244.06	LT	311322.17	352942.51
K26	3/4	3012+32.07	133.10	LT	311259.15	353235.82	139.80						
K27	PT	3012+28.06	120.96	LT	311246.55	353232.82	139.74						
K28	PI	3012+25.00	111.87	LT	311237.06	353230.35	139.69						

SHEET NO.	TOTAL SHEETS
G215	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR GRADING TABLES

CURB LAYOUT TABLE

ROUNDABOUT CURB LINE

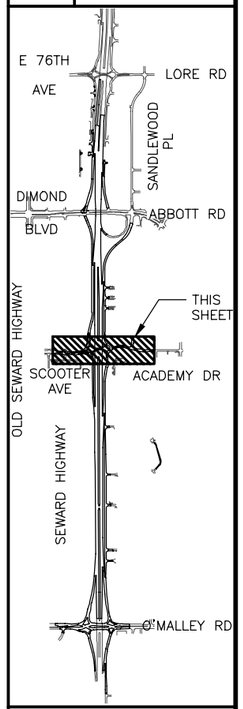
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
L1	PCC	3013+10.18	41.89	LT	311178.04	353324.37	141.15						
L2	1/16	3012+98.11	52.07	LT	311186.69	353311.16	140.98						
L3	1/8	3012+83.66	58.45	LT	311191.27	353296.04	140.77						
L4	3/16	3012+68.00	60.49	LT	311191.41	353280.25	140.55						
L5	1/4	3012+52.40	58.05	LT	311187.10	353265.06	140.34						
L6	5/16	3012+38.12	51.30	LT	311178.68	353251.70	140.12						
L7	3/8	3012+26.58	40.83	LT	311166.84	353241.25	139.96						
L8	7/16	3012+18.49	27.55	LT	311152.54	353234.56	139.85						
L9	1/2	3012+14.02	12.44	LT	311136.93	353232.16	139.78	55.50	3012+68.71	5.00	LT	311136.41	353287.66
L10	9/16	3012+13.89	4.16	RT	311120.49	353234.49	139.77						
L11	5/8	3012+18.85	20.04	RT	311105.47	353241.58	139.83						
L12	11/16	3012+27.61	32.46	RT	311094.28	353251.54	139.95						
L13	3/4	3012+39.27	42.05	RT	311086.15	353264.12	140.13						
L14	13/16	3012+53.72	48.44	RT	311081.55	353279.23	140.35						
L15	7/8	3012+69.37	50.50	RT	311081.40	353295.02	140.57						
L16	15/16	3012+85.15	48.01	RT	311085.78	353310.38	140.79						
L17	PCC	3012+99.26	41.34	RT	311094.11	353323.59	141.00						
	PCC	3012+99.26	41.34	RT	311094.11	353323.59	141.00						
L18	1/4	3013+27.22	25.69	RT	311113.01	353349.45	141.41						
L19	1/2	3013+57.15	14.28	RT	311127.96	353377.78	141.82	220.00	3014+20.37	225.00	RT	310926.42	353465.99
L20	3/4	3013+88.42	7.33	RT	311138.63	353407.99	142.28						
L21	PT	3014+20.37	5.00	RT	311144.81	353439.42	142.73						
L22	PI	3014+25.00	5.00	RT	311145.36	353444.01	142.80						
L23	PI	3014+50.00	5.00	RT	311148.38	353468.83	143.16						
L24	PC	3014+70.07	4.66	RT	311150.79	353488.59	143.44						
L25	1/4	3014+93.37	5.89	RT	311151.15	353511.75	143.78						
L26	1/2	3015+15.81	11.61	RT	311146.66	353534.47	144.10	110.00	3014+74.64	114.59	RT	311041.59	353501.88
L27	3/4	3015+36.55	21.91	RT	311137.50	353555.74	144.41						
L28	PCC	3015+54.68	36.32	RT	311124.10	353574.63	144.71						
	PCC	3015+54.68	36.32	RT	311124.10	353574.63	144.71						
L29	1/16	3015+67.40	45.68	RT	311115.45	353587.84	144.95						
L30	1/8	3015+82.25	51.08	RT	311110.86	353602.95	145.25						
L31	3/16	3015+98.01	52.08	RT	311110.72	353618.74	145.59						
L32	1/4	3016+13.41	48.60	RT	311115.04	353633.94	145.94						
L33	5/16	3016+27.19	40.92	RT	311123.46	353647.30	146.30						
L34	3/8	3016+37.75	29.77	RT	311135.30	353657.75	146.63						
L35	7/16	3016+45.26	16.03	RT	311149.60	353664.44	146.85						
L36	1/2	3016+48.97	0.70	RT	311165.21	353666.83	146.94	55.50	3015+93.60	3.25	LT	311165.73	353611.34
L37	9/16	3016+48.29	15.08	LT	311180.86	353664.73	146.91						
L38	5/8	3016+42.92	30.01	LT	311195.29	353658.31	146.76						
L39	11/16	3016+32.99	42.75	LT	311207.32	353648.08	146.47						
L40	3/4	3016+19.84	52.15	LT	311215.99	353634.88	146.12						
L41	13/16	3016+05.01	57.56	LT	311220.58	353619.77	145.76						
L42	7/8	3015+89.25	58.58	LT	311220.74	353603.98	145.41						
L43	15/16	3015+73.84	55.11	LT	311216.44	353588.78	145.07						
L44	PCC	3015+60.03	47.44	LT	311208.03	353575.41	144.80						
	PCC	3015+60.03	47.44	LT	311208.03	353575.41	144.80						
L45	1/4	3015+33.18	29.98	LT	311189.13	353549.55	144.36						
L46	1/2	3015+04.07	16.59	LT	311174.18	353521.21	143.93	220.00	3014+41.90	225.00	LT	311375.72	353433.00
L47	3/4	3014+73.54	7.80	LT	311163.51	353491.01	143.50						
L48	PT	3014+41.90	5.00	LT	311157.33	353459.58	143.04						
L49	PI	3014+25.00	5.00	LT	311155.29	353442.80	142.80						
L50	PI	3014+00.00	5.00	LT	311152.27	353417.99	142.44						
L51	PC	3013+92.36	5.00	LT	311151.35	353410.41	142.33						
L52	1/4	3013+69.33	7.44	LT	311150.99	353387.25	142.00						
L53	1/2	3013+47.32	14.64	LT	311155.48	353364.53	141.68	110.00	3013+92.36	115.00	LT	311260.54	353397.12
L54	3/4	3013+27.31	26.30	LT	311164.63	353343.25	141.40						
L1	PCC	3013+10.18	41.89	LT	311178.04	353324.37	141.15						

SHEET NO.	TOTAL SHEETS
G216	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_G216_GRADING.DWG | DATE/TIME | 4/5/2022 6:02 PM | LAYOUT | G216 | DESIGNED | - | CHECKED | - | DRAFTED | -

CURB LAYOUT TABLE

ROUNDABOUT INTERIOR CURB LINE

POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
M1	PC	3013+00.60	29.97	LT	311165.05	353316.30	141.57						
M2	1/16	3012+88.62	40.27	LT	311173.83	353303.16	141.33						
M3	1/8	3012+73.60	45.20	LT	311176.91	353287.66	141.04						
M4	3/16	3012+57.85	44.01	LT	311173.83	353272.16	140.74						
M5	1/4	3012+43.74	36.89	LT	311165.05	353259.02	140.45						
M6	5/16	3012+33.44	24.90	LT	311151.91	353250.24	140.26						
M7	3/8	3012+28.54	9.89	LT	311136.41	353247.16	140.16						
M8	7/16	3012+29.69	5.87	RT	311120.91	353250.24	140.16						
M9	1/2	3012+36.82	19.97	RT	311107.77	353259.02	140.29	40.50	3012+68.71	5.00	LT	311136.41	353287.66
M10	9/16	3012+48.81	30.27	RT	311098.99	353272.16	140.55						
M11	5/8	3012+63.82	35.21	RT	311095.91	353287.66	140.85						
M12	11/16	3012+79.58	34.02	RT	311098.99	353303.16	141.15						
M13	3/4	3012+93.68	26.89	RT	311107.77	353316.30	141.43						
M14	13/16	3013+03.98	14.91	RT	311120.91	353325.08	141.63						
M15	7/8	3013+08.92	0.11	LT	311136.41	353328.16	141.73						
M16	15/16	3013+07.73	15.86	LT	311151.91	353325.08	141.71						
M1	PC	3013+00.60	29.97	LT	311165.05	353316.30	141.57						

CURB LAYOUT TABLE

ROUNDABOUT INTERIOR CURB LINE

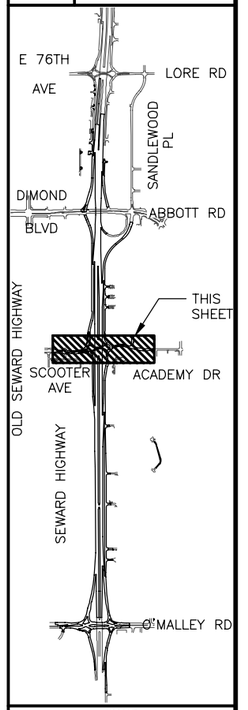
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
N1	PC	3015+53.16	5.45	LT	311165.73	353570.84	144.80						
N2	1/16	3015+55.40	10.19	RT	311150.23	353573.92	144.85						
N3	1/8	3015+63.45	23.79	RT	311137.09	353582.70	145.05						
N4	3/16	3015+76.09	33.27	RT	311128.31	353595.84	145.37						
N5	1/4	3015+91.40	37.19	RT	311125.23	353611.34	145.81						
N6	5/16	3016+07.04	34.96	RT	311128.31	353626.83	146.29						
N7	3/8	3016+20.64	26.91	RT	311137.09	353639.97	146.78						
N8	7/16	3016+30.04	14.27	RT	311150.23	353648.75	147.17						
N9	1/2	3016+34.05	1.00	LT	311165.73	353651.84	147.32	40.50	3015+93.60	3.25	LT	311165.73	353611.34
N10	9/16	3016+31.95	16.67	LT	311181.23	353648.75	147.24						
N11	5/8	3016+23.76	30.29	LT	311194.36	353639.97	146.93						
N12	11/16	3016+11.11	39.77	LT	311203.14	353626.83	146.44						
N13	3/4	3015+95.81	43.69	LT	311206.23	353611.34	145.95						
N14	13/16	3015+80.16	41.45	LT	311203.14	353595.84	145.48						
N15	7/8	3015+66.56	33.40	LT	311194.36	353582.70	145.11						
N16	15/16	3015+57.08	20.76	LT	311181.23	353573.92	144.88						
N1	PC	3015+53.16	5.45	LT	311165.73	353570.84	144.80						

SHEET NO.	TOTAL SHEETS
G217	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

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CURB LAYOUT TABLE

ACADEMY DRIVE EAST APPROACH SPLITTER ISLAND

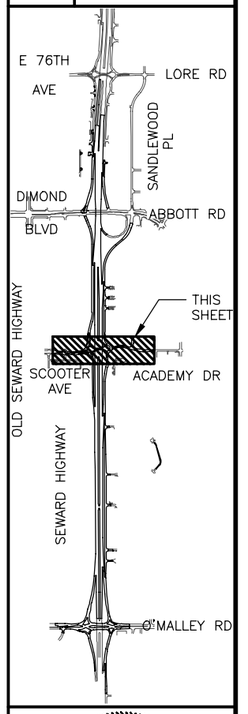
POINT	DESCRIPTION	STATION	OFFSET	DIRECTION	NORTHING	EASTING	ELEVATION	RADIUS	RADIUS POINT				
									STATION	OFFSET	DIRECTION	NORTHING	EASTING
P1	PCC	3016+85.92	14.57	LT	311184.81	353701.22	147.24						
P2	1/2	3016+83.96	14.30	LT	311184.25	353699.37	147.22	2.00	3016+85.19	12.70	LT	311182.85	353700.80
P3	PCC	3016+83.16	12.53	LT	311182.38	353698.86	147.24						
	PCC	3016+83.16	12.53	LT	311182.38	353698.86	147.24						
P4	1/2	3016+83.50	2.29	LT	311172.30	353700.71	147.29	89.00	3015+94.42	1.25	RT	311161.28	353612.40
P5	PCC	3016+82.67	7.92	RT	311162.09	353701.39	147.28						
	PCC	3016+82.67	7.92	RT	311162.09	353701.39	147.28						
P6	1/2	3016+83.99	11.79	RT	311158.46	353703.29	147.25	4.50	3016+87.07	8.55	RT	311162.13	353705.89
P7	PT	3016+87.83	12.99	RT	311157.87	353707.34	147.29						
P8	PI	3017+00.00	10.96	RT	311161.92	353719.25	147.42						
P9	PI	3017+25.00	7.61	RT	311170.17	353743.49	147.71						
P10	PC	3017+36.00	6.49	RT	311173.77	353754.07	147.87						
P11	1/4	3017+74.51	4.74	RT	311184.42	353791.12	148.52						
P12	1/2	3018+13.44	5.87	RT	311191.46	353829.02	149.35	400.00	3017+73.36	404.74	RT	310795.11	353882.97
P13	3/4	3018+52.71	6.70	RT	311194.81	353867.42	150.36						
P14	PT	3018+92.04	6.93	RT	311194.45	353905.97	151.52						
P15	PI	3019+00.00	5.36	RT	311195.46	353913.88	151.83						
P16	PC	3019+20.05	1.28	RT	311197.31	353934.07	152.61						
P17	1/2	3019+23.19	3.03	LT	311201.12	353937.80	152.90	4.00	3019+19.24	2.64	LT	311201.30	353933.81
P18	PCC	3019+19.31	6.64	LT	311205.25	353934.43	152.97						
	PCC	3019+19.31	6.64	LT	311205.25	353934.43	152.97						
P19	1/4	3018+90.61	6.93	LT	311208.37	353905.35	152.10						
P20	1/2	3018+61.92	6.77	LT	311208.64	353876.10	151.24	300.00	3018+86.33	293.06	RT	310908.87	353887.95
P21	3/4	3018+33.19	6.16	LT	311206.06	353846.96	150.38						
P22	PT	3018+04.42	5.09	LT	311200.66	353818.21	149.51						
P23	PI	3018+00.00	4.93	LT	311199.62	353813.85	149.38						
P24	PI	3017+75.00	4.75	LT	311193.77	353789.39	148.69						
P25	PI	3017+50.00	4.75	LT	311187.96	353765.07	148.13						
P26	PC	3017+39.01	4.75	LT	311185.40	353754.38	147.92						
P27	1/4	3017+25.55	5.42	LT	311183.02	353741.20	147.70						
P28	1/2	3017+12.14	7.30	LT	311182.12	353727.84	147.51	120.00	3017+39.01	124.75	LT	311302.12	353726.49
P29	3/4	3016+98.91	10.36	LT	311182.72	353714.46	147.37						
P1	PCC	3016+85.92	14.57	LT	311184.81	353701.22	147.24						

SHEET NO.	TOTAL SHEETS
G218	G218
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SCOOTER AVE/ACADEMY DR
GRADING TABLES

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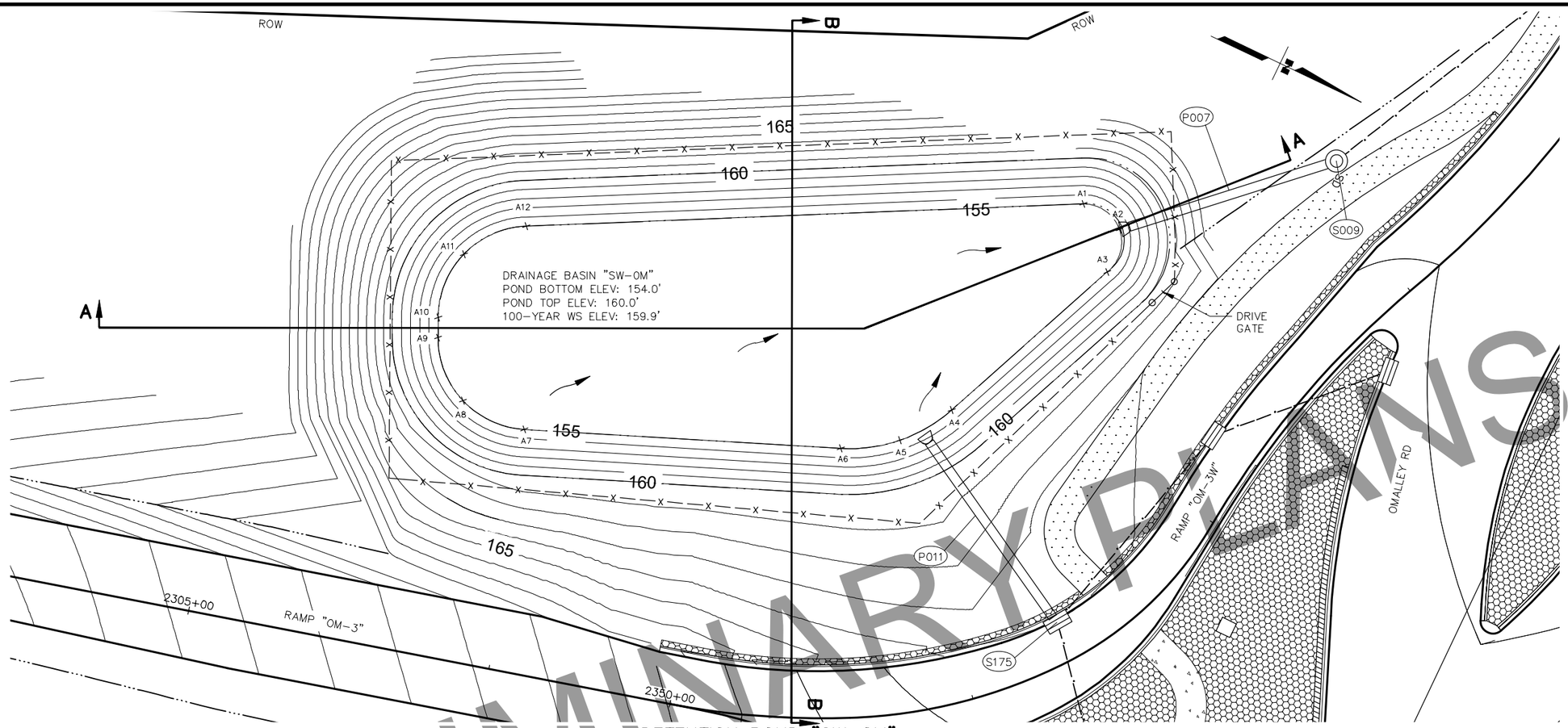
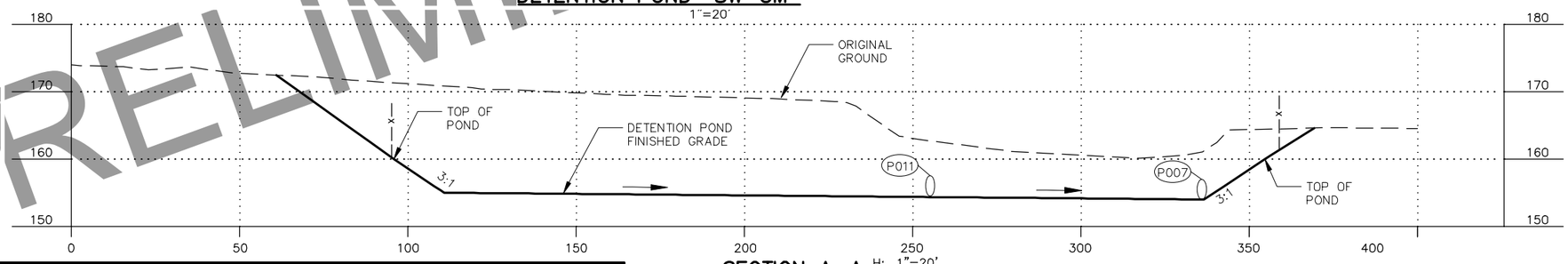


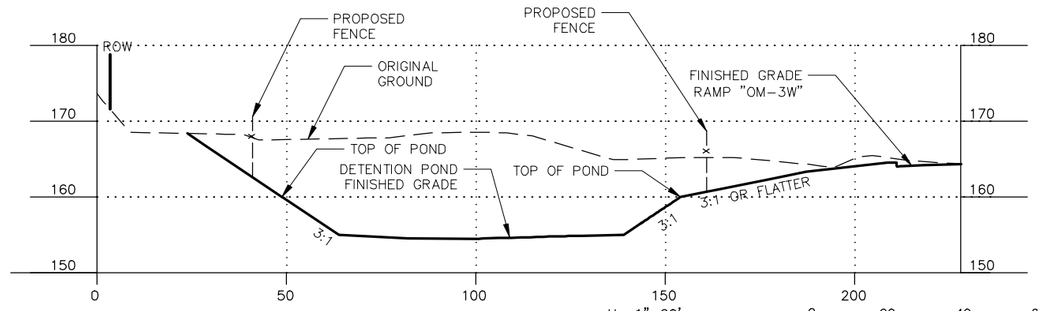
DETENTION POND "SW-0M"

1"=20'



SECTION A-A

H: 1"=20'
V: 1"=10'



SECTION B-B

H: 1"=20'
V: 1"=10'

0 20 40 60
1"=20'

GRADING LAYOUT TABLE

POND "SW-0M"

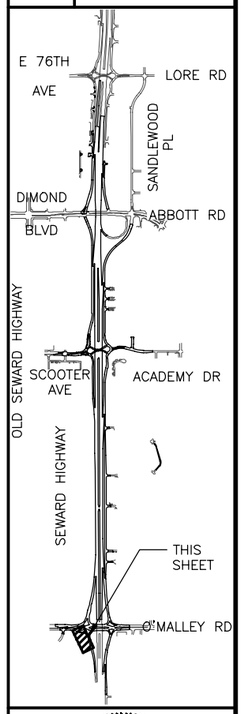
POINT	DESCRIPTION	STATION "0M-3"	OFFSET (FT)	DIRECTION	ELEVATION (FT)	RADIUS	RADIUS POINT		
							STATION	OFFSET	DIRECTION
A1	PC	2205+30.00	578.02	LT	155.00				
A2	1/2	2205+44.00	579.49	LT	155.00	12.5	2205+38.00	568.61	LT
A3	PT	2205+51.00	566.41	LT	155.00				
A4	PC	2205+42.00	498.91	LT	155.00				
A5	1/2	2205+36.00	480.36	LT	155.00	50	2205+03.00	505.41	LT
A6	PT	2205+23.00	465.60	LT	155.00				
A7	PC	2204+65.00	404.35	LT	155.00				
A8	1/2	2204+49.00	399.58	LT	155.00	30	2204+53.00	429.17	LT
A9	PT	2204+36.00	411.25	LT	155.00				
A10	PC	2204+33.00	416.54	LT	155.00				
A11	1/2	2204+29.00	438.24	LT	155.00	30	2204+50.00	434.38	LT
A12	PT	2204+37.00	457.68	LT	155.00				

SHEET NO.	TOTAL SHEETS
GD1	GD13
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

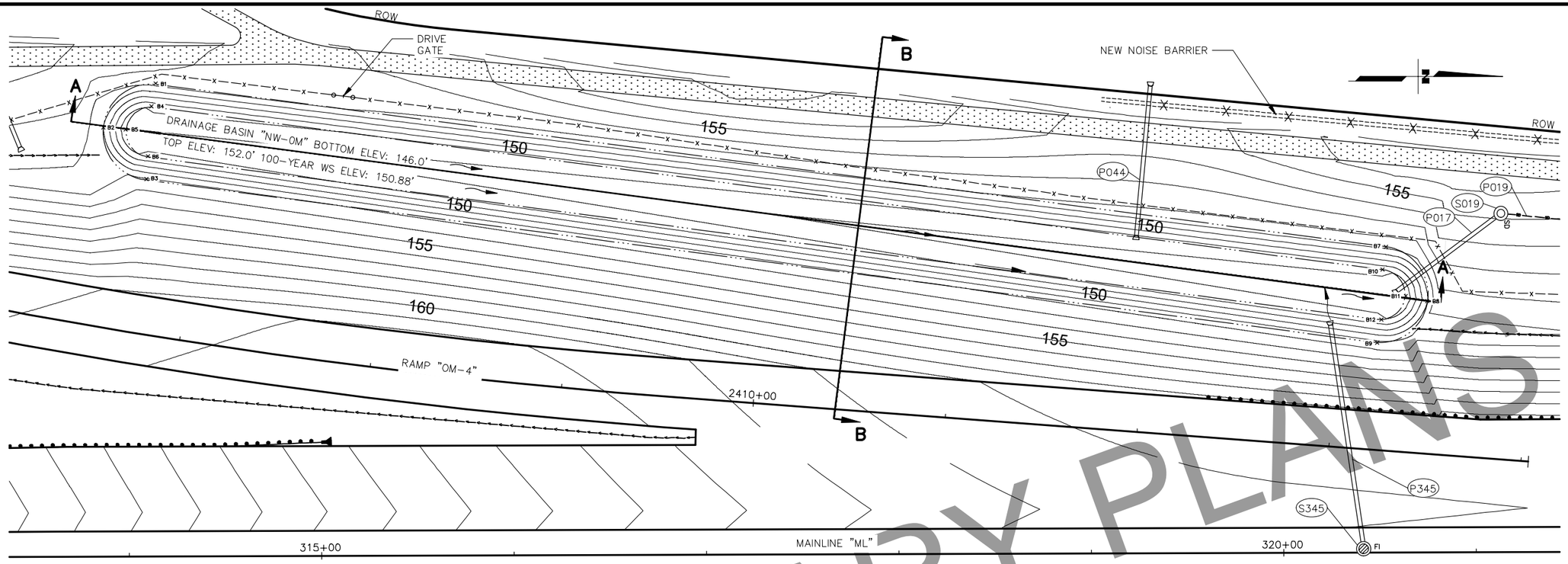
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

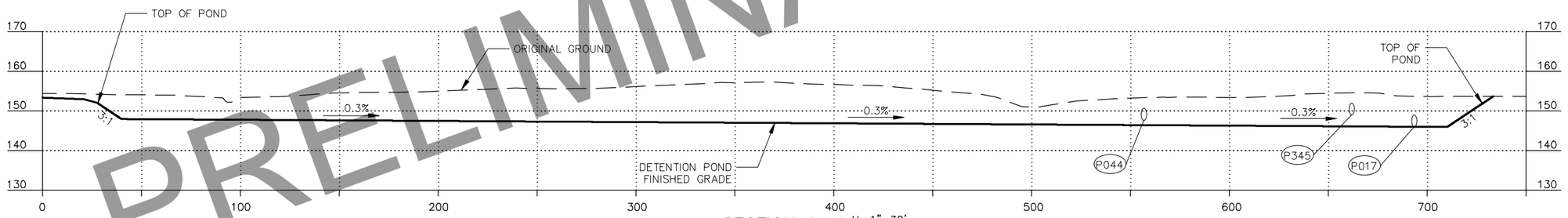
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

DETENTION POND
AT RAMP "0M-3"
GRADING PLAN

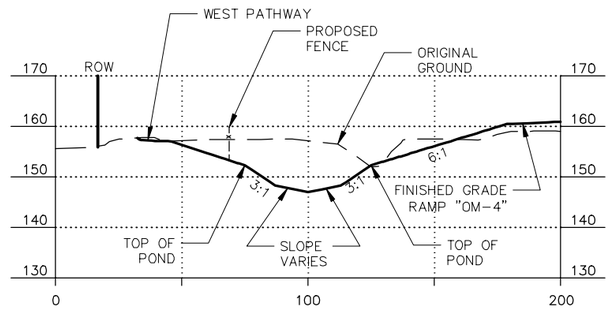
FILE | C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_GD01_DETAIL.DWG | DATE/TIME | 4/7/2022 11:36 AM | LAYOUT | GD1 | DESIGNED | -- | CHECKED | -- | DRAFTED | --



DETENTION POND "NW-OM"
1"=30'



SECTION A–A
H: 1"=30'
V: 1"=15'



SECTION B–B
H: 1"=30'
V: 1"=15'

GRADING LAYOUT TABLE

POND "NW-OM"

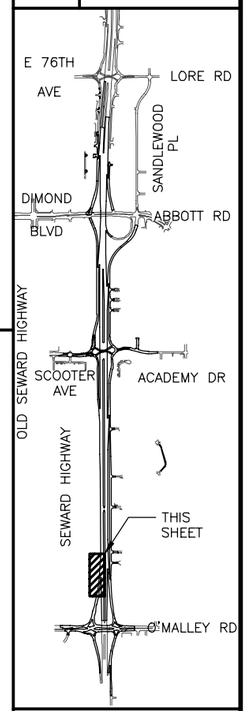
POINT	DESCRIPTION	STATION "OM-4"	OFFSET (FT)	DIRECTION	ELEVATION (FT)	RADIUS	RADIUS POINT		
							STATION	OFFSET	DIRECTION
B1	PC	2406+67.00	129.34	LT	153.30				
B2	1/2	2406+42.00	103.42	LT	152.00	25	2406+68.00	104.36	LT
B3	PT	2406+69.00	79.37	LT	153.30				
B4	PC	2406+68.00	117.35	LT	149.30				
B5	1/2	2406+54.00	103.90	LT	148.00	13	2406+68.00	104.36	LT
B6	PT	2406+68.00	91.37	LT	149.30				
B7	PC	2413+22.00	105.73	LT	151.34				
B8	1/2	2413+45.00	79.38	LT	150.00	25	2413+20.00	80.77	LT
B9	PT	2413+19.00	55.81	LT	151.34				
B10	PC	2413+21.00	93.75	LT	147.34				
B11	1/2	2413+33.00	80.03	LT	146.00	13	2413+20.00	80.77	LT
B12	PT	2413+20.00	67.71	LT	147.34				

0 30 60 90
1"=30'

SHEET NO.	TOTAL SHEETS
GD2	GD13
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

DETENTION POND
AT RAMP "OM-4"
GRADING PLAN

DATE/TIME 4/7/2022 11:36 AM | LAYOUT GD2 | DESIGNED -- | CHECKED -- | DRAFTED --
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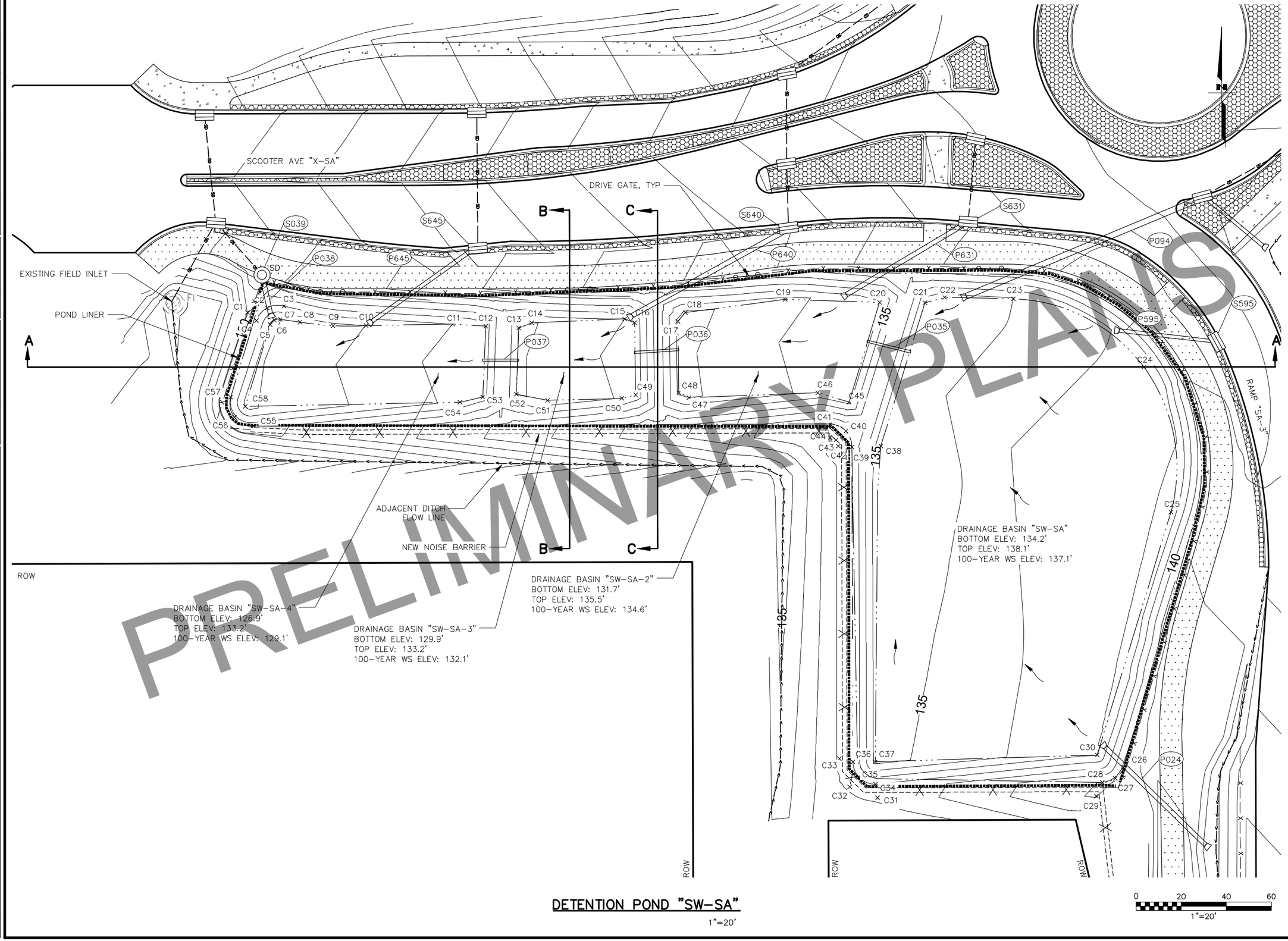


DETENTION POND "SW-SA"

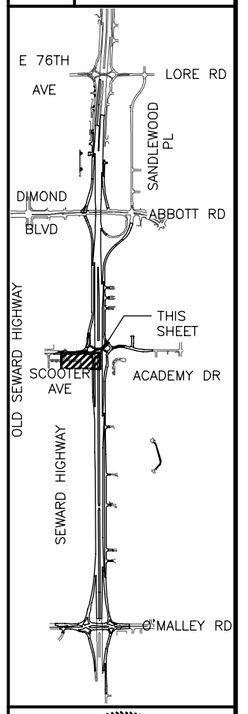
1"=20'

SHEET NO.	TOTAL SHEETS
GD3	GD13
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

DETENTION POND
AT RAMP "SA-3"
GRADING PLAN

FILE [C:\PW_WORKDIR\DEN001\RC053776\D08763332\00012_GD03_DETAIL.DWG | DATE/TIME 4/7/2022 11:36 AM | LAYOUT GD3 | DESIGNED -- | CHECKED -- | DRAFTED --

GRADING LAYOUT TABLE

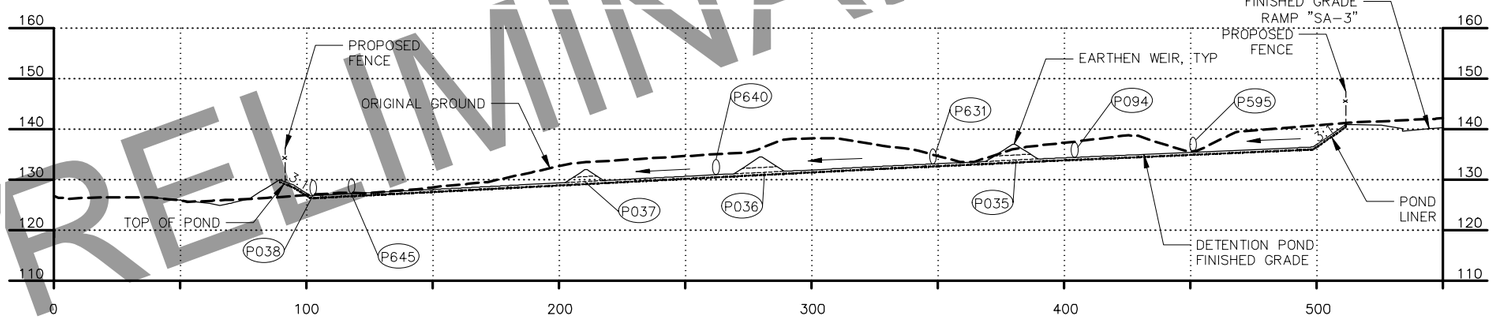
POND "SW–SA"

POINT	DESCRIPTION	STATION "X–SA"	OFFSET (FT)	DIRECTION	ELEVATION (FT)	RADIUS	RADIUS POINT		
							STATION	OFFSET	DIRECTION
C1	PI	3008+58.00	64.21	RT	130.04				
C2	PC	3008+62.00	67.81	RT	129.00				
C3	1/2	3008+67.00	62.11	RT	129.00	10	3008+72.00	70.97	RT
C4	PT	3008+74.00	61.37	RT	129.00				
C5	PC	3008+68.00	69.65	RT	126.89				
C6	1/2	3008+70.00	67.57	RT	126.93	4	3008+72.00	71.05	RT
C7	PT	3008+73.00	67.24	RT	127.00				
C8	PC	3008+82.00	68.53	RT	127.22				
C9	1/2	3008+96.00	70.17	RT	127.61	127.6	3009+03.00	57.23	RT
C10	PT	3009+11.00	70.13	RT	128.00				
C11	PI	3009+49.00	69.62	RT	129.00				
C12	PI	3009+63.00	70.65	RT	129.50				
C13	PI	3009+75.00	72.01	RT	130.00				
C14	PI	3009+81.00	69.99	RT	130.00				
C15	PI	3010+17.00	72.15	RT	131.24				
C16	PI	3010+20.00	74.39	RT	131.25				
C17	PI	3010+37.00	76.73	RT	131.75				
C18	PI	3010+40.00	73.51	RT	131.75				
C19	PI	3010+79.00	77.22	RT	132.75				
C20	PI	3011+20.00	88.83	RT	133.75				
C21	PI	3011+39.00	93.96	RT	134.25				
C22	PI	3011+48.00	93.81	RT	134.50				
C23	PC	3011+82.00	101.32	RT	135.00				
C24	1/2	3012+44.00	140.03	RT	136.56	75	3011+58.00	173.91	RT
C25	PT	3012+49.00	205.30	RT	137.25				
C26	PC	3011+96.00	314.79	RT	141.20				
C27	1/2	3011+86.00	318.84	RT	141.15	10	3011+74.00	286.00	RT
C28	PT	3011+73.00	319.49	RT	141.05				
C29	PI	3011+65.00	324.76	RT	141.11				

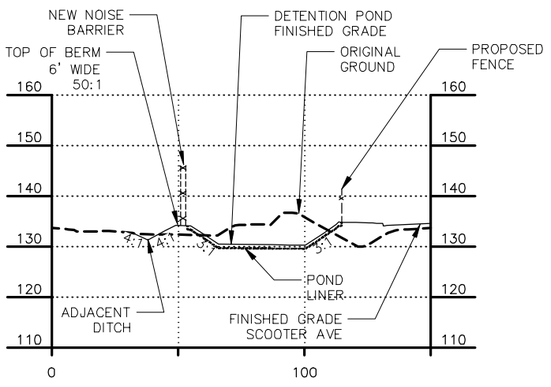
GRADING LAYOUT TABLE

POND "SW–SA"

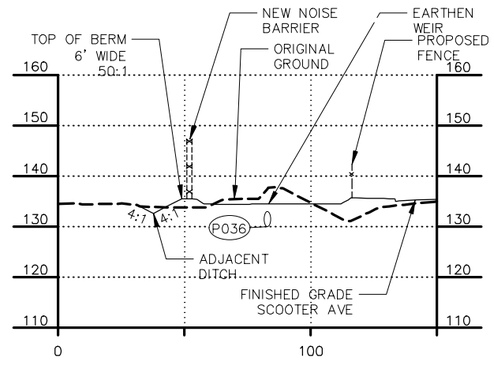
POINT	DESCRIPTION	STATION "X–SA"	OFFSET (FT)	DIRECTION	ELEVATION (FT)	RADIUS	RADIUS POINT		
							STATION	OFFSET	DIRECTION
C30	PI	3011+74.00	286.00	RT	137.00				
C31	PC	3010+69.00	301.77	RT	138.15				
C32	1/2	3010+62.00	294.25	RT	138.12	16	3010+71.00	286.00	RT
C33	PT	3010+61.00	281.08	RT	138.12				
C34	PC	3010+69.00	295.73	RT	138.00				
C35	1/2	3010+65.00	290.78	RT	138.00	10	3010+71.00	286.00	RT
C36	PT	3010+64.00	283.73	RT	138.00				
C37	PI	3010+71.00	286.00	RT	134.75				
C38	PI	3011+04.00	150.74	RT	134.25				
C39	PC	3010+92.00	148.02	RT	138.00				
C40	1/2	3010+91.00	140.47	RT	138.00	10	3010+83.00	145.21	RT
C41	PT	3010+85.00	135.75	RT	138.00				
C42	PC	3010+86.00	146.10	RT	138.12				
C43	1/2	3010+86.00	143.31	RT	138.12	4	3010+83.00	145.21	RT
C44	PT	3010+84.00	141.55	RT	138.12				
C45	PI	3010+96.00	128.43	RT	133.75				
C46	PI	3010+83.00	120.93	RT	133.25				
C47	PI	3010+36.00	110.92	RT	132.00				
C48	PI	3010+33.00	107.98	RT	131.75				
C49	PI	3010+17.00	106.19	RT	131.25				
C50	PI	3010+12.00	106.97	RT	131.09				
C51	PI	3009+85.00	104.78	RT	130.25				
C52	PI	3009+73.00	101.27	RT	130.00				
C53	PI	3009+61.00	102.08	RT	129.50				
C54	PI	3009+52.00	104.29	RT	129.25				
C59	PC	3008+61.00	114.57	RT	129.47				
C60	1/2	3008+52.00	110.55	RT	129.15	10	3008+60.00	104.57	RT
C61	PT	3008+51.00	101.42	RT	129.00				
C62	PC	3008+57.00	105.84	RT	126.87				



SECTION A–A H: 1"=30' V: 1"=15'



SECTION B–B H: 1"=30' V: 1"=15'



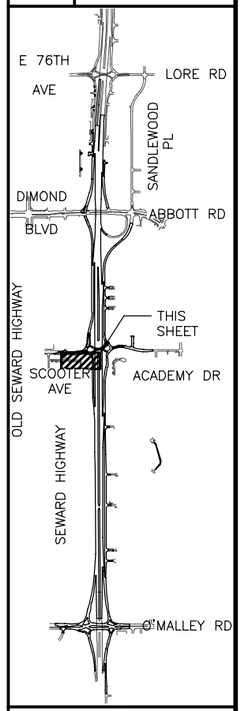
SECTION C–C H: 1"=30' V: 1"=15'

SHEET NO.	TOTAL SHEETS
GD4	GD13
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

POND "SW–SA"
GRADING TABLES

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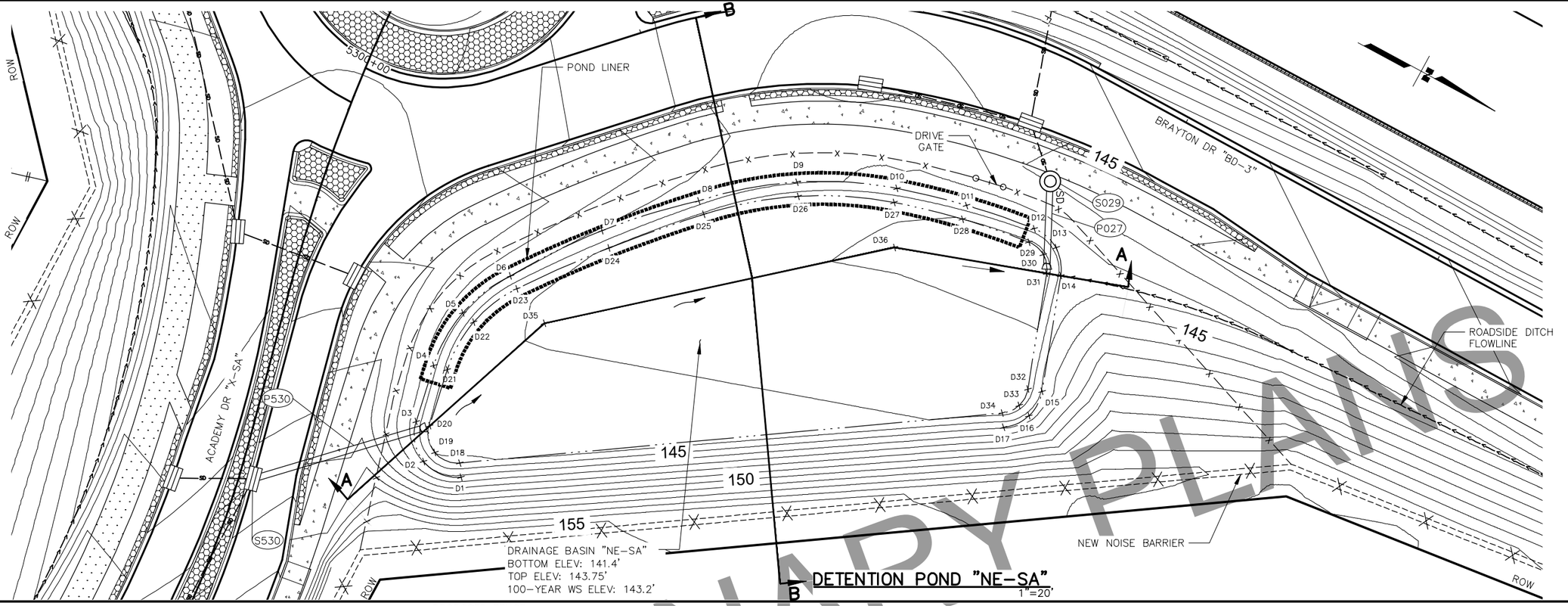
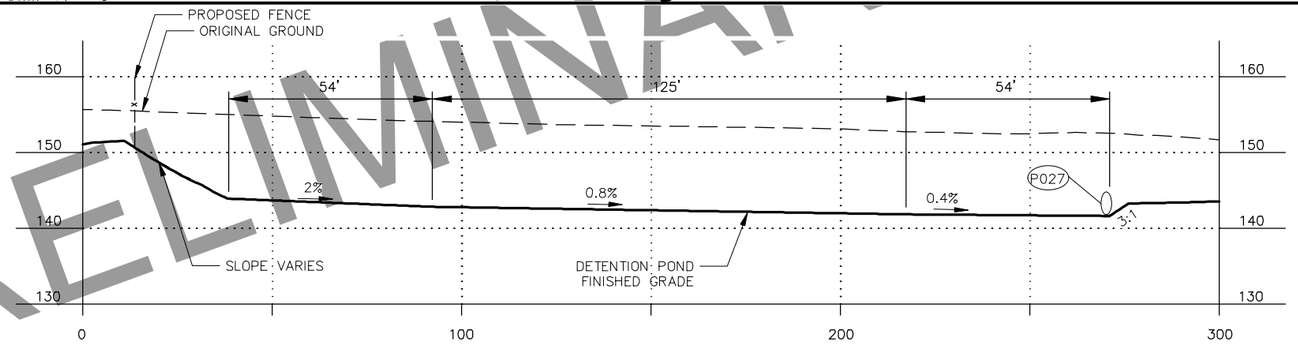
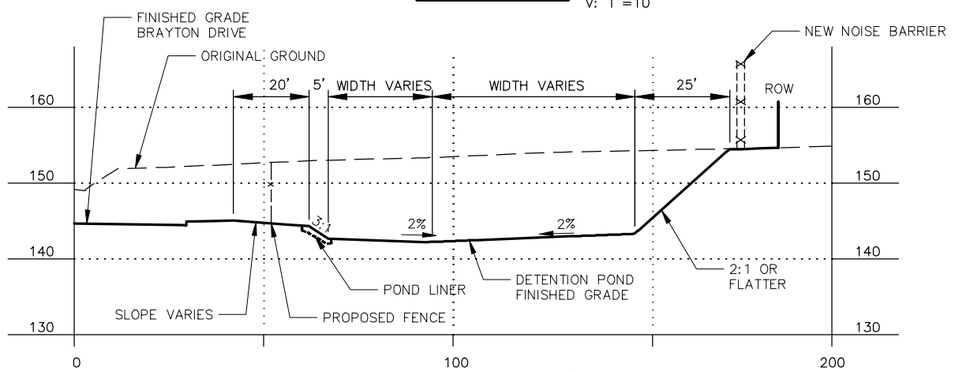




SECTION A–A H: 1"=20' V: 1"=10'



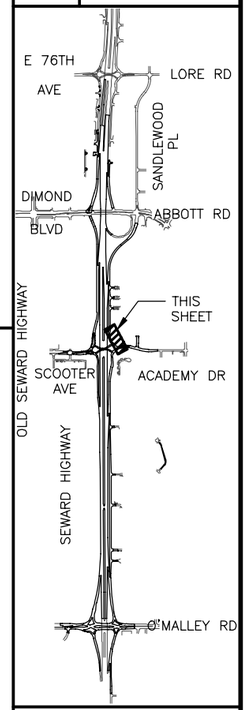
SECTION B–B H: 1"=20' V: 1"=10'

0 20 40 60
1"=20'

SHEET NO.	TOTAL SHEETS
GD5	GD13
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

DETENTION POND AT BRAYTON DR "BD-3" GRADING PLAN

DATE/TIME 4/7/2022 11:37 AM | LAYOUT GD5 | DESIGNED -- | CHECKED -- | DRAFTED --
FILE C:\PW_WORKDIR\DEN001\RK0537776\D0876332\000012_GD05_DETAIL.DWG

GRADING LAYOUT TABLE

POND "NE–SA"

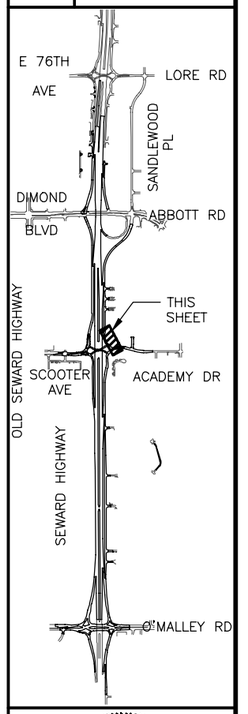
POINT	DESCRIPTION	STATION "BD–3"	OFFSET (FT)	DIRECTION	ELEVATION (FT)	RADIUS	RADIUS POINT		
							STATION	OFFSET	DIRECTION
D1	PC	5300+30.00	136.12	RT	146.31				
D2	1/2	5300+26.00	130.65	RT	145.93	15	5300+30.00	121.15	RT
D3	PT	5300+25.00	116.88	RT	145.54				
D4	PC	5300+27.00	97.06	RT	145.37				
D5	1/2	5300+31.00	78.82	RT	145.19	52	5300+44.00	118.66	RT
D6	PCC	5300+39.00	68.00	RT	145.02				
	PCC	5300+39.00	68.00	RT	145.02				
D7	1/2	5300+66.00	63.18	RT	144.72	472	5305+03.00	433.51	RT
D8	PCC	5301+02.00	62.00	RT	144.42				
	PCC	5301+02.00	62.00	RT	144.42				
D9	1/2	5301+52.00	62.00	RT	144.13	138	5302+64.00	200.00	RT
D10	PCC	5302+02.00	62.00	RT	143.84				
	PCC	5302+02.00	62.00	RT	143.78				
D11	1/2	5302+39.00	60.91	RT	143.63	266	5300+46.00	312.44	RT
D12	PCC	5302+71.00	57.89	RT	143.42				
	PCC	5302+71.00	57.89	RT	143.42				
D13	1/2	5302+81.00	60.05	RT	143.34	15	5302+73.00	72.75	RT
D14	PT	5302+87.00	67.82	RT	143.25				
D15	PC	5303+01.00	106.43	RT	144.07				
D16	1/2	5303+01.00	116.14	RT	144.47	15	5302+86.00	111.40	RT
D17	PT	5302+95.00	123.86	RT	144.88				
D18	PC	5300+30.00	131.13	RT	144.04				
D19	1/2	5300+27.00	127.40	RT	144.00	10	5300+30.00	121.15	RT
D20	PT	5300+27.00	118.17	RT	143.89				
D21	PC	5300+29.00	98.52	RT	143.64				
D22	1/2	5300+33.00	82.30	RT	143.40	47	5300+44.00	118.66	RT
D23	PCC	5300+40.00	72.81	RT	143.16				
	PCC	5300+40.00	72.81	RT	143.16				
D24	1/2	5300+67.00	68.18	RT	142.97	467	5305+03.00	433.51	RT
D25	PCC	5301+02.00	67.00	RT	142.80				
	PCC	5301+02.00	67.00	RT	142.80				
D26	1/2	5301+52.00	67.00	RT	142.48	133	5302+64.00	200.00	RT
D27	PCC	5302+03.00	67.00	RT	142.16				
	PCC	5302+03.00	67.00	RT	142.16				
D28	1/2	5302+39.00	65.89	RT	141.98	261	5300+46.00	312.44	RT
D29	PCC	5302+72.00	62.85	RT	141.82				
	PCC	5302+72.00	62.85	RT	141.82				
D30	1/2	5302+78.00	64.29	RT	141.72	10	5302+73.00	72.75	RT
D31	PT	5302+82.00	69.47	RT	141.60				
D32	PC	5302+96.00	108.09	RT	142.42				
D33	1/2	5302+96.00	114.56	RT	142.56	10	5302+86.00	111.40	RT
D34	PT	5302+92.00	119.71	RT	142.68				
D35	PI	5300+43.00	86.61	RT	142.82				
D36	PI	5302+08.00	82.33	RT	141.82				

SHEET NO.	TOTAL SHEETS
GD6	GD13
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

POND "NE–SA"
GRADING TABLES

FILE | C:\PW_WORKDIR\DEN001\RK053776\D08763321\00012_GD06_DETAIL_DWG | DATE/TIME | 4/7/2022 11:37 AM | LAYOUT | GD6 | DESIGNED | - | CHECKED | - | DRAFTED | -

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD7	GD13

"BD-2" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5203+22.44	2.22	LT	159.57	
5203+25.00	2.24	LT	158.86	
5203+50.00	2.64	LT	158.47	
5203+75.00	3.05	LT	158.07	
5204+00.00	3.46	LT	157.68	
5204+25.00	3.87	LT	157.29	
5204+50.00	4.29	LT	156.89	
5204+75.00	4.70	LT	156.50	
5204+80.00	4.73	LT	156.42	
5205+00.00	4.83	LT	156.25	
5205+25.00	4.89	LT	156.03	
5205+50.00	4.94	LT	155.81	
5205+75.00	4.87	LT	155.60	
5206+00.00	4.90	LT	155.38	
5206+25.00	4.96	LT	155.16	
5206+50.00	5.02	LT	154.95	
5206+75.00	5.08	LT	154.73	
5207+00.00	5.14	LT	154.51	
5207+25.00	5.19	LT	154.30	
5207+50.00	5.25	LT	154.08	
5207+75.00	5.31	LT	153.86	
5208+00.00	5.37	LT	153.65	
5208+25.00	5.43	LT	153.43	
5208+50.00	5.49	LT	153.21	
5208+75.00	5.54	LT	152.99	
5209+00.00	5.60	LT	152.78	
5209+25.00	5.66	LT	152.56	
5209+50.00	5.72	LT	152.34	
5209+75.00	5.78	LT	152.13	
5210+00.00	5.84	LT	151.91	
5210+25.00	5.92	LT	151.69	
5210+50.00	6.04	LT	151.48	
5210+75.00	6.21	LT	151.26	
5211+00.00	6.42	LT	151.04	
5211+25.00	6.68	LT	150.83	
5211+50.00	6.98	LT	150.61	
5211+75.00	7.33	LT	150.39	
5212+00.00	7.72	LT	150.18	
5212+25.00	8.15	LT	149.96	
5212+50.00	8.63	LT	149.74	
5212+55.00	8.75	LT	149.70	LOW POINT
5212+75.00	8.65	LT	149.78	
5213+00.00	8.60	LT	149.87	
5213+25.00	8.59	LT	149.96	
5213+50.00	8.62	LT	150.06	
5213+75.00	8.69	LT	150.15	
5214+00.00	8.81	LT	150.25	
5214+25.00	8.98	LT	150.34	
5214+50.00	9.19	LT	150.43	
5214+75.00	9.44	LT	150.53	
5215+00.00	9.74	LT	150.62	
5215+25.00	10.08	LT	150.72	
5215+50.00	10.46	LT	150.81	
5215+75.00	10.89	LT	150.90	
5216+00.00	11.37	LT	151.00	
5216+25.00	16.41	LT	151.09	
5216+50.00	16.42	LT	151.19	
5216+75.00	15.59	LT	151.28	
5217+00.00	15.61	LT	151.37	
5217+25.00	16.30	LT	151.47	
5217+50.00	17.04	LT	151.56	
5217+75.00	17.83	LT	151.66	

"BD-2" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5218+00.00	18.65	LT	151.75	
5218+25.00	19.50	LT	151.84	
5218+50.00	20.35	LT	151.94	
5218+75.00	21.20	LT	152.03	
5219+00.00	22.04	LT	152.13	
5219+25.00	22.89	LT	152.22	
5219+50.00	23.74	LT	152.31	
5219+75.00	24.58	LT	152.41	
5220+00.00	25.35	LT	152.50	
5220+25.00	26.05	LT	152.60	
5220+50.00	26.68	LT	152.69	
5220+75.00	27.24	LT	152.79	
5221+00.00	27.73	LT	152.88	
5221+25.00	28.15	LT	152.97	
5221+50.00	28.50	LT	153.07	
5221+75.00	28.78	LT	153.16	
5222+00.00	28.99	LT	153.26	
5222+25.00	29.13	LT	153.35	
5222+50.00	29.20	LT	153.44	
5222+65.00	29.33	LT	153.50	
5222+75.00	29.41	LT	153.43	
5223+00.00	29.86	LT	153.27	HIGH POINT
5223+25.00	30.23	LT	153.11	
5223+50.00	30.54	LT	152.94	
5223+75.00	30.78	LT	152.78	
5224+00.00	30.94	LT	152.61	
5224+25.00	31.04	LT	152.45	
5224+50.00	31.07	LT	152.29	
5224+75.00	31.02	LT	152.12	
5225+00.00	30.91	LT	151.96	
5225+25.00	30.73	LT	151.79	
5225+50.00	30.47	LT	151.63	
5225+75.00	30.16	LT	151.46	
5226+00.00	29.84	LT	151.30	
5226+25.00	29.53	LT	151.14	
5226+50.00	29.21	LT	150.97	
5226+75.00	28.89	LT	150.81	
5227+00.00	28.58	LT	150.64	
5227+25.00	28.26	LT	150.48	
5227+50.00	27.94	LT	150.32	
5227+75.00	27.63	LT	150.15	
5228+00.00	27.31	LT	149.99	
5228+25.00	26.99	LT	149.82	
5228+50.00	26.67	LT	149.66	
5228+75.00	26.36	LT	149.50	
5229+00.00	26.04	LT	149.33	
5229+20.00	24.70	LT	149.20	LOW POINT
5229+25.00	25.61	LT	149.22	
5229+50.00	24.75	LT	149.33	
5229+75.00	23.88	LT	149.44	
5230+00.00	23.02	LT	149.55	
5230+25.00	22.15	LT	149.66	
5230+50.00	21.29	LT	149.77	
5230+75.00	20.42	LT	149.88	
5231+00.00	19.53	LT	149.99	
5231+25.00	18.45	LT	150.10	
5231+50.00	17.19	LT	150.21	
5231+75.00	15.74	LT	150.32	
5232+00.00	14.14	LT	150.43	
5232+25.00	12.53	LT	150.54	
5232+50.00	12.11	LT	150.65	
5232+75.00	11.25	LT	150.76	

"BD-2" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5233+00.00	11.18	LT	150.87	
5233+25.00	9.64	LT	150.98	
5233+50.00	8.15	LT	151.09	
5233+75.00	6.71	LT	151.20	
5234+00.00	5.37	LT	151.31	
5234+25.00	4.00	LT	151.42	
5234+50.00	2.71	LT	151.53	

"BD-3" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5301+40.00	23.00	LT	142.47	BEGIN DITCH
5301+50.00	32.04	LT	142.42	
5301+75.00	27.82	LT	142.16	
5302+00.00	21.77	LT	141.91	
5302+25.00	18.13	LT	141.66	
5302+40.00	16.85	LT	141.50	LOW POINT
5302+50.00	16.46	LT	141.61	
5302+75.00	16.29	LT	141.90	
5303+00.00	16.40	LT	142.19	
5303+25.00	16.51	LT	142.48	
5303+50.00	16.62	LT	142.77	
5303+75.00	16.09	LT	143.06	
5304+00.00	16.03	LT	143.35	
5304+25.00	15.99	LT	143.64	
5304+50.00	16.09	LT	143.93	
5304+75.00	16.18	LT	144.22	
5305+00.00	16.28	LT	144.51	
5305+25.00	16.37	LT	144.80	
5305+50.00	16.46	LT	145.09	
5305+75.00	16.31	LT	145.39	
5306+00.00	15.69	LT	145.68	
5306+25.00	14.98	LT	145.97	
5306+50.00	14.16	LT	146.26	
5306+75.00	14.17	LT	146.46	HIGH POINT
5307+00.00	14.15	LT	146.25	
5307+25.00	14.17	LT	146.04	
5307+50.00	14.22	LT	145.82	
5307+75.00	14.30	LT	145.61	
5308+00.00	14.41	LT	145.39	
5308+25.00	13.88	LT	145.18	
5308+50.00	13.20	LT	144.97	
5308+75.00	12.52	LT	144.75	
5309+00.00	11.85	LT	144.54	
5309+25.00	11.18	LT	144.32	
5309+50.00	10.49	LT	144.11	
5309+75.00	10.14	LT	143.89	
5309+91.00	10.16	LT	143.75	LOW POINT
5310+00.00	10.20	LT	143.80	
5310+25.00	9.96	LT	143.96	
5310+50.00	9.42	LT	144.12	
5310+75.00	8.89	LT	144.28	
5311+00.00	8.35	LT	144.43	
5311+25.00	7.80	LT	144.59	
5311+50.00	7.27	LT	144.75	
5311+75.00	6.73	LT	144.91	
5312+00.00	6.19	LT	145.07	
5312+25.00	5.90	LT	145.21	
5312+50.00	5.08	LT	145.27	
5312+75.00	3.89	LT	145.34	
5313+00.00	4.00	LT	145.40	
5313+19.48	3.00	LT	145.40	END DITCH

"BD-4" INTERIOR DITCH

"DI-1" STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
4106.97.00	9.74	RT	129.25	BEGIN DITCH
4107+00.00	10.50	RT	129.17	
4107+25.00	12.29	RT	128.51	
4107+50.00	15.14	RT	127.85	
4107+75.00	17.84	RT	127.19	
4108+00.00	20.28	RT	126.53	
4108+25.00	22.34	RT	125.86	
4108+50.00	24.01	RT	125.20	
4108+75.00	25.29	RT	124.54	
4109+00.00	26.18	RT	123.88	
4109+25.00	26.69	RT	123.22	
4109+50.00	26.91	RT	122.56	
4109+75.00	27.10	RT	121.90	
4109+90.00	26.78	RT	121.50	END DITCH

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"BD-2", "BD-3", & "BD-4" INTERIOR DITCH GRADING

FILE: C:\PW_WORKDIR\DEN001\RK053776\D0876332\00012_GD07_GRADING.DWG
DATE/TIME: 4/7/2022 11:37 AM
LAYOUT: GD7
DESIGNED: -
CHECKED: -
DRAFTED: -

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD8	GD13

"DI-1" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
4100+75.00	19.92	LT	126.80	BEGIN DITCH
4101+00.00	21.19	LT	125.87	
4101+25.00	22.84	LT	124.93	
4101+50.00	24.57	LT	124.00	
4101+75.00	23.40	LT	123.76	
4102+00.00	23.91	LT	123.51	
4102+25.00	22.59	LT	123.27	
4102+50.00	22.74	LT	123.03	
4102+75.00	23.15	LT	122.78	
4102+96.00	23.65	LT	122.58	LOW POINT
4103+00.00	23.48	LT	122.66	
4103+25.00	22.61	LT	123.17	
4103+50.00	22.07	LT	123.68	
4103+75.00	21.82	LT	124.19	
4104+00.00	22.10	LT	124.71	
4104+25.00	22.42	LT	125.22	
4104+50.00	22.60	LT	125.73	
4104+75.00	22.58	LT	126.24	
4105+00.00	22.38	LT	126.75	
4105+25.00	21.94	LT	127.31	
4105+50.00	21.34	LT	127.88	
4105+75.00	20.66	LT	128.44	
4106+00.00	19.85	LT	129.00	
4106+25.00	19.95	LT	129.24	
4106+50.00	20.03	LT	129.48	
4106+75.00	19.91	LT	129.72	
4107+00.00	19.43	LT	129.97	
4107+25.00	19.06	LT	130.21	
4107+50.00	17.63	LT	130.45	
4107+55.24	17.00	LT	130.50	END DITCH

"DI-2" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
4204+93.70	18.68	LT	146.97	BEGIN DITCH
4205+00.00	18.90	LT	146.77	
4205+25.00	19.76	LT	145.95	
4205+50.00	20.54	LT	145.16	
4205+75.00	21.53	LT	144.40	
4206+00.00	22.76	LT	143.64	
4206+25.00	23.73	LT	142.97	
4206+50.00	24.38	LT	142.39	
4206+75.00	25.27	LT	141.82	
4207+00.00	26.42	LT	141.24	
4207+25.00	27.82	LT	140.67	
4207+50.00	29.48	LT	140.09	
4207+75.00	31.80	LT	139.52	
4208+00.00	34.64	LT	138.94	
4208+25.00	37.74	LT	138.37	
4208+50.00	41.10	LT	137.79	
4208+75.00	44.58	LT	137.22	
4209+00.00	44.41	LT	136.64	
4209+05.00	44.25	LT	136.53	END DITCH

"DI-4" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
4400+90.00	50.00	RT	129.50	BEGIN DITCH
4401+00.00	54.67	RT	128.86	
4401+25.00	98.03	RT	127.26	
4401+30.86	108.17	RT	126.88	LOW POINT
4401+50.00	44.09	RT	127.05	
4401+75.00	27.36	RT	127.28	
4402+00.00	24.20	RT	127.50	HIGH POINT
4402+25.00	25.68	RT	126.77	
4402+50.00	27.06	RT	126.04	
4402+75.00	28.33	RT	125.31	
4403+00.00	29.52	RT	124.58	
4403+25.00	30.63	RT	123.85	
4403+50.00	26.80	RT	123.12	
4403+75.00	24.88	RT	122.39	
4404+00.00	25.66	RT	121.66	
4404+05.00	25.81	RT	121.51	LOW POINT
4404+25.00	23.78	RT	122.19	
4404+40.00	22.27	RT	122.70	
4404+50.00	21.87	RT	122.75	
4404+75.00	20.92	RT	122.88	
4405+00.00	20.08	RT	123.00	
4405+20.00	19.50	RT	123.10	HIGH POINT
4405+25.00	19.44	RT	123.07	
4405+50.00	19.31	RT	122.94	
4405+75.00	19.29	RT	122.82	
4406+00.00	19.36	RT	122.69	
4406+25.00	19.53	RT	122.56	
4406+50.00	19.81	RT	122.43	
4406+75.00	20.19	RT	122.30	
4407+00.00	20.55	RT	122.17	
4407+25.00	20.99	RT	122.04	
4407+42.31	21.33	RT	121.95	
4407+50.00	21.53	RT	121.91	
4407+75.00	22.18	RT	121.78	
4408+00.00	22.83	RT	121.66	
4408+25.00	23.20	RT	121.53	
4408+50.00	23.40	RT	121.40	
4408+75.00	23.49	RT	121.28	
4409+00.00	23.48	RT	121.15	
4409+25.00	23.37	RT	121.03	
4409+30.00	23.35	RT	121.00	LOW POINT
4409+50.00	23.02	RT	121.12	
4409+75.00	22.51	RT	121.28	
4410+00.00	21.91	RT	121.44	
4410+25.00	23.63	RT	121.59	
4410+50.00	23.31	RT	121.75	
4410+75.00	22.30	RT	121.90	
4410+90.42	21.57	RT	122.00	
4411+00.00	21.11	RT	122.10	
4411+25.00	19.79	RT	122.37	
4411+50.00	19.37	RT	122.64	
4411+75.00	18.05	RT	122.91	
4411+83.16	17.06	RT	123.00	END DITCH

"HD-3" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
6303+05.31	4.00	RT	143.90	BEGIN DITCH
6303+25.00	6.87	RT	143.79	
6303+50.00	8.03	RT	143.66	
6303+75.00	8.79	RT	143.52	
6304+00.00	9.22	RT	143.38	
6304+25.00	10.17	RT	143.25	
6304+50.00	11.14	RT	143.11	
6304+70.13	12.06	RT	143.00	
6304+75.00	12.35	RT	142.95	
6305+00.00	13.68	RT	142.71	
6305+25.00	14.81	RT	142.47	
6305+50.00	13.05	RT	142.23	
6305+75.00	12.46	RT	141.99	
6306+00.00	13.27	RT	141.75	
6306+25.00	14.34	RT	141.35	
6306+50.00	15.34	RT	140.94	
6306+75.00	16.27	RT	140.54	
6307+00.00	17.13	RT	140.13	
6307+04.83	17.27	RT	140.05	
6307+25.00	17.90	RT	139.74	
6307+50.00	18.58	RT	139.35	
6307+75.00	18.92	RT	138.96	
6308+00.00	20.60	RT	138.57	
6308+04.43	20.93	RT	138.51	
6308+25.00	24.45	RT	137.82	BEGIN SPECIAL DITCH
6308+50.00	25.67	RT	136.99	SPECIAL DITCH
6308+75.00	26.88	RT	136.16	SPECIAL DITCH
6309+00.00	28.10	RT	135.33	SPECIAL DITCH
6309+25.00	29.32	RT	134.50	SPECIAL DITCH
6309+50.00	30.53	RT	133.66	SPECIAL DITCH
6309+75.00	31.75	RT	132.83	SPECIAL DITCH
6310+00.00	32.96	RT	132.00	SPECIAL DITCH
6310+25.00	32.51	RT	131.22	END SPECIAL DITCH
6310+50.00	32.66	RT	130.44	
6310+75.00	33.15	RT	129.66	
6311+00.00	32.96	RT	128.88	
6311+20.00	34.09	RT	128.25	END DITCH

"HD-4" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
6402+25.20	2.82	RT	123.08	BEGIN DITCH
6402+26.00	4.03	RT	122.93	
6402+28.00	3.98	RT	122.59	
6402+30.00	4.09	RT	122.32	
6402+46.75	4.65	RT	121.61	
6402+50.20	4.84	RT	121.49	
6402+75.20	5.98	RT	120.58	
6402+93.82	6.87	RT	119.88	
6403+00.20	7.16	RT	119.66	
6403+25.20	8.26	RT	118.77	
6403+43.57	9.02	RT	118.13	
6403+50.20	9.33	RT	117.90	
6403+75.20	10.36	RT	117.06	
6404+00.20	11.36	RT	116.21	
6404+08.28	11.65	RT	115.94	
6404+25.20	12.32	RT	115.39	
6404+35.00	12.70	RT	115.08	
6404+50.20	12.10	RT	114.99	
6404+75.20	14.29	RT	114.85	
6405+00.20	16.42	RT	114.72	
6405+25.20	18.11	RT	114.58	
6405+50.20	18.82	RT	114.44	
6405+52.00	18.70	RT	114.43	
6405+75.20	19.13	RT	114.29	
6406+00.20	19.23	RT	114.15	END DITCH

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"DI-1", "DI-2", "DI-4", "HD-3", & "HD-4" INTERIOR DITCH GRADING

FILE [C:_PW_WORKDIR\DEN001\RK0537776\D08763332\000172_GD08_GRADING.DWG] | DATE/TIME 4/7/2022 11:37 AM | LAYOUT GD8 | DESIGNED - | CHECKED - | DRAFTED -

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD9	GD13

"OM–1" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
2100+93.09	39.73	LT	166.31	BEGIN DITCH
2101+00.00	42.16	LT	166.20	
2101+25.00	47.72	LT	165.79	
2101+50.00	50.53	LT	165.38	
2101+75.00	50.79	LT	164.98	
2102+00.00	48.50	LT	164.57	
2102+25.00	44.61	LT	164.17	
2102+50.00	40.90	LT	163.76	
2102+75.00	42.43	LT	163.35	
2103+00.00	43.97	LT	162.95	
2103+25.00	38.45	LT	162.54	
2103+50.00	38.85	LT	162.13	
2103+75.00	39.16	LT	161.73	
2104+00.00	39.21	LT	161.37	LOW POINT
2104+25.00	37.33	LT	161.50	
2104+50.00	35.46	LT	161.62	
2104+75.00	33.59	LT	161.75	
2105+00.00	31.72	LT	161.87	
2105+25.00	29.84	LT	162.00	
2105+50.00	27.97	LT	162.12	
2105+75.00	26.10	LT	162.25	
2106+00.00	24.46	LT	162.32	HIGH POINT
2106+25.00	24.82	LT	161.88	
2106+50.00	25.18	LT	161.45	
2106+75.00	25.55	LT	161.02	
2107+00.00	25.91	LT	160.58	
2107+25.00	26.27	LT	160.15	
2107+50.00	26.53	LT	159.72	
2107+75.00	26.84	LT	159.28	
2108+00.00	27.32	LT	158.85	
2108+25.00	27.89	LT	158.41	
2108+50.00	25.40	LT	157.98	
2108+75.00	23.96	LT	157.55	
2109+00.00	22.93	LT	157.16	LOW POINT
2109+25.00	22.56	LT	157.30	
2109+50.00	22.19	LT	157.44	
2109+75.00	21.82	LT	157.57	
2110+00.00	21.44	LT	157.71	
2110+25.00	21.06	LT	157.85	
2110+50.00	20.68	LT	157.99	
2110+75.00	20.29	LT	158.12	
2111+00.00	19.90	LT	158.26	
2111+25.00	19.50	LT	158.40	
2111+50.00	19.09	LT	158.53	
2111+75.00	18.59	LT	158.67	
2112+00.00	18.02	LT	158.81	
2112+25.00	17.35	LT	158.95	
2112+35.00	16.07	LT	159.00	END DITCH

"OM–2" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
2200+10.00	21.30	LT	192.50	BEGIN DITCH
2200+25.00	21.81	LT	191.58	
2200+50.00	22.53	LT	190.66	
2200+75.00	23.24	LT	189.74	
2201+00.00	23.96	LT	188.82	
2201+25.00	24.68	LT	187.91	
2201+50.00	25.40	LT	186.99	
2201+75.00	26.03	LT	186.07	
2202+00.00	26.38	LT	185.15	
2202+25.00	26.44	LT	184.23	
2202+50.00	26.23	LT	183.31	
2202+75.00	25.73	LT	182.39	
2203+00.00	25.09	LT	181.47	
2203+25.00	24.45	LT	180.56	
2203+50.00	23.81	LT	179.64	
2203+75.00	23.17	LT	178.72	
2204+00.00	22.77	LT	177.74	
2204+25.00	22.73	LT	176.68	
2204+50.00	23.02	LT	175.61	
2204+75.00	22.99	LT	174.73	
2205+00.00	22.89	LT	173.96	
2205+25.00	23.17	LT	173.19	
2205+50.00	23.85	LT	172.42	
2205+75.00	24.92	LT	171.65	
2206+00.00	26.38	LT	170.88	
2206+25.00	28.24	LT	170.11	
2206+50.00	33.05	LT	169.35	
2206+75.00	42.44	LT	168.58	
2207+00.00	46.14	LT	167.82	
2207+25.00	50.06	LT	167.13	
2207+50.00	52.80	LT	166.45	
2207+75.00	54.41	LT	165.76	LOW POINT
2208+00.68	50.34	LT	166.32	END DITCH

"OM–3" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
2300+30.00	8.53	RT	191.36	BEGIN DITCH
2300+50.00	9.48	RT	189.18	
2300+75.00	10.67	RT	188.09	
2301+00.00	11.87	RT	187.00	
2301+25.00	12.55	RT	186.06	
2301+50.00	13.27	RT	185.11	
2301+75.00	14.02	RT	184.16	
2302+00.00	14.80	RT	183.22	
2302+25.00	15.60	RT	182.27	
2302+50.00	16.29	RT	181.33	
2302+75.00	16.99	RT	180.38	
2303+00.00	17.69	RT	179.43	
2303+25.00	19.65	RT	178.25	
2303+46.41	21.30	RT	177.23	
2303+50.00	21.56	RT	177.06	
2303+75.00	22.90	RT	175.88	
2304+00.00	24.19	RT	174.70	
2304+25.00	25.41	RT	173.51	
2304+50.00	26.56	RT	172.33	
2304+75.00	27.71	RT	171.14	
2305+00.00	29.11	RT	169.96	
2305+25.00	30.19	RT	168.80	
2305+50.00	30.85	RT	167.63	
2305+75.00	31.50	RT	166.47	
2306+00.00	32.15	RT	165.31	
2306+25.00	32.81	RT	164.14	
2306+50.00	33.46	RT	162.98	
2306+75.00	39.35	RT	161.82	
2307+00.00	39.44	RT	160.65	
2307+25.00	40.06	RT	159.49	
2307+50.00	41.84	RT	158.33	
2307+75.00	45.09	RT	157.16	
2308+00.00	49.48	RT	156.00	LOW POINT
2308+25.00	40.40	RT	158.43	
2308+87.50	22.11	RT	162.18	END DITCH

"OM–4" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
2400+50.00	67.35	RT	157.20	BEGIN DITCH
2400+75.00	57.36	RT	156.90	
2401+00.00	53.98	RT	156.60	
2401+25.00	50.82	RT	156.30	
2401+50.00	51.34	RT	156.00	
2401+75.00	50.99	RT	155.83	
2402+00.00	50.65	RT	155.67	
2402+25.00	50.32	RT	155.50	
2402+50.00	49.96	RT	155.33	
2402+75.00	49.62	RT	155.17	
2403+00.00	49.09	RT	155.00	
2403+25.00	46.06	RT	154.83	
2403+50.00	43.25	RT	154.67	
2403+75.00	40.77	RT	154.50	
2404+00.00	38.63	RT	154.33	
2404+25.00	37.54	RT	154.17	
2404+50.00	38.76	RT	154.00	LOW POINT
2404+75.00	37.61	RT	154.51	
2405+00.00	36.57	RT	155.02	
2405+25.00	35.53	RT	155.53	
2405+50.00	34.48	RT	156.04	
2405+75.00	33.44	RT	156.55	
2406+00.00	32.40	RT	157.06	
2406+25.00	31.36	RT	157.57	
2406+50.00	30.31	RT	158.07	
2406+75.00	24.85	RT	158.58	
2407+00.00	22.11	RT	159.09	
2407+25.00	21.59	RT	159.60	
2407+50.00	21.04	RT	160.11	
2407+75.00	21.06	RT	160.27	
2408+00.00	20.93	RT	160.44	
2408+25.00	20.65	RT	160.60	
2408+50.00	20.57	RT	160.76	
2408+75.00	20.95	RT	160.92	
2409+00.00	21.34	RT	161.09	
2409+25.00	21.73	RT	161.25	
2409+50.00	22.10	RT	161.41	
2409+71.00	20.31	RT	161.55	END DITCH

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"OM–1", "OM–2", "OM–3", & "OM–4" INTERIOR DITCH GRADING

DATE/TIME | 4/7/2022 11:37 AM | LAYOUT | GD9 | DESIGNED | – | CHECKED | – | DRAFTED | –

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_GD09_GRADING.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD10	GD13

"SA-2" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
3206+45.01	16.75	LT	152.13	BEGIN DITCH
3206+50.00	17.25	LT	152.01	
3206+75.00	19.39	LT	151.39	
3207+00.00	20.88	LT	150.78	
3207+25.00	21.18	LT	150.36	
3207+50.00	22.21	LT	149.93	
3207+75.00	22.04	LT	149.51	
3208+00.00	21.21	LT	149.08	
3208+25.00	21.57	LT	148.66	
3208+50.00	21.90	LT	148.24	
3208+75.00	21.91	LT	148.05	
3209+00.00	21.73	LT	147.87	
3209+25.00	21.57	LT	147.69	
3209+50.00	21.67	LT	147.51	
3209+75.00	21.75	LT	147.32	
3210+00.00	21.79	LT	147.14	
3210+25.00	21.82	LT	146.96	
3210+50.00	21.85	LT	146.78	
3210+75.00	22.09	LT	146.60	
3210+80.00	22.24	LT	146.56	LOW POINT
3211+00.00	21.67	LT	146.71	
3211+25.00	20.97	LT	146.89	
3211+50.00	20.27	LT	147.07	
3211+75.00	19.57	LT	147.26	
3212+00.00	19.06	LT	147.44	HIGH POINT
3212+25.00	19.21	LT	147.40	
3212+50.00	22.71	LT	147.36	
3212+75.00	23.01	LT	147.32	
3213+00.00	23.31	LT	147.28	
3213+25.00	24.83	LT	146.93	
3213+50.00	25.97	LT	146.59	
3213+75.00	26.69	LT	146.24	
3214+00.00	27.40	LT	145.90	
3214+25.00	27.74	LT	145.55	
3214+50.00	27.66	LT	145.20	
3214+75.00	27.52	LT	144.86	
3215+00.00	27.28	LT	144.51	
3215+25.00	26.94	LT	144.16	
3215+50.00	26.50	LT	143.82	
3215+75.00	26.02	LT	143.47	
3216+00.00	25.52	LT	143.13	
3216+25.00	24.09	LT	143.01	
3216+50.00	23.33	LT	142.90	
3216+75.00	22.70	LT	142.79	
3217+00.00	22.65	LT	142.68	
3217+25.00	22.27	LT	142.57	
3217+50.00	21.37	LT	142.46	
3217+75.00	20.39	LT	142.35	
3218+00.00	21.35	LT	142.23	
3218+13.00	23.12	LT	142.18	LOW POINT
3218+25.00	19.95	LT	143.31	
3218+30.71	22.22	LT	143.86	END DITCH

"SA-3" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
3308+70.00	20.10	RT	151.75	BEGIN DITCH
3308+73.50	20.10	RT	151.66	
3308+75.00	17.35	RT	151.63	
3309+00.00	19.45	RT	151.00	
3309+25.00	21.01	RT	150.38	
3309+50.00	22.44	RT	149.75	
3309+75.00	23.88	RT	149.13	
3310+00.00	25.32	RT	148.50	
3310+25.00	24.75	RT	148.38	
3310+50.00	24.19	RT	148.25	
3310+75.00	23.62	RT	148.13	
3311+00.00	23.38	RT	148.00	
3311+25.00	22.04	RT	147.88	
3311+50.00	22.51	RT	147.75	
3311+75.00	22.87	RT	147.63	
3312+00.00	22.91	RT	147.50	
3312+25.00	20.37	RT	147.38	
3312+50.00	20.05	RT	147.25	
3312+75.00	19.66	RT	147.13	
3313+00.00	20.09	RT	147.00	
3313+25.00	27.55	RT	146.52	
3313+50.00	27.53	RT	146.03	
3313+75.00	27.52	RT	145.55	
3314+00.00	27.51	RT	145.06	
3314+25.00	27.49	RT	144.58	
3314+50.00	27.48	RT	144.09	
3314+75.00	27.47	RT	143.61	
3315+00.00	27.46	RT	143.12	
3315+25.00	27.45	RT	142.64	
3315+50.00	27.44	RT	142.15	
3315+75.00	27.42	RT	141.67	
3316+00.00	27.41	RT	141.18	
3316+25.00	27.40	RT	140.70	
3316+50.00	27.39	RT	140.21	
3316+75.00	27.38	RT	139.73	
3317+00.00	27.34	RT	139.25	
3317+25.00	27.47	RT	139.04	
3317+50.00	28.13	RT	138.83	
3317+75.00	30.03	RT	138.62	
3318+00.00	34.20	RT	138.42	
3318+25.00	42.37	RT	138.21	
3318+50.00	55.71	RT	138.00	LOW POINT
3319+00.00	58.87	RT	138.89	END DITCH

"SA-4" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
3401+55.01	25.59	RT	137.41	BEGIN DITCH
3401+75.00	26.63	RT	137.00	
3402+00.00	28.09	RT	136.50	
3402+25.00	27.27	RT	136.12	
3402+50.00	27.36	RT	135.73	
3402+75.00	27.34	RT	135.35	
3403+00.00	26.95	RT	134.96	LOW POINT
3403+25.00	25.09	RT	135.09	
3403+50.00	23.73	RT	135.23	
3403+75.00	23.32	RT	135.36	
3403+81.95	23.37	RT	135.40	
3404+00.00	23.54	RT	135.51	
3404+25.00	23.94	RT	135.65	
3404+50.00	24.52	RT	135.80	
3404+75.00	25.10	RT	135.94	
3405+00.00	25.69	RT	136.09	
3405+25.00	26.29	RT	136.23	
3405+50.00	26.88	RT	136.38	
3405+70.56	27.36	RT	136.50	
3405+75.00	27.47	RT	136.53	
3406+00.00	28.08	RT	136.67	
3406+25.00	28.68	RT	136.81	
3406+50.00	28.81	RT	136.95	
3406+75.00	28.71	RT	137.09	
3407+00.00	28.61	RT	137.23	
3407+25.00	27.92	RT	137.37	
3407+50.00	27.11	RT	137.51	
3407+75.00	26.30	RT	137.66	
3408+00.00	25.48	RT	137.80	
3408+25.00	24.68	RT	137.94	
3408+50.00	23.87	RT	138.08	
3408+75.00	23.06	RT	138.22	
3408+80.15	22.89	RT	138.25	
3409+00.00	22.72	RT	138.36	
3409+25.00	22.65	RT	138.49	

"SA-4" INTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
3409+50.00	22.57	RT	138.63	
3409+75.00	22.50	RT	138.76	
3410+00.00	22.43	RT	138.90	
3410+25.00	22.36	RT	139.03	
3410+50.00	22.28	RT	139.17	
3410+75.00	22.21	RT	139.30	
3411+00.00	22.14	RT	139.43	
3411+12.13	22.10	RT	139.50	
3411+25.00	22.08	RT	139.57	
3411+50.00	22.04	RT	139.69	
3411+75.00	22.00	RT	139.82	
3412+00.00	21.96	RT	139.94	
3412+25.00	21.92	RT	140.07	
3412+50.00	21.88	RT	140.20	
3412+75.00	21.84	RT	140.32	
3413+00.00	21.80	RT	140.45	
3413+25.00	19.76	RT	140.58	
3413+50.00	18.68	RT	140.70	
3413+75.00	18.40	RT	140.83	
3414+00.00	18.38	RT	140.96	
3414+25.00	18.36	RT	141.08	
3414+50.00	18.34	RT	141.21	
3414+57.92	18.34	RT	141.25	
3414+75.00	18.21	RT	141.39	
3415+00.00	18.03	RT	141.60	
3415+25.00	17.88	RT	141.81	
3415+50.00	18.01	RT	142.02	
3415+75.00	17.91	RT	142.23	
3416+00.00	17.73	RT	142.44	
3416+07.12	17.68	RT	142.50	
3416+25.00	17.22	RT	142.81	
3416+50.00	16.58	RT	143.25	
3416+75.00	16.26	RT	143.68	
3417+00.00	16.19	RT	144.13	END DITCH

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"SA-2", "SA-3", & "SA-4" INTERIOR DITCH GRADING

DATE/TIME | 4/7/2022 11:37 AM | LAYOUT | GD10 | DESIGNED | - | CHECKED | - | DRAFTED | -
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_GD10_GRADING.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD11	GD13

WESTERN EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
309+85.00	250.02	LT	157.75	BEGIN DITCH
310+00.00	248.17	LT	157.29	
310+25.00	245.09	LT	156.53	
310+50.00	241.43	LT	155.77	
310+75.00	236.82	LT	155.01	
311+00.00	232.68	LT	154.25	
311+25.00	226.41	LT	153.94	
311+50.00	220.68	LT	153.63	
311+75.00	216.77	LT	153.31	
311+80.00	216.11	LT	153.25	
312+00.00	212.71	LT	153.18	
312+25.00	208.96	LT	153.10	
312+50.00	205.43	LT	153.01	
312+75.00	202.12	LT	152.93	
313+00.00	199.00	LT	152.84	
313+25.00	196.10	LT	152.76	
313+50.00	193.40	LT	152.67	
313+75.00	190.91	LT	152.59	
314+00.00	190.45	LT	152.57	END DITCH
320+65.00	118.55	LT	150.50	BEGIN DITCH
320+75.00	118.52	LT	150.55	
321+00.00	115.72	LT	150.68	
321+25.00	114.48	LT	150.80	
321+50.00	113.39	LT	150.93	
321+75.00	112.32	LT	151.05	
322+00.00	111.25	LT	151.18	
322+25.00	110.18	LT	151.30	
322+50.00	109.11	LT	151.43	
322+75.00	108.04	LT	151.55	
323+00.00	106.97	LT	151.68	
323+25.00	105.90	LT	151.80	
323+35.00	105.47	LT	151.85	HIGH POINT
323+50.00	105.73	LT	151.78	
323+75.00	106.16	LT	151.65	
324+00.00	106.59	LT	151.53	
324+25.00	107.02	LT	151.40	
324+50.00	107.45	LT	151.28	
324+75.00	107.88	LT	151.15	
325+00.00	108.31	LT	151.03	
325+25.00	108.74	LT	150.90	
325+50.00	109.17	LT	150.78	
325+75.00	109.60	LT	150.65	
326+00.00	110.03	LT	150.53	
326+05.00	110.11	LT	150.50	LOW POINT
326+25.00	109.26	LT	150.60	

WESTERN EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
326+50.00	108.19	LT	150.73	
326+75.00	107.12	LT	150.85	
327+00.00	106.04	LT	150.98	
327+25.00	104.98	LT	151.10	
327+50.00	103.91	LT	151.23	
327+75.00	104.15	LT	151.35	
328+00.00	104.41	LT	151.48	
328+25.00	98.95	LT	151.60	
328+50.00	97.87	LT	151.73	
328+75.00	96.81	LT	151.85	
329+00.00	95.73	LT	151.98	
329+25.00	94.67	LT	152.10	
329+50.00	93.60	LT	152.23	
329+75.00	92.52	LT	152.35	
330+00.00	91.45	LT	152.48	
330+25.00	90.39	LT	152.60	
330+42.50	89.63	LT	152.69	HIGH POINT
330+50.00	89.76	LT	152.65	
330+75.00	90.20	LT	152.53	
331+00.00	90.63	LT	152.40	
331+25.00	91.05	LT	152.28	
331+50.00	91.48	LT	152.15	
331+75.00	91.92	LT	152.03	
332+00.00	92.34	LT	151.90	
332+25.00	92.77	LT	151.78	
332+50.00	93.21	LT	151.65	
332+75.00	93.63	LT	151.53	
333+00.00	94.06	LT	151.40	
333+25.00	94.50	LT	151.28	
333+50.00	94.92	LT	151.15	
333+75.00	95.35	LT	151.03	
334+00.00	95.79	LT	150.90	
334+25.00	96.21	LT	150.78	
334+50.00	96.64	LT	150.65	
334+75.00	97.07	LT	150.53	
335+00.00	97.50	LT	150.40	
335+25.00	97.93	LT	150.28	
335+50.00	98.36	LT	150.15	
335+75.00	98.79	LT	150.03	
336+00.00	99.22	LT	149.90	
336+25.00	104.04	LT	149.78	
336+50.00	101.83	LT	149.65	
336+75.00	102.27	LT	149.53	
337+00.00	102.69	LT	149.40	
337+25.00	103.12	LT	149.28	

WESTERN EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
337+50.00	103.55	LT	149.15	
337+75.00	104.76	LT	149.03	
338+00.00	106.07	LT	148.90	
338+25.00	107.39	LT	148.78	
338+50.00	108.69	LT	148.65	
338+75.00	110.00	LT	148.53	
339+00.00	111.31	LT	148.40	
339+25.00	115.26	LT	148.28	
339+50.00	113.28	LT	148.15	
339+75.00	113.49	LT	148.03	
340+00.00	114.80	LT	147.90	
340+25.00	116.11	LT	147.78	
340+50.00	117.42	LT	147.65	
340+75.00	117.95	LT	147.53	
341+00.00	118.38	LT	147.40	
341+25.00	118.81	LT	147.28	
341+50.00	119.24	LT	147.15	
341+75.00	119.67	LT	147.03	
342+00.00	120.10	LT	146.90	
342+25.00	120.53	LT	146.78	
342+50.00	120.96	LT	146.65	
342+75.00	121.39	LT	146.53	
343+00.00	121.82	LT	146.40	
343+20.00	122.16	LT	146.30	LOW POINT
343+25.00	118.83	LT	146.84	
343+40.22	108.70	LT	148.50	
343+50.00	108.84	LT	148.46	
343+75.00	109.17	LT	148.35	
344+00.00	109.51	LT	148.24	
344+25.00	109.85	LT	148.13	
344+50.00	110.19	LT	148.02	
344+75.00	110.52	LT	147.91	
345+00.00	110.86	LT	147.80	
345+25.00	111.20	LT	147.69	
345+50.00	111.54	LT	147.58	
345+75.00	111.76	LT	147.47	
346+00.00	110.78	LT	147.36	
346+25.00	110.50	LT	147.25	
346+50.00	112.19	LT	147.14	
346+75.00	115.56	LT	147.03	
346+82.19	115.61	LT	147.00	
347+00.00	116.26	LT	146.84	
347+25.00	114.74	LT	146.62	
347+50.00	108.50	LT	146.40	
347+75.00	106.50	LT	146.18	

WESTERN EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
348+00.00	105.71	LT	145.97	
348+25.00	106.32	LT	145.75	
348+50.00	108.75	LT	145.53	
348+75.00	111.18	LT	145.31	
349+00.00	113.62	LT	145.09	
349+25.00	116.09	LT	144.87	
349+42.83	117.82	LT	144.71	
349+50.00	118.49	LT	144.66	
349+75.00	120.99	LT	144.48	
350+00.00	123.54	LT	144.31	
350+25.00	126.09	LT	144.13	
350+50.00	128.64	LT	143.95	
350+75.00	131.18	LT	143.78	
351+00.00	133.71	LT	143.60	
351+17.12	135.24	LT	143.48	
351+25.00	135.94	LT	143.39	
351+50.00	137.72	LT	143.09	
351+75.00	138.69	LT	142.80	
352+00.00	138.72	LT	142.68	
352+25.00	138.43	LT	142.55	
352+50.00	138.13	LT	142.43	
352+75.00	137.89	LT	142.30	
353+00.00	137.58	LT	142.18	
353+25.00	137.19	LT	142.05	LOW POINT
353+50.00	134.86	LT	142.86	
353+75.00	132.46	LT	143.67	
354+00.00	129.98	LT	144.48	
354+10.00	128.96	LT	144.80	
354+25.00	129.00	LT	144.50	
354+50.00	129.05	LT	144.00	
354+75.00	129.10	LT	143.50	
355+00.00	129.15	LT	143.00	
355+25.00	129.20	LT	142.50	
355+50.00	129.25	LT	142.00	
355+75.00	130.69	LT	141.50	
356+00.00	132.86	LT	141.00	
356+25.00	136.46	LT	140.50	
356+50.00	138.18	LT	140.00	LOW POINT
356+75.00	137.13	LT	140.19	
357+00.00	128.71	LT	140.38	
357+25.00	124.02	LT	140.58	
357+50.00	119.17	LT	140.77	
357+60.00	117.23	LT	140.85	END DITCH

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WESTERN EXTERIOR DITCH GRADING

DRAFTED | - | DESIGNED | - | CHECKED | - | LAYOUT | GD11 | DATE/TIME | 4/7/2022 11:37 AM |

FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_GD11_GRADING.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD12	GD13

"BD-2" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5200+00.00	43.95	RT	159.03	BEGIN DITCH
5200+25.00	44.34	RT	158.59	
5200+50.00	44.78	RT	158.15	
5200+75.00	45.28	RT	157.71	
5201+00.00	45.83	RT	157.27	
5201+25.00	46.44	RT	156.83	
5201+50.00	47.11	RT	156.39	
5201+75.00	47.83	RT	155.95	
5202+00.00	48.62	RT	155.51	
5202+14.00	48.78	RT	155.26	
5202+25.00	48.92	RT	155.21	
5202+50.00	48.56	RT	155.09	
5202+75.00	48.26	RT	154.96	
5203+00.00	48.09	RT	154.84	
5203+25.00	47.98	RT	154.71	
5203+50.00	47.76	RT	154.59	
5203+75.00	47.51	RT	154.46	
5204+00.00	47.73	RT	154.34	
5204+25.00	48.63	RT	154.21	
5204+50.00	49.53	RT	154.09	
5204+75.00	51.24	RT	153.96	
5205+00.00	53.05	RT	153.84	
5205+25.00	54.97	RT	153.71	
5205+50.00	56.98	RT	153.59	
5205+75.00	58.08	RT	153.46	LOW POINT
5206+77.00	59.59	RT	152.95	
5207+00.00	59.20	RT	152.84	
5207+25.00	58.88	RT	152.71	
5207+50.00	58.56	RT	152.59	
5207+75.00	58.24	RT	152.46	
5207+81.00	58.04	RT	152.43	LOW POINT
5208+93.00	58.09	RT	151.87	
5209+00.00	57.33	RT	151.84	
5209+25.00	56.35	RT	151.73	
5209+50.00	55.86	RT	151.62	
5209+75.00	55.54	RT	151.51	
5210+00.00	55.32	RT	151.39	
5210+25.00	55.18	RT	151.28	
5210+50.00	55.12	RT	151.17	
5210+75.00	55.26	RT	151.06	
5211+00.00	55.49	RT	150.95	
5211+25.00	55.80	RT	150.84	
5211+50.00	56.20	RT	150.73	
5211+75.00	56.69	RT	150.62	
5212+00.00	57.27	RT	150.50	
5212+25.00	57.93	RT	150.39	
5212+50.00	58.68	RT	150.28	
5212+58.00	58.92	RT	150.25	LOW POINT
5212+75.00	58.37	RT	150.40	
5213+00.00	57.66	RT	150.63	
5213+25.00	57.05	RT	150.85	
5213+50.00	56.80	RT	151.07	
5213+75.00	56.86	RT	151.29	
5214+00.00	57.00	RT	151.51	
5214+25.00	57.24	RT	151.73	
5214+50.00	56.08	RT	151.96	

"BD-2" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5214+75.00	53.39	RT	152.18	
5215+00.00	51.59	RT	152.40	
5215+25.00	50.34	RT	152.62	
5215+50.00	49.50	RT	152.84	
5215+75.00	49.25	RT	153.07	
5216+00.00	49.05	RT	153.29	
5216+25.00	48.89	RT	153.51	
5216+35.00	48.70	RT	153.59	
5223+33.13	55.00	RT	162.43	
5223+50.00	55.40	RT	162.21	
5223+75.00	55.89	RT	161.88	
5224+00.00	56.26	RT	161.55	
5224+25.00	56.52	RT	161.22	
5224+50.00	56.67	RT	160.90	
5224+75.00	56.72	RT	160.57	
5225+00.00	56.68	RT	160.24	
5225+25.00	56.55	RT	159.91	
5225+50.00	56.34	RT	159.58	
5225+75.00	56.06	RT	159.26	
5226+00.00	55.79	RT	158.93	
5226+25.00	55.52	RT	158.60	
5226+50.00	55.27	RT	158.27	
5226+75.00	54.91	RT	157.94	
5227+00.00	54.19	RT	157.61	
5227+25.00	53.49	RT	157.29	
5227+50.00	52.79	RT	156.96	
5227+75.00	52.10	RT	156.63	
5228+00.00	51.42	RT	156.30	
5228+25.00	50.75	RT	155.97	
5228+50.00	50.08	RT	155.65	
5228+75.00	49.42	RT	155.32	
5229+00.00	48.76	RT	154.99	
5229+25.00	48.28	RT	154.67	
5229+50.00	47.75	RT	154.38	
5229+75.00	47.17	RT	154.11	
5230+00.00	46.54	RT	153.86	
5230+10.00	46.23	RT	153.55	
5230+25.00	45.87	RT	153.64	
5230+50.00	45.16	RT	153.44	
5230+75.00	44.40	RT	153.26	
5231+00.00	43.56	RT	153.10	
5231+25.00	42.50	RT	152.97	
5231+37.24	41.95	RT	152.91	LOW POINT
5232+44.21	34.00	RT	153.28	
5232+50.00	34.00	RT	153.13	
5232+75.00	34.11	RT	152.48	
5233+00.00	34.37	RT	151.83	
5233+25.00	34.32	RT	151.25	
5233+50.00	34.22	RT	150.77	
5233+69.18	34.11	RT	150.02	
5233+75.00	34.07	RT	150.39	
5234+00.00	33.88	RT	150.11	
5234+25+00	33.97	RT	149.93	
5234+50.00	34.00	RT	149.85	
5234+54.00	34.00	RT	149.84	END DITCH

"BD-3" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
5303+00.00	63.53	RT	143.37	BEGIN DITCH
5303+25.00	57.30	RT	143.59	
5303+50.00	53.73	RT	143.81	
5303+75.00	52.27	RT	144.03	
5304+00.00	51.04	RT	144.25	
5304+25.00	50.18	RT	144.48	
5304+50.00	49.16	RT	144.70	
5304+75.00	48.36	RT	144.92	
5305+00.00	47.70	RT	145.14	
5305+25.00	47.16	RT	145.37	
5305+50.00	46.71	RT	145.59	
5305+75.00	46.21	RT	145.81	
5306+00.00	45.61	RT	146.03	
5306+25.00	44.95	RT	146.25	
5306+50.00	44.23	RT	146.48	
5306+75.00	43.48	RT	146.70	
5306+80.00	43.40	RT	146.74	HIGH POINT
5307+00.00	43.68	RT	146.58	
5307+25.00	43.91	RT	146.38	
5307+50.00	44.00	RT	146.18	LOW POINT
5308+54.00	42.21	RT	146.00	
5308+75.00	43.14	RT	145.01	
5308+98.00	44.12	RT	144.00	LOW POINT
5309+00.00	44.01	RT	144.01	
5309+25.00	42.40	RT	144.25	
5309+49.00	40.90	RT	144.48	
5310+52.00	42.28	RT	142.07	
5310+75.00	42.31	RT	141.80	
5311+00.00	42.23	RT	141.60	
5311+25.00	42.23	RT	141.41	
5311+48.00	42.14	RT	141.31	LOW POINT
5312+51.00	40.26	RT	140.78	
5312+75.00	39.90	RT	140.37	
5313+00.00	39.32	RT	139.94	
5313+20.00	39.00	RT	139.61	END DITCH

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"BD-2" & "BD-3" EXTERIOR DITCH GRADING

DATE/TIME | 4/7/2022 11:37 AM | LAYOUT | GD12 | DESIGNED | - | CHECKED | - | DRAFTED | -
FILE | C:\PW_WORKDIR\DEN001\RK0537776\D0876332\00012_GD12_GRADING.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	GD13	GD13

"DI-2" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
4204+31.00	57.40	RT	139.20	BEGIN DITCH
4204+50.00	55.65	RT	138.92	
4204+70.00	53.80	RT	138.62	
4204+75.00	53.33	RT	138.55	
4205+00.00	51.25	RT	138.19	
4205+25.00	49.89	RT	137.84	
4205+50.00	48.83	RT	137.48	
4205+75.00	47.85	RT	137.13	
4206+00.00	46.93	RT	136.77	
4206+25.00	46.04	RT	136.41	
4206+36.91	45.48	RT	136.24	
4206+50.00	44.55	RT	136.06	
4206+75.00	42.85	RT	135.70	END DITCH

"DI-4" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
4401+55.34	55.93	LT	126.76	BEGIN DITCH
4401+75.00	52.64	LT	126.34	
4402+00.00	46.80	LT	125.92	
4402+25.00	43.01	LT	125.50	
4402+50.00	43.11	LT	125.07	
4402+75.00	43.32	LT	124.65	
4403+00.00	43.21	LT	124.23	
4403+25.00	42.97	LT	123.81	
4403+50.00	42.73	LT	123.38	
4403+75.00	42.34	LT	122.96	
4404+00.00	41.48	LT	122.54	
4404+25.00	40.23	LT	122.11	
4404+50.00	38.36	LT	121.69	
4404+75.00	36.11	LT	121.27	
4405+00.00	33.47	LT	120.85	
4405+25.00	31.83	LT	120.42	
4405+50.00	32.28	LT	120.00	
4405+75.00	33.32	LT	119.34	
4406+00.00	34.46	LT	118.68	
4406+25.00	35.70	LT	118.01	
4406+35.00	36.00	LT	117.75	LOW POINT
4406+50.00	36.09	LT	117.83	
4406+75.00	35.94	LT	117.96	
4407+00.00	36.03	LT	118.09	
4407+25.00	36.25	LT	118.22	
4407+50.00	36.50	LT	118.34	
4407+75.00	36.63	LT	118.47	
4407+80.00	36.72	LT	118.50	
4408+00.00	36.14	LT	118.92	HIGH POINT
4408+22.00	37.00	LT	118.81	
4408+25.00	37.19	LT	118.73	
4408+35.00	38.02	LT	118.46	
4408+50.00	39.30	LT	118.03	
4408+60.00	40.12	LT	117.75	
4408+75.00	40.65	LT	117.66	
4409+00.00	41.35	LT	117.51	
4409+25.00	42.30	LT	117.37	
4409+50.00	44.22	LT	117.22	
4409+75.00	44.96	LT	117.07	
4410+00.00	45.96	LT	116.92	
4410+25.00	47.25	LT	116.78	
4410+50.00	49.21	LT	116.63	
4410+75.00	51.31	LT	116.48	
4411+00.00	52.75	LT	116.34	
4411+13.00	53.35	LT	116.26	END DITCH

"HD-4" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
6402+20.00	39.62	LT	116.30	BEGIN DITCH
6402+25.00	39.42	LT	116.28	
6402+50.00	38.43	LT	116.15	
6403+35.00	34.50	LT	115.72	
6403+50.00	34.25	LT	115.47	
6403+75.00	33.84	LT	115.05	
6404+00.00	33.43	LT	114.64	
6404+20.34	33.05	LT	114.31	END DITCH/LOW POINT

"SA-2" EXTERIOR DITCH

STATION	OFFSET	DIRECTION	ELEVATION	REMARKS
3207+00.00	47.98	RT	149.83	BEGIN DITCH
3207+25.00	47.03	RT	149.66	
3207+50.00	45.96	RT	149.48	
3207+75.00	44.88	RT	149.30	
3208+00.00	44.24	RT	149.12	
3208+25.00	43.63	RT	148.95	
3208+50.00	42.96	RT	148.77	
3208+75.00	42.20	RT	148.59	
3209+00.00	41.11	RT	148.42	
3209+25.00	40.09	RT	148.24	
3209+50.00	39.23	RT	148.06	
3209+75.00	38.53	RT	147.89	
3210+00.00	38.01	RT	147.71	
3210+25.00	37.68	RT	147.53	
3210+50.00	37.54	RT	147.36	
3210+75.00	37.55	RT	147.18	
3211+00.00	37.57	RT	147.00	
3211+25.00	37.59	RT	146.83	
3211+50.00	37.61	RT	146.65	
3211+75.00	37.63	RT	146.47	
3212+00.00	37.45	RT	146.29	
3212+25.00	37.06	RT	146.12	
3212+50.00	36.68	RT	145.94	
3212+75.00	36.29	RT	145.76	
3213+00.00	35.91	RT	145.59	
3213+20.00	35.60	RT	145.45	LOW POINT
3213+25.00	34.97	RT	145.69	
3213+50.00	32.00	RT	146.90	HIGH POINT
3213+75.00	32.47	RT	146.49	
3214+00.00	32.95	RT	146.09	
3214+25.00	33.30	RT	145.84	
3214+50.00	33.52	RT	145.77	
3214+75.00	33.70	RT	145.69	
3215+00.00	33.84	RT	145.62	
3215+25.00	33.93	RT	145.54	
3215+50.00	33.96	RT	145.47	
3215+75.00	33.90	RT	145.43	
3216+00.00	33.83	RT	145.40	
3216+14.00	33.79	RT	145.38	
3216+25.00	33.77	RT	145.36	
3216+50.00	33.37	RT	145.33	
3216+75.00	33.15	RT	145.16	
3217+00.00	33.18	RT	144.76	
3217+25.00	33.97	RT	144.26	
3217+50.00	34.86	RT	143.77	
3217+75.00	35.89	RT	143.27	
3217+90.00	36.78	RT	142.98	
3218+00.00	37.37	RT	142.85	
3218+25.00	39.12	RT	142.73	
3218+50.00	41.82	RT	142.60	
3218+69.02	43.81	RT	142.50	END DITCH/LOW POINT

STATE OF ALASKA
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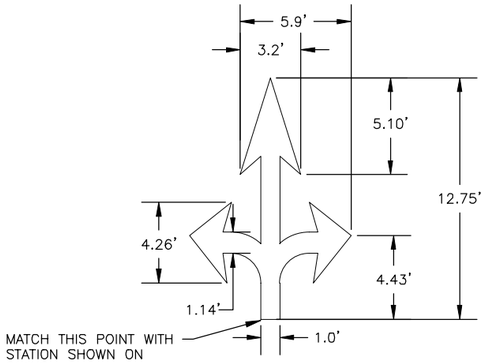
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

"DI-2", "DI-4", "HD-4", & "SA-2" EXTERIOR DITCH GRADING

FILE: C:\PW_WORKDIR\DEN001\RK0537776\D08763321\00012_GD13_GRADING.DWG | DATE/TIME: 4/7/2022 11:37 AM | LAYOUT: GD13 | DESIGNED: - | CHECKED: - | DRAFTED: -



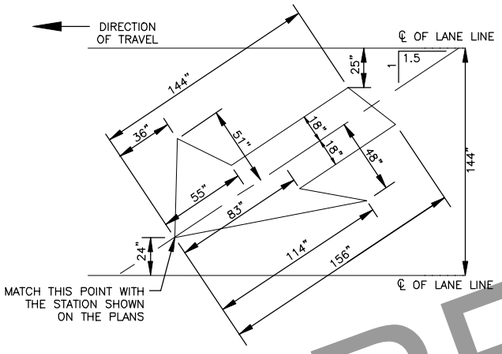
LEFT/THRU/RIGHT ARROW DETAIL

SIGNING & STRIPING NOTES:

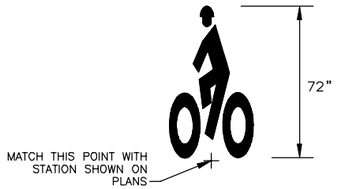
1. ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
   A. PT MEANS A PERFORATED STEEL TUBE.
   B. T MEANS A SQUARE STEEL TUBE.
   C. P MEANS A ROUND STEEL PIPE.
   D. W MEANS A WIDE FLANGE BEAM.
   E. POPL MEANS A POLE PLATE INSTALLED PER ITS ALASKA STANDARD PLAN S-23.
3. FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON ALASKA STANDARD PLAN S-30. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
9. SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
10. FOR ALL FINAL PAVEMENT MARKINGS USE METHYL METHACRYLATE MATERIALS. LONGITUDINAL, TRANSVERSE AND SYMBOL MARKINGS SHALL BE INLAID AT 250 MILS. ROUNDABOUT PAVEMENT MARKINGS SHALL BE INLAID AT 500 MILS. GORE STRIPES SHALL BE INLAID AT 250 MILS.
11. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
12. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
13. WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.

ABBREVIATIONS

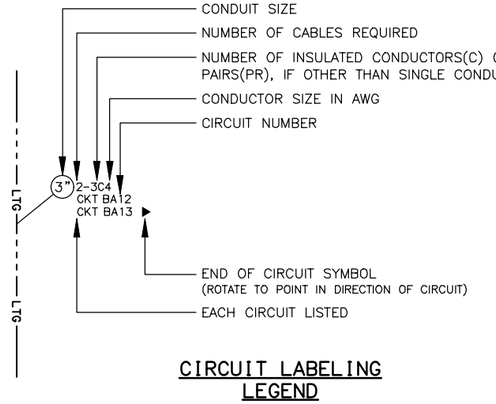
AWG	AMERICAN WIRE GAUGE	P#	TRAFFIC SIGNAL POLE #
CAM	CAMERA	PE	PHOTOELECTRIC CELL
EB	EAST BOUND	PED B ##	PEDESTRIAN PUSH BUTTON #
GND	GROUND	PEDI	PEDESTRIAN SIGNAL HEAD
HDPE	HIGH DENSITY POLYETHYLENE CONDUIT	PRE #	PREEMPTION #
HEAD	VEHICULAR SIGNAL HEAD	PRE CON #	PREEMPTION CONFIRMATION LIGHT #
SIG	SIGNAL	RAD	RADAR
I/C	INTERCONNECT	RMC	RIGID METAL CONDUIT
INTX	INTERSECTION	SB	SOUTH BOUND
INTX L	INTERSECTION LIGHTING	TC	TRAFFIC CONTROLLER
LC	LOAD CENTER	W	WHITE
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	WB	WEST BOUND
LTG	LIGHTING	WPC	WHITE PAINTED CURB
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	Y	YELLOW
NB	NORTH BOUND	YAGI	DIRECTIONAL ANTENNA
OMNI	OMNI DIRECTIONAL ANTENNA	YPC	YELLOW PAINTED CURB



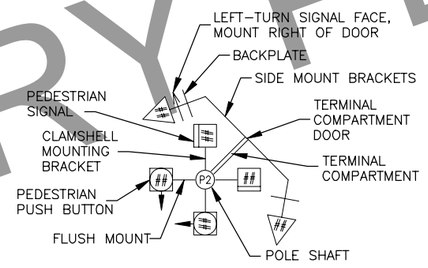
LANE DROP ARROW DETAIL



HELMETED MUTCD BIKE SYMBOL
(EXCLUDE ARROW UNLESS SHOWN IN PLANS)



CIRCUIT LABELING LEGEND



POLE SHAFT LEGEND

FOUNDATIONS NOTES:

1. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
2. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
3. INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
4. INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:48 OF PLUMB.

SIGNAL SYSTEM NOTES:

1. FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
2. INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
3. INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
4. SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINAIRES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTOR'S CUSTODY MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
5. SALVAGE EXISTING CONTROLLER CABINET AFTER NEW CONTROLLER CABINET IS IN SERVICE AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING.
6. REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
7. NEW SIGNAL HEADS THAT ARE MOUNTED BUT NOT IN OPERATION SHALL BE COVERED WITH A COMMERCIALLY AVAILABLE SIGNAL-SHIRT. EACH SIGNAL SHIRT SHALL FEATURE ELASTICIZED OPENINGS THAT FIT OVER THE VISORS AND AT LEAST TWO STRAPS TO SECURE IT TO THE SIGNAL. PROVIDE SHIRTS WITH A LEGEND THAT READS "OUT OF SERVICE" AND A CENTER SECTION THAT ALLOWS AN OPERATOR TO SEE THE INDICATIONS DURING SYSTEM TESTS.
8. SIGNAL HEADS ARE TO BE LOCATED PER FIGURE 4D-100, TYPICAL SIGNAL HEAD LOCATIONS, PER THE ALASKA TRAFFIC MANUAL. ACCEPTABLE VARIANCE IS +/- 1-FOOT.
9. AIM SIGNALS PER TABLE 660-2, THROUGH-SIGNAL AIMING POINT, OF THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/- 5 DEGREES.
10. EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.
11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING ARROW BOARD DEVICES(S), FOR OVERHEAD INSPECTION AND LOCATE WORK PERFORMED BY MOA SIGNAL ELECTRONICS. CONTRACTOR SHALL BE ON-SITE AT COMPLETION OF LOCATES TO REVIEW LAYOUT AND MAKE STATIONING MEASUREMENTS FOR CONDUIT LOCATIONS.

CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

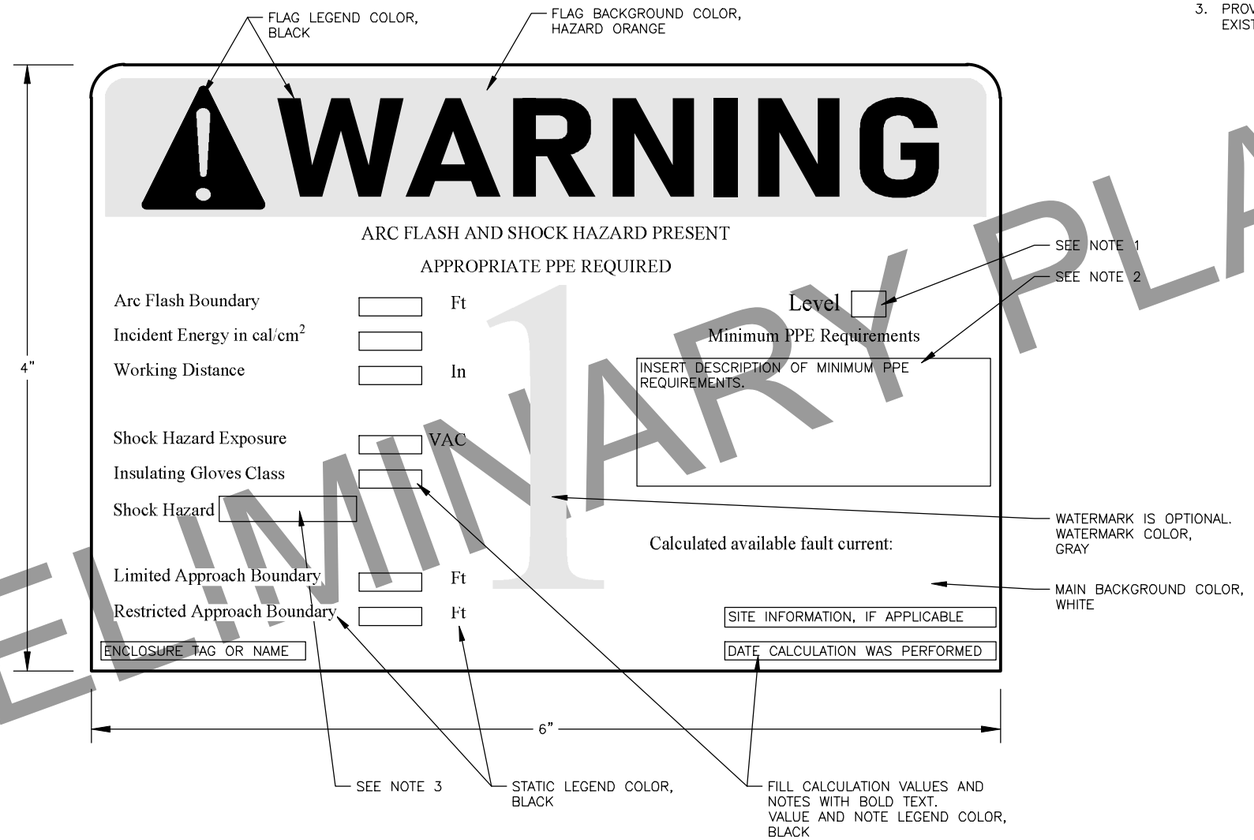
TRAFFIC LEGEND AND NOTES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H2	H39

NOTES:

1. APPLICABLE STATE OF ALASKA DOT&PF ELECTRICAL EQUIPMENT MUST BE LABELED WITH DOT&PF–DEFINED SITE–SPECIFIC PPE LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c). THE LEVELS ARE: LEVEL 1 (0 TO 4 CAL/CM^2), 2 (4.1 TO 8.0 CAL/CM^2), 3 (8.1 TO 25.0 CAL/CM^2), 4 (25.1 TO 39.9 CAL/CM^2), OR WP (WORK PROHIBITED, FOR EQUIPMENT IN WHICH THE CALCULATED ARC FLASH INCIDENT ENERGY IS ≥ 40 CAL/CM^2).
2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(c). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE–SPECIFIC PPE LEVELS.
3. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE "WHEN COVER REMOVED."



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ARC FLASH AND SHOCK HAZARD LABELING DETAILS

DATE/TIME 4/8/2022 4:01 PM | LAYOUT H2 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H3	H39

DATE/TIME	DESIGNED	DRAFTED	CHECKED	LAYOUT	
4/8/2022 4:01 PM	ZH	KK	ZH	H3	

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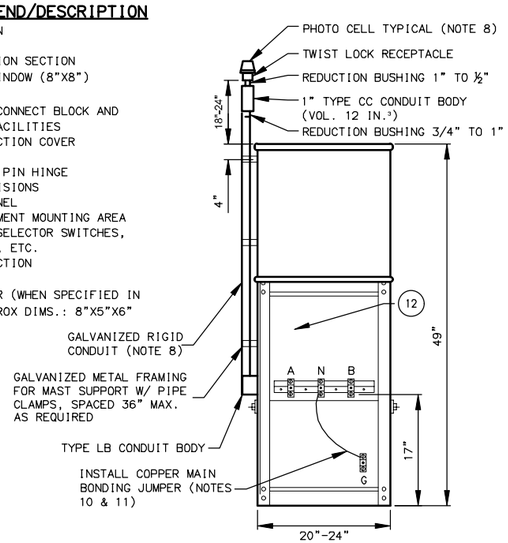
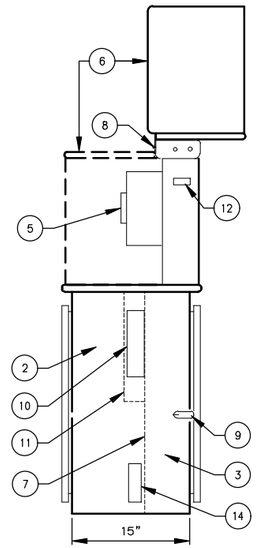
EQUIPMENT LEGEND/DESCRIPTION

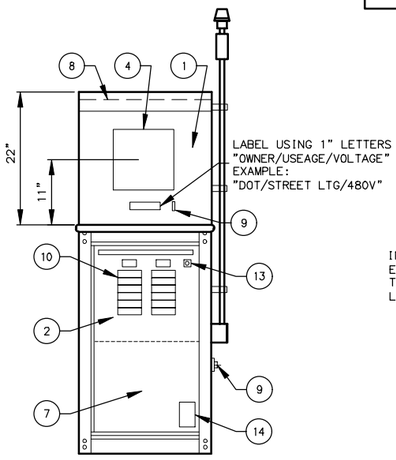
1. METERING SECTION
2. LOAD SECTION
3. UTILITY CONNECTION SECTION
4. METER READING WINDOW (8"X8")
5. METER SOCKET W/ TEST-BYPASS/DISCONNECT BLOCK AND SAFETY SOCKET FACILITIES
6. HINGED METER SECTION COVER
7. DEADFRONT
8. STAINLESS STEEL PIN HINGE
9. PADLOCKING PROVISIONS
10. DISTRIBUTION PANEL
11. ACCESSORY EQUIPMENT MOUNTING AREA FOR CONTACTOR, SELECTOR SWITCHES, TERMINAL STRIPS, ETC.
12. SERVICE PULL SECTION
13. SELECTOR SWITCH
14. ENCLOSURE HEATER (WHEN SPECIFIED IN THE PLANS). APPROX DIMS.: 8"X5"X6"



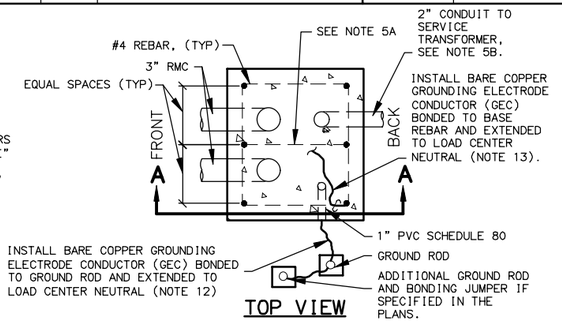
REAR VIEW
(W/ DOOR REMOVED)



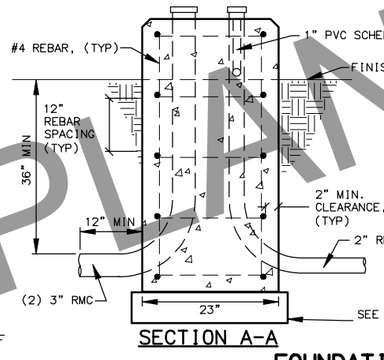
RIGHT SIDE VIEW
(W/ METER SECTION OPEN)



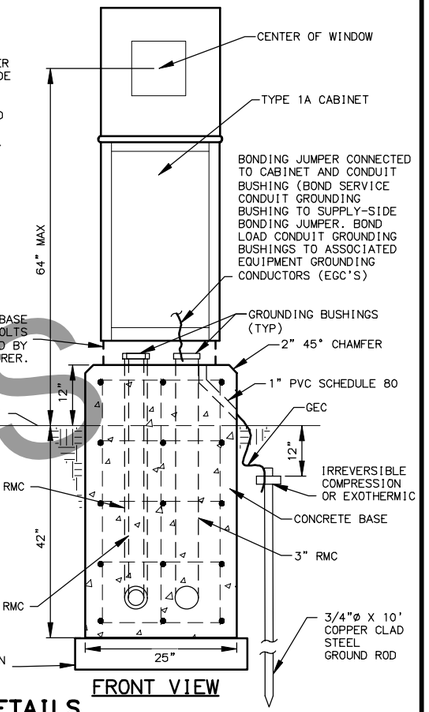
FRONT VIEW
(W/ DOOR REMOVED)



TOP VIEW



SECTION A-A



FRONT VIEW

FOUNDATION DETAILS

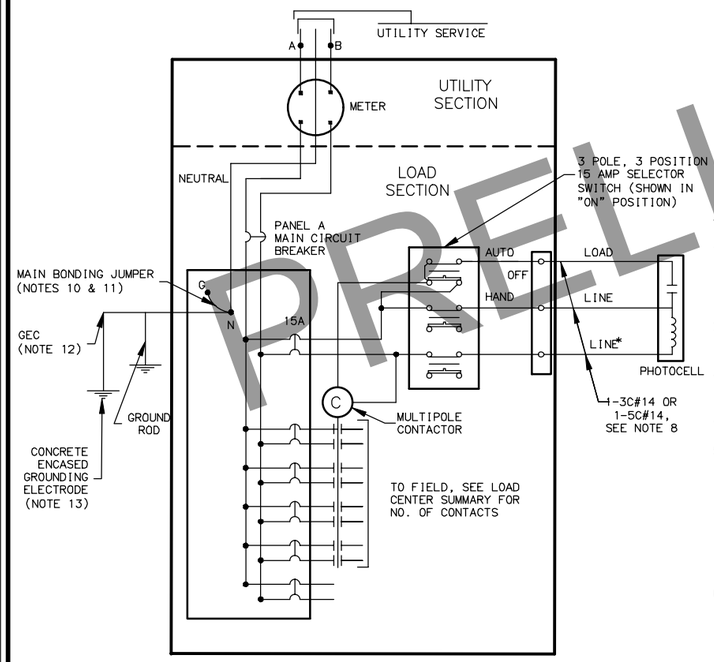
TYPE 1A CABINET DETAILS

FOUNDATION NOTES:

1. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING, WHEN ADJACENT TO A SIDEWALK OR PATHWAY.
2. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. PROVIDE "J" ANCHOR BOLTS IF REQUIRED TO MOUNT LOAD CENTER CABINET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ENSURE 2" MIN. CLEARANCE IS MAINTAINED BETWEEN EDGE OF BOLT HOLE AND BEGINNING OF CHAMFERED EDGE.
3. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "B" CONCRETE CONFORMING TO SECTION 550 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
4. IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.
5. WHEN INSTALLING THE BASE, EXCAVATE AND INSTALL A DRAIN CONSISTING OF 12" MIN. OF COARSE CONCRETE AGGREGATE, OR OTHER APPROVED NON-FROST SUSCEPTIBLE COMPACTED BACKFILL.

WIRING NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, SHORT CIRCUIT INTERRUPTING RATINGS, AND THE NAME OF THE SERVING UTILITY.
2. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS, WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
5. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT REQUIRED TO BE INSTALLED BY THE CONTRACTOR VARIES BY ELECTRIC UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END: MARK THE BURIED END WITH A 2"X 6" WOOD STAKE. SEE THE LOAD CENTER SUMMARY(IES) IN THE PLANS FOR THE FOLLOWING INFORMATION.
   A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
   B. WHERE THE SERVICE ENTRANCE CONDUIT IS TO BE TERMINATED BY THE CONTRACTOR.
   C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
6. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
7. SIZE THE DISTRIBUTION PANEL TO ACCOMMODATE THE CIRCUITS SHOWN ON THE LOAD CENTER SUMMARIES AND SPARE CIRCUITS AS DEFINED IN WIRING NOTE 1.
8. INSTALL THE PHOTOELECTRIC CONTROL UNIT ON A 3/4" OR LARGER CONDUIT. LOCATE THE UNIT 18"-24" ABOVE THE TOP OF THE LOAD CENTER. ORIENT THE CONTROL WINDOW FACING NORTH AND/OR AWAY FROM ARTIFICIAL LIGHT SOURCES THAT MAY INTERFERE WITH AMBIENT LIGHT CONTROL. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE CONDUIT BODY WHERE THE SPLICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE. PHOTOCELL MUST BE ENCLOSED IN A METALLIC ENCLOSURE.



LOAD CENTER ONE LINE DIAGRAM AND SELECTOR SWITCH WIRING

* GROUNDED NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE PHASE OR 277/480 VOLT THREE-PHASE; AND UNGROUNDED LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

WIRING NOTES CONTINUED:

9. SEPARATE THE MAIN CIRCUIT BREAKER FROM THE DISTRIBUTION PANEL
10. INSTALL #6 AWG COPPER MAIN BONDING JUMPER, OR SIZE PER NEC TABLE 250.102 (C) (1), WHICHEVER IS LARGER.
11. INSTALLATION MUST COMPLY WITH NEC 250.24 (C) AND 250.24 (C) EXCEPTION WHEN MORE THAN ONE PANELBOARD IS PRESENT.
12. INSTALL #6 AWG COPPER GROUNDING ELECTRODE CONDUCTOR (GEC), OR SIZE PER NEC TABLE 250.66, WHICHEVER IS LARGER.
13. THE REINFORCING BARS WITHIN THE CONCRETE FOUNDATION MUST BE CONNECTED TOGETHER BY EFFECTIVE MEANS AND WILL BECOME PART OF THE GROUNDING ELECTRODE SYSTEM PER NEC 250.50 AND 250.52(A)(3). INSTALL AN IRREVERSIBLE COMPRESSION GROUNDING CONNECTOR, NRTL-LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE, TO CONNECT THE REINFORCING BARS TO THE GEC. INSTALL A COPPER GEC, SIZED PER NEC 250.66 BUT NOT SMALLER THAN #6 AWG, BETWEEN THE COMPRESSION CONNECTOR AND THE LOAD CENTER NEUTRAL.
14. INSTALL LABEL(S) ON ENCLOSURE EXTERIOR PER ARC FLASH AND SHOCK HAZARD LABELING DETAIL:
    A. TO WARN OF THE POTENTIAL ARC FLASH HAZARD [PER NEC 110.16 AND NFPA 70E], AND
    B. TO IDENTIFY THE AVAILABLE FAULT CURRENT [PER NEC 110.24(A)]
15. MAXIMUM METER HEIGHT SHALL NOT EXCEED 64" FROM FINISHED GRADE TO CENTER OF THE METER SOCKET COVER.
16. WHEN SHOWN ON THE PLANS, INSTALL ENCLOSURE HEATER WITH INTEGRAL THERMOSTAT, SET TO ENERGIZE THE HEATER AT TEMPERATURES AT OR BELOW 32-DEG F. SCHNEIDER ELECTRIC CAT. NO. NSYCRP1W230VTVC, NVENT-HOFFMAN CAT. NO. DAH4002B, OR APPROVED EQUAL.
17. INSTALL DUCT SEALANT OR DUCT PUTTY FOR ALL THE CONDUITS CONTAINING CABLES. INSTALL CONDUIT PENNIES OR FLOWER POT FOR EMPTY CONDUITS IN TRAFFIC CONTROL CABINET AND LOAD CENTERS.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

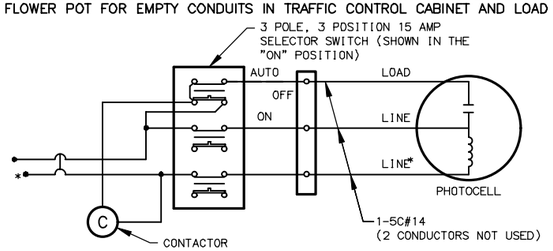
TYPE 1A LOAD CENTER DETAILS

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H4	H39

NOTES:

1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY IN THE PLANS, PLUS TWO 20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS, SHORT CIRCUIT INTERRUPTING RATINGS, AND THE NAME OF THE SERVING UTILITY.
2. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS, WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE CONTACTOR SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. INSTALL THE PHOTOELECTRIC CONTROL UNIT ON A 3/4", OR LARGER, CONDUIT. LOCATE THE UNIT 18-24" ABOVE THE TOP OF THE LOAD CENTER. ORIENT THE CONTROL WINDOW FACING NORTH AND/OR AWAY FROM ARTIFICIAL LIGHT SOURCES THAT MAY INTERFERE WITH AMBIENT LIGHT CONTROL. INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE CONDUIT BODY WHERE THE CONNECTION TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A 5OC#14 FROM LOAD CENTER TO RECEPTACLE. PHOTOCELL MUST BE ENCLOSED IN A METALLIC ENCLOSURE.
5. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
6. LOCATE THE LOAD CENTER AS SHOWN ON THE PLANS.
7. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
8. MAXIMUM METER HEIGHT SHALL NOT EXCEED 64" FROM CAST IRON COVER TO CENTER OF THE METER SOCKET.
9. INSTALL #6 AWG COPPER MAIN BONDING JUMPER, OR SIZE PER NEC TABLE 250.102 (C)(1), WHICHEVER IS LARGER.
10. INSTALLATION MUST COMPLY WITH THE NEC 250.24 (C) AND 250.24 (C) EXCEPTION WHEN MORE THAN ONE PANELBOARD IS PRESENT.
11. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALL BY THE CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A PULL ROPE IN TEH SERVICE CONDUIT AND A CAP ON THE BURIED END: MARK THE BURIED END WITH A 2"x6" WOOD STAKE. SEE THE LOAD CENTER SUMMARIES FOR THE FOLLOWING INFORMATION.
    A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
    B. WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
    C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS A RIGID METAL CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
12. INSTALL COPPER GROUNDING ELECTRODE CONDUCTOR (GEC). INSTALL #6 AWG, OR SIZE PER NEC TABLE 250.66, WHICHEVER IS LARGER.
13. THE REINFORCING BARS WITHIN THE CONCRETE PAD MUST BE CONNECTED TOGETHER BY EFFECTIVE MEANS AND WILL BECOME PART OF THE GROUNDING ELECTRODE SYSTEM PER NEC 250.50 AND 250.52(A)(3). INSTALL AN IRREVERSIBLE COMPRESSION GROUNDING CONNECTOR, NRTL-LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE, TO CONNECT THE REINFORCING BARS TO THE GEC. INSTALL A BARE COPPER GEC, SIZED PER NEC 250.66 BUT NOT SMALLER THAN #6 AWG, BETWEEN THE COMPRESSION CONNECTOR AND THE LOAD CENTER NEUTRAL.
14. INSTALL LABEL(S) ON ENCLOSURE EXTERIOR PER ARC FLASH AND SHOCK HAZARD LABELING DETAIL:
    A. TO WARN OF THE POTENTIAL ARC FLASH HAZARD [PER NEC 110.16 AND NFPA 70E], AND
    B. TO IDENTIFY THE AVAILABLE FAULT CURRENT [PER NEC 110.24(A)].
15. WHEN SHOWN IN THE PLANS, INSTALL ENCLOSURE HEATER WITH INTEGRAL THERMOSTAT, SET TO ENERGIZE THE HEATER AT TEMPERATURES AT OR BELOW 32-DEG F. SCHNEIDER ELECTRIC CAT. NO. NSYCRP1W230VTVC, NVENT-HOFFMAN CAT. NO. DAH4002V, OR APPROVED EQUAL.
16. BOND SERVICE CONDUIT GROUNDING BUSHING TO SUPPLY-SIDE BONDING JUMPER. BOND LOAD CONDUIT GROUNDING BUSHINGS TO ASSOCIATED EQUIPMENT GROUNDING CONDUCTORS (EGC'S).
17. CURFEW PHOTO CELL SHALL BE A RIPLEY PHOTOCLOCK II RC8744 OR APPROVED EQUAL. PROVIDE WITH PROGRAMING CABLE. PHOTOCELL SHALL BE DAYLIGHT SAVINGS ENABLED AND BE CONFIGURED FOR ON AT DUSK, OFF AT MIDNIGHT, ON AT 5AM, AND OFF AT DAWN.
18. LOAD CENTER SHALL BE CONFIGURED SUCH THAT THE INTERSECTION LIGHTING REMAINS ON DURING CURFEW HOURS.
19. LOAD CENTER, INCLUDING TRANSFORMER SHALL BE AN ASSEMBLY LIST BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
20. INSTALL DUCT SEALANTS OR DUCT PUTTY FOR ALL THE CONDUITS CONTAINING CABLES. INSTALL CONDUIT PENNIES OR FLOWER POT FOR EMPTY CONDUITS IN TRAFFIC CONTROL CABINET AND LOAD CENTERS.

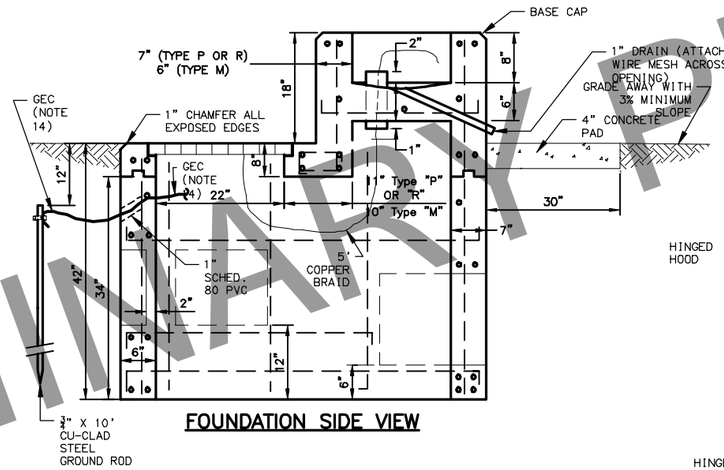


SELECTOR SWITCH WIRING DETAIL

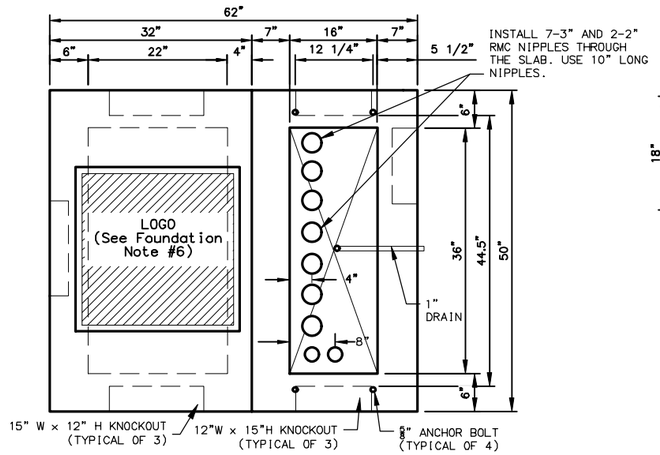
* GROUNDED NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE PHASE AND UNGROUNDED LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

FOUNDATION NOTES:

1. INSTALL THE SURFACE WITH CAST IRON COVER FLUSH WITH THE PAVEMENT, SIDEWALK, OR FINISHED GRADE. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING.
2. WHEN INSTALLING THE BASE, EXCAVATE TO 60" BELOW FINISHED GRADE AND INSTALL A DRAIN CONSISTING OF 18" OF COARSE CONCRETE AGGREGATE APPROVED BY THE ENGINEER. BACKFILL AROUND THE BASE IN 6" LIFTS WITH SELECTED MATERIAL TYPE "A".
3. BACKFILL INSIDE THE FOUNDATION TO WITHIN 24" OF THE LID AFTER ALL CONDUITS ARE INSTALLED, USING COARSE AGGREGATE. TERMINATE THE ENDS OF ALL LOAD CONDUITS A MINIMUM OF 6" ABOVE THE COARSE CONCRETE AGGREGATE BACKFILL AND A MINIMUM OF 12" BELOW THE LID.
4. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
5. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "A" CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
6. FINISH THE BASE ACCESS OPENING WITH A 24" SQUARE IRON FRAME AND COVER WITH PICK HOLE FOR REMOVAL, WEIGHING APPROXIMATELY 280 LBS. PROVIDE COVERS INSCRIBED WITH THE LEGEND "LIGHTING" FOR THOSE LOAD CENTERS WITH STREET LIGHTING CIRCUITS ONLY, AND "TRAFFIC" FOR THOSE LOAD CENTERS WITH A TRAFFIC SIGNAL CIRCUIT.
7. IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE ANOTHER FOR LIFTING.



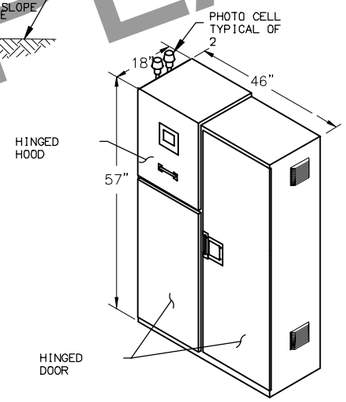
FOUNDATION SIDE VIEW



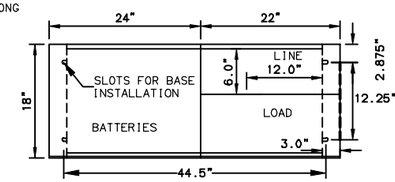
FOUNDATION PLAN VIEW

NOTE: FOUNDATION IS A MODIFIED TYPE P CONTROLLER CABINET FOUNDATION.

LOAD CENTER FOUNDATION

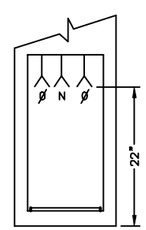


SIDE & FRONT VIEW

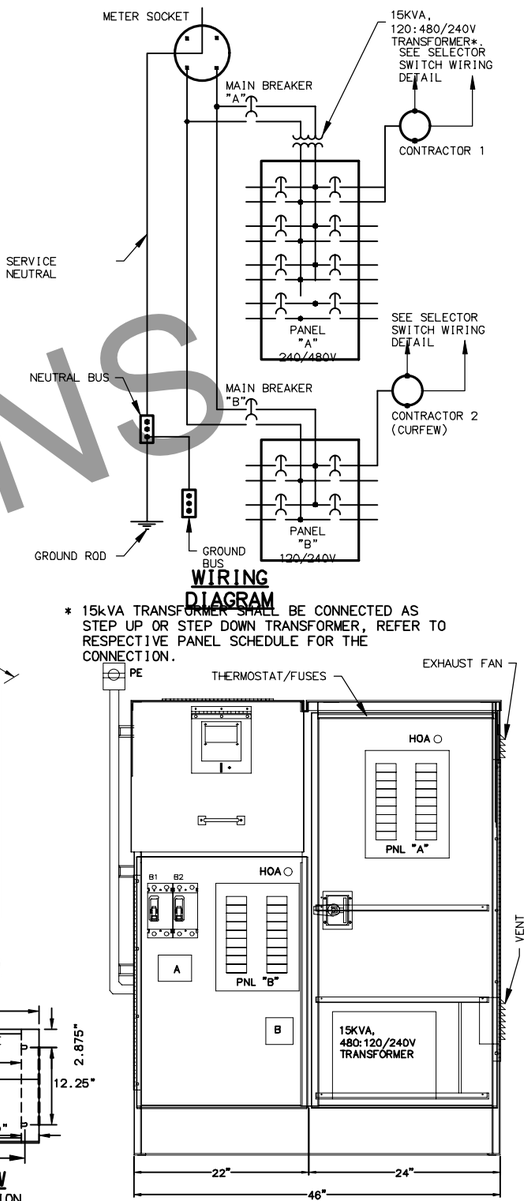


PEDESTAL PLAN VIEW

CABINET BASE TO FIT FOUNDATION



SIDE & REAR LANDING



WIRING DIAGRAM

* 15kVA TRANSFORMER SHALL BE CONNECTED AS STEP UP OR STEP DOWN TRANSFORMER, REFER TO RESPECTIVE PANEL SCHEDULE FOR THE CONNECTION.

FRONT VIEW

CABINET DETAILS

CERTIFICATION APRIL 2022

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPE 1 LOAD CENTER

DATE/TIME | 4/11/2022 3:39 AM | LAYOUT | H4 | DESIGNED | SK | CHECKED | JM | DRAFTED | RM

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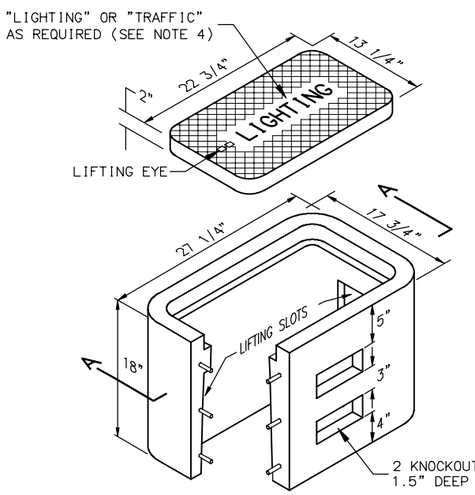
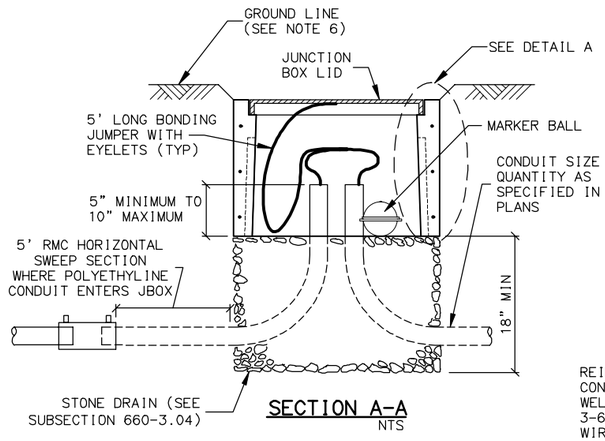
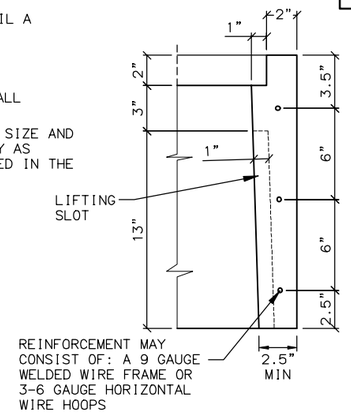
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H5	H39





SECTION A-A
NTS

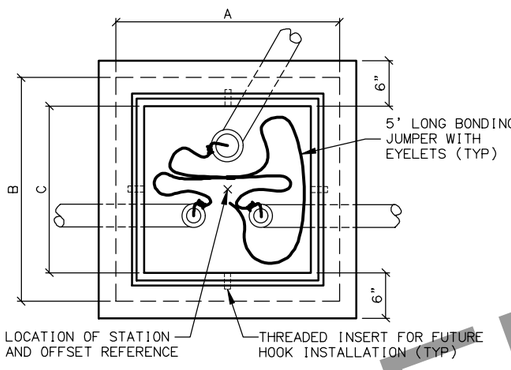


DETAIL A

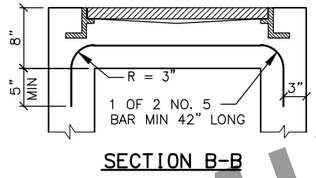
TYPE IA JUNCTION BOX

NOTES:

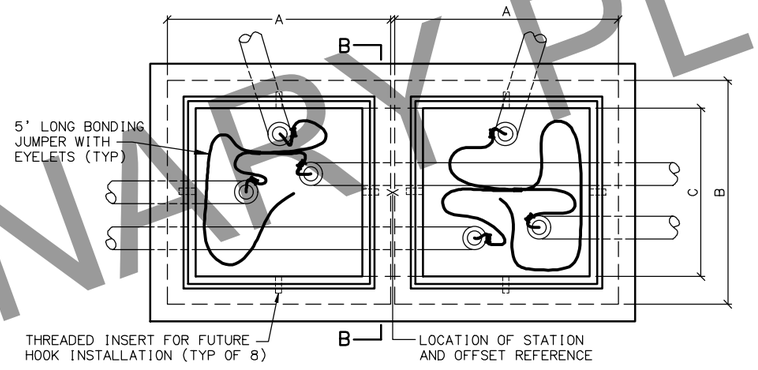
1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "LIGHTING" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
   - 1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
   - 1/4" IN PEDESTRIAN FACILITIES
   - 2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
8. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE 1A JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
9. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
10. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
11. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4-INCHES TALL BY 5-INCHES WIDE. THE WIRE STAFF SHALL BE 21-INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.
12. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 12" BELOW TOP OF JUNCTION BOX.



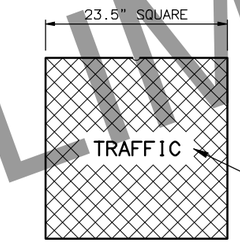
PLAN



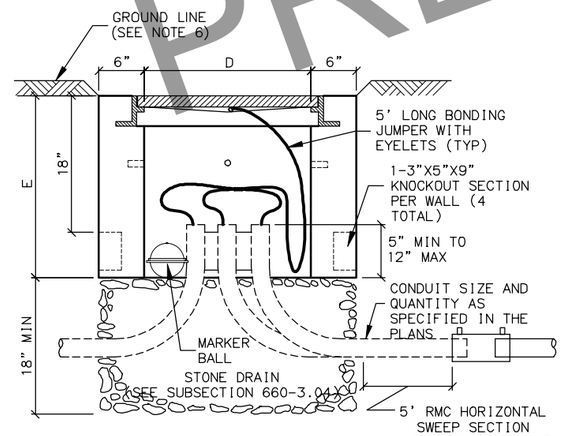
SECTION B-B



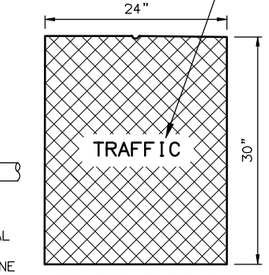
PLAN



LID FOR TYPE II & III J-BOXES

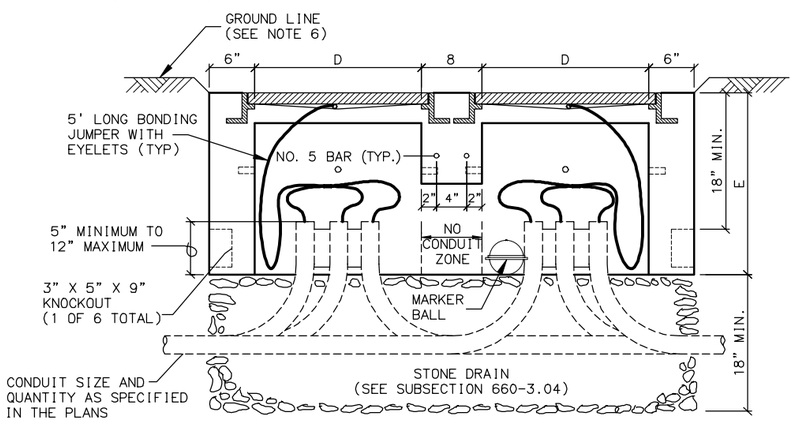


TYPE II JUNCTION BOX
ELEVATION
NTS



LID FOR TYPE IV J-BOXES

"LIGHTING" OR "TRAFFIC" AS REQUIRED (SEE NOTE 4)



TYPE III/IV JUNCTION BOX
ELEVATION (TYPE III LAYOUT DEPICTED)

J-BOX DIMENSIONS

J-BOX TYPE	DIMENSIONS				
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)
II	29 1/2"	29 1/2"	22"	22"	24"
III	29 1/2"	29 1/2"	22"	22"	24"
IV	30"	36"	30"	24"	30"

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

JUNCTION BOX DETAILS

DATE/TIME 4/8/2022 4:01 PM | LAYOUT H5 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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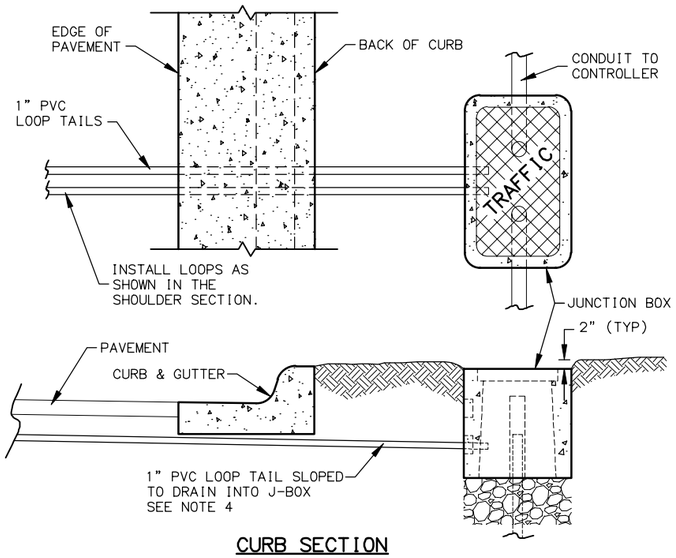
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H6	H39



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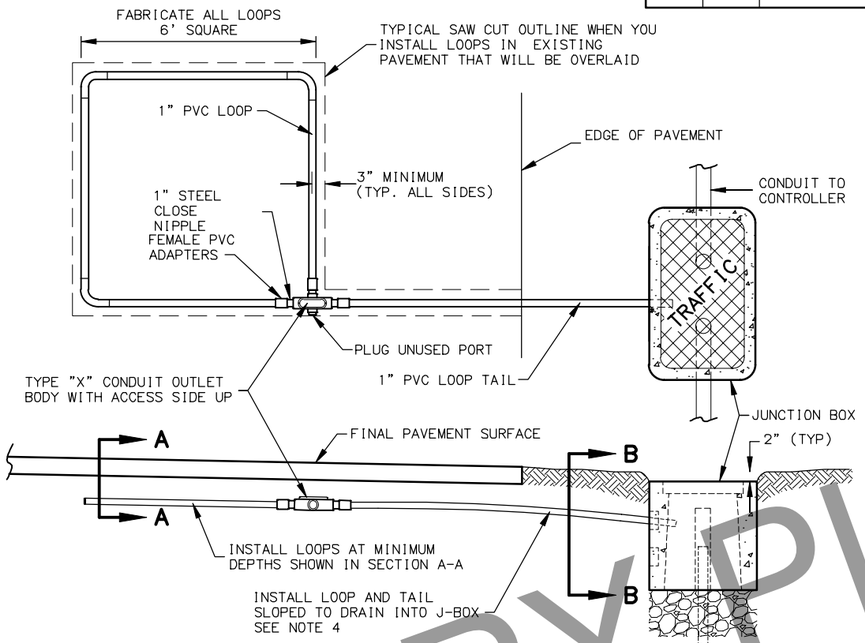
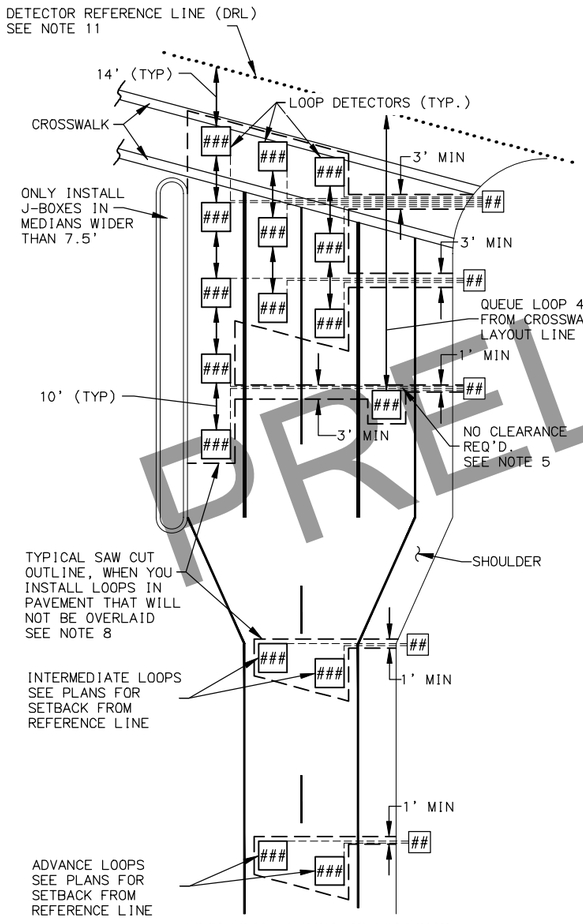
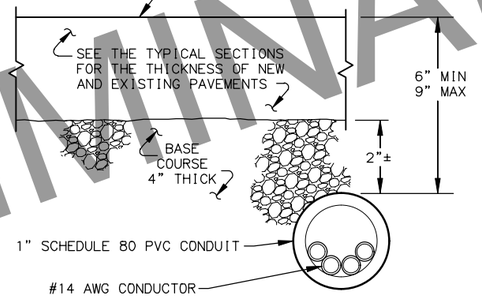


SHOULDER SECTION

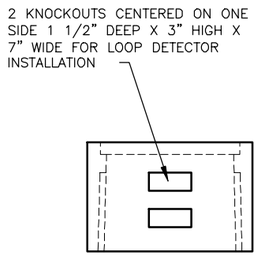


TYPICAL LOOP SETBACKS

MEASURE THE SETBACKS FROM THE DRL LAYOUT LINE ALONG THE CENTER OF EACH LANE



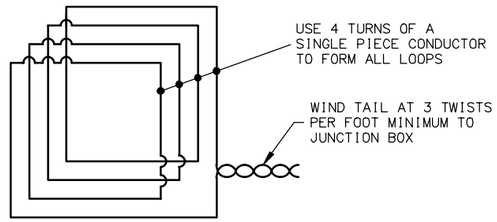
SECTION A-A



SECTION B-B

DETECTOR LOOP SPACING ON HIGH SPEED APPROACHES		
POSTED SPEED (MPH)	ADVANCED LOOP *	INTERMEDIATE LOOP *
35	255	170
40	285	190
45	330	210
50	355	235
55	385	255

* SETBACK FROM DETECTOR REFERENCE LINE (FEET)



LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION

NOTES:

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN ONE INCH SCHEDULE 80 PVC CONDUIT. BUILD ALL LOOPS 6.0 FEET SQUARE, SOLVENT WELDING ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS BEFORE OVERLAYING THE EXISTING PAVEMENT OR PAVING THE NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS. IF YOU CAN NOT INSTALL THE LOOP TO DRAIN INTO THE J-BOX, DRILL FIVE 1/4" WEEP HOLES ON 1 FOOT CENTERS IN THE UNDERSIDE OF THE CONDUIT AT THE LOW SPOT.
5. YOU MAY INSTALL A LOOP TAIL IMMEDIATELY ADJACENT TO A LOOP AND OTHER LOOP TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY BEFORE SEALING THE LOOPS UNDER THE FINAL LIFT OF ASPHALT. PROVIDE THE ENGINEER A WRITTEN RECORD OF FIELD TESTING INCLUDING; CONTINUITY, INSULATION RESISTANCE AND INDUCTANCE TESTS AS REQUIRED IN SECTION 660-3.01(7) OF THE STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
7. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
8. WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, CUT THE PAVEMENT WITH A SAW AS FOLLOWS:
   A. REMOVE ALL PAVEMENT FROM THE LENGTH OF THE FIVE LOOP PRESENCE FIELDS.
   B. ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT.
   C. CUT TO WITHIN 1 FOOT OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS;
   D. REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHERE THERE ARE NO EDGE LINES;
   E. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE;
   F. CUT TRENCHES CROSSING A LANE A MINIMUM OF 3 FEET WIDE; AND
   G. CUT TRENCHES CROSSING A SHOULDER A MINIMUM 1 FOOT WIDE.
9. HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT BEFORE PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF-PROPELLED STEEL WHEELED ROLLER. FURNISH ASPHALT MIX THAT CONFORMS TO SECTION 401 OF THE SPECIFICATIONS, AND IS APPROVED BY THE ENGINEER.
10. MAINTAIN THE REPLACEMENT ASPHALT MIX ABOVE A TEMPERATURE OF 225°F UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THIS MINIMUM TEMPERATURE.
11. TO ESTABLISH DETECTOR REFERENCE LINE, LAYOUT A LINE PARALLEL TO THE CROSS STREET CENTER LINE, STARTING AT THE CURB RETURN TO THE RIGHT OF THE APPROACH.
12. ENSURE DEPTH OF BASE COURSE AT LOOP LOCATIONS IS A MINIMUM OF 4 INCHES. EXCAVATION AND INSTALLATION OF ADDITIONAL BASE COURSE NECESSARY TO MEET THIS REQUIREMENT IN EXISTING ROAD SECTIONS SHALL BE SUBSIDIARY TO TRAFFIC LOOP PAY ITEM.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOOP DETECTOR DETAILS

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/8/2022 4:02 PM	H6	ZH	KK	ZH

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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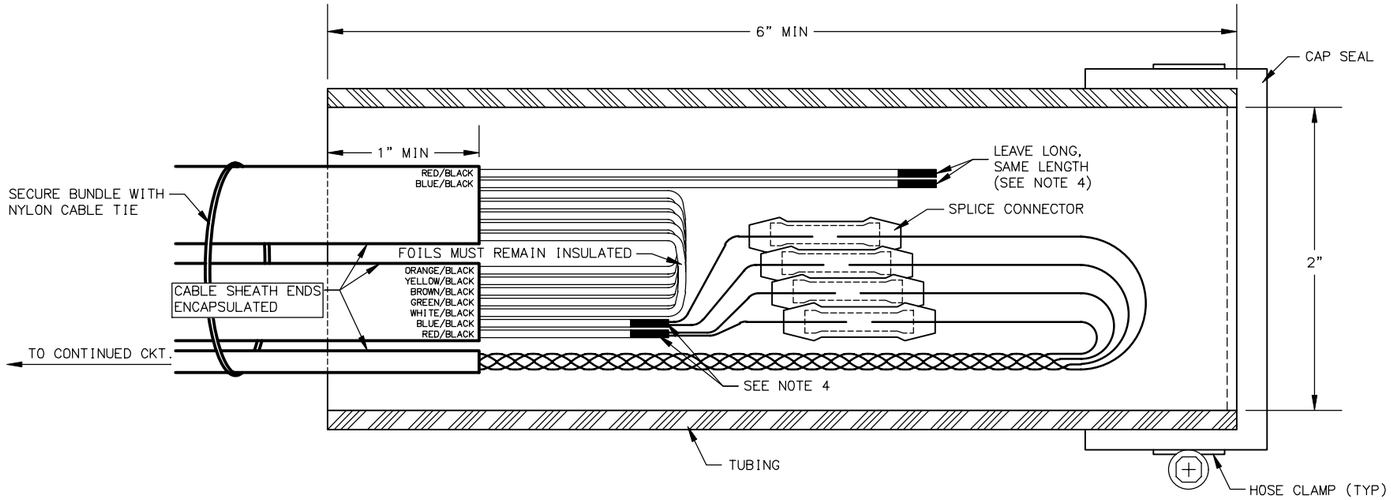
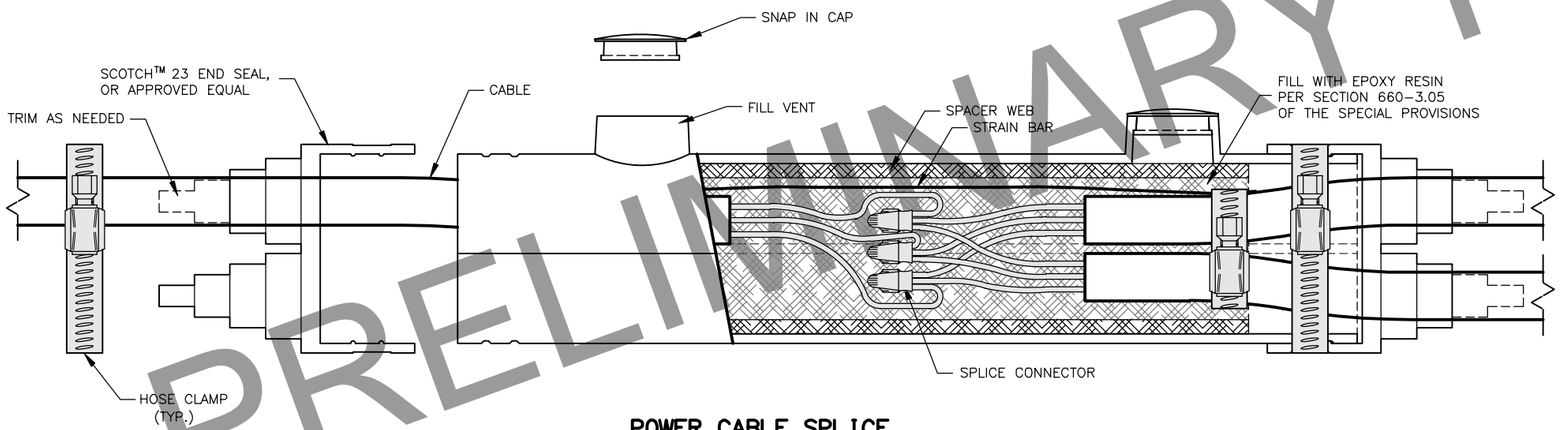
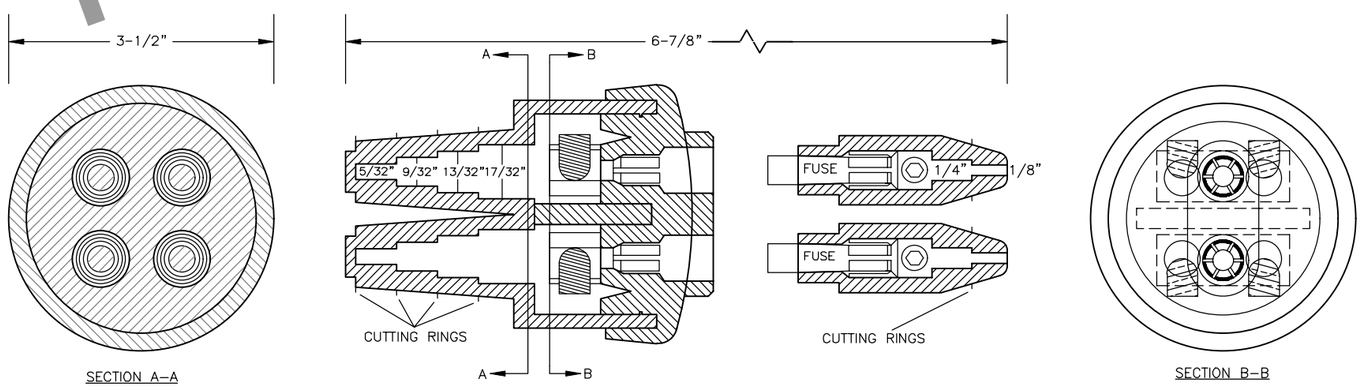


LOOP LEAD-IN SPLICE



POWER CABLE SPLICE



DOUBLE FUSED CONNECTOR

NOTES:

LOOP LEAD-IN SPLICE

1. FABRICATE LOOP LEAD-IN SPLICE IN THE FIELD AS SHOWN.
2. CAP SEAL ONE END AND COMPLETELY FILL OPEN END WITH RE-ENTERABLE ENCAPSULATION COMPOUND TO EDGE OF TUBING.
3. LEAVE A MINIMUM OF 1/2" CLEARANCE BETWEEN THE ENCLOSURE AND THE SPLICE AT BOTH ENDS OF THE TUBING.
4. EXPOSE FOIL AND DRAIN WIRES, SEAL WITH HEAT SHRINK TUBING (TYP).
5. INSTALL SPLICE CONNECTORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

POWER CABLE SPLICE

6. SECURE CABLE/CONNECTOR BUNDLE WITH HOSE CLAMPS AS SHOWN.

MATERIAL PROPERTIES

LOOP LEAD-IN SPLICE	
TUBING	PER SECTION 660-3.05
CAP SEAL	FERNCO QWIK CAP #QC-102, OR APPROVED EQUAL
HOSE CLAMP	STAINLESS STEEL
SPLICE CONNECTOR	ML56-16, OR APPROVED EQUAL
COMPOUND	RE-ENTERABLE ENCAPSULATION
POWER CABLE SPLICE	
SPLICE KIT	3M MODEL 78R, OR APPROVED EQUAL
SPLICE CONNECTOR	SCOTCHLOCK G, R, OR Y SPRING CONNECTOR, OR APPROVED EQUAL
HOSE CLAMP	(4)- STAINLESS STEEL
EPOXY RESIN	PER SECTION 660-3.05
DOUBLE FUSED CONNECTOR	
DOUBLE FUSED CONNECTOR	SEC-1791-DF-1, OR APPROVED EQUAL
FUSES	(2) - COMPATIBLE 10-AMP

STATE OF ALASKA
49TH
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APRIL 2022
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SPLICE DETAILS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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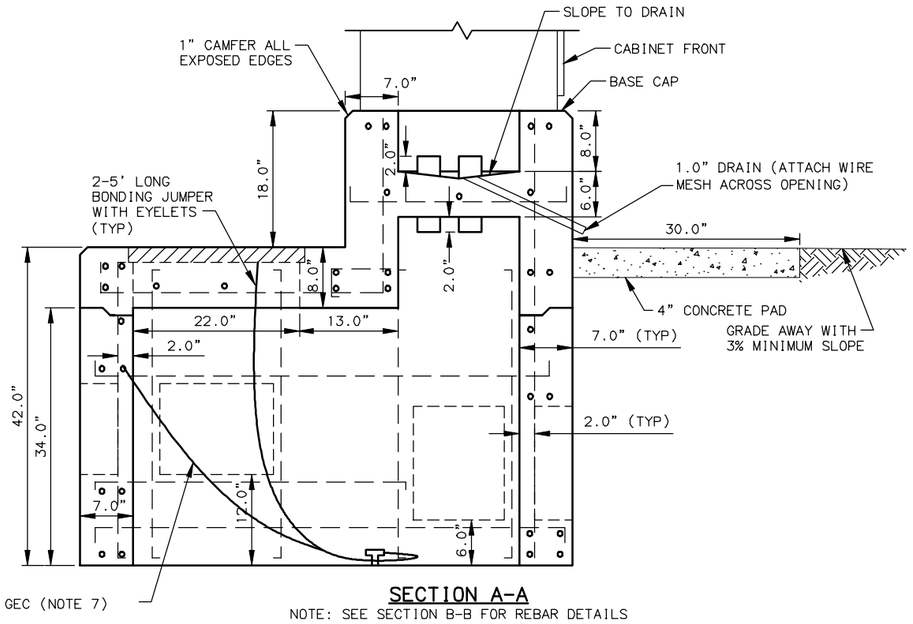
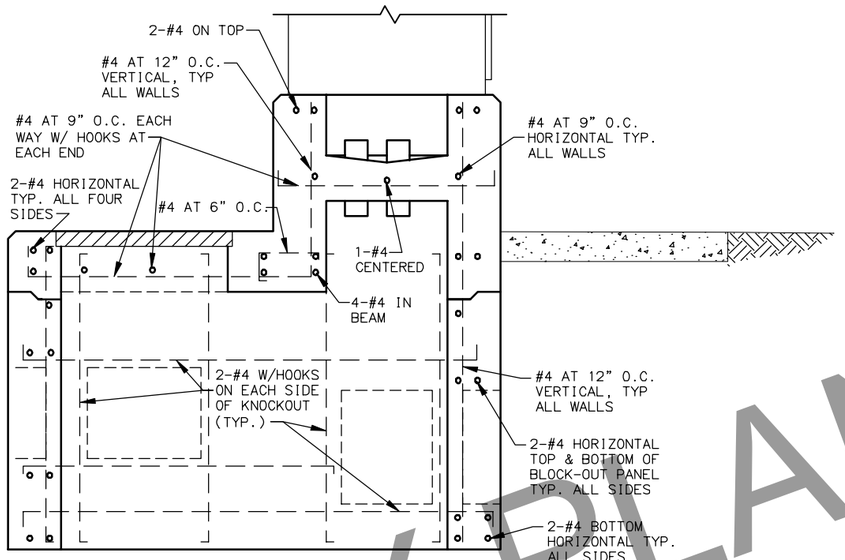


SECTION A-A

NOTE: SEE SECTION B-B FOR REBAR DETAILS

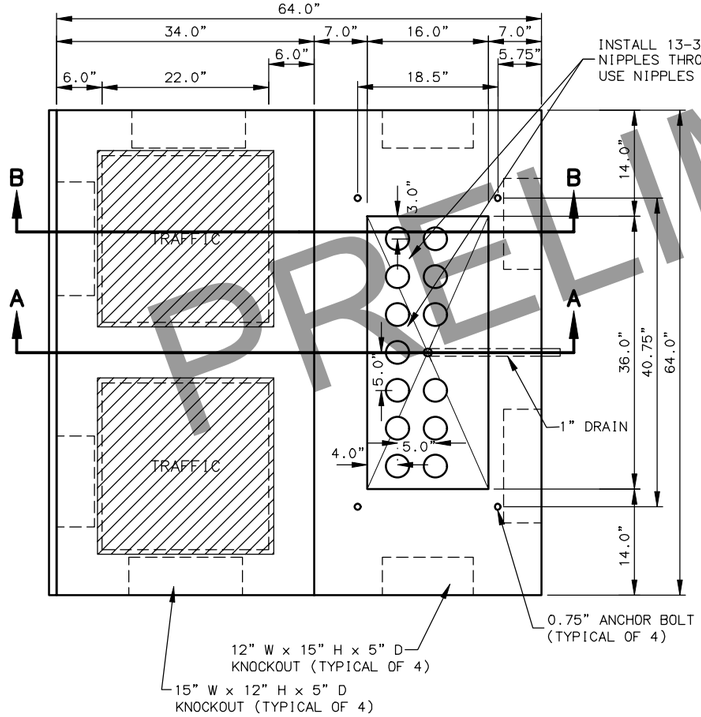


SECTION B-B

NOTE: SEE SECTION A-A FOR DIMENSIONAL DETAILS

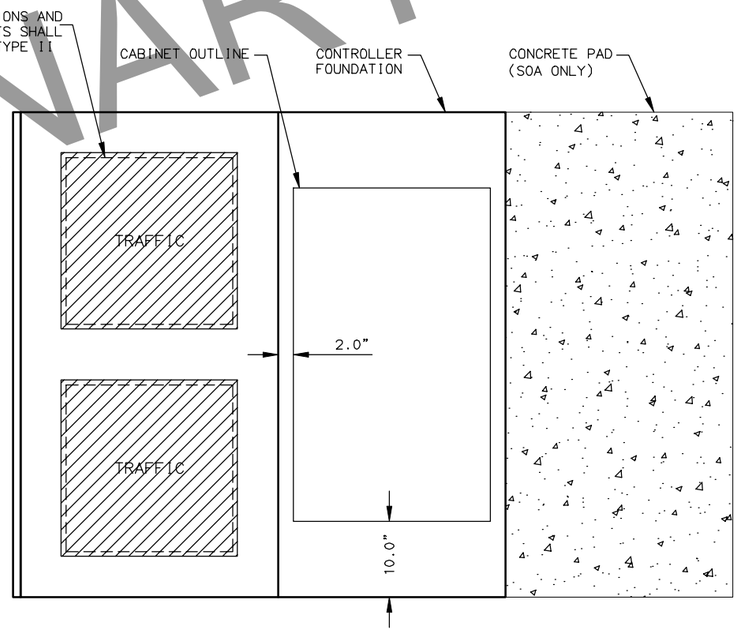
NOTES:

1. ANCHOR BOLTS SHALL NOT PROTRUDE MORE THAN 1.5" ABOVE THE TOP OF THE FOUNDATION. ANCHOR BOLT DIMENSIONS SHALL BE AS SPECIFIED BY THE CABINET MANUFACTURER.
2. SEAL UNUSED CONDUIT STUBS WITH WATERTIGHT CAPS. SEAL STUBS CARRYING CONDUCTORS WITH WATERTIGHT SEALING BUSHINGS DESIGNED TO SEAL AROUND CONDUCTORS AND AGAINST THE CONDUIT WALLS.
3. ROUTE THE FIVE FOOT COPPER GROUNDING JUMPER THROUGH THE 2" PIPE NIPPLE AND ATTACH IT TO THE GROUNDING BUSHING ON THE FEEDER CONDUIT.
4. STOP HORIZONTAL & VERTICAL STEEL AT THE BLOCK-OUT PANELS & THE JOINT USING 90 DEGREE HOOKS. USE 2 EXTRA #4 HORIZONTAL & VERTICAL BARS. ALL SIDES AS SHOWN.
5. INSTALL TRAFFIC CONTROLLER CABINET FOUNDATION WITHIN 1-DEGREE OF PLUMB AND ORIENTED AS SHOWN IN PLANS SUCH THAT CABINET DOOR OPENS AWAY FROM INTERSECTION/TRAFFIC.
6. FOR SIGNALS IN THE MUNICIPALITY OF ANCHORAGE (MOA) ORIENT CABINET DOOR TO FACE J-BOX LIDS AND DO NOT PROVIDE CONCRETE PAD.
7. INSTALL #6 AWG COPPER GROUNDING ELECTRODE CONDUCTOR (GEC), OR SIZE PER NEC TABLE 250.66, WHICHEVER IS LARGER.
8. THE REINFORCING BARS WITHIN THE CONCRETE FOUNDATION MUST BE CONNECTED TOGETHER BY EFFECTIVE MEANS AND WILL BECOME PART OF THE GROUNDING ELECTRODE SYSTEM PER NEC 250.50 AND 250.52(A)(3). INSTALL AN IRREVERSIBLE COMPRESSION GROUNDING CONNECTOR, NRTL-LISTED FOR DIRECT BURIAL IN EARTH AND CONCRETE, TO CONNECT THE REINFORCING BARS TO THE GEC. INSTALL A COPPER GEC, SIZED PER NEC 250.66 BUT NOT SMALLER THAN #6 AWG, BETWEEN THE COMPRESSION CONNECTOR AND THE CONTROLLER CABINET GROUND BUS.



SIZE 6 OR 7 CONTROLLER CABINET FOUNDATION

NOTE: BOLT SPACING DIMENSIONS SHOWN FOR TS2 CONTROLLER CABINETS.



PLAN VIEW

MATERIAL PROPERTIES		
CONCRETE	CLASS A	F'c = 4000 psi
REINFORCING STEEL	AASHTO M31 GRADE 60	Fy = 60 ksi
CONDUIT	RMC	
BONDING JUMPERS	3M-25T BBE6 OR EQUAL	

STATE OF ALASKA
49TH
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DOWL, LLC
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TS2 CONTROLLER CABINET FOUNDATION DETAILS

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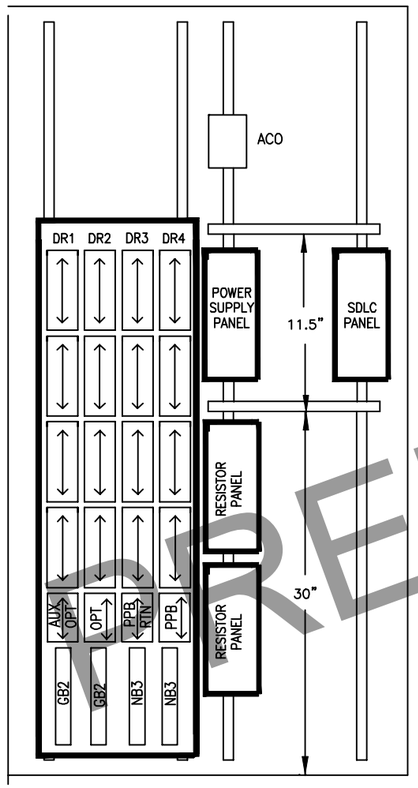
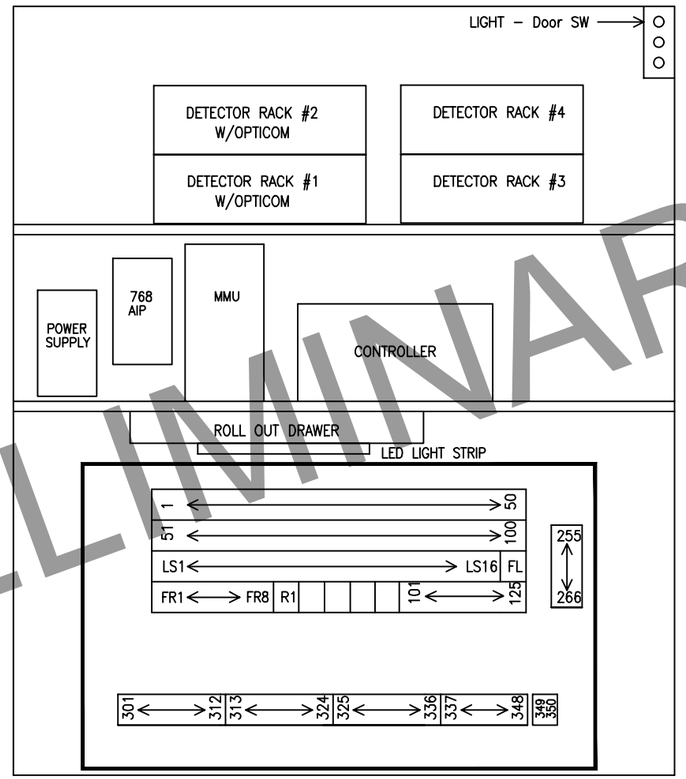
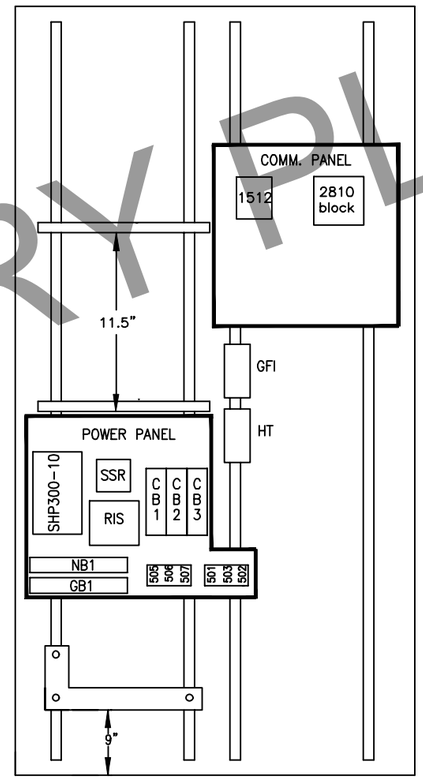
ALASKA	0537008/CFHWY00012	2022	H9	H39

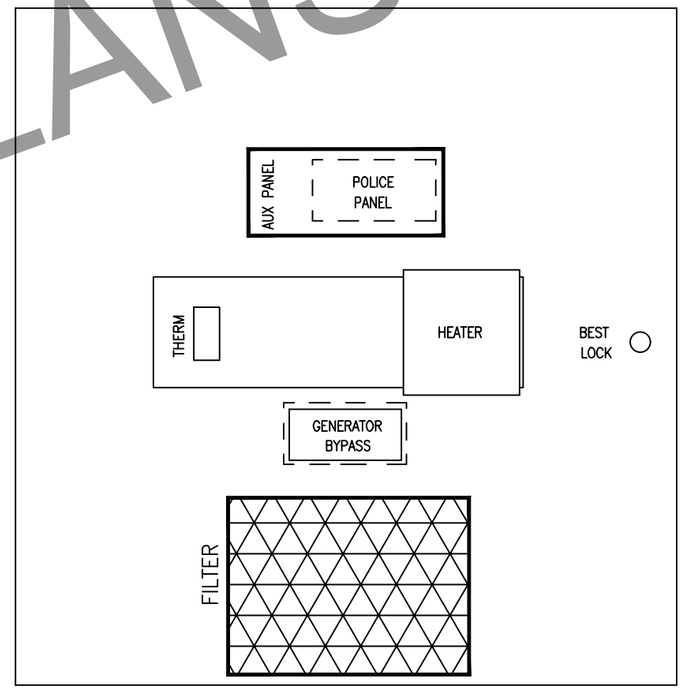
LED LIGHT STRIP THERM FAN

MOA TS2-1 CONTROLLER CABINET with Generator Bypass LAYOUT









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ANCHORAGE, AK 99503
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

MOA TS2 CONTROLLER
CABINET DETAILS

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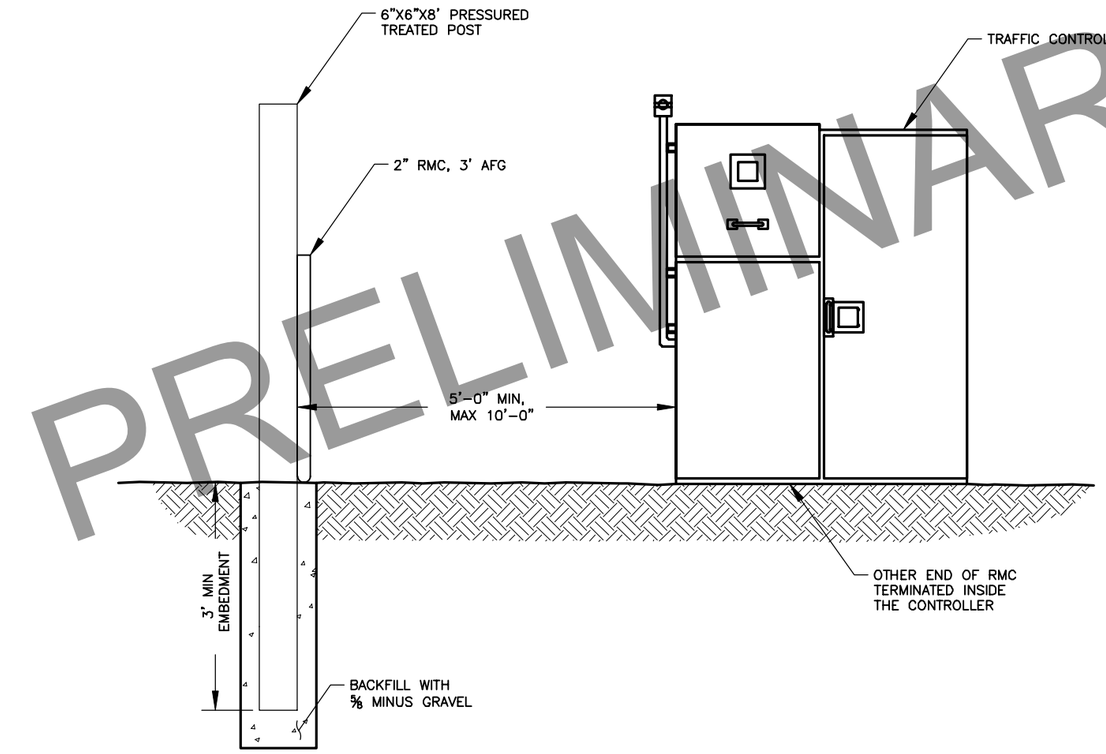

FUTURE COMMUNICATION CONDUIT TERMINATION

NOT TO SCALE

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

COMMUNICATION CONDUIT TERMINATION

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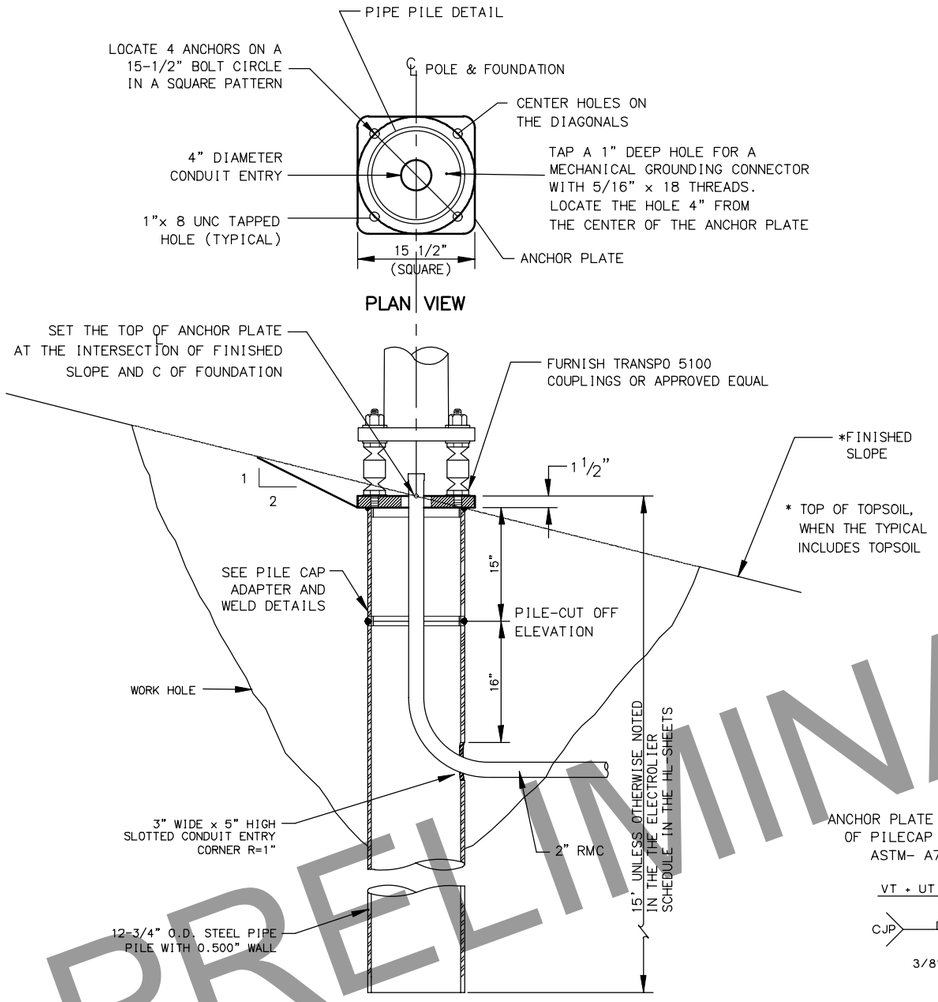
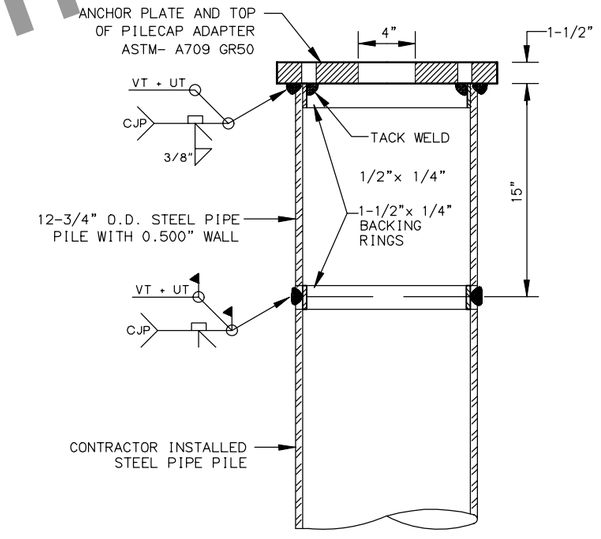
ALASKA	0537008/CFHWY00012	2022	H11	H39



PIPE PILE FOUNDATION

(SHOWN WITH FRANGIBLE COUPLINGS)



PILECAP ADAPTER AND WELD DETAILS

N.T.S.

DESIGN NOTES:

1. DESIGN STANDARD: 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS WITH SEPTEMBER 2013 ERRATA AND 2015 INTERIM REVISIONS.
2. DESIGN LOADS: 5-KIPS AXIAL, 7.5-KIPS SHEAR, 40-KIP-FT MOMENT.
3. GALVANIZATION OF PILE IS NOT REQUIRED. UNLESS THE GROUND WATER TABLE IS FOUND TO BE, ABOVE 5 FEET, THEN GALVANIZE PILE ACCORDING TO SECTION 505. PILES REQUIRING GALVANIZATION ARE NOTED IN THE ELECTROLIER SCHEDULE IN THE HL-SHEETS AND TO BE VERIFIED BY THE CONTRACTOR.
4. CHARPY TEST FOR ELECTROLIER POLE PILE FOUNDATIONS ARE NOT REQUIRED.

MATERIAL REQUIREMENTS		
STRUCTURAL STEEL PLATE	ASTM A709 GRADE 50	Fy = 50 ksi
STEEL PIPE PILE	ASTM A709, GRADE 50 T3	Fy = 50 ksi
	API 5L GRADE X 52	Fy = 52 ksi

NOTES:

1. FURNISH STEEL PIPE PILES THAT CONFORM TO THE MATERIAL REQUIREMENTS AND SECTION 660, 715 AND 740 OF THE SPECIFICATIONS. NO SPLICES ARE ALLOWED BELOW THE PILECAP ADAPTER.
2. DRIVE PILES OPEN ENDED. COMPLETE PILE WORK ACCORDING TO SECTIONS 505, 660 AND 715 OF THE SPECIFICATIONS. REMOVE AND REINSTALL PILES OUT OF PLUMB MORE THAN 1:48.
3. FRESH HEAD THE TOP OF PILES IN A LEVEL PLANE AND CUT THE CONDUIT ENTRANCE HOLE AFTER DRIVING THE PILE. NOTE; ONLY MECHANICAL OR PLASMA CUTTER MEANS ARE PERMITTED. OXY-FUEL CUTTING IS PROHIBITED.
4. FURNISH ONLY SHOP FABRICATED PILECAP ADAPTERS. INCLUDE STAMPED ENGINEERING CALCULATIONS, DRAWINGS, MILL CERTIFICATIONS AND WELDING PLANS FOR PILECAP ADAPTERS AND THE PILECAP ADAPTER TO PILE WELD. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AWS D1.1, STRUCTURAL WELDING CODE-STEEL AND THE SPECIFICATIONS.
5. WAIT AT LEAST 3 DAYS AFTER BACKFILLING THE WORK HOLE BEFORE ERECTING THE LUMINAIRE POLE.
6. TERMINATE CONDUIT(S) 3" ABOVE THE TOP OF THE ANCHOR PLATE. INSTALL A GROUNDING BUSHING ON THE END OF THE RIGID METAL CONDUIT AND ESTABLISH A BOND WITH THE ANCHOR PLATE.

STATE OF ALASKA
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DOWL, LLC
4041 B STREET
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SOA ELECTROLIER PIPE PILE FOUNDATION AND BREAKAWAY SUPPORT DETAILS

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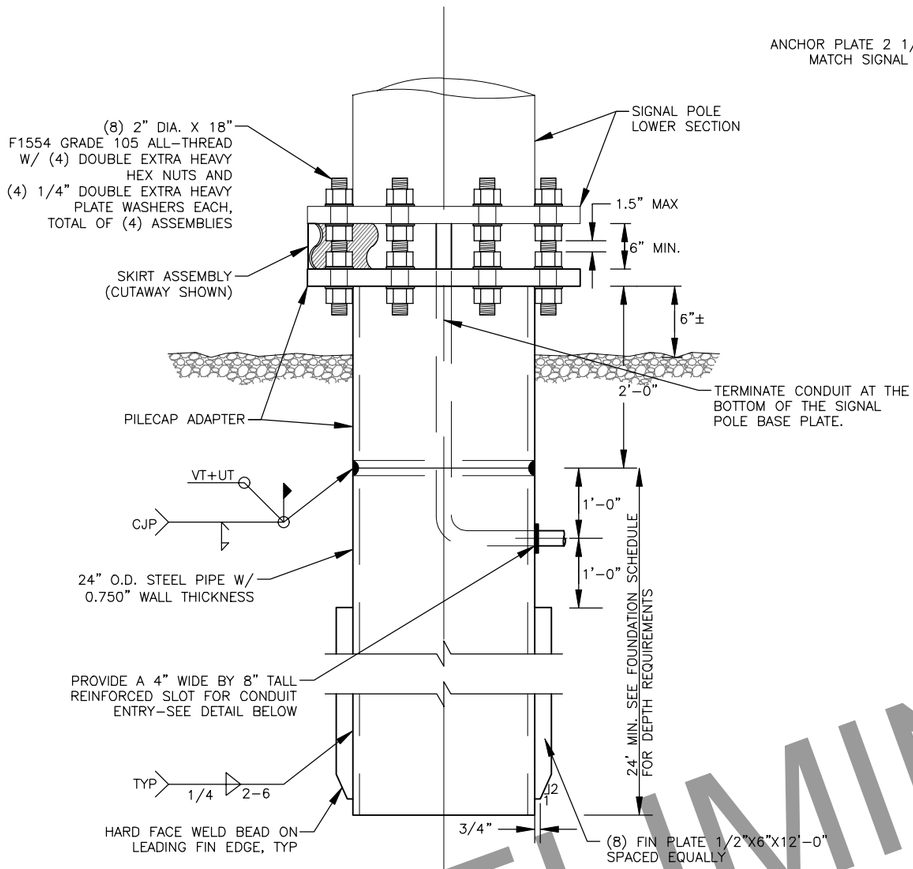

FOUNDATION DETAIL
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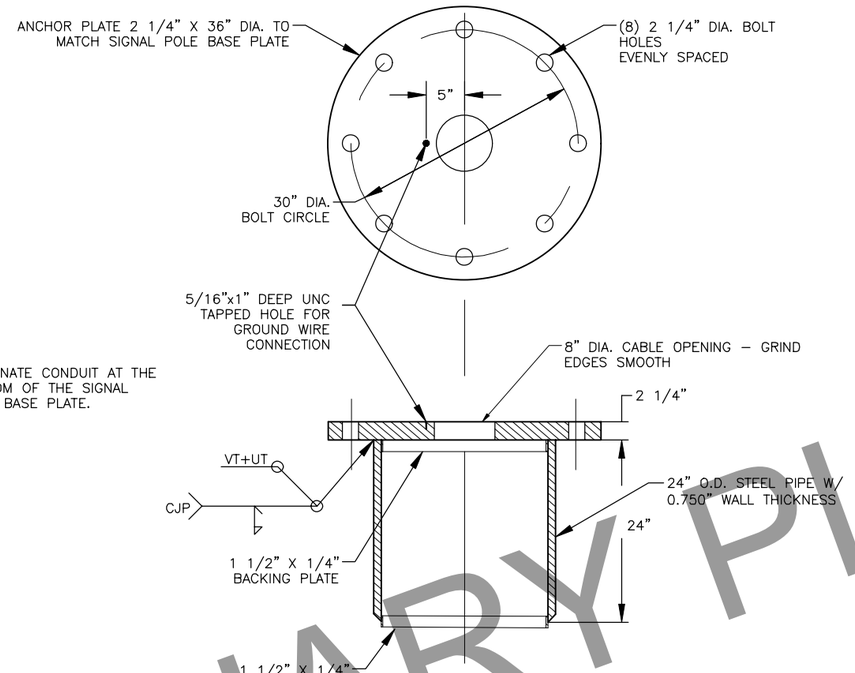
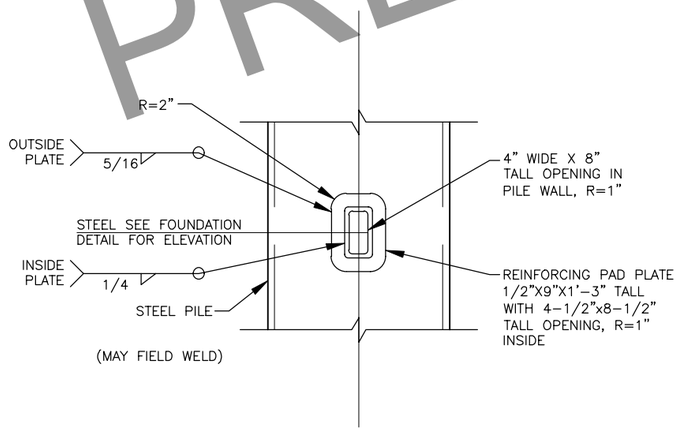
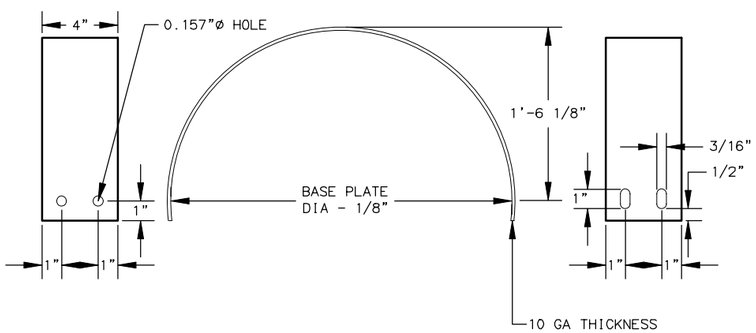


PILE CAP ADAPTER DETAIL
N.T.S.

NOTE: TACK WELD BACKING PLATE TO PIPE PILE SECTION



CONDUIT OPENING DETAIL
N.T.S.



SKIRT DETAIL
N.T.S.

(TWO REQUIRED PER POLE)

DESIGN NOTES

1. DESIGN STANDARD: 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS WITH SEPTEMBER 2013 ERRATA AND 2015 INTERIM REVISIONS.
2. DESIGN LOADS: 6,500 LBS SHEAR, 175 KIP-FIT MOMENT AND 6,500 LBS AXIAL.
3. CHARPY TEST FOR SIGNAL POLE PILE FOUNDATIONS ARE NOT REQUIRED.

NOTES

1. DRIVE ALL PILES OPEN ENDED WITH FLUSH MOUNTED, HARDENED DRIVING SHOES. COMPLETE PILE DRIVING WORK IN ACCORDANCE WITH SECTIONS 505, 660 AND 715 OF THE STANDARD SPECIFICATIONS. INSTALLED PILE TO BE WITHIN 1:48 OF PLUMB. PILES OUT OF PLUMB MUST BE REMOVED AND REINSTALLED. CUT OF PILE TO ACHIEVE PROPER ELEVATION. THE RESULTING BUT JOINT ALIGNMENT SHALL MEET THE REQUIREMENTS OF AWS D1.1.
2. PILE MANUFACTURER TO PROVIDE THE REQUIRED PILE CAP ADAPTER, ADAPTER IS TO BE SHOP FABRICATED. HOT DIP GALVANIZE THE ADAPTER TO WITHIN 3 INCHES OF THE TOE. DELIVER THE ADAPTER WITH ALL FASTENERS AND HARDWARE.
3. MACHINE OR PLASMA CUT ANY PENETRATION IN THE ADAPTER OR PILE. ALL PENETRATIONS OF THE PILE AND/OR ADAPTER SHALL BE SMOOTH.
4. ALL WELDS TO BE SIZED BY THE MANUFACTURER UNLESS INDICATED. BOTH SHOP AND FIELD CJP WELDS TO BE 100% VISUALLY (VT) AND ULTRASONICALLY (UT) TESTED. SUBMIT WRITTEN RECORDS OF TESTS TO THE PROJECT ENGINEER.
5. MANUFACTURE THE ADAPTER TOP PLATE AND COMPONENTS FROM STEEL MEETING THE REQUIREMENTS OF ASTM A6. THE PERMISSIBLE BOW AND SWEEP OF THE ADAPTER TOP PLATE IS LIMITED TO 1/32". PLATE SHALL BE FLATTENED IN THE SHOP PRIOR TO FIT-UP AND WELDING IN THE SHOP. PRIOR TO HOT DIP GALVANIZING, BURRS AND IMPERFECTIONS SHALL BE REMOVED BY GRINDING OR MACHINING FOR ANY MATERIALS AND OR ASSEMBLIES NOT MEETING THESE REQUIREMENTS.
6. HOT DIP GALVANIZE THE PILE TO WITHIN 3 INCHES OF THE TOP OF THE PILE PER AASHTO M111.
7. CONNECT THE GROUND WIRE TO THE PIPE PILE ON THE INSIDE. GROUND WIRE SHALL BE BARE SOLID, STRANDED OR BRAIDED COPPER.
8. INSTALL THE PILE CAP ADAPTER TO WITHIN 1:48 OF PLUMB.
9. PROVIDE ANCHOR ROD MATERIAL MEETING THE REQUIREMENTS SHOWN ON THE DETAIL AND AS LISTED IN THE MATERIAL PROPERTIES TABLE. ANCHOR RODS TO BE SNUG-TIGHT TO THE POLE BASE PLATE AND PILE CAP ADAPTER TOP PLATE.
10. AFTER THE FIELD WELDING, ELECTRICAL CONDUIT AND ELECTRICAL CONDUCTOR WORK IS COMPLETE, BACKFILL AND COMPACT SOIL AROUND THE INSTALLED PILE IN ACCORDANCE WITH SECTION 205, SUBSECTIONS 203-3.04, 660-3.01 AND 660-3.02 OF THE SPECIFICATIONS. USE SELECT TYPE A MATERIAL ONLY AS BACKFILL.
11. SEE ALASKA STANDARD PLANS FOR ADDITIONAL SIGNAL POLE DETAILS NOT SHOWN HERE.

MATERIAL PROPERTIES

ITEM	STANDARD	RATING
ANCHOR RODS, 2" X 22.5"	ASTM F1554	GRADE 105
FASTENERS, WASHERS	AASHTO M270	GRADE 36
FASTENERS, NUTS	AASHTO M292	
ANCHOR PLATE & BASE PLATE	AASTHO M270 F3	GRADE 50
PIPE PILE	ASTM A709 T3	GRADE 50
FINISH, PIPE PILE AND ADAPTER	AASHTO M111	
FINISH, ANCHOR ROD AND FASTENERS	AASHTO M232	
GROUND WIRE		#4 AWG

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL POLE PIPE PILE FOUNDATION DETAILS

DATE/TIME 4/8/2022 4:03 PM | LAYOUT H12 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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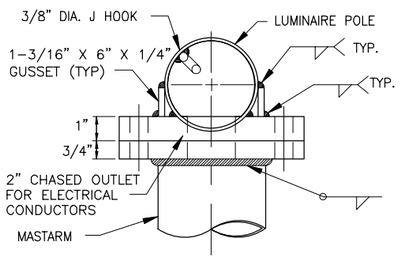
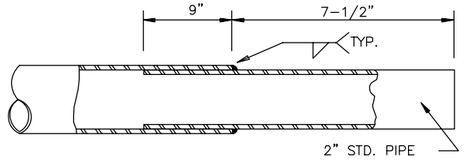
NO.	DATE	REVISION

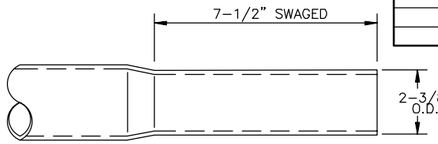
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H13	H39



TOP VIEW



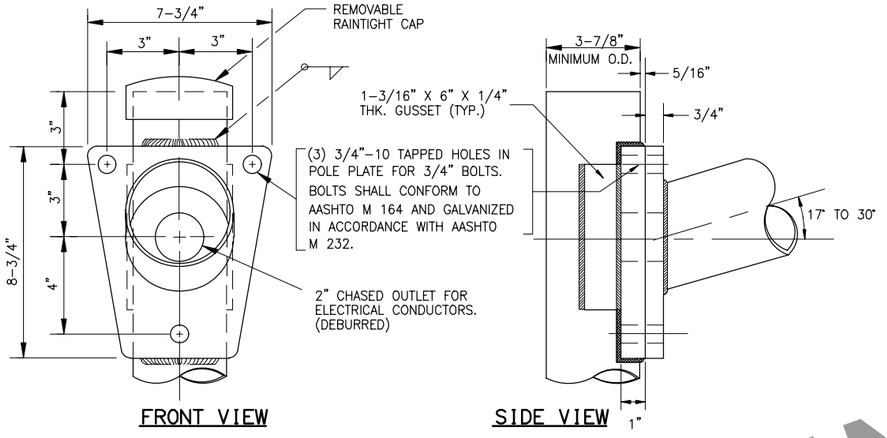
TENON



OPTIONAL SWAGED TENON

END OF MASTARM DETAIL

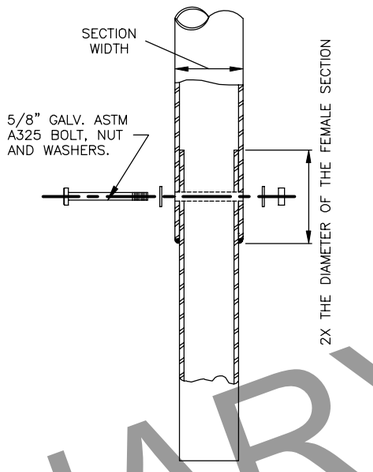
NTS



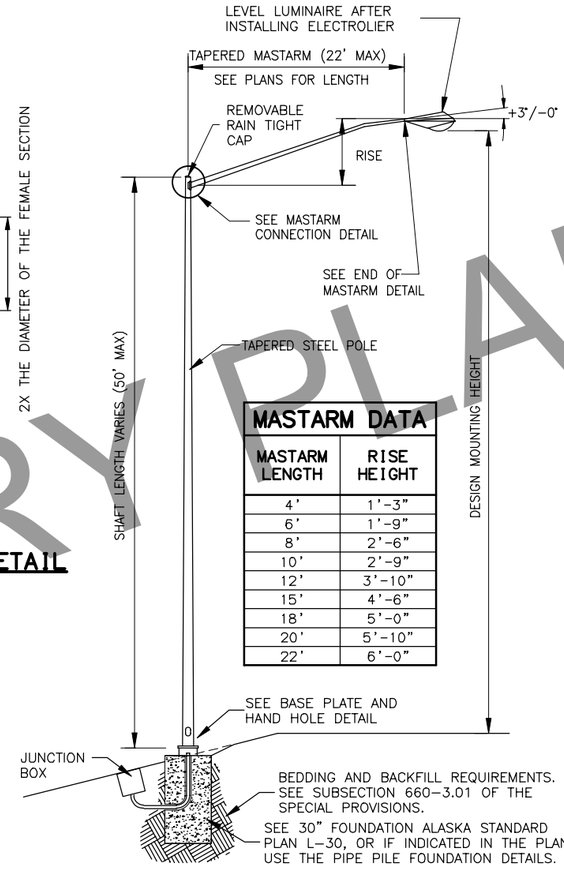
FRONT VIEW

SIDE VIEW

MASTARM CONNECTION DETAIL



POLE CONNECTION DETAIL



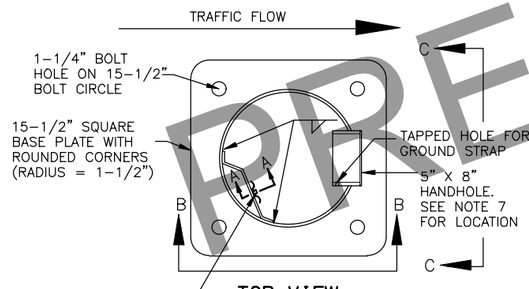
ELECTROLIER ELEVATION

MASTARM DATA

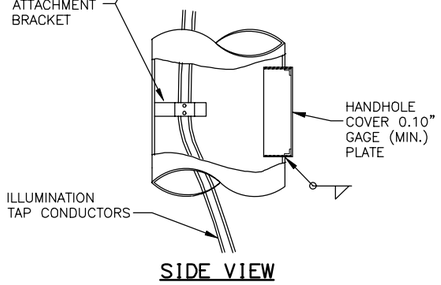
MASTARM LENGTH	RISE HEIGHT
4'	1'-3"
6'	1'-9"
8'	2'-6"
10'	2'-9"
12'	3'-10"
15'	4'-6"
18'	5'-0"
20'	5'-10"
22'	6'-0"

NOTES:

1. DESIGN AND FABRICATE ALL SHAFTS TO SUPPORT A MASTARM 22 FEET LONG WITH LUMINAIRE. ASSUME EACH LUMINAIRE WEIGHS 55 POUNDS AND HAS AN EFFECTIVE PROJECTED AREA OF 1.2 SQUARE FEET. WITH THIS DEAD LOAD, LIMIT THE ANGULAR ROTATION TO THE POLE TOP 1°40'0" MAXIMUM.
2. WELD SIZE TO BE DETERMINED BY THE MANUFACTURER.
3. MOUNTING HEIGHT, IF SPECIFIED IN THE PLANS, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER SLOPE AND/OR OFFSET VARIES.
4. MINIMUM OUTSIDE DIAMETER AT THE TOP OF POLE EQUALS 3-7/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF THE POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.14" PER FOOT.
5. APPLY AN ANTI-SEIZING COMPOUND TO ALL THREADED SURFACES, INCLUDING THOSE IN THE ANCHOR PLATE AND ON THE COUPLINGS.
6. MASTARM RISE MAY VARY ±6" FROM THE VALUES LISTED IN THE TABLE.
7. LOCATE THE HANDHOLD AT 90 DEGREES TO THE MASTARM ON THE SIDE OF POLE DOWNSTREAM FROM TRAFFIC FLOW.
8. FURNISH ALL POLES WITH A J-HOOK TO SUPPORT THE ILLUMINATION TAP CONDUCTORS. FURNISH ALL MASTARM POLES WITH A REMOVABLE RAIN TIGHT CAP.
9. MOUNT LIGHTING STANDARDS UPON TRANSPO MODEL NO. 5100 FRANGIBLE COUPLINGS AND TRANSPO TYPE B FEMALE ANCHORS, OR APPROVED EQUAL.
10. INSTALL ALL COMPONENTS OF THE BREAKAWAY SUPPORT SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. FABRICATE THE SKIRT FROM FOUR PIECES OF 1/16" THICK 3003 H-14 ALUMINUM SHEET. BEND EACH PLATE TO PROVIDE CORNERS WITH A 3/4" RADIUS. ASSEMBLE THE SKIRT WITH #10 X 3/8" SELF TAPPING STAINLESS SCREWS OR POP RIVETS. THE ASSEMBLED SKIRT MEASURES ABOUT 12-3/4" SQUARE.
12. A JUNCTION BOX IS REQUIRED AT EACH NEW ELECTROLIER. INSTALL THE JUNCTION BOX IMMEDIATELY BEHIND THE FOUNDATION APPROXIMATELY 7' FROM POLE UNLESS OTHERWISE SPECIFIED IN THE PLANS.
13. DESIGN STANDARD: 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS WITH SEPTEMBER 2013 ERRATA AND 2015 INTERIM REVISIONS.

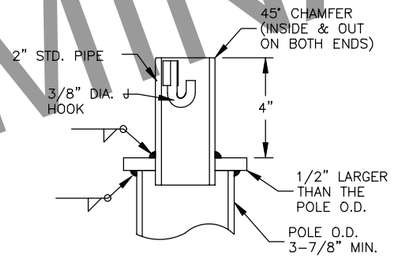


TOP VIEW



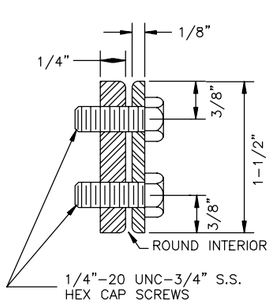
SIDE VIEW

BASE PLATE AND HAND HOLE DETAIL

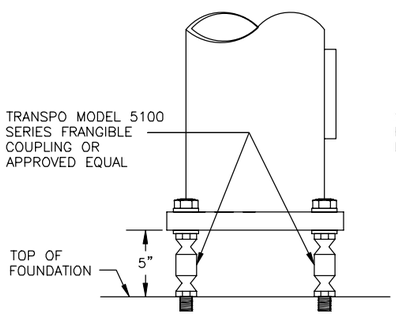


OFFSET LIGHTING STANDARD POLE TOP DETAIL

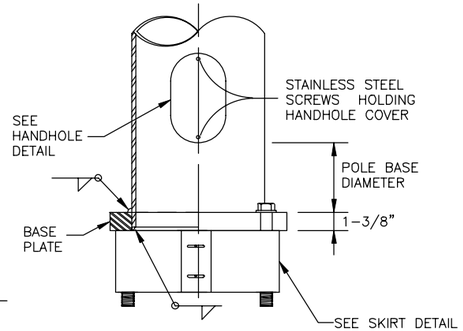
(CUTAWAY FOR CLARITY)



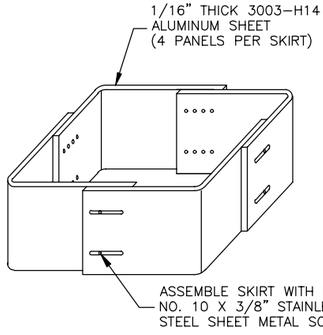
SECTION A-A



VIEW B-B



VIEW C-C



SKIRT DETAIL

STATE OF ALASKA
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DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SOA LIGHTING STANDARD 1 DETAILS

FILE: C:_DOWL_PW\D0391306\SC-CT-SG-H-62153.DWG
DATE/TIME: 4/8/2022 4:03 PM
LAYOUT: H13
DESIGNED: ZH
CHECKED: KK
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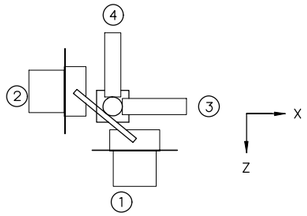
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H14	H39



PLAN VIEW
NTS

FIXED DESIGN ELEMENTS

ALL ASSEMBLIES	
LENGTH	16'(TYP, MAY VARY IN PLANS)
FIXED END DIAMETER O.D.	10.0"
TAPER	0.14" /FT
TUBE THICKNESS	7 GA.
HAND-HOLE O.D.	5.63" X 7.31"
BASE PLATE	15.5" X 15.5" X 1.375"
BOLT CIRCLE	15.5"
FRANGIBLE BASE	MODEL 5100 POLE SAFE OR APPROVED EQUAL

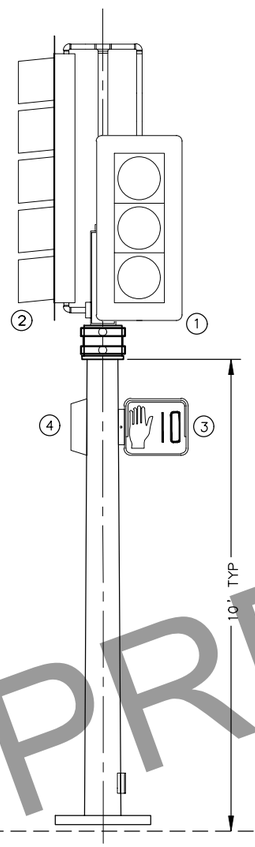
MATERIAL PROPERTIES	
TUBE	ASTM A572 GR. 55
BASEPLATE	AASHTO M270 F3, GR 50
TOP PLATE	ASTM A36
HANDHOLE REINFORCEMENT	ASTM A53, GR. B
FINISH	AASHTO M111 & M232

POLE DESIGN LOADING

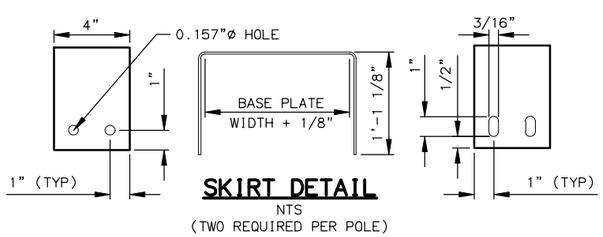
LOAD COMPONENT	EFFECTIVE AREA SQ. FT.	WEIGHT LBS.
1 = SIGNAL	7	60
2 = SIGNAL	11	100
3 = PED HEAD	2.5	25
4 = PED HEAD	2.5	25

NOTES:

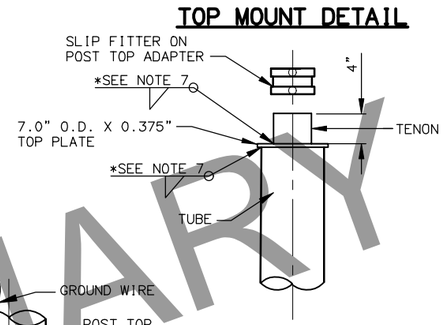
1. DESIGN POLE ASSEMBLIES TO THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS WITH SEPTEMBER 2013 ERRATA AND 2015 INTERIM REVISIONS. THE ALASKA STANDARD SPECIFICATIONS, STANDARD MODIFICATIONS, SPECIAL PROVISIONS AND THESE PLANS. DESIGN FOR A BASIC WIND SPEED OF 100 MPH, FATIGUE CATEGORY II.
2. POLES SHALL BE DESIGNED AND FABRICATED TO INCORPORATE ALL FIXED DESIGN ELEMENTS.
3. DESIGN AND FABRICATE TUBES FROM ONE PIECE OF TAPERED STEEL.
4. STEEL GREATER THAN 1/2" THICK SHALL CONFORM TO AASHTO M270 AND SHALL MEET THE FRACTURE CRITICAL CHARPY V-NOTCH IMPACT TEST REQUIREMENTS FOR ZONE 3.
5. INSTALL A 0.625" THICK 3003-H14 ALUMINUM SHEET SKIRT AROUND THE FRANGIBLE COUPLINGS FASTENED WITH STAINLESS SHEET METAL SCREWS.
6. THE DEPARTMENT WILL REJECT DAMAGED OR DEFECTIVE POLES FOR ANY OF THE FOLLOWING, INCLUDING BUT NOT LIMITED TO;
   A. VARIANCES FROM APPROVED SHOP DRAWINGS.
   B. VARIANCES FROM FIXED DESIGN ELEMENTS.
   C. OUT OF ROUND. SECTIONS ARE OUT OF ROUND WHEN THE DIAMETERS OF ROUND MEMBERS EXCEED 2 PERCENT OF THE DIMENSION SPECIFIED ON THE SHOP DRAWINGS.
   D. BOWED WITH SWEEPS EXCEEDING 0.75" INCH THROUGHOUT THE LENGTH OF THE POLE, MASTARM, OR SEGMENT.
   E. DAMAGED OR DENTED FINISHES.
7. WELD SIZE TO BE DETERMINED BY MANUFACTURER.
8. PROVIDE PERMANENT TAGS PER SECTION 740 TABLE 740-1 OF THE SPECIFICATIONS.
9. THIS DRAWING IS INTENDED FOR POLE DESIGN PURPOSES ONLY. ASSEMBLY CONFIGURATIONS ARE FOR LOADING PURPOSES AND MAY DIFFER FROM THOSE SHOWN IN PLANS. POLES HAVE NOT BEEN EVALUATED FOR LOADING CONDITIONS MORE SEVERE THAN THOSE SHOWN AND WILL REQUIRE INDIVIDUAL ANALYSIS WHEN ENCOUNTERED.



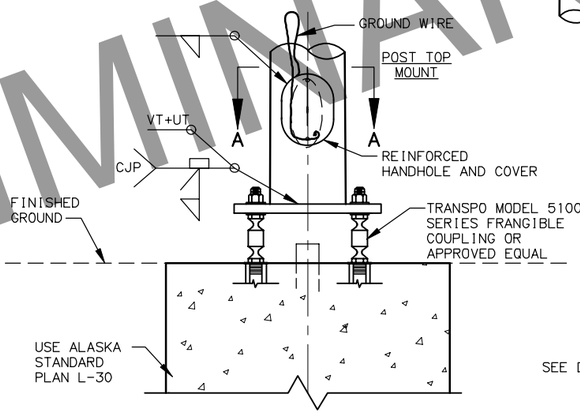
ELEVATION VIEW
NTS



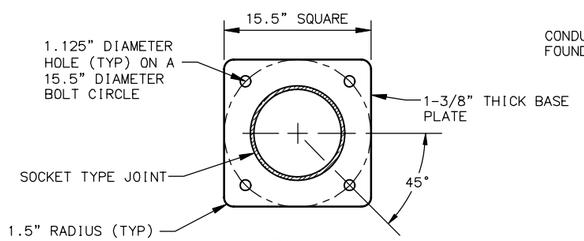
SKIRT DETAIL
NTS
(TWO REQUIRED PER POLE)



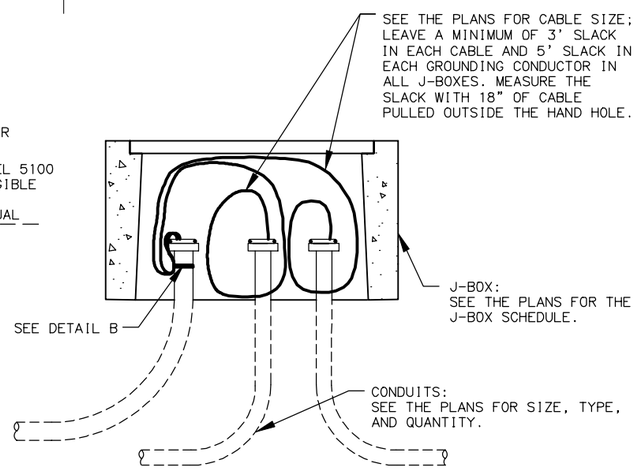
TOP MOUNT DETAIL

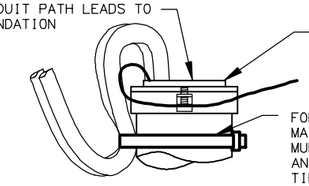


SIGNAL POST AND BASE
NTS

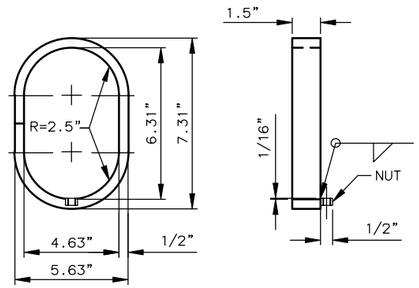


VIEW A-A
PLAN VIEW OF BASE PLATE
NTS





DETAIL B



HANDHOLE DETAIL
NTS

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

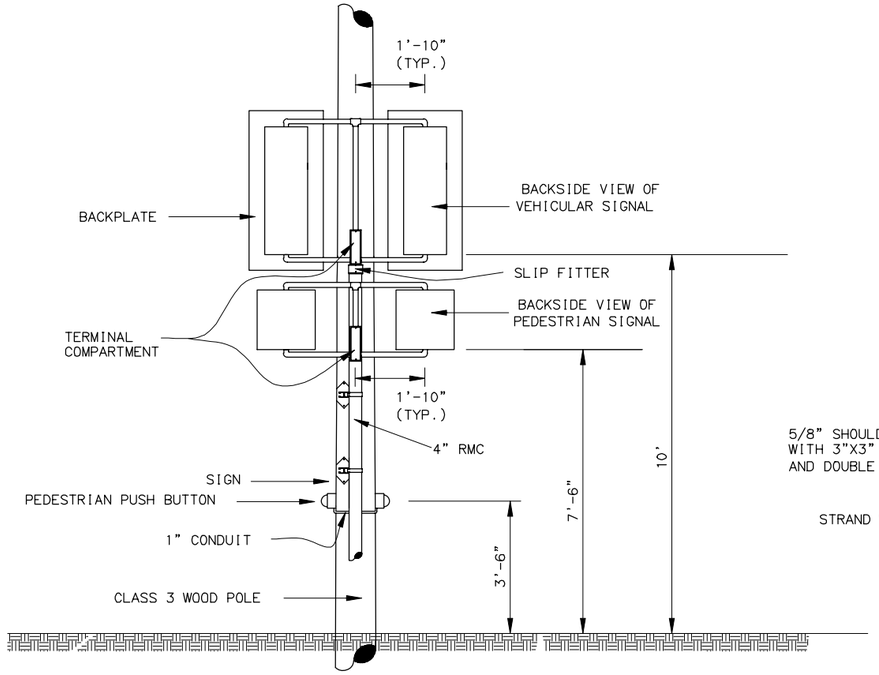
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BREAKAWAY TRAFFIC SIGNAL POLE DETAILS

DESIGNED ZH | DRAFTED ZH | CHECKED KK | LAYOUT H14 | DATE/TIME 4/8/2022 4:04 PM | FILE C:\DOWL_PW\D0391306\SC-CT-SG-H-62153.DWG

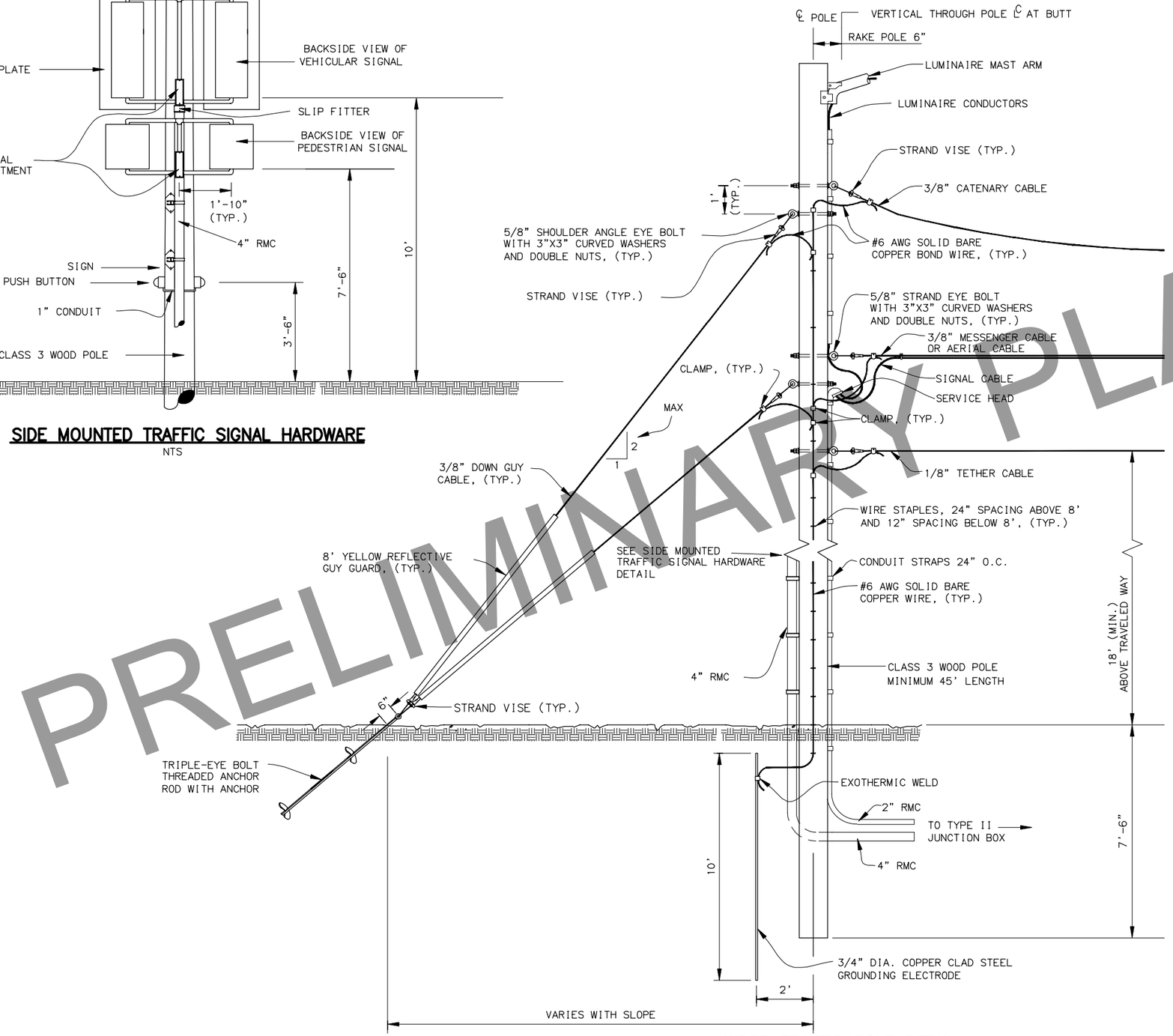
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H15	H39



SIDE MOUNTED TRAFFIC SIGNAL HARDWARE

NTS



WOOD TRAFFIC POLE DETAIL

NTS

(SINGLE SPAN ATTACHMENT SHOWN)

NOTES:

1. ATTACH A 4 INCH RIGID METAL CONDUIT TO THE WOOD POLE, USING UNISTRUT P9014 WITH P4101 CHANNEL, AND P1121 PIPE CLAMPS, OR APPROVED EQUAL.
2. INSTALL THE 4 INCH CONDUIT ON THE SIDE OF THE POLE AT A LOCATION WHERE A LINE PARALLEL TO THE LONG CORD (P.C. TO P.T.) OF THE RADIUS IS TANGENT TO THE POLE, AS SHOWN IN ALASKA STANDARD PLAN T-30 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR TERMINAL COMPARTMENT LOCATIONS.
3. USE POST TOP SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE VEHICULAR SIGNAL HEADS ON TOP OF THE 4 INCH CONDUIT.
4. USE SIDE MOUNTED SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE PEDESTRIAN SIGNAL HEADS ON THE 4 INCH CONDUIT.
5. THE VERTICAL CLEARANCES SHOWN ARE FROM THE WALKING SURFACE FOR THE PEDESTRIAN GEAR AND THE TRAVELED WAY FOR THE VEHICULAR SIGNALS.
6. TERMINATE POLES WITH NO LUMINAIRE A MINIMUM OF 2 FEET ABOVE THE CATENARY CABLE CONNECTION.
7. SEE ALASKA STANDARD PLAN T-30 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR ADDITIONAL TRAFFIC SIGNAL HARDWARE DETAILS.
8. ALL 3/8 INCH SPAN AND GUY CABLE SHALL BE HEAVY DUTY (HD) STEEL WITH MINIMUM 9,700 LB BREAKING STRENGTH. ALL OTHER CABLES SHALL ALSO BE HD RATED.
9. GUY ANCHOR SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. SOIL CLASSIFICATION SHALL BE USED TO DETERMINE ANCHOR SIZE, FOLLOW MANUFACTURE GUIDELINES AND CONFIRM SOIL CLASSIFICATION WITH ENGINEER PRIOR TO ANCHOR SELECTION.

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TEMPORARY WOOD SIGNAL POLE DETAILS UNDERGROUND SERVICE

DATE/TIME 4/8/2022 4:04 PM | LAYOUT H15 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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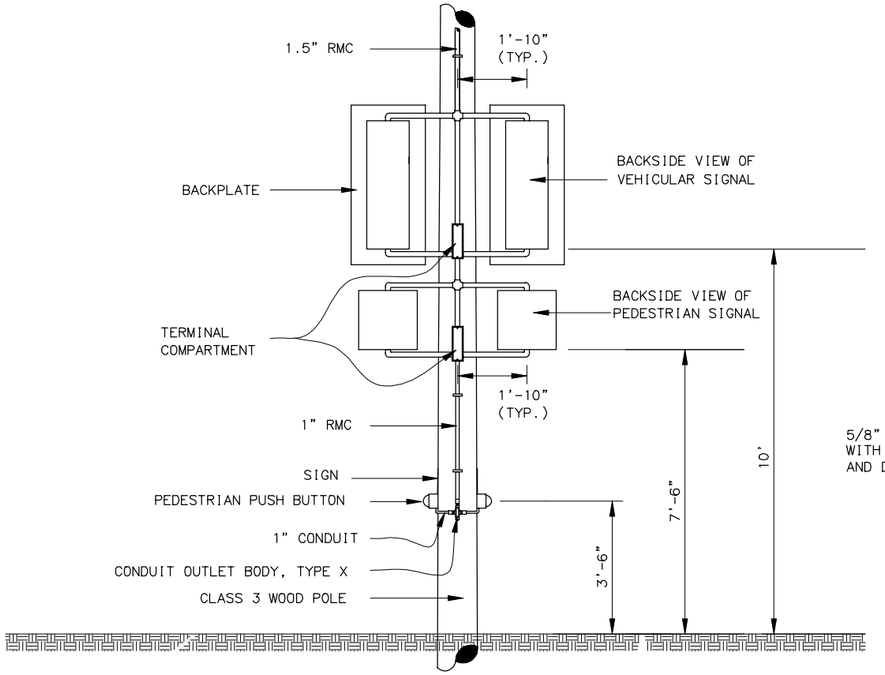
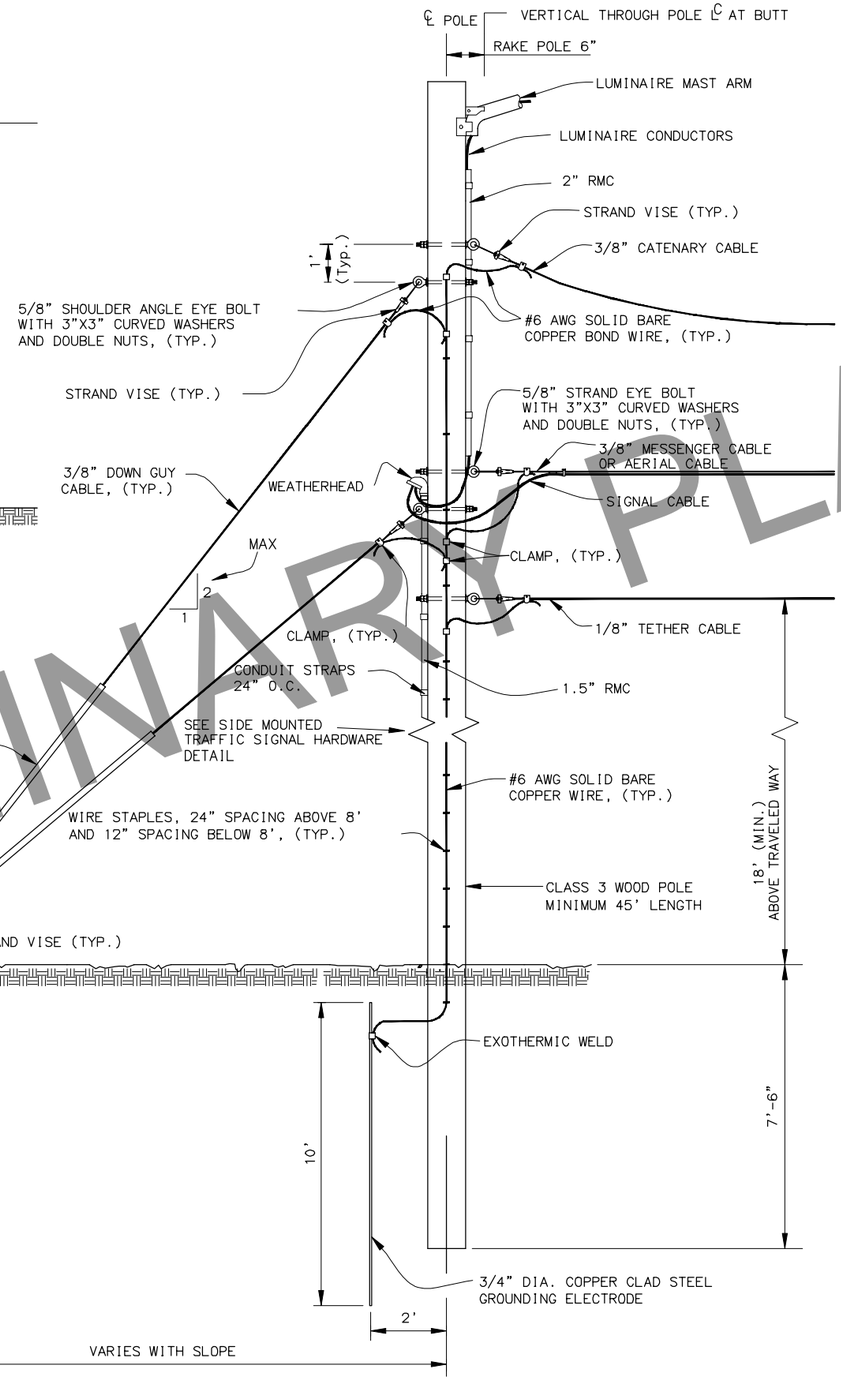


SIDE MOUNTED TRAFFIC SIGNAL HARDWARE
NTS



WOOD TRAFFIC POLE DETAIL
NTS
(SINGLE SPAN ATTACHMENT SHOWN)

NOTES:

1. USE SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE VEHICULAR AND PEDESTRIAN SIGNAL HEADS ON THE SIDES OF THE WOOD POLES.
2. SECURELY ATTACH THE TERMINAL COMPARTMENTS TO THE WOOD POLES AT THE LOCATIONS SHOWN ON ALASKA STANDARD PLAN T-30 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS.
3. THE VERTICAL CLEARANCES SHOWN ARE FROM THE WALKING SURFACE FOR THE PEDESTRIAN GEAR AND THE TRAVELED WAY FOR THE VEHICULAR SIGNALS.
4. TERMINATE POLES WITH NO LUMINAIRE A MINIMUM OF 2 FEET ABOVE THE CATENARY CABLE CONNECTION.
5. SEE ALASKA STANDARD PLAN T-30 OR THE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR ADDITIONAL TRAFFIC SIGNAL HARDWARE DETAILS.
6. ALL 3/8 INCH SPAN AND GUY CABLE SHALL BE HEAVY DUTY (HD) STEEL WITH MINIMUM 9,700 LB BREAKING STRENGTH. ALL OTHER CABLES SHALL ALSO BE HD RATED.
7. GUY ANCHOR SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. SOIL CLASSIFICATION SHALL BE USED TO DETERMINE ANCHOR SIZE, FOLLOW MANUFACTURE GUIDELINES AND CONFIRM SOIL CLASSIFICATION WITH ENGINEER PRIOR TO ANCHOR SELECTION.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TEMPORARY WOOD SIGNAL POLE DETAILS OVERHEAD SERVICE

DATE/TIME 4/8/2022 4:04 PM | LAYOUT H16 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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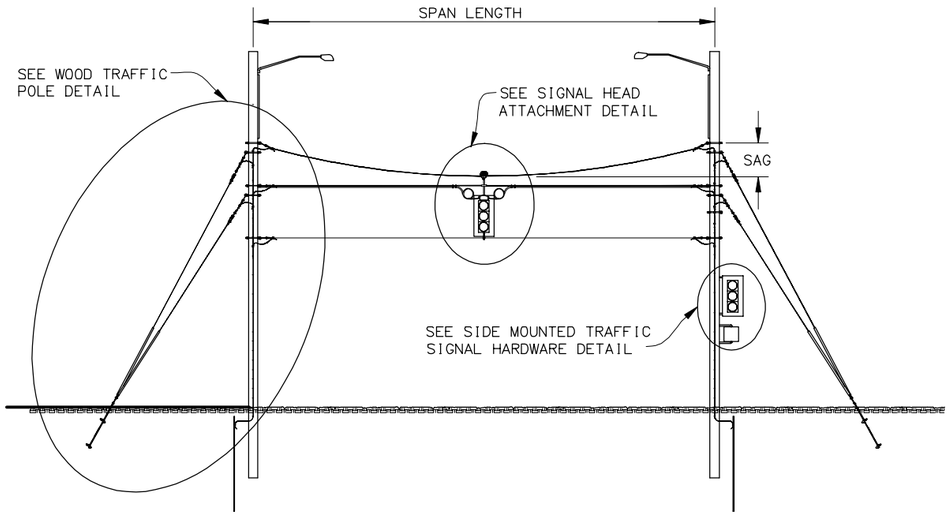
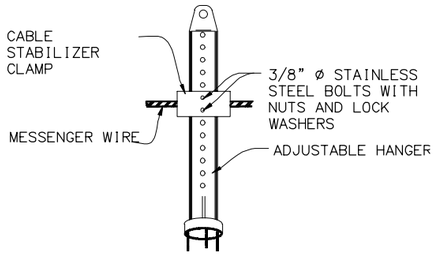
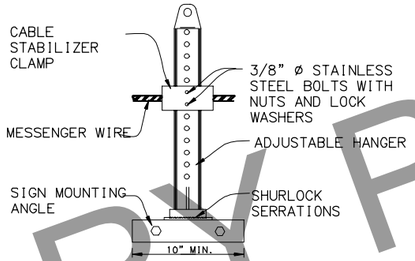


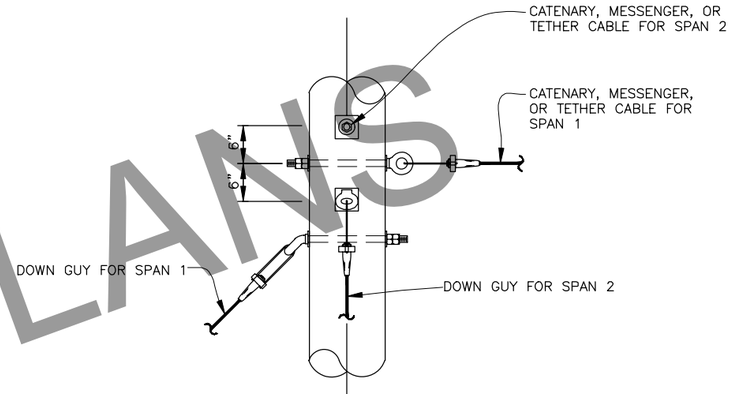
SPAN ELEVATION
NTS



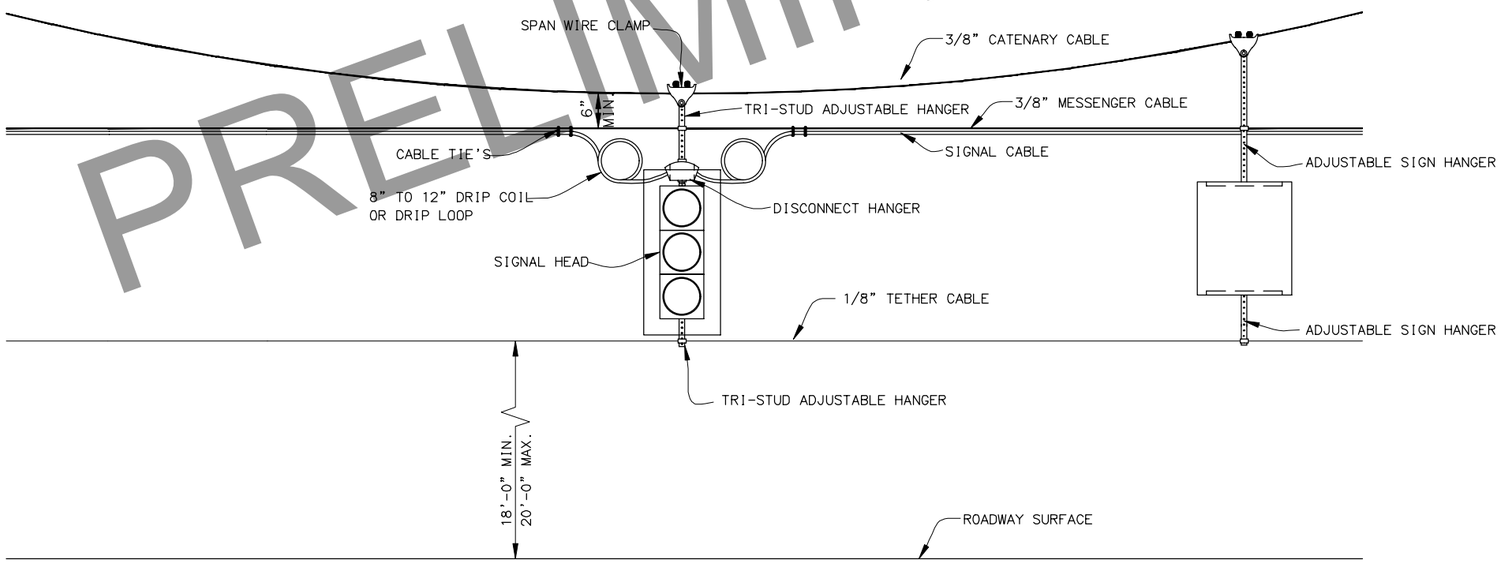
TRI-STUD ADJUSTABLE HANGER
NTS



ADJUSTABLE HANGER FOR SIGN MOUNTING
NTS



MULTIPLE SPAN ATTACHMENT DETAIL
NTC



SIGNAL HEAD AND SIGN ATTACHMENT DETAIL
NTS

NOTES:

1. ATTACH ADJUSTABLE HANGERS TO THE MESSENGER AND TETHER CABLES WITH CABLE STABILIZER CLAMPS.
2. ATTACH SIGNAL CABLES TO MESSENGER CABLE EVERY 1' USING 3M HEAVY DUTY BLACK CABLE TIES OR APPROVED EQUAL. CABLE TIES SHALL BE WEATHER RESISTANT BLACK NYLON GREATER THAN 0.065" THICK, HAVE A TENSILE STRENGTH GREATER THAN 110LBS, AND HAVE A TEMPERATURE RANGE BETTER THAN −35°F TO 180°F. USE TWO TIES BEFORE/AFTER DRIP LOOPS. CABLE TIES SHALL BE ATTACHED "SNUG TIGHT", DO NOT OVER TIGHTEN.
3. INSTALL SIGNS SO THAT THE BOTTOM EDGES ARE AT APPROXIMATELY THE SAME ELEVATION.
4. SAG=4% TO 5% OF SPAN LENGTH.

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STATE OF ALASKA
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SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TEMPORARY TRAFFIC SIGNAL SPAN WIRE DETAILS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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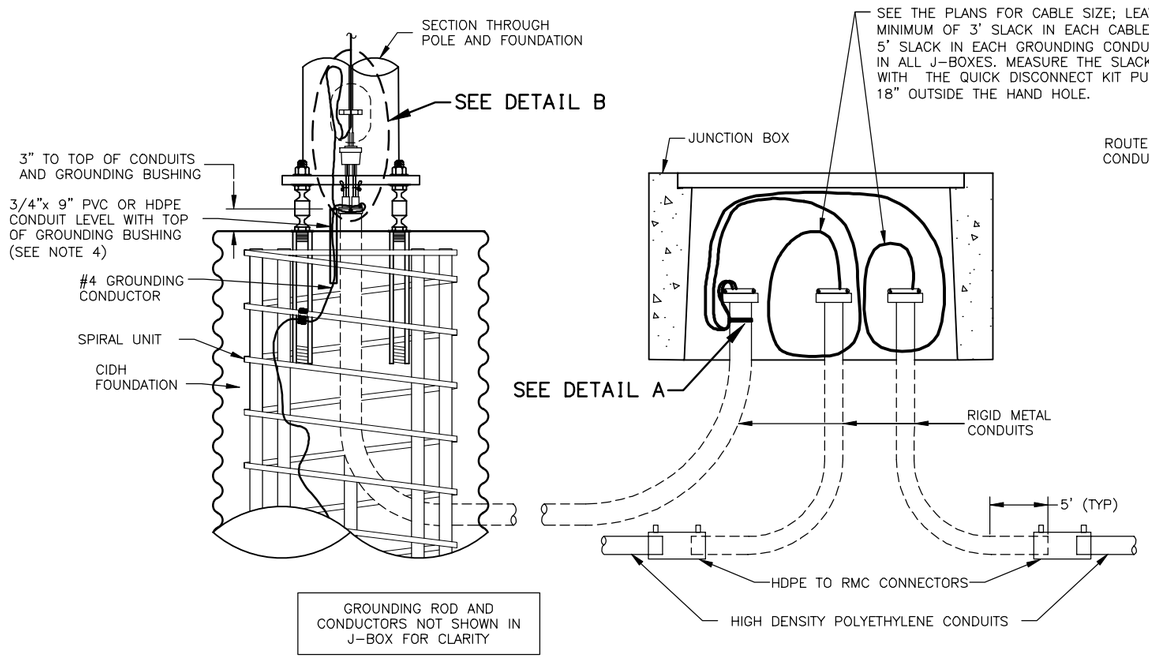
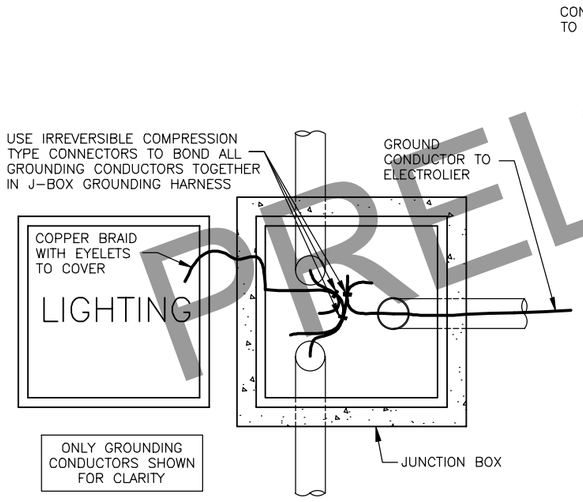
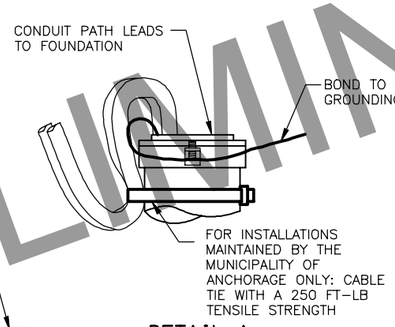


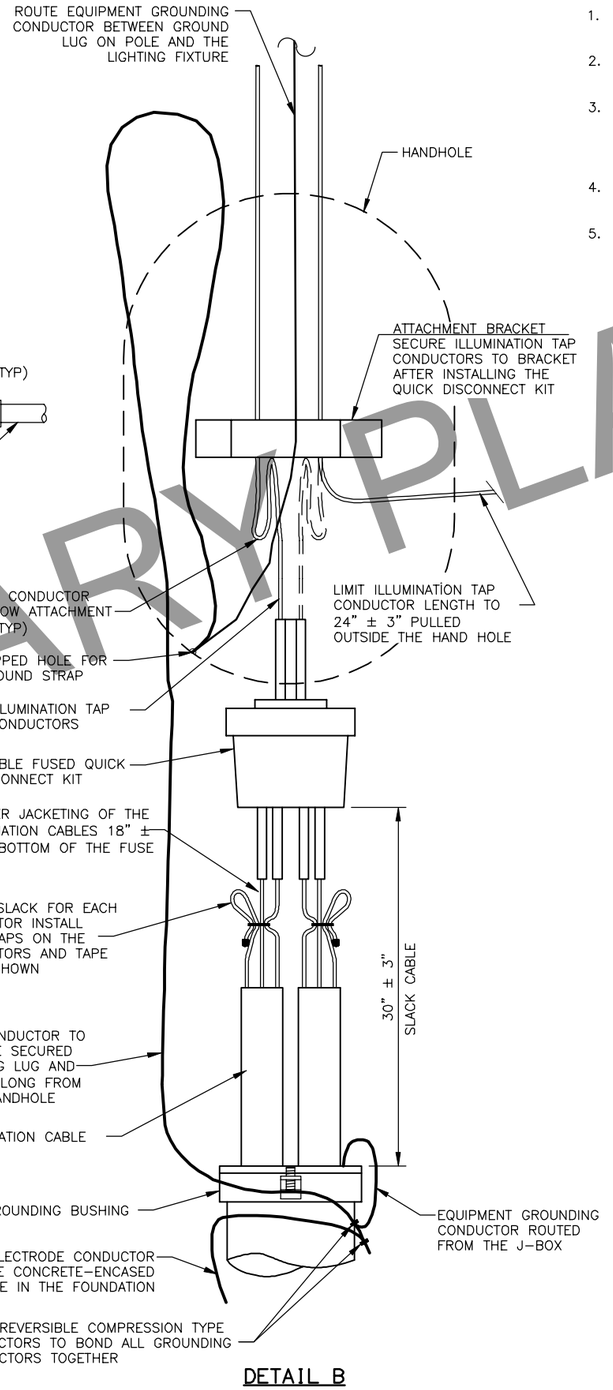
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



GROUNDING CONDUCTOR BONDING CONNECTIONS



DETAIL A



DETAIL B

NOTES:

1. APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
2. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
3. MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING ELECTRODE CONDUCTOR TO THE CONCRETE-ENCASED ELECTRODE IN THE FOUNDATION SHALL BE #4 AWG.
4. USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. PROTECT GROUND WIRE WITH 3/4" PVC OR HDPE CONDUIT TO 6" BELOW TOP OF FOUNDATION FILLED WITH SILICONE SEALANT.

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

CIDH FOUNDATION POLE WIRING
AND GROUNDING DETAILS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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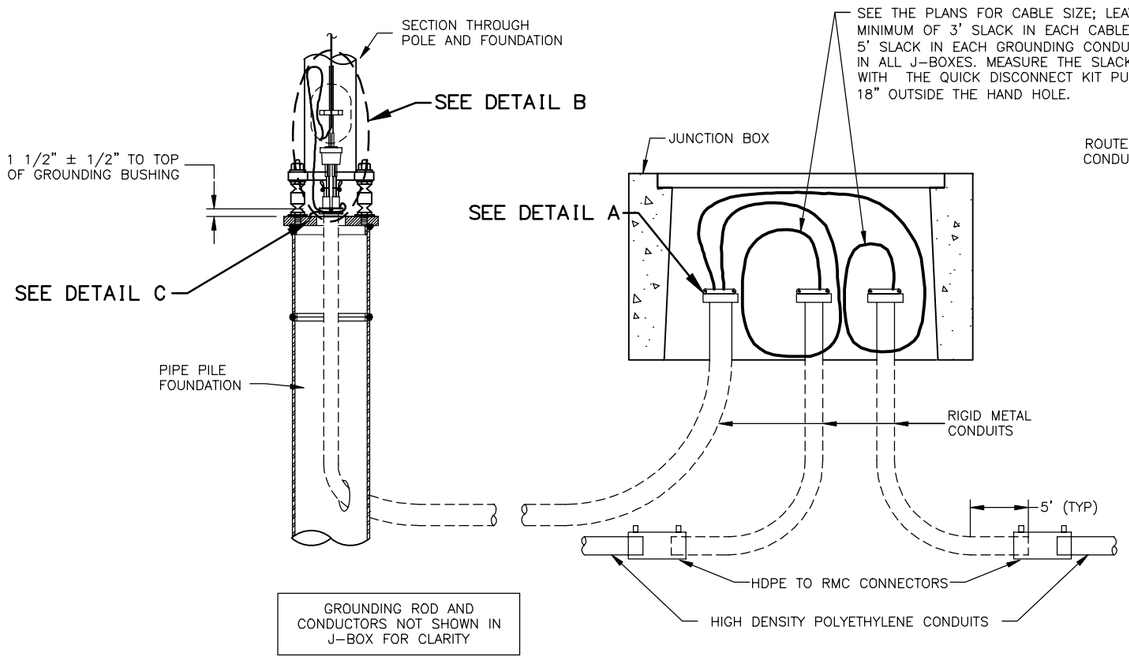
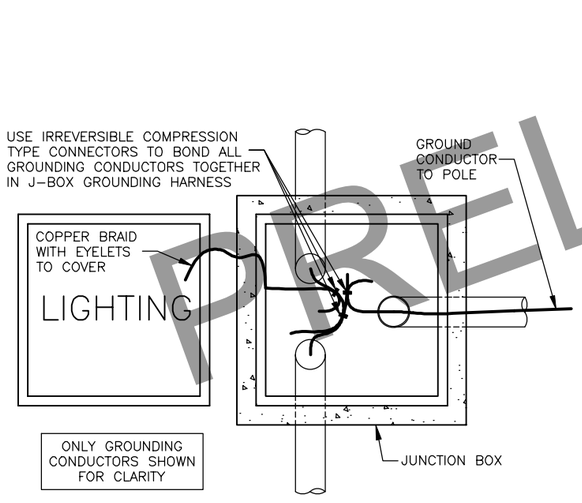
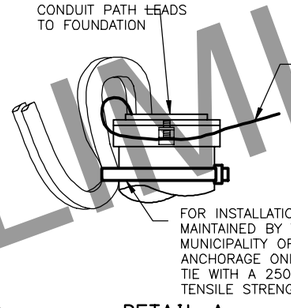


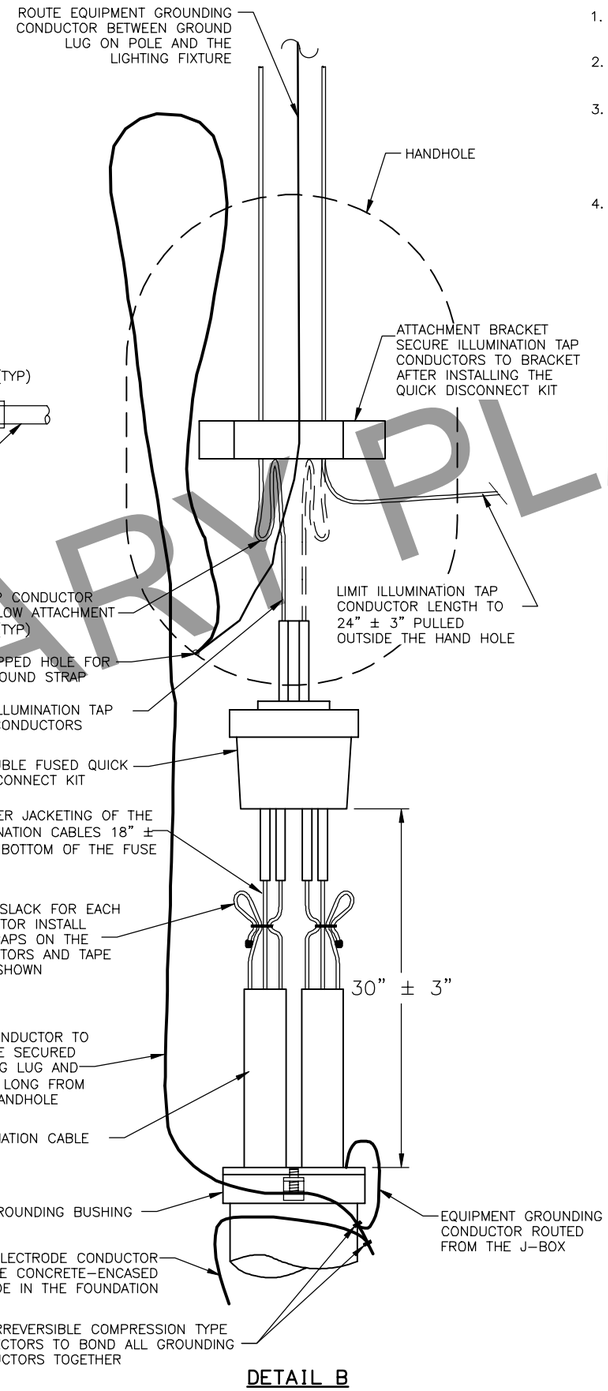
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



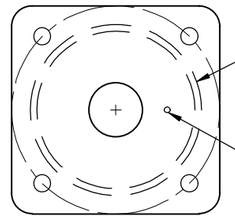
GROUNDING CONDUCTOR BONDING CONNECTIONS



DETAIL A



DETAIL B



DETAIL C

NOTES:

1. APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
2. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
3. MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING ELECTRODE CONDUCTOR TO THE CONCRETE-ENCASED ELECTRODE IN THE FOUNDATION SHALL BE #4 AWG.
4. USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

PIPE PILE FOUNDATION POLE WIRING AND GROUNDING DETAILS

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGR.

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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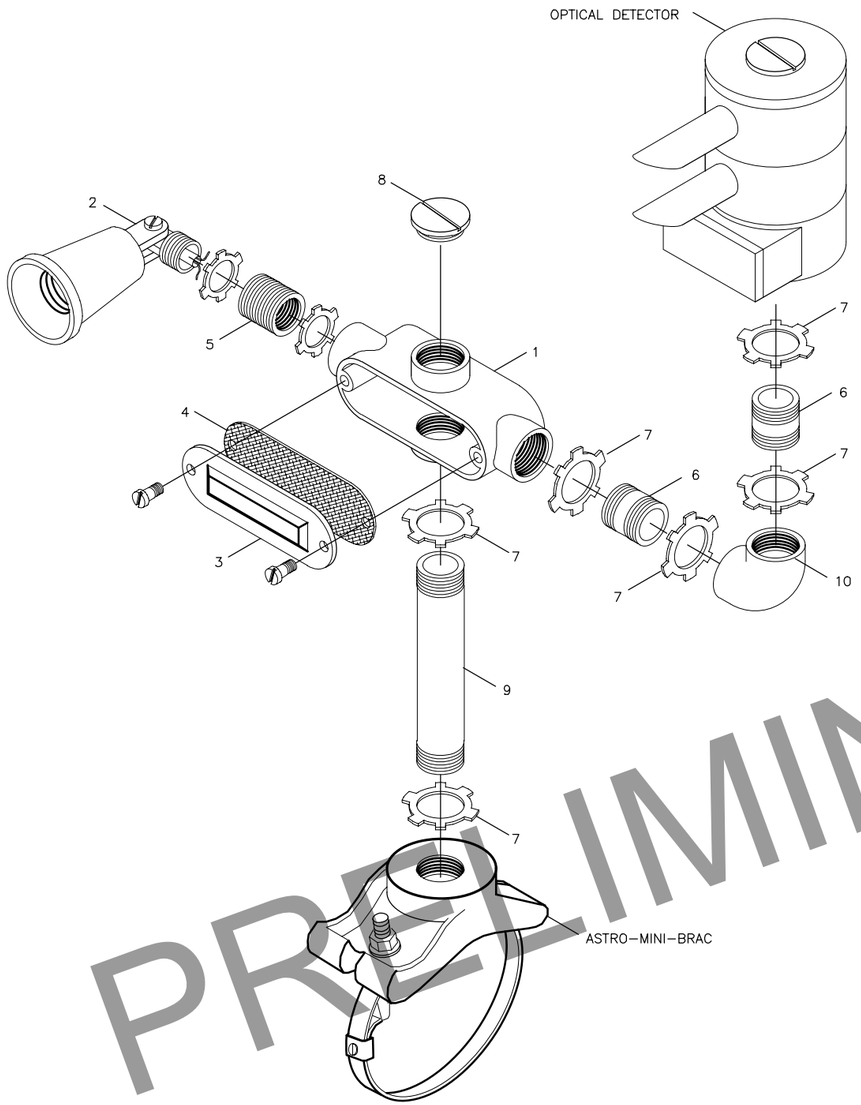

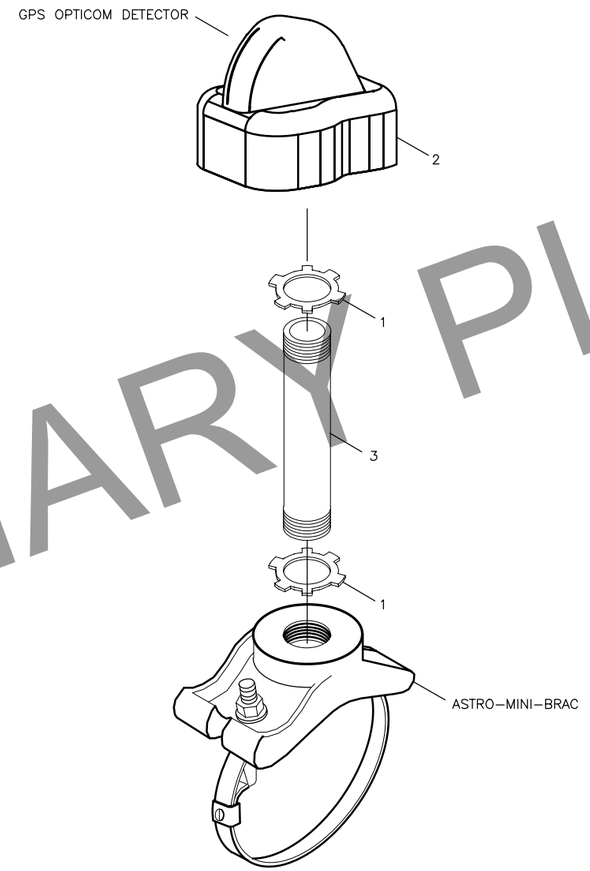

PARTS LIST FOR EACH GTT OPTICOM DETECTOR INSTALLED

GTT OPTICOM MODEL 575 CONFIRMATION LIGHT KIT
CONFIGURE AS SHOWN FROM PARTS BELOW

PART NO.	PART TYPE	QUANTITY
1	"X" CONDUIT BODY	1
2	PAR 38 LAMP HOLDER	2
3	CONDUIT COVER	1
4	COVER GASKET	1
5	REDUCING BUSHING	2
6	3/4" X 2" GALVANIZED NIPPLE	ADD 2 TO KIT
7	3/4" LOCKNUT	6
8	3/4" HOLE PLUG	2
9	3/4" X 6" NIPPLE	ADD 1 TO KIT
10	3/4" X 90° ELBOW	ADD 1 TO KIT

PARTS LIST FOR EACH GPS OPTICOM DETECTOR INSTALLED

GTT OPTICOM MODEL 3100 RADIO/GPS UNIT AS SHOWN FROM PARTS BELOW

PART NO.	PART TYPE	QUANTITY
1	3/4" LOCKNUT	2
2	GPS OPTICOM UNIT	1
3	3/4" X 6" NIPPLE	1

NOTES:

1. SEE THE SIGNAL PLANS FOR THE SIGNAL POLE MAST ARMS SCHEDULED FOR EVP INSTALLATION.
2. FOR EACH EVP INSTALLATION, FURNISH:
   A. A GTT MODEL 711, 721, 722 OPTICOM DETECTOR AS CALLED FOR IN PLANS.
   B. AN ASTRO–MINI–BRAC, STAINLESS STEEL BAND AND STAINLESS UPGRADE OPTION, MODEL AB–0155–L, AS MANUFACTURED BY PELCO PRODUCTS OR AN APPROVED EQUAL.
   C. A GTT MODEL 575 CONFIRMATION LIGHT KIT WITH THE ADDITIONAL PARTS SHOWN IN THE PARTS LIST, OR STEEL PARTS, WITH A HOT DIP GALVANIZED FINISH, AS SHOWN IN THE PARTS LIST.
   D. WITH EACH OPTICOM DETECTOR INSTALLED, FURNISH A PAR38 20 WATT LED FLOOD LAMP RATED FOR 120 VOLT OPERATION, 1250 INITIAL LUMENS, AND A 25000 HOUR LAMP LIFE.
3. MOUNT EVP DETECTORS TO HAVE DIRECT, UNOBSTRUCTED LINE–OF–SIGHT OF APPROACHING VEHICLES. DRILL A 1 INCH HOLE IN THE TOP DEAD CENTER OF THE MAST ARM AT THE LOCATION PRE–APPROVED BY THE ENGINEER. ASSEMBLE AND TIGHTEN THE PARTS AND LOCKNUTS AS SHOWN ON THIS SHEET.
4. BEFORE ATTACHING THE MODEL 138 DETECTOR CABLE TO THE OPTICOM DETECTOR, STRIP THE INSULATION FROM THE THREE INSULATED CONDUCTORS AT THE CONTROLLER CABINET AND ATTACH ALL FOUR CONDUCTORS TO GROUND.
5. PREEMPTION EMITTERS SHALL BE ASSIGNED ID NUMBERS BY JURISDICTION AS SHOWN IN VEHICLE EMITTER TABLE.

GPS NOTES:

1. SEE THE SIGNAL PLANS FOR THE SIGNAL POLE MAST ARM SCHEDULED FOR GPS OPTICOM SYSTEM INSTALLATION.
2. FOR EACH GPS OPTICOM SYSTEM INSTALLATION, FURNISH:
   A. A GTT MODEL 3100 GPS DETECTOR AS CALLED FOR IN PLANS.
   B. AN ASTRO–MINI–BRAC, STAINLESS STEEL BAND AND STAINLESS UPGRADE OPTION, MODEL AB–0155–L, AS MANUFACTURED BY PELCO PRODUCTS OR AN APPROVED EQUAL.
3. MOUNT DETECTORS PER MANUFACTURER RECOMMENDATIONS. DRILL A 1 INCH HOLE IN THE TOP DEAD CENTER OF THE MAST ARM AT THE LOCATION PRE–APPROVED BY THE ENGINEER. ASSEMBLE AND TIGHTEN THE PARTS AND LOCKNUTS AS SHOWN ON THIS SHEET.
4. INSTALL OPTICOM MODEL 1070 GPS INSTALLATION CABLE BETWEEN THE SIGNAL CABINET AND THE GPS UNIT PER MANUFACTURER RECOMMENDATIONS. LEAVE APPROXIMATELY 10 FEET OF THE MODEL 1070 CABLE SPOOLED IN THE TRAFFIC CONTROLLER CABINET.
5. PREEMPTION EMITTERS SHALL BE ASSIGNED ID NUMBERS BY JURISDICTION AS SHOWN IN VEHICLE EMITTER TABLE.

VEHICLE EMITTER TABLE

CLASS	VEHICLE I.D. NO.	JURISDICTION	VEHICLE TYPE
0	NOT USED	MUNICIPALITY OF ANCHORAGE	FIRE & EMS
1	NOT USED	MUNICIPALITY OF ANCHORAGE	OTHER
2	NOT USED	FAIRBANKS	FIRE & EMS
3	NOT USED	FAIRBANKS	OTHER
4	1–30	MATANUSKA/SUSITNA	FIRE & EMS
5	NOT USED	MATANUSKA/SUSITNA	OTHER
6	NOT USED	KENAI PENINSULA	FIRE & EMS
7	NOT USED	KENAI PENINSULA	OTHER
8	NOT USED	ELMENDORF/FT. RICHARDSON	FIRE & EMS
9	NOT USED	ELMENDORF/FT. RICHARDSON	OTHER

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

EVP INSTALLATION DETAILS

DATE/TIME	DESIGNED	DRAFTED	CHECKED
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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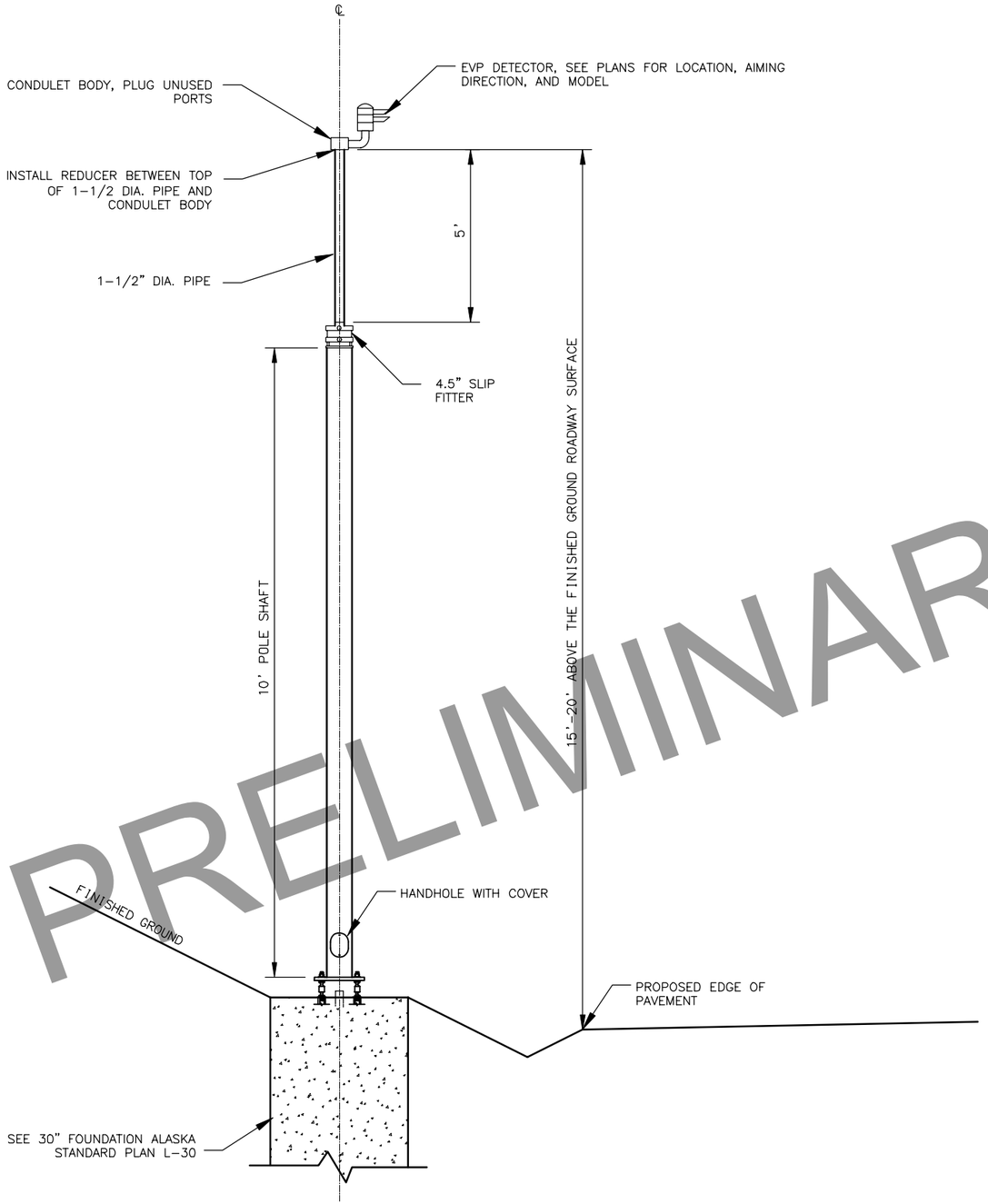

ADVANCE EVP INSTALLATION DETAIL
NTS

NOTES:

1. REFER TO THE BREAKAWAY TRAFFIC SIGNAL POLE DETAILS INCLUDED IN THE PLANS FOR ADDITIONAL DETAILS AND NOTES NOT SHOWN HERE.

STATE OF ALASKA
49TH
CERTIFICATION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

ADVANCED EVP
INSTALLATION DETAILS

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H22	H39

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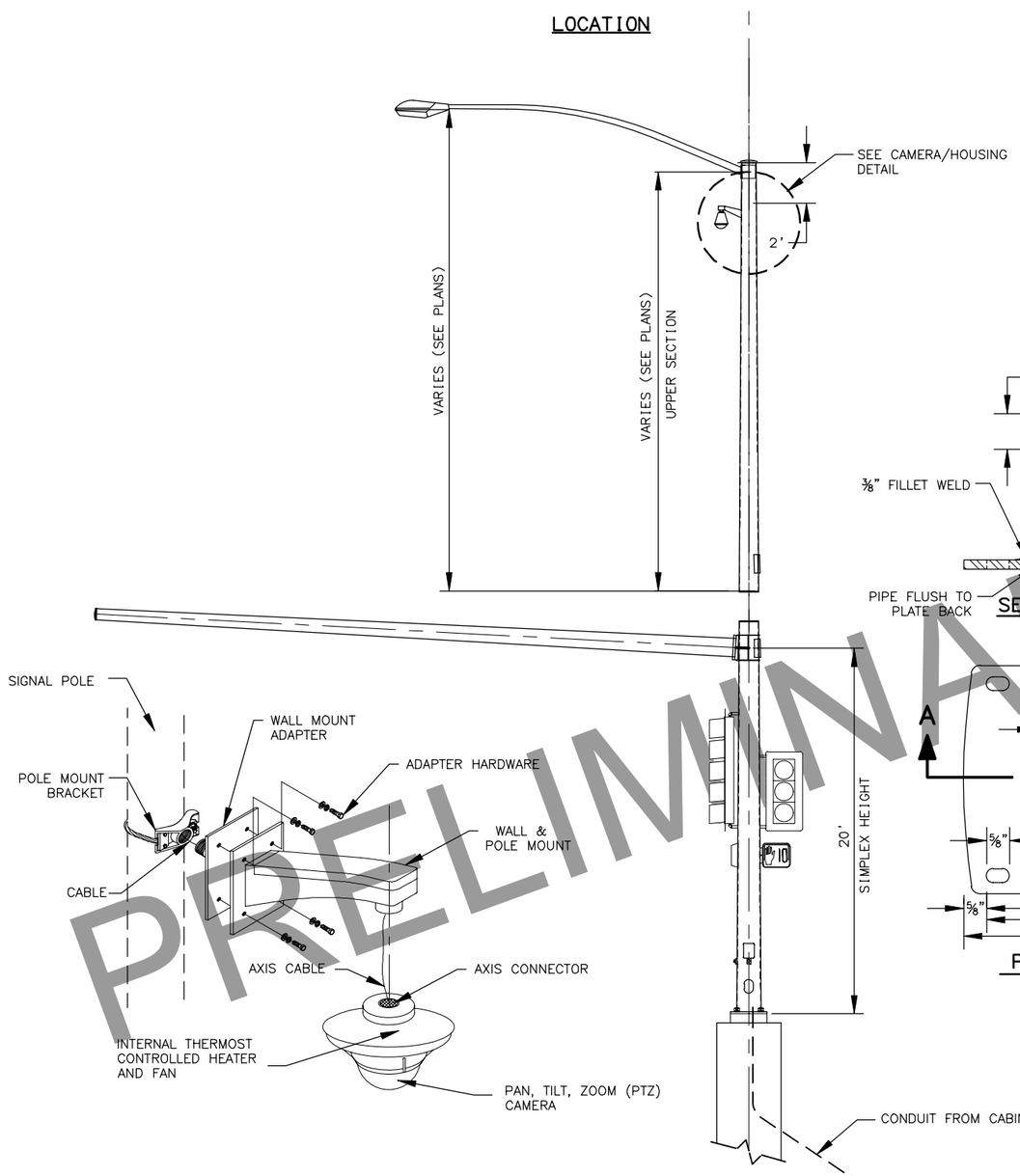
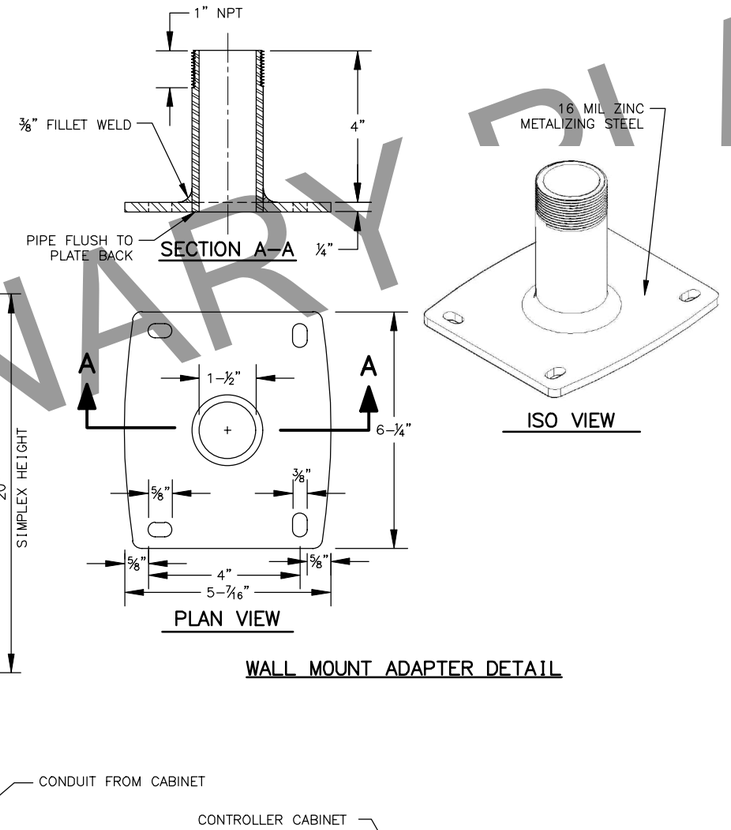


CAMERA/HOUSING DETAIL
NTS

SYSTEM LAYOUT
NTS

MATERIAL REQUIREMENTS

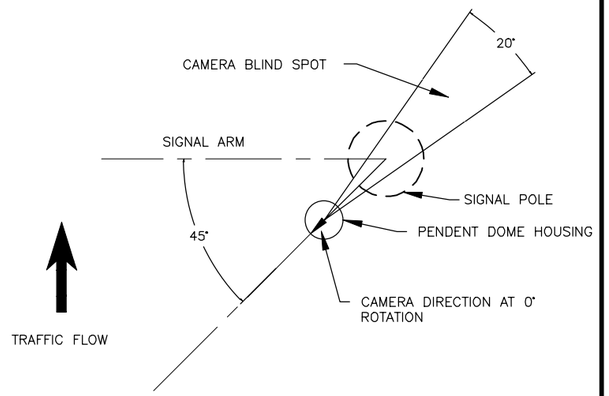
ALL ASSEMBLIES	
MOUNTING BRACKET	ASTRO-BRAC AB-0160-45-SS-PNC
WALL ADAPTOR	STEEL FABRICATORS OR APPROVED EQUAL
WALL MOUNT	AXIS T91L61 OR APPROVED EQUAL
CABLE 1 (SIGNAL)	CAT-5E, SHIELDED, DIRECT BURIAL
CONNECTOR	ENVIRONMENTALLY HARDENED RJ-45
STRAIN RELIEF	REMKE 2201-013 OR APPROVED EQUAL
ADAPTER HARDWARE, EACH	(1) 5/16" 18X1" HEX BOLT, STAINLESS (2) 5/16" FLAT WASHER, STAINLESS (1) 5/16" NY-LOCK NUT, STAINLESS
CAMERA	
CAMERA	SEE SPECIFICATIONS



WALL MOUNT ADAPTER DETAIL

NOTES:

1. PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.
2. PULL CABLE IN ACCORDANCE WITH SECTION 660 OF THE SPECIAL PROVISIONS. PULL CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLES ARE TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS, SEAL ENDS OF CABLES.
3. CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES EXCEPT FOR IN LOCATION SHOWN IN SPICE DETAIL WITH SPECIFIED CONNECTOR.
4. CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT NO ADDITIONAL COST.
5. THE MINIMUM BEND RADIUS SHALL NOT EXCEED THE MANUFACTURERS RECOMMENDATIONS.
6. ENSURE ADEQUATE LENGTH OF EACH CABLE TO ALLOW WORK ON THE ENDS OF THE CABLE IN THE CONTROLLER CABINET AND THE CAMERA MOUNTING LOCATION.
7. MOUNT THE PENDENT DOME HOUSING AT A 45° ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID WELDS, APPENDICES AND TO APPROVE SIGHT DISTANCE.
8. ADJUST CAMERA INSIDE THE PENDENT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0° TILT ANGLE.
9. INSTALL WATERTIGHT THREADED RIGID COMPRESSION CONNECTOR WHERE CABLE PASSES THROUGH THE POLE.
10. AT SPLICE LOCATION PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED. AFTER CONNECTION IS MADE COVER SPLICE WITH HEAT SHRINK. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.
11. CAMERA/HOUSING MOUNTING HEIGHT TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND MOA SIGNAL ELECTRONICS.



CAMERA/PENDENT DOME ORIENTATION
NTS

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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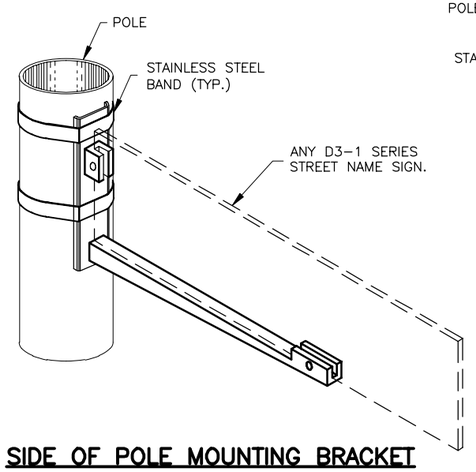
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

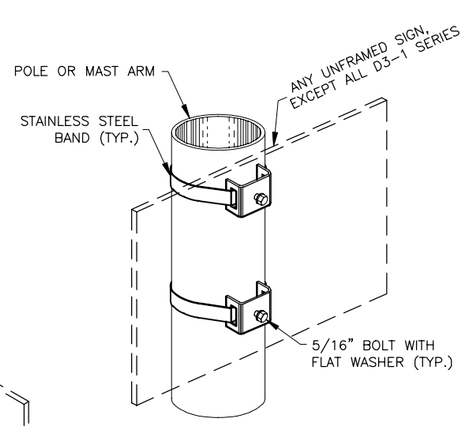
PAN, TILT, ZOOM CAMERA MOUNTING DETAILS

NO.	DATE	REVISION

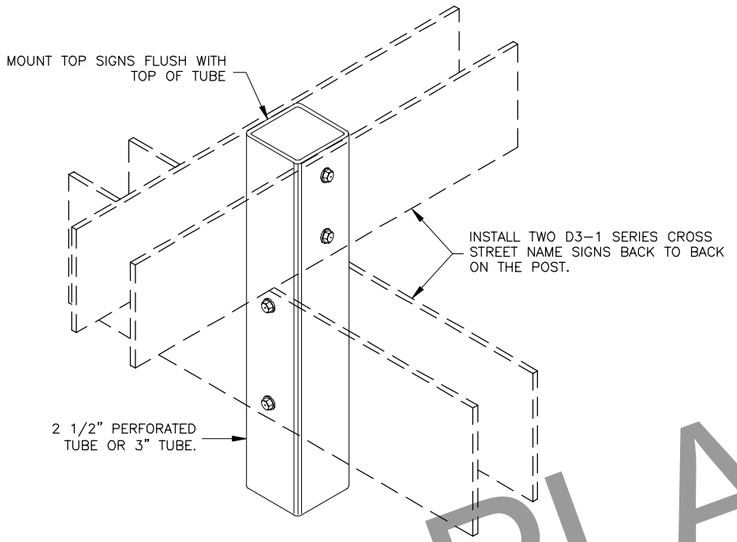
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H23	H39



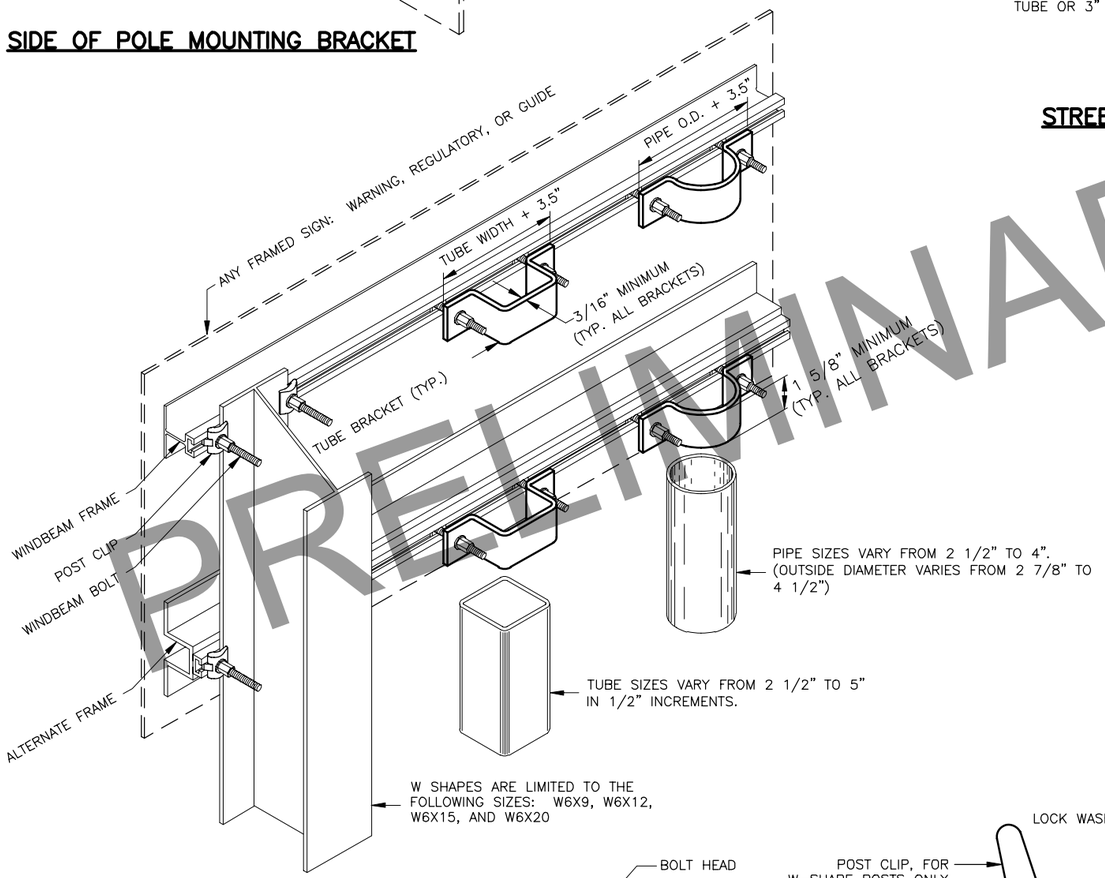
SIDE OF POLE MOUNTING BRACKET



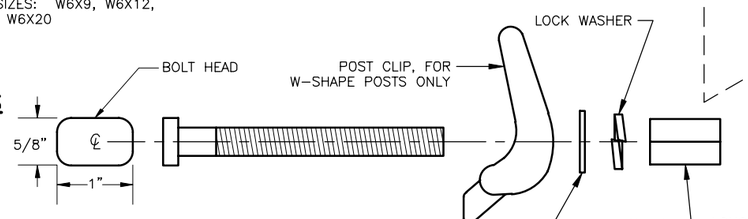
SADDLE BRACKETS



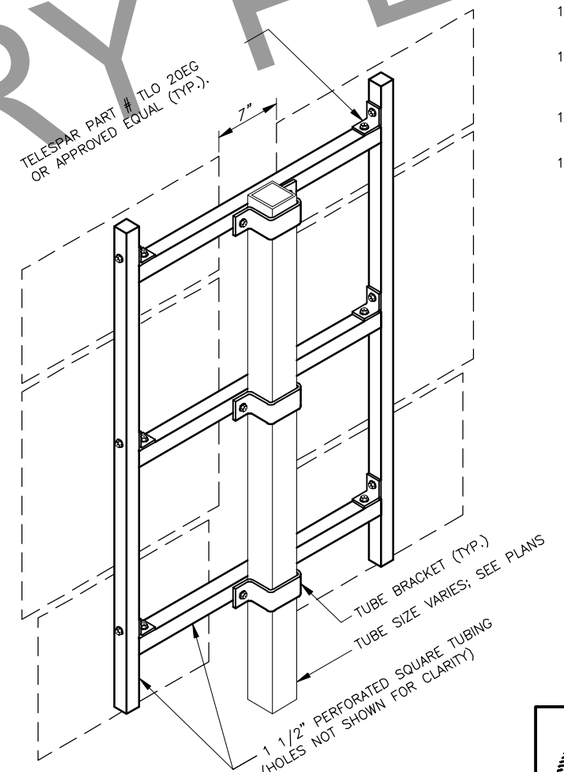
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



3/8" WINDBEAM BOLT AND LONG NUT



ROUTE MARKER TREE

NOTES:

1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
2. ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
3. BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
4. ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
5. ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
7. ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
8. ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
9. FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
10. INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
11. INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE

FASTENERS	ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	ASTM F468 2024-T4	ASTM A307	ASTM F593
NUTS	ASTM F467 2024-T4	ASTM A563	ASTM F594
WASHERS	ANSI B18.22.1	ASTM F844	ANSI B18.22.1
POST CLIPS	ASTM B179 356-T6	N/A	N/A

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN ATTACHMENT DETAILS

DATE/TIME 4/8/2022 4:06 PM | LAYOUT H23 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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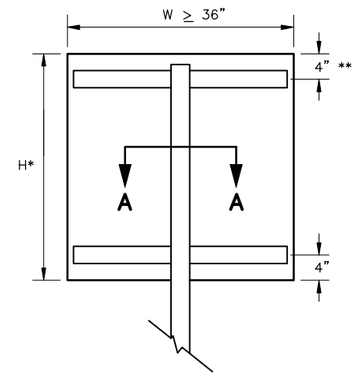
NO.	DATE	REVISION

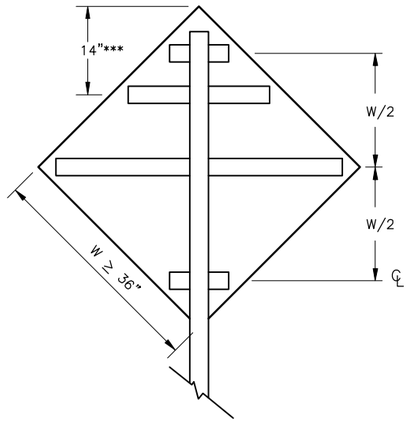
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H24	H39



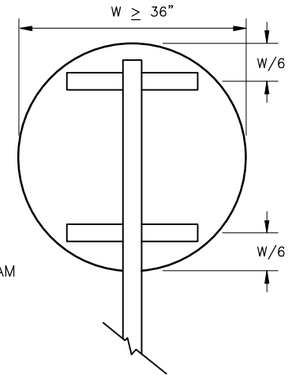
RECTANGLES AND TRAPEZOIDS

* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.

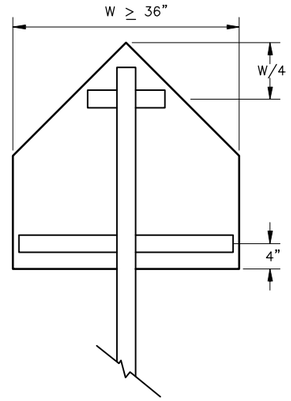
** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".

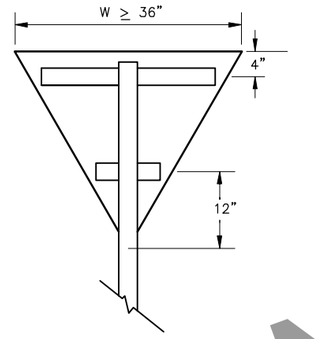


*** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14" OFFSET. OTHERWISE, USE W/2.



ROUNDS AND OCTAGONS



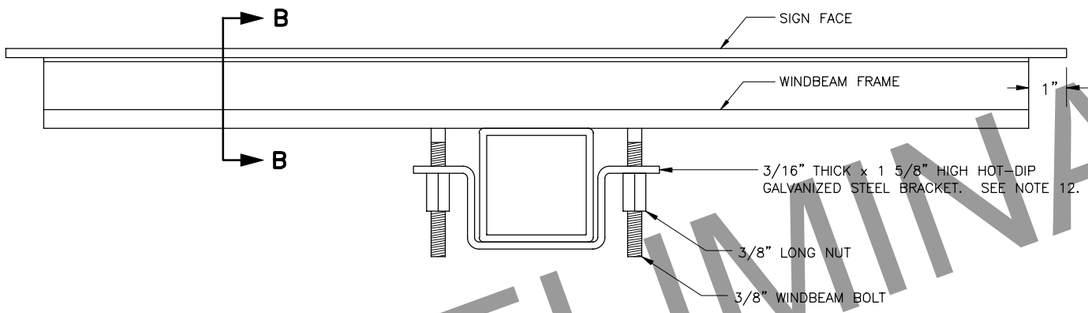


NOTES:

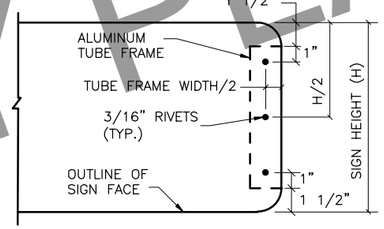
1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
2. INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
3. IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
4. THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
5. THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
6. USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
7. EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
8. ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
9. WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
   A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
   B. THE APPLICATION OF THE ADHESIVE TAPE.
10. WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
11. USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
12. THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.

WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

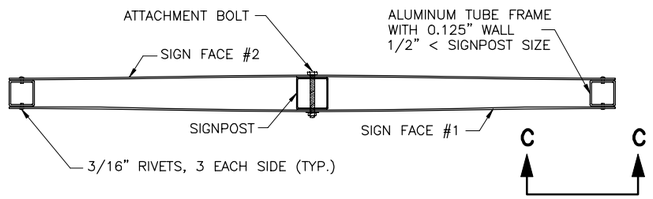
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

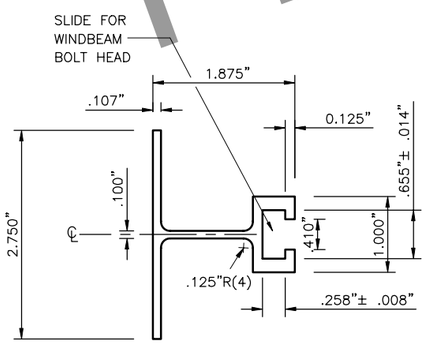


VIEW C - C

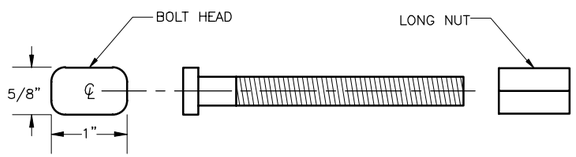


D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LIGHT SIGN FRAMING ATTACHMENT DETAILS

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

DATE/TIME 4/8/2022 4:06 PM | LAYOUT H24 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

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NO.	DATE	REVISION

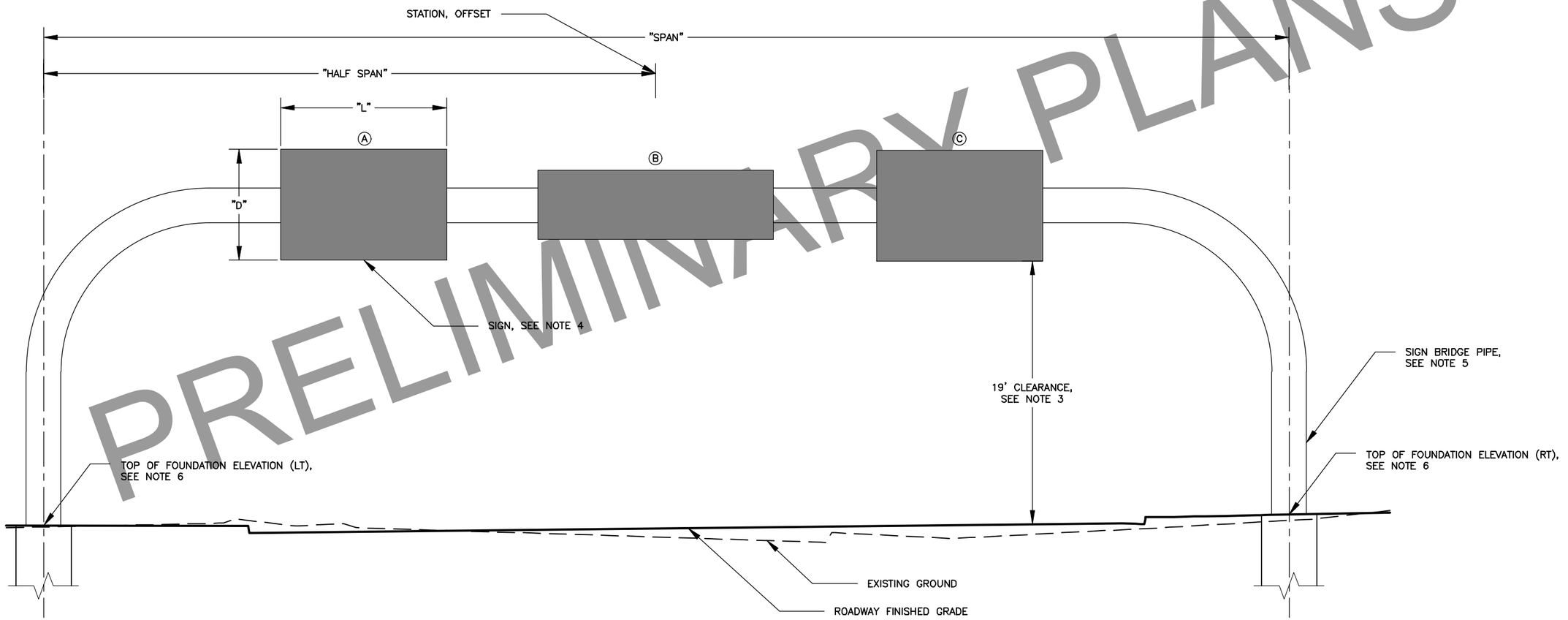
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H25	H39

OVERHEAD SIGN STRUCTURE

POLE NO	STRUCTURE AND FOUNDATION DATA						SIGN DATA		
	STATION	OFFSET	SPAN (FT)	PIPE DIA (IN)	TOP OF FOUNDATION ELEVATION (LT)	TOP OF FOUNDATION ELEVATION (RT)	LEGEND (SEE NOTE 4)	"L" (IN)	"D" (IN)
127	"X-OM-EB" 2605+27	0.9' RT	90	30	172.0'	172.8'	(A) SEWARD HIGHWAY – NORTH	132	96
							(B) O'MALLEY ROAD	216	60
							(C) SEWARD HIGHWAY – SOUTH	156	72
176	"X-OM-WB" 2514+17	9.7' LT	72	24	182.0'	181.8'	(A) SEWARD HIGHWAY –SOUTH	126	84
							(B) O'MALLEY ROAD	216	60
							(C) SEWARD HIGHWAY – NORTH	138	96

NOTES:

1. SIGN BRIDGE SHOWN ON THIS SHEET IS SCHEMATIC. SEE SHEET H30, EASTBOUND AND WESTBOUND SIGN BRIDGE.
2. STATION AND OFFSET ARE TO THE CENTER OF THE SPAN.
3. CONSTRUCT SIGN BRIDGE STRUCTURE TO MAINTAIN 19' OF CLEARANCE BETWEEN BOTTOM EDGE OF SIGN AND THE NEW ROADWAY SURFACE.
4. SEE SIGN SUMMARY AND SPECS FOR SIGN LEGEND AND FABRICATION INFORMATION.
5. SEE SHEET H30 FOR PIPE DIAMETERS.
6. SEE SHEET H33 FOR FOUNDATION SIZE AND DETAILS.



ELEVATION

SIGN BRIDGE DETIAL

NTS

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN BRIDGE STRUCTURE DETAILS

DATE/TIME 4/5/2022 10:29 PM | LAYOUT H25 | DESIGNED | CHECKED | DRAFTED
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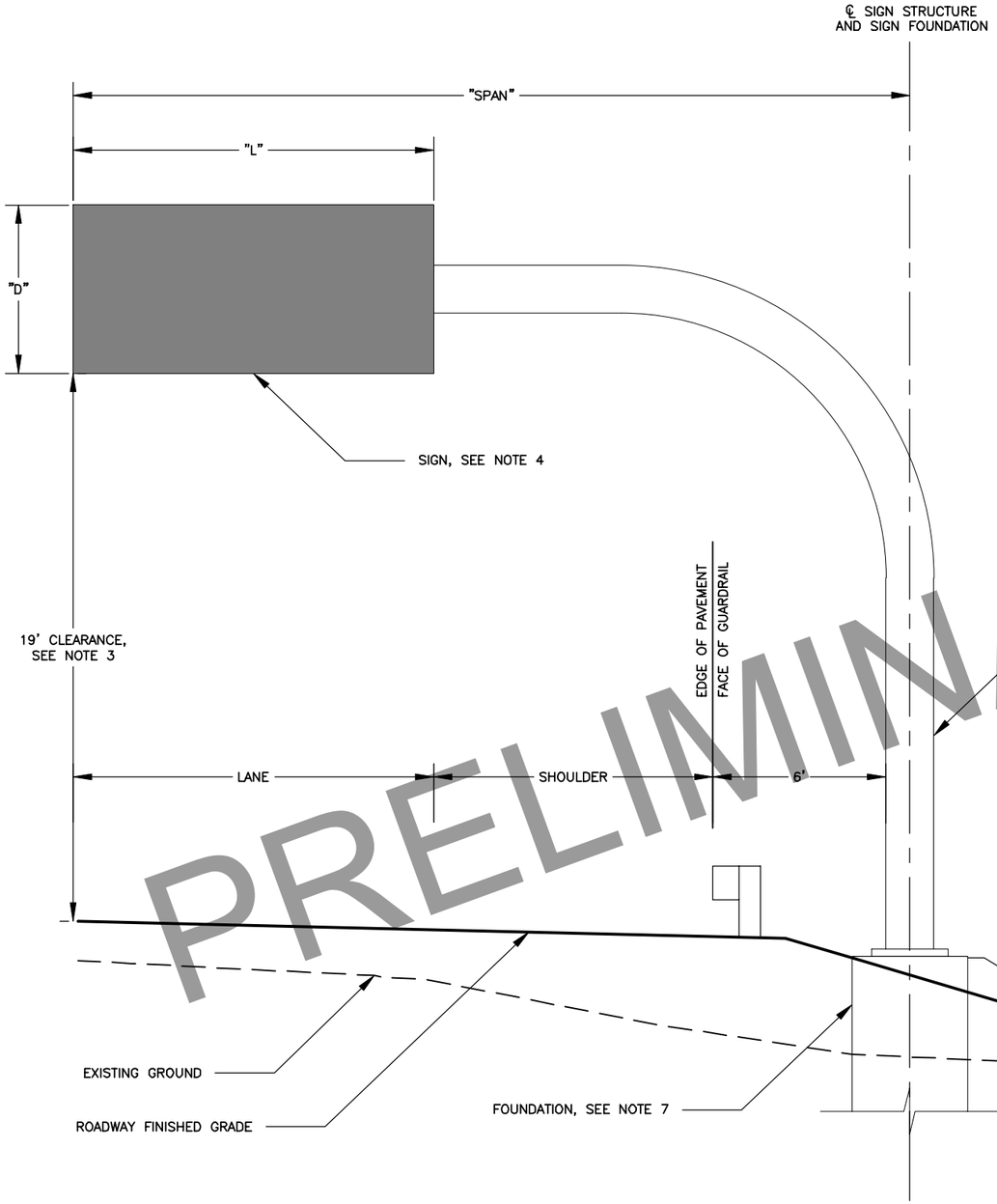
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	H26	H39



ELEVATION

OVERHEAD SIGN STRUCTURE AND GRADING DETAIL

NTS

NOTES:

1. CANTILEVER SHOWN ON THIS SHEET IS SCHEMATIC. SEE SHEET H30, VERTICAL SINGLE POST CANTILEVER.
2. STATION AND CL REFERENCE ARE TO THE CENTER OF THE STRUCTURE/FOUNDATION.
3. CONSTRUCT SIGN STRUCTURE TO MAINTAIN 19' OF CLEARANCE BETWEEN BOTTOM EDGE OF SIGN AND THE NEW ROADWAY SURFACE.
4. SEE SIGN SUMMARY AND SPECS FOR SIGN LEGEND AND FABRICATION INFORMATION.
5. TIE FOUNDATION GRADING INTO DITCH BOTTOM.
6. SEE SHEET H30 FOR PIPE DIAMETERS.
7. SEE SHEET H33 FOR FOUNDATION SIZE AND DETAILS.

VERTICAL SINGLE POST CENTILEVER

POLE NO	STRUCTURE AND FOUNDATION DATA				SIGN DATA		
	STATION	SPAN (FT)	PIPE DIA (IN)	TOP OF FOUNDATION ELEVATION	LEGEND (SEE NOTE 4)	"L" (IN)	"D" (IN)
23	"OM-4" 2412+51	38	30	157.5'	O'MALLEY RD – EXIT ONLY	288	70
42	"ML" 333+50	40	30	154.8'	O'MALLEY RD – EXIT ONLY	288	70
111	"ML" 401+89	31	24	116.1'	DIMOND BLVD – EXIT ONLY	192	70
115	"ML" 420+15	31 (EXST)	20 (EXST)	128.0' (EXST)	DIMOND BLVD – NEXT RIGHT	192	70

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
STANDARD OVERHEAD SIGN STRUCTURE AND GRADING DETAILS

DRAFTED | CHECKED | DESIGNED | H26 | LAYOUT | 4/5/2022 10:30 PM | DATE/TIME
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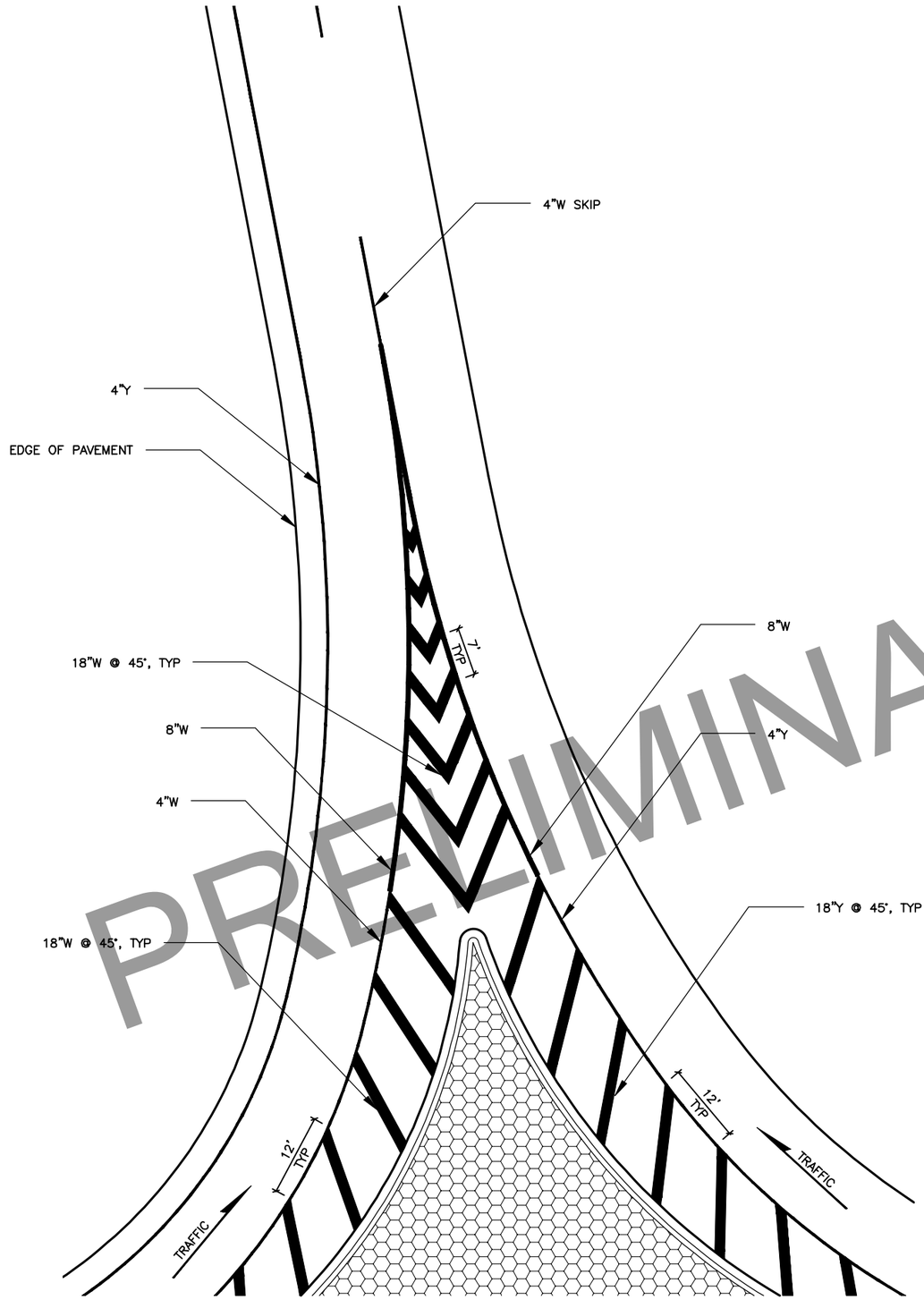
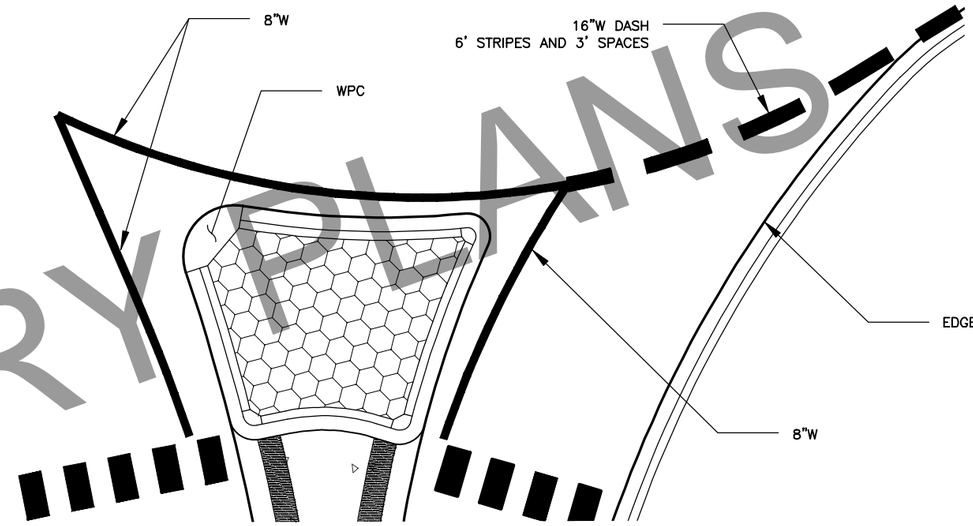
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H27	H39



DIVERGING DIAMOND MERGE MARKING DETAIL

NTS



SCOOTER AVE / ACADEMY DR ROUNDABOUT SPLITTER ISLAND MARKING DETAIL

NTS

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

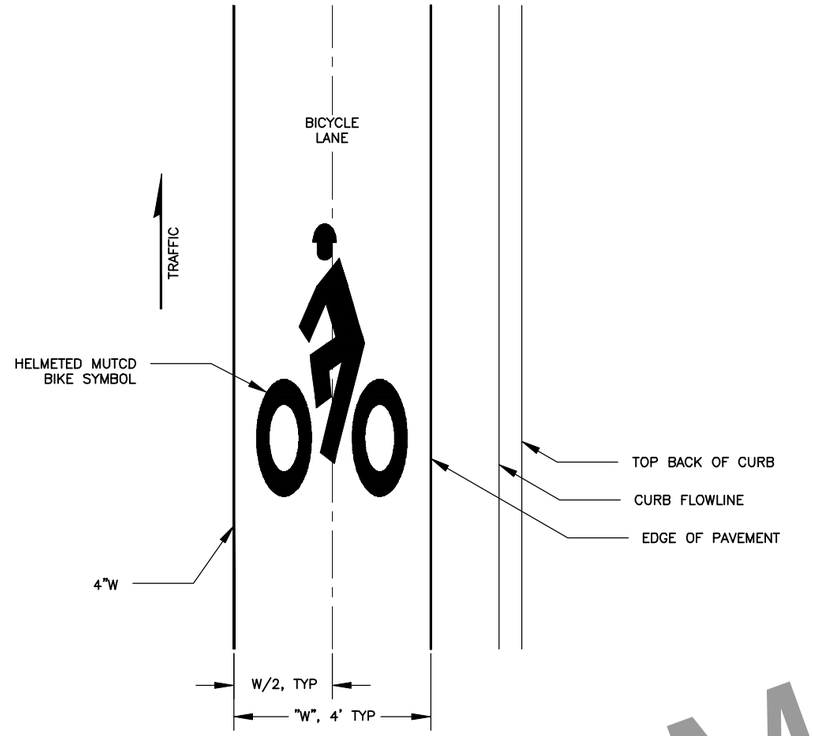
PAVEMENT MARKING DETAILS

DATE/TIME | 4/5/2022 10:31 PM | LAYOUT | H27 | DESIGNED | CHECKED | DRAFTED |

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_H27_SIGNSTRIPE.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H28	H39



LAYOUT

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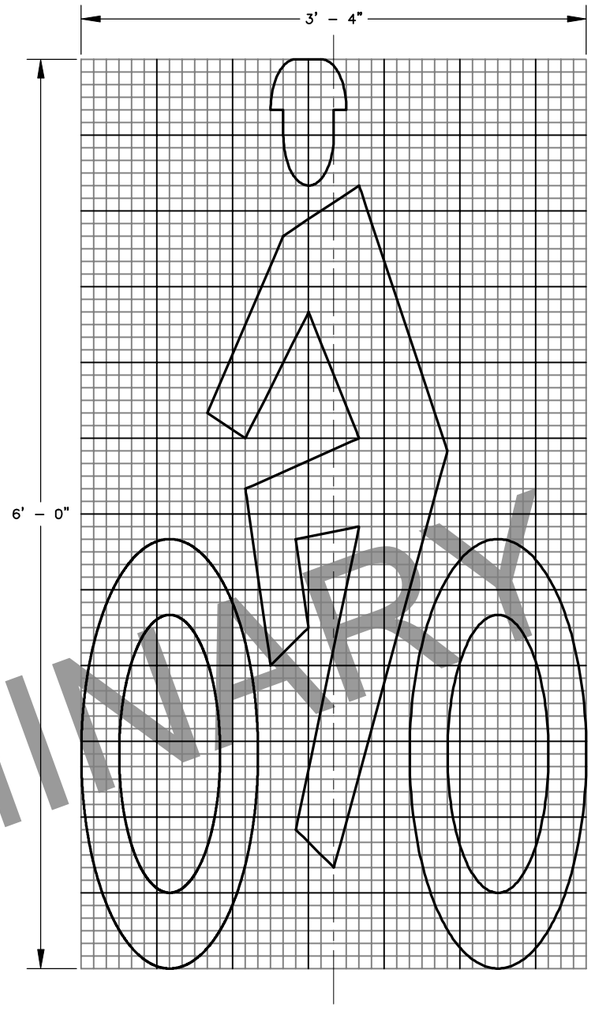
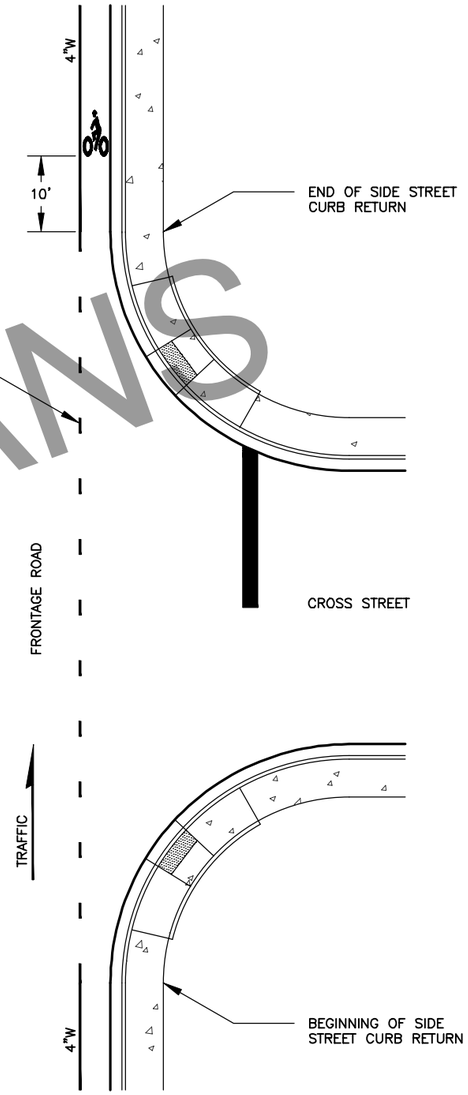


BIKE SYMBOL DETAIL

GRID IS 1" SQUARE



BIKE LANE MARKINGS AT CROSS STREETS

NTS

BIKE LANE SUMMARY

ROADWAY	START STATION	END STATION	REMARKS
OM–1	2103+71	2107+28	BIKE LANE CONTINUES ON ROADWAY BD–2
BD–2	5200+00	5234+54	BIKE LANE CONTINUES ON ROADWAY SA–2
SA–2	3207+02	3217+52	
BD–3	5303+63	5313+20	BIKE LANE CONTINUES ON ROADWAY DI–2
DI–2	4205+49	4217+16	
SA–4	3402+17	3413+41	BIKE LANE CONTINUES ON ROADWAY HD–3
HD–3	6300+00	6312+13	
DI–4	4402+80	4408+89	BIKE LANE CONTINUES ON ROADWAY HD–4
HD–4	6400+00	6406+90	MATCH EXISTING STRIPING TO THE NORTH
DI–1	4100+75	4104+93	BIKE LANE CONTINUES ON ROADWAY BD–4
BD–4	5400+00	5405+00	MATCH EXISTING STRIPING TO THE NORTH
X–OM–EB	2613+35	2615+69	MATCH EXISTING STRIPING TO THE EAST
X–SA–EB	3005+66	3009+45	MATCH EXISTING STRIPING TO THE WEST
X–SA–EB	3017+94	3023+60	
X–SA–WB	3018+23	3023+60	

NOTES:

1. MARKINGS WILL BE WHITE AND WILL BE INLAID METHYL METHACRYLATE WITH 250 MIL THICKNESS
2. PLACE MARKING ON THE DOWNSTREAM SIDE OF EACH APPROACH WHEN SHOWN IN PLANS
3. DO NOT PLACE BIKE MARKINGS WITHIN 100' OF CROSSWALKS AT ROUNDABOUTS. NO NOT PLACE BIKE LANE MARKINGS WITHIN THE FUNCTIONAL AREAS OF ROUNDABOUTS. DO NOT PLACE BIKE LANE MARKINGS WITHIN DRIVEWAYS OR APPROACHES
4. LONGITUDINAL MARKINGS AND BIKE SYMBOLS WILL BE PAID UNDER PAY ITEMS 670.2006.0000 AND 670.2007.0000 RESPECTIVELY
5. DASHES ACROSS SIDE STREETS ONLY, SOLID ACROSS DRIVEWAYS. SEE PLAN SHEETS

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

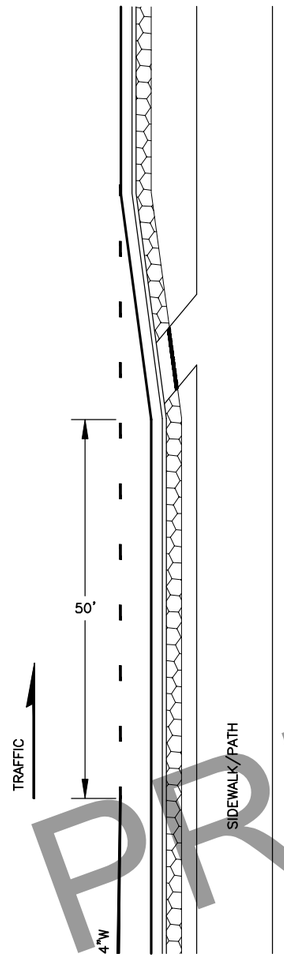
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BIKE LANE MARKING DETAILS

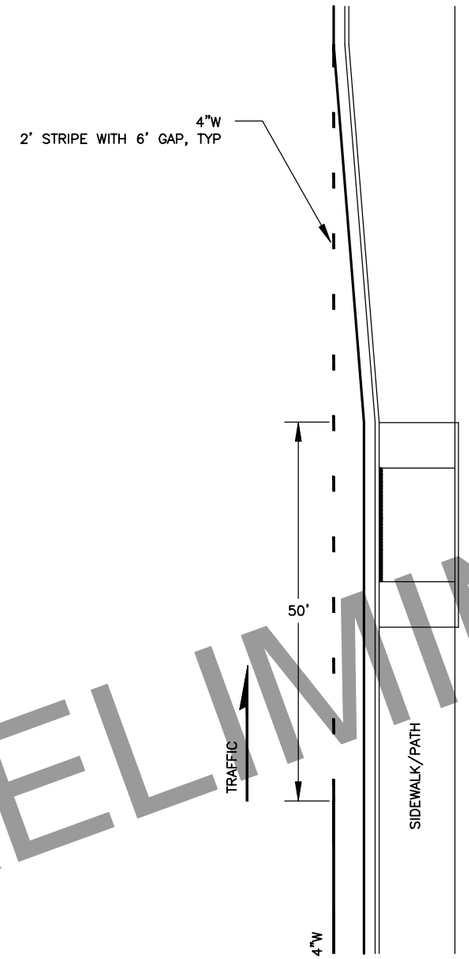
FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655226\D0876333\00012_H28_SIGNSTRIPE.DWG | DATE/TIME | 4/6/2022 11:01 AM | LAYOUT | H28 | DESIGNED | – | CHECKED | – | DRAFTED | –

NO.	DATE	REVISION

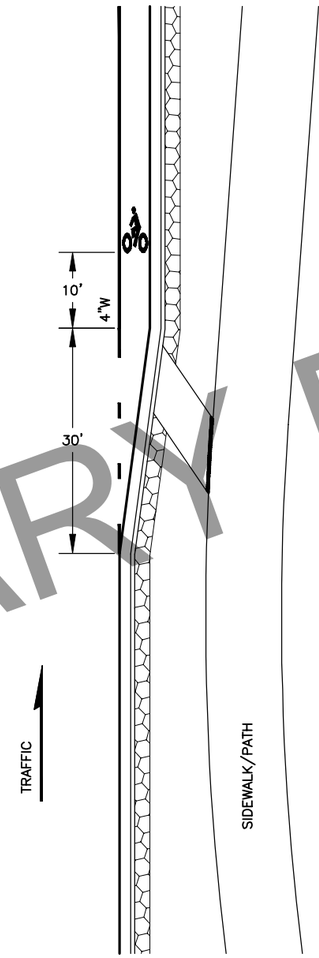
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H29	H39



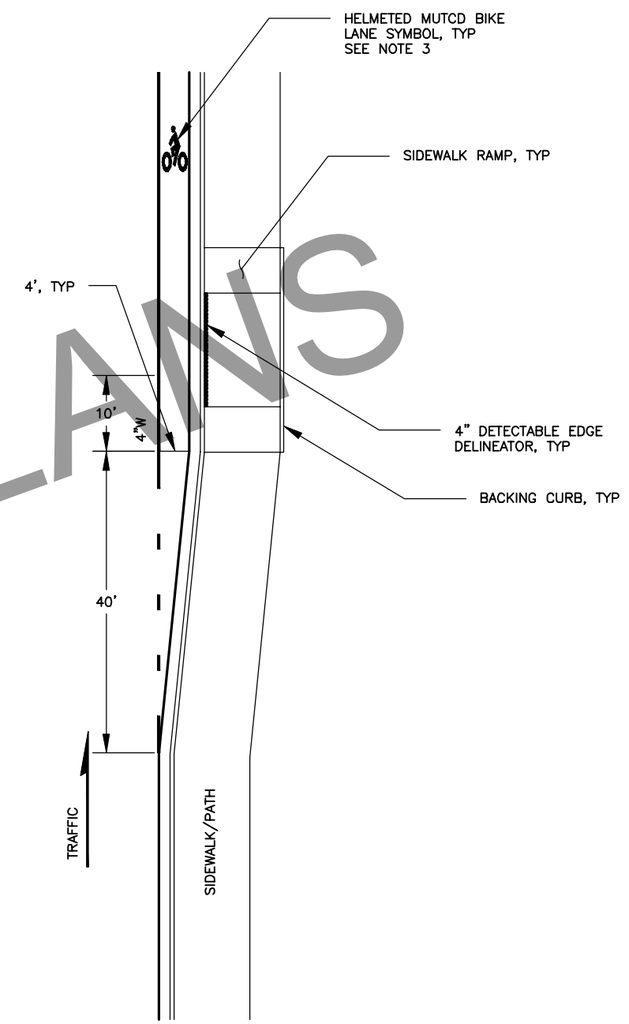
BIKE LANE EXIT
SEPARATED SIDEWALK



BIKE LANE EXIT
ATTACHED SIDEWALK



BIKE LANE ENTRANCE
SEPARATED SIDEWALK



BIKE LANE ENTRANCE
ATTACHED SIDEWALK

BIKE RAMP STRIPING DETAIL

NTS

NOTE:

1. SIDEWALK OFFSET AND WIDTHS VARY. SEE B, E, AND G SHEETS.
2. SEE SHEET E4 FOR BIKE RAMP DETAILS.
3. SEE SHEET H28 FOR BIKE LANE SYMBOL PLACEMENT DETAILS.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

BIKE LANE STRIPING DETAILS

DATE/TIME 4/6/2022 11:23 AM | LAYOUT H29 | DESIGNED | CHECKED | DRAFTED |
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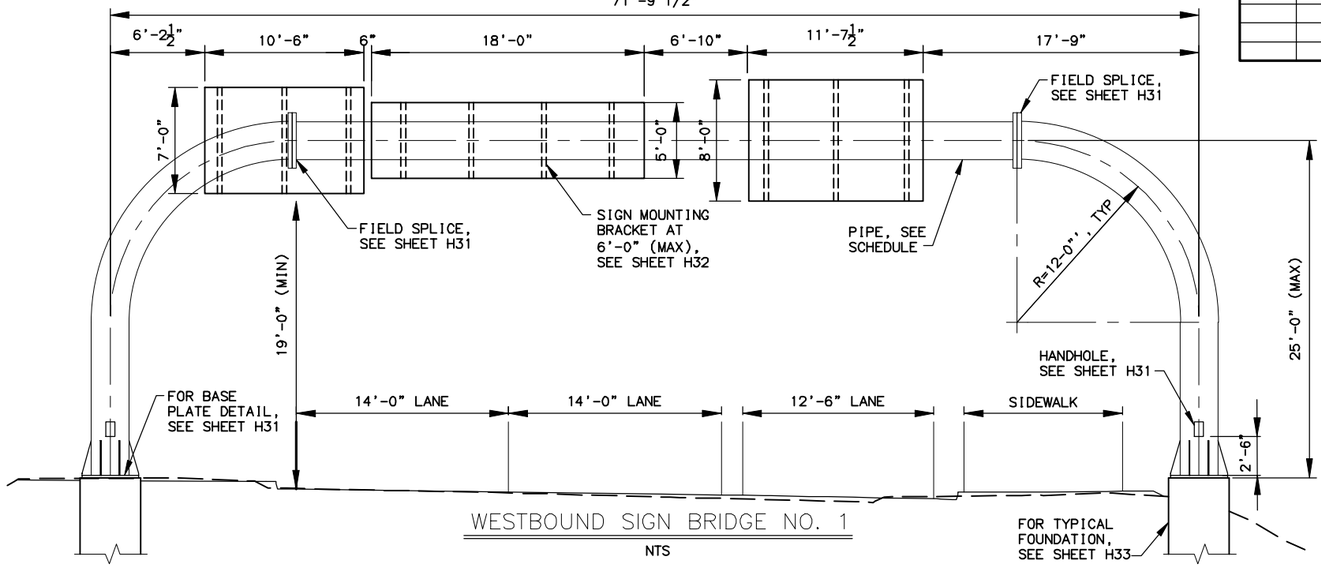
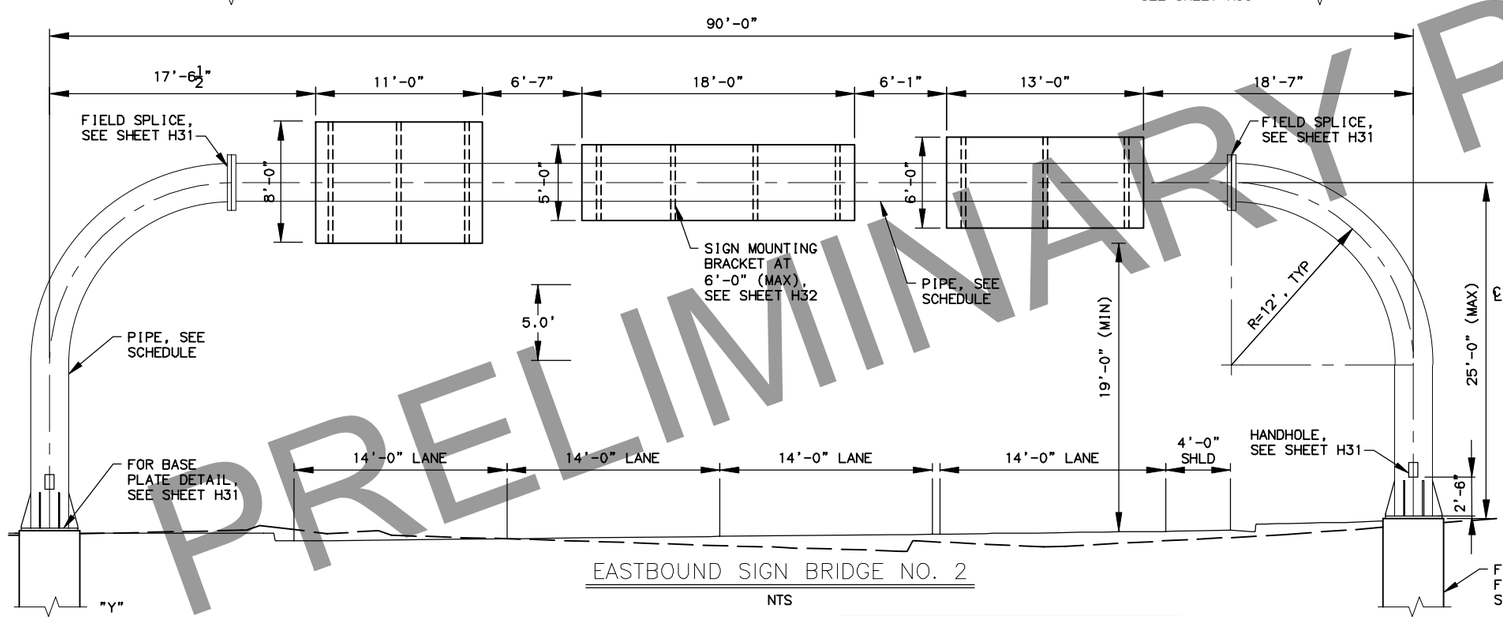
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H30	H39



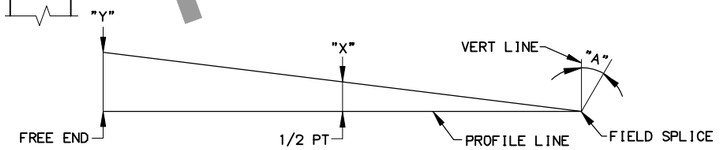
WESTBOUND SIGN BRIDGE NO. 1

NTS



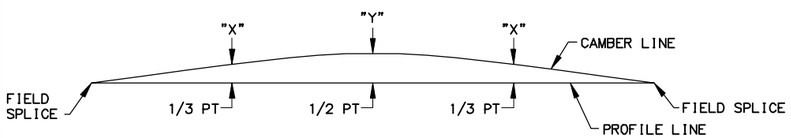
EASTBOUND SIGN BRIDGE NO. 2

NTS



CANTILEVER SIGN CAMBER DIAGRAM

NTS



SIGN BRIDGE CAMBER DIAGRAM

NTS

SIGN STRUCTURE ID MARK	"X" (IN)	"Y" (IN)
SIGN BRIDGE NO. 1	1"	1 1/4"
SIGN BRIDGE NO. 2	1 1/4"	1 1/2"
21	1 1/2"	2 1/2"
40	1 5/8"	2 7/8"
R8	1 1/2"	2 3/8"

1. BUILD CAMBER INTO MAST ARMS. MEMBERS SHALL BE ERECTED SO THAT CAMBER IS PROVIDED ABOVE THE HORIZONTAL LINE THRU FIELD SPLICE.
2. AT CANTILEVER SIGNS THE PIPE FLANGE OF MAST ARM SHALL BE PERPENDICULAR TO IT LONGITUDINAL AXIS. THE PIPE FLANGE OF ELBOW SHALL BE TILTED FROM THE VERTICAL LINE AT AN ANGLE "A".
3. DURING ERECTION THE POSTS OF CANTILEVER SIGNS SHALL BE RAKED AS NECESSARY WITH LEVELING NUTS TO MAKE SIGN PANEL LEVEL.

CAMBER TABLE AND NOTES

NTS

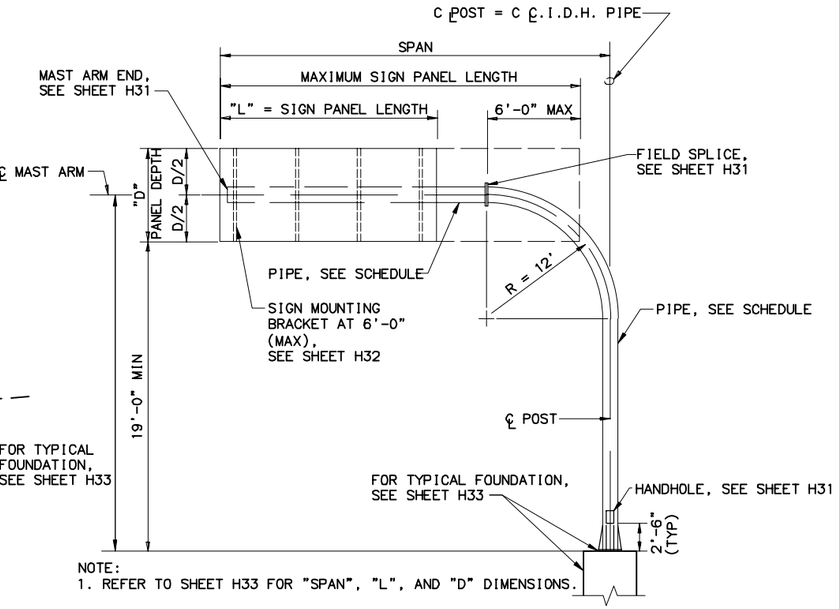
SIGN STRUCTURE ID MARK	NPS (IN)	THICKNESS
SIGN BRIDGE NO. 1	24	5/8"
SIGN BRIDGE NO. 2	30	1/2"
21	30	1/2"
40	30	1/2"
R8	24	5/8"

SIGN STRUCTURE PIPE SIZES

NTS

NOTES:

1. SIGN STRUCTURE DESIGN IS IN ACCORDANCE WITH 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS WITH SEPTEMBER 2013 ERRATA AND 2015 INTERIM REVISIONS.
2. DESIGN WIND SPEED = 120 MPH (3-SEC GUST).
3. ICE LOADING = 3 PSF (UNIFORM LOAD)
4. STRUCTURE WIND DRAG COEFFICENTS:
   STRUCTURE (CYLINDRICAL ELEMENTS), CD = 0.45
   SIGNS, CD = 1.14 TO 1.20 BASED ON ASPECT RATIOS.
5. MATERIAL DATA:
   ARM & POST PIPE ——— ASTM A53, GR B, FY = 35 KSI
   ALL PLATES ——— ASTM A572, GR 50, FY = 50 KSI
   ANGLES, CHANNELS ——— ASTM A36, FY = 36 KSI
   WT- AND W- SHAPES ——— ASTM A992, FY = 50 KSI
   FASTENERS & GALVANZING IN ACCORDANCE WITH ALASKA SSHC
   HIGH-STRENGTH (H.S.) BOLTS —— ASTM F3125, ASTM A325, F_{UT} = 120 KSI
6. POST, BASE PLATES, BEAM AND SPLICES PLATES SHALL MEET CHARPY V-NOTCH REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES. ZONE 3 TEMPERATURE RANGE WITH A CVN IMPACT ENERGY OF 25 FT-LBS @ 10 DEGREES F, CONFORMING TO ASTM A709.
7. HANDHOLE DETAILS ARE TO INDICATE GENERAL DESIGN INTENT ONLY AND MAY BE ALTERED TO CONFORM WITH MANUFACTURERS FABRICATION STANDARDS UPON APPROVAL.
8. FOR ADDITIONAL OVERHEAD SIGN STRUCTURE INFORMATION SUCH AS LOCATION, TOP OF FOUNDATION ELEVATION AND REQUIRED CLEARANCES SEE SHEETS H25 & H26.



NOTE:
1. REFER TO SHEET H33 FOR "SPAN", "L", AND "D" DIMENSIONS.

VERTICAL SINGLE POST CANTILEVER

NTS

STATE OF ALASKA
49TH
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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN BRIDGE AND CANTILEVER SIGN POST STRUCTURES

DRAFTED | CHECKED | DESIGNED | H30 | LAYOUT | 4/5/2022 10:32 PM | DATE/TIME

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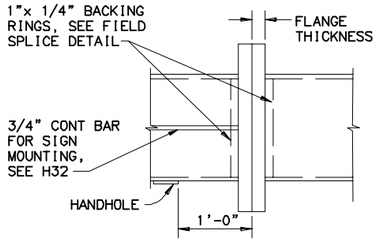
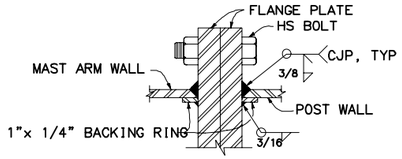
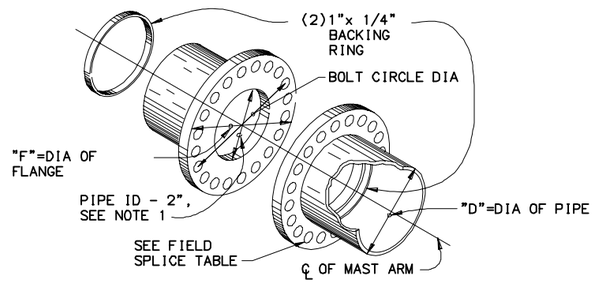
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H31	H39





FIELD SPLICE WELD DETAIL



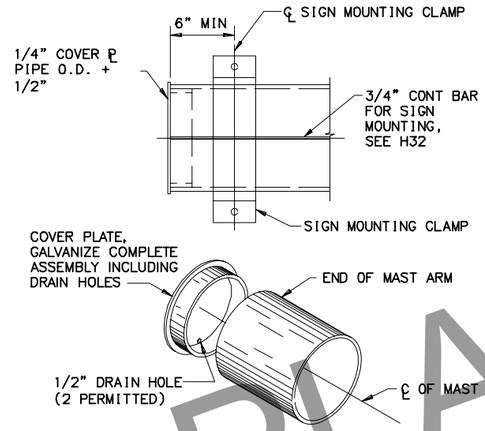
FIELD SPLICE

NTS

FIELD SPLICE TABLE				
NPS ("D")	FLANGE THICKNESS	H.S. BOLTS	BOLT CIRCLE DIA	FLANGE O.D. (F)
24"	2"	(26) 1"	28"	31"
30"	2"	(34) 1"	34"	37"

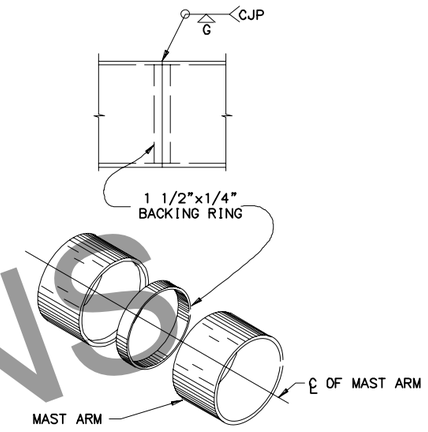
NOTES:

1. PLACE SINGLE THIN BEAD OF SILICONE CAULKING COMPOUND AROUND HOLE BEFORE BOLTING. CAULKING NOT TO INTERFERE WITH FRICTION BETWEEN PLATES IN BOLTED AREA.
2. PRIME AND PAINT POST INTERIOR FROM BASE PLATE TO 6" ABOVE LOWER HANDHOLE UNLESS POST INTERIOR IS GALVANIZED.
3. FIELD SPLICE CONNECTIONS ARE SLIP-CRITICAL CONNECTIONS. SURFACES SHALL BE IN FULL CONTACT WITHOUT GAPS PRIOR TO THE BOLTS BEING SNUG TIGHTENED AND FULLY TENSIONED. THE CONTACT SURFACE IS THE AREA DEFINED A 1-3/8" RADIUS AROUND EACH BOLT.



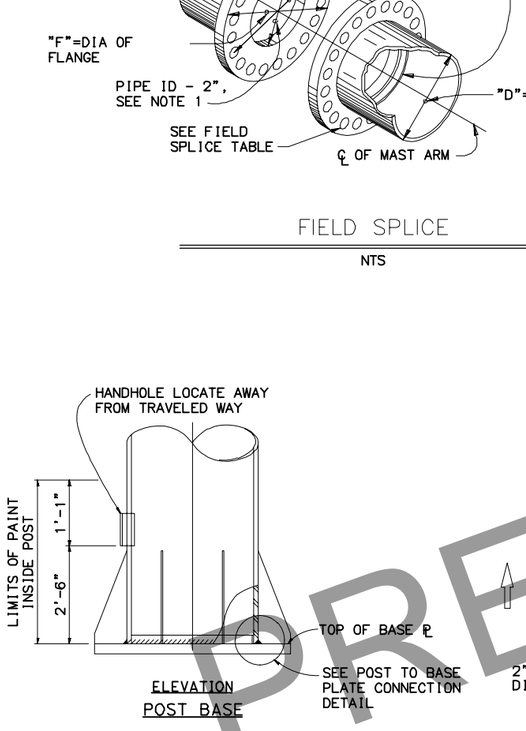
MAST ARM END DETAIL

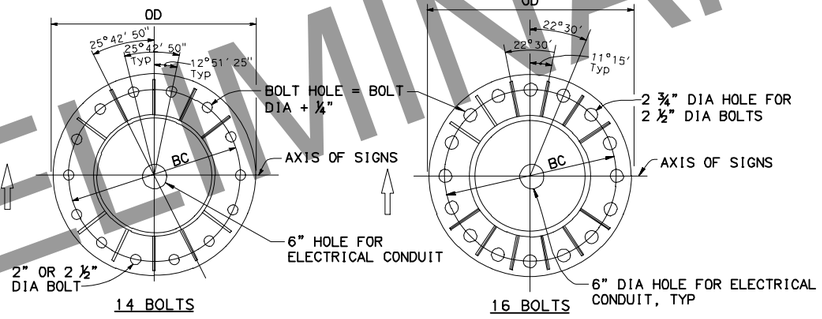
NTS



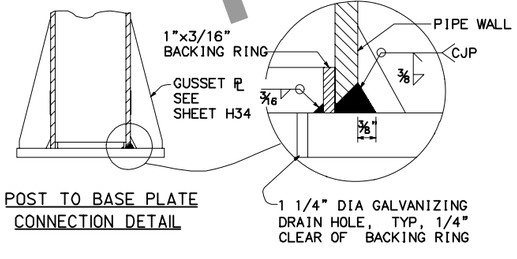
SHOP SPLICE

NTS





BASE PLATE DETAILS
SINGLE AND TWO POST TYPE

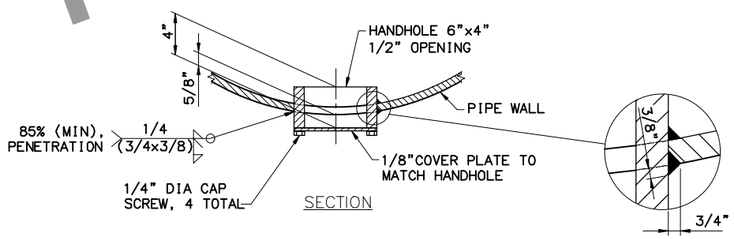


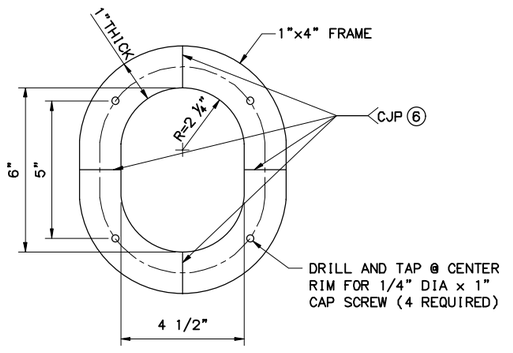
SINGLE POST AND TWO POST TUBULAR

PIPE		BASE P OD AND THICKNESS	ANCHOR BOLTS	
NPS	THICKNESS		BOLT CIRCLE DIA	BOLT TOTALS AND DIA OF BOLT
24	⅝"	3'-6"x2 ½"	2'x10"	14-2 ½"
30	½"	4'-0"x2 ½"	3'x4"	16-2 ½"

BASE PLATE DETAILS

NTS





HANDHOLE DETAIL

NTS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN BRIDGE AND CANTILEVER SIGN POST DETAILS

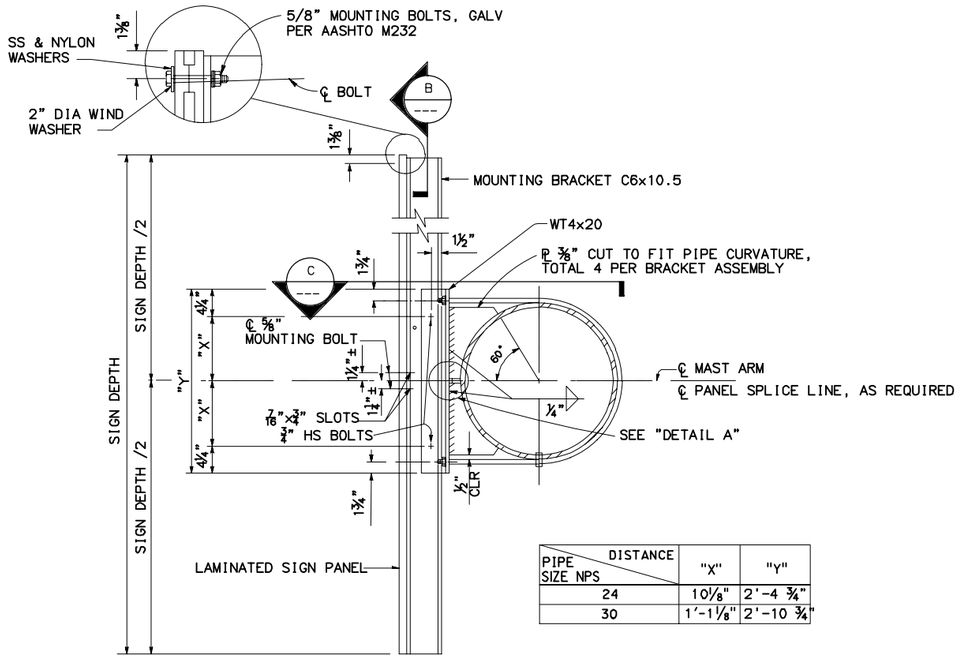
STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

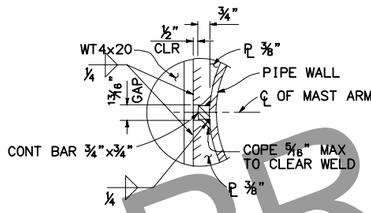
FILE [C:_PW_WORKDIR_DEN001\CH2MHILL_JC0655226\D0876333\000012_H31_SIGNSTRIPE.DWG] DATE/TIME 4/5/2022 10:35 PM LAYOUT H31 DESIGNED CHECKED DRAFTED

NO.	DATE	REVISION

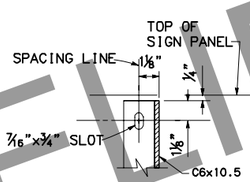
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H32	H39



PIPE SIZE NPS \ DISTANCE	"X"	"Y"
24	10 1/8"	2'-4 3/4"
30	1'-1 1/8"	2'-10 3/4"

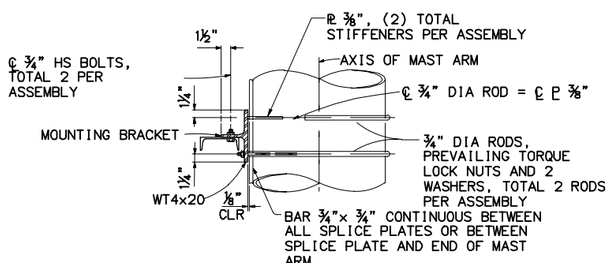


DETAIL A

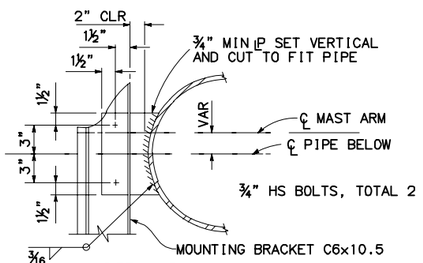


SECTION B

SIGN MOUNTING ANGLE



SECTION C



DETAIL B

MOUNTING BRACKET ON ELBOW

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN MOUNTING DETAILS

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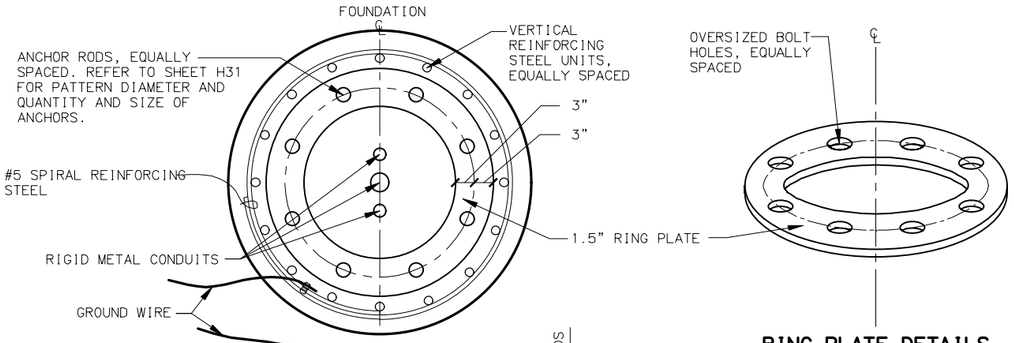
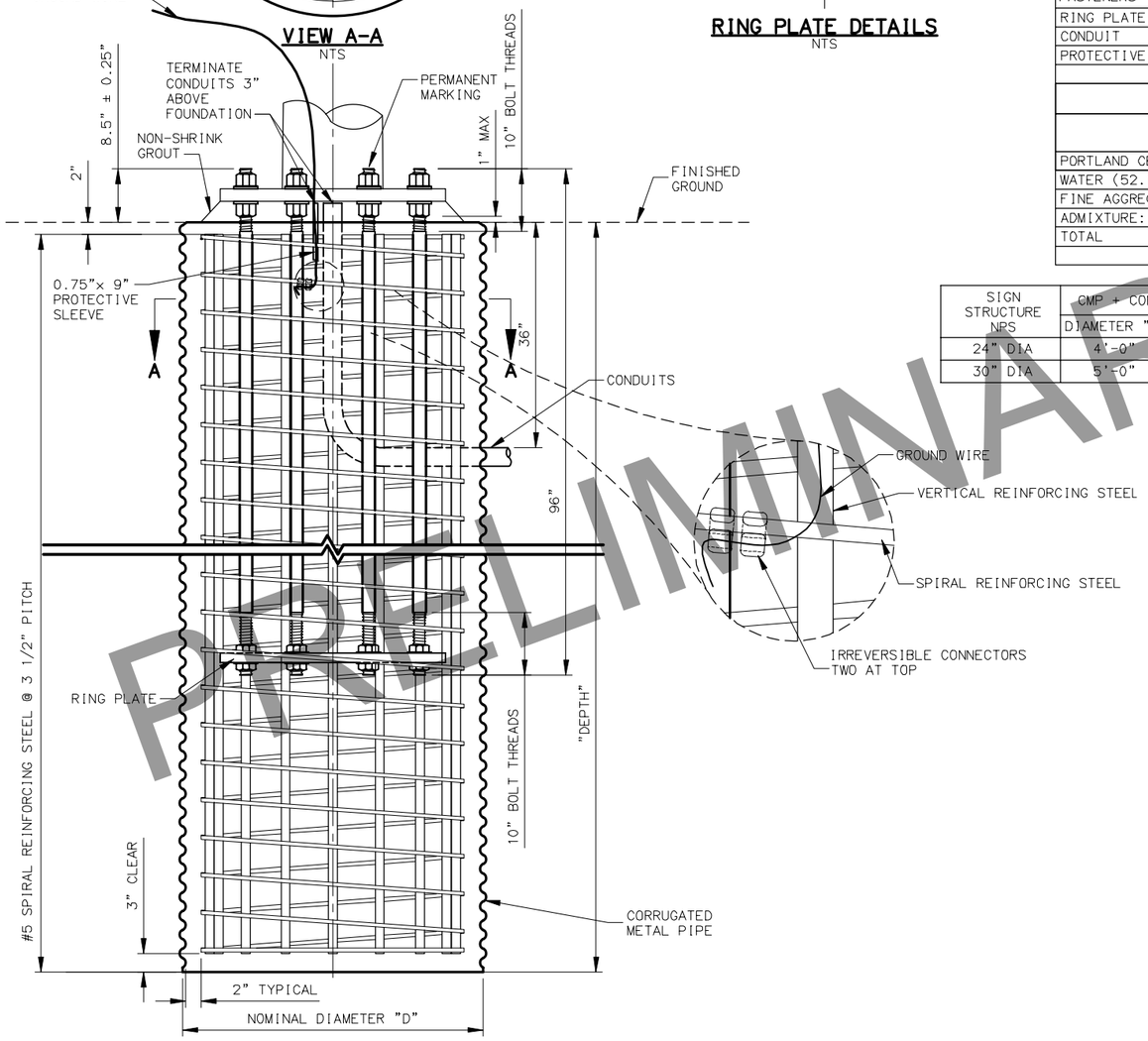
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H33	H39



VIEW A-A
NTS

RING PLATE DETAILS
NTS



FOUNDATION DETAILS
NTS

MATERIAL PROPERTIES		
CONCRETE	CLASS A	f'c = 4000 PSI
CMP	AASHTO M218	14 GA.
VERTICAL REINFORCING STEEL	AASHTO M31	GR 60
SPIRAL REINFORCING STEEL	AASHTO M31	GR 60
GROUND WIRE		#4 AWG.
ANCHOR ROD	ASTM F1554 S2, S3, & S4	GR 105
FASTENERS, WASHERS	AASHTO M293	
FASTENERS, NUTS	AASHTO M292	
FINISH, ANCHOR RODS & FASTENERS	AASHTO M232	
RING PLATE	AASHTO M270	GR 36
CONDUIT	SCH 40	RMC
PROTECTIVE SLEEVE	SCH 40	PVC

SAND SLURRY MIX DESIGN		
ITEM	BATCHING QUANTITIES (CUBIC YARD)	
	BY WEIGHT (LBS.)	BY VOLUME (C.F.)
PORTLAND CEMENT CONCRETE	188	0.96
WATER (52.1 GAL.)	435	6.97
FINE AGGREGATE SSD	3041	18.00
ADMIXTURE: MICROAIR	2.0 OZ.	1.08
TOTAL	3664	27.00

SIGN STRUCTURE NPS	CMP + CONCRETE FOUNDATION			BASE PLATE		ANCHOR BOLTS	
	DIAMETER "D"	DEPTH	VERT BARS	THICKNESS	DIAMETER	CIRCLE DIA	SIZE & QTY
24" DIA	4'-0"	25'-0"	18-#11	2 1/2"	3'-6"	2'-10"	14-2 1/2"
30" DIA	5'-0"	30'-0"	24-#11	2 1/2"	4'-0"	3'-4"	16-2 1/2"

NOTES:

1. IF ANY OF THE FOLLOWING CONDITIONS ARE ENCOUNTERED, STOP DRILLING/EXCAVATING AND CONTACT THE ENGINEER. WATER TABLE ABOVE THE BOTTOM OF FOUNDATION, VERY LOOSE SOILS, ORGANIC SOILS OR, COHESIVE SOILS (CLAY).
2. PLACE FOUNDATION IN DRILLED OR EXCAVATED HOLE WITH CENTERLINE OF FOUNDATION LOCATED AT THE STATION, OFFSET, AND ELEVATION SPECIFIED IN PLANS. GRADE TO DRAIN AWAY FROM FOUNDATION WITHOUT EXPOSING MORE THAN 4" OF THE FOUNDATION FROM THE SURROUNDING GROUND SURFACE.
3. FORM THE FOUNDATION IN CORRUGATED METAL PIPE CONFORMING TO SUBSECTION 707-2.01 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (SSHC).
4. FORM THE SPIRAL REINFORCING STEEL OF #5 REBAR. PROVIDE 1.5 EXTRA TURNS AT EACH END OF THE SPIRAL REINFORCING STEEL. REINFORCING STEEL SHALL NOT BE SPLICED. TIE VERTICAL REINFORCING STEEL TO EACH INTERSECTION OF THE SPIRAL REINFORCING STEEL.
5. CONNECT GROUND WIRE TO ONE OF THE TOP SPIRALS WITH TWO IRREVERSABLE, HYDRAULICALLY SWAGED CONNECTORS AS SHOWN. GROUND WIRE SHALL BE BARE SOLID, STRANDED, OR BRAIDED COPPER. PROTECT GROUND WIRE WITH CONDUIT AS SHOWN AND FILL CONDUIT WITH SILICON SEALANT.
6. THE RING PLATE MAY BE "BUILT UP" OF MULTIPLE STEEL PLATES. MINIMUM THICKNESS FOR ANY ONE PLATE IS 0.5 INCHES. SECURE RING PLATE TO ANCHOR RODS WITH NUTS AND WASHERS ON BOTH SIDES OF RING PLATE AS SHOWN.
7. ANCHOR RODS ARE SUBJECT TO CHARPY V-NOTCH IMPACT TESTING. SUBMIT MILL-CERTIFICATIONS FOR ANCHOR RODS, NUTS AND WASHERS. GALVANIZE ANCHOR RODS FULL LENGTH. PROVIDE PERMANENT MANUFACTURES IDENTIFICATION AND PERMANENT GRADE IDENTIFICATION, ON EACH END OF ANCHOR ROD BY STEEL DIE STAMP. SECURE EXPOSED ANCHOR RODS WITH A "RING PLATE" WHEN NOT IN SERVICE. INSTALL ANCHOR RODS PLUMB. ANCHOR RODS GREATER THAN 1:40 OUT-OF-PLUMB WILL RESULT IN FOUNDATION REJECTION.
8. COMPLETE ALL CONCRETE WORK IN CONFORMANCE WITH SECTIONS 501, 503, AND 660 OF THE SSHC. USE A TUBE WITH A HOPPER HEAD OR OTHER APPROVED DEVICE WHEN DROPPING CONCRETE MORE THAN 5 FEET PER SUBSECTION 501-3.05. VIBRATE CONCRETE DURING PLACEMENT BY MECHANICAL VIBRATION PER SUBSECTION 501-3.05. ENSURE ANCHOR ROD THREADS ARE PROTECTED FROM CONTACT WITH CONCRETE DURING CONCRETE WORK.
9. BACKFILL AND COMPACT ACCORDING TO SECTIONS 204 AND 205, AND SUBSECTIONS 203-3.04 AND 660-3.01 OF THE SSHC. USE SELECT MATERIAL, TYPE A OR SAND SLURRY AS BACKFILL MATERIAL. ENSURE AREA BELOW FOUNDATION MEETS COMPACTION REQUIREMENTS AND IS FREE OF LOOSE MATERIAL AND DEBRIS PRIOR TO CONCRETE WORK.

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SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN STRUCTURE FOUNDATION DETAIL

DRAFTED | CHECKED | DESIGNED | LAYOUT | H33 | DATE/TIME | 4/5/2022 10:29 PM

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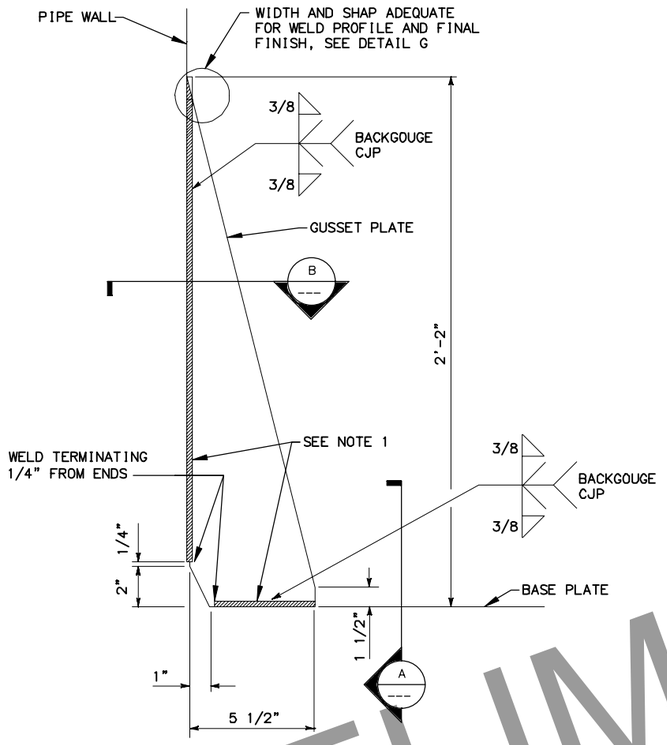
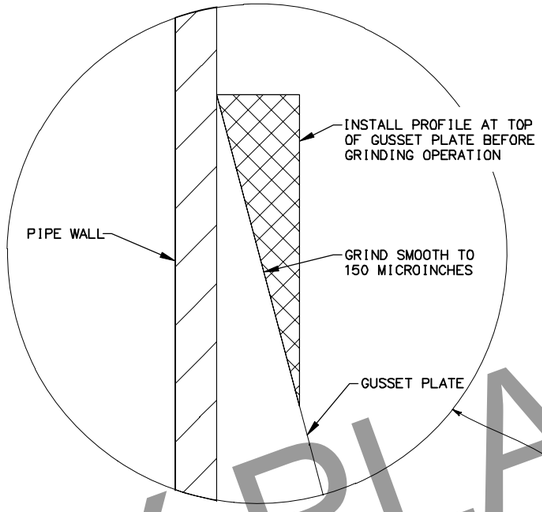
NO.	DATE	REVISION

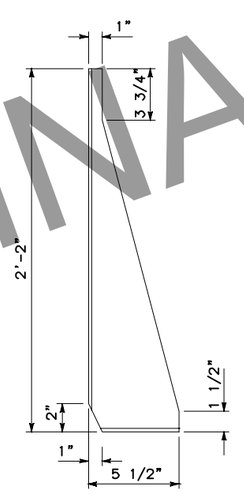
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H34	H39



WELD DETAILS

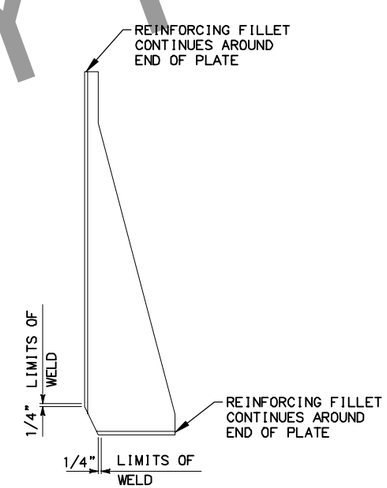


DETAIL G



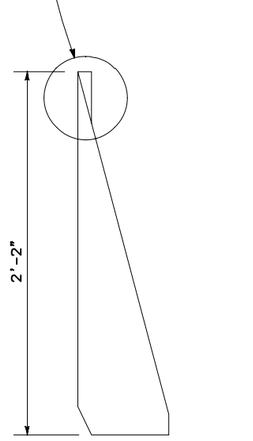
GUSSET PLATE

(INITIAL SHAPE)



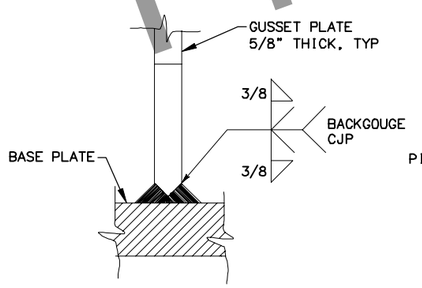
GUSSET PLATE WELDING

(SEE WELD DETAILS)

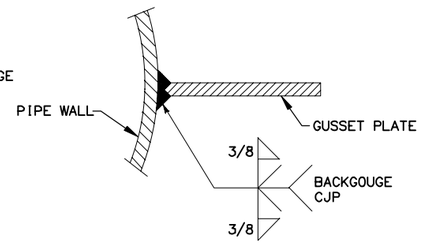


GUSSET PLATE GRINDING

(SEE DETAIL G)



SECTION A



SECTION B

NOTES:

1. ALL GUSSETS TO BE SAME HEIGHT.
2. PROVIDE A SMOOTH TRANSITION FROM GUSSET PLATE TO TUBE.

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

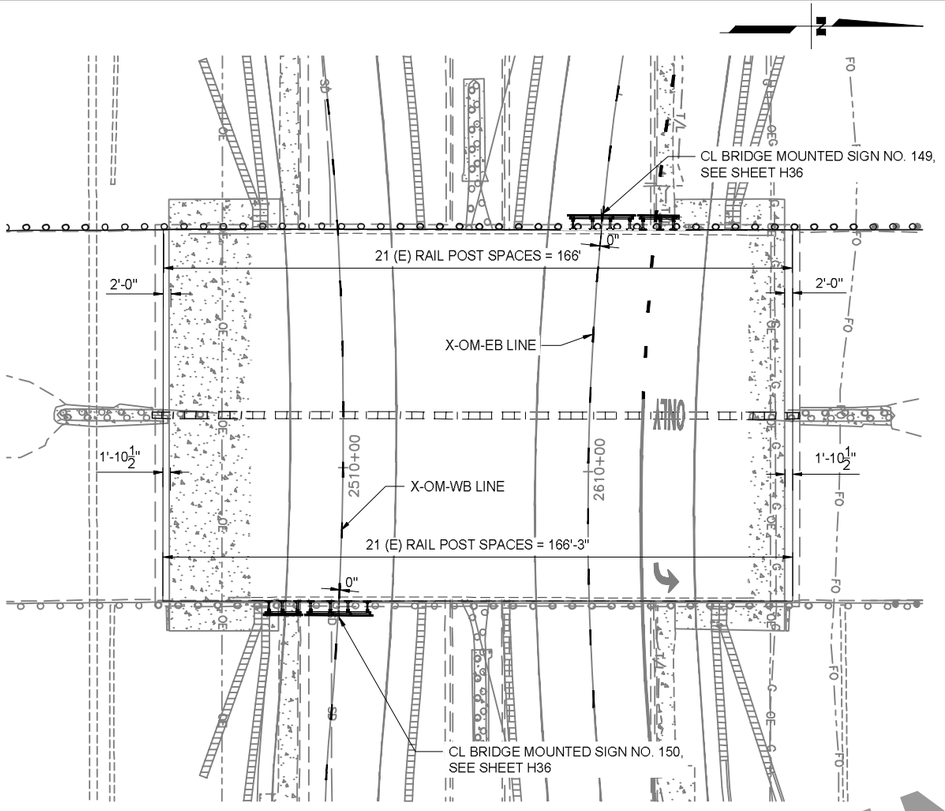
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

GUSSET PLATE DETAILS

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_H34_SIGNSTRIPE.DWG | DATE/TIME 4/5/2022 10:28 PM | LAYOUT H34 | DESIGNED | CHECKED | DRAFTED

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H35	H39



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

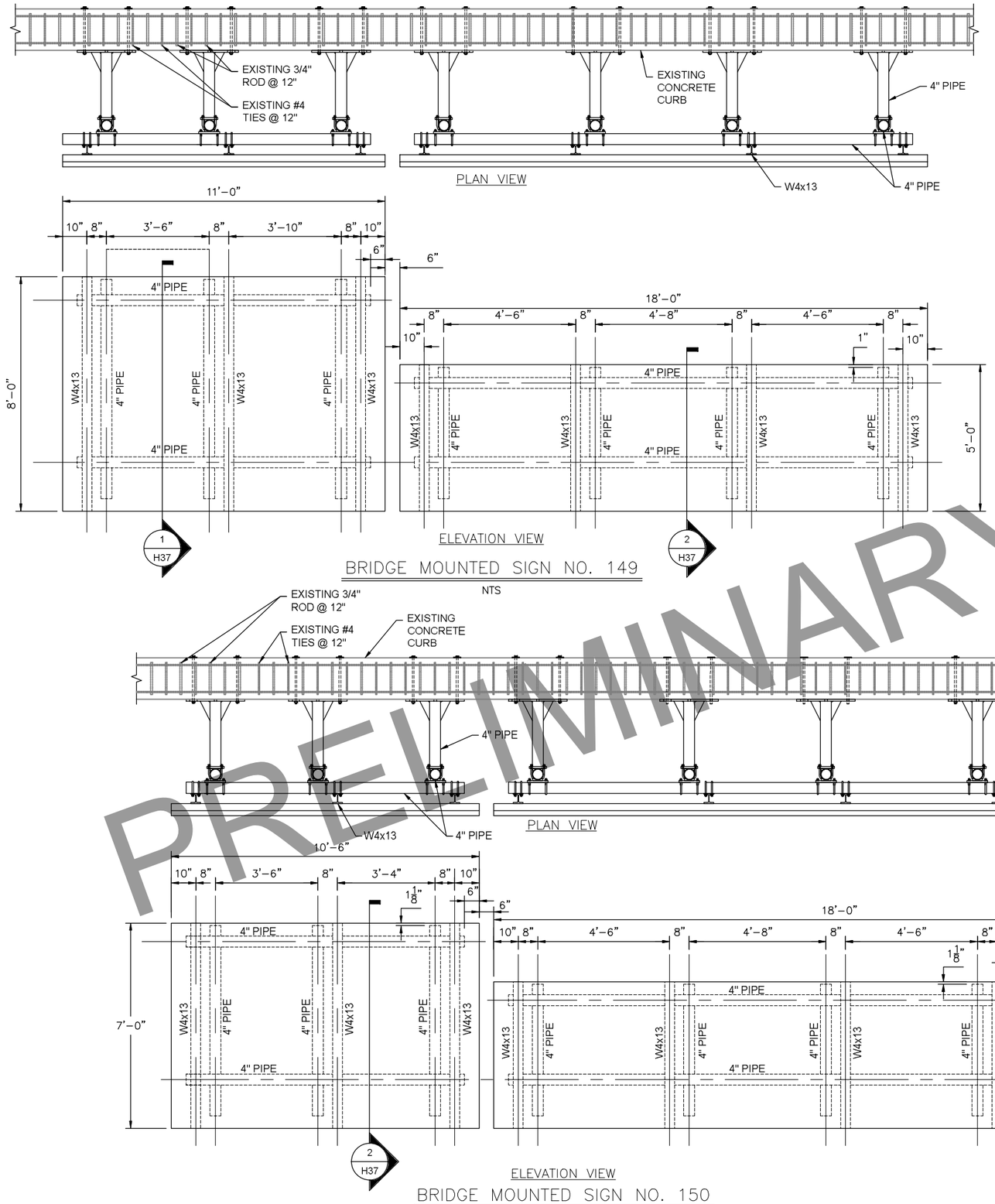
SIGN MOUNT PLAN

DATE/TIME 4/7/2022 11:13 PM | LAYOUT H35 | DESIGNED SK | CHECKED JM | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_H35_SIGNSTRIPE.DWG

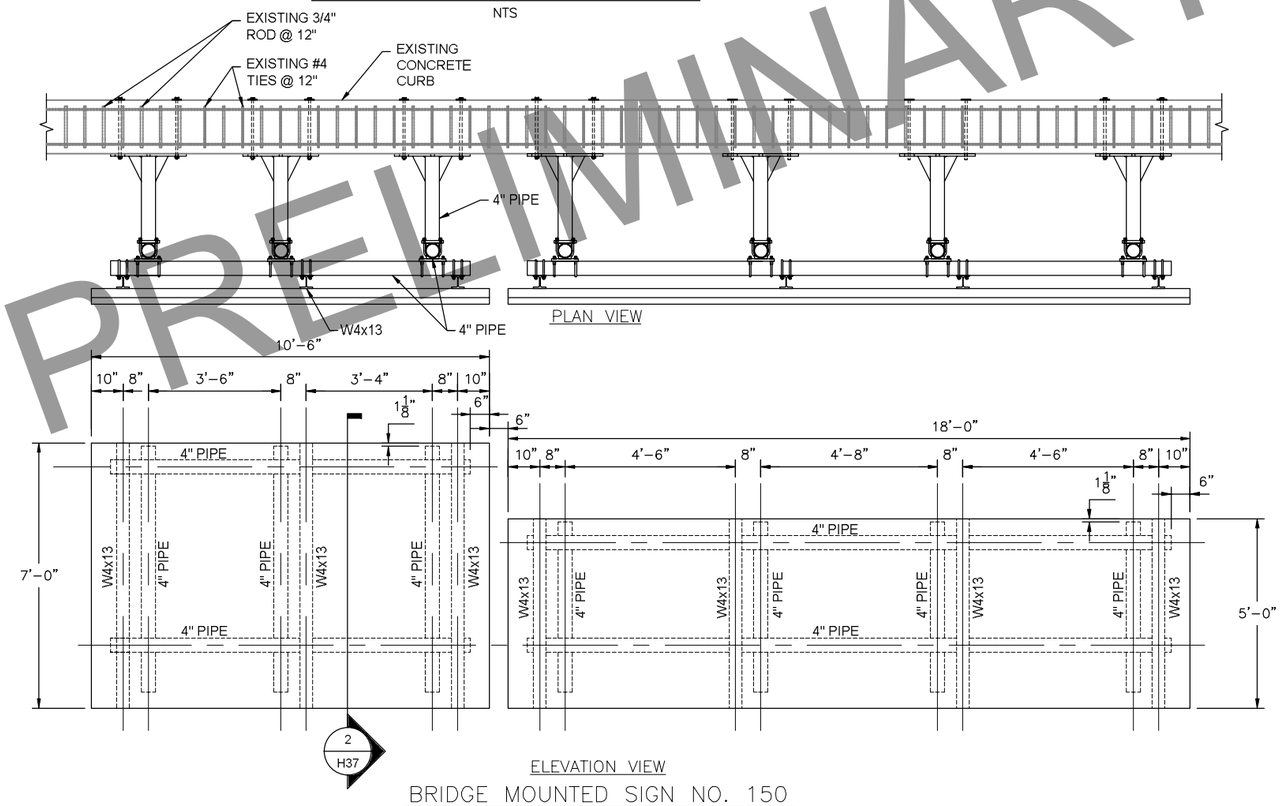
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H36	H39



BRIDGE MOUNTED SIGN NO. 149

NTS



BRIDGE MOUNTED SIGN NO. 150

NTS

NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE ALASKA STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (SSHC), CURRENT EDITION.
2. SIGN SUPPORT DESIGN IS IN ACCORDANCE WITH THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS WITH SEPTEMBER 2013 ERRATA AND 2015 INTERIM REVISIONS.
3. DESIGN WIND SPEED = 120 MPH (3–SEC GUST).
4. ICE LOADING = 3 PSF (UNIFORM LOAD).
5. MATERIAL DATA:
   - PIPES ——— ASTM A53, GR B, FY = 35 KSI, SCH 40
   - ALL PLATES ——— ASTM A572, GR 50, FY = 50 KSI
   - W–SHAPES ——— ASTM A992, FY = 50 KSI
   - FASTENERS & GALVANZING IN ACCORDANCE WITH ALASKA SSHC
   - HIGH–STRENGTH (H.S.) BOLTS—— ASTM F3125, ASTM A325, F_{UT} = 120 KSI
   - BRACING ROD ——— ASTM A307
6. SIZE OF FILLET WELDS SHALL BE 1/4" (MIN) EXCEPT WHERE NOTED OTHERWISE.
7. DIMENSIONS OF EXISTING ELEMENTS ARE BASED ON ORIGINAL CONSTRUCTION DOCUMENTS. THESE DIMENSIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION.
8. ALL U–BOLTS, WASHERS AND LOCK–NUTS SHALL BE STAINLESS STEEL. ALL OTHER PART SHALL BE GALVANIZED.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

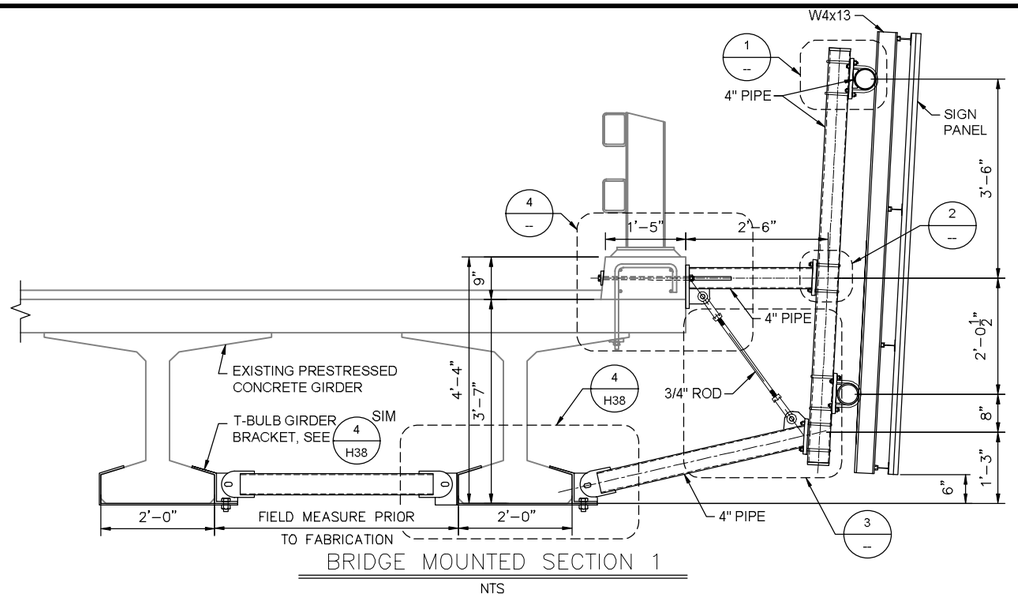
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN MOUNT PLANS, ELEVATIONS AND SECTIONS

DRAFTED | CHECKED | DESIGNED | H36 | LAYOUT | 4/7/2022 11:13 PM | DATE/TIME
FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_H36_SIGNSTRIPE.DWG

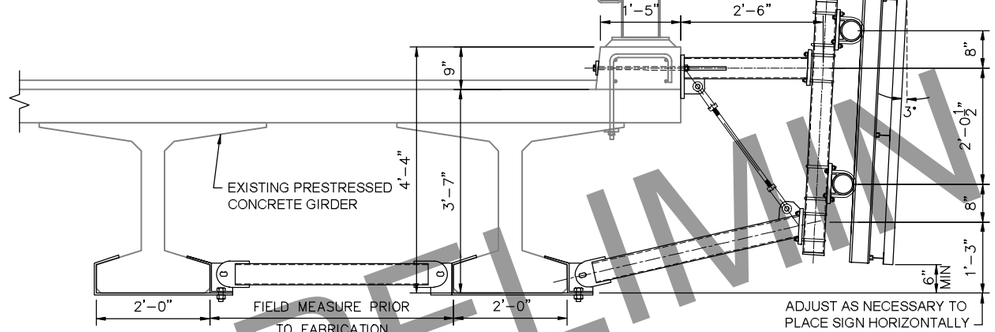
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H37	H39



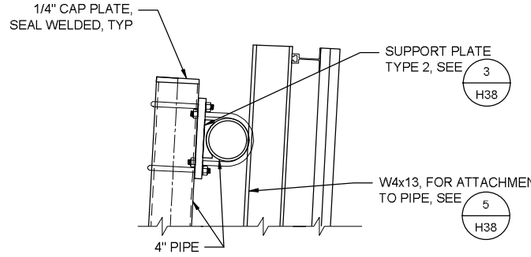
BRIDGE MOUNTED SECTION 1

NTS



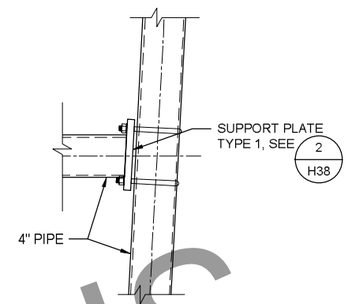
BRIDGE MOUNTED SECTION 2

NTS



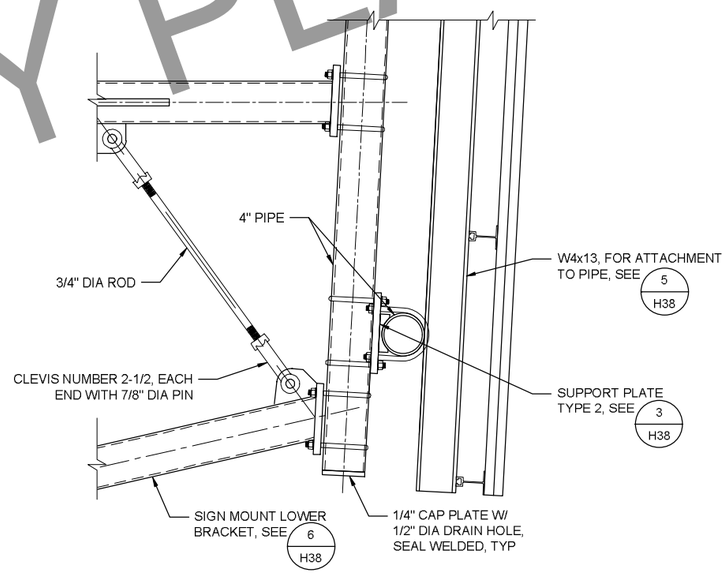
1 BRACKET DETAIL

1 1/2" = 1'-0"



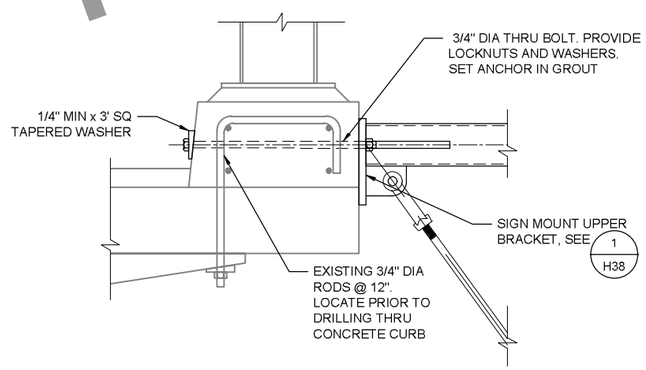
2 BRACKET DETAIL

1 1/2" = 1'-0"



3 BRACKET DETAIL

3" = 1'-0"



4 BRACKET DETAIL

1 1/2" = 1'-0"

STATE OF ALASKA
CERTIFICATION
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

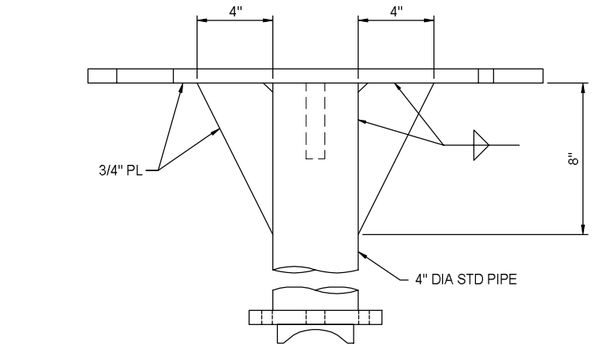
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN MOUNT SECTIONS AND DETAILS

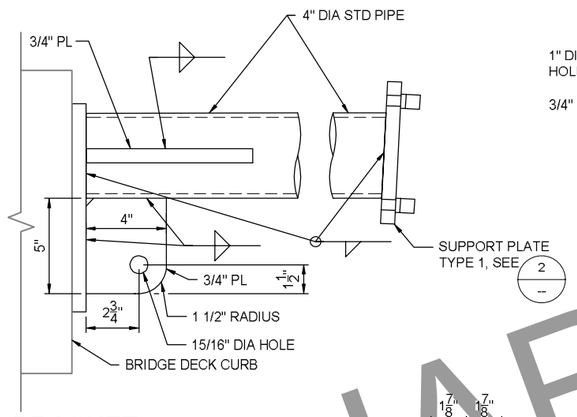
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_H37_SIGNSTRIPE.DWG | DATE/TIME 4/7/2022 11:13 PM | LAYOUT H37 | DESIGNED | CHECKED | DRAFTED

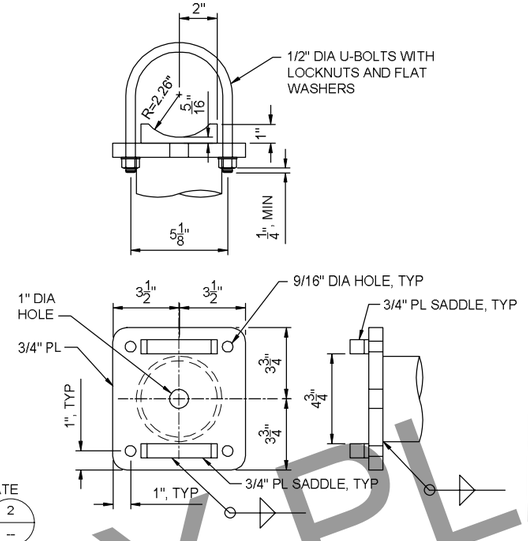
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	H38	H39

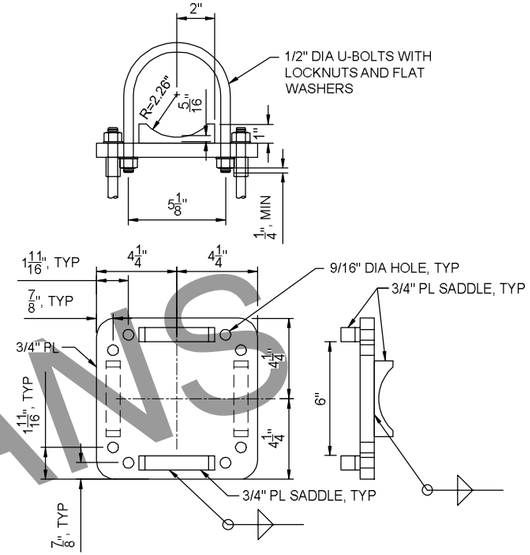


1 SIGN MOUNT UPPER BRACKET
3" = 1'-0"

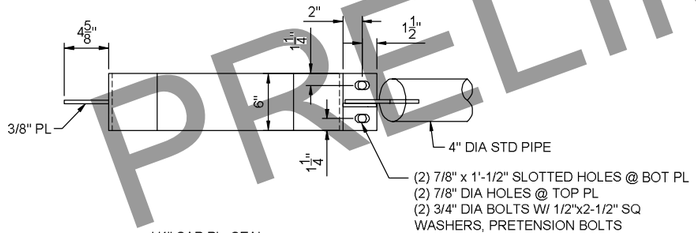


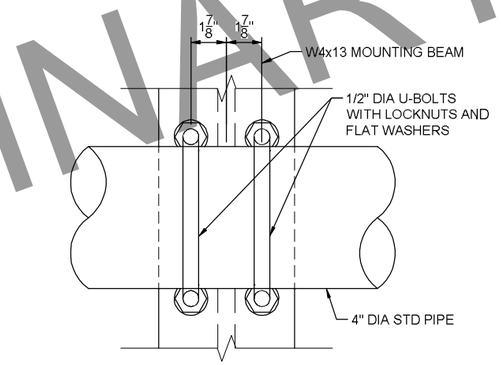


2 SUPPORT PLATE TYPE 1
3" = 1'-0"

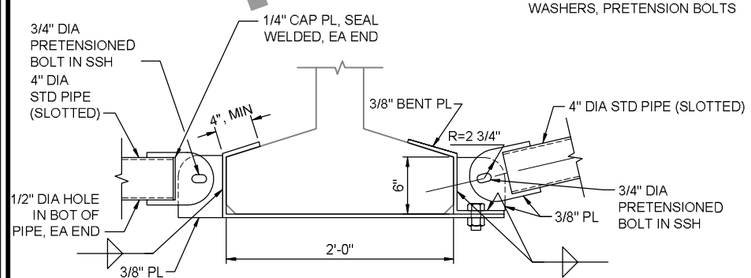


3 SUPPORT PLATE TYPE 2
3" = 1'-0"

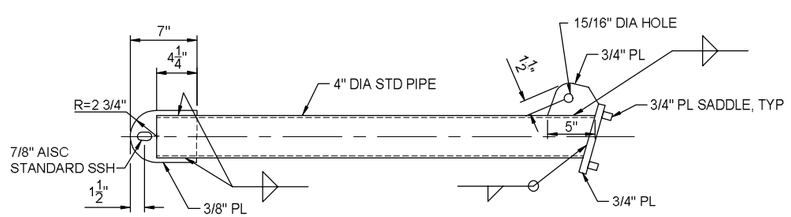




5 PIPE TO W- BEAM CONNECTION
3" = 1'-0"



4 T-BULB GIRDER BRACKET
1 1/2" = 1'-0"
H37



6 SIGN MOUNT LOWER BRACKET ARM
1 1/2" = 1'-0"

STATE OF ALASKA
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APRIL 2022
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JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN MOUNT DETAILS

DRAFTED | CHECKED | DESIGNED | LAYOUT H38 | DATE/TIME 4/7/2022 11:14 PM | FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_H38_SIGNSTRIPE.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	H39	H39

DRAFTED | CHECKED | DESIGNED | H39 | LAYOUT | 4/5/2022 10:34 PM | DATE/TIME

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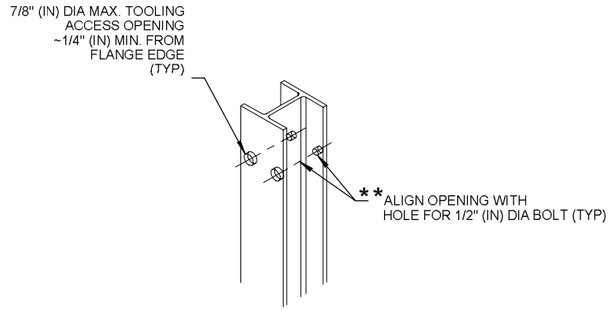
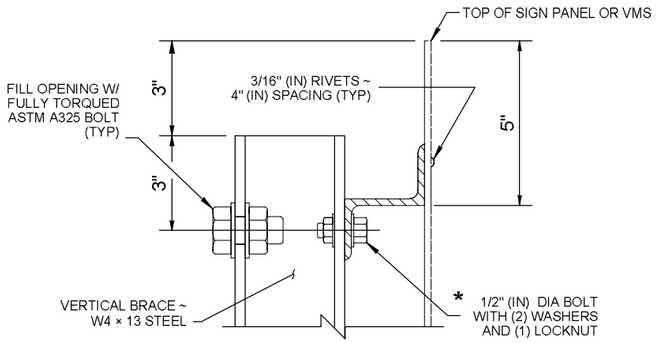


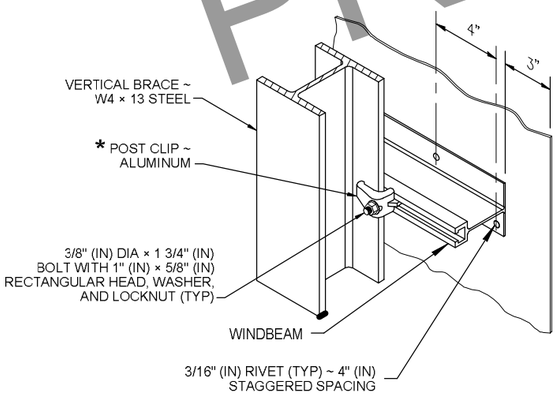
PARTIAL VERTICAL BRACE @ Z-BAR CONNECTION



SECTION (A)

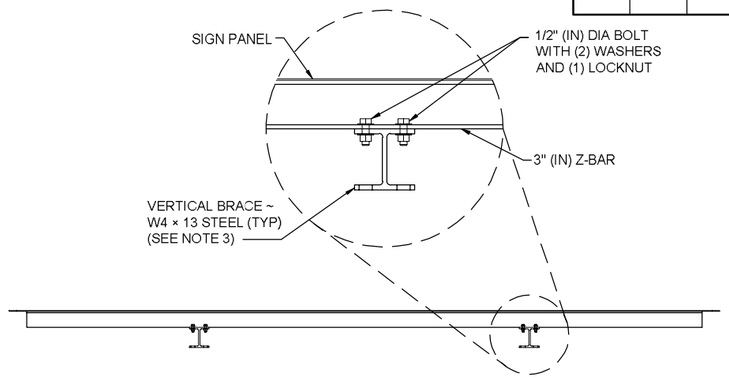
* ATTACH ON BOTH SIDES OF WIDE FLANGE STEEL POST

** TOOLING ACCESS OPENING AND HOLE FOR 1/2" (IN) DIA BOLT MAY BE FIELD DRILLED

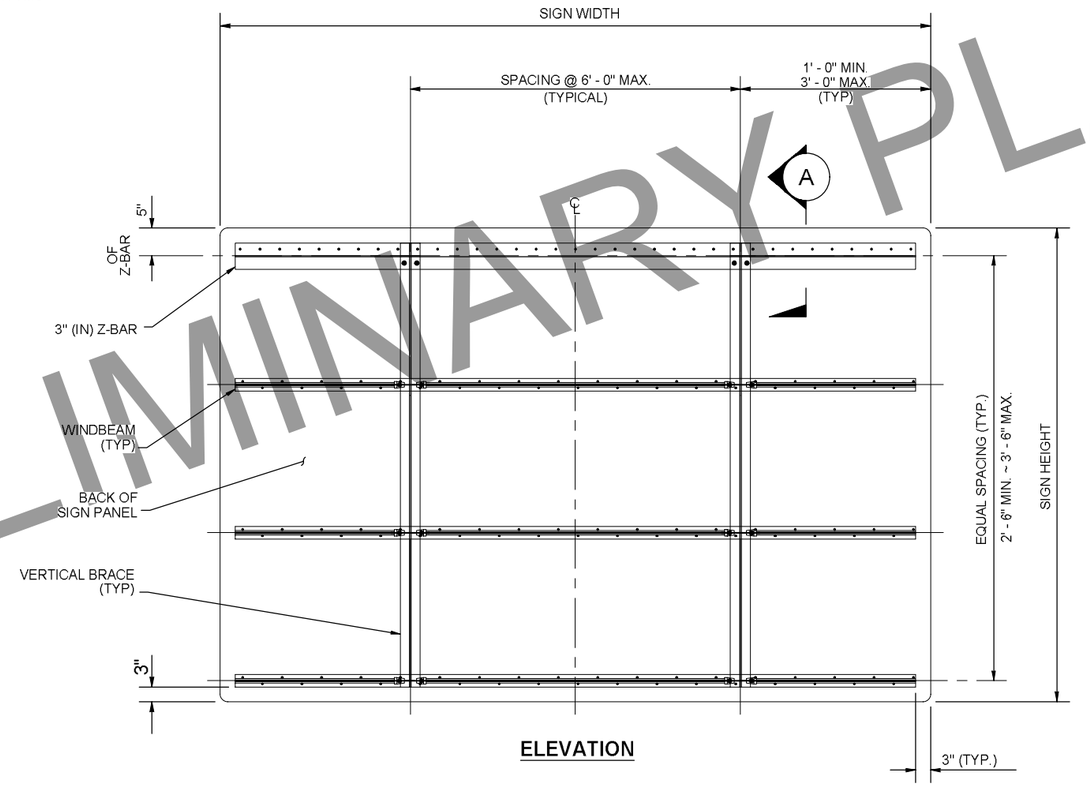


WINDBEAM CONNECTION DETAIL

* ATTACH ON BOTH SIDES OF WIDE FLANGE STEEL POST

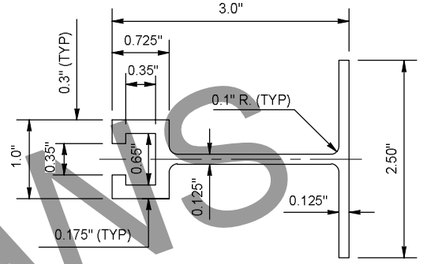


TOP

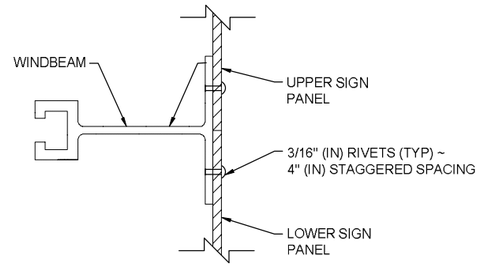


ELEVATION

1. WINDBEAM AND 3" (IN) Z-BAR ARE ALUMINUM. ALL NUTS, BOLTS, WASHERS, AND OTHER HARDWARE SHALL BE STAINLESS STEEL, EXCEPT AS NOTED. GALVANIZE ALL NON-STAINLESS STEEL PARTS.
2. ALL PARTS SHALL BE PLUMB AND SQUARE. BRING ALL PARTS INTO FULL CONTACT WITH EACH OTHER. FASTENERS AND ASSOCIATED HARDWARE SHALL BE IN A SNUG TIGHT CONDITION WHEN ASSEMBLED. BOLTED PARTS SHALL FIT SOLIDLY TOGETHER.



WINDBEAM DETAIL



HORIZONTAL SIGN PANEL SPLICE

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

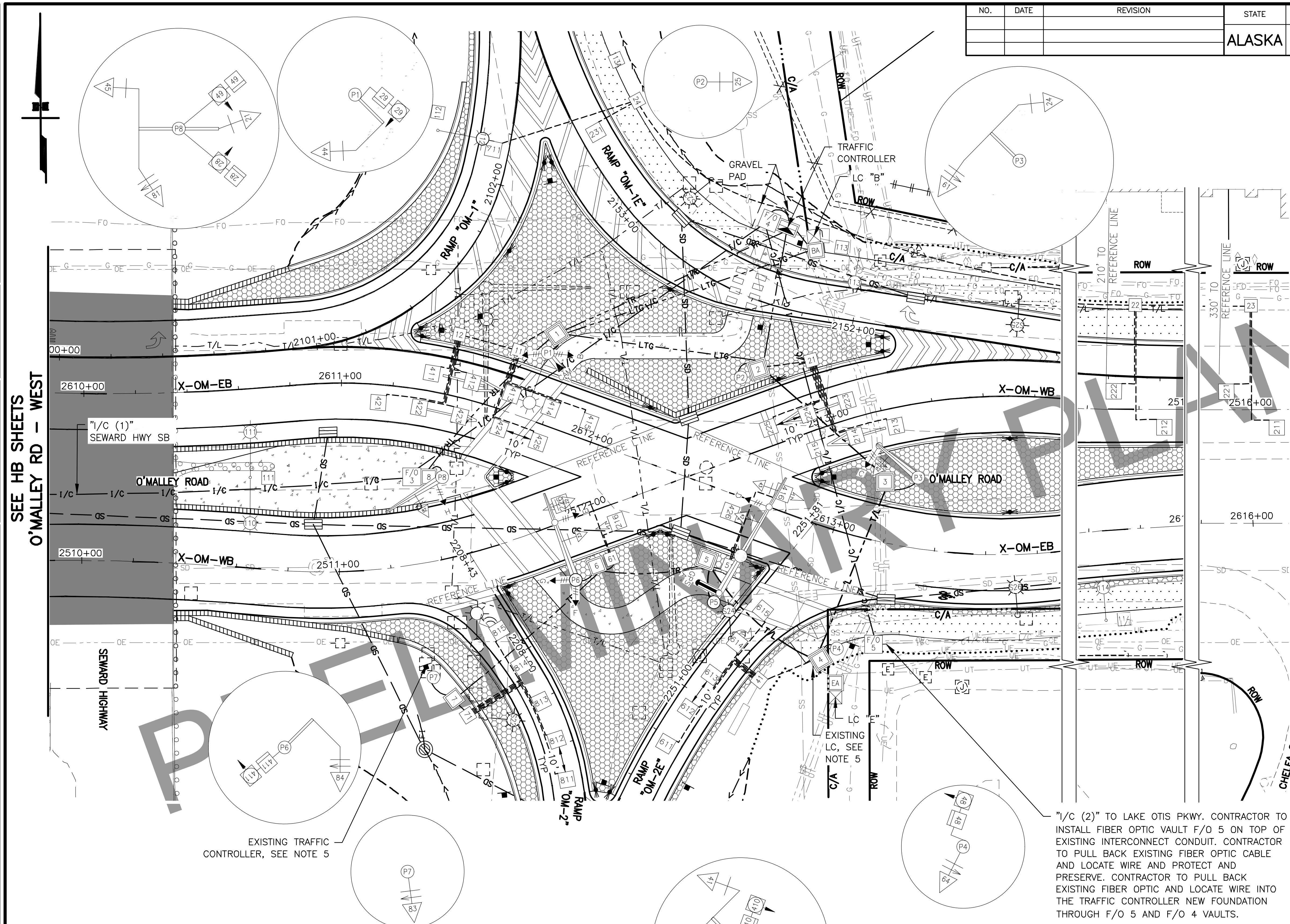
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

OVERHEAD SIGN BRACING AND MOUNTING

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	HA1	HA8



NOTES:

1. REMOVE EXISTING JUNCTION BOXES, CONDUITS, AND CABLES NOT INDICATED FOR REUSE. TRAFFIC SIGNAL POLES AND HARDWARE NOT SCHEDULED FOR REUSE SHALL BE DELIVERED TO MOA YARD AT 3RD AVE. & ORCA ST. (SEE SPECIAL PROVISIONS 660-3.01, GENERAL ITEM 6)
2. SEE ILLUMINATION SHEETS AND SCHEDULES FOR ADDITIONAL ILLUMINATION INFORMATION.
3. P5 MAST ARM CENTERLINE BEARING IS N30° 07' 21.24"E.
4. P6 MAST ARM CENTERLINE BEARING IS N20° 00' 00.00"W.
5. REMOVE, PROTECT ON-SITE, AND RE-INSTALL ON NEW FOUNDATION, SEE FOUNDATION SCHEDULE ON SHEET HA2.

STATE OF ALASKA
49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL SYSTEM PLAN (1 OF 2)
O'MALLEY RD – EAST

FILE C:\DOWL_PW\D0391306\SC-CT-SG-H-ABCDE-62153.DWG | DATE/TIME 4/8/2022 2:04 PM | LAYOUT HA1 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA2	HA8

JUNCTION BOX SCHEDULE

J-BOX	STATION ALIGNMENT	OFFSET	TYPE
BA	"OM-1E" 2152+20.8	27.7' RT	2
1	"X-OM-EB" 2611+73.3	34.9' LT	3
11	"X-OM-EB" 2611+62.0	23.7' LT	1A
12	"X-OM-EB" 2611+41.0	23.7' LT	1A
2	"X-OM-WB" 2512+80.7	29.8' LT	3
21	"X-OM-WB" 2513+00.4	26.2' LT	1A
22	"X-OM-WB" 2514+78.7	40.4' LT	1A
23	"X-OM-WB" 2516+00.0	40.4' LT	1A
24	"OM-1E" 2153+35.5	26.1' RT	1A
3	"X-OM-EB" 2613+15.2	23.2' LT	3
4	"OM-2E" 2251+41.3	35.3' RT	3
41	"OM-2E" 2251+20.0	21.8' RT	1A
5	"X-OM-EB" 2612+57.7	27.4' RT	3
51	"X-OM-EB" 2612+66.6	26.8' RT	1A
6	"X-OM-WB" 2511+95.8	20.4' RT	2
61	"X-OM-WB" 2512+02.1	19.7' RT	1A
7	"OM-2" 2207+98.4	34.8' LT	2
71	"OM-2" 2207+89.5	33.7' LT	1A
8	"X-OM-EB" 2611+41.2	32.8' RT	2

INTERCONNECT VAULT SCHEDULE

VAULT	STATION ALIGNMENT	OFFSET	TYPE
F/O 3	"X-OM-EB" 2611+33.4	34.0' RT	F/O VAULT
F/O 4	"OM-1E" 2152+46.4	30.3' RT	F/O VAULT
F/O 5	"X-OM-EB" 2613+23.7	39.4' RT	F/O VAULT

FOUNDATION SCHEDULE

SHEET	ITEM	STATION ALIGNMENT	OFFSET	STRUCTURE
HA1/HA3	LC "B"	"OM-1E" 2152+21.9	29.9' RT	EXISTING TYPE 1A LOAD CENTER
HA1/HA3	TC	"OM-1E" 2152+36.3	30.4' RT	EXISTING TRAFFIC CONTROLLER
HA1/HA3	P1	"X-OM-EB" 2611+72.5	26.8' LT	SIGNAL POLE 1
HA1/HA3	P2	"X-OM-WB" 2512+73.2	29.1' LT	SIGNAL POLE 2
HA1/HA3	P3	"X-OM-EB" 2613+29.2	27.2' LT	SIGNAL POLE 3
HA1/HA3	P4	"OM-2E" 2251+48.6	37.5' RT	SIGNAL POLE 4
HA1/HA3	P5	"X-OM-EB" 2612+66.1	42.0' RT	SIGNAL POLE 5
HA1/HA3	P6	"X-OM-WB" 2511+86.2	22.8' RT	SIGNAL POLE 6
HA1/HA3	P7	"OM-2" 2208+09.7	37.2' LT	SIGNAL POLE 7
HA1/HA3	P8	"X-OM-EB" 2611+47.3	31.7' RT	SIGNAL POLE 8

LOOP SCHEDULE

LOOP	STATION ALIGNMENT	OFFSET	LOOP	STATION ALIGNMENT	OFFSET
211	"X-OM-WB" 2516+06.8	7.0' RT	411	"X-OM-EB" 2611+36.9	7.0' LT
212	"X-OM-WB" 2514+86.8	7.0' RT	412	"X-OM-EB" 2611+52.4	7.0' LT
213	"X-OM-WB" 2513+21.2	7.0' RT	413	"X-OM-EB" 2611+67.8	7.0' LT
214	"X-OM-WB" 2513+04.7	7.0' RT	414	"X-OM-EB" 2611+83.8	7.0' LT
215	"X-OM-WB" 2512+88.3	7.0' RT	415	"X-OM-EB" 2611+99.8	7.0' LT
216	"X-OM-WB" 2512+06.0	7.0' RT	416	"X-OM-EB" 2612+79.7	7.0' LT
221	"X-OM-WB" 2515+87.3	7.0' LT	421	"X-OM-EB" 2611+17.9	7.0' RT
222	"X-OM-WB" 2514+67.2	7.0' LT	422	"X-OM-EB" 2611+34.5	7.0' RT
223	"X-OM-WB" 2513+05.4	7.0' LT	423	"X-OM-EB" 2611+51.2	7.0' RT
224	"X-OM-WB" 2512+89.7	7.0' LT	424	"X-OM-EB" 2611+67.7	7.0' RT
225	"X-OM-WB" 2512+73.7	7.0' LT	425	"X-OM-EB" 2611+83.7	7.0' RT
226	"X-OM-WB" 2511+88.0	7.0' LT	426	"X-OM-EB" 2612+63.0	7.0' RT
231	"OM-1E" 2153+35.3	6.2' RT	711	"OM-1" 2102+16.1	6.0' LT
611	"OM-2E" 2250+80.2	6.0' RT	811	"OM-2" 2207+48.6	6.0' LT
612	"OM-2E" 2250+96.5	6.0' RT	812	"OM-2" 2207+65.4	6.0' LT
613	"OM-2E" 2251+12.8	6.0' RT	813	"OM-2" 2207+82.3	6.0' LT
614	"OM-2E" 2251+29.0	6.0' RT	814	"OM-2" 2207+98.7	6.0' LT
615	"OM-2E" 2251+45.0	6.0' RT	815	"OM-2" 2208+14.7	6.0' LT

OPTICOM DETECTOR SCHEDULE

LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	MODEL	REMARKS
SIGNAL POLE 1	A	4	W	721	CHANNEL B
SIGNAL POLE 1	B	2	E	721	CHANNEL A
SIGNAL 3 MASTARM	C	6,OLA	SW	721	CHANNEL C
SIGNAL 5 MASTARM	D	4	NW	721	CHANNEL B
SIGNAL 5 MASTARM	GPS A				FOR FUTURE USE
SIGNAL 6 MASTARM	E	2	NE	721	CHANNEL A
SIGNAL POLE 6	F	6,OLA	S	721	CHANNEL C
SIGNAL POLE 6	G	4	W	721	CHANNEL B
SIGNAL 8 MASTARM	H	6,OLA	SE	721	CHANNEL C

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL SYSTEM PLAN (2 OF 2)
O'MALLEY RD – EAST

DATE/TIME 4/8/2022 2:04 PM | LAYOUT HA2 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
FILE C:\DOWL_PW\D0391306\SC-CT-SG-H-ABCDE-62153.DWG

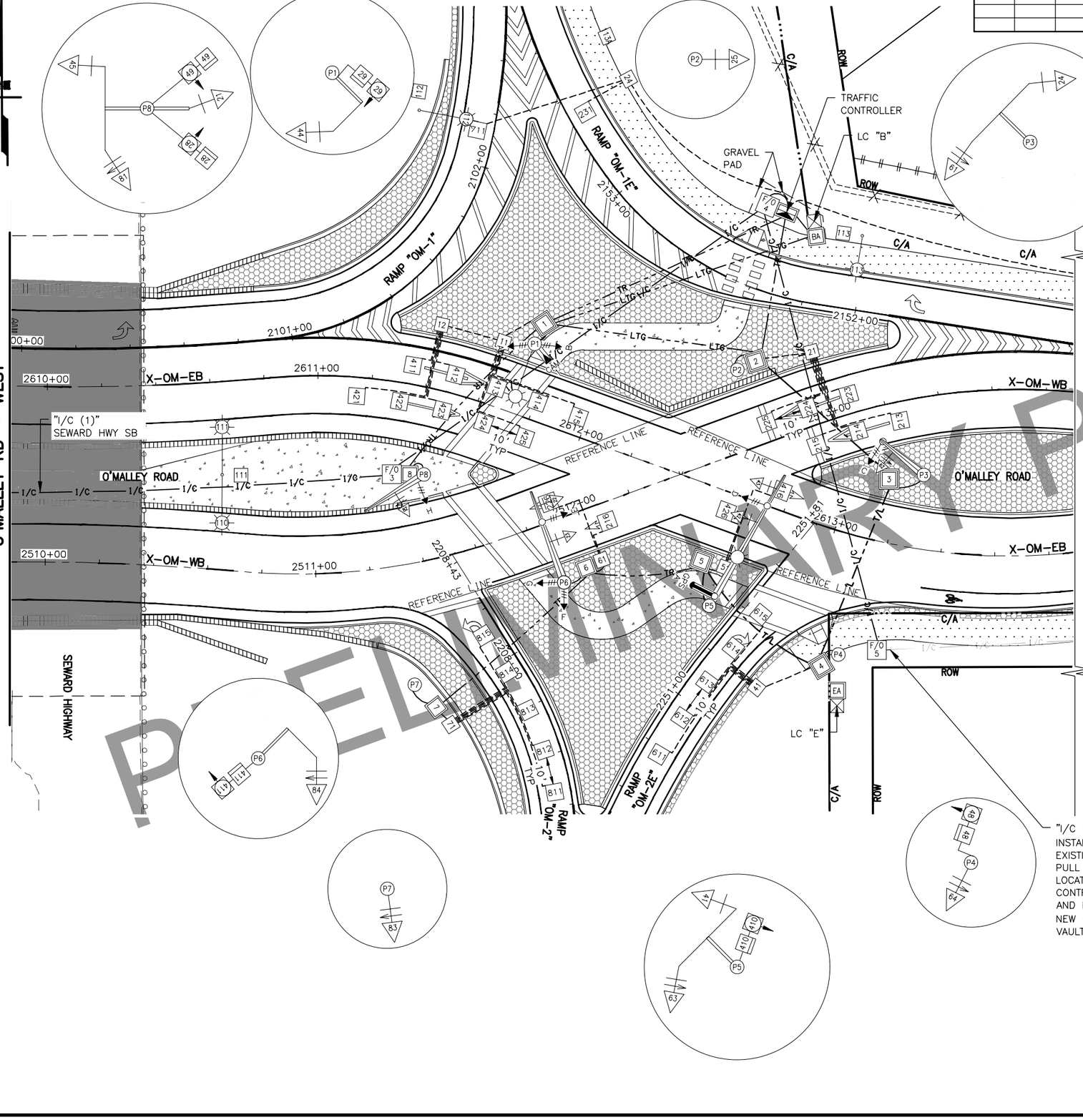
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA3	HA8

ZH | DRAFTED | KK | CHECKED | ZH | DESIGNED | HA3 | LAYOUT | 4/8/2022 2:05 PM | DATE/TIME

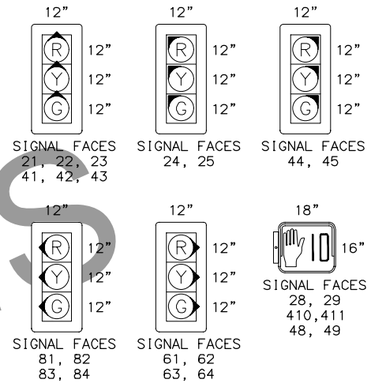
FILE C:\DOWL_PW\D0391306\SC-CT-SG-H-ABCDE-62153.DWG

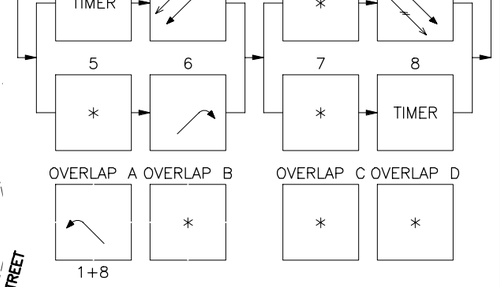
SEE HB SHEETS
O'MALLEY RD - WEST



"I/C (2)" TO LAKE OTIS PKWY. CONTRACTOR TO INSTALL FIBER OPTIC VAULT F/O 5 ON TOP OF EXISTING INTERCONNECT CONDUIT. CONTRACTOR TO PULL BACK EXISTING FIBER OPTIC CABLE AND LOCATE WIRE AND PROTECT AND PRESERVE. CONTRACTOR TO PULL BACK EXISTING FIBER OPTIC AND LOCATE WIRE INTO THE TRAFFIC CONTROLLER NEW FOUNDATION THROUGH F/O 5 AND F/O 4 VAULTS.

SIGNAL HEAD CONFIGURATIONS





PREEMPTION DWELL PHASE VEHICLE MOVEMENTS

CHANNEL A: PHASES 2 + 6
CHANNEL B: PHASES 4 + 8 + OVERLAP A
CHANNEL C: PHASES 1 + 6 + OVERLAP A
CHANNEL D: NOT ENABLED

PHASE DIAGRAM

PEDESTRIAN MOVEMENT
PROTECTED VEHICLE MOVEMENT
UNPROTECTED VEHICLE MOVEMENT
* FUTURE USE/NOT USED

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DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL OPERATIONS PLAN
O'MALLEY RD – EAST

ZH	DRAFTED	KK	CHECKED	ZH	DESIGNED	HA4	LAYOUT	4/8/2022 2:05 PM	DATE/TIME

FILE: C:\DOWL_PW\D0391306\SC-CT-SG-H-ABCDE-62153.DWG

CABLE SCHEDULE

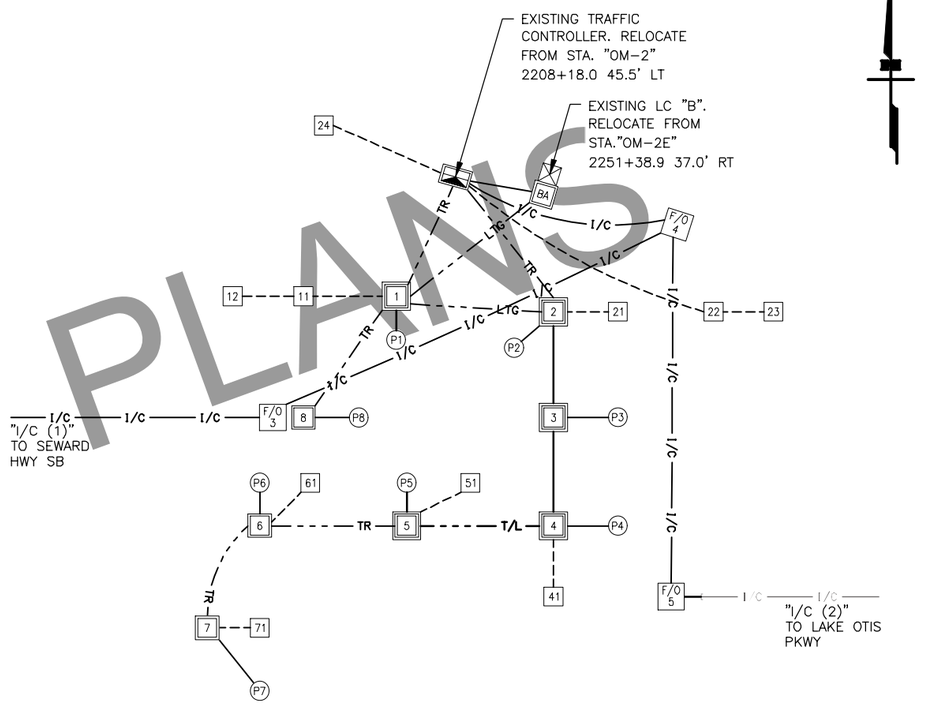
CABLE	CONDUCTOR	J-BOX PATH	LOAD
I/C (1)	FIBER	TC (SEWARD HWY NB) - TC (SEWARD HWY SB)	I/C "SEWARD HWY SB"
I/C (2)	FIBER	TC (SEWARD HWY NB) - TC (LAKE OTIS PKWY)	I/C "LAKE OTIS PKWY"
0	3C6	LC-BA-TC	SIG CKT "B5"
1	3C8	LC-BA-1-P1-1-2-3-4-5-P5	INTXL CKT "B2/4"
2A	3C20	TC-1-P1	PRE A (B)
2B	3C20	TC-2-3-4-5-6-P6	PRE A (E)
3A	3C14	TC-1-P1	PRECON (B)
3B	3C14	TC-2-3-4-5-6-P6	PRECON (E)
4A	3C20	TC-1-P1	PRE B (A)
4B	3C20	TC-2-3-4-5-P5	PRE B (D)
4C	3C20	TC-2-3-4-5-6-P6	PRE B (G)
5A	3C14	TC-1-P1	PRECON (A)
5B	3C14	TC-2-3-4-5-P5	PRECON (D)
6A	3C20	TC-2-3-P3	PRE C (C)
6B	3C20	TC-2-3-4-5-6-P6	PRE C (F)
6C	3C20	TC-1-8-P8	PRE C (H)
7A	3C14	TC-2-3-P3	PRECON (C)
7B	3C14	TC-2-3-4-5-6-P6	PRECON (F)
7C	3C14	TC-1-8-P8	PRECON (H)
10	CAT5E	TC-1-P1	PTZ CAMERA
10B	1070	TC-2-3-4-5-P5	GPS/RADIO UNIT
21	7C14	TC-1-8-P8	HEAD 21
22	7C14	TC-2-3-4-5-6-P6	HEAD 22
23	7C14	TC-2-3-4-5-6-P6	HEAD 23
24	7C14	TC-2-3-P3	HEAD 24
25	7C14	TC-2-P2	HEAD 25
26	3C14	TC-1-8-P8	PEDB 28
27	3C14	TC-1-P1	PEDB 29
28	5C14	TC-1-8-P8	PEDI 28
29	5C14	TC-1-P1	PEDI 29
41	7C14	TC-2-3-4-5-P5	HEAD 41
42	7C14	TC-2-3-4-5-P5	HEAD 42
43	7C14	TC-2-3-4-5-P5	HEAD 43
44	7C14	TC-1-P1	HEAD 44
45	7C14	TC-1-8-P8	HEAD 45
46A	3C14	TC-2-3-4-5-P5	PEDB 410
46B	3C14	TC-2-3-4-5-6-P6	PEDB 411
47A	3C14	TC-2-3-4-P4	PEDB 48
47B	3C14	TC-1-8-P8	PEDB 49
48A	5C14	TC-2-3-4-5-P5	PEDI 410
48B	5C14	TC-2-3-4-5-6-P6	PEDI 411
49A	5C14	TC-2-3-4-P4	PEDI 48
49B	5C14	TC-1-8-P8	PEDI 49
61	7C14	TC-2-3-P3	HEAD 61
62	7C14	TC-2-3-P3	HEAD 62
63	7C14	TC-2-3-4-5-P5	HEAD 63
64	7C14	TC-2-3-4-P4	HEAD 64
81	7C14	TC-1-8-P8	HEAD 81
82	7C14	TC-1-8-P8	HEAD 82
83	7C14	TC-2-3-4-5-6-7-P7	HEAD 83
84	7C14	TC-2-3-4-5-6-P6	HEAD 84
211	7PR18	TC-22-23	LOOPS 211-212,221-222
213	7PR18	TC-2-21	LOOPS 213-215,223-225
216	7PR18	TC-2-3-4-5-6-61	LOOPS 216,226
231	7PR18	TC-24	LOOPS 231,711
411	7PR18	TC-1-11-12	LOOPS 411,412,421-423
413	7PR18	TC-1-11	LOOPS 413-415,424,425
416	7PR18	TC-2-3-4-5-51	LOOPS 416,426
611	7PR18	TC-2-3-4-41	LOOPS 611-615
811	7PR18	TC-2-3-4-5-6-7-71	LOOPS 811-815

CONDUIT SCHEDULE

RUN #	CONDUIT		CABLES	DESTINATION
BA-TC	2	RMC	0	TC POWER
BA-1	2	RMC	1	INTXL
TC-F/O (4)	2	HDPE	I/C(1), I/C(2)	F/O (4)
F/03-F/04	2	RMC	I/C (1)	SEWARD HWY SB
F/02-F/03	2	HDPE	I/C (1)	SEWARD HWY SB
F/04-F/05	2	RMC	I/C (2)	LAKE OTIS PKWY
TC-1	3	RMC	3A,5A,7C,21,28,29,44,45,49B,81,82	JBOX 1,8
	2	RMC	2A,4A,6C,10,26,27,47B,411,413	JBOX 1,8
	3	RMC	SPARE	SPARE
TC-2	3	RMC	7A,24,25,49A,61,62,64	JBOX 2-4
	2	RMC	6A,47A,213,611	JBOX 2-4
	3	RMC	3B,5B,7B,22,23,41,42,43,48A,48B,63,83,84	JBOX 5-7
	3	RMC	2B,4B,4C,6B,10B,46A,46B,216,416,811	JBOX 5-7
	3	RMC	SPARE	SPARE
TC-22	2	RMC	211/	WB DETECTION
TC-24	2	RMC	231	NB COUNT LOOPS
1-P1	3	RMC	2A,3A,4A,5A,10,27,29,44	POLE 1
	2	RMC	1(IN), 1(OUT)	INTXL
	2	RMC	SPARE	SPARE
1-2	2	RMC	1	INTXL
1-8	3	RMC	7C,21,28,45,49B,81,82	JBOX 8
	2	RMC	6C,26,47B	JBOX 8
	3	RMC	SPARE	SPARE
1-11	2	RMC	411,413	EB DETECTION
11-12	2	RMC	411	EB DETECTION
2-P2	2	RMC	25	POLE 2
	2	RMC	SPARE	SPARE
2-3	3	RMC	7A,24,49A,61,62,64	JBOX 3-4
	2	RMC	6A,47A,611	JBOX 3-4
	3	RMC	3B,5B,7B,22,23,41,42,43,48A,48B,63,83,84	JBOX 5-7
	3	RMC	2B,4B,4C,6B,10B,46A,46B,216,416,811	JBOX 5-7
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
2-21	2	RMC	213	WB DETECTION
22-23	2	RMC	211	WB DETECTION
3-P3	3	RMC	6A,7A,24,61,62	POLE 3
	2	RMC	SPARE	SPARE
3-4	3	RMC	49A,64	JBOX 4
	2	RMC	47A,611	JBOX 4
	3	RMC	3B,5B,7B,22,23,41,42,43,48A,48B,63,83,84	JBOX 5-7
	3	RMC	2B,4B,4C,6B,10B,46A,46B,216,416,811	JBOX 5-7
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
4-P4	2	RMC	47A,49A,64	POLE 4
	2	RMC	SPARE	SPARE
4-5	3	RMC	3B,5B,7B,22,23,41,42,43,48A,48B,63,83,84	JBOX 5-7
	3	RMC	2B,4B,4C,6B,10B,46A,46B,216,416,811	JBOX 5-7
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
4-41	2	RMC	611	NB DETECTION
5-P5	3	RMC	4B,5B,10B,41,42,43,46A,48A,63	POLE 5
	2	RMC	1	INTXL
	2	RMC	SPARE	SPARE
5-6	2	RMC	3B,7B,22,23,48B,83,84	JBOX 6-7
	2	RMC	2B,4C,6B,46B,216,811	JBOX 6-7
	2	RMC	SPARE	SPARE
5-51	2	RMC	416	EB DOWNSTREAM LOOPS
6-P6	3	RMC	2B,3B,4C,6B,7B,22,23,46B,48B,84	POLE 6
	2	RMC	SPARE	SPARE
6-7	2	RMC	83	JBOX 7
	2	RMC	811	JBOX 7
	2	RMC	SPARE	SPARE
6-61	2	RMC	216	WB DOWNSTREAM LOOPS
7-P7	2	RMC	83	POLE 7
	2	RMC	SPARE	SPARE
7-71	2	RMC	811	NB DETECTION
8-P8	3	RMC	6C,7C,21,26,28,45,47B,49B,81,82	POLE 8
	2	RMC	SPARE	SPARE

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA4	HA8



WIRING DIAGRAM NOTES:

1. UNLESS OTHERWISE NOTED, INSTALL BARE 1#8 GROUND IN ALL CONDUITS. EXCEPT THOSE CONDUITS THAT CONTAIN LARGER CONDUCTORS. IN THIS CASE, INSTALL WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR.
2. STREET LIGHTING CONDUCTORS NOT SHOWN IN CABLE SCHEDULE FOR CLARITY, SEE HL SHEETS.

INTERCONNECT NOTES:

1. IN F/O VAULT "4", PROVIDE TWO 6-FIBER DROP CABLES WITH INTEGRAL PATCH AND PIGTAIL. IN F/O VAULT, SPLICE ONE DROP CABLE TO FIBERS #1-#6 ON THE FIBER OPTIC CABLE GOING TO THE EAST. SPLICE SECOND DROP CABLE TO FIBERS #1-#6 ON THE FIBER OPTIC CABLE GOING TO THE WEST. FIBERS #7-#12 OF BOTH CABLES SHALL BE SPLICED TOGETHER. CUT AND END PROTECT FIBERS #13-#72 GOING TO THE EAST AND WEST.
2. MOUNT THE PATCH PANEL TO THE BACK INSIDE WALL OF THE UPPER PORTION OF THE CONTROLLER CABINET FOUNDATION, CONFIRM MOUNTING LOCATION WITH THE MOA SIGNAL ELECTRONICS PERSONNEL PRIOR TO INSTALLATION.
3. INSTALL RMC CONDUIT AT ALL ROADWAY CROSSINGS.
4. AVOID USING CONDUIT ELBOW FITTINGS IN SYSTEM. WHEN CONDUIT ELBOW FITTINGS ARE NECESSARY, PROVIDE SPECIAL LARGE RADIUS ELBOW FITTINGS WITH A MINIMUM RADIUS OF 36".

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

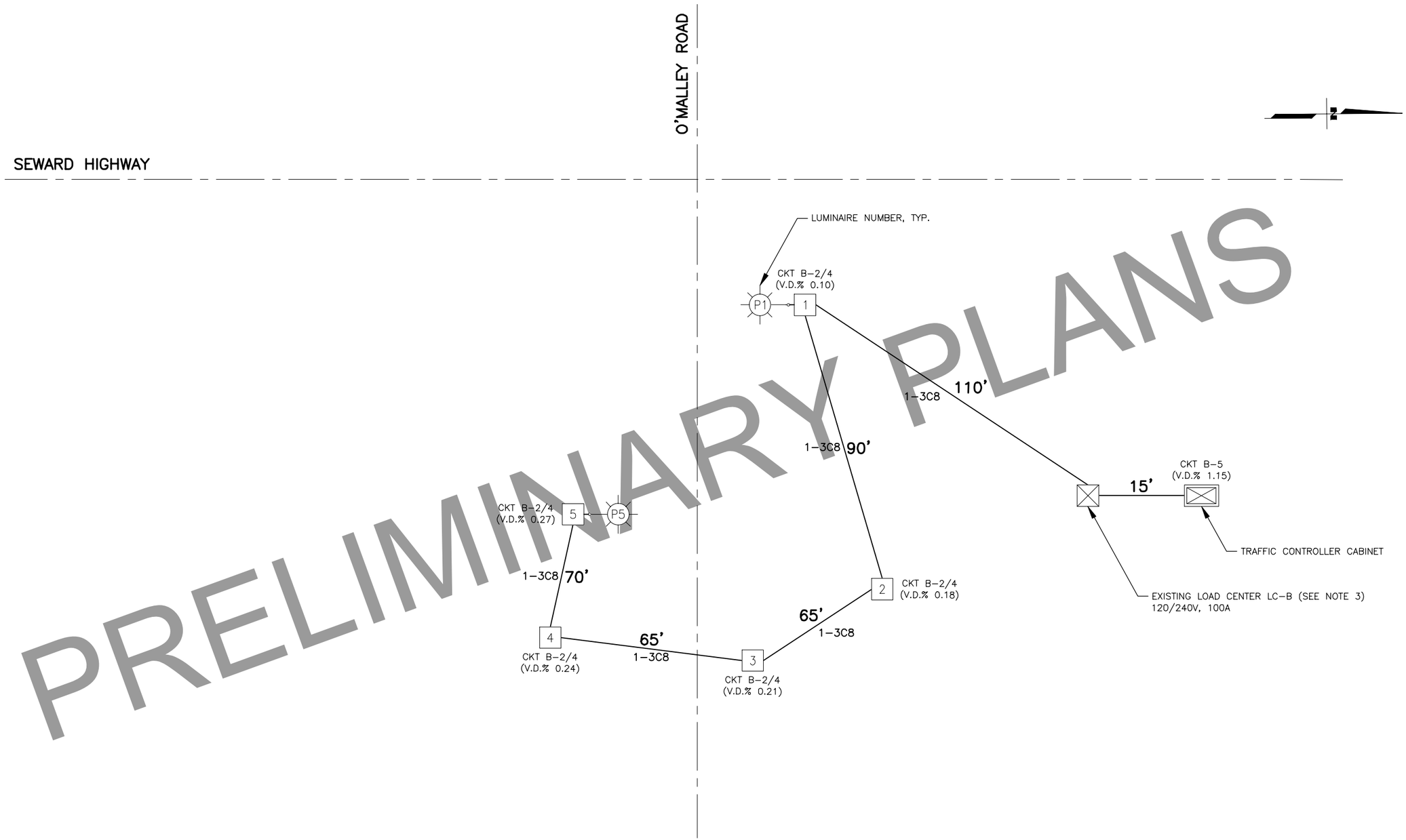
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WIRING DIAGRAM O'MALLEY RD – EAST

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA5	HA8



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. TYPE 1A LOAD CENTER DETAILS AS PER SHEET H3.
3. EXISTING LOAD CENTER RELOCATED TO THIS LOCATION.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-B
WIRING DIAGRAM

DATE/TIME 4/11/2022 12:20 AM | LAYOUT HA5 | DESIGNED SK | CHECKED JM | DRAFTED RM
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA6	HA8

SUMMARY OF EXISTING LOAD CENTER "B"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	MUNICIPALITY OF ANCHORAGE (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC UNDERGROUND FEED FROM UNDERGROUND SERVICE

LOAD CENTER LOCATION DATA (STATION : "X-OM-WB" 2513+12.4, OFFSET : 72.0' LT)

LOAD CENTER:	NEW SEWARD HWY & O'MALLEY RD (NE)
POWER SOURCE:	NEW 25 kVA CEA PROVIDED SERVICE TRANSFORMER (PM 6204)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	NEW METER, 100A SOCKET
PANEL MAIN SERVICE DISCONNECT	240V, 2-POLE, 100A
CONTACTOR A:	600V, 10 POLES, 30A
AIC RATING, PANEL B:	14kAIC @ 240V

PANEL B – 120/240 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	*PE CONTROL*	0.05	0.22		0.17	*INTXL/P1/P5**	20/2	2
3			0.05		0.22	0.17			4
5	50/1	*TRAFFIC SIGNAL CABINET*	4.8	4.8		0	SPACE	–	6
7	–	SPACE	0		0	0	SPACE	–	8
9	20/2	*SPARE*	0	0		0	SPACE	–	10
11			0		0	0	*SPARE*	20/2	12
13	20/2	*SPARE*	0	0		0			14
15			0		0.18	0.18	*CABINET RECEPTACLE (GFCI)*	15/1	16
17	15/1	*CABINET LIGHT*	0.1	0.6		0.5	*CABINET HEATER*	15/1	18
* CIRCUITED THROUGH CONTACTOR A				5.62	0.40	TOTAL kVA			6.01
						TOTAL AMPS AT 240V			25.1

NOTES:
1. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.

SHORT CIRCUIT CALCULATION – LC "B"

240V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	(3) 1/0 ALUMINUM
SERVICE CONDUIT	2" RMC
LINE-LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "B"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	240V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

VOLTAGE DROPS

120V IN A 1-PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
B-2/4 (240V)	INTXL P5 TO JB P4	8	70	166.67	0.72	0.03	0.27
	JB P4 TO JB P3	8	65	166.67	0.72	0.03	0.24
	JB P3 TO JB P2	8	65	166.67	0.72	0.03	0.21
	JB P2 TO INTXL P1	8	90	333.33	1.45	0.08	0.18
	INTXL P1 TO LC B	8	110	333.33	1.45	0.10	0.10
B-5	TRAFFIC SIGNAL CABINET TO LC B	6	20	4800.00	43.64	0.74	0.74

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

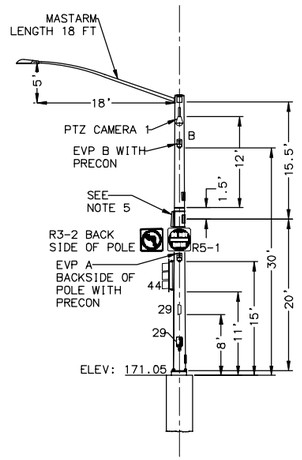
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC-B
SCHEDULE SHEET

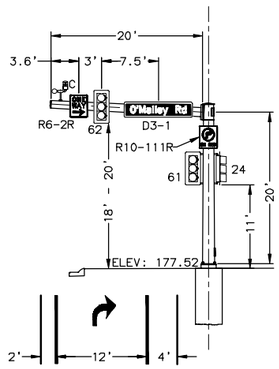
FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0665526\D0876333\00012_HA6.DWG | DATE/TIME | 4/11/2022 12:20 AM | LAYOUT | HA6 | DESIGNED | SK | CHECKED | JM | DRAFTED | RM

NO.	DATE	REVISION

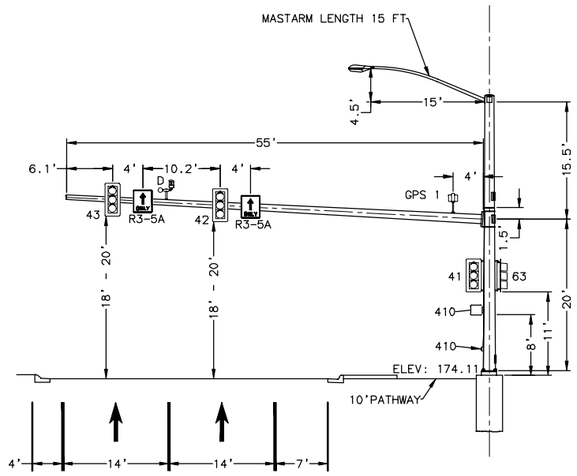
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA7	HA8



POLE 1
LOOKING NORTHWEST



POLE 3
LOOKING NORTHEAST



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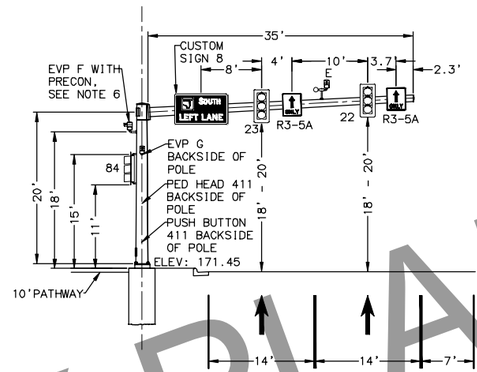
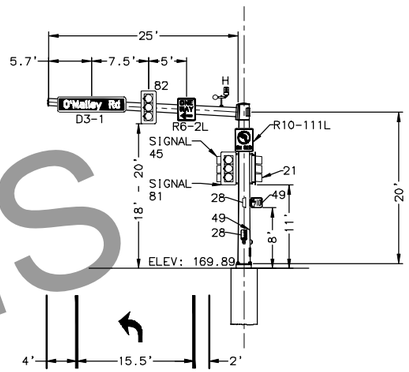
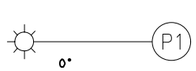
LOOKING SOUTHEAST



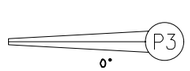
POLE 6
LOOKING SOUTHWEST



POLE 8
LOOKING NORTHWEST



RADIAL INDEX



RADIAL INDEX

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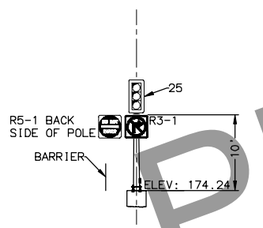
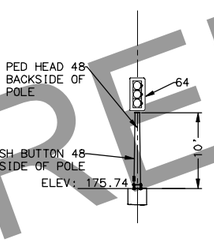
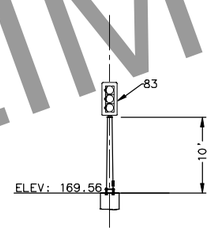


POLE 2
LOOKING WEST



POLE 4
LOOKING NORTHEAST



POLE 7
LOOKING NORTHWEST

NOTES:

1. TOP FINISHED SURFACE OF THE SIGNAL & PEDESTRIAN POLE FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK/PATHWAY OR ADJACENT FINISHED SURFACE. ALL FINAL ELEVATIONS SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO FOUNDATION INSTALLATION.
2. MOUNTING HEIGHT OF PTZ CAMERA SHALL BE FIELD DETERMINED BY THE ENGINEER AND MOA SIGNAL ELECTRONICS.
3. INSTALL FULLY FUNCTIONING MASTARM MOUNTED GPS OPTICOM SYSTEM, MAINTAIN 3 FEET SEPARATION FROM OTHER MASTARM MOUNTED SIGNAL HARDWARE, & ADJUST AS DIRECTED BY THE ENGINEER.
4. LANE MARKING ARE SHOWN FOR REFERENCE ONLY, SEE SIGNING & STRIPING SHEETS FOR EXACT LOCATIONS.
5. PROVIDE AND INSTALL COVER PLATE FOR SIMPLEX CONNECTION FOR POLE 1. POLE 1 SHALL BE DESIGN BASED ON A 35 FOOT MASTARM.
6. MOUNT EVP DETECTORS BELOW MASTARM BY DRILLING 0.375" MAXIMUM DIAMETER HOLE ON NEUTRAL AXIS OF POLE. THE NEUTRAL AXIS IS 90–DEGREES FROM THE MASTARM IN PLAN VIEW. DEBURR HOLE BEFORE INSTALLING CABLE.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562–2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

POLE ELEVATIONS
O'MALLEY RD – EAST

DATE/TIME 4/8/2022 2:05 PM | LAYOUT HA7 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HA8	HA8

CONTROLLER CABINET FEATURES

GENERAL OPTIONS	
TYPE	TS2-1
SIZE	NEMA SIZE 6
MATERIALS	0.125" NATURAL ALUMINUM
MODEL	WESTERN SYSTEMS NEMA TS2-1P
EXTENDER BASE	NONE
MOUNTING HARDWARE	INCLUDED
PAINT	NO
SPECIAL OPTIONS	
LIFTING TABS	INCLUDED
EQUIPMENT SHELF	(2) FULL WIDTH, (1) LAPTOP DRAWER
AIR FILTER	FIBER MESH
MAIN DOOR LOCK	BEST
REAR DOOR	NONE
LED LIGHT FIXTURES	SEE SPECIAL PROVISIONS FOR OTHER REQUIREMENT
MAIN PANEL	
MAIN PANEL POSITION	16-POSITION HORIZONTAL
FLASH TRANSFER RELAYS SOCKETS	(8) INCLUDED
FLASHER SOCKET	(1) INCLUDED
R1 RELAY SOCKET	INCLUDED
POWER PANEL	
SURGE SUPPRESSION	SHP300-10
LINE FILTER (RADIO INTERFERENCE)	50A
SOLID STATE CONTACTOR	NORMALLY OPEN, 50A
MAIN CIRCUIT BREAKER	40A
AUXILIARY CIRCUIT BREAKER	20A
3 POSITION TERMINAL BLOCK FOR INCOMING POWER, #2-#8 U.S.G.	INCLUDED
16 POSITION NEUTRAL BUS BAR	INCLUDED
16 POSITION CHASSIS GROUND BUS BAR	INCLUDED
POLICE PANEL	
POLICE PANEL SWITCHES	SIGNALS ON/OFF, AUTO/FLASH
POLICE PANEL PUSHBUTTON ALARM	NONE
POLICE DOOR LOCK	CONVENTIONAL (SKELETON KEY)
POLICE PANEL MANUAL CORD	NONE
AUXILIARY PANEL	
AUXILIARY PANEL SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD, CABINET LIGHT, HEATER BYPASS
DETECTOR TEST SWITCHES	TACTILE PUSHBUTTON
FORCE OFF SWITCHES	TACTILE PUSHBUTTON
RACK DETECTION	
DETECTOR RACKS	FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM.
DETECTOR RACK POWER SUPPLY	BIU FOR EACH RACK
EVP REQUIREMENTS	WIRING FOR GREEN SENSE MONITORING
ADDITIONAL OPTIONS	
RAILROAD PREEMPTION	INCLUDED
RAILROAD PREEMPTION/STAND ALONE PANEL	NO
RED JUMPERS FOR ALL UNUSED PHASES	INCLUDED
LOAD RESISTORS	(8) INCLUDED - LEFT SIDE OF CABINET
HEATER RECEPTACLE (SINGLE)	INCLUDED - RIGHT SIDE OF CABINET
DUPLEX GFI OUTLET (NON-FILTERED)	INCLUDED - RIGHT SIDE OF CABINET
QUAD CONVENIENCE OUTLET - FILTERED	INCLUDED - LEFT SIDE OF CABINET
ADDITIONAL NEUTRAL BUS BARS	(1) 32 POSITION BUS BAR LEFT SIDE OF CABINET
ADDITIONAL CHASSIS GROUND BUS BARS	(1) 32 POSITION BUS BAR LEFT SIDE OF CABINET
STANDARD WIRING DIAGRAM (AUTOCAD FORMAT)	PROVIDE: (3) PAPER SETS FOR CABINET, SIGNAL TECH AND TRAFFIC, (1) ACAD ON DISC, (1) PDF.
GTT OPTICOM 757 HARNESS	INCLUDED - WIRED INTO CABINET
GTT OPTICOM 768 AUXILIARY INTERFACE PANEL	INCLUDED - WIRED INTO CABINET
GENERATOR BYPASS COMPARTMENT	INCLUDED - MOUNT COMPARTMENT FLUSH AND ON INSIDE OF CONTROLLER CABINET DOOR. SEE SPECIAL PROVISIONS FOR OTHER REQUIREMENTS.

CONTROLLER ASSEMBLY EQUIPMENT

SUPPLY ALL LABOR, EQUIPMENT AND MATERIALS TO PROVIDE A FULLY FUNCTIONING TRAFFIC SIGNAL CONTROLLER ASSEMBLY COMPLIANT WITH THE NEMA STANDARD PUBLICATION NO. TS2-2003 V02.06 AND SPECIAL "SPECIALS" PROVISIONS OF THIS CONTRACT INCLUDING BUT NOT LIMITED TO;

QTY	CONTROLLER/MMU EQUIPMENT
1	ECON COBALT ATC TOUCH 2100 CONTROLLER (TS2 TYP 2)
1	CONTROLLER ETHERNET PORT
1	CONTROLLER DATA KEY
1	EDI MMU2-16LEIP
1	MMU2 CARD
QTY	**CABINET EQUIPMENT**
16	PDC SSS-87-I/O LOAD SWITCHES OR APPROVED EQUAL
16	EDI ORACLE4E DETECTOR AMPLIFIERS OR APPROVED EQUAL
8	DETROL CONTROLS 295 FLASH TRANSFER RELAYS OR APPROVED EQUAL
2	EDI BIU700 TERMINAL AND FACILITIES BIU'S OR APPROVED EQUAL
4	EDI BIU700 DETECTION BIU'S OR APPROVED EQUAL
1	EDI PS250 TS2 CABINET POWER SUPPLY OR APPROVED EQUAL
1	PDC SSF-87 FLASHER OR APPROVED EQUAL
1	R1 RELAY
1	600/900/1500W SELECTABLE THERMOSTATICALLY CONTROLLED CABINET HEATER, MOUNT ON DOOR
1	RE-SEALABLE PRINT POUCH OF SUFFICIENT SIZE TO ACCOMMODATE CABINET PRINTS
1	COMPLETE SET OF MANUALS FOR CONTROLLER, MMU2, AND VEHICLE DETECTOR AMPLIFIERS

COMMUNICATION EQUIPMENT SCHEDULE

QTY	COPPER INTERCONNECT SYSTEM
0	ACTELIS ML688 WITH FOUR 10/100X PORTS AND ONE OPTIONAL 1000BASE SFP PORT OR APPROVED EQUAL
0	AC POWER ADAPTER 506R00006 OR APPROVED EQUAL
0	3 FOOT CAT6 PATCH CABLE
0	SFP OPTICS 100BASE FX SM 1310NM 15KM LC MODULE 506R00032 OR APPROVED EQUAL
0	CARRIER-CLASS ELEMENT MANAGEMENT SYSTEM
0	QUAD DSL CABLES 504R20110 OR APPROVED EQUAL
0	WALL MOUNTING KIT 510R21080 OR APPROVED EQUAL
QTY	**FIBER INTERCONNECT EQUIPMENT**
1	ACTELIS NETWORKS MODEL ML530 WITH TWO 100/1000 BASE FX SFP PORTS AND FOUR PORTS OF 10/100 BASE-T OR APPROVED EQUAL
1	AC POWER ADAPTER 506R00006 OR APPROVED EQUAL
4	3 FOOT CAT6 PATCH CABLE
2	SFP OPTICS 100BASE FX SM 1310NM 15KM LC MODULE 506R00032 OR APPROVED EQUAL
1	CARRIER-CLASS ELEMENT MANAGEMENT SYSTEM
2	LC DUPLEX SM FIBER OPTIC CABLE ASSEMBLY 3 METERS OR APPROVED EQUAL
1	WALL MOUNTING KIT 510R21080 OR APPROVED EQUAL
QTY	**OTHER EQUIPMENT**
0	RSL910 ETHERNET SWITCH (COPPER AND FIBER) OR APPROVED EQUAL
QTY	**EVP EQUIPMENT**
1	OPTICOM MODEL 764 PHASE SELECTOR
QTY	**RADAR EQUIPMENT**
0	CLICK! 650 (102-0416)
0	CLICK! 656 (102-0451)
0	INSTALLER KIT
0	7' SDLC CABLE - 15 PIN SCREW TO 15 PIN SPRING CLIP (SDLC-TS2-7)
0	3' SDLC CABLE - 15 PIN SCREW TO 15 PIN SPRING CLIP (SDLC-TS2-3)
0	SDLC 6 PORT INTERFACE PANEL (SDLC-IP6)

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

CONTROLLER EQUIPMENT
O'MALLEY RD - EAST

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB1	HB8

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
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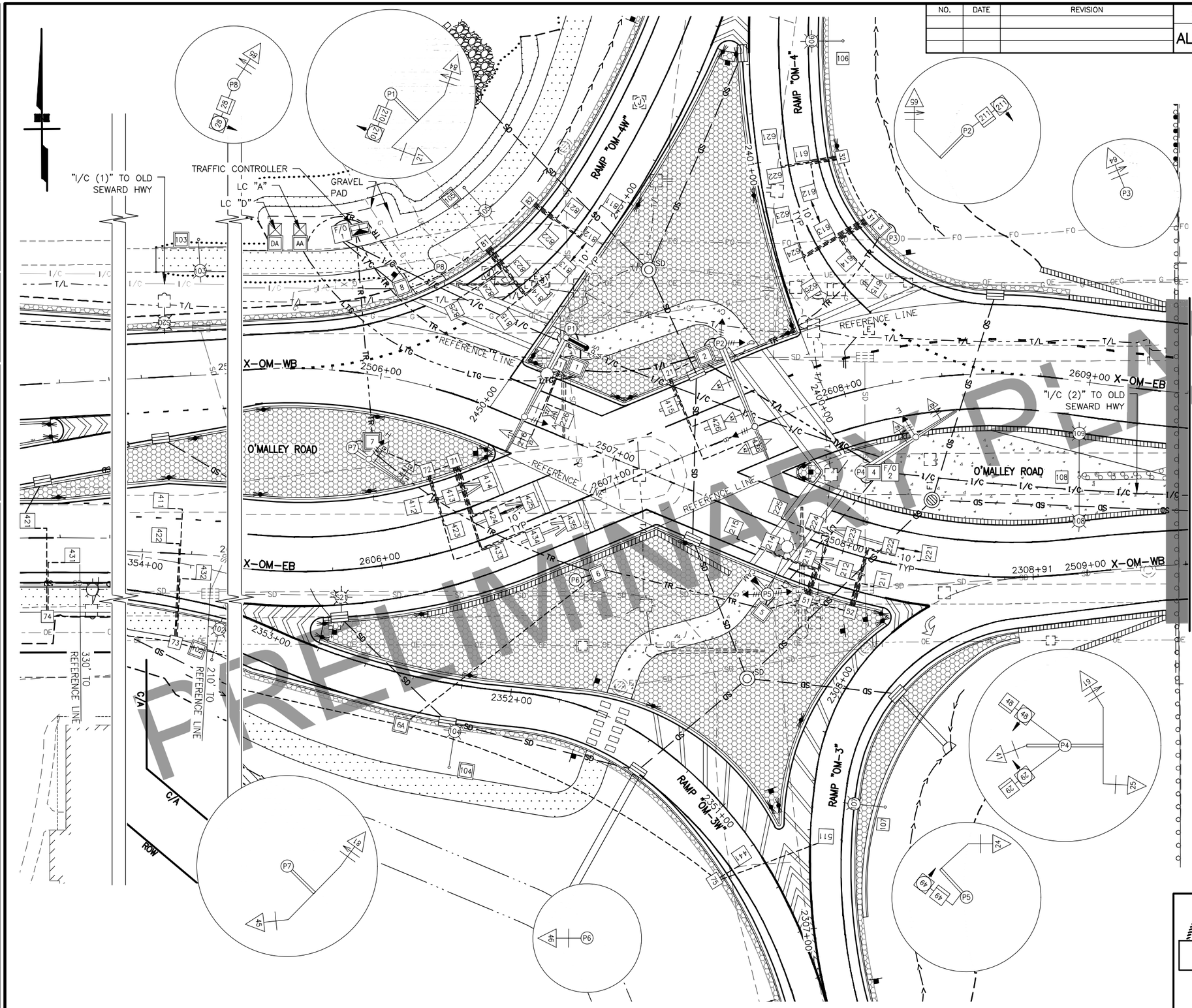

SEE HA SHEETS O'MALLEY RD – EAST

NOTES:

1. REMOVE EXISTING JUNCTION BOXES, CONDUITS, AND CABLES NOT INDICATED FOR REUSE. TRAFFIC SIGNAL POLES AND HARDWARE NOT SCHEDULED FOR REUSE SHALL BE DELIVERED TO MOA YARD AT 3RD AVE. & ORCA ST. (SEE SPECIAL PROVISIONS 660-3.01, GENERAL ITEM 6)
2. SEE ILLUMINATION SHEETS AND SCHEDULES FOR ADDITIONAL ILLUMINATION INFORMATION.
3. P1 MAST ARM CENTERLINE BEARING IS S27° 48' 58.03"W.
4. P2 MAST ARM CENTERLINE BEARING IS S22° 29' 37.25"E.
5. P4 MAST ARM CENTERLINE BEARING IS N57° 11' 12.68"E.

STATE OF ALASKA
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL SYSTEM PLAN (1 OF 2) O'MALLEY RD – WEST

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB2	HB8

JUNCTION BOX SCHEDULE

J-BOX	STATION ALIGNMENT	OFFSET	TYPE
AA	"X-OM-WB" 2505+66.2	53.7' LT	2
1	"X-OM-WB" 2506+72.0	28.4' LT	3
11	"X-OM-WB" 2506+64.7	26.7' LT	1A
2	"X-OM-EB" 2607+53.5	34.4' LT	3
21	"X-OM-EB" 2607+37.7	33.7' LT	1A
3	"OM-4" 2400+62.4	43.6' RT	2
31	"OM-4" 2400+67.8	40.5' RT	1A
32	"OM-4" 2400+97.3	34.1' RT	1A
4	"X-OM-EB" 2608+03.2	33.6' RT	2
5	"X-OM-WB" 2507+79.2	34.5' RT	2
51	"X-OM-WB" 2507+92.4	23.7' RT	1A
52	"X-OM-WB" 2508+09.3	22.8' RT	1A
6	"X-OM-WB" 2507+12.1	45.5' RT	2
6A	"OM-3W" 2352+40.4	20.4' LT	2
7	"X-OM-WB" 2506+01.1	26.8' RT	3
71	"X-OM-WB" 2506+39.8	25.6' RT	1A
72	"X-OM-WB" 2506+29.4	32.5' RT	1A
73	"X-OM-EB" 2604+75.4	36.0' RT	1A
74	"X-OM-EB" 2603+54.8	31.7' RT	1A
75	"OM-3W" 2350+76.4	21.3' LT	1A
8	"OM-4W" 2450+19.5	56.8' LT	2
81	"OM-4W" 2450+53.1	39.6' LT	1A
82	"OM-4W" 2450+77.8	34.5' LT	1A

INTERCONNECT VAULT SCHEDULE

VAULT	STATION ALIGNMENT	OFFSET	TYPE
F/O 1	"X-OM-WB" 2505+79.6	55.4' LT	F/O VAULT
F/O 2	"X-OM-EB" 2608+10.8	35.2' RT	F/O VAULT

FOUNDATION SCHEDULE

SHEET	ITEM	STATION ALIGNMENT	OFFSET	STRUCTURE
HB1/HB3	LC "A"	"X-OM-WB" 2505+66.1	56.1' LT	TYPE 1A LOAD CENTER
HB1/HB3	TC	"X-OM-WB" 2505+85.2	57.7' LT	TRAFFIC CONTROLLER
HB1/HB3	P1	"X-OM-WB" 2506+64.0	41.8' LT	SIGNAL POLE 1
HB1/HB3	P2	"X-OM-EB" 2607+61.3	36.8' LT	SIGNAL POLE 2
HB1/HB3	P3	"OM-4" 2400+55.9	47.3' RT	SIGNAL POLE 3
HB1/HB3	P4	"X-OM-EB" 2607+97.4	32.2' RT	SIGNAL POLE 4
HB1/HB3	P5	"X-OM-WB" 2507+78.5	26.9' RT	SIGNAL POLE 5
HB1/HB3	P6	"X-OM-WB" 2507+04.5	51.4' RT	SIGNAL POLE 6
HB1/HB3	P7	"X-OM-WB" 2505+92.4	30.4' RT	SIGNAL POLE 7
HB1/HB3	P8	"OM-4W" 2450+35.2	48.8' LT	SIGNAL POLE 8

LOOP SCHEDULE

LOOP	STATION ALIGNMENT	OFFSET	LOOP	STATION ALIGNMENT	OFFSET
211	"X-OM-WB" 2508+15.4	7.0' RT	411	"X-OM-EB" 2604+69.5	21.0' LT
212	"X-OM-WB" 2508+00.0	7.0' RT	412	"X-OM-EB" 2606+21.1	21.0' LT
213	"X-OM-WB" 2507+84.4	7.0' RT	413	"X-OM-EB" 2606+38.8	21.0' LT
214	"X-OM-WB" 2507+68.5	7.0' RT	414	"X-OM-EB" 2606+56.0	21.0' LT
215	"X-OM-WB" 2507+52.5	7.0' RT	415	"X-OM-EB" 2607+35.6	21.0' LT
216	"X-OM-WB" 2506+59.9	7.0' RT	421	"X-OM-EB" 2603+49.9	7.0' LT
221	"X-OM-WB" 2508+31.6	7.0' LT	422	"X-OM-EB" 2604+69.5	7.0' LT
222	"X-OM-WB" 2508+15.0	7.0' LT	423	"X-OM-EB" 2606+36.1	7.0' LT
223	"X-OM-WB" 2507+98.5	7.0' LT	424	"X-OM-EB" 2606+52.6	7.0' LT
224	"X-OM-WB" 2507+82.0	7.0' LT	425	"X-OM-EB" 2606+68.6	7.0' LT
225	"X-OM-WB" 2507+66.0	7.0' LT	426	"X-OM-EB" 2607+50.3	7.0' LT
226	"X-OM-WB" 2506+72.5	7.0' LT	431	"X-OM-EB" 2603+67.9	7.0' RT
			432	"X-OM-EB" 2604+88.3	7.0' RT
511	"OM-3" 2307+34.5	6.3' RT	433	"X-OM-EB" 2606+49.2	7.0' RT
			434	"X-OM-EB" 2606+65.1	7.0' RT
			435	"X-OM-EB" 2606+81.1	7.0' RT
			436	"X-OM-EB" 2607+62.2	7.0' RT
			441	"OM-3W" 2350+75.9	6.5' LT
611	"OM-4" 2400+97.9	18.0' RT	811	"OM-4W" 2450+93.0	6.0' LT
612	"OM-4" 2400+81.1	18.5' RT	812	"OM-4W" 2450+76.8	6.1' LT
613	"OM-4" 2400+64.5	21.7' RT	813	"OM-4W" 2450+60.9	7.6' LT
614	"OM-4" 2400+48.6	27.8' RT	814	"OM-4W" 2450+45.2	10.8' LT
615	"OM-4" 2400+34.0	36.7' RT	815	"OM-4W" 2450+30.0	15.7' LT
621	"OM-4" 2401+06.9	6.0' RT	821	"OM-4W" 2450+82.4	18.3' LT
622	"OM-4" 2400+90.6	6.0' RT	822	"OM-4W" 2450+66.5	20.0' LT
623	"OM-4" 2400+74.3	6.0' RT	823	"OM-4W" 2450+50.8	23.4' LT
624	"OM-4" 2400+58.1	7.1' RT	824	"OM-4W" 2450+35.7	28.6' LT
625	"OM-4" 2400+42.1	10.4' RT	825	"OM-4W" 2450+21.2	35.4' LT

OPTICOM DETECTOR SCHEDULE

LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	MODEL	REMARKS
SIGNAL 1 MASTARM	A	2	SE	721	CHANNEL A
SIGNAL 1 MASTARM	GPS A				FOR FUTURE USE
SIGNAL 2 MASTARM	B	4	SW	721	CHANNEL B
SIGNAL POLE 2	C	8,OLA	N	721	CHANNEL C
SIGNAL POLE 2	D	2	E	721	CHANNEL A
SIGNAL 4 MASTARM	E	8,OLA	NW	721	CHANNEL C
SIGNAL POLE 5	F	2	E	721	CHANNEL A
SIGNAL POLE 5	G	4	W	721	CHANNEL B
SIGNAL 7 MASTARM	H	8,OLA	NE	721	CHANNEL C

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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL SYSTEM PLAN (2 OF 2)
O'MALLEY RD – WEST

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ALASKA	0537008/CFHWY00012	2022	HB3	HB8

ZH	DRAFTED
KK	CHECKED
ZH	DESIGNED
HB3	LAYOUT
4/8/2022 2:06 PM	DATE/TIME

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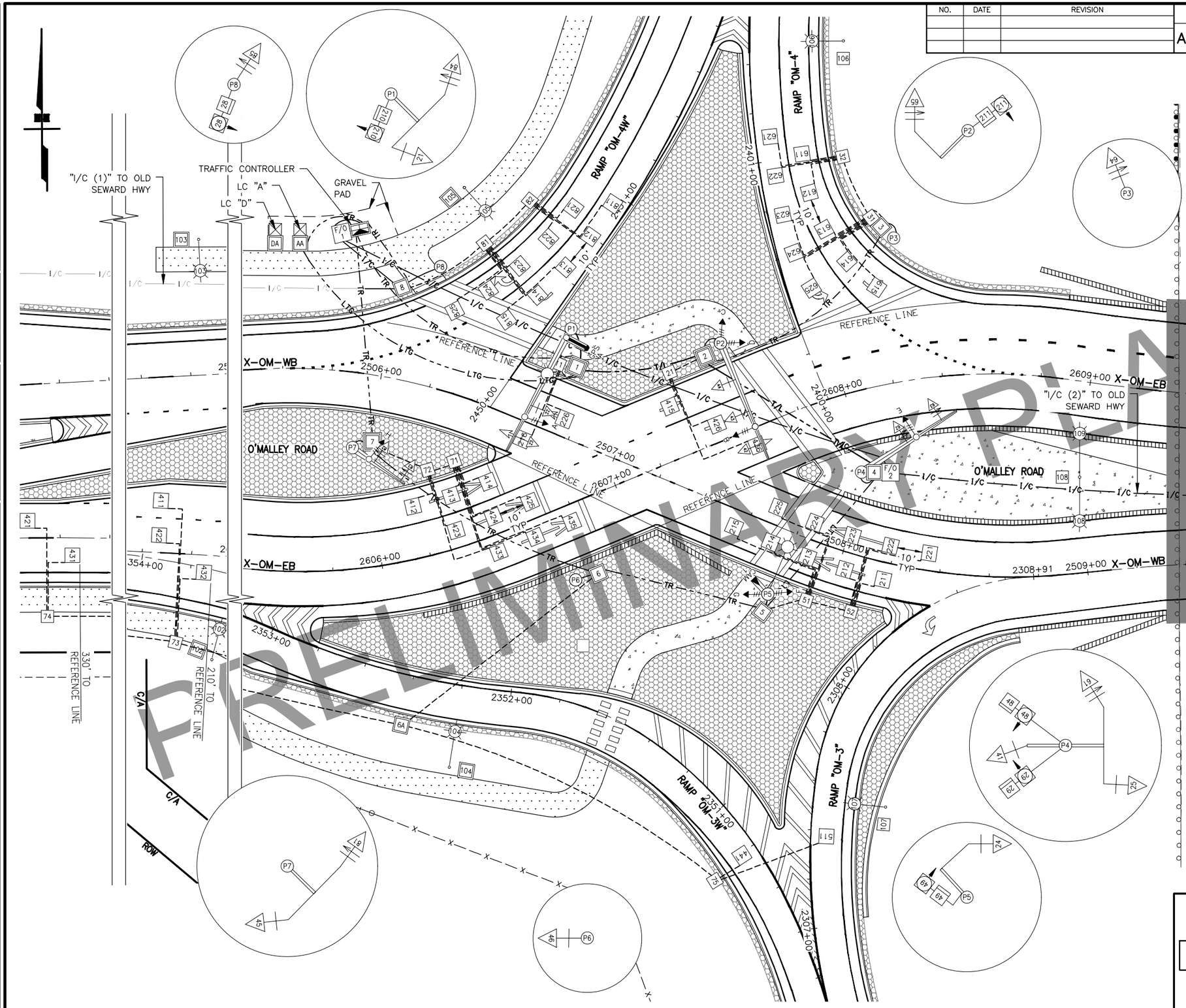
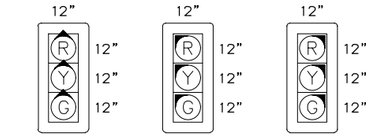
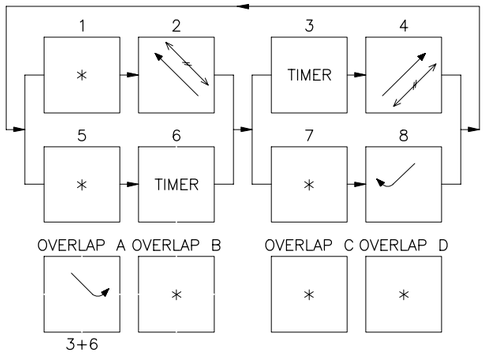


SEE HA SHEETS
O'MALLEY RD – EAST



SIGNAL HEAD CONFIGURATIONS



PREEMPTION DWELL PHASE VEHICLE MOVEMENTS

CHANNEL A: PHASES 2 + 6 + OVERLAP A
CHANNEL B: PHASES 4 + 8
CHANNEL C: PHASES 3 + 8 + OVERLAP A
CHANNEL D: NOT ENABLED

PHASE DIAGRAM

- PEDESTRIAN MOVEMENT
- PROTECTED VEHICLE MOVEMENT
- UNPROTECTED VEHICLE MOVEMENT
- * FUTURE USE/NOT USED

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL OPERATIONS PLAN O'MALLEY RD – WEST

NO.	DATE	REVISION

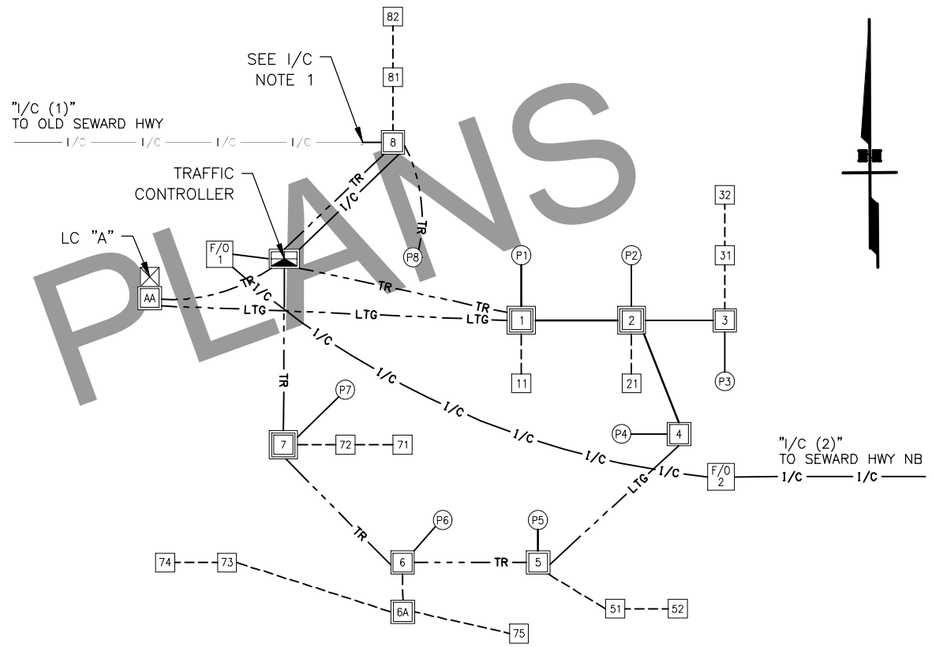
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB4	HB8

CABLE SCHEDULE

CABLE	CONDUCTOR	J-BOX PATH	LOAD
I/C (1)	25PR19	TC (SEWARD HWY SB) - TC (OLD SEWARD HWY)	I/C "OLD SEWARD HWY"
I/C (2)	FIBER	TC (SEWARD HWY SB) - TC (SEWARD HWY NB)	I/C "SEWARD HWY NB"
0	3C6	LC-AA-TC	SIG CKT "A8"
1	3C8	LC-AA-1-P1-1-2-4-5-P5	INTXL CKT "A2/4"
2A	3C20	TC-1-P1	PRE A (A)
2B	3C20	TC-1-2-P2	PRE A (D)
2C	3C20	TC-7-6-5-P5	PRE A (F)
3A	3C14	TC-1-P1	PRECON (A)
3B	3C14	TC-7-6-5-P5	PRECON (F)
4A	3C20	TC-1-2-P2	PRE B (B)
4B	3C20	TC-7-6-5-P5	PRE B (G)
5A	3C14	TC-1-2-P2	PRECON (B)
5B	3C14	TC-7-6-5-P5	PRECON (G)
6A	3C20	TC-1-2-P2	PRE C (C)
6B	3C20	TC-1-2-4-P4	PRE C (E)
6C	3C20	TC-7-P7	PRE C (H)
7A	3C14	TC-1-2-P2	PRECON (C)
7B	3C14	TC-1-2-4-P4	PRECON (E)
7C	3C14	TC-7-P7	PRECON (H)
10	CAT5E	TC-7-6-5-P5	PTZ CAMERA
10B	1070	TC-1-P1	GPS/RADIO UNIT
21	7C14	TC-1-P1	HEAD 21
22	7C14	TC-1-P1	HEAD 22
23	7C14	TC-1-P1	HEAD 23
24	7C14	TC-7-6-5-P5	HEAD 24
25	7C14	TC-1-2-4-P4	HEAD 25
26A	3C14	TC-1-P1	PEDB 210
26B	3C14	TC-1-2-P2	PEDB 211
27A	3C14	TC-8-P8	PEDB 28
27B	3C14	TC-1-2-4-P4	PEDB 29
28A	5C14	TC-1-P1	PEDI 210
28B	5C14	TC-1-2-P2	PEDI 211
29A	5C14	TC-8-P8	PEDI 28
29B	5C14	TC-1-2-4-P4	PEDI 29
41	7C14	TC-1-2-4-P4	HEAD 41
42	7C14	TC-1-2-P2	HEAD 42
43	7C14	TC-1-2-P2	HEAD 43
44	7C14	TC-1-2-P2	HEAD 44
45	7C14	TC-7-P7	HEAD 45
45A	7C14	TC-7-6-P6	HEAD 46
46	3C14	TC-1-2-4-P4	PEDB 48
47	3C14	TC-7-6-5-P5	PEDB 49
48	5C14	TC-1-2-4-P4	PEDI 48
49	5C14	TC-7-6-5-P5	PEDI 49
61	7C14	TC-1-2-4-P4	HEAD 61
62	7C14	TC-1-2-4-P4	HEAD 62
63	7C14	TC-1-2-4-P4	HEAD 63
64	7C14	TC-1-2-3-P3	HEAD 64
65	7C14	TC-1-2-P2	HEAD 65
81	7C14	TC-7-P7	HEAD 81
82	7C14	TC-7-P7	HEAD 82
83	7C14	TC-7-P7	HEAD 83
84	7C14	TC-1-P1	HEAD 84
85	7C14	TC-8-P8	HEAD 85
211	7PR18	TC-7-6-5-51-52	LOOPS 211-212,221-223
213	7PR18	TC-7-6-5-51	LOOPS 213-215,224-225
216	7PR18	TC-1-11	LOOPS 216,226
411	7PR18	TC-7-6-6A-73-74	LOOPS 411,421,422,431,432
412	7PR18	TC-7-72	LOOPS 412,423,433
413	7PR18	TC-7-72-71	LOOPS 413-414,424-425,434-435
415	7PR18	TC-1-2-21	LOOPS 415,426,436
441	7PR18	TC-7-6-6A-75	LOOPS 441,511
611	7PR18	TC-1-2-3-31-32	LOOPS 611-612,621-622
613	7PR18	TC-1-2-3-31	LOOPS 613-615,623-625
811	7PR18	TC-8-81-82	LOOPS 811-812,821-822
813	7PR18	TC-8-81	LOOPS 813-815,823-825

CONDUIT SCHEDULE

RUN #	CONDUIT		CABLES	DESTINATION
AA-TC	2	RMC	0	TC POWER
AA-1	2	RMC	1	INTXL
TC-F/O (1)	2	HDPE	I/C (2)	F/O (1)
F/01-F/02	2	RMC	I/C (2)	SEWARD HWY NB
F/02-F/03	2	HDPE	I/C (2)	SEWARD HWY NB
TC-1	3	RMC	5A,7A,7B,25,28B,29B,41,42,43,44,48,61,62,63,64,65	JBOX 2-3,4
	3	RMC	3A,21,22,23,28A,84	JBOX 1
	3	RMC	2A,2B,4A,6A,6B,10B,26A,26B,27B,46,216,415,611,613	JBOX 1-3,4
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
TC-7	3	RMC	3B,5B,7C,24,45,45A,49,81,82,83	JBOX 5-7
	3	RMC	2C,4B,6C,10,47,211,213,411,412,413,441	JBOX 5-7,6A
	3	RMC	SPARE	SPARE
TC-8	2	RMC	29A,85	JBOX 8
	2	RMC	27A,811,813	JBOX 8
	2	HDPE	I/C (1)	OLD SEWARD HWY
	3	RMC	SPARE	SPARE
1-P1	3	RMC	2A,3A,10B,21,22,23,26A,28A,84	POLE 1
	2	RMC	1(IN),1(OUT)	INTXL
	2	RMC	SPARE	SPARE
1-2	3	RMC	5A,7A,7B,25,28B,29B,41,42,43,44,48,61,62,63,64,65	JBOX 2-3,4
	3	RMC	2B,4A,6A,6B,26B,27B,46,415,611,613	JBOX 2-4,3
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
1-11	2	RMC	216	WB DOWNSTREAM LOOPS
2-P2	3	RMC	2B,4A,5A,6A,7A,26B,28B,42,43,44,65	POLE 2
	2	RMC	SPARE	SPARE
2-3	2	RMC	64	JBOX 3
	2	RMC	611,613	JBOX 3
	2	RMC	SPARE	SPARE
2-4	3	RMC	7B,25,29B,41,48,61,62,63	JBOX4
	2	RMC	6B,27B,46	JBOX4
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
2-21	2	RMC	415	EB DOWNSTREAM LOOPS
3-P3	2	RMC	64	POLE 3
	2	RMC	SPARE	SPARE
3-31	2	RMC	611,613	SBL DETECTION
31-32	2	RMC	611	SBL DETECTION
4-P4	3	RMC	6B,7B,25,27B,29B,41,46,48,61,62,63	POLE 4
	2	RMC	SPARE	SPARE
4-5	2	RMC	1	INTXL
5-P5	2	RMC	2C,3B,4B,5B,10,24,47,49	POLE 5
	2	RMC	1	INTXL
	2	RMC	SPARE	SPARE
5-6	2	RMC	3B,5B,24,49	JBOX5
	2	RMC	2C,4B,10,47,211,213	JBOX5
	2	RMC	SPARE	JBOX5
5-51	2	RMC	211,213	WB DETECTION
51-52	2	RMC	211	WB DETECTION
6-P6	2	RMC	45A	POLE 6
	2	RMC	SPARE	SPARE
6-6A	2	RMC	411,441	JBOX 6A
	2	RMC	SPARE	JBOX 6A
6-7	3	RMC	3B,5B,24,45A,49	JBOX 5-6
	3	RMC	2C,4B,10,47,211,213,411,441	JBOX 5,6,6A
	3	RMC	SPARE	SPARE
6A-73	2	RMC	411/	EB DETECTION
73-74	2	RMC	411	EB DETECTION
6A-75	2	RMC	441	SB COUNT LOOPS
7-P7	3	RMC	6C,7C,45,81,82,83	POLE 7
	2	RMC	SPARE	SPARE
7-72	2	RMC	412,413	EB DETECTION
72-71	2	RMC	413	EB DETECTION
8-P8	2	RMC	27A,29A,85	POLE 8
	2	RMC	SPARE	SPARE
8-81	2	RMC	811,813	SBR DETECTION
81-82	2	RMC	811	SBR DETECTION



WIRING DIAGRAM NOTES:

1. UNLESS OTHERWISE NOTED, INSTALL BARE 1#8 GROUND IN ALL CONDUITS. EXCEPT THOSE CONDUITS THAT CONTAIN LARGER CONDUCTORS. IN THIS CASE, INSTALL WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR.
2. STREET LIGHTING CONDUCTORS NOT SHOWN IN CABLE SCHEDULE FOR CLARITY, SEE HL SHEETS.

INTERCONNECT NOTES:

1. INTERCEPT EXISTING 2" RMC INTERCONNECT CONDUIT AND ROUTE TO J-BOX 8. PROVIDE SINGLE, UNSPLICED NEW INTERCONNECT CABLE FROM NEW TRAFFIC CONTROLLER TO OLD SEWARD HIGHWAY CONTROLLER. MOA SIGNAL ELECTRONICS TO TERMINATE CABLES.
2. IN F/O VAULT "1", PROVIDE ONE 12-FIBER DROP CABLES WITH INTEGRAL PATCH AND PIGTAIL. IN F/O VAULT, SPLICE DROP CABLE TO FIBERS #1-#12 ON THE FIBER OPTIC CABLE GOING TO THE EAST. CUT AND END PROTECT FIBERS #13-#72 GOING TO THE EAST.
3. MOUNT THE PATCH PANEL TO THE BACK INSIDE WALL OF THE UPPER PORTION OF THE CONTROLLER CABINET FOUNDATION, CONFIRM MOUNTING LOCATION WITH THE MOA SIGNAL ELECTRONICS PERSONNEL PRIOR TO INSTALLATION.
4. INSTALL RMC CONDUIT AT ALL ROADWAY CROSSINGS.
5. AVOID USING CONDUIT ELBOW FITTINGS IN SYSTEM. WHEN CONDUIT ELBOW FITTINGS ARE NECESSARY, PROVIDE SPECIAL LARGE RADIUS ELBOW FITTINGS WITH A MINIMUM RADIUS OF 36".

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WIRING DIAGRAM O'MALLEY RD – WEST

ZH | DRAFTED | KK | CHECKED | ZH | DESIGNED | HB4 | LAYOUT | 4/8/2022 2:06 PM | DATE/TIME

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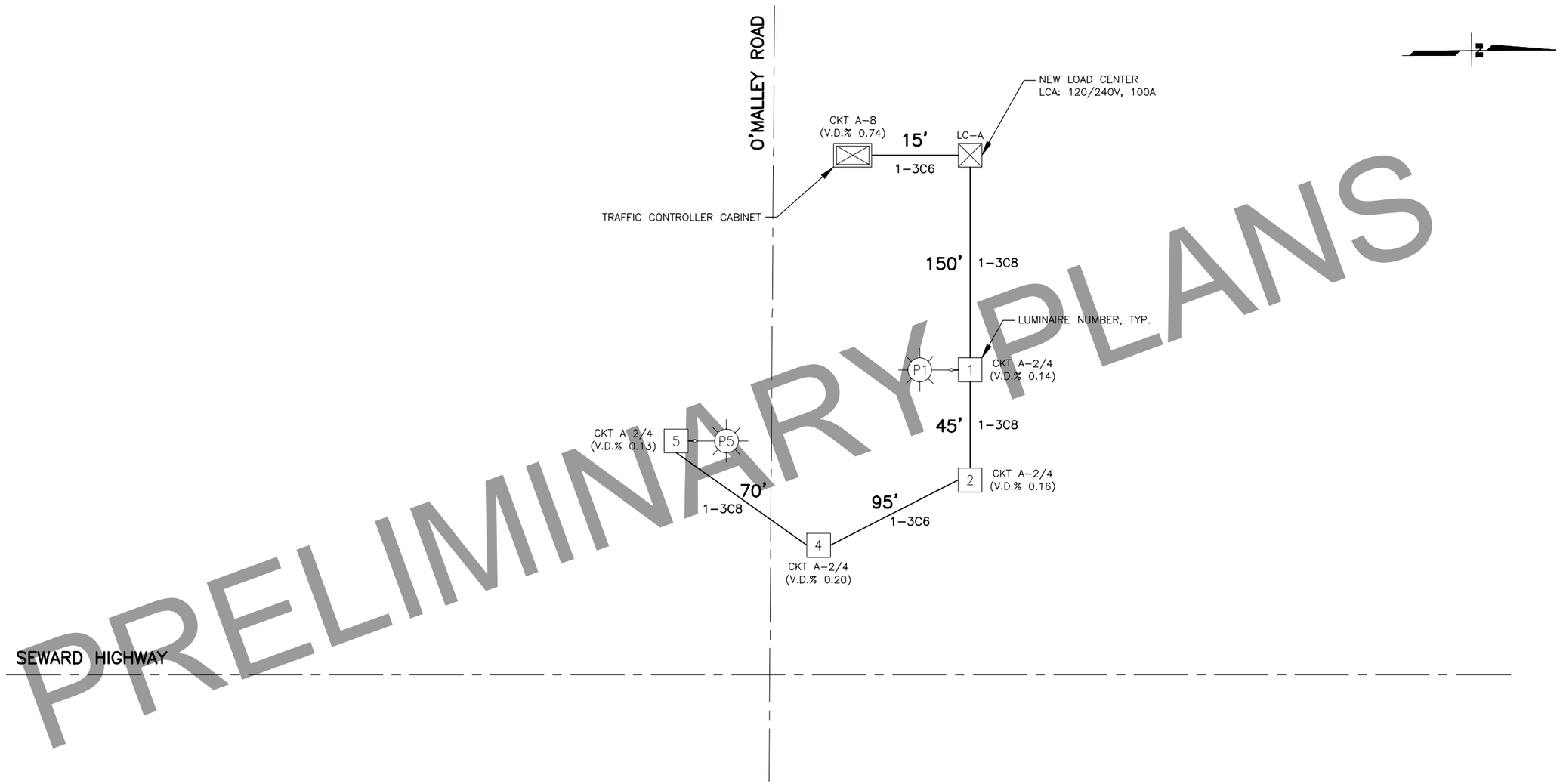
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB5	HB8



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. TYPE 1 LOAD CENTER DETAILS AS PER SHEET H4.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-A WIRING DIAGRAM

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB6	HB8

SUMMARY OF NEW LOAD CENTER "A"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	MUNICIPALITY OF ANCHORAGE (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC UNDERGROUND FEED FROM UNDERGROUND SERVICE
LOAD CENTER LOCATION DATA (STATION : "X-OM-WB" 2505+66.1, OFFSET : 56.1' LT)	
LOAD CENTER:	NEW SEWARD HWY & O'MALLEY RD (NW)
POWER SOURCE:	NEW CEA PROVIDED SERVICE TRANSFORMER AND UNDERGROUND SERVICE (PM 3704)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	YES, 100A SOCKET
PANEL MAIN SERVICE DISCONNECT	240V, 2-POLE, 100A
CONTACTOR A:	600V, 10 POLES, 30A
AIC RATING, PANELS A:	14kAIC @ 240V

PANEL A – 120/240 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	*PE CONTROL*	0.05	0.22		0.17	*INTXL/P1/P5**	20/2	2
3			0.05		0.22	0.17			4
5	–	SPACE	0	0		0	SPACE	–	6
7	–	SPACE	0		4.8	4.8	*TRAFFIC SIGNAL CABINET*	50/1	8
9	20/2	*SPARE*	0	0		0	SPACE	–	10
11			0		0	0	*SPARE*	20/2	12
13	20/2	*SPARE*	0	0		0			14
15			0		0.18	0.18	*CABINET RECEPTACLE (GFCI)*	15/1	16
17	15/1	*CABINET LIGHT*	0.1	0.6		0.5	*CABINET HEATER*	15/1	18
		* CIRCUITED THROUGH CONTACTOR A		0.82	5.20		TOTAL kVA		6.01
							TOTAL AMPS AT 240V		25.1

NOTES:
1. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.
2. INTERNAL STEP-UP TRANSFORMER INTEGRAL TO LOAD CENTER IS AN EATON CUTLER-HAMMER DRY TYPE 15kVA CAT NO. S20N11S15N WITH 1.4% IMPEDANCE.

SHORT CIRCUIT CALCULATION – LC "A"

240V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	(3) 1/0 ALUMINUM
SERVICE CONDUIT	2" RMC
LINE-LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "A"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	240V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

VOLTAGE DROPS

120V IN A 1-PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
A-2/4 (240V)	INTXL P5 TO P4	8	70	166.67	0.72	0.03	0.23
	P4 TO P2	8	95	166.67	0.72	0.04	0.20
	P2 TO INTXL P1	8	45	166.67	0.72	0.02	0.16
	INTXL P1 TO LCA	8	150	333.33	1.45	0.14	0.14
A-8	TRAFFIC SIGNAL CABINET TO LC A	6	20	4800.00	43.64	0.74	0.74

JACOBS ENGINEERING GROUP, INC.
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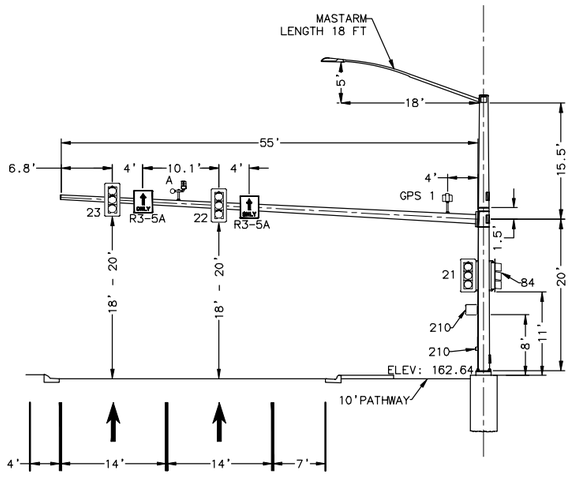
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

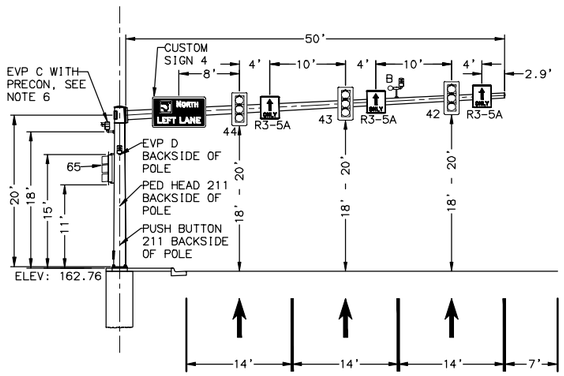
LOAD CENTER LC-A
SCHEDULE SHEET

NO.	DATE	REVISION

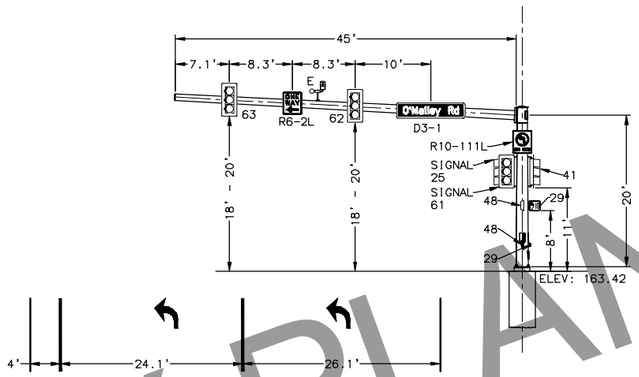
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB7	HB8



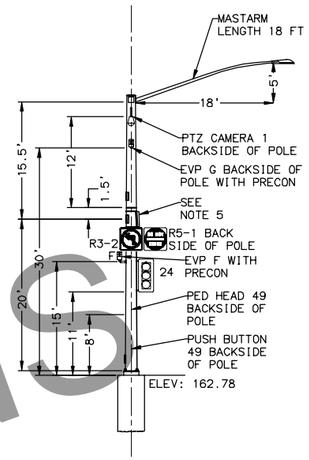
POLE 1
LOOKING NORTHWEST



POLE 2
LOOKING NORTHEAST



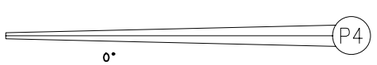
POLE 4
LOOKING SOUTHEAST



POLE 5
LOOKING NORTHWEST

RADIAL INDEX

RADIAL INDEX



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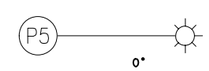

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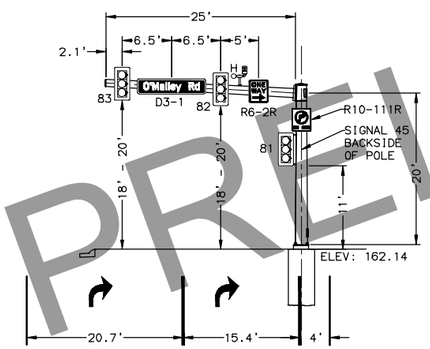

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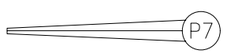
LOOKING SOUTHWEST



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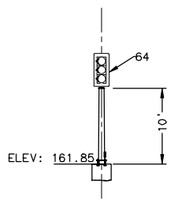
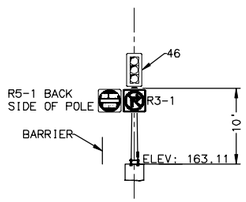
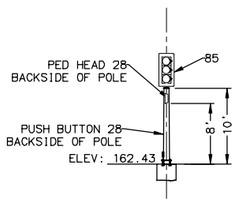


POLE 3
LOOKING SOUTHEAST



POLE 6
LOOKING EAST



POLE 8
LOOKING SOUTWEST

NOTES:

1. TOP FINISHED SURFACE OF THE SIGNAL & PEDESTRIAN POLE FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK/PATHWAY OR ADJACENT FINISHED SURFACE. ALL FINAL ELEVATIONS SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO FOUNDATION INSTALLATION.
2. MOUNTING HEIGHT OF PTZ CAMERA SHALL BE FIELD DETERMINED BY THE ENGINEER AND MOA SIGNAL ELECTRONICS.
3. INSTALL FULLY FUNCTIONING MASTARM MOUNTED GPS OPTICOM SYSTEM, MAINTAIN 3 FEET SEPARATION FROM OTHER MASTARM MOUNTED SIGNAL HARDWARE, & ADJUST AS DIRECTED BY THE ENGINEER.
4. LANE MARKING ARE SHOWN FOR REFERENCE ONLY, SEE SIGNING & STRIPING SHEETS FOR EXACT LOCATIONS.
5. PROVIDE AND INSTALL COVER PLATE FOR SIMPLEX CONNECTION FOR POLE 5. POLE 5 SHALL BE DESIGN BASED ON A 35 FOOT MASTARM.
6. MOUNT EVP DETECTORS BELOW MASTARM BY DRILLING 0.375" MAXIMUM DIAMETER HOLE ON NEUTRAL AXIS OF POLE. THE NEUTRAL AXIS IS 90-DEGREES FROM THE MASTARM IN PLAN VIEW. DEBURR HOLE BEFORE INSTALLING CABLE.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

POLE ELEVATIONS
O'MALLEY RD – WEST

DATE/TIME 4/8/2022 2:07 PM | LAYOUT HB7 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HB8	HB8

CONTROLLER CABINET FEATURES

GENERAL OPTIONS	
TYPE	TS2-1
SIZE	NEMA SIZE 6
MATERIALS	0.125" NATURAL ALUMINUM
MODEL	WESTERN SYSTEMS NEMA TS2-1P
EXTENDER BASE	NONE
MOUNTING HARDWARE	INCLUDED
PAINT	NO
SPECIAL OPTIONS	
LIFTING TABS	INCLUDED
EQUIPMENT SHELF	(2) FULL WIDTH, (1) LAPTOP DRAWER
AIR FILTER	FIBER MESH
MAIN DOOR LOCK	BEST
REAR DOOR	NONE
LED LIGHT FIXTURES	SEE SPECIAL PROVISIONS FOR OTHER REQUIREMENT
MAIN PANEL	
MAIN PANEL POSITION	16-POSITION HORIZONTAL
FLASH TRANSFER RELAYS SOCKETS	(8) INCLUDED
FLASHER SOCKET	(1) INCLUDED
R1 RELAY SOCKET	INCLUDED
POWER PANEL	
SURGE SUPPRESSION	SHP300-10
LINE FILTER (RADIO INTERFERENCE)	50A
SOLID STATE CONTACTOR	NORMALLY OPEN, 50A
MAIN CIRCUIT BREAKER	40A
AUXILIARY CIRCUIT BREAKER	20A
3 POSITION TERMINAL BLOCK FOR INCOMING POWER, #2-#8 U.S.G.	INCLUDED
16 POSITION NEUTRAL BUS BAR	INCLUDED
16 POSITION CHASSIS GROUND BUS BAR	INCLUDED
POLICE PANEL	
POLICE PANEL SWITCHES	SIGNALS ON/OFF, AUTO/FLASH
POLICE PANEL PUSHBUTTON ALARM	NONE
POLICE DOOR LOCK	CONVENTIONAL (SKELETON KEY)
POLICE PANEL MANUAL CORD	NONE
AUXILIARY PANEL	
AUXILIARY PANEL SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD, CABINET LIGHT, HEATER BYPASS
DETECTOR TEST SWITCHES	TACTILE PUSHBUTTON
FORCE OFF SWITCHES	TACTILE PUSHBUTTON
RACK DETECTION	
DETECTOR RACKS	FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM.
DETECTOR RACK POWER SUPPLY	BIU FOR EACH RACK
EVP REQUIREMENTS	WIRING FOR GREEN SENSE MONITORING
ADDITIONAL OPTIONS	
RAILROAD PREEMPTION	INCLUDED
RAILROAD PREEMPTION/STAND ALONE PANEL	NO
RED JUMPERS FOR ALL UNUSED PHASES	INCLUDED
LOAD RESISTORS	(8) INCLUDED - LEFT SIDE OF CABINET
HEATER RECEPTACLE (SINGLE)	INCLUDED - RIGHT SIDE OF CABINET
DUPLEX GFI OUTLET (NON-FILTERED)	INCLUDED - RIGHT SIDE OF CABINET
QUAD CONVENIENCE OUTLET - FILTERED	INCLUDED - LEFT SIDE OF CABINET
ADDITIONAL NEUTRAL BUS BARS	(1) 32 POSITION BUS BAR LEFT SIDE OF CABINET
ADDITIONAL CHASSIS GROUND BUS BARS	(1) 32 POSITION BUS BAR LEFT SIDE OF CABINET
STANDARD WIRING DIAGRAM (AUTOCAD FORMAT)	PROVIDE: (3) PAPER SETS FOR CABINET, SIGNAL TECH AND TRAFFIC, (1) ACAD ON DISC, (1) PDF.
GTT OPTICOM 757 HARNESS	INCLUDED - WIRED INTO CABINET
GTT OPTICOM 768 AUXILIARY INTERFACE PANEL	INCLUDED - WIRED INTO CABINET
GENERATOR BYPASS COMPARTMENT	INCLUDED - MOUNT COMPARTMENT FLUSH AND ON INSIDE OF CONTROLLER CABINET DOOR. SEE SPECIAL PROVISIONS FOR OTHER REQUIREMENTS.

CONTROLLER ASSEMBLY EQUIPMENT

SUPPLY ALL LABOR, EQUIPMENT AND MATERIALS TO PROVIDE A FULLY FUNCTIONING TRAFFIC SIGNAL CONTROLLER ASSEMBLY COMPLIANT WITH THE NEMA STANDARD PUBLICATION NO. TS2-2003 V02.06 AND SPECIAL "SPECIALS" PROVISIONS OF THIS CONTRACT INCLUDING BUT NOT LIMITED TO;

QTY	CONTROLLER/MMU EQUIPMENT
1	ECON COBALT ATC TOUCH 2100 CONTROLLER (TS2 TYP 2)
1	CONTROLLER ETHERNET PORT
1	CONTROLLER DATA KEY
1	EDI MMU2-16LEIP
1	MMU2 CARD
QTY	**CABINET EQUIPMENT**
16	PDC SSS-87-I/O LOAD SWITCHES OR APPROVED EQUAL
16	EDI ORACLE4E DETECTOR AMPLIFIERS OR APPROVED EQUAL
8	DETROL CONTROLS 295 FLASH TRANSFER RELAYS OR APPROVED EQUAL
2	EDI BIU700 TERMINAL AND FACILITIES BIU'S OR APPROVED EQUAL
4	EDI BIU700 DETECTION BIU'S OR APPROVED EQUAL
1	EDI PS250 TS2 CABINET POWER SUPPLY OR APPROVED EQUAL
1	PDC SSF-87 FLASHER OR APPROVED EQUAL
1	R1 RELAY
1	600/900/1500W SELECTABLE THERMOSTATICALLY CONTROLLED CABINET HEATER, MOUNT ON DOOR
1	RE-SEALABLE PRINT POUCH OF SUFFICIENT SIZE TO ACCOMMODATE CABINET PRINTS
1	COMPLETE SET OF MANUALS FOR CONTROLLER, MMU2, AND VEHICLE DETECTOR AMPLIFIERS

COMMUNICATION EQUIPMENT SCHEDULE

QTY	COPPER INTERCONNECT SYSTEM
1	ACTELIS ML688 WITH FOUR 10/100X PORTS AND ONE OPTIONAL 1000BASE SFP PORT OR APPROVED EQUAL
1	AC POWER ADAPTER 506R00006 OR APPROVED EQUAL
4	3 FOOT CAT6 PATCH CABLE
1	SFP OPTICS 100BASE FX SM 1310NM 15KM LC MODULE 506R00032 OR APPROVED EQUAL
1	CARRIER-CLASS ELEMENT MANAGEMENT SYSTEM
2	QUAD DSL CABLES 504R20110 OR APPROVED EQUAL
1	WALL MOUNTING KIT 510R21080 OR APPROVED EQUAL
QTY	**FIBER INTERCONNECT EQUIPMENT**
0	ACTELIS NETWORKS MODEL ML530 WITH TWO 100/1000 BASE FX SFP PORTS AND FOUR PORTS OF 10/100 BASE-T OR APPROVED EQUAL
0	AC POWER ADAPTER 506R00006 OR APPROVED EQUAL
0	3 FOOT CAT6 PATCH CABLE
0	SFP OPTICS 100BASE FX SM 1310NM 15KM LC MODULE 506R00032 OR APPROVED EQUAL
0	CARRIER-CLASS ELEMENT MANAGEMENT SYSTEM
2	LC DUPLEX SM FIBER OPTIC CABLE ASSEMBLY 3 METERS OR APPROVED EQUAL
0	WALL MOUNTING KIT 510R21080 OR APPROVED EQUAL
QTY	**OTHER EQUIPMENT**
0	RSL910 ETHERNET SWITCH (COPPER AND FIBER) OR APPROVED EQUAL
QTY	**EVP EQUIPMENT**
1	OPTICOM MODEL 764 PHASE SELECTOR
QTY	**RADAR EQUIPMENT**
0	CLICK! 650 (102-0416)
0	CLICK! 656 (102-0451)
0	INSTALLER KIT
0	7' SDLC CABLE - 15 PIN SCREW TO 15 PIN SPRING CLIP (SDLC-TS2-7)
0	3' SDLC CABLE - 15 PIN SCREW TO 15 PIN SPRING CLIP (SDLC-TS2-3)
0	SDLC 6 PORT INTERFACE PANEL (SDLC-IP6)

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

CONTROLLER EQUIPMENT
O'MALLEY RD – WEST

ZH | DRAFTED | KK | CHECKED | ZH | DESIGNED | HB8 | LAYOUT | 4/8/2022 2:07 PM | DATE/TIME
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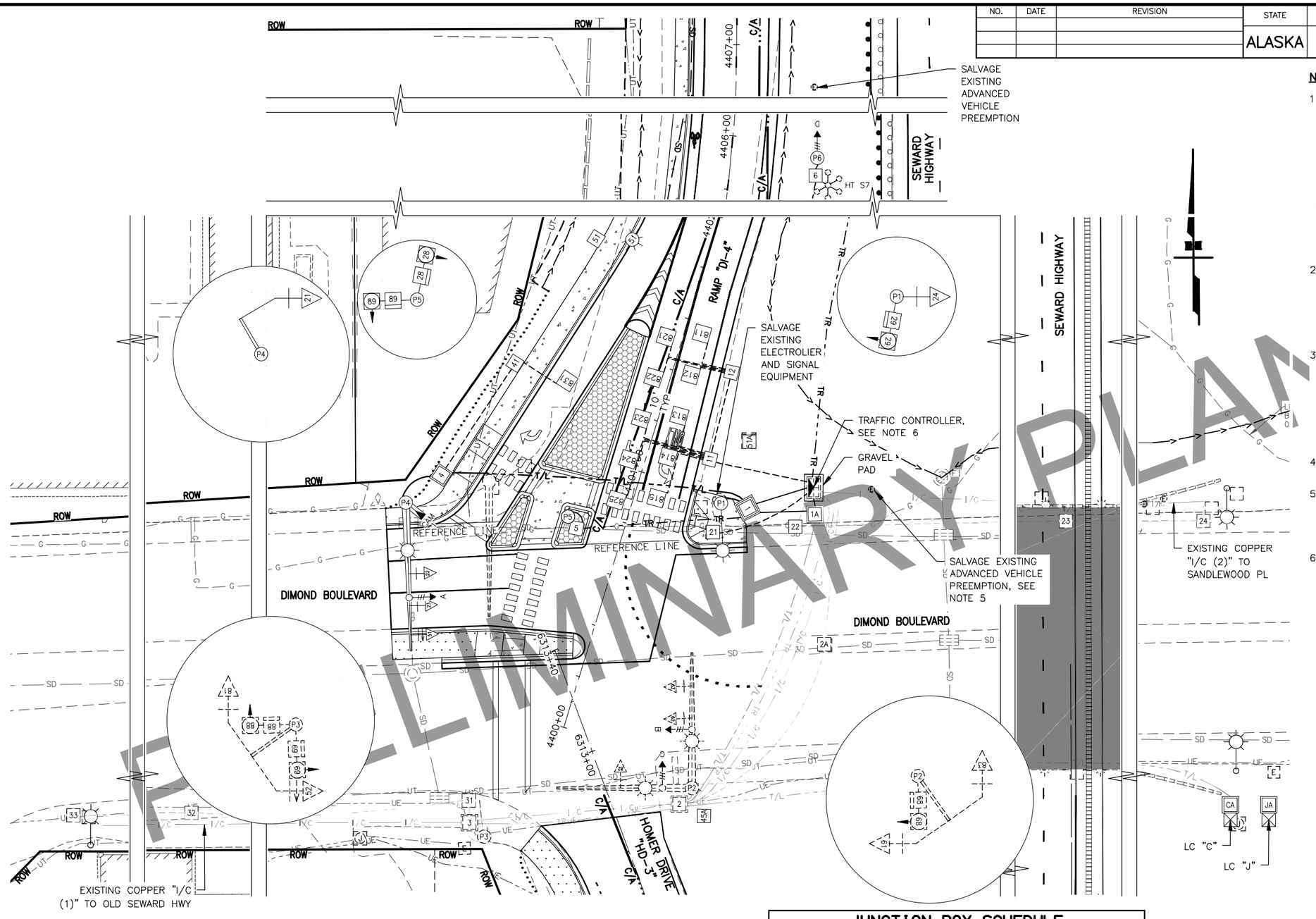
ALASKA	0537008/CFHWY00012	2022	HC1	HC6



NOTES:

1. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL SIGNAL COMPONENTS SHOWN WITH NO ANTICIPATED IMPACT. IN ADDITION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER:
   - A. CONDUIT RUNS MAY BE INTERCEPTED (AS APPROVED BY THE ENGINEER).
   - B. SIGNAL AND INTERCONNECT CONDUCTORS SHALL NOT BE INTERCEPTED. IMPACTED SIGNAL CONDUCTORS SHALL BE REPLACED CONTINUOUSLY FROM THE TRAFFIC CONTROLLER CABINET.
   - C. STREET LIGHTING CONDUCTORS SHALL NOT BE INTERCEPTED.
   - D. EXISTING INTERSECTION LIGHTING ON SALVAGED POLES SHALL BE RE-INSTALLED ON PROPOSED SIGNAL POLES 1 AND 4, RESPECTIVELY.
2. REPLACE J-BOX 21, THIS MAY REQUIRE ADDING CONDUIT EXTENSIONS. IN THE EVENT CONDUIT EXTENSIONS ARE NEEDED, CONTRACTOR SHALL PULL CONDUCTORS FROM CONDUIT(S) AND PROTECT AND PRESERVE IN PLACE BEFORE ADJUSTING CONDUITS, THEN RE-PULL CONDUCTORS THROUGH. THIS WORK AND MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.
3. INSTALL J-BOX 1A ON TOP OF THE EXISTING CONDUIT FEEDING THE EXISTING TRAFFIC CONTROLLER AND INTERSECTION LIGHTING COMING FROM J-BOX 2. INTERCEPT AND PULL BACK LIGHTING POWER CABLE AND PROTECT AND PRESERVE IN PLACE. CONTRACTOR TO PULL INTERSECTION LIGHTING POWER FROM J-BOX 1A, THROUGH J-BOX 1 INTO POLE 1. CONTRACTOR TO PULL A NEW TRAFFIC CONTROLLER POWER CABLE FROM LC "C" INTO THE NEW TRAFFIC CONTROLLER FOUNDATION.
4. J-BOX 21 AND 22 ARE TO BE INSTALLED AT EXISTING LOCATIONS.
5. DISCONNECT AND REMOVE THE EXISTING PREEMPTION CABLE CONNECTED TO THE EXISTING SANDLEWOOD PL TRAFFIC CONTROLLER. THE EXISTING CABLE IS ROUTED THROUGH THE EXISTING INTERCONNECT CONDUIT VIA THE EXISTING TRAFFIC CONTROLLER VAULT AT DIMOND BLVD-WEST RAMP.
6. REMOVE, PROTECT ON-SITE, AND RE-INSTALL ON A NEW FOUNDATION, SEE FOUNDATION SCHEDULE. SET TOP OF FOUNDATION AT APPROX. ELEV. 129.5' OR AS DIRECTED BY THE ENGINEER, RE-GRADE AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE FOUNDATION. THIS WORK MAY REQUIRE ADDING CONDUIT EXTENSIONS. IN THE EVENT CONDUIT EXTENSIONS ARE NEEDED, CONTRACTOR SHALL PULL CONDUCTORS FROM CONDUIT(S) AND PROTECT AND PRESERVE IN PLACE BEFORE ADJUSTING CONDUITS, THEN RE-PULL CONDUCTORS THROUGH. THIS WORK AND MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.

LOOP SCHEDULE

LOOP	STATION ALIGNMENT	OFFSET
811	"DI-4" 4401+53.2	6.6' RT
812	"DI-4" 4401+37.2	7.0' RT
813	"DI-4" 4401+21.3	7.4' RT
814	"DI-4" 4401+05.3	7.9' RT
815	"DI-4" 4400+89.3	8.3' RT
821	"DI-4" 4401+48.1	6.0' LT
822	"DI-4" 4401+32.1	6.0' LT
823	"DI-4" 4401+16.1	6.0' LT
824	"DI-4" 4401+00.1	6.0' LT
825	"DI-4" 4400+84.1	6.0' LT
831	"DI-4" 4401+21.6	37.5' LT

FOUNDATION SCHEDULE

SHEET	ITEM	STATION ALIGNMENT	OFFSET	STRUCTURE	REMARKS
HC1/HC2	LC "C"	"HD-3" 6311+57.9	317.9' RT	TYPE 1A LOAD CENTER	
HC1/HC2	TC (EXISTING)	"DI-4" 4401+13.2	63.4' RT	EXISTING TRAFFIC CONTROLLER	MATCH EXISTING STATION AND OFFSET
HC1/HC2	P1	"DI-4" 4400+97.5	31.9' RT	SIGNAL POLE 1	24' DEEP, DRIVEN STEEL PILE FOUNDATION. PILE CAP SHALL MATCH BASE BOLT PATTERN AND CIRCLE.
HC1/HC2	P4	"DI-4" 4400+63.3	81.2' LT	SIGNAL POLE 4	24' DEEP, DRIVEN STEEL PILE FOUNDATION. PILE CAP SHALL MATCH BASE BOLT PATTERN AND CIRCLE.
HC1/HC2	P5	"DI-4" 4400+75.9	21.5' LT	SIGNAL POLE 5	
HC1/HC2	P6	"DI-4" 4405+94.8	32.3' RT	SIGNAL POLE 6	

JUNCTION BOX SCHEDULE

J-BOX	STATION ALIGNMENT	OFFSET	TYPE
CA	"HD-3" 6311+60.1	318.7' RT	2
1	"DI-4" 4400+98.6	41.9' RT	3
1A	"DI-4" 4401+03.8	66.7' RT	2
11	"DI-4" 4401+12.1	23.1' RT	1A
12	"DI-4" 4401+45.6	21.3' RT	1A
4	"DI-4" 4400+77.0	71.5' LT	2
5	"DI-4" 4400+72.7	17.3' LT	1A
6	"DI-4" 4405+88.4	32.3' RT	1A
21	"DI-4" 4400+86.3	32.1' RT	1A
22	"DI-4" 4400+97.2	61.1' RT	1A
41	"DI-4" 4401+25.1	57.3' LT	1A

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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL SYSTEM PLAN
DIMOND BLVD – WEST

DATE/TIME 4/8/2022 2:08 PM | LAYOUT HC1 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

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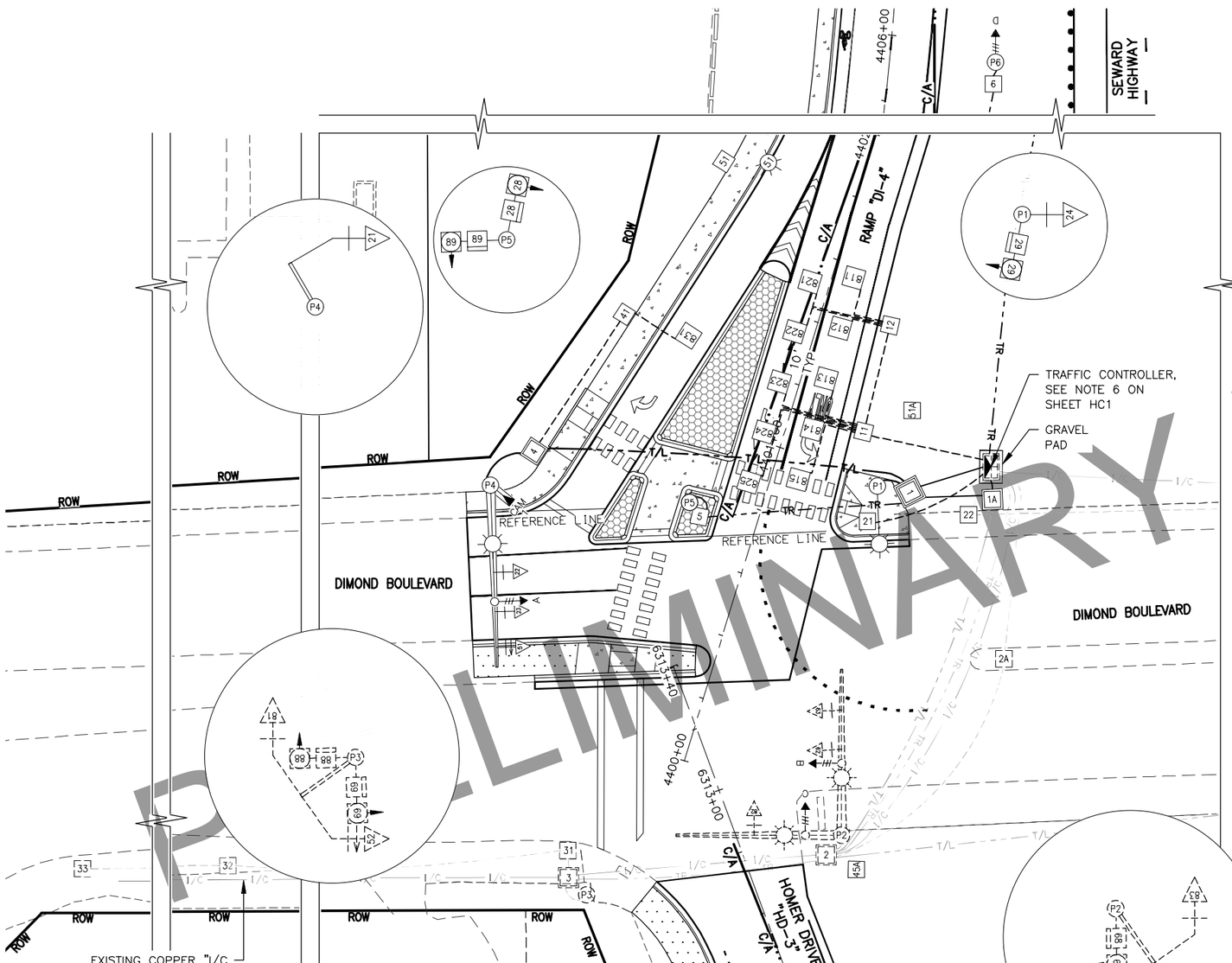
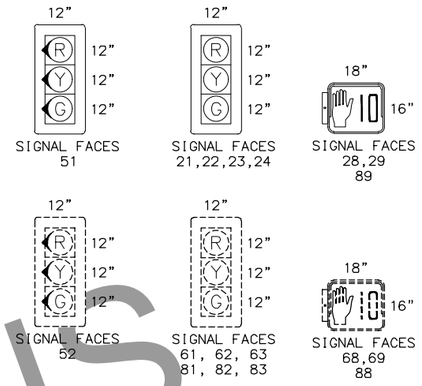
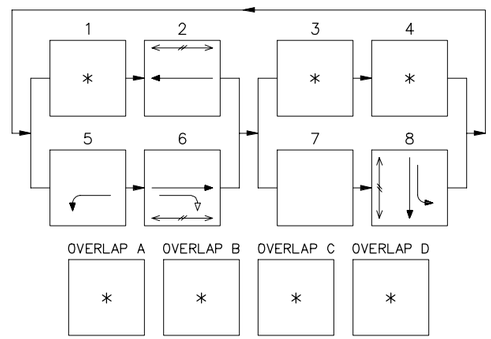
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HC2	HC6



SIGNAL HEAD CONFIGURATIONS





PHASE DIAGRAM

- PEDESTRIAN MOVEMENT
- PROTECTED VEHICLE MOVEMENT
- UNPROTECTED VEHICLE MOVEMENT
- * FUTURE USE/NOT USED

OPTICOM DETECTOR SCHEDULE

LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	MODEL	REMARKS
SIGNAL 4 MASTARM	A	2	E	721	CHANNEL A
SIGNAL 2 MASTARM	B	6	W	721	EXISTING
SIGNAL 2 MASTARM	C	8	N	721	EXISTING
POLE 6	D	8	N	711	CHANNEL D

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

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SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGNAL OPERATIONS PLAN DIMOND BLVD – WEST

DATE/TIME 4/8/2022 2:09 PM | LAYOUT HC2 | DESIGNED ZH | CHECKED KK | DRAFTED ZH

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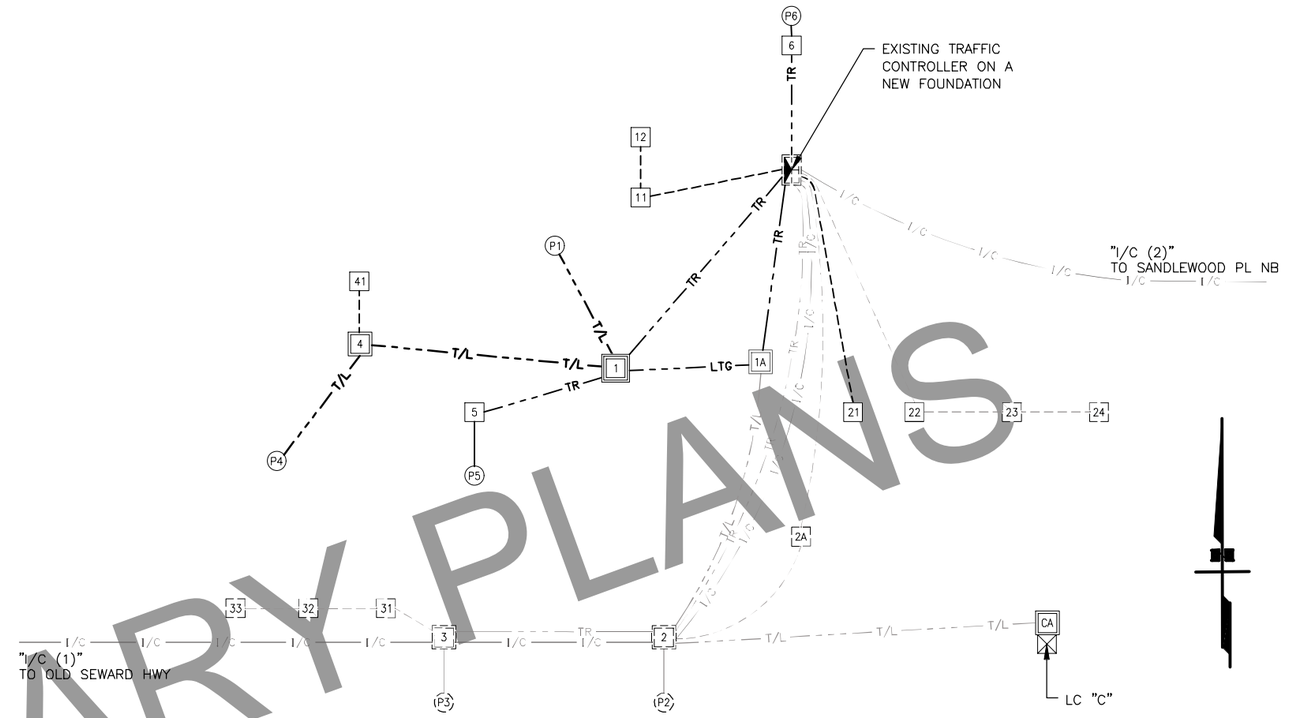
ALASKA	0537008/CFHWY00012	2022	HC3	HC6

CONDUIT SCHEDULE

RUN #	CONDUIT		CABLES	DESTINATION
TC-1	3	RMC	3,21,22,23,24,28,29,51,89	JBOX 1,4,5
	2	RMC	2,10,26,27,86,811,813,831	JBOX 1,4,5
	3	RMC	SPARE	SPARE
TC-2	3	EX	EXISTING	JBOX 2-3
	3	EX	EXISTING	JBOX 2-3
	3	EX	I/C (1)	I/C "OLD SEWARD HWY"
TC-1A	2	RMC	0	TC POWER
	2	RMC	SPARE	SPARE
TC-2A	2	EX	EXISTING	JBOX 2-3
TC-21	2	RMC	EXISTING	WB DETECTION
TC-22	2	EX	EXISTING	WB DETECTION
TC-6	2	RMC	4	SB EVP
	2	RMC	SPARE	SPARE
TC-11	2	RMC	811,813	SB DETECTION
1A-1	2	RMC	EXISTING	INTXL
1A-2	2	EX	0,EXISTING	TC POWER, INTXL
1-4	3	RMC	3,21,22,23,51	JBOX 4
	2	RMC	2,10,831	JBOX 4
	2	RMC	1	INTXL
	3	RMC	SPARE	SPARE
1-P1	3	RMC	24,26,29	POLE 1
	2	RMC	EXISTING 1(IN), 1(OUT)	INTXL
	2	RMC	SPARE	SPARE
1-5	2	RMC	28,89	JBOX 5
	2	RMC	27,86	JBOX 5
	2	RMC	SPARE	SPARE
11-12	2	RMC	811	SB DETECTION
2-CA	2	EX	0,1	TC POWER, INTXL
2-2A	2	EX	EXISTING	EB DETECTION
2-P2	3	EX	EXISTING	POLE 2
	2	EX	EXISTING	INTXL
2-3	3	EX	EXISTING	JBOX 3
	3	EX	EXISTING	JBOX 3
	3	EX	I/C (1)	I/C "OLD SEWARD HWY"
22-23	2	EX	EXISTING	WB DETECTION
23-24	2	EX	EXISTING	WB DETECTION
3-P3	3	EX	EXISTING	POLE 3
3-31	2	EX	EXISTING	EB DETECTION
31-32	2	EX	EXISTING	EB DETECTION
32-33	2	EX	EXISTING	EB DETECTION
4-P4	3	RMC	2,3,10,21,22,23,51	POLE 4
	2	RMC	1	INTXL
	2	SPARE	SPARE	SPARE
4-41	2	RMC	831	SB COUNT LOOP
5-P5	2	RMC	27,28,86,89	POLE 5
	2	RMC	SPARE	SPARE
6-P6	2	RMC	4	POLE 6
	2	RMC	SPARE	SPARE



CABLE SCHEDULE

CABLE	CONDUCTOR	J-BOX PATH	LOAD
I/C (1)	EXISTING	TC(SEWARD HWY SB)-TC(OLD SEWARD HWY)	I/C "OLD SEWARD HWY"
I/C (2)	EXISTING	TC(SEWARD HWY SB)-TC(SANDLEWOOD PL)	I/C "SANDLEWOOD PL NB"
0	3C6	LC-CA-2-1A-TC	SIG CKT "C6"
1	3C8	EXISTING [LC-CA-2-1A-1-P1]-1-4-P4	INTXL CKT "C2/4"
2	3C20	TC-1-4-P4	PRE A (A)
3	3C14	TC-1-4-P4	PRECON (A)
4	3C20	TC-6-P6	PRE D (D)
10	CAT5E	TC-1-4-P4	PTZ CAMERA
21	7C14	TC-1-4-P4	HEAD 21
22	7C14	TC-1-4-P4	HEAD 22
23	7C14	TC-1-4-P4	HEAD 23
24	7C14	TC-1-P1	HEAD 24
26	3C14	TC-1-P1	PEDB 29
27	3C14	TC-1-5-P5	PEDB 28
28	5C14	TC-1-5-P5	PEDI 28
29	5C14	TC-1-P1	PEDI 29
51	7C14	TC-1-4-P4	HEAD 51
86	3C14	TC-1-5-P5	PEDB 89
89	5C14	TC-1-5-P5	PEDI 89
811	7PR18	TC-11-12	LOOPS 811-812,821-822
813	7PR18	TC-11	LOOPS 813-815,823-825
831	7PR18	TC-1-4-41	LOOP 831

WIRING DIAGRAM NOTES:

1. UNLESS OTHERWISE NOTED, INSTALL BARE 1#8 GROUND IN ALL CONDUITS. EXCEPT THOSE CONDUITS THAT CONTAIN LARGER CONDUCTORS. IN THIS CASE, INSTALL WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR.
2. STREET LIGHTING CONDUCTORS NOT SHOWN IN CABLE SCHEDULE FOR CLARITY, SEE HL SHEETS.
3. WIRING DETAILS ARE SHOWN FOR THE PART OF THE SIGNAL COMPONENTS WITHIN THE ANTICIPATED CONSTRUCTION ACTIVITIES. ALL OTHER WIRING CABLES NOT SHOWN ARE TO BE PROTECTED IN PLACE.

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WIRING DIAGRAM
DIMOND BLVD – WEST

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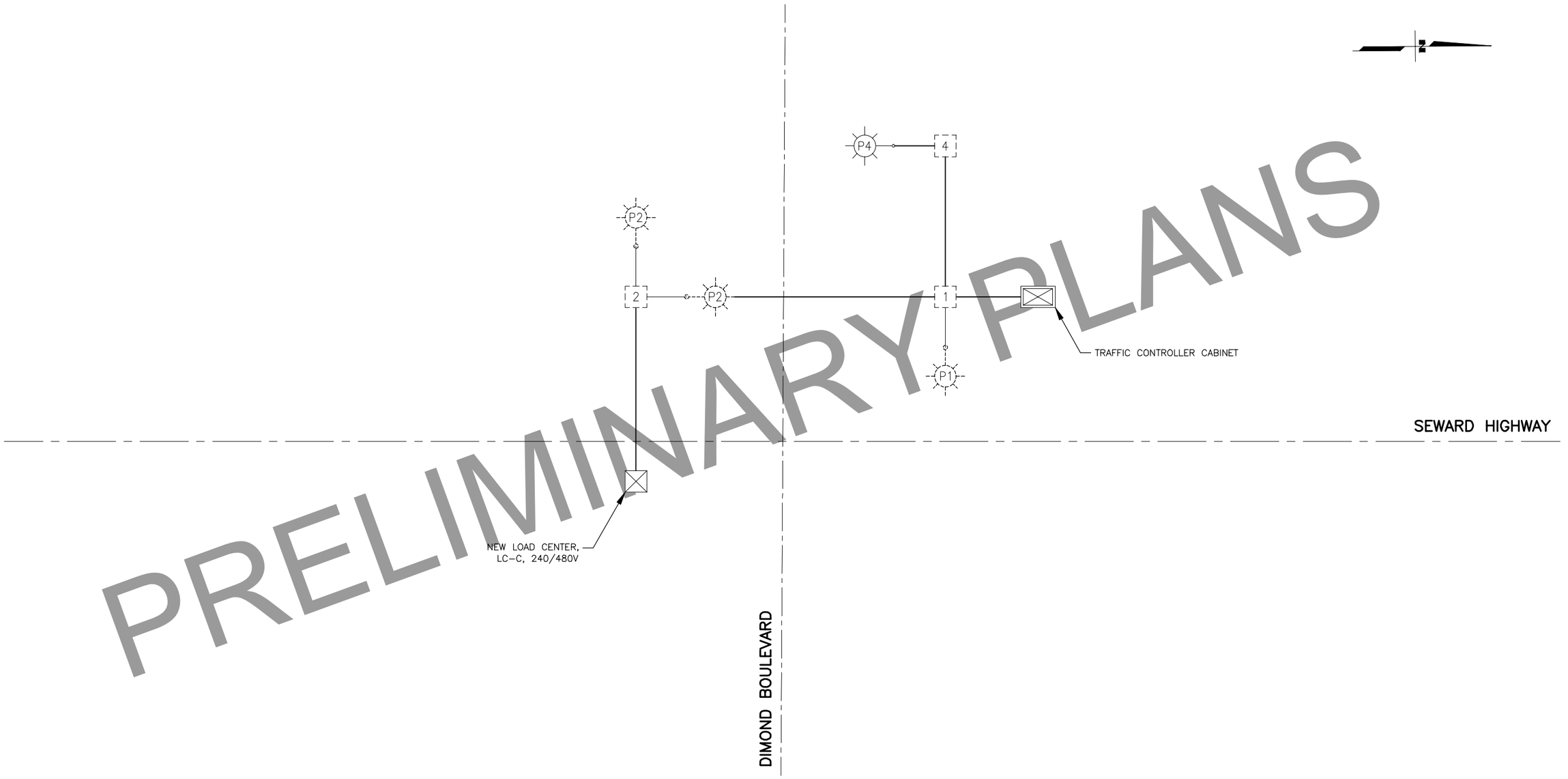


NOTE:

1. THE EXISTING LOAD CENTER LC–C AND ITS FOUNDATION ARE REPLACED WITH NEW LOAD CENTER AND NEW FOUNDATION. ALL THE EXISTING LOADS ARE RECONNECTED TO THIS NEW LOAD CENTER.
2. TYPE 1A LOAD CENTER DETAILS AS PER SHEET H3.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

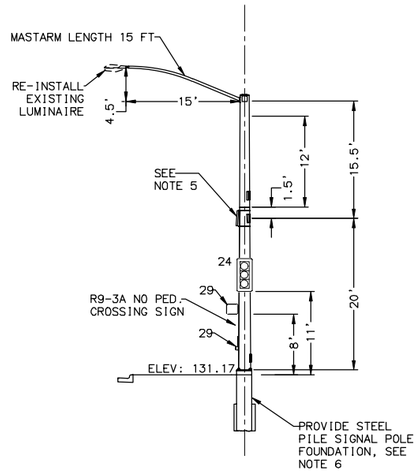
LOAD CENTER LC–C WIRING DIAGRAM

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/11/2022 12:21 AM	HC4	SK	JM	RM

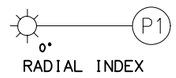
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC0665526\D0876333\00012_HC4.DWG

NO.	DATE	REVISION

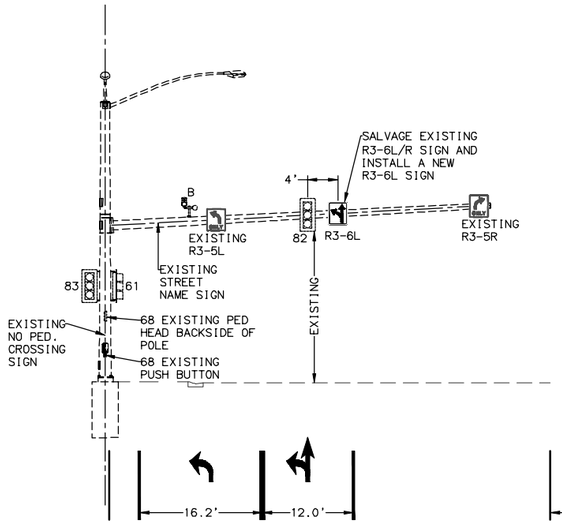
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HC5	HC6



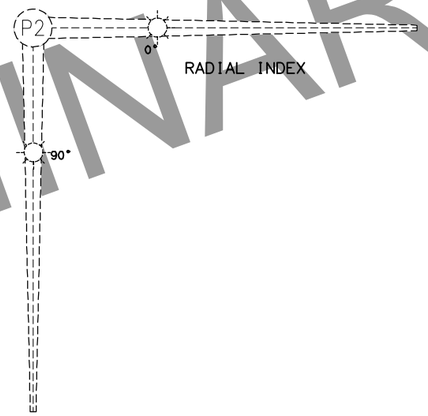
POLE 1
LOOKING WEST



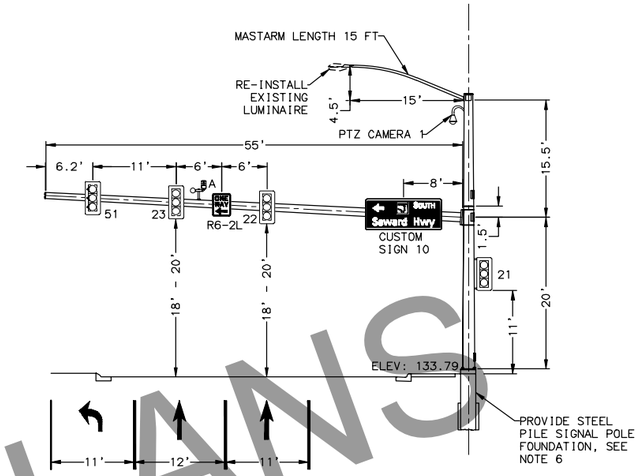
RADIAL INDEX



EXISTING POLE 2
LOOKING SOUTH

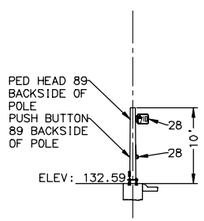


RADIAL INDEX



POLE 4
LOOKING WEST

RADIAL INDEX



POLE 5
LOOKING WEST

NOTES:

1. TOP FINISHED SURFACE OF THE SIGNAL & PEDESTRIAN POLE FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK/PATHWAY OR ADJACENT FINISHED SURFACE. ALL FINAL ELEVATIONS SHALL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO FOUNDATION INSTALLATION.
2. MOUNTING HEIGHT OF PTZ CAMERA SHALL BE FIELD DETERMINED BY THE ENGINEER AND MOA SIGNAL ELECTRONICS.
3. CONTRACTOR SHALL VERIFY SIGNAL HEAD PLACEMENT WITH RECEIVING AND APPROACH LANE OFFSETS FOR POLE P4.
4. LANE MARKING ARE SHOWN FOR REFERENCE ONLY, SEE SIGNING & STRIPING SHEETS FOR EXACT LOCATIONS.
5. PROVIDE AND INSTALL COVER PLATE FOR SIMPLEX CONNECTION FOR POLE 1. POLE 1 SHALL BE DESIGN BASED ON A 35 FOOT MASTARM.
6. PROVIDE SIGNAL POLE 1 AND 4 IN ACCORDANCE WITH STANDARD PLAN T–54.11 AND T–56.11, RESPECTIVELY. EXCEPTION: PROVIDE SIGNAL POLE BASE AND SKIRTS IN CONFORMANCE WITH STANDARD PLAN T–57.11. STEEL PILE BASE CAP SHALL MATCH THE PROVIDED SIGNAL POLE BASE PLATE PATTERN BASE CIRCLE.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562–2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

POLE ELEVATIONS
DIMOND BLVD – WEST

DATE/TIME 4/8/2022 2:09 PM | LAYOUT HC5 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HC6	HC6

SUMMARY OF NEW LOAD CENTER "C"
(LABELED AS LC P IN THE FIELD, SHALL BE SPLIT INTO LC C (MOA) & LC J (DOT))

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	MUNICIPALITY OF ANCHORAGE (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC & PVC
LOAD CENTER LOCATION DATA (STATION : "ML" 385+77.5, OFFSET : 93.0' RT)	
LOAD CENTER:	NEW SEWARD HWY & DIMOND BLVD (SE)
POWER SOURCE:	EXISTING 25 kVA CEA PAD-MOUNT SERVICE TRANSFORMER (PM 5498) (61.144624°, -149.855861°) (NOTE 2)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	EXISTING METER 136 716 645, MOA
PANEL CA (MOA) MAIN SERVICE DISCONNECT	480V, 2-POLE, 100A
CONTACTORS A :	NEW
AIC RATING, PANELS C:	10 kAIC @ 480V

PANEL C - 240/480 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/1	PE CONTROL	0.1	0.1		0	SIGNAL CABINET XFMR PRIMARY (NOTE 4)	40/1	2
3	-	SPACE	0		0	0			4
5	70/1	SIGNAL CABINET (NOTE 3)	1.1	1.44		0.34	INTXL/P1/P4	20/1	6
7	15/1	DIMOND/NSH WEST INTXL * (2 LED,2 HPS)	1.5		1.5	0		70/1	8
9	-	SPACE	0	0		0	SPACE	-	10
11	-		0		0	0	SPARE	40/1	12
13	15/1	SPARE	0	0		0			14
15	15/1	CABINET HEATER	0.5		0.68	0.18	CABINET RECEPTACLE (GFCI)	15/1	16
17	15/1	CABINET LIGHT	0.1	0.1		0	SPACE	-	18
* CIRCUITED THROUGH CONTACTOR A				1.64	2.18		TOTAL kVA*		3.82
							TOTAL AMPS AT 480V		8.0

NOTES:
1. THE LOADS LISTED ON THIS LOAD CENTER SUMMARY REFLECT THE VALUES AS MEASURED 4/08/2020. (CKT 5 ON PANEL B IS EDITED FOR PHASE II DESIGN).
2. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.
3. THE EXISTING SIGNAL CABINET IS NOT CONNECTED TO THE 240/480V BUS. THE 70/1 BREAKER WITHIN THE PANEL IS SUPPLIED DIRECTLY FROM THE SIGNAL CABINET XFMR SECONDARY, AND IS A 120V BREAKER.
4. THE EXISTING S/D XFMR ENCLOSURE IS ENTIRELY CORRODED AND THE NAMEPLATE IS MISSING. THE kVA RATING IS NOT ABLE TO BE DETERMINED. THE SECONDARY VOLTAGE IS 120/240V. AS PER CLIENT REQUEST, THIS S/D TRANSFORMER AND LOAD CENTER ARE REPLACED.

SHORT CIRCUIT CALCULATION - LC "C"

480V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	1/0 Aluminum Conductors
SERVICE CONDUIT	2" RMC
LINE-LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS - LC "C"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	240V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

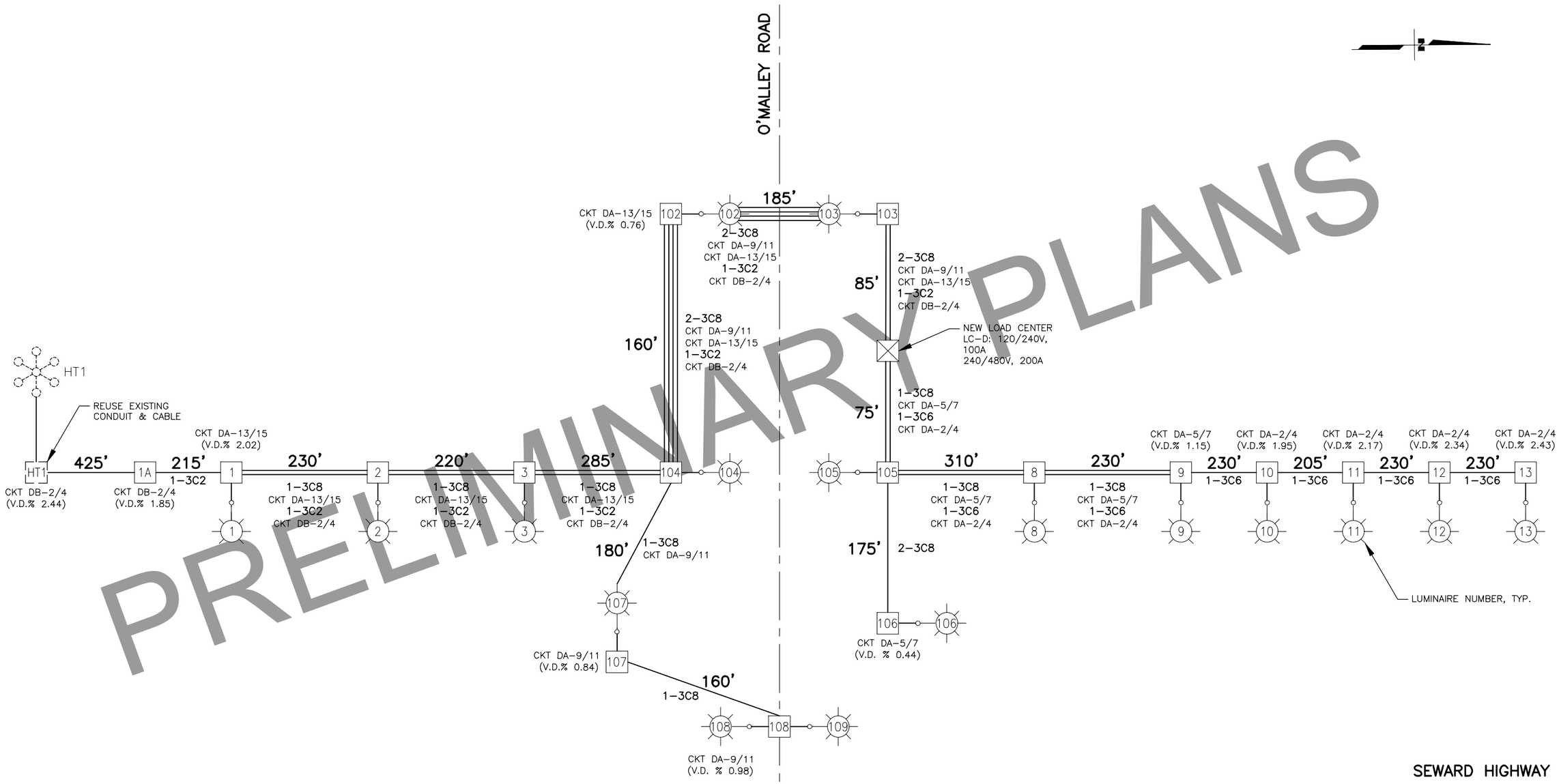
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-C SCHEDULE SHEET

DATE/TIME 4/11/2022 12:21 AM | LAYOUT HC6 | DESIGNED SK | CHECKED JM | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HC6.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL1	HL21



SEWARD HIGHWAY

NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. TYPE 1 LOAD CENTER DETAILS AS PER SHEET H4.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-D WIRING DIAGRAM

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\000012_HL1.DWG | DATE/TIME 4/11/2022 12:21 AM | LAYOUT HL1 | DESIGNED SK | CHECKED JM | DRAFTED RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL2	HL21

SUMMARY OF NEW LOAD CENTER "D"

LOAD CENTER TYPE:	TYPE 1
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC UNDERGROUND FEED FROM UNDERGROUND SERVICE

LOAD CENTER LOCATION DATA (STATION: "X-OM-WB" 2505+58.2, OFFSET : 56.1' LT)

LOAD CENTER:	NEW SEWARD HWY & O'MALLEY RD (NW)
POWER SOURCE:	NEW CEA PROVIDED SERVICE TRANSFORMER AND UNDERGROUND SERVICE (PN 3704)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	YES,200A SOCKET
PANEL DA MAIN SERVICE DISCONNECT	240V, 2-POLE, 100A
PANEL DB MAIN SERVICE DISCONNECT	480V, 2-POLE, 200A
CONTACTOR A:	600V, 10 POLES, 30A
CONTACTOR B:	600V, 10 POLES, 30A
AIC RATING, PANEL A:	14 kAIC @ 240V
AIC RATING, PANEL B:	10kAIC @480V

PANEL DA – 120/240 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	*PE CONTROL*	0.05	0.48		0.43	*LUMINAIRE 10-13**	20/2	2
3			0.05		0.48	0.43			4
5	20/2	*LUMINAIRE 8, 9, 105, 106**	0.30	0.30		0	*SPARE*	20/2	6
7			0.30		0.30	0			8
9	20/2	*LUMINAIRE 107-109**	0.25	0.25		0	*SPACE*	–	10
11			0.25		0.25	0	*SPACE*	–	12
13	20/2	*LUMINAIRE 1-3, 102-104**	0.57	0.57		0	*SPACE*	–	14
15			0.57		0.75	0.18	*CABINET RECEPTACLE (GFCI)*	15/1	16
17	15/1	*CABINET LIGHT*	0.1	0.6		0.5	*CABINET HEATER*	15/1	18
		* CIRCUITED THROUGH CONTACTOR A		2.20	1.78		TOTAL kVA		3.99
							TOTAL AMPS AT 240V		16.6

PANEL DB – 240/480 VAC, 200A BUS
(SUPPLIED BY INTERNAL STEP UP TRANSFORMER INTEGRAL TO LOAD CENTER SEE NOTE 3)

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	30/2	*SPARE*	0	4.00		4	EXISTING HIGHTOWER 1*	30/2	2
3			0		4.00	4			4
5	20/1	*SPARE*	0		0.00	0	*SPARE*	20/1	6
7	–	SPACE	0	0.00		0	SPACE	–	8
9	–	SPACE	0		0.00	0	SPACE	–	10
11	–	SPACE	0	0.00		0	SPACE	–	12
13	–	SPACE	0		0	0	SPACE	–	14
15	–	SPACE	0	0		0	SPACE	–	16
		* CIRCUITED THROUGH CONTACTOR B		4.00	4.00		TOTAL kVA		8.00
							TOTAL AMPS AT 480V		16.7

NOTES:
1. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.
2. THE MAXIMUM AMPERE READING WAS USED TO CALCULATE CONNECTED LOAD OF EACH OF THE HIGH TOWER CIRCUITS.
3. INTERNAL STEP-UP TRANSFORMER INTEGRAL TO LOAD CENTER IS AN EATON CUTLER-HAMMER DRY TYPE 15kVA CAT NO. S20N11S15N WITH 1.4% IMPEDANCE.

SHORT CIRCUIT CALCULATION – LC "D"

480V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.9, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	240/480V
TRANSFORMER IMPEDANCE	0.012
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	(3) 1/0 Aluminum Conductors
SERVICE CONDUIT	2" RMC
LINE-LINE FAULT	4622A

VOLTAGE DROPS

240V IN A 1-PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.9, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
DA-5/7	E9 TO E8	8	230	215.56	0.94	0.14	1.15
	E8 TO E105	8	310	431.11	1.87	0.37	1.02
	E105TOE106	8	175	431.11	1.87	0.21	0.65
	E106 TO E105	8	175	597.78	2.60	0.29	0.44
	E105 TO LC D	8	75	764.44	3.32	0.16	0.16
DA-9/11	E108 &E109 TO E107	8	158	333.33	1.45	0.14	0.98
	E107 TO E104	8	180	500.00	2.17	0.25	0.84
	E104 TO E102	8	160	500.00	2.17	0.22	0.59
	E102 TO E103	8	185	500.00	2.17	0.25	0.37
	E103 TO LC D	8	85	500.00	2.17	0.12	0.12
DA-13/15	E1 TO E2	8	228	215.56	0.94	0.13	2.02
	E2 TO E3	8	222	431.11	1.87	0.26	1.89
	E3 TO E 104	8	285	646.67	2.81	0.50	1.63
	E104 TO E 102	8	160	813.33	3.54	0.36	1.12
	E102 TO E103	8	185	980.00	4.26	0.50	0.76
	E103 TO LC D	8	85	1146.67	4.99	0.27	0.27
DA-2/4	E13 TO E12	6	230	215.56	0.94	0.09	2.43
	E12 TO E11	6	226	431.11	1.87	0.17	2.34
	E11 TO E10	6	198	646.67	2.81	0.22	2.17
	E10 TO E9	6	232	862.22	3.75	0.35	1.95
	E9 TO E8	6	225	862.22	3.75	0.34	1.60
	E8 TO E105	6	295	862.22	3.75	0.45	1.26
	E105 TO E103	6	148	862.22	3.75	0.22	0.81
	E103 TO E102	6	173	862.22	3.75	0.26	0.59
	E102 TO E104	6	153	862.22	3.75	0.23	0.33
	E104 TO LC D	6	65	862.22	3.75	0.10	0.10
DB-2/4 (480V)	HT1 TO JB 1A	2	425	8000.00	17.02	0.59	2.44
	JB1A TO E1	2	215	8000.00	17.02	0.30	1.85
	E1 TO E2	2	228	8000.00	17.02	0.31	1.55
	E2 TO E3	2	222	8000.00	17.02	0.31	1.24
	E3 TO E104	2	246	8000.00	17.02	0.34	0.93
	E104 TO E102	2	160	8000.00	17.02	0.22	0.59
	E102 TO E103	2	185	8000.00	17.02	0.26	0.37
	E103 TO LC D	2	85	8000.00	17.02	0.12	0.12

ARC FLASH AND SHOCK HAZARD RESULTS – LC "D"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	480V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

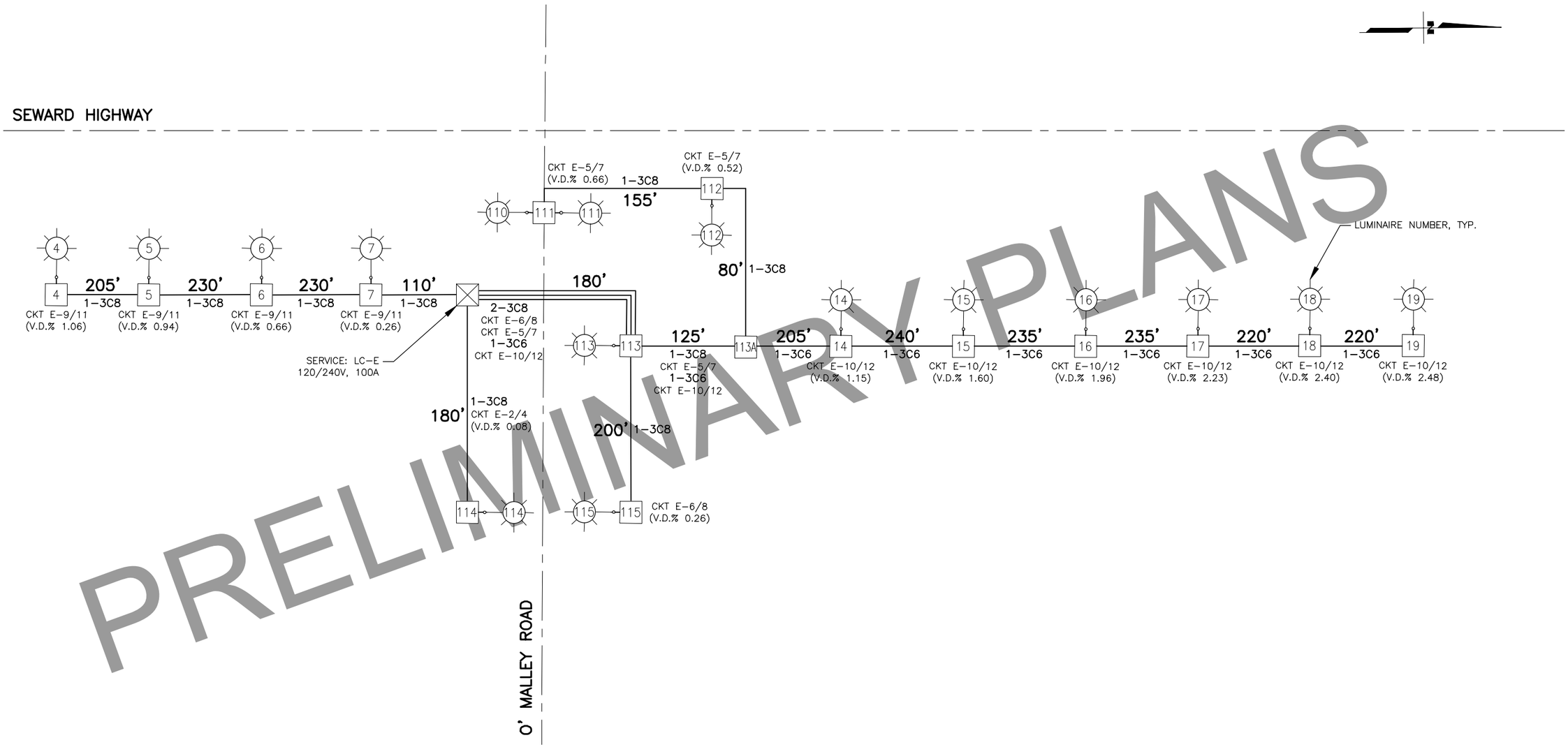
LOAD CENTER LC-D SCHEDULE SHEET

DATE/TIME 4/11/2022 12:21 AM | LAYOUT HL2 | DESIGNED SK | CHECKED JM | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HL2.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL3	HL21



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. TYPE 1A LOAD CENTER DETAILS AS PER SHEET H3.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-E
WIRING DIAGRAM

DATE/TIME 4/11/2022 12:21 AM | LAYOUT HL3 | DESIGNED SK | CHECKED JM | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_HL3.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL4	HL21

SUMMARY OF NEW LOAD CENTER "E"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC UNDERGROUND FEED FROM UNDERGROUND SERVICE
LOAD CENTER LOCATION DATA (STATION : "X-OM-EB" 2613+15.5, OFFSET : 62.6' RT)	
LOAD CENTER:	NEW SEWARD HWY & O'MALLEY RD (SE)
POWER SOURCE:	EXISTING CEA TRANSFORMER (PM 6397)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	YES, 100A SOCKET
PANEL MAIN SERVICE DISCONNECT	240V, 2-POLE, 100A
CONTACTOR A:	600V, 10 POLES, 30A
AIC RATING, PANEL E:	14kAIC @ 240V

PANEL E -120/240 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	*PE CONTROL*	0.05	0.13		0.08	*LUMINAIRE 114**	20/2	2
3			0.05		0.13	0.08			4
5	20/2	*LUMINAIRES 110-112**	0.25	0.42		0.17	*LUMINAIRES 113 & 115**	20/2	6
7			0.25		0.42	0.17			8
9	20/2	*LUMINAIRES 4-7**	0.43	1.08		0.65	*LUMINAIRES 14-19**	20/2	10
11			0.43		1.08	0.65			12
13	20/2	*SPARE*	0	0.05		0.05	*SPACE*	-	14
15			0		0.18	0.18	*CABINET RECEPTACLE (GFCI)*	15/1	16
17	15/1	*CABINET TRANSFORMER LIGHT*	0.1	0.6		0.5	*CABINET HEATER*	15/1	18
* CIRCUITED THROUGH CONTACTOR A				2.28	1.81	TOTAL kVA			4.09
						AMPS AT 240V			17.0

NOTES:
1. THE LOADS LISTED ON THIS LOAD CENTER SUMMARY REFLECT THE VALUES AS MEASURED 4/08/2020.
2. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.

SHORT CIRCUIT CALCULATION - LC "E"

480V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	(3) 1/0 Aluminum
SERVICE CONDUIT	2" RMC
LINE-LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS - LC "E"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	240V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

VOLTAGE DROPS

240V IN A 1-PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
E-2/4	E114 TO LC E	8	179	166.67	0.72	0.08	0.08
E-6/8	E115 TO E113	8	201	166.67	0.72	0.09	0.26
	E113 TO LC E	8	181	333.33	1.45	0.17	0.17
E-5/7	E110 &E111 TO E112	8	154	333.33	1.45	0.14	0.66
	E112 TO JB 113A	8	77	500.00	2.17	0.11	0.52
	JB 113A TO E113	8	124	500.00	2.17	0.17	0.42
	E113 TO LC E	8	181	500.00	2.17	0.25	0.25
E-10/12	E19 TO E18	6	221	215.56	0.94	0.08	2.48
	E18 TO E17	6	222	431.11	1.87	0.17	2.40
	E17 TO E16	6	236	646.67	2.81	0.27	2.23
	E16 TO E15	6	236	862.22	3.75	0.36	1.96
	E15 TO E14	6	239	1077.78	4.69	0.45	1.60
	E14 TO JB 113A	6	204	1293.33	5.62	0.46	1.15
	JB 113A TO E113	6	124	1293.33	5.62	0.28	0.69
	E113 TO LC E	6	181	1293.33	5.62	0.41	0.41
E-9/11	E4 TO E5	8	205	215.56	0.94	0.12	1.06
	E5 TO E6	8	230	431.11	1.87	0.27	0.94
	E6 TO E7	8	227	646.67	2.81	0.40	0.66
	E7 TO LC E	8	111	862.22	3.75	0.26	0.26

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

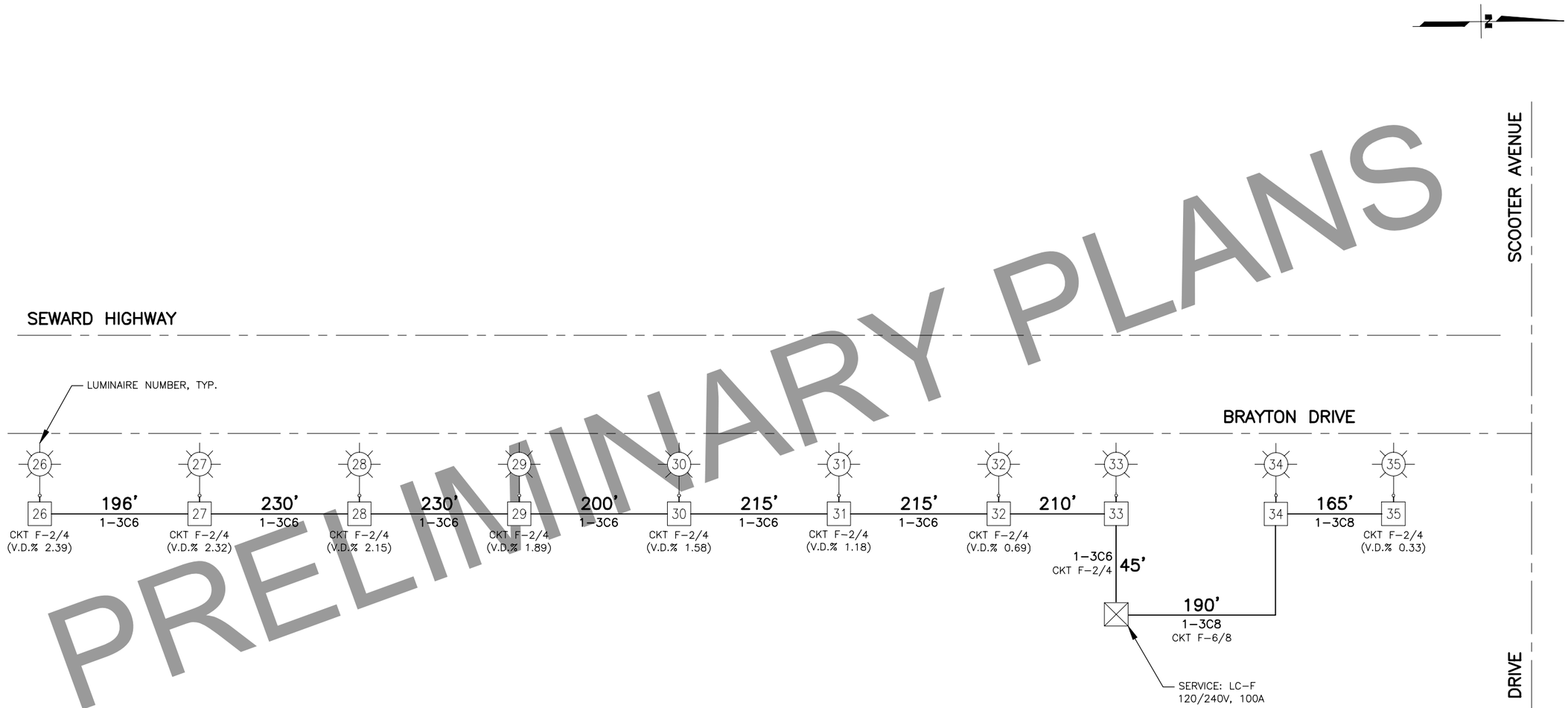
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC-E
SCHEDULE SHEET

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HL4.DWG | DATE/TIME | 4/11/2022 12:21 AM | LAYOUT | HL4 | DESIGNED | SK | CHECKED | JM | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL5	HL21



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. TYPE 1A LOAD CENTER DETAILS AS PER SHEET H3.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-F WIRING DIAGRAM

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DATE/TIME: 4/11/2022 12:21 AM | LAYOUT: HL5 | DESIGNED: SK | CHECKED: JM | DRAFTED: RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL6	HL21

SUMMARY OF NEW LOAD CENTER "F"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC UNDERGROUND FEED FROM UNDERGROUND SERVICE
LOCATION DATA (STATION : "SA–2" 3214+67.06, OFFSET : 53.8' RT)	
LOAD CENTER:	BRAYTON DR, NSH OFF RAMP
POWER SOURCE:	NEW CEA PROVIDED SERVICE TRANSFORMER (PM 5784)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1–PHASE, 3–WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	YES, 100A SOCKET
PANEL MAIN SERVICE DISCONNECT	240V, 2–POLE, 100A
CONTACTOR A:	600V, 10 POLES, 30A
AIC RATING, PANEL F:	14kAIC @ 240V

PANEL F – 120/240V,100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	20/2	*PE CONTROL*	0.05	0.91		0.86	*LUMINAIRE 26–33**	15/2	2
3			0.05		0.91	0.86			4
5	20/2	*SPARE*	0	0.22		0.22	*LUMINAIRE 34–35**	20/2	6
7			0		0.22	0.22			8
9	20/2	*SPARE*	0	0		0	*SPARE*	20/2	10
11			0		0	0			12
13	–	*SPACE*	0	0		0	*SPACE*	–	14
15	–	*SPACE*	0		0.18	0.18	*CABINET RECEPTACLE (GFCI)*	15/1	16
17	15/1	*CABINET LIGHT*	0.1	0.6		0.5	*CABINET HEATER*	15/1	18
* CIRCUITED THROUGH CONTACTOR A				1.73	1.31	TOTAL kVA			3.04
				AMPS AT 240V					12.6

NOTES:
1. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.

SHORT CIRCUIT CALCULATION – LC "F"

480V IN A 1–PH, 3W CONFIGURATION WITH A POWER–FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET–THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	3389A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	(3) 1/0 Aluminum conductors
SERVICE CONDUIT	2" RMC
LINE–LINE FAULT	3179A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "F"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	240V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

VOLTAGE DROPS

240V IN A 1–PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
F–2/4	E26 TO E27	6	196	216	0.94	0.07	2.39
	E27 TO E28	6	231	431	1.87	0.17	2.32
	E28 TO E29	6	230	647	2.81	0.26	2.15
	E29 TO E30	6	200	862	3.75	0.30	1.89
	E30 TO E31	6	215	1078	4.69	0.41	1.58
	E31 TO E32	6	215	1293	5.62	0.49	1.18
	E32 TO E33	6	210	1509	6.56	0.55	0.69
	E33 TO LC F	6	45	1724	7.50	0.14	0.14
F–6/8	E35 TO E34	8	163	216	0.94	0.10	0.33
	E34 TO LC F	8	200	431	1.87	0.24	0.24

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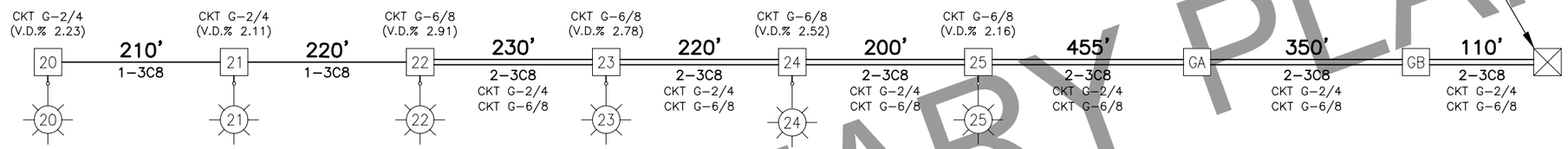
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC–F
SCHEDULE SHEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL7	HL21



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. EXISTING ON-RAMP LOAD CENTER SHALL BE RELOCATED AND REUSED. THE LOCATION OF THE LOAD CENTER IS SHOWN IN THE ILLUMINATION PLANS. LOAD CENTER SHALL HAVE NEW FOUNDATION AT THIS NEW LOCATION.
3. CONTRACTOR SHALL ADD A STEP DOWN TRANSFORMER, 480:120/240V, IN A WEATHERPROOF ENCLOSURE NEXT TO THE LOAD CENTER. CONNECT THE UTILITY SOURCE TO THE PRIMARY SIDE OF THIS STEP DOWN TRANSFORMER. THE SECONDARY SIDE OF THE STEP DOWN TRANSFORMER SHALL BE FED AS THE SOURCE TO THIS LOAD CENTER.

JACOBS ENGINEERING GROUP, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-G WIRING DIAGRAM

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL8	HL21

SUMMARY OF NEW LOAD CENTER "G" (LABELED AS LC C IN THE FIELD)

LOAD CENTER TYPE:	TYPE 1
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC UNDERGROUND FEED FROM UNDERGROUND SERVICE
LOAD CENTER LOCATION DATA (STATION : "SA–3" 3316+17.1, OFFSET : 184.1' LT)	
LOAD CENTER:	HOMER DR (FROM SCOOTER AVE), SSH ON RAMP
POWER SOURCE:	EXISITNG CEA TRANSFORMER (STATION : "SA–3" 3316+16.9, OFFSET : 194.0' LT) (PM 3988)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1–PHASE, 3–WIRE,240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	YES, 100A SOCKET
PANEL G MAIN SERVICE DISCONNECT	240V, 2–POLE, 100A
CONTACTOR A:	600V, 10 POLES, 30A
AIC RATING, PANEL GA:	10kAIC @ 480V

PANEL G – 120/240 VAC, 100A BUS
(SUPPLIED BY INTERNAL STEP DOWN TRANSFORMER INTEGRAL O LOAD CENTER, SEE NOTE 2)

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	*PE CONTROL*	0.05	0.27		0.22	*LUMINAIRES 20–21**	20/2	2
3			0.05		0.27	0.22			4
5	–	*SPACE*	0	0.43		0.43	*LUMINAIRES 22–25**	20/2	6
7	–	*SPACE*	0		0.43	0.43			8
9	20/1	*SPARE*	0	0		0	*SPARE*	20/1	10
11	20/1	*SPARE*	0		0	0	*SPARE*	20/1	12
13	–	*SPACE*	0	0.18		0.18	*CABINET RECEPTACLE (GFCI)*	15/1	14
15	15/1	*CABINET LIGHT*	0.1		0.6	0.5	*CABINET HEATER*	15/1	16
* CIRCUITED THROUGH CONTACTOR A			0.88	1.30		TOTAL kVA			2.17
						AMPS AT 240V			9.1

NOTES:
1. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.
2. INTERNAL STEP–UP TRANSFORMER INTEGRAL TO LOAD CENTER IS AN EATON CUTLER–HAMMER DRY TYPE 15KVA CAT NO. S20N11S15N WITH 1.4% IMPEDANCE.

SHORT CIRCUIT CALCULATION – LC "G"

480V IN A 1–PH, 3W CONFIGURATION WITH A POWER–FACTOR OF 0.90, 1 ALUMINIUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	240/480V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET–THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	(3) 1/0 ALUMINIUM
SERVICE CONDUIT	2" RMC
LINE–LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "G"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	480V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

VOLTAGE DROPS

120V IN A 1–PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
G–2/4 (240V)	E20 TO E21	8	210	216	0.94	0.12	2.23
	E21 TO LC G	8	1785	431	1.87	2.11	2.11
G–6/8 (240V)	E22 TO E23	8	230	216	0.94	0.14	2.91
	E23 TO E24	8	220	431	1.87	0.26	2.78
	E24 TO E25	8	200	647	2.81	0.35	2.52
	E25 TO LC G	8	915	862	3.75	2.16	2.16

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC–G
SCHEDULE SHEET

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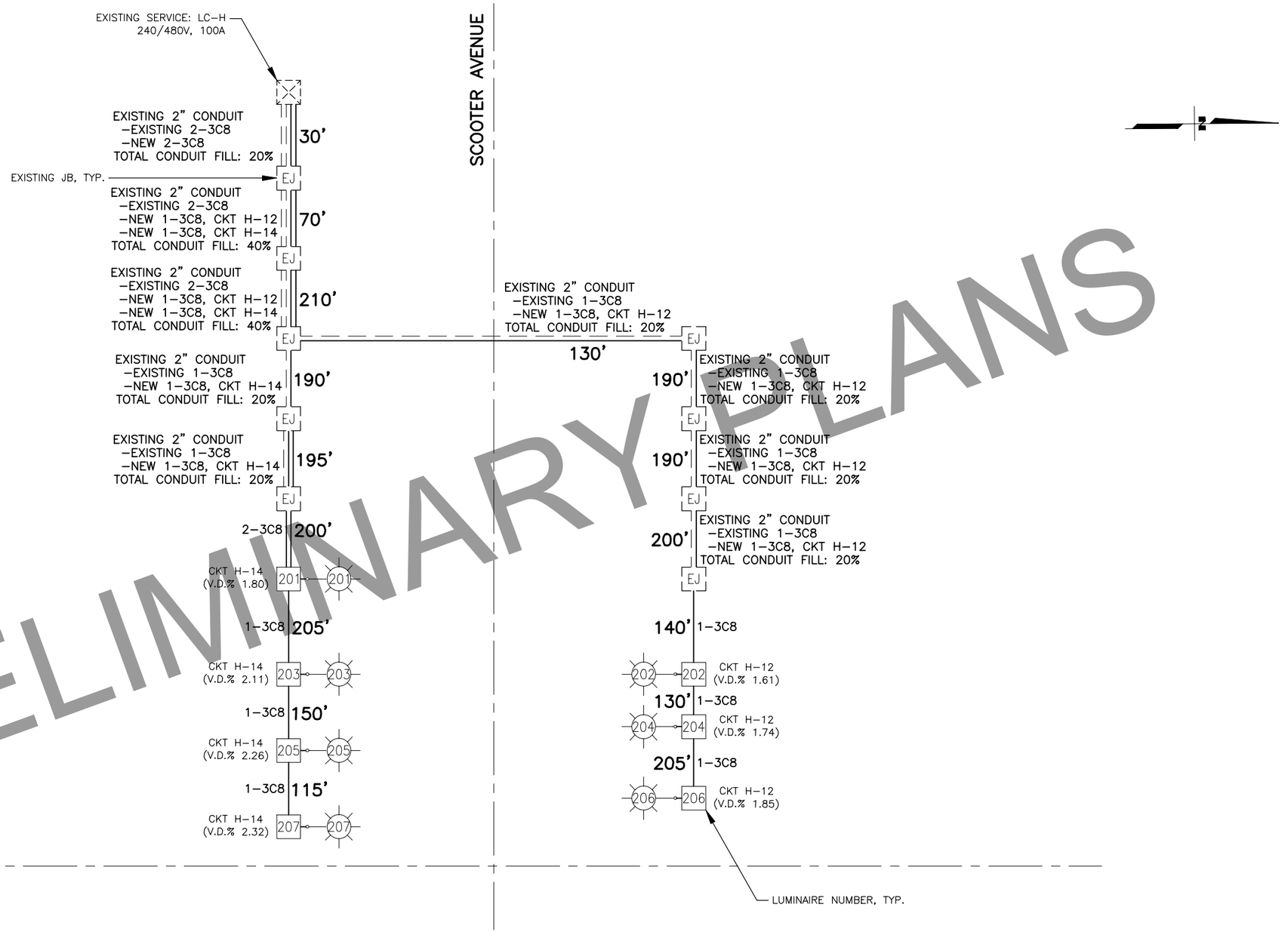
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL9	HL21



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC–H
WIRING DIAGRAM

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655226\D0876333\00012_HL9.DWG
DATE/TIME | 4/11/2022 12:21 AM
LAYOUT | HL9
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL10	HL21

SUMMARY OF EXISTING LOAD CENTER "H" (LABELED AS LC B IN THE FIELD)

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	MUNICIPALITY OF ANCHORAGE (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC & PVC

LOAD CENTER LOCATION DATA (STATION: "X–SA" 3001+62.3, OFFSET : 108.9' RT, APPROX.)

LOAD CENTER:	OLD SEWARD HWY AND SCOOTER AVE, SE
POWER SOURCE:	EXISTING 25 kVA CEA PAD–MOUNT SERVICE TRANSFORMER (STATION: "X–SA" 3011+23.2, OFFSET : 167.4' RT, APPROX.) (NOTE 2)
PHOTOELECTRIC CONTROL:	EXISTING AT LOAD CENTER
SERVICE VOLTAGE:	1–PHASE, 3–WIRE, 240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	EXISTING METER
PANEL H MAIN SERVICE DISCONNECT	480V, 2–POLE, 100A
CONTACTOR A:	EXISTING 12–POLE, 30A
AIC RATING, PANEL H:	14 kAIC @ 480V

PANEL H– 240/480 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	20/2	L1–L7, ODD* (LUM'S L1, L3, L5) (L7 REMOVED)	0.43	0.53		0.1	PE CONTROL	15/1	2
3			0.43		0.43	0	SPARE	20/2	4
5	20/2	L2–L8, EVEN* (LUM'S L2, L4, L6) (L8 REMOVED)	0.43	0.43		0			6
7			0.43		0.43	0	SPARE	20/2	8
9	20/2	SPARE	0	0		0			10
11			0		0.55	0.55	*LUMINAIRE 202–206, EVEN* (LUM'S 202, 204, 206)*	20/1	12
13	20/2	SPARE	0	0.73		0.73	*LUMINAIRE 201–207, ODD* (LUM'S 201, 203, 205, 207)*	20/1	14
15			0		0	0	SPACE	–	16
17	–	SPACE	0	0		0	SPACE	–	18
* CIRCUITED THROUGH CONTACTOR A			1.69	1.41			TOTAL kVA		3.10
							AMPS AT 480V		6.5

NOTES:
1. THE LOADS LISTED ON THIS LOAD CENTER SUMMARY REFLECT THE VALUES AS MEASURED 3/19/2020. (NEW CKT 4 AND 6 ARE ADDED, L7 AND L8 ARE REMOVED IN PHASE II).
2. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.

VOLTAGE DROPS

240V IN A 1–PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
H–12	206 to 204	8	205	183	0.8	0.10	2.00
	204 to 202	8	130	367	1.6	0.13	1.90
	202 to LC–H	8	1175	550	2.4	1.77	1.77
H–14	207 TO 205	8	115	183	0.8	0.06	2.32
	205 TO 203	8	150	367	1.6	0.15	2.26
	203 TO 201	8	205	551	2.4	0.31	2.11
	201 TO LC–H	8	895	733	3.2	1.80	1.80

SHORT CIRCUIT CALCULATION – LC "H"

480V IN A 1–PH, 3W CONFIGURATION WITH A POWER–FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	240/480V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET–THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	1/0 Aluminum Conductors
SERVICE CONDUIT	2" RMC
LINE–LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "H"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	480V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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(907) 762–1500
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC–H
SCHEDULE SHEET

DATE/TIME 4/11/2022 12:21 AM | LAYOUT HL10 | DESIGNED SK | CHECKED JM | DRAFTED RM
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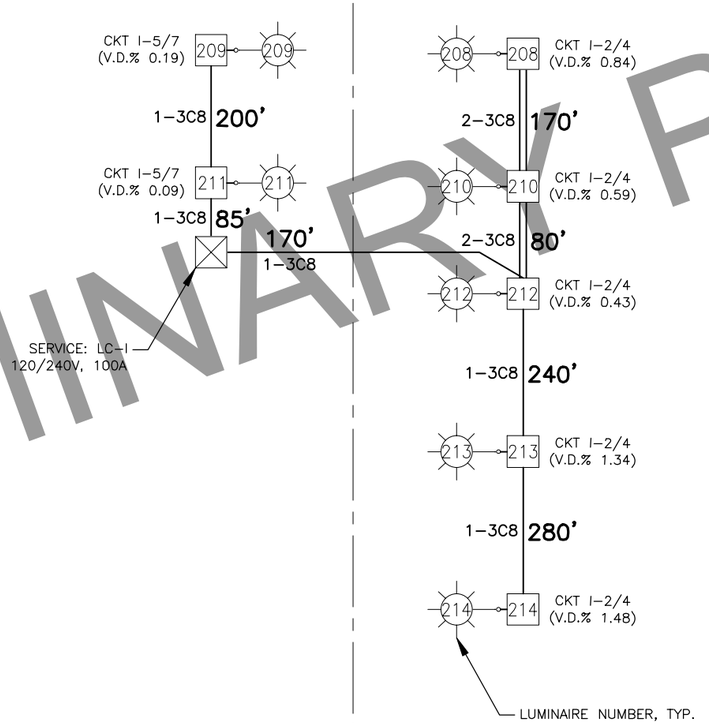
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL11	HL21

SCOOTER AVENUE

SEWARD HIGHWAY



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.
2. TYPE 1A LOAD CENTER DETAILS AS PER SHEET H3.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC–I
WIRING DIAGRAM

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0665526\D0876333\00012_HL11.DWG | DATE/TIME | 4/11/2022 12:22 AM | LAYOUT | HL11 | DESIGNED | SK | CHECKED | JM | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL12	HL21

SUMMARY OF NEW LOAD CENTER "I"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	MUNICIPALITY OF ANCHORAGE (MOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC & PVC

LOAD CENTER LOCATION DATA (STATION: "X-SA" 3017+6.4, OFFSET : 96.0' RT)

LOAD CENTER:	SEWARD HWY AND SCOOTER AVE, SE
POWER SOURCE:	NEW CEA PROVIDED SERVICE TRANSFORMER (PM 6098)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 120/240 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	YES, 100A SOCKET
PANEL MAIN SERVICE DISCONNECT	240V, 2-POLE, 100A
CONTACTOR A:	600V, 10 POLES, 30A
AIC RATING, PANEL I:	14kAIC @ 240V

PANEL I – 120/240 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	15/2	*PE CONTROL*	0.05	0.51		0.46	*LUMINAIRE 208, 210, 212, 213, 214**	20/2	2
3			0.05		0.51	0.46			4
5	20/2	*LUMINAIRE 209, 211**	0.18	0.18		0	*SPACE*	–	6
7			0.18		0.18	0	*SPACE*	–	8
9	20/2	*SPARE*	0	0		0	*SPACE*	–	10
11			0		0	0	*SPARE*	20/2	12
13	20/2	*SPARE*	0	0		0			14
15			0		0.18	0.18	*CABINET RECEPTACLE (GFCI)*	15/1	16
17	15/1	*CABINET LIGHT*	0.1	0.6		0.5	*CABINET HEATER*	15/1	18
* CIRCUITED THROUGH CONTACTOR A				1.29	0.87		TOTAL kVA		2.16
							AMPS AT 240V		9.0

SHORT CIRCUIT CALCULATION – LC "I"

480V IN A 1-PH, 3W CONFIGURATION WITH A POWER-FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	120/240V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	1/0 Aluminum Conductors
SERVICE CONDUIT	2" RMC
LINE-LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "I"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	240V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

VOLTAGE DROPS

240V IN A 1-PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
I-2/4	214 TO 213	8	280	183	0.8	0.14	1.48
	213 TO 208	8	490	367	1.6	0.49	1.34
	208 to 210	8	170	550	2.4	0.26	0.84
	210 to 212	8	80	733	3.2	0.16	0.59
	212 to LC-I	8	170	917	4.0	0.43	0.43
I-5/7	209 TO 211	8	200	183	0.8	0.10	0.19
	211 TO LC-I	8	85	367	1.6	0.09	0.09

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC-I
SCHEDULE SHEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL13	HL21

SUMMARY OF NEW LOAD CENTER "J"
(LABELED AS LC "P" IN THE FIELD, SHALL BE SPLIT INTO LC "C" (MOA) & LC "J" (DOT))

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC & PVC

LOAD CENTER LOCATION DATA (STATION : "ML" 385+77.20, OFFSET : 107.7' RT)

LOAD CENTER:	NEW SEWARD HWY & DIMOND BLVD (SE)
POWER SOURCE:	EXISTING 25 kVA CEA PAD-MOUNT SERVICE TRANSFORMER (PM 5498) (61.144624°, -149.855861°) (NOTE 2)
PHOTOELECTRIC CONTROL:	YES
SERVICE VOLTAGE:	1-PHASE, 3-WIRE, 240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	EXISTING METER 136 716 646, SOA
PANEL JA (DOT) MAIN SERVICE DISCONNECT	480V, 2-POLE, 200A
CONTACTORS A :	NEW
AIC RATING, PANEL J:	10 kAIC @ 480V

PANEL J - 240/480 VAC, 200A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	20/2	SPARE (NOTE 3)	0	0		0	SPARE	20/2	2
3			0		0	0			4
5	20/1	LUMINAIRES EAST & WEST OF OVERPASS & UNDER BRIDGE **	1.3	1.4		0.1	SPARE	40/2	6
7			1.3	1.3	1.3	0			8
9	–	SPACE	0	0	0	0	SPACE	–	10
11	–	SPACE	0	0	0	0	SPACE	–	12
13	–	SPACE	0	0	0	0	SPACE	–	14
15	15/1	*CABINET HEATER*	0.05	0.23	0.23	0.18	*CABINET RECEPTACLE*	15/1	16
17	15/1	*CABINET LIGHT*	0.1	0.1	0.1	0	SPACE	–	18
** CIRCUITED THROUGH CONTACTOR A			3.03	1.63	TOTAL kVA				4.66
					TOTAL AMPS AT 480V				9.7

NOTES:
1. THE LOADS LISTED ON THIS LOAD CENTER SUMMARY REFLECT THE VALUES AS MEASURED 4/08/2020. (CKT 5 ON PANEL B IS EDITED FOR PHASE II DESIGN).
2. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATION. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.25
3. THE CONDUCTORS HAVE BEEN DISCONNECTED FROM THIS BREAKER AND ARE SPLICED WITH THE CKT 5/7 CONDUCTORS.
4. THE S/D XFMR ENCLOSURE IS ENTIRELY CORRODED AND THE NAMEPLATE IS MISSING. THE KVA RATING IS NOT ABLE TO BE DETERMINED. THE SECONDARY VOLTAGE IS 120/240V.
5. THE SIGNAL CABINET IS NOT CONNECTED TO THE 240/480V BUS. THE 70/1 BREAKER WITHIN THE PANEL IS SUPPLIED DIRECTLY FROM THE SIGNAL CABINET XFMR SECONDARY, AND IS A 120V BREAKER.

STATE OF ALASKA
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APRIL 2022
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC-J
SCHEDULE SHEET

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DATE/TIME: 4/11/2022 12:22 AM
LAYOUT: HL13
DESIGNED: SK
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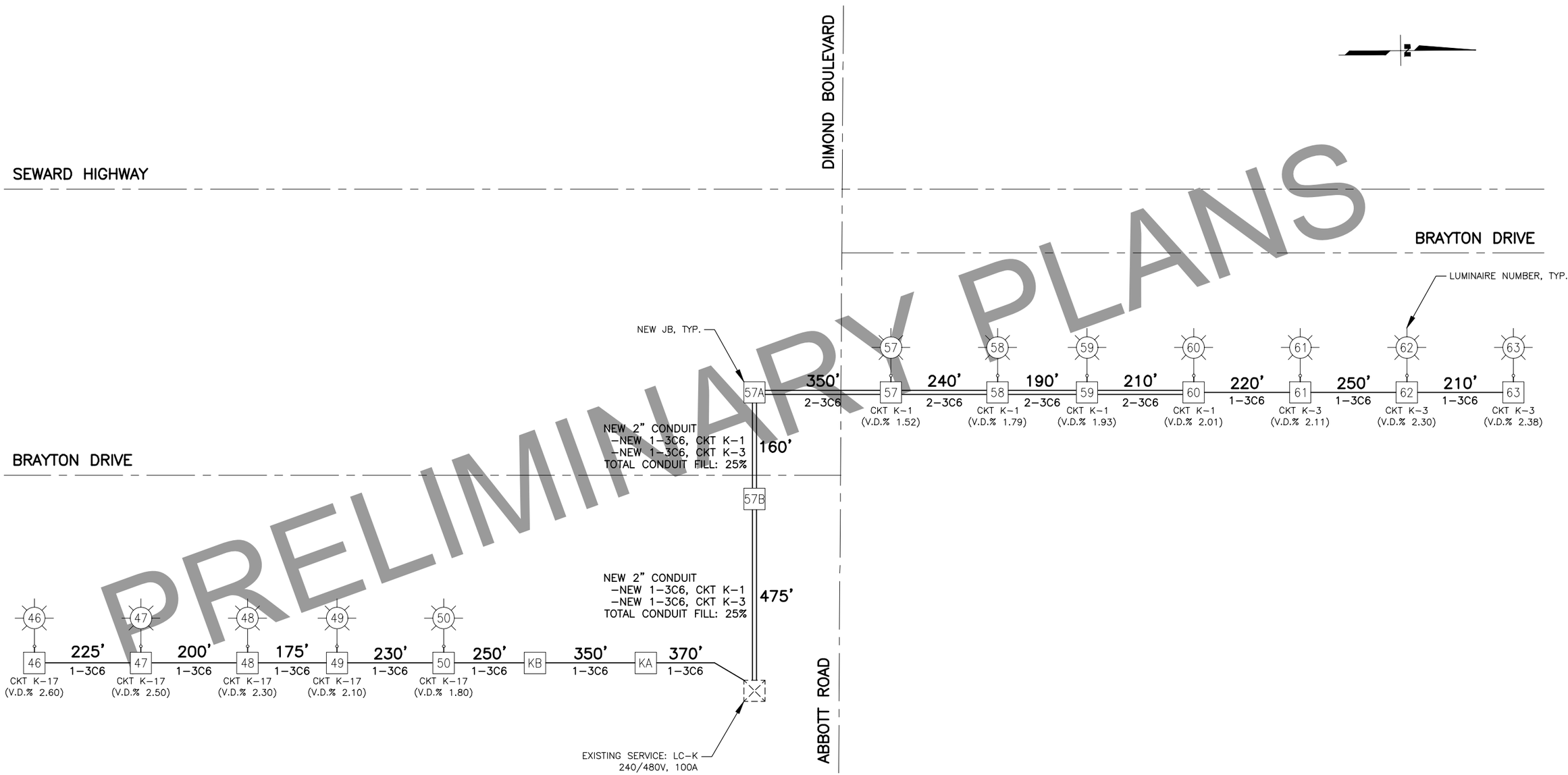
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL14	HL21



NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-K
WIRING DIAGRAM

DATE/TIME | 4/11/2022 12:22 AM | LAYOUT | HL14 | DESIGNED | SK | CHECKED | JM | DRAFTED | RM
FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655226\D0876333\00012_HL15.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL15	HL21

SUMMARY OF EXISTING LOAD CENTER "K"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC & PVC

LOAD CENTER LOCATION DATA (STATION: "DI–2" 4219+36.8, OFFSET : 58.5' RT)

LOAD CENTER:	DIMOND BLVD AND BRAYTON DR, SE
POWER SOURCE:	EXISTING 25 kVA CEA PAD–MOUNT SERVICE TRANSFORMER (STATION: "DI–2" 4219+22.8, OFFSET : 83.2' RT, APPROX.) (NOTE 2)
PHOTOELECTRIC CONTROL:	EXISTING AT LOAD CENTER
SERVICE VOLTAGE:	1–PHASE, 3–WIRE, 240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	EXISTING METER 144 826 226
PANEL K MAIN SERVICE DISCONNECT	480V, 2–POLE, 100A
CONTACTOR A:	YES, 4 POLE, 30A
AIC RATING, PANEL K:	10 kAIC @ 480V

PANEL K – 240/480 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	20/1	***LUMINAIRES 57 TO 60****	0.9	0.9		0.0	MAIN SERVICE DISCONNECT	100/2	2
3	20/1	***LUMINAIRES 61 TO 63****	0.6		0.6	0.0			4
5	20/2	LUMINAIRES* (UNKNOWN)	0.2	0.3		0.1	PE CONTROL	15/1	6
7			0.2		1.1	0.9	EAST RAMP LUMINAIRES*	20/2	8
9	20/2	HIGHTOWER #2* (REMOVED)	0.0	0.9		0.9			10
11			0.0		0.0	0.0	SPARE	20/2	12
13	20/2	LUMINAIRES* (NB ON RAMP)	0.9	0.9		0.0			14
15			0.9		0.9	0.0	SPARE	20/2	16
17	20/1	***LUMINAIRES 46 TO 50****	1.1	1.1		0.0			18
* CIRCUITED THROUGH CONTACTOR A			4.0	2.6	TOTAL kVA				6.7
					AMPS AT 480V				13.9

NOTES:
1. THE LOADS LISTED ON THIS LOAD CENTER SUMMARY REFLECT THE VALUES AS MEASURED 4/08/2020. (3 NEW POLES ARE ADDED AND HIGHTOWER #2 ARE REMOVED IN PHASE II DESIGN).
2. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.
3. CONTRACTOR TO FIELD CHECK CIRCUIT LOADS FOR REMOVED LOADS.

VOLTAGE DROP

240V IN A 1–PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
K–1	E60 TO E59	6	210	216	0.9	0.08	2.01
	E59 TO E58	6	190	431	1.9	0.14	1.93
	E58 TO E57	6	240	647	2.8	0.27	1.79
	E57 TO LC–K	6	1005	862	3.7	1.52	1.52
K–3	E63 TO E62	6	210	216	0.9	0.08	2.38
	E62 TO E61	6	250	431	1.9	0.19	2.30
	E61 TO LC–K	6	1865	647	2.8	2.11	2.11
K–17	E46 TO E47	6	225	216	0.9	0.1	2.6
	E47 TO E48	6	200	431	1.9	0.2	2.5
	E48 TO E49	6	175	647	2.8	0.2	2.3
	E49 TO E50	6	230	862	3.7	0.3	2.1
	E50 TO LC–K	6	943	1078	4.7	1.8	1.8

SHORT CIRCUIT CALCULATION – LC "K"

480V IN A 1–PH, 3W CONFIGURATION WITH A POWER–FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	240/480V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET–THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	1/0 Aluminum Conductors
SERVICE CONDUIT	2" RMC
LINE–LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "K"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	480V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

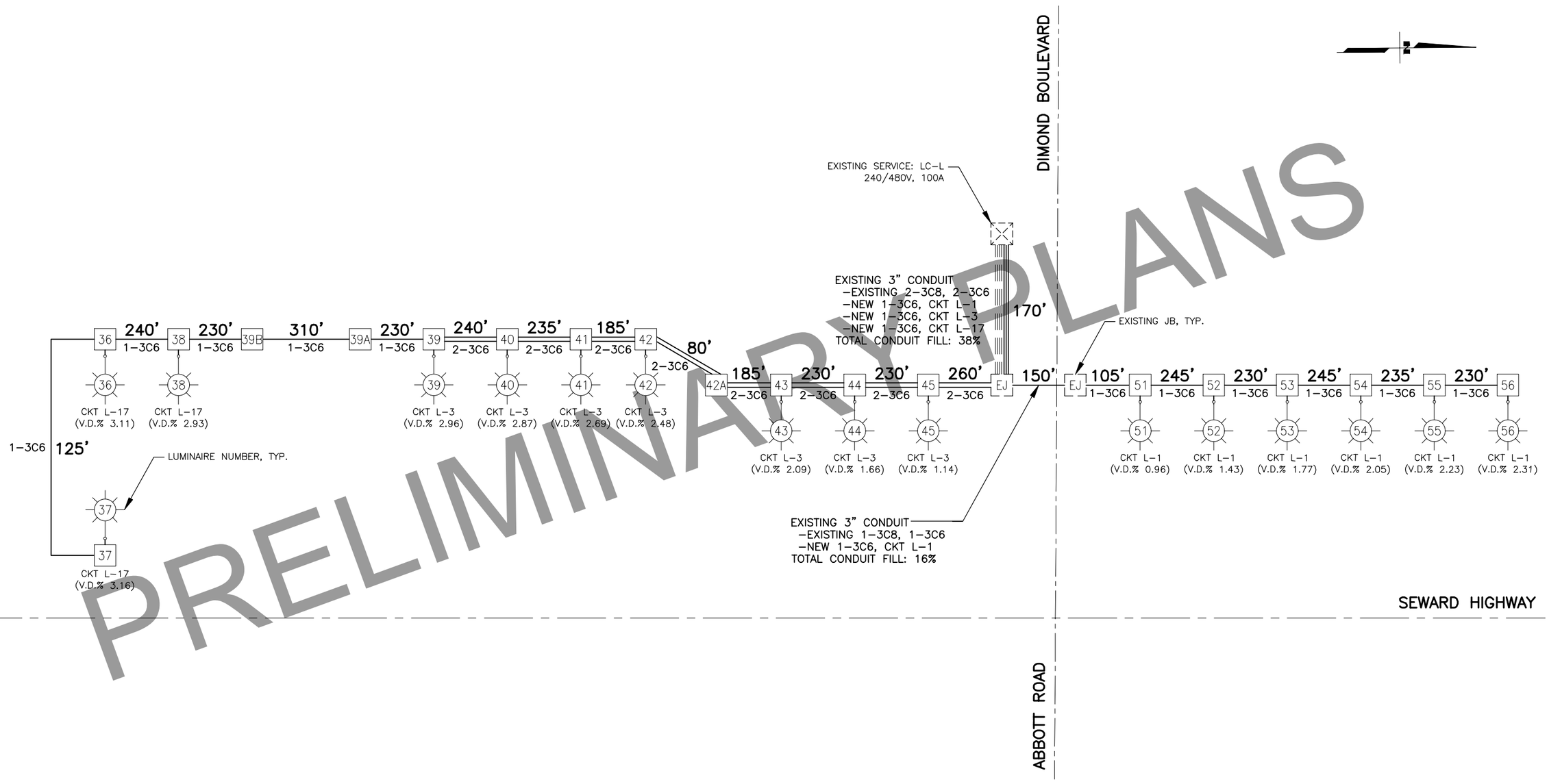
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC–K SCHEDULE SHEET

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL16	HL21



PRELIMINARY PLANS

NOTE:

1. THE DISTANCES SHOWN ARE ESTIMATED FOR VOLTAGE DROP CALCULATIONS ONLY.

STATE OF ALASKA
CERTIFICATION APRIL 2022
49TH
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LOAD CENTER LC-L WIRING DIAGRAM

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655526\D0876333\00012_HL17.DWG | DATE/TIME | 4/11/2022 12:22 AM | LAYOUT | HL16 | DESIGNED | SK | CHECKED | JM | DRAFTED | RM

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL17	HL21

SUMMARY OF EXISTING LOAD CENTER "L"

LOAD CENTER TYPE:	TYPE 1A
MAINTENANCE RESPONSIBILITY:	STATE OF ALASKA (SOA)
SERVING UTILITY:	CHUGACH ELECTRIC ASSOCIATION (CEA)
SERVICE CONDUIT TYPE:	RMC & PVC

LOAD CENTER LOCATION DATA (STATION: "HD–3" 6312+99.4, OFFSET : 92.7' LT, APPROX.)

LOAD CENTER:	E DIMOND BLVD AND HOMER DR, SW
POWER SOURCE:	EXISTING 50 kVA CEA PAD–MOUNT SERVICE TRANSFORMER (61.144514°, –149.858690°) (NOTE 3)
PHOTOELECTRIC CONTROL:	EXISTING AT LOAD CENTER
SERVICE VOLTAGE:	1–PHASE, 3–WIRE, 240/480 VOLTS AC WITH GROUNDED NEUTRAL
PROVIDE METER SOCKET:	EXISTING METER 144 826 201
PANEL L MAIN SERVICE DISCONNECT	480V, 2–POLE, 100A
CONTACTOR A:	EXISTING 8–POLE
AIC RATING, PANEL L:	10 kAIC @ 480V

PANEL L – 240/480 VAC, 100A BUS

POLE	AMP TRIP	DESCRIPTION	CKT kVA	AΘ	BΘ	CKT kVA	DESCRIPTION	AMP TRIP	POLE
1	20/1	*LUMINAIRE 51 TO 56**	1.3	1.3		0.0	MAIN SERVICE DISCONNECT	100/2	2
3	20/1	*LUMINAIRE 39 TO 45**	1.5		1.5	0.0			4
5	25/2	HIGH TOWER HT03* (REMOVED)	0.0	0.1		0.1	PE CONTROL	15/1	6
7			0.0		0.0	0.0	HIGH TOWER HT04* (REMOVED)	20/2	8
9	20/2	HIGH TOWER HT01* (REMOVED)	0.0	0.0		0.0			10
11			0.0		0.0	0.0	SPARE	20/2	12
13	20/2	HIGH TOWER HT05 (NOTE 2) (REMOVED)	0.0	0.0		0.0			14
15			0.0		0.0	0.0	SPARE	20/2	16
17	20/1	*LUMINAIRE 36 TO 38**	0.6	0.6		0.0			18
* CIRCUITED THROUGH CONTACTOR A			2.0	1.5		PANEL L TOTAL kVA			3.5
						PANEL L AMPS AT 480V			7.4

NOTES:
1. THE LOADS LISTED ON THIS LOAD CENTER SUMMARY REFLECT THE VALUES AS MEASURED 3/19/2020. (NEW CKT 1, 3, 17 ARE ADDED, AND HIGHTOWERS ARE REMOVED IN PHASE II).
2. THE CONDUCTORS FOR CKT 13/15 (HIGHTOWER HT05) HAVE BEEN DISCONNECTED FROM THE 20A BREAKER, AND THE BREAKER IS IN THE "OFF" POSITION.
3. CEA DOES NOT PROVIDE SERVICE LATERAL INFORMATION OR TRANSFORMER IMPEDANCE OR X/R RATIO. CEA STATES THAT THE MINIMUM IMPEDANCE OF THE TRANSFORMER IS 1.2%.

VOLTAGE DROPS

240V IN A 1–PH, 3W CONFIGURATION WITH A POWER FACTOR OF 0.90, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEQ. DROP (%VD)	CUMULATIVE DROP (%VD)
L–1	E56 TO E55	6	230	216	0.94	0.09	2.31
	E55 TO E54	6	235	431	1.87	0.18	2.23
	E54 TO E53	6	245	647	2.81	0.28	2.05
	E53 TO E52	6	230	862	3.75	0.35	1.77
	E52 TO E51	6	245	1078	4.69	0.46	1.43
	E51 TO LC–L	6	425	1293	5.62	0.96	0.96
L–3	E39 TO E40	6	240	216	0.94	0.09	2.96
	E40 TO E41	6	235	431	1.87	0.18	2.87
	E41 TO E42	6	185	647	2.81	0.21	2.69
	E42 TO E43	6	260	862	3.75	0.39	2.48
	E43 TO E44	6	230	1078	4.69	0.43	2.09
	E44 TO E45	6	230	1293	5.62	0.52	1.66
	E45 TO LC–L	6	430	1509	6.56	1.14	1.14
L–17	E37 TO E36	6	125	216	0.94	0.05	3.16
	E36 TO E38	6	240	431	1.87	0.18	3.11
	E38 TO LC–L	6	2585	647	2.81	2.93	2.93

SHORT CIRCUIT CALCULATION – LC "L"

480V IN A 1–PH, 3W CONFIGURATION WITH A POWER–FACTOR OF 0.90, 1 ALUMINUM CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75 DEG C

TRANSFORMER RATING	25kVA
VOLTAGE	240/480V
TRANSFORMER IMPEDANCE	1.20%
TRANSFORMER LET–THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	4819A
LENGTH TO FAULT	60'
SERVICE CONDUCTOR SIZE	1/0 Aluminum Conductors
SERVICE CONDUIT	2" RMC
LINE–LINE FAULT	4622A

ARC FLASH AND SHOCK HAZARD RESULTS – LC "L"

ARC FLASH BOUNDARY	
INCIDENT ENERGY IN CAL/CM2	
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	
INSULATING GLOVES CLASS	00
SHOCK HAZARD (WHEN COVER REMOVED)	480V
LIMITED APPROACH BOUNDARY	42 INCHES
RESTRICTED APPROACH BOUNDARY	12 INCHES
CALCULATED DATE	

STATE OF ALASKA
49TH
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REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

LOAD CENTER LC–L
SCHEDULE SHEET

RM | DRAFTED | JM | CHECKED | SK | DESIGNED | HL17 | LAYOUT | 4/11/2022 12:22 AM | DATE/TIME
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL18	HL21

LUMINAIRE STANDARDS (DOT&PF)

MANUFACTURER	GE, COOPER OR APPROVED EQUAL
MODEL	GE ERL2, COOPER VERDEON OR APPROVED EQUAL
WATTS	150 OR 200
LIGHT SOURCE	LED
VOLTAGE	120-277 UNIVERSAL
PE CONTROL	ANSI C136.41 7 PIN
PE SENSOR	YES
MOUNTING	HORIZONTAL
HOUSING ENTRY TYPE	TOOLLESS
FIXTURE COLOR	GRAY
IES DISTRIBUTION TYPE	MEDIUM, TYPE III
POWER FACTOR	> 0.9
UL LISTED	YES
DRIVE CURRENT	-
CCT	3000K
CRI	MINIMUM 70
MINIMUM INITIAL LUMENS	18,000 OR 22,000

LUMINAIRE STANDARDS (MOA)

MANUFACTURER	GE, COOPER OR APPROVED EQUAL
MODEL	GE ERL2, COOPER VERDEON OR APPROVED EQUAL
WATTAGE	150
LIGHT SOURCE	LED
VOLTAGE	110-277 UNIVERSAL
PE CONTROL	ANSI C136.41 7 PIN
PE SENSOR	YES
MOUNTING	HORIZONTAL
HOUSING ENTRY TYPE	TOOLLESS
FIXTURE COLOR	GRAY
IES DISTRIBUTION TYPE	MEDIUM, TYPE III
POWER FACTOR	> 0.9
UL LISTED	YES
DRIVE CURRENT	-
CCT	3000K
CRI	MINIMUM 70
MINIMUM INITIAL LUMENS	18,000

ROADWAY PERFORMANCE CRITERIA

ROADWAY CHARACTERISTICS	
ROADWAY (RAMP)	FREEWAY CLASS A RAMPS
LANE WIDTH	12
MEDIAN WIDTH	-
NUMBER OF LANES	1-2
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-2014
FUNCTIONAL CLASSIFICATION	INTERSTATE RAMP
PEDESTRIAN AREA CLASSIFICATION	N/A
LUMINAIRE CHARACTERISTICS	
IES FILE(S) FOR ROADWAY LIGHTING	VERD-M-A03-E-U-T3-7030-AP .IES ERL2_23C330____.IES
LAMP DESCRIPTION	COOPER VERDEON M, GE ERL2
LIGHT LOSS FACTOR	0.85
IES DISTRIBUTION TYPE	MEDIUM, TYPE III

ROADWAY PERFORMANCE (RAMPS AT O'MALLEY RD)

O'MALLEY OM-1 OM-1E	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.6:1
MAX. UNIFORMITY (MAX/MIN)	6.6:1
O'MALLEY OM-2 OM-2E	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	6.0:1
O'MALLEY OM-3 OM-3W	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.0:1
MAX. UNIFORMITY (MAX/MIN)	6.4:1
O'MALLEY OM-4 OM-4W	
AVERAGE ILLUMINANCE	0.8fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.7:1
MAX. UNIFORMITY (MAX/MIN)	6.9:1

ROADWAY PERFORMANCE (RAMPS AT SCOOTER AVE)

SCOOTER SA2	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	6.0:1
SCOOTER SA3	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	6.0:1
SCOOTER SA4	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	7.3:1

ROADWAY PERFORMANCE (RAMPS AT DIMOND BLVD)

DIMOND DI-1	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	6.6:1
DIMOND DI-2	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	6.8:1
DIMOND DI-4	
AVERAGE ILLUMINANCE	0.9fc
MINIMUM ILLUMINANCE	0.3fc
AVERAGE UNIFORMITY (AVG/MIN)	3.5:1
MAX. UNIFORMITY (MAX/MIN)	6.8:1

INTERSECTION PERFORMANCE CRITERIA (O'MALLEY RD)

INTERSECTION CHARACTERISTICS	
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-2014
FUNCTIONAL CLASSIFICATION	MAJOR/MAJOR
PEDESTRIAN AREA CLASSIFICATION	LOW
LIGHTING ENVIRONMENT	CONTINUOUS
LUMINAIRE CHARACTERISTICS	
IES FILE(S) FOR ROADWAY LIGHTING	VERD-G-CA2-130-730-U-T3.IES ERL2_19C330____.IES
LAMP DESCRIPTION	COOPER VERDEON G GE ERL2
LIGHT LOSS FACTOR	0.85
IES DISTRIBUTION TYPE	MEDIUM, TYPE III

INTERSECTION PERFORMANCE CRITERIA (SCOOTER AVE)

INTERSECTION CHARACTERISTICS	
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-2018
FUNCTIONAL CLASSIFICATION	MAJOR/COLLECTOR
PEDESTRIAN AREA CLASSIFICATION	LOW
LIGHTING ENVIRONMENT	CONTINUOUS
LUMINAIRE CHARACTERISTICS	
IES FILE(S) FOR ROADWAY LIGHTING	VERD-G-CA2-130-730-U-T3.IES ERL2_19C330____.IES
LAMP DESCRIPTION	COOPER VERDEON G GE ERL2
LIGHT LOSS FACTOR	0.85
IES DISTRIBUTION TYPE	MEDIUM, TYPE III

INTERSECTION PERFORMANCE (O'MALLEY RD)

O'MALLEY DDI EAST	
AVERAGE ILLUMINANCE	1.8fc
AVERAGE UNIFORMITY (AVG/MIN)	3.0:1
O'MALLEY DDI WEST	
AVERAGE ILLUMINANCE	1.7fc
AVERAGE UNIFORMITY (AVG/MIN)	3.0:1

INTERSECTION PERFORMANCE (SCOOTER AVE)

SCOOTER ROUNDABOUT EAST	
AVERAGE ILLUMINANCE	1.5fc
AVERAGE UNIFORMITY (AVG/MIN)	3.0:1
SCOOTER ROUNDABOUT WEST	
AVERAGE ILLUMINANCE	1.5fc
AVERAGE UNIFORMITY (AVG/MIN)	3.2:1

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ILLUMINATION SUMMARY

DATE/TIME 4/11/2022 9:06 AM | LAYOUT HL18 | DESIGNED AM | CHECKED KK | DRAFTED ZH
FILE C:\DOWL_PW\D0391306\SC-CT-SG-HE-62153.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL19	HL21

ELECTROLIER SCHEDULE

POLE NO.	STATION ALIGNMENT	OFFSET	LAMP WATTS	LAMP TILT	MOUNTING HEIGHT	LIGHTING DISTRIBUTION	ARM LENGTH	SHAFT LENGTH	FOUNDATION NOTES*	REMARKS
1	"OM-3" 2300+87.6	28.0' LT	200 W	0	45'	M-C-3	10'	46.5'	NOTE 1	
2	"OM-3" 2303+15.1	38.0' LT	200 W	0	45'	M-C-3	6'	47.0'	NOTE 1	
3	"OM-3" 2305+35.6	38.0' LT	200 W	0	45'	M-C-3	10'	47.5'	NOTE 1	
4	"OM-2" 2200+37.4	56.8' RT	200 W	0	44'	M-C-3	20'	49.5'	NOTE 1	
5	"OM-2" 2202+47.8	33.1' RT	200 W	0	45'	M-C-3	6'	47.5'	NOTE 1	
6	"OM-2" 2204+77.3	37.0' RT	200 W	0	45'	M-C-3	15'	45.0'	NOTE 1	
7	"OM-2" 2206+92.2	28.5' RT	200 W	0	45'	M-C-3	6'	47.0'	NOTE 1	
8	"OM-4" 2403+69.7	35.9' LT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 1	
9	"OM-4" 2405+69.7	32.5' LT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 1	
10	"OM-4" 2407+99.6	32.5' LT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 1	
11	"OM-4" 2410+01.9	32.5' LT	200 W	0	45'	M-C-3	20'	47.0'	NOTE 1	
12	"OM-4" 2412+29.7	32.5' LT	200 W	0	45'	M-C-3	15'	47.0'	NOTE 1	
13	"ML" 321+83.6	81.5' LT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 1	
14	"OM-1" 2104+42.4	31.0' RT	200 W	0	45'	M-C-3	6'	44.5'	NOTE 2	
15	"OM-1" 2106+84.6	31.0' RT	200 W	0	45'	M-C-3	6'	44.5'	NOTE 2	
16	"OM-1" 2109+16.3	35.9' RT	200 W	0	45'	M-C-3	10'	44.5'	NOTE 2	
17	"OM-1" 2111+47.8	54.8' RT	200 W	0	45'	M-C-3	22'	45.5'	NOTE 2	
18	"OM-1" 2113+53.6	20.7' RT	200 W	0	45'	M-C-3	10'	46.5'	NOTE 2	
19	"OM-1" 2115+84.7	24.1' RT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 2	
20	"ML" 337+38.6	88.1' LT	200 W	0	45'	M-C-3	10'	48.0'	NOTE 2	
21	"ML" 339+73.0	92.8' LT	200 W	0	45'	M-C-3	10'	47.5'	NOTE 2	
22	"SA-3" 3301+49.1	25.3' LT	200 W	0	45'	M-C-3	10'	47.5'	NOTE 2	
23	"SA-3" 3303+88.3	25.0' LT	200 W	0	45'	M-C-3	10'	47.5'	NOTE 2	
24	"SA-3" 3306+21.3	23.6' LT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 2	
25	"SA-3" 3308+35.1	14.5' LT	200 W	0	45'	M-C-3	10'	47.5'	NOTE 2	
26	"ML" 340+64.7	91.2' RT	200 W	0	45'	M-C-3	10'	43.5'	NOTE 2	
27	"SA-2" 3201+72.3	28.8' RT	200 W	0	45'	M-C-3	10'	43.0'	NOTE 2	
28	"SA-2" 3203+96.8	20.6' RT	200 W	0	45'	M-C-3	10'	43.5'	NOTE 2	
29	"SA-2" 3205+94.2	50.7' RT	200 W	0	45'	M-C-3	20'	44.5'	NOTE 2	
30	"SA-2" 3207+94.4	40.1' RT	200 W	0	45'	M-C-3	20'	45.0'	NOTE 2	
31	"SA-2" 3210+05.0	31.4' RT	200 W	0	45'	M-C-3	6'	45.0'	NOTE 2	
32	"SA-2" 3212+18.1	31.0' RT	200 W	0	45'	M-C-3	6'	45.0'	NOTE 2	
33	"SA-2" 3214+26.7	38.0' RT	200 W	0	45'	M-C-3	6'	43.5'	NOTE 2	
34	"SA-2" 3216+43.0	29.5' RT	200 W	0	45'	M-C-3	6'	44.5'	NOTE 2	
35	"SA-2" 3218+05.6	33.4' RT	200 W	0	45'	M-C-3	6'	44.5'	NOTE 2	
36	"SA-4" 3401+66.6	74.0' LT	200 W	0	45'	M-C-3	10'	44.5'		
37	"SA-4" 3401+73.5	29.2' RT	200 W	0	45'	M-C-3	10'	47.5'		
38	"SA-4" 3403+72.6	40.7' LT	200 W	0	45'	M-C-3	15'	44.5'		
39	"SA-4" 3411+18.0	33.0' LT	200 W	0	45'	M-C-3	15'	44.5'		
40	"SA-4" 3413+46.3	33.0' LT	200 W	0	45'	M-C-3	15'	44.5'	NOTE 2	
41	"SA-4" 3415+67.9	41.6' LT	200 W	0	45'	M-C-3	15'	44.5'	NOTE 2	
42	"SA-4" 3417+42.4	53.8' LT	200 W	0	45'	M-C-3	20'	44.0'	NOTE 2	
43	"SA-4" 3419+63.7	14.4' LT	200 W	0	45'	M-C-3	10'	47.0'	NOTE 2	
44	"SA-4" 3421+81.7	17.5' LT	200 W	0	45'	M-C-3	10'	48.5'	NOTE 2	
45	"ML" 383+80.9	67.9' LT	200 W	0	45'	M-C-3	10'	47.5'	NOTE 2	
46	"DI-2" 4201+45.4	7.3' RT	200 W	0	40'	M-C-3	10'	45.0'		
47	"DI-2" 4203+58.8	13.5' RT	200 W	0	45'	M-C-3	15'	49.5'		
48	"DI-2" 4205+48.2	43.0' RT	200 W	0	45'	M-C-3	15'	45.5'	NOTE 2	
49	"DI-2" 4207+63.2	38.8' RT	200 W	0	45'	M-C-3	10'	46.5'	NOTE 2	
50	"DI-2" 4209+94.0	41.8' RT	200 W	0	45'	M-C-3	10'	49.5'	NOTE 2	
51	"DI-4" 4401+71.5	44.2' LT	200 W	0	45'	M-C-3	10'	45.0'	NOTE 2	
52	"DI-4" 4404+01.1	36.8' LT	200 W	0	45'	M-C-3	6'	45.5'	NOTE 2	
53	"DI-4" 4406+21.9	26.0' LT	200 W	0	45'	M-C-3	6'	45.5'	NOTE 2	
54	"DI-4" 4408+46.7	26.0' LT	200 W	0	45'	M-C-3	6'	45.5'	NOTE 2	
55	"DI-4" 4410+64.5	35.6' LT	200 W	0	45'	M-C-3	15'	45.5'	NOTE 2	

ELECTROLIER SCHEDULE

POLE NO.	STATION ALIGNMENT	OFFSET	LAMP WATTS	LAMP TILT	MOUNTING HEIGHT	LIGHTING DISTRIBUTION	ARM LENGTH	SHAFT LENGTH	FOUNDATION NOTES*	REMARKS
56	"DI-4" 4412+89.3	56.7' LT	200 W	0	45'	M-C-3	22'	48.5'	20'(NOTE 2)	
57	"DI-1" 4104+16.4	26.0' RT	200 W	0	45'	M-C-3	10'	45.5'	20'(NOTE 2)	
58	"DI-1" 4106+43.4	33.9' RT	200 W	0	45'	M-C-3	6'	45.5'	20'(NOTE 2)	
59	"DI-1" 4108+22.8	53.9' RT	200 W	0	45'	M-C-3	15'	46.5'	20'(NOTE 2)	
60	"DI-1" 4110+09.7	15.5' RT	200 W	0	45'	M-C-3	10'	47.0'	20'(NOTE 2)	
61	"DI-1" 4112+14.0	15.5' RT	200 W	0	45'	M-C-3	10'	47.0'	20'(NOTE 2)	
62	"DI-1" 4114+31.9	14.5' RT	200 W	0	45'	M-C-3	10'	46.5'	20'(NOTE 2)	
63	"DI-1" 4116+41.2	15.5' RT	200 W	0	45'	M-C-3	10'	46.0'	20'(NOTE 2)	
102	"X-OM-EB" 2604+90.7	42.0' RT	150 W	0	45'	M-C-3	10'	43.5'	-	
103	"X-OM-EB" 2604+75.8	127.2' LT	150 W	0	45'	M-C-3	10'	43.0'	NOTE 1	
104	"X-OM-EB" 2606+10.3	85.1' RT	150 W	0	45'	M-C-3	12'	44.5'	NOTE 1	
105	"X-OM-EB" 2606+89.7	134.5' LT	150 W	0	45'	M-C-3	10'	42.0'	NOTE 1	
106	"X-OM-EB" 2608+23.2	139.6' LT	150 W	0	45'	M-C-3	10'	47.5'	NOTE 1	
107	"X-OM-EB" 2607+51.1	162.0' RT	150 W	0	45'	M-C-3	10'	45.0'	NOTE 1	
108	"X-OM-EB" 2609+00.9	38.5' RT	150 W	0	45'	M-C-3	15'	45.0'	NOTE 1	DUAL LUMINAIRE ELECTROLIER
109			150 W	0		M-C-3	15'			
110	"X-OM-EB" 2610+62.2	34.R' RT	150 W	0	45'	M-C-3	15'	44.5'	NOTE 1	DUAL LUMINAIRE ELECTROLIER
111			150 W	0		M-C-3	15'		NOTE 1	
112	"X-OM-EB" 2611+24.5	100.3' LT	150 W	0	45'	M-C-3	15'	45.5'	NOTE 1	
113	"X-OM-EB" 2612+72.5	105.6' LT	150 W	0	45'	M-C-3	10'	45.0'	NOTE 1	
114	"X-OM-EB" 2614+64.0	34.7' RT	150 W	0	45'	M-C-3	10'	45.0'	NOTE 1	
115	"X-OM-EB" 2615+04.5	86.4' LT	150 W	0	45'	M-C-3	10'	45.0'	NOTE 1	
201	"X-SA" 3009+12.0	39.8' RT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
202	"X-SA" 3010+55.5	49.1' LT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
203	"X-SA" 3011+08.1	55.0' RT	150 W	0	40'	M-C-3	6'	39.5'	NOTE 1	
204	"X-SA" 3011+75.5	72.0' LT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
205	"X-SA" 3012+36.8	92.7' RT	150 W	0	40'	M-C-3	6'	39.5'	NOTE 1	
206	"X-SA" 3013+43.8	63.3' LT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
207	"X-SA" 3013+40.6	60.0' RT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
208	"X-SA" 3015+18.4	63.9' LT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
209	"X-SA" 3015+15.3	55.1' RT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
210	"X-SA" 3016+83.7	86.6' LT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
211	"X-SA" 3016+81.9	62.1' RT	150 W	0	40'	M-C-3	6'	40.0'	NOTE 1	
212	"X-SA" 3017+49.3	38.5' LT	150 W	0	40'	M-C-3	10'	39.5'	NOTE 1	
213	"X-SA" 3019+54.2	33.7' LT	150 W	0	40'	M-C-3	10'	39.0'	NOTE 1	
214	"X-SA" 3022+24.3	33.5' LT	150 W	0	40'	M-C-3	10'	39.0'	NOTE 1	

*ALL FOUNDATIONS SHALL BE PILE FOUNDATIONS, UNLESS NOTED OTHERWISE.

NOTES:

1. PILE FOUNDATION MAY BE SUBSTITUTED FOR STANDARD CONCRETE FOUNDATION L-30.11 AT THE CONSTRUCTOR'S DISCRECTION.
2. GALVANIZATION OF PILE REQUIRED.
3. MINIMUM PILE EMBEDMENT DEPTH PROVIDED FOR ELECTROLIER FOUNDATIONS REQUIRING ADDITIONAL EMBEDMENT DEPTH.

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ILLUMINATION SUMMARY

ZH | DRAFTED | KK | CHECKED | AM | DESIGNED | HL19 | LAYOUT | 4/11/2022 9:06 AM | DATE/TIME
FILE C:\DOWL_PW\D0391306\SC-GT-SG-HE-62153.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL20	HL21

JUNCTION BOX SCHEDULE

LIGHTING J-BOX	STATION ALIGNMENT	OFFSET	TYPE
DA	"X-OM-W" 2505+58.1	53.7' LT	2
EA	"OM-2E" 2251+28.1	44.4' RT	2
FA	"BD-2" 5232+91.3	31.5' RT	2
GA	"SA-3" 3316+17.1	181.6' LT	2
GB	"SA-3" 3315+85.3	62.3' LT	1A
GC	"SA-3" 3312+36.2	35.1' LT	1A
IA	"X-SA" 3017+18.5	65.4' RT	2
JA	"DI-2" 4219+58.1	534.7' LT	2
KA	"DI-2" 4215+98.6	39.4' RT	1A
KB	"DI-2" 4212+56.0	40.5' RT	1A
1	"OM-3" 2300+87.6	35.0' LT	2
1A	"BD-1" 5103+69.0	212.8 LT	2
2	"OM-3" 2303+15.1	42.5' LT	2
3	"OM-3" 2305+35.9	42.5' LT	2
4	"BD-1" 5105+51.9	19.2' RT	1A
5	"BD-1" 5107+56.0	23.5' RT	1A
6	"OM-2" 2204+77.4	44.0' RT	1A
7	"OM-2" 2206+98.0	28.8' RT	1A
8	"OM-4" 2403+62.6	38.2' LT	1A
9	"OM-4" 2405+69.7	39.5' LT	1A
10	"OM-4" 2407+99.4	38.0' LT	1A
11	"OM-4" 2410+01.9	39.5' LT	1A
12	"OM-4" 2412+29.8	38.2' LT	1A
13	"ML" 321+83.6	84.0' LT	1A
14	"OM-1" 2104+43.5	38.0' RT	1A
15	"OM-1" 2106+87.0	38.0' RT	1A
16	"BD-2" 5201+55.8	38.0' RT	1A
17	"BD-2" 5203+87.7	39.7' RT	1A
18	"OM-1" 2113+62.8	21.8' RT	1A
19	"OM-1" 2115+80.3	26.9' RT	1A
20	"ML" 337+38.6	95.1' LT	1A
21	"ML" 339+73.1	99.8' LT	1A
22	"ML 342+02.1	103.3' LT	1A
23	"SA-3" 3303+81.3	25.2' LT	1A
24	"SA-3" 3306+14.2	24.0' LT	1A
25	"SA-3" 3308+28.2	15.0' LT	1A
26	"ML" 340+71.7	91.2' RT	1A
27	"SA-2" 3201+65.3	29.2' RT	1A
28	"SA-2" 3203+89.8	20.9' RT	1A
29	"BD-2" 5233+17.0	29.6' RT	1A
30	"BD-2" 5235+17.4	29.6' RT	1A
31	"BD-2" 5237+29.5	29.6' RT	1A
32	"SA-2" 3212+25.1	29.6' RT	1A
33	"SA-2" 3214+34.1	38.6' RT	1A
34	"SA-2" 3216+50.0	30.8' RT	1A
35	"SA-2" 3218+16.1	33.8' RT	1A
36	"SA-4" 3401+66.9	81.0' LT	1A
37	"SA-4" 3401+66.5	28.8' RT	1A
38	"SA-4" 3403+73.5	47.7' LT	1A
39	"SA-4" 3411+18.0	40.0' LT	1A
39A	"SA-4" 3409+01.5	33.2' LT	1A
39B	"SA-4" 3405+95.2	36.6' LT	1A
40	"SA-4" 3413+46.3	40.0' LT	1A
41	"HD-3" 6302+29.2	40.0' LT	1A
42	"HD-3" 6304+04.1	40.0' LT	1A
42A	"HD-3" 6304+50.1	6.5' RT	1A
43	"SA-4" 3419+56.7	16.9' LT	1A

JUNCTION BOX SCHEDULE

LIGHTING J-BOX	STATION ALIGNMENT	OFFSET	TYPE
44	"SA-4" 3421+74.7	17.0' LT	1A
45	"SA-4" 3424+00.8	31.3' LT	1A
45A	"HD-3" 6312+62.8	31.0' RT	1A
46	"DI-2" 4200+39.7	13.2' RT	1A
47	"DI-2" 4202+53.2	11.8' RT	1A
48	"BD-3" 5312+97.7	32.0' RT	1A
49	"BD-3" 5315+13.5	35.0' RT	1A
50	"DI-2" 4208+78.3	41.3' RT	1A
51	"DI-4" 4401+64.6	45.0' LT	1A
51A	"DI-4" 4401+22.7	35.3' RT	1A
52	"DI-4" 4403+93.9	36.0' LT	1A
53	"DI-4" 4406+14.9	24.6' LT	1A
54	"DI-4" 4408+46.5	33.0' LT	1A
55	"HD-4" 6401+78.8	33.0' LT	1A
56	"HD-4" 6403+97.6	25.9' LT	1A
57	"DI-1" 4104+16.4	33.0' RT	1A
57A	"DI-1" 4100+58.3	34.3' RT	1A
57B	"DI-2" 4219+78.5	411.5' LT	1A
57C	"DI-2" 4219+61.6	154.4' LT	1A
58	"BD-4" 5401+53.5	33.0' RT	1A
59	"BD-4" 5403+32.4	33.0' RT	1A
60	"DI-1" 4110+16.7	15.3' RT	1A
61	"DI-1" 4112+21.0	15.3' RT	1A
62	"DI-1" 4114+38.9	14.6' RT	1A
63	"DI-1" 4116+34.2	15.8' RT	1A
102	"OM-3W" 2353+70.9	32.8' LT	2
103	"X-OM-WB" 2504+79.1	55.1' LT	2
104	"OM-3W" 2352+15.0	33.9' LT	2
105	"OM-4W" 2450+60.3	61.6' LT	1A
106	"OM-4" 2401+41.4	37.9' RT	1A
107	"OM-3" 2307+44.2	29.2' RT	1A
108	"X-OM-WB" 2508+93.9	39.3' LT	1A
111	"X-OM-WB" 2510+74.4	35.9' LT	1A
112	"OM-1" 2102+26.3	31.4' LT	1A
113	"OM-1E" 2152+69.2	27.4' RT	1A
113A	"OM-1E" 2154+17.0	25.8' RT	1A
114	"X-OM-EB" 2614+71.2	34.7' RT	1A
115	"X-OM-WB" 2515+01.6	48.5' LT	1A
201	"X-SA" 3009+18.8	41.3' RT	1A
201A	"X-SA" 3007+34.1	52.6' RT	1A
202	"X-SA" 3010+57.2	55.9' LT	1A
203	"X-SA" 3011+14.6	57.6' RT	1A
204	"X-SA" 3011+71.1	76.9' LT	1A
205	"X-SA" 3012+42.3	97.3' RT	1A
206	"X-SA" 3013+48.6	68.5' LT	1A
207	"X-SA" 3013+40.8	67.0' RT	1A
208	"X-SA" 3015+25.9	66.0' LT	1A
209	"X-SA" 3015+11.8	61.2' RT	1A
210	"X-SA" 3016+87.6	80.5' LT	1A
211	"X-SA" 3016+88.4	60.6' RT	1A
212	"X-SA" 3017+42.5	40.1' LT	1A
213	"X-SA" 3019+54.2	40.7' LT	1A
214	"X-SA" 3022+24.4	43.4' LT	1A

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ILLUMINATION SUMMARY

DATE/TIME 4/11/2022 9:06 AM | LAYOUT HL20 | DESIGNED AM | CHECKED KK | DRAFTED ZH
FILE C:\DOWL_PW\D0391306\SG-CT-SG-HE-62153.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HL21	HL21

SALVAGE ELECTROLIER SCHEDULE

POLE NO.	STATION ALIGNMENT	OFFSET	BASE TYPE	SHAFT LENGTH	MASTARM LENGTH	REMARKS
S1	"ML" 344+72.4	96.1' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S2	"ML" 346+89.7	98.1' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S3	"ML" 349+05.8	111.3' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S4	"ML" 351+24.5	130.1' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S5	"ML" 353+46.1	132.3' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S6	"ML" 354+84.3	162.3' RT	N/A	N/A	N/A	SALVAGED BY OTHERS
S7	"ML" 355+66.6	138.7' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S8	"ML" 357+45.7	194.3' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S9	"ML" 363+22.8	129.1' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S10	"ML" 365+38.8	107.6' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S11	"ML" 367+46.2	89.3' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S12	"ML" 394+22.2	63.4' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S13	"ML" 395+07.3	102.4' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S14	"ML" 396+56.3	85.2' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S15	"ML" 396+79.7	90.6' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S16	"ML" 398+59.2	80.0' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S17	"ML" 398+79.1	87.4' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S18	"ML" 400+78.2	80.2' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S19	"ML" 402+88.0	82.0' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S20	"X-OM-WB" 2504+71.0	32.9' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S21	"X-OM-EB" 2605+82.1	21.7' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S22	"OM-2" 2207+80.2	33.7' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S23	"OM-1E" 2153+47.9	32.0' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S24	"OM-2E" 2251+26.3	3.4' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S25	"X-OM-WB" 2513+73.3	38.4' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S26	"X-OM-EB" 2613+71.8	23.3' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S27	"X-OM-EB" 2615+46.3	32.1' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S28	"X-OM-WB" 2515+49.6	40.2' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S29	"X-SA" 3009+11.5	50.0' RT	N/A	N/A	N/A	SALVAGE TO MOA
S30	"X-SA" 3009+11.7	40.8' LT	N/A	N/A	N/A	SALVAGE TO MOA
S31	"X-SA" 3010+66.4	96.7' RT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S32	"X-SA" 3011+26.0	43.1' LT	N/A	N/A	N/A	SALVAGE TO DOT&PF
S33	"X-SA" 3012+70.5	131.0' LT	N/A	N/A	N/A	SALVAGE TO MOA
S34	"X-SA" 3017+55.8	41.9' RT	N/A	N/A	N/A	SALVAGE TO MOA
S35	"X-SA" 3019+60.3	48.2' RT	N/A	N/A	N/A	SALVAGE TO MOA
S36	"X-SA" 3021+33.0	0.3' RT	N/A	N/A	N/A	SALVAGE TO MOA
S37	"X-SA" 3023+15.9	22.9' LT	N/A	N/A	N/A	SALVAGE TO MOA
S38	"X-SA" 3016+01.2	19.2' RT	N/A	N/A	N/A	SALVAGE TO MOA

SALVAGE HIGHTOWER SCHEDULE

POLE NO.	STATION ALIGNMENT	OFFSET	BASE TYPE	SHAFT LENGTH	MASTARM LENGTH	REMARKS
HT S1	"OM-3" 2303+01.6	32.6' RT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF
HT S2	"ML" 308+39.5	70.6' LT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF
HT S3	"ML" 313+68.9	70.5' LT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF
HT S4	"ML" 322+87.5	87.4' LT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF
HT S5	"ML" 372+28.3	108.4' LT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF
HT S6	"ML" 381+87.9	74.8' LT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF
HT S7	"ML" 391+68.7	77.3' LT	N/A	N/A	N/A	COORDINATE SALVAGE OF SELECT ITEMS WITH DOT&PF MAINTENANCE STAFF

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ILLUMINATION SUMMARY

ZH | DRAFTED | KK | CHECKED | AM | DESIGNED | HL21 | LAYOUT | 4/11/2022 9:06 AM | DATE/TIME
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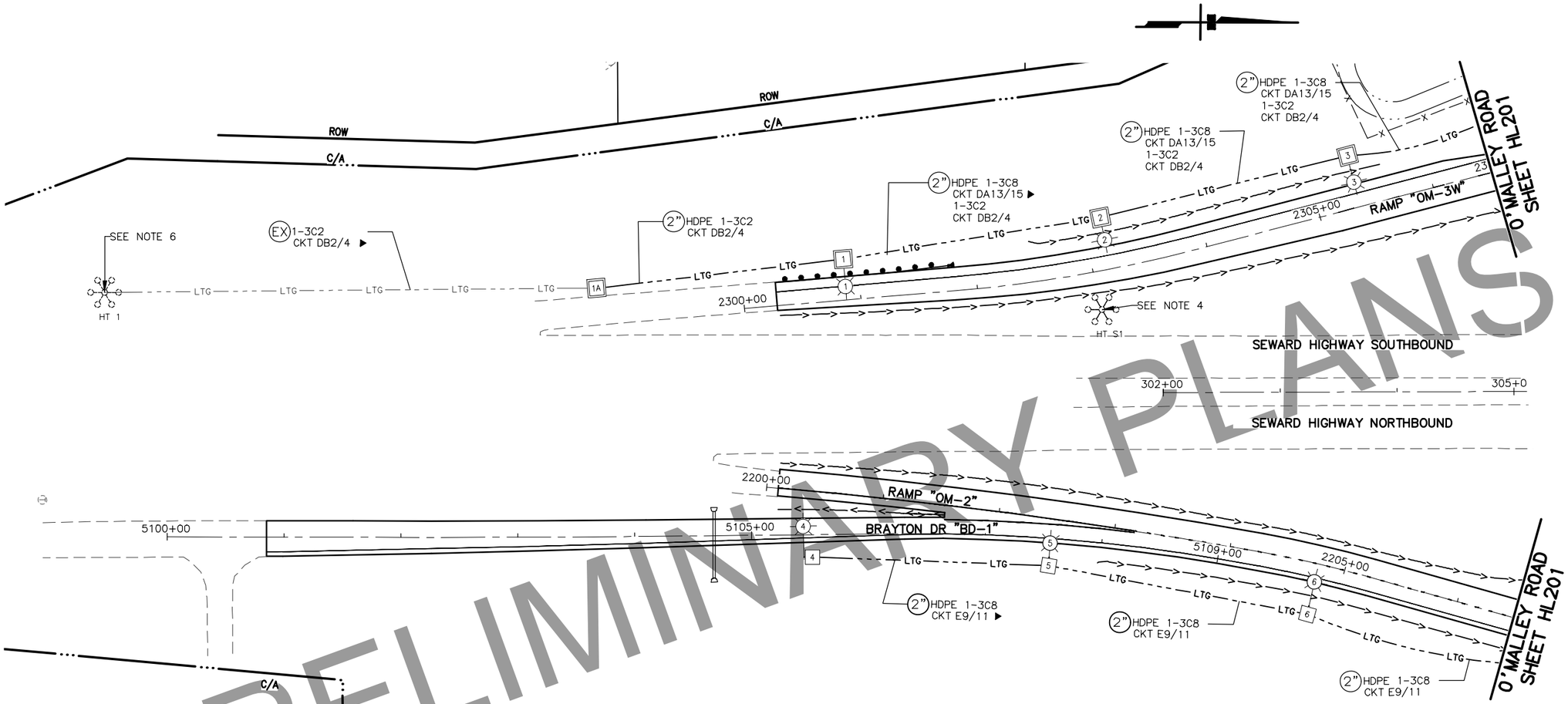


LIGHTING NOTES:

1. FOR ABBREVIATIONS AND NOTES, SEE SHEET H1.
2. TRENCH CONDUIT UNDER NEW ROAD; BORE CONDUIT UNDER EXISTING ROAD ONLY WHERE TRENCHING IS NOT POSSIBLE.
3. MAINTAIN EXISTING ELECTROLIER AND LUMINAIRES; MAINTAIN LIGHTING CIRCUIT.
4. DOT&PF ELECTROLIERS SHALL BE SALVAGED AND DELIVERED TO A LOCATION SPECIFIED BY THE PROJECT ENGINEER.
5. MUNICIPALITY OF ANCHORAGE (MOA) ELECTROLIERS SCHEDULED FOR SALVAGE SHALL BE DELIVERED TO MOA POLE YARD AT 3RD AVE. & ORCA ST. CONTACT MOA STREET LIGHT ADMINISTRATOR AT (907) 343-8242 FOR MORE INFORMATION.
6. EXISTING HIGH TOWER AND LUMINAIRES TO REMAIN INTACT; MAINTAIN LIGHTING CIRCUIT.
7. EXISTING UTILITY ELECTROLIER TO BE REMOVED BY OTHER (COORDINATE WITH THE APPROPRIATE UTILITY COMPANY).
8. REMOVE, PROTECT ON SITE, AND RE-INSTALL IN SAME LOCATION AFTER WALL WORK IS COMPLETE.

LOAD CENTER NOTES:

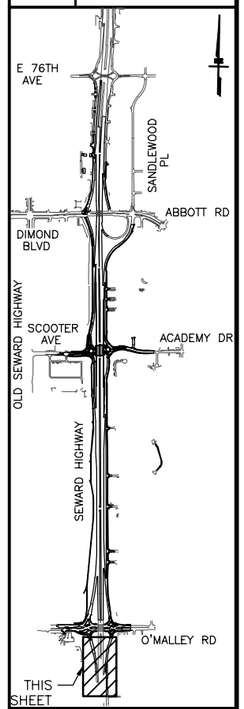
1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL101	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SEWARD HIGHWAY

ILLUMINATION

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DATE/TIME 4/8/2022 3:44 PM
LAYOUT HL101
DESIGNED AM
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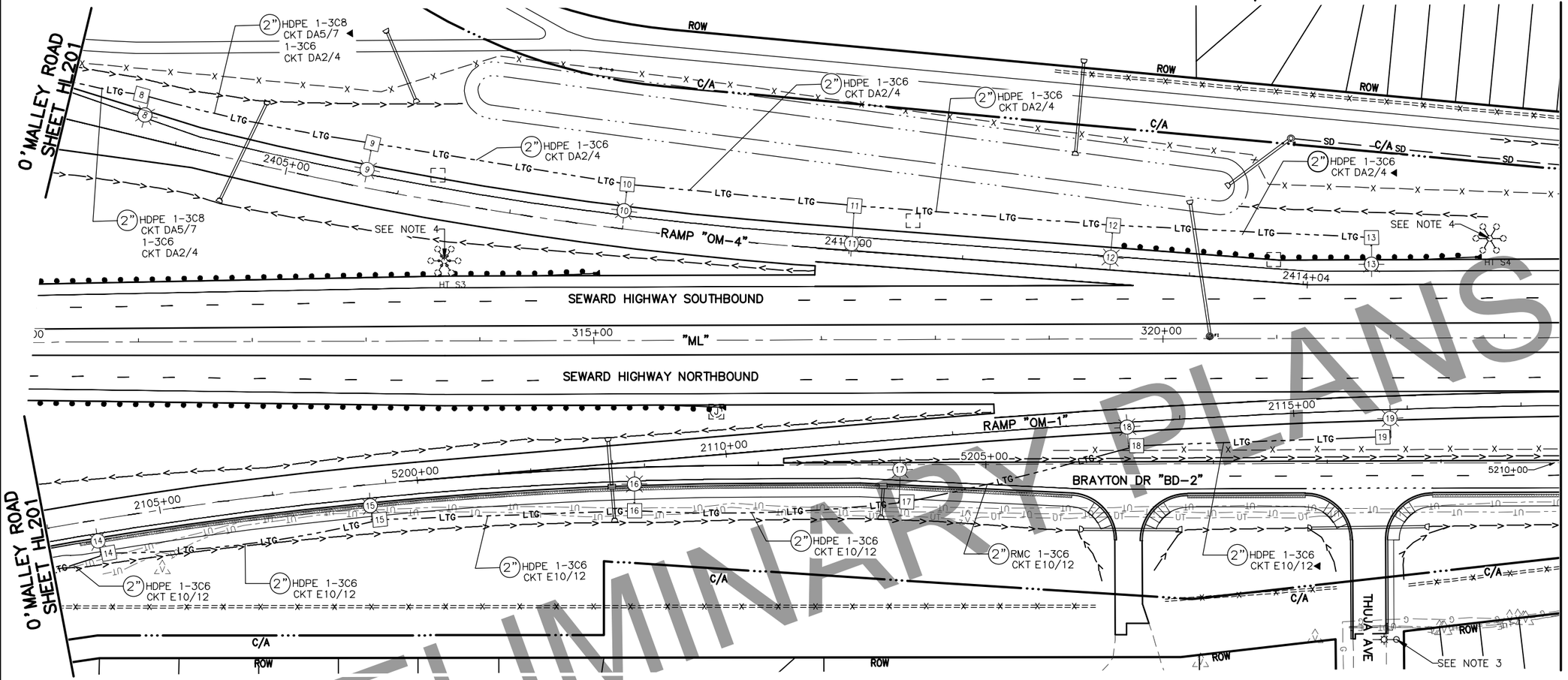
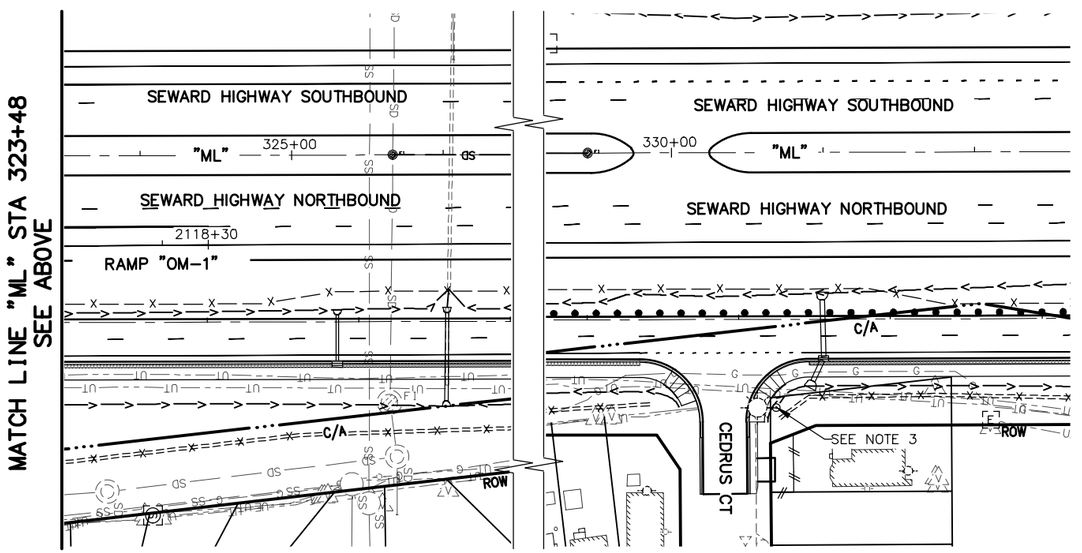
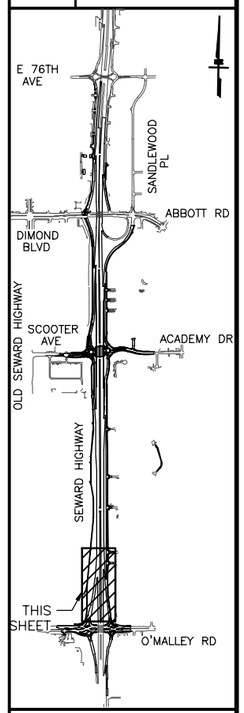
DRAFTED ZH







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LOAD CENTER NOTES:

1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL102	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SEWARD HIGHWAY

ILLUMINATION

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

DATE/TIME 4/8/2022 3:44 PM | LAYOUT HL102 | DESIGNED AM | CHECKED KK | DRAFTED ZH

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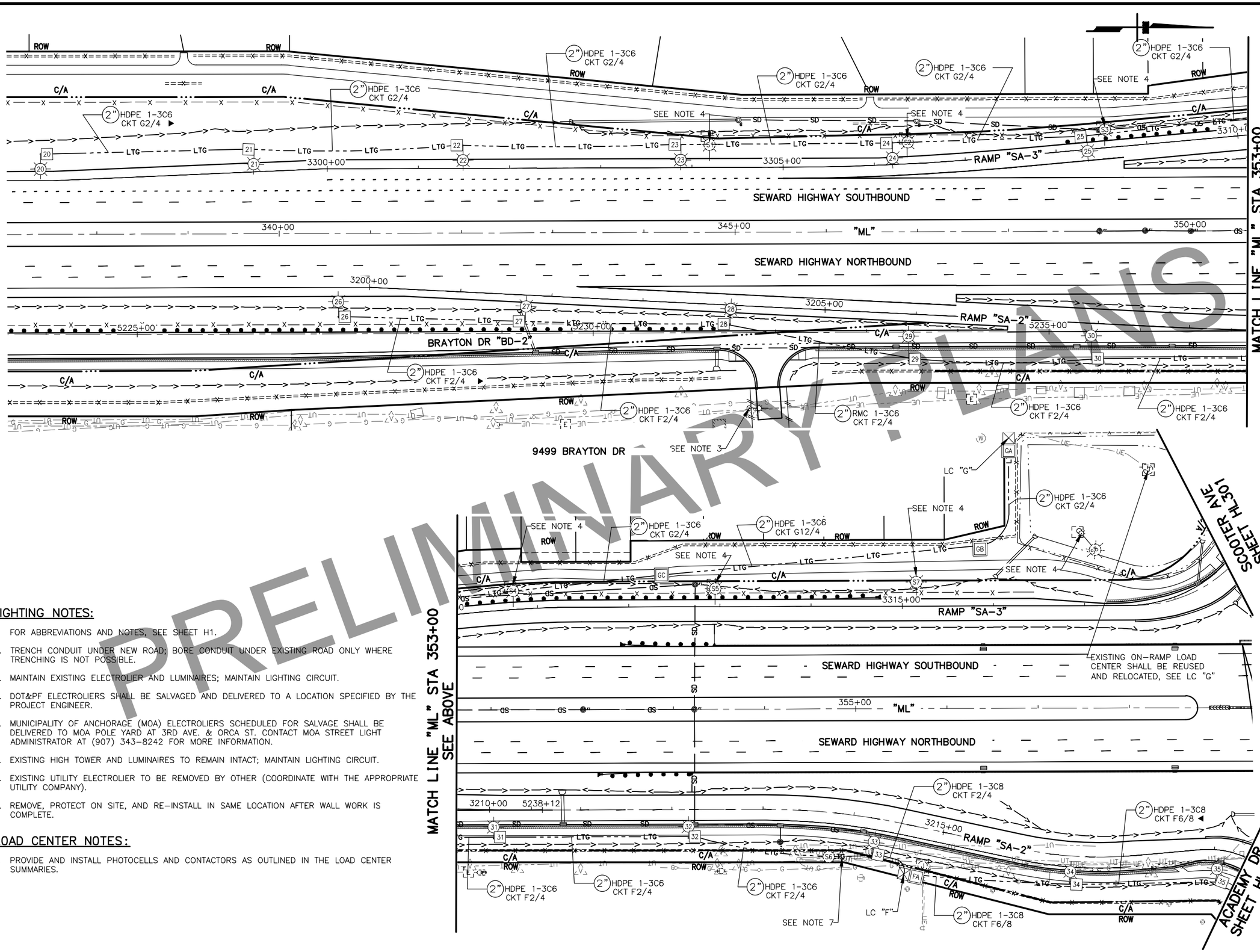

LIGHTING NOTES:

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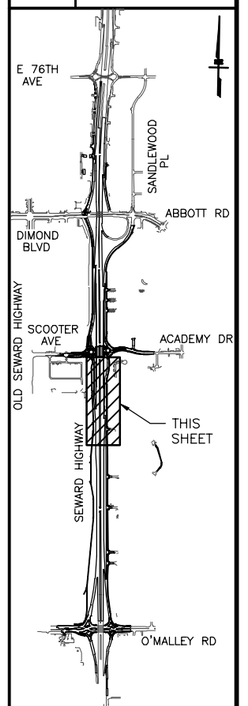
LOAD CENTER NOTES:

1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL103	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
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DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SEWARD HIGHWAY

ILLUMINATION

DATE/TIME 4/8/2022 3:45 PM | LAYOUT HL103 | DESIGNED AM | CHECKED KK | DRAFTED ZH

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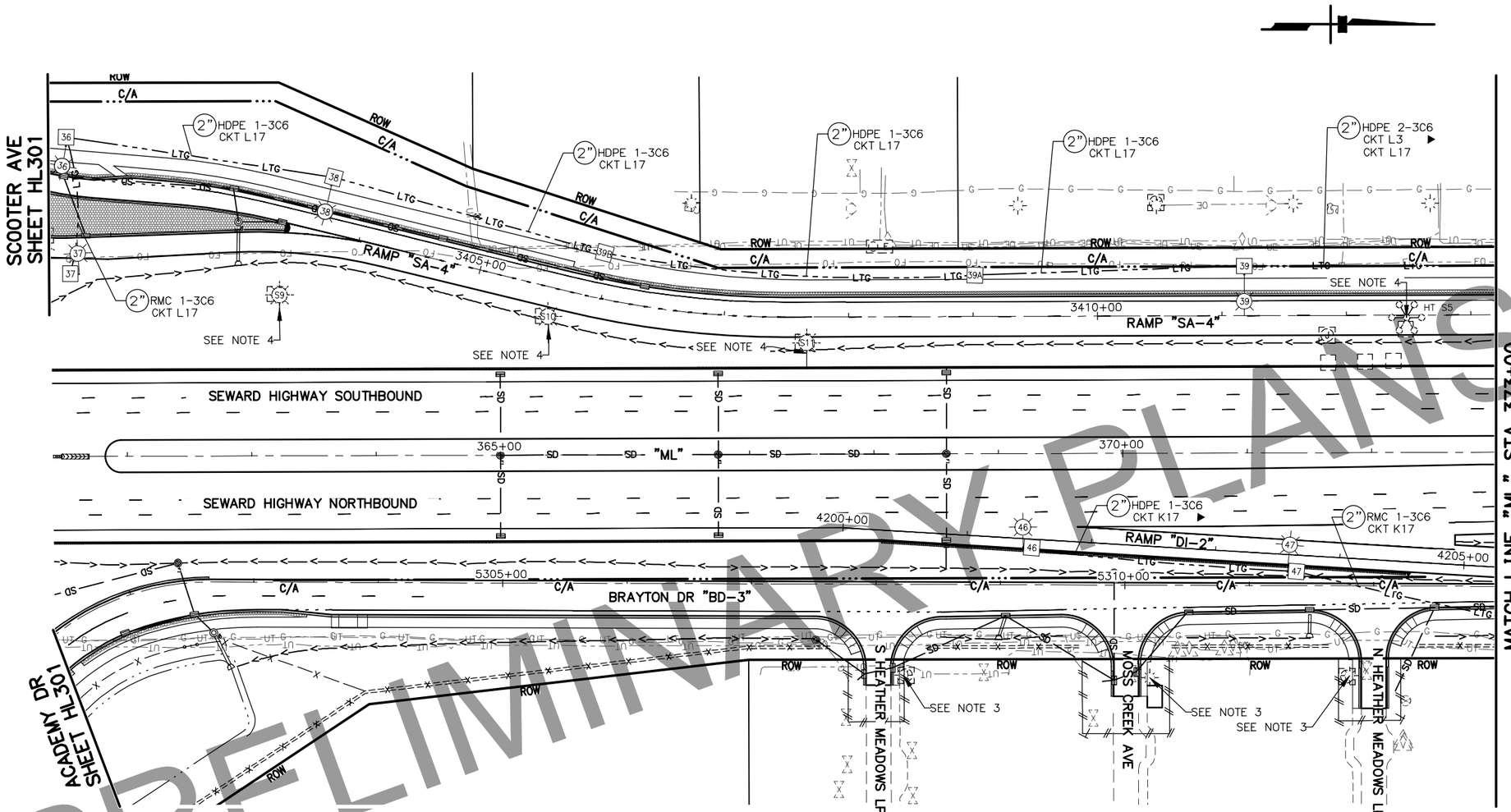

LIGHTING NOTES:

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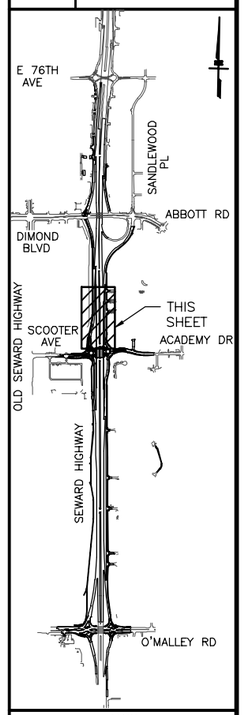
LOAD CENTER NOTES:

1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL104	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SEWARD HIGHWAY

ILLUMINATION

DATE/TIME 4/8/2022 3:45 PM | LAYOUT HL104 | DESIGNED AM | CHECKED KK | DRAFTED ZH

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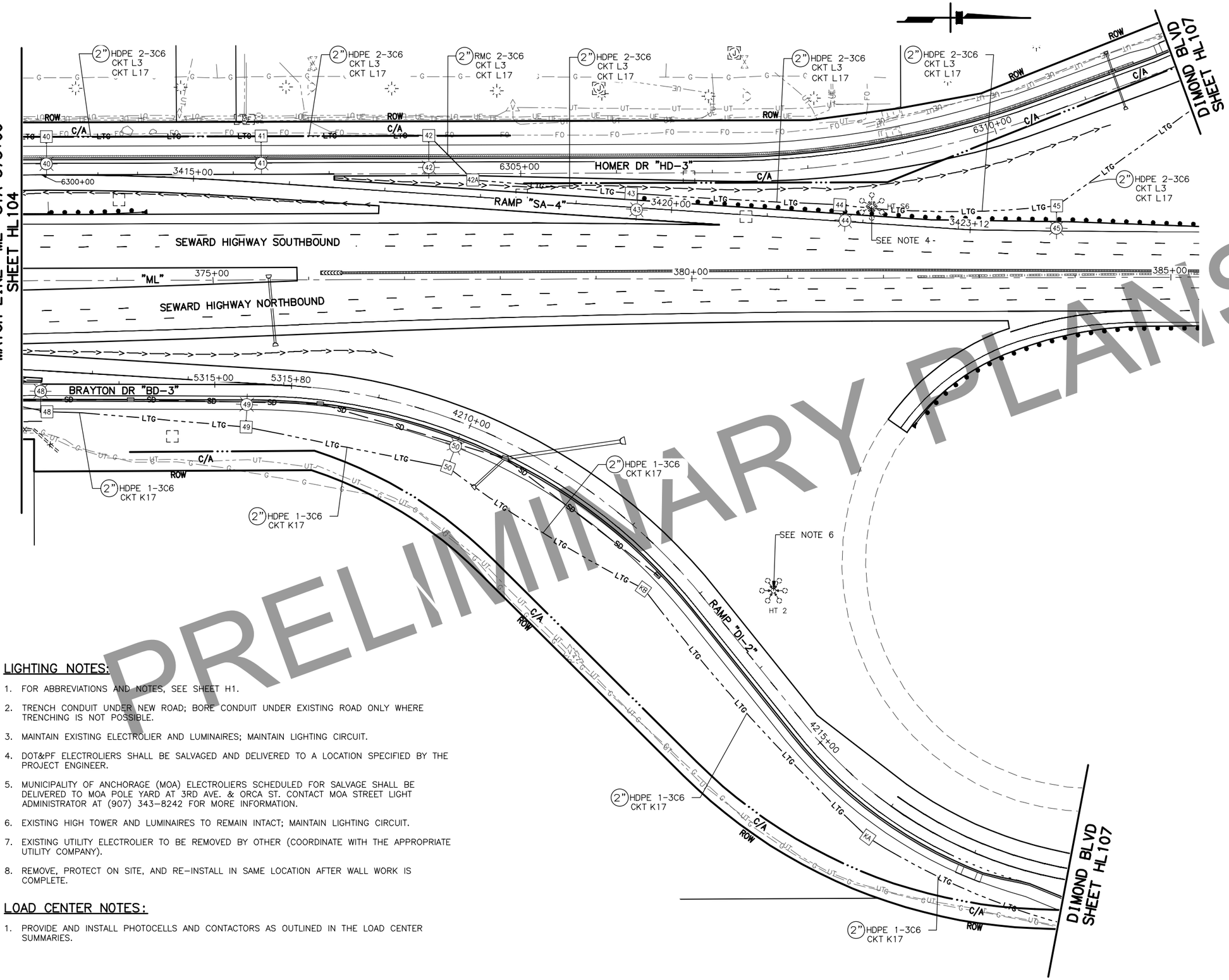


LIGHTING NOTES:

1. FOR ABBREVIATIONS AND NOTES, SEE SHEET H1.
2. TRENCH CONDUIT UNDER NEW ROAD; BORE CONDUIT UNDER EXISTING ROAD ONLY WHERE TRENCHING IS NOT POSSIBLE.
3. MAINTAIN EXISTING ELECTROLIER AND LUMINAIRES; MAINTAIN LIGHTING CIRCUIT.
4. DOT&PF ELECTROLIERS SHALL BE SALVAGED AND DELIVERED TO A LOCATION SPECIFIED BY THE PROJECT ENGINEER.
5. MUNICIPALITY OF ANCHORAGE (MOA) ELECTROLIERS SCHEDULED FOR SALVAGE SHALL BE DELIVERED TO MOA POLE YARD AT 3RD AVE. & ORCA ST. CONTACT MOA STREET LIGHT ADMINISTRATOR AT (907) 343-8242 FOR MORE INFORMATION.
6. EXISTING HIGH TOWER AND LUMINAIRES TO REMAIN INTACT; MAINTAIN LIGHTING CIRCUIT.
7. EXISTING UTILITY ELECTROLIER TO BE REMOVED BY OTHER (COORDINATE WITH THE APPROPRIATE UTILITY COMPANY).
8. REMOVE, PROTECT ON SITE, AND RE-INSTALL IN SAME LOCATION AFTER WALL WORK IS COMPLETE.

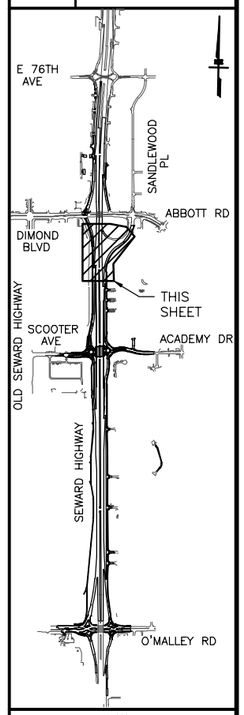
LOAD CENTER NOTES:

1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL105	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

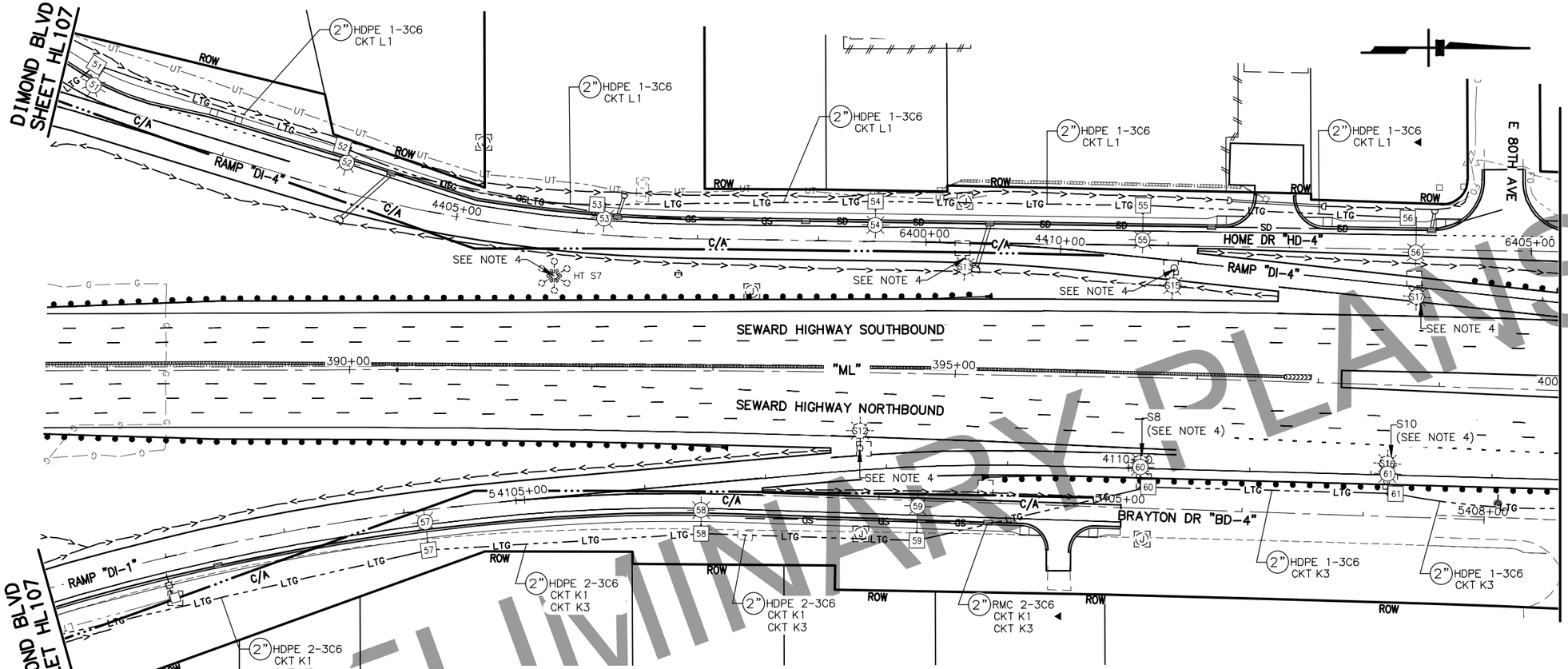
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

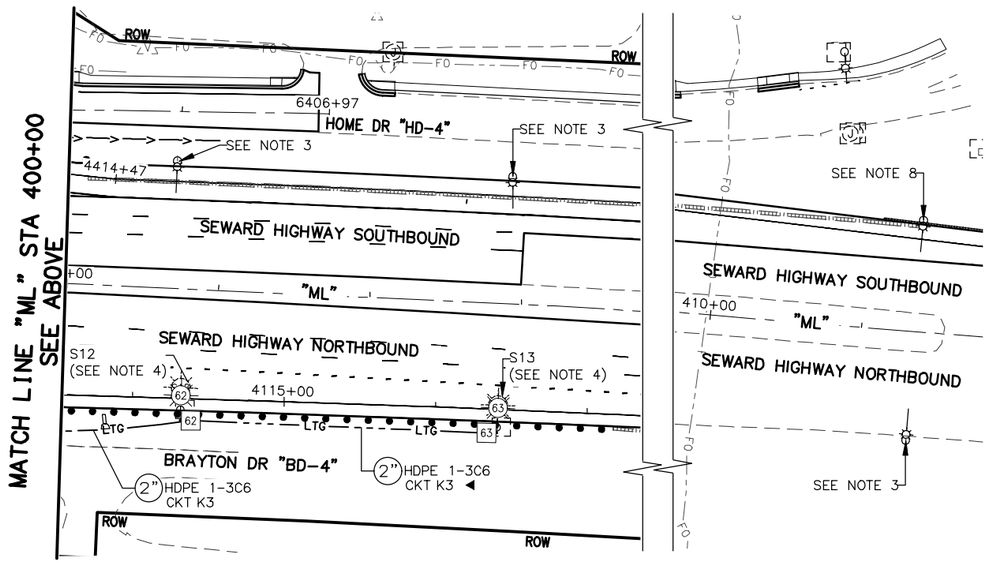
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SEWARD HIGHWAY

ILLUMINATION

DATE/TIME 4/8/2022 3:45 PM | LAYOUT HL105 | DESIGNED AM | CHECKED KK | DRAFTED ZH
FILE C:\DOWL_PW\D0391306\SC-CT-SG-HE-62153.DWG





LIGHTING NOTES:

1. FOR ABBREVIATIONS AND NOTES, SEE SHEET H1.
2. TRENCH CONDUIT UNDER NEW ROAD; BORE CONDUIT UNDER EXISTING ROAD ONLY WHERE TRENCHING IS NOT POSSIBLE.
3. MAINTAIN EXISTING ELECTROLIER AND LUMINAIRES; MAINTAIN LIGHTING CIRCUIT.
4. DOT&PF ELECTROLIERS SHALL BE SALVAGED AND DELIVERED TO A LOCATION SPECIFIED BY THE PROJECT ENGINEER.
5. MUNICIPALITY OF ANCHORAGE (MOA) ELECTROLIERS SCHEDULED FOR SALVAGE SHALL BE DELIVERED TO MOA POLE YARD AT 3RD AVE. & ORCA ST. CONTACT MOA STREET LIGHT ADMINISTRATOR AT (907) 343-8242 FOR MORE INFORMATION.
6. EXISTING HIGH TOWER AND LUMINAIRES TO REMAIN INTACT; MAINTAIN LIGHTING CIRCUIT.
7. EXISTING UTILITY ELECTROLIER TO BE REMOVED BY OTHER (COORDINATE WITH THE APPROPRIATE UTILITY COMPANY).
8. REMOVE, PROTECT ON SITE, AND RE-INSTALL IN SAME LOCATION AFTER WALL WORK IS COMPLETE.

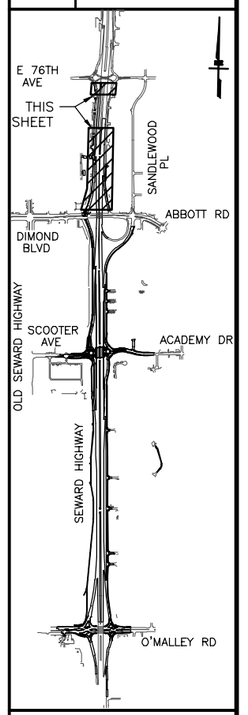
LOAD CENTER NOTES:

1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL106	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SEWARD HIGHWAY

ILLUMINATION

DATE/TIME 4/8/2022 3:46 PM | LAYOUT HL106 | DESIGNED AM | CHECKED KK | DRAFTED ZH
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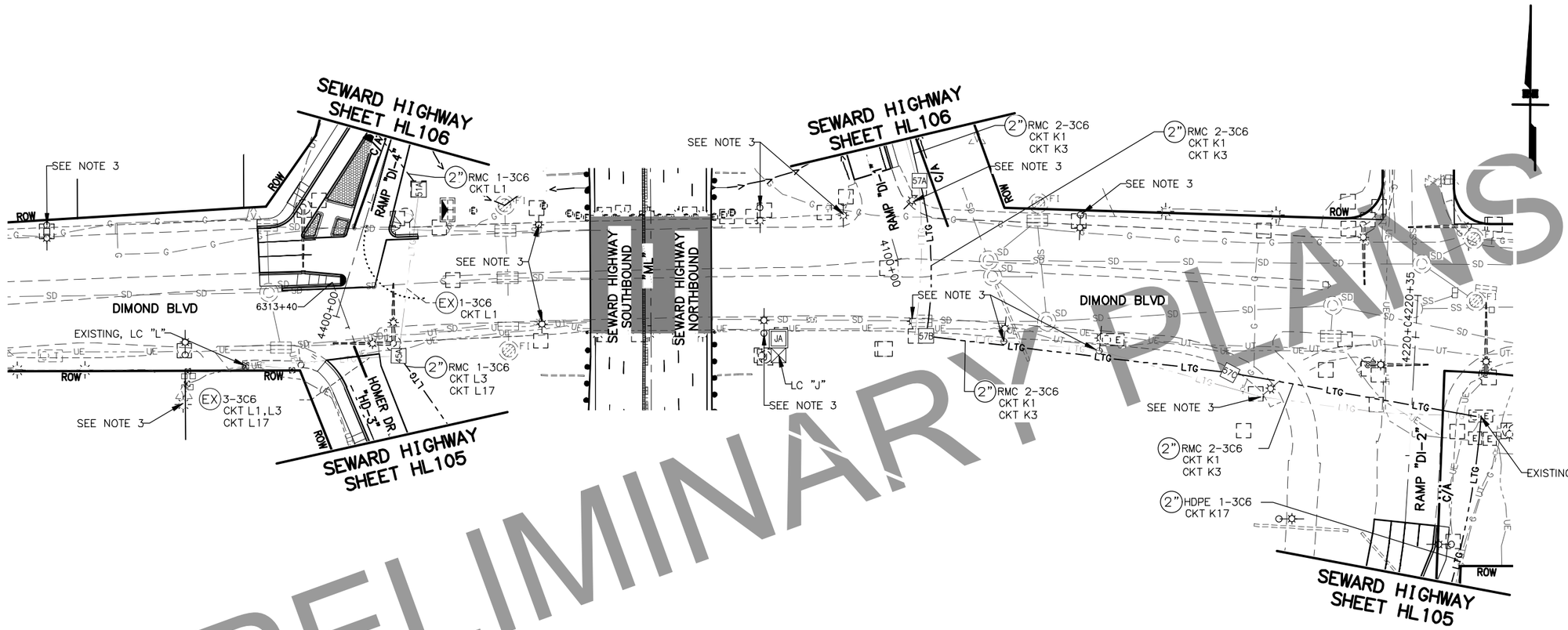

LIGHTING NOTES:

1. FOR ABBREVIATIONS AND NOTES, SEE SHEET H1.
2. TRENCH CONDUIT UNDER NEW ROAD; BORE CONDUIT UNDER EXISTING ROAD ONLY WHERE TRENCHING IS NOT POSSIBLE.
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8. REMOVE, PROTECT ON SITE, AND RE-INSTALL IN SAME LOCATION AFTER WALL WORK IS COMPLETE.

LOAD CENTER NOTES:

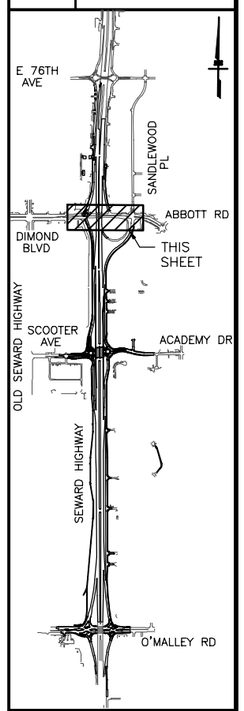
1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL107	HL107
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

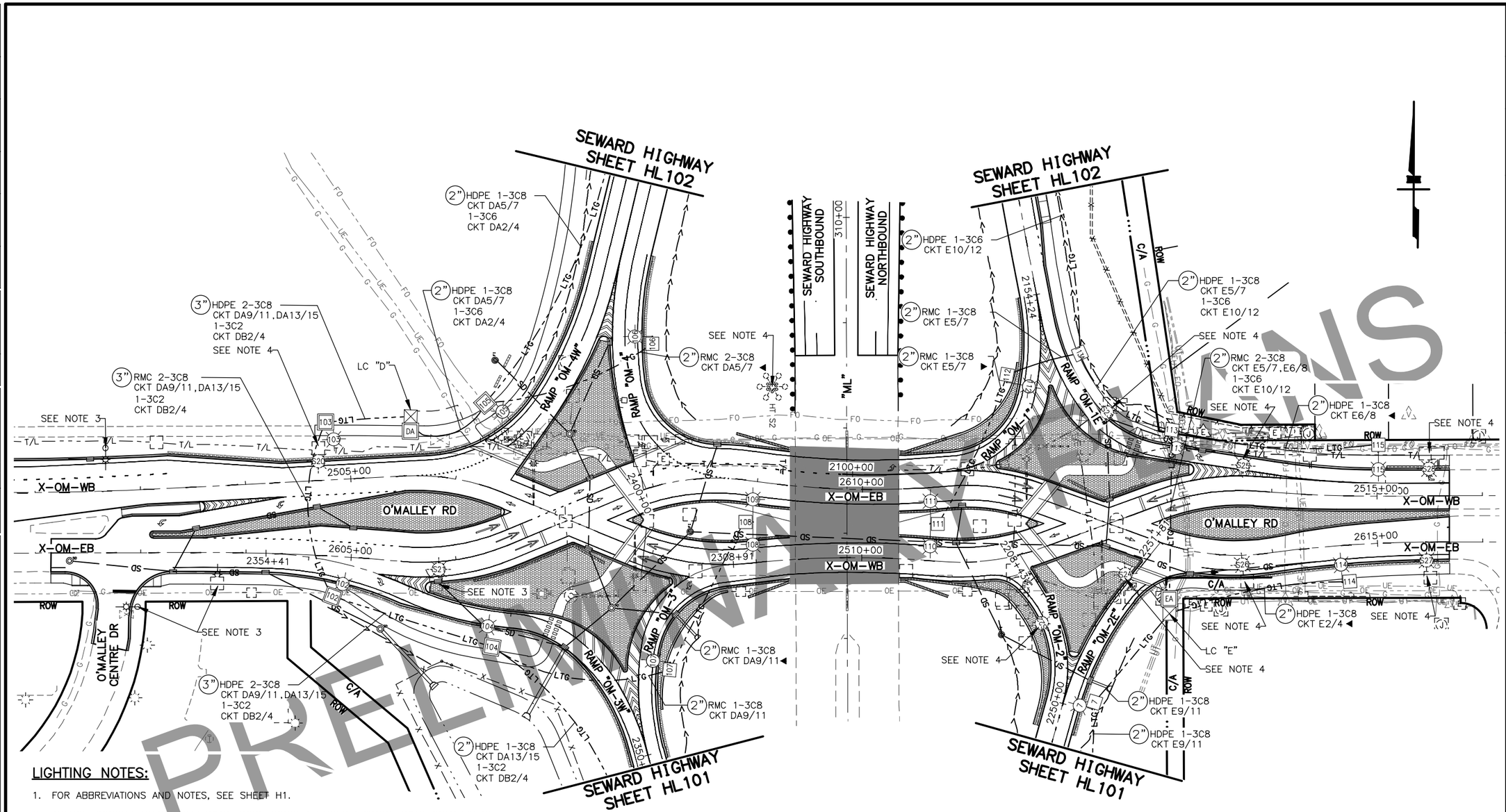
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

DIMOND BOULEVARD

ILLUMINATION

FILE C:\DOWL_PW\D0391306\SC-CT-SC-HE-62153.DWG | DATE/TIME 4/8/2022 3:46 PM | LAYOUT HL107 | DESIGNED AM | CHECKED KK | DRAFTED ZH



LIGHTING NOTES:

1. FOR ABBREVIATIONS AND NOTES, SEE SHEET H1.
2. TRENCH CONDUIT UNDER NEW ROAD; BORE CONDUIT UNDER EXISTING ROAD ONLY WHERE TRENCHING IS NOT POSSIBLE.
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LOAD CENTER NOTES:

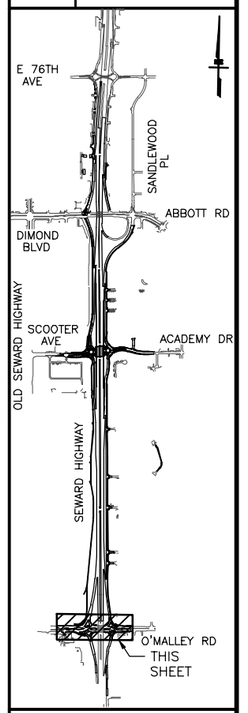
1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL201	HL201
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

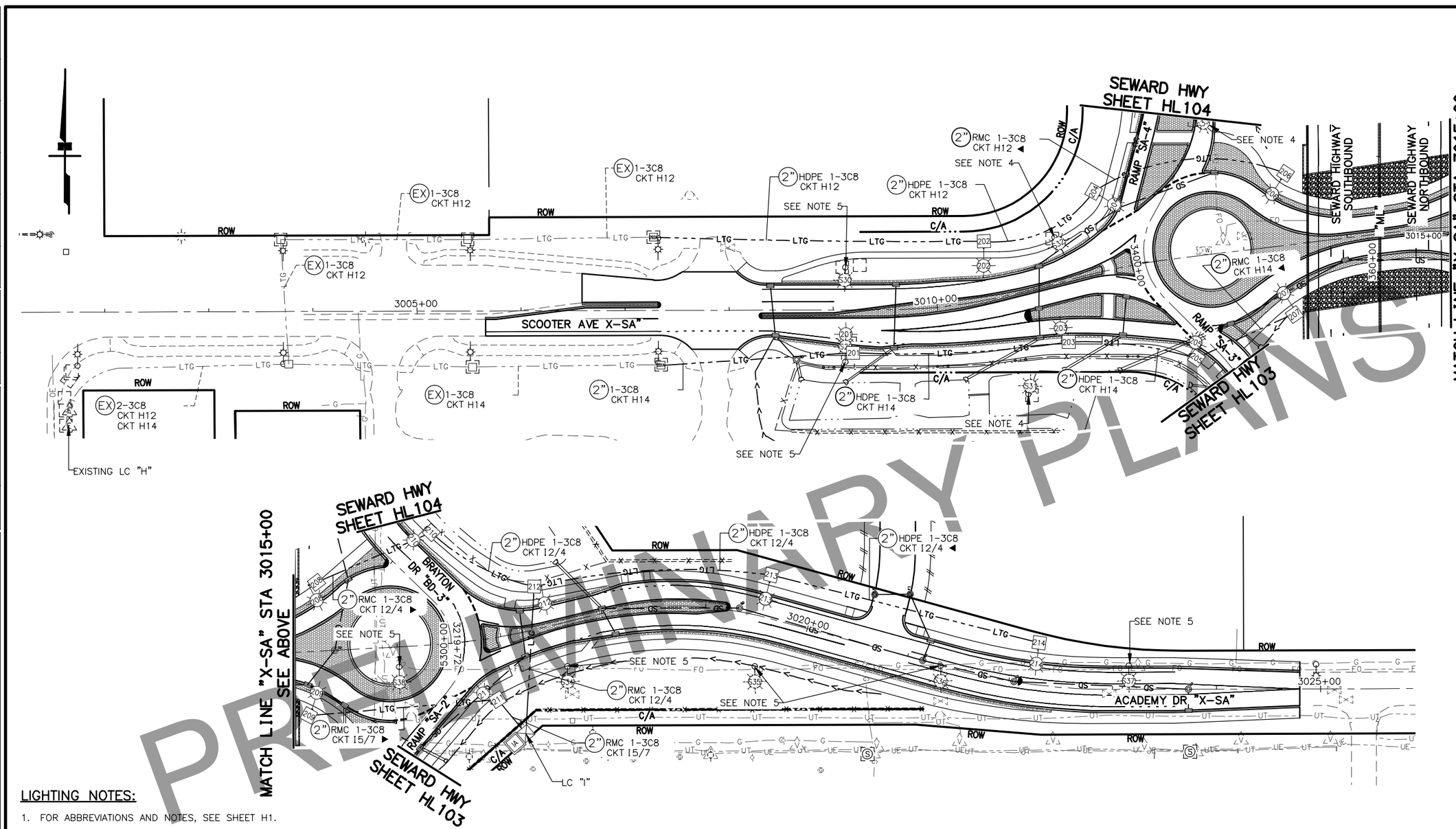
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY ROAD

ILLUMINATION

DATE/TIME 4/8/2022 3:46 PM | LAYOUT HL201 | DESIGNED AM | CHECKED KK | DRAFTED ZH

FILE C:\DOWL_PW\D0391306\SC-CT-SG-HE-62153.DWG



PRELIMINARY PLANS

LIGHTING NOTES:

1. FOR ABBREVIATIONS AND NOTES, SEE SHEET H1.
2. TRENCH CONDUIT UNDER NEW ROAD; BORE CONDUIT UNDER EXISTING ROAD ONLY WHERE TRENCHING IS NOT POSSIBLE.
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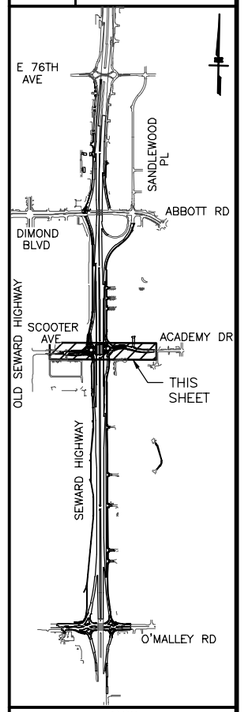
LOAD CENTER NOTES:

1. PROVIDE AND INSTALL PHOTOCELLS AND CONTACTORS AS OUTLINED IN THE LOAD CENTER SUMMARIES.

SHEET NO.	TOTAL SHEETS
HL301	HL301
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE/ ACADEMY DRIVE

ILLUMINATION

DATE/TIME 4/8/2022 3:47 PM | LAYOUT HL301 | DESIGNED AM | CHECKED KK | DRAFTED ZH
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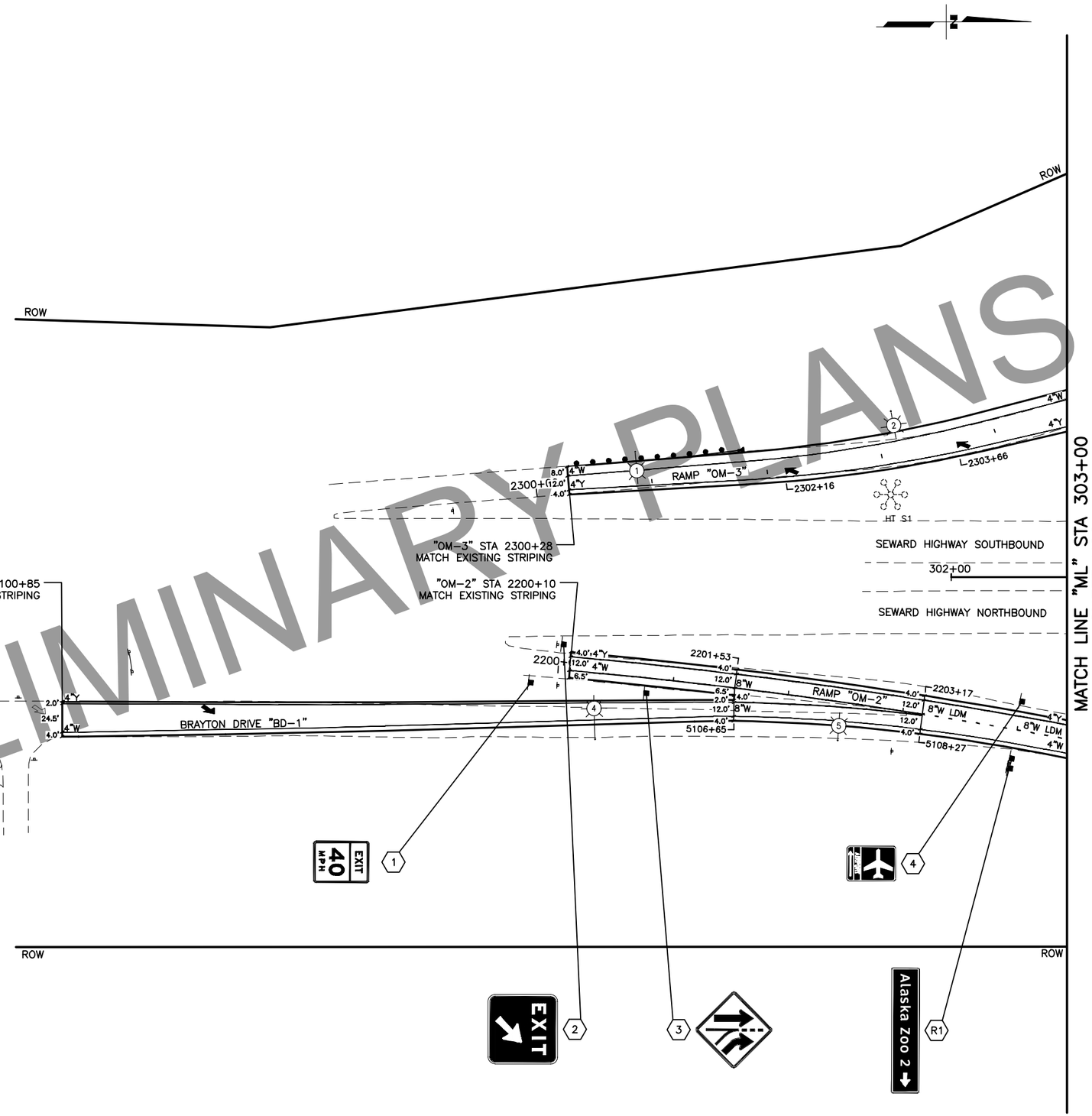
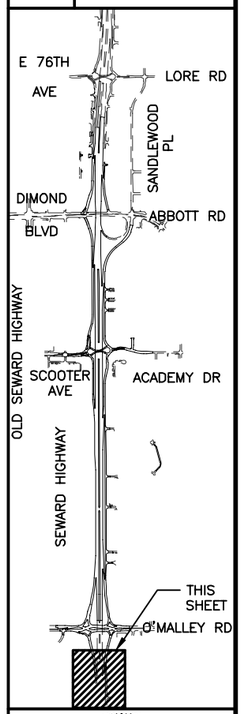


SHEET NO.	TOTAL SHEETS
HS1	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

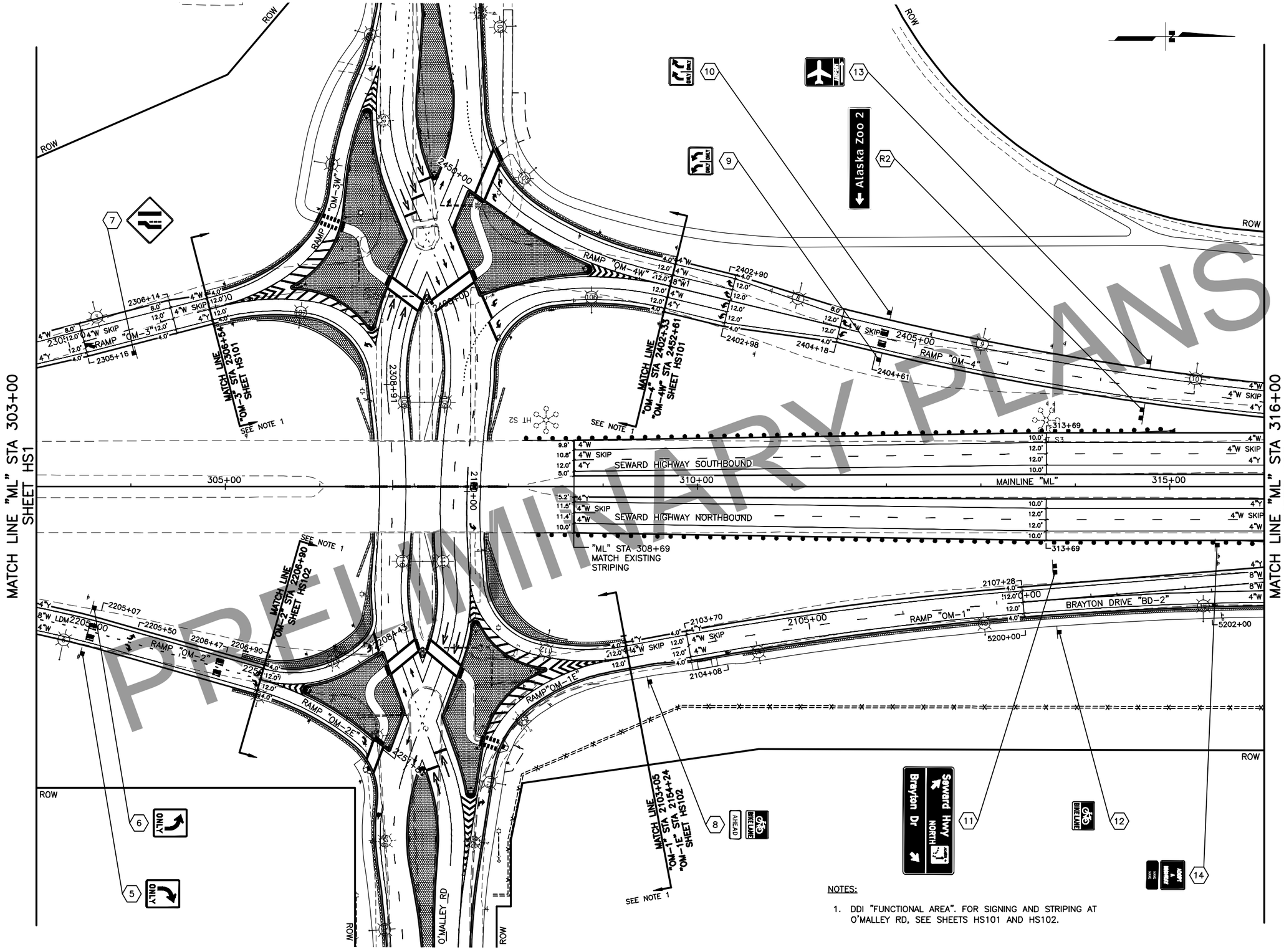
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
BOP TO 303+00

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655226\D0876333\00012_HS1_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:31 AM | LAYOUT | HS1 | DESIGNED | CHECKED | DRAFTED |



NOTES:

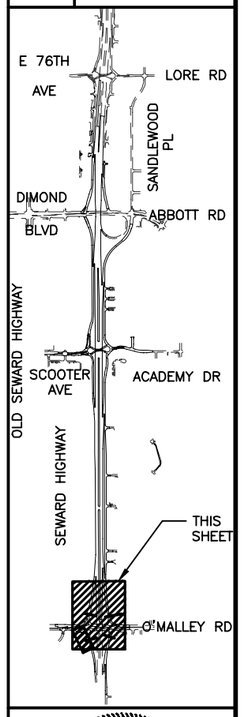
1. DDI "FUNCTIONAL AREA". FOR SIGNING AND STRIPING AT O'MALLEY RD, SEE SHEETS HS101 AND HS102.

SHEET NO.	TOTAL SHEETS
HS2	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

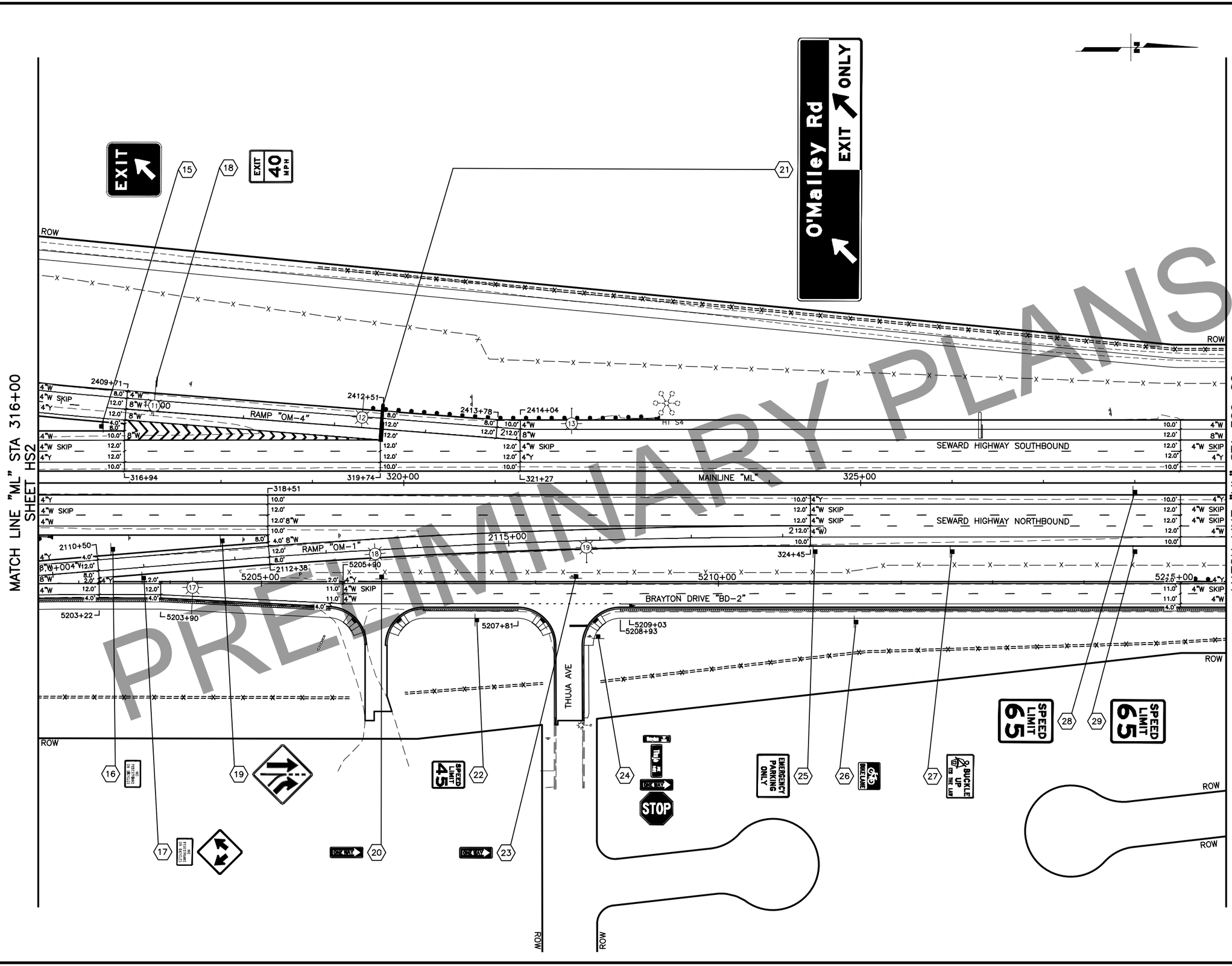
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
303+00 TO 316+00

DATE/TIME | 4/11/2022 2:32 AM | LAYOUT | HS2 | DESIGNED | CHECKED | DRAFTED
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655226\D0876333\00012_HS2_SIGNSTRIPE.DWG

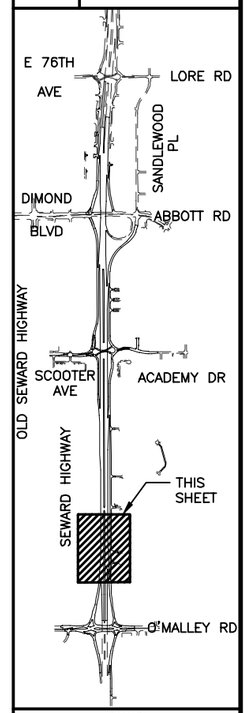


SHEET NO.	TOTAL SHEETS
HS3	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

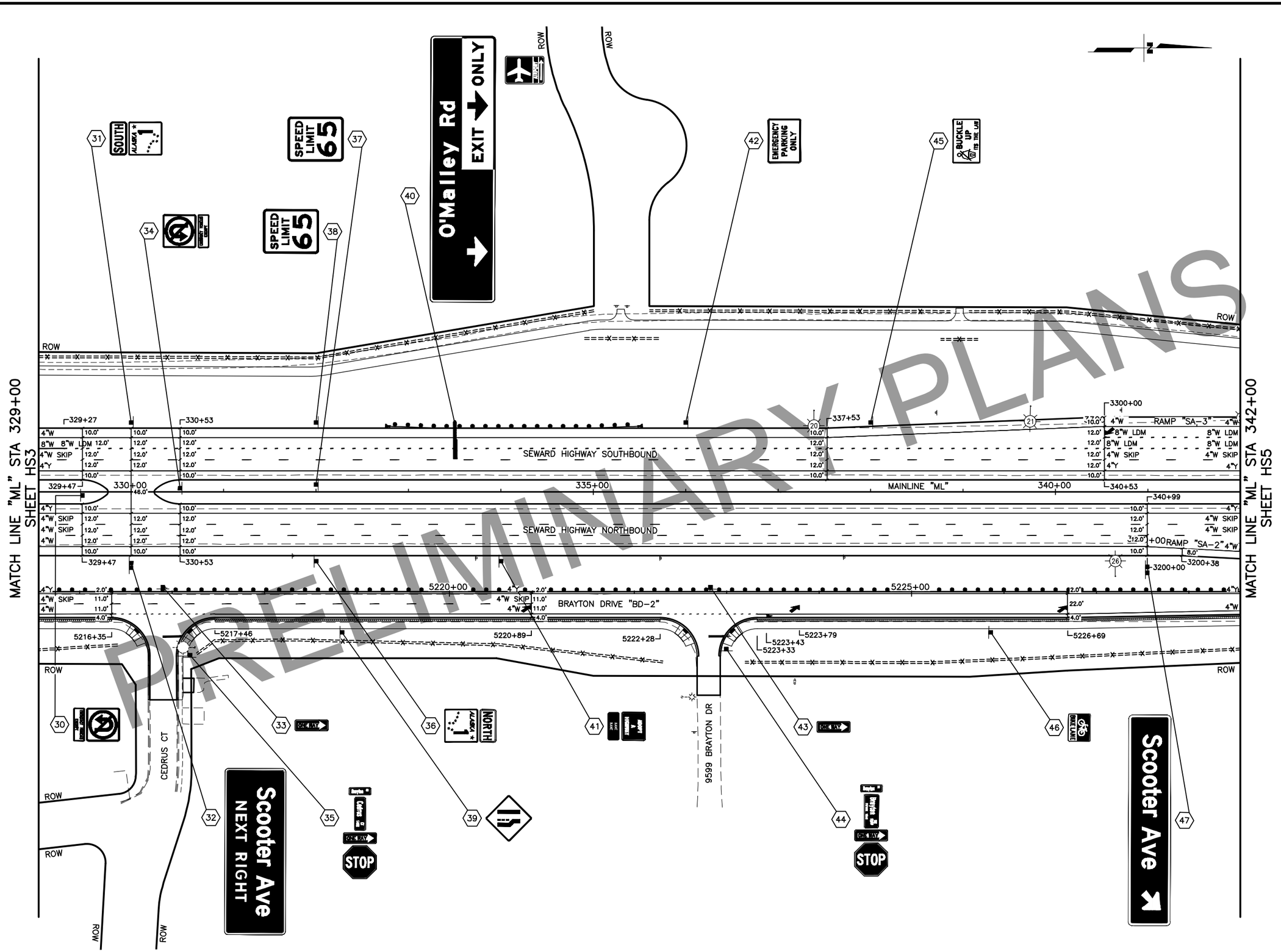
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
316+00 TO 329+00

DATE/TIME 4/11/2022 2:33 AM | LAYOUT HS3 | DESIGNED | CHECKED | DRAFTED
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655226\D0876333\00012_HS3_SIGNSTRIPE.DWG

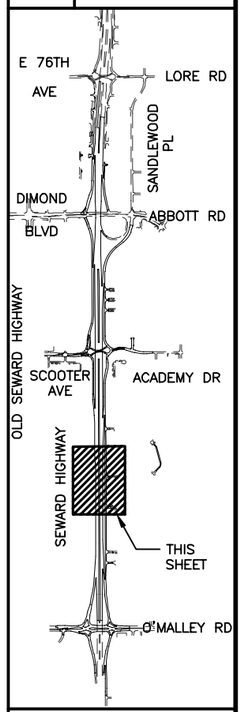


SHEET NO.	TOTAL SHEETS
HS4	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

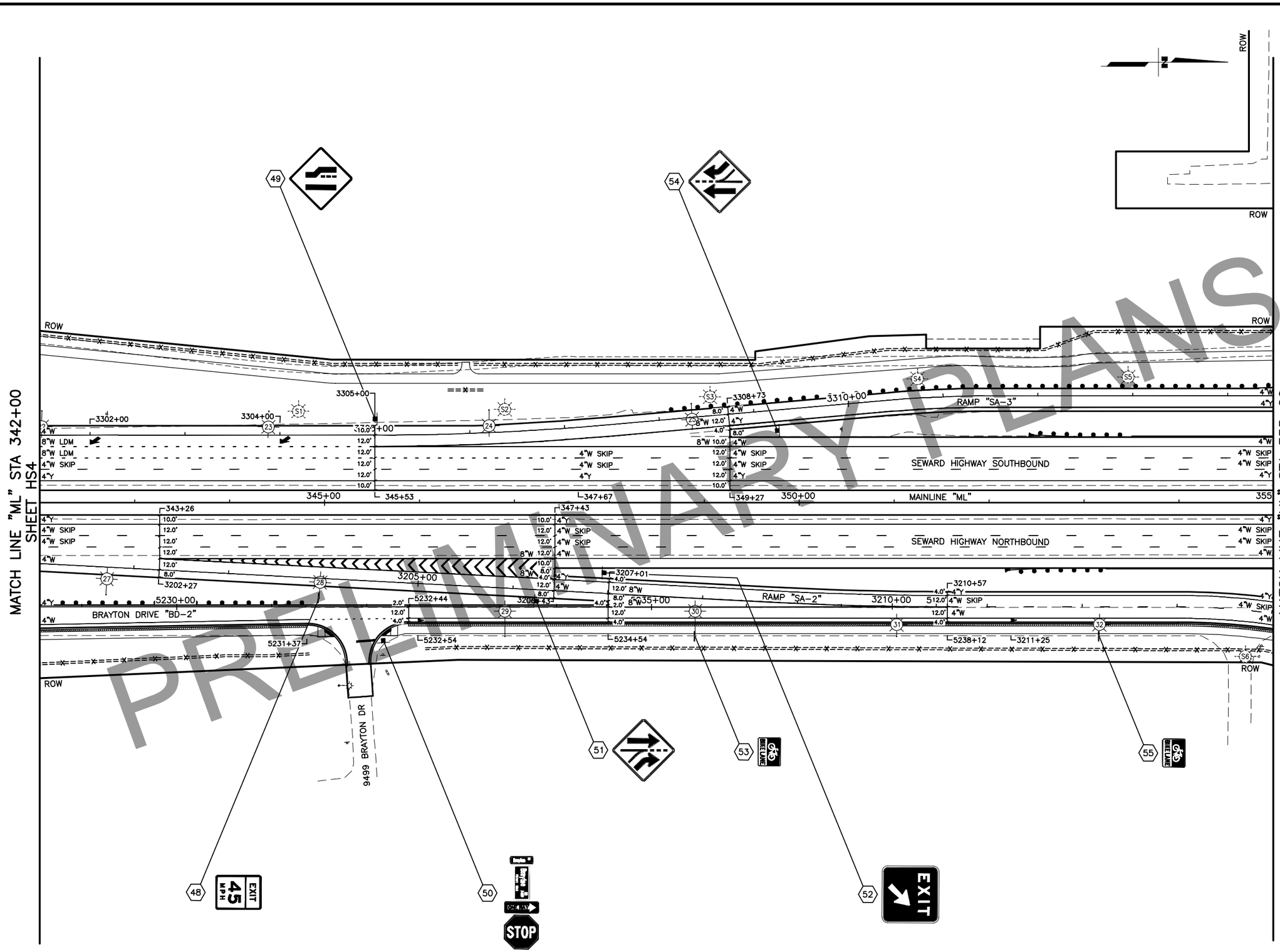
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
329+00 TO 342+00

FILE: C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS4_SIGNSTRIPE.DWG
DATE/TIME: 4/11/2022 2:33 AM | LAYOUT: HS4 | DESIGNED: | CHECKED: | DRAFTED:

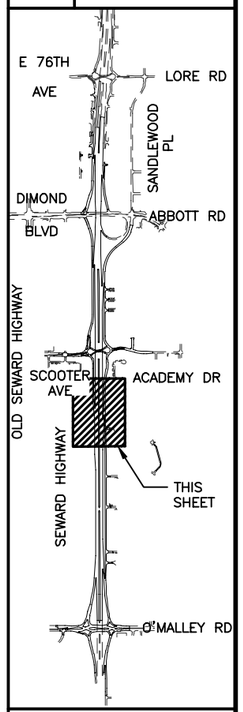


SHEET NO.	TOTAL SHEETS
HS5	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
40TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
342+00 TO 355+00

DATE/TIME 4/11/2022 2:33 AM | LAYOUT HS5 | DESIGNED | CHECKED | DRAFTED

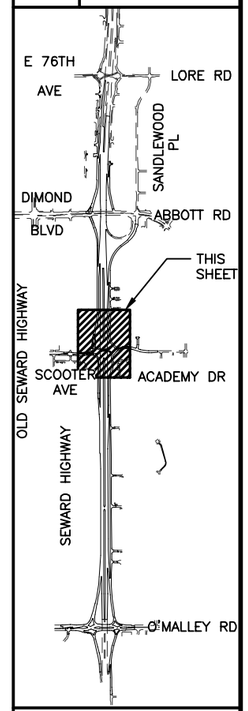
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS5_SIGNSTRIPE.DWG

SHEET NO.	TOTAL SHEETS
HS6	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

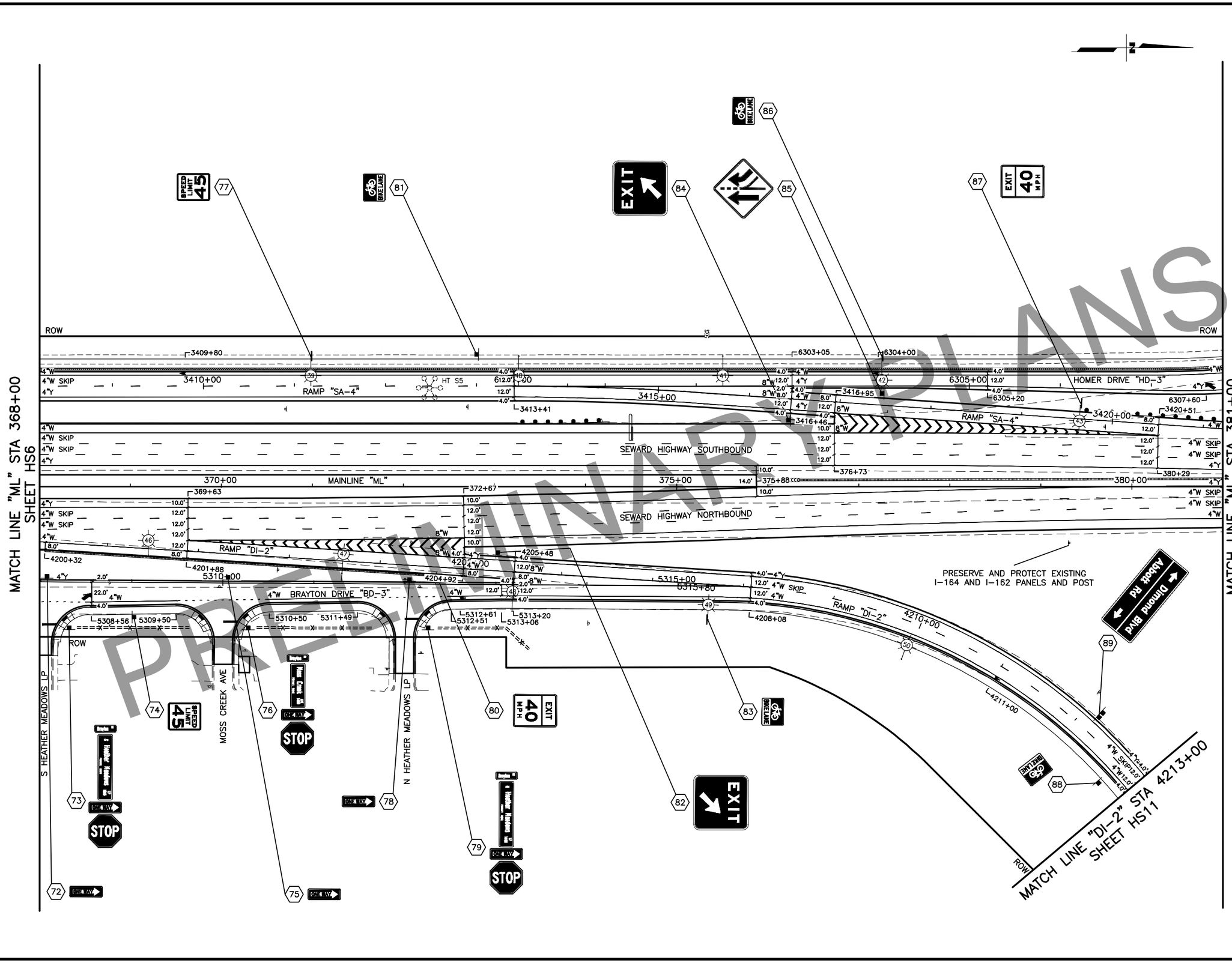
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
355+00 TO 368+00

NOTE:

1. ROUNDABOUT "FUNCTIONAL AREA". FOR SIGNING AND STRIPING AT ACADEMY DR AND SCOOTER AVE, SEE SHEETS HS201–204.

DATE/TIME 4/11/2022 2:34 AM | LAYOUT HS6 | DESIGNED | CHECKED | DRAFTED
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_HS6_SIGNSTRIPE.DWG

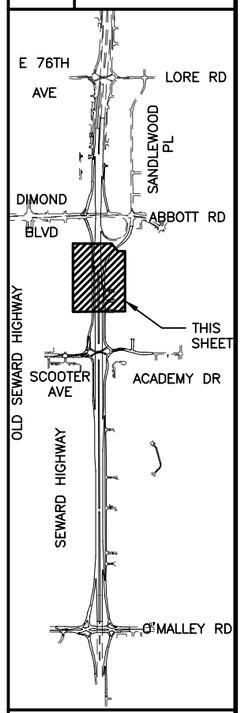


SHEET NO.	TOTAL SHEETS
HS7	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
368+00 TO 381+00

DATE/TIME 4/11/2022 2:34 AM | LAYOUT HS7 | DESIGNED | CHECKED | DRAFTED

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS7_SIGNSTRIPE.DWG

MATCH LINE "ML" STA 381+00 SHEET HS7

MATCH LINE "ML" STA 394+00 SHEET HS9

Scooter Ave

DIMOND BLVD

ROW

GREENWOOD STREET

"HOMER DRIVE" HD–3

RAMP "DI–4"

RAMP "DI–5"

RAMP "DI–1"

BRAYTON DRIVE "BD–4"

SEWARD HIGHWAY SOUTHBOUND

SEWARD HIGHWAY NORTHBOUND

ABBOTT RD

HT S7

90 91 92 93 94 95 96 97

R3 R4 R5

PRESERVE AND PROTECT EXISTING SEWARD HWY AND BRAYTON DRIVE GUIDE SIGN AND POSTS

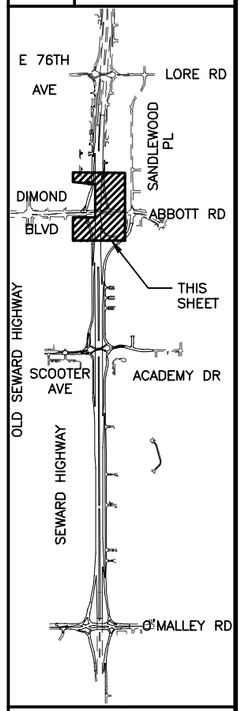
PRESERVE AND PROTECT EXISTING R3–17 AND R3–17A PANELS AND POST

SHEET NO.	TOTAL SHEETS
HS8	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

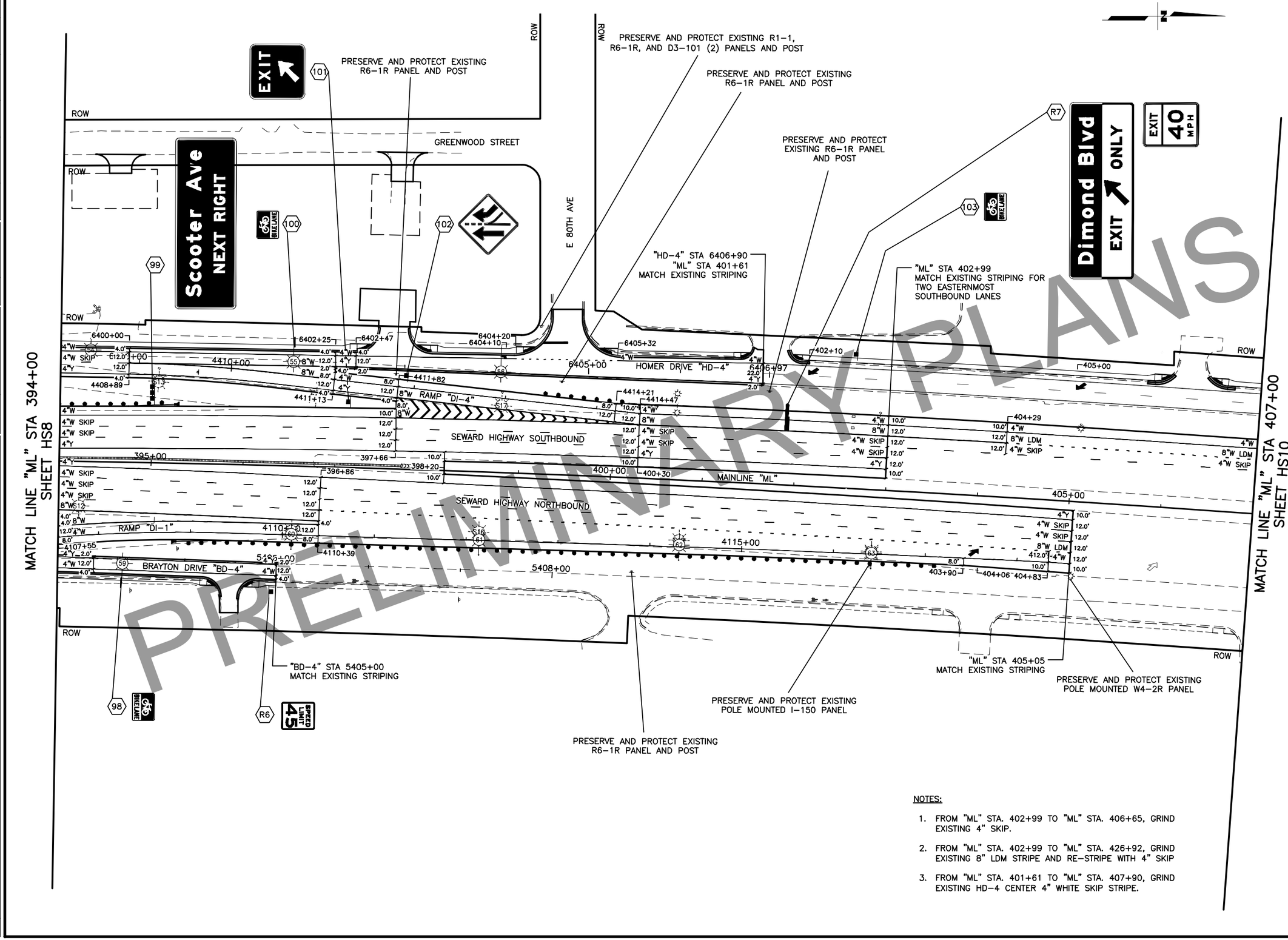
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
381+00 TO 394+00

FILE: C:\PW_WORKDIR\DEN001\CH2MHILL_JC0665526\D0876333\00012_HS8_SIGNSTRIPE.DWG | DATE/TIME: 4/11/2022 11:05 AM | LAYOUT: HS8 | DESIGNED: | CHECKED: | DRAFTED:



NOTES:

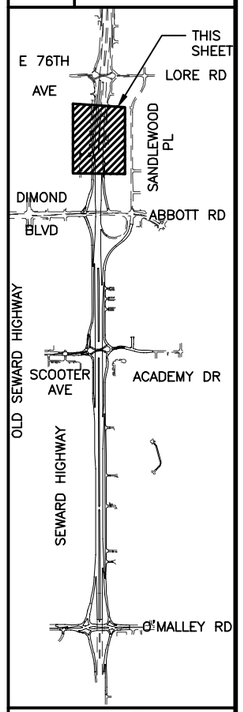
1. FROM "ML" STA. 402+99 TO "ML" STA. 406+65, GRIND EXISTING 4" SKIP.
2. FROM "ML" STA. 402+99 TO "ML" STA. 426+92, GRIND EXISTING 8" LDM STRIPE AND RE-STRIPE WITH 4" SKIP
3. FROM "ML" STA. 401+61 TO "ML" STA. 407+90, GRIND EXISTING HD-4 CENTER 4" WHITE SKIP STRIPE.

SHEET NO.	TOTAL SHEETS
HS9	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

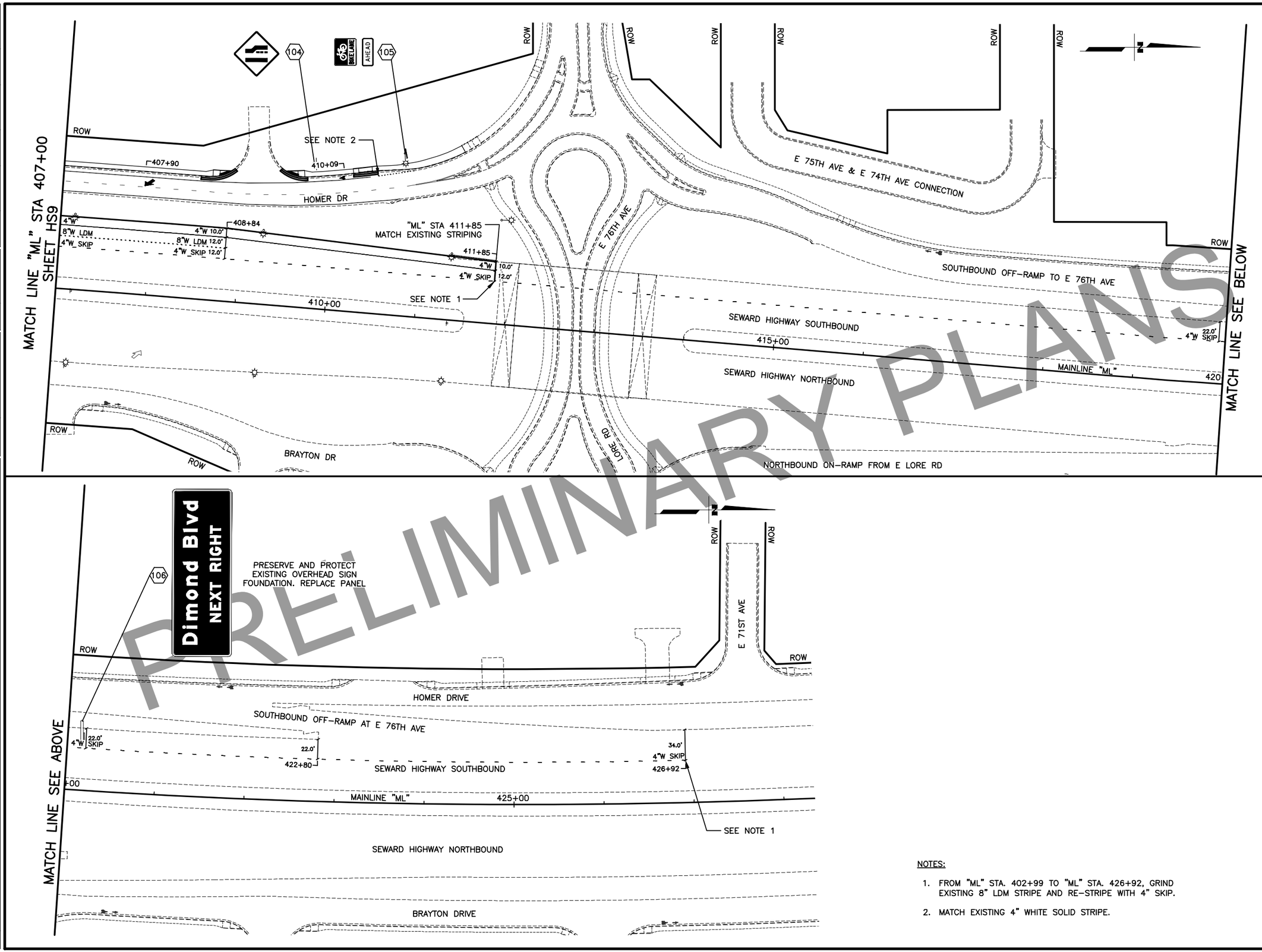
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
TRAFFIC
394+00 TO 407+00

DATE/TIME | 4/11/2022 11:01 AM | LAYOUT | HS9 | DESIGNED | CHECKED | DRAFTED

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS9_SIGNSTRIPE.DWG



PRELIMINARY

NOTES:

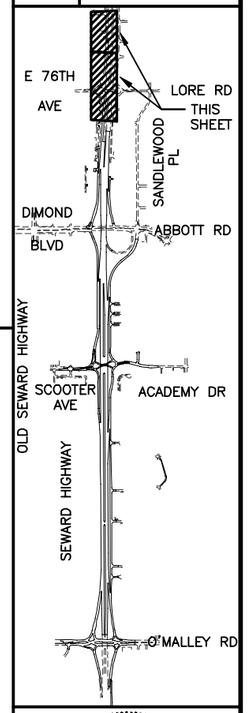
1. FROM "ML" STA. 402+99 TO "ML" STA. 426+92, GRIND EXISTING 8" LDM STRIPE AND RE-STRIPE WITH 4" SKIP.
2. MATCH EXISTING 4" WHITE SOLID STRIPE.

SHEET NO.	TOTAL SHEETS
HS10	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

MAINLINE "ML"
SIGNING AND STRIPING
407+00 TO EOP

DATE/TIME 4/11/2022 2:36 AM | LAYOUT HS10 | DESIGNED | CHECKED | DRAFTED
FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_HS10_SIGNSTRIPE.DWG

MATCH LINE "DI-2" STA 4213+00
SHEET HS7

HT 2

"RAMP DI-2"

4.0' 4"Y
12.0' 4"W SKIP
12.0' 4"W
4.0'
4.0' 4"Y
12.0'
12.0'
4.0'
4215+00
L 4214+75

4216+00
4.0' 4"Y
12.0'
12.0' 8"W
12.0' 8"W
4.0' 4"W
4217+95
4.0'
4216+77
4.0' 4"Y
2.2'
12.0'
8"W
12.0'
8"W
12.0'
12.0' 8"W
12.0'
13.0'
13.0'
4217+61
4218+25

"RAMP DI-5"

4220+00
4220+35

"DI-2" STA 4218+43
MATCH EXISTING STRIPING

ROW
ROW
ROW
ROW
ROW
ROW

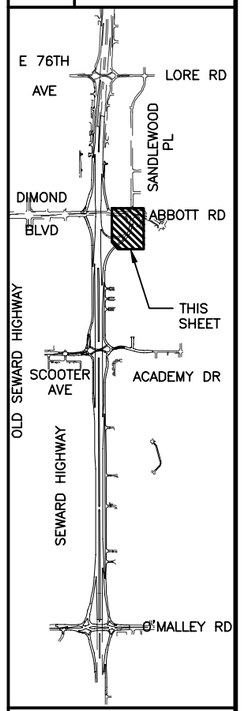
ABBOTT RD
SANDLEWOOD PL

ONLY ONLY
108
ONLY ONLY
WRONG WAY
111
107
109
BIKE LANE ENDS
110
ONLY ONLY
WRONG WAY

SHEET NO.	TOTAL SHEETS
HS11	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
NOTIFIED PROFESSIONAL ENGR.

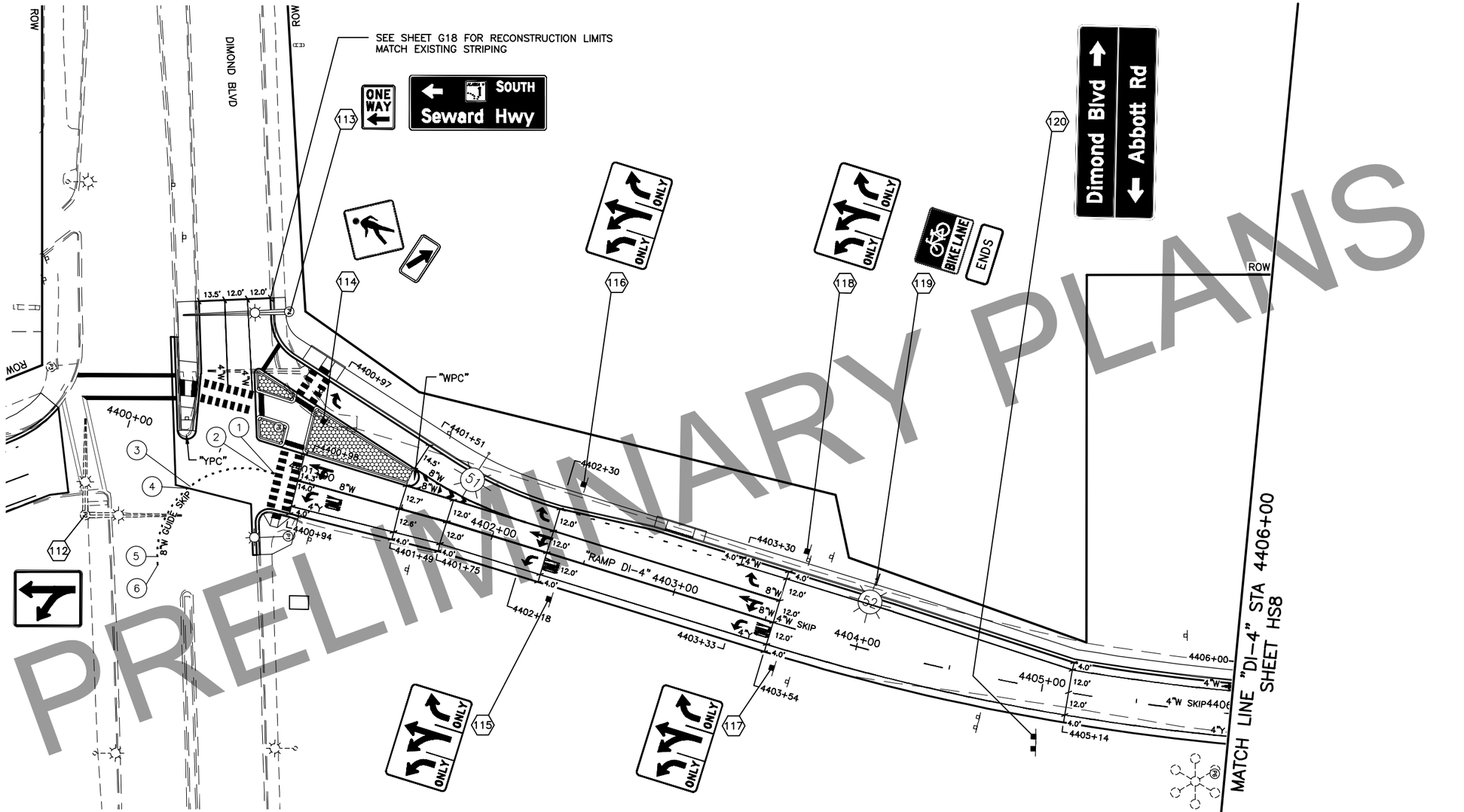
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

RAMP "DI-2"
TRAFFIC
4213+00 TO EOP

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_HS11_SIGNSTRIPE.DWG | DATE/TIME 4/11/2022 2:37 AM | LAYOUT HS11 | DESIGNED | CHECKED | DRAFTED



DI-4 STRIPING POINTS

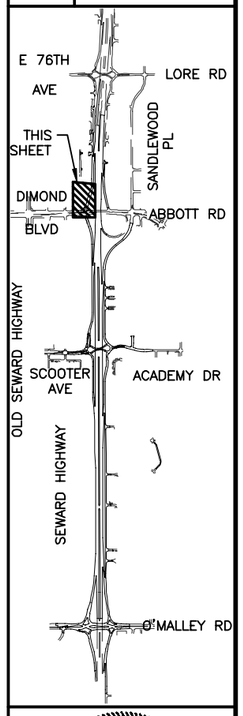
POINT NO.	"DI-4" STA	OFFSET (FT)	DIRECTION	REMARKS
①	4400+81	2.5	RT	BEGIN 8"W GUIDE SKIP
②	4400+76	2.6	RT	PC; R=45'
③	4400+41	21.9	RT	1/2 PT; R=45'
④	4400+40	23.2	RT	RECONSTRUCTION LIMIT
⑤	4400+35	62.2	RT	PT; R=45'
⑥	4400+36	66.5	RT	MATCH EXISTING STRIPING

SHEET NO.	TOTAL SHEETS
HS12	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

RAMP "DI-4"
TRAFFIC
4400+00 TO 4406+00

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS12_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:37 AM | LAYOUT | HS12 | DESIGNED | CHECKED | DRAFTED |

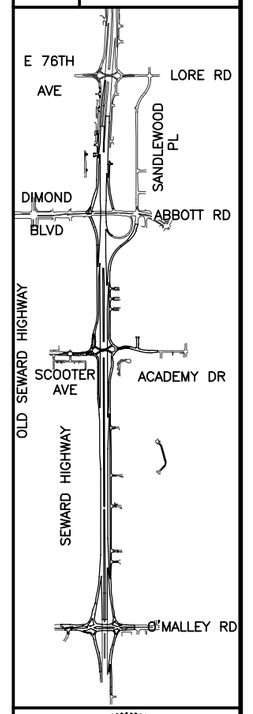
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS1	1	"BD–1" 5104+90	LT	W13–2		36	48	12.00	S	1 – 4" T	X		
HS1	2	"OM–2" 2200+03	LT	E5–1		60	60	25.00	S	1 – 4" T	X		
HS1	3	"OM–2" 2200+78	RT	W4–3R		48	48	16.00	S	1 – 3" T	X		
HS1	4	"OM–2" 2204+00	LT	I–5 CUSTOM		30	42	8.75	S	1 – 3" T		X	
HS2	5	"OM–2" 2205+00	RT	R3–5R		30	36	7.50	S	1 – 3" T		X	
HS2	6	"OM–2" 2205+00	LT	R3–5L		30	36	7.50	S	1 – 3" T		X	
HS2	7	"OM–3" 2305+64	RT	W4–2L		36	36	9.00	N	1 – 3" T	X		
HS2	8	"OM–1" 2103+23	RT	R3–17		30	24	5.00	S	1 – 3" T		X	MOUNT R3–17A BELOW R3–17
				R3–17A		30	12	2.50	S			X	
HS2	9	"OM–4" 2404+66	RT	R3–8L/L		36	36	9.00	N	1 – 3" T	X		
HS2	10	"OM–4" 2404+66	LT	R3–8R/R		36	36	9.00	N	1 – 3" T	X		
HS2	11	"OM–1" 2107+64	LT	CUSTOM		114	54	42.75	S	2 – 4" T	X		

SHEET NO.	TOTAL SHEETS
HS13	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS13_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:38 AM | LAYOUT | HS13 | DESIGNED | - | CHECKED | - | DRAFTED | -

STANDARD SIGN – 615.0001.0000

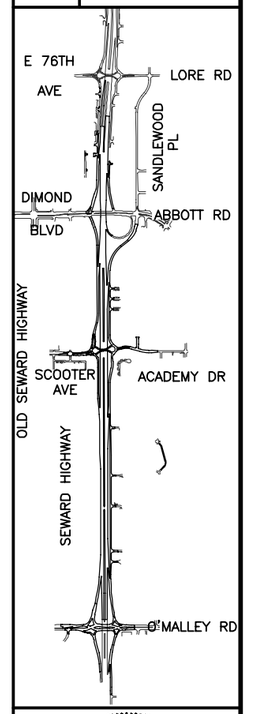
SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS2	12	"BD–2" 5200+36	RT	R3–17	BIKE LANE	30	24	5.00	S	1 – 3" T		X	
HS2	13	"OM–4" 2407+48	LT	I–5 CUSTOM	AIRPORT	30	42	8.75	N	1 – 3" T		X	
HS2	14	"ML" 315+50	RT	D14–100	ADOPT A HIGHWAY NAME NAME	30	24	5.00	S	1 – 3" T		X	OBTAIN CURRENT SPONSOR NAME FROM ALASKA DOT&PF PRIOR TO PLATE FABRIFACTION
						30	12	2.50	S			X	
HS3	15	"OM–4" 2409+46	RT	E5–1	EXIT	60	60	25.00	N	1 – 4" T	X		
HS3	16	"OM–1" 2110+68	LT	R5–10B	NO PEDESTRIANS OR BICYCLES	30	18	3.75	S	1 – 3" T		X	
HS3	17	"OM–1" 2110+99	RT	W12–1		36	36	9.00	S	1 – 3" T	X		MOUNT R5–10B BELOW W12–1
				R5–10B	NO PEDESTRIANS OR BICYCLES	30	18	3.75	S			X	
HS3	18	"OM–4" 2410+02	LT	W13–2	EXIT 40 MPH	36	48	12.00	N	POPL	X		MOUNT TO POLE 11
HS3	19	"OM–1" 2111+88	LT	W4–3R		48	48	16.00	S	1 – 3" T	X		
HS3	20	"BD–2" 5206+32	LT	R6–1R	ONE WAY	36	12	3.00	E	1 – 3" T	X		
HS3	21	"OM–4" 2412+51	LT	CUSTOM	O'Malley Rd EXIT ONLY	288	70	140.00	N	N/A	X		MOUNT TO OVERHEAD CANTILEVER ARM

SHEET NO.	TOTAL SHEETS
HS14	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS14_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:38 AM | LAYOUT | HS14 | DESIGNED | – | CHECKED | – | DRAFTED | –

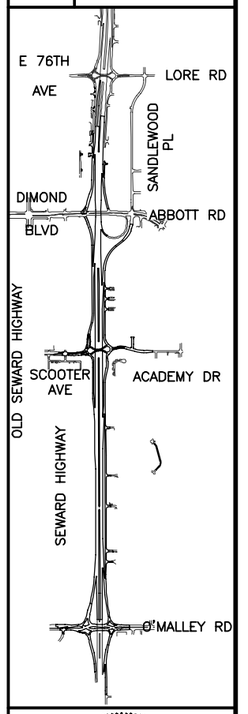
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS3	22	"BD–2" 5207+36	RT	R2–1	SPEED LIMIT 45	30	36	7.50	S	1 – 3" T		X	
HS3	23	"BD–2" 5208+44	LT	R6–1R	ONE WAY	36	12	3.00	E	1 – 3" T	X		
HS3	24	"BD–2" 5208+68	RT	D3–101	Brayton DR 12300	30	8	3.33	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–101	Thuja AVE 1400	36	12	6.00	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R	ONE WAY	36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1	STOP	36	36	9.00	E		X		
HS3	25	"ML" 324+50	RT	R8–4	EMERGENCY PARKING ONLY	48	36	12.00	S	1 – 3" T	X		
HS3	26	"BD–2" 5211+51	RT	R3–17	BIKE LANE	30	24	5.00	S	1 – 3" T		X	
HS3	27	"ML" 326+00	RT	R16–118	BUCKLE UP IT'S THE LAW	48	30	10.00	S	1 – 3" T	X		
HS3	28	"ML" 328+00	RT	R2–1	SPEED LIMIT 65	48	60	20.00	S	1 – 4" T	X		
HS3	29	"ML" 328+00	RT	R2–1	SPEED LIMIT 65	48	60	20.00	S	1 – 4" T	X		

SHEET NO.	TOTAL SHEETS
HS15	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

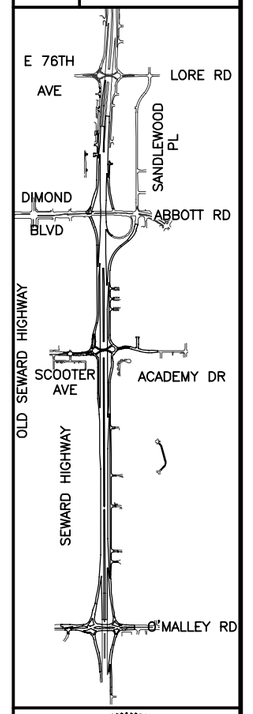
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS4	30	"ML" 329+47	RT	R3–4		36	36	9.00	S	1 – 3" T	X		MOUNT R3–100 BELOW R3–4
				R3–100		36	12	3.00	S		X		
HS4	31	"ML" 330+00	LT	M3–3		24	12	2.00	N	1 – 3" T		X	MOUNT M1–5 BELOW M3–3
				M1–5		36	36	9.00	N		X		
HS4	32	"ML" 330+00	RT	CUSTOM		120	42	35.00	S	2 – 4" T	X		
HS4	33	"BD–2" 5216+90	LT	R6–1R		36	12	3.00	E	1 – 3" T	X		
HS4	34	"ML" 330+53	LT	R3–4		36	36	9.00	N	1 – 3" T	X		MOUNT R3–100 BELOW R3–4
				R3–100		36	12	3.00	N		X		
HS4	35	"BD–2" 5217+20	RT	D3–101		30	8	3.33	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–101		36	12	6.00	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R		36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1		36	36	9.00	E		X		

SHEET NO.	TOTAL SHEETS
HS16	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS16_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:38 AM | LAYOUT | HS16 | DESIGNED | - | CHECKED | - | DRAFTED | -

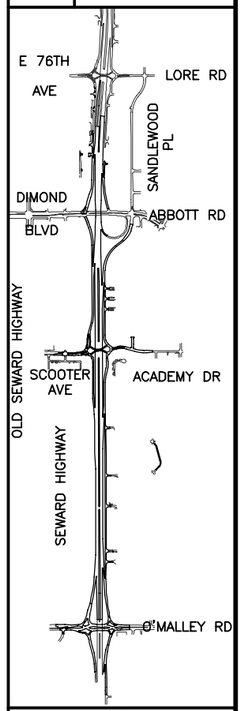
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS4	36	"ML" 332+00	RT	M3–1	NORTH	24	12	2.00	S	1 – 3" T		X	MOUNT M1–5 BELOW M3–1
				M1–5	ALASKA 1	36	36	9.00	S		X		
HS4	37	"ML" 332+00	LT	R2–1	SPEED LIMIT 65	48	60	20.00	N	1 – 4" T	X		
HS4	38	"ML" 332+00	LT	R2–1	SPEED LIMIT 65	48	60	20.00	N	1 – 4" T	X		
HS4	39	"BD–2" 5218+84	RT	W4–2R		36	36	9.00	S	1 – 3" T	X		
HS4	40	"ML" 333+50	LT	CUSTOM	O'Malley Rd EXIT ONLY	288	70	140.00	N	N/A	X		MOUNT TO OVERHEAD CANTILEVER ARM
				I–5 CUSTOM	AIRPORT	30	42	8.75	N	POPL		X	
HS4	41	"ML" 334+00	RT	D14–100	ADOPT A HIGHWAY NAME NAME	30	24	5.00	S	1 – 3" T		X	OBTAIN CURRENT SPONSOR NAME FROM ALASKA DOT&PF PRIOR TO PLATE FABRIFACTION
						30	12	2.50	S			X	
HS4	42	"ML" 336+00	LT	R8–4	EMERGENCY PARKING ONLY	48	36	12.00	N	1 – 3" T	X		
HS4	43	"BD–2" 5222+83	LT	R6–1R	ONE WAY	36	12	3.00	E	1 – 3" T	X		

SHEET NO.	TOTAL SHEETS
HS17	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS17_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:38 AM | LAYOUT | HS17 | DESIGNED | - | CHECKED | - | DRAFTED | -

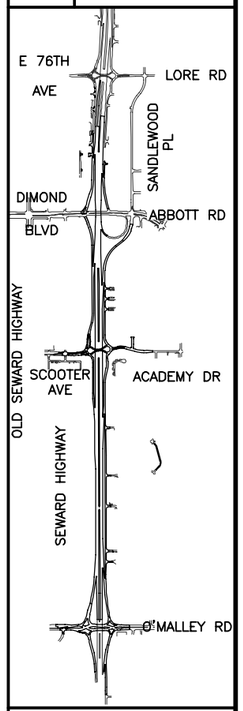
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS4	44	"BD–2" 5223+00	RT	D3–100	Brayton DR	24	8	2.67	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–1P	Brayton DR 9599 PRIVATE ROAD	36	16	8.00	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R	ONE WAY	36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1	STOP	36	36	9.00	E		X		
HS4	45	"ML" 338+00	LT	R16–118	BUCKLE UP IT'S THE LAW	48	30	10.00	N	1 – 3" T	X		
HS4	46	"BD–2" 5225+86	RT	R3–17	BIKE LANE	30	24	5.00	S	1 – 3" T		X	
HS4	47	"ML" 340+99	RT	CUSTOM	Scooter Ave	227	42	66.21	S	2 – 5" T	X		
HS5	48	"SA–2" 3203+97	RT	W13–2	EXIT 45 MPH	36	48	12.00	S	POPL	X		MOUNT TO POLE 28
HS5	49	"ML" 345+53	LT	W4–2R		48	48	16.00	N	1 – 3" T	X		

SHEET NO.	TOTAL SHEETS
HS18	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763331\00012_HS18_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:38 AM | LAYOUT | HS18 | DESIGNED | – | CHECKED | – | DRAFTED | –

STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS5	50	"BD–2" 5232+18	RT	D3–100	Brayton DR	24	8	2.67	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–1P	Brayton DR 9499 PRIVATE ROAD	36	16	8.00	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R	ONE WAY	36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1	STOP	36	36	9.00	E		X		
HS5	51	"SA–2" 3206+25	RT	W4–3R		48	48	16.00	S	1 – 3" T	X		
HS5	52	"SA–2" 3206+95	LT	E5–1	EXIT	72	60	30.00	S	1 – 4" T	X		
HS5	53	"SA–2" 3207+94	RT	R3–17	BIKE LANE	30	24	5.00	S	POPL		X	MOUNT TO POLE 30
HS5	54	"SA–3" 3309+23	RT	W4–3R		48	48	16.00	N	1 – 3" T	X		
HS5	55	"SA–2" 3212+18	RT	R3–17	BIKE LANE	30	24	5.00	S	POPL		X	MOUNT TO POLE 32
HS6	56	"SA–2" 3214+27	RT	W2–6		36	36	9.00	S	POPL	X		MOUNT TO POLE 33
				W13–1	15 MPH	24	24	4.00	S			X	MOUNT BELOW W2–6

SHEET NO.	TOTAL SHEETS
HS19	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
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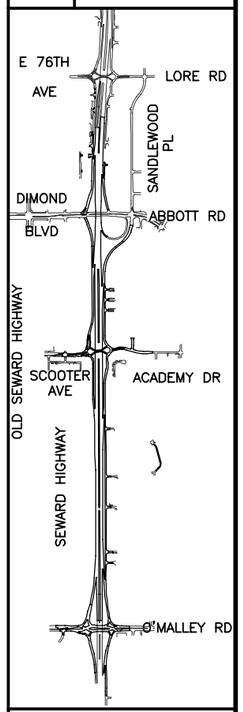
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

DATE/TIME 4/11/2022 2:39 AM | LAYOUT HS19 | DESIGNED – | CHECKED – | DRAFTED –

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763333\00012_HS19_SIGNSTRIPE.DWG

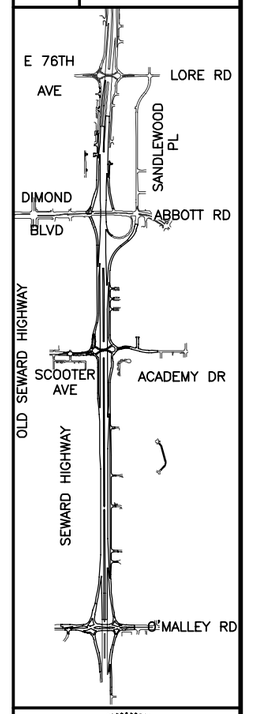
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS6	57	"SA–2" 3214+27	LT	W2–6		36	36	9.00	S	1 – 3" T	X		
				W13–1		24	24	4.00	S			X	MOUNT W13–1 BELOW W2–6
HS6	58	"SA–2" 3215+82	LT	CUSTOM		158	60	65.83	S	3 – 5" T	X		
HS6	59	"SA–2" 3216+43	RT	R3–17		30	24	5.00	S	POPL		X	
				R3–17B		30	12	2.50	S			X	MOUNT TO POLE 34 MOUNT BELOW R3–17
HS6	60	"SA–2" 3216+80	RT	R3–8SL/SR		36	30	7.50	S	1 – 3" T	X		
HS6	61	"SA–2" 3216+80	LT	R3–8SL/SR		36	30	7.50	S	1 – 3" T	X		
HS6	62	"SA–4" 3402+65	LT	R3–17		24	18	3.00	N	1 – 3" T		X	
				R3–17B		24	8	1.33	N			X	MOUNT R3–17B BELOW R3–17
HS6	63	"BD–3" 5303+03	RT	R3–17		30	24	5.00	S	1 – 3" T		X	
				R3–17A		30	12	2.50	S			X	MOUNT R3–17A BELOW R3–17
HS6	64	"SA–4" 3403+33	LT	W12–1		30	30	6.25	N	1 – 3" T		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING

SHEET NO.	TOTAL SHEETS
HS20	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS20_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:39 AM | LAYOUT | HS20 | DESIGNED | - | CHECKED | - | DRAFTED | -

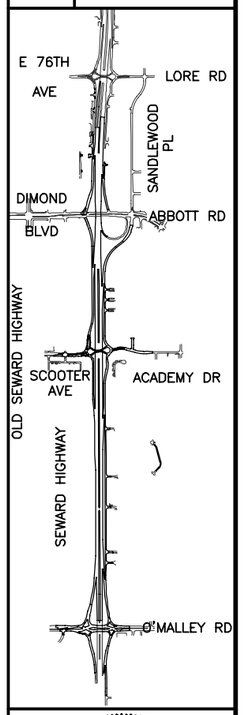
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS6	65	"BD–3" 5303+21	RT	W4–2R		36	36	9.00	S	1 – 3" T	X		
HS6	66	"SA–4" 3404+39	RT	R3–8SL/R		36	30	7.50	N	1 – 3" T	X		
HS6	67	"SA–4" 3404+39	LT	R3–8SL/R		36	30	7.50	N	1 – 3" T	X		
HS6	68	"SA–4" 3405+31	RT	CUSTOM		158	60	65.83	N	3 – 5" T	X		
HS6	69	"SA–4" 3407+66	RT	W2–6		36	36	9.00	N	1 – 3" T	X		MOUNT W13–1 BELOW W2–6
				W13–1		24	24	4.00	N			X	
HS6	70	"SA–4" 3407+66	LT	W2–6		36	36	9.00	N	1 – 3" T	X		MOUNT W13–1 BELOW W2–6
				W13–1		24	24	4.00	N			X	
HS6	71	"ML" 367+75	RT	CUSTOM		228	72	114.00	S	3 – 5" T	X		
HS7	72	"BD–3" 5308+07	LT	R6–1R		36	12	3.00	E	1 – 3" T	X		

SHEET NO.	TOTAL SHEETS
HS21	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS21_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:39 AM | LAYOUT | HS21 | DESIGNED | – | CHECKED | – | DRAFTED | –

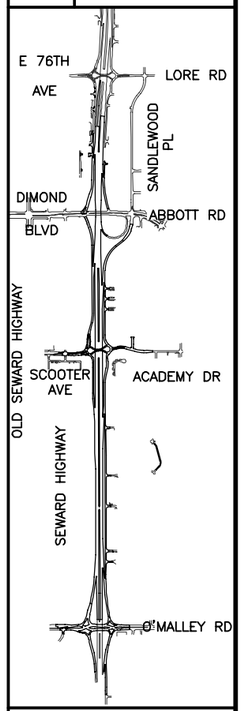
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS7	73	"BD–3" 5308+32	RT	D3–100	Brayton DR	24	8	2.67	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–1P	S Heather Meadows LP 1940 PRIVATE ROAD	72	16	16.00	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R	ONE WAY	36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1	STOP	36	36	9.00	E		X		
HS7	74	"BD–3" 5309+03	RT	R2–1	SPEED LIMIT 45	30	36	7.50	S	1 – 3" T		X	
HS7	75	"BD–3" 5310+06	LT	R6–1R	ONE WAY	36	12	3.00	E	1 – 3" T	X		
HS7	76	"BD–3" 5310+28	RT	D3–100	Brayton DR	24	8	2.67	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–1P	Moss Creek AVE 1940 PRIVATE ROAD	48	16	10.67	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R	ONE WAY	36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1	STOP	36	36	9.00	E		X		
HS7	77	"SA–4" 3411+19	LT	R2–1	SPEED LIMIT 45	30	36	7.50	N	POPL		X	MOUNT TO POLE 39
HS7	78	"BD–3" 5312+05	LT	R6–1R	ONE WAY	36	12	3.00	E	1 – 3" T	X		

SHEET NO.	TOTAL SHEETS
HS22	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS22_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:39 AM | LAYOUT | HS22 | DESIGNED | - | CHECKED | - | DRAFTED | -

STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS7	79	"BD–3" 5312+26	RT	D3–100	Brayton LP	24	8	2.67	E/W	1 – 2.5" PT	X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				D3–1P	Heather Meadows LP 1400 PRIVATE ROAD	72	16	16.00	N/S		X		TWO SIGNS BACK TO BACK, MOUNT ABOVE R6–1R
				R6–1R	ONE WAY	36	12	3.00	E		X		MOUNT ABOVE R1–1
				R1–1	STOP	36	36	9.00	E		X		
HS7	80	"DI–2" 4204+64	RT	W13–2	EXIT 40 MPH	36	48	12.00	S	1 – 4" T	X		
HS7	81	"SA–4" 3413+00	LT	R3–17	BIKE LANE	30	24	5.00	N	1 – 3" T		X	
HS7	82	"DI–2" 4205+28	LT	E5–1	EXIT	72	60	30.00	S	1 – 4" T	X		
HS7	83	"DI–4" 4207+63	RT	R3–17	BIKE LANE	30	24	5.00	S	POPL		X	MOUNT TO POLE 49
HS7	84	"SA–4" 3416+45	RT	E5–1	EXIT	72	60	30.00	N	1 – 4" T	X		
HS7	85	"SA–4" 3417+45	LT	W4–3R		36	36	9.00	N	1 – 3" T	X		
HS7	86	"SA–4" 3417+42	LT	R3–17	BIKE LANE	30	24	5.00	N	POPL		X	MOUNT TO POLE 42
HS7	87	"SA–4" 3419+64	LT	W13–2	EXIT 40 MPH	36	48	12.00	NE	POPL	X		MOUNT TO POLE 43

SHEET NO.	TOTAL SHEETS
HS23	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

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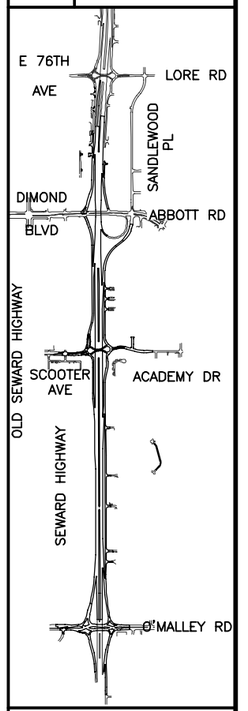
DATE	



STATE OF ALASKA
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SEWARD HIGHWAY:
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BLVD RECONSTRUCTION

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FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS23_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:39 AM | LAYOUT | HS23 | DESIGNED | - | CHECKED | - | DRAFTED | -

STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS7	88	"DI–2" 4212+68	RT	R3–17	BIKE LANE	30	24	5.00	SW	1 – 3" T		X	
HS7	89	"DI–2" 4212+17	LT	CUSTOM	← Dimond Blvd / Abbott Rd →	102	42	29.75	SW	2 – 3" T	X		
HS8	90	"HD–3" 6309+23	LT	R3–17	BIKE LANE	30	24	5.00	N	1 – 3" T		X	
HS8	91	"ML" 382+90	LT	CUSTOM	Scooter Ave →	227	42	66.21	N	2 – 5" T	X		
HS8	92	"ML" 383+25	RT	W4–3R		48	48	16.00	S	1 – 3" T	X		
HS8	93	"HD–3" 6311+00	RT	W4–2L		36	36	9.00	N	1 – 3" T	X		
HS8	94	"ML" 384+50	LT	D14–100	ADOPT A HIGHWAY / NAME NAME	30	24	5.00	N	1 – 3" T		X	OBTAIN CURRENT SPONSOR NAME FROM ALASKA DOT&PF PRIOR TO PLATE FABRIFACTION
						30	12	2.50	N			X	
HS8	95	"HD–3" 6312+28	LT	R3–17	BIKE LANE	30	24	5.00	N	1 – 3" T		X	MOUNT R3–17B BELOW R3–17
				R3–17A	AHEAD	30	12	2.50	N			X	
HS8	96	"DI–1" 4104+96	RT	R3–17	BIKE LANE	30	24	5.00	S	N/A		X	MOUNT TO EXISTING POST
HS8	97	"DI–4" 4406+22	LT	R3–17	BIKE LANE	30	24	5.00	N	POPL		X	MOUNT TO POLE 53

SHEET NO.	TOTAL SHEETS
HS24	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
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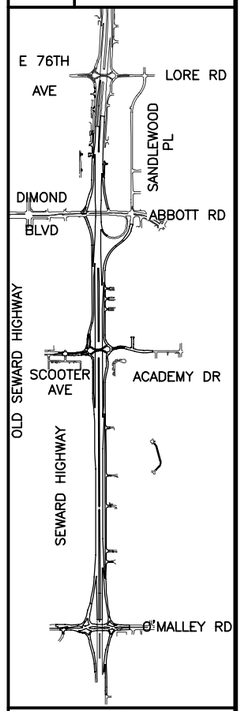
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655526\D0876333\00012_HS24_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 11:00 AM | LAYOUT | HS24 | DESIGNED | – | CHECKED | – | DRAFTED | –

STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS9	98	"DI–1" 4108+23	RT	R3–17	BIKE LANE	30	24	5.00	S	POPL		X	MOUNT TO POLE 59
HS9	99	"ML" 395+00	LT	CUSTOM	Scooter Ave NEXT RIGHT	186	66	85.25	N	3 – 5" T	X		
HS9	100	"DI–4" 4410+65	LT	R3–17	BIKE LANE	30	24	5.00	N	POPL		X	MOUNT TO POLE 55
HS9	101	"DI–4" 4411+31	RT	E5–1	EXIT	72	60	30.00	N	1 – 4" T	X		
HS9	102	"DI–4" 4411+90	LT	W4–3R		36	36	9.00	N	1 – 3" T	X		
HS9	103	"ML" 402+60	LT	R3–17	BIKE LANE	30	24	5.00	N	1 – 3" T		X	
HS10	104	"ML" 409+75	LT	W4–2R		48	48	16.00	N	1 – 4" T	X		
HS10	105	"ML" 410+76	LT	R3–17	BIKE LANE	30	24	5.00	N	POPL		X	MOUNT TO EXISTING POLE MOUNT BELOW R3–17
				R3–17A	ENDS	30	12	2.50	N			X	
HS10	106	"ML" 420+15	LT	CUSTOM	Dimond Blvd NEXT RIGHT	186	66	85.25	N	N/A	X		MOUNT TO EXISTING OVERHEAD CANTILEVER ARM
HS11	107	"DI–2" 4215+99	RT	R3–7R	ONLY ONLY	30	30	6.25	S	1 – 2.5" PT		X	
HS11	108	"DI–2" 4215+99	LT	R3–8L/L	ONLY ONLY	36	36	9.00	S	1 – 2.5" PT	X		

SHEET NO.	TOTAL SHEETS
HS25	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
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NO.	REVISION
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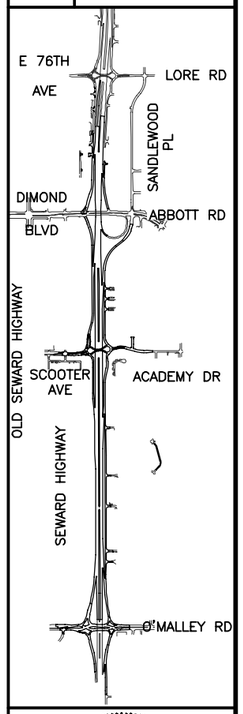
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS25_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:40 AM | LAYOUT | HS25 | DESIGNED | - | CHECKED | - | DRAFTED | -

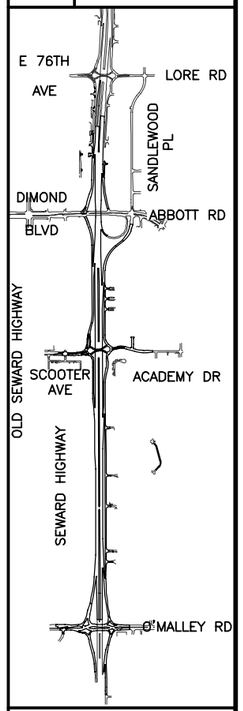
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS11	109	"DI–2" 4216+77	RT	R3–17	BIKE LANE	30	24	5.00	S	1 – 3" T		X	MOUNT R3–17B BELOW R3–17
				R3–17B	ENDS	30	12	2.50	S			X	
HS11	110	"DI–2" 4217+64	RT	R3–8S/R	ONLY ONLY	36	36	9.00	S	1 – 2.5" PT	X		MOUNT BEHIND R3–8S/R
				R5–1A	WRONG WAY	30	24	5.00	N			X	
HS11	111	"DI–2" 4217+64	LT	R3–8L/L	ONLY ONLY	36	36	9.00	S	1 – 2.5" PT	X		MOUNT BEHIND R3–8S/R
				R5–1A	WRONG WAY	36	24	6.00	N		X		
HS12	112	"HD–3" 6312+72	RT	R3–6L		30	36	7.50	N	N/A		X	MOUNT TO EXISTING SIGNAL MAST ARM SEE SHEET HC5
HS12	113	"DI–4" 4400+64	LT	D3–1	91 SOUTH Seward Hwy	174	24	29.00	E	2 – 3" T	X		MOUNT ON SIGNAL MASTARM, POLE P4 SEE SHEET HC5
				R6–2L	ONE WAY	24	30	5.00	E			X	
HS12	114	"DI–4" 4400+97	LT	W11–2		36	36	9.00	NE	1 – 3" T	X		MOUNT W16–7PR BELOW W11–2
				W16–7PR		30	18	3.75	NE			X	
HS12	115	"DI–4" 4402+38	RT	R3–8L/LS/R	ONLY ONLY	48	30	10.00	NE	1 – 3" T	X		

SHEET NO.	TOTAL SHEETS
HS26	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762-1500
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

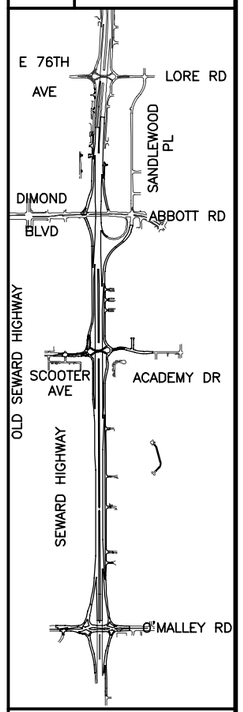
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS12	116	"DI–4" 4402+38	LT	R3–8L/LS/R		48	30	10.00	NE	1 – 3" T	X		
HS12	117	"DI–4" 4403+61	RT	R3–8L/LS/R		48	30	10.00	NE	1 – 3" T	X		
HS12	118	"DI–4" 4403+61	LT	R3–8L/LS/R		48	30	10.00	NE	1 – 3" T	X		
HS12	119	"DI–4" 4404+01	LT	R3–17		30	24	5.00	N	POPL		X	MOUNT R3–17B BELOW R3–17 MOUNT TO POLE 52
				R3–17B		30	12	2.50	N			X	
HS12	120	"DI–4" 4405+00	RT	CUSTOM		102	42	29.75	N	2 – 3" T	X		

SHEET NO.	TOTAL SHEETS
HS27	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

SIGN SALVAGE SUMMARY – 615.0006.0000

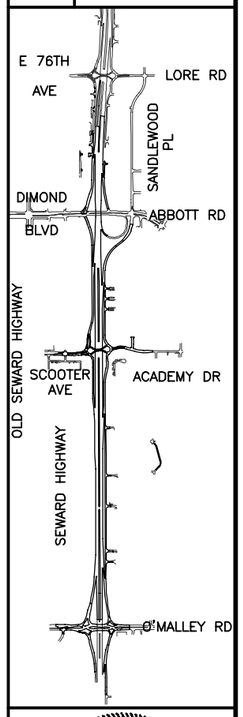
SHEET	STATION	OFFSET	REMARKS
HS01	"BD–1" 5101+44	LT	"O'MALLEY ROAD" "AIRPORT" (SYMBOL)
HS01	"BD–1" 5105+13	LT	"EXIT DIAGONAL RIGHT ARROW"
HS01	"OM–2" 2200+01	RT	"EXIT 40 MPH"
HS01	"BD–1" 5108+04	RT	"YIELD"
HS01	"OM–2" 2203+98	RT	"ALASKA ZOO 2"
HS01	"OM–2" 2204+10	LT	"AIRPORT" (SYMBOL) "LEFT ARROW"
HS02	"OM–2" 2204+97	RT	"RIGHT LANE MUST TURN RIGHT"
HS02	"OM–2" 2204+92	LT	"LEFT LANE MUST TURN RIGHT"
HS02	"ML" 305+22	LT	"ADOPT A HIGHWAY, R&M CONSULTANTS"
HS02	"OM–2" 2206+87	LT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS" "WRONG WAY"
HS02	"OM–4" 2403+37	RT	"LEFT LANE MUST TURN LEFT"
HS02	"OM–4" 2403+39	LT	"RIGHT LANE MUST TURN RIGHT"
HS02	"OM–4" 2405+14	LT	"LEFT ONLY, LEFT STRAIGHT RIGHT, RIGHT ONLY ARROWS"
HS02	"OM–4" 2406+43	LT	"LEFT ONLY, LEFT STRAIGHT RIGHT, RIGHT ONLY ARROWS" "END DOUBLE TRAFFIC FINES"
HS02	"OM–4" 2406+48	RT	"LEFT ONLY, LEFT STRAIGHT RIGHT, RIGHT ONLY ARROWS"
HS02	"OM–4" 2406+57	RT	"ALASKA ZOO 2"
HS02	"OM–4" 2406+56	LT	"AIRPORT" (SYMBOL)
HS02	"OM–1" 2109+40	RT	"SEWARD HWY NORTH"
HS02	"BD–2" 5201+76	RT	"BRAYTON DR RIGHT ARROW" "BIKE ROUTE" "RIGHT ARROW"
HS03	"ML" 317+00	RT	"ADOPT A HIGHWAY, PEPSI COLA BOTTLING CO."
HS03	"OM–4" 2410+38	RT	"EXIT DIAGONAL RIGHT ARROW"
HS03	"OM–4" 2410+40	LT	"EXIT 40 MPH"
HS03	"OM–1" 2112+14	LT	"PEDESTRIANS AND BICYCLES PROHIBITED"
HS03	"OM–1" 2112+73	RT	"DOUBLE ARROW" "PEDESTRIANS AND BICYCLES PROHIBITED"
HS03	"OM–1" 2113+18	LT	"MERGE" (SYMBOL)
HS03	"BD–2" 5206+74	RT	"SPEED LIMIT 45"
HS03	"OM–4" 2413+48	LT	"O'MALLEY ROAD"
HS03	"BD–2" 5208+04	LT	"ONE WAY"
HS03	"BD–2" 5208+23	RT	"BRAYTON DR" "THUJA AVE" (DOUBLE SIDED) "ONE WAY" "STOP"
HS03	"ML" 326+30	LT	"O'MALLEY ROAD" (OVERHEAD) "EXIT ONLY"
HS04	"BD–2" 5216+56	LT	"ONE WAY"
HS04	"BD–2" 5216+78	RT	"BRAYTON DR" "CEDRUS ST" "ONE WAY" "STOP"
HS04	"ML" 331+75	RT	"EMERGENCY PARKING ONLY"
HS04	"ML" 333+73	RT	"BUCKLE UP IT'S THE LAW"
HS04	"ML" 335+25	LT	"OBJECT MARKER"
HS04	"ML" 335+36	LT	"OBJECT MARKER"
HS04	"ML" 335+73	RT	"SPEED LIMIT 65"
HS04	"BD–2" 5222+47	LT	"ONE WAY"
HS04	"BD–2" 5222+66	RT	"9599 BRAYTON DR" "STOP"
HS04	"ML" 337+72	RT	"NORTH" "ALASKA STATE HIGHWAY 1"
HS04	"ML" 338+71	LT	"SOUTH" "ALASKA STATE HIGHWAY 1"
HS04	"ML" 340+71	LT	"SPEED LIMIT 65"
HS05	"ML" 342+70	LT	"AIRPORT" (SYMBOL)
HS05	"BD–2" 5231+59	LT	"ONE WAY"
HS05	"BD–2" 5231+81	RT	"9499 BRAYTON DR" "STOP"
HS05	"ML" 350+44	LT	"MERGE" (SYMBOL)
HS05	"SA–2" 3213+67	LT	"ONE WAY"
HS05	"SA–2" 3213+93	RT	"9499 BRAYTON DR" "STOP"
HS06	"ML" 355+71	RT	"DIMOND BLVD, ABBOTT RD, NEXT RIGHT"
HS06	"ML" 356+71	LT	"O'MALLEY RD" "NEXT EXIT"
HS06	"SA–4" 3405+27	RT	"EXIT 30 MPH"
HS06	"ML" 367+66	RT	"DIMOND BLVD, ABBOTT RD, DIAGONAL RIGHT ARROW"

SHEET NO.	TOTAL SHEETS
HS28	HS30
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SALVAGE SUMMARY TABLE

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D08763331\00012_HS28_SIGNSTRIPE.DWG | DATE/TIME 4/11/2022 2:40 AM | LAYOUT HS28 | DESIGNED - | CHECKED - | DRAFTED -

SIGN SALVAGE SUMMARY – 615.0006.0000

SHEET	STATION	OFFSET	REMARKS
HS06	"ML" 367+70	LT	"SCOOTER AVE RIGHT DIAGONAL ARROW"
HS06	"BD-3" 5307+63	RT	"ONE WAY"
HS06	"BD-3" 5307+74	LT	"ONE WAY"
HS07	"BD-3" 5308+01	RT	"S. HEATHER MEADOWS DR" "BRAYTON DR"
HS07	"BD-3" 5308+56	RT	"MERGE" (SYMBOL)
HS07	"BD-3" 5308+55	LT	"MERGE" (SYMBOL)
HS07	"BD-3" 5309+82	LT	"ONE WAY"
HS07	"BD-3" 5310+03	RT	"MOSS CREEK AVE" "BRAYTON DR" "ONE WAY" "STOP"
HS07	"DI-2" 4201+76	RT	"EXIT 40 MPH"
HS07	"ML" 370+70	LT	"SOUTH" "ALASKA STATE HIGHWAY 1"
HS07	"BD-3" 5311+61	RT	"SPEED LIMIT 20" "NO PARKING FIRE LANE"
HS07	"BD-3" 5311+79	LT	"ONE WAY" "MERGE" (SYMBOL)
HS07	"DI-2" 4203+20	LT	"EXIT, DIAGONAL RIGHT ARROW"
HS07	"BD-3" 5311+95	RT	"USE DIMOND BLVD" "NO PEDESTRIAN CROSSING"
HS07	"BD-3" 5311+98	RT	"N. HEATHER MEADOWS" "BRAYTON DR" "ONE WAY" "STOP"
HS07	"ML" 372+70	LT	"SPEED LIMIT 65"
HS07	"BD-3" 5313+82	RT	"YIELD"
HS07	"ML" 374+49	LT	"SCOOTER AVE NEXT RIGHT, O'MALLEY RD 1 MILE" (OVERHEAD)
HS07	"ML" 379+31	RT	"PLEASE BUCKLE UP" "IN MEMRY OF REBECCA TAFALE MUAI"
HS07	"DI-2" 4210+83	LT	"DIMOND BLVD LEFT ARROW, ABBOTT RD RIGHT ARROW"
HS07	"ML" 379+70	LT	"MERGE" (SYMBOL)
HS08	"HD-3" 6308+78	LT	"UNAUTHORIZED MOTOR VEHICLES PROHIBITED"
HS08	"ML" 382+63	RT	"ADDED LANE"
HS08	"HD-3" 6309+62	LT	"MERGE" (SYMBOL)
HS08	"ML" 384+21	LT	"ADOPT A HIGHWAY, PEPSI COLA BOTTLING CO."
HS08	"HD-3" 6311+79	LT	"PEDESTRIANS AND BICYCLES PROHIBITED"
HS08	"HD-3" 6311+80	RT	"PEDESTRIANS AND BICYCLES PROHIBITED"
HS08	"HD-3" 6312+27	LT	"BIKE ROUTE" "RIGHT ARROW"
HS08	"DI-4" 4400+28	LT	"LEFT TURN ONLY" (BACK TO BACK) "NO LEFT TURN" (BACK TO BACK)
HS08	"DI-4" 4400+92	LT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS" (BACK TO BACK) "DO NOT ENTER" (BACK TO BACK)
HS08	"DI-4" 4401+09	RT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS" (BACK TO BACK) "DO NOT ENTER" (BACK TO BACK)
HS08	"DI-4" 4401+62	LT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS" (BACK TO BACK) "WRONG WAY" (BACK TO BACK)
HS08	"DI-4" 4401+62	RT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS" (BACK TO BACK) "WRONG WAY" (BACK TO BACK)
HS08	"DI-4" 4403+70	RT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS"
HS08	"DI-4" 4403+63	LT	"DIMOND BLVD"
HS08	"DI-4" 4403+74	LT	"LEFT ONLY, LEFT STRAIGHT, RIGHT ONLY ARROWS"
HS08	"DI-4" 4404+71	RT	"DIMOND BLVD, ABBOTT RD LEFT ARROW"
HS08	"ML" 393+06	LT	"SCOOTER AVE 1/2 MILE"
HS08	"DI-4" 4407+56	LT	"YIELD"
HS08	"DI-1" 4107+17	LT	"ADDED LANE" "NO PEDESTRIANS AND BICYCLES"
HS08	"BD-4" 5402+24	RT	"DOUBLE ARROW" "NO PEDESTRIANS AND BICYCLES"
HS09	"DI-1" 4107+79	LT	"MERGE ARROW"
HS09	"DI-4" 4408+56	RT	"MERGE" (SYMBOL)
HS09	"BD-4" 5403+42	RT	"SPEED LIMIT 45 MPH"
HS09	"DI-4" 4409+25	RT	"END DOUBLE TRAFFIC FINES"
HS09	"DI-4" 4409+44	RT	"EXIT DIAGONAL RIGHT ARROW"
HS09	"DI-1" 4108+86	RT	POST ONLY
HS09	"DI-4" 4409+64	RT	"EXIT 40 MPH"
HS09	"BD-4" 5404+50	LT	"ONE WAY"
HS09	"BD-4" 5407+00	RT	"ADOPT A HIGHWAY"
HS09	"DI-4" 4412+79	LT	"MERGE" (SYMBOL)

SIGN SALVAGE SUMMARY – 615.0006.0000

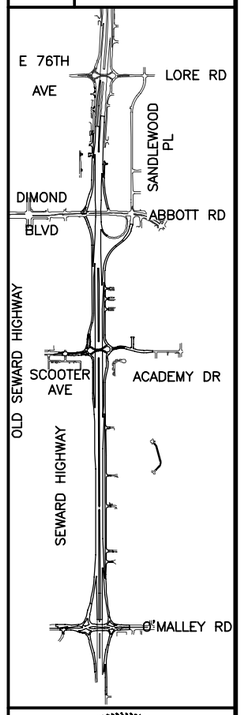
SHEET	STATION	OFFSET	REMARKS
HS09	"ML" 406+29	LT	"ONE WAY"
HS10	"ML" 407+03	LT	"LEFT LAND ENDS"
HS10	"ML" 408+23	LT	"EMERGENCY VEHICLE" (SYMBOL)
HS10	"ML" 409+13	LT	"ONE WAY"
HS11	"DI-2" 4217+04	LT	"STRAIGHT ONLY, RIGHT ONLY ARROWS" (BACK TO BACK) "WRONG WAY" (BACK TO BACK)
HS11	"DI-2" 4217+10	RT	"LEFT ONLY, LEFT ONLY ARROWS" (BACK TO BACK) "WRONG WAY" (BACK TO BACK)

SHEET NO.	TOTAL SHEETS
HS29	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SALVAGE SUMMARY TABLE

FILE [C:\PW_WORKDIR\DEN001\CH2MHILL_JC0665226\D0876333\00012_HS29_SIGNSTRIPE.DWG] DATE/TIME [4/11/2022 2:40 AM] LAYOUT [HS29] DESIGNED [-] CHECKED [-] DRAFTED [-]

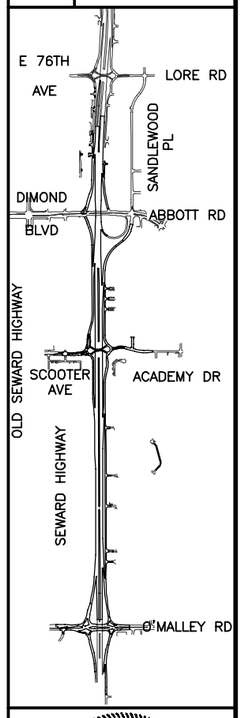
REMOVE AND RELOCATE SIGN – 615.0002.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS1	R1	"OM–2" 2204+00	RT	CUSTOM	Alaska Zoo 2 →	S	2 – 3" T	X		RELOCATE EXISTING SIGN FROM STA "OM–2" 2203+98 RT
HS2	R2	"OM–4" 2407+48	RT	CUSTOM	Alaska Zoo 2 →	N	2 – 3" T	X		RELOCATE EXISTING SIGN FROM STA "OM–4" 2406+55 RT
HS8	R3	"DI–1" 4106+80	LT	R5–10B	NO POSITIONS IN WHITE	S	1 – 3" T		X	RELOCATE EXISTING SIGN FROM STA "DI–1" 4107+17 LT
HS8	R4	"DI–1" 4107+15	RT	W12–1		S	1 – 3" T	X		MOUNT R5–10B BELOW W12–1
				R5–10B	NO POSITIONS IN WHITE	S			X	RELOCATE EXISTING SIGNS FROM STA "DI–1" 4107+16 RT
HS8	R5	"DI–1" 4107+31	LT	WR–1R		S	1 – 3" T	X		RELOCATE EXISTING SIGN FROM STA "DI–1" 4107+79 LT
HS9	R6	"BD–4" 5404+95	RT	R2–1	SPEED LIMIT 45	S	1 – 3" T		X	RELOCATE EXISTING SIGN FROM STA "BD–4" 5403+42 RT
HS9	R7	"ML" 401+89	LT	CUSTOM	Dimond Blvd EXIT ONLY	N	N/A	X		MOUNT TO OVERHEAD CANTILEVER ARM. MOUNT W13–2 BELOW CUSTOM SIGN.
				W13–2	EXIT 40 MPH	N	N/A	X		RELOCATE EXISTING CUSTOM SIGN FROM CANTILEVER STRUCTURE, STA "ML" 401+89 LT RELOCATE EXISTING W13–2 SIGN FROM STA "HD–4" 6400+75 RT

SHEET NO.	TOTAL SHEETS
HS30	HS30
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SALVAGE SUMMARY TABLE

FILE C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS30_SIGNSTRIPE.DWG | DATE/TIME 4/11/2022 2:41 AM | LAYOUT HS30 | DESIGNED – | CHECKED – | DRAFTED –

DATE/TIME	4/8/2022 12:29 PM
LAYOUT	HS101
DESIGNED	ZH
CHECKED	KK
DRAFTED	ZH

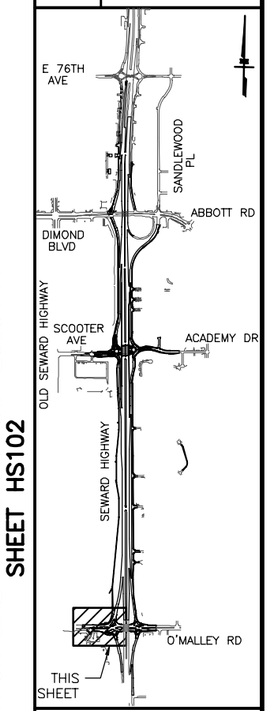
FILE: C:\DOWL_PW\D0391306\SC-CT-SG-HS-62153.DWG

SHEET NO.	TOTAL SHEETS
HS101	HS110
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY ROAD
"X-OM-EB"
STA 2602+15 TO 2609+41
SIGING & STRIPING

MATCH LINE "X-OM-EB" STA 2609+41 SHEET HS102

MATCH LINE "OM-4" STA 2402+33 SHEET HS02

MATCH LINE "OM-3" STA 2306+54 SHEET HS02

MATCH EXISTING STRIPING O'MALLEY ROAD STA "X-OM-WB" 2501+06.0

MATCH EXISTING STRIPING O'MALLEY ROAD STA "X-OM-WB" 2501+30.0

MATCH EXISTING STRIPING O'MALLEY ROAD STA "X-OM-EB" 2602+15.0

O'MALLEY CENTRE DRIVE

O'MALLEY ROAD

RAMP "OM-4"

RAMP "OM-3W"

RAMP "OM-3"

ROW

SHEET NO.	TOTAL SHEETS
HS102	HS110
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
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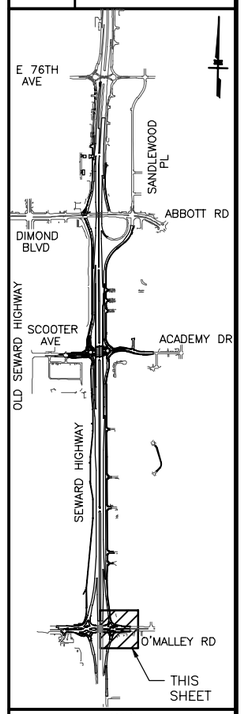
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

O'MALLEY ROAD
"X-OM-EB"
STA 2609+41 TO 2615+69
SIGING & STRIPING

DATE/TIME | 4/8/2022 12:29 PM | LAYOUT | HS102 | DESIGNED | ZH | CHECKED | KK | DRAFTED | ZH

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS103	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS101	121	"X-0M-EB" 2601+27	39.2'RT	CUSTOM SIGN 11	NORTH ALASKA 1 SOUTH / LEFT LANE / RIGHT LANE	96	54	36.00	W	2-3.0" T	X		
HS101	122	"X-0M-WB" 2502+82	RT	R6-1R	ONE WAY	36	12	3.00	S	1-3.0" T	X		
HS101	123	"X-0M-EB" 2603+04	RT	D3-101	O'Malley Rd 1200	36	8	2.00	N	1-2.5" PT	X		
				D3-101	O'Malley Rd 1200	36	8	2.00	S		X		
				D3-101	O'Malley Centre Dr 11000	60	12	5.00	E		X		
				D3-101	O'Malley Centre Dr 11000	60	12	5.00	W		X		
				R6-1R	ONE WAY	36	12	3.00	S		X		
				R1-1	STOP	36	36	9.00			X		
HS101	124	"X-0M-WB" 2504+37	RT	R3-5L	ONLY	30	36	7.50	E	1-2.5" PT		X	
HS101	125	"0M-3W" 2352+76	RT	W12-1		36	36	9.00	NW	1-3.0" T	X		
HS101	126	"X-0M-EB" 2605+27	LT	CUSTOM SIGN 1	5 NORTH Seward Hwy LEFT ONLY	132	96	88.00	W	N/A	X		MOUNT ON OVERHEAD STRUCTURE
			CL	CUSTOM SIGN 2	O'Malley Rd	216	60	90.00			X		
			RT	CUSTOM SIGN 3	1 SOUTH Seward Hwy	156	72	78.00			X		
HS101	127	"X-0M-WB" 2506+48	RT	R4-7		24	30	5.00	E	1-2.5" PT		X	
				R3-4		36	36	9.00	W		X		
HS101	128	"X-0M-WB" 2507+05	RT	R5-1	DO NOT ENTER	36	36	9.00	NE	N/A	X		MOUNT ON SIGNAL POLE 6
				R3-1		36	36	9.00	SW		X		

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SIGN SUMMARY TABLES

DATE/TIME 4/8/2022 12:53 PM | LAYOUT HS103 | DESIGNED ZH | CHECKED ZH | KK | DRAFTED ZH

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS104	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS101	129	"X-0M-EB" 2607+75	RT	R4-8		24	30	5.00	W	1-2.5" PT		X	
				R3-1		36	36	9.00	E		X		
HS101	130	"X-0M-WB" 2507+79	RT	R5-1		36	36	9.00	NW	N/A	X		MOUNT ON SIGNAL POLE 5
				R3-2		36	36	9.00	SE		X		
				R10-3EL		9	15	0.94	NW			X	MOUNT ABOVE PEDESTRIAN BUTTON
HS101	131	"0M-3W" 2351+68	RT	W11-2		36	36	9.00	NW	1-3.0" T	X		MOUNT W16-7PR UNDER W11-2 ON SAME POST
				W16-7PR		24	12	2.00				X	
HS101	132	"0M-3W" 2351+67	LT	W11-2		36	36	9.00	NW	1-3.0" T	X		MOUNT W16-7PL UNDER W11-2 ON SAME POST
				W16-7PL		24	12	2.00				X	
HS101	133	"0M-3" 2307+54	LT	W4-3R		36	36	9.00	NW	1-3.0" T	X		
HS101	134	"0M-3W" 2350+16	LT	R5-10B		30	18	3.75	NW	1-3.0" T		X	
HS101	135	"0M-3" 2306+74	RT	R5-10B		30	18	3.75	NW	1-3.0" T		X	
HS101	136	"0M-3" 2308+25	LT	W12-1		36	36	9.00	E	1-3.0" T	X		MOUNT 4' ABOVE FINISHED SURFACE TO BOTTOM OF SIGN
HS101	137	"0M-3" 2308+16	LT	CUSTOM SIGN 5		30	48	10.00	E	1-3.0" T		X	MOUNT 9.5' ABOVE FINISHED SURFACE TO BOTTOM OF SIGN
HS101	138	"0M-4W" 2450+22	LT	R6-1L		54	18	6.75	SE	1-3.0" T	X		
				R5-1		36	36	9.00	SW		X		
HS101	139	"0M-4W" 2450+35	LT	R10-3ER		9	15	0.94	SW	N/A		X	MOUNT ON SIGNAL POLE 8 MOUNT ABOVE PEDESTRIAN BUTTON

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLES

DATE/TIME 4/8/2022 12:53 PM | LAYOUT HS104 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS105	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS101	140	"OM-4" 2401+41	LT	W12-1		36	36	9.00	NE	1-3.0" T	X		
HS101	141	"OM-4W" 2452+57	LT	R3-8R/R		36	36	9.00	NE	1-2.5" PT	X		
				R5-10B		30	18	3.75	SW			X	
HS101	142	"OM-4" 2402+30	RT	R3-8L/L		36	36	9.00	NE	1-2.5" PT	X		
				R5-10B		30	18	3.75	SW			X	
HS101	143	"OM-4W" 2451+70	LT	R5-1A		36	24	6.00	SW	1-3.0" T	X		
HS101	144	"OM-4" 2401+49	RT	R5-1A		36	24	6.00	SE	N/A	X		MOUNT ON ELECTROLIER 106
HS101	145	"OM-4" 2400+48	RT	R6-1R		54	18	6.75	SW	1-3.0" T	X		
				R5-1		36	36	9.00	SE		X		
HS101	146	"X-OM-WB" 2505+92	RT	R6-2R		30	36	7.50	NE	N/A		X	MOUNT ON SIGNAL MASTARM, POLE 7
				D3-1		108	24	18.00			X		
				R10-110		30	36	7.50				X	MOUNT ON SIGNAL POLE 7
HS101	147	"X-OM-EB" 2607+61	LT	CUSTOM SIGN 4		84	48	28.00	SW	N/A	X		MOUNT ON SIGNAL MASTARM, POLE 2
				R3-5A		30	36	7.50				X	
				R3-5A		30	36	7.50				X	
				R3-5A		30	36	7.50				X	
				R10-3EL		9	15	0.94	NE			X	MOUNT ABOVE PEDESTRIAN BUTTON

DOWL, LLC
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ANCHORAGE, AK 99503
(907) 562-2000
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SIGN SUMMARY TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS106	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS101	148	"X-0M-WB" 2506+64	LT	R3-5A	↑ ONLY	30	36	7.50	SE	N/A		X	MOUNT ON SIGNAL MASTARM, POLE 1
				R3-5A	↑ ONLY	30	36	7.50				X	
				R10-3EL		9	15	0.94	SW			X	MOUNT ABOVE PEDESTRIAN BUTTON
HS101	149	"X-0M-EB" 2607+97	RT	D3-1	O'Malley Rd	108	24	18.00	NW	N/A	X		MOUNT ON SIGNAL MASTARM, POLE 4
				R6-2L	ONE WAY ←	30	36	7.50				X	
				R10-111	ON RED	30	36	7.50				X	MOUNT ON SGNAL POLE 4
				R10-3ER		9	15	0.94				X	MOUNT ABOVE PEDESTRIAN BUTTON
				R10-3EL		9	15	0.94	SW			X	MOUNT ABOVE PEDESTRIAN BUTTON
HS101	150	"X-0M-EB" 2609+31	CL	CUSTOM SIGN 2	O'Malley Rd	216	60	90.00	W	N/A	X		MOUNT OVERHEAD ON BRIDGE STRUCTURE
			LT	CUSTOM SIGN 1	NORTH Seward Hwy LEFT ONLY	132	96	88.00			X		
HS102	151	"X-0M-WB" 2510+36	CL	CUSTOM SIGN 2	O'Malley Rd	216	60	90.00	E	N/A	X		MOUNT OVERHEAD ON BRIDGE STRUCTURE
			RT	CUSTOM SIGN 7	SOUTH Seward Hwy LEFT LANE	126	84	73.50			X		
HS102	152	"0M-2" 2208+15	LT	R6-1R	ONE WAY →	54	18	6.75	NE	1-3.0" T	X		
				R5-1	DO NOT ENTER	36	36	9.00	NW		X		
HS102	153	"X-0M-WB" 2511+71	LT	R4-8		24	30	5.00	E	1-2.5" PT		X	
				R3-1		36	36	9.00	W		X		
HS102	154	"0M-2" 2207+43	LT	R5-1A	WRONG WAY	36	24	6.00	NW	1-3.0" T	X		

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLES

ZH | DRAFTED | KK | CHECKED | ZH | DESIGNED | HS106 | LAYOUT | 4/8/2022 12:53 PM | DATE/TIME
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS107	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS102	155	"0M-2E" 2250+66	RT	R5-1A	WRONG WAY	36	24	6.00	NE	1-3.0" T	X		
HS102	156	"0M-2E" 2250+53	LT	W12-1		36	36	9.00	SW	1-3.0" T	X		
HS102	157	"0M-1" 2101+44	RT	W12-1		36	36	9.00	W	1-3.0" T	X		MOUNT 4' ABOVE FINISHED SURFACE TO BOTTOM OF SIGN
HS102	158	"0M-1" 2101+56	RT	CUSTOM SIGN 9	NORTH	30	48	10.00	W	1-3.0" T		X	MOUNT 9.5' ABOVE FINISHED SURFACE TO BOTTOM OF SIGN
HS102	159	"X-0M-EB" 2611+73	LT	R5-1	DO NOT ENTER	36	36	9.00	SE	N/A	X		MOUNT ON SIGNAL POLE 1
				R3-2		36	36	9.00	NW		X		
				R10-3EL		9	15	0.94	SE			X	MOUNT ABOVE PEDESTRIAN BUTTON
HS102	160	"X-0M-WB" 2512+73	LT	R5-1	DO NOT ENTER	36	36	9.00	SW	N/A	X		MOUNT ON SIGNAL POLE 2
				R3-1		36	36	9.00	NE		X		
HS102	161	"X-0M-EB" 2612+94	LT	R4-7		24	30	5.00	W	1-2.5" PT		X	
				R3-4		36	36	9.00	E		X		
HS102	162	"0M-2E" 2251+53	RT	R6-1L	ONE WAY	54	18	6.75	NW	1-3.0" T	X		
				R5-1	DO NOT ENTER	36	36	9.00	NE		X		
HS102	163	"0M-2E" 2251+49	RT	R10-3ER		9	15	0.94	NE			X	MOUNT ON SIGNAL POLE 4 MOUNT ABOVE PEDESTRIAN BUTTON
HS102	164	"0M-1E" 2151+93	LT	W12-1		36	36	9.00	E	1-3.0" T	X		

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SIGN SUMMARY TABLES

DATE/TIME 4/8/2022 12:53 PM | LAYOUT | HS107 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS108	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS102	165	"X-OM-WB" 2514+17	LT	CUSTOM SIGN 6		138	96	92.00	E	N/A	X		MOUNT ON OVERHEAD STRUCTURE
			CL	CUSTOM SIGN 2		216	60	90.00			X		
			RT	CUSTOM SIGN 7		126	84	73.50			X		
HS102	166	"X-OM-EB" 2611+47	RT	D3-1		108	24	18.00	SE	N/A	X		MOUNT ON SIGNAL MASTARM, POLE 8
				R6-2L		30	36	7.50				X	
				R10-111		30	36	7.50				X	MOUNT ON SIGNAL POLE 8
				R10-3ER		9	15	0.94	SE			X	MOUNT ABOVE PEDESTRIAN BUTTON
				R10-3EL		9	15	0.94	NE			X	MOUNT ABOVE PEDESTRIAN BUTTON
HS102	167	"X-OM-WB" 2511+86	RT	CUSTOM SIGN 8		84	48	28.00	NE	N/A	X		MOUNT ON SIGNAL MASTARM, POLE 6
				R3-5A		30	36	7.50				X	
				R3-5A		30	36	7.50				X	
				R10-3EL		9	15	0.94	SW			X	MOUNT ABOVE PEDESTRIAN BUTTON
HS102	168	"X-OM-EB" 2612+66	RT	R3-5A		30	36	7.50	NW	N/A		X	MOUNT ON SIGNAL MASTARM, POLE 5
				R3-5A		30	36	7.50				X	
				R10-3EL		9	15	0.94	NE			X	MOUNT ABOVE PEDESTRIAN BUTTON

STATE OF ALASKA
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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SIGN SUMMARY TABLES

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS109	HS110

STANDARD SIGN - 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS102	169	"X-0M-EB" 2613+29	LT	R6-2R	ONE WAY	30	36	7.50	SW	N/A		X	MOUNT ON SIGNAL MASTARM, POLE 3
				D3-1	O'Malley Rd	108	24	18.00			X		
				R10-110	ON RED	30	36	7.50				X	
HS102	170	"0M-2E" 2250+03	RT	R3-5R	ONLY	30	36	7.50	SW	N/A		X	MOUNT ON ELECTROLIER 7
				R5-10B	NO PEDESTRIANS OR BICYCLES	30	18	3.75	NE			X	
HS102	171	"0M-2" 2206+93	LT	R3-5L	ONLY	30	36	7.50	SW	1-2.5" PT		X	
				R5-10B	NO PEDESTRIANS OR BICYCLES	30	18	3.75	NE			X	
HS102	172	APPROX. 223' DOWNSTREAM OF STA. "X-0M-WB" 2516+00	LT	CUSTOM SIGN 12	SOUTH ALASKA 1 NORTH / LEFT LANE / RIGHT LANE	96	54	36.00	E	2-3.0" T	X		

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLES

DATE/TIME 4/8/2022 12:53 PM | LAYOUT HS109 | DESIGNED ZH | CHECKED KK | DRAFTED ZH
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	HS110	HS110

SIGN SALVAGE SUMMARY - 615.0006.0000

STATION ALIGNMENT	CL REF	TYPE	LEGEND	REMARKS
"X-OM-EB" 2603+87	RT	D3-2	NEW SEWARD HWY	
"X-OM-EB" 2609+25	LT	OM1-1	REFLECTIVE MARKER	
"X-OM-EB" 2602+60	LT	R6-1R	ONE WAY	
"X-OM-EB" 2602+99	RT	R1-1	STOP	
		R6-1R	ONE WAY	
		D3-100	O'MALLEY RD	
		D3-100	O'MALLEY CENTRE DR	
"X-OM-EB" 2611+46	LT	R6-2R	ONE WAY	MOUNTED ON SIGNAL MASTARM
		D3-1	SEWARD HWY	
		R3-5R	MANDATORY MOVEMENT LANE CONTROL	
		R3-6L	MANDATORY MOVEMENT LANE CONTROL	
		R3-5L	MANDATORY MOVEMENT LANE CONTROL	
		D3-1	O'MALLEY RD	
		R9-3	NO PEDESTRIAN CROSSING SYMBOL	MOUNTED ON SIGNAL POLE
		R10-3ER	PUSH BUTTON COUNTDOWN EDUCATIONAL	MOUNTED ABOVE PED BUTTON
"X-OM-EB" 2611+95	LT	R10-3ER	PUSH BUTTON COUNTDOWN EDUCATIONAL	MOUNTED ABOVE PED BUTTON
		R10-3EL	PUSH BUTTON COUNTDOWN EDUCATIONAL	
"X-OM-WB" 2504+71	LT	R2-1	SPEED LIMIT 45 MPH	
"X-OM-WB" 2502+64	RT	R3-5L	MANDATORY MOVEMENT LANE CONTROL	
"X-OM-WB" 2509+28	RT	OM1-1	OBJECT MARKER	
"X-OM-WB" 2511+46	RT	R6-1L	ONE WAY	MOUNTED ON ELECTROLIER
		R6-1R	ONE WAY	
		R5-1	DO NOT ENTER	
"X-OM-WB" 2512+13	RT	R6-2L	ONE WAY	MOUNTED ON MASTARM
		D3-1	SEWARD HWY	
		R10-3EL	PUSH BUTTON COUNTDOWN EDUCATIONAL	MOUNTED ABOVE PED BUTTON
		R10-3ER	PUSH BUTTON COUNTDOWN EDUCATIONAL	
"X-OM-WB" 2507+95	RT	D3-1	SEWARD HWY SOUTH	MOUNTED ON MASTARM
		R6-2R	ONE WAY	
		R10-3ER	PUSH BUTTON COUNTDOWN EDUCATIONAL	MOUNTED ABOVE PED BUTTON
"X-OM-WB" 2507+44	RT	D3-1	O'MALLEY RD	MOUNTED ON MASTARM
		R3-5L	MANDATORY MOVEMENT	
		R3-8L/S/R	ADVANCE INTERSECTION LANE CONTROL	
		R6-1	ONE WAY	MOUNTED ON SIGNAL POLE
		R6-1	ONE WAY	
		R3-5R	RIGHT TURN ONLY	
		R10-3EL	PUSH BUTTON COUNTDOWN EDUCATIONAL	MOUNTED ABOVE PED BUTTON
		R10-3ER	PUSH BUTTON COUNTDOWN EDUCATIONAL	
"X-OM-WB" 2506+59	LT	R6-2L	ONE WAY	MOUNTED ON SIGNAL MASTARM
		D3-1	SEWARD HWY	
		D3-101	O'MALLEY RD	MOUNTED ON SIGNAL POLE
"X-OM-WB" 2509+20	RT	D14-100	ADOPT A HIGHWAY	
		D14-102	R&M CONSULTANTS	
"X-OM-WB" 2508+91	RT	D1-1	ANCHORAGE TURN LEFT	
"OM-3W" 2351+41	RT	R5-10B	NO PEDESTRIANS OR BICYCLES	
"OM-3" 2307+91	LT	R5-10B	NO PEDESTRIANS OR BICYCLES	
"OM-1" 2100+63	LT	D1-1	SEWARD	
"OM1-E" 2153+24	RT	W4-6	ENTERING ROADWAY ADDED LANE	
"OM1-E" 2153+12	LT	W4-6	ENTERING ROADWAY ADDED LANE	
"OM-2E" 2250+76	LT	R6-1	ONE WAY	
		R5-1	DO NOT ENTER	
"OM-2E" 2250+04	RT	R5-1A	WRONG WAY	
"OM-2" 2208+14	LT	R9-3	NO PEDESTRIAN CROSSING SYMBOL	
"OM-2" 2207+84	LT	R6-1	ONE WAY	
		R6-1	ONE WAY	
		R5-1	DO NOT ENTER	

SIGN SALVAGE SUMMARY - 615.0006.0000

STATION ALIGNMENT	CL REF	TYPE	LEGEND	REMARKS
"OM-4" 2400+43	RT	R6-1	ONE WAY	
		R5-1	DO NOT ENTER	
"OM-4" 2401+31	RT	R5-1A	WRONG WAY	
		R3-8L/LTR/R	ADVANCE INTERSECTION LANE CONTROL	
"OM-4W" 2451+50	LT	R5-1A	WRONG WAY	
		R3-8L/LTR/R	ADVANCED INTERSECTION LANE CONTROL	
"OM-4W" 2450+83	RT	R6-1	ONE WAY	
		R5-1	DO NOT ENTER	

REMOVE AND RELOCATE SIGN - 615.0002.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS102	R1	"OM-1E" 2152+34	LT	W11-2		SE	1-3.0" T	X		MOUNT W16-7PL UNDER W11-2 ON SAME POST
				W16-7PR					X	RELOCATE EXISTING SIGN FROM STA "OM-1E" 2152+55 LT
HS102	R2	"OM-1E" 2152+28	RT	W11-2		SE	1-3.0" T	X		MOUNT W16-7PL UNDER W11-2 ON SAME POST
				W16-7PL					X	RELOCATE EXISTING SIGN FROM STA "OM-1E" 2152+54 RT
HS102	R3	"OM-1E" 2153+25	LT	W4-3R		SE	1-3.0" T	X		RELOCATE EXISTING SIGN FROM STA "OM-1E" 2153+12 LT
HS102	R4	"OM-1E" 2150+07	RT	R3-7R		E	N/A	X		MOUNT ON ELECTROLIER 115 RELOCATE EXISTING SIGN FROM STA "OM-1E" 2150+67 RT
HS102	R5	"X-OM-EB" 2614+64	RT	D14-100		W	N/A		X	MOUNT ON ELECTROLIER 114. MOUNT R3-17 UNDER D14-100. RELOCATE EXISTING SIGN FROM ELECTROLIER S27, STA: "X-OM-EB" 2615+45 RT
				R3-17		W			X	
HS102	R6	APPROX. 115' DOWNSTREAM OF STA. "X-OM-EB" 2616+00	RT	W11-103		W	1-3.0" T	X		MOUNT W7-3AP UNDER W11-103 RELOCATE EXISTING SIGN FROM ELECTROLIER S26, STA: "X-OM-EB" 2613+71 RT
				W7-3AP					X	
HS102	R7	APPROX. 123' DOWNSTREAM OF STA. "X-OM-WB" 2516+00	LT	R3-7R		E	N/A	X		RELOCATE EXISTING SIGN MOUNTED ON EXISTING ELECTROLIER LOCATED APPROX. 217' DOWNSTREAM OF STA: "X-OM-WB" 2516+00 LT

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLES

ZH | DRAFTED | KK | CHECKED | ZH | DESIGNED | HS110 | LAYOUT | 4/8/2022 12:53 PM | DATE/TIME
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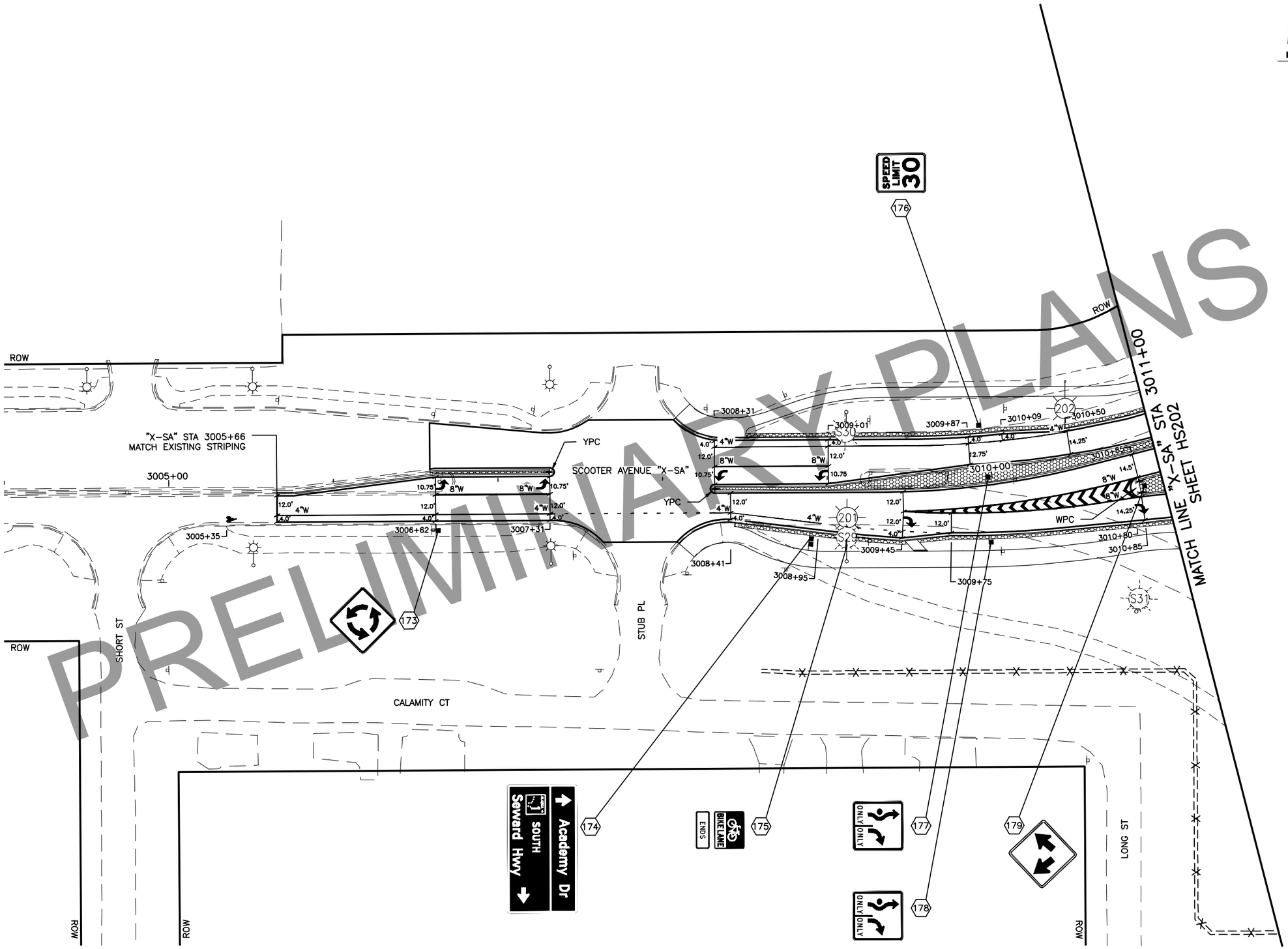
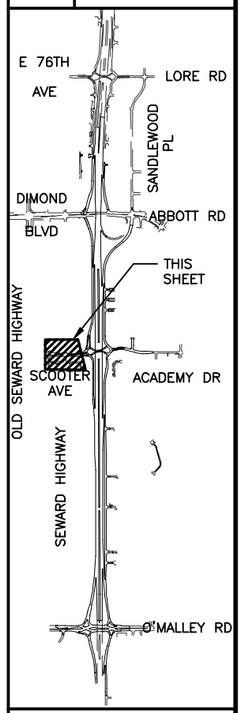


SHEET NO.	TOTAL SHEETS
HS201	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SCOOTER AVENUE "X–SA"
TRAFFIC
BOP TO 3011+00

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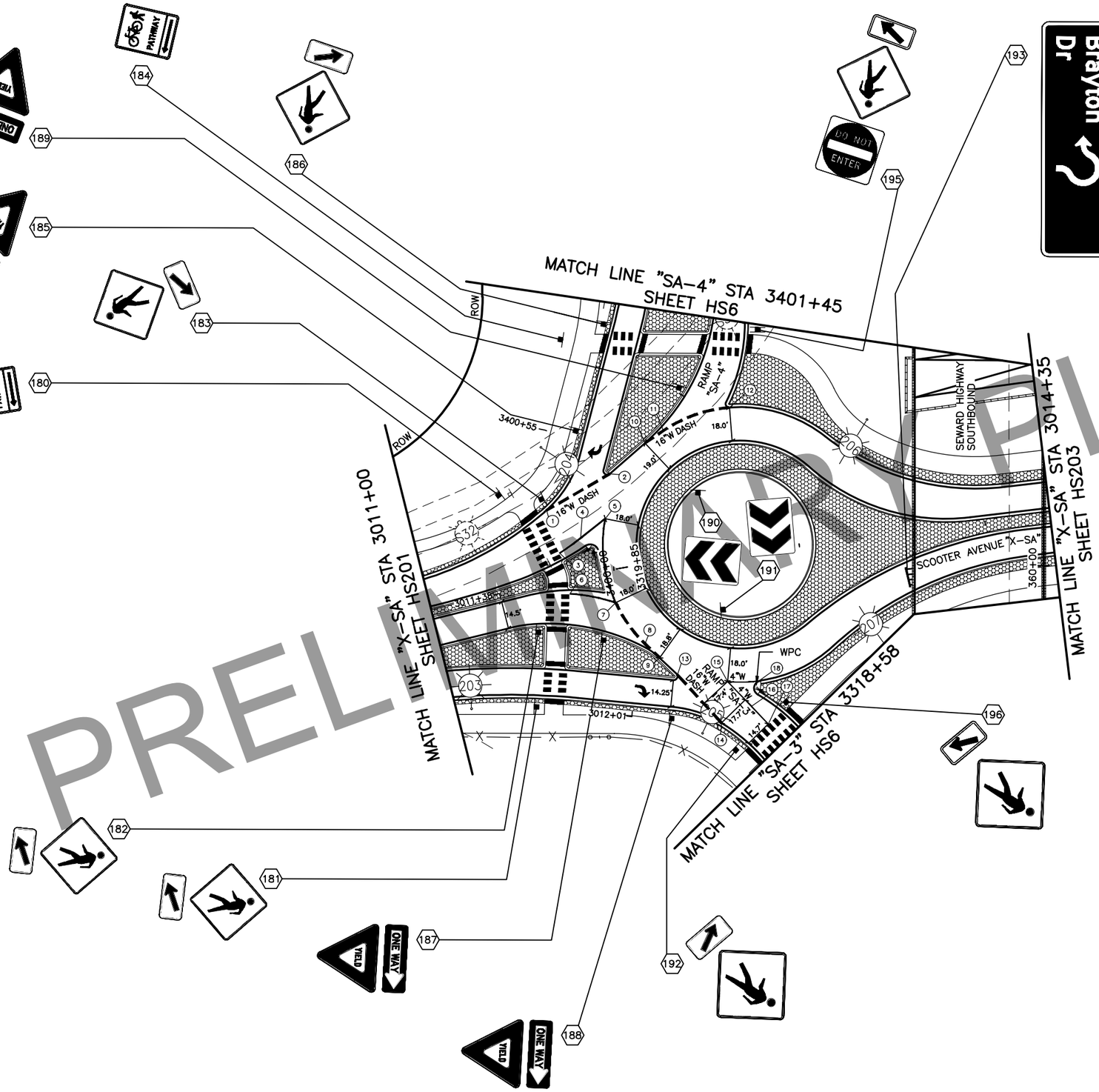


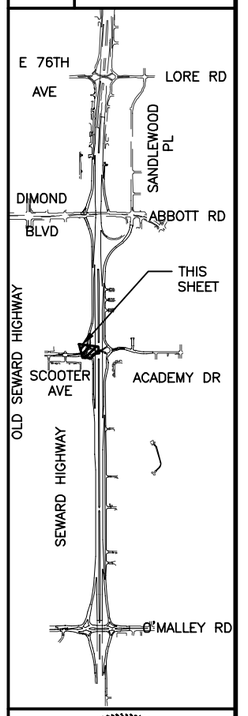
ROUNDABOUT STRIPING POINTS

POINT NO.	"X–SA" STA	OFFSET (FT)	DIRECTION
1	3011+72	38.4	LT
2	3012+06	51.3	LT
3	3011+74	14.6	LT
4	3011+86	20.3	LT
5	3012+00	28.1	LT
6	3011+74	7.6	RT
7	3011+98	17.2	RT
8	3012+11	41.4	RT
9	3012+18	49.9	RT
10	3012+25	65.0	LT
11	3012+35	70.4	LT
12	3012+72	78.4	LT
13	3012+27	60.2	RT
14	3012+48	88.4	RT
15	3012+53	66.9	RT
16	3012+65	81.6	RT
17	3012+72	91.9	RT
18	3012+70	68.5	RT

SHEET NO.	TOTAL SHEETS
HS202	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE/ ACADEMY DRIVE "X–SA" TRAFFIC
3011+00 TO 3014+35

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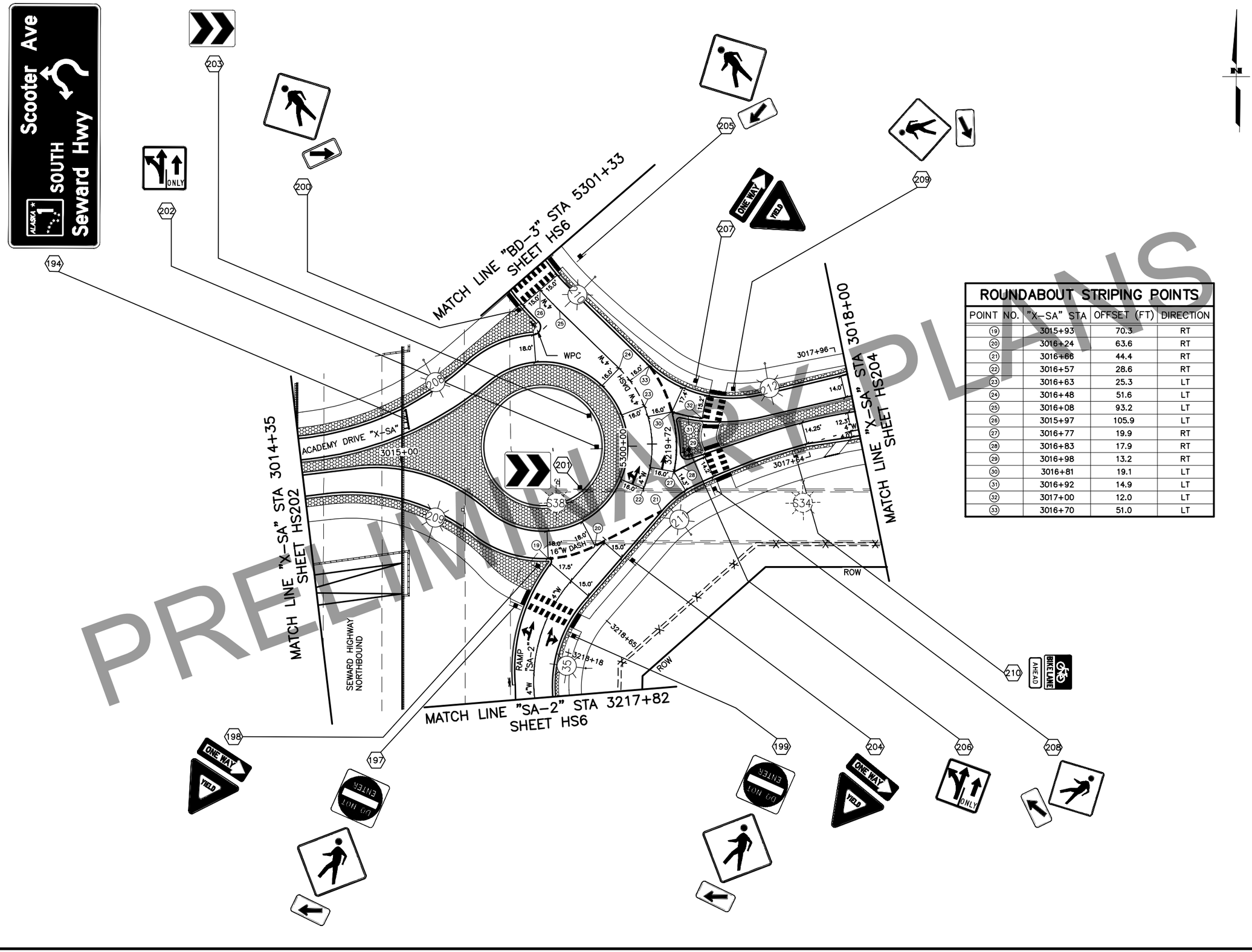


PRELIMINARY PLANS

ROUNDABOUT STRIPING POINTS

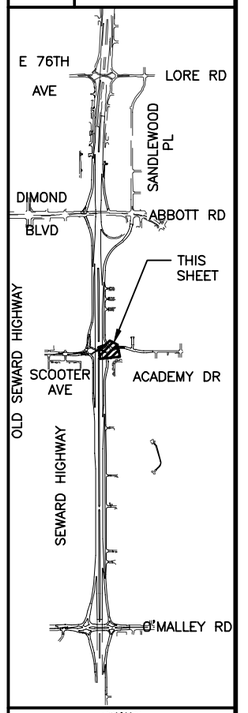
POINT NO.	"X-SA" STA	OFFSET (FT)	DIRECTION
19	3015+93	70.3	RT
20	3016+24	63.6	RT
21	3016+66	44.4	RT
22	3016+57	28.6	RT
23	3016+63	25.3	LT
24	3016+48	51.6	LT
25	3016+08	93.2	LT
26	3015+97	105.9	LT
27	3016+77	19.9	RT
28	3016+83	17.9	RT
29	3016+98	13.2	RT
30	3016+81	19.1	LT
31	3016+92	14.9	LT
32	3017+00	12.0	LT
33	3016+70	51.0	LT

SHEET NO.	TOTAL SHEETS
HS203	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION
SCOOTER AVENUE/ ACADEMY DRIVE "X-SA" TRAFFIC 3014+35 TO 3018+00

DATE/TIME | 4/11/2022 2:42 AM | LAYOUT | HS203 | DESIGNED | CHECKED | DRAFTED

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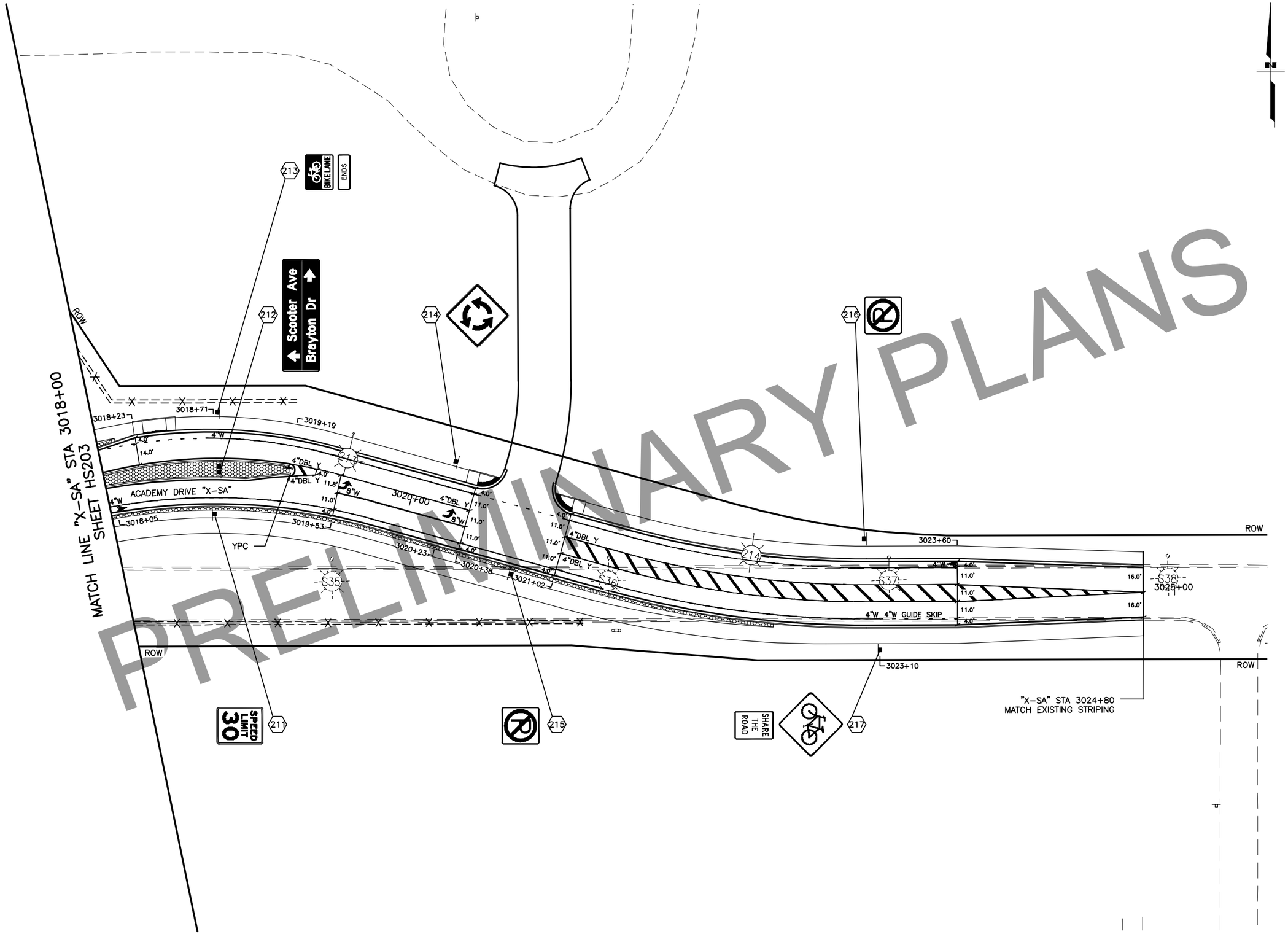
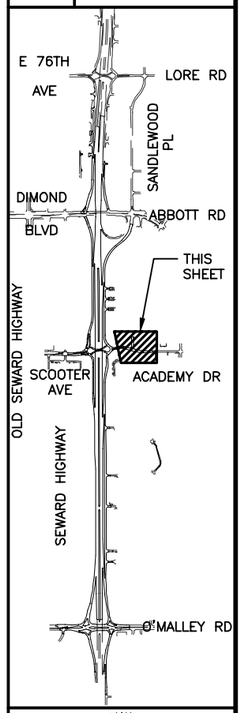


SHEET NO.	TOTAL SHEETS
HS204	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ACADEMY DRIVE "X-SA"
TRAFFIC
3018+00 TO EOP

DRAFTED | CHECKED | DESIGNED | HS204 | LAYOUT | 4/11/2022 2:43 AM | DATE/TIME

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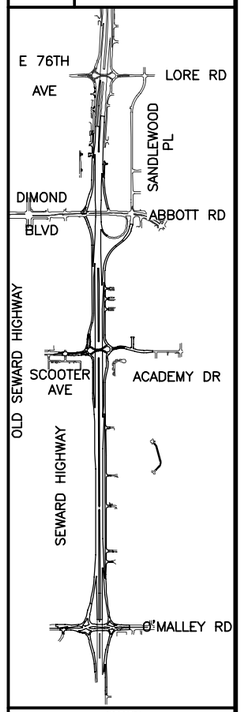
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS201	173	"X–SA" 3006+64	RT	W2–6		30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS201	174	"X–SA" 3008+91	RT	CUSTOM	Academy Dr / SOUTH / Seward Hwy	78	42	22.75	W	2 – 2.5" PT	X		MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS201	175	"X–SA" 3009+12	RT	R3–17	BIKE LANE	24	18	3.00	W	POPL		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT TO POLE 201 MOUNT R3–17B BELOW R3–17
				R3–17B	ENDS	24	8	1.33	W			X	
HS201	176	"X–SA" 3009+95	LT	R2–1	SPEED LIMIT 30	24	30	5.00	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS201	177	"X–SA" 3009+96	RT	R3–8S/R	ONLY ONLY	30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS201	178	"X–SA" 3009+98	RT	R3–8S/R	ONLY ONLY	30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS201	179	"X–SA" 3010+89	RT	W12–1		30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
HS202	180	"X–SA" 3011+50	LT	R9–101 CUSTOM	PATHWAY	24	30	5.00	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS202	181	"X–SA" 3011+42	RT	W11–2		30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	W			X	

SHEET NO.	TOTAL SHEETS
HS205	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE [C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655526\D0876333\00012_HS205_SIGNSTRIPE.DWG | DATE/TIME 4/11/2022 2:43 AM | LAYOUT HS205 | DESIGNED - | CHECKED - | DRAFTED -

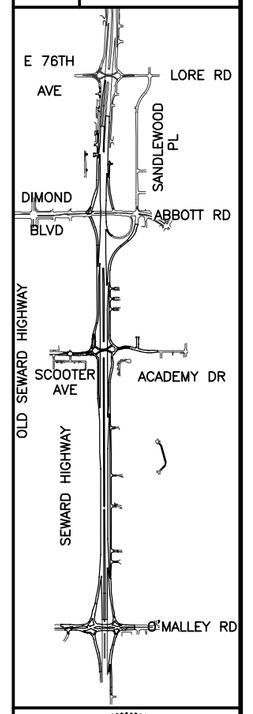
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS202	182	"X–SA" 3011+53	RT	W11–2		30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	W			X	
HS202	183	"X–SA" 3011+70	LT	W11–2		30	30	6.25	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	E			X	
HS202	184	"SA–4" 3400+94	LT	R9–101 CUSTOM		24	30	5.00	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS202	185	"SA–4" 3400+56	LT	R6–1R		36	12	3.00	N	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2		36	36	9.00	N		X		
HS202	186	"SA–4" 3401+20	LT	W11–2		30	30	6.25	N	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	N			X	
HS202	187	"X–SA" 3011+87	RT	R6–1R		36	12	3.00	W	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2		36	36	9.00	W		X		

SHEET NO.	TOTAL SHEETS
HS206	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

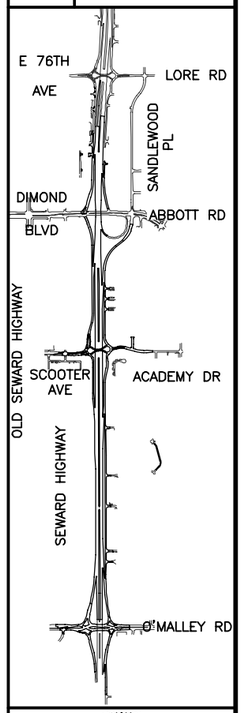
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS202	188	"X–SA" 3012+20	RT	R6–1R	ONE WAY	36	12	3.00	W	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2	YIELD	36	36	9.00	W		X		
HS202	189	"SA–4" 3401+03	LT	R6–1R	ONE WAY	36	12	3.00	N	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2	YIELD	36	36	9.00	N		X		
HS202	190	"X–SA" 3012+50	LT	R6–4		30	24	5.00	N	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS202	191	"X–SA" 3012+55	RT	R6–4		30	24	5.00	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS202	192	"SA–3" 3318+71	LT	W11–2		36	36	9.00	W	1 – 2.5" PT	X		MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	W			X	
HS202	195	"SA–4" 3401+43	RT	R5–1	ONE WAY	30	30	12.50	S	1 – 2.5" PT		X	MOUNT R5–1 BEHIND W11–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PR BELOW W11–2
				W11–2		30	30	12.50	N			X	
				W16–7PR		24	12	2.00	N			X	

SHEET NO.	TOTAL SHEETS
HS207	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS207_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:44 AM | LAYOUT | HS207 | DESIGNED | - | CHECKED | - | DRAFTED | -

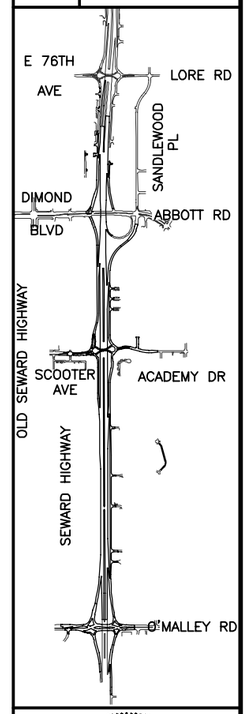
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS202	196	"SA–3" 3318+71	RT	W11–2		36	36	9.00	W	1 – 2.5" PT	X		MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PR BELOW W11–2
				W16–7PR		24	12	2.00	W			X	
HS202	193	"X–SA" 3013+56	RT	CUSTOM		126	60	52.50	W	N/A	X		MOUNT TO BRIDGE, SEE BRIDGE SHEETS
HS203	194	"X–SA" 3015+05	LT	CUSTOM		160	60	66.67	E	N/A	X		MOUNT TO BRIDGE, SEE BRIDGE SHEETS
HS203	197	"SA–2" 3218+35	LT	R5–1		30	30	12.50	N	1 – 2.5" PT		X	MOUNT R5–1 BEHIND W11–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PR BELOW W11–2
				W11–2		36	36	18.00	S		X		
				W16–7PR		24	12	2.00	S			X	
HS203	198	"SA–2" 3218+59	LT	R6–1R		36	12	3.00	S	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2		36	36	9.00	S		X		
HS203	199	"SA–2" 3218+31	RT	R5–1		30	30	12.50	N	1 – 2.5" PT		X	MOUNT R5–1 BEHIND W11–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W11–2		36	36	18.00	S		X		
				W16–7PL		24	12	2.00	S			X	

SHEET NO.	TOTAL SHEETS
HS208	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

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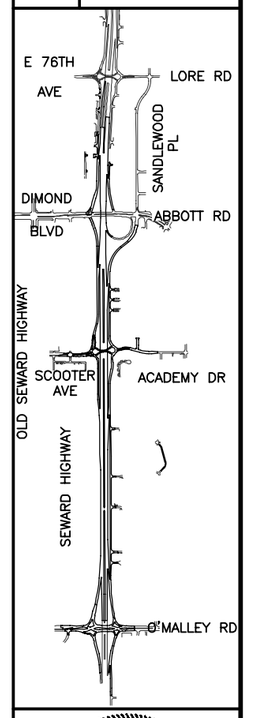
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS203	200	"BD–3" 5301+20	LT	W11–2		36	36	9.00	S	1 – 2.5" PT	X		MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PR BELOW W11–2
				W16–7PR		24	12	2.00	S			X	
HS203	201	"X–SA" 3016+16	RT	R6–4		30	24	5.00	S	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS203	202	"X–SA" 3016+29	LT	R3–8SL/S		30	30	6.25	S	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS203	203	"X–SA" 3016+25	LT	R6–4		30	24	5.00	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS203	204	"SA–2" 3219+01	RT	R6–1R		36	12	3.00	S	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2		36	36	9.00	S		X		
HS203	205	"BD–3" 5301+20	RT	W11–2		36	36	9.00	S	1 – 2.5" PT	X		MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	S			X	
HS203	206	"X–SA" 3016+88	RT	R3–8SL/S		30	30	6.25	S	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS203	207	"X–SA" 3017+02	LT	R6–1R		36	12	3.00	E	1 – 2.5" PT	X		MOUNT R6–1R ABOVE R1–2 MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING
				R1–2		36	36	9.00	E		X		

SHEET NO.	TOTAL SHEETS
HS209	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

STANDARD SIGN – 615.0001.0000

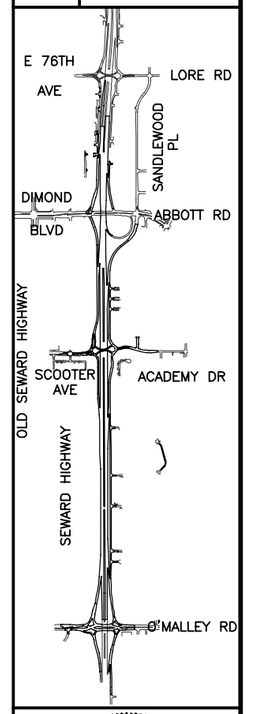
SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS203	208	"X–SA" 3017+00	RT	W11–2		30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	W			X	
HS203	209	"X–SA" 3017+25	LT	W11–2		30	30	6.25	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–7PL BELOW W11–2
				W16–7PL		24	12	2.00	E			X	
HS203	210	"X–SA" 3017+55	RT	R3–17		24	18	3.00	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT R3–17A BELOW R3–17
				R3–17A		24	8	1.33	W			X	
HS204	211	"X–SA" 3018+72	RT	R2–1		24	30	5.00	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS204	212	"X–SA" 3018+76	RT	CUSTOM		72	24	12.00	E	2 – 2.5" PT	X		MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS204	213	"X–SA" 3018+73	LT	R3–17		24	18	3.00	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT R3–17B BELOW R3–17
				R3–17B		24	8	1.33	E			X	
HS204	214	"X–SA" 3020+22	LT	W2–6		30	30	6.25	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS204	215	"X–SA" 3020+75	RT	R8–3		24	24	4.00	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING

SHEET NO.	TOTAL SHEETS
HS210	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS210_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:44 AM | LAYOUT | HS210 | DESIGNED | – | CHECKED | – | DRAFTED | –

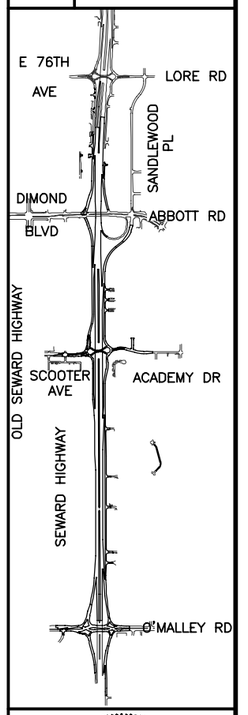
STANDARD SIGN – 615.0001.0000

SHEET NO.	SIGN NO.	STATION ALIGNMENT	CL REF	TYPE	LEGEND	SIZE (IN) WIDTH	SIZE (IN) HEIGHT	AREA (SQ FT)	SIGN FACES	POST NO., SIZE, & TYPE	FRAMED? YES	FRAMED? NO	REMARKS
HS204	216	"X–SA" 3023+00	LT	R8–3		24	24	4.00	E	1 – 2.5" PT		X	MANUFACTURE SIGN PANEL WITH TYPE IX SHEETING
HS204	217	"X–SA" 3023+10	RT	W11–1		30	30	6.25	W	1 – 2.5" PT		X	MANUFACTURE SIGN PANELS WITH TYPE IX SHEETING MOUNT W16–1P BELOW W11–1
				W16–1P		18	24	3.00	W			X	

SHEET NO.	TOTAL SHEETS
HS211	HS212
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SIGN SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC065526\D0876333\00012_HS211_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:44 AM | LAYOUT | HS211 | DESIGNED | – | CHECKED | – | DRAFTED | –

SIGN SALVAGE SUMMARY – 615.0006.0000

SHEET	STATION	OFFSET	REMARKS
HS201	"SA" 3006+61	RT	"BEGIN" "TWO WAY LEFT TURN ONLY"
HS201	"SA" 3006+61	LT	"END" "TWO WAY LEFT TURN ONLY"
HS201	"SA" 3006+64	RT	"U-TURN PROHIBITED" (BACK TO BACK) "KEEP RIGHT" (BACK TO BACK)
HS201	"SA" 3007+21	LT	"SPEED LIMIT 30"
HS201	"SA" 3008+26	LT	"PEDESTRIAN" (SYMBOL) "DIAGONAL LEFT ARROW"
HS201	"SA" 3009+26	RT	"KEEP RIGHT"
HS201	"SA" 3008+75	LT	"NO MOTOR VEHICLES"
HS201	"SA" 3008+75	RT	"NO MOTOR VEHICLES"
HS201	"SA" 3009+25	LT	"TWO-WAY LEFT TURN ONLY"
HS201	"SA" 3009+25	RT	"END" "TWO-WAY LEFT TURN ONLY"
HS201	"SA" 3010+02	RT	"PEDESTRIANS AND BIYCYCLES PROHIBITED"
HS201	"SA" 3010+13	LT	"DO NOT ENTER"
HS201	"SA" 3010+14	RT	"PEDESTRIANS AND BICYCLES PROHIBITED" "DO NOT ENTER"
HS202	"SA" 3011+56	LT	"PEDESTRIAN" (SYMBOL)
HS202	"SA" 3011+66	LT	"PEDESTRIAN" (SYMBOL)
HS203	"SA" 3015+38	RT	"ONE WAY"
HS203	"SA" 3015+39	RT	"ONE WAY"
HS203	"SA" 3016+02	RT	"ONE WAY" "ACADEMY DR" "BRAYTON DR" "STOP"

SHEET NO.	TOTAL SHEETS
HS212	HS212
STATE	YEAR
ALASKA	2022

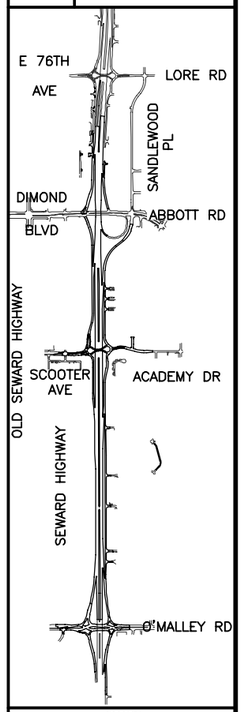
PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	

NO.	REVISION
DATE	

NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

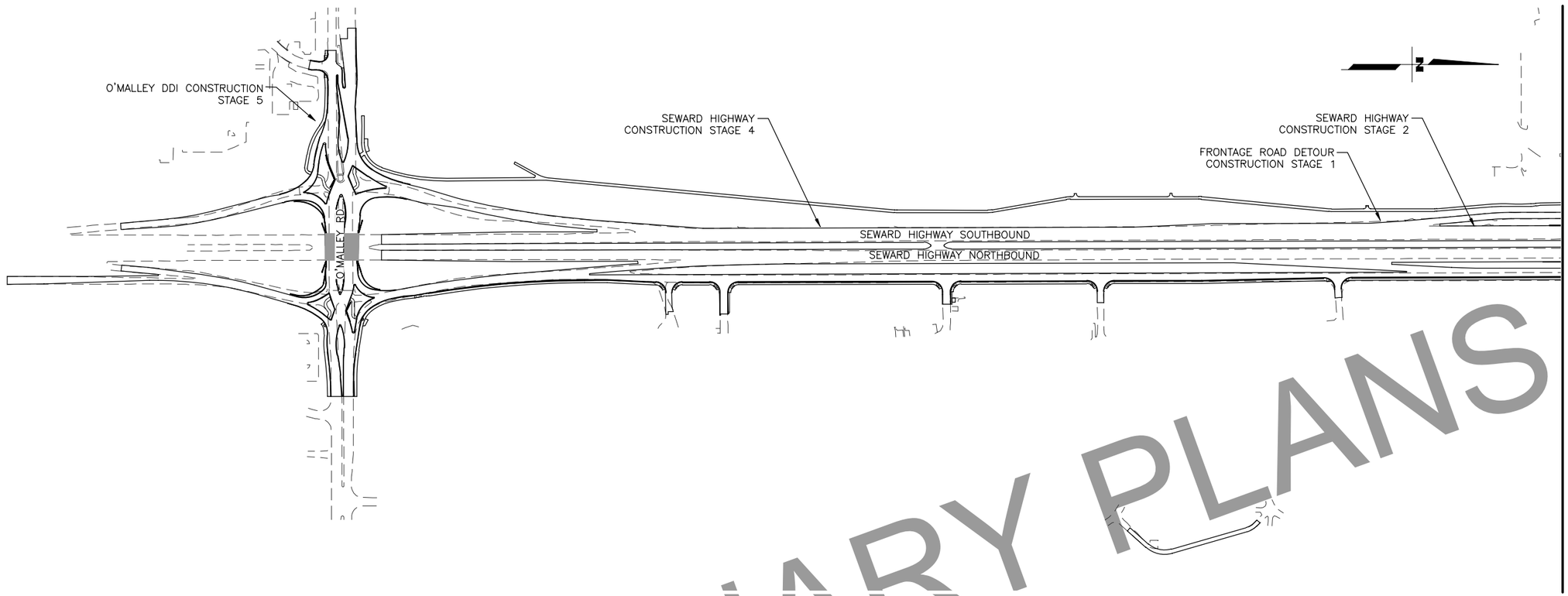
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

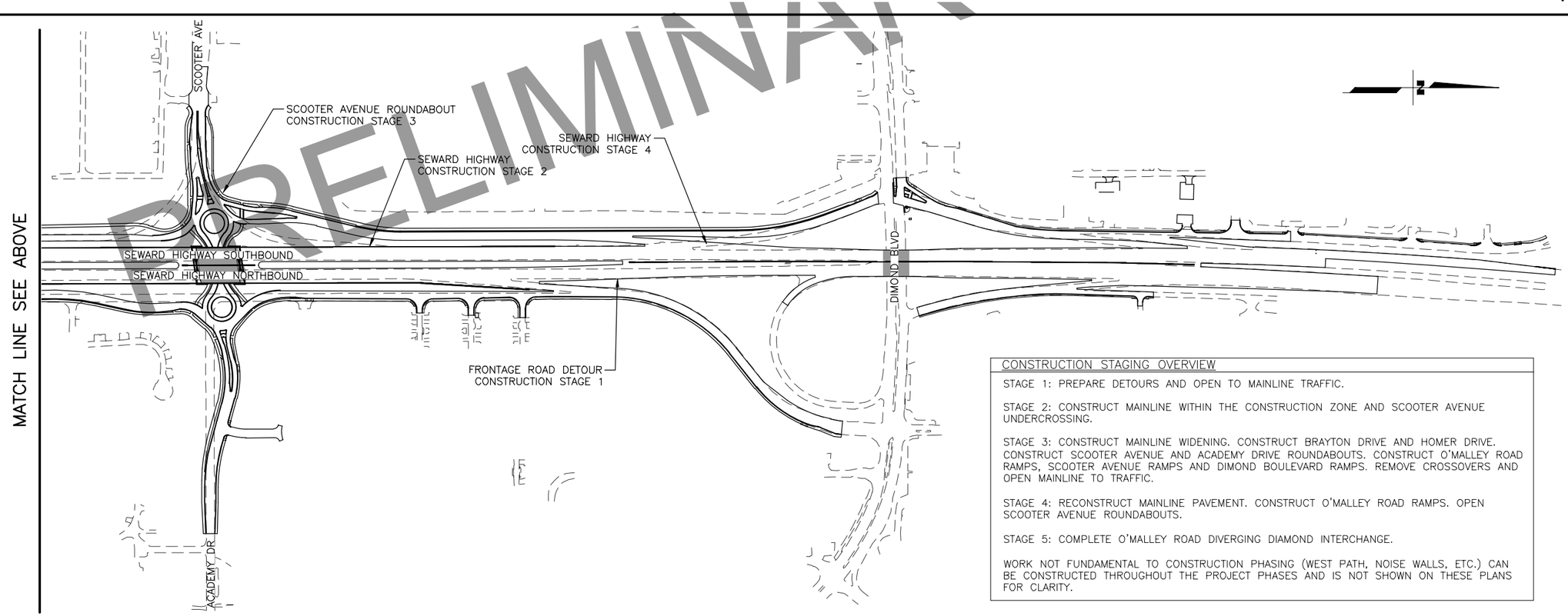
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

SALVAGE SUMMARY TABLE

FILE | C:\PW_WORKDIR\DEN001\CH2MHILL_JC0655526\D0876333\000012_HS212_SIGNSTRIPE.DWG | DATE/TIME | 4/11/2022 2:45 AM | LAYOUT | HS212 | DESIGNED | - | CHECKED | - | DRAFTED | -





CONSTRUCTION STAGING OVERVIEW

STAGE 1: PREPARE DETOURS AND OPEN TO MAINLINE TRAFFIC.

STAGE 2: CONSTRUCT MAINLINE WITHIN THE CONSTRUCTION ZONE AND SCOOTER AVENUE UNDERCROSSING.

STAGE 3: CONSTRUCT MAINLINE WIDENING. CONSTRUCT BRAYTON DRIVE AND HOMER DRIVE. CONSTRUCT SCOOTER AVENUE AND ACADEMY DRIVE ROUNDABOUTS. CONSTRUCT O'MALLEY ROAD RAMPS, SCOOTER AVENUE RAMPS AND DIMOND BOULEVARD RAMPS. REMOVE CROSSOVERS AND OPEN MAINLINE TO TRAFFIC.

STAGE 4: RECONSTRUCT MAINLINE PAVEMENT. CONSTRUCT O'MALLEY ROAD RAMPS. OPEN SCOOTER AVENUE ROUNDABOUTS.

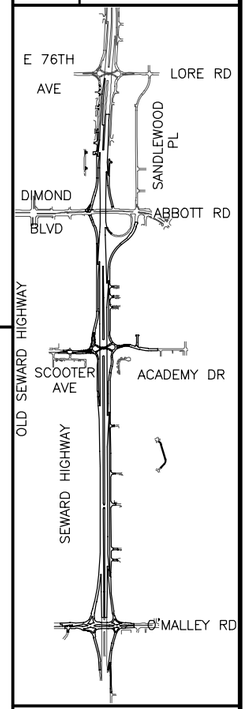
STAGE 5: COMPLETE O'MALLEY ROAD DIVERGING DIAMOND INTERCHANGE.

WORK NOT FUNDAMENTAL TO CONSTRUCTION PHASING (WEST PATH, NOISE WALLS, ETC.) CAN BE CONSTRUCTED THROUGHOUT THE PROJECT PHASES AND IS NOT SHOWN ON THESE PLANS FOR CLARITY.

SHEET NO.	TOTAL SHEETS
J1	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN OVERVIEW

DATE/TIME 4/5/2022 11:06 PM | LAYOUT J1 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK053776\D1233082\00012_J1.DWG

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/5/2022 11:07 PM	J2	JM	MR	RM

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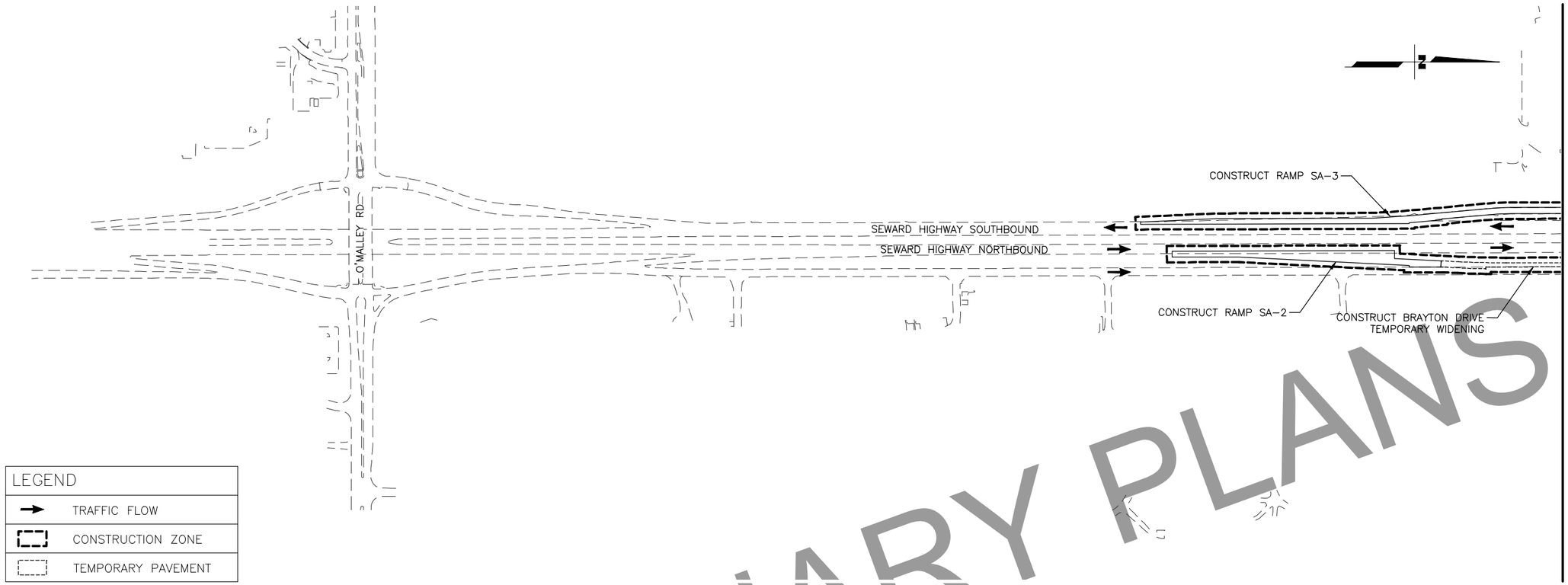
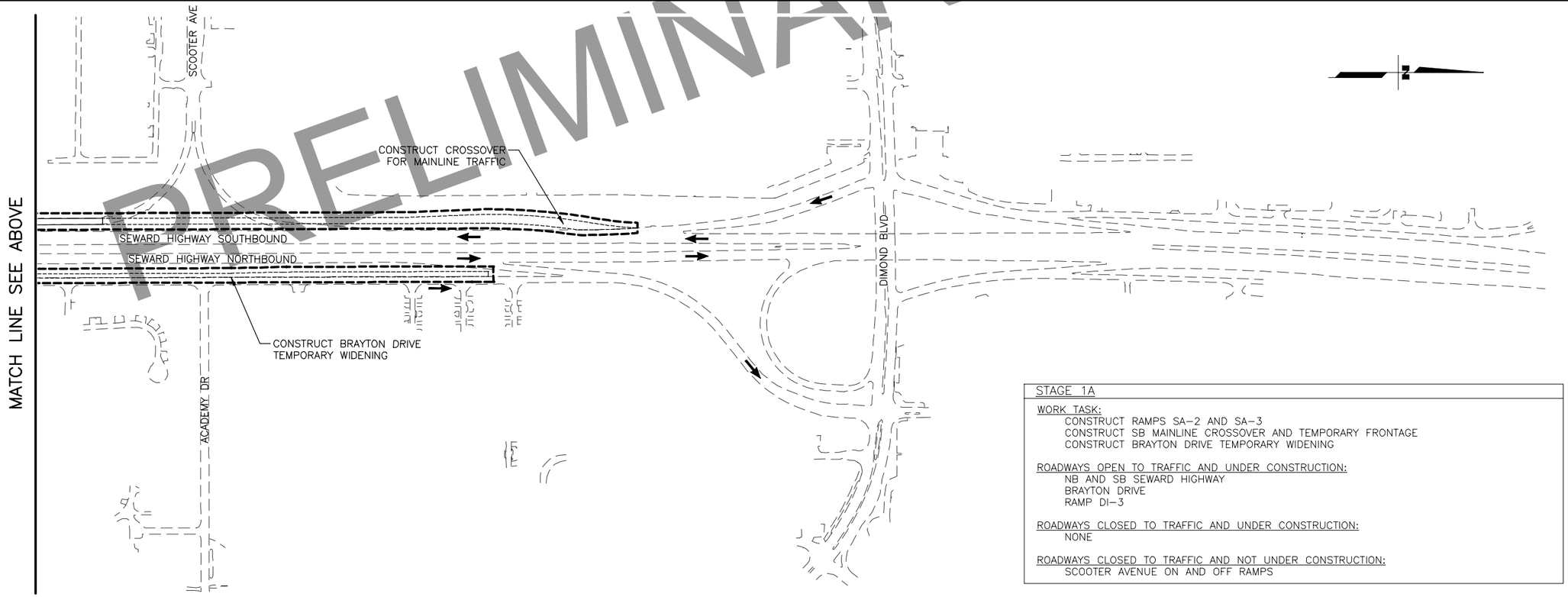


LEGEND

- TRAFFIC FLOW
- CONSTRUCTION ZONE
- TEMPORARY PAVEMENT



STAGE 1A

WORK TASK:
- CONSTRUCT RAMPS SA-2 AND SA-3
- CONSTRUCT SB MAINLINE CROSSOVER AND TEMPORARY FRONTAGE
- CONSTRUCT BRAYTON DRIVE TEMPORARY WIDENING

ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
- NB AND SB SEWARD HIGHWAY
- BRAYTON DRIVE
- RAMP DI-3

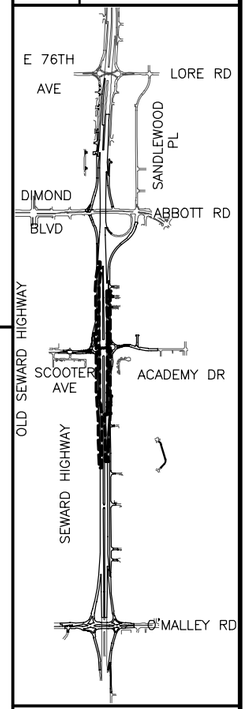
ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
- NONE

ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
- SCOOTER AVENUE ON AND OFF RAMPS

SHEET NO.	TOTAL SHEETS
J2	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN STAGE 1A

SHEET NO.	TOTAL SHEETS
J3	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

DATE/TIME 4/5/2022 11:07 PM | LAYOUT J3 | DESIGNED JM | CHECKED MR | DRAFTED RM

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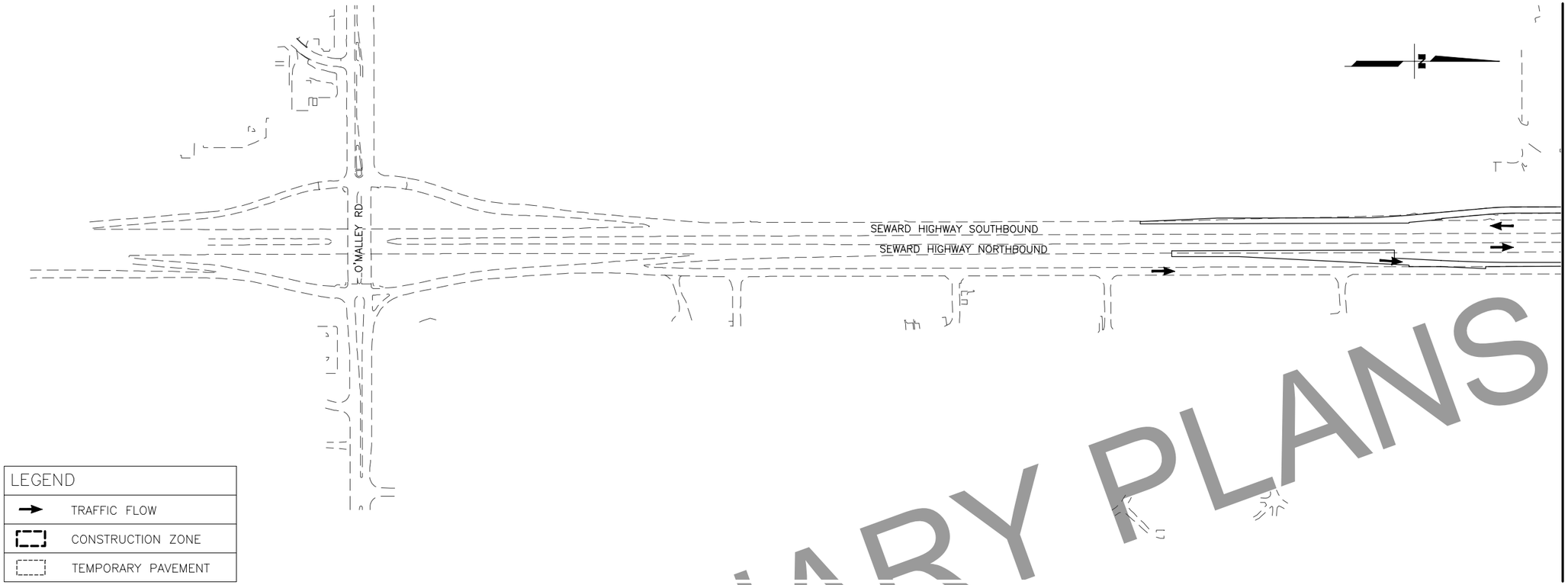
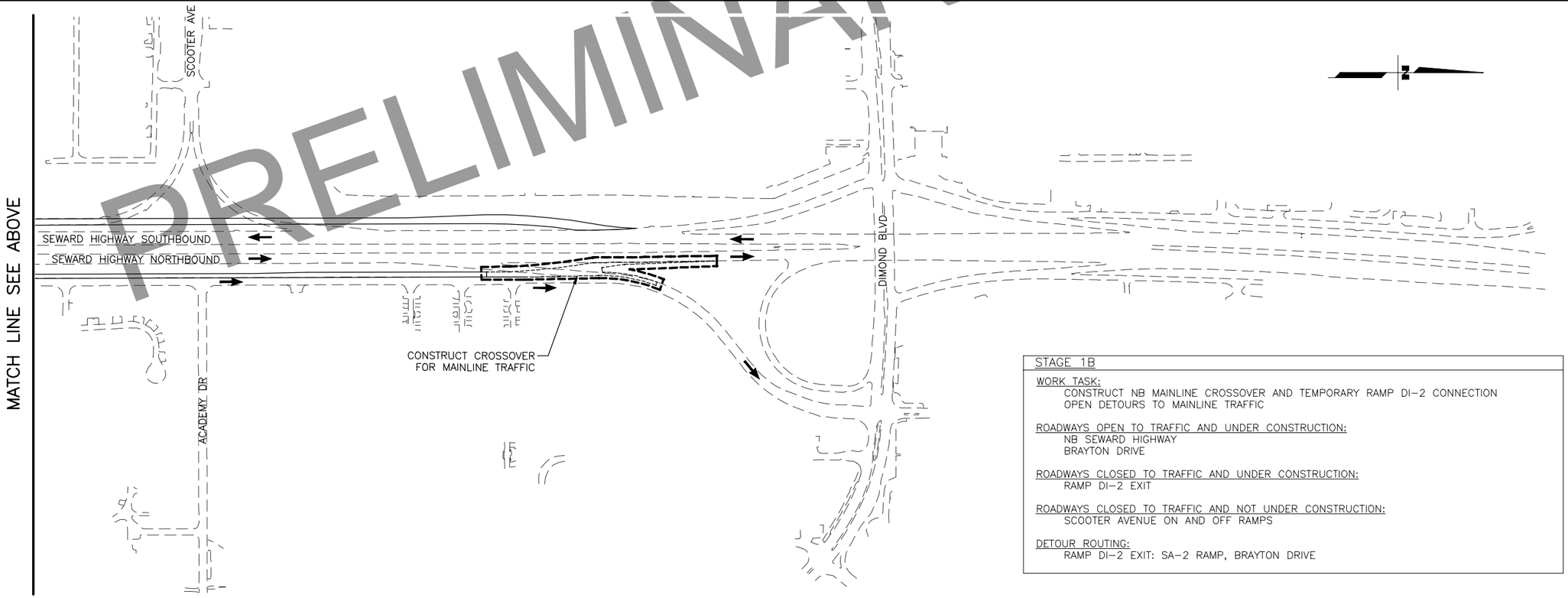


LEGEND

- TRAFFIC FLOW
- CONSTRUCTION ZONE
- TEMPORARY PAVEMENT



STAGE 1B

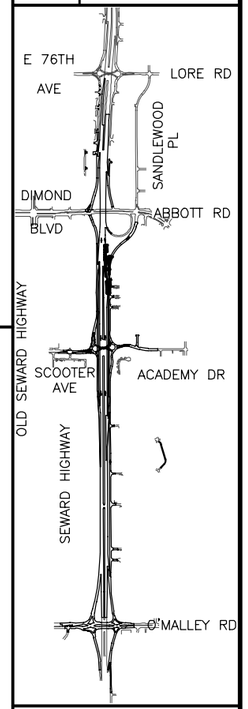
WORK TASK:
CONSTRUCT NB MAINLINE CROSSOVER AND TEMPORARY RAMP DI-2 CONNECTION
OPEN DETOURS TO MAINLINE TRAFFIC

ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
NB SEWARD HIGHWAY
BRAYTON DRIVE

ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
RAMP DI-2 EXIT

ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
SCOOTER AVENUE ON AND OFF RAMPS

DETOUR ROUTING:
RAMP DI-2 EXIT: SA-2 RAMP, BRAYTON DRIVE



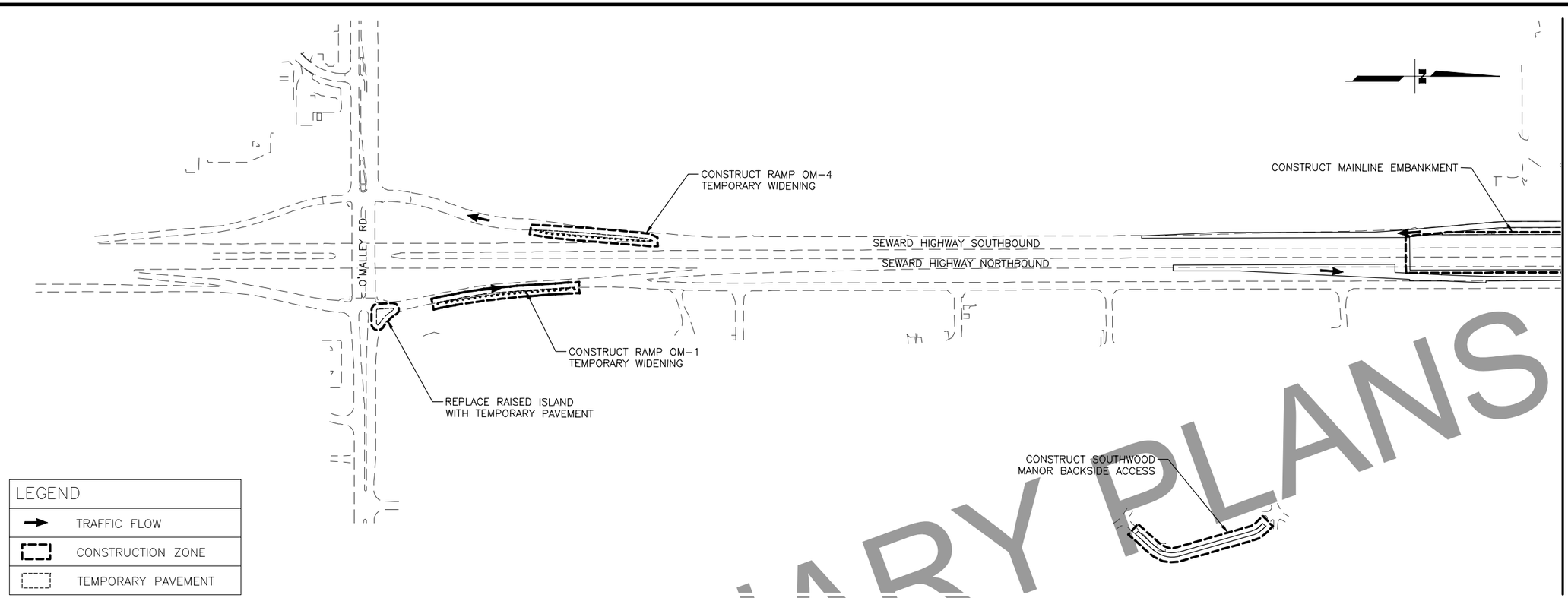
STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

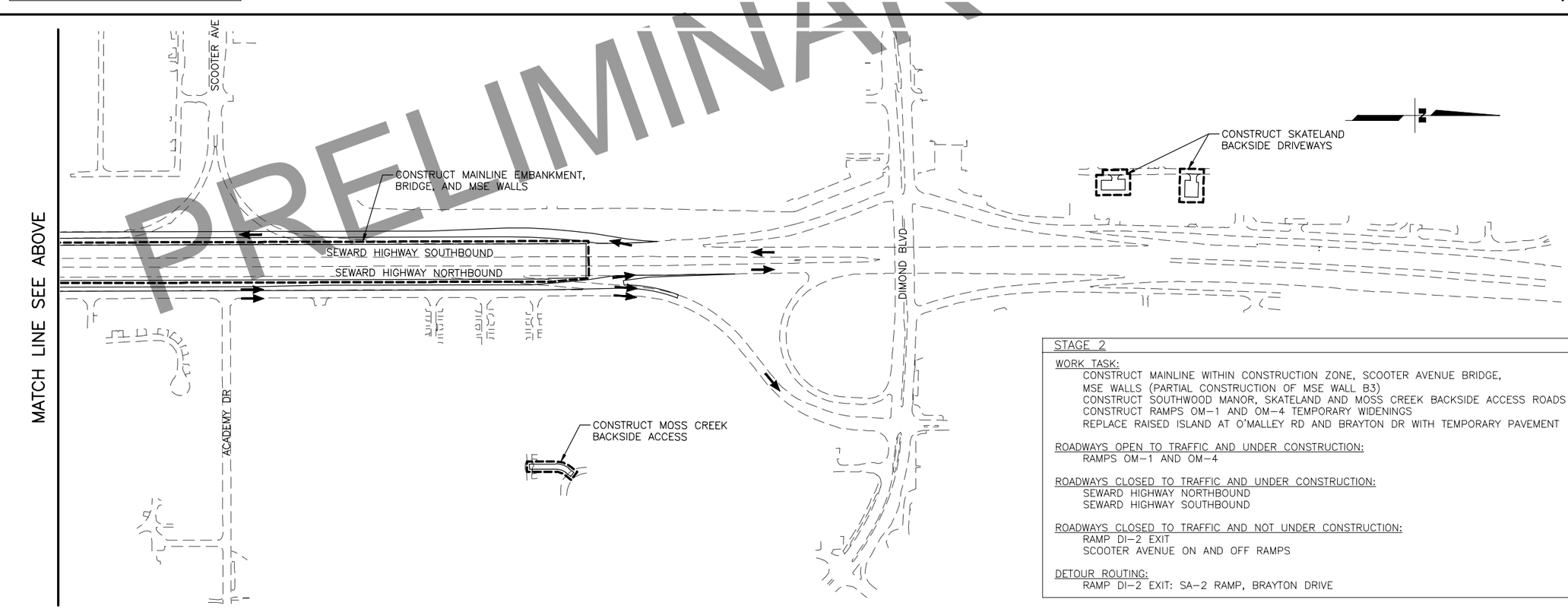
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN STAGE 1B





STAGE 2

WORK TASK:
- CONSTRUCT MAINLINE WITHIN CONSTRUCTION ZONE, SCOOTER AVENUE BRIDGE, MSE WALLS (PARTIAL CONSTRUCTION OF MSE WALL B3)
- CONSTRUCT SOUTHWOOD MANOR, SKATELAND AND MOSS CREEK BACKSIDE ACCESS ROADS
- CONSTRUCT RAMPS OM-1 AND OM-4 TEMPORARY WIDENINGS
- REPLACE RAISED ISLAND AT O'MALLEY RD AND BRAYTON DR WITH TEMPORARY PAVEMENT

ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
- RAMPS OM-1 AND OM-4

ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
- SEWARD HIGHWAY NORTHBOUND
- SEWARD HIGHWAY SOUTHBOUND

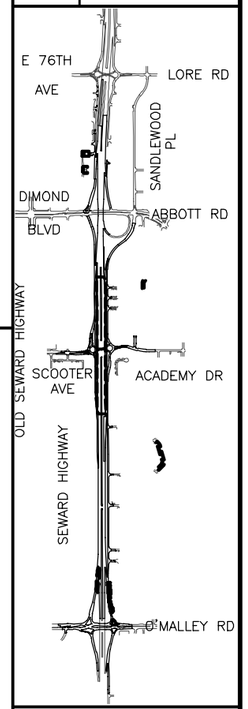
ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
- RAMP DI-2 EXIT
- SCOOTER AVENUE ON AND OFF RAMPS

DETOUR ROUTING:
- RAMP DI-2 EXIT: SA-2 RAMP, BRAYTON DRIVE

SHEET NO.	TOTAL SHEETS
J4	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

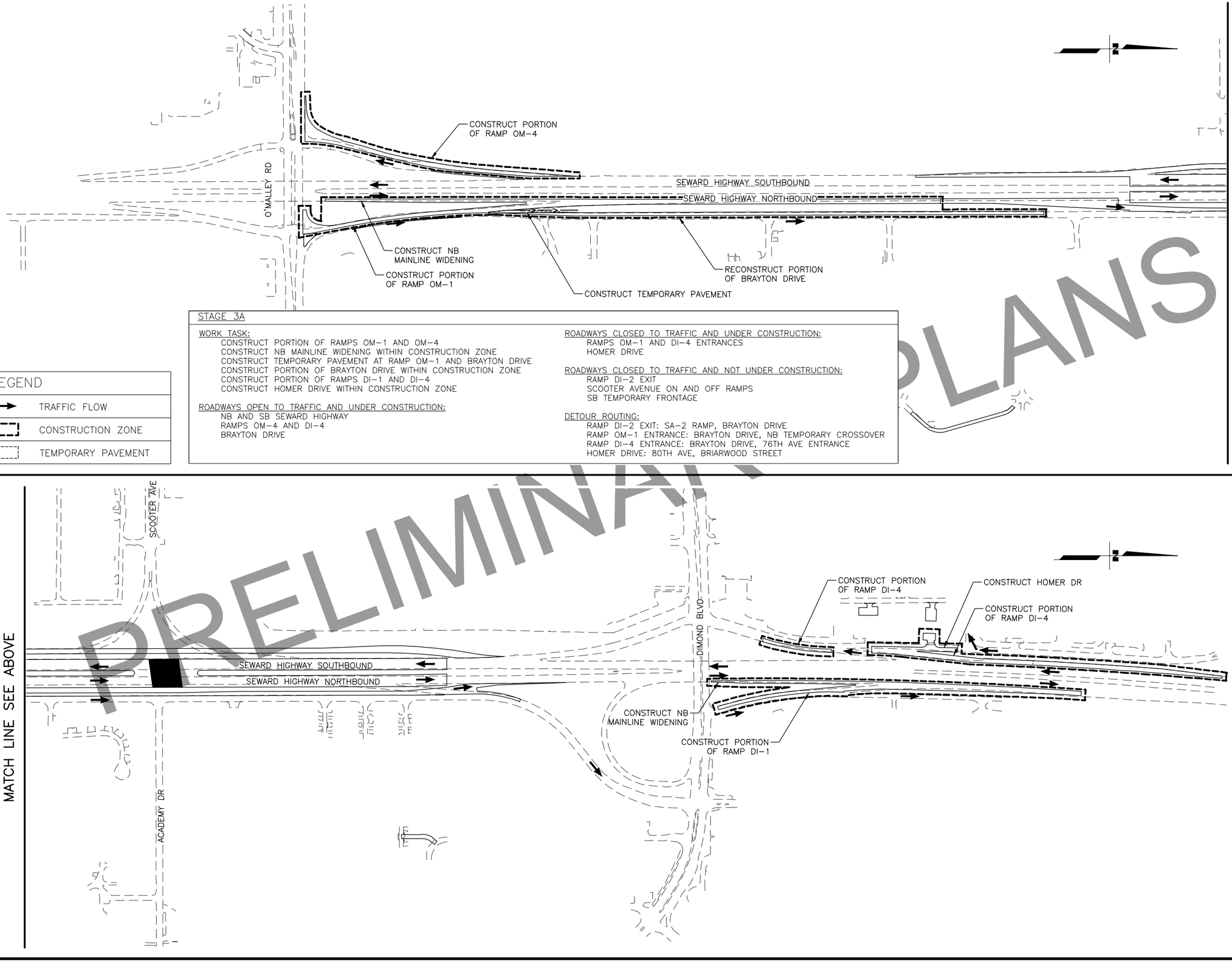
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN STAGE 2

DATE/TIME 4/5/2022 11:08 PM | LAYOUT J4 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK053776\D12330821\00012_J4.DWG



LEGEND

- TRAFFIC FLOW
- CONSTRUCTION ZONE
- TEMPORARY PAVEMENT

STAGE 3A

WORK TASK:
- CONSTRUCT PORTION OF RAMPS OM-1 AND OM-4
- CONSTRUCT NB MAINLINE WIDENING WITHIN CONSTRUCTION ZONE
- CONSTRUCT TEMPORARY PAVEMENT AT RAMP OM-1 AND BRAYTON DRIVE
- CONSTRUCT PORTION OF BRAYTON DRIVE WITHIN CONSTRUCTION ZONE
- CONSTRUCT PORTION OF RAMPS DI-1 AND DI-4
- CONSTRUCT HOMER DRIVE WITHIN CONSTRUCTION ZONE

ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
- NB AND SB SEWARD HIGHWAY
- RAMPS OM-4 AND DI-4
- BRAYTON DRIVE

ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
- RAMPS OM-1 AND DI-4 ENTRANCES
- HOMER DRIVE

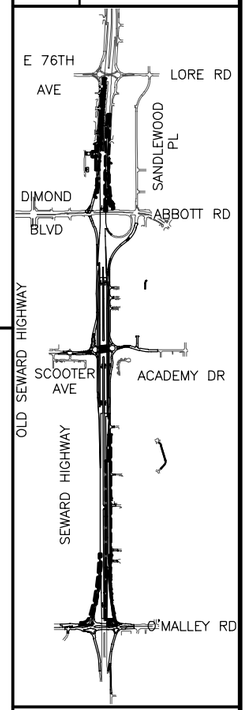
ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
- RAMP DI-2 EXIT
- SCOOTER AVENUE ON AND OFF RAMPS
- SB TEMPORARY FRONTAGE

DETOUR ROUTING:
- RAMP DI-2 EXIT: SA-2 RAMP, BRAYTON DRIVE
- RAMP OM-1 ENTRANCE: BRAYTON DRIVE, NB TEMPORARY CROSSOVER
- RAMP DI-4 ENTRANCE: BRAYTON DRIVE, 76TH AVE ENTRANCE
- HOMER DRIVE: 80TH AVE, BRIARWOOD STREET

SHEET NO.	TOTAL SHEETS
J5	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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AECC628

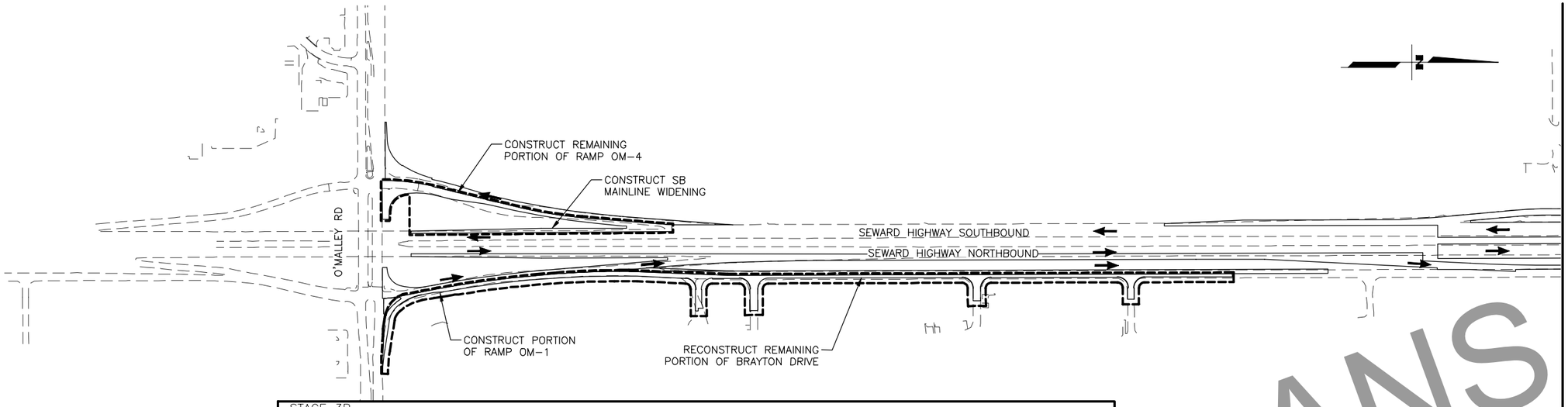
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
STAGE 3A

DATE/TIME 4/5/2022 11:09 PM | LAYOUT J5 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:\PW_WORKDIR\DEN001\RK0537776\D12330B2\00012_J5.DWG



MATCH LINE SEE BELOW

STAGE 3B

WORK TASK:
- CONSTRUCT PORTION OF RAMPS OM–1 AND OM–4
- CONSTRUCT SB MAINLINE WIDENING WITHIN CONSTRUCTION ZONE
- CONSTRUCT PORTION OF BRAYTON DRIVE WITHIN CONSTRUCTION ZONE
- CONSTRUCT SCOOTER AVENUE AND ACADEMY DRIVE
- CONSTRUCT PORTIONS OF EASTERN AND WESTERN ROUNDABOUTS
- CONSTRUCT PORTION OF RAMPS HD–3 AND SA–4
- CONSTRUCT PORTION OF RAMPS DI–1 AND DI–4

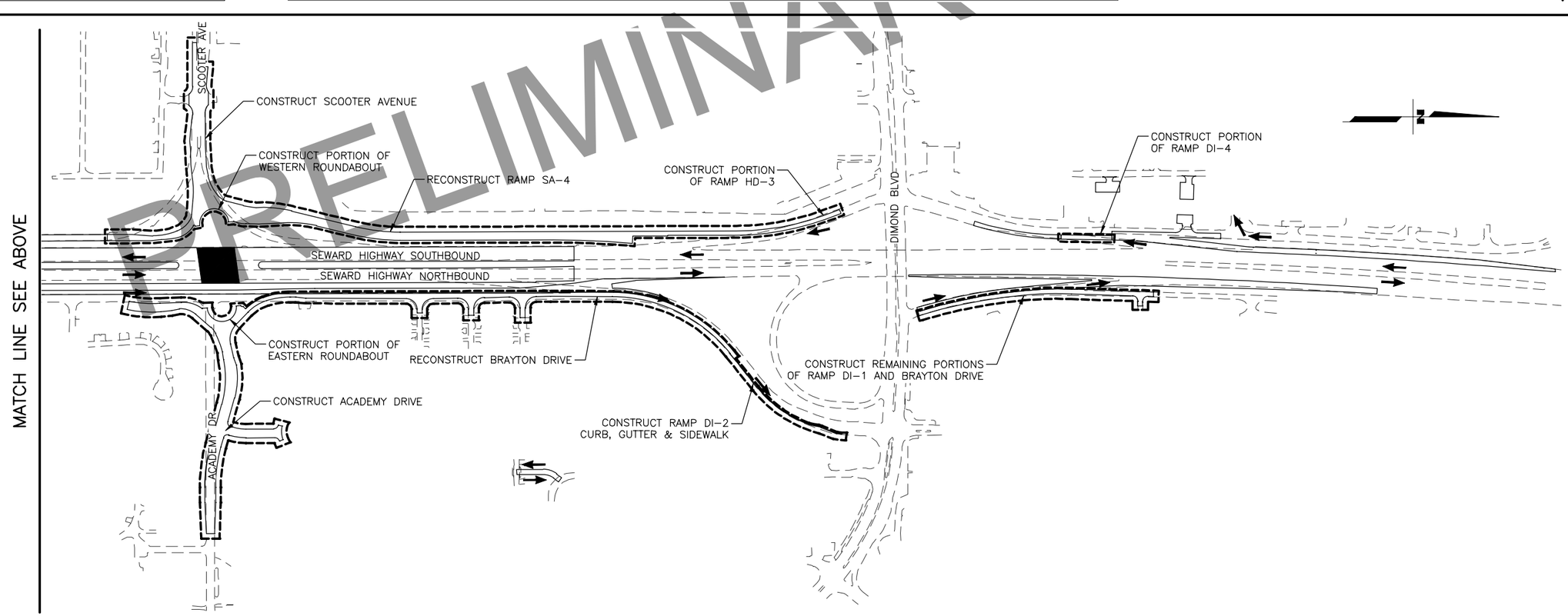
ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
- SB SEWARD HIGHWAY
- RAMPS OM–1, RAMP OM–4 AND RAMP DI–4
- BRAYTON DRIVE

ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
- SCOOTER AVENUE
- ACADEMY DRIVE
- BRAYTON DRIVE AT RAMP DI–1

ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
- RAMP DI–2 EXIT

DETOUR ROUTING:
- RAMP DI–2 EXIT: SA–2 RAMP, BRAYTON DRIVE
- ACADEMY DRIVE: BRAYTON DRIVE, DIMOND BLVD.

LEGEND
- TRAFFIC FLOW
- CONSTRUCTION ZONE

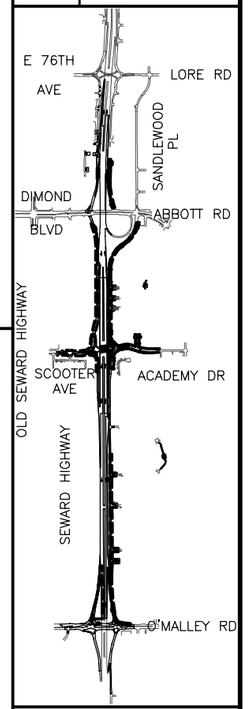


MATCH LINE SEE ABOVE

SHEET NO.	TOTAL SHEETS
J6	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

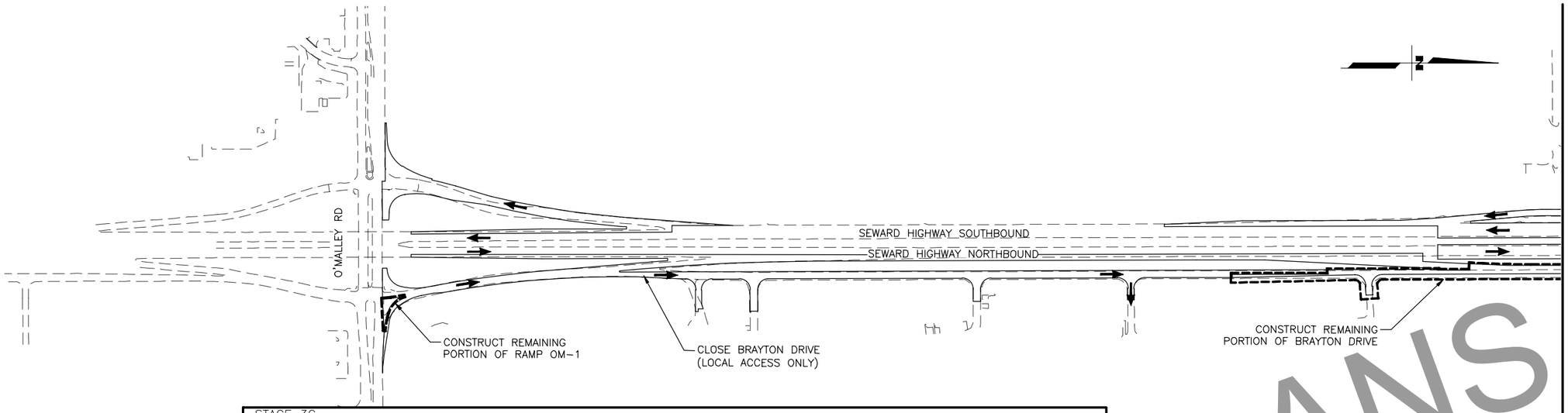
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
STAGE 3B

DATE/TIME | 4/5/2022 11:14 PM | LAYOUT | J6 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:_PW_WORKDIR\DEN001\RK053776\D1233082\00012_J6.DWG



MATCH LINE SEE BELOW

LEGEND

→	TRAFFIC FLOW
⬚	CONSTRUCTION ZONE

STAGE 3C

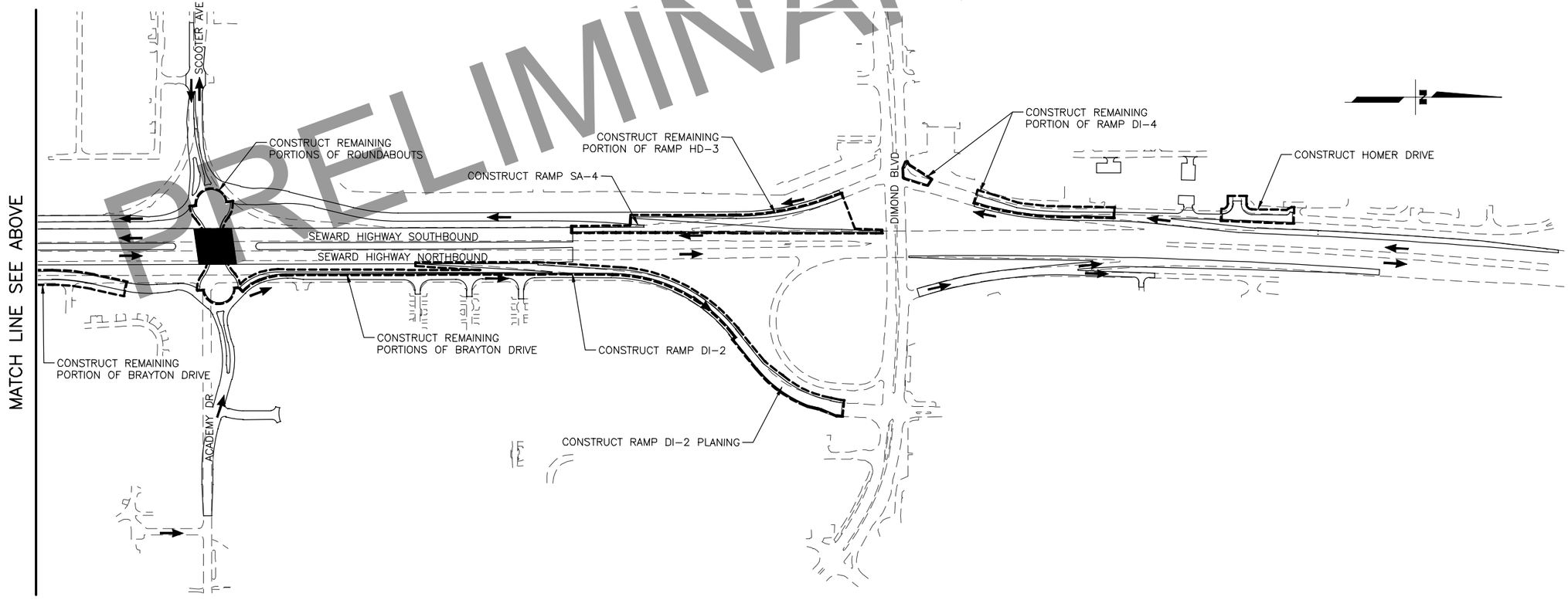
WORK TASK:
- CONSTRUCT REMAINING PORTION OF RAMP OM-1
- CONSTRUCT REMAINING PORTIONS OF BRAYTON DRIVE
- CONSTRUCT REMAINING PORTIONS OF ROUNDABOUTS
- CONSTRUCT RAMP DI-2 AND REMAINING PORTION OF MSE WALL B3
- CONSTRUCT REMAINING PORTIONS OF RAMP HD-3
- CONSTRUCT REMAINING PORTIONS OF HOMER DRIVE
- CONSTRUCT REMAINING PORTION OF RAMP DI-4

ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
- SB SEWARD HIGHWAY
- RAMPS OM-1 AND HD-3
- BRAYTON DRIVE (NORTH OF ACADEMY)

ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
- BRAYTON DRIVE (SOUTH OF ACADEMY)
- HOMER DRIVE
- RAMP DI-2

ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
- NONE

DETOUR ROUTING:
- BRAYTON DRIVE (SOUTH OF ACADEMY) (LOCAL TRAFFIC ONLY): 9599 BRAYTON DRIVE, DONNA DRIVE, SOUTHWOOD MANOR BACKSIDE ACCESS, HELGELIEN LOOP, EMILY PLACE, ACADEMY DRIVE.

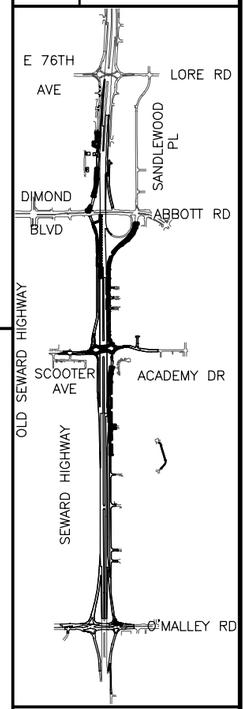


MATCH LINE SEE ABOVE

SHEET NO.	TOTAL SHEETS
J7	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

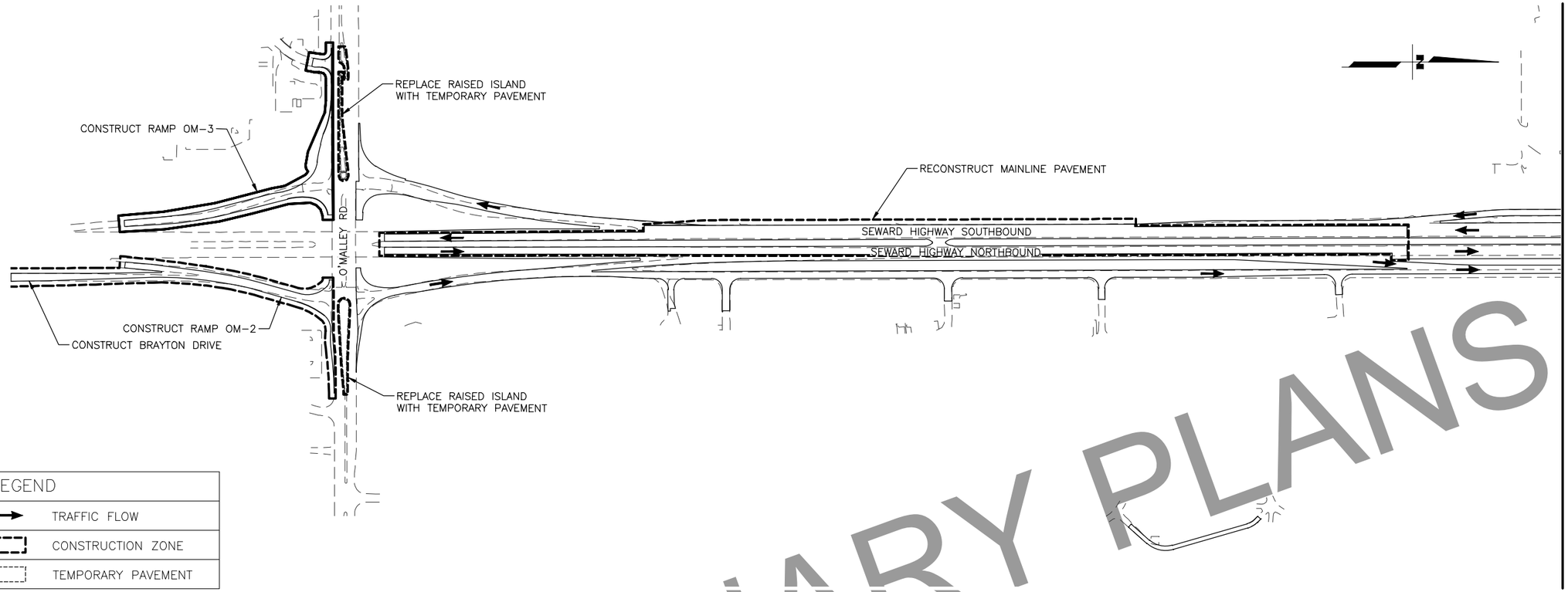
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
STAGE 3C

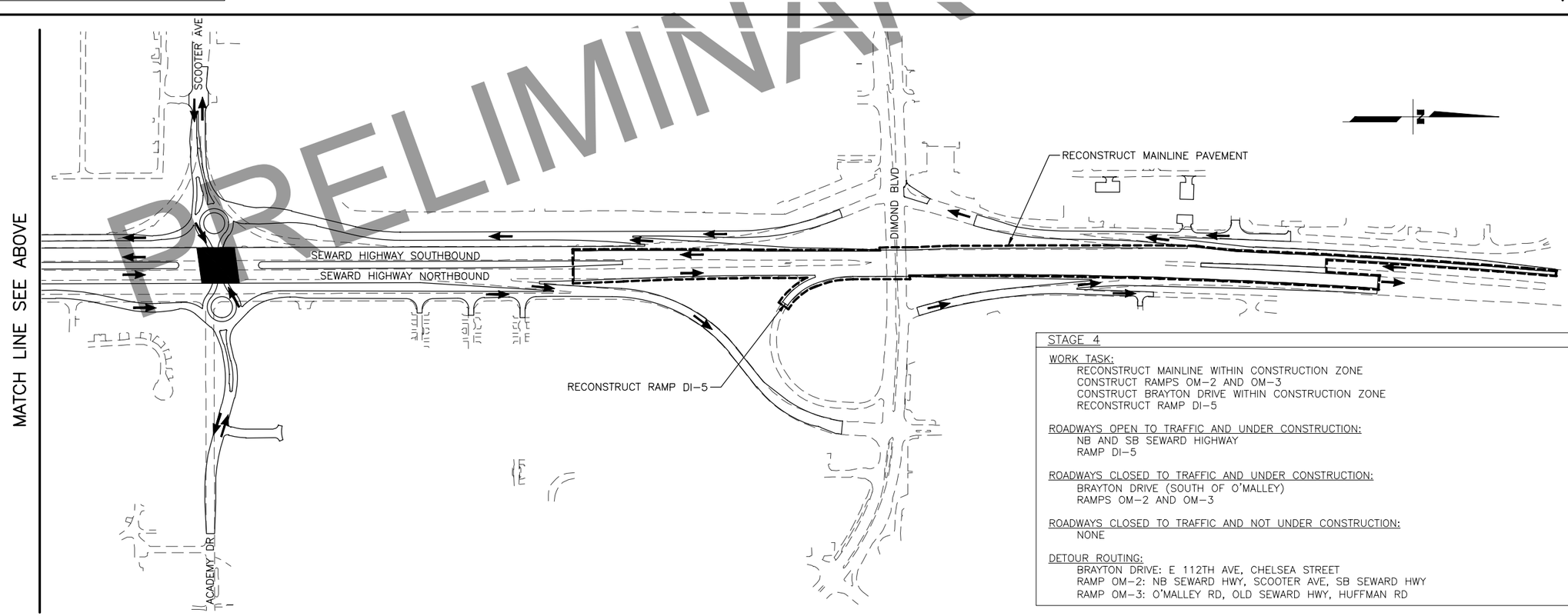
DATE/TIME | 4/5/2022 11:14 PM | LAYOUT | J7 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:\PW_WORKDIR\DEN001\RK053776\D12330B2\00012_J7.DWG



LEGEND

- TRAFFIC FLOW
- CONSTRUCTION ZONE
- TEMPORARY PAVEMENT



STAGE 4

WORK TASK:
- RECONSTRUCT MAINLINE WITHIN CONSTRUCTION ZONE
- CONSTRUCT RAMPS OM-2 AND OM-3
- CONSTRUCT BRAYTON DRIVE WITHIN CONSTRUCTION ZONE
- RECONSTRUCT RAMP DI-5

ROADWAYS OPEN TO TRAFFIC AND UNDER CONSTRUCTION:
- NB AND SB SEWARD HIGHWAY
- RAMP DI-5

ROADWAYS CLOSED TO TRAFFIC AND UNDER CONSTRUCTION:
- BRAYTON DRIVE (SOUTH OF O'MALLEY)
- RAMPS OM-2 AND OM-3

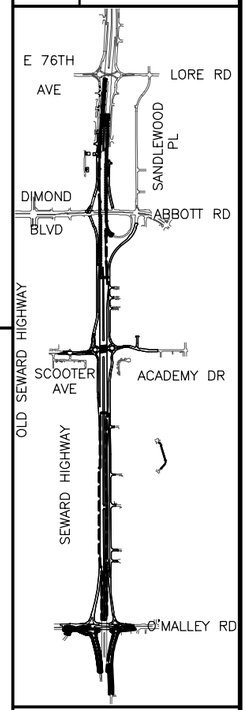
ROADWAYS CLOSED TO TRAFFIC AND NOT UNDER CONSTRUCTION:
- NONE

DETOUR ROUTING:
- BRAYTON DRIVE: E 112TH AVE, CHELSEA STREET
- RAMP OM-2: NB SEWARD HWY, SCOOTER AVE, SB SEWARD HWY
- RAMP OM-3: O'MALLEY RD, OLD SEWARD HWY, HUFFMAN RD

SHEET NO.	TOTAL SHEETS
J8	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

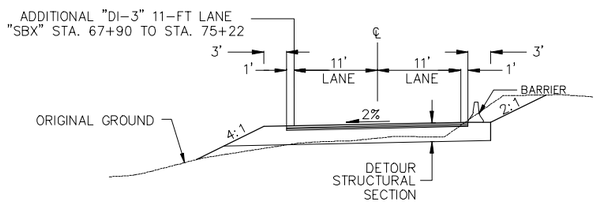
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
STAGE 4

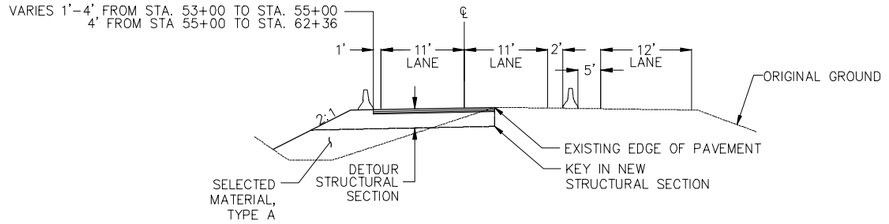
DATE/TIME 4/5/2022 11:15 PM | LAYOUT J8 | DESIGNED JM | CHECKED MR | DRAFTED RM

FILE C:_PW_WORKDIR\DEN001\RK0537776\D12330B2\00012_J8.DWG

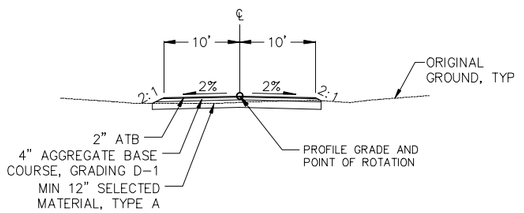
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	J9	J18



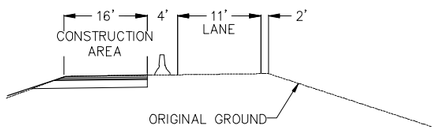
STAGE 2 – SOUTHBOUND FRONTAGE
"SBX" STA. 56+00 TO STA. 75+22



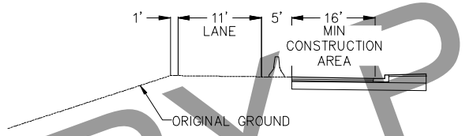
STAGE 2 – NORTHBOUND FRONTAGE
"NBX" STA. 41+25 TO STA. 68+05



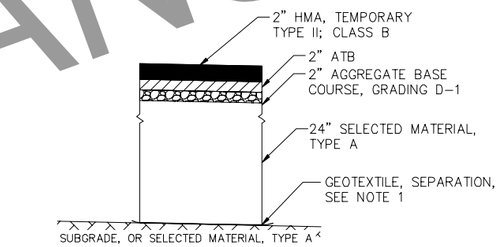
STAGE 2 – MOSS CREEK TEMP ACCESS
"MCX" STA. 0+00 TO STA. 1+75



STAGE 3A – BRAYTON DRIVE
(SOUTH OF ACADEMY)



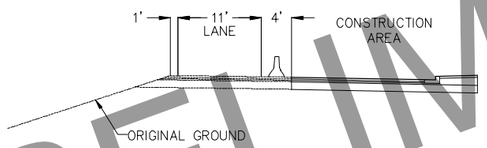
STAGE 3B – BRAYTON DRIVE
(NORTH OF ACADEMY)



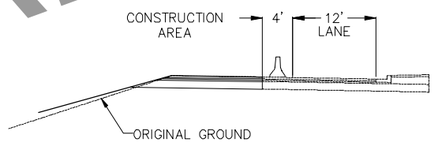
NOTE:

1. PLACE GEOTEXTILE BELOW SELECTED MATERIAL, TYPE A ON SUBGRADE, AS DIRECTED BY THE ENGINEER.

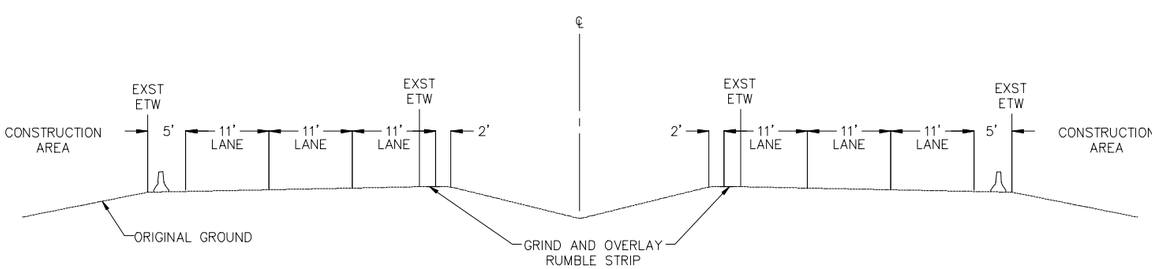
DETOUR STRUCTURAL SECTION



STAGE 3B – BRAYTON DRIVE
(SOUTH OF ACADEMY)



STAGE 3C – BRAYTON DRIVE
(NORTH OF ACADEMY)



SEWARD HIGHWAY WIDENING

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TYPICAL SECTIONS

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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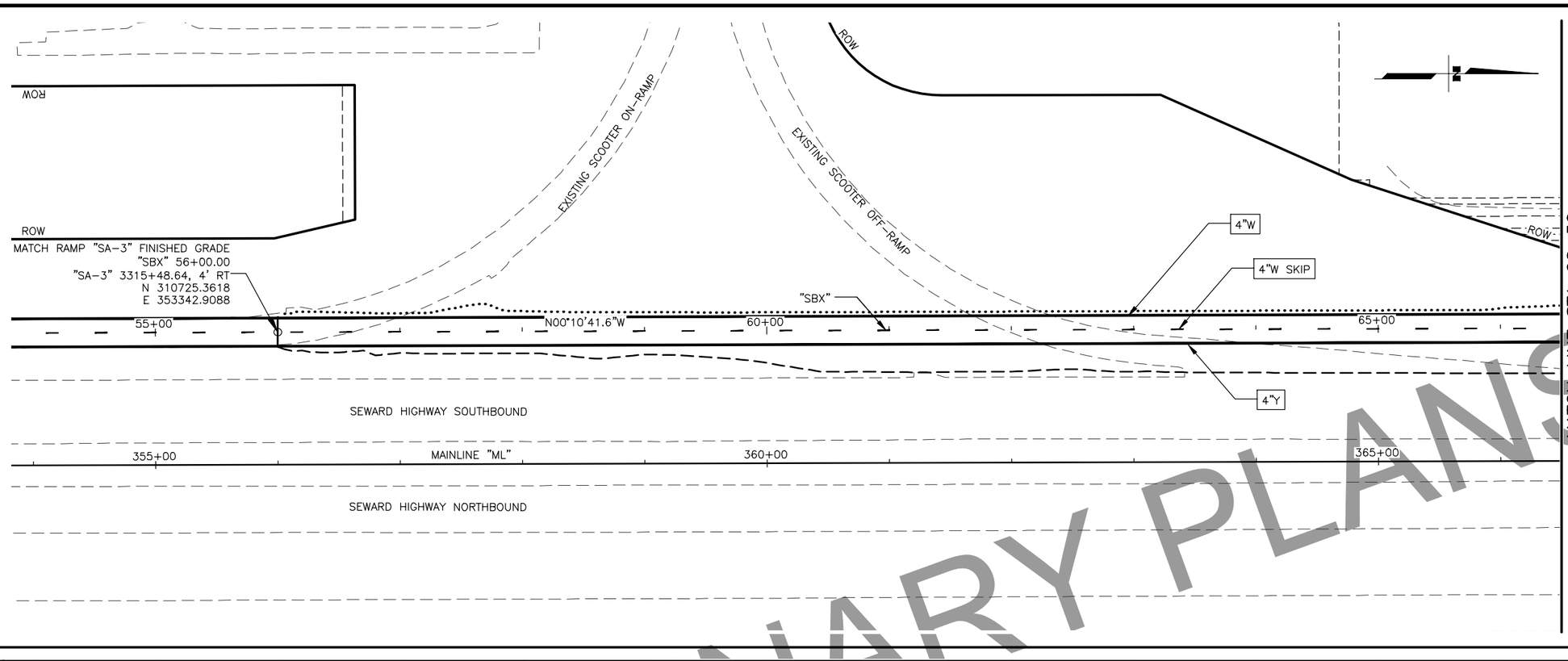
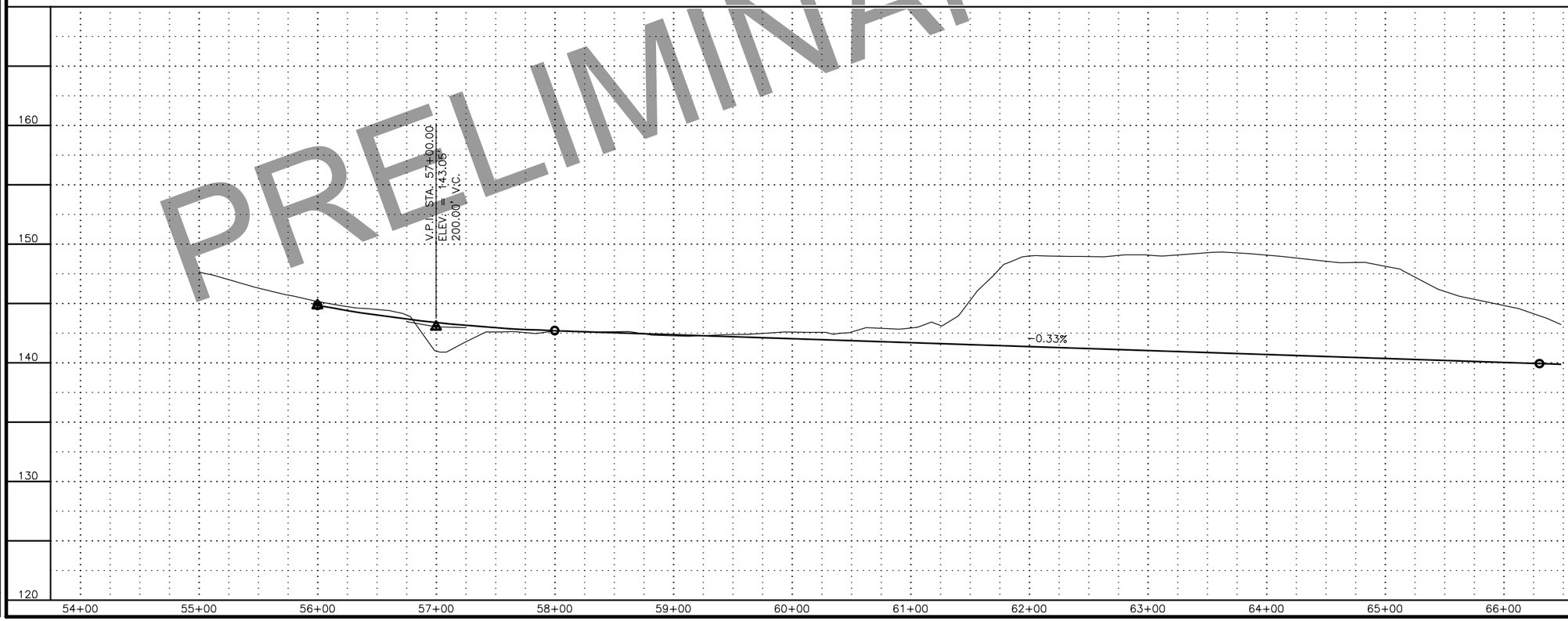
AECC628

DATE/TIME 4/5/2022 11:15 PM | LAYOUT J9 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE [C:\PW_WORKDIR\DEN001\RK053776\D12330821\00012_J9.DWG]

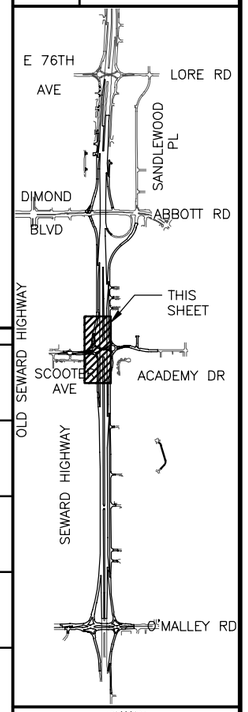




SHEET NO.	TOTAL SHEETS
J10	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
PLAN AND PROFILE
STATION
55+00 TO 66+50

DATE/TIME 4/5/2022 11:16 PM | LAYOUT J10 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK053776\D12330820\00012_J10.DWG

MATCH LINE STA 66+50
SEE SHEET J10

"SBX" 67+90.00
12' LT
BEGIN TAPER

"SBX" 70+90.00
23' LT
END TAPER

P.C. STA. 70+92.21

P.I. STA. 73+08.12
N = 312,433.4725
E = 353,337.5955
Δ = 010°16'52.0"
T = 215.91'
L = 430.65'
R = 2,400.00'

BEGIN "DI-3X"
"DI-3X" 75+07.59
N 312632.8426
E 353361.9954

P.R.C. STA. 75+22.87

P.I. STA. 77+26.87
N = 312,846.8765
E = 353,411.2554
Δ = 009°43'02.4"
T = 204.01'
L = 407.04'
R = 2,400.00'

P.I. STA. 76+88.68
N = 312,811.3255
E = 353,392.6264
Δ = 014°44'26.7"
T = 181.09'
L = 360.18'
R = 1,400.00'

ROW

N00°10'41.6"W

"SBX"

4"W

"SBX" 75+22.02
MATCH EXISTING
EDGE OF PAVEMENT

END "DI-3X"
"DI-3X" 78+67.77
N 312991.7280
E 353376.8349

75+08

75+00

78+68 EXISTING DIMOND ON-RAMP

4"W SKIP

4"Y

SEWARD HIGHWAY SOUTHBOUND

79+30

370+00

MAINLINE "ML"

375+00

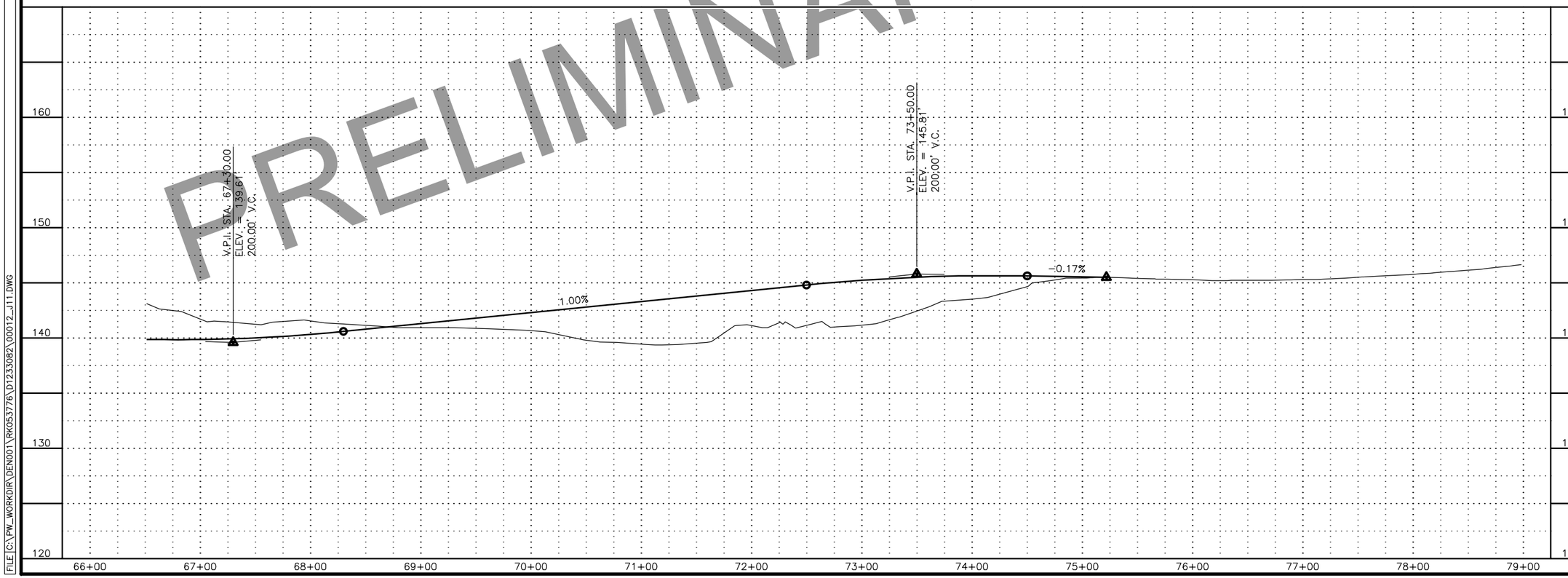
380

SEWARD HIGHWAY NORTHBOUND

EXISTING DIMOND OFF-RAMP

END "SBX"
"SBX" 79+29.90
"ML" 379+25.29, 31.5' LT
N 313050.8804
E 353412.6282

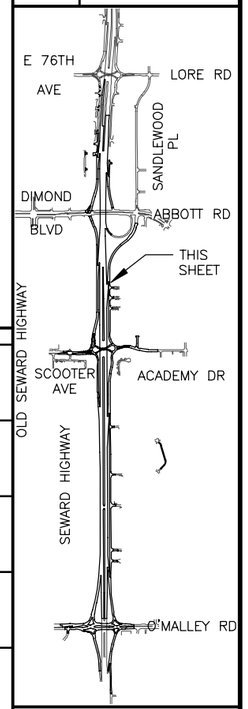
BRAYTON DRIVE



SHEET NO.	TOTAL SHEETS
J11	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

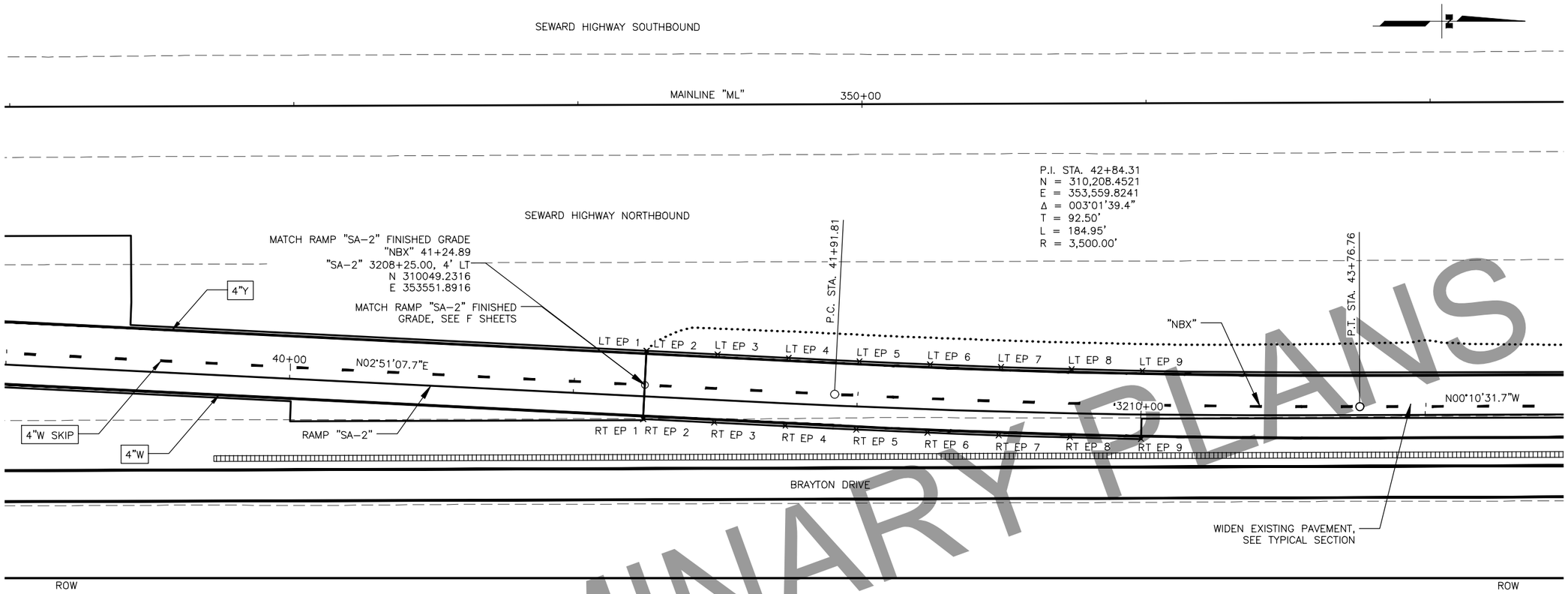
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
PLAN AND PROFILE
STATION
66+50 TO 79+30

DATE/TIME 4/5/2022 11:17 PM | LAYOUT J11 | DESIGNED JM | CHECKED MR | DRAFTED RM
FILE C:\PW_WORKDIR\DEN001\RK053776\D12330B2\00012_J11.DWG

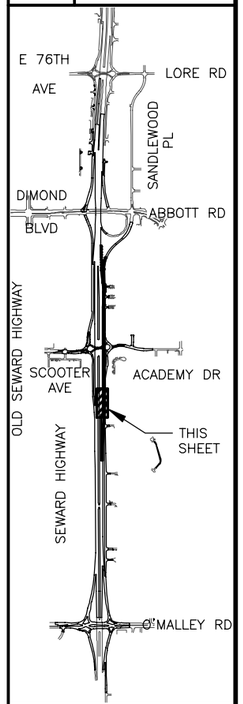


POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
LT EP 1	NBX	41+24.89	12' LT	151.40
LT EP 2	NBX	41+25.00	12' LT	151.45
LT EP 3	NBX	41+50.00	12' LT	151.33
LT EP 4	NBX	41+75.00	12' LT	151.22
LT EP 5	NBX	42+00.00	12' LT	151.11
LT EP 6	NBX	42+25.00	12' LT	150.99
LT EP 7	NBX	42+50.00	12' LT	150.88
LT EP 8	NBX	42+75.00	12' LT	150.76
LT EP 9	NBX	43+00.00	12' LT	150.65
RT EP 1	NBX	41+24.89	12' RT	151.45
RT EP 2	NBX	41+25.00	12' RT	151.45
RT EP 3	NBX	41+50.00	12' RT	151.40
RT EP 4	NBX	41+75.00	12' RT	151.35
RT EP 5	NBX	42+00.00	12' RT	151.30
RT EP 6	NBX	42+25.00	12' RT	151.24
RT EP 7	NBX	42+50.00	12' RT	151.19
RT EP 8	NBX	42+75.00	12' RT	151.14
RT EP 9	NBX	43+00.00	12' RT	151.09

SHEET NO.	TOTAL SHEETS
J12	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



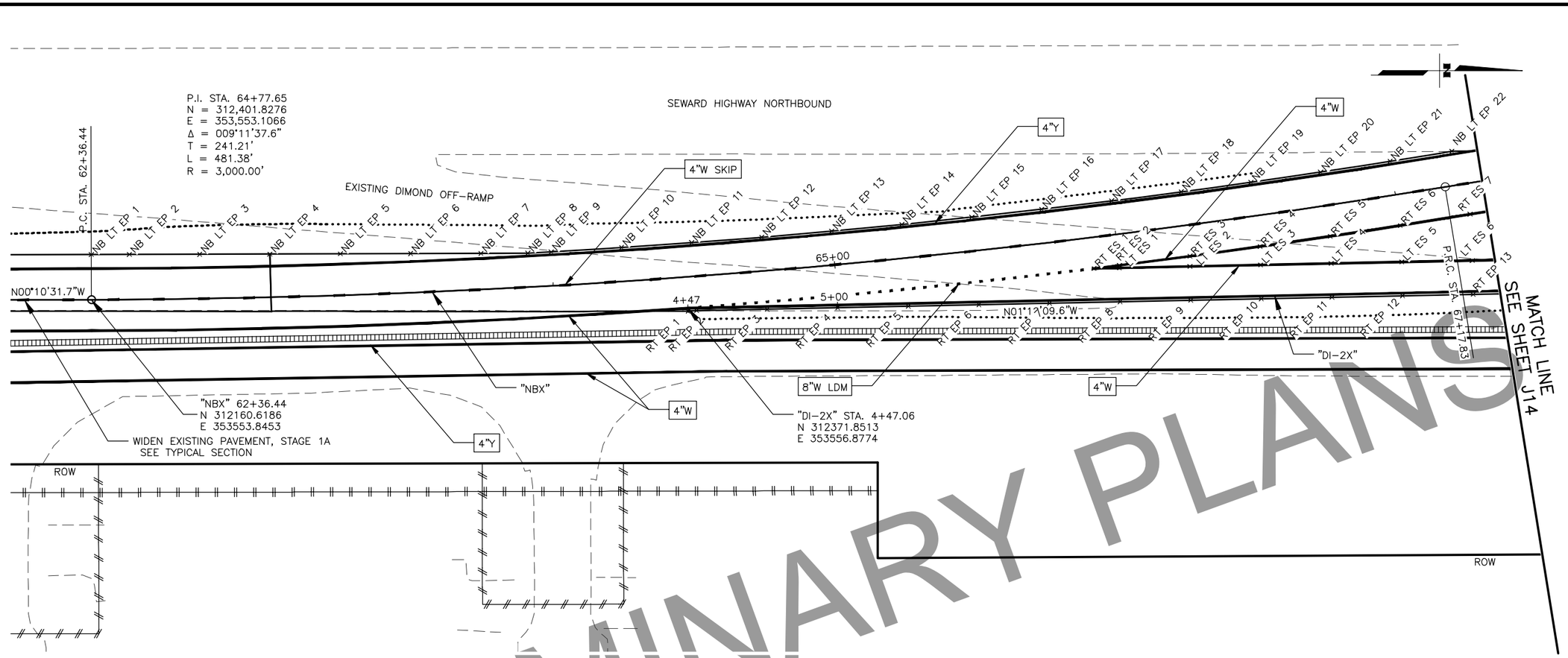
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
NORTHBOUND
PHASE 1A

FILE | C:_PW_WORKDIR_DEN001\RK0537776\D12330821\00012_J12.DWG | DATE/TIME | 4/6/2022 9:04 PM | LAYOUT | J12 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

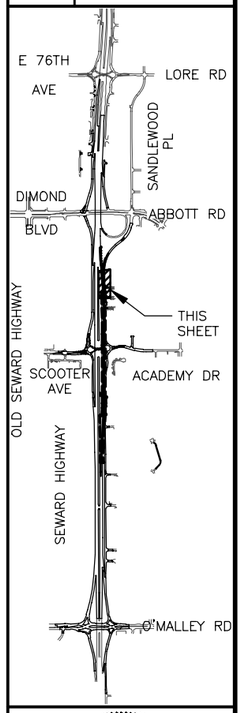


POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
NB LT EP 1	NBX	62+36.44	16' LT	146.06
NB LT EP 2	NBX	62+50.00	15.97' LT	145.99
NB LT EP 3	NBX	62+75.00	15.75' LT	145.78
NB LT EP 4	NBX	63+00.00	15.33' LT	145.56
NB LT EP 5	NBX	63+25.00	14.7' LT	145.33
NB LT EP 6	NBX	63+50.00	13.86 LT	145.14
NB LT EP 7	NBX	63+75.00	12.81' LT	145.02
NB LT EP 8	NBX	63+91.69	12' LT	145.03
NB LT EP 9	NBX	64+00.00	12' LT	145.04
NB LT EP 10	NBX	64+25.00	12' LT	145.12
NB LT EP 11	NBX	64+50.00	12' LT	145.22
NB LT EP 12	NBX	64+75.00	12' LT	145.33
NB LT EP 13	NBX	65+00.00	12' LT	145.44
NB LT EP 14	NBX	65+25.00	12' LT	145.55
NB LT EP 15	NBX	65+50.00	12' LT	145.65
NB LT EP 16	NBX	65+75.00	12' LT	145.73
NB LT EP 17	NBX	66+00.00	12' LT	145.80
NB LT EP 18	NBX	66+25.00	12' LT	145.84
NB LT EP 19	NBX	66+50.00	12' LT	145.85
NB LT EP 20	NBX	66+75.00	12' LT	145.82
NB LT EP 21	NBX	67+00.00	12' LT	145.75
NB LT EP 22	NBX	67+22.24	12' LT	145.65
RT ES 1	NBX	65+90.90	11' RT	145.31
RT ES 2	NBX	66+00.00	11' RT	145.34

POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
RT ES 3	NBX	66+25.00	11' RT	145.38
RT ES 4	NBX	66+50.00	11' RT	145.39
RT ES 5	NBX	66+75.00	11' RT	145.36
RT ES 6	NBX	67+00.00	11' RT	145.29
RT ES 7	NBX	67+25.00	11' RT	145.17
LT ES 1	DI-2X	6+00.00	11' LT	145.31
LT ES 2	DI-2X	6+25.00	11' LT	145.23
LT ES 3	DI-2X	6+50.00	11' LT	145.05
LT ES 4	DI-2X	6+75.00	11' LT	144.78
LT ES 5	DI-2X	7+00.00	11' LT	144.46
LT ES 6	DI-2X	7+25.00	11' LT	144.13
RT EP 1	DI-2X	4+47.00	1' RT	144.73
RT EP 2	DI-2X	4+50.00	1' RT	144.74
RT EP 3	DI-2X	4+75.00	1' RT	144.82
RT EP 4	DI-2X	5+00.00	1' RT	144.90
RT EP 5	DI-2X	5+25.00	1' RT	144.97
RT EP 6	DI-2X	5+50.00	1' RT	145.02
RT EP 7	DI-2X	5+75.00	1' RT	145.06
RT EP 8	DI-2X	6+00.00	1' RT	145.07
RT EP 9	DI-2X	6+25.00	1' RT	144.99
RT EP 10	DI-2X	6+50.00	1' RT	144.81
RT EP 11	DI-2X	6+75.00	1' RT	144.54
RT EP 12	DI-2X	7+00.00	1' RT	144.17
RT EP 13	DI-2X	7+25.00	1' RT	143.70

SHEET NO.	TOTAL SHEETS
J13	J18
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

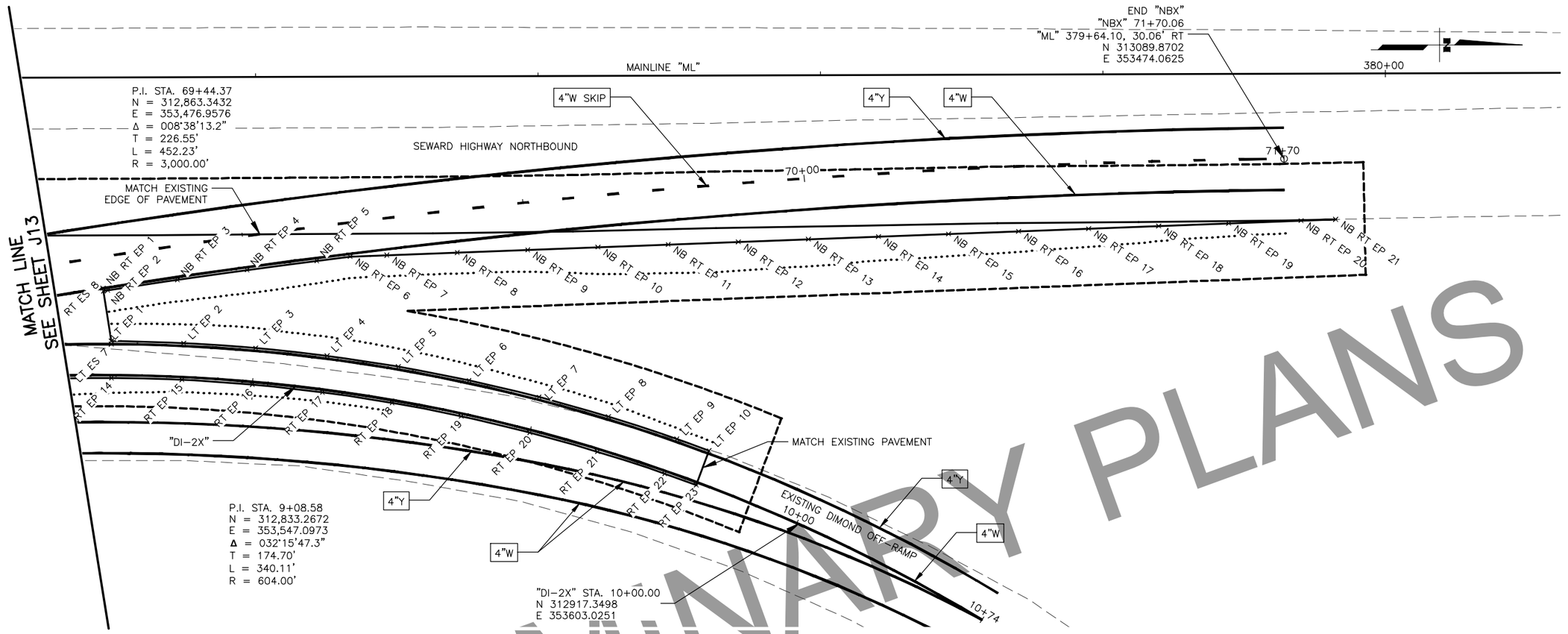
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN NORTHBOUND PHASE 1B

FILE	DATE/TIME	LAYOUT	J13	DESIGNED	JM	CHECKED	MR	DRAFTED	RM
C:\PW_WORKDIR\DEN001\RK053776\D1233082\00012_J13.DWG	4/5/2022 11:18 PM								



POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
NB RT EP 1	NBX	67+48.48	12' RT	144.94
NB RT EP 2	NBX	67+50.00	12' RT	144.93
NB RT EP 3	NBX	67+75.00	12' RT	144.77
NB RT EP 4	NBX	68+00.00	12' RT	144.78
NB RT EP 5	NBX	68+25.00	12' RT	144.78
NB RT EP 6	NBX	68+36.96	12' RT	144.78
NB RT EP 7	NBX	68+50.00	13.08' RT	144.75
NB RT EP 8	NBX	68+75.00	15.01' RT	144.72
NB RT EP 9	NBX	69+00.00	16.74' RT	144.78
NB RT EP 10	NBX	69+25.00	18.25' RT	144.86
NB RT EP 11	NBX	69+50.00	19.56' RT	145.00
NB RT EP 12	NBX	69+75.00	20.66' RT	145.13
NB RT EP 13	NBX	70+00.00	21.55' RT	145.24
NB RT EP 14	NBX	70+25.00	22.23' RT	145.37
NB RT EP 15	NBX	70+50.00	22.71' RT	145.57
NB RT EP 16	NBX	70+75.00	22.98' RT	145.81
NB RT EP 17	NBX	71+00.00	23.05' RT	146.14
NB RT EP 18	NBX	71+25.00	22.9' RT	146.47
NB RT EP 19	NBX	71+50.00	22.55' RT	146.80
NB RT EP 20	ML	379+70.00	51.99' RT	147.13
NB RT EP 21	ML	379+82.27	51.56' RT	147.27
RT ES 8	NBX	67+48.47	11' RT	144.96

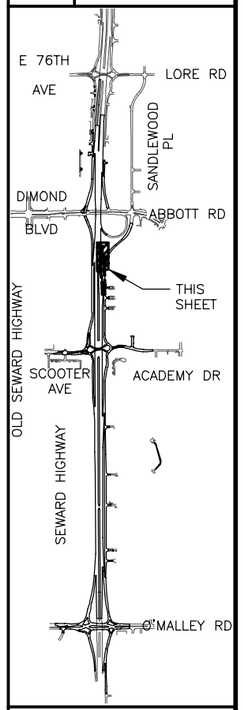
POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
LT EP 1	DI-2X	7+49.87	12' LT	143.76
LT EP 2	DI-2X	7+75.00	12' LT	143.38
LT EP 3	DI-2X	8+00.00	12' LT	142.95
LT EP 4	DI-2X	8+25.00	12' LT	142.56
LT EP 5	DI-2X	8+50.00	12' LT	142.24
LT EP 6	DI-2X	8+75.00	12' LT	141.98
LT EP 7	DI-2X	9+00.00	12' LT	141.78
LT EP 8	DI-2X	9+25.00	12' LT	141.57
LT EP 9	DI-2X	9+50.00	12' LT	141.26
LT EP 10	DI-2X	9+61.92	12' LT	141.13
LT ES 7	DI-2X	7+36.92	12' LT	144.02
RT EP 14	DI-2X	7+50.00	1' RT	143.14
RT EP 15	DI-2X	7+75.00	1' RT	142.62
RT EP 16	DI-2X	8+00.00	1' RT	142.17
RT EP 17	DI-2X	8+25.00	1' RT	141.78
RT EP 18	DI-2X	8+50.00	1' RT	141.46
RT EP 19	DI-2X	8+75.00	1' RT	141.20
RT EP 20	DI-2X	9+00.00	1' RT	141.00
RT EP 21	DI-2X	9+25.00	1' RT	140.79
RT EP 22	DI-2X	9+50.00	1' RT	140.63
RT EP 23	DI-2X	9+61.92	1' RT	140.57

SHEET NO.	TOTAL SHEETS
J14	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN NORTHBOUND PHASE 1B

DATE/TIME 4/6/2022 11:40 AM | LAYOUT J14 | DESIGNED JM | CHECKED MR | DRAFTED RM

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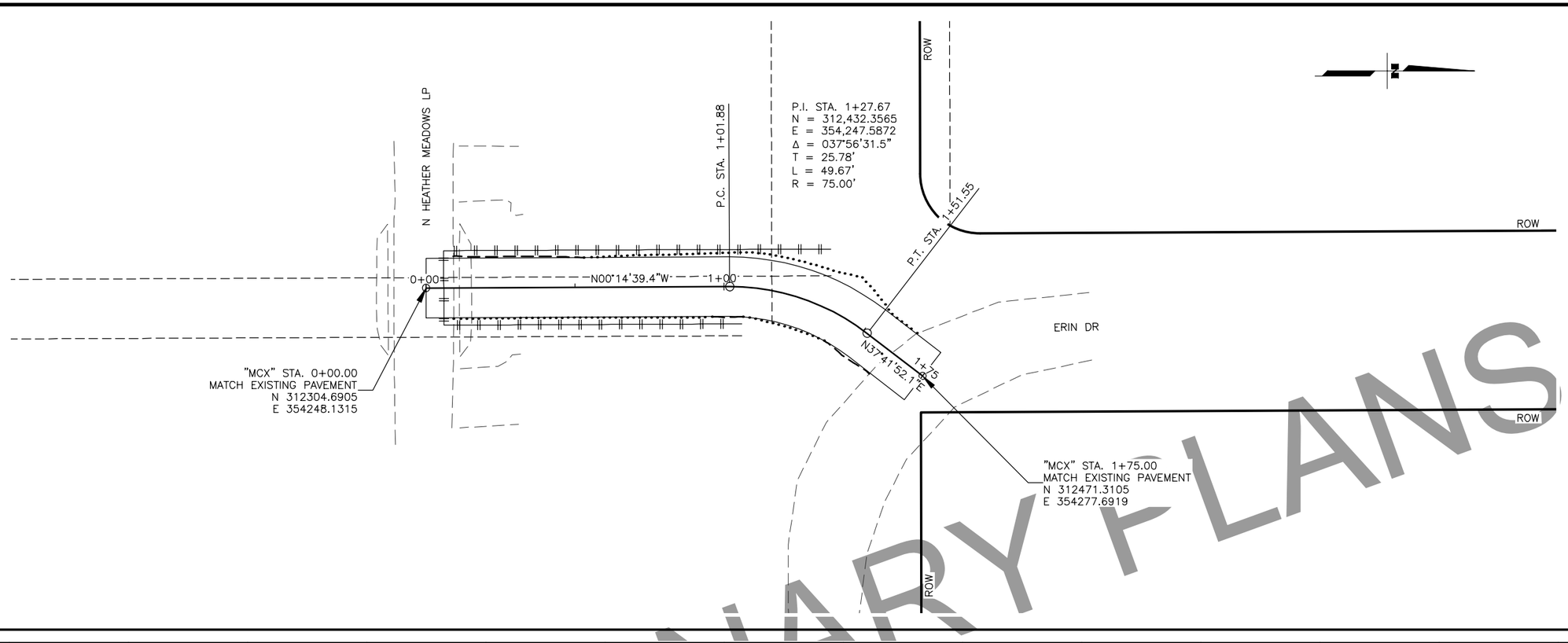
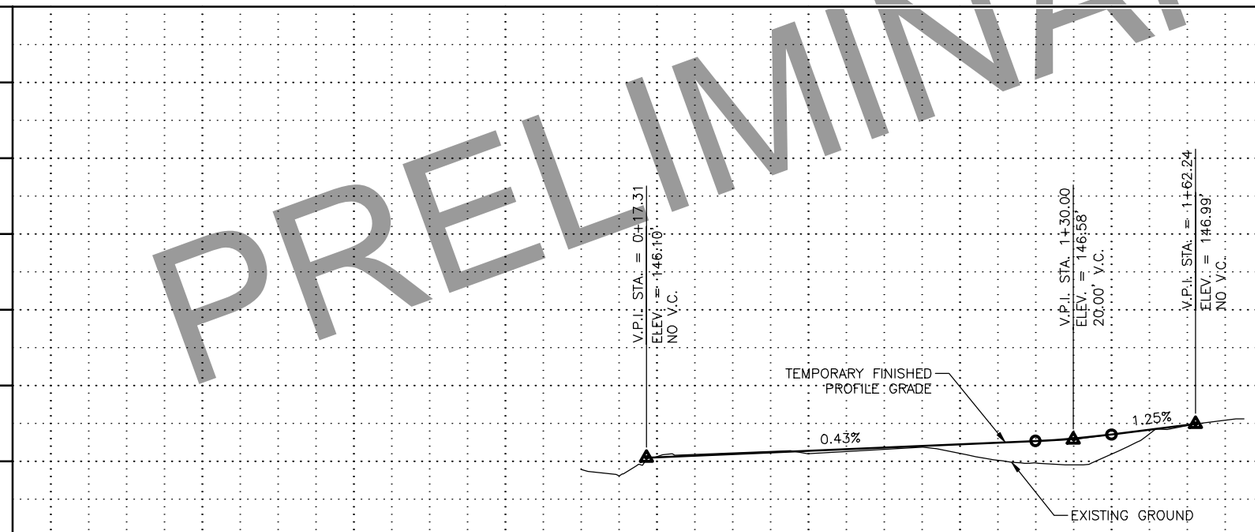
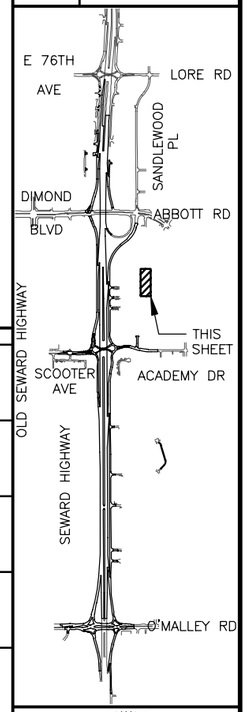




SHEET NO.	TOTAL SHEETS
J15	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

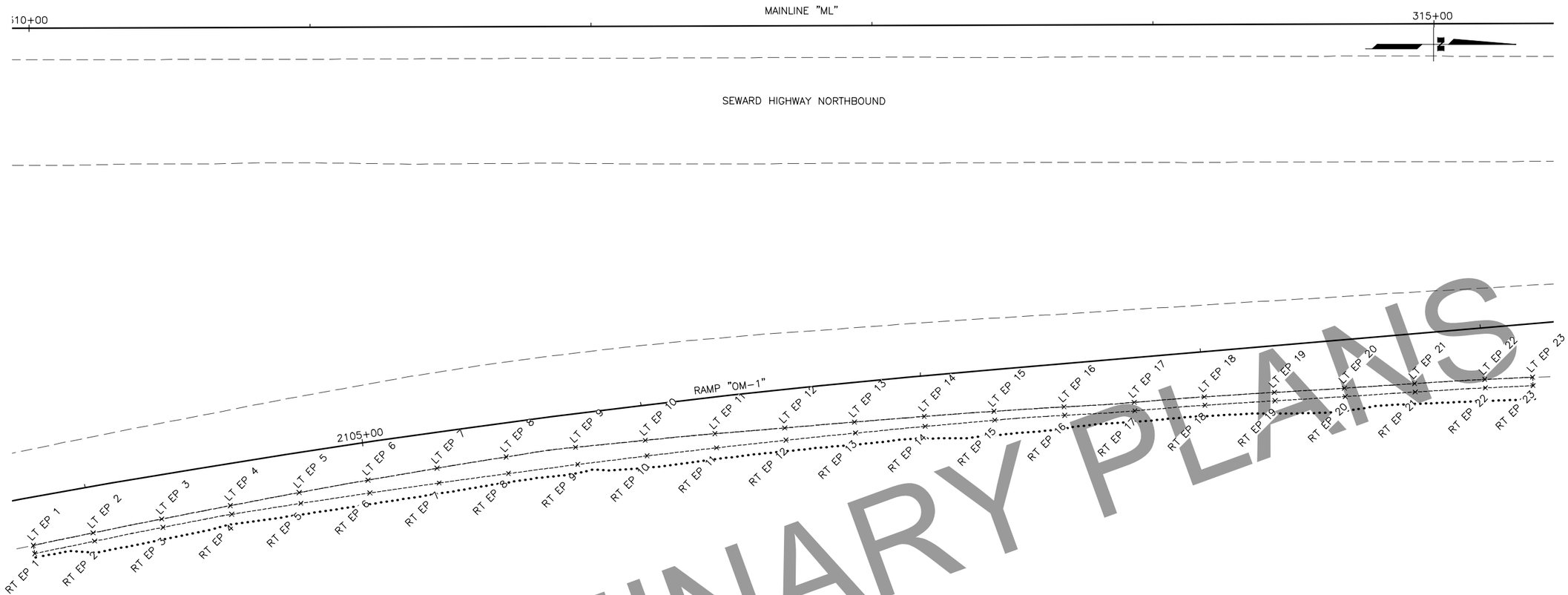
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
PLAN AND PROFILE
MOSS CREEK TEMP ACCESS

DATE/TIME | 4/5/2022 11:20 PM | LAYOUT | J15 | DESIGNED | JM | CHECKED | MR | DRAFTED | RM

FILE | C:_PW_WORKDIR\DEN001\RK053776\D12333082\00012_J15.DWG



POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
LT EP-1	OM-1	2103+78.19	17.00' RT	166.73
LT EP-2	OM-1	2104+00.00	16.36' RT	166.50
LT EP-3	OM-1	2104+25.00	15.63' RT	166.18
LT EP-4	OM-1	2104+50.00	14.90' RT	165.82
LT EP-5	OM-1	2104+75.00	14.11' RT	165.42
LT EP-6	OM-1	2105+00.00	13.40' RT	164.93
LT EP-7	OM-1	2105+25.00	12.71' RT	164.44
LT EP-8	OM-1	2105+50.00	12.06' RT	164.04
LT EP-9	OM-1	2105+75.00	11.87' RT	163.67
LT EP-10	OM-1	2106+00.00	12.42' RT	163.29
LT EP-11	OM-1	2106+25.00	12.95' RT	162.93
LT EP-12	OM-1	2106+50.00	13.62' RT	162.58
LT EP-13	OM-1	2106+75.00	14.07' RT	162.39
LT EP-14	OM-1	2107+00.00	14.45' RT	162.22
LT EP-15	OM-1	2107+25.00	14.85' RT	162.01
LT EP-16	OM-1	2107+50.00	15.40' RT	161.55
LT EP-17	OM-1	2107+75.00	15.89' RT	161.10
LT EP-18	OM-1	2108+00.00	16.06' RT	160.86
LT EP-19	OM-1	2108+25.00	16.59' RT	160.59
LT EP-20	OM-1	2108+50.00	17.19' RT	160.24
LT EP-21	OM-1	2108+75.00	17.70' RT	159.87
LT EP-22	OM-1	2109+00.00	18.34' RT	159.65
LT EP-23	OM-1	2109+16.98	18.99' RT	159.55

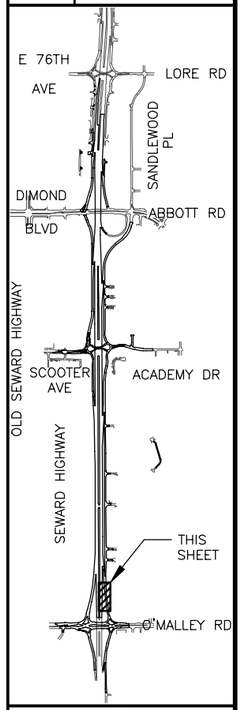
POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
RT EP-1	OM-1	2103+78.19	20.00' RT	166.67
RT EP-2	OM-1	2104+00.00	19.36' RT	166.44
RT EP-3	OM-1	2104+25.00	18.63' RT	166.12
RT EP-4	OM-1	2104+50.00	18.00' RT	165.76
RT EP-5	OM-1	2104+75.00	18.00' RT	165.34
RT EP-6	OM-1	2105+00.00	18.00' RT	164.84
RT EP-7	OM-1	2105+25.00	18.00' RT	164.33
RT EP-8	OM-1	2105+50.00	18.00' RT	163.92
RT EP-9	OM-1	2105+75.00	18.00' RT	163.54
RT EP-10	OM-1	2106+00.00	18.00' RT	163.18
RT EP-11	OM-1	2106+25.00	18.00' RT	162.83
RT EP-12	OM-1	2106+50.00	18.00' RT	162.50
RT EP-13	OM-1	2106+75.00	18.00' RT	162.31
RT EP-14	OM-1	2107+00.00	18.00' RT	162.15
RT EP-15	OM-1	2107+25.00	18.00' RT	161.94
RT EP-16	OM-1	2107+50.00	18.40' RT	161.49
RT EP-17	OM-1	2107+75.00	18.89' RT	161.04
RT EP-18	OM-1	2108+00.00	19.06' RT	160.80
RT EP-19	OM-1	2108+25.00	19.60' RT	160.53
RT EP-20	OM-1	2108+50.00	20.19' RT	160.18
RT EP-21	OM-1	2108+75.00	20.70' RT	159.81
RT EP-22	OM-1	2109+00.00	21.34' RT	159.59
RT EP-23	OM-1	2109+16.98	21.99' RT	159.49

SHEET NO.	TOTAL SHEETS
J16	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

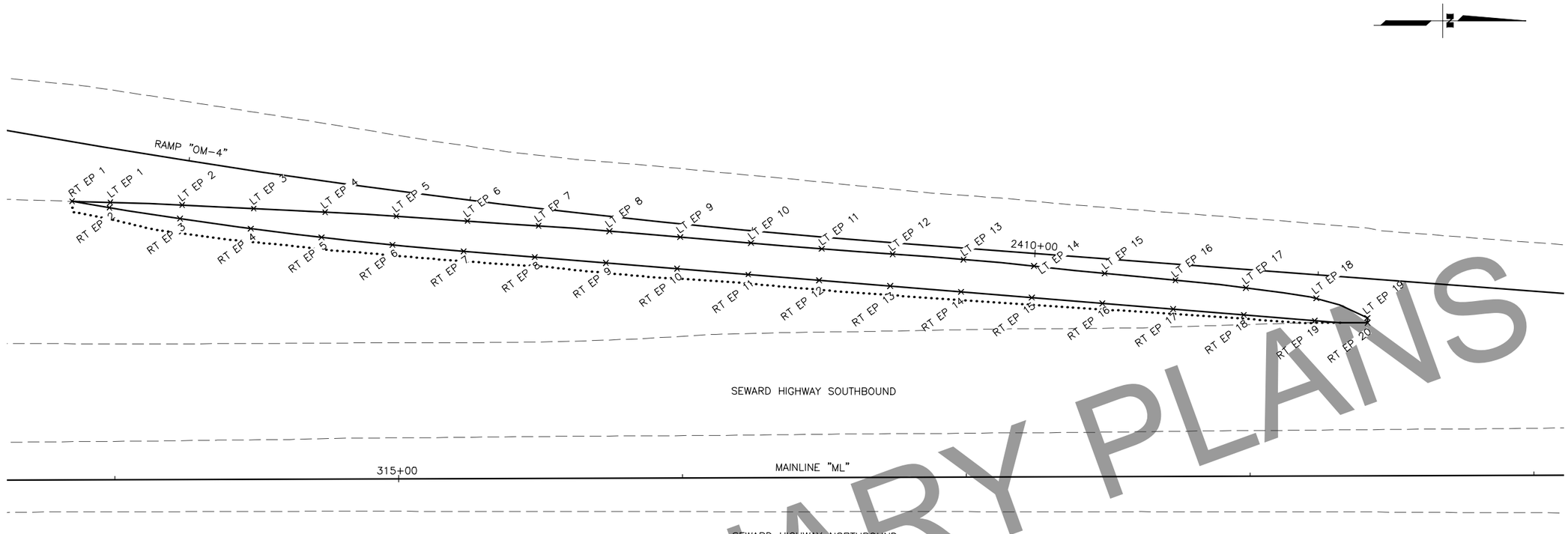
JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
O'MALLEY RAMP
PHASE 2

FILE: C:\PW_WORKDIR\DEN001\RK053776\D1233082\00012_J16.DWG
DATE/TIME: 4/5/2022 11:20 PM | LAYOUT: J16 | DESIGNED: JM | CHECKED: MR | DRAFTED: RM



POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
LT EP 1	OM-4	2406+75.00	18.83' RT	158.89
LT EP 2	OM-4	2407+00.00	15.74' RT	158.81
LT EP 3	OM-4	2407+25.00	13.18' RT	158.75
LT EP 4	OM-4	2407+50.00	10.88' RT	158.73
LT EP 5	OM-4	2407+75.00	8.89' RT	158.79
LT EP 6	OM-4	2408+00.00	7.38' RT	158.84
LT EP 7	OM-4	2408+25.00	6.1' RT	158.88
LT EP 8	OM-4	2408+50.00	5.15' RT	158.98
LT EP 9	OM-4	2408+75.00	4.63' RT	159.10
LT EP 10	OM-4	2409+00.00	4.3' RT	159.12
LT EP 11	OM-4	2409+25.00	4.12' RT	159.09
LT EP 12	OM-4	2409+50.00	4' RT	159.08
LT EP 13	OM-4	2409+75.00	3.99' RT	159.07
LT EP 14	OM-4	2410+00.00	4.42' RT	158.96
LT EP 15	OM-4	2410+25.00	5.13' RT	158.85
LT EP 16	OM-4	2410+50.00	5.69' RT	158.84
LT EP 17	OM-4	2410+75.00	6.48' RT	158.92
LT EP 18	OM-4	2411+00.00	8.28' RT	159.09
LT EP 19	OM-4	2411+18.48	13.79' RT	159.22
RT EP 1	OM-4	2406+61.73	20.66' RT	158.96

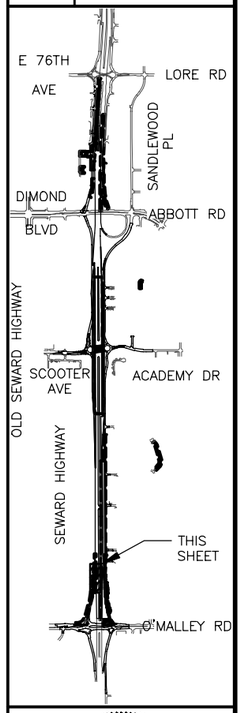
POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
RT EP 2	OM-4	2406+75.00	20.71' RT	158.85
RT EP 3	OM-4	2407+00.00	20.63' RT	158.71
RT EP 4	OM-4	2407+25.00	20.34' RT	158.61
RT EP 5	OM-4	2407+50.00	19.82' RT	158.56
RT EP 6	OM-4	2407+75.00	19.08' RT	158.59
RT EP 7	OM-4	2408+00.00	18.12' RT	158.63
RT EP 8	OM-4	2408+25.00	17.16' RT	158.66
RT EP 9	OM-4	2408+50.00	16.39' RT	158.76
RT EP 10	OM-4	2408+75.00	15.82' RT	158.87
RT EP 11	OM-4	2409+00.00	15.44' RT	158.90
RT EP 12	OM-4	2409+25.00	15.27' RT	158.87
RT EP 13	OM-4	2409+50.00	15.28' RT	158.86
RT EP 14	OM-4	2409+75.00	15.43' RT	158.94
RT EP 15	OM-4	2410+00.00	15.57' RT	158.96
RT EP 16	OM-4	2410+25.00	15.72' RT	158.97
RT EP 17	OM-4	2410+50.00	15.87' RT	159.07
RT EP 18	OM-4	2410+75.00	16.01' RT	159.25
RT EP 19	OM-4	2411+00.00	16.16' RT	159.45
RT EP 20	OM-4	2411+18.69	15.46' RT	159.33

SHEET NO.	TOTAL SHEETS
J17	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN O'MALLEY RAMP PHASE 2

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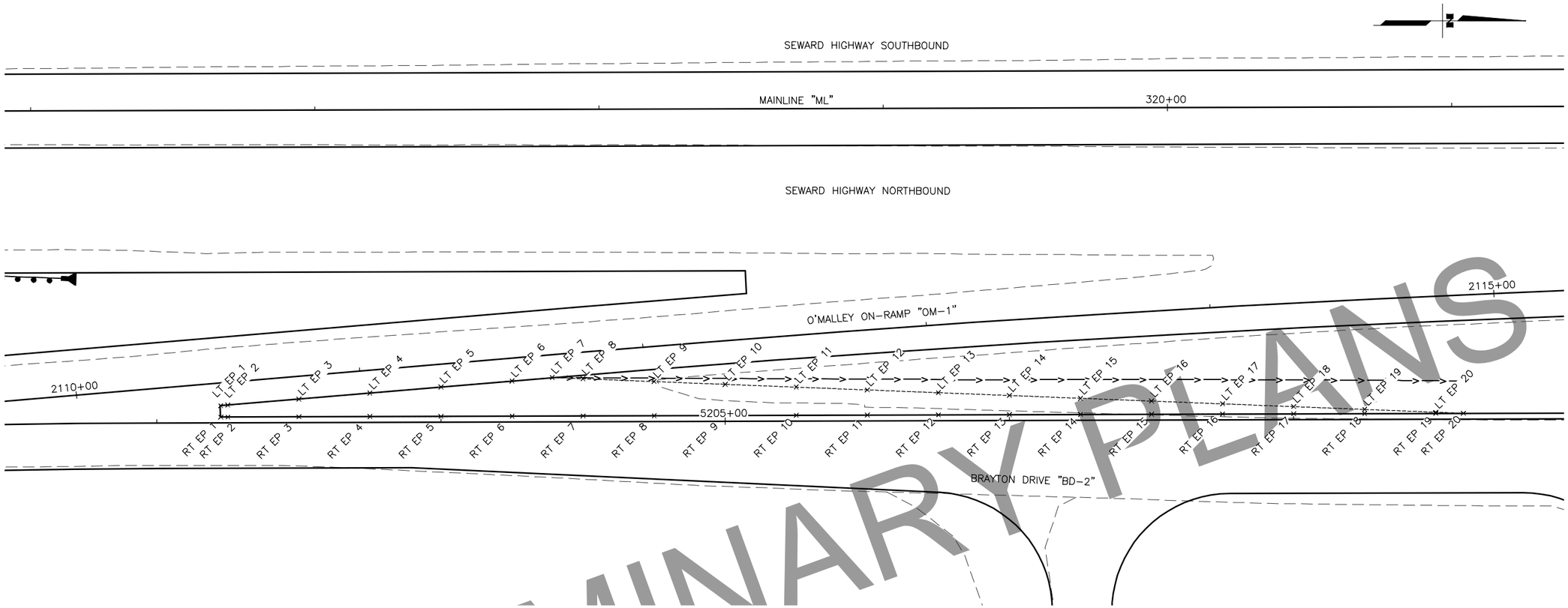


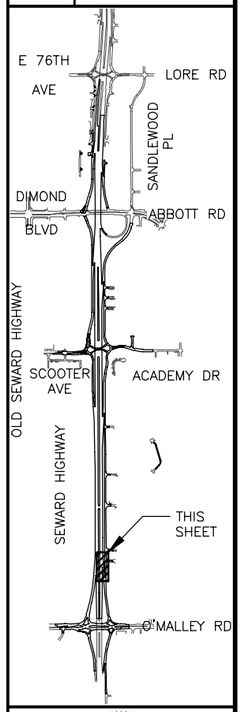
POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
LT EP 1	BD-2	5203+22.50	6.01' LT	159.09
LT EP 2	BD-2	5203+25.00	6.22' LT	159.08
LT EP 3	BD-2	5203+50.00	8.26' LT	158.99
LT EP 4	BD-2	5203+75.00	10.31' LT	158.92
LT EP 5	BD-2	5204+00.00	12.36' LT	158.85
LT EP 6	BD-2	5204+25.00	14.41' LT	158.80
LT EP 7	BD-2	5204+39.14	15.55' LT	158.77
LT EP 8	BD-2	5204+50.00	15.11' LT	158.60
LT EP 9	BD-2	5204+75.00	14.06' LT	158.22
LT EP 10	BD-2	5205+00.00	13.00' LT	157.87
LT EP 11	BD-2	5205+25.00	11.94' LT	157.55
LT EP 12	BD-2	5205+50.00	10.88' LT	157.25
LT EP 13	BD-2	5205+75.00	9.82' LT	156.96
LT EP 14	BD-2	5206+00.00	8.76' LT	156.69
LT EP 15	BD-2	5206+25.00	7.70' LT	156.52
LT EP 16	BD-2	5206+50.00	6.65' LT	156.36
LT EP 17	BD-2	5206+75.00	5.59' LT	156.19
LT EP 18	BD-2	5207+00.00	4.53' LT	156.03
LT EP 19	BD-2	5207+25.00	3.47' LT	155.86
LT EP 20	BD-2	5207+50.00	2.41' LT	155.69

POINT	ALIGNMENT	STATION	OFFSET	ELEVATION
RT EP 1	BD-2	5203+22.50	2' LT	158.99
RT EP 2	BD-2	5203+25.00	2' LT	158.97
RT EP 3	BD-2	5203+50.00	2' LT	158.78
RT EP 4	BD-2	5203+75.00	2' LT	158.59
RT EP 5	BD-2	5204+00.00	2' LT	158.40
RT EP 6	BD-2	5204+25.00	2' LT	158.22
RT EP 7	BD-2	5204+50.00	2' LT	158.03
RT EP 8	BD-2	5204+75.00	2' LT	157.84
RT EP 9	BD-2	5205+00.00	2' LT	157.66
RT EP 10	BD-2	5205+25.00	2' LT	157.47
RT EP 11	BD-2	5205+50.00	2' LT	157.28
RT EP 12	BD-2	5205+75.00	2' LT	157.07
RT EP 13	BD-2	5206+00.00	2' LT	156.82
RT EP 14	BD-2	5206+25.00	2' LT	156.64
RT EP 15	BD-2	5206+50.00	2' LT	156.45
RT EP 16	BD-2	5206+75.00	2' LT	156.26
RT EP 17	BD-2	5207+00.00	2' LT	156.08
RT EP 18	BD-2	5207+25.00	2' LT	155.89
RT EP 19	BD-2	5207+50.00	2' LT	155.70
RT EP 20	BD-2	5207+59.74	2' LT	155.63

SHEET NO.	TOTAL SHEETS
J18	J18
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
BRAYTON DRIVE
PHASE 3A

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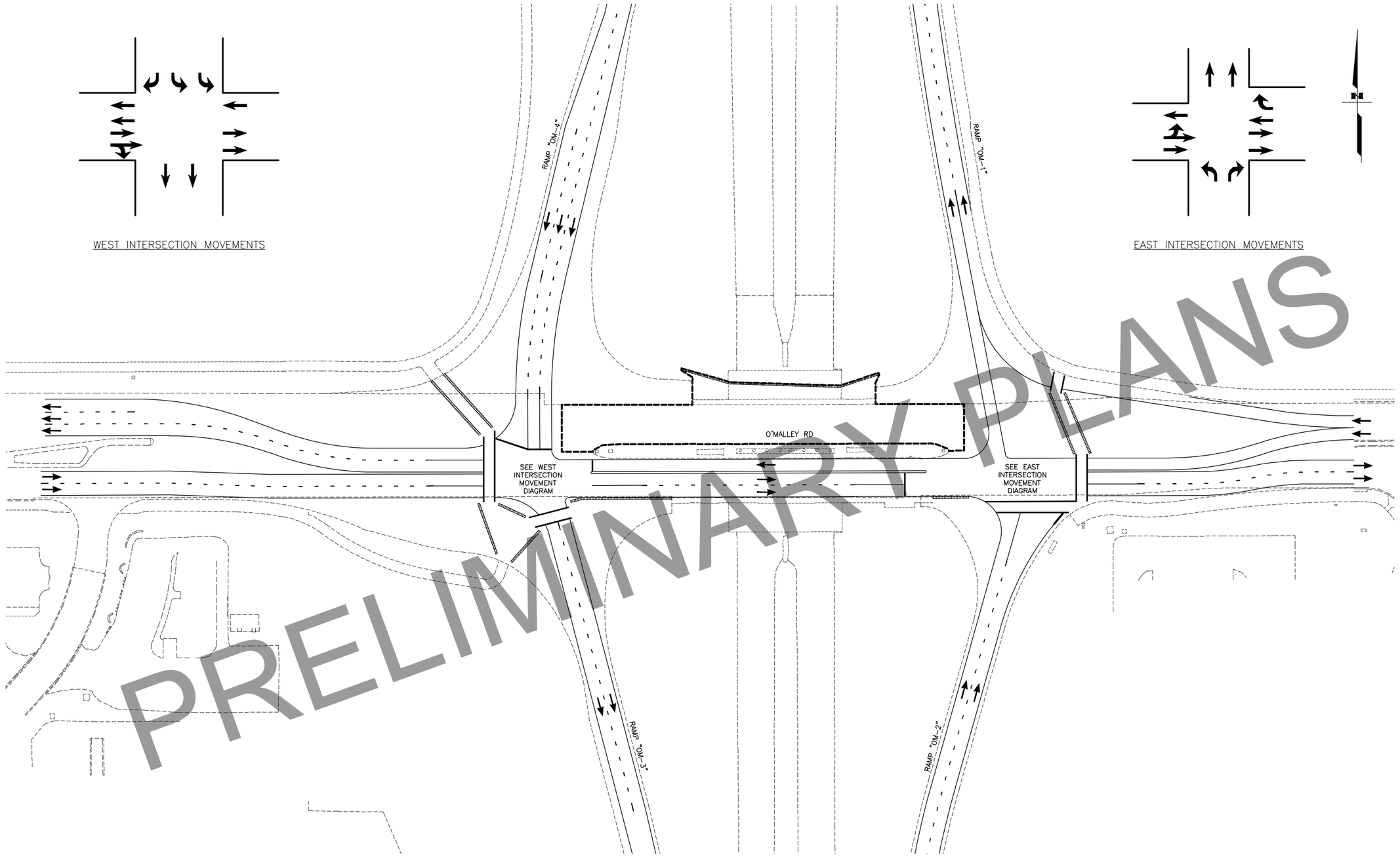
WEST INTERSECTION MOVEMENTS

EAST INTERSECTION MOVEMENTS



STAGE 5A O'MALLEY ROAD

WORK TASK:
PREPARE O'MALLEY ROAD FOR TRAFFIC SHIFT; INSTALL TEMPORARY STRIPING, PLACE CHANNELIZING DEVICES, TEMPORARY PEDESTRIAN BARRICADES AND TEMPORARY SIGNALS

OPEN DETOUR TO SHIFT TRAFFIC UNDER BRIDGE TO SOUTH SIDE OF MEDIAN ISLAND

CONSTRUCT NORTH SIDE OF O'MALLEY ROAD WITHIN CONSTRUCTION ZONE, INCLUDING SOIL NAIL WALL

LEGEND

→	TRAFFIC FLOW
⬚	CONSTRUCTION ZONE

SHEET NO.	TOTAL SHEETS
J101	J104
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
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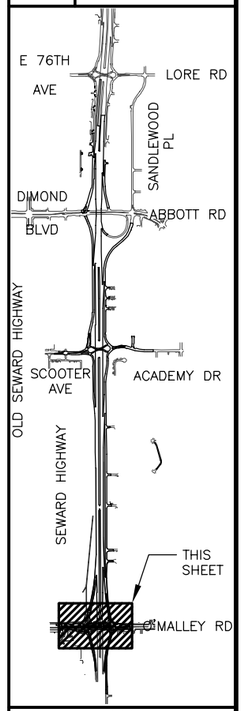
DATE	



STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
O'MALLEY ROAD
STAGE 5A

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/5/2022 11:23 PM	J101	JM	MR	RM

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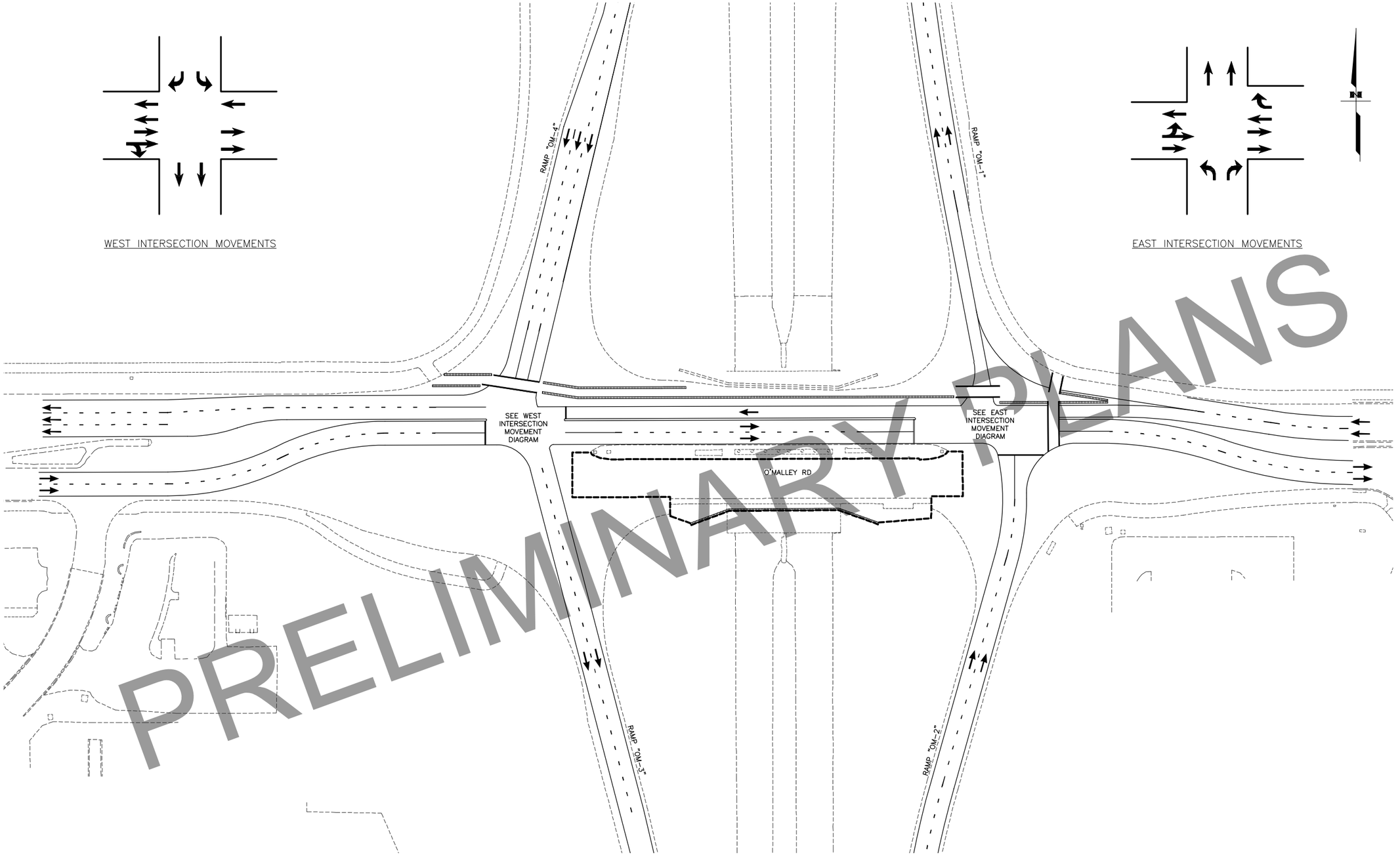
WEST INTERSECTION MOVEMENTS

EAST INTERSECTION MOVEMENTS

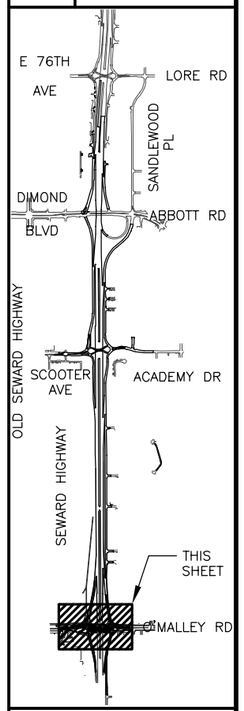


STAGE 5B O'MALLEY ROAD
WORK TASK: PREPARE O'MALLEY ROAD FOR TRAFFIC SHIFT; INSTALL TEMPORARY STRIPING, PLACE CHANNELIZING DEVICES, TEMPORARY PEDESTRIAN BARRICADES AND RELOCATE TEMPORARY SIGNALS OPEN DETOUR TO SHIFT TRAFFIC UNDER BRIDGE TO NORTH SIDE OF MEDIAN ISLAND CONSTRUCT SOUTH SIDE OF O'MALLEY ROAD WITHIN CONSTRUCTION ZONE, INCLUDING SOIL NAIL WALL

LEGEND	
→	TRAFFIC FLOW
▭	CONSTRUCTION ZONE

SHEET NO.	TOTAL SHEETS
J102	J104
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
O'MALLEY ROAD
STAGE 5B

DATE/TIME	LAYOUT	DESIGNED	CHECKED	DRAFTED
4/5/2022 11:24 PM	J102	JM	MR	RM

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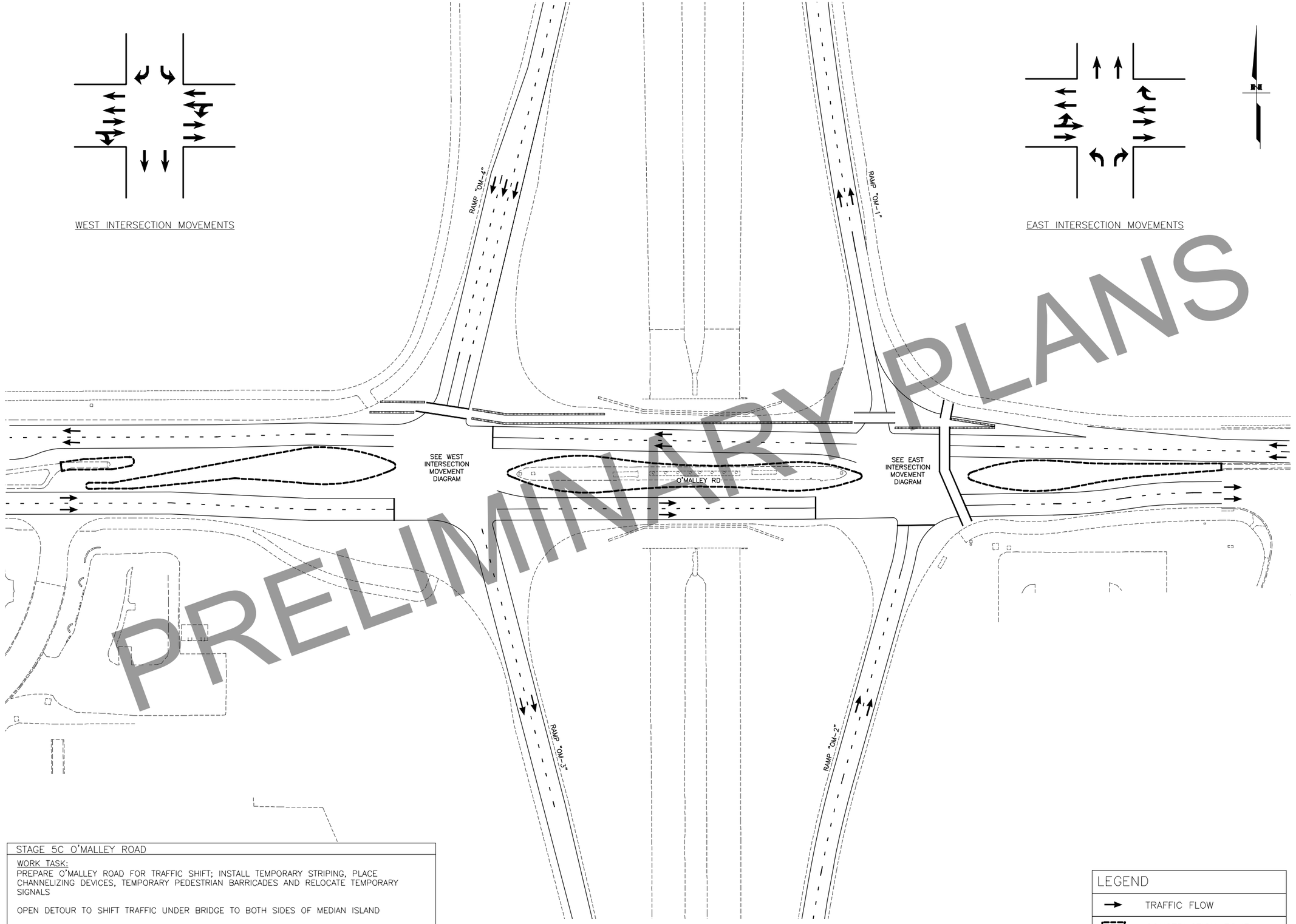
WEST INTERSECTION MOVEMENTS

EAST INTERSECTION MOVEMENTS



STAGE 5C O'MALLEY ROAD

WORK TASK:
PREPARE O'MALLEY ROAD FOR TRAFFIC SHIFT; INSTALL TEMPORARY STRIPING, PLACE CHANNELIZING DEVICES, TEMPORARY PEDESTRIAN BARRICADES AND RELOCATE TEMPORARY SIGNALS

OPEN DETOUR TO SHIFT TRAFFIC UNDER BRIDGE TO BOTH SIDES OF MEDIAN ISLAND

PERFORM NIGHT CLOSURES AS NECESSARY TO CONSTRUCT MEDIAN ISLANDS

LEGEND

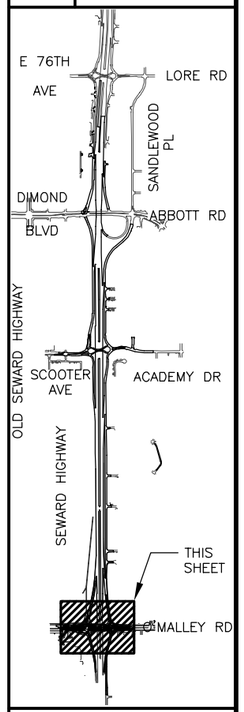
- TRAFFIC FLOW
- CONSTRUCTION ZONE

SHEET NO.	TOTAL SHEETS
J103	J104
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
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APRIL 2022
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
O'MALLEY ROAD
STAGE 5C

DATE/TIME 4/5/2022 11:24 PM | LAYOUT J103 | DESIGNED JM | CHECKED MR | DRAFTED RM

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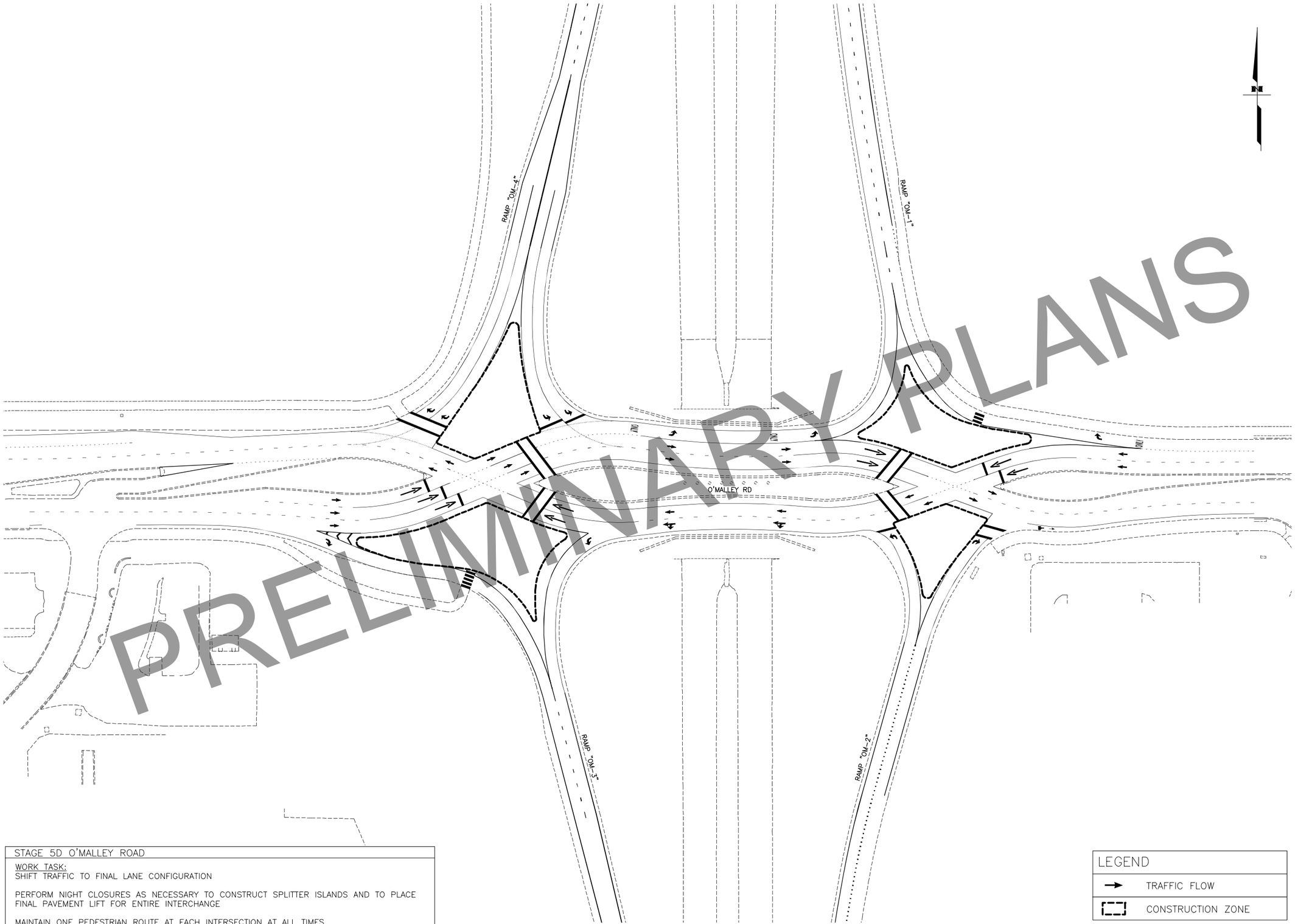

SHEET NO.	TOTAL SHEETS
J104	J104
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
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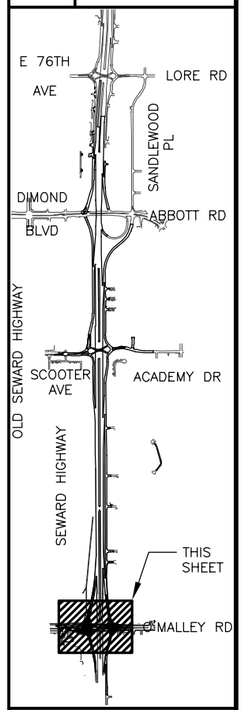
NO.	REVISION
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

TRAFFIC ROUTING PLAN
O'MALLEY ROAD
STAGE 5D

STAGE 5D O'MALLEY ROAD

WORK TASK:
SHIFT TRAFFIC TO FINAL LANE CONFIGURATION

PERFORM NIGHT CLOSURES AS NECESSARY TO CONSTRUCT SPLITTER ISLANDS AND TO PLACE FINAL PAVEMENT LIFT FOR ENTIRE INTERCHANGE

MAINTAIN ONE PEDESTRIAN ROUTE AT EACH INTERSECTION AT ALL TIMES

LEGEND

→	TRAFFIC FLOW
⬚	CONSTRUCTION ZONE

DATE/TIME	4/5/2022 11:24 PM
LAYOUT	J104
DESIGNED	JM
CHECKED	MR
DRAFTED	RM

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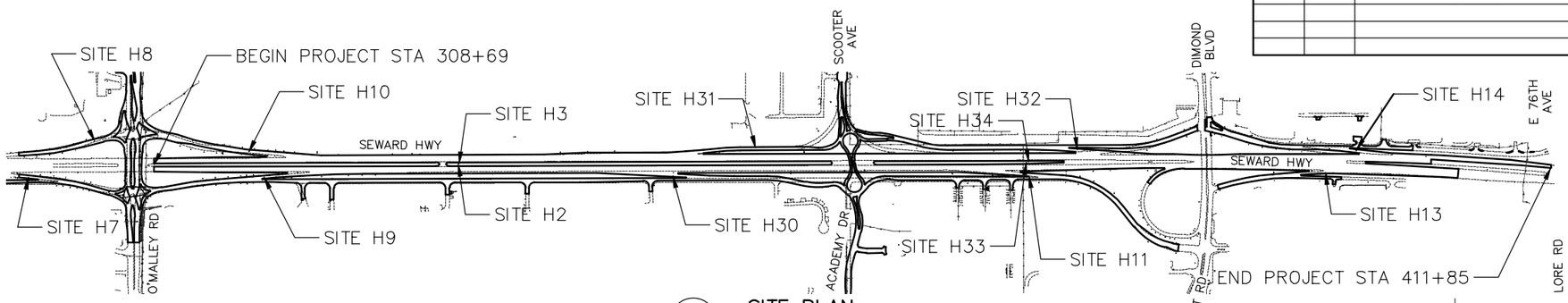
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K1	K20



1 SITE PLAN
NTS

DRAWING SHEET INDEX

GENERAL NOTES

1. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE, ALASKA DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND LOCAL AMENDMENTS.
2. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE. HOWEVER THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
3. PVC FROM JUNCTION BOXES TO TRAFFIC LOOPS IS NOT ALLOWED. USE ONLY RMC.
4. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
5. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J–BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.

INDUCTIVE LOOPS

ALL INDUCTIVE LOOPS SHALL BE WOUND IN THE SAME DIRECTION WITH THE STARTING LEAD MARKED "S" PER SECTION 660–3.05.13.

LEAD–IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX. THESE CONDUITS SHALL BE SEPARATE FROM OTHER LOOPS BY A MINIMUM OF 12 INCHES.

INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50 FEET OF THE LOOPS.

REFERENCE SPECIFICATIONS

ALL WIRING IN THIS SECTION SHALL BE CONSTRUCTED PER SPECIFICATION SECTION 660 SIGNALS AND LIGHTING, EXCEPT WHERE NOTED ON PLANS OR IN THE SPECIAL PROVISIONS. IN PARTICULAR, ALL CONSTRUCTION SHALL CONFORM TO SPECIFICATION SECTIONS 660–3.03 CONDUIT, 660–3.04 JUNCTION BOXES, 660–3.05 CONDUCTORS, AND WIRING, 660–3.06 BONDING AND GROUNDING, AND 660–3.01.7 FIELD TEST, EXCEPT AS MODIFIED BY SECTION 669 AUTOMATED TRAFFIC RECORDERS.

PAVEMENT SENSOR ASSEMBLIES SCHEDULE

DATA SITE #	SITE LOCATION	COUNT SITE NUMBER	# OF LANES	# OF NEW PRESENCE LOOPS	# OF NEW PIEZO SENSORS	CONTROL CABINET TYPE	CONTROL CABINET STATION OFFSET	REMARKS
H2	NB SEWARD HIGHWAY AVC NORTH OF O'MALLEY ROAD, STA "ML" 331+21	5308001	3	6	0	CBA1	331+21 83' RT	REPLACE EXISTING SITE
H3	SB SEWARD HIGHWAY AVC NORTH OF O'MALLEY ROAD, STA "ML" 331+16	52308000	3	6	0	CBA1	331+16 10' LT	REPLACE EXISTING SITE
H7	O'MALLEY NB OFF RAMP, STA "OM–2" 2200+80	53216000	2	2	0	CBA1	2200+80 32' RT	REPLACE EXISTING SITE
H8	O'MALLEY SB ON RAMP, STA "OM–3" 2306+00	53120000	1	1	0	CBA1	2300+53 23' LT	REPLACE EXISTING SITE
H9	O'MALLEY NB ON RAMP, STA "OM–1" 2110+64	X53219000	2	2	0	CBA1	2110+68 23' RT	REPLACE EXISTING SITE
H10	O'MALLEY SB OFF RAMP, STA "OM–4" 2408+42	53112000	2	2	0	CBA1	2408+42 69' LT	REPLACE EXISTING SITE
H11	DIMOND NB OFF RAMP, STA "DI–2" 4205+58	53224000	2	2	0	CBA1	4204+46 30' LT	REPLACE EXISTING SITE
H13	DIMOND NB ON RAMP, STA "DI–1" 4108+77	53212000	2	2	0	CBA1	4108+77 11' RT	REPLACE EXISTING SITE
H14	DIMOND SB OFF RAMP, STA "DI–4" 4411+61	53103000	2	2	0	CBA1	4411+61 11' LT	REPLACE EXISTING SITE
H30	SCOOTER NB OFF RAMP, STA "SA–2" 3206+01	NEW	2	2	0	CBA1	3206+01 11' RT	NEW SITE
H31	SCOOTER SB ON RAMP, STA "SA–3" 3312+60	53110000	1	1	0	CBA1	3312+60 11' LT	REPLACE EXISTING SITE
H32	SCOOTER SB OFF RAMP, STA "SA–4" 3417+09	53110001	2	2	0	CBA1	3417+09 19' RT	REPLACE EXISTING SITE
H33	NB SEWARD HIGHWAY BETWEEN SCOOTER AND DIMOND, STA "ML" 373+30	53223000	4	7	0	CBA1	373+30 68' LT	REPLACE EXISTING SITE
H34	SB SEWARD HIGHWAY BETWEEN SCOOTER AND DIMOND, STA "ML" 373+11	53223000	3	6	0	CBA1	373+11 9' LT	REPLACE EXISTING SITE

LABELS

ALL CABLES SHALL BE LABELED AT BOTH ENDS AND AT EVERY JUNCTION BOX THROUGH WHICH THE CABLES PASS, PER SPECIFICATION 660–3.05(13).

ALL WIRE PAIRS SHALL BE LABELED AT THE TERMINAL BLOCK AND AT ANY LOOSE ENDS.

THE FOLLOWING CONVENTIONS SHALL APPLY TO DESIGNATING AND LABELING CABLES AND WIRE PAIRS:

LANES: TRAFFIC LINES AND THEIR RESPECTIVE LOOPS AND SENSORS SHALL BE LABELED FROM THE OUTSIDE EDGE OF THE ROAD TOWARD THE CENTER AS FOLLOWS:

A	B	C	D		D	C	B	A

TERMINAL BLOCKS: WIRES FROM SENSORS PLACED IN LANES WHICH ARE CLOSEST TO THE CONTROL BOX SHALL BE PLACED IN THE TERMINAL BLOCK TO MATCH THE ORIENTATION TO THE ROADWAY.

WIRES FOR INDUCTIVE LOOPS AND RESERVED ARE LABELED AS FOLLOWS:

PnDLc

WHERE:

P IS THE PREFIX:
- V TRAFFIC VOLUME LOOP
- H VEHICLE CLASSIFICATION / SPEED LOOP
- GL AUTOMATIC VEHICLE CLASSIFICATION (AVC) SENSOR
- Ga AUTOMATIC VEHICLE CLASSIFICATION PIEZO

n NUMBER SUFFIX FOR MULTIPLE LOOPS IN THE SAME LANE

D DIRECTION (N,S,E,W, NE,SE,SW,NW)

L IS THE PREFIX FOR ROAD DESIGNATION
- L – LANE*
- R – RAMP**
- SR – SPUR RAMP**
- LP – LOOP**
- LR – LOOP RAMP**
- * – ROADS AND HIGHWAYS
- ** – INTERCHANGES

c IS THE SUFFIX FOR LANE DESIGNATION (A, B, C, D)

(13) CONDUIT REFERENCE NUMBER

[X] NOTE REFERENCE NUMBER

RMC RIGID METAL CONDUIT, GALVANIZED

IMC INTERMEDIATE METAL CONDUIT

(#/K#) – DETAIL NO. – DRAWN ON SHEET #

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762–1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ATR SITE PLAN AND NOTES

PB | DRAFTED | DW | CHECKED | SK | DESIGNED | K1 | LAYOUT | 4/8/2022 3:04 PM | DATE/TIME
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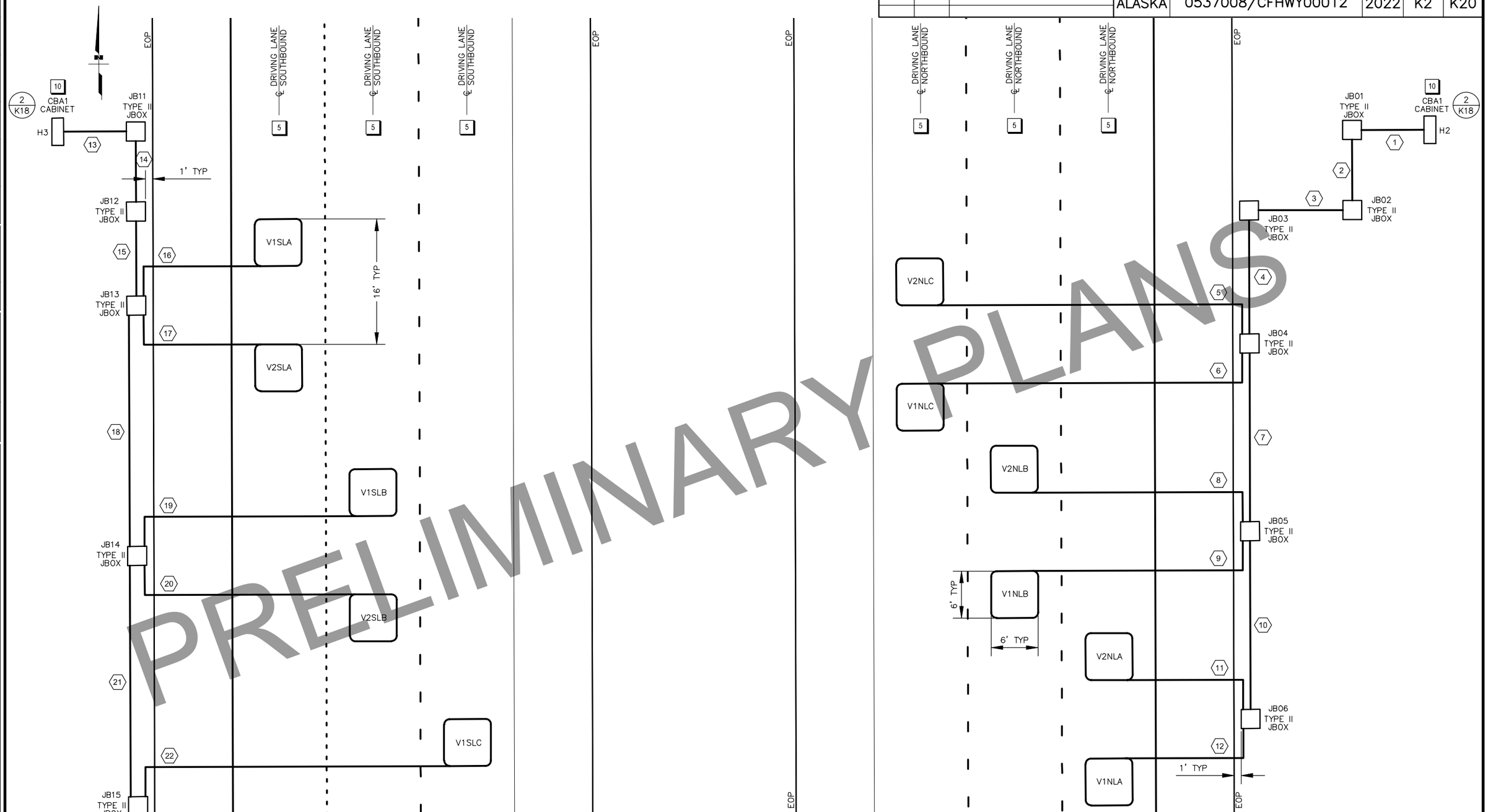
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K2	K20



PRELIMINARY

1 — H2 & H3 SENSOR, J-BOX AND CABINET LAYOUT

NTS

LAYOUT NOTES

1. SEE (1 / K3) FOR LAYOUT DETAILS.
2. SEE SHEETS K3 THRU K6 FOR ADDITIONAL LAYOUT NOTES

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H2 & H3 LAYOUT

PB | DRAFTED | DW | CHECKED | SK | DESIGNED | K2 | LAYOUT | 4/8/2022 3:06 PM | DATE/TIME

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K3	K20

ATR CONDUIT AVC CONDUCTOR SCHEDULE

	CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE		
					QTY	TYPE	NUMBER
H2 ATR	1	2	JB01	CBA1 CABINET	3	3PR #18	R07, R08, R09
	2	2	JB02	JB01	3	3PR #18	R07, R08, R09
	3	2	JB03	JB02	3	3PR #18	R07, R08, R09
	4	2	JB04	JB03	3	3PR #18	R07, R08, R09
	5	1	V2NLC	JB04	1	1PR#14	R06
	6	1	V1NLC	JB04	1	1PR#14	R05
	7	2	JB05	JB04	2	3PR #18	R07, R08
	8	1	V2NLB	JB05	1	1PR#14	R04
	9	1	V1NLB	JB05	1	1PR#14	R03
	10	2	JB06	JB05	1	3PR #18	R07
	11	1	V2NLA	JB06	1	1PR#14	R02
	12	1	V1NLA	JB06	1	1PR#14	R01

LAYOUT NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT BETWEEN SENSORS ON BOTH OUTER AND INNER LANE LOOPS AND PIEZOELECTRIC SENSORS AND THE FIRST JBOX CONNECTION SHALL BE 1" RMC. ALL OTHER CONDUIT SHALL BE 2" SCHEDULE 80 PVC.
2. INSTALL 1/2 INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN JBOX AND PAVEMENT WHEN JBOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. N/A
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 1 FOOT. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. N/A
9. N/A.
10. CABINET DOOR TO OPEN AWAY FROM ROADWAY.

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H2 ATR CONDUIT AVC CONDUCTOR SCHEDULE

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K4	K20

ATR CONDUIT AVC CONDUCTOR SCHEDULE

	CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE		
					QTY	TYPE	NUMBER
H3 ATR	13	2	JB11	CBA1 CABINET	3	3PR #18	R16,R17,R18
	14	2	JB12	JB11	3	3PR #18	R16,R17,R18
	15	2	JB13	JB12	3	3PR #18	R16,R17,R18
	16	1	V1SLA	JB13	1	1PR#14	R10
	17	1	V2SLA	JB13	1	1PR#14	R11
	18	2	JB14	JB13	2	3PR #18	R16,R17
	19	1	V1SLB	JB14	1	1PR#14	R12
	20	1	V2SLB	JB14	1	1PR#14	R13
	21	2	JB15	JB14	1	3PR #18	R16
	22	1	V1SLC	JB15	1	1PR#14	R14
	23	1	V2SLC	JB15	1	1PR#14	R15

LAYOUT NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT BETWEEN SENSORS ON BOTH OUTER AND INNER LANE LOOPS AND PIEZOELECTRIC SENSORS AND THE FIRST JBOX CONNECTION SHALL BE 1" RMC. ALL OTHER CONDUIT SHALL BE 2" SCHEDULE 80 PVC.
2. INSTALL 1/2 INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN JBOX AND PAVEMENT WHEN JBOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. N/A
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 1 FOOT. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. N/A
9. N/A
10. CABINET DOOR TO OPEN AWAY FROM ROADWAY.

STATE OF ALASKA
49TH
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H3 ATR CONDUIT AVC CONDUCTOR SCHEDULE

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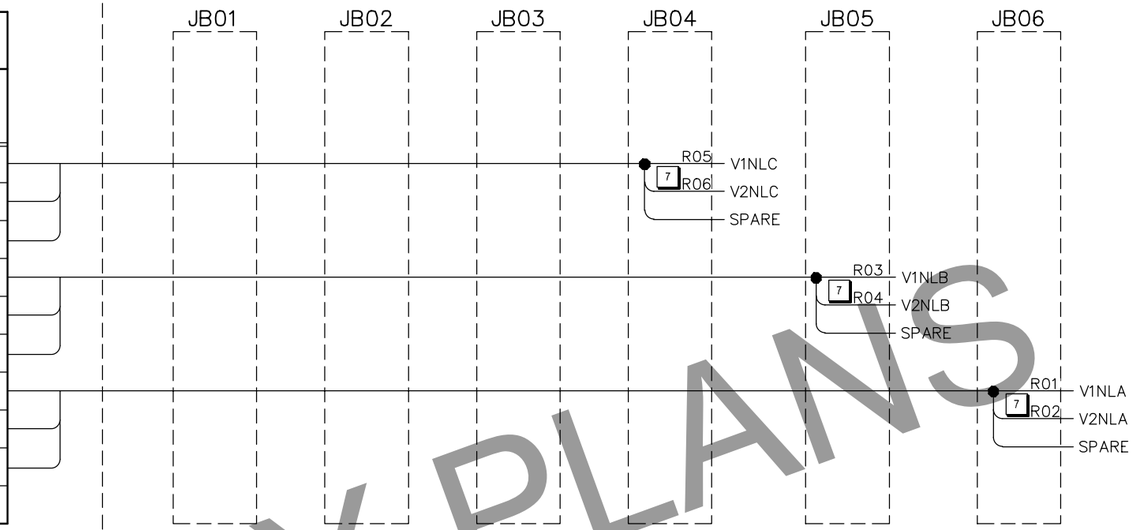
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K5	K20

CBA CABINET FOR ATR

H2 LANES TERMINAL BLOCK - LOOPS

PIN NO.	ASSIGNMENT	CONDUCTOR PAIR NO.	TYPE	TO JUNCTION BOX
1	V2NLC	R09 - 1	3 PR. # 18	JB04
2				
3	V1NLC	R09 - 2		JB04
4				
5	SPARE	R09 - 3		JB04
6				
7	V2NLB	R08 - 1	3 PR. # 18	JB05
8				
9	V1NLB	R08 - 2		JB05
10				
11	SPARE	R08 - 3		JB05
12				
13	V2NLA	R07 - 1	3 PR. # 18	JB06
14				
15	V1NLA	R07 - 2		JB06
16				
17	SPARE	R07 - 3		JB06
18				
19	SPARE			
20				



FOR SOUTHBOUND WIRING, SEE SHEET K6

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H2
WIRING DIAGRAM

PB | DRAFTED | DW | CHECKED | SK | DESIGNED | K5 | LAYOUT | 4/8/2022 3:06 PM | DATE/TIME

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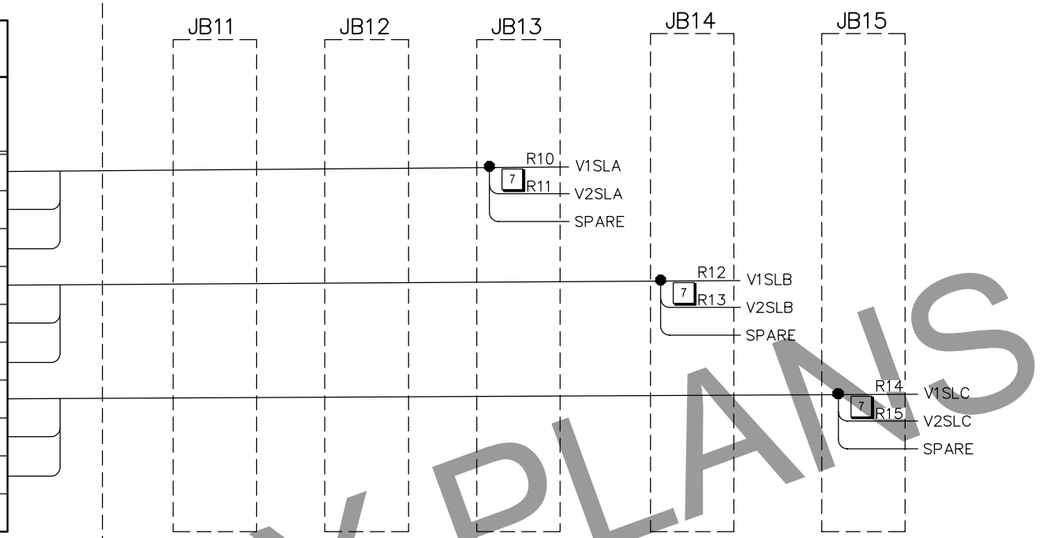
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K6	K20

CBA CABINET FOR ATR

H3 LANES TERMINAL BLOCK - LOOPS

PIN NO.	ASSIGNMENT	CONDUCTOR PAIR NO.	TYPE	TO JUNCTION BOX
1	V1SLA	R18 - 1	3 PR. # 18	JB13
2				
3	V2SLA	R18 - 2		JB13
4				
5	SPARE	R18 - 3		JB13
6				
7	V1SLB	R17 - 1	3 PR. # 18	JB14
8				
9	V2SLB	R17 - 2		JB14
10				
11	SPARE	R17 - 3		JB14
12				
13	V1SLC	R16 - 1	3 PR. # 18	JB15
14				
15	V2SLC	R16 - 2		JB15
16				
17	SPARE	R16 - 3		JB15
18				
19	SPARE			
20				



FOR NORTHBOUND WIRING, SEE SHEET K5

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
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JACOBS ENGINEERING GROUP, INC.
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H3
WIRING DIAGRAM

PB | DRAFTED | DW | CHECKED | SK | DESIGNED | K6 | LAYOUT | 4/8/2022 3:07 PM | DATE/TIME

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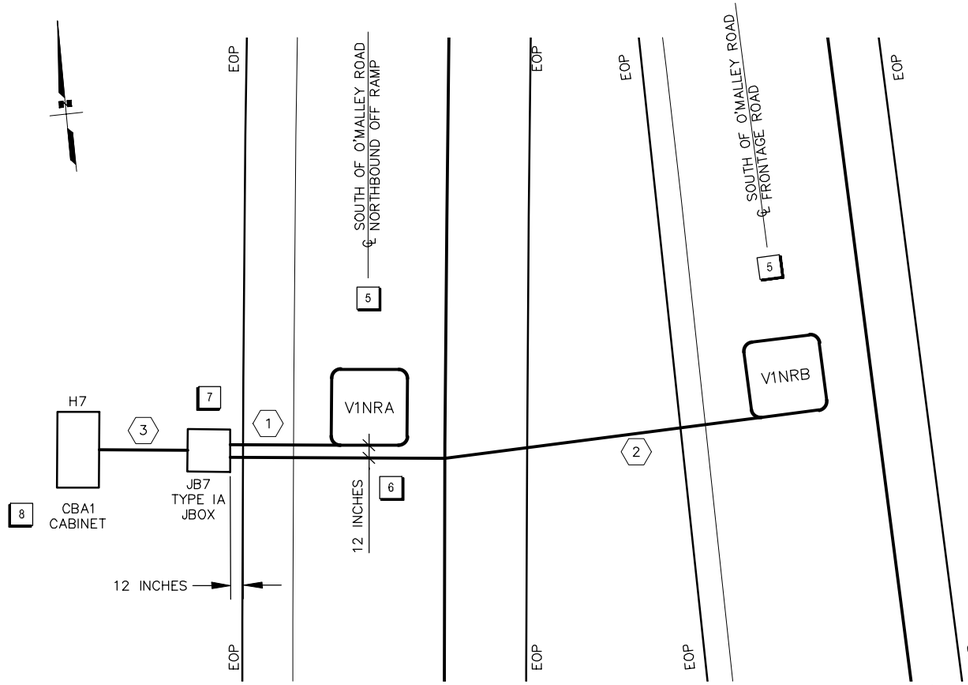
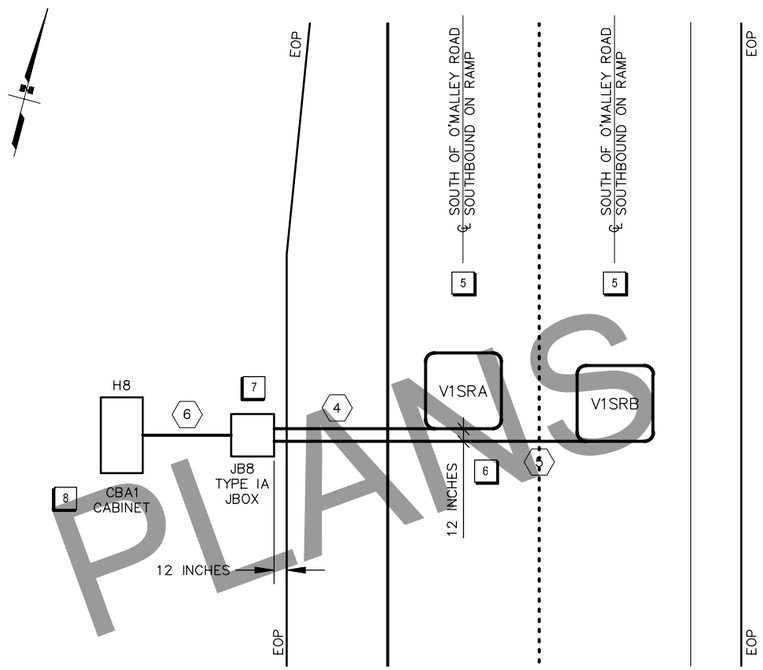
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K7	K20



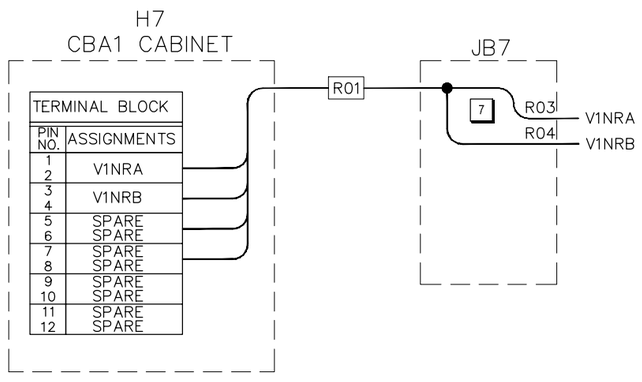


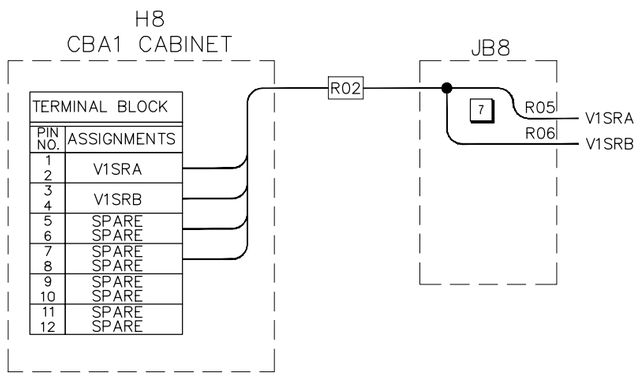
1 — H7 & H8 SENSOR, J-BOX AND CABINET LAYOUT

NTS

H7 & H8 CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE QTY	CABLE TYPE	CABLE NUMBER
1	1	JB7	V1NRA	1	1PR #14 [9]	R03
2	1	JB7	V1NRB	1	1PR #14 [9]	R04
3	2	H7, CBA1	JB7	1	4PR #18	R01
4	1	JB8	V1SRA	1	1PR #14 [9]	R05
5	1	JB8	VISRB	1	1PR #14 [9]	R06
6	2	H8,CBA1	JB8	1	4PR #18	R02





LAYOUT NOTES

1. ALL CONDUIT AND FITTINGS SHALL BE 1" RMC.
2. INSTALL ½ INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN J-BOX AND PAVEMENT WHEN J-BOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING PAVEMENT.
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 12 INCHES. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. CABINET DOOR TO OPEN AWAY FROM ROADWAY.
9. TWIST TAIL WIRES 3 TURNS/FOOT.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H7 & H8 LAYOUT, CONDUIT & CONDUCTOR SCHEDULE, AND WIRING DIAGRAM

DATE/TIME 4/8/2022 3:07 PM | LAYOUT K7 | DESIGNED SK | CHECKED DW | DRAFTED PB
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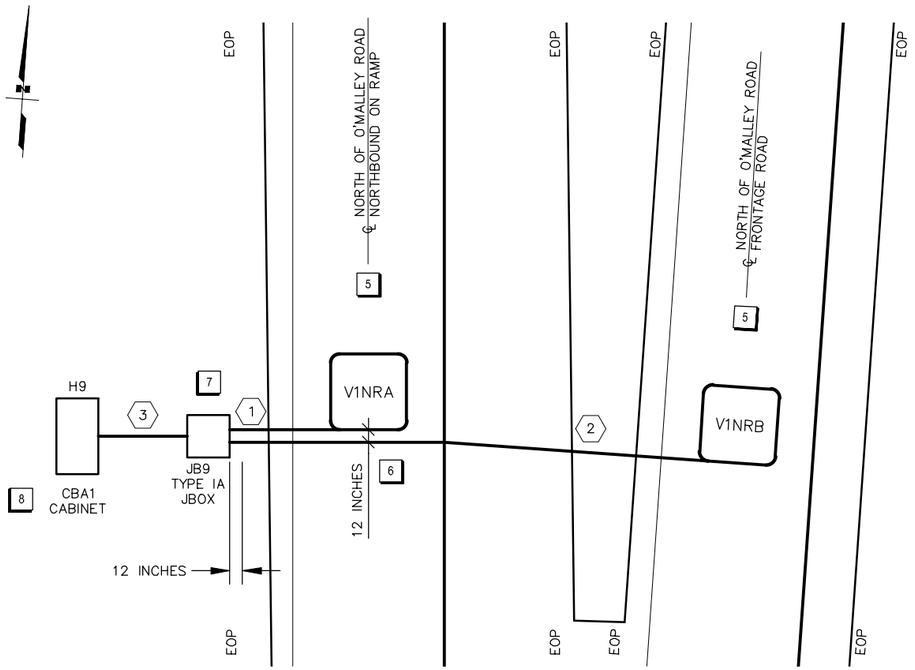
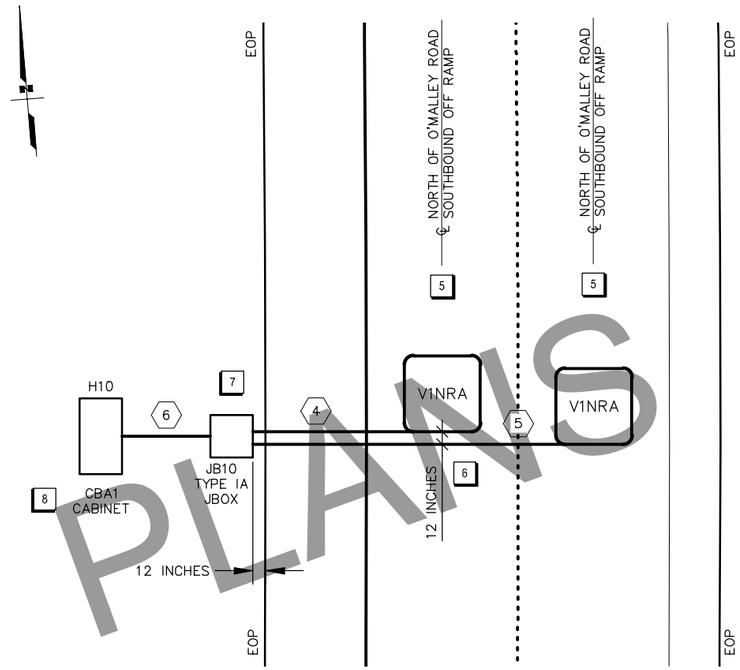
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K8	K20

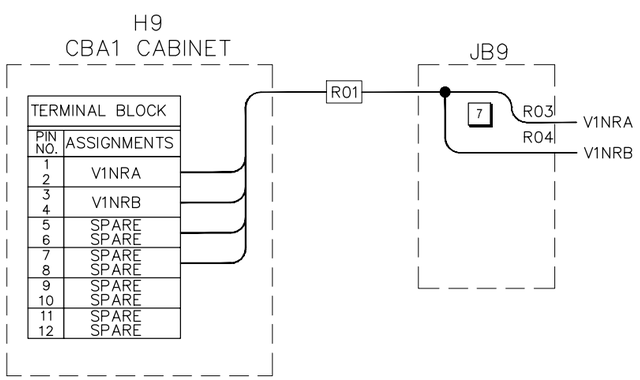


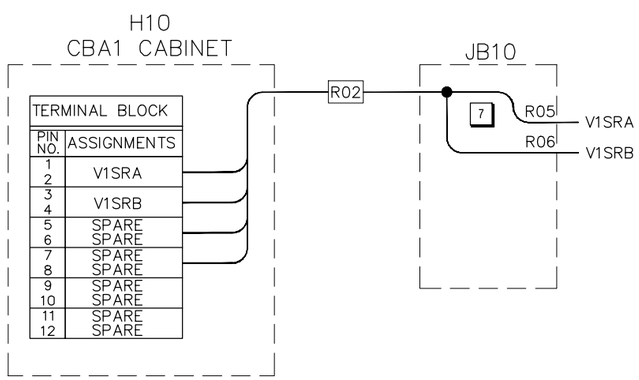


1 — H9 & H10 SENSOR, J–BOX AND CABINET LAYOUT
NTS

H9 & H10 CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE		
				QTY	TYPE	NUMBER
1	1	JB9	V1NRA	1	1PR #14 [9]	R03
2	1	JB9	V1NRB	1	1PR #14 [9]	R04
3	2	H9,CBA1	JB9	1	4PR #18	R01
4	1	JB10	V1SRA	1	1PR #14 [9]	R05
5	1	JB10	V1SRB	1	1PR #14 [9]	R06
6	2	H10,CBA1	JB10	1	4PR #18	R02





LAYOUT NOTES

1. ALL CONDUIT AND FITTINGS SHALL BE 1" RMC.
2. INSTALL ½ INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN J–BOX AND PAVEMENT WHEN J–BOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING PAVEMENT.

[5.] LOOPS TO BE CENTERED IN LANE.

[6.] MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 12 INCHES. SENSOR TAILS SHALL NOT CROSS EACH OTHER.

[7.] SPLICE LOOP WIRING TO MULTI–PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20

[8.] CABINET DOOR TO OPEN AWAY FROM ROADWAY.

[9.] TWIST TAIL WIRES 3 TURNS/FOOT.

STATE OF ALASKA
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

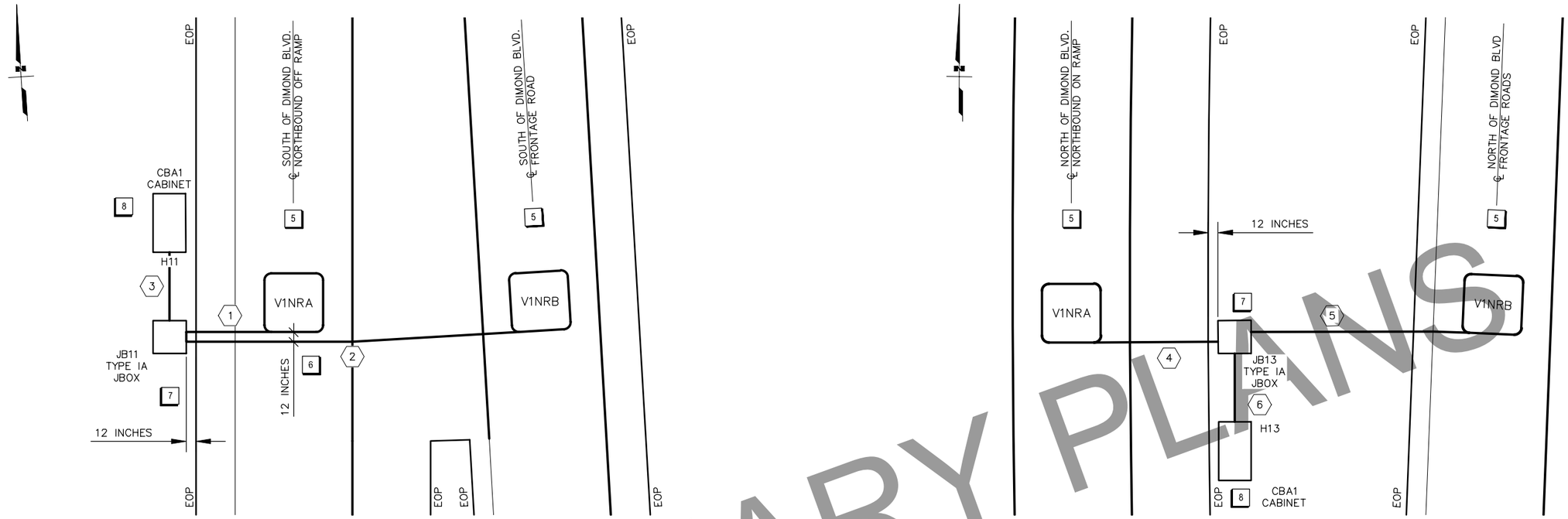
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H9 & H10 LAYOUT, CONDUIT & CONDUCTOR SCHEDULE, AND WIRING DIAGRAM

FILE: C:\PW_WORKDIR\DEN001\CH2MHILL_BP071319\D1357000\00012_K08.DWG
DATE/TIME: 4/8/2022 3:07 PM | LAYOUT: K8 | DESIGNED: SK | CHECKED: DW | DRAFTED: PB

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K9	K20

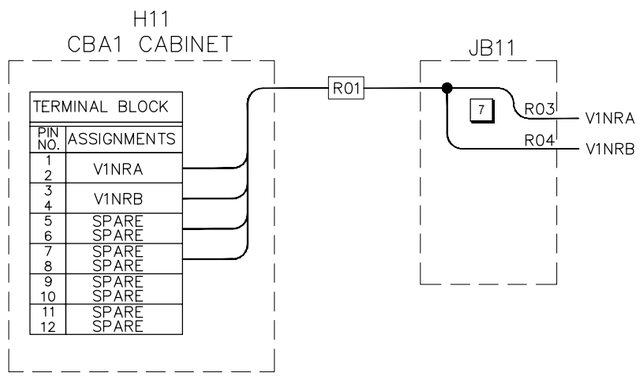


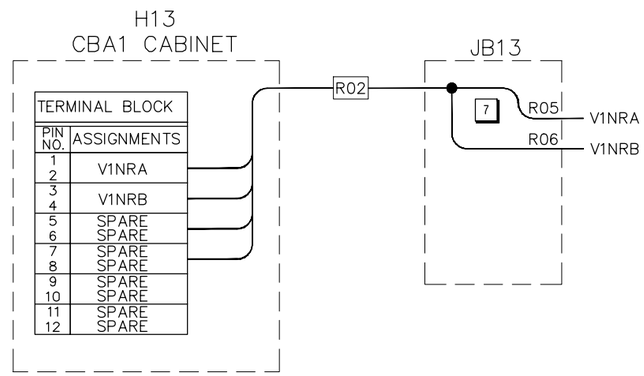
1 — H11 & H13 SENSOR, J-BOX AND CABINET LAYOUT

NTS

H11 & H13 CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE QTY	CABLE TYPE	CABLE NUMBER
1	1	JB11	V1NRA	1	1PR #14 [9]	R03
2	1	JB11	V1NRB	1	1PR #14 [9]	R04
3	2	H11,CBA1	JB11	1	4PR #18	R01
4	1	JB13	V1NRA	1	1PR #14 [9]	R05
5	1	JB13	V1NRB	1	1PR #14 [9]	R06
6	2	H13,CBA1	JB13	1	4PR #18	R02





LAYOUT NOTES

1. ALL CONDUIT AND FITTINGS SHALL BE 1" RMC.
2. INSTALL ½ INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN J-BOX AND PAVEMENT WHEN J-BOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING PAVEMENT.
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 12 INCHES. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. CABINET DOOR TO OPEN AWAY FROM ROADWAY.
9. TWIST TAIL WIRES 3 TURNS/FOOT.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H11 & H13 LAYOUT, CONDUIT & CONDUCTOR SCHEDULE, AND WIRING DIAGRAM

DATE/TIME 4/8/2022 3:07 PM | LAYOUT K9 | DESIGNED SK | CHECKED DW | DRAFTED PB

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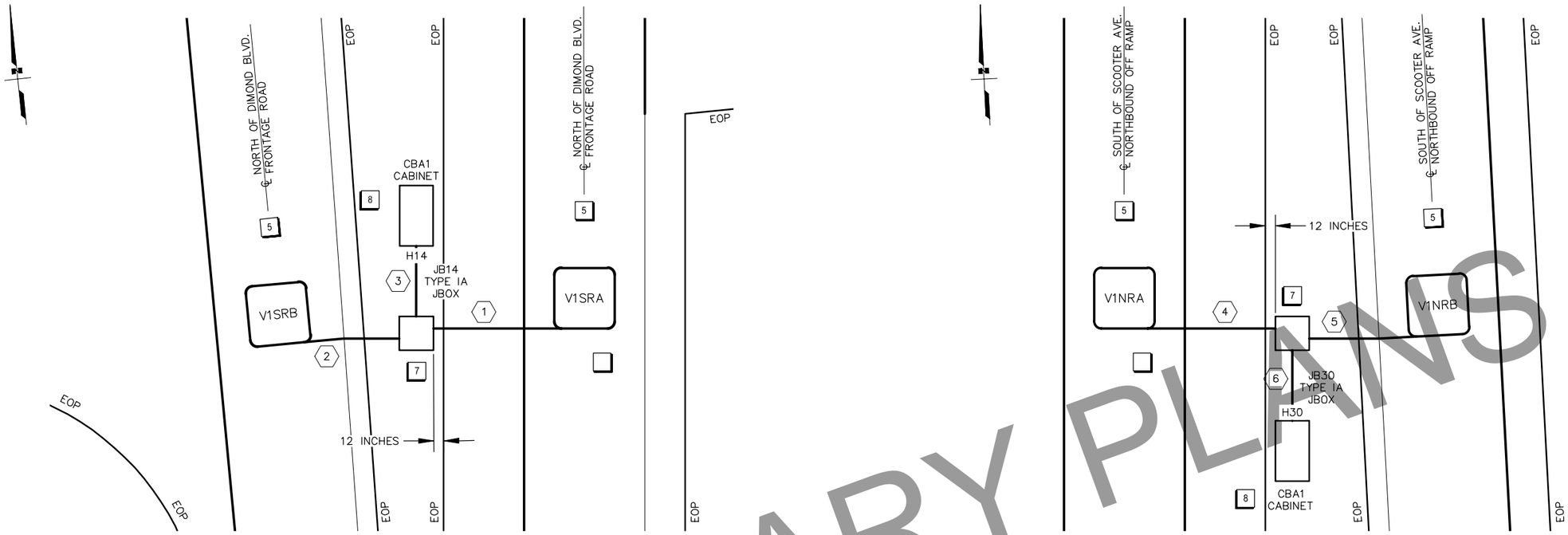
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K10	K20

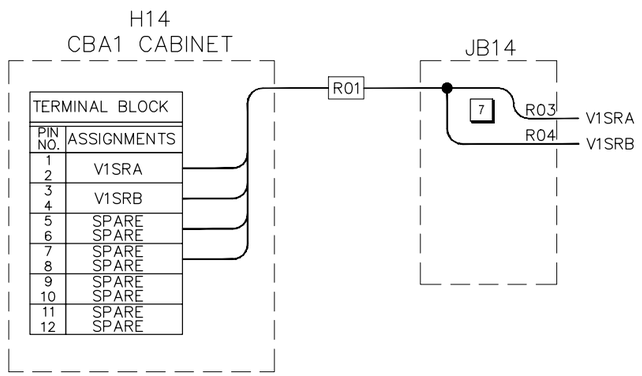


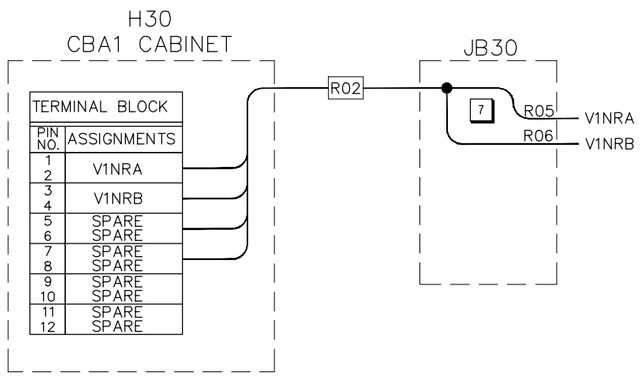
1 — H14 & H30 SENSOR, J-BOX AND CABINET LAYOUT

NTS

H14 & H30 CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE QTY	CABLE TYPE	CABLE NUMBER
1	1	JB14	V1SRA	1	1PR #14 [9]	R03
2	1	JB14	V1SRB	1	1PR #14 [9]	R04
3	2	H14,CBA1	JB14	1	4PR #18	R01
4	1	JB30	V1NRA	1	1PR #14 [9]	R05
5	1	JB30	V1NRB	1	1PR #14 [9]	R06
6	2	H30,CBA1	JB30	1	4PR #18	R02





LAYOUT NOTES

1. ALL CONDUIT AND FITTINGS SHALL BE 1" RMC.
2. INSTALL ½ INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN J-BOX AND PAVEMENT WHEN J-BOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING PAVEMENT.
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 12 INCHES. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. CABINET DOOR TO OPEN AWAY FROM ROADWAY.
9. TWIST TAIL WIRES 3 TURNS/FOOT.

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H14 & H30 LAYOUT, CONDUIT & CONDUCTOR SCHEDULE, AND WIRING DIAGRAM

DATE/TIME 4/8/2022 3:07 PM | LAYOUT K10 | DESIGNED SK | CHECKED DW | DRAFTED PB

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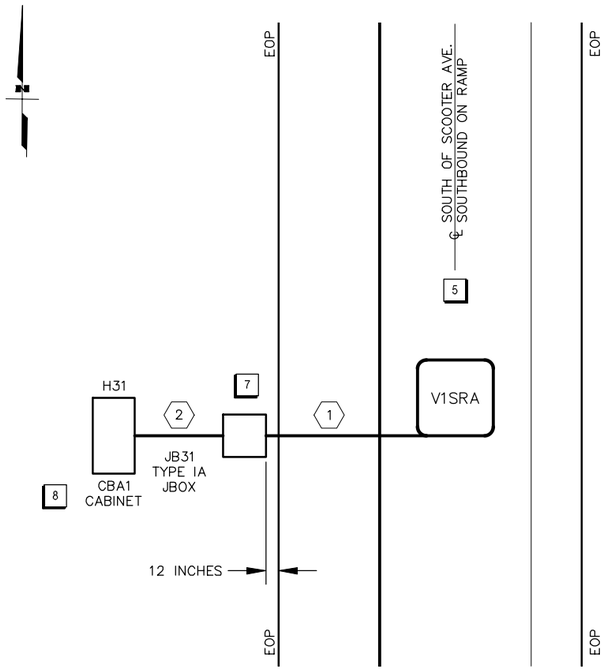
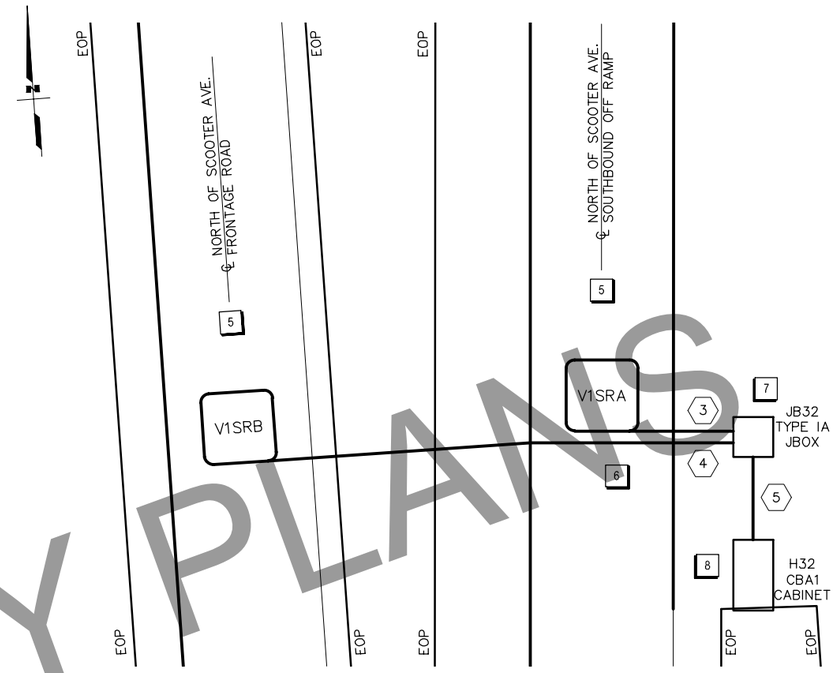
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K11	K20



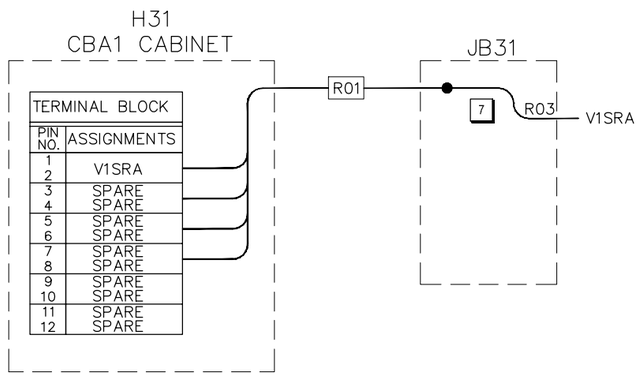


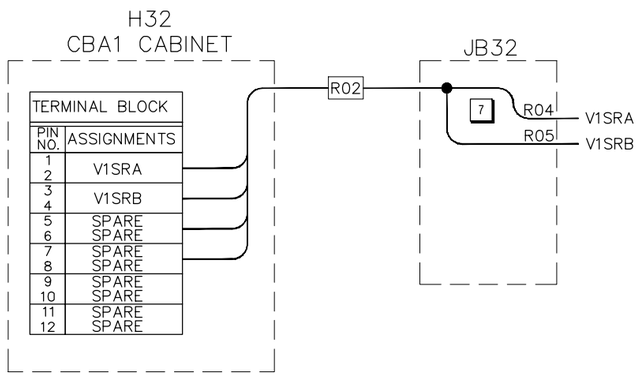
1 — H31 & H32 SENSOR, J-BOX AND CABINET LAYOUT

NTS

H31 & H32 CONDUIT AND CONDUCTOR SCHEDULE

CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE		
				QTY	TYPE	NUMBER
1	1	JB31	V1SRA	1	1PR #14 [9]	R03
2	2	H31, CBA1	JB31	1	4PR #18	R01
3	1	JB32	V1SRA	1	1PR #14 [9]	R04
4	1	JB32	V1SRB	1	1PR #14 [9]	R05
5	2	H32,CBA1	JB32	1	4PR #18	R02





LAYOUT NOTES

1. ALL PVC CONDUIT AND FITTINGS SHALL BE 1" RMC.
2. INSTALL ½ INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN J-BOX AND PAVEMENT WHEN J-BOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING PAVEMENT.
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 12 INCHES. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. CABINET DOOR TO OPEN AWAY FROM ROADWAY.
9. TWIST TAIL WIRES 3 TURNS/FOOT.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H31 & H32 LAYOUT, CONDUIT & CONDUCTOR SCHEDULE, AND WIRING DIAGRAM

DATE/TIME 4/8/2022 3:07 PM | LAYOUT K11 | DESIGNED SK | CHECKED DW | DRAFTED PB

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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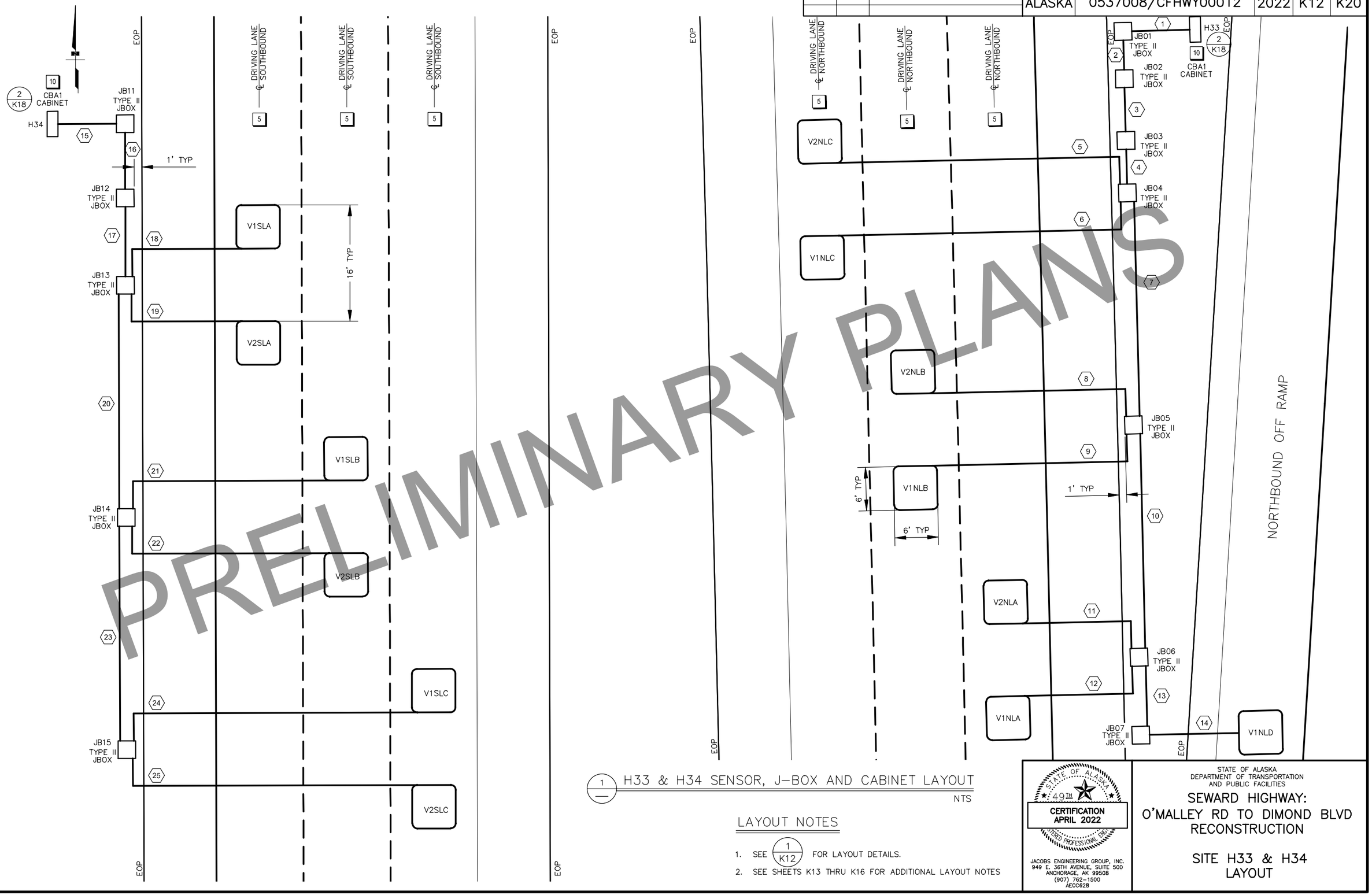

1 — H33 & H34 SENSOR, J-BOX AND CABINET LAYOUT
NTS

LAYOUT NOTES

1. SEE 1/K12 FOR LAYOUT DETAILS.
2. SEE SHEETS K13 THRU K16 FOR ADDITIONAL LAYOUT NOTES

STATE OF ALASKA
49TH
CERTIFICATION
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H33 & H34 LAYOUT

PB	DRAFTED	DW	CHECKED	SK	DESIGNED	K12	LAYOUT	4/8/2022 3:07 PM	DATE/TIME

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K13	K20

ATR CONDUIT AVC CONDUCTOR SCHEDULE

	CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE		
					QTY	TYPE	NUMBER
H33 ATR	1	2	JB01	CBA1 CABINET	4	3PR #18	R08, R09, R10, R11
	2	2	JB02	JB01	4	3PR #18	R08, R09, R10, R11
	3	2	JB03	JB02	4	3PR #18	R08, R09, R10, R11
	4	2	JB04	JB03	4	3PR #18	R08, R09, R10, R11
	5	1	V2NLC	JB04	1	1PR#14	R07
	6	1	V1NLC	JB04	1	1PR#14	R06
	7	2	JB05	JB04	3	3PR #18	R08, R09, R10
	8	1	V2NLB	JB05	1	1PR#14	R05
	9	1	V1NLB	JB05	1	1PR#14	R04
	10	2	JB06	JB05	2	3PR #18	R08, R09
	11	1	V2NLA	JB06	1	1PR#14	R03
	12	1	V1NLA	JB06	1	1PR#14	R02
	13	1	JB07	JB06	1	3PR #18	R08
	14	1	V1NLD	JB07	1	1PR#14	R01

LAYOUT NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT BETWEEN SENSORS ON BOTH OUTER AND INNER LANE LOOPS AND PIEZOELECTRIC SENSORS AND THE FIRST JBOX CONNECTION SHALL BE 1" RMC. ALL OTHER CONDUIT SHALL BE 2" SCHEDULE 80 PVC.
2. INSTALL 1/2 INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN JBOX AND PAVEMENT WHEN JBOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. N/A
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 1 FOOT. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. N/A
9. N/A
10. CABINET DOOR TO OPEN AWAY FROM ROADWAY.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H33 ATR CONDUIT AVC CONDUCTOR SCHEDULE

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K14	K20

ATR CONDUIT AVC CONDUCTOR SCHEDULE

	CONDUIT NO.	SIZE (IN.)	FROM	TO	CABLE		
					QTY	TYPE	NUMBER
H34 ATR	15	2	JB11	CBA1 CABINET	3	3PR #18	R18, R19, R20
	16	2	JB12	JB11	3	3PR #18	R18, R19, R20
	17	2	JB13	JB12	3	3PR #18	R18, R19, R20
	18	1	V1SLA	JB13	1	1PR#14	R12
	19	1	V2SLA	JB13	1	1PR#14	R13
	20	2	JB14	JB13	2	3PR #18	R18, R19
	21	1	V1SLB	JB14	1	1PR#14	R14
	22	1	V2SLB	JB14	1	1PR#14	R15
	23	2	JB15	JB14	1	3PR #18	R18
	24	1	V1SLC	JB15	1	1PR#14	R16
	25	1	V2SLC	JB15	1	1PR#14	R17

LAYOUT NOTES

1. UNLESS OTHERWISE NOTED, ALL CONDUIT BETWEEN SENSORS ON BOTH OUTER AND INNER LANE LOOPS AND PIEZOELECTRIC SENSORS AND THE FIRST JBOX CONNECTION SHALL BE 1" RMC. ALL OTHER CONDUIT SHALL BE 2" SCHEDULE 80 PVC.
2. INSTALL 1/2 INCH PREFORMED BITUMINOUS JOINT MATERIAL BETWEEN JBOX AND PAVEMENT WHEN JBOXES ARE LOCATED IMMEDIATELY ADJACENT TO A SIDEWALK OR ROAD SURFACE.
3. PROVIDE GROUNDING BUSHINGS ON ALL CONDUITS. GROUND WITH A MINIMUM #6 BARE CU.
4. N/A
5. LOOPS TO BE CENTERED IN LANE.
6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 1 FOOT. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE, WET LOCATION SPLICE. SEE DETAIL 1/K20
8. N/A
9. N/A
10. CABINET DOOR TO OPEN AWAY FROM ROADWAY.

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
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(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SITE H34 ATR CONDUIT
AVC CONDUCTOR SCHEDULE

DATE/TIME | 4/8/2022 3:07 PM | LAYOUT | K14 | DESIGNED | SK | CHECKED | DW | DRAFTED | PB
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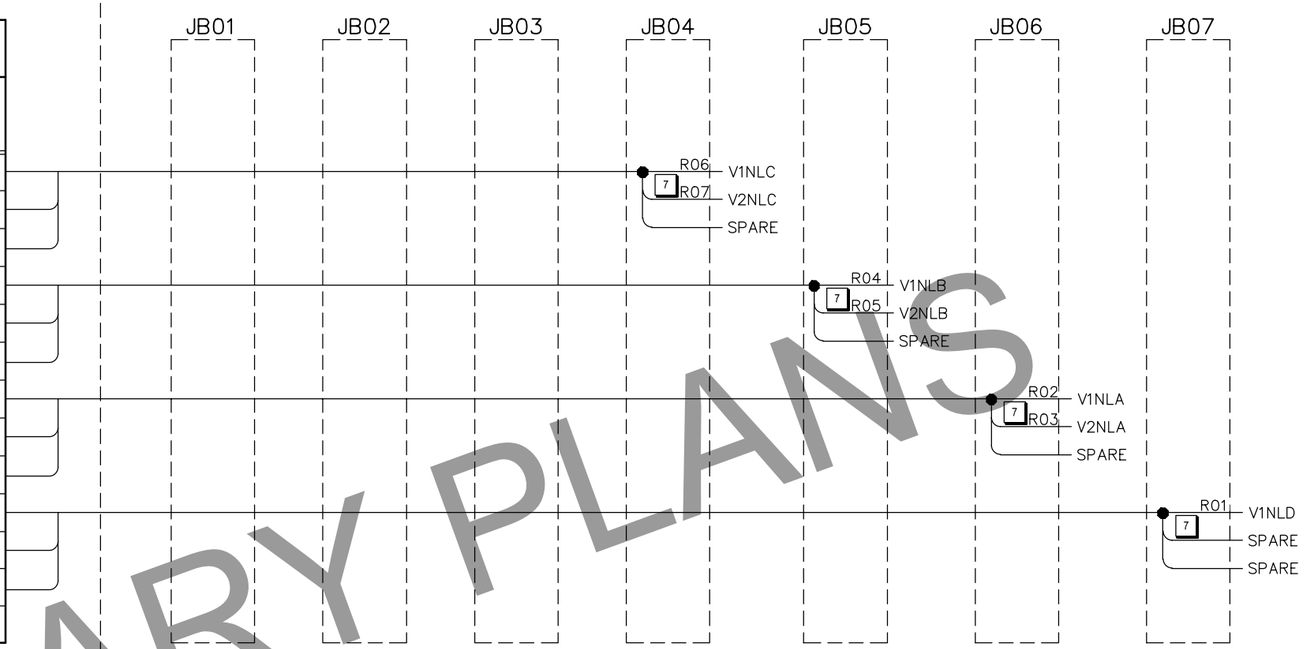
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K15	K20

CBA CABINET FOR ATR

H33 LANES TERMINAL BLOCK - LOOPS

PIN NO.	ASSIGNMENT	CONDUCTOR PAIR NO.	TYPE	TO JUNCTION BOX
1	V2NLC	R11 - 1	3 PR. # 18	JB04
2				
3	V1NLC	R11- 2		JB04
4				
5	SPARE	R11 - 3		JB04
6				
7	V2NLB	R10 - 1	3 PR. # 18	JB05
8				
9	V1NLB	R10 - 2		JB05
10				
11	SPARE	R10 - 3		JB05
12				
13	V2NLA	R09 - 1	3 PR. # 18	JB06
14				
15	V1NLA	R09 - 2		JB06
16				
17	SPARE	R09 - 3		JB06
18				
19	SPARE	R08 - 1	3 PR. # 18	JB07
20				
21	V1NLD	R08 - 2		JB07
22				
23	SPARE	R08 - 3		JB07
24				
25	SPARE			
26				



FOR SOUTHBOUND WIRING, SEE SHEET K16

STATE OF ALASKA
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGR.

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SITE H33
WIRING DIAGRAM

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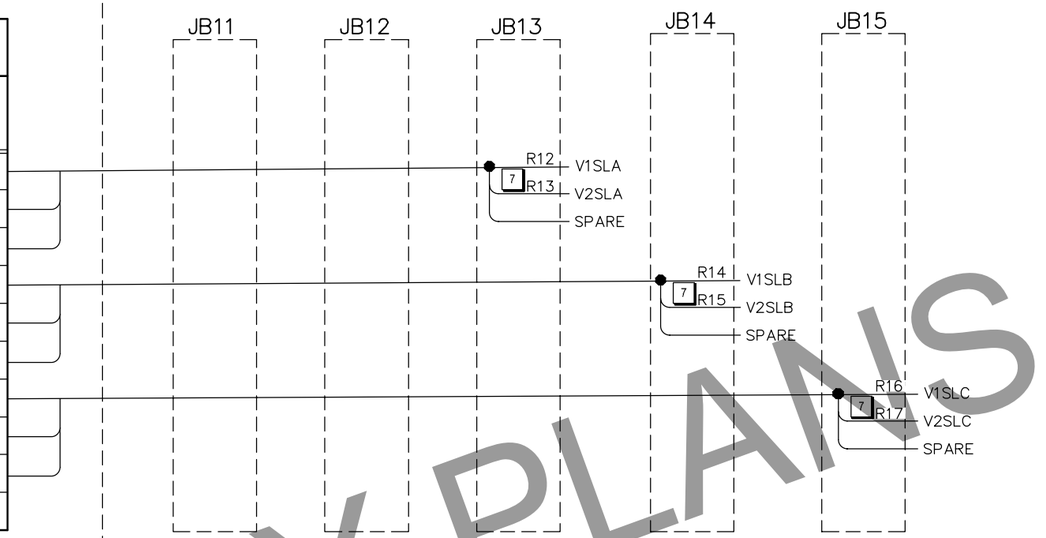
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	K16	K20

CBA CABINET FOR ATR

H34 LANES TERMINAL BLOCK - LOOPS

PIN NO.	ASSIGNMENT	CONDUCTOR PAIR NO.	TYPE	TO JUNCTION BOX
1	V1SLA	R20 - 1	3 PR. # 18	JB13
2				
3	V2SLA	R20 - 2		JB13
4				
5	SPARE	R20 - 3		JB13
6				
7	V1SLB	R19 - 1	3 PR. # 18	JB14
8				
9	V2SLB	R19 - 2		JB14
10				
11	SPARE	R19 - 3		JB14
12				
13	V1SLC	R18 - 1	3 PR. # 18	JB15
14				
15	V2SLC	R18 - 2		JB15
16				
17	SPARE	R18 - 3		JB15
18				
19	SPARE			
20				



FOR NORTHBOUND WIRING, SEE SHEET K15

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

SITE H34
WIRING DIAGRAM

PB | DRAFTED | DW | CHECKED | SK | DESIGNED | K16 | LAYOUT | 4/8/2022 3:07 PM | DATE/TIME
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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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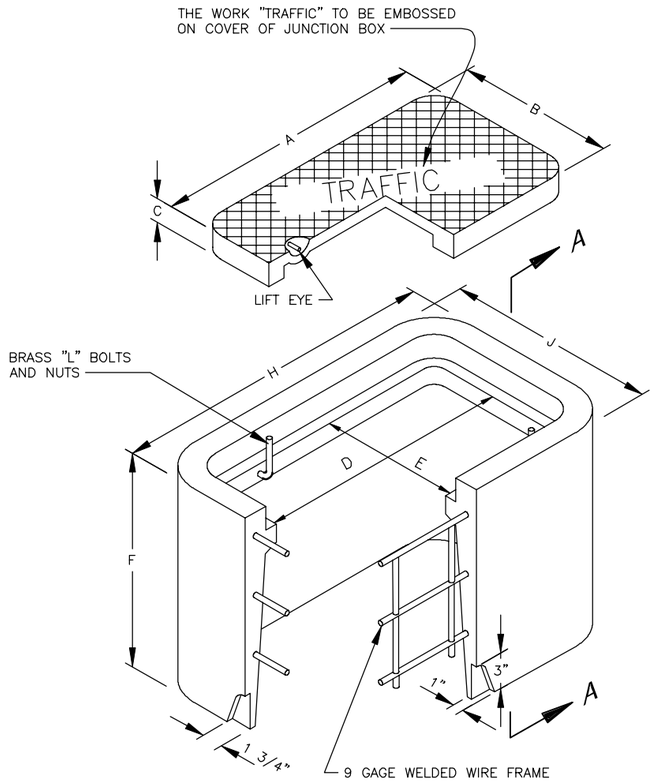
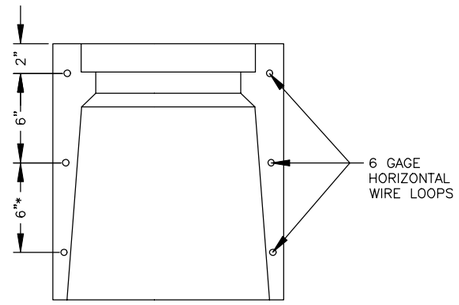
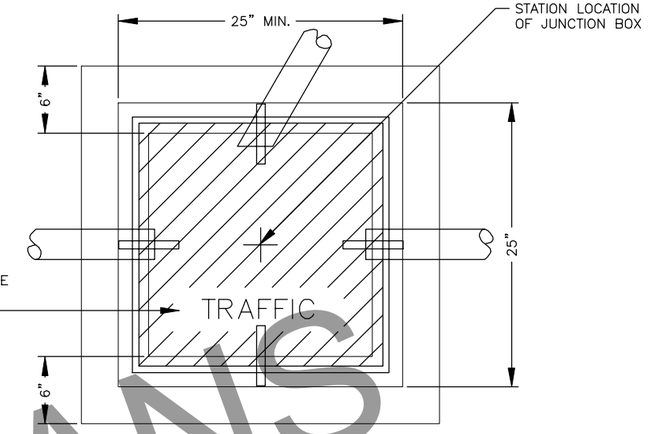




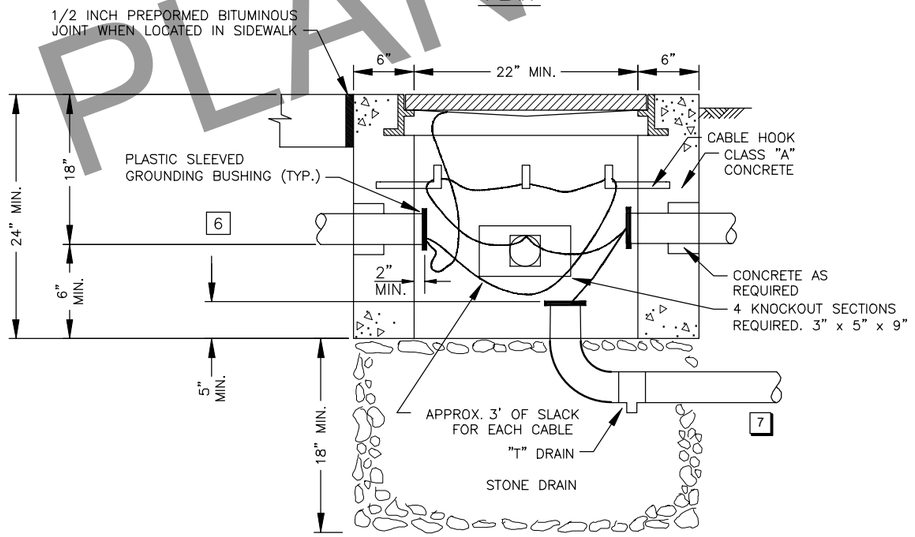
ALTERNATE REINFORCING

TYPE 1A

	DIMENSIONS (IN.)
	TYPE I–A
A	22 3/4
B	13 1/4
C	2
D	21 1/4
E	11 3/4
F	18
G	2
H	27 1/4
I	17 3/4
J	14 1/2

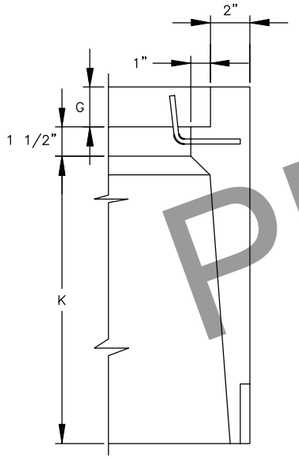


PLAN

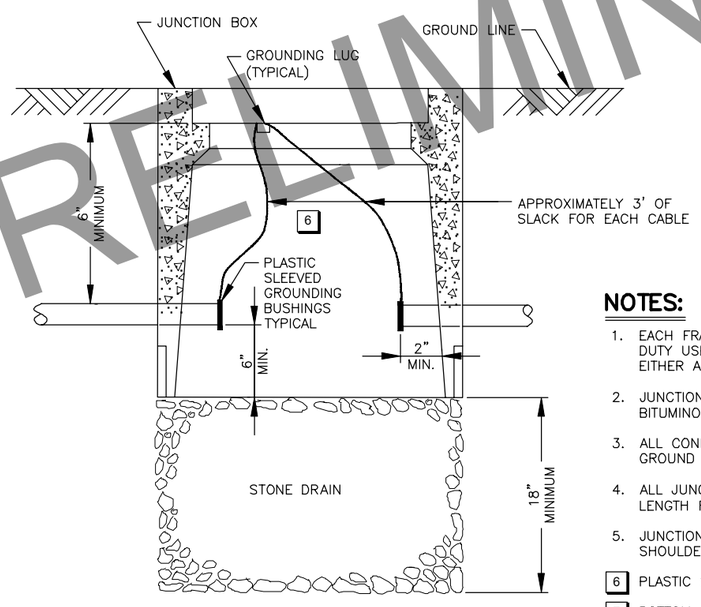


ELEVATION

2 — TYPE II JUNCTION BOX DETAIL



SECTION A–A



1 — TYPE I–A JUNCTION BOX DETAIL

NOTES:

1. EACH FRAME AND COVER FOR TYPE 1A JUNCTION BOXES SHALL BE OF CAST IRON FOR LIGHT DUTY USE WITH A MINIMUM WEIGHT OF 43.3 POUNDS. COVERS 1A JUNCTION BOXES SHALL BE EITHER ALUMINUM OR CAST IRON.
2. JUNCTION BOXES LOCATED IN A SIDEWALK SHALL BE INSTALLED WITH A 1/2 INCH PREFORMED BITUMINOUS JOINT MATERIAL AROUND ITS PERIMETER.
3. ALL CONDUITS SHALL BE BONDED TO FORM A CONTINUOUS ELECTRICALLY SECURE SYSTEM WITH A GROUND AT THE LOAD CENTER JUNCTION BOX.
4. ALL JUNCION BOX COVERS SHALL BE BONDED TO GROUND WITH #8 AWG COPPER BRAID. BRAID LENGTH FOR TYPE 1A SHALL BE 3 FEET. BRAID LENGTH FOR TYPE ii SHALL BE 6 FEET.
5. JUNCTION BOXES SHALL BE SET FLUSH WITH THE SURROUNDING SURFACE EXCEPT IN AN UNPAVED SHOULDER, WHEN THEY SHALL BE LOCATED 2 INCHES BELOW GRADE.

[6] PLASTIC SLEEVED GROUNDING BUSHINGS WILL BE IN PLACE BEFORE ANY WIRES ARE PULLED.

[7] BOTTOM ENTRY BY EXCEPTION ONLY. ONLY CONDUITS WITH MAIN RUN BURIED AT A DEPTH OF 30 INCHES OR GREATER ARE ALLOWED BOTTOM ENTRY. CONDUITS RUNS AT LESS THAN 30" DEEP ARE TO BE ADJUSTED TO ENTER SIDE OF JUNCTION BOX AS SHOWN ABOVE.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ATR JUNCTION BOX DETAILS

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

JACOBS ENGINEERING GROUP, INC.
949 E. 36TH AVENUE, SUITE 500
ANCHORAGE, AK 99508
(907) 762-1500
AECC628

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NO.	DATE	REVISION

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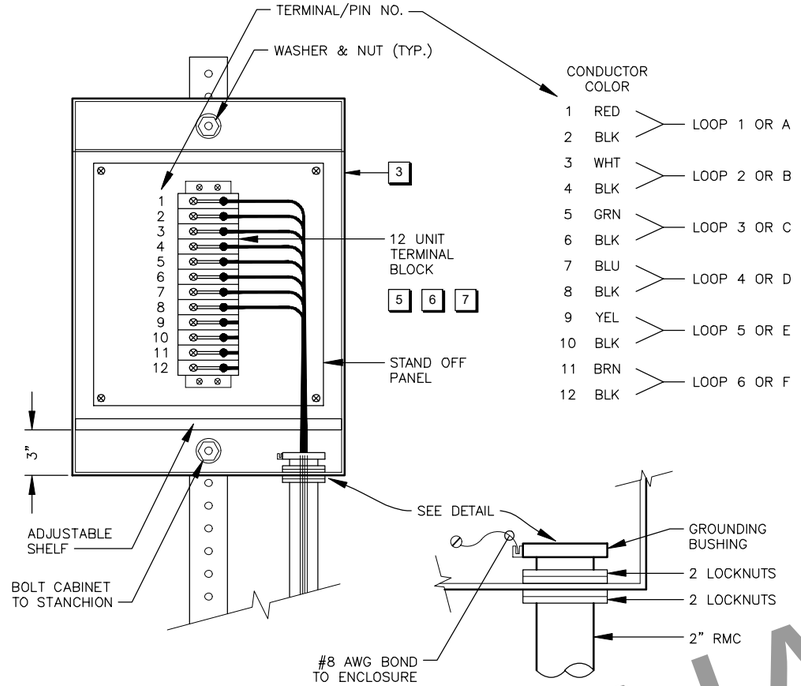
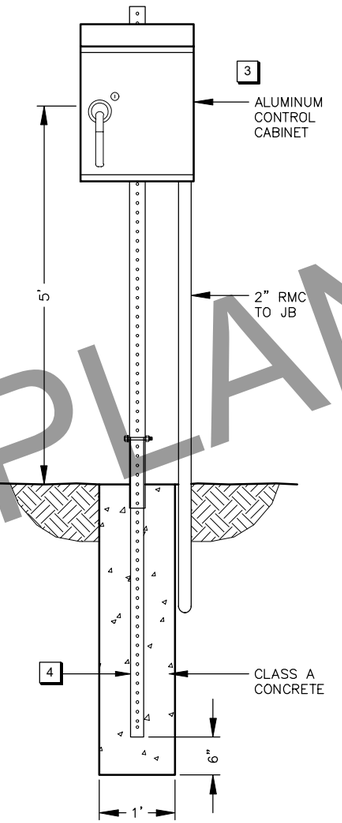
ALASKA	0537008/CFHWY00012	2022	K18	K20

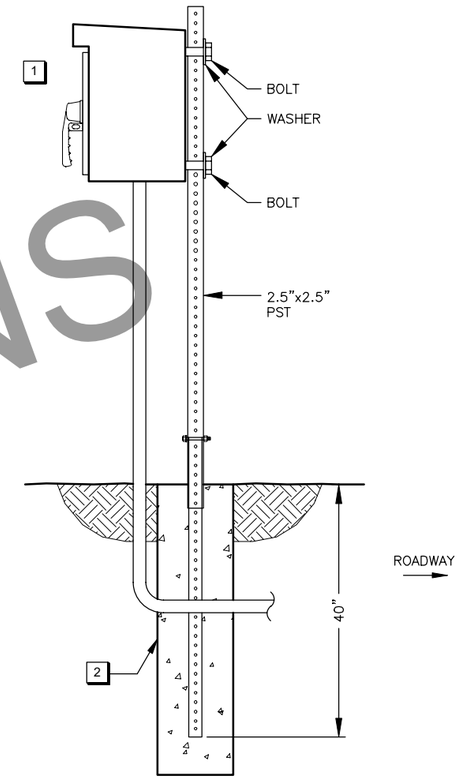


1 — CABINET TYPE CBA1

FRONT VIEW, DOOR OPEN



FRONT ELEVATION



SIDE ELEVATION

2 — CABINET TYPE CBA1 DETAIL

NOTES:

1. CONTROLLER CABINET DOOR TO OPEN AWAY FROM THE ROADWAY.
2. INSTALL FOUNDATION IN SELECT MATERIAL, TYPE A. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL WITH GRAVEL 2 FEET BELOW AND SURROUNDING THE FOUNDATION.
3. CABINET TO BE EQUAL TO OR BETTER THAN HENNESEY SINGLE DOOR ALUMINUM ENCLOSURE; CATALOG NUMBER SM201715 (20 3/8" x 17 5/16" x 16 1/4") WITH NEMA 3R RATING, CORBIN LOCK, EQUIPMENT MOUNTING PANEL AND ADJUSTING SHELF.
4. SLEEVE TYPE CONCRETE FOUNDATION. SEE STANDARD PLAN S-30.05, PERFORATED STEEL TUBE (PST) POST.
5. TERMINATE ALL CONDUCTORS TO TERMINAL BLOCK. TERMINATE ALL CONDUCTORS WITH CRIMPED AND SOLDERED SPADE TYPE TERMINALS.
6. TY-RAPS TO PROVIDE STRAIN RELIEF FOR INCOMING CONDUCTORS.
7. LABEL SENSOR LEADS:
   USE THE INDUCTIVE LOOP DESIGNATION FOR IDENTIFICATION, SUCH AS "VISLA"/

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ANCHORAGE, AK 99508
(907) 762-1500
AECC628

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ATR CBA1
CABINET DETAILS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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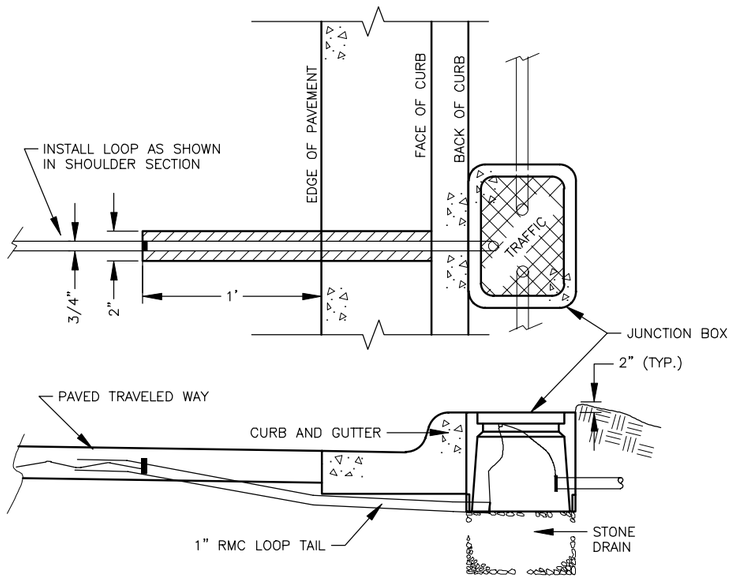
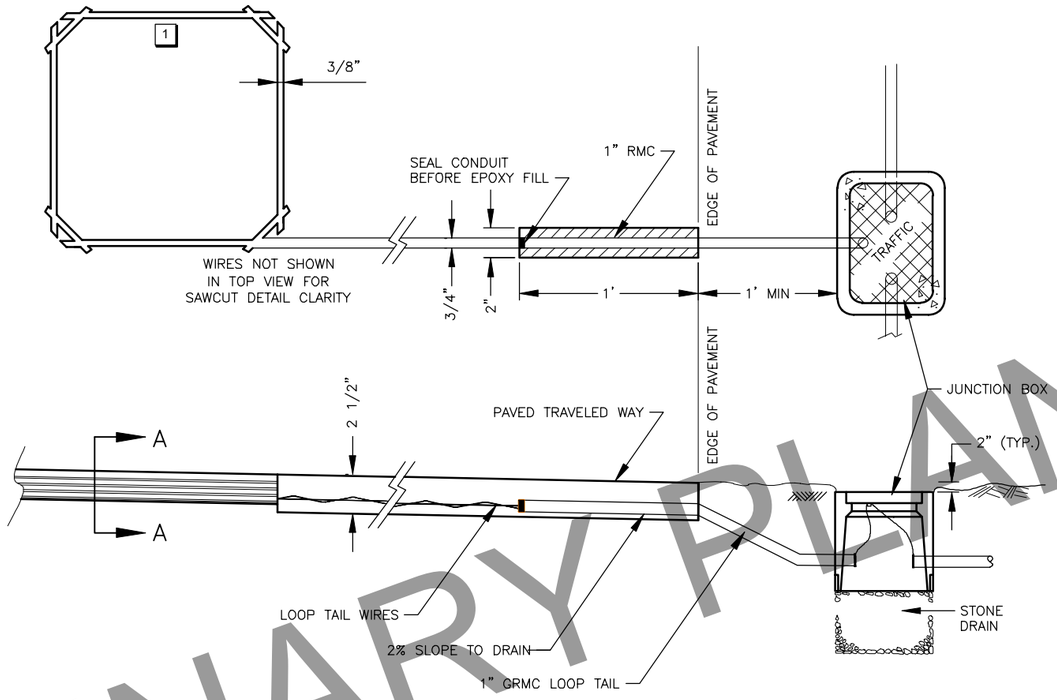
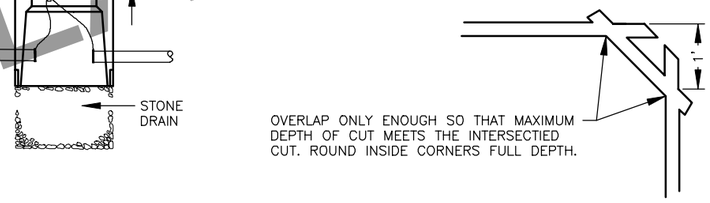


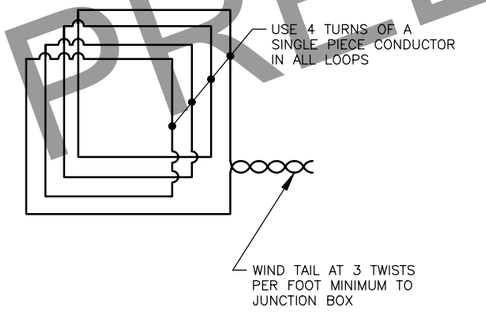
1 CURB SECTION



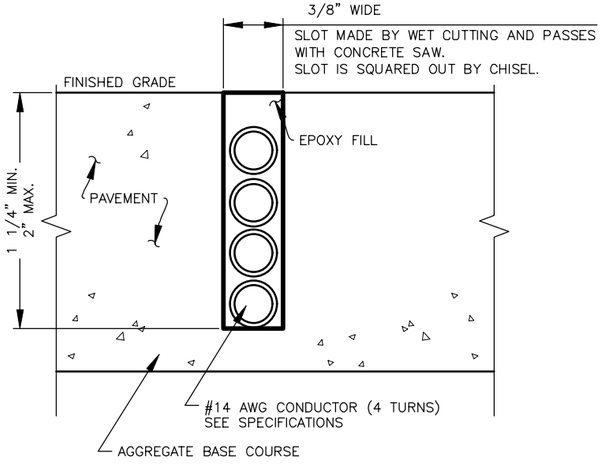
2 SHOULDER SECTION



4 LOOP CORNER DETAIL



5 LOOP WIRING DETAIL



3 SECTION A–A

NOTES:

1. LOOP CONFIGURATION SHALL BE SAWCUT INTO PCC PAVEMENT.
2. THE MINIMUM CLEARANCE BETWEEN A DETECTION LOOP AND THE TAIL OF ANOTHER DETECTION LOOP SHALL NOT BE LESS THAN 1 FOOT. LOOP TAILS SHALL NOT CROSS EACH OTHER, BUT HAVE NO MINIMUM CLEARANCE BETWEEN TAILS.
3. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO SEALING THE LOOPS.
4. SLOPE CONDUIT 2% TO DRAIN INTO J–BOX IF JUNCTION IS LOWER THAN SENSOR. OTHERWISE PROVIDE DRAIN HOLES PER SPECIFICATION 660–3.03.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

ATR CUT–IN PRESENCE LOOP DETAILS

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NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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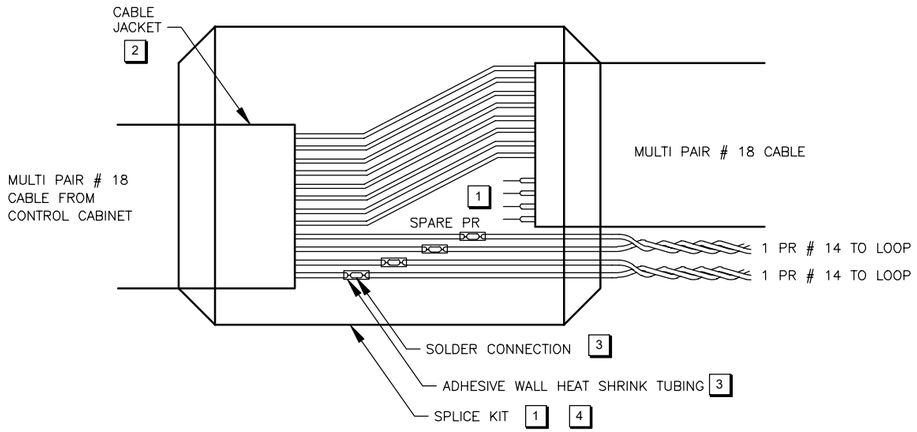

1 — TYPICAL SPLICE DETAIL

NOTES:

1. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
2. SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
3. STAGGER SPLICE POINTS. USE NON INSULATED COMPRESSION BUTT CONNECTORS. SOLDER CONNECTIONS. ENCLOSE EXPOSED CONDUCTORS IN ADHESIVES WALL HEAT SHRINK TUBING.
4. USE A NONREENTERABLE, WET LOCATION, COMMERCIAL SPLICE KIT AS APPROVED BY THE ENGINEER.
5. SEAL END OF CONDUIT WITH LOOP SEALANT AS APPROVED BY THE ENGINEER.
6. SLOT FOR IN-PAVEMENT SENSORS PARALLEL TO TRAVELED ROADWAY.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD
RECONSTRUCTION

ATR LEAD-IN SPLICE

PB | DRAFTED | DW | CHECKED | SK | DESIGNED | K20 | LAYOUT | 4/8/2022 3:08 PM | DATE/TIME
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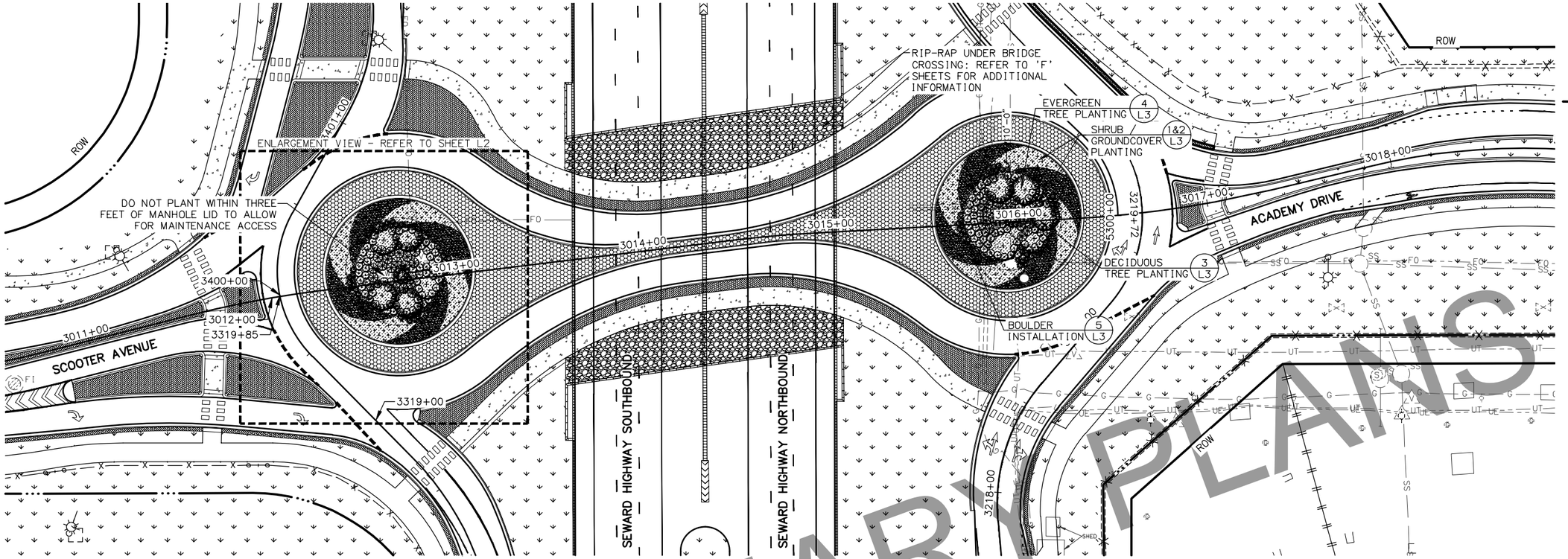


PLANTING SCHEDULE (SEE NOTE 1.)

QTY	SYMBOL	LABEL	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
TREES							
6		PGD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	6' HT./B&B	AS SHOWN	
4		PTE	POPULUS TREMULA 'ERECTA'	SWEDISH COLUMNAR ASPEN	2" CAL./B&B	AS SHOWN	
SHRUBS							NOTES
140		RR	ROSA RUGOSA 'THERESE BUGNET'	THERESE BUGNET ROSE	18" HT.	AS SHOWN	
40		PMP	PINUS MUGO 'PUMILIO'	DWARF PUMILIO MUGO PINE	18" HT.	AS SHOWN	UNSHEARED
2,884 SF 830 EA		CV	JUNIPERUS HORIZONTALLIS 'BAR HARBOR'	BAR HARBOR JUNIPER	#1 CONT.	2'-0" O.C.	
2,964 SF 860 EA		AR	ARCTOSTAPHYLOS UVA-URSI	KINNIKKINNICK	#1 CONT.	2'-0" O.C.	
PERENNIALS							NOTES
90		HS	HEMEROCALLIS 'KING ALFRED'	DAYLILIES	#1 CONT.	18" O.C.	

NOTES:

1. PLANTING SCHEDULE PROVIDED FOR DESIGN CLARITY. QUANTITIES SHOWN WITHIN THIS SCHEDULE ARE FOR THE ENTIRE PROJECT PHASE LIMITS. REFER TO 'F' SHEETS FOR ADDITIONAL INFORMATION AND LIMITS OF PROPOSED DESIGN ELEMENTS.
2. WESTERN ROUNDABOUT ENLARGEMENT VIEW ON SHEET L2 IS INTENDED TO INDICATE A TYPICAL PLANTING LAYOUT OF A ROUNDABOUT.
3. PROPOSED TREES HAVE BEEN LOCATED IN ROUNDABOUT PLANTERS TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES. PLACE TREES WHERE SHOWN.
4. INSTALL A MINIMUM 4" LAYER OF AMENDED TOPSOIL IN ALL GRASS SEED MIX AREAS.
5. INSTALL A MINIMUM 18" LAYER OF BACKFILL MIX IN TREE / SHRUB ROUNDABOUT PLANTER ISLANDS.

SEED MIXES

AREA	SYMBOL	NAME	NOTES
38.0 AC 2,500 LBS		GRASS SEED MIX OVER 4" LAYER OF TOPSOIL	REFER TO PROJECT SPECIFICATION SECTION 618 FOR SEED MIX SPECIES, SOIL STABILIZER AND FERTILIZER APPLICATION RATES. QUANTITIES SHOWN FOR ENTIRE PROJECT LIMITS. REFER TO 'F' SHEETS FOR LIMITS OF GRADING.

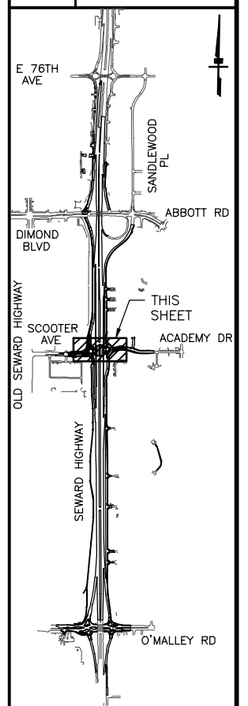
LANDSCAPE MATERIALS

				NOTES
710 SY		ROCK MULCH TYPE A PAY ITEM 622.2039.001A	2"-6" ROUND RIVER GRAVEL FROM A REGIONAL SUPPLIER	6" DEPTH AS SHOWN
330 SY		ROCK MULCH TYPE B PAY ITEM 622.2039.001B	2" ROUND RIVER GRAVEL FROM A REGIONAL SUPPLIER	6" DEPTH AS SHOWN
		LANDSCAPE BOULDERS	FROM A REGIONAL SUPPLIER	AS SHOWN
14		LARGE	CLASS IV RIPRAP PAY ITEM 622.2025.	4' SHORTEST DIAGONAL
10		MEDIUM	CLASS III RIPRAP PAY ITEM 622.2025.	3' SHORTEST DIAGONAL
6		SMALL	CLASS II RIPRAP PAY ITEM 622.2025.	2' SHORTEST DIAGONAL
1,350 SY		CONCRETE - TYPE V - COLORED AND PATTERN IMPRINTED TRUCK APRON PAVING: 6" THICK - PAY ITEM 608.2013.E006		QUANTITY SHOWN FOR ENTIRE PROJECT LIMITS. REFER TO 'F' SHEETS FOR LIMITS OF PAVING AND DESIGN DETAILS.
8,200 SY		CONCRETE - TYPE V - COLORED AND PATTERN IMPRINTED RAISED MEDIAN PAVING: 4" THICK - PAY ITEM 608.2013.E004		

SHEET NO.	TOTAL SHEETS
L1	L3
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
#AECL848 - AK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LANDSCAPE PLAN

DATE/TIME 4/8/2022 5:22 PM | LAYOUT L1 | DESIGNED PG | CHECKED KK | DRAFTED PG
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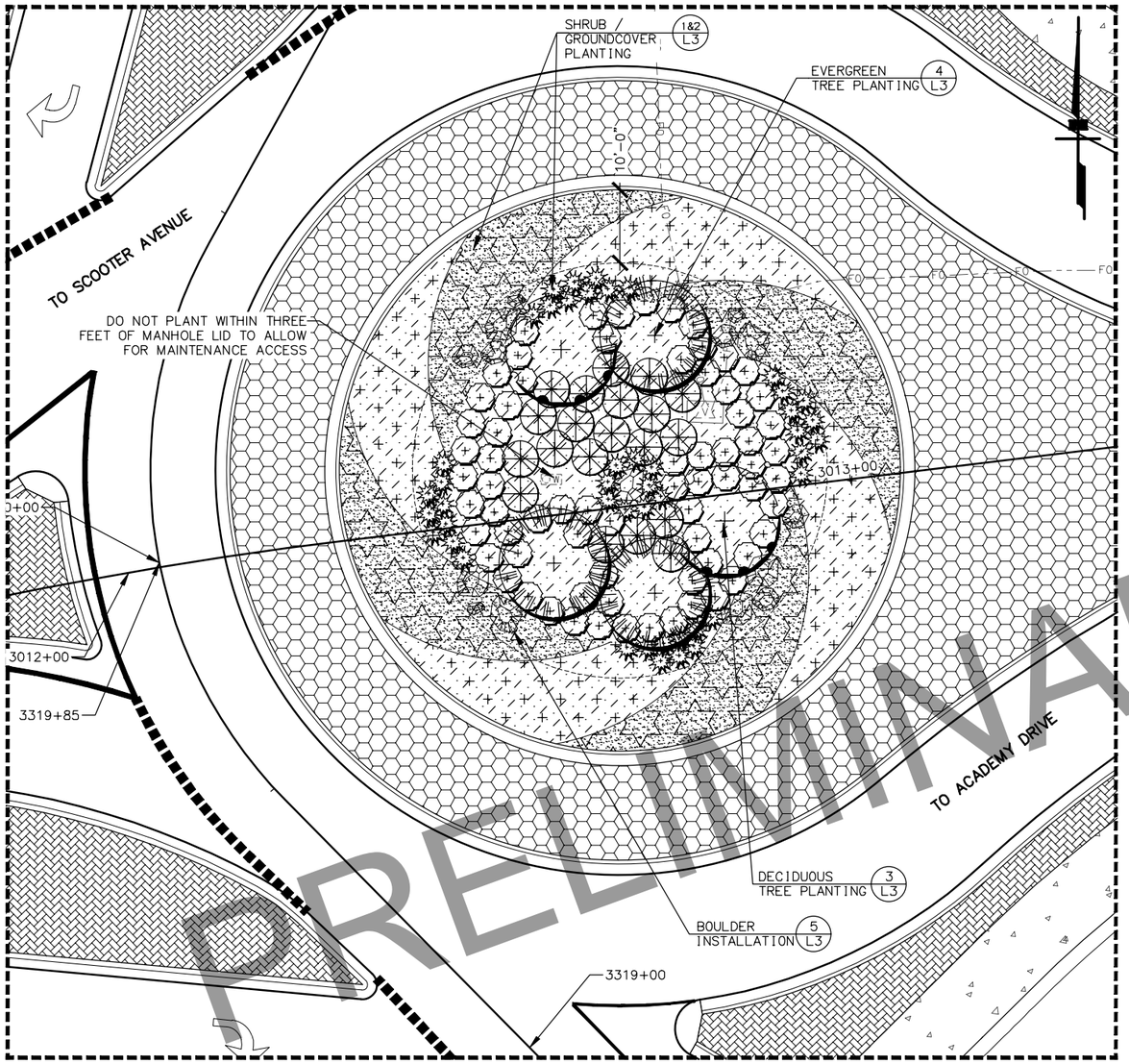
WESTERN ROUNDABOUT ENLARGEMENT VIEW



SCALE: 1" = 10'-0"

PLANTING SCHEDULE (SEE NOTE 3.)

QTY	SYMBOL	LABEL	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	NOTES
TREES							
3		PGD	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	6' HT./B&B	AS SHOWN	
2		PTE	POPULUS TREMULA 'ERECTA'	SWEDISH COLUMNAR ASPEN	2" CAL./B&B	AS SHOWN	
SHRUBS							NOTES
70		RR	ROSA RUGOSA 'THERESE BUGNET'	THERESE BUGNET ROSE	18" HT.	AS SHOWN	
20		PMP	PINUS MUGO 'PUMILIO'	DWARF PUMILIO MUGO PINE	18" HT.	AS SHOWN	UNSHEARED
1,450 SF 415 EA		CV	JUNIPERUS HORIZONTALLIS 'BAR HARBOR'	BAR HARBOR JUNIPER	#1 CONT.	2'-0" O.C.	
3,000 SF 427 EA		AR	ARCTOSTAPHYLOS UVA-URSI	KINNIKKINNICK	#1 CONT.	2'-0" O.C.	
PERENNIALS							NOTES
45		HS	HEMEROCALLIS 'KING ALFRED'	DAYLILIES	#1 CONT.	18" O.C.	

LANDSCAPE MATERIALS					NOTES
355 SY	ROCK MULCH TYPE A PAY ITEM 622.2022.001A	2"-6" ROUND RIVER GRAVEL FROM A REGIONAL SUPPLIER	6" LAYER	AS SHOWN	
165 SY	ROCK MULCH TYPE B PAY ITEM 622.2022.001B	2" ROUND RIVER GRAVEL FROM A REGIONAL SUPPLIER	6" LAYER	AS SHOWN	
	LANDSCAPE BOULDERS	FROM A REGIONAL SUPPLIER		AS SHOWN	
7	LARGE	CLASS IV RIPRAP PAY ITEM 622.2025.		4' SHORTEST DIAGONAL	
5	MEDIUM	CLASS III RIPRAP PAY ITEM 622.2025.		3' SHORTEST DIAGONAL	
3	SMALL	CLASS II RIPRAP PAY ITEM 622.2025.		2' SHORTEST DIAGONAL	
4,700 SF	CONCRETE - TYPE V - COLORED AND PATTERN IMPRINTED TRUCK APRON PAVING: 6" THICK - PAY ITEM 608.2013.E006				
1,700 SF	CONCRETE - TYPE V - COLORED AND PATTERN IMPRINTED RAISED MEDIAN PAVING: 4" THICK - PAY ITEM 608.2013.E004				

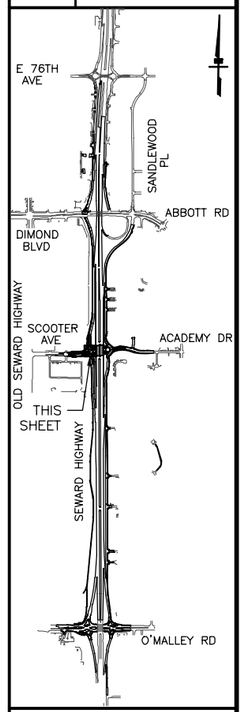
NOTES:

1. WESTERN ROUNDABOUT ENLARGEMENT VIEW ON SHEET L2 IS INTENDED TO INDICATE A TYPICAL PLANTING LAYOUT OF A ROUNDABOUT.
2. PROPOSED TREES HAVE BEEN LOCATED IN ROUNDABOUT PLANTERS TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES. PLACE TREES WHERE SHOWN.
3. QUANTITIES SHOWN IN LEGEND ARE FOR THIS SHEET ONLY. REFER TO L1 FOR PROJECT TOTALS.

SHEET NO.	TOTAL SHEETS
L2	L3
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION
0537008/ CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
#AECL848 - AK

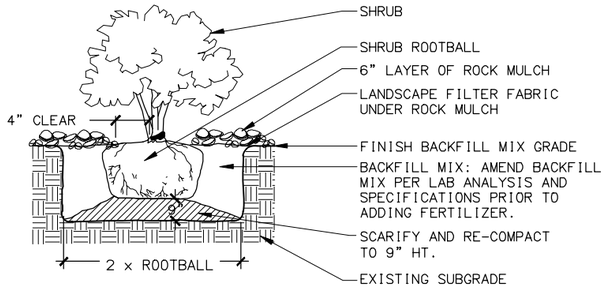
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LANDSCAPE ENLARGEMENT

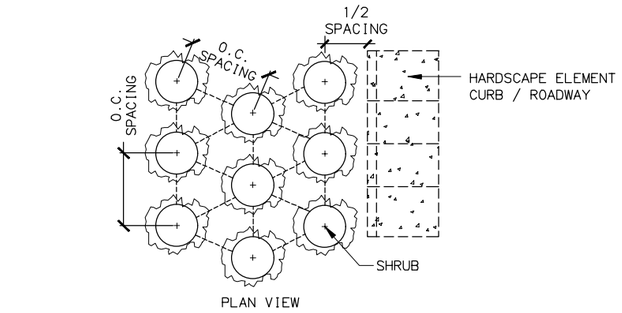
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	L3	L3



REMOVE CONTAINER FROM PLANT AND SCORE ROOTBALLS TO LOOSEN ANY ROOT BOUND MATERIAL PRIOR TO INSTALLATION.

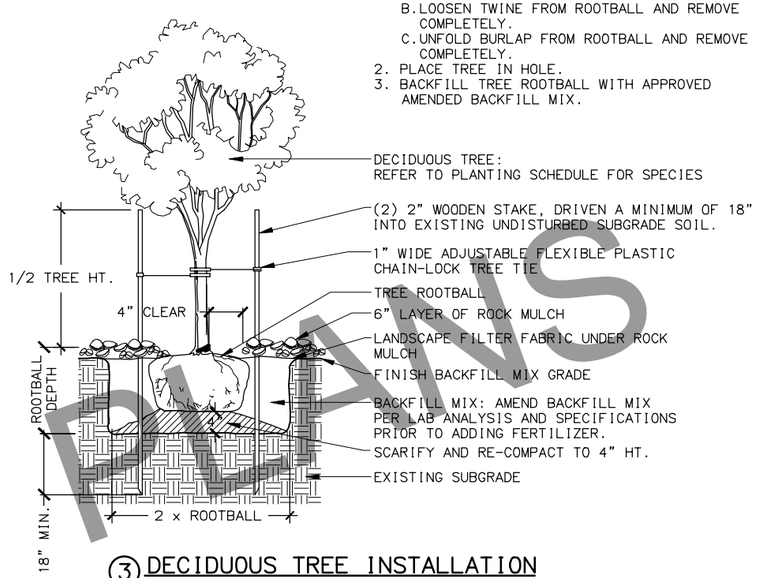
① SHRUB INSTALLATION
N.T.S.



1. ALL PLANTS SHALL BE INSTALLED IN AN EQUAL TRIANGULAR SPACING.
2. LOCATE PLANT ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB OR OTHER HARDSCAPE SURFACE, UNLESS OTHERWISE NOTED.
3. REFER TO F SHEETS FOR FINISH GRADES WITHIN PLANTER MEDIANS.

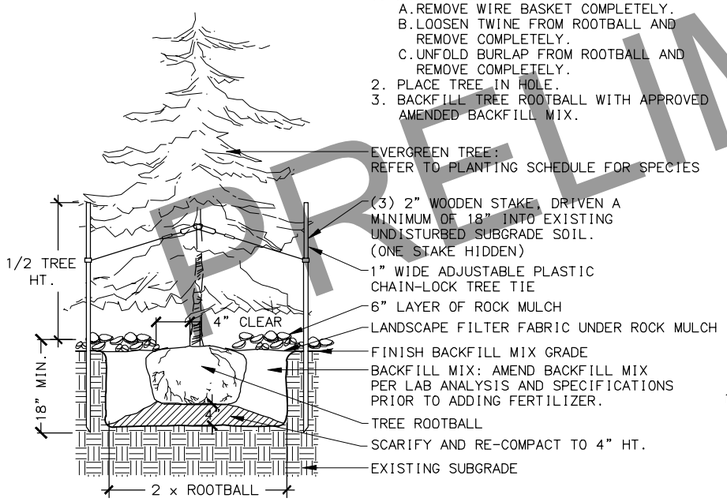
② SHRUB SPACING
N.T.S.

TREE INSTALLATION STEPS:
1. WHILE TREE IS OUT OF THE HOLE:
   A. REMOVE WIRE BASKET COMPLETELY.
   B. LOOSEN TWINE FROM ROOTBALL AND REMOVE COMPLETELY.
   C. UNFOLD BURLAP FROM ROOTBALL AND REMOVE COMPLETELY.
2. PLACE TREE IN HOLE.
3. BACKFILL TREE ROOTBALL WITH APPROVED AMENDED BACKFILL MIX.

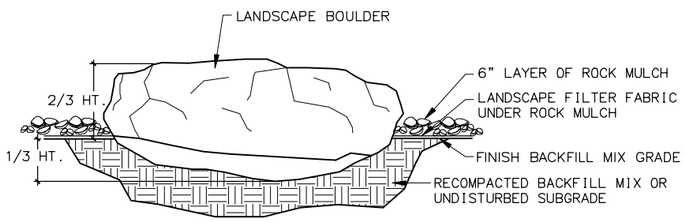


③ DECIDUOUS TREE INSTALLATION
N.T.S.

TREE INSTALLATION STEPS:
1. WHILE TREE IS OUT OF THE HOLE:
   A. REMOVE WIRE BASKET COMPLETELY.
   B. LOOSEN TWINE FROM ROOTBALL AND REMOVE COMPLETELY.
   C. UNFOLD BURLAP FROM ROOTBALL AND REMOVE COMPLETELY.
2. PLACE TREE IN HOLE.
3. BACKFILL TREE ROOTBALL WITH APPROVED AMENDED BACKFILL MIX.



④ EVERGREEN TREE PLANTING
N.T.S.



⑤ LANDSCAPE BOULDER
N.T.S.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

LANDSCAPE DETAILS

DATE/TIME	4/8/2022 4:56 PM
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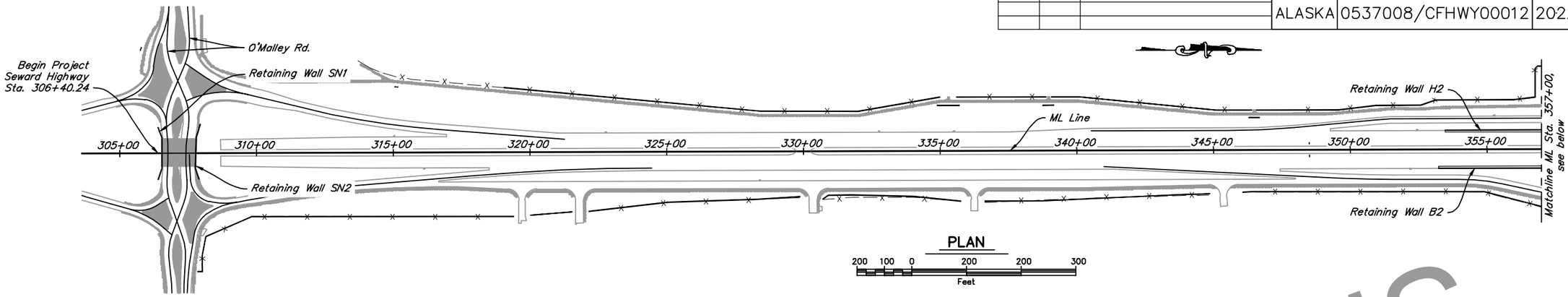
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M1	M17



PLAN

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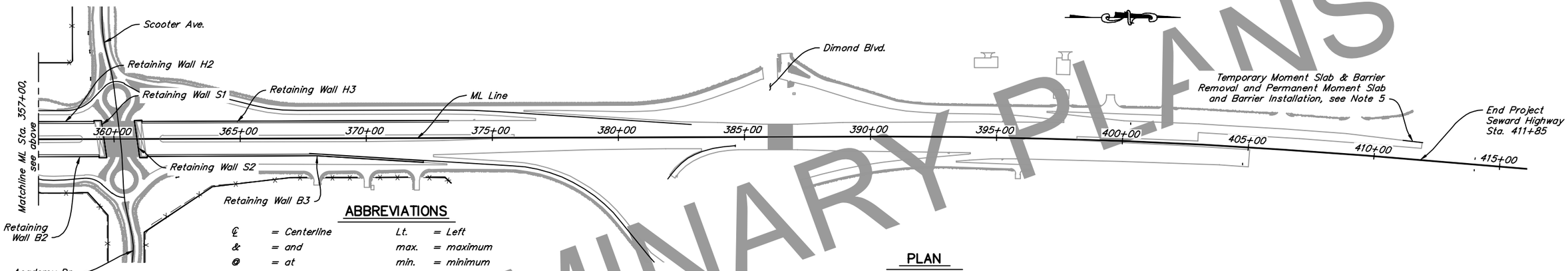
Feet



PLAN

200 100 0 200 400 600
Feet

ABBREVIATIONS

℄	= Centerline	Lt.	= Left
&	= and	max.	= maximum
@	= at	min.	= minimum
ø	= diameter	MSE	= Mechanically Stabilized Earth
Abut.	= Abutment	No.	= number
Approx.	= Approximate	NPS	= nominal pipe size
clr.	= Clear, Clearance	o.c.	= on center
Comm.	= Communications	O–O	= out to out
conc.	= concrete	pcf	= pounds per cubic foot
const.	= construction	PE	= polyethylene
ctrs.	= centers	PI	= Point of Intersection
dia.	= diameter	PL	= Plate
Dwg.	= drawing	psi	= pounds per square inch
ea.	= each	psf	= pounds per square foot
e.f.	= each face	pt.	= point
Elev.	= Elevation	Rt.	= Right
eq.	= equal	ROW	= right of way
exist.	= existing	spa.	= space, spaces
ft.	= feet	Sta.	= Station
FG	= Finish grade	std.	= standard
galv.	= galvanized	SF	= square foot
Hwy.	= Highway	temp.	= temperature
invt.	= invert elevation	TCE	= Temporary Construction Easement
j–box	= junction box	TCP	= Temporary Construction Permits
jt.	= joint	TH#	= Test Hole Number
k	= thousand pounds	typ.	= typical
LF	= linear feet	VPI	= Vertical Point of Intersection
longit.	= longitudinal		

LEGEND

- Retaining Wall
- Noise Barrier, see Note 3
- TH# Bore Hole Location (with Hole #), see Note 4

Notes:

1. For Mechanically Stabilized Earth (MSE) Wall design requirements and Typical Sections, see Dwg. 10.
2. For Retaining Wall quantities, see Wall Layout sheets.
3. For Noise Barriers, see Noise Barrier sheets.
4. For Bore Hole locations, see Wall Layout sheets.
5. For Temporary Moment Slab Barrier Removal and replacement, see Dwg. 12.
6. For alignment names, see Sheet No. A2.
7. For additional legend and abbreviations, see A Sheets.

DRAWING INDEX

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL KEYPLAN

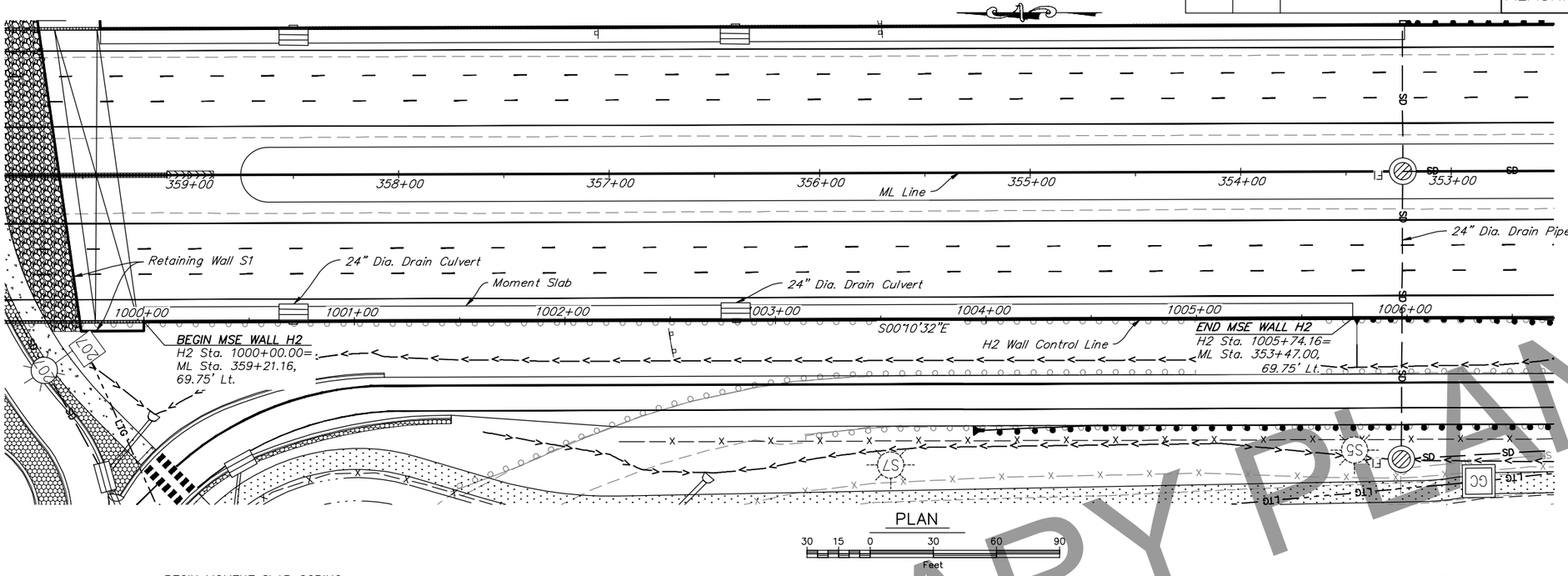
DWG. NO. 1

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC. ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012-WALL-KP.dwg Apr 11,2022 – 11:06am

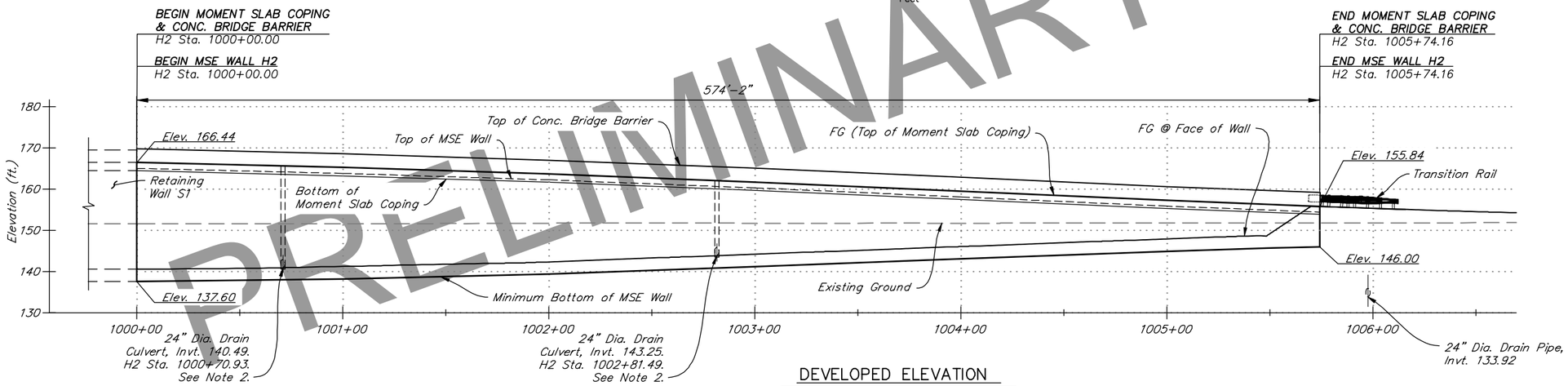
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M2	M17



PLAN

30 15 0 30 60 90
Feet



DEVELOPED ELEVATION

Horiz: 30 15 0 30 60 90 Feet

Vert: 15 0 15 30 45 Feet

RETAINING WALL H2 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0004.0000	Concrete Bridge Barrier	LF	LF	574
511.0001.0000	Mechanically Stabilized Earth Wall	SF	SF	10,888
511.0001.0002	Mechanically Stabilized Earth Wall, Moment Slab Coping	LF	LF	574
606.0016.0000	Transition Rail	EA	EA	1

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. For vertical profile information, see F Sheets.
2. Drain culvert pipe end shall be flush with face of MSE wall. MSE wall details at pipe penetrations by contractor.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

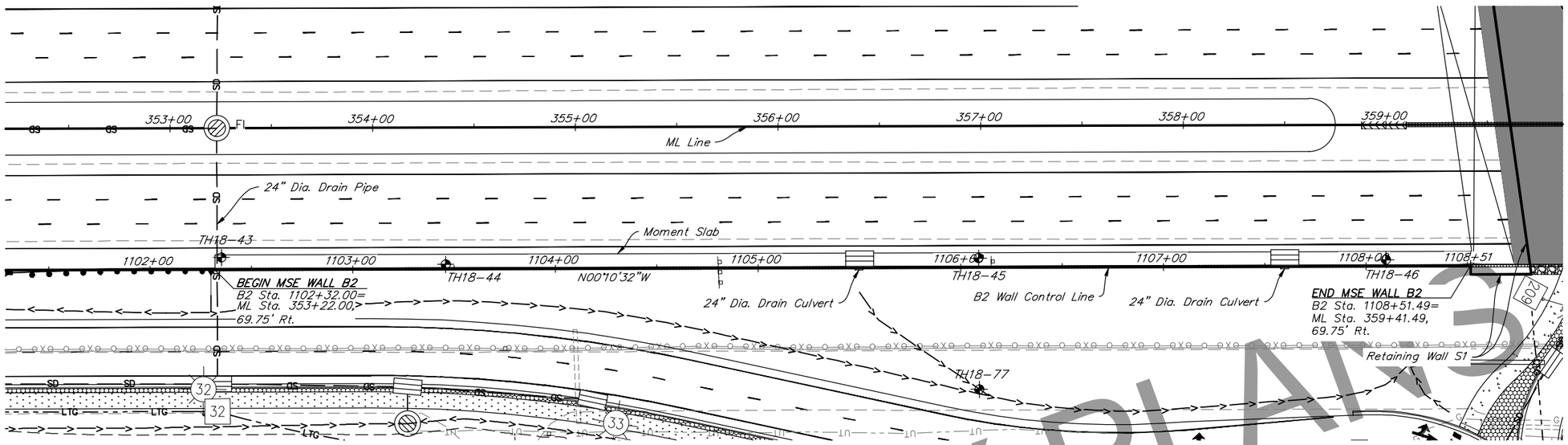
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL H2 LAYOUT

DWG. NO. 2

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-H2.dwg Apr 04,2022 – 1:57pm

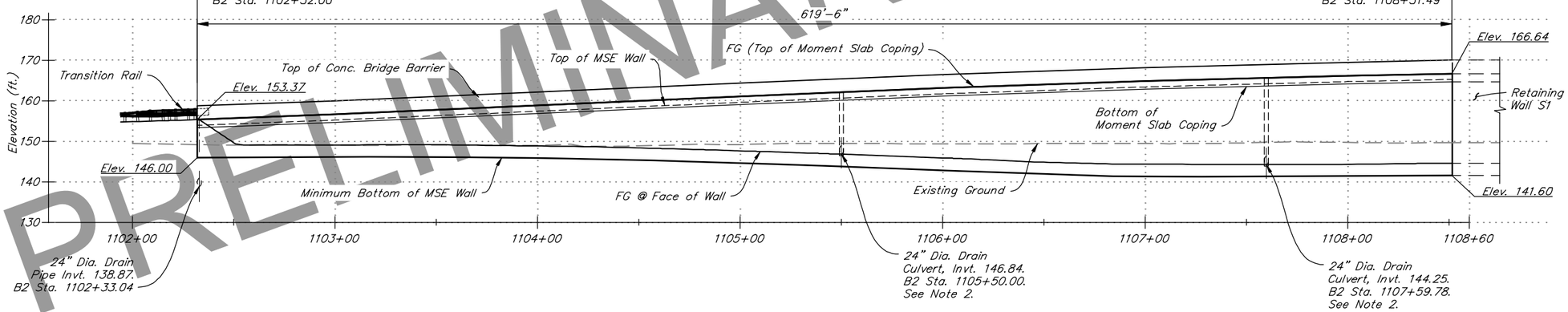
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M3	M17



PLAN

30 15 0 30 60 90
Feet



DEVELOPED ELEVATION

Horiz: 30 15 0 30 60 90 Feet

Vert: 15 0 15 30 45 Feet

RETAINING WALL B2 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0004.0000	Concrete Bridge Barrier	LF	LF	620
511.0001.0000	Mechanically Stabilized Earth Wall	SF	SF	10,143
511.0001.0002	Mechanically Stabilized Earth Wall, Moment Slab Coping	LF	LF	620
606.0016.0000	Transition Rail	EA	EA	1

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. For vertical profile information, see F Sheets.
2. Drain culvert pipe end shall be flush with face of MSE wall. MSE wall details at pipe penetrations by contractor.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

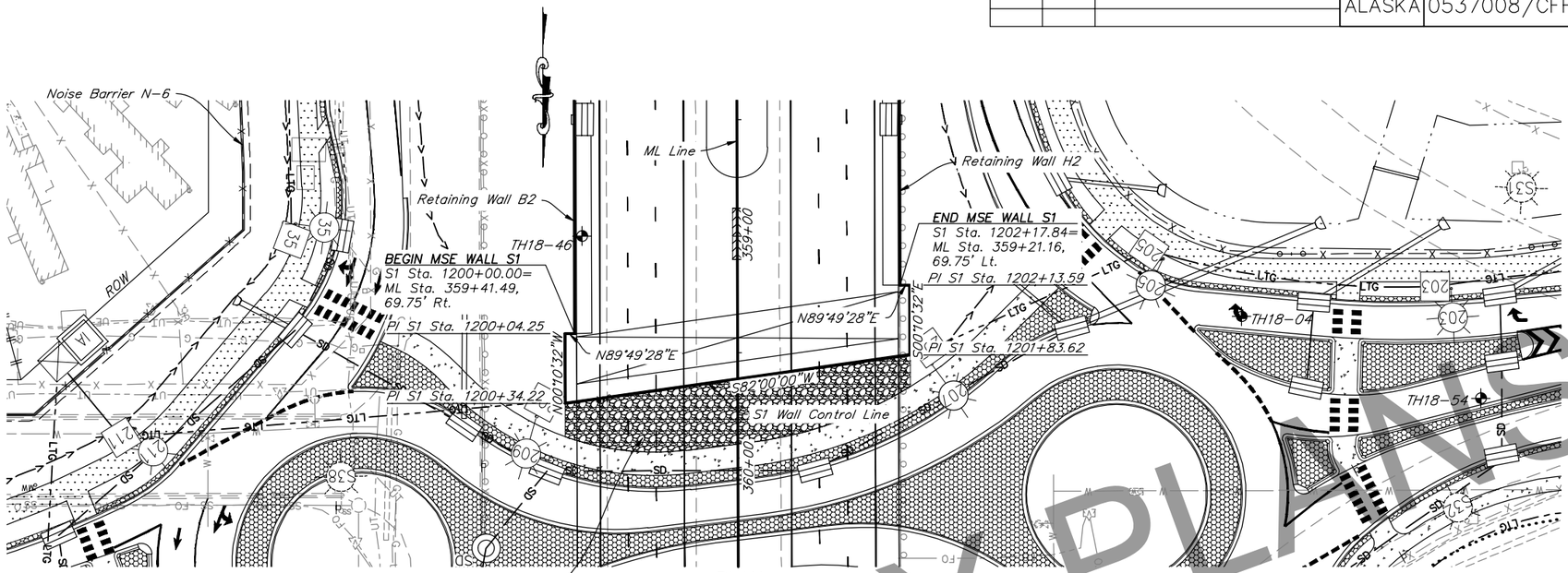
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL B2 LAYOUT

DWG. NO. 3

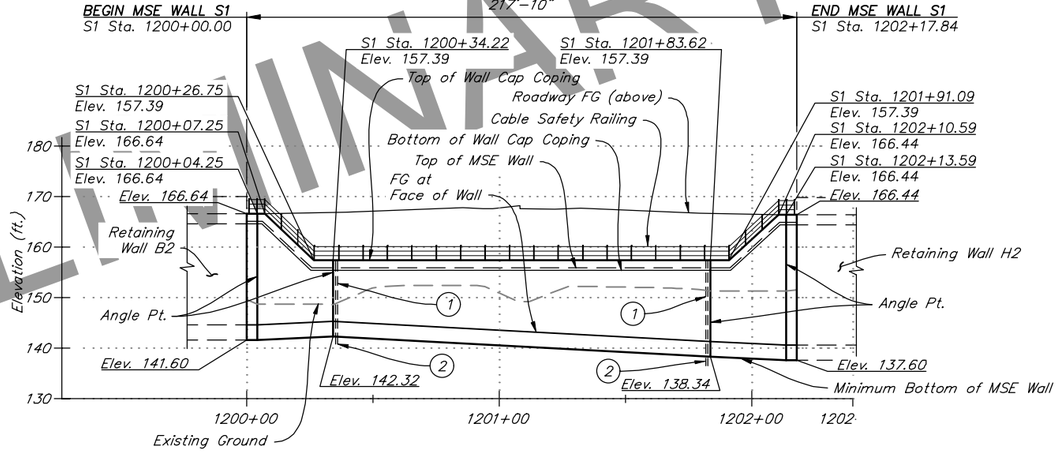
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-B2.dwg Apr 04,2022 - 1:58pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M4	M17



PLAN

30 15 0 30 60 90
Feet



DEVELOPED ELEVATION

Horiz: 30 15 0 30 60 90
Feet

Vert: 15 0 15 30 45
Feet

RETAINING WALL S1 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0006.0000	Cable Safety Railing	LF	LF	222
511.0001.0000	Mechanically Stabilized Earth Wall	SF	SF	3731
511.0001.0002	Mechanically Stabilized Earth Wall, Wall Cap Coping	LF	LF	222

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
(1) 10" HDPE drain pipe with grate at top. See Dwg. 16.
(2) Provide elbow and extend pipe to connect to nearest inlet.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

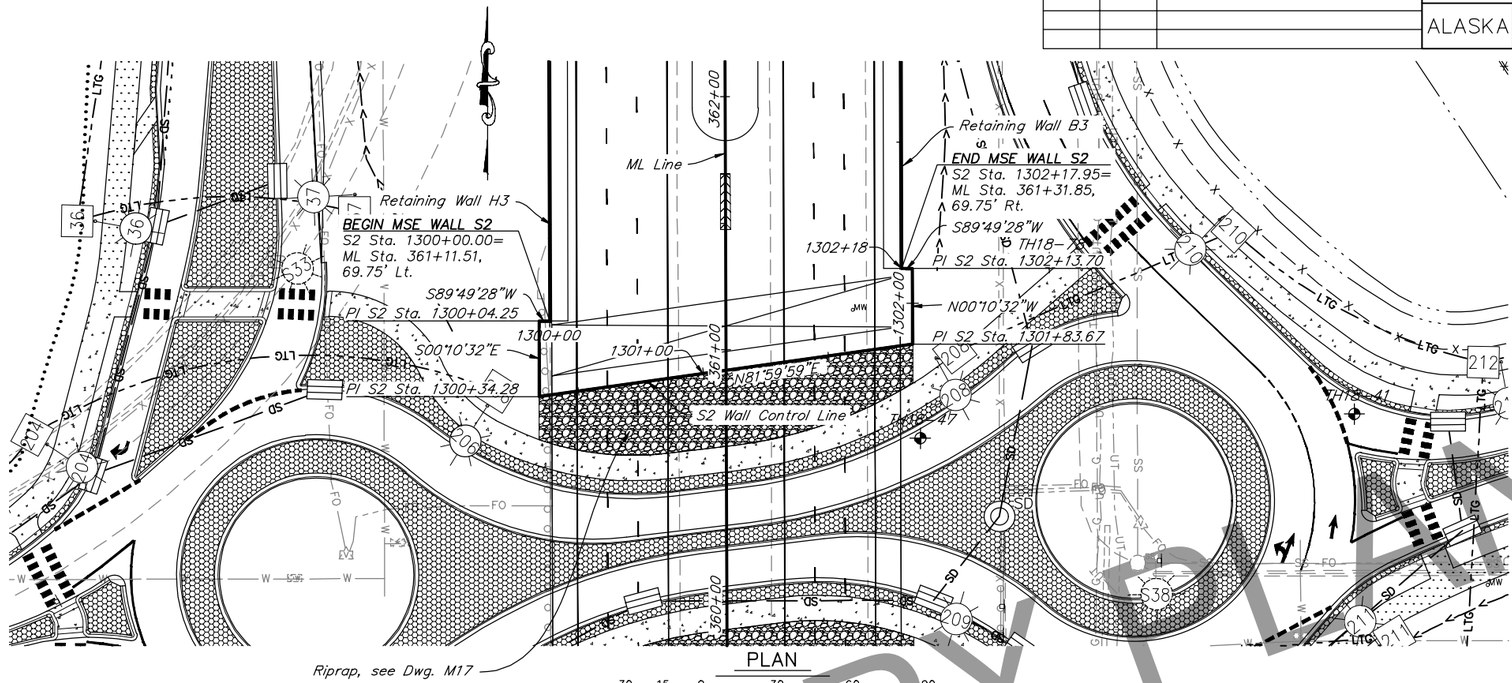
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL S1 LAYOUT

DWG. NO. 4

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-S1.dwg Apr 04,2022 – 1:59pm

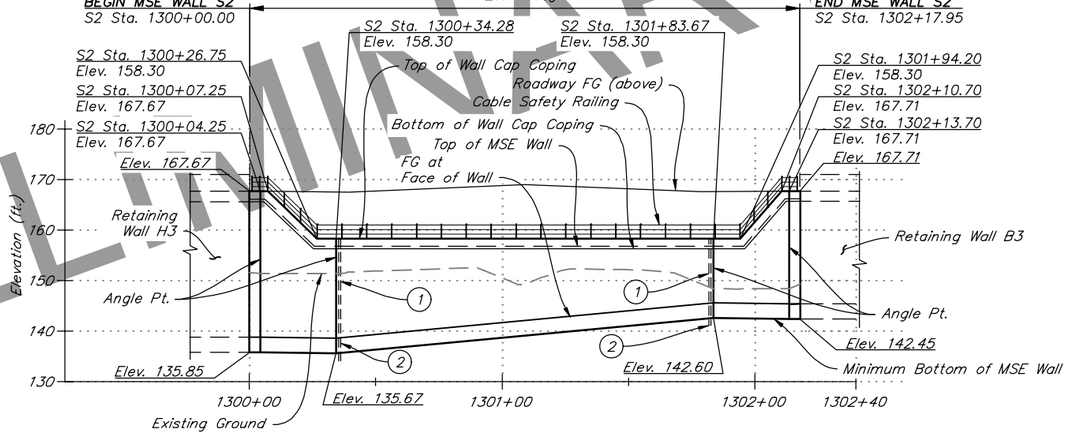
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M5	M17



PLAN

30 15 0 30 60 90
Feet



RETAINING WALL S2 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0006.0000	Cable Safety Railing	LF	LF	223
511.0001.0000	Mechanically Stabilized Earth Wall	SF	SF	4146
511.0001.0002	Mechanically Stabilized Earth Wall, Wall Cap Coping	LF	LF	223

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

DEVELOPED ELEVATION

Horiz: 30 15 0 30 60 90 Feet

Vert: 15 0 15 30 45 Feet

Notes:
1. 10" HDPE drain pipe with grate at top. See Dwg. 16.
2. Provide elbow and extend pipe to connect to nearest inlet.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

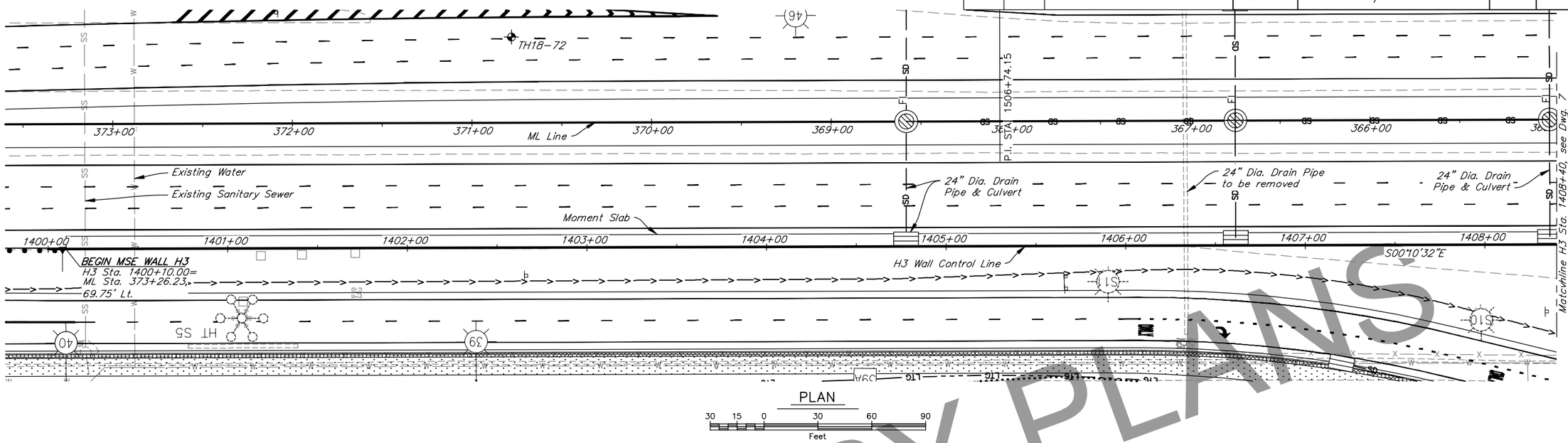
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL S2 LAYOUT

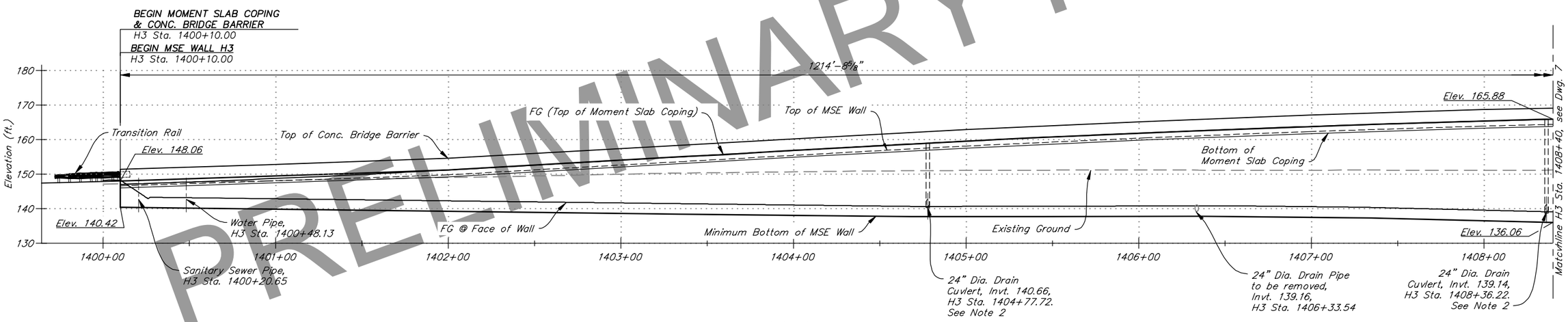
DWG. NO. 5

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-S2.dwg Apr 04,2022 - 2:00pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M6	M17





RETAINING WALL H3 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0004.0000	Concrete Bridge Barrier	LF	LF	1,215
511.0001.0000	Mechanically Stabilized Earth Wall	SF	SF	26,223
511.0001.0002	Mechanically Stabilized Earth Wall, Moment Slab Coping	LF	LF	1,215
606.0016.0000	Transition Rail	EA	EA	1

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. For vertical profile information, see F Sheets.
2. Drain culvert pipe end shall be flush with face of MSE wall. MSE wall details at pipe penetrations by contractor.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

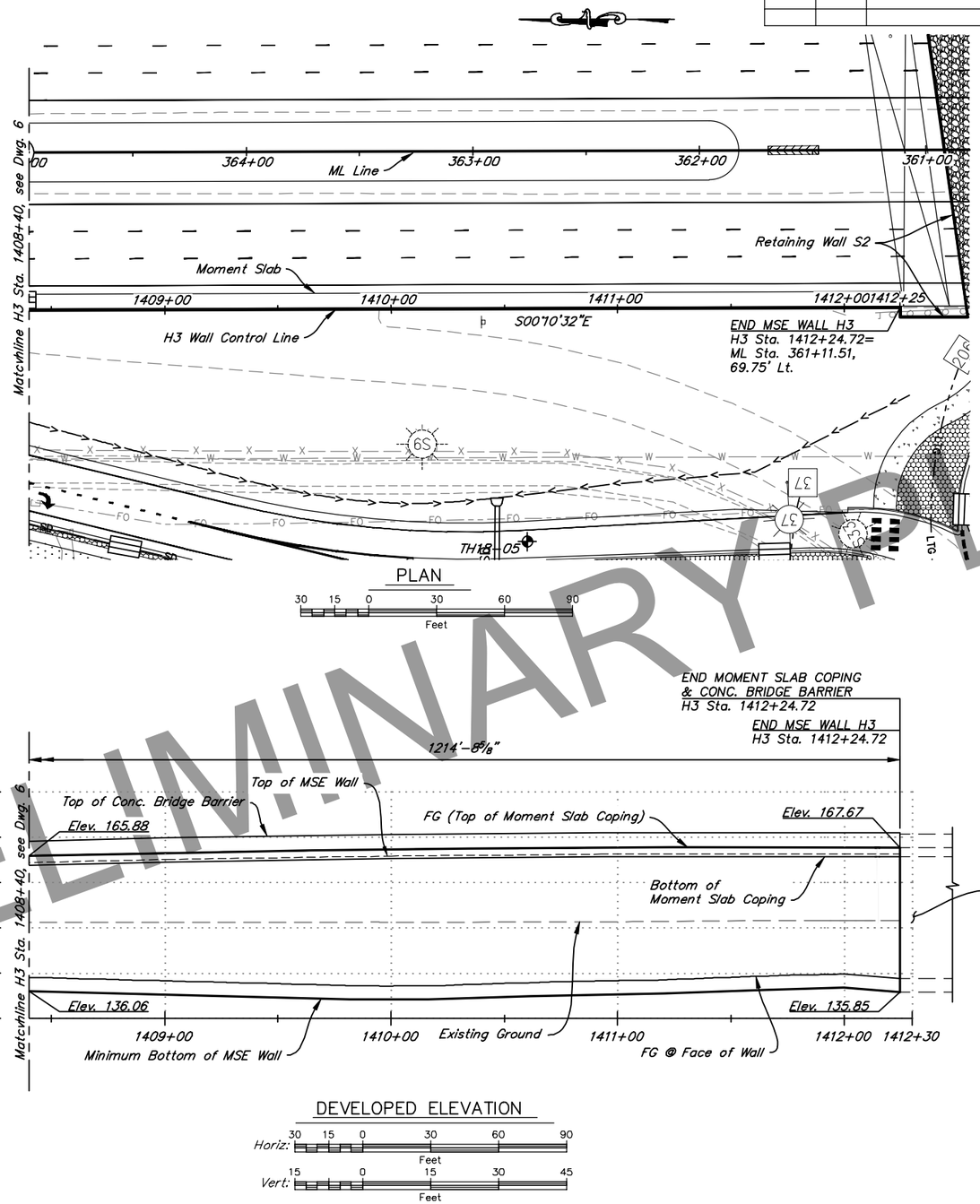
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL H3 LAYOUT (1 OF 2)

DWG. NO. 6

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M7	M17



Note:
For vertical profile information, see F Sheets.

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

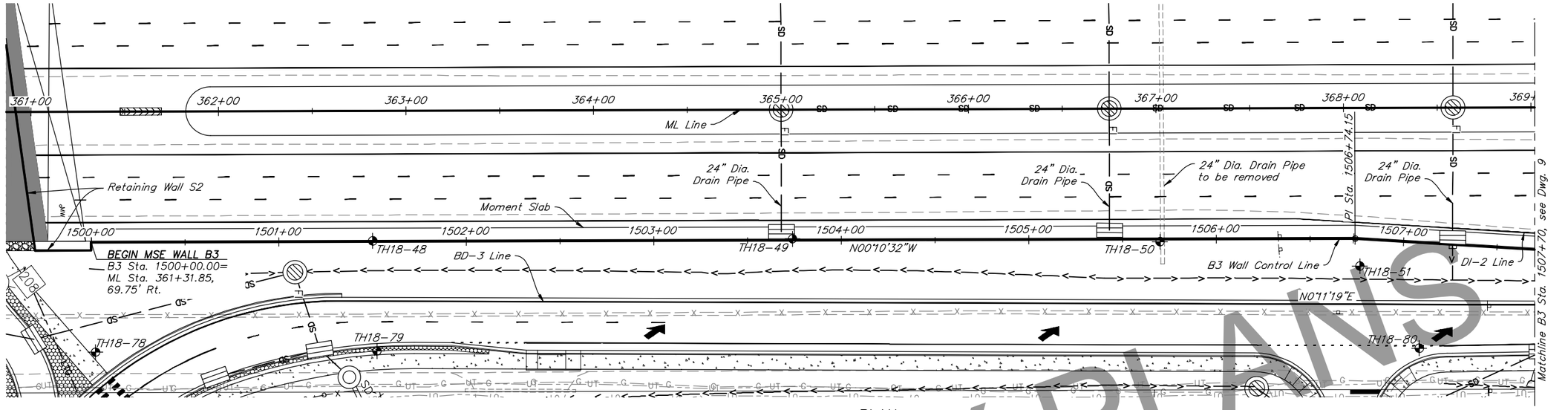
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL H3 LAYOUT (2 OF 2)

DWG. NO. 7

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-H3-02.dwg Apr 11,2022 – 11:06am

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M8	M17

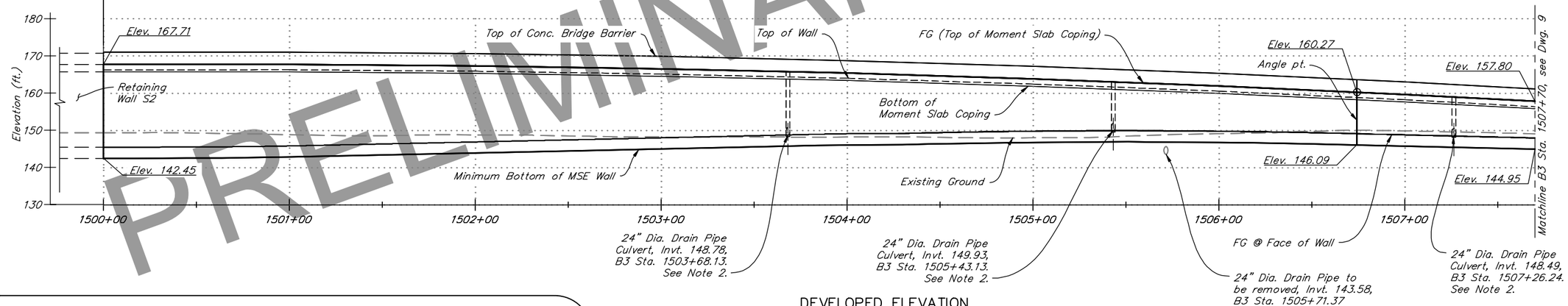


PLAN

30 15 0 30 60 90
Feet

BEGIN MOMENT SLAB COPING & CONC. BRIDGE BARRIER
B3 Sta. 1500+00.00

BEGIN MSE WALL B3
B3 Sta. 1500+00.00



DEVELOPED ELEVATION

Horiz: 30 15 0 30 60 90 Feet

Vert: 15 0 15 30 45 Feet

PRELIMINARY PLANS

RETAINING WALL B3 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0004.0000	Concrete Bridge Barrier	LF	LF	1096
511.0001.0000	Mechanically Stabilized Earth Wall	SF	SF	16,405
511.0001.0002	Mechanically Stabilized Earth Wall, Moment Slab Coping	LF	LF	1096
606.0016.0000	Transition Rail	EA	EA	1

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. For vertical profile information, see F Sheets.
2. Drain culvert pipe end shall be flush with face of MSE wall. MSE wall details at pipe penetrations by contractor.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

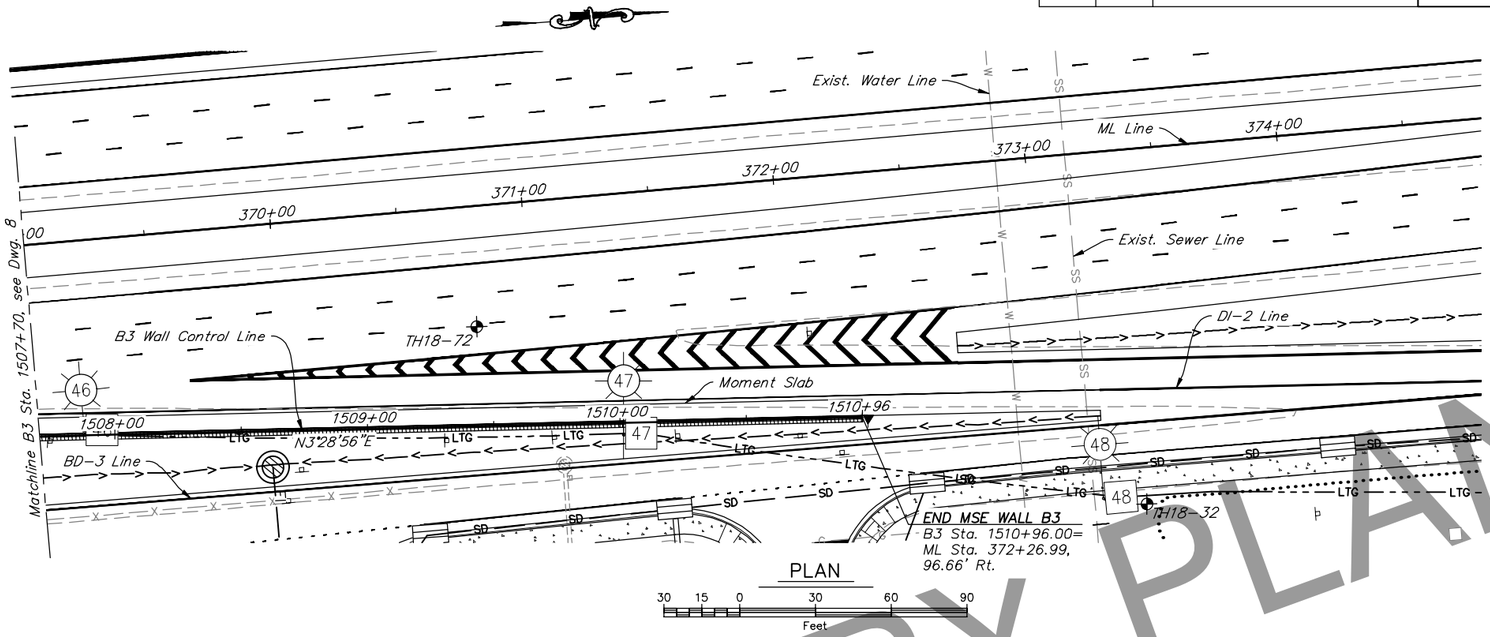
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL B3 LAYOUT (1 OF 2)

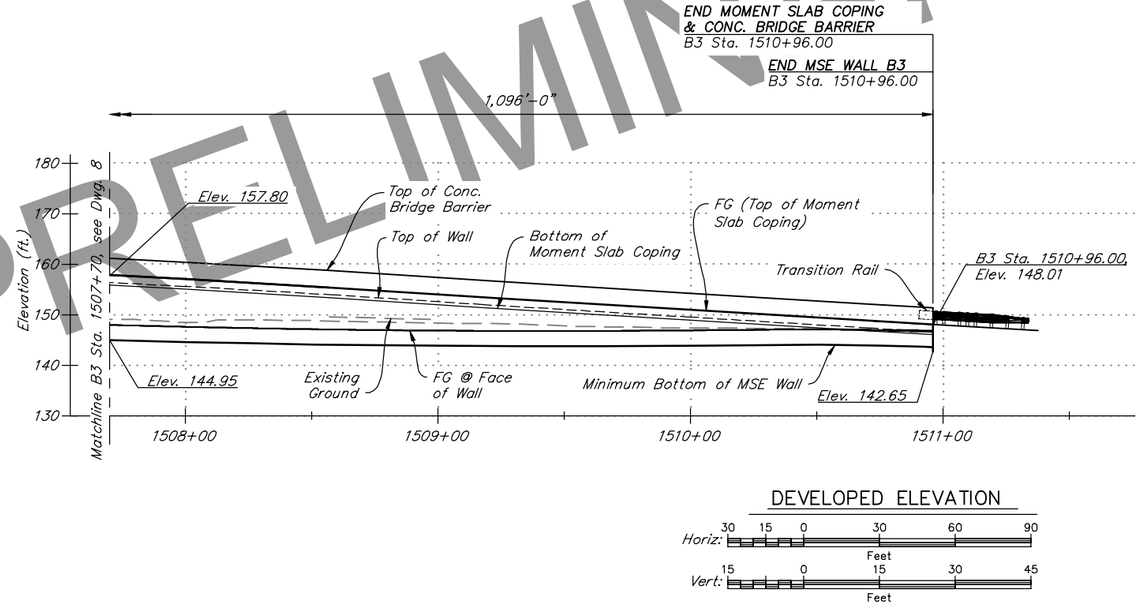
DWG. NO. 8

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-B3-01.dwg Apr 04,2022 - 2:04pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M9	M17





Note:
For vertical profile information, see F Sheets.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL B3 LAYOUT (2 OF 2)

DWG. NO. 9

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-B3-02.dwg Apr 04,2022 – 2:36pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M10	M17

GENERAL NOTES:

Design shall conform to the requirements for Load and Resistance Factor Design of the 2017 AASHTO LRFD Bridge design Specifications, 8th Edition.

Peak Ground Acceleration equal to 0.54 (1,000 year return period.) Design Horizontal Ground Acceleration equal to 0.27 (~ 1/2 of PGA) for seismic lateral earth loads and global stability for seismic loading.

Provide a minimum design service life of 75 years for all components.

Retaining wall designed for the following soil Property values:

	Density pcf	Angle of Internal Friction	c psf	Ka
MSE Structure Backfill.	γ_1 = 135	34°	0	0.28
Foundation Fill	γ_2 = 125	34°	0	0.28
Retained Material	γ_3 = 125	34°	0	0.28

Seismic Active Earth Pressure Coefficient, K_{AE} = 0.46

Load factors:
Apply load factors per 2017 AASHTO LRFD Specifications, 8th Edition. Live Load (LL) should not be included with seismic design for project load conditions 1 and 2.

Seismic resistance factors:
- Sliding ____ 1.0
- Limiting Eccentricity ____ Location of resultant of reaction forces as per section 11.6.3.3 of 2017 AASHTO LRFD Specifications, 8th Edition.
- Bearing Capacity ____ 0.65

Estimated total settlement of MSE structure = 1 inch
Estimated differential settlement = 1/100

WALL	MAX HEIGHT, H (FT.)	MAX. REQUIRED LENGTH, L '(FT.)	L/H	EXTERNAL STABILITY: LIMITING ECCENTRICITY SATISFIED?	EXTERNAL STABILITY: SLIDING CDR[2]	EXTERNAL STABILITY: BEARING CAPACITY CDR[2]	GLOBAL FACTOR OF SAFETY – STATIC[3]
H2	29	26	0.9	YES	1.5	5.2	1.6
B2	25	18	0.7	YES	1.2	5.1	1.6
H3/B3[4]	32/25	26/20	0.8	YES	1.4	2.9	1.6
S1/S2[4,5]	29/32	29/32	1.0	YES	2.1	2.8	1.8

Notes:
1. Minimum Reinforcement Length (L) is either 0.7*H or 8 feet, whichever is greater.
2. Minimum Capacity Demand Ratio (CDR) for static external stability is 1.0.
3. Minimum Factor of Safety (FOS) for static global stability is 1.5.
4. Walls H3 & B3 have similar subsurface profiles. Walls S1 & S2 have similar subsurface profiles.
5. Walls S1 & S2 CDR = 1.0 for seismic sliding; FOS=1.2 and 0.9 for seismic global stability at 1/2*PGA and full PGA, respectively.

Project Load Conditions 1 – Load Calculations

$F_1 = \gamma_1 \cdot heq \cdot Ka_1 (a + b)$

$F_2 = \gamma_1 \cdot D \cdot Ka_1 (a + b)$

$F_3 = \frac{1}{2}\gamma_1 \cdot (a + b + D)^2 \cdot Ka_1 - \frac{1}{2}\gamma_1 (D)^2 \cdot Ka_1$

$F_4 = \gamma_1 \cdot heq \cdot Ka_3 \cdot (H - b + 1')$

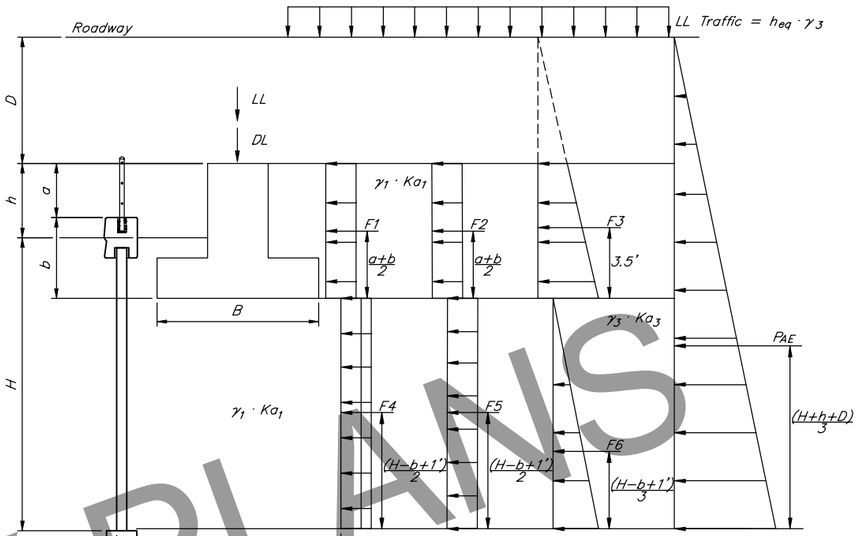
$F_5 = \gamma_1 (a + b) \cdot Ka_3 (H - b + 1')$

$F_6 = \frac{1}{2}\gamma_3 \cdot (H - b + 1')^2 \cdot Ka_3$

$P_{AE} = \frac{1}{2}\gamma_3 \cdot (H + h + D)^2 \cdot K_{AE}$

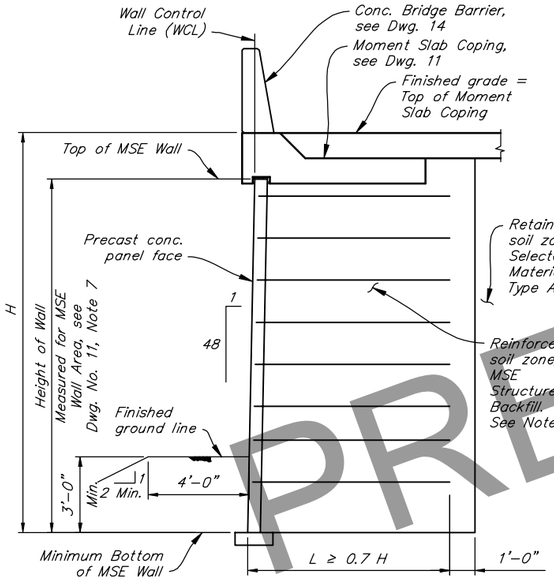
h_{eq} = See Table 3.11.6.4-2 of 2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

6. The MSE wall designer shall include a perforated drainage pipe system at the wall toe behind the facing at the approximate final grade elevation to prevent potential buildup of hydrostatic forces behind the wall facing. Minimum pipe slope shall be 0.5 percent. The drainage pipe system shall discharge at intervals into the frontage road ditch. Wall drainage piping design is subject to Engineer review and approval.

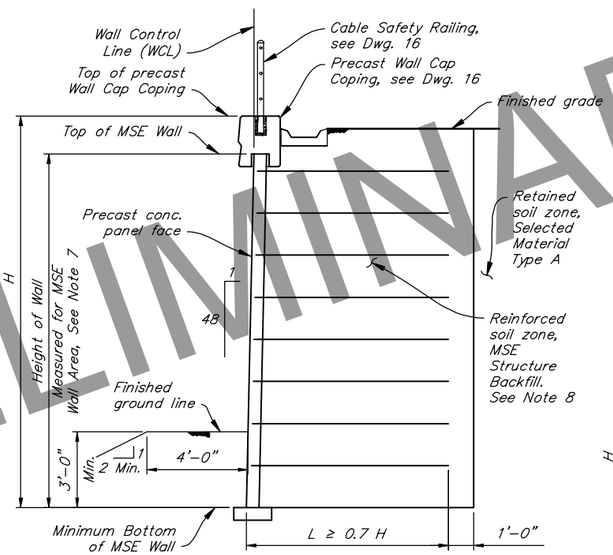


PROJECT LOAD CONDITIONS 1
No Scale

Notes:
9. Project Load Conditions 1 extent is from wall face to 6' behind bridge footing, then transition to Project Load Conditions 2.



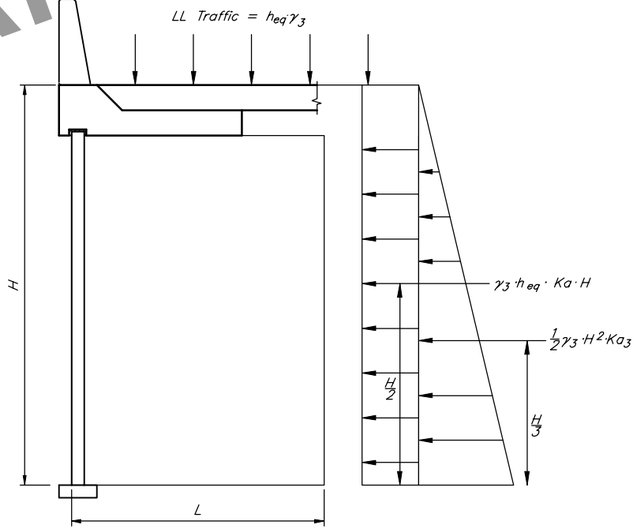
TYPICAL SECTION MSE WALL WITH MOMENT SLAB COPING
No Scale



TYPICAL SECTION MSE WALL WITH WALL CAP COPING
No Scale

Notes:
7. L shown on these contract plans is based on the overall stability requirements of the material and conditions surrounding the reinforced soil zone. An L greater than shown may be required to satisfy external and internal stability requirements.

8. MSE Structure Backfill in accordance with Section 511 of the specifications is included in Pay Item No. 511.0001.0000 and is not quantified separately in these drawings.



PROJECT LOAD CONDITIONS 2
No Scale

WALL	RECOMMENDED OVEREXCAVATION (ft.)
B2	10
B3	0
H2	0
H3	0
S1	5
S2	5

Notes:
10. Remove all material below the footprint of the retaining walls to the overexcavation depth in the table, from the wall face to the back of the reinforced zone. Slope excavation as required for stability and shore excavation as required to contain ground surface disturbance within the ROW, temporary construction permits (TCP), temporary construction easements (TCE) and permitted wetland impacts.

11. Peaty material under the existing mainline embankment was removed during construction of the original roadway, but loose or other unsuitable material may exist below the footprint of the retaining walls. Consult the Engineer if material in overexcavation is found to be suitable. Obtain the approval of the Engineer before placing Foundation Fill into the overexcavation.

WALL OVEREXCAVATION

DESIGNED BY: GREG FISCHER	CHECKED: JOHN BARKER
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: --	CHECKED: --

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

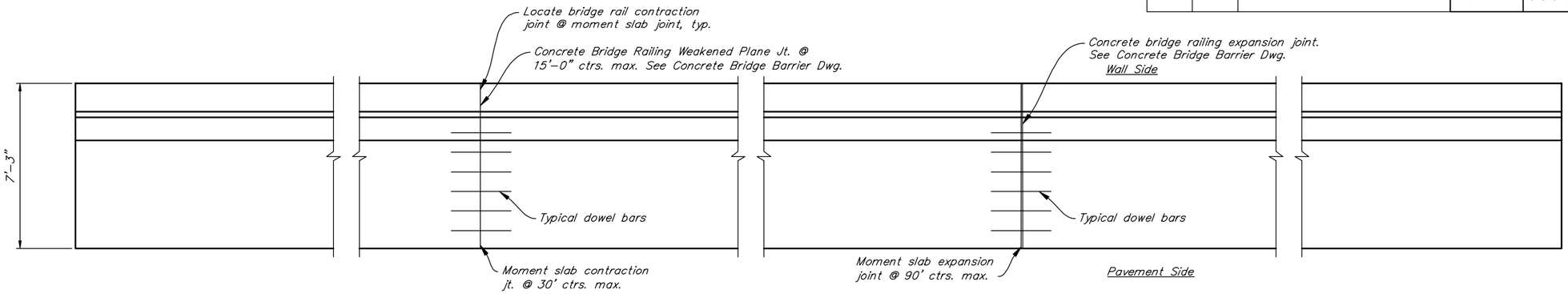
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
MSE WALL DETAILS

DWG. NO. 10

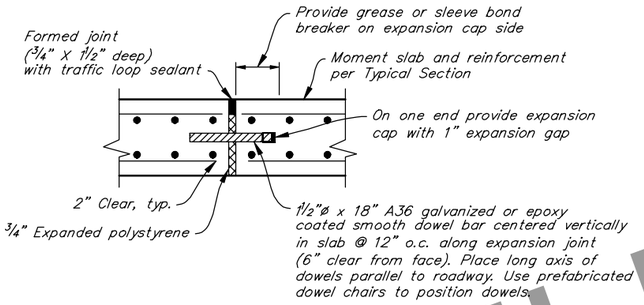
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-WD-01.dwg Apr 05,2022 - 9:04am

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M11	M17



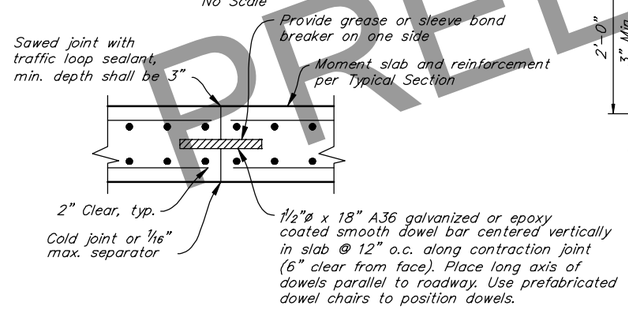
PLAN VIEW (JOINT SCHEME)

No Scale



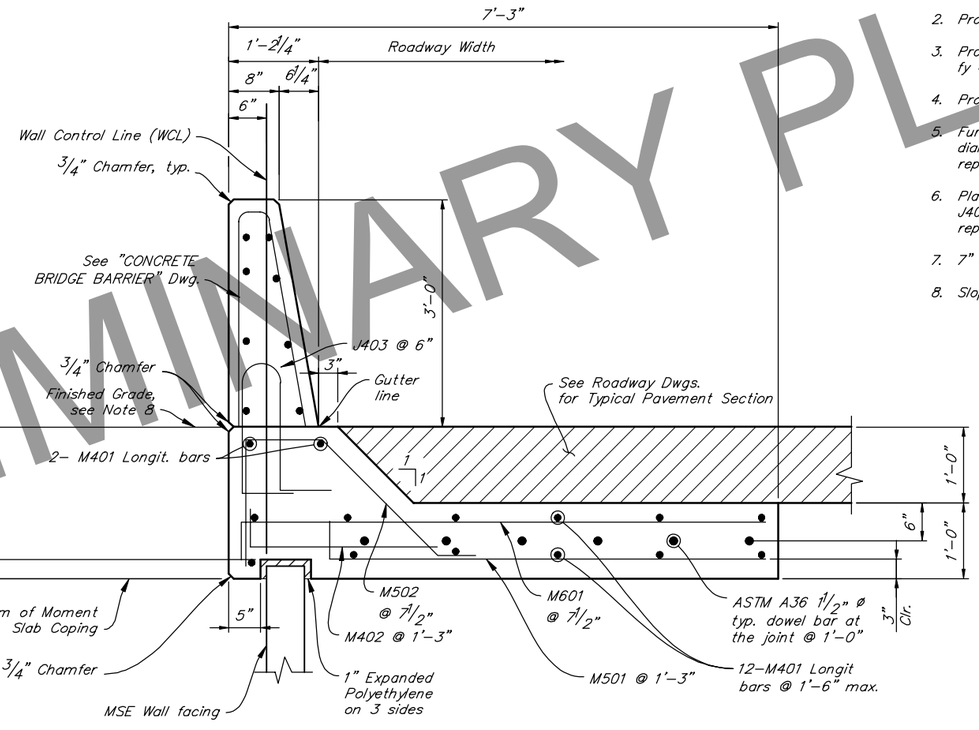
EXPANSION JOINT DETAIL

No Scale



CONTRACTION JOINT DETAIL

No Scale



MOMENT SLAB COPING TYPICAL SECTION

For Walls B2, B3, H2 and H3.

12 9 6 3 0 1 2
In. Feet

NOTES:

1. Moment slab coping is designed as per 2017 AASHTO LRFD Bridge Design Specifications, 8th Edition, with latest interim specifications. Moment slab is designed for TL-4 loading.
2. Provide Class A Concrete unless otherwise noted, f'c = 4000 psi.
3. Provide reinforcing steel conforming to ASTM A706 or AASHTO M31 Grade 60, fy = 60,000 psi.
4. Provide minimum 2" concrete cover, unless shown otherwise.
5. Furnish conduit expansion coupling, internally bonded, with a maximum outside diameter of 4.75" for conduit deflection fittings for temporary moment slab replacement from Dimond to Dowling Phase 1 Project. See Dwg. 12.
6. Place (2) M502 and (2) M601 bars each side of Junction Box. Place barrier bar J401 & M402 to avoid conflict with Junction Box for temporary moment slab replacement from Dimond to Dowling Phase 1 Project. See Dwg. 12.
7. 7" used in MSE wall area quantities shown on "LAYOUT" sheets.
8. Slope between gutter line & outside face of barrier is flat.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — REGISTERED PROFESSIONAL ENGINEER — CERTIFICATION APRIL 2022

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
MOMENT SLAB DETAILS (1 OF 3)

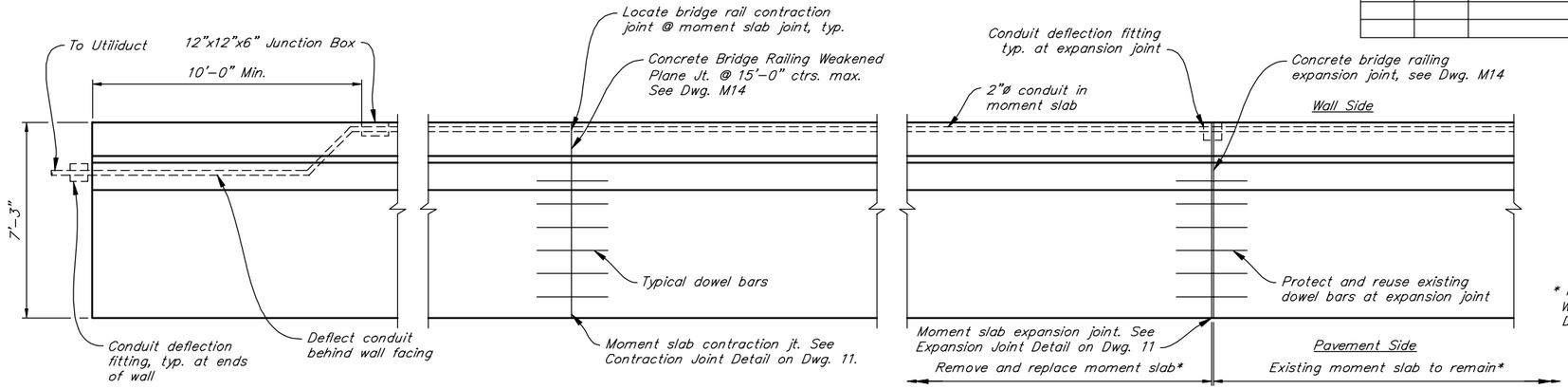
DWG. NO. 11

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 0012-WD-02.dwg Apr 04,2022 - 2:55pm

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 0012-WD-03.dwg Apr 04,2022 - 2:55pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M12	M17



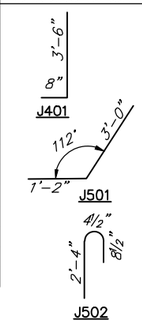
* Moment slab over MSE Wall "H1" from Dimond to Dowling Phase 1 Project.

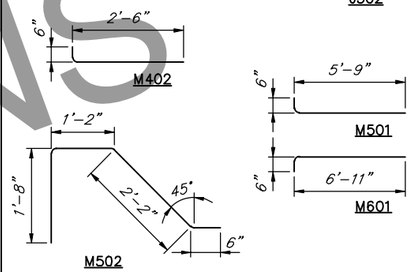
PLAN VIEW (JOINT SCHEME)

No Scale

REINFORCING STEEL

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
a	J401	4	35	4'-2"	Bent	
a	J501	5	51	4'-2"	Bent	
a	J502	5	35	3'-5"	Bent	
a,b	J503	5	6	49'-8"	–	
a,c	M401	4	14	24'-8"	–	
a,c	M402	4	21	3'-0"	Bent	
a,d	M405	4	1	5'-0"	–	
a,c	M501	5	21	6'-3"	Bent	
a,c,e	M502	5	41	5'-6"	Bent	
a,c,e	M601	6	41	7'-5"	Bent	

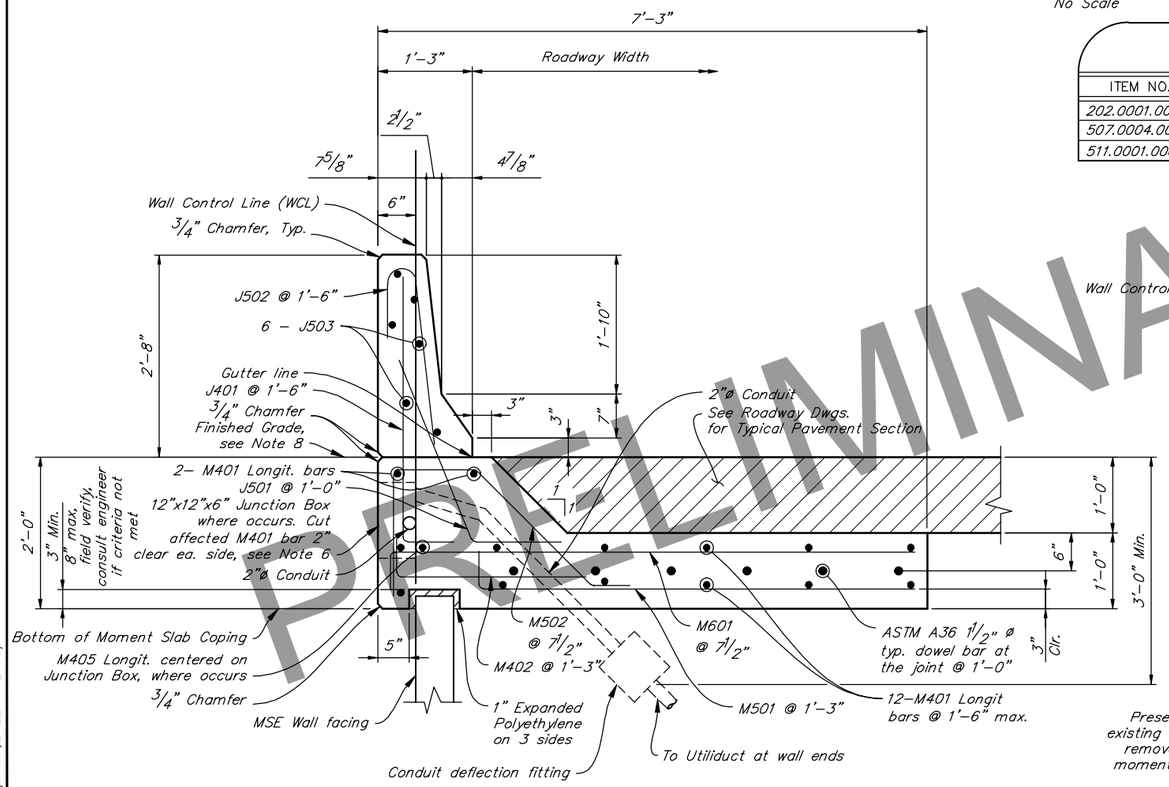




a – Epoxy coat reinforcing steel.
b – Length does not include Lap Splices. Minimum Lap Splice length for No. 5 Bar = 3'-3".
c – Reinforcing steel quantities and lengths are per each of (2) 25'-0" length between slab ends and contraction joints.
d – Quantity for M405 bar shown for a single junction box location.
e – Excludes (2) M502 and (2) M601 bars each side of Junction Box.

D2D MOMENT SLAB COPING AND BARRIER BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
202.0001.0000	Removal of Structures and Obstructions	LS	CY	31
507.0004.0000	Concrete Bridge Barrier	LF	LF	50
511.0001.0002	Mechanically Stabilized Earth Wall, Moment Slab Coping	LF	LF	50



D2D MOMENT SLAB COPING & BARRIER REPLACEMENT

ML Sta. 411+89.00, 69.75' Lt. to ML Sta. 411+38.97, 71.56' Lt.
(Dimond to Dowling, Phase 1 Project – H1 Sta. 99+99.50 to H1 Sta. 100+49.54)

12 9 6 3 0 1 2
in. Feet

For notes called out on Typical Section, see notes on "MOMENT SLAB DETAILS (1 OF 3)".

D2D REMOVE TEMPORARY MOMENT SLAB COPING & BARRIER

ML Sta. 411+89.00, 69.75' Lt. to ML Sta. 411+38.97, 72.56' Lt.
(Dimond to Dowling, Phase 1 Project – H1 Sta. 99+99.50 to H1 Sta. 100+49.54)

12 9 6 3 0 1 2
in. Feet

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

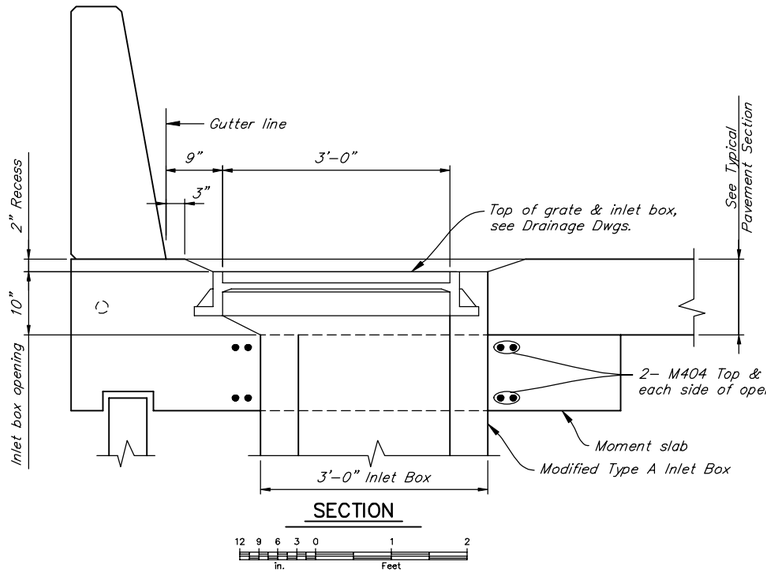
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
MOMENT SLAB DETAILS (2 OF 3)

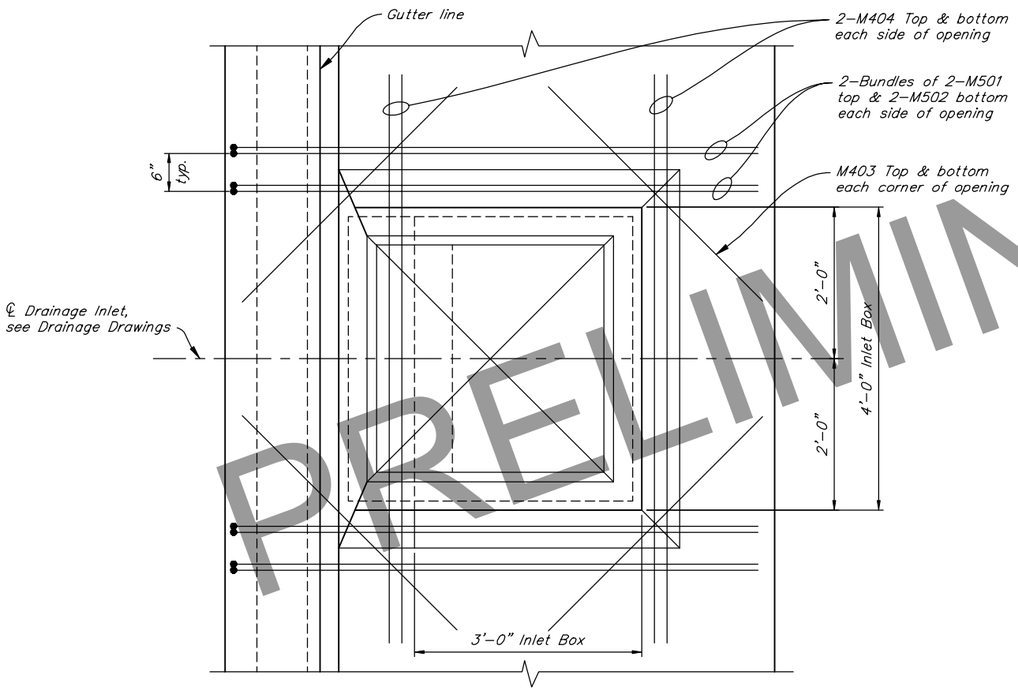
DWG. NO. 12

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M13	M17



SECTION

12 9 6 3 0 1 2
in. Feet



PLAN

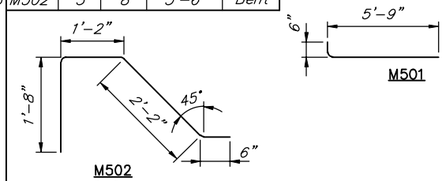
MOMENT SLAB AT DRAINAGE INLET

12 9 6 3 0 1 2
in. Feet

Notes:
1. Typical moment slab reinforcing not shown (cut 2" clear of inlet box).
2. Grate and frame shall be heavy duty Neenah Foundry Catalog No. R-3437 or approved equal.

REINFORCING STEEL

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
a,b	M403	4	8	4'-0"	–	
a,b	M404	4	8	8'-0"	–	
a,b,c	M501	5	8	6'-3"	Bent	
a,b	M502	5	8	5'-6"	Bent	



a – Epoxy coat reinforcing steel.
b – At each drainage inlet
c – Cut as required at each drainage inlet

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
MOMENT SLAB DETAILS (3 OF 3)

DWG. NO. 13

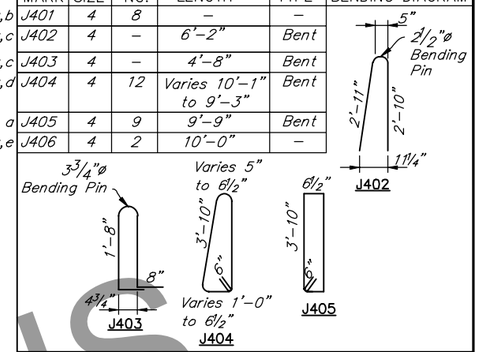
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M14	M17

RETAINING WALL BRIDGE BARRIERS

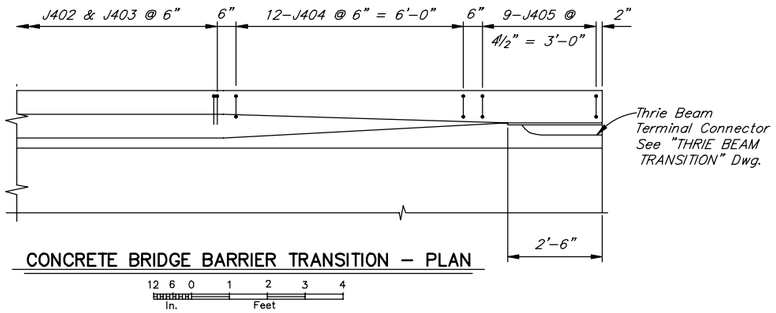
WALL	J401 LENGTH (FT)	J402 NO. OF BARS	J403 NO. OF BARS
H2	574'–0"	1129	1129
B2	620'–0"	1220	1220
H3	1,215'–0"	2411	2411
B3	1,096'–0"	2173	2173

REINFORCING STEEL–ONE RAIL

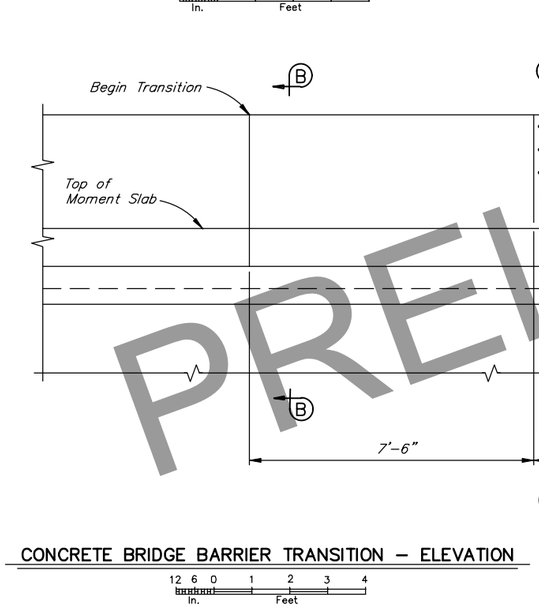
	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
a,b	J401	4	8	–	–	
a,c	J402	4	–	6'–2"	Bent	
a,c	J403	4	–	4'–8"	Bent	
a,d	J404	4	12	Varies 10'–1" to 9'–3"	Bent	
a	J405	4	9	9'–9"	Bent	
a,e	J406	4	2	10'–0"	–	



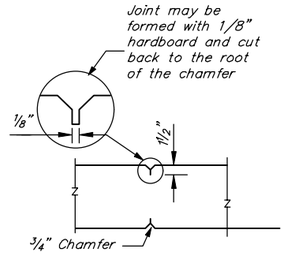
a – Epoxy coat all reinforcing steel.
b – Length varies for each retaining wall and does not include Lap Splices. Minimum Lap Splice length for No. 4 Bar = 2'–7". See "RETAINING WALL BRIDGE BARRIERS" table for length.
c – Number of bars varies for each retaining wall. See "RETAINING WALL BRIDGE BARRIERS" table for number of bars required.
d – Bar varies in shape such that the width of the bar shape is 6½" at the Thrue Beam Terminal Connector end of the transition.
e – Number of bars shown is per bridge barrier transition.



CONCRETE BRIDGE BARRIER TRANSITION – PLAN

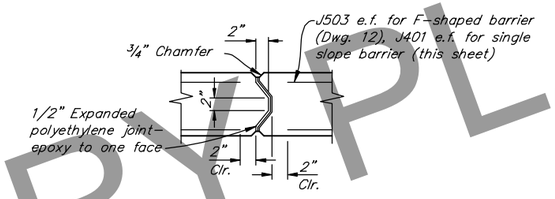


CONCRETE BRIDGE BARRIER TRANSITION – ELEVATION



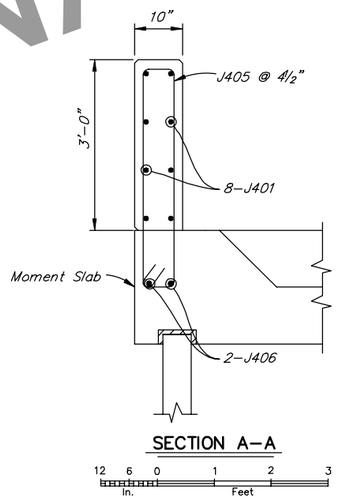
BRIDGE BARRIER WEAKENED PLANE JOINT DETAIL

Locate at 15'–0" ctrs. max.
No Scale

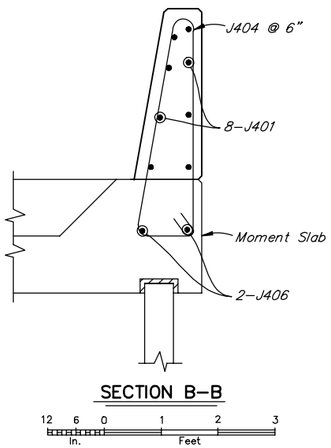


BRIDGE BARRIER EXPANSION JOINT DETAIL

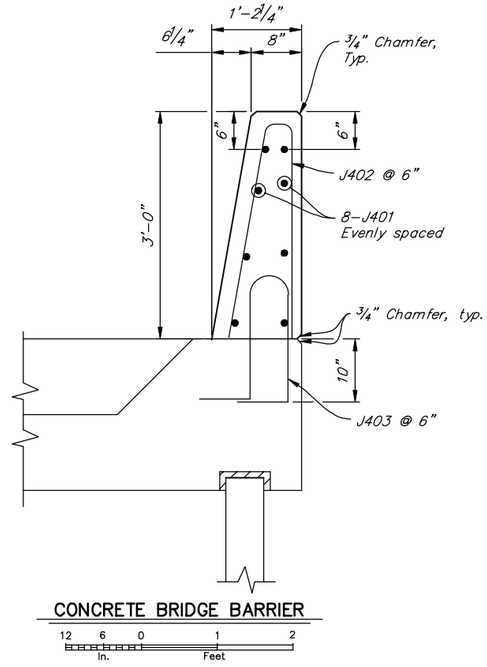
Locate at 90'–0" ctrs. max.
No Scale



SECTION A–A



SECTION B–B



CONCRETE BRIDGE BARRIER

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

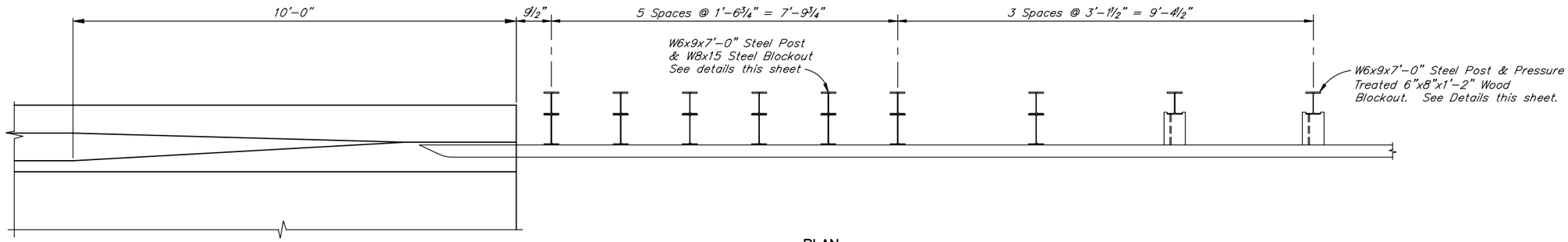
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
CONCRETE BRIDGE BARRIER

DWG. NO. 14

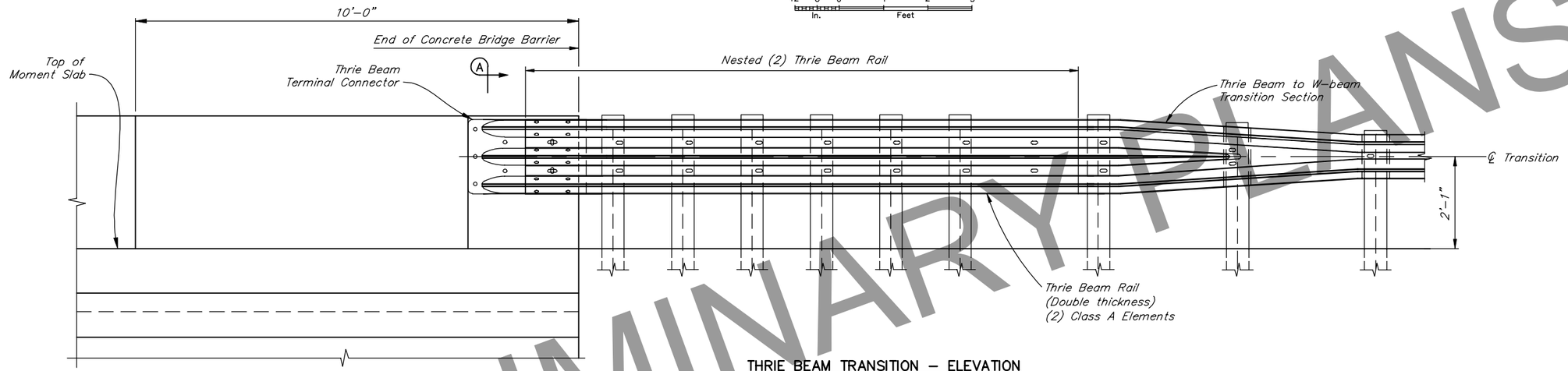
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M15	M17



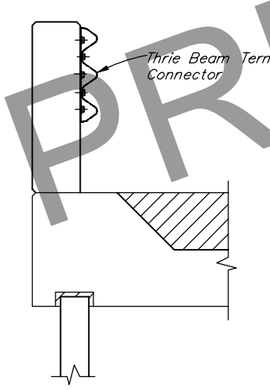
PLAN

12 6 0 1 2 3
In. Feet



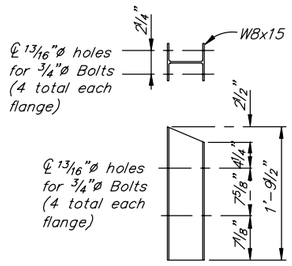
THRIE BEAM TRANSITION – ELEVATION

12 6 0 1 2 3
In. Feet



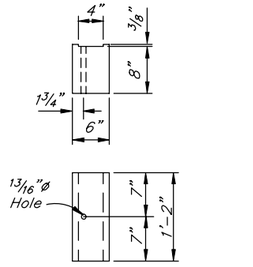
SECTION A–A

12 6 0 1 2 3
In. Feet



THRIE BEAM BLOCKOUT

12 6 0 1 2
In. Feet



WOOD BLOCKOUT

12 6 0 1 2
In. Feet

NOTES:

1. All guardrail and connection hardware to conform to AASHTO M-180. All H.S. Bolts conform to ASTM F3125 Grade A325. All other steel to conform to ASTM A709 Grade 36.
2. Conform to G-00.05, G-05.11, G-32.02 for all guardrail details not shown.
3. Lap approach guardrail to prevent snags from oncoming traffic.
4. Provide 2" horizontal slot in approach guardrail. Adjust guardrail bolts for sliding fit.

PRELIMINARY PLANS

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

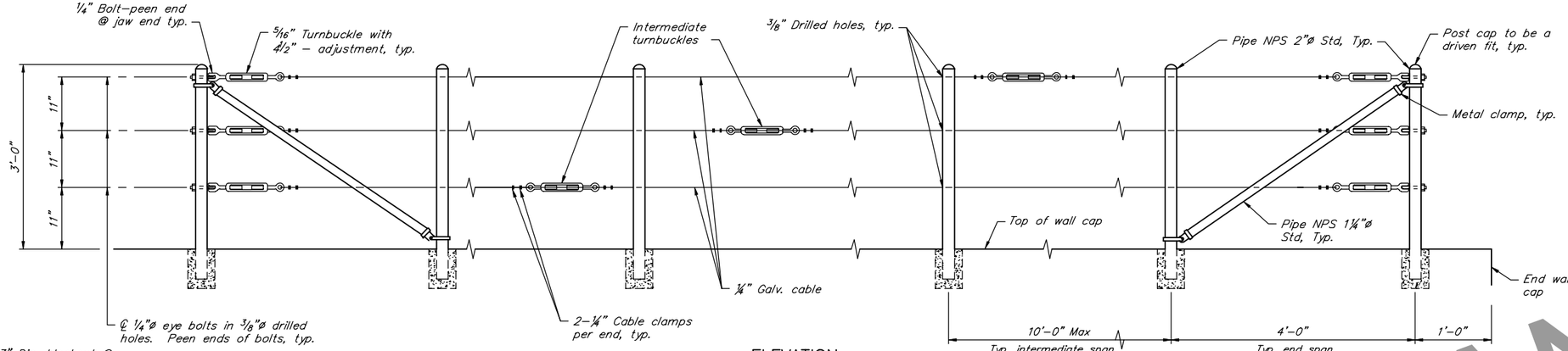
STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
THRIE BEAM TRANSITION

DWG. NO. 15

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-WD-06.dwg Apr 04,2022 - 3:02pm

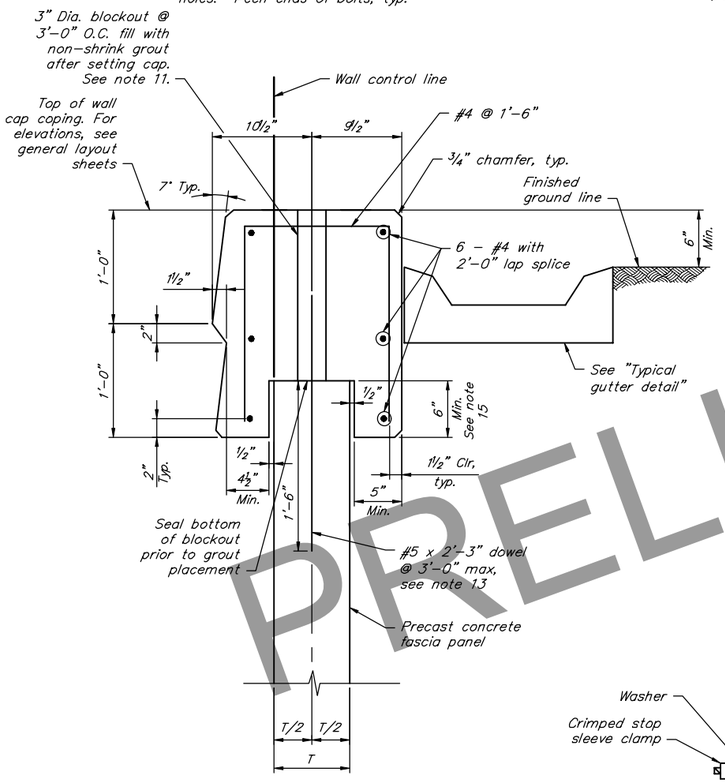
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M16	M17



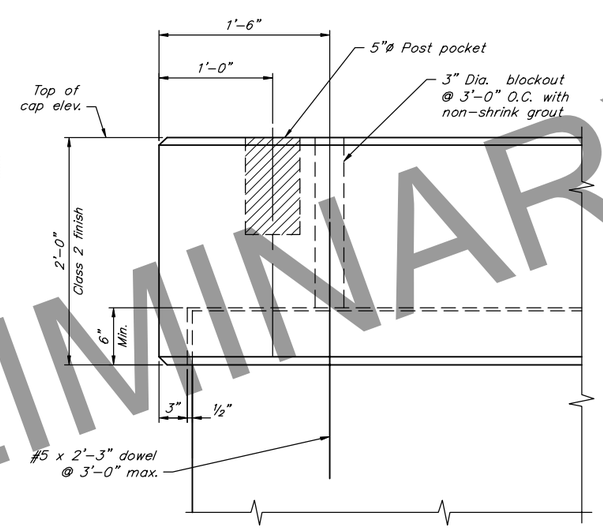
ELEVATION
No Scale

NOTES:

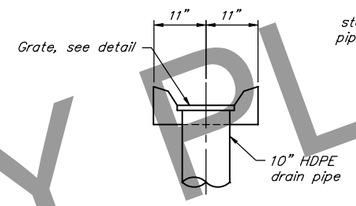
1. Intermediate turnbuckles to be placed in adjacent spans.
2. Do not splice cable between intermediate turnbuckles and end posts.
3. All posts, cable and hardware to be galvanized steel conforming to AASHTO M181.
4. Posts to be plumb.
5. Alignment of holes in posts may vary to conform to slope of top of retaining wall.
6. Verify all controlling dimensions in the field before ordering or fabricating any material.
7. Brace posts with diagonal braces at each end, each change in direction and at each change in slope.
8. Post pockets to be centered in top of wall cap.
9. Provide thimbles at all cable loops.
10. Do not place post directly beneath girder bottom flanges.
11. Space 3"ø block outs to avoid post pockets.
12. In locations where top of wall cap is not level, angle post pocket in the wall cap so that post can be installed plumb.
13. Place dowels to avoid reinforcement in wall panels.
14. Tighten turnbuckle to remove slack from cable.
15. 6" used for S1 and S2 MSE wall area quantities and soil nail wall area shown on "general layout".



WALL CAP COPING DETAIL
No Scale

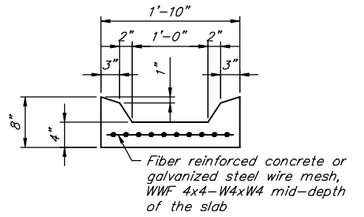


CAP OVERHANG DETAIL
No Scale

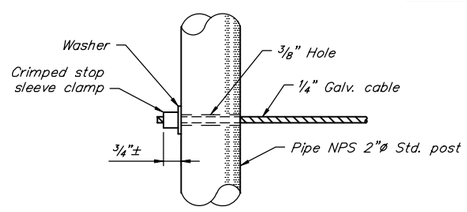


GUTTER DRAIN DETAIL
No Scale

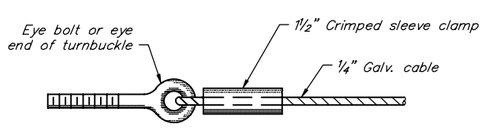
GRATE DETAIL
No Scale



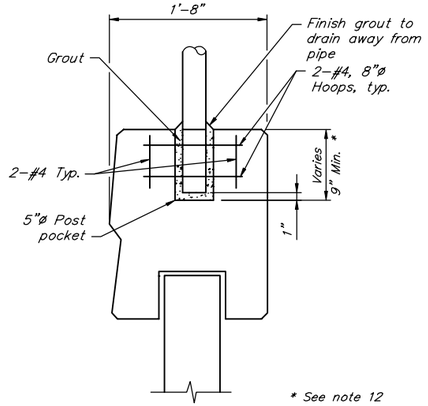
TYPICAL GUTTER DETAIL
No Scale



ALTERNATIVE DEAD END ANCHORAGE
No Scale



ALTERNATIVE CABLE CONNECTION
No Scale



POST POCKET DETAIL
No Scale

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

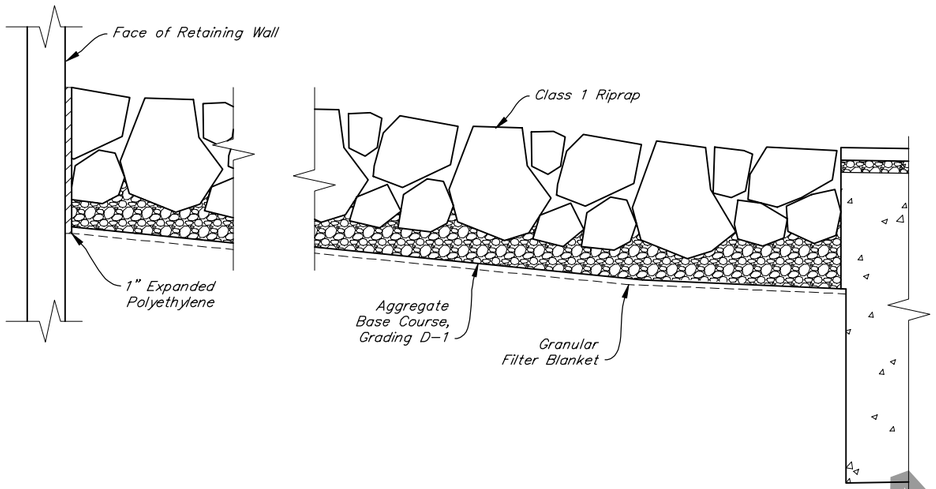
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
WALL CAP & CABLE SAFETY RAILING DETAILS

DWG. NO. 16

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762–1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012–WD–07.dwg Apr 04,2022 – 2:56pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M17	M17



RIPRAP TYPICAL SECTION

Note:
Granular Filter Blanket shall have thickness of 4", Gradation of D50=4".

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 0012-WD-08.dwg Apr 04,2022 - 3:01pm

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

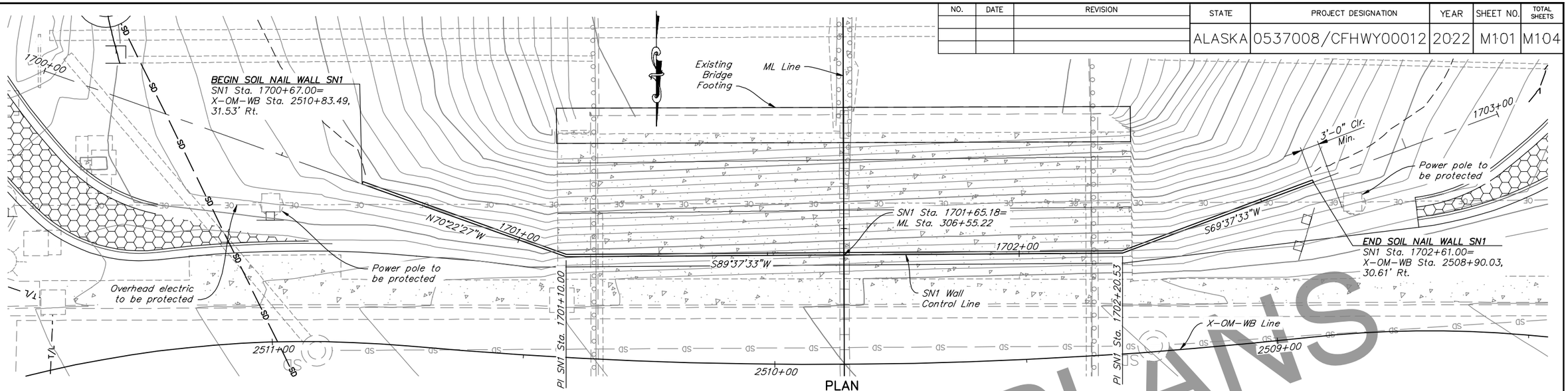
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RIPRAP DETAILS

DWG. NO. 17

NO.	DATE	REVISION

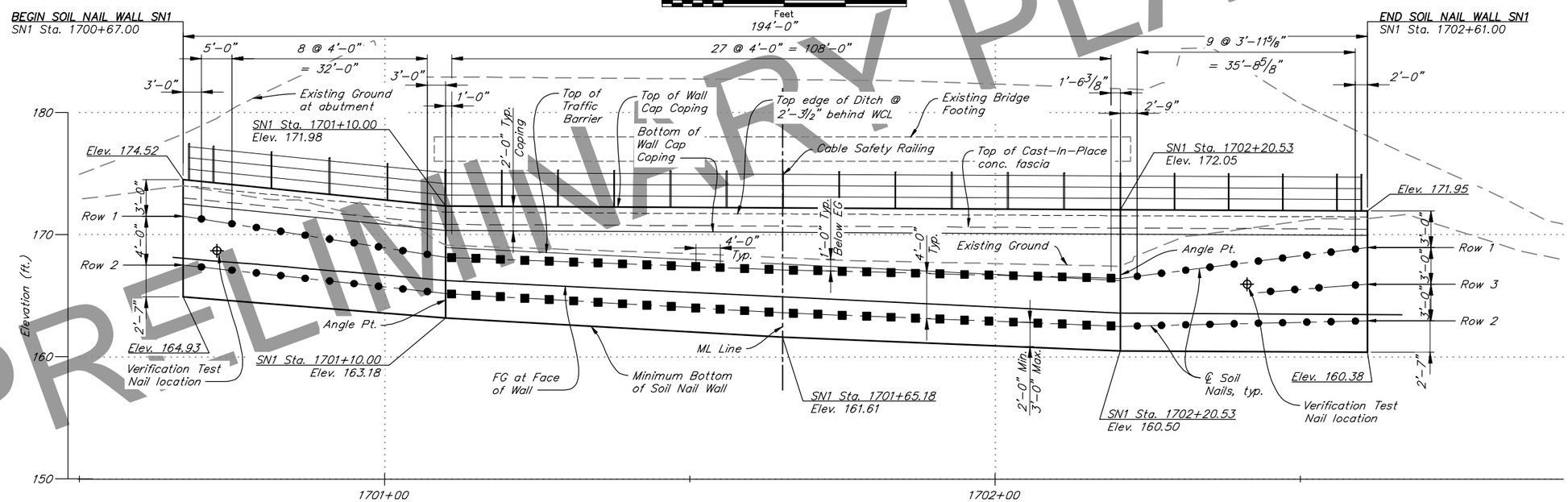
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M101	M104



PLAN

10 5 0 10 20 30
Feet

194'-0"



Notes:
1. Verification tests on sacrificial test nails shall be conducted as shown on Elevation.
2. Proof tests shall be performed on at least 5% of production soil nails in each nail row or a minimum of one per row as determined by the Engineer.
3. Temporary casing or other methods to control soil movement during drilling is required. Remove temporary casing as the grout is being placed.

RETAINING WALL SN1 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0006.0000	Cable Safety Railing	LF	LF	195
517.2000.0000	Soil Nail Wall	SF	SF	1739
517.2001.0000	Soil Nail Wall Coping	LF	LF	195

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

LEGEND:
- ● Indicates #8 rebar
- ■ Indicates #10 rebar
- ⊕ Verification Test Nail

DEVELOPED ELEVATION

Horiz: 10 5 0 10 20 30 Feet

Vert: 5 0 5 10 15 Feet

SOIL NAIL SCHEDULE

	Row	Minimum Nail Hole Dia. (in)	Nail Size	Minimum Length (ft)	Minimum Design Load Transfer (K/Ft)	α	Elev.
Under Exist. Bridge Footing	1	6	#10 Rebar	32	1.6	15°	Varies
	2	6	#10 Rebar	32	1.6	15°	Varies
Beyond Exist. Bridge Footing	1	6	#8 Rebar	16	0.9	20°	Varies
	2 & 3	6	#8 Rebar	16	0.9	20°	Varies

DESIGNED BY: GREG FISCHER	CHECKED: JOHN BARKER
DRAWN BY: DARYL MONK	CHECKED: MANZAR KHOSHNEVISSAN
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

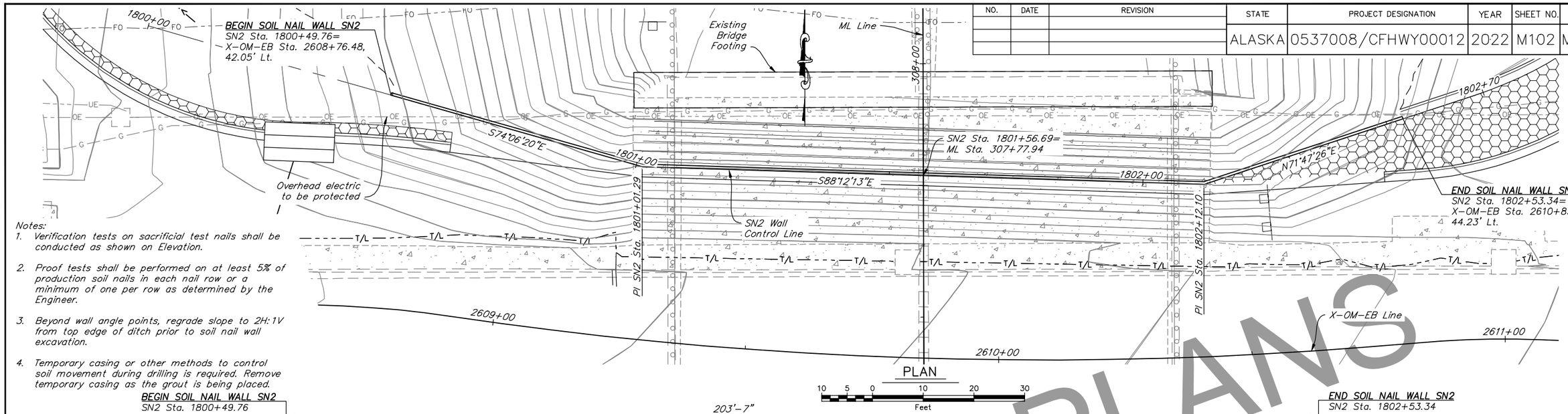
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL SN1 LAYOUT

DWG. NO. 101

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-SN1.dwg Apr 04,2022 - 2:06pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M102	M104

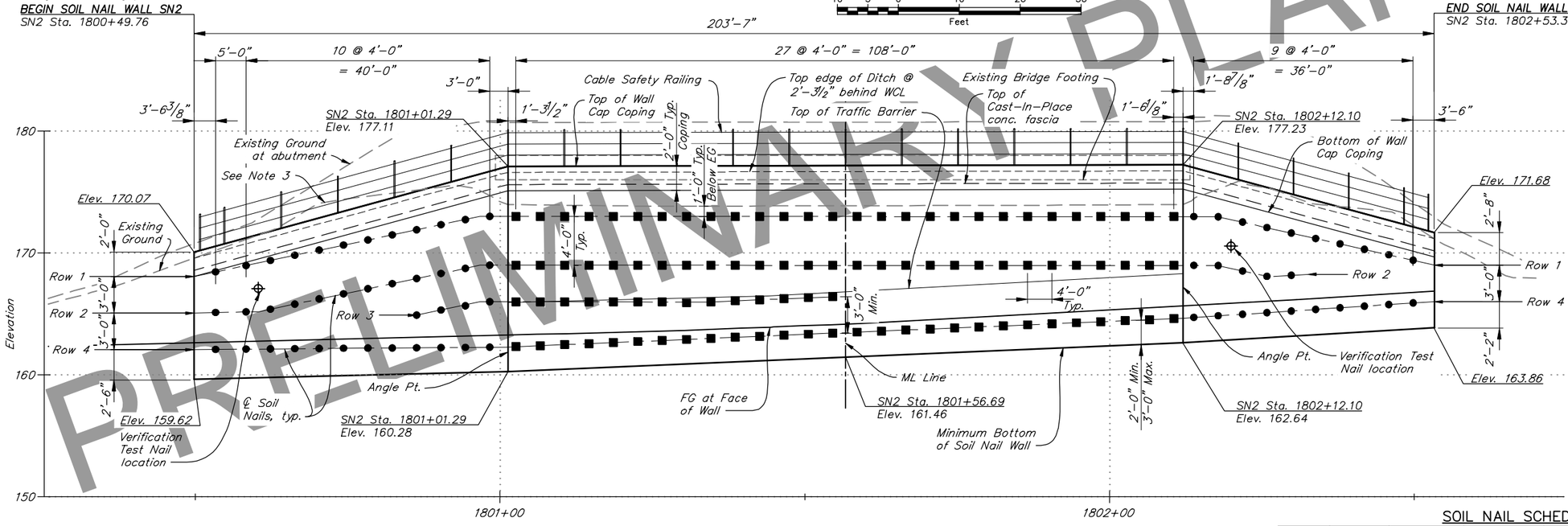


PLAN

10 5 0 10 20 30
Feet

Notes:

1. Verification tests on sacrificial test nails shall be conducted as shown on Elevation.
2. Proof tests shall be performed on at least 5% of production soil nails in each nail row or a minimum of one per row as determined by the Engineer.
3. Beyond wall angle points, regrade slope to 2H:1V from top edge of ditch prior to soil nail wall excavation.
4. Temporary casing or other methods to control soil movement during drilling is required. Remove temporary casing as the grout is being placed.



RETAINING WALL SN2 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
507.0006.0000	Cable Safety Railing	LF	LF	204
517.2000.0000	Soil Nail Wall	SF	SF	2601
517.2001.0000	Soil Nail Wall Coping	LF	LF	204

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

LEGEND:

- ● Indicates #8 rebar
- ■ Indicates #10 rebar
- ⊕ Verification Test Nail

DEVELOPED ELEVATION

Horiz: 10 5 0 10 20 30 Feet

Vert: 5 0 5 10 15 Feet

SOIL NAIL SCHEDULE

	Row	Minimum Nail Hole Dia. (in)	Nail Size	Minimum Length (ft)	Minimum Design Load Transfer (K/Ft)	α	Elev.
Under Exist. Bridge Footing	1	6	#10 Rebar	32	1.6	15°	Varies
	2	6	#10 Rebar	32	1.6	15°	Varies
	3 & 4	6	#10 Rebar	32	1.6	15°	Varies
Beyond Exist. Bridge Footing	1	6	#8 Rebar	16	0.9	20°	Varies
	2	6	#8 Rebar	16	0.9	20°	Varies
	3 & 4	6	#8 Rebar	16	0.9	20°	Varies

DESIGNED BY: GREG FISCHER	**CHECKED:** JOHN BARKER
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

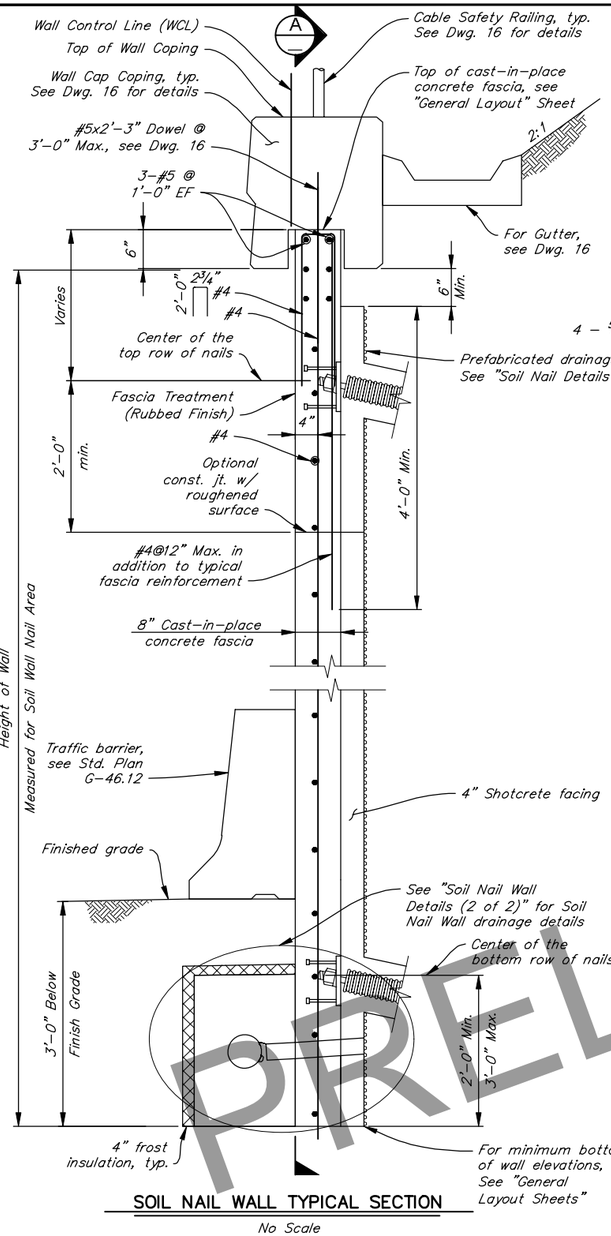
STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
RETAINING WALL SN2 LAYOUT

DWG. NO. 102

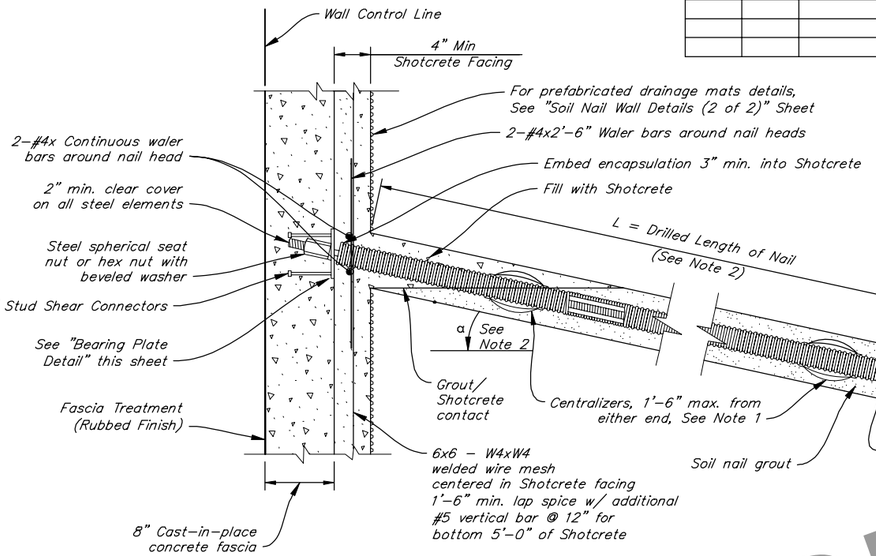
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-SN2.dwg Apr 04,2022 – 2:32pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M103	M104



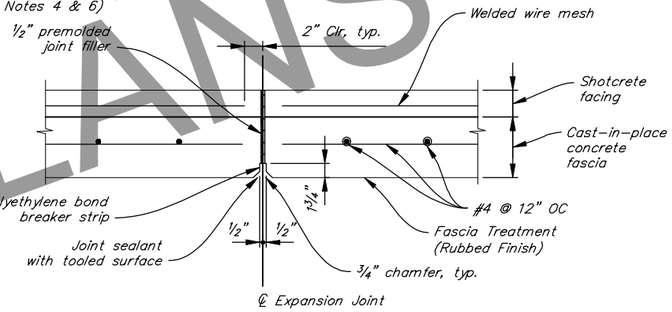
SOIL NAIL WALL TYPICAL SECTION

No Scale



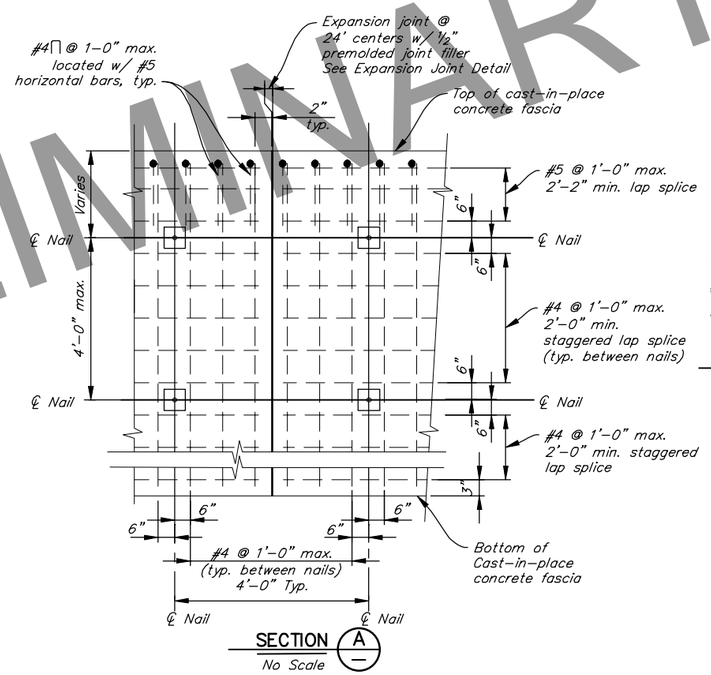
TYPICAL SOIL NAIL & WALL FACING DETAIL

No Scale



EXPANSION JOINT DETAIL - SNW TO SNW

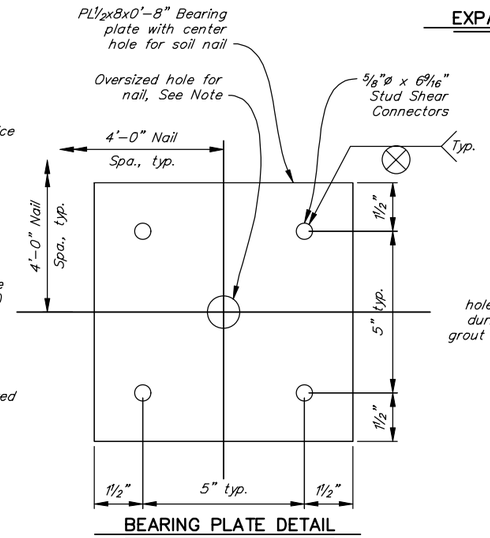
No Scale



SECTION A

No Scale

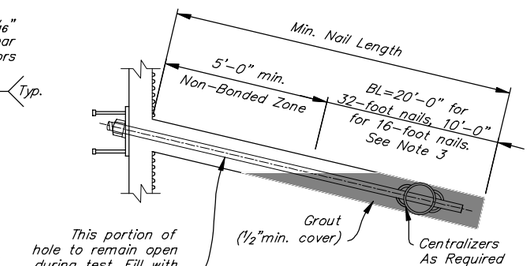
Note: SECTION NEAR MIDDLE OF WALL SHOWN.



BEARING PLATE DETAIL

No Scale

Note: Oversized hole diameter shall be 1¾" dia. for #10 Nails and 1½" for #8 Nails.



TEST SOIL NAIL DETAIL

No Scale

Notes:

1. Space Centralizers @ 8'-0" maximum along nail.
2. For length and angle of inclination of soil nails, See "General Layout" drawings.
3. Test Load (TL) match Production Nail Length proposed by contractor & submitted for approval by Engineer of Record prior to field testing.
   Test Load (KIPS) = Design Load Transfer x Bond Length
   TL = DLT(K/FT) x BL(FT)
4. Use epoxy coated and encapsulated soil nail tendons.
5. Shotcrete facing concrete & cast-in-place concrete strength f'c=4 ksi.
6. Soil nail tendons (epoxy coated threaded reinforcing steel), reinforcing steel (uncoated) and plain welded wire mesh (uncoated) Grade 60, fy=60 ksi.
7. Bearing plate Grade 50, fy=50 ksi.

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	BENJAMIN BLASEN
DRAWN BY:	**CHECKED:**
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	**CHECKED:**
--	--

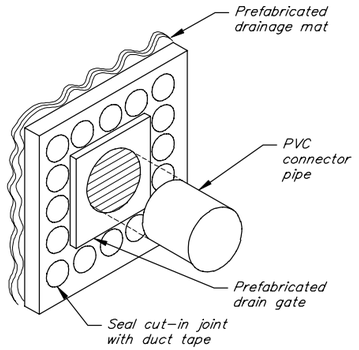
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

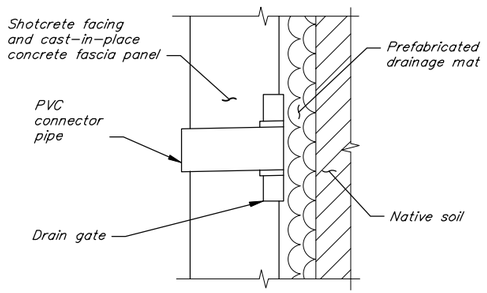
RETAINING WALLS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
SOIL NAIL WALL DETAILS (1 OF 2)

DWG. NO. 103

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M104	M104



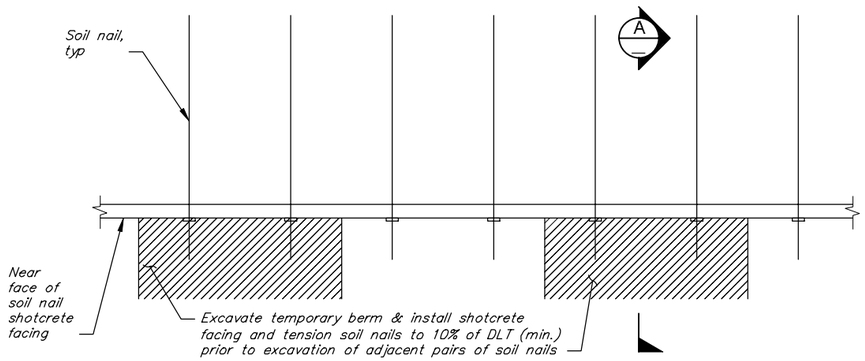
ISOMETRIC VIEW



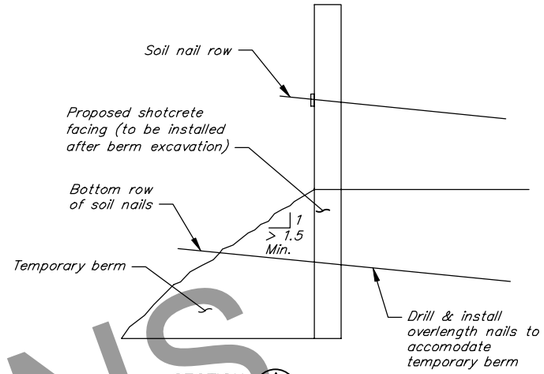
SECTIONAL VIEW

WEEP HOLE DRAINS
No Scale

Note:
(Do not disrupt prefabricated drainage mat when installing drain grate)

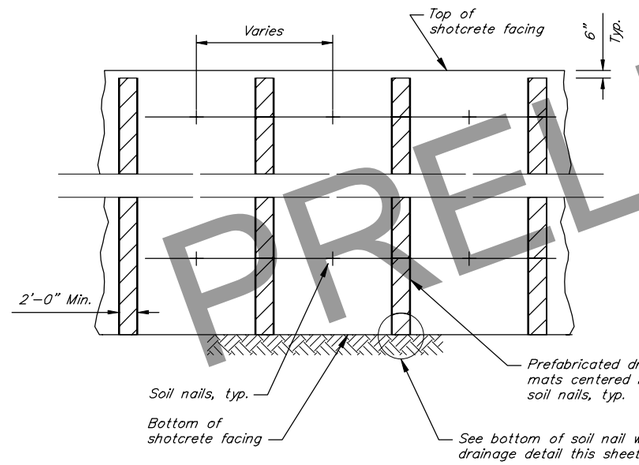


PLAN

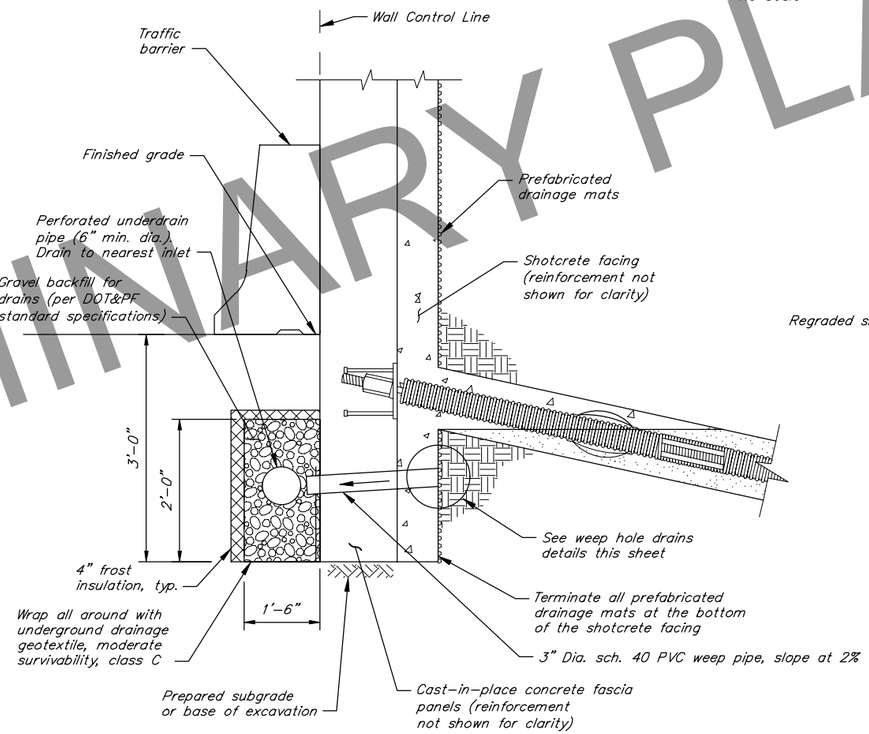


SECTION A

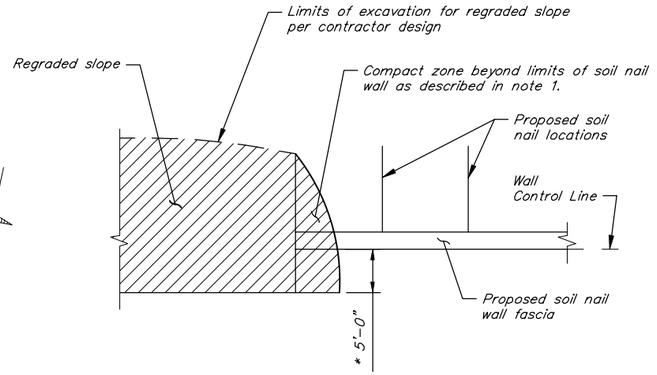
TEMPORARY FASCIA STABILIZATION DETAIL
No Scale



SOIL NAIL WALL FACING DRAINAGE DETAIL
No Scale



BOTTOM OF SOIL NAIL WALL DRAINAGE DETAIL
No Scale



PLAN

* Backfill within the soil nail wall limits should extend at least 5 feet in front of the wall control line and up to the original ground line.

SOIL NAIL WALL CONSTRUCTION BACKFILL DETAIL
No Scale

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** BENJAMIN BLASEN
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: --	**CHECKED:** --

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

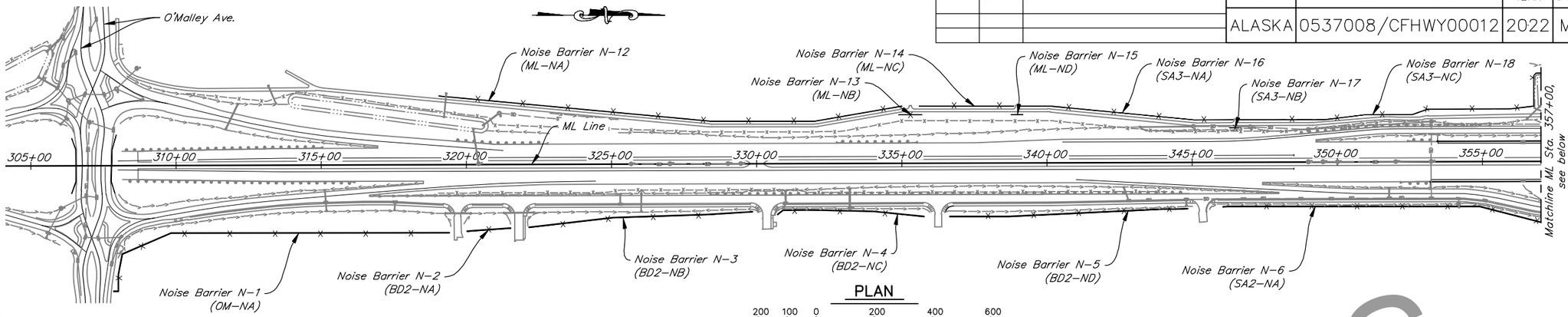
RETAINING WALLS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
SOIL NAIL WALL DETAILS (2 OF 2)

DWG. NO. 104

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC666
PW_429410 00012-SN-02.dwg Apr 01,2022 - 9:41am

NO.	DATE	REVISION

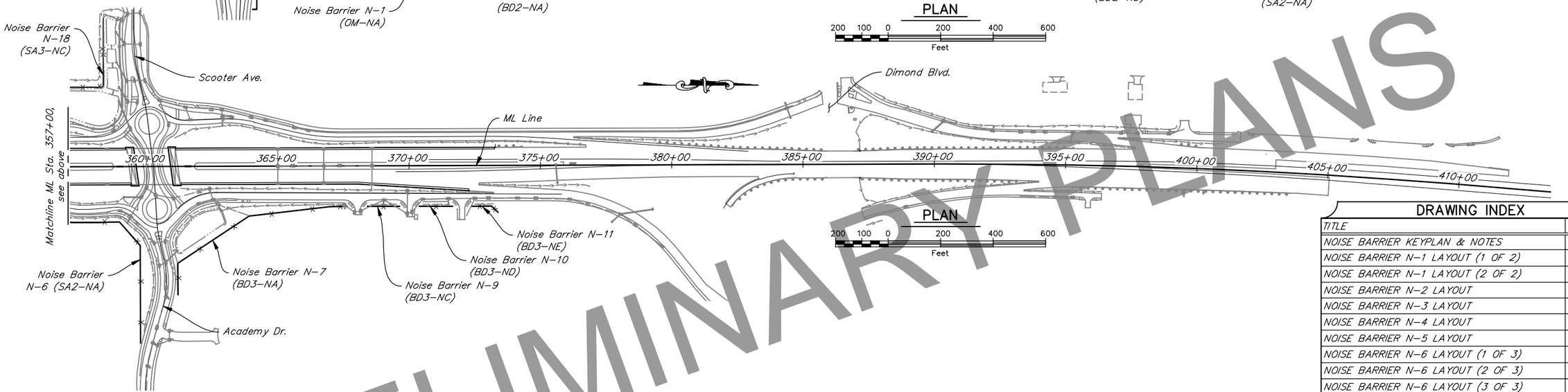
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M201	M230



PLAN

200 100 0 200 400 600

Feet



PLAN

200 100 0 200 400 600

Feet

NOISE BARRIER GENERAL NOTES

DESIGN: ..... AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017, with the latest interim specifications.

WIND LOAD: ..... Service I Limit State: 15 psf
Service III Limit State: 51 psf

STRUCTURAL TIMBER: ..... Treated Douglas Fir, No. 1, Fbo = 1,200 psi, Fvo = 170 psi
All metal hardware shall be galvanized or stainless steel.

STRUCTURAL STEEL PILING: ..... ASTM A709, Gr50, fy = 50,000 psi. Galvanize in accordance with AASHTO M111.

All Piles shall have pile points. Pile points shall be as follows or an approved equal:

APF	ICE	VERSA STEEL	CONSTR SUPPLY
77600-B PAR-T SERIES	HPH-RB SERIES	VS-300N SERIES	HT-3300

STRUCTURAL STEEL: ..... ASTM A709, Gr50, fy = 50,000 psi. Galvanize in accordance with AASHTO M111.

HIGH STRENGTH BOLTS: ..... Galvanized ASTM F3125 Grade A325, fu = 120,000 psi.

STRUCTURAL BOLTS: ..... Galvanized ASTM A307, fu = 60,000 psi.

LEGEND

Retaining Wall (see Wall Sheets)

Noise Barrier (ID Number)
(Noise Barrier Control Line)

TH# Bore Hole Location
(with Hole #), see Note 4

Notes:
1. For Noise Barrier Details and Typical Sections, see Dwg. 226 thru 230.
2. For quantities, see Layout drawings.
3. For Retaining Walls, see Retaining Wall sheets.
4. For Bore Hole locations, see Layout sheets.

DRAWING INDEX

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012-NB-KP.dwg Apr 04,2022 - 2:18pm

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
NOISE BARRIER KEYPLAN & NOTES

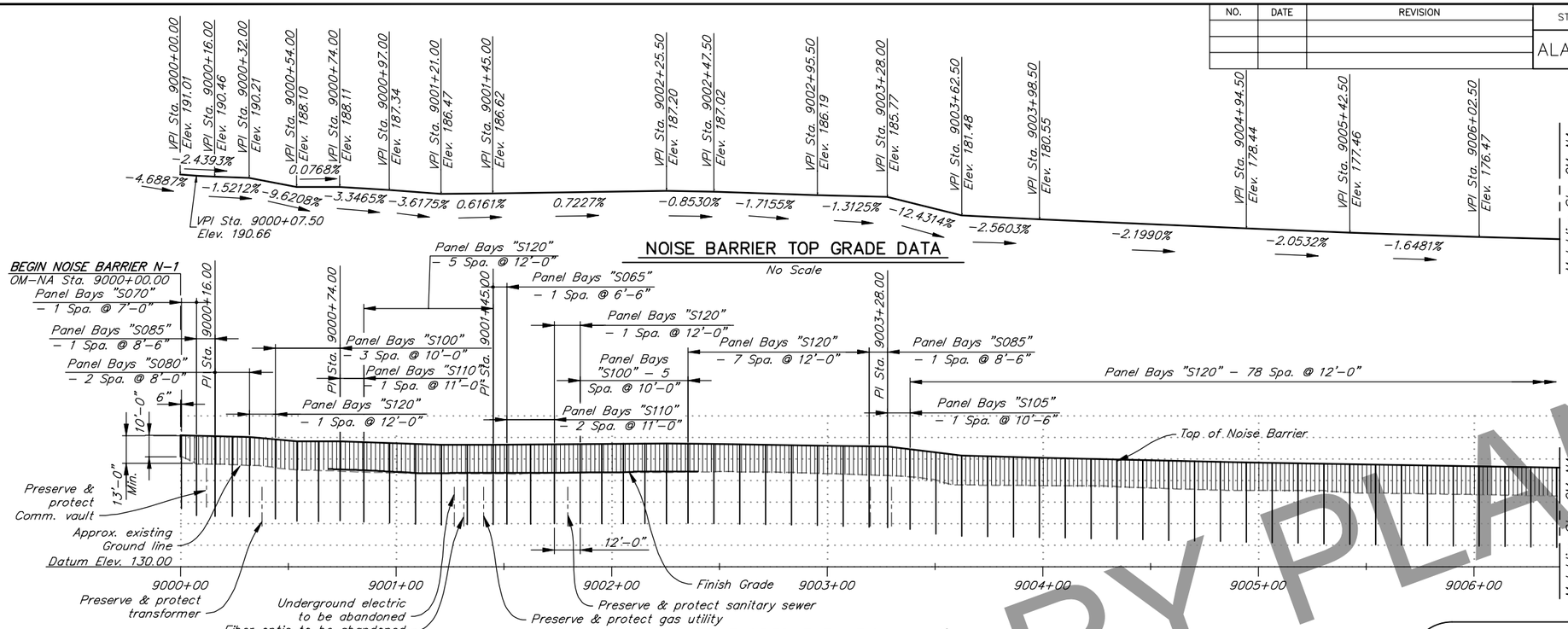
DWG. NO. 201

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M202	M230

NOISE BARRIER TOP GRADE DATA

No Scale



NOISE BARRIER N-1 PANEL SCHEDULE

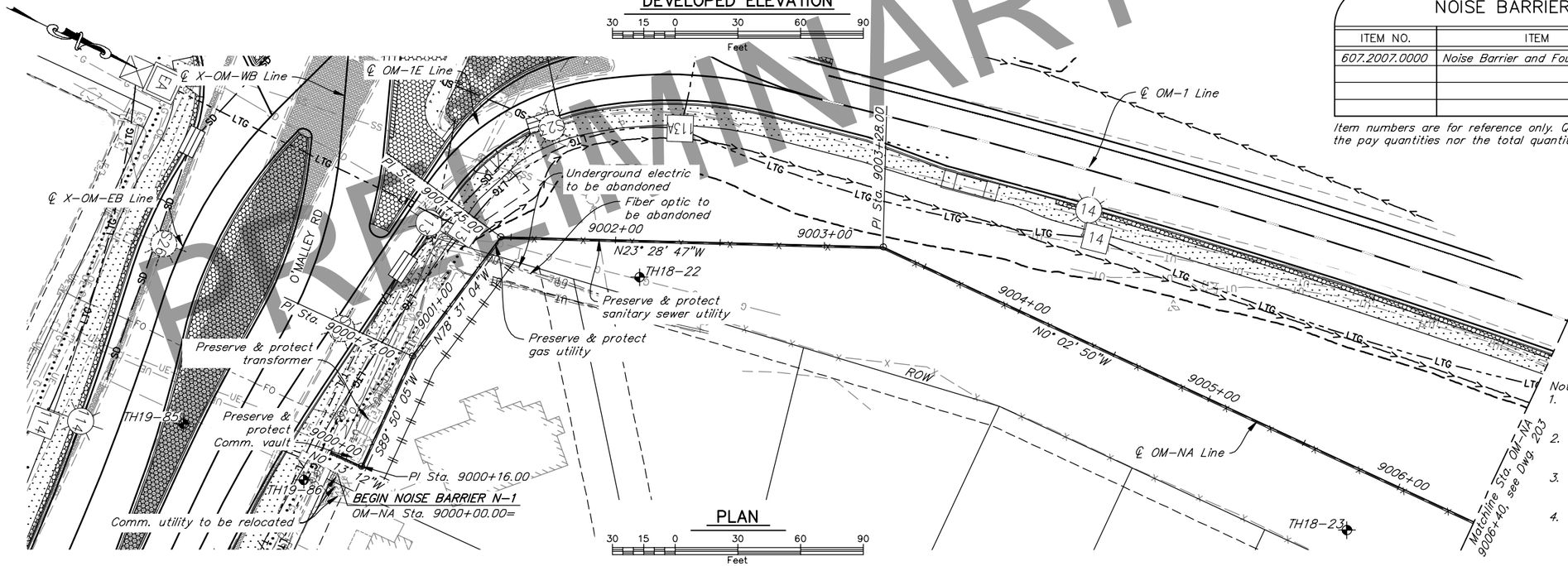
PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S065	6.5	6.25	1
S070	7	6.75	1
S080	8	7.75	2
S085	8.5	8.25	2
S100	10	9.75	8
S105	10.5	10.25	1
S110	11	10.75	4
S120	12	11.75	92

NOISE BARRIER N-1 PI STATION DATA

PI OM-NA STA.	NORTHING	EASTING
9000+00.00	305910.73	353898.25
9000+16.00	305926.72	353898.19
9000+74.00	305926.56	353840.19
9001+45.00	305940.69	353770.61
9003+28.00	306108.54	353697.70
9012+86.00	307066.54	353696.91

DEVELOPED ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-1 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	16,453

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. Locate utilities prior to constructing adjacent noise barrier foundations.
2. Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.
3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RAQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

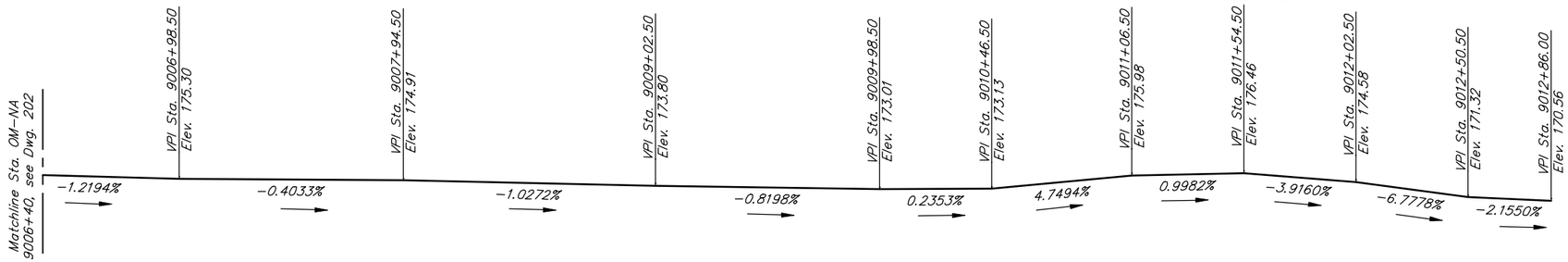
STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
NOISE BARRIER N-1 LAYOUT (1 OF 2)

DWG. NO. 202

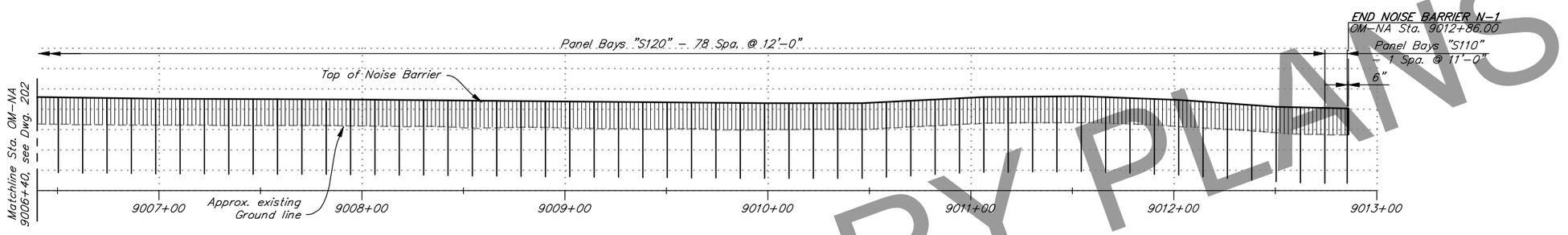
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M203	M230

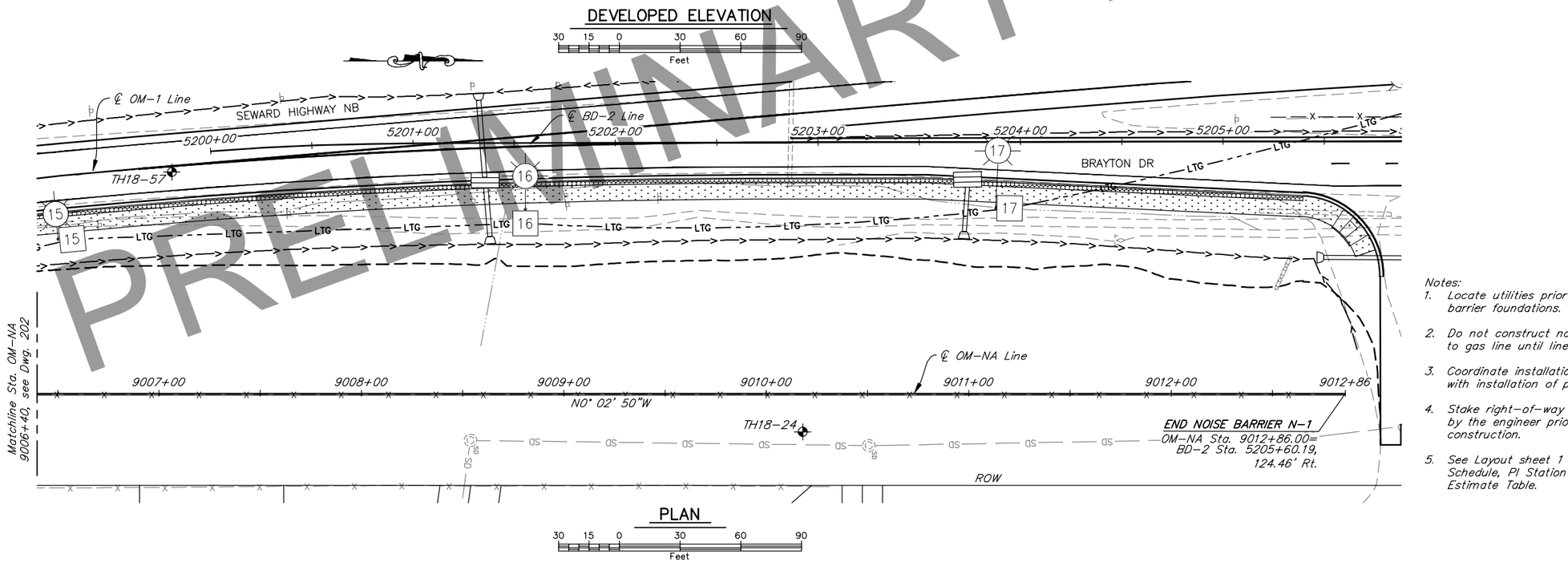


NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION



PLAN

30 15 0 30 60 90
Feet

Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*
5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, PI Station Data Table and Basis of Estimate Table.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RAQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

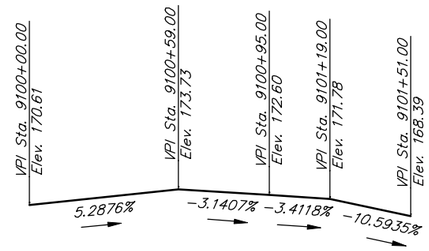
NOISE BARRIER N-1 LAYOUT (2 OF 2)

DWG. NO. 203

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

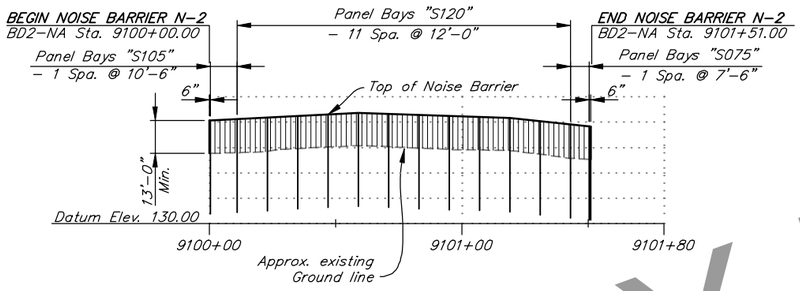
PW_429410 0012-OM-NA-02.dwg Apr 04,2022 - 2:42pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M204	M230



NOISE BARRIER TOP GRADE DATA

No Scale



NOISE BARRIER N-2 PANEL SCHEDULE

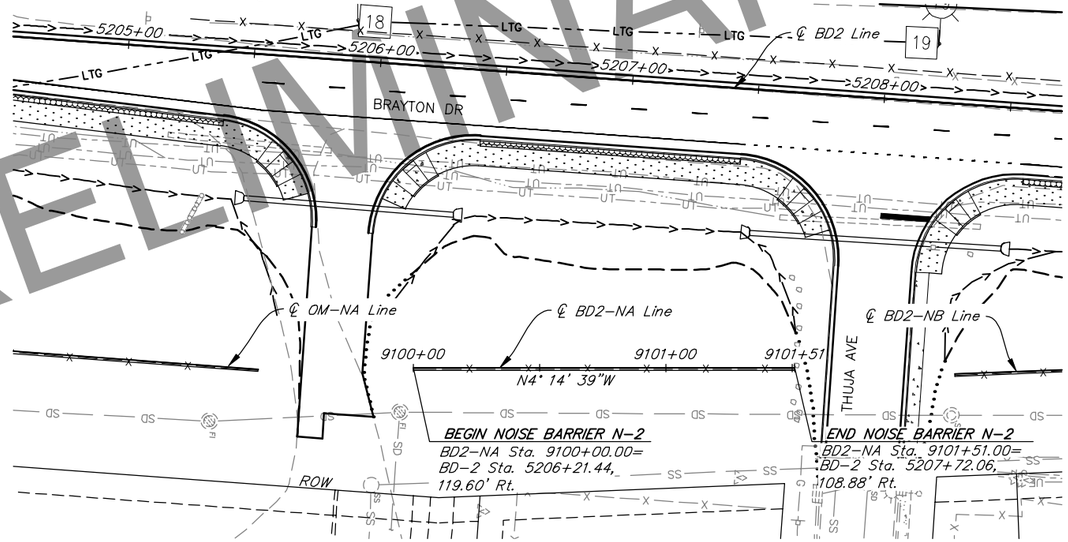
PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S075	7.5	7.25	1
S105	10.5	10.25	1
S120	12	11.75	11

NOISE BARRIER N-2 PI STATION DATA

PI BD2-NA STA.	NORTHING	EASTING
9100+00.00	307127.77	353691.86
9101+51.00	307278.35	353680.68

ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-2 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	1944

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

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4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RAQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY - O'MALLEY TO DIMOND

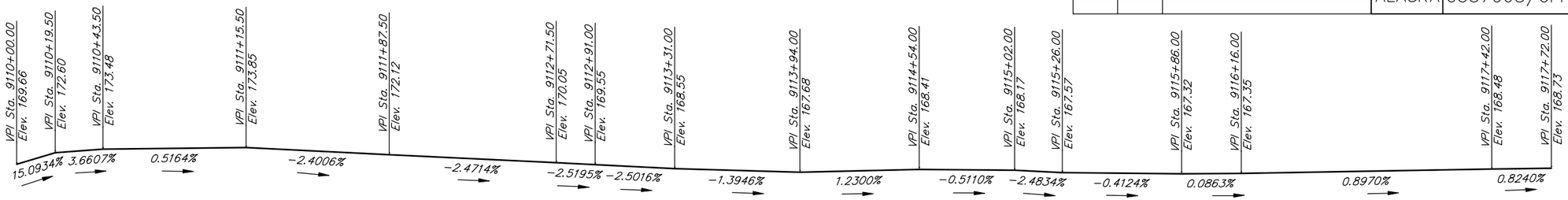
NOISE BARRIER N-2 LAYOUT

DWG. NO. 204

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

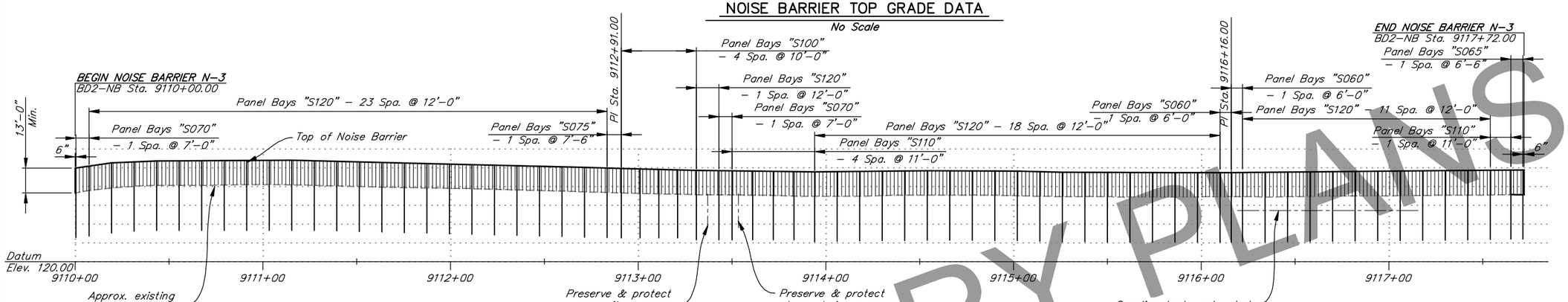
PW_429410 0012-BD2-NA.dwg Apr 04,2022 - 2:20pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M205	M230



NOISE BARRIER TOP GRADE DATA

No Scale



Notes:
1. Locate utilities prior to constructing adjacent noise barrier foundations.
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3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right−of−way and barrier lines for inspection by the engineer prior to beginning barrier construction.

NOISE BARRIER N−3 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6	5.75	2
S065	6.5	6.25	1
S070	7	6.75	2
S075	7.5	7.25	1
S100	10	9.75	4
S110	11	10.75	5
S120	12	11.75	53

DEVELOPED ELEVATION

30 15 0 30 60 90
Feet

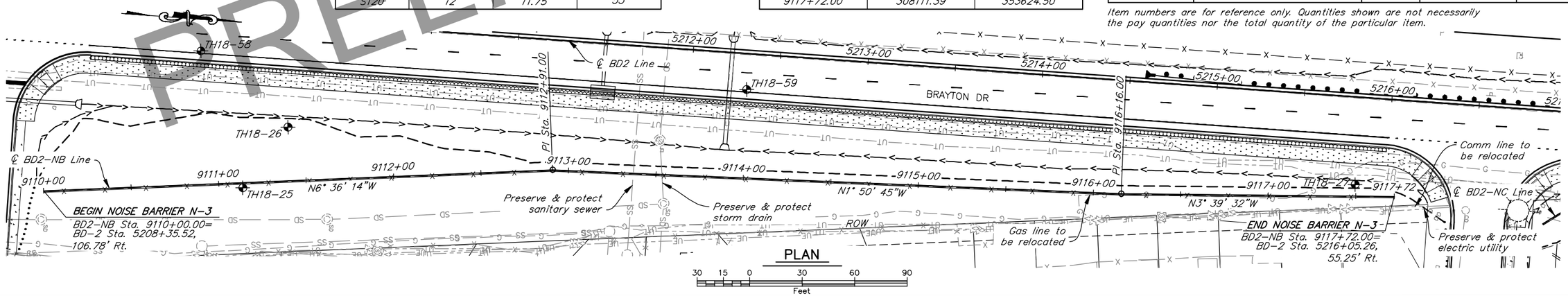
NOISE BARRIER N−3 PI STATION DATA

PI BD2−NB STA.	NORTHING	EASTING
9110+00.00	307341.81	353678.39
9112+91.00	307630.88	353644.92
9116+16.00	307955.71	353634.45
9117+72.00	308111.39	353624.50

NOISE BARRIER N−3 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	9848

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.



PLAN

30 15 0 30 60 90
Feet

PRELIMINARY PLANS

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY − O'MALLEY TO DIMOND
NOISE BARRIER N−3 LAYOUT

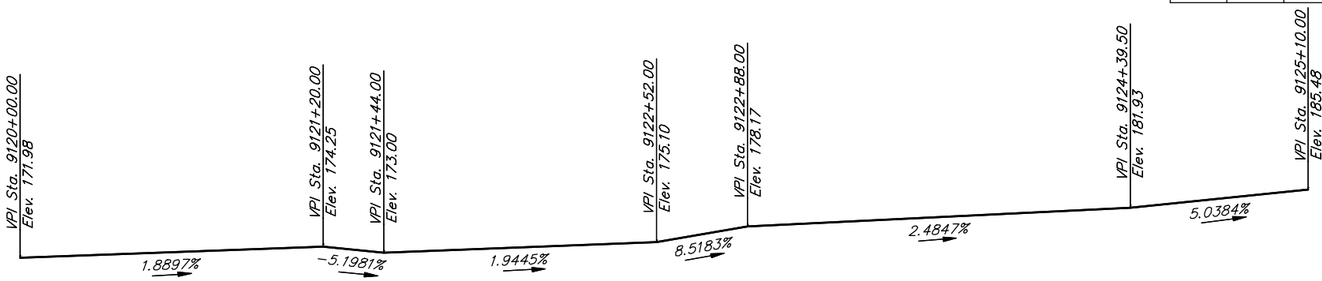
DWG. NO. 205

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762−1500
CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012−BD2−NB.dwg Apr 04,2022 − 2:21pm

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-BD2-NC.dwg Apr 04,2022 - 2:22pm

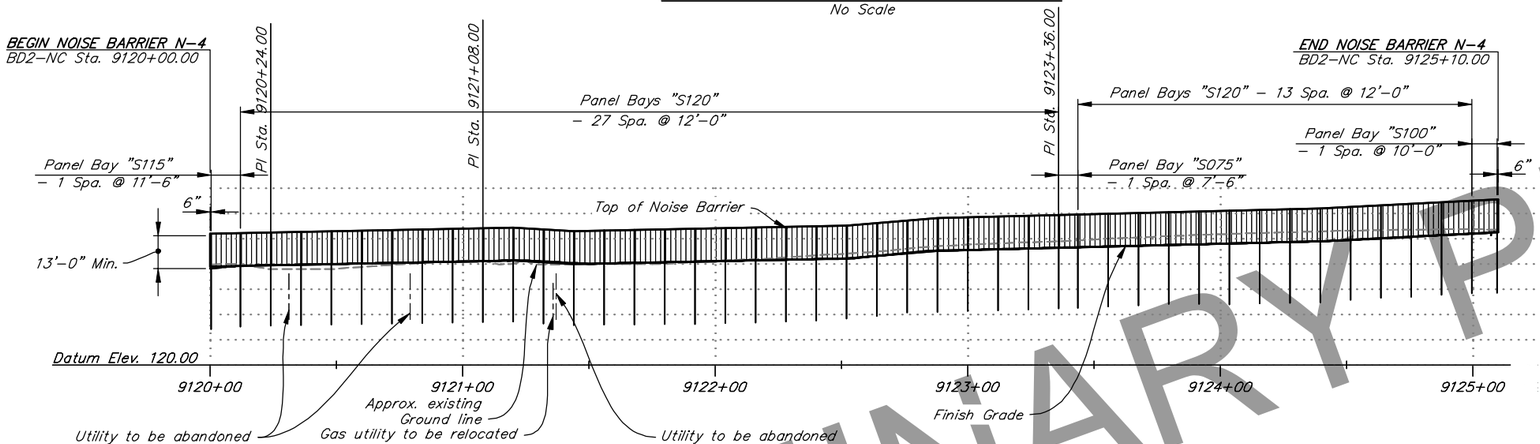
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M206	M230



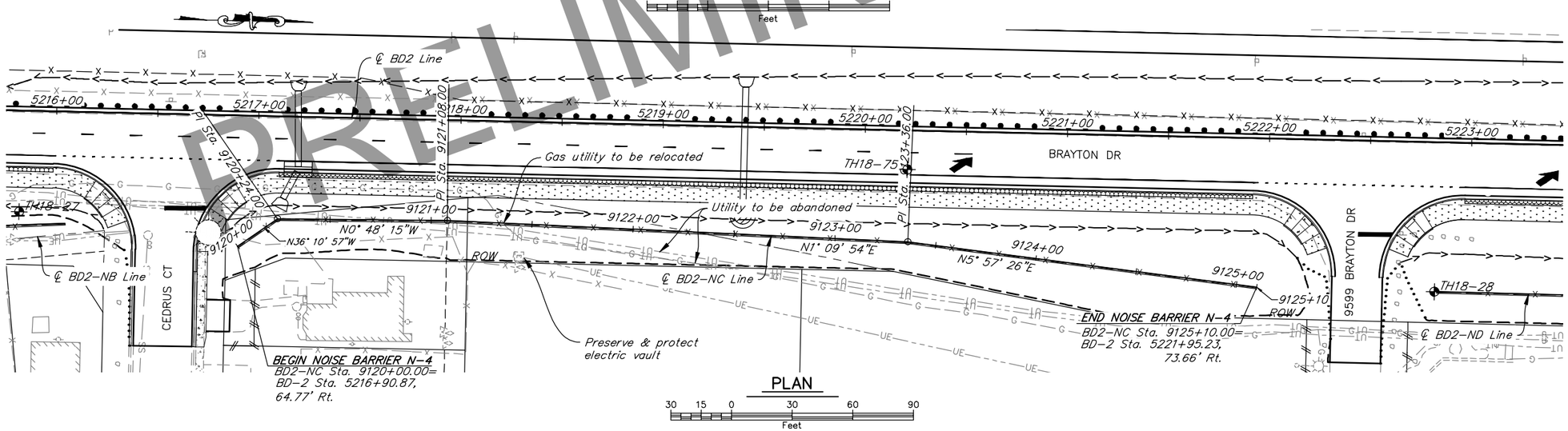
NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-4 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S075	7.5	7.25	1
S100	10	9.75	1
S115	11.5	11.25	1
S120	12	11.75	40

NOISE BARRIER N-4 PI STATION DATA

PI BD2-NC STA.	NORTHING	EASTING
9120+00.00	308197.03	353633.76
9121+24.00	308216.40	353619.59
9121+08.00	308300.39	353618.41
9123+36.00	308528.35	353623.04
9125+10.00	308701.41	353641.10

NOISE BARRIER N-4 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	6503

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
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3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RAQUEL MCCAIN

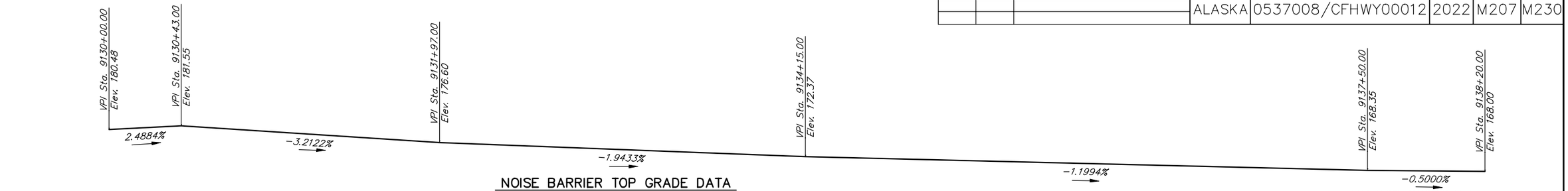
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
NOISE BARRIER N-4 LAYOUT

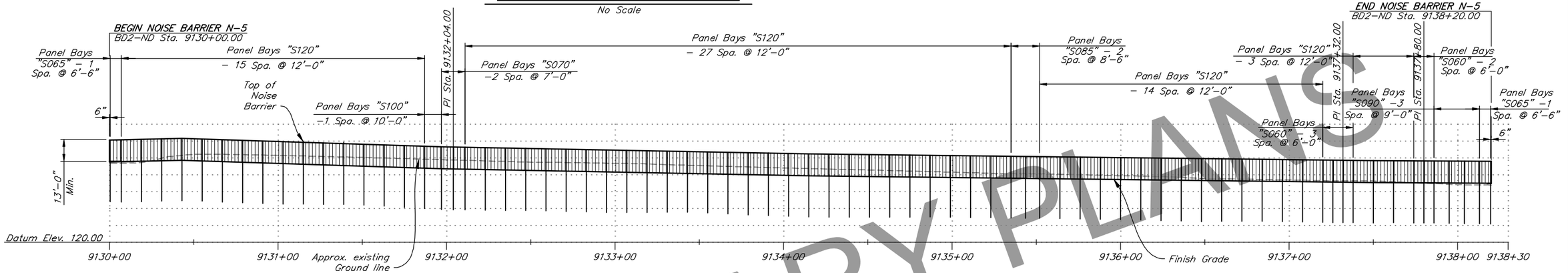
DWG. NO. 206

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M207	M230



NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet

NOISE BARRIER N-5 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6.0	5.75	5
S065	6.5	6.25	2
S070	7.0	6.75	2
S085	8.5	8.25	2
S090	9.0	8.75	3
S100	10.0	9.75	1
S120	12.0	11.75	59

NOISE BARRIER N-5 PI STATION DATA

PI BD2-ND STA.	NORTHING	EASTING
9130+00.00	308790.53	353641.01
9132+04.00	308994.53	353640.77
9137+32.00	309521.95	353615.69
9137+80.00	309569.95	353615.69
9138+20.00	309609.90	353613.81

NOISE BARRIER N-5 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	10,455

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

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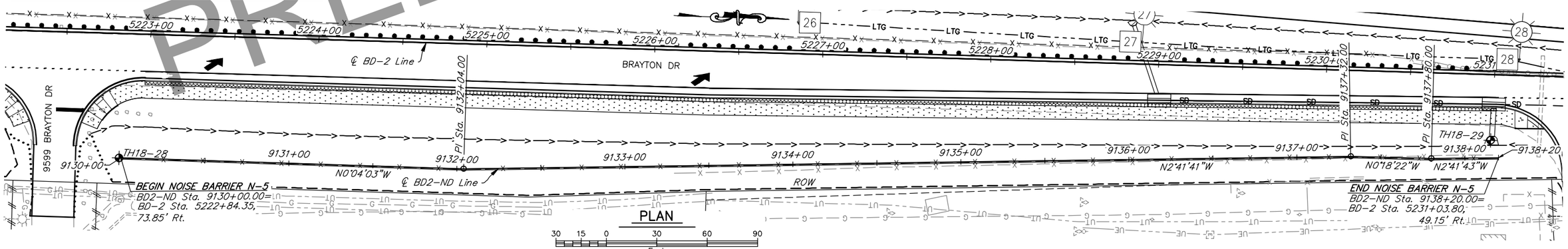
4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*



PLAN

30 15 0 30 60 90
Feet

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N-5 LAYOUT

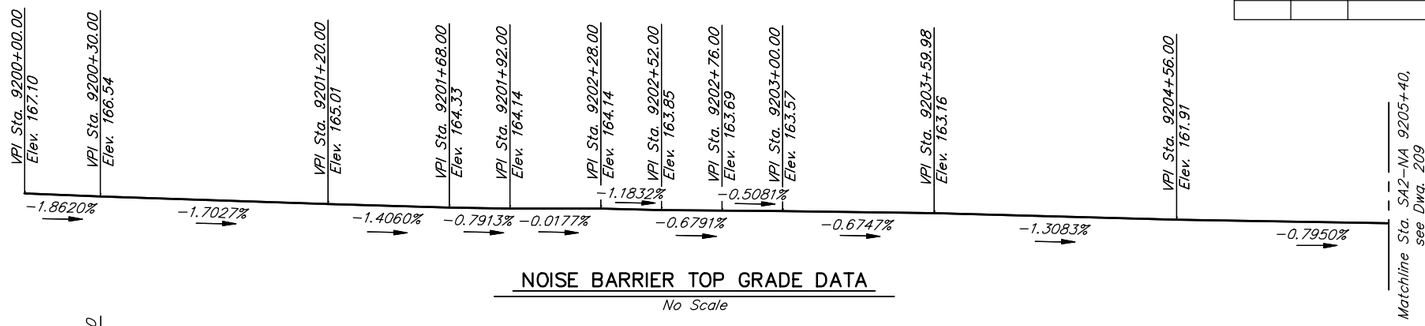
DWG. NO. 207

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012-BD2-ND.dwg Apr 04,2022 - 2:23pm

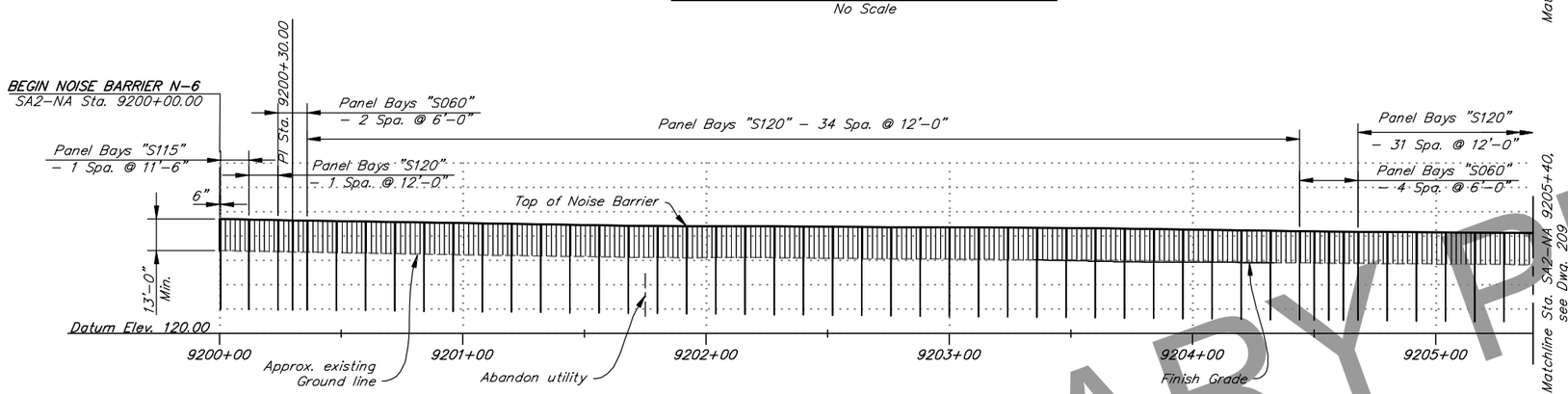
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M208	M230



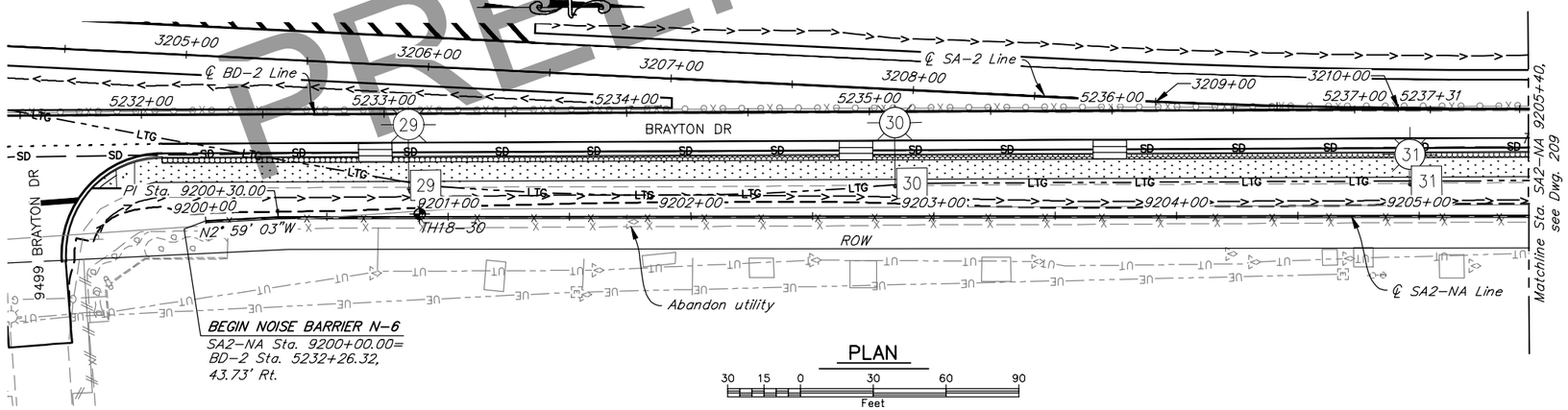
NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N−6 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6	5.75	13
S065	6.5	6.25	4
S070	7	6.75	2
S080	8	7.75	7
S085	8.5	8.25	1
S090	9	8.75	7
S105	10.5	10.25	2
S110	11	10.75	1
S115	11.5	11.25	1
S120	12	11.75	125

NOISE BARRIER N−6 PI STATION DATA

PI SA2−NA STA.	NORTHING	EASTING
9200+00.00	309732.41	353608.02
9200+30.00	309762.37	353606.45
9208+83.00	310615.37	353606.56
9211+14.00	310839.25	353663.47
9212+25.00	310950.25	353663.52
9212+73.00	310998.20	353661.55
9212+98.00	311023.21	353661.55
9214+18.00	311102.63	353751.50
9217+90.00	311103.72	354123.51

NOISE BARRIER N−6 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	22,873

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

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DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY − O'MALLEY TO DIMOND

NOISE BARRIER N−6 LAYOUT (1 OF 3)

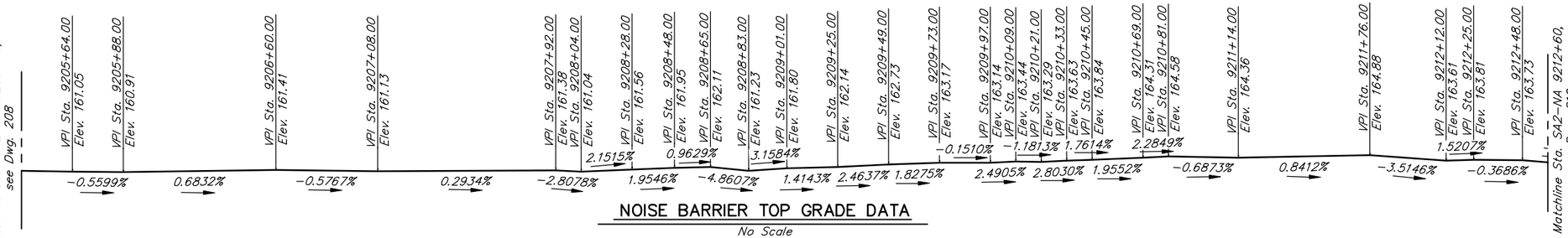
DWG. NO. 208

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762−1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012−SA2−NA−01.dwg Apr 04,2022 − 2:44pm

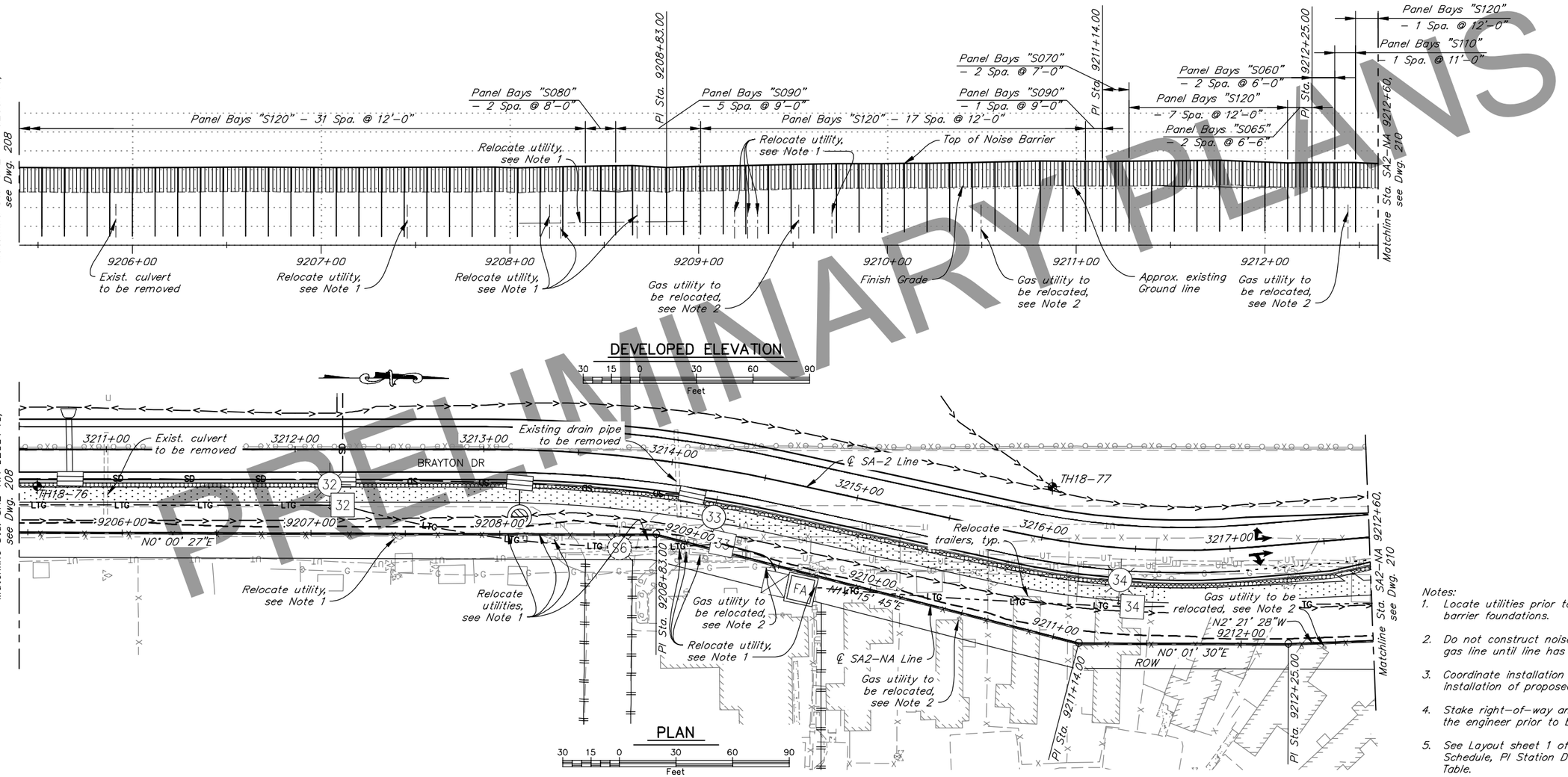
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M209	M230



NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet

PLAN

30 15 0 30 60 90
Feet

Notes:

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5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, Pl Station Data Table and Basis of Estimate Table.*

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MANZAR KHOSHNEVISSAN
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY − O'MALLEY TO DIMOND

NOISE BARRIER N−6 LAYOUT (2 OF 3)

DWG. NO. 209

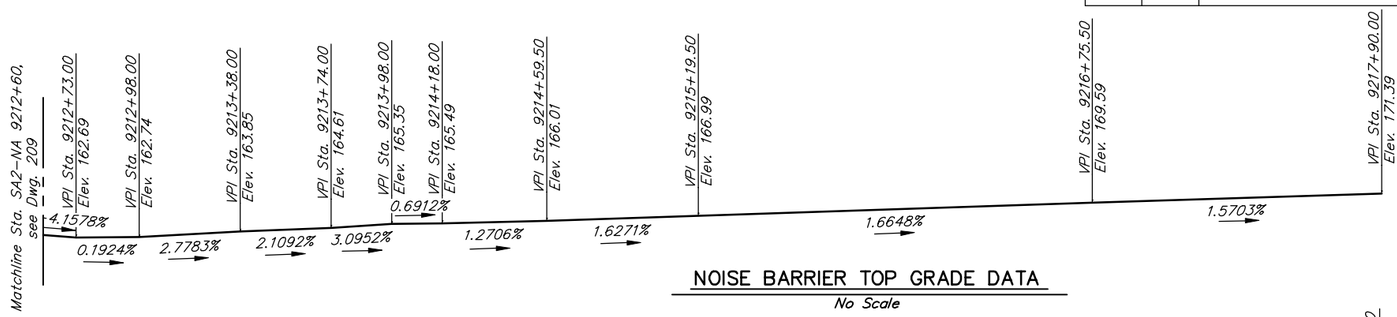
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762−1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012−SA2−NA−02.dwg Apr 04,2022 − 2:45pm

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-SA2-NA-03.dwg Apr 04,2022 - 2:46pm

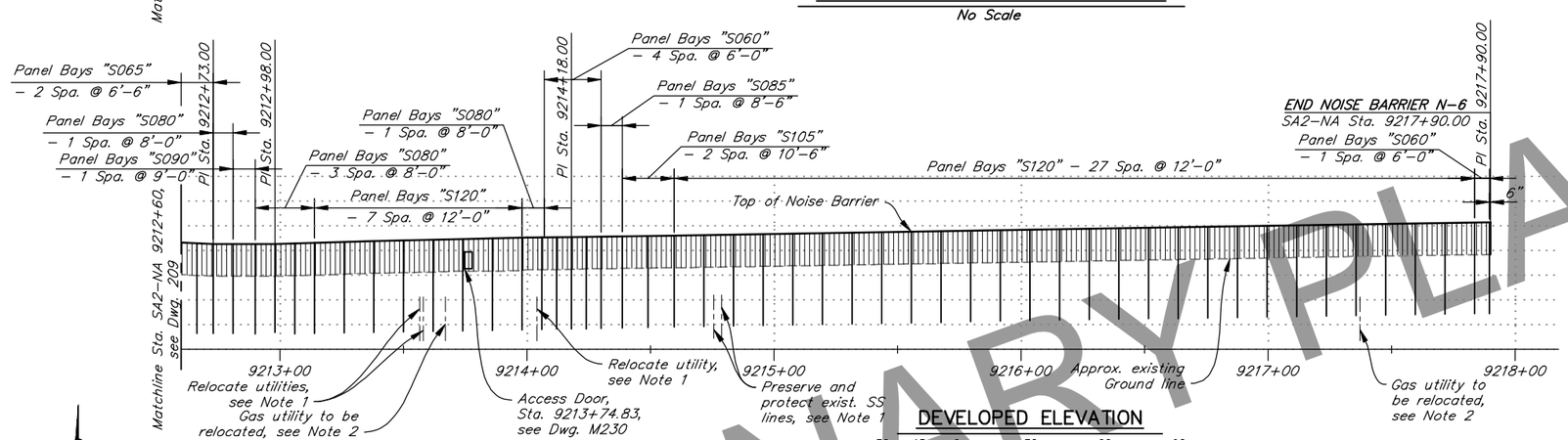
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M210	M230



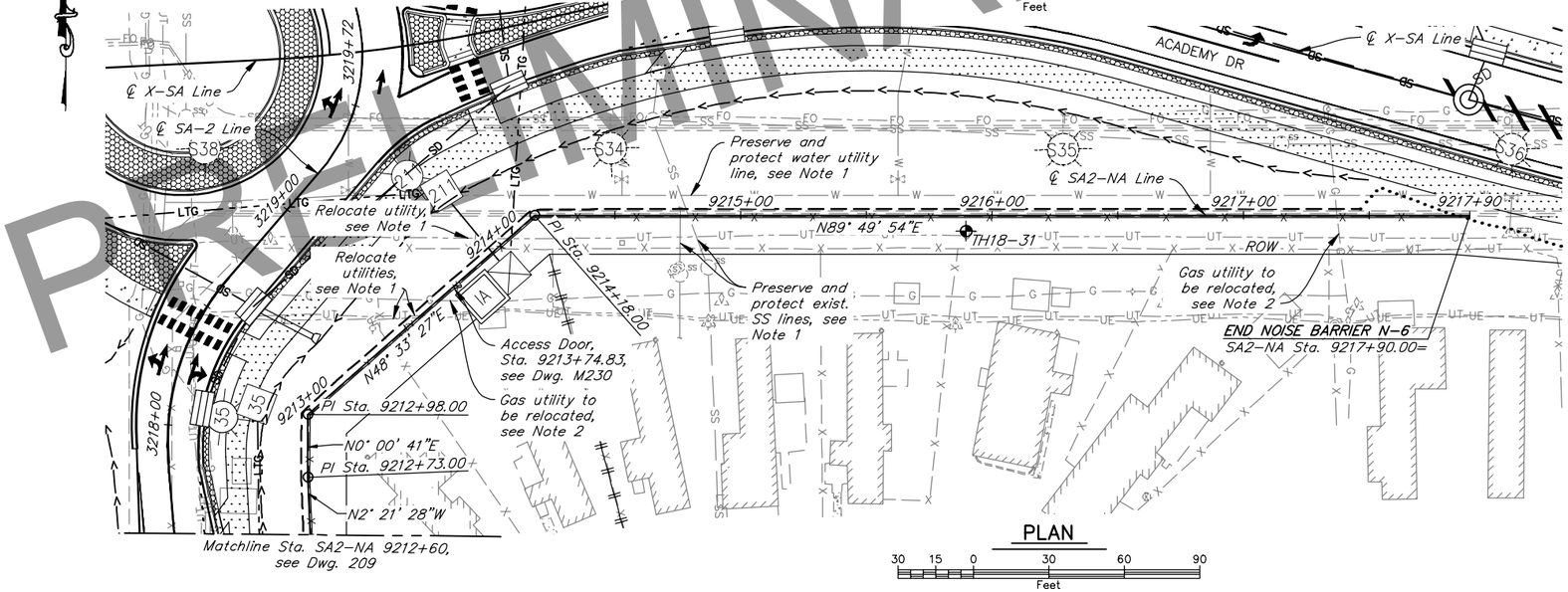
NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*
5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, PI Station Data Table and Basis of Estimate Table.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

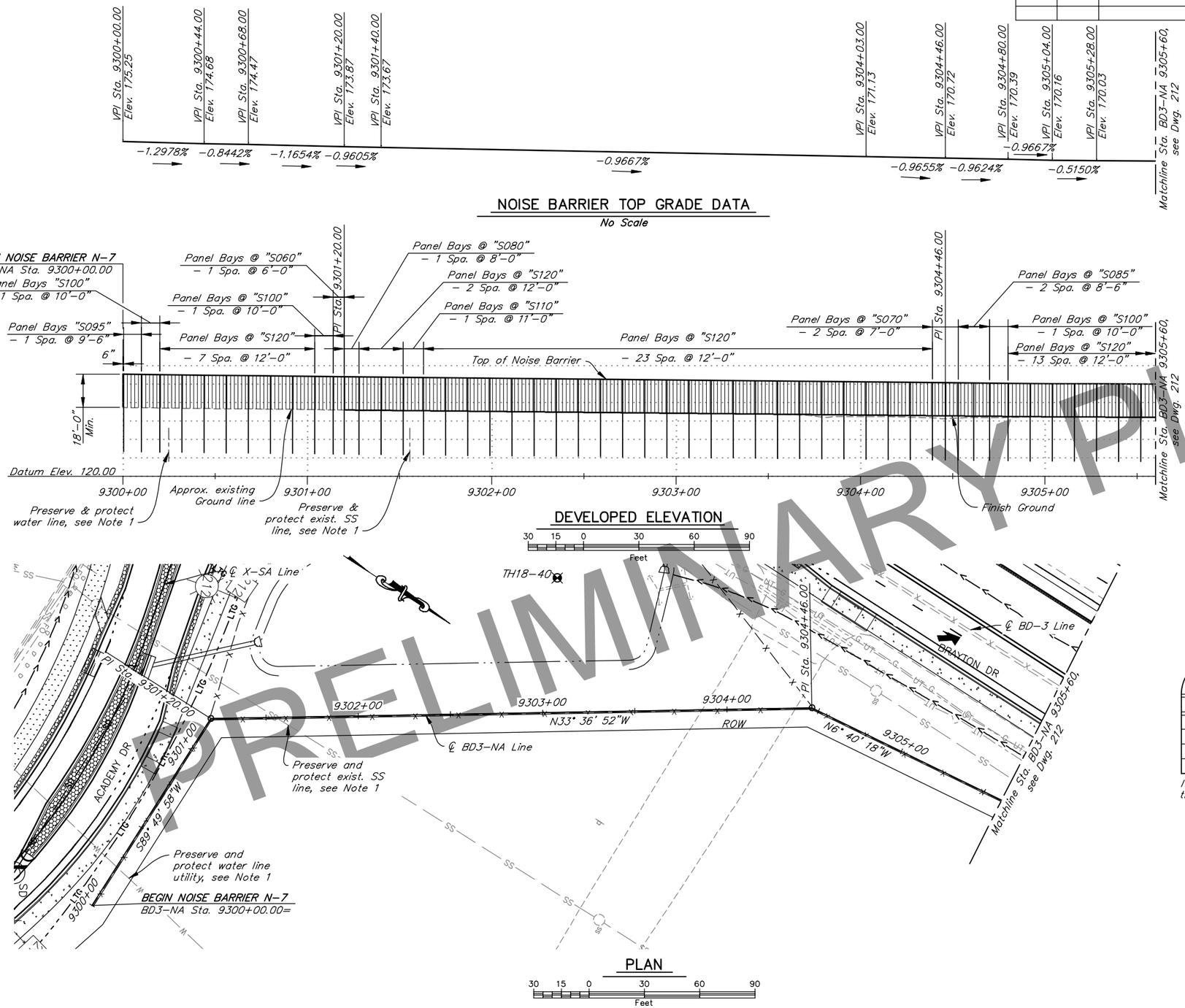
SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N-6 LAYOUT (3 OF 3)

DWG. NO. 210

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M211	M230



NOISE BARRIER N-7 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6	5.75	1
S070	7	6.75	2
S080	8	7.75	4
S085	8.5	8.25	2
S095	9.5	9.25	2
S100	10	9.75	5
S110	11	10.75	1
S120	12	11.75	56

NOISE BARRIER N-7 PI STATION DATA

PI BD3-NA STA.	NORTHING	EASTING
9300+00.00	311245.35	353939.02
9301+20.00	311245.00	353819.02
9304+46.00	311516.49	353638.55
9307+56.00	311824.39	353602.53
9308+22.00	311890.39	353602.37

NOISE BARRIER N-7 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	14,591

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. Locate utilities prior to constructing adjacent noise barrier foundations.
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3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
MELISSA MONCADA	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

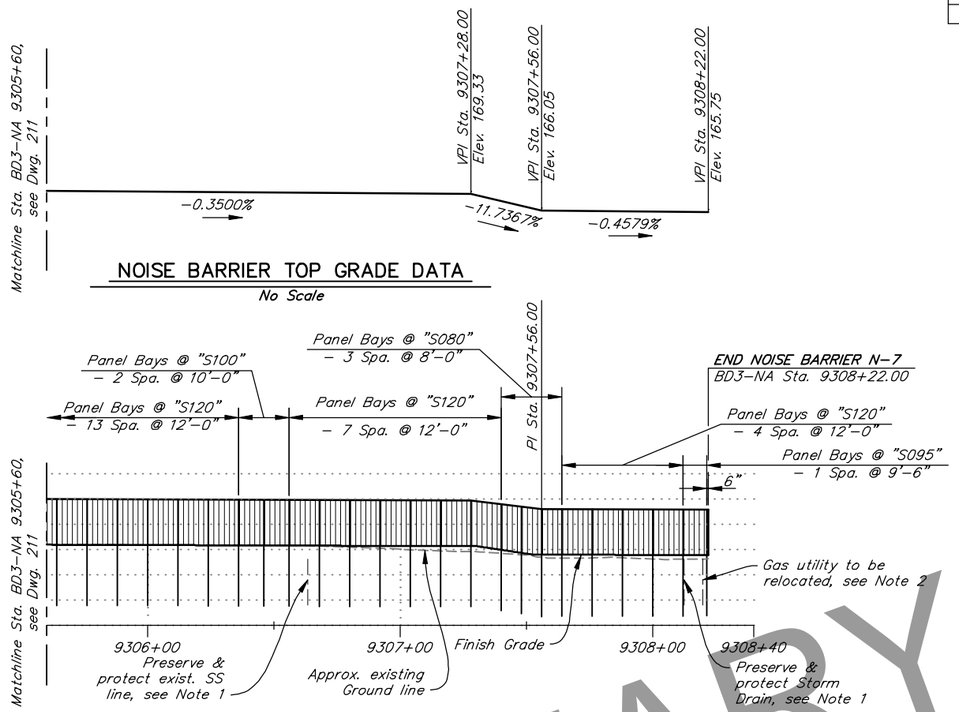
STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
NOISE BARRIER N-7 LAYOUT (1 OF 2)

DWG. NO. 211

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-BD3-NA-01.dwg Apr 04,2022 - 2:24pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M212	M230



PRELIMINARY PLANS

Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*
5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, PI Station Data Table and Basis of Estimate Table.*

DESIGNED BY: *MANZAR KHOSHNEVISSAN*	**CHECKED:** *MELISSA MONCADA*
DRAWN BY: *DARYL MONK*	**CHECKED:** *MELISSA MONCADA*
QUANTITIES BY: *DARYL MONK*	**CHECKED:** *RACQUEL MCCAIN*

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N-7 LAYOUT (2 OF 2)

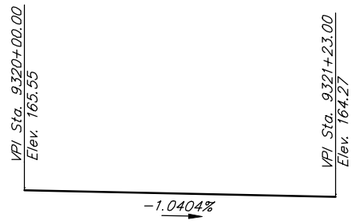
DWG. NO. 212

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012-BD3-NA-02.dwg Apr 04,2022 - 2:25pm

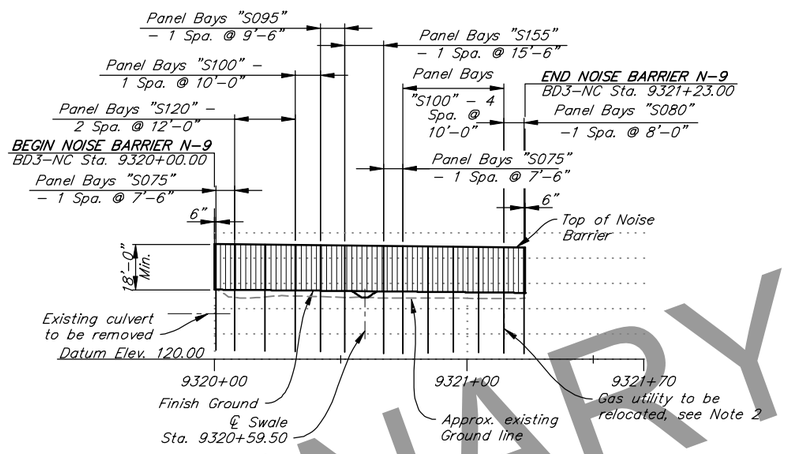
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M213	M230



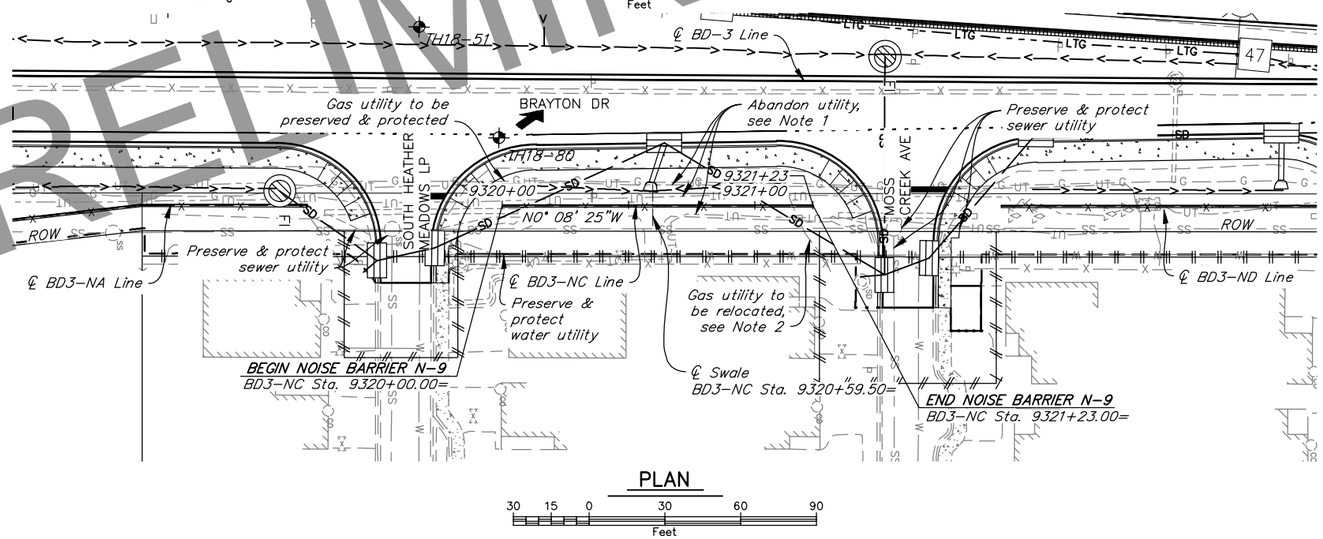
NOISE BARRIER TOP GRADE DATA

No Scale



ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-9 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S075	7.5	7.25	2
S080	8	7.75	1
S095	9.5	9.25	1
S100	10	9.75	5
S120	12	11.75	2
S155	15.5	15.25	1

NOISE BARRIER N-9 PI STATION DATA

PI BD3-NC STA.	NORTHING	EASTING
9320+00.00	311967.51	353602.18
9321+23.00	312090.51	353601.88

NOISE BARRIER N-9 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	2182

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

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2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N-9 LAYOUT

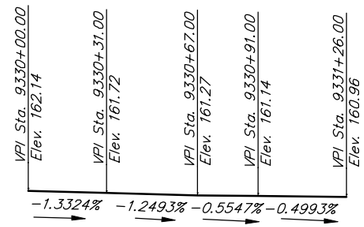
DWG. NO. 213

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012-BD3-ND.dwg Apr 04,2022 - 2:28pm

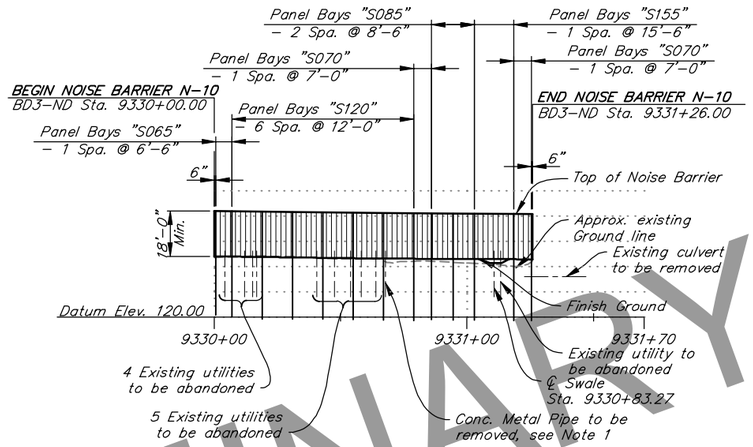
NO.	DATE	REVISION

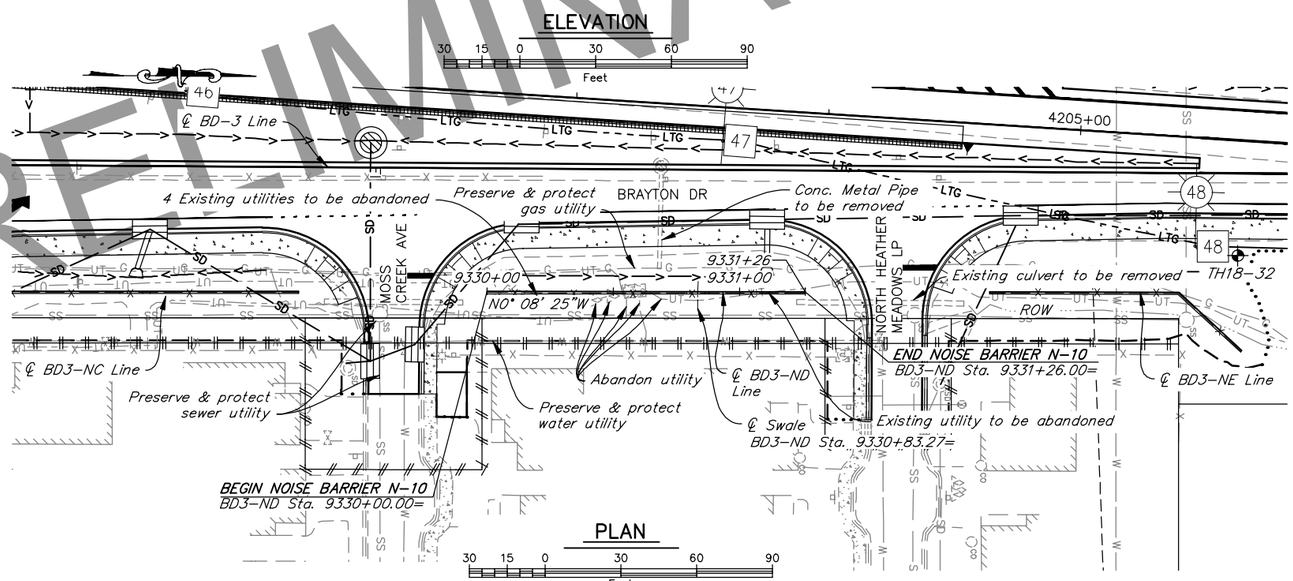
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M214	M230



NOISE BARRIER TOP GRADE DATA

No Scale





NOISE BARRIER N-10 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S065	6.5	6.25	1
S070	7	6.75	2
S085	8.5	8.25	2
S120	12	11.75	6
S155	15.5	15.25	1

NOISE BARRIER N-10 PI STATION DATA

PI BD3-ND STA.	NORTHING	EASTING
9330+00.00	312165.09	353601.70
9331+26.00	312291.09	353601.39

NOISE BARRIER N-10 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	2237

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

1. Locate utilities prior to constructing adjacent noise barrier foundations.
2. Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.
3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY - O'MALLEY TO DIMOND

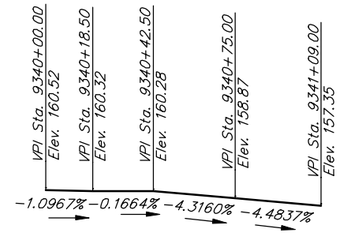
NOISE BARRIER N-10 LAYOUT

DWG. NO. 214

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 0012-BD3-NE.dwg Apr 04,2022 - 2:30pm

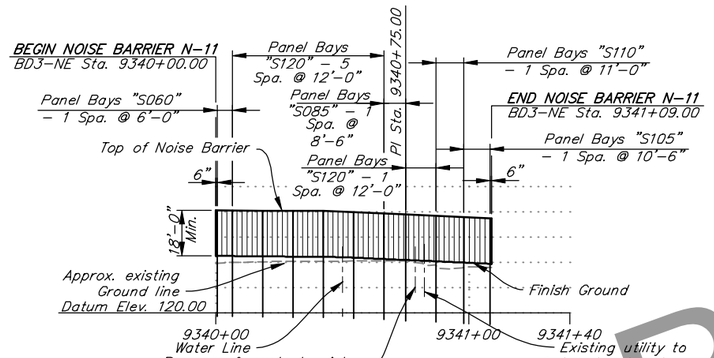
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M215	M230



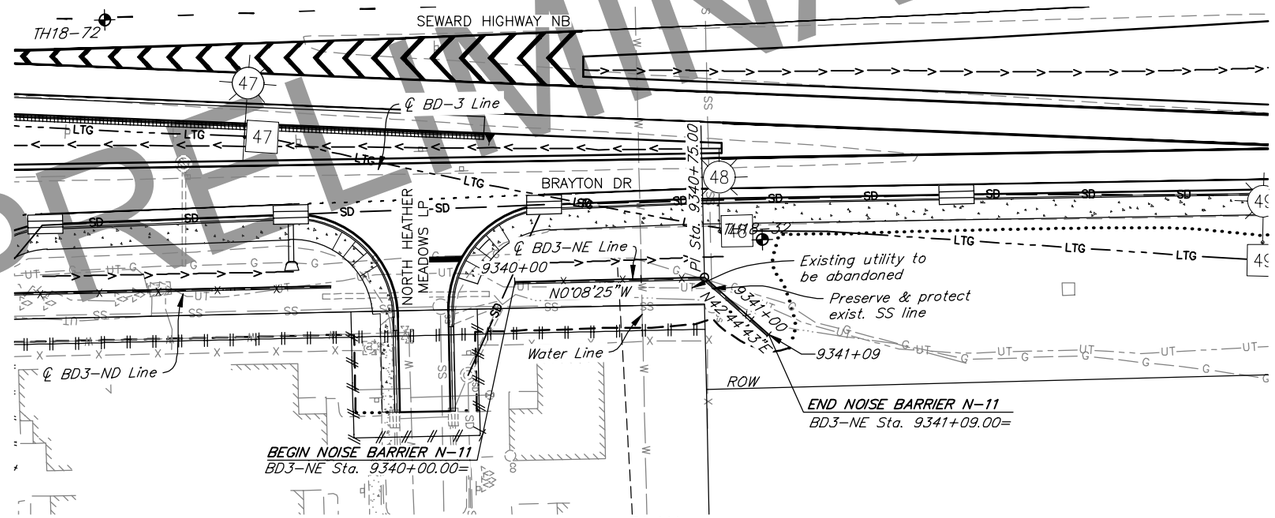
NOISE BARRIER TOP GRADE DATA

No Scale



ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-11 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6.0	5.75	1
S085	8.5	8.25	1
S105	10.5	10.25	1
S110	11.0	10.75	1
S120	12.0	11.75	6

NOISE BARRIER N-11 PI STATION DATA

PI BD3-NE STA.	NORTHING	EASTING
9340+00.00	312364.05	353601.21
9340+75.00	312439.05	353601.02
9341+09.00	312464.02	353624.10

NOISE BARRIER N-11 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	1938

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

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2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
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4. *Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.*

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

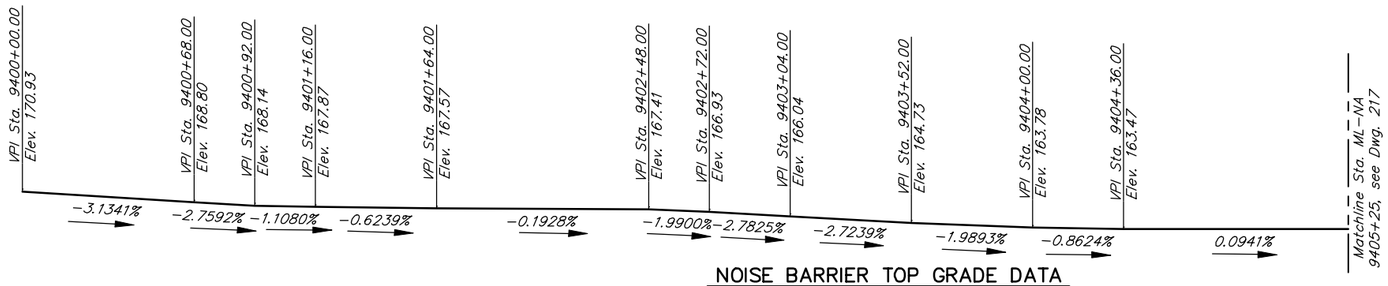
SEWARD HIGHWAY - O'MALLEY TO DIMOND

NOISE BARRIER N-11 LAYOUT

DWG. NO. 215

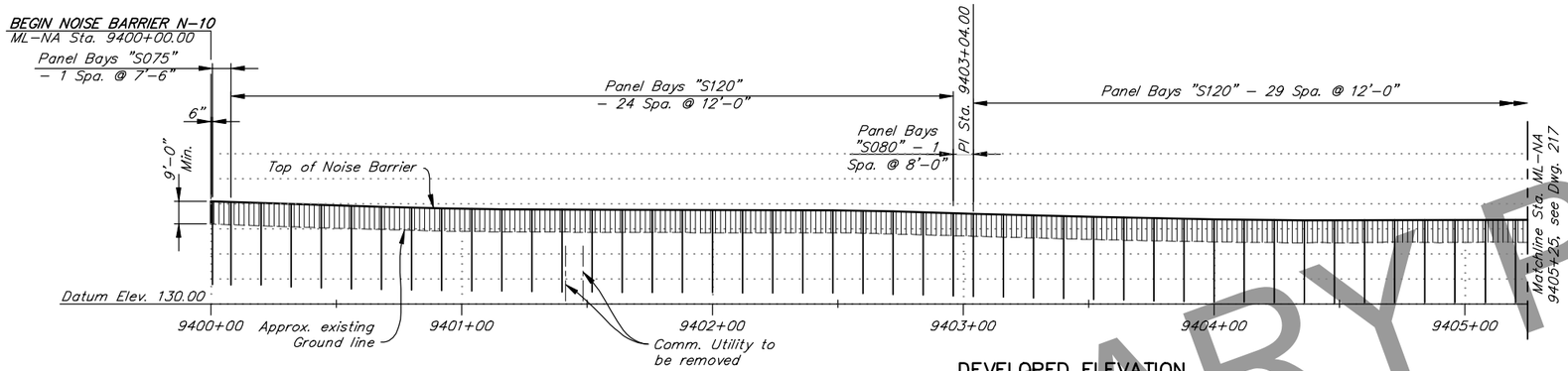
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M216	M230



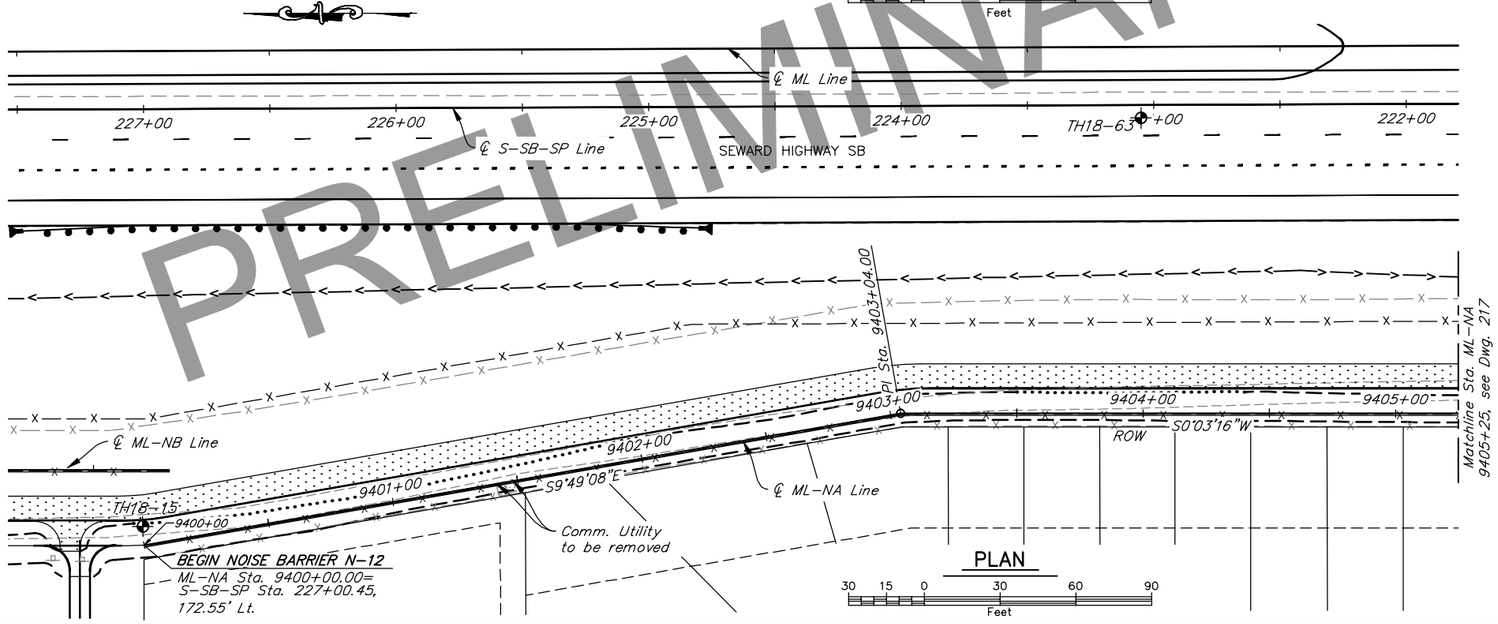
NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N–12 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S075	7.5	7.25	3
S080	8.0	7.75	5
S085	8.5	8.25	1
S100	10.0	9.75	2
S110	11.0	10.75	1
S120	12.0	11.75	125

NOISE BARRIER N–12 PI STATION DATA

PI ML–NA STA.	NORTHING	EASTING
9400+00.00	308625.50	353262.12
9403+04.00	308325.95	353313.97
9406+63.00	307966.96	353313.63
9416+03.00	307030.95	353227.11

NOISE BARRIER N–12 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	14,043

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

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3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right–of–way and barrier lines for inspection by the engineer prior to beginning barrier construction.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
DARYL PROFESSIONAL ENG.

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N–12 LAYOUT (1 OF 3)

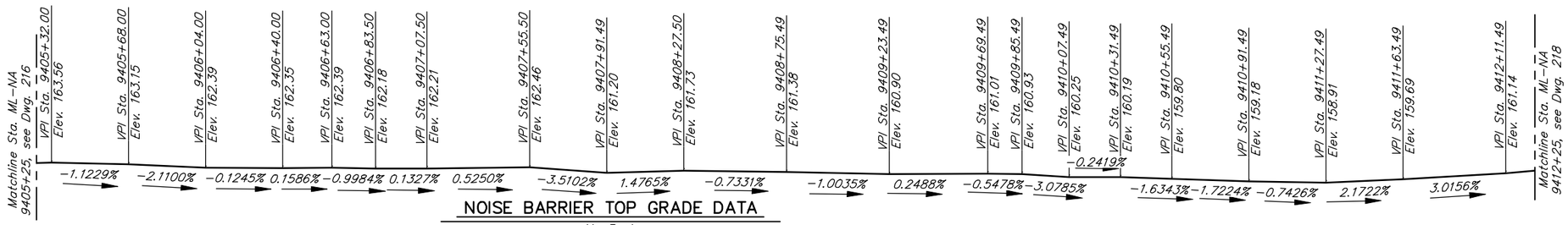
DWG. NO. 216

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762–1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012–ML–NA–01.dwg Apr 04,2022 – 2:31pm

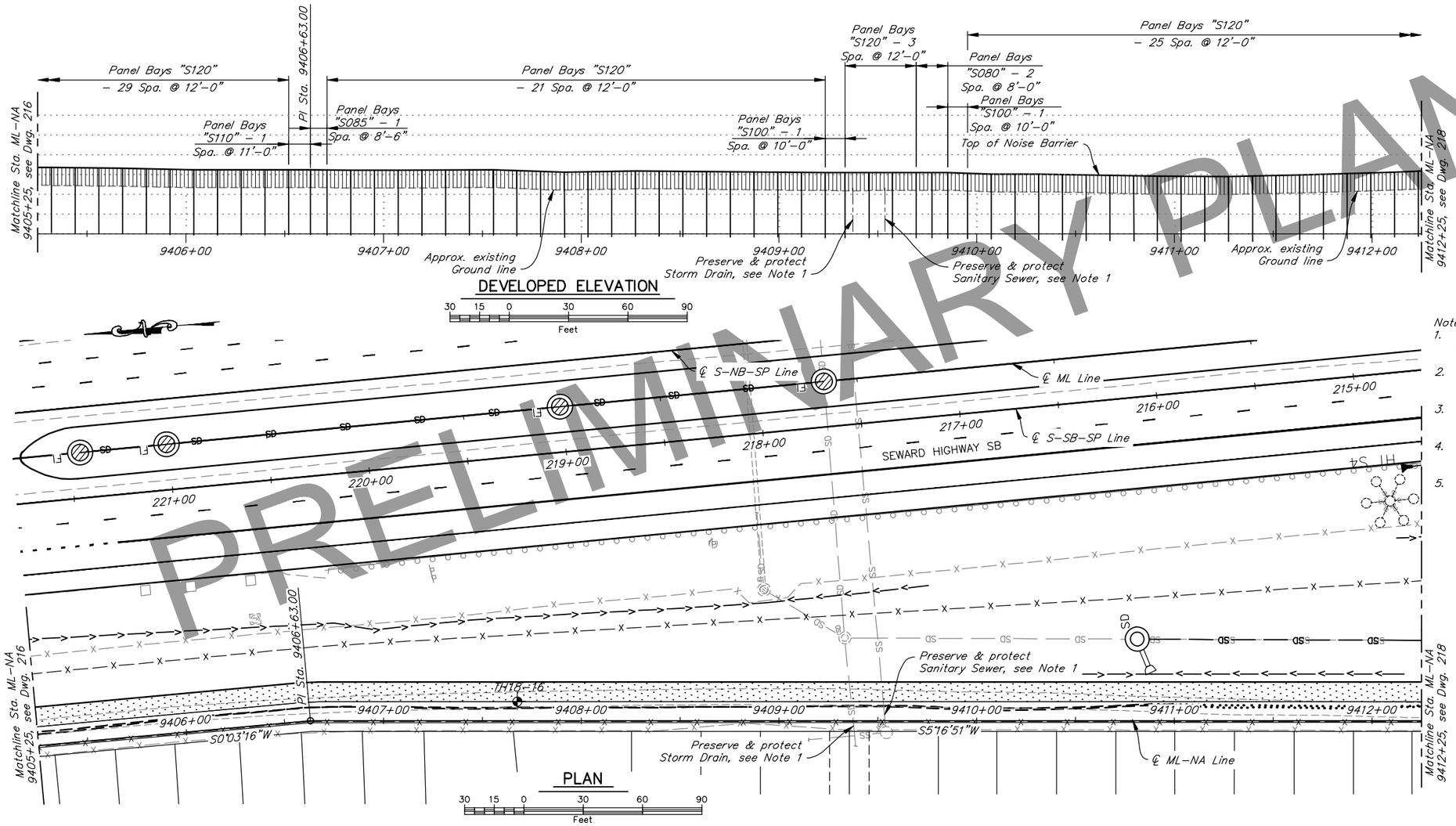
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M217	M230



NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION

30 15 0 30 60 90
Feet

PLAN

30 15 0 30 60 90
Feet

Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
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5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, PI Station Data Table and Basis of Estimate Table.*

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

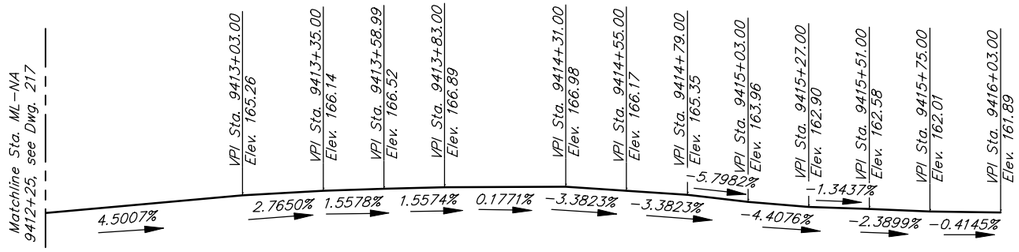
NOISE BARRIER N–12 LAYOUT (2 OF 3)

DWG. NO. 217

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762–1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012–ML–NA–02.dwg Apr 04,2022 – 2:33pm

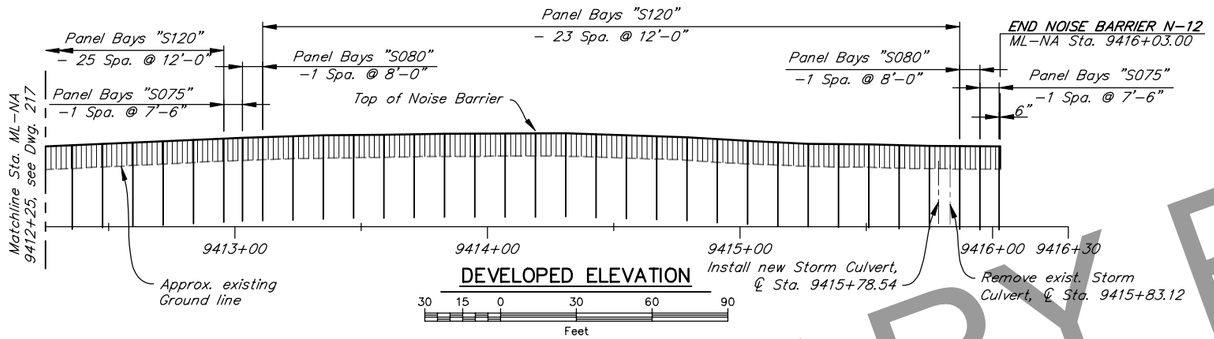
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-ML-NA-03.dwg Apr 06,2022 - 8:31am

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M218	M230



NOISE BARRIER TOP GRADE DATA

No Scale



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5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, PI Station Data Table and Basis of Estimate Table.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

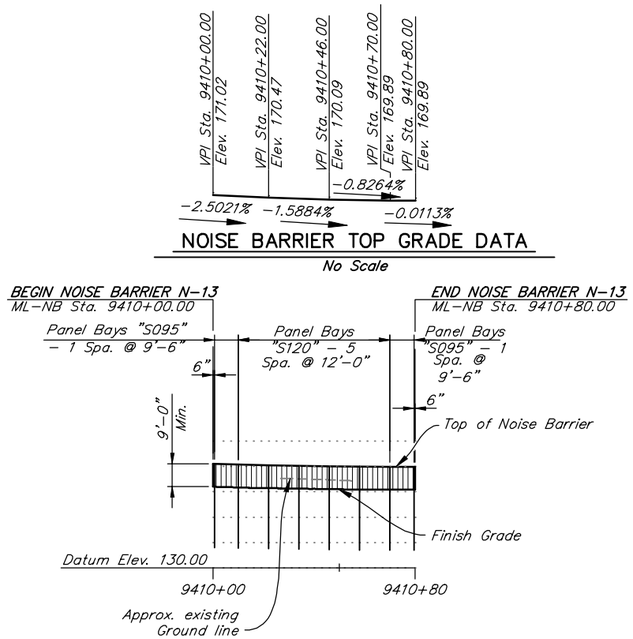
SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N-12 LAYOUT (3 OF 3)

DWG. NO. 218

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M219	M230



NOISE BARRIER N−13 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S095	9.5	9.25	2
S120	12	11.75	5

NOISE BARRIER N−13 PI STATION DATA

PI ML−NB STA.	NORTHING	EASTING
9410+00.00	308695.60	353291.96
9410+80.00	308615.60	353291.96

NOISE BARRIER N−13 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	702

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
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3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right−of−way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY − O'MALLEY TO DIMOND
NOISE BARRIER N−13 LAYOUT

DWG. NO. 219

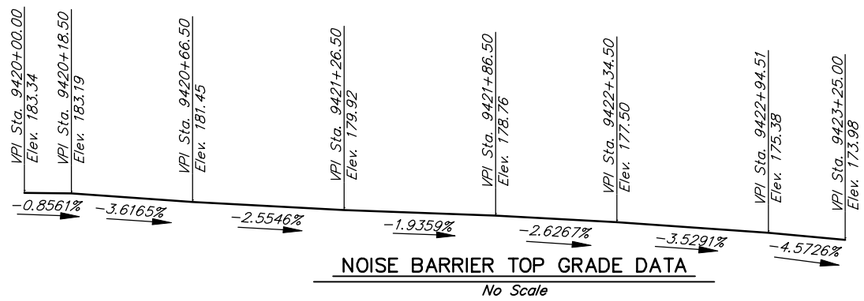
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762−1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012−ML−NB.dwg Apr 04,2022 − 2:36pm

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

PW_429410 00012-ML-NC.dwg Apr 04,2022 - 2:37pm

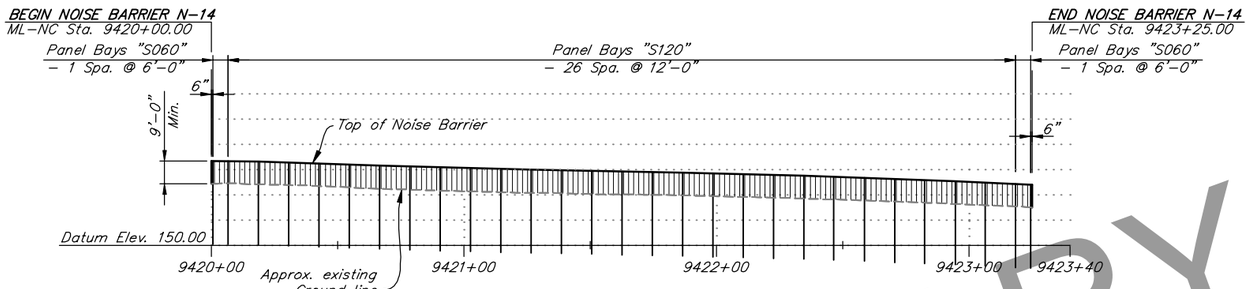
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M220	M230



NOISE BARRIER TOP GRADE DATA

No Scale



ELEVATION

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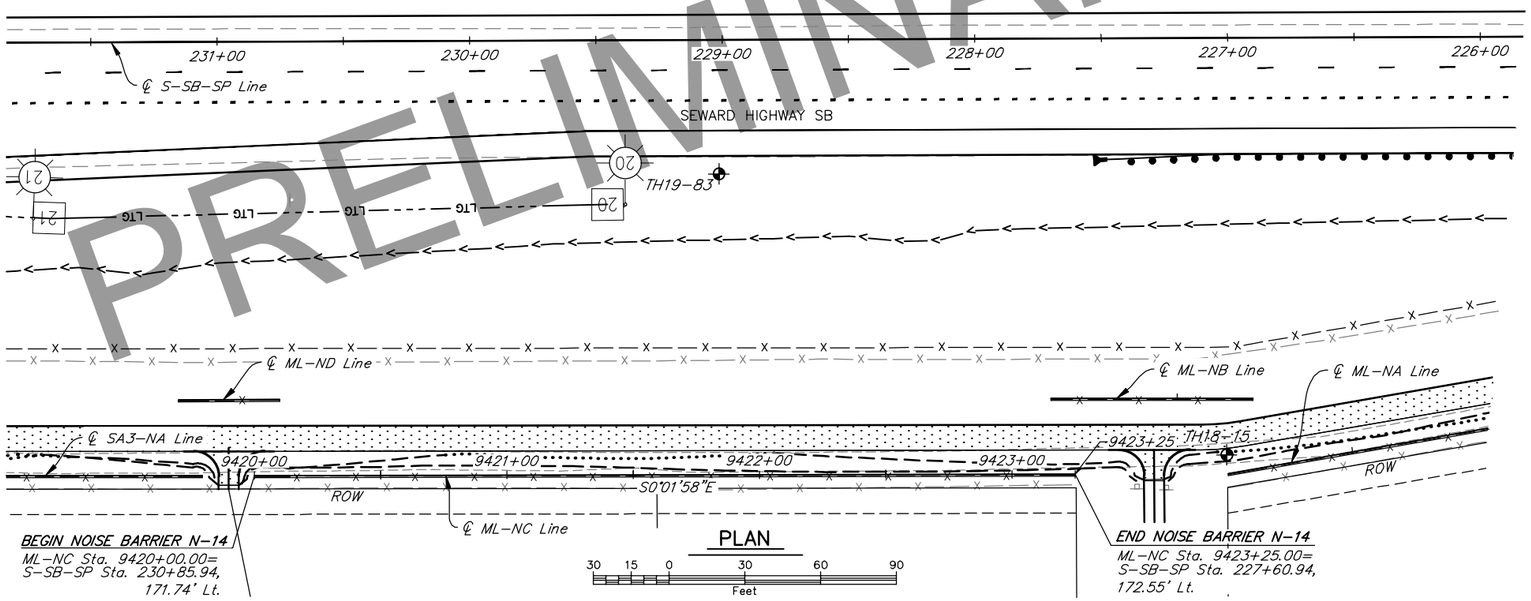
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-14 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6	5.75	2
S120	12.0	11.75	26

NOISE BARRIER N-14 PI STATION DATA

PI ML-NC STA.	NORTHING	EASTING
9420+00.00	309010.99	353261.75
9423+25.00	308685.99	353261.94

NOISE BARRIER N-14 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	2853

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
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3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY:	CHECKED:
MANZAR KHOSHNEVISSAN	MELISSA MONCADA
DRAWN BY:	CHECKED:
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	CHECKED:
DARYL MONK	RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

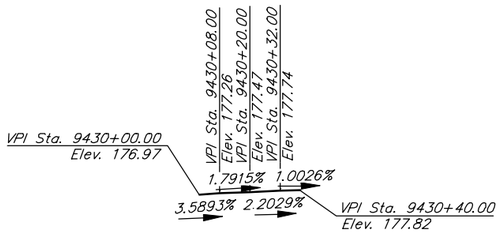
NOISE BARRIERS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
NOISE BARRIER N-14 LAYOUT

DWG. NO. 220

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

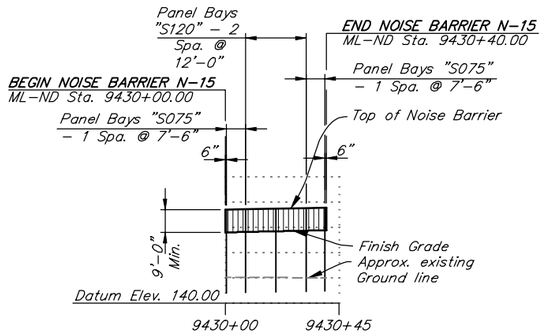
PW_429410 00012-ML-ND.dwg Apr 04,2022 - 2:39pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M221	M230



NOISE BARRIER TOP GRADE DATA

No Scale



NOISE BARRIER N–15 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S075	7.5	7.25	2
S120	12	11.75	2

NOISE BARRIER N–15 PI STATION DATA

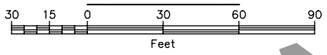
PI ML–ND STA.	NORTHING	EASTING
9430+00.00	309040.97	353291.67
9430+40.00	309000.97	353291.83

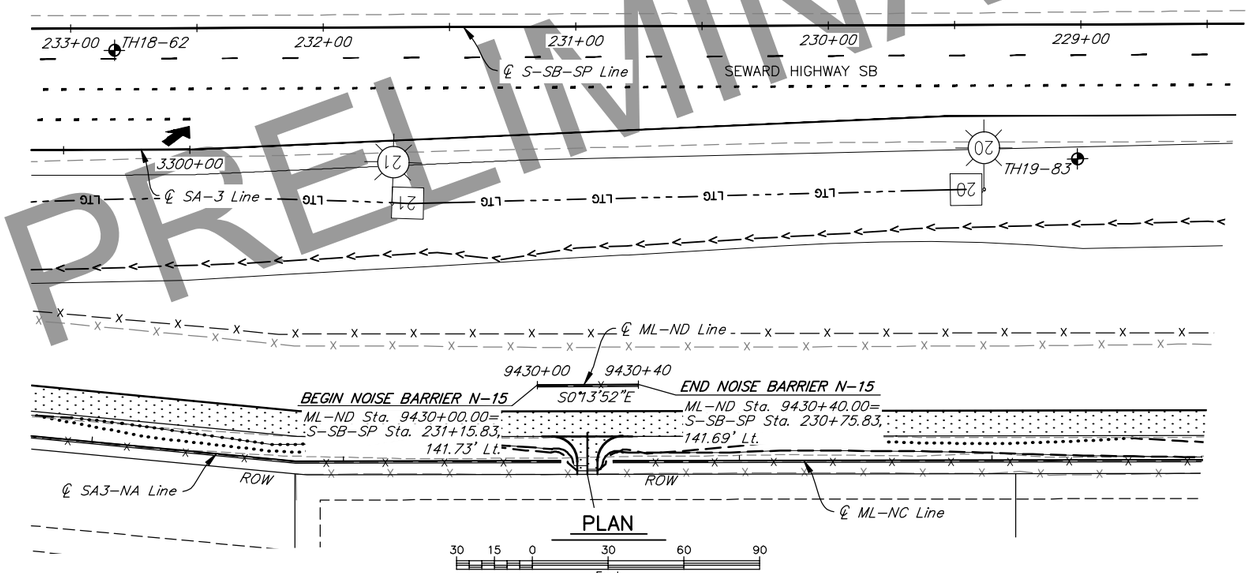
NOISE BARRIER N–15 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	350

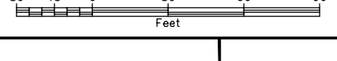
Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ELEVATION





PLAN



Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right–of–way and barrier lines for inspection by the engineer prior to beginning barrier construction.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

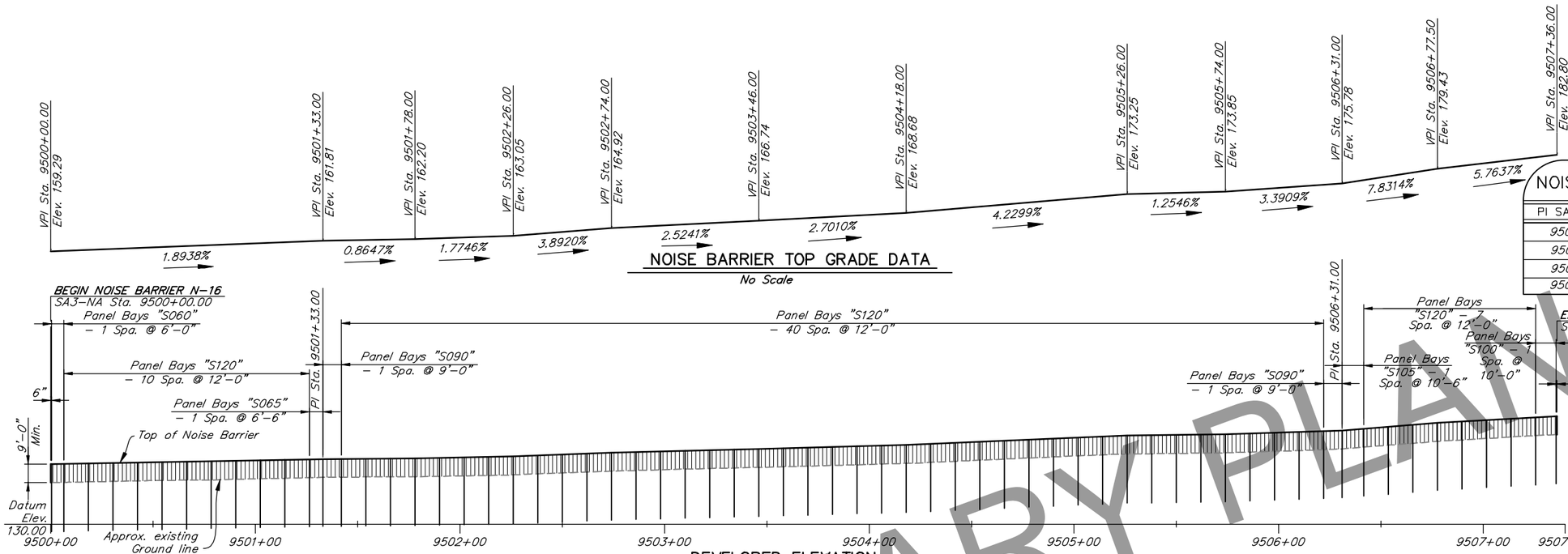
SEWARD HIGHWAY – O'MALLEY TO DIMOND

NOISE BARRIER N–15 LAYOUT

DWG. NO. 221

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M222	M230



NOISE BARRIER N–16 PI STATION DATA

PI SA3–NA STA.	NORTHING	EASTING
9500+00.00	309765.41	353309.05
9501+33.00	309632.42	353309.37
9506+31.00	309136.70	353261.69
9507+36.00	309031.70	353261.74

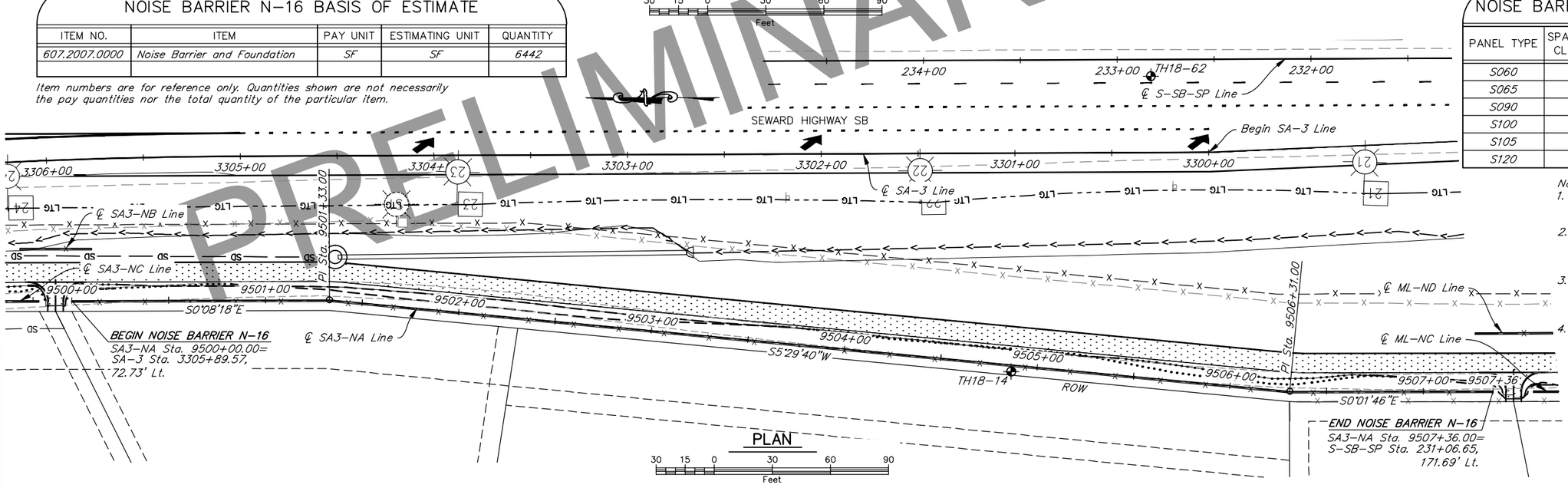
NOISE BARRIER N–16 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	6442

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

DEVELOPED ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N–16 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6.0	5.75	1
S065	6.5	6.25	1
S090	9.0	8.75	2
S100	10.0	9.75	1
S105	10.5	10.25	1
S120	12.0	11.75	57

Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right–of–way and barrier lines for inspection by the engineer prior to beginning barrier construction.*

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022 REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
NOISE BARRIER N–16 LAYOUT

DWG. NO. 222

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762–1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012–SA3–NA.dwg Apr 04,2022 – 2:48pm

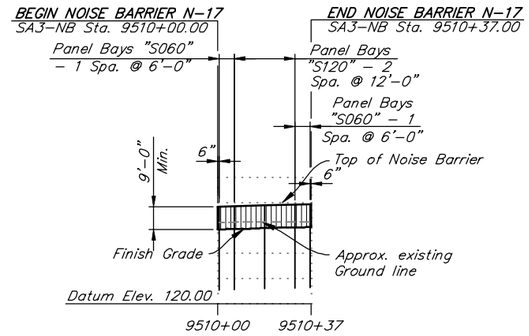
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-SA3-NB.dwg Apr 04,2022 - 2:49pm

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M223	M230

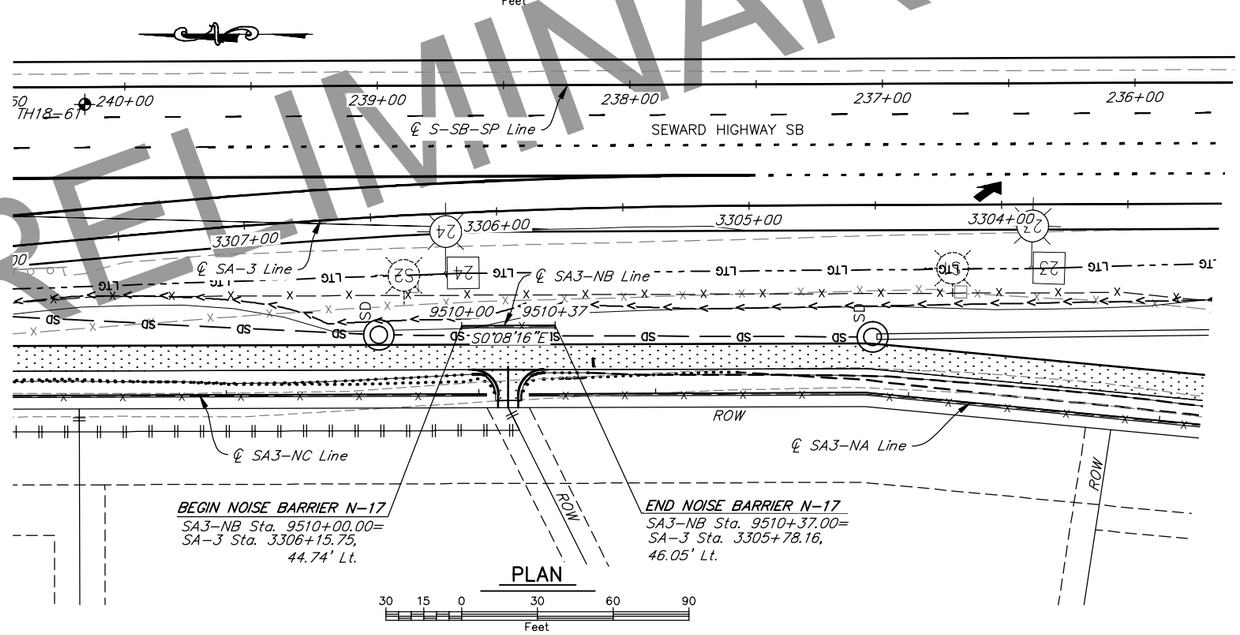
NOISE BARRIER TOP GRADE DATA

No Scale



ELEVATION

30 15 0 30 60 90
Feet



PLAN

30 15 0 30 60 90
Feet

NOISE BARRIER N-17 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S060	6.0	5.75	2
S120	12.0	11.75	2

NOISE BARRIER N-17 PI STATION DATA

PI SA3-NB STA.	NORTHING	EASTING
9510+00.00	309792.14	353336.00
9510+37.00	309755.14	353336.09

NOISE BARRIER N-17 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	325

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:
1. Locate utilities prior to constructing adjacent noise barrier foundations.
2. Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.
3. Coordinate installation of noise barrier foundations with installation of proposed utilities.
4. Stake right-of-way and barrier lines for inspection by the engineer prior to beginning barrier construction.

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

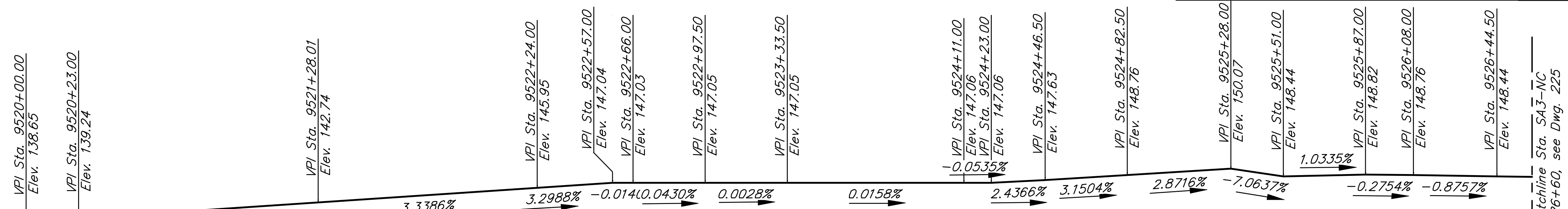
STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
NOISE BARRIER N-17 LAYOUT

DWG. NO. 223

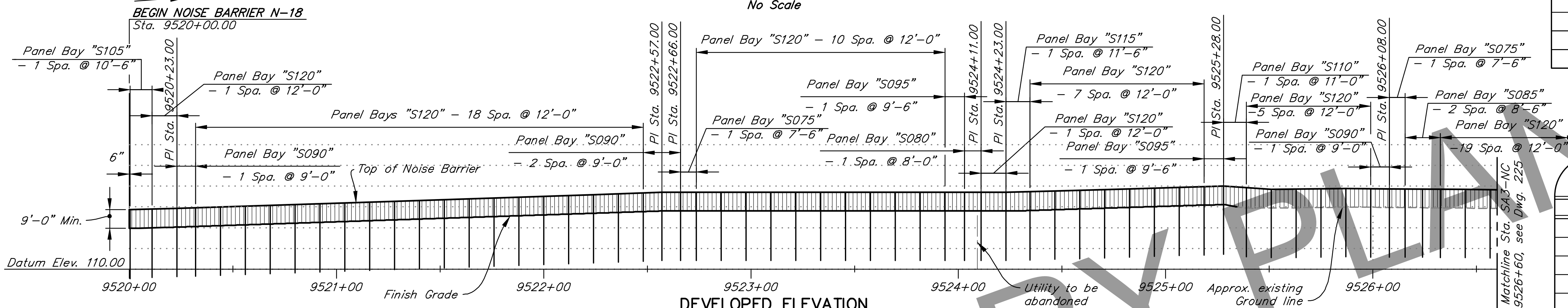
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M224	M230

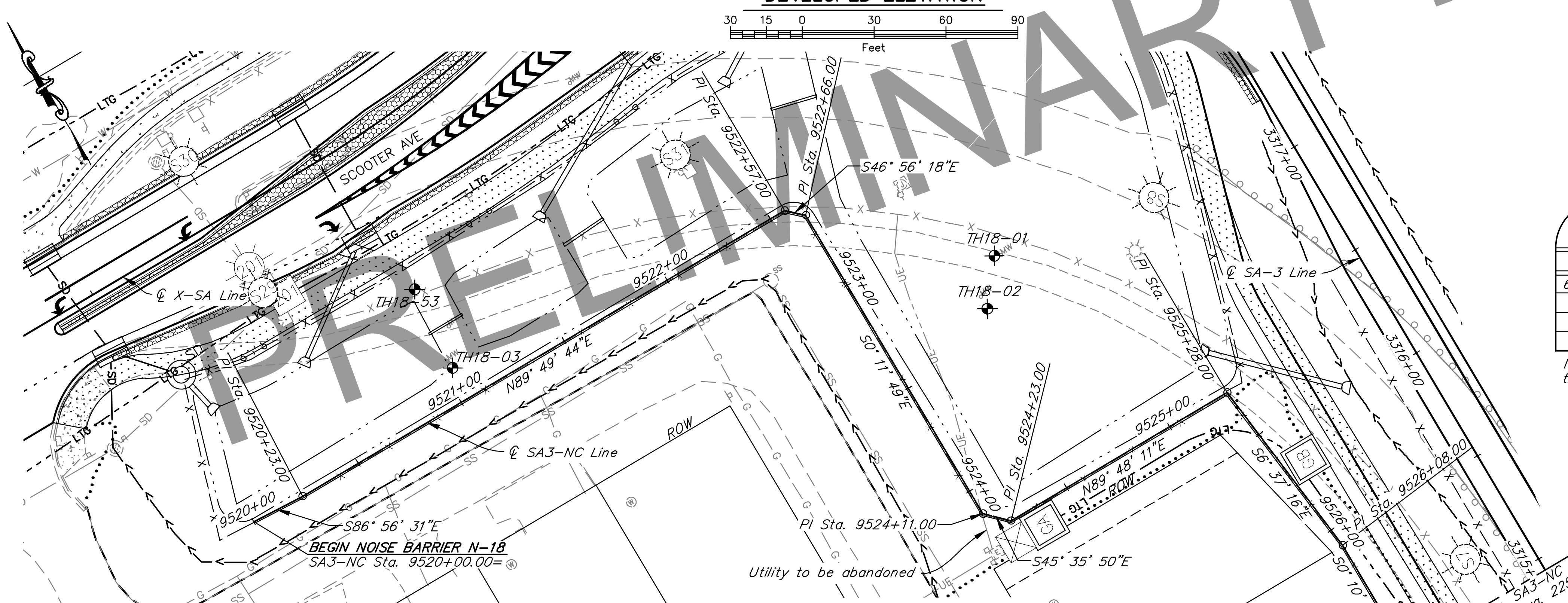


NOISE BARRIER TOP GRADE DATA

No Scale



DEVELOPED ELEVATION



PLAN

NOISE BARRIER N-18 PANEL SCHEDULE

PANEL TYPE	SPACING CL TO CL PILE (FT.)	PANEL LENGTH (FT.)	TOTAL NO. OF BAYS
S070	7	6.75	1
S075	7.5	7.25	6
S080	8	7.75	1
S085	8.5	8.25	4
S090	9	8.75	6
S095	9.5	9.25	3
S105	10.5	10.25	1
S110	11	10.75	2
S115	11.5	11.25	2
S120	12	11.75	110

NOISE BARRIER N-18 PI STATION DATA

PI SA3-NC STA.	NORTHING	EASTING
9520+00.00	310962.22	352884.68
9520+23.00	310961.00	352907.66
9522+57.00	310961.69	353141.65
9522+66.00	310955.55	353148.23
9524+11.00	310810.55	353148.73
9524+23.00	310802.16	353157.30
9525+28.00	310802.52	353262.30
9526+08.00	310723.05	353271.53
9528+95.00	310436.05	353272.40
9529+51.00	310383.44	353291.56
9531+16.00	310218.43	353291.96
9532+52.00	310083.42	353308.28
9535+53.00	309782.42	353309.01

NOISE BARRIER N-18 BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	QUANTITY
607.2007.0000	Noise Barrier and Foundation	SF	SF	13,598

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

Notes:

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DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH CERTIFICATION APRIL 2022

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

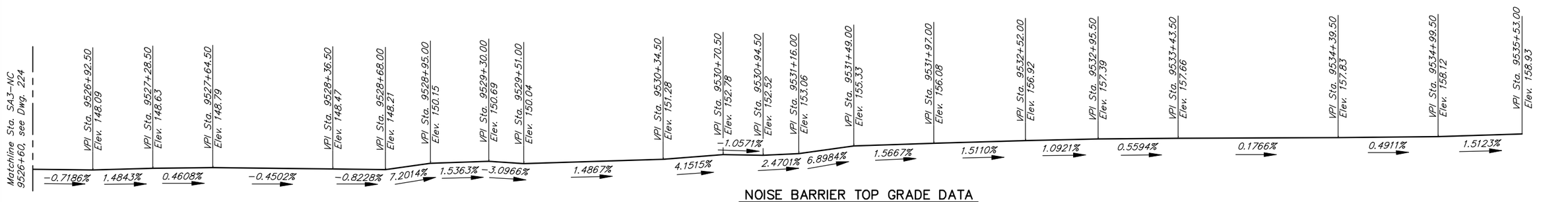
NOISE BARRIER N-18 LAYOUT (1 OF 2)

DWG. NO. 224

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

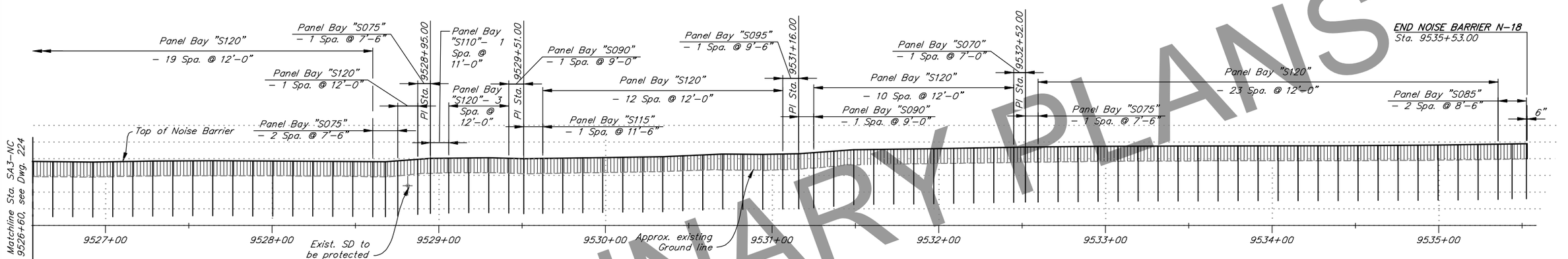
PW_429410 00012-SA3-NC-01.dwg Apr 04,2022 - 2:51pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M225	M230



NOISE BARRIER TOP GRADE DATA

No Scale

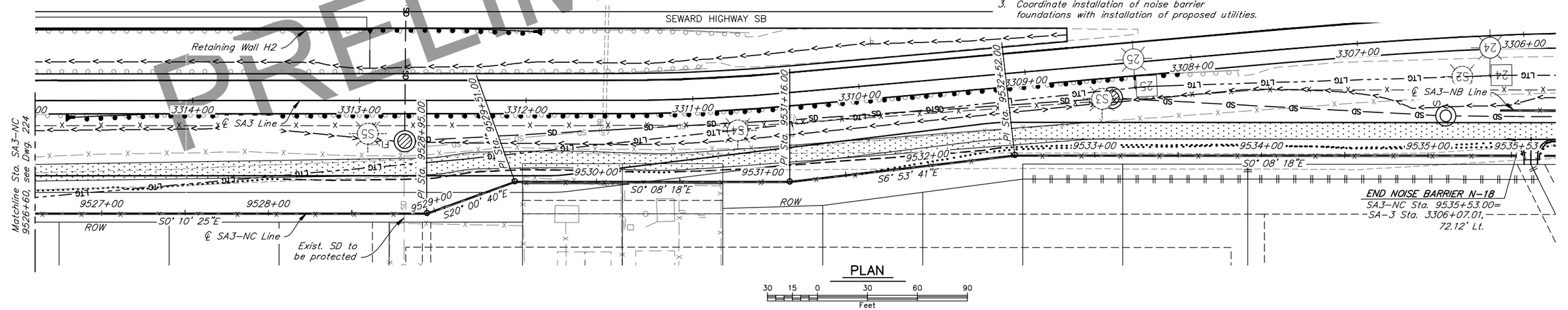


DEVELOPED ELEVATION

30 15 0 30 60 90
Feet

Notes:

1. *Locate utilities prior to constructing adjacent noise barrier foundations.*
2. *Do not construct noise barrier foundation adjacent to gas line until line has been located or removed.*
3. *Coordinate installation of noise barrier foundations with installation of proposed utilities.*
4. *Stake right–of–way and barrier lines for inspection by the engineer prior to beginning barrier construction.*
5. *See Layout sheet 1 of series for Noise Barrier Panel Schedule, PI Station Data Table and Basis of Estimate Table.*



PLAN

30 15 0 30 60 90
Feet

DESIGNED BY: MANZAR KHOSHNEVISSAN	CHECKED: MELISSA MONCADA
DRAWN BY: DARYL MONK	CHECKED: MELISSA MONCADA
QUANTITIES BY: DARYL MONK	CHECKED: RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS

SEWARD HIGHWAY – O'MALLEY TO DIMOND

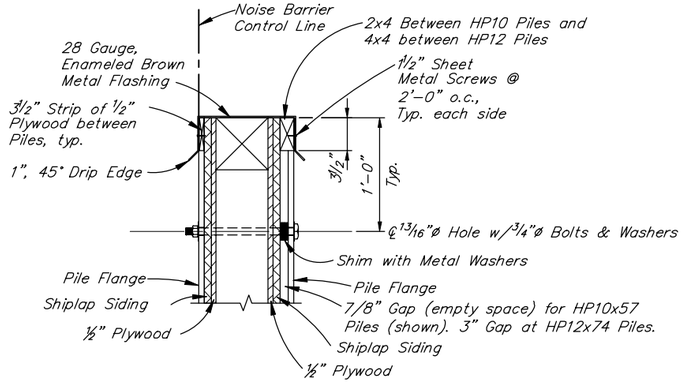
NOISE BARRIER N–18 LAYOUT (2 OF 2)

DWG. NO. 225

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762–1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628

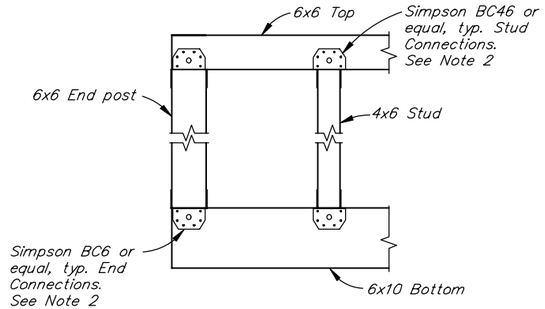
PW_429410 00012–SA3–NC–02.dwg Apr 04,2022 – 2:52pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M226	M230



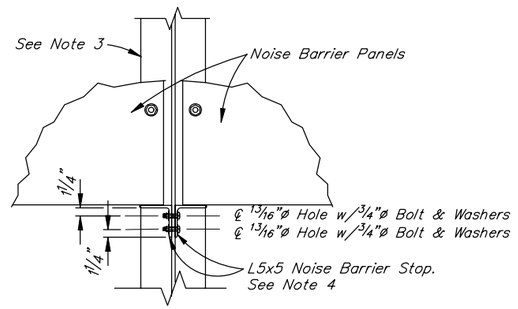
DETAIL B

12 6 0 1 In. Feet

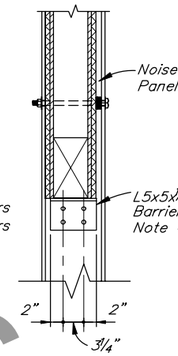


WOOD CONNECTION DETAILS

12 6 0 1 2 In. Feet



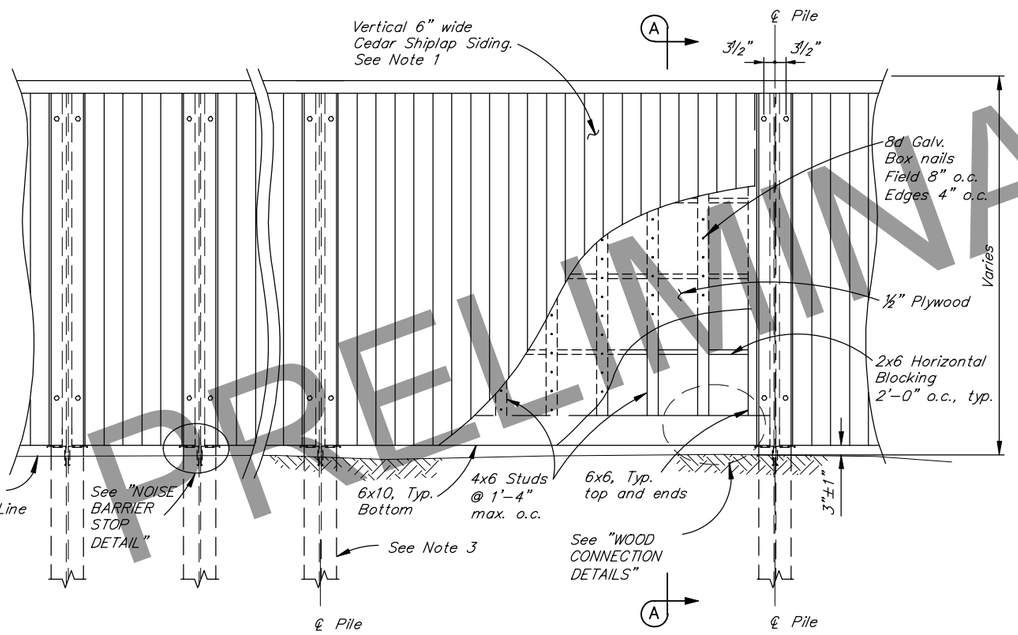
SECTION



ELEVATION

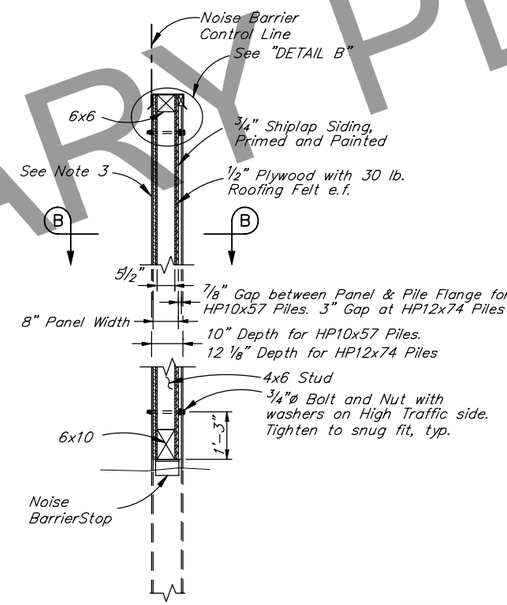
NOISE BARRIER STOP DETAIL

12 6 0 1 2 In. Feet



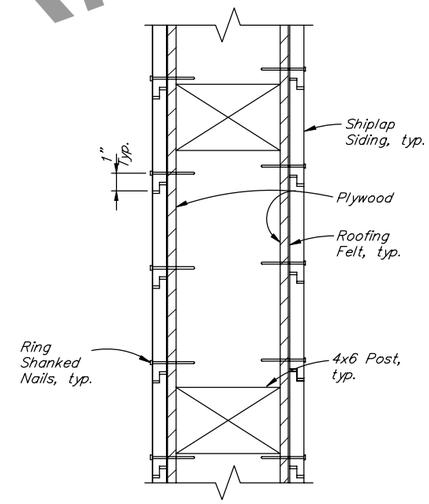
NOISE BARRIER ELEVATION

12 6 0 1 2 3 4 In. Feet



SECTION A–A

12 6 0 1 2 3 4 In. Feet



SECTION B–B

6 3 0 1 In. Feet

NOTES:

1. Hand nail siding with 10d, 12ga., 0.109"ø Ring Shanked, type 304 stainless steel siding nails with patterned head epoxy painted to match siding finish. Fastener spacing 2'–0" o.c. max. Do not nail thru siding overlap. Drive nails snug without distorting siding wood.
2. Install per Manufacturer's Instructions / Recommendations.
3. Structural steel pile section varies. HP10x57 shown in details on this drawing. See NOISE BARRIER PILE SCHEDULE on FOUNDATION PLAN.
4. For details at corners, see NOISE BARRIER CORNER DETAILS.

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH — CERTIFICATION APRIL 2022 — REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
NOISE BARRIER FRAMING & DETAILS

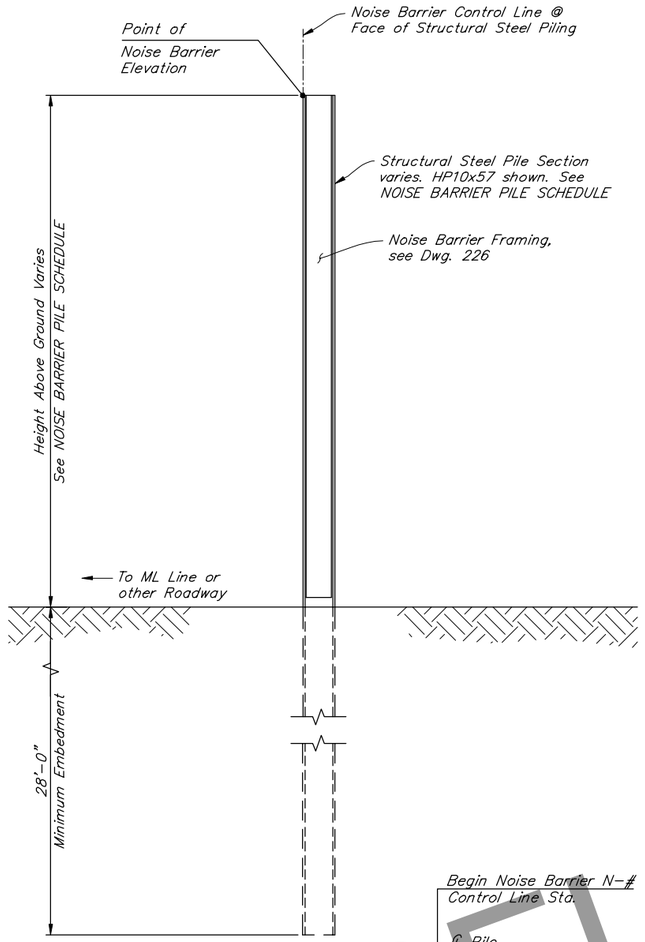
DWG. NO. 226

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 0012-NB-01.dwg Apr 04,2022 – 2:42pm

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-NB-02.dwg Apr 04,2022 - 2:42pm

NO.	DATE	REVISION

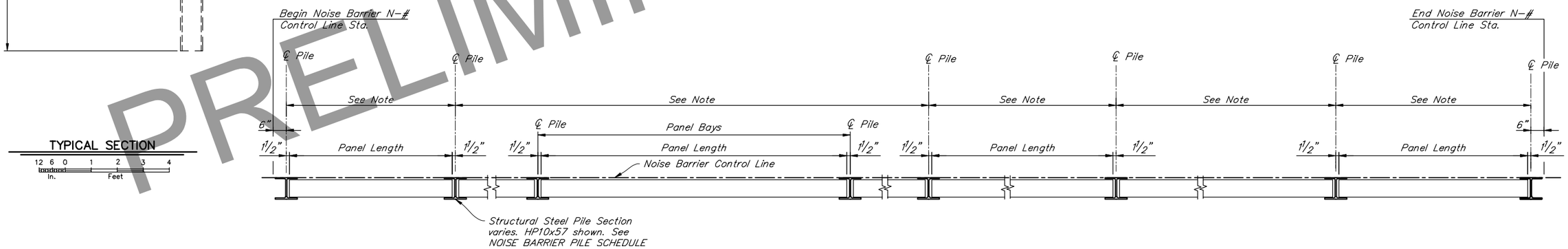
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	M227	M230



NOISE BARRIER PILE SCHEDULE

NOISE BARRIER	HEIGHT ABOVE GROUND (FT.)	MIN. EMBEDMENT (FT.)	MIN. PILE LENGTH (FT.)	STRUCTURAL STEEL PILE SECTION
N-1	13	28	41	HP10x57
N-2	13	28	41	HP10x57
N-3	13	28	41	HP10x57
N-4	13	28	41	HP10x57
N-5	13	28	41	HP10x57
N-6	13	28	41	HP10x57
N-7	18	28	46	HP12x74
N-9	18	28	46	HP12x74
N-10	18	28	46	HP12x74
N-11	18	28	46	HP12x74
N-12	9	28	37	HP10x57
N-13	9	28	37	HP10x57
N-14	9	28	37	HP10x57
N-15	9	28	37	HP10x57
N-16	9	28	37	HP10x57
N-17	9	28	37	HP10x57
N-18	9	28	37	HP10x57

Note:
Panel spacing ℄ to ℄ Varies 6'-0" to 12'-0"
(Panel Types "S060" Through "S120") Panel
Type & # of Spacing Shown on Layout Sheets.



TYPICAL SECTION

12 6 0 1 2 3 4
In. Feet

NOISE BARRIER PLAN

12 6 0 1 2 3 4
In. Feet

Notes:
1. Generic pile spacing shown. For actual dimensions, see Layout sheets.

DESIGNED BY:	CHECKED:
MELISSA MONCADA	MANZAR KHOSHNEVISSAN
DRAWN BY:	**CHECKED:**
DARYL MONK	MELISSA MONCADA
QUANTITIES BY:	**CHECKED:**
MELISSA MONCADA	MANZAR KHOSHNEVISSAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

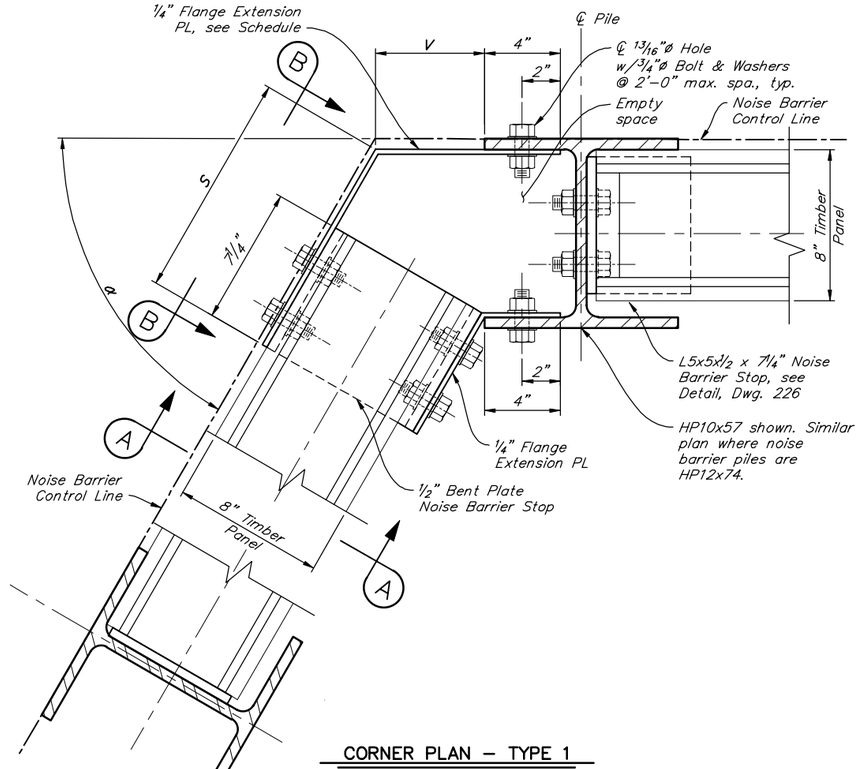
STATE OF ALASKA 49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY - O'MALLEY TO DIMOND
NOISE BARRIER FOUNDATION PLAN

DWG. NO. 227

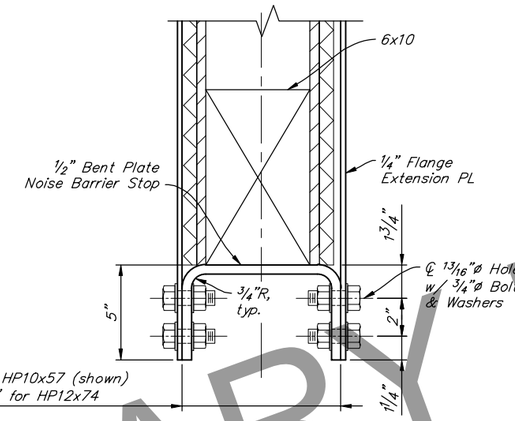
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-NB-03.dwg Apr 04,2022 - 2:42pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M228	M230



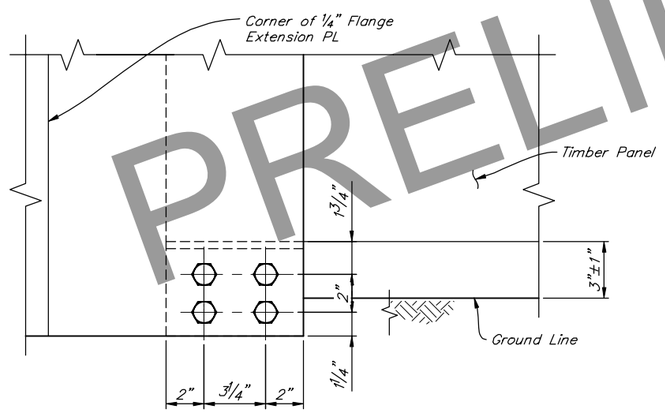
CORNER PLAN – TYPE 1

6 0 1
In. Feet



SECTION A–A

6 0 1
In. Feet



SECTION B–B

6 0 1
In. Feet

FLANGE EXTENSION PLATE SCHEDULE

NOISE BARRIER	STATION	V	S	α
N–1	9000+74.00	7/8"	8 1/8"	11.3°
	9001+45.00	4 5/8"	11 7/8"	55.0°
	9003+28.00	1 7/8"	9 1/8"	23.4°
N–3	9112+91.00	3/8"	7 5/8"	4.8°
	9116+16.00	1/4"	7 1/2"	1.8°
N–4	9120+24.00	2 7/8"	10 1/8"	35.4°
	9121+08.00	1/4"	7 1/2"	2.0°
	9123+36.00	3/8"	7 5/8"	4.8°
N–5	9132+04.00	1/4"	7 1/2"	2.6°
	9137+32.00	1/4"	7 1/2"	2.4°
	9137+80.00	1/4"	7 1/2"	2.4°
N–6	9200+30.00	1/4"	7 1/2"	3.0°
	9208+83.00	1 1/8"	8 3/8"	14.3°
	9211+14.00	1 1/8"	8 3/8"	14.2°
	9212+25.00	1/4"	7 1/2"	2.4°
	9212+73.00	1/4"	7 1/2"	2.4°
	9212+98.00	4"	11 1/4"	48.5°
	9214+18.00	3 3/8"	10 5/8"	41.3°
N–7	9301+20.00	5 7/8"	13 1/8"	56.6°
	9304+46.00	2 5/8"	9 7/8"	26.9°
	9307+56.00	5/8"	7 7/8"	6.5°
N–11	9340+75.00	4 3/8"	11 1/2"	42.9°
N–12	9403+04.00	7/8"	8 1/8"	9.9°
	9406+63.00	1/2"	7 3/4"	5.2°
N–16	9501+33.00	1/2"	7 3/4"	5.6°
	9506+31.00	1/2"	7 3/4"	5.5°
N–18	9520+23.00	1/4"	7 1/2"	3.2°
	9522+57.00	3 1/2"	10 7/8"	43.2°
	9522+66.00	3 7/8"	11 1/8"	46.7°
	9524+11.00	3 3/4"	11"	45.4°
	9524+23.00	3 3/4"	11"	44.6°
	9526+08.00	1/2"	7 3/4"	6.4°
	9528+95.00	1 5/8"	8 7/8"	19.8°
	9529+51.00	1 5/8"	8 7/8"	19.9°
	9531+16.00	5/8"	7 7/8"	6.8°
	9532+52.00	5/8"	7 7/8"	6.8°

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RAQUEL MCCAIN

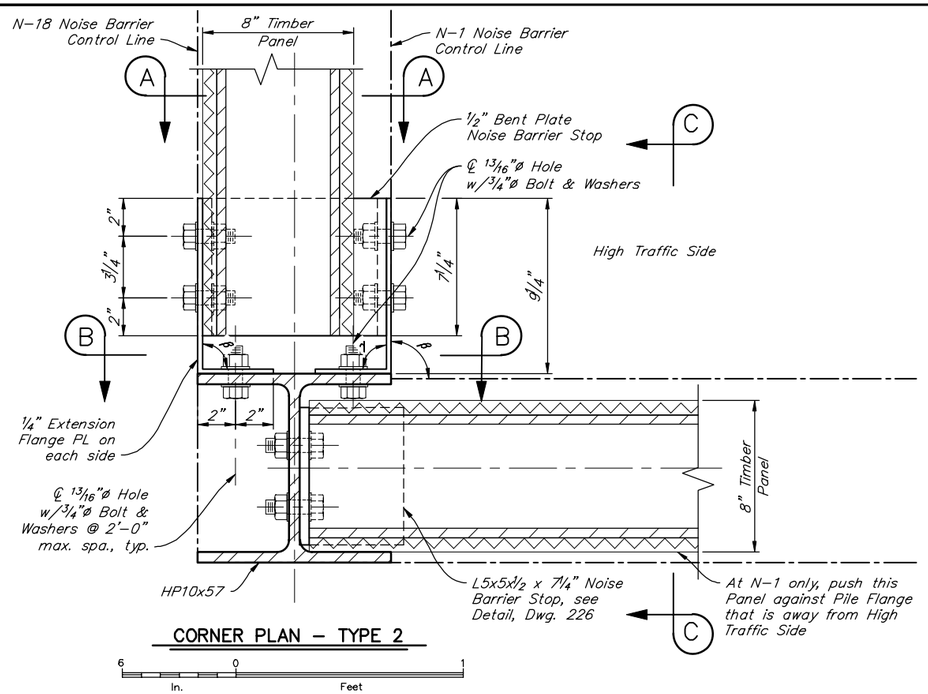
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
NOISE BARRIER CORNER DETAILS – TYPE 1

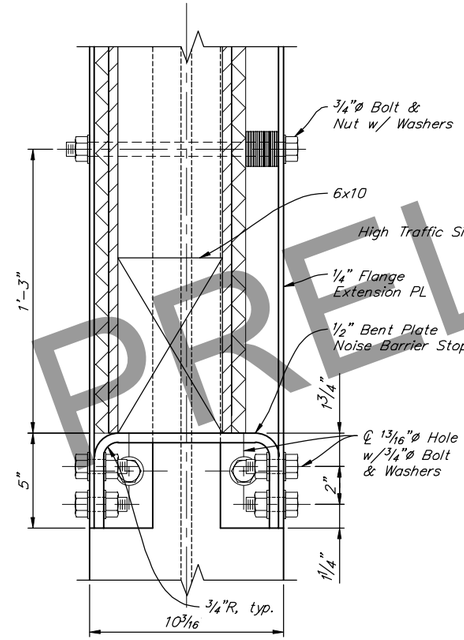
DWG. NO. 228

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M229	M230



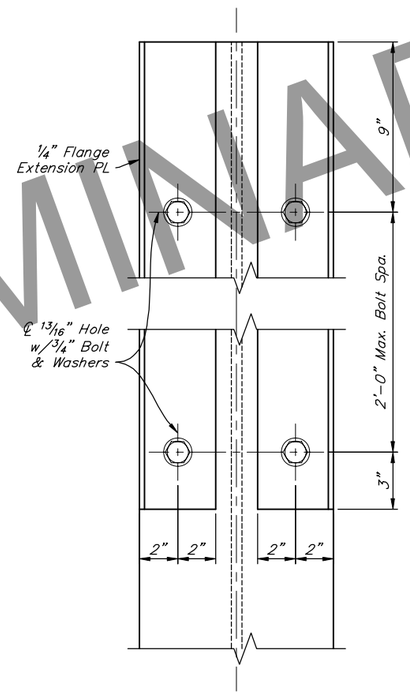
CORNER PLAN – TYPE 2

6 0 1
In. Feet



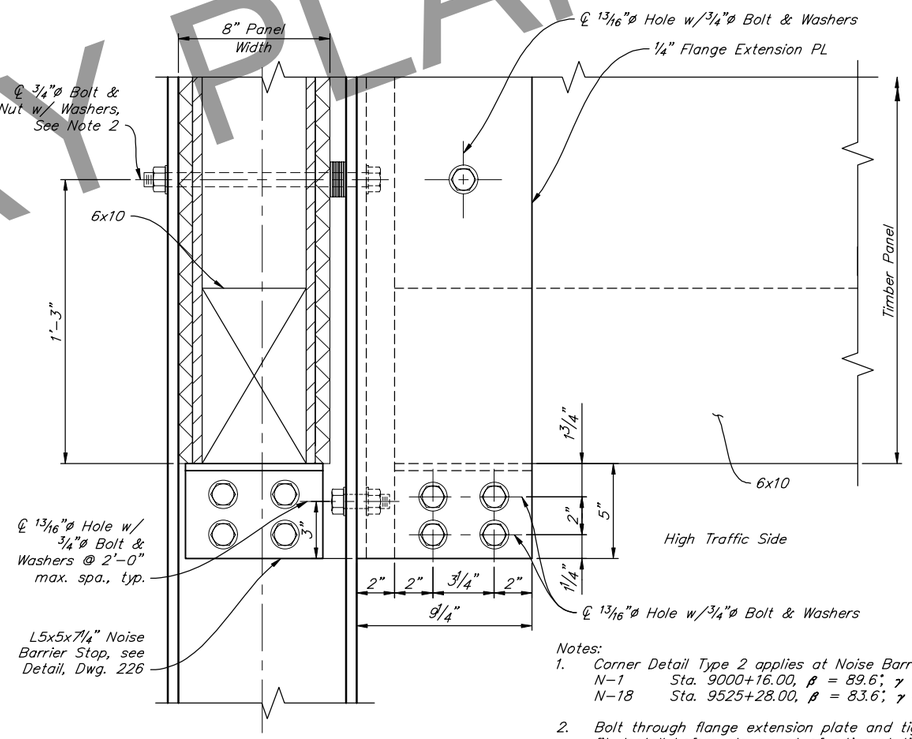
SECTION A–A

6 0 1
In. Feet



SECTION B–B

6 0 1
In. Feet



Notes:
1. Corner Detail Type 2 applies at Noise Barrier:
   N–1 Sta. 9000+16.00, β = 89.6°, γ = 90.4°
   N–18 Sta. 9525+28.00, β = 83.6°, γ = 96.4°
2. Bolt through flange extension plate and tighten snug fit. Install before placement of adjacent timber panel.

SECTION C–C

6 0 1
In. Feet

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RAQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

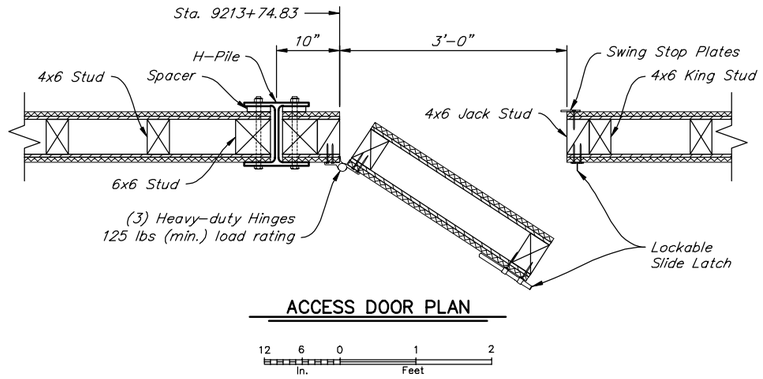
STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
NOISE BARRIER CORNER DETAILS – TYPE 2

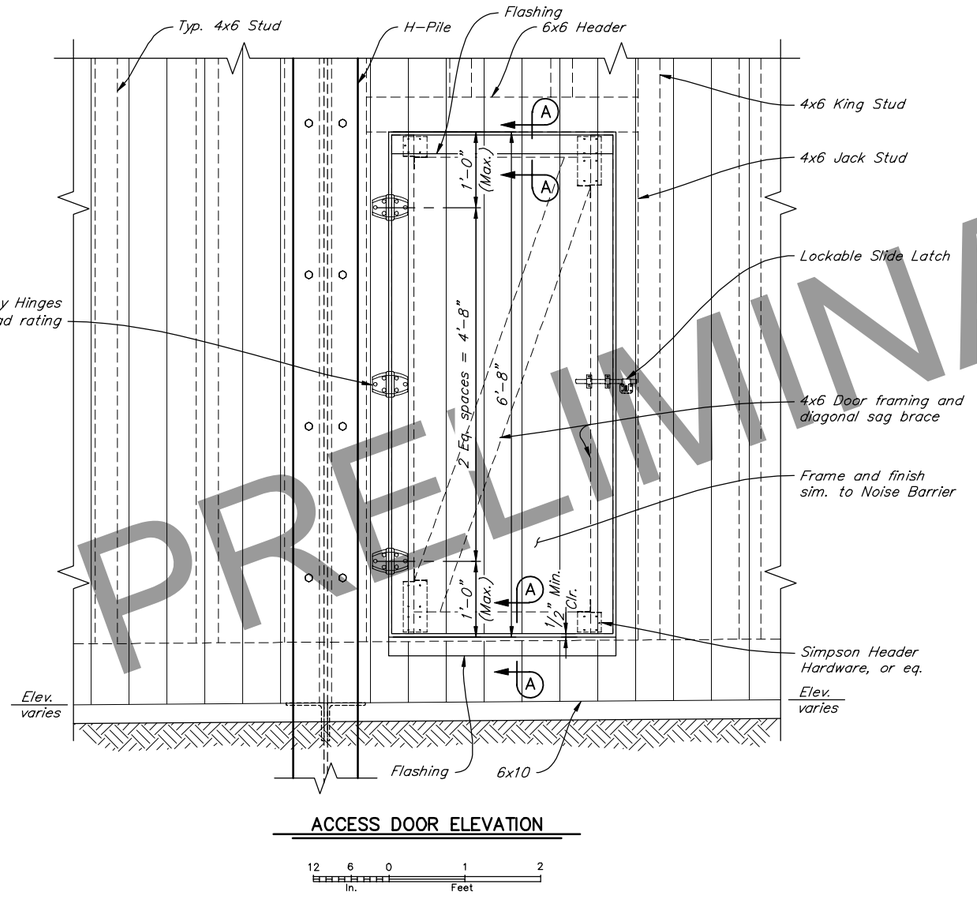
DWG. NO. 229

PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-NB-04.dwg Apr 04,2022 – 2:42pm

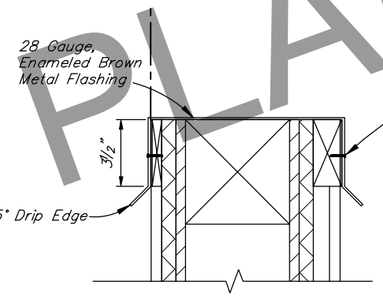
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0537008/CFHWY00012	2022	M230	M230



ACCESS DOOR PLAN



ACCESS DOOR ELEVATION



SECTION A–A

No Scale
Flashing at threshold and top of door

DESIGNED BY: MANZAR KHOSHNEVISSAN	**CHECKED:** MELISSA MONCADA
DRAWN BY: DARYL MONK	**CHECKED:** MELISSA MONCADA
QUANTITIES BY: DARYL MONK	**CHECKED:** RACQUEL MCCAIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

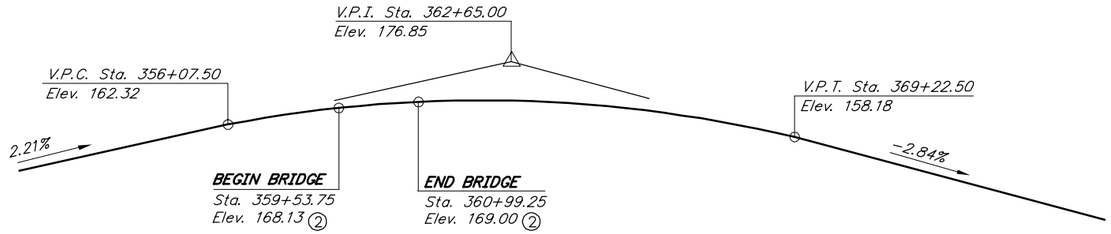
STATE OF ALASKA 49TH
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

NOISE BARRIERS
SEWARD HIGHWAY – O'MALLEY TO DIMOND
NOISE BARRIER ACCESS DOOR DETAILS

DWG. NO. 230

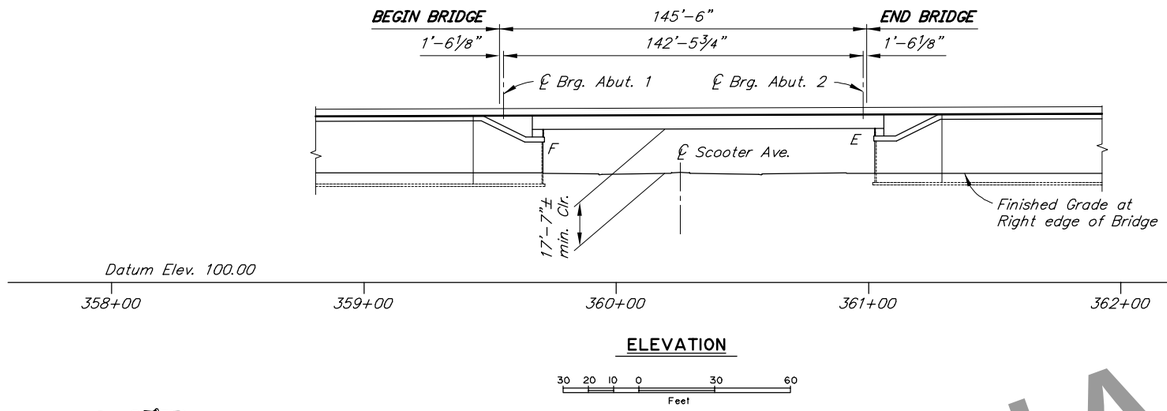
PLANS DEVELOPED BY: JACOBS ENGINEERING GROUP, INC. ADDRESS: 949 E. 36TH AVENUE, SUITE 500, ANCHORAGE, AK 99508 PHONE: (907) 762-1500 CERTIFICATE OF AUTHORIZATION NUMBER: AECC628
PW_429410 00012-NB-05.dwg Apr 04,2022 - 2:43pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N1	N24

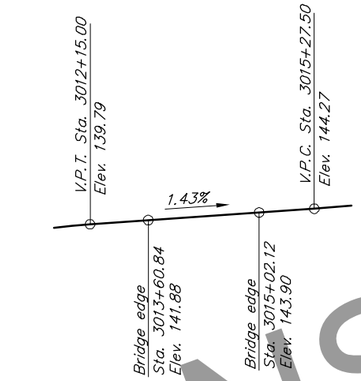


SEWARD HIGHWAY PROFILE GRADE DATA

No Scale

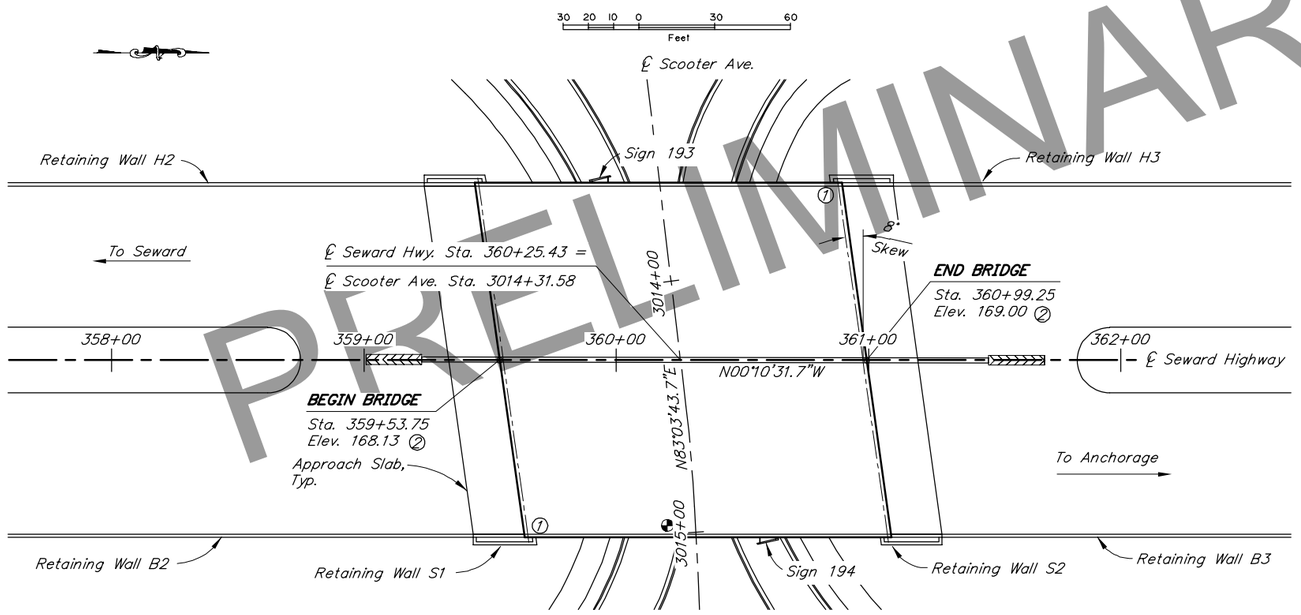


ELEVATION



SCOOTER AVE. PROFILE GRADE DATA

No Scale



PLAN

30 20 10 0 30 60
Feet

PRELIMINARY PLANS

BRIDGE DRAWING INDEX

(1) – *Approximate location of Bridge Number Plate.*

(2) – *Begin Bridge and End Bridge elevations are based on the projected bridge centerline elevation.*

◒ = *Low Clearance*

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis	LAYOUT BY: Andrew Wells	CHECKED BY: Duane Davis	
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells	SPECIFICATIONS BY: Andrew Wells	P S & E COMPARED: Duane Davis	
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis	APPROVAL RECOMMENDED BY: Rich Pratt		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C. Wells
04-06-2022
No. CE-156776
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

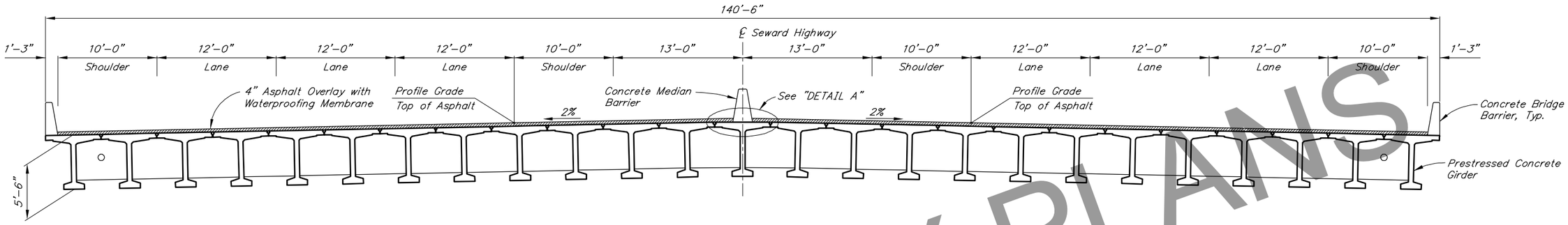
GENERAL LAYOUT

BRIDGE NO. 2239

DWG. NO. 1

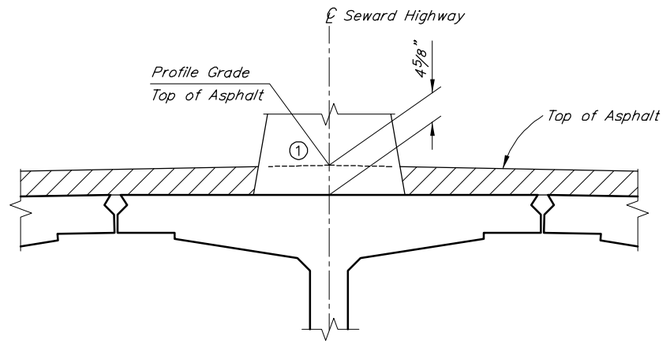
R:\cad\2239\2239-GENERAL LAYOUT Fri, Apr/08/22 09:18am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N2	N24



TYPICAL SECTION

12 0 5 10
In. Feet



DETAIL A

12 6 0 1 2
In. Feet

NOTE:

① – *Begin Bridge and End Bridge elevations are based on the projected bridge centerline elevation.*

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49 TH
Andrew C.Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

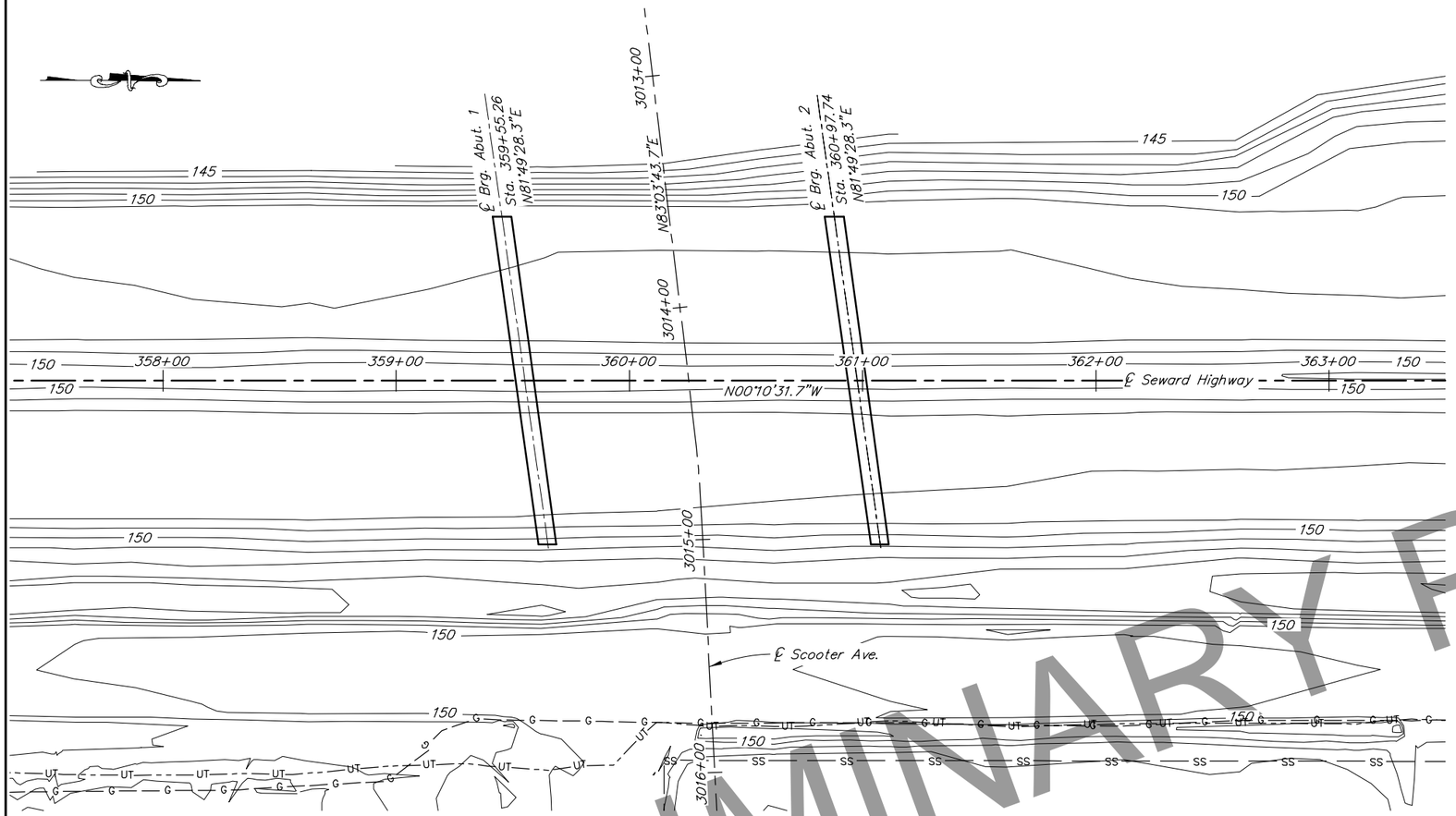
TYPICAL SECTION

BRIDGE NO. 2239

DWG. NO. 2

R:\cad\2239\2239-TYPICAL Fri, Apr/08/22 09:18am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N3	N24



SITE PLAN

30 20 10 0 30 60
Feet

GENERAL NOTES

DESIGN:..... AASHTO LRFD Bridge Design Specifications, 2020 Edition, with latest interim specifications.

Seismic design per AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2011 with latest interim revisions.

LIVE LOAD:..... HL-93

DEAD LOAD:..... Includes 50 psf for all wearing surfaces.

SEISMIC PARAMETERS:..... PGA = 0.54
Ss = 1.18
S1 = 0.46
Site Class = C
Liquefaction Potential = Low
AASHTO 7% probability of exceedance in 75 years.

REINFORCEMENT:..... ASTM A706, Grade 60, Fy = 60,000 psi
ASTM A970 Headed bars, Class HA.
Space reinforcement evenly unless otherwise noted.

PRESTRESSED CONCRETE:..... See "GIRDERS" Dwg.

CONCRETE:..... Class A Concrete unless otherwise noted, f'c = 4,000 psi

STRUCTURAL STEEL:..... ASTM A709, Grade 36T3, Fy = 36,000 psi
Galvanize structural steel in accordance with AASHTO M111 unless shown otherwise.

POROUS BACKFILL:..... Gradation A or B

FOOTING PRESSURE TABLE

LOCATION	STRENGTH I FACTORED LOAD (KSF)	NOMINAL BEARING RESISTANCE (KSF)	BEARING RESISTANCE FACTOR, ϕ
Abutment 1	6.90	18.00	0.45
Abutment 2	6.90	18.00	0.45

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL QUANTITY
205.0006.0000	Structural Fill	CY	CY	6,340	---	6,340
501.0001.0000	Class A Concrete	LS	CY	362.8	386.9	749.7
501.0007.0000	Precast Concrete Member, 144'-0" Decked Bulb-Tee	EA	EA	---	25	25
503.0001.0000	Reinforcing Steel	LS	LBS	44,470	---	44,470
503.0002.0000	Epoxy-Coated Reinforcing Steel	LS	LBS	---	72,310	72,310
504.0001.0000	Structural Steel	LS	LBS	---	1,070	1,070
507.0004.0000	Concrete Bridge Barrier	LF	LF	---	557	557
508.0001.0000	Waterproofing Membrane, Spray-Applied	LS	SF	---	25,228	25,228

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ABBREVIATIONS:

℄	= centerline	e.w.	= each way	min.	= minimum
℗	= plate	Ext.	= exterior	MSE	= mechanically stabilized earth
&	= and	F	= fixed	n.f.	= near face
@	= at	f.f.	= front/air face	No.	= number
ø	= diameter	f'c	= specified concrete compressive strength	o.c.	= on center
±	= approximate			pcf	= pounds per cubic foot
Abut.	= abutment	f'ci	= specified concrete compressive strength at release	psf	= pounds per square foot
Approx.	= approximate			psi	= pounds per square inch
b.f.	= back/dirt face			R	= radius
bot.	= bottom	Ft.	= feet	R.O.W.	= right of way
Br.	= bridge	Fy	= yield stress	RT.	= right
btwn.	= between	— G — —	= underground gas line	Rd.	= road
Brg.	= bearings	Galv.	= galvanize	—SS— —	= sanitary sewer line
C.A.	= center of gravity	H.S.	= high strength	spcs.	= space, spaces
C.I.P.	= cast in place	Hwy.	= highway	Sta.	= station
CJP	= complete joint penetration	ID	= internal diameter	SF	= square feet
Clr.	= clear, clearance	Int.	= interior	Std.	= standard
CMP	= corrugated metal pipe	Jt.	= joint	Symm.	= symmetric
CY	= cubic yard	K	= kips	Typ.	= typical
Dia.	= diameter	ksf	= 1000 pounds per square foot	UT	= ultrasonic testing
Dwg.	= drawing	ksi	= 1000 pounds per square inch	---UT---	= underground telephone line
E	= expansion	LBS or lb	= pounds	V.P.C.	= point of vertical curve
(E)	= existing	LF	= linear foot	V.P.I.	= point of vertical intersection
EA	= each	LS	= lump sum	V.P.T.	= point of vertical tangent
Elev.	= elevation	LT.	= left	w/	= with
e.f.	= each face	max.	= maximum		

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis	FOUNDATIONS REVIEWED BY: Dave Hemstreet	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975	SCOOTER AVENUE UNDERCROSSING SEWARD HIGHWAY SITE PLAN
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells			
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis			

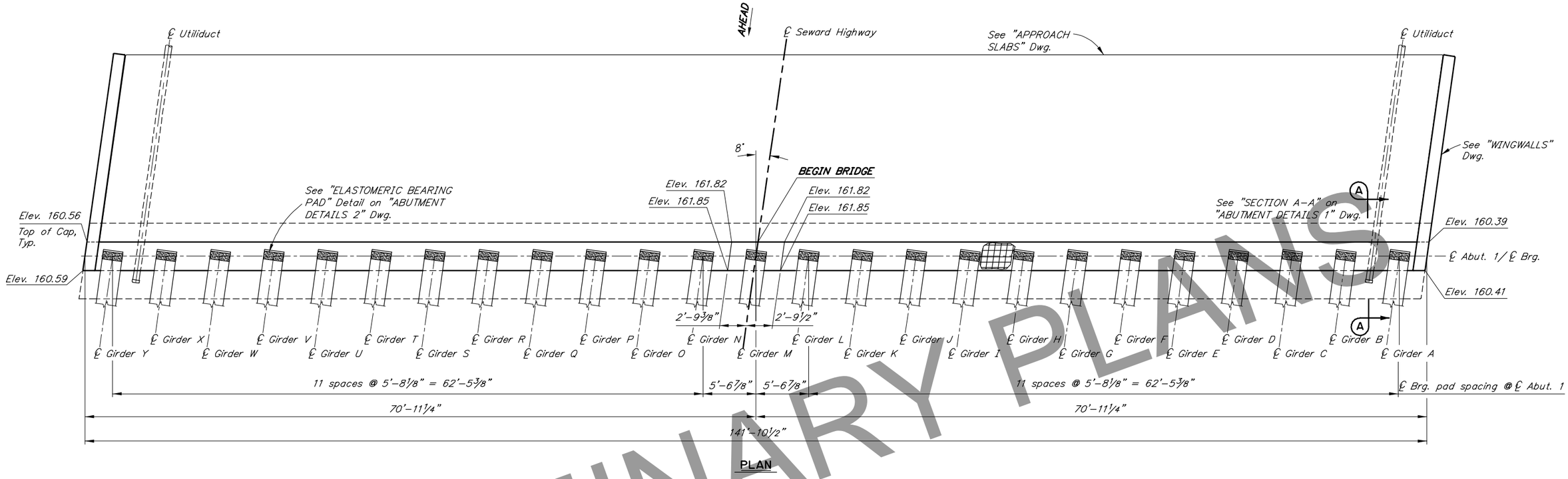
STATE OF ALASKA 49TH — Andrew C. Wells 04-08-2022 No. CE-15677 — REGISTERED PROFESSIONAL ENGINEER

BRIDGE NO. 2239

DWG. NO. 3

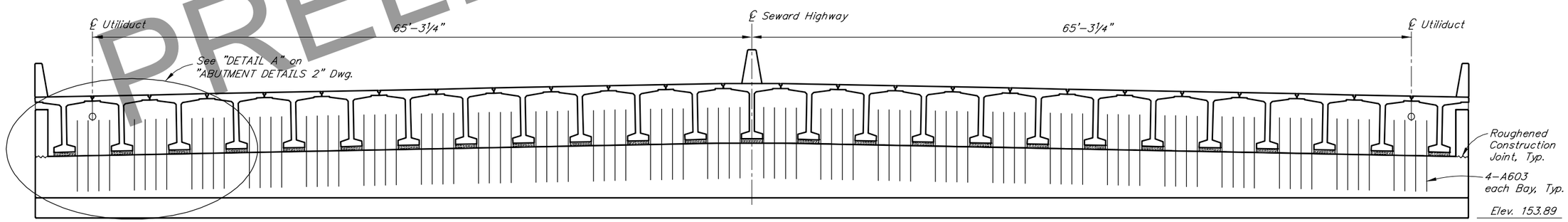
R:\cad\2239\2239-SITE PLAN Fri, Apr/08/22 09:18am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N4	N24



PLAN

12 0 5 10
In. Feet



ELEVATION

(Looking Back on Station)

12 0 5 10
In. Feet

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907–465–2975

STATE OF ALASKA 49TH
Andrew C. Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

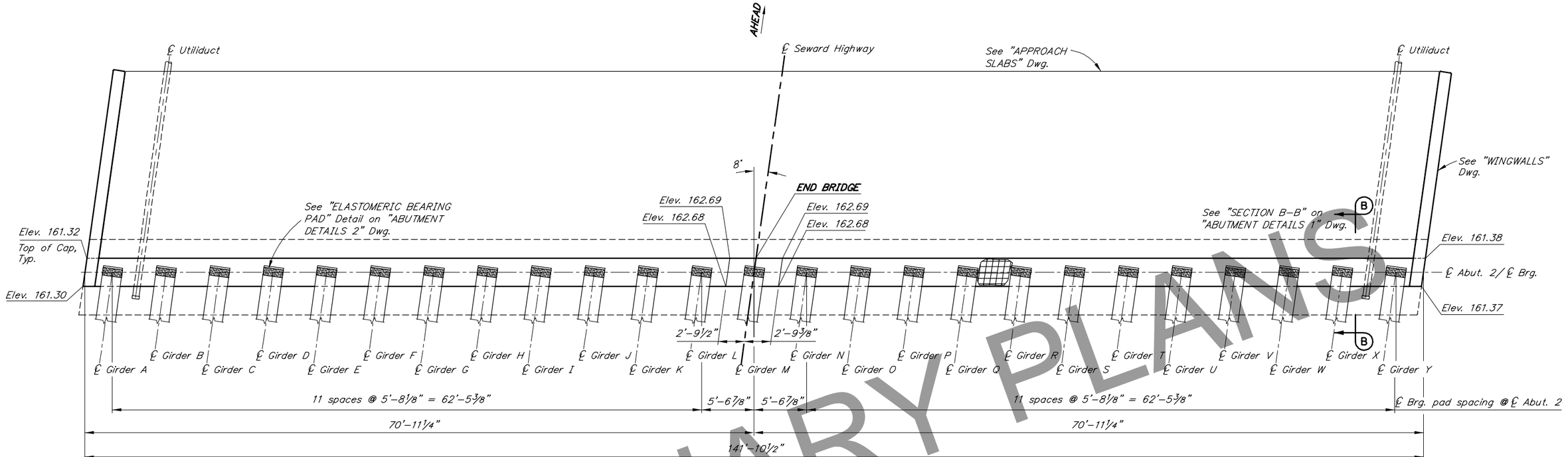
ABUTMENT 1

BRIDGE NO. 2239

DWG. NO. 4

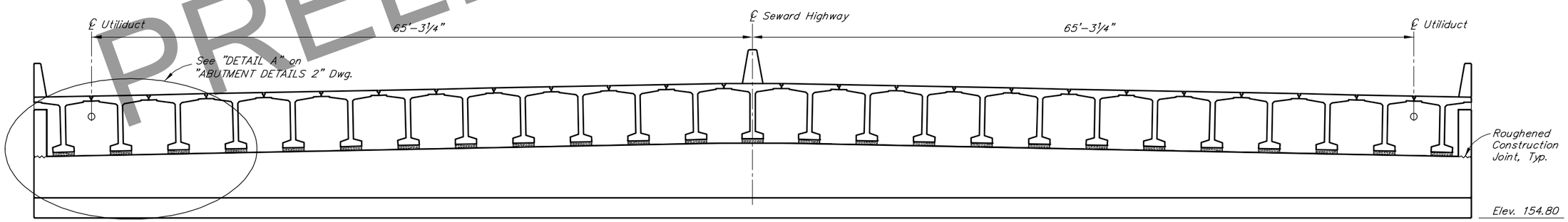
R:\cad\2239\2239-1-ABUTMENT 1 Fri, Apr/08/22 09:19am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N5	N24



PLAN

12 0 5 10
In. Feet



ELEVATION

12 0 5 10
In. Feet

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907–465–2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

ABUTMENT 2

BRIDGE NO. 2239

DWG. NO. 5

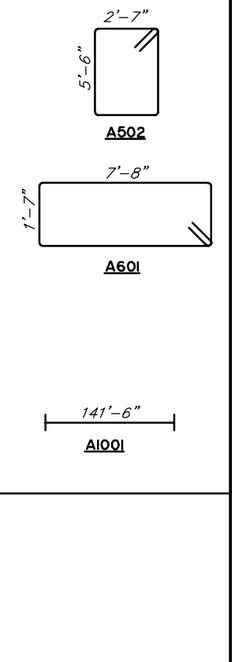
R:\cad\2239\2239-1-ABUTMENT 2 Fri, Apr/08/22 09:19am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N6	N24

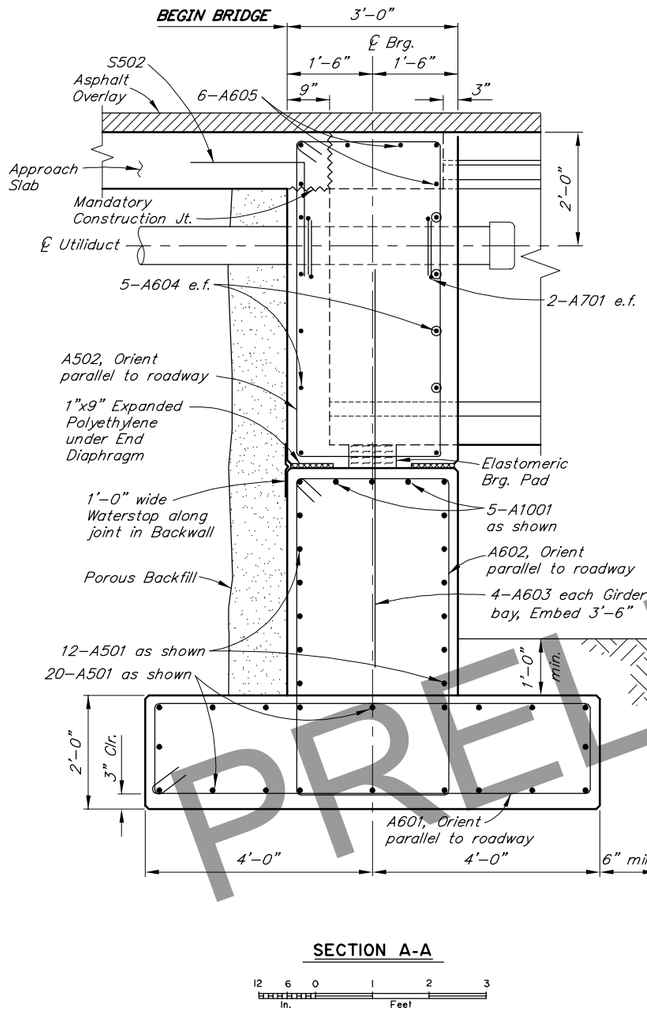
REINFORCING STEEL - ONE ABUTMENT

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
A501	M,S	5	32	141'-6"	---
A502	E	5	194	17'-1"	STIRRUP
A601		6	190	19'-10"	STIRRUP
A602		6	190	VARIES	STIRRUP
A603	E,A1	6	96	7'-0"	---
A604	E,M,S	6	10	139'-0"	---
A605	E,M,S	6	6	141'-6"	---
A701	E	7	8	3'-0"	BENT
A1001	H,M,S	10	5	141'-6"	HEADED

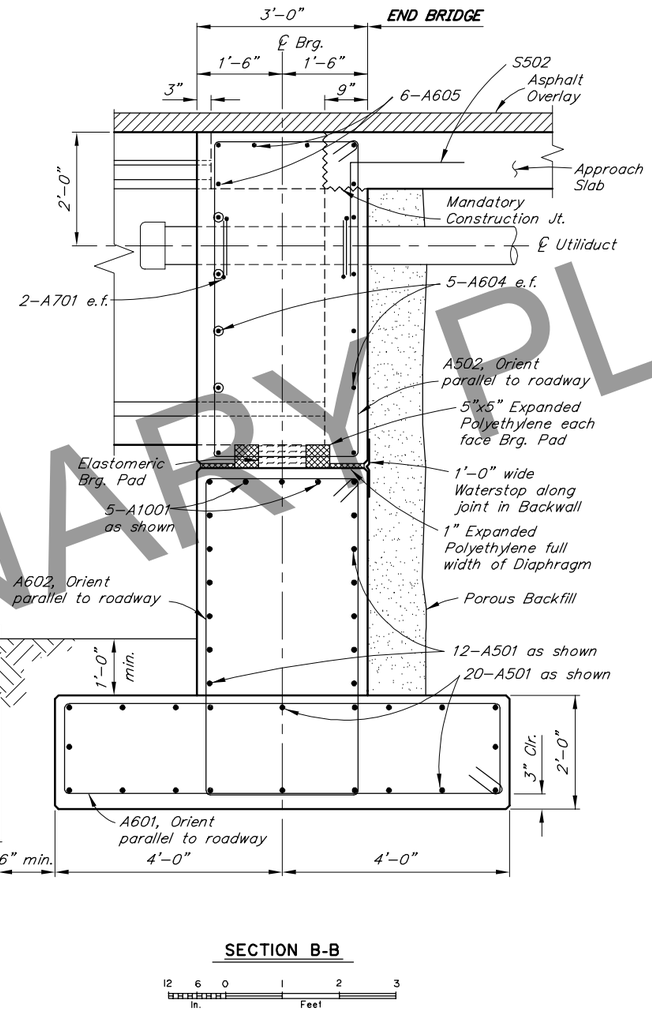
BENDING DIAGRAM



A1 – Abutment 1 only
E – Epoxy-Coated
H – Headed reinforcing steel
M – Match roadway cross slope
S – Length does not include splices



SECTION A-A



SECTION B-B

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C. Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

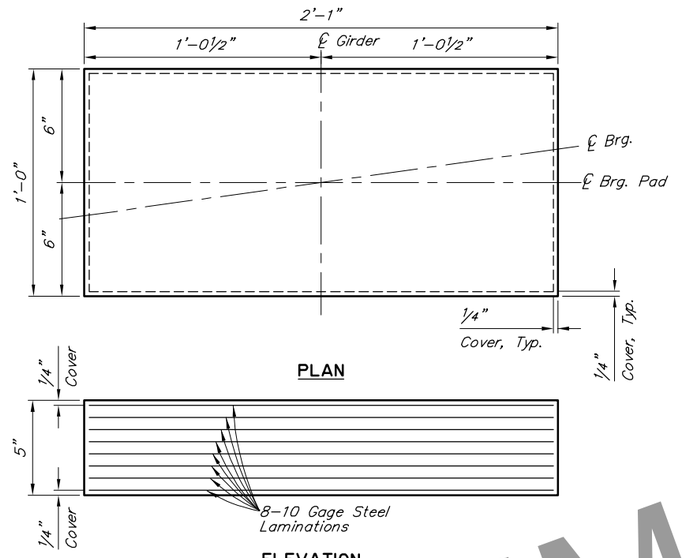
SEWARD HIGHWAY

ABUTMENT DETAILS 1

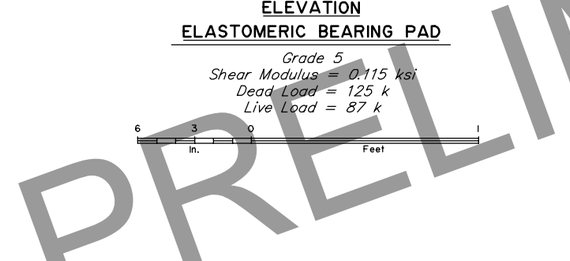
BRIDGE NO. 2239
DWG. NO. 6

R:\cad\2239\2239-1-ABUT DET Fri, Apr/08/22 09:20am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N7	N24



PLAN

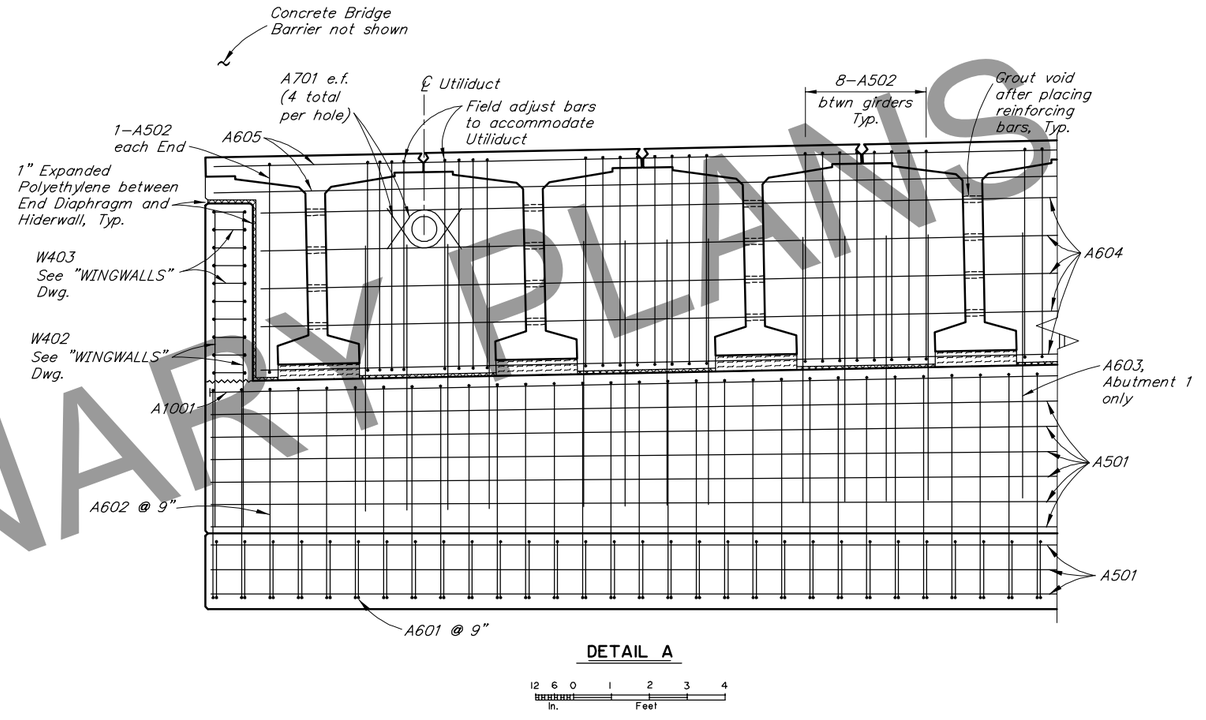


ELEVATION

ELASTOMERIC BEARING PAD

Grade 5
Shear Modulus = 0.115 ksi
Dead Load = 125 k
Live Load = 87 k

6 3 0 1
In. Feet



DETAIL A

12 6 0 1 2 3 4
In. Feet

DESIGNED BY: *Andrew Wells*	CHECKED: *Duane Davis*		
DRAWN BY: *Sam Sollie*	CHECKED: *Andrew Wells*		
QUANTITIES BY: *Andrew Wells*	CHECKED: *Duane Davis*		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-15677
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

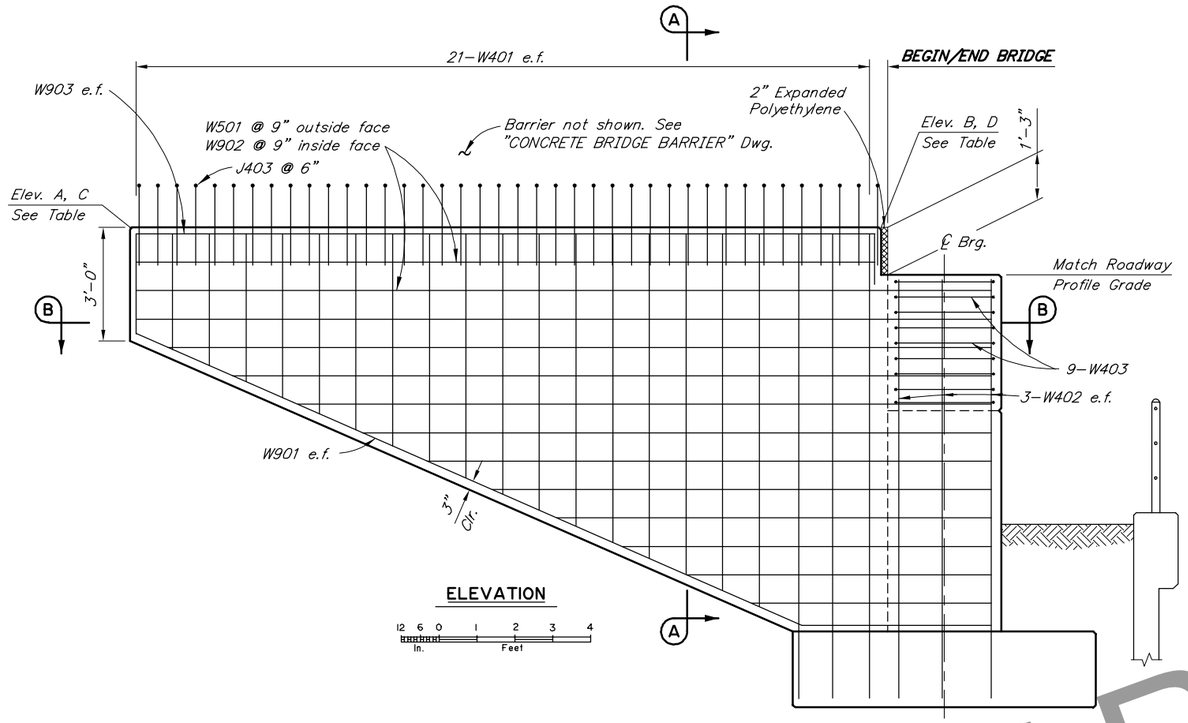
SEWARD HIGHWAY

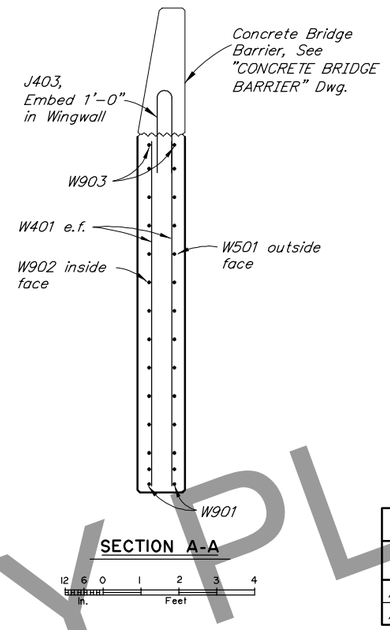
ABUTMENT DETAILS 2

BRIDGE NO. 2239
DWG. NO. 7

R:\cad\2239\2239-1-ABUT DET (2) Fri, Apr/08/22 09:20am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N8	N24





REINFORCING STEEL - ONE ABUTMENT

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
W401		4	84	VARIES	---	
W402		4	12	VARIES	---	
W403		4	18	7'–11"	STIRRUP	
W501		5	26	VARIES	---	
W901		9	4	VARIES	BENT	
W902		9	26	VARIES	---	
W903		9	4	VARIES	BENT	
J403	E	4	80	5'–3"	BENT	

5'–8" Min.
22'–8" Max.
W501, W902

2'–8"
8½"
11"
W403

19'–4" min.
19'–8" max.
1'–7"
W903

18'–10" min.
19'–3" max.
157°
5'–1"
W901

2'–7" min.
12'–3" max.
W401

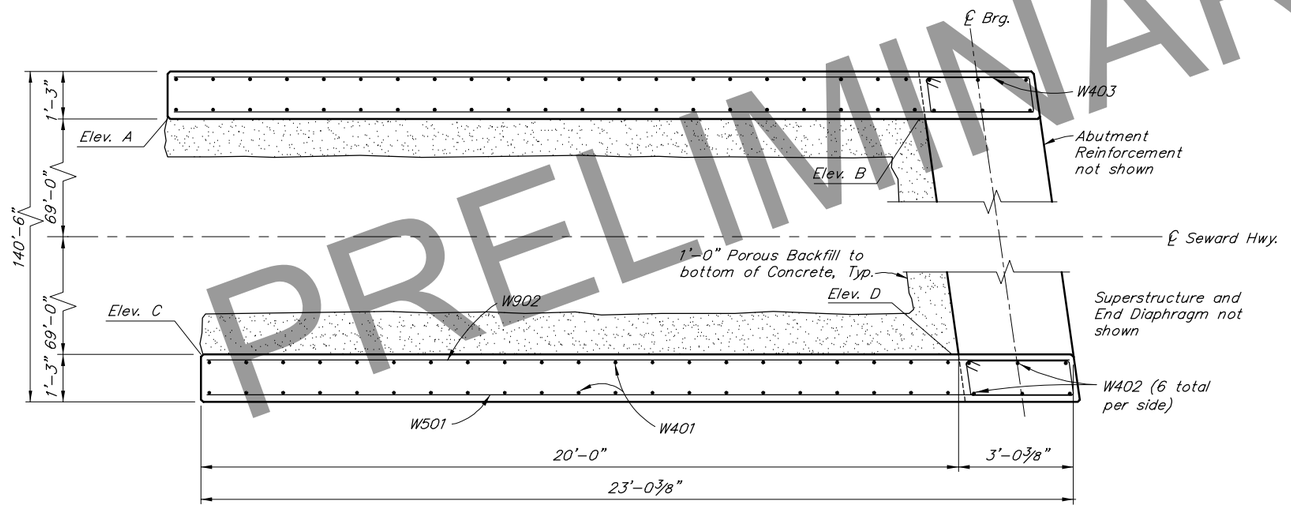
10'–10" min.
11'–0" max.
W402

R=2¼"
2'–6"
J403

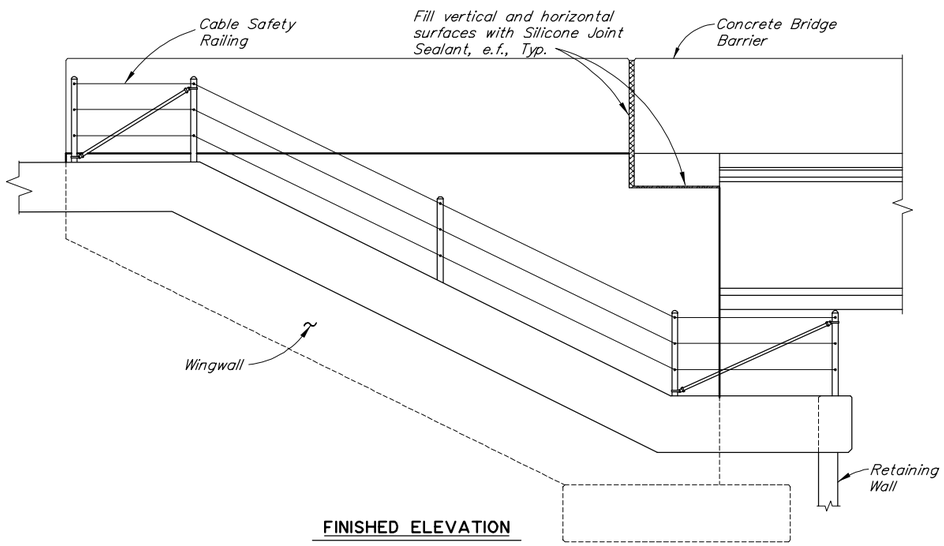
E – Epoxy–Coated

TOP OF WINGWALL ELEVATION TABLE (FT)

LOCATION	A LEFT SIDE	B LEFT SIDE	C RIGHT SIDE	D RIGHT SIDE
ABUTMENT 1	166.14	166.33	166.32	166.50
ABUTMENT 2	167.32	167.26	167.37	167.32



SECTION B-B
12 6 0 1 2 3 4
In. Feet



FINISHED ELEVATION
12 0 1 2 3 4
In. Feet

DESIGNED BY:	Andrew Wells	CHECKED:	Duane Davis
DRAWN BY:	Sam Sollie	CHECKED:	Andrew Wells
QUANTITIES BY:	Andrew Wells	CHECKED:	Duane Davis

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907–465–2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-15677
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

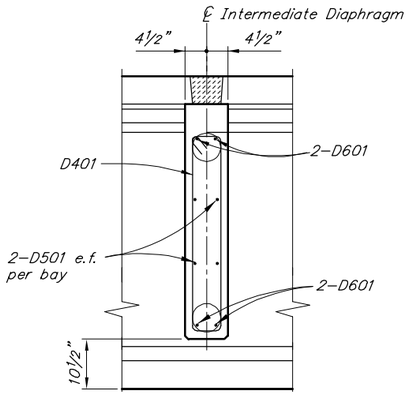
SEWARD HIGHWAY

WINGWALLS

BRIDGE NO. 2239
DWG. NO. 8

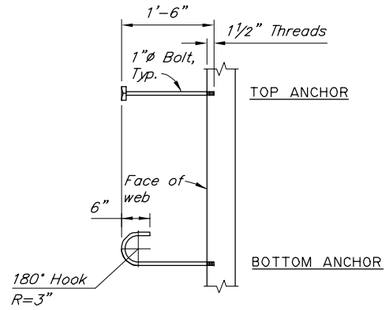
R:\cad\2239\2239-1-WINGWALLS Fri, Apr/08/22 09:20am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N9	N24



SECTION A-A

12 6 0 1 2 3
In. Feet



ASTM A307 GALVANIZED

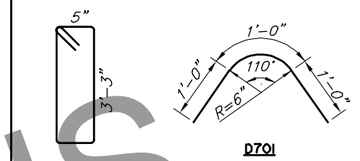
ANCHOR DETAIL

12 6 0 1 2 3
In. Feet

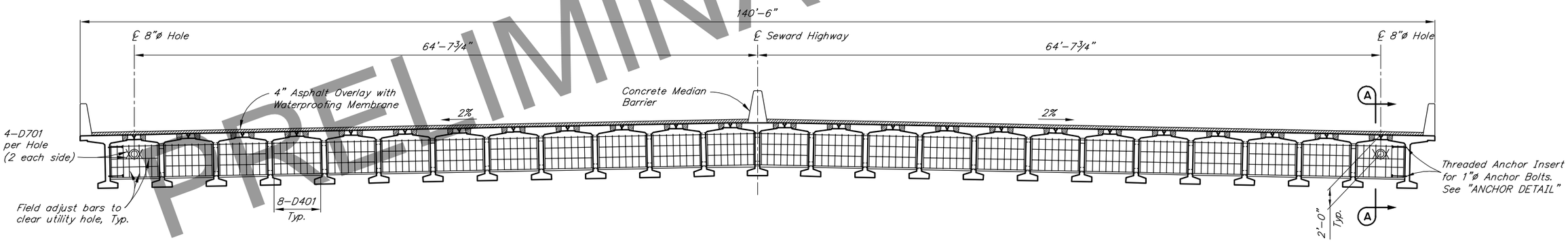
REINFORCING STEEL - ONE DIAPHRAGM

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
D401	E	4	192	8'–1"	STIRRUP
D501	E	5	96	4'–9"	---
D601	E,S	6	4	135'–4"	---
D701	E	7	8	3'–0"	BENT

BENDING DIAGRAM



E – Epoxy-Coated
S – Splices permitted. Length does not include splices.



TYPICAL SECTION

12 0 5 10
In. Feet

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907–465–2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-15677
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

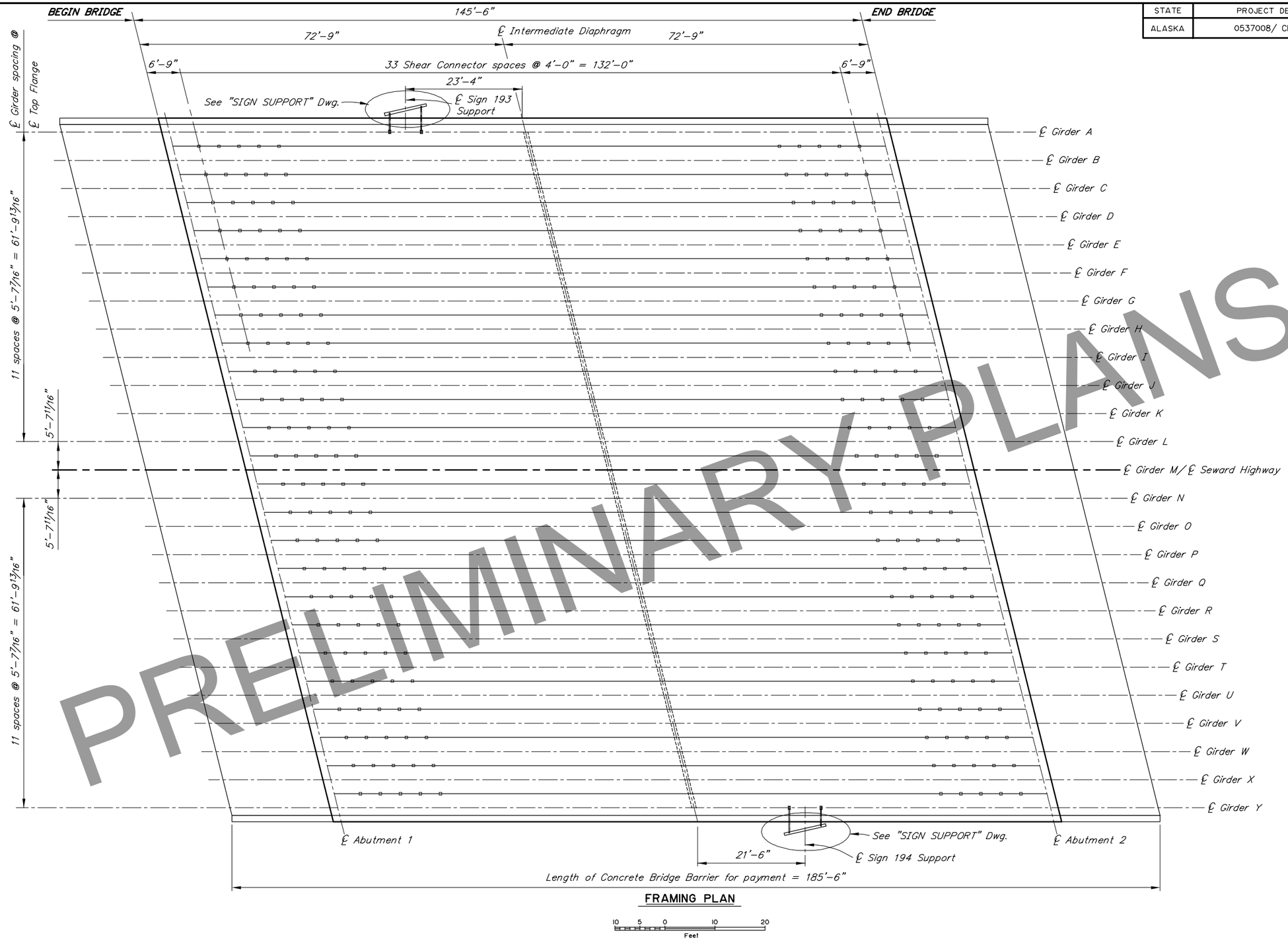
SEWARD HIGHWAY

INTERMEDIATE DIAPHRAGM

BRIDGE NO. 2239
DWG. NO. 9

R:\cad\2239\2239-1-TYP Fri, Apr/08/22 09:20am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N10	N24



FRAMING PLAN

10 5 0 10 20
Feet

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C. Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

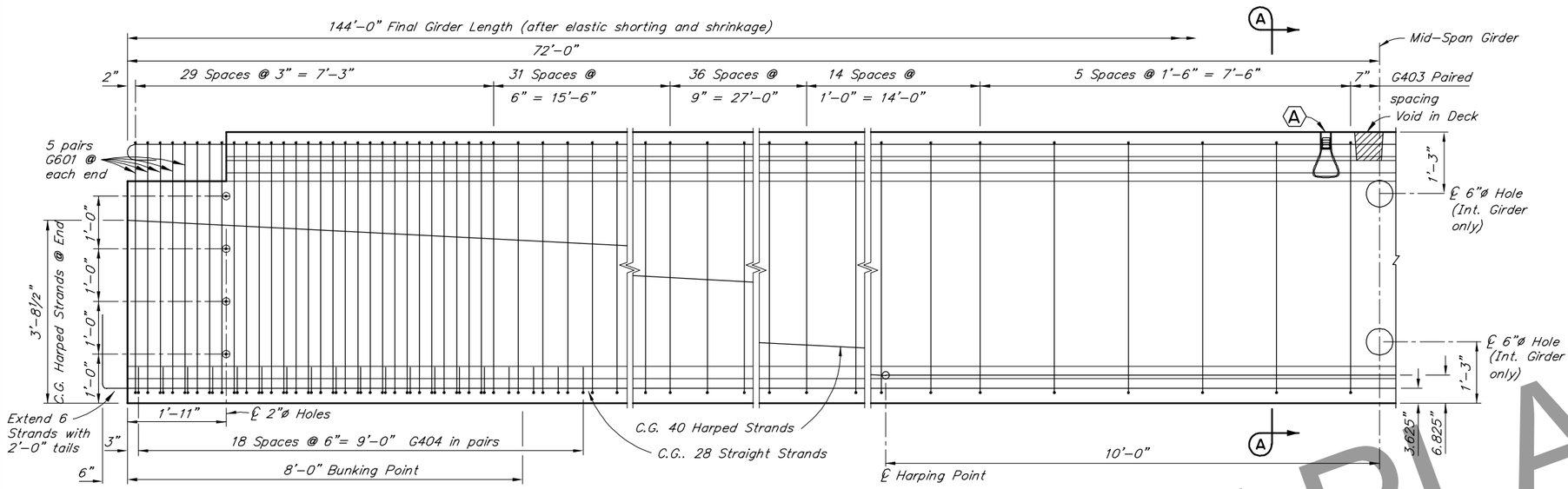
SEWARD HIGHWAY

FRAMING PLAN

BRIDGE NO. 2239
DWG. NO. 10

R:\cad\2239\2239-1-FRAMING Fri, Apr/08/22 09:20am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N11	N24



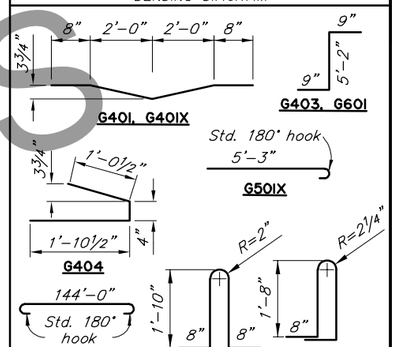
ELEVATION

12 6 0 1 2 3
In. Feet

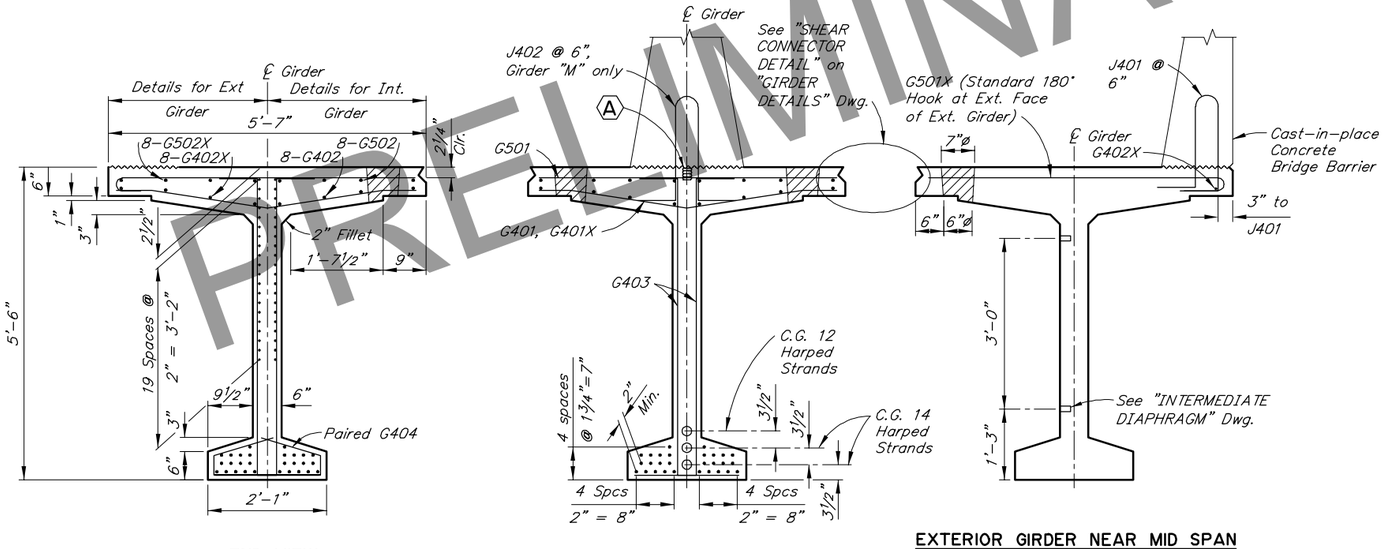
REINFORCING STEEL-ONE GIRDER

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
G401	E	4	214	5'-4"	BENT
G401X	E,X	4	243	5'-4"	BENT
G402	E,S	4	8	139'-9"	---
G402X	E,S,X	4	8	139'-9"	---
G403	E	4	444	6'-8"	BENT
G404	E	4	76	3'-3"	BENT
G501	E	5	214	5'-2"	---
G501X	E,X	5	243	5'-10"	BENT
G502	E,S	5	8	145'-2"	BENT
G502X	E,S	5	8	145'-2"	BENT
G601	E	6	20	6'-8"	BENT
J401	E,L	4	290	4'-11"	BENT
J402	E,L	4	290	5'-2"	BENT

BENDING DIAGRAM



E – Epoxy-Coated reinforcing steel
L – Ship 10 loose per exterior girder
S – Length does not include splices. Minimum lap splice length for splices shall be: 2'-0" for #4 bars, 2'-6" for #5 bars.
X – Exterior girders only



GIRDER NOTES:

Class P Concrete: at Stress Transfer.....f'ci = 6500 psi
at 28 Days.....f'c = 8000 psi

½"ø low-relaxation prestressing strands with an ultimate strength of 270 ksi and a cross sectional area of 0.153 in².

Steel stresses: Pretensioning – Jacking Stress 189 ksi
After initial losses 168 ksi
After all losses 139 ksi

One inch clear cover on reinforcing steel unless otherwise noted.

See "FRAMING PLAN" Dwg. for Shear Connector spacing.

See "SIGN SUPPORT" Dwg. for Sign Connection details.

Deflect forms to compensate for camber and roadway profile grade.

Galvanize structural steel embedded in girders except for shear connectors.

Ⓐ 1"X1'-0" Coil Anchor Insert for vertical adjustment of girders. Recess 2". Prevent concrete from filling hole.

Omit Shear Key, Shear Key Connector and Deck Void in exterior face of exterior girders.

Cast ends of girders plumb with respect to roadway grade. Install web holes and web anchor inserts parallel to ℄ bearing.

Finish top flange with light broom. Roughen the surface under the Barrier.

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

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BRIDGE SECTION
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STATE OF ALASKA 49TH
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04-08-2022
No. CE-156776
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

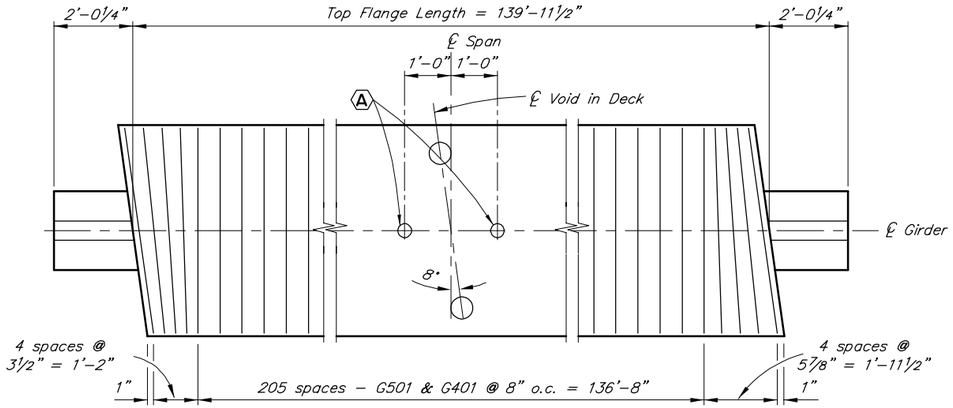
SEWARD HIGHWAY

GIRDERS

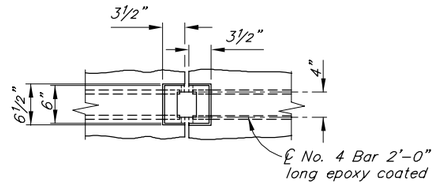
BRIDGE NO. 2239
DWG. NO. 11

R:\cad\2239\2239-1-GIRDERS Fri, Apr/08/22 09:20am

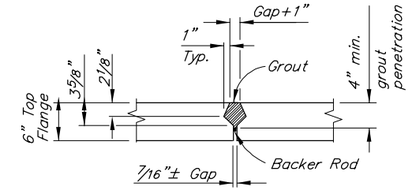
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N12	N24

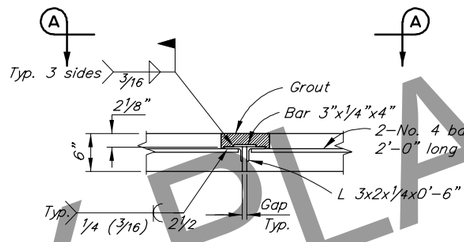


PLAN VIEW - INTERIOR GIRDERS



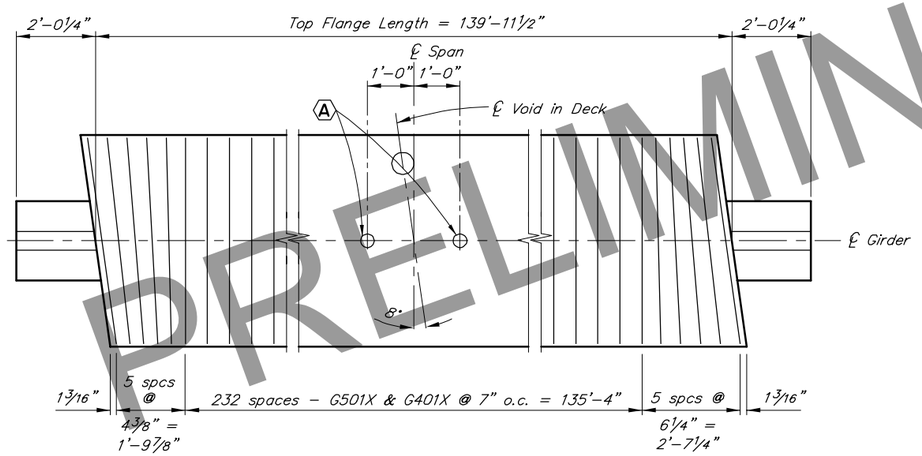
VIEW A-A





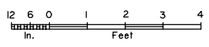
SHEAR CONNECTOR DETAIL

SHEAR KEY DETAIL



PLAN VIEW - EXTERIOR GIRDERS

(Girder Y shown, Girder A opposite)



DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

GIRDER DETAILS

BRIDGE NO. 2239

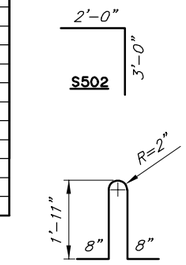
DWG. NO. 12

R:\cad\2239\2239-1-GIRDER DETAILS Fri, Apr/08/22 09:20am

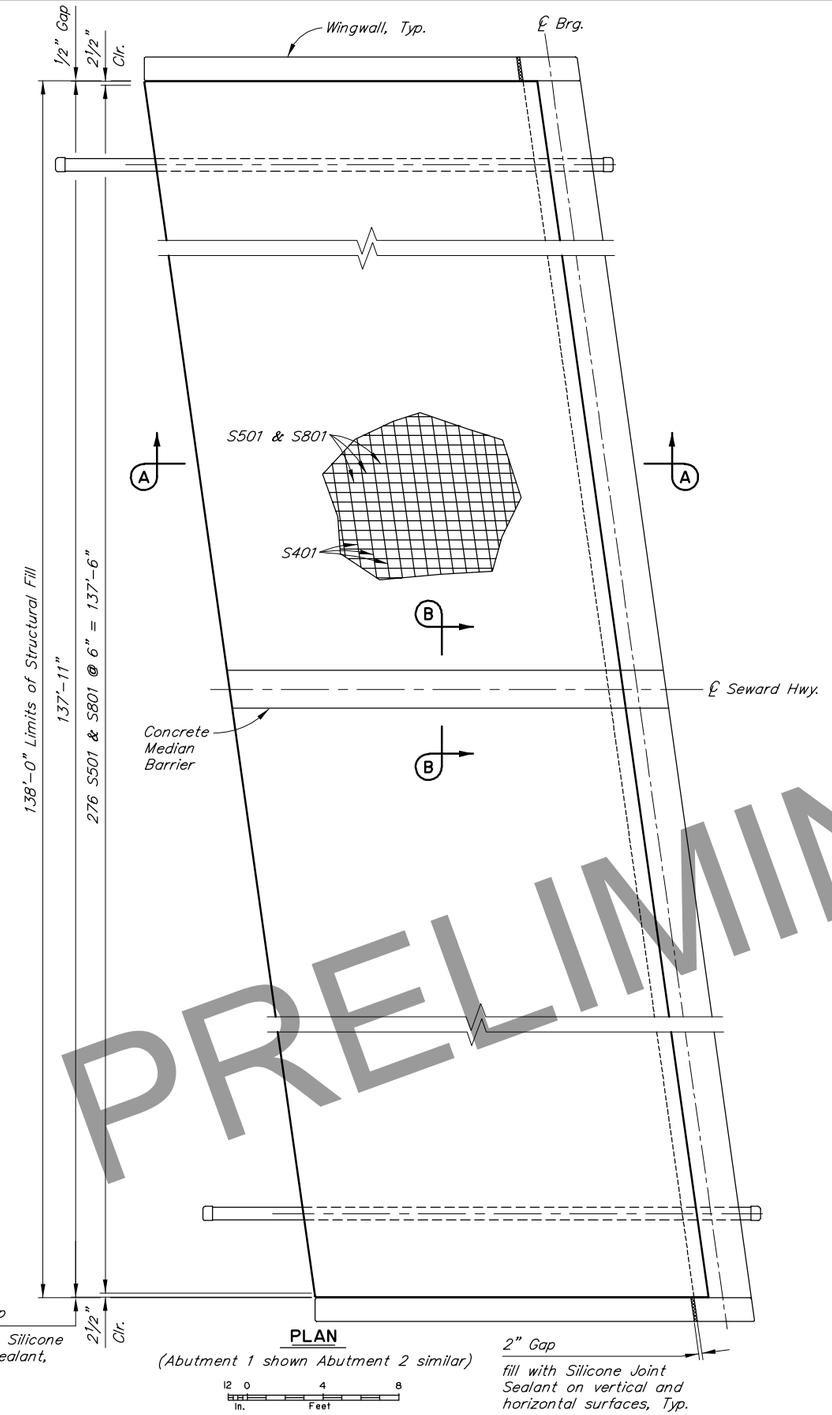
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N13	N24

REINFORCING STEEL - ONE APPROACH SLAB

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
S401	E,M,S	4	64	138'-11"	---	
S501	E	5	276	20'-5"	---	
S502	E	5	138	5'-0"	BENT	
S801	E	8	276	20'-5"	---	
J407	E	4	40	5'-4"	BENT	



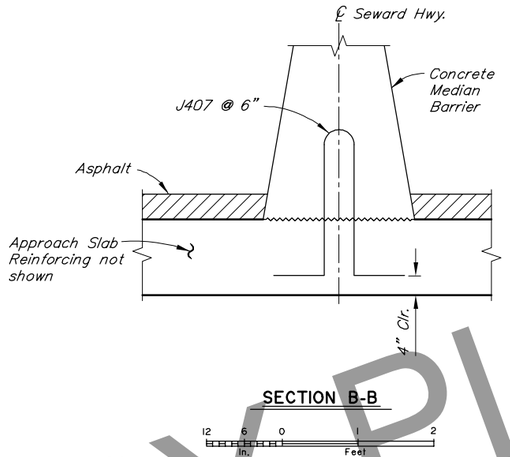
E – Epoxy-Coated
M – Match roadway cross slope
S – Length does not include splices



PLAN

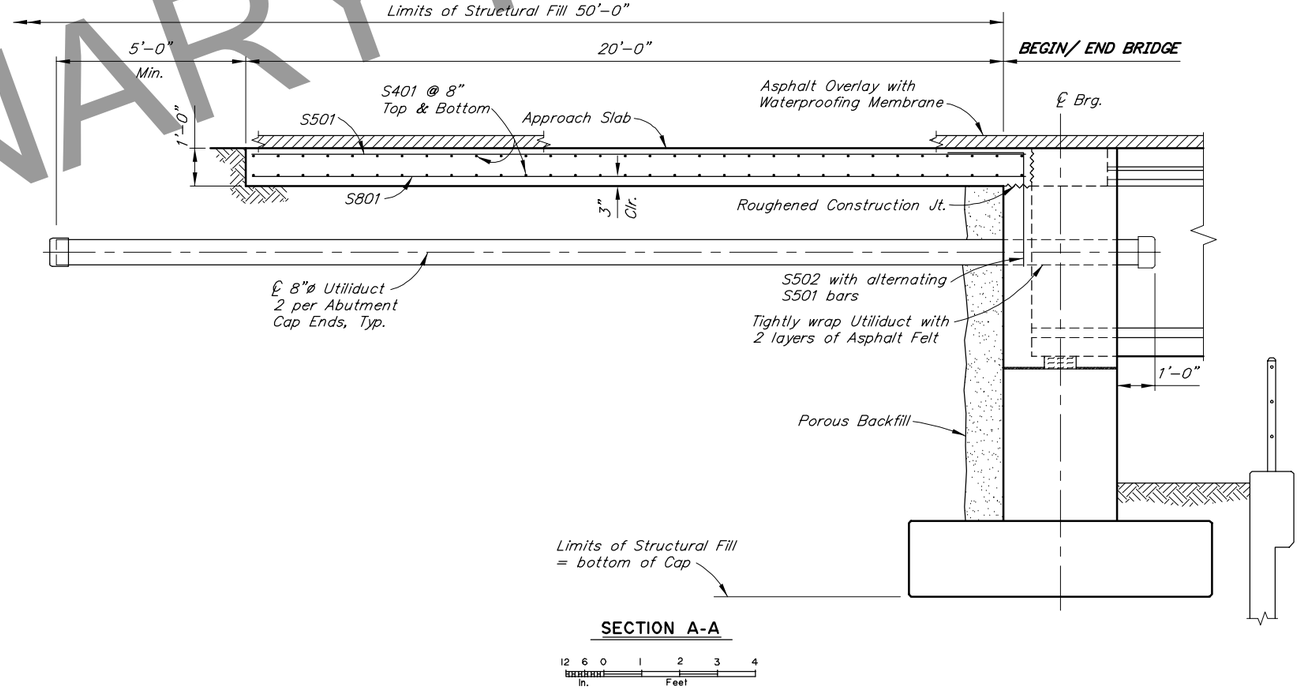
(Abutment 1 shown Abutment 2 similar)

12 0 4 8
In. Feet



SECTION B-B

12 6 0 1 2
In. Feet



SECTION A-A

12 6 0 1 2 3 4
In. Feet

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis	
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells	
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-15677
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

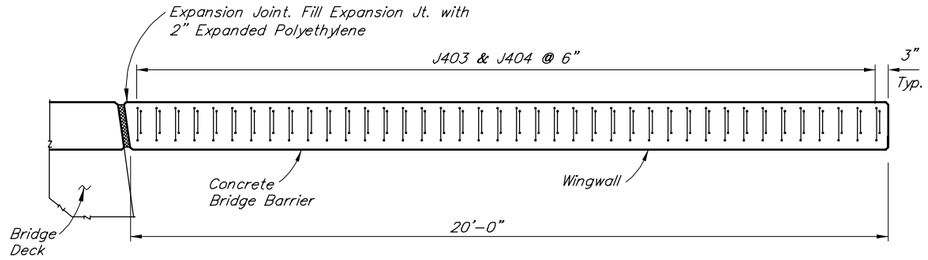
SEWARD HIGHWAY

APPROACH SLABS

BRIDGE NO. 2239
DWG. NO. 13

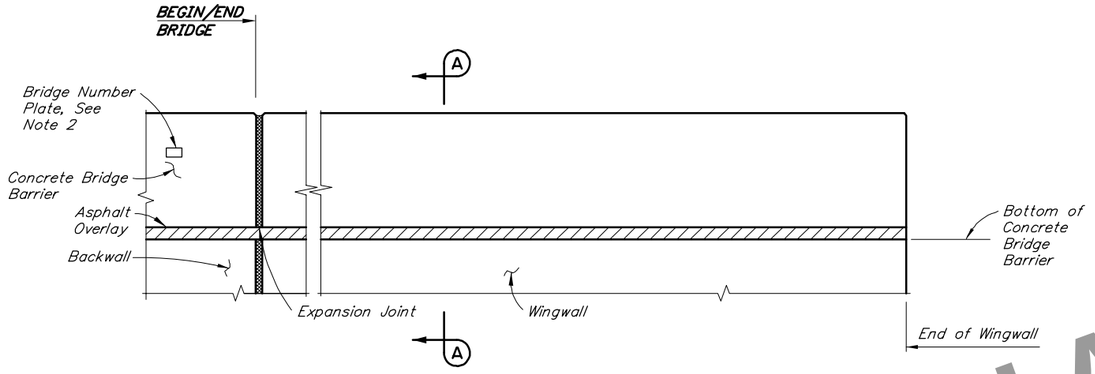
R:\cad\2239\2239-1-APPROACH Fri, Apr/08/22 09:28am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N14	N24



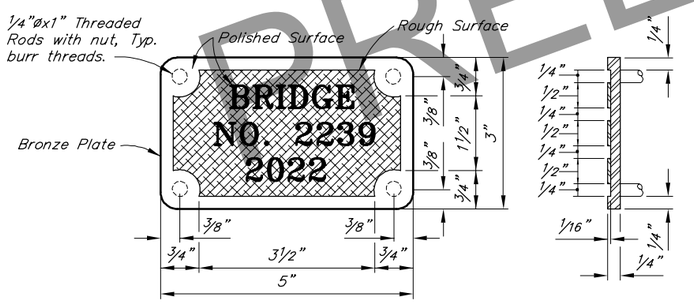
TYPICAL CONCRETE BRIDGE BARRIER TRANSITION - PLAN

12 6 0 1 2 3 4
In. Feet



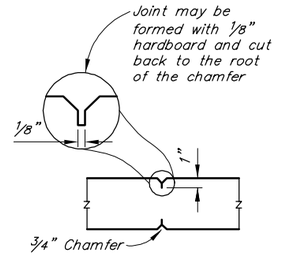
CONCRETE BRIDGE BARRIER TRANSITION - ELEVATION

12 6 0 1 2 3 4
In. Feet



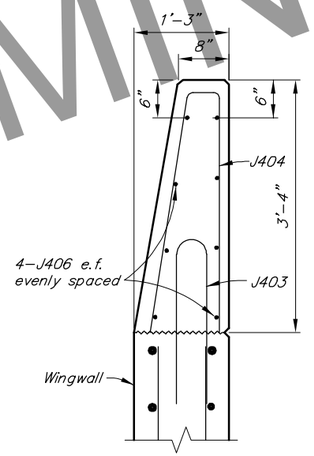
BRONZE BRIDGE NO. PLATE

No Scale



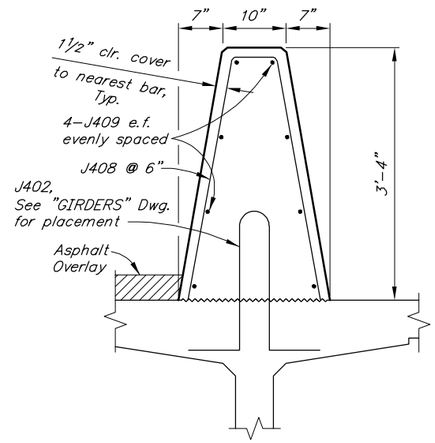
WEAKENED PLANE JOINT

Locate at 1/4, 1/2, 3/4 Span
No Scale



SECTION A-A

12 6 0 1 2
In. Feet

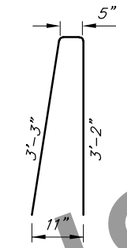


CONCRETE MEDIAN BARRIER

12 6 0 1 2
In. Feet

REINFORCING STEEL - ALL BARRIERS

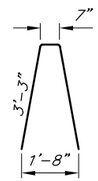
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
J404	E	4	742	6'-10"	BENT	
J405	E,S	4	16	145'-2"	---	
J406	E	4	32	VARIES	---	
J408	E	4	371	7'-1"	BENT	
J409	E,S	4	8	185'-2"	---	



J404

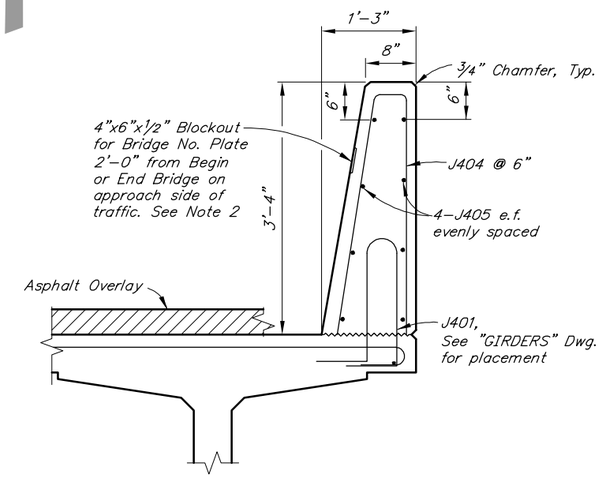
19'-4" min.
19'-8" max.

J406



J408

E – Epoxy-Coated
S – Length does not include splices



CONCRETE BRIDGE BARRIER

12 6 0 1 2
In. Feet

NOTES

1. Construct concrete bridge barrier plumb.
2. Furnish and install two bronze bridge number plates. Use "CENTURY" type style. Studs to be 1/4"ø bronze threaded rods brazed to back of plate. Epoxy bond rods into 3/8"ø holes in concrete bridge barrier blockout. Use epoxy suitable for exterior application and compatible with materials to be bonded. Follow epoxy manufacturer's instructions.

DESIGNED BY:	Andrew Wells	CHECKED:	Duane Davis
DRAWN BY:	Sam Sollie	CHECKED:	Andrew Wells
QUANTITIES BY:	Andrew Wells	CHECKED:	Duane Davis

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
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Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

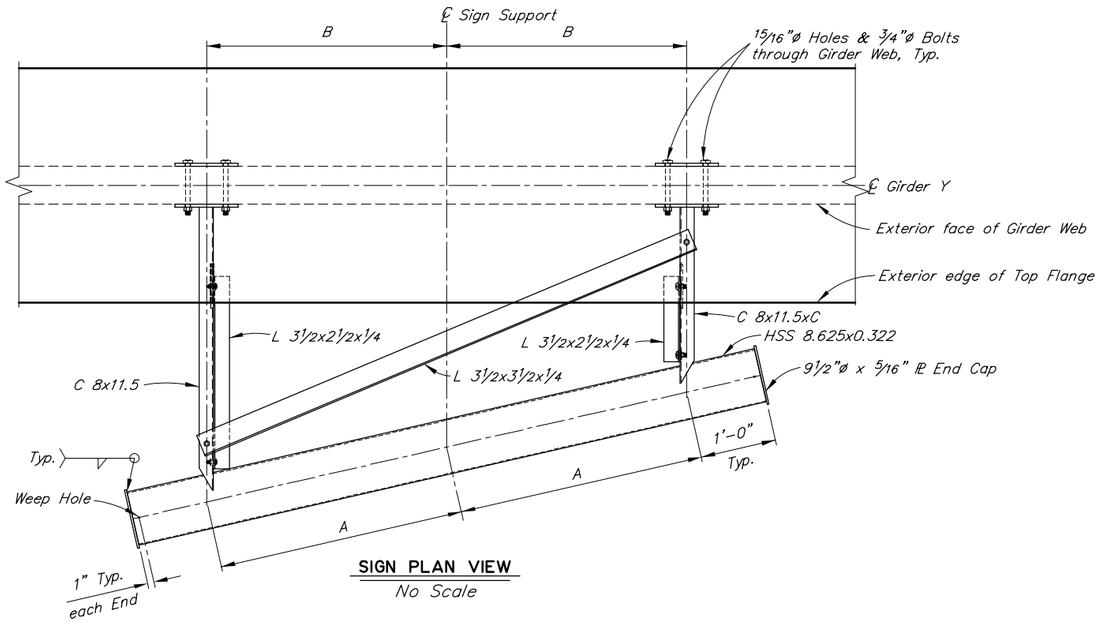
SEWARD HIGHWAY

CONCRETE BRIDGE BARRIER

BRIDGE NO. 2239
DWG. NO. 14

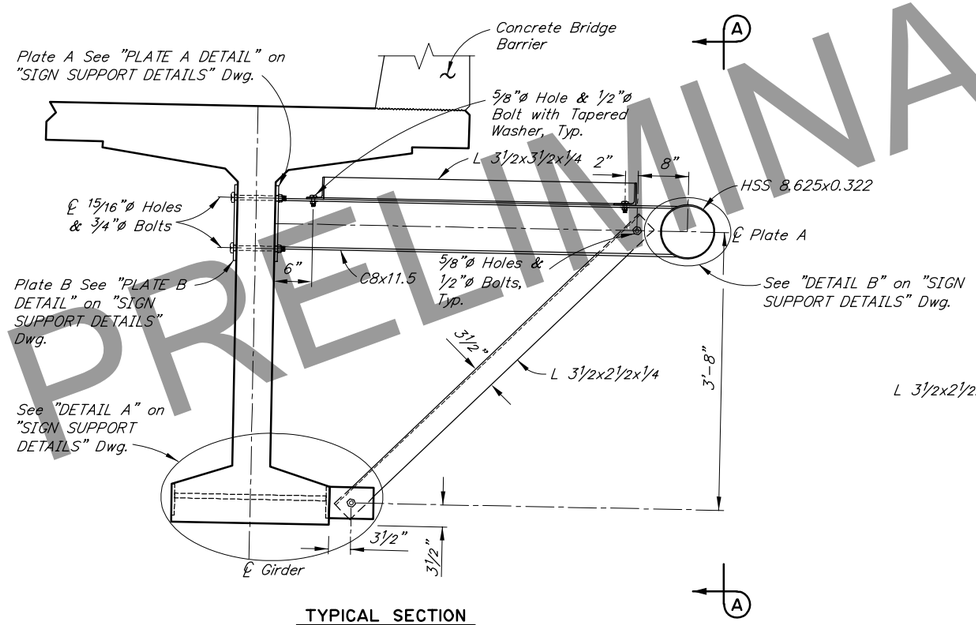
R:\cad\2239\2239-1-BARRIER Fri, Apr/08/22 09:20am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N15	N24

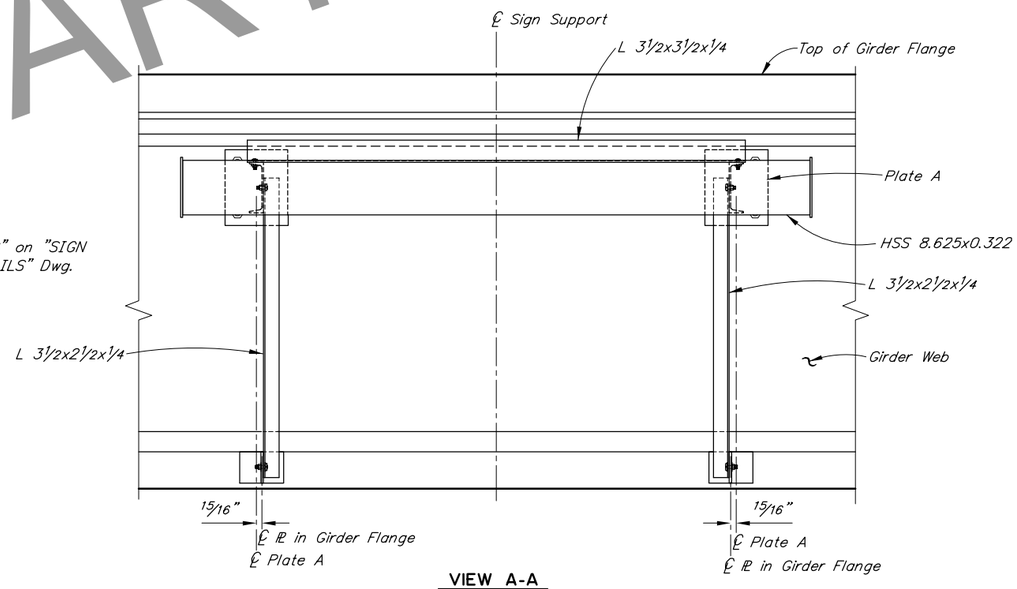


SIGN PLAN VIEW
No Scale

SIGN SUPPORT DIMENSION TABLE			
LOCATION	A	B	C
SIGN 193	3'-3"	3'-2"	3'-7⅛"
SIGN 194	4'-9"	4'-8⅛"	3'-7⅛"



TYPICAL SECTION
(NOTE: Girder Y shown, Girder A Similar)
No Scale



VIEW A-A
No Scale

NOTES:

Provide ¾" minimum edge distance at bolt holes unless noted otherwise.

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-15677
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

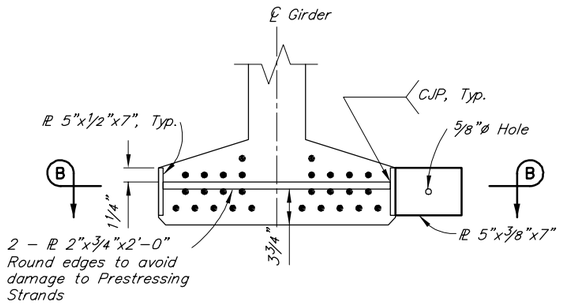
SEWARD HIGHWAY

SIGN SUPPORT

BRIDGE NO. 2239
DWG. NO. 15

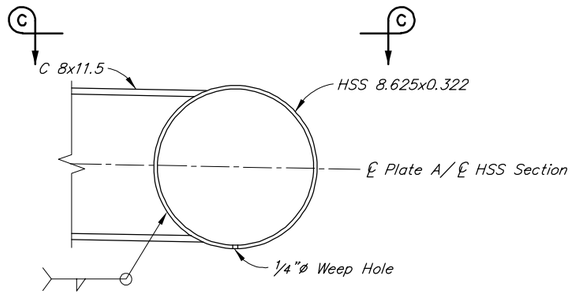
R:\cad\2239\2239-1-SIGN Fri, Apr/08/22 09:28am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2022	N16	N24



DETAIL A

12 6 0 1
In. Feet



DETAIL B

6 3 0 1
In. Feet

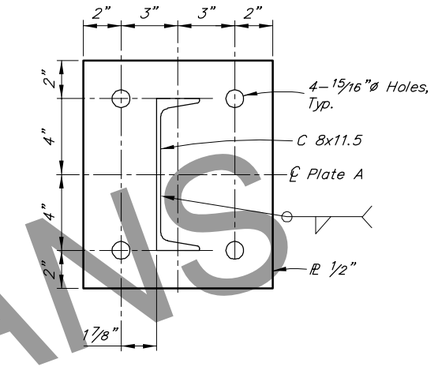
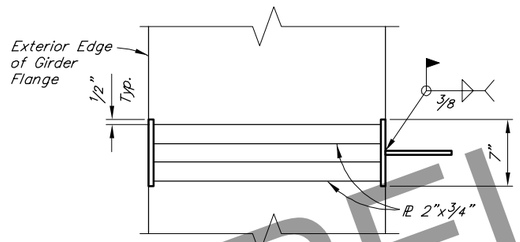


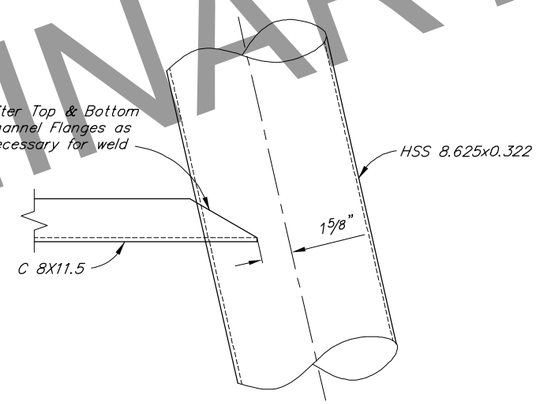
PLATE A DETAIL

6 3 0 1
In. Feet



SECTION B-B

12 6 0 1
In. Feet



VIEW C-C

6 3 0 1
In. Feet

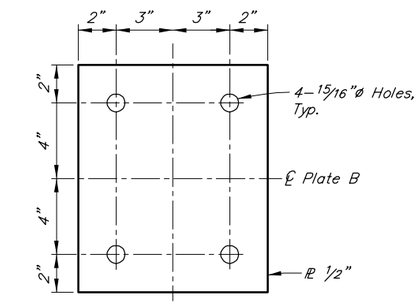


PLATE B DETAIL

6 3 0 1
In. Feet

R:\cad\2239\2239-1-SIGN (2) Fri, Apr/08/22 09:20am

DESIGNED BY: Andrew Wells	CHECKED: Duane Davis		
DRAWN BY: Sam Sollie	CHECKED: Andrew Wells		
QUANTITIES BY: Andrew Wells	CHECKED: Duane Davis		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

STATE OF ALASKA 49TH
Andrew C.Wells
04-08-2022
No. CE-156778
REGISTERED PROFESSIONAL ENGINEER

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

SIGN SUPPORT DETAILS

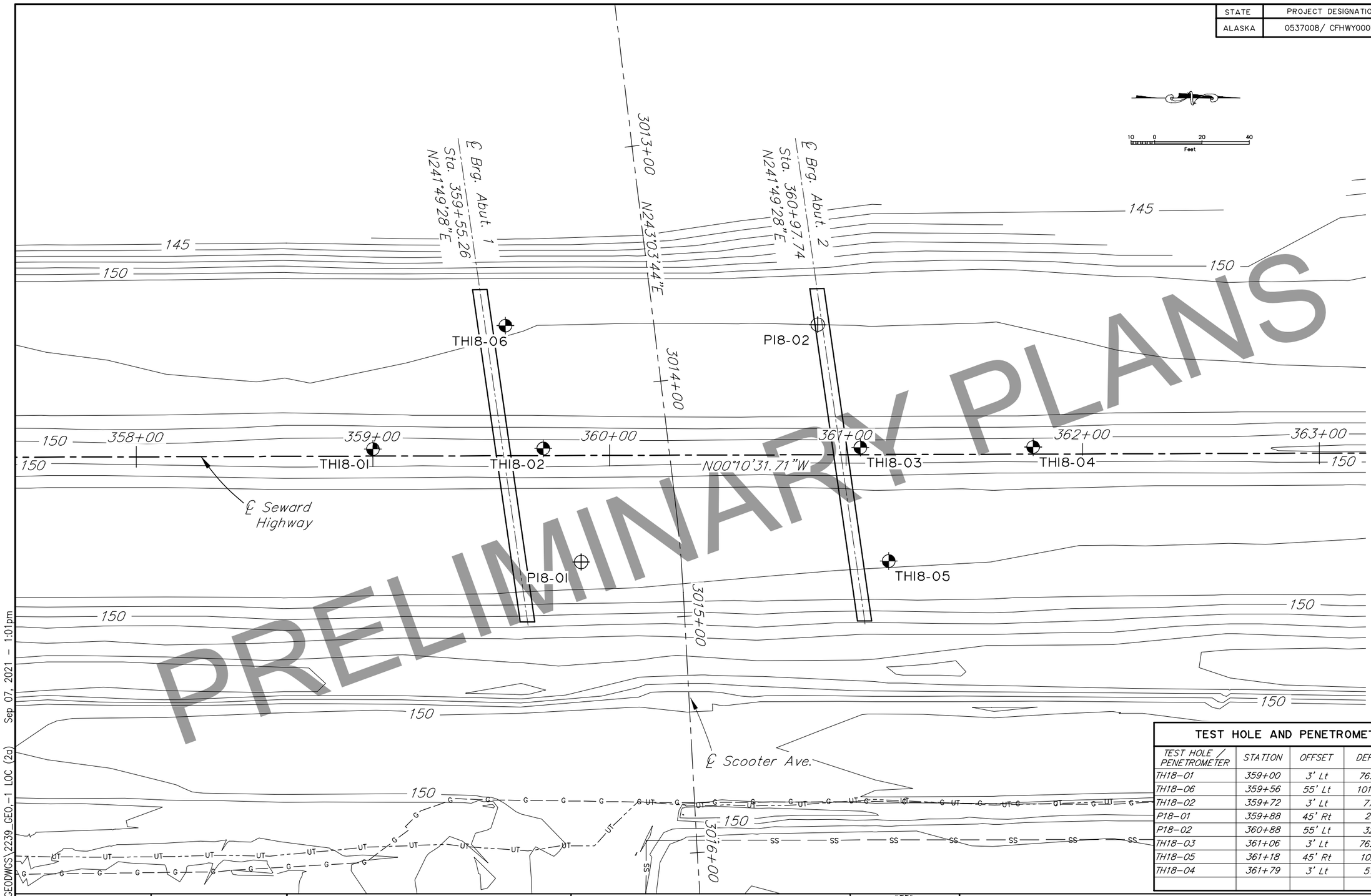
BRIDGE NO. 2239
DWG. NO. 16

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N17	N24

LEGEND

- TEST HOLE
- PENETROMETER

10 0 20 40
Feet



PRELIMINARY PLANS

TEST HOLE AND PENETROMETER LOCATIONS

TEST HOLE / PENETROMETER	STATION	OFFSET	DEPTH	LOCATION
TH18-01	359+00	3' Lt	76.5'	Approach 1
TH18-06	359+56	55' Lt	101.5'	Abutment 1
TH18-02	359+72	3' Lt	77'	Abutment 1
P18-01	359+88	45' Rt	28	Abutment 1
P18-02	360+88	55' Lt	32'	Abutment 2
TH18-03	361+06	3' Lt	76.5'	Abutment 2
TH18-05	361+18	45' Rt	102'	Abutment 2
TH18-04	361+79	3' Lt	51'	Abutment 2

DESIGNED BY: D. Hernstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH David A. Hernstreet No. CE 9800 REGISTERED PROFESSIONAL ENGINEER 9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

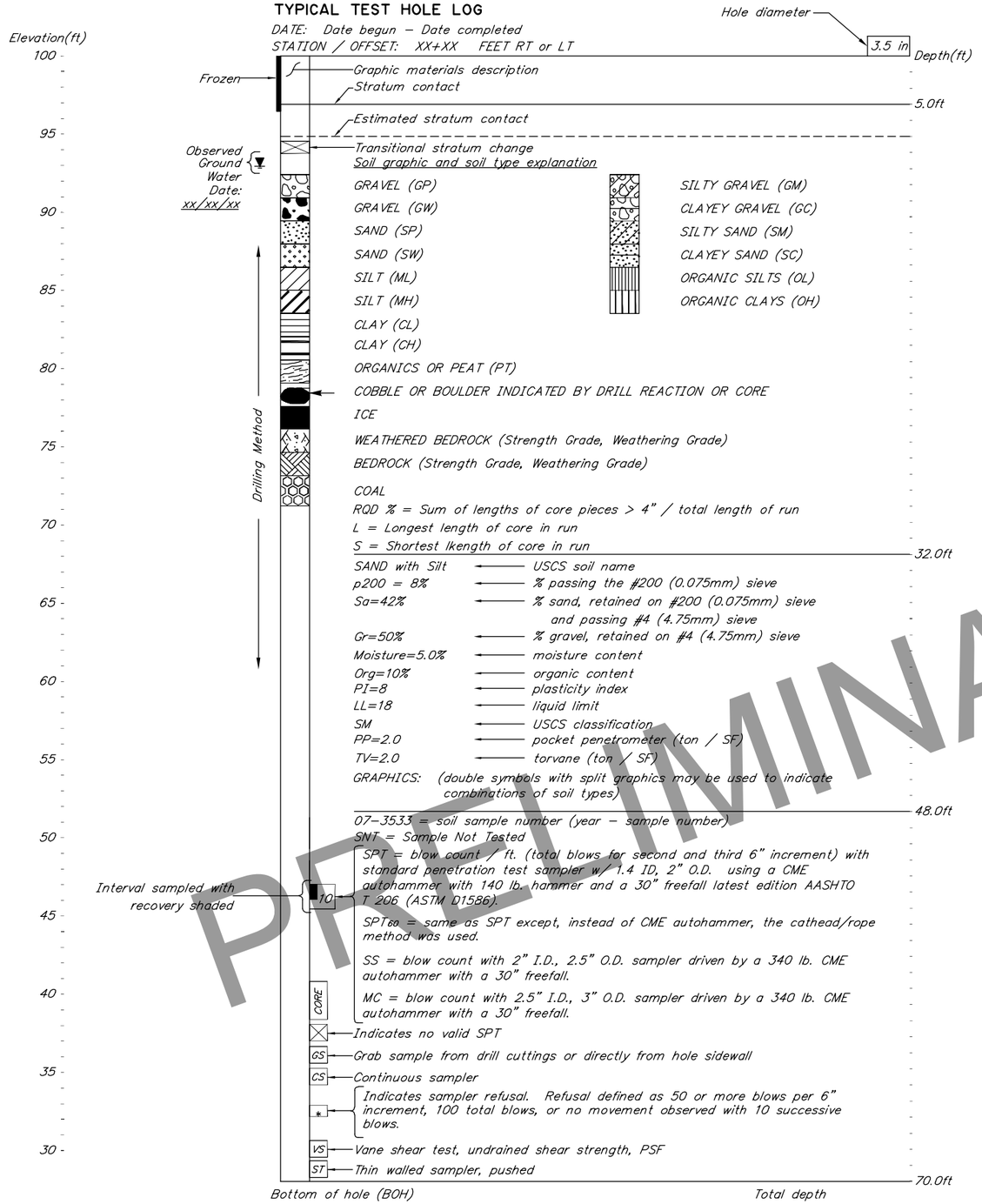
TEST HOLE & PENETROMETER LOCATION

BRIDGE NO. 2239
DWG. NO. 17

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-1 LOC (2a) Sep 07, 2021 - 1:01pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N18	N24

TYPICAL TEST HOLE LOG

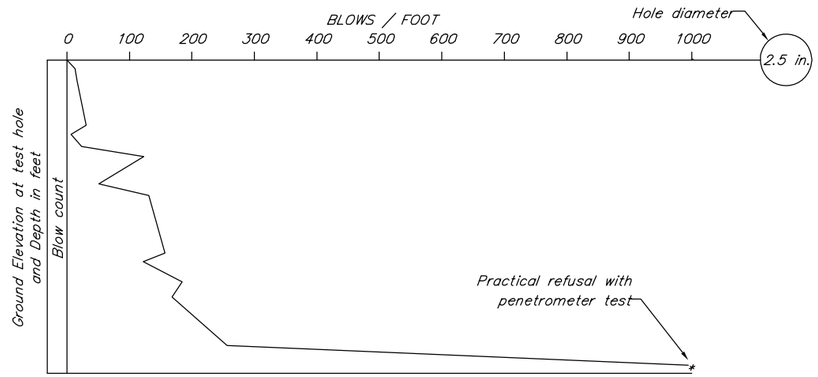


NOTES:

1) The test hole logs depicted graphically in these drawings are distillations of the original field logs, based on post-field investigation review and analysis. These drafted logs include changes made to field descriptions based upon laboratory test data, review and analysis. Detailed field observations of rock and soil sampled during the drilling program are not reproduced in the drafted logs.
2) Description of soils follows Alaska Geotechnical Procedures manual. Classification of soils follows Unified Soil Classification System (ASTM D2487).
3) The test hole logs from these sheets are an integral part of the Foundation Geology Report. See Construction Contract Bid Documents – invitation to bid/notice to bidders. Important information about the test hole logs and the foundation investigation is contained in the report. The test hole logs are not severable from and cannot be completely and correctly interpreted without reference to the Foundation Geology Report.

TYPICAL PENETROMETER TEST LOG

DATE: Date begun – Date completed
STATION / OFFSET: XX+XX / RT or LT (feet)



Bottom of hole (BOH)

NOTES:
Penetrometer W/2.5" O.D., with a CME AUTOMATIC Hammer using a 340 lb. weight and a 30" freefall

DESIGNED BY: D. Hemstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hemstreet
No. CE 9800
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

TEST HOLE & PENETROMETER LEGEND

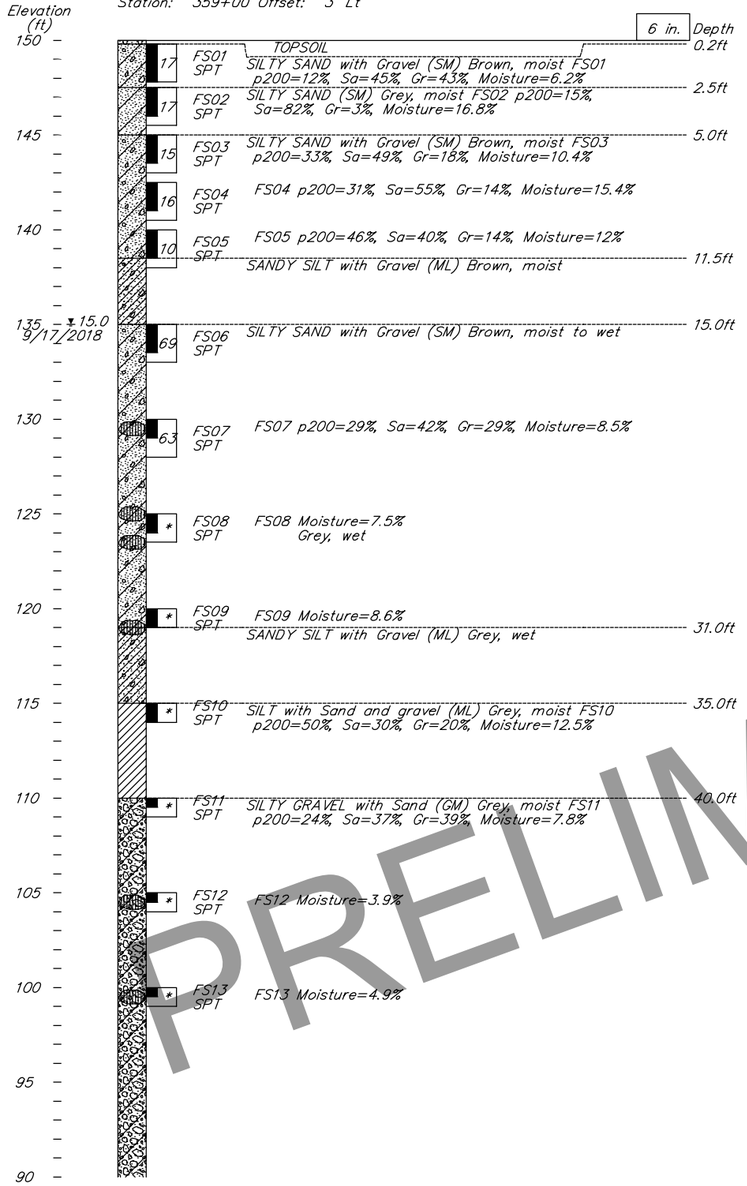
BRIDGE NO. 2239
DWG. NO. 18

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-2 TYP Sep 07, 2021 - 1:01pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N19	N24

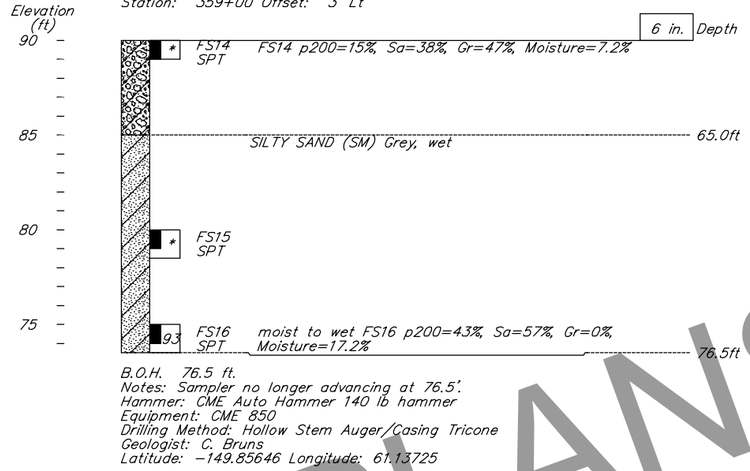
TH18-01

Date: 9/17/18 – 9/19/18
Station: 359+00 Offset: 3' Lt



TH18-01 (con't)

Date: 9/17/18 – 9/19/18
Station: 359+00 Offset: 3' Lt



B.O.H. 76.5 ft.
Notes: Sampler no longer advancing at 76.5'.
Hammer: CME Auto Hammer 140 lb hammer
Equipment: CME 850
Drilling Method: Hollow Stem Auger/Casing Tricone
Geologist: C. Bruns
Latitude: −149.85646 Longitude: 61.13725

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-3 TH18-01 Sep 07, 2021 - 1:01pm

DESIGNED BY: D. Hemstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hemstreet
No. CE 9800
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

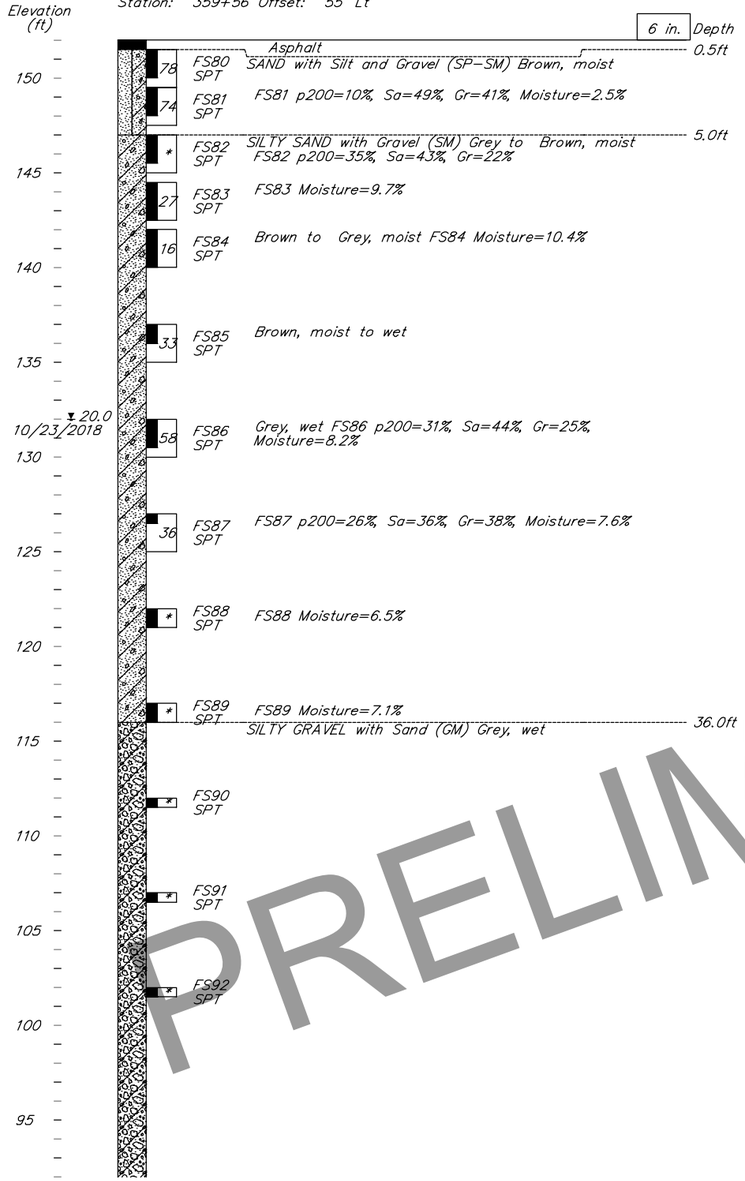
TEST HOLE & PENETROMETER LOGS

BRIDGE NO. 2239
DWG. NO. 19

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N20	N24

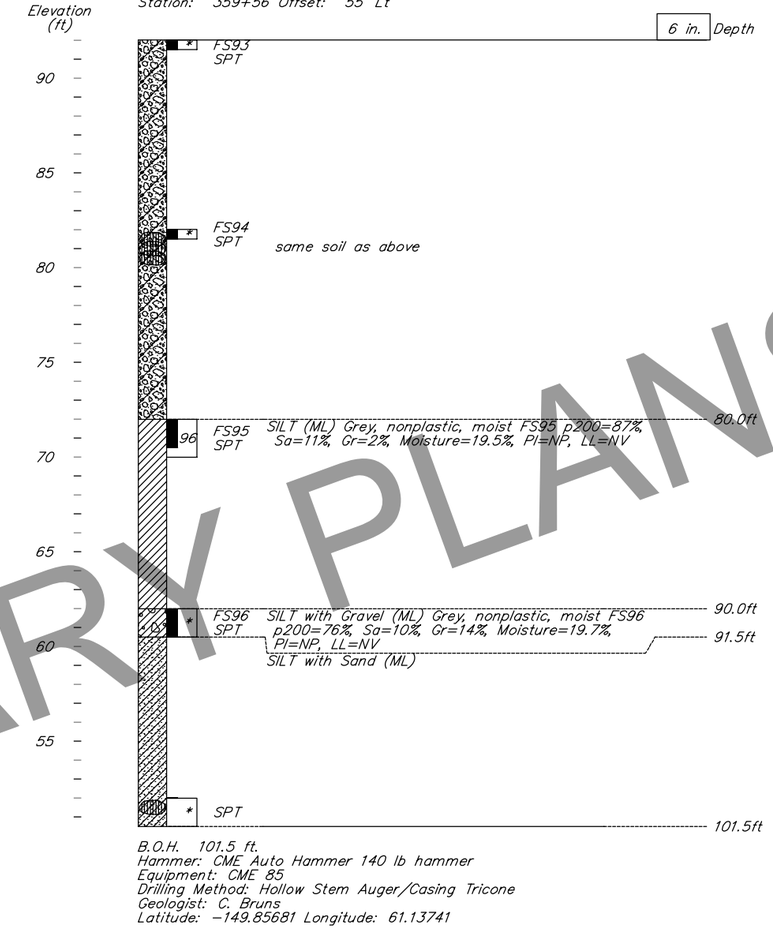
TH18-06

Date: 10/23/18 – 10/26/18
Station: 359+56 Offset: 55' Lt



THI8-06 (con't)

Date: 10/23/18 – 10/26/18
Station: 359+56 Offset: 55' Lt



B.O.H. 101.5 ft.
Hammer: CME Auto Hammer 140 lb hammer
Equipment: CME 85
Drilling Method: Hollow Stem Auger/Casing Tricone
Geologist: C. Bruns
Latitude: –149.85681 Longitude: 61.13741

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-4 TH18-06 Sep 07, 2021 – 1:01pm

DESIGNED BY: D. Hernstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hernstreet
No. CE 9690
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

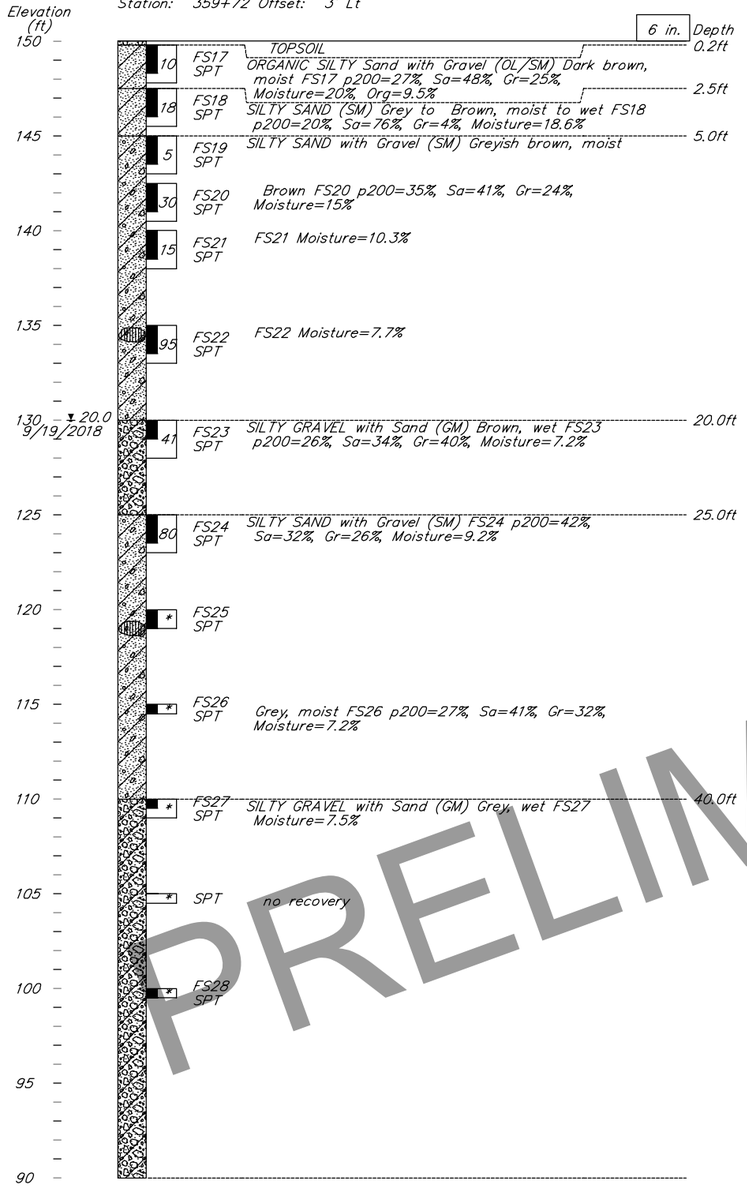
TEST HOLE & PENETROMETER LOGS

BRIDGE NO. 2239
DWG. NO. 20

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N21	N24

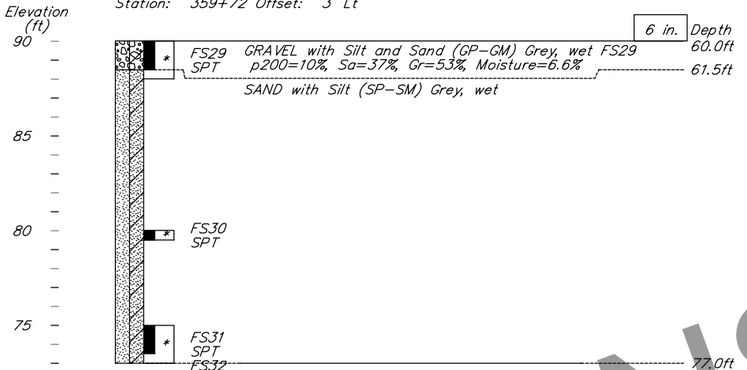
TH18-02

Date: 9/19/18 – 9/21/18
Station: 359+72 Offset: 3' Lt



TH18-02 (con't)

Date: 9/19/18 – 9/21/18
Station: 359+72 Offset: 3' Lt



B.O.H. 77 ft.
Hammer: CME Auto Hammer 140 lb hammer
Equipment: CME 850
Drilling Method: Hollow Stem Auger/Casing Tricone
Geologist: C. Bruns
Latitude: -149.85647 Longitude: 61.13745

DESIGNED BY: D. Hemstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hemstreet
No. CE 9800
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

TEST HOLE & PENETROMETER LOGS

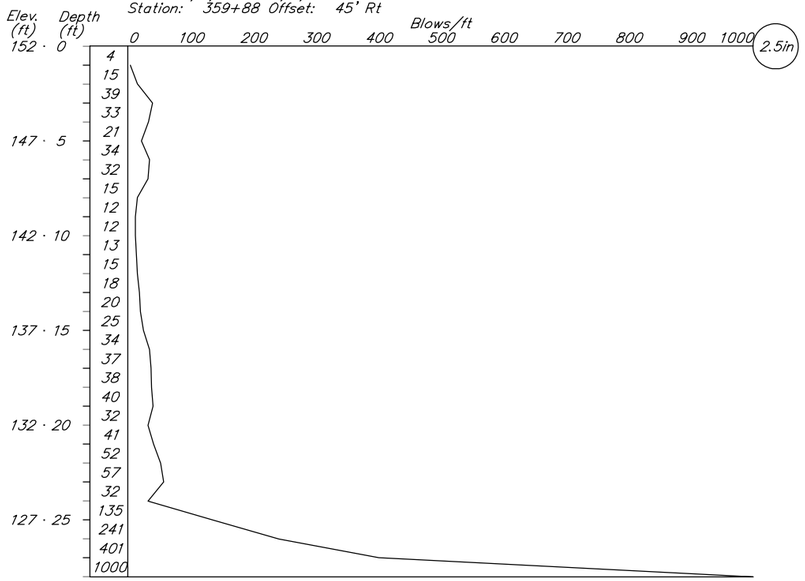
BRIDGE NO. 2239
DWG. NO. 21

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-5 TH18-02 Sep 07, 2021 - 1:02pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N22	N24

PI8-01

Date: 10/8/18 – 10/8/18
Station: 359+88 Offset: 45' Rt

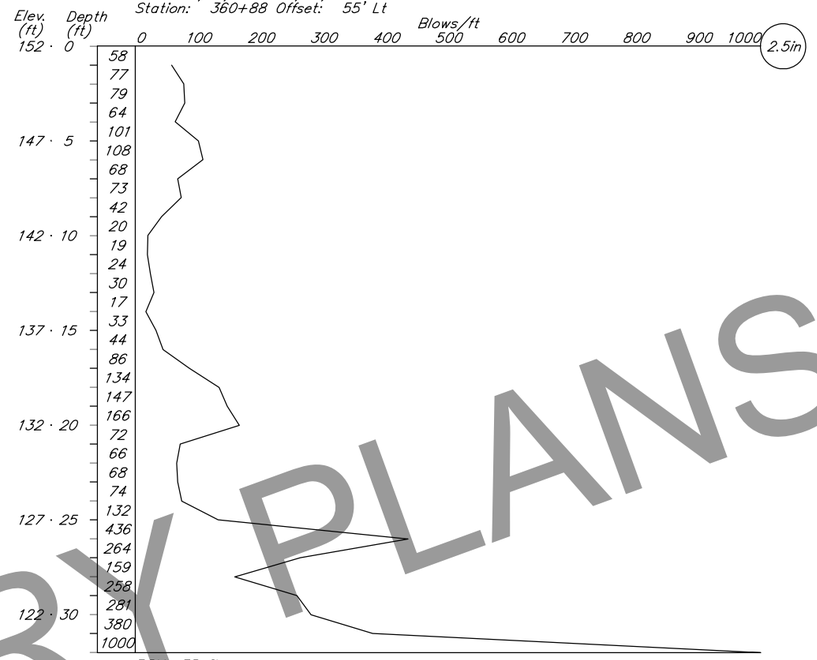


BOH: 28 ft

Hammer: CME Auto Hammer 340 lb hammer
Equipment: CME 85
Drilling Method: Penetrometer
Geologist: C. Bruns

PI8-02

Date: 10/16/18 – 10/16/18
Station: 360+88 Offset: 55' Lt



BOH: 32 ft

Hammer: CME Auto Hammer 340 lb hammer
Equipment: CME 85
Drilling Method: Penetrometer
Geologist: C. Bruns

DESIGNED BY: D. Hemstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hemstreet
No. CE 9800
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

TEST HOLE & PENETROMETER LOGS

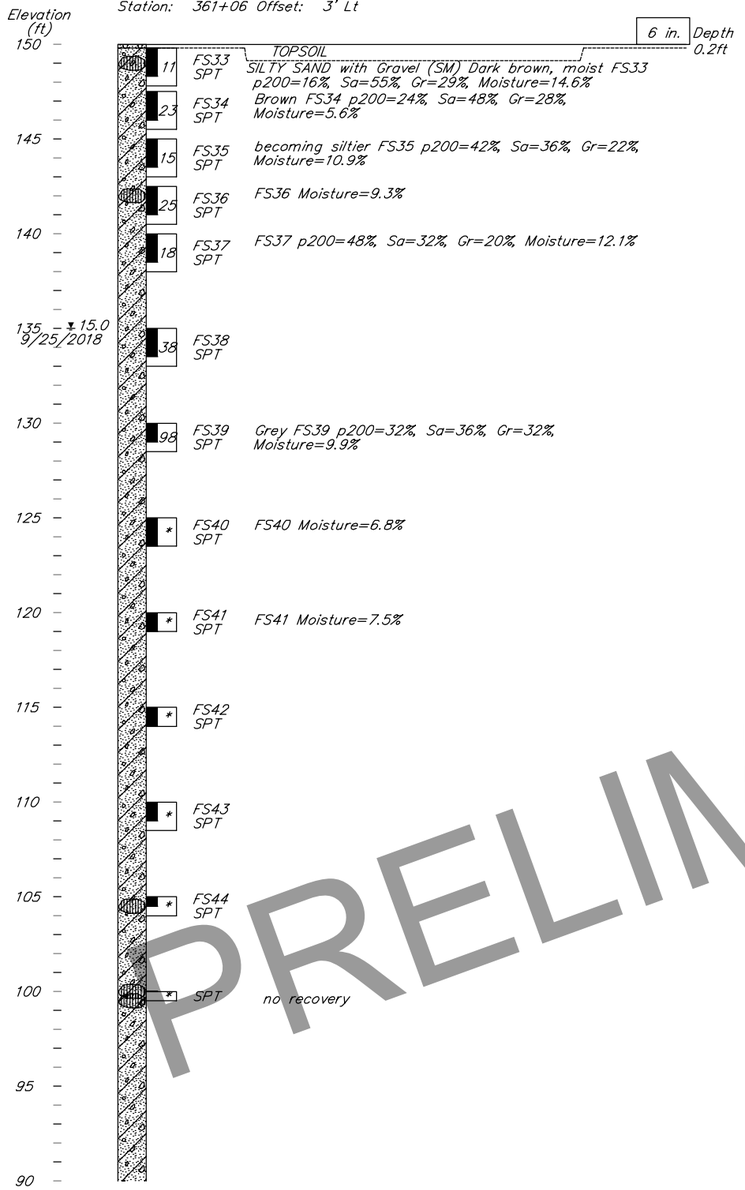
BRIDGE NO. 2239
DWG. NO. 22

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-6 PEN18-01&02 Sep 07, 2021 - 1:02pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	23	N24

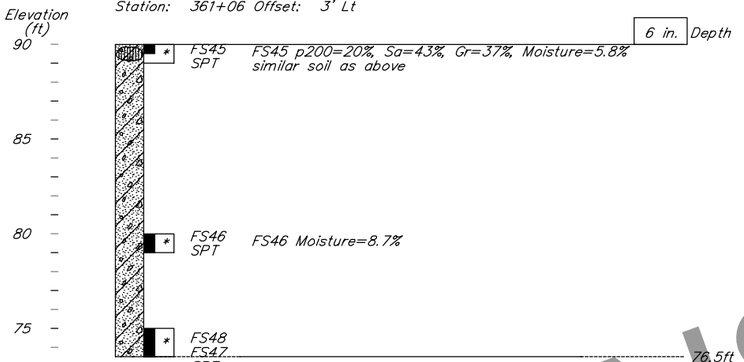
TH18-03

Date: 9/25/18 – 9/28/18
Station: 361+06 Offset: 3' Lt



TH18-03 (con't)

Date: 9/25/18 – 9/28/18
Station: 361+06 Offset: 3' Lt



B.O.H. 76.5 ft.
Notes: Refusal at 76.5'.
Hammer: CME Auto Hammer 140 lb hammer
Equipment: CME 850
Drilling Method: Hollow Stem Auger/Casing Tricone
Geologist: C. Bruns
Latitude: −149.85647 Longitude: 61.13782

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-7 TH18-03 Sep 07, 2021 - 1:02pm

DESIGNED BY: D. Hernstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hernstreet
No. CE 9800
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

SEWARD HIGHWAY

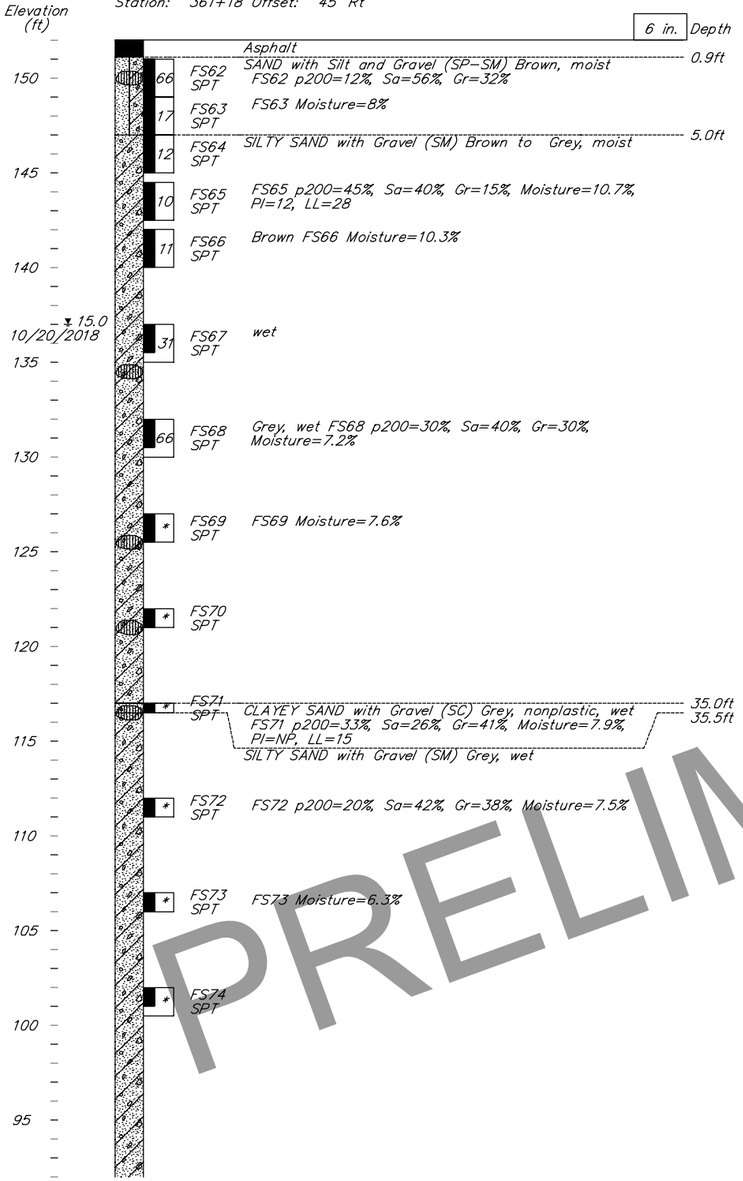
TEST HOLE & PENETROMETER LOGS

BRIDGE NO. 2239
DWG. NO. 23

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/ CFHWY00012	2021	N24	N24

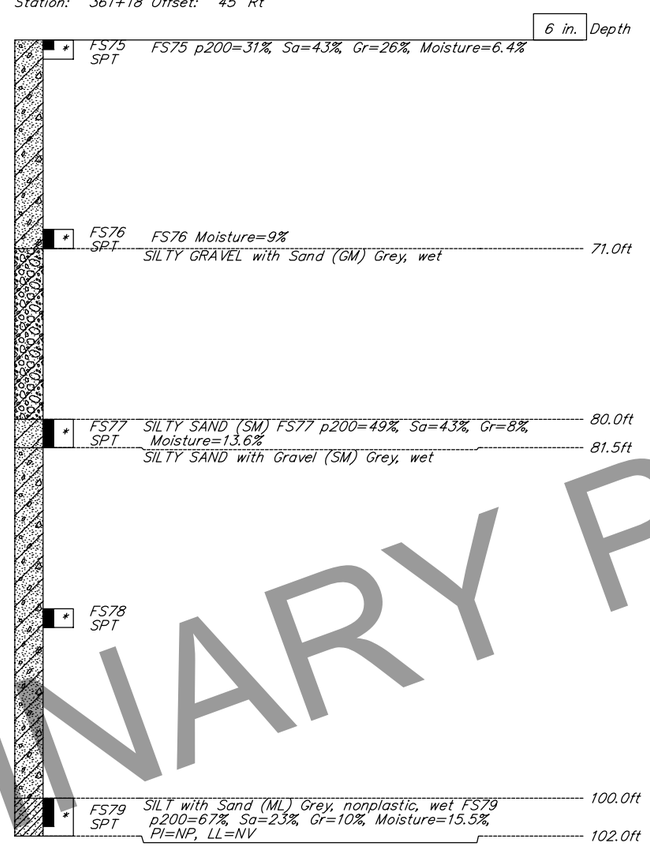
TH18-05

Date: 10/20/18 – 10/22/18
Station: 361+18 Offset: 45' Rt



TH18-05 (con't)

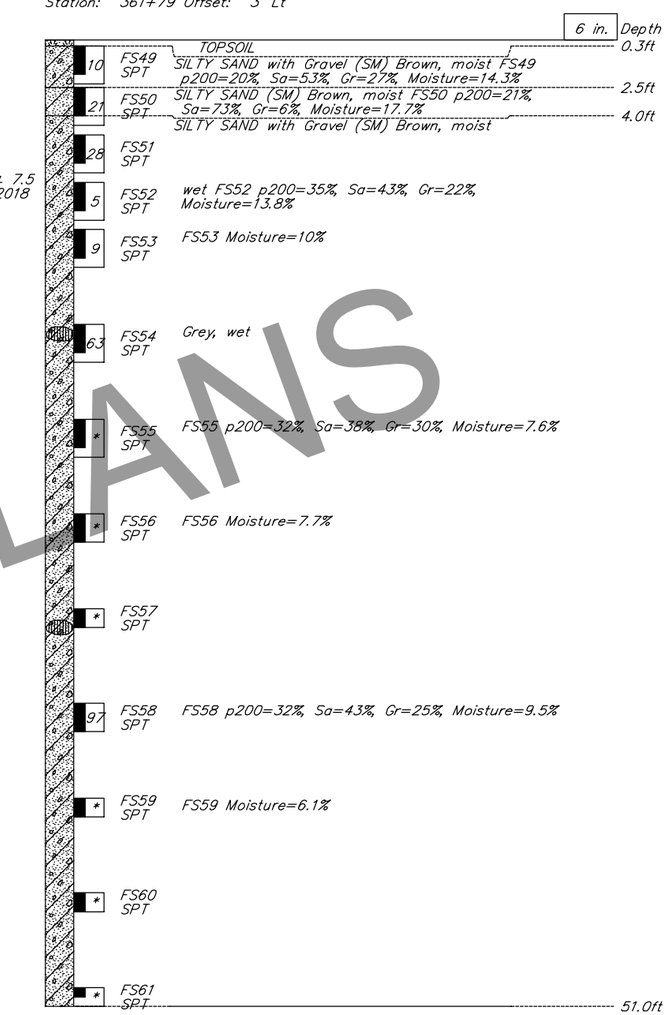
Date: 10/20/18 – 10/22/18
Station: 361+18 Offset: 45' Rt



B.O.H. 102 ft.
Hammer: CME Auto Hammer 140 lb hammer
Equipment: CME 85
Drilling Method: Hollow Stem Auger/Casing Tricone
Geologist: C. Bruns
Latitude: −149.85617 Longitude: 61.13785

TH18-04

Date: 10/17/18 – 10/19/18
Station: 361+79 Offset: 3' Lt



B.O.H. 51 ft.
Hammer: CME Auto Hammer 140 lb hammer
Equipment: CME 850
Drilling Method: Hollow Stem Auger/Casing Tricone
Geologist: C. Bruns
Latitude: −149.85646 Longitude: 61.13802

R:\cad\2239\DWGS\GEODWGS\2239_GEO_-8 TH18-05&04 Sep 07, 2021 - 1:02pm

DESIGNED BY: D. Hemstreet	CHECKED: Engineer		
DRAWN BY: R. Angell	CHECKED: J. Nicolazzo		
QUANTITIES BY: Engineer	CHECKED: Engineer		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATEWIDE MATERIALS

STATE OF ALASKA 49TH
David A. Hemstreet
No. CE 9800
REGISTERED PROFESSIONAL ENGINEER
9/8/21

SCOOTER AVENUE UNDERCROSSING

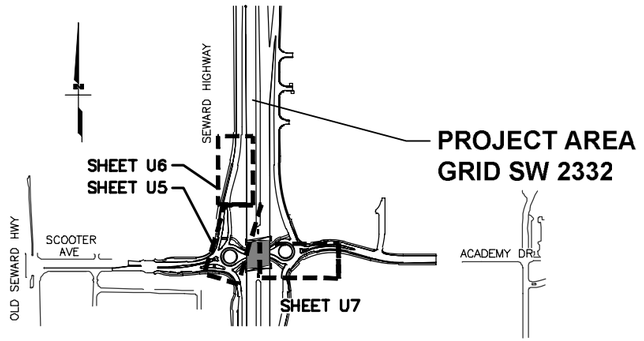
SEWARD HIGHWAY

TEST HOLE & PENETROMETER LOGS

BRIDGE NO. 2239
DWG. NO. 24

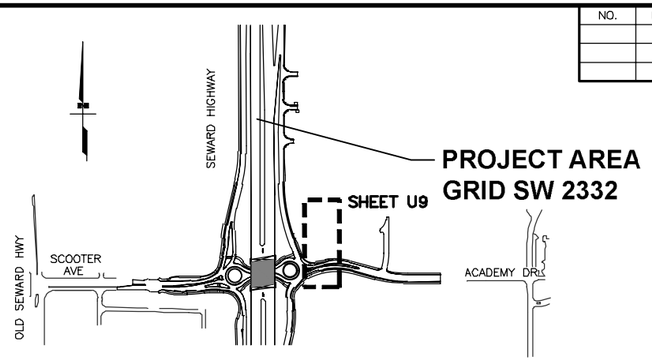
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	U1	U9



WATER KEY MAP

NOT TO SCALE



SEWER KEY MAP

NOT TO SCALE

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE CURRENT EDITION OF THE STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE SPECIAL PROVISIONS.
2. MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SEPARATION BETWEEN WATER AND SANITARY OR STORM SEWER MAINS AND SERVICES. SANITARY AND STORM SEWER PIPE JOINTS SHALL BE PLACED AT LEAST NINE (9) FEET FROM ANY WATERLINE CROSSING.
3. MAINTAIN A MINIMUM OF 36 INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MAINS OR SERVICES) OR SANITARY SEWER (MAINS OR SERVICES). IF 36 INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4 INCH THICK INSULATION.
4. ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED OR EXPANDED POLYSTYRENE, MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20 PER FOUR (4) INCH THICK INSULATION. THIS REQUIREMENT DIFFERS FROM INSULATION FOR ROADWAY.
5. CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
6. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION.
7. IN CASE OF CONFLICT BETWEEN STATIONING LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS RELATIVE TO THE CENTERLINE AND PROPERTY LINE, THE DIMENSIONED LINES SHALL GOVERN.
8. THE CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
9. CONTRACTOR SHALL FIELD INSTALL RESTRAINED FITTINGS ON ALL MECHANICAL JOINTS.

WATER NOTES

1. AWWU, AFD AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS NOT TO EXCEED ONE-HUNDRED FORTY-FOUR (144) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6 HOURS IN ANY 24-HOUR PERIOD OR IF DEEMED NECESSARY BY THE ENGINEER.
2. ALL WATER MAINS SHALL BE CLASS 52 DUCTILE IRON PIPE.
3. ALL BENDS, TEES, AND DEAD-ENDS SHALL HAVE THRUST RESTRAINT IAW AK STANDARD PLAN U-03.01 "THRUST BLOCKS"..
4. THRUST RESTRAINT SHALL BE PROVIDED BY USE OF TR FLEX JOINTS (OR APPROVED EQUAL) UNLESS STATED OTHERWISE ON THE DRAWINGS, OR AS APPROVED BY THE ENGINEER.
5. NO PIPE LENGTH LESS THAN TEN (10) FEET SHALL BE INCORPORATED IN THE WATER SYSTEM EXCEPT FOR THOSE NECESSARY FOR VALVE LOCATIONS UNLESS RESTRAINED.
6. MAXIMUM DEFLECTION OF PIPE PER JOINT SHALL NOT EXCEED 80% OF THE MANUFACTURERS' RECOMMENDED DEFLECTION FOR DIP.
7. ALL WATER MAIN AND SERVICE TRENCHES AND BEDDING SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
8. ALL PIPE BEDDING SHALL BE AS SPECIFIED IN SECTION 627 OF THE PROJECT SPECIFICATIONS.
9. CONTRACTOR SHALL SEQUENCE WORK TO ENSURE WATER LINE IS PROTECTED AGAINST FREEZING PRIOR TO COMMISSIONING OF PIPE.
10. ALL NEW PIPE SHALL BE JOINT BONDED WITH #2 HMWPE WIRE PER THE DRAWINGS AND SPECIFICATIONS.

SHEET INDEX

ABBREVIATIONS

AC	–	ASBESTOS CEMENT
ADEC	–	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ADJ	–	ADJACENT
AFD	–	ANCHORAGE FIRE DEPARTMENT
ASS'Y	–	ASSEMBLY
AWG	–	AMERICAN WIRE GAUGE
AWWA	–	AMERICAN WATER WORKS ASSOCIATION
AWWU	–	ANCHORAGE WATER AND WASTEWATER UTILITIES
BOP	–	BOTTOM OF PIPE
BTM	–	BOTTOM
BV&VB	–	BUTTERFLY VALVE & VALVE BOX
CA	–	CONTROLLED ACCESS
CCP	–	CONCRETE CYLINDER PIPE
CI	–	CAST IRON
C.I.P	–	CAST IRON PIPE
D.C.	–	DUCTILE IRON
DIA.	–	DIAMETER
DIP	–	DUCTILE IRON PIPE
DOT&PF	–	DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DTL	–	DETAIL
E	–	EAST
EJIW	–	EAST JORDAN IRON WORKS
GV&VB	–	GATE VALVE & VALVE BOX
HDPE	–	HIGH DENSITY POLYETHYLENE
HMWPE	–	HIGH MOLECULAR WEIGHT POLYETHYLENE
HREW	–	HOT ROLLED ELECTRIC WELDED
I.A.W	–	IN ACCORDANCE WITH
INV	–	INVERT
KB	–	KEY BOX
LB	–	POUND
LF	–	LINEAR FEET
LT	–	LEFT
MAX	–	MAXIMUM
MIN	–	MINIMUM
MJ	–	MECHANICAL JOINT
MOA	–	MUNICIPALITY OF ANCHORAGE
N	–	NORTH
NTS	–	NOT TO SCALE
O&M	–	OPERATIONS & MAINTENANCE
O.B.	–	OUTSIDE DIAMETER
OSHA	–	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PSI	–	POUNDS PER SQUARE INCH
RCP	–	REINFORCED CONCRETE PIPE
R.O.W.	–	RIGHT-OF-WAY
RT	–	RIGHT
S	–	SOUTH
SDR	–	STANDARD DIMENSION RATIO
STD	–	STANDARD
TOP	–	TOP OF PIPE
TYP	–	TYPICAL
U/G	–	UNDERGROUND
VB	–	VALVE BOX
W	–	WEST
W/	–	WITH

STATE OF ALASKA
49TH
CERTIFICATION
APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

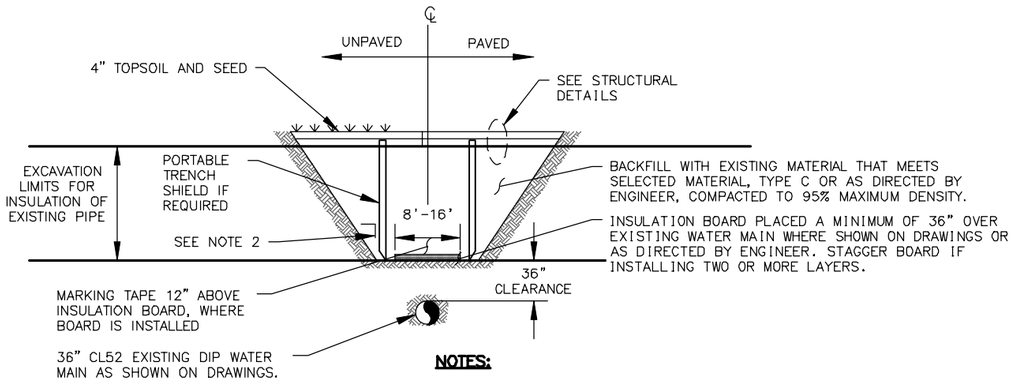
SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WATER & SANITARY SEWER SHEET LAYOUT, KEY MAP AND NOTES

DATE/TIME | 4/8/2022 4:13 PM | LAYOUT | U1 | DESIGNED | CM | CHECKED | AC | DRAFTED | CM
FILE: C:\DOWL_PW\0391306\SC-CT-UT-DT-62153.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	U2	U9

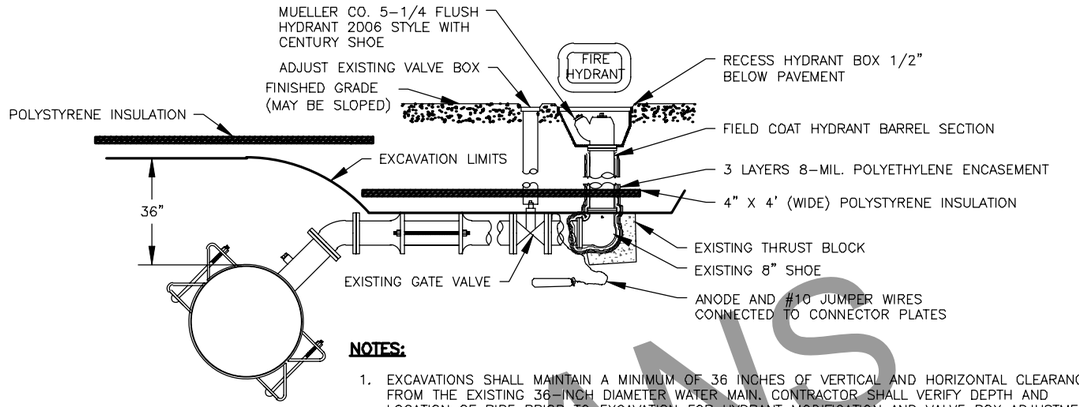


NOTES:

1. POLYSTYRENE FOAM INSULATION BOARD SHALL BE INSTALLED A MINIMUM OF 36" ABOVE THE PIPE AND A MINIMUM OF 16" BELOW FINISH GRADE OUTSIDE OF STRUCTURAL SECTION AREAS WHICH WILL SUPERSEDE E-SHEET INSULATION DETAILS.
2. SLOPE TRENCH WALLS ACCORDING TO SOIL CONDITIONS AND O.S.H.A. SAFETY STANDARDS.
3. TRENCH EXCAVATION AND BACKFILL PAY LIMITS ARE SUBSIDIARY TO THE 635 PAY ITEM.

36" WATER MAIN INSULATION SECTION

N.T.S.

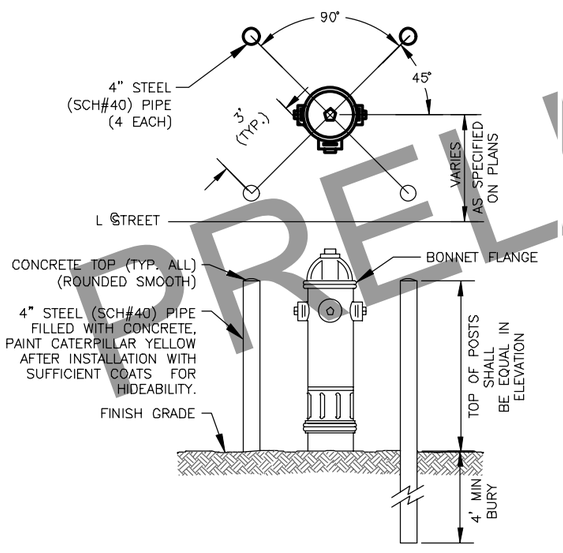


NOTES:

1. EXCAVATIONS SHALL MAINTAIN A MINIMUM OF 36 INCHES OF VERTICAL AND HORIZONTAL CLEARANCE FROM THE EXISTING 36-INCH DIAMETER WATER MAIN. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF PIPE PRIOR TO EXCAVATION FOR HYDRANT MODIFICATION AND VALVE BOX ADJUSTMENT.
2. EXCAVATE TO EXISTING HYDRANT SHOE WHERE NECESSARY TO REPLACE HYDRANT BARREL AND BOX WITH LID AT FINISH GRADE.
3. MAINTAIN EXISTING CONCRETE THRUST BLOCK AND BEARING SOIL INTEGRITY.
4. WRAP NEW HYDRANT BARREL AND BOX IN 3 LAYERS 8-MIL. POLYETHYLENE ENCASEMENT. BOND WITH EXISTING SHOE ENCASEMENT.
5. INSTALL POLYSTYRENE INSULATION BOARD A MINIMUM OF 1' ABOVE HYDRANT LEG. FIT AROUND VALVE BOX AND HYDRANT BARREL.
6. INSTALL POLYSTYRENE INSULATION BOARD AND MINIMUM OF 3' ABOVE 36" DIAMETER WATER MAIN WHERE DEPTH OF BURY IS LESS THAN 10 FEET.

AIR RELEASE HYDRANT MODIFICATION - SHEET U5

N.T.S.

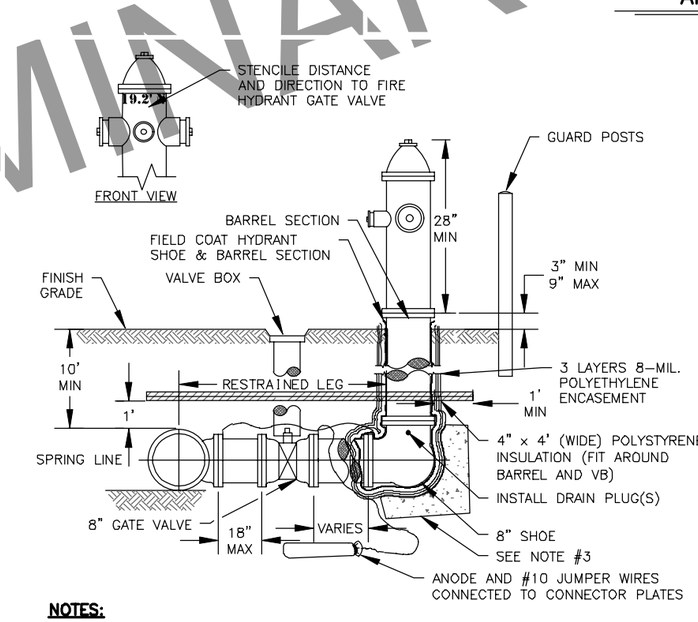


NOTES:

1. GUARD POSTS WILL BE FURNISHED & INSTALLED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
2. GUARD POSTS SHALL BE INSTALLED PLUMB AND LOCATED TO ALLOW UNRESTRICTED ACCESS TO PUMPER AND HOSE CONNECTIONS.

FIRE HYDRANT GUARD POSTS

N.T.S.



NOTES:

1. HYDRANT BARREL SHALL BE INSTALLED PLUMB AND THE LEG SHALL BE LEVEL.
2. ALL BACKFILL MATERIAL WITHIN 3 FEET AROUND HYDRANT BARREL SHALL BE NFS.
3. ALL PVC C-900 HYDRANT LEGS SHALL HAVE THRUST BLOCKS PER AK STANDARD PLAN U-03.01 "THRUST BLOCKS".

DOUBLE PUMPER "L" BASE FIRE HYDRANT ASSEMBLY

N.T.S.

STATE OF ALASKA
CERTIFICATION APRIL 2022
REGISTERED PROFESSIONAL ENGINEER

DOWL, LLC
4041 B STREET
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WATER SYSTEM DETAILS

DATE/TIME 4/8/2022 4:13 PM | LAYOUT U2 | DESIGNED CM | CHECKED AC | DRAFTED CM
FILE C:\DOWL_PW\D0391306\SC-CT-UT-DT-62153.DWG

NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	U3	U9

ANODE WIRE CONNECTION NOTES:

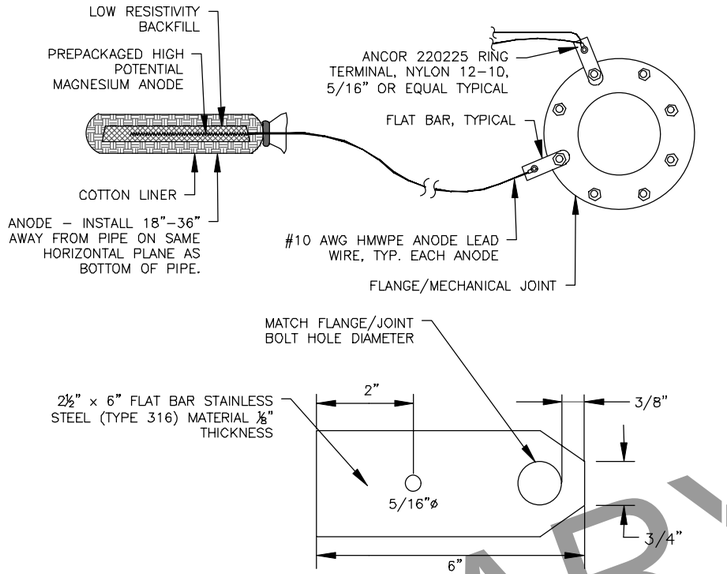
1. CONTRACTOR TO FABRICATE FLAT BAR.
2. INSTALL FLAT BAR ON BODY SIDE OF FLANGE OR MECHANICAL JOINT. REMOVE COATING AT THE FLAT BAR LOCATION PRIOR TO INSTALLATION. METAL TO METAL CONTACT IS REQUIRED. REPAIR VISIBLE COATING DAMAGE WITH DENSYL TAPE AND PRIMER.
3. CONNECT WIRE WITH COMPRESSION RING CONNECTOR AND 1/4"ø x 1" STAINLESS STEEL BOLT (TYPE 316) WITH WASHER AND SELF LOCKING NUT.
4. WRAP ELECTRICAL INSULATION TAPE AROUND RING CONNECTOR AND BOND STRAP (WIRE END ONLY). DENSYL TAPE OR APPROVED EQUAL.
5. WRAP ELECTRICAL INSULATION TAPE A MINIMUM OF 3" DOWN ON WIRE INSULATION TO ENCAPSULATE CONNECTION.

ANODE NOTES:

1. HIGH POTENTIAL MAGNESIUM ANODES SHALL BE PREPACKAGED IN A CLOTHE BAG WITH A BACKFILL MIXTURE OF 75% GYPSUM, 20% BENTONITE AND 5% SODIUM SULFATE. THE ANODES SHALL HALVE A 20LB BARE WEIGHT AND APPROXIMATELY 70LB PACKAGED WEIGHT.
2. ANODES SHALL BE INSTALLED AT EACH VALVE AND EACH FITTING. AN ADDITIONAL TWO (2) ANODES MUST BE INSTALLED ON THE EXISTING TIE-IN PIPE.
3. CONTRACTOR SHALL PROVIDE COORDINATES OR PIPE STATIONING FOR EACH ANODE INSTALLED.
4. ALL CABLES SHALL BE SINGLE CONDUCTOR, STRANDED COPPER, WITH TYPE HMWPE INSULATION RATED FOR 600 VOLTS.
5. SPLIT-BOLT CONNECTIONS SHALL NOT BE ALLOWED ON ANY UNDERGROUND CONDUCTORS. IF SPLICES ARE REQUIRED, COMPRESSION CONNECTIONS SHALL BE SEALED WITH A HEAT SHRINK SLEEVE RATED FOR BELOW GRADE USE.
6. AT FIRE HYDRANT LOCATIONS, INSTALL ONE ANODE (18"-36" AWAY FROM THE PIPE) AT THE MIDPOINT BETWEEN THE TEE FROM THE MAIN LINE PIPE AND THE HYDRANT SHOE.

EXOTHERMIC WELD NOTES:

1. EXOTHERMIC WELDS SHALL BE MADE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (NOTE: COPPER CONDUCTOR SLEEVES ARE REQUIRED FOR #10 WIRE BY SOME MANUFACTURERS). THE EXOTHERMIC WELD AREA SHALL BE COATED WITH HANDICAP IP OR EQUAL AND ANY BASE METAL EXPOSED AFTER INSTALLATION OF HANDICAP IP MUST BE COATED WITH COAL TAR MASTIC. .
2. EXOTHERMIC WELD MOLDS AND WELD METAL SHALL BE SIZED FOR THE PIPE SIZE, WIRE TYPE, WIRE SIZE AND PIPE MATERIAL. DUCTILE IRON PIPE SHALL USE MOLDS AND WELD METAL FOR CAST IRON.



ANODE DETAIL

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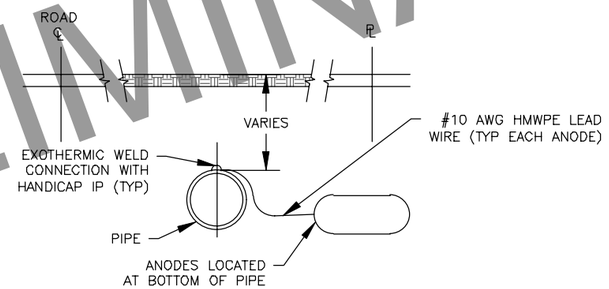

ANODE WELD DETAIL

N.T.S.

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APRIL 2022
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AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WATER SYSTEM DETAILS

DATE/TIME 4/8/2022 4:13 PM | LAYOUT U3 | DESIGNED CM | CHECKED AC | DRAFTED CM
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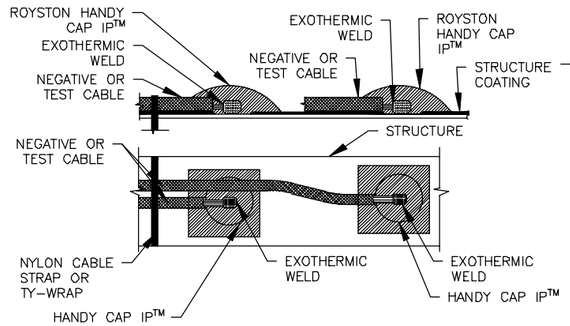
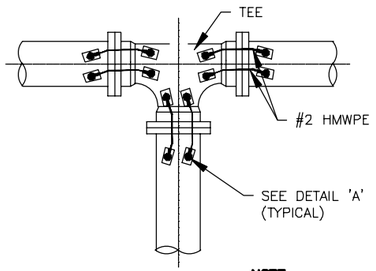
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	U4	U9



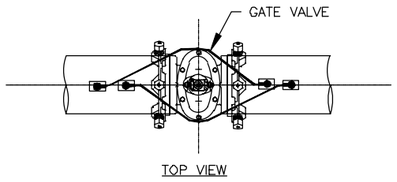
DETAIL 'A'



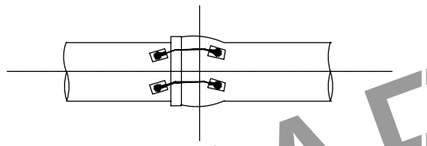
JOINT BONDING OF A TEE

NOTE:

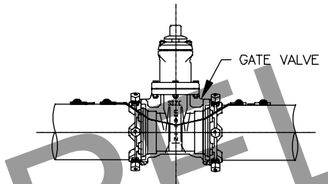
ENTIRE TEE ASSEMBLY TO BE FIELD COATED WITH 4-PART AWWA C217 WAX TAPE SYSTEM.



TOP VIEW



JOINT BONDING BELL/SPIGOT PIPE



SIDE VIEW

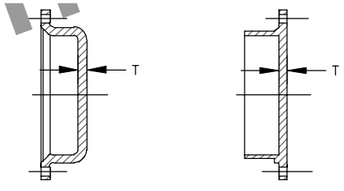
JOINT BONDING ACROSS VALVE

NOTE:

ENTIRE VALVE ASSEMBLY TO BE FIELD COATED WITH 4-PART AWWA C217 WAX TAPE SYSTEM.

JOINT BONDING

N.T.S.



NOTES:

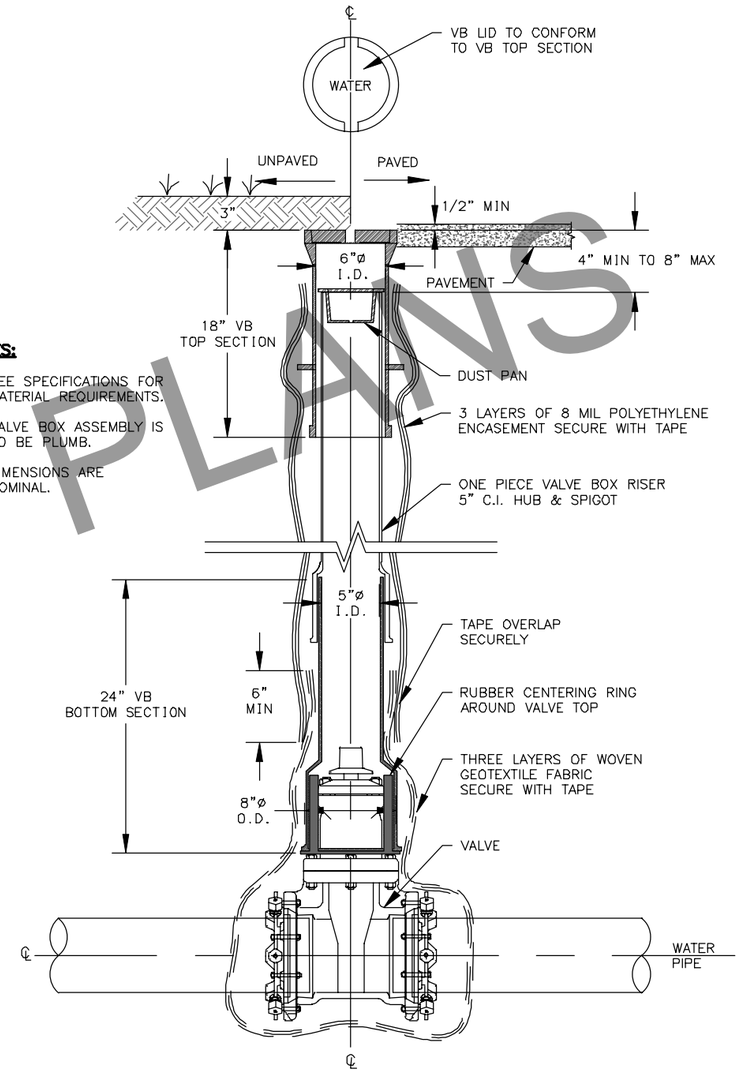
1. MECHANICAL JOINT RESTRAINT EBAA IRON MEGALUG OR EQ JAL.
2. T = THICKNESS PER AWWA C110 OR C153 STANDARDS.

MJ CAP AND PLUG

N.T.S.

NOTES:

1. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
2. VALVE BOX ASSEMBLY IS TO BE PLUMB.
3. DIMENSIONS ARE NOMINAL.



TYPICAL VALVE BOX (VB)

N.T.S.

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STATE OF ALASKA
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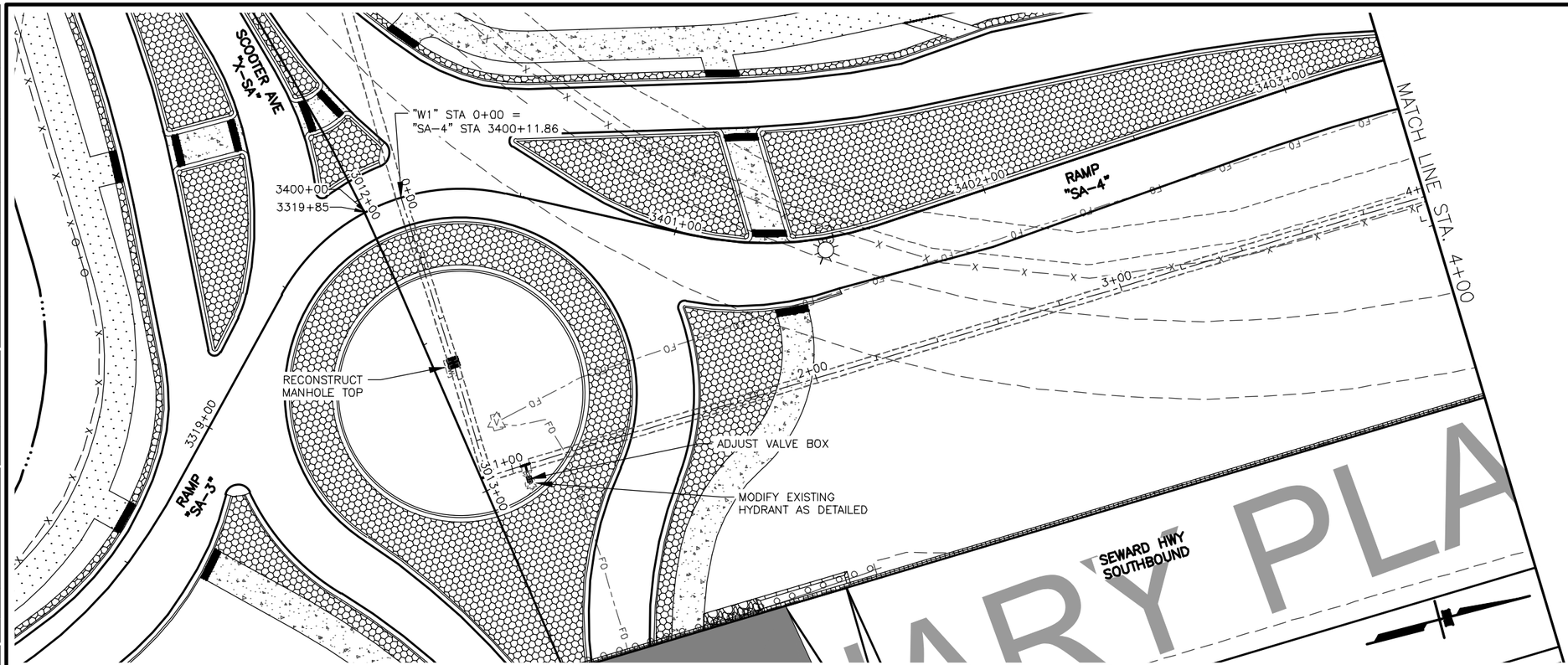
SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

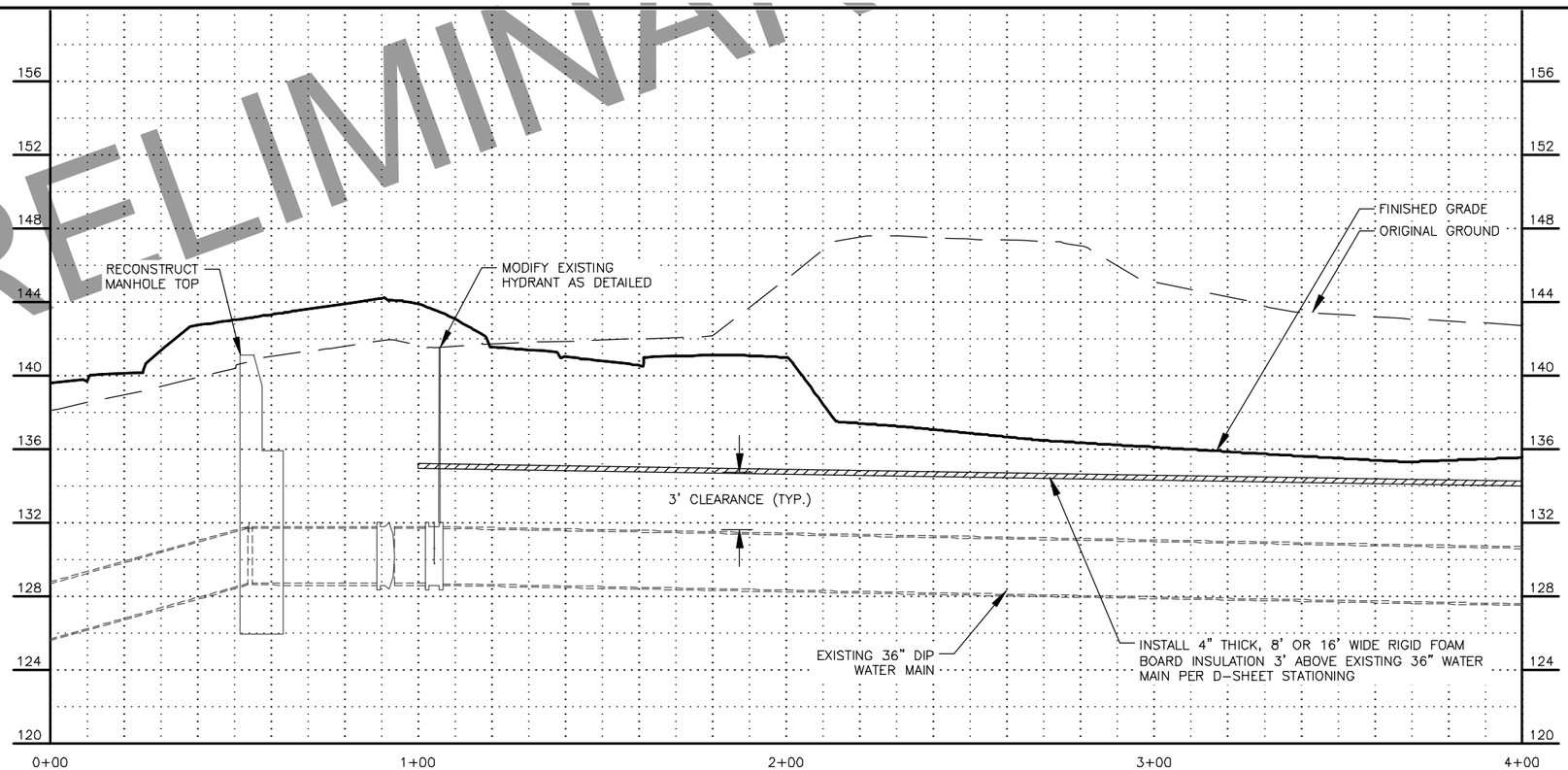
WATER SYSTEM DETAILS

FILE C:\DOWL_PW\D0391306\SC-CT-UT-D1-62153.DWG | DATE/TIME 4/8/2022 4:13 PM | LAYOUT U4 | DESIGNED CM | CHECKED AC | DRAFTED CM



NOTES:

1. EXISTING VALVE VAULT MANHOLE TOP IS A 48" DIAMETER MANHOLE CONFORMING TO TYPE A MANHOLE DETAIL. VALVE STRUCTURE IS A 96" DIAMETER MANHOLE NOT TO BE DISTURBED. VALVE AND 36" WATER MAIN AND VALVE STRUCTURE SHALL BE PROTECTED IN PLACE DURING MANHOLE TOP RECONSTRUCTION.

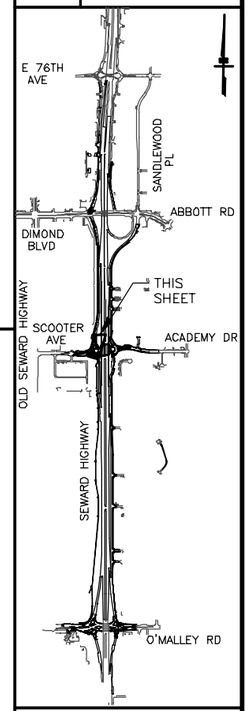


SHEET NO.	TOTAL SHEETS
U5	U9
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WATER MAIN PLAN AND PROFILE

DATE/TIME 4/8/2022 4:13 PM | LAYOUT U5 | DESIGNED 6M | CHECKED 4G | DRAFTED 6M

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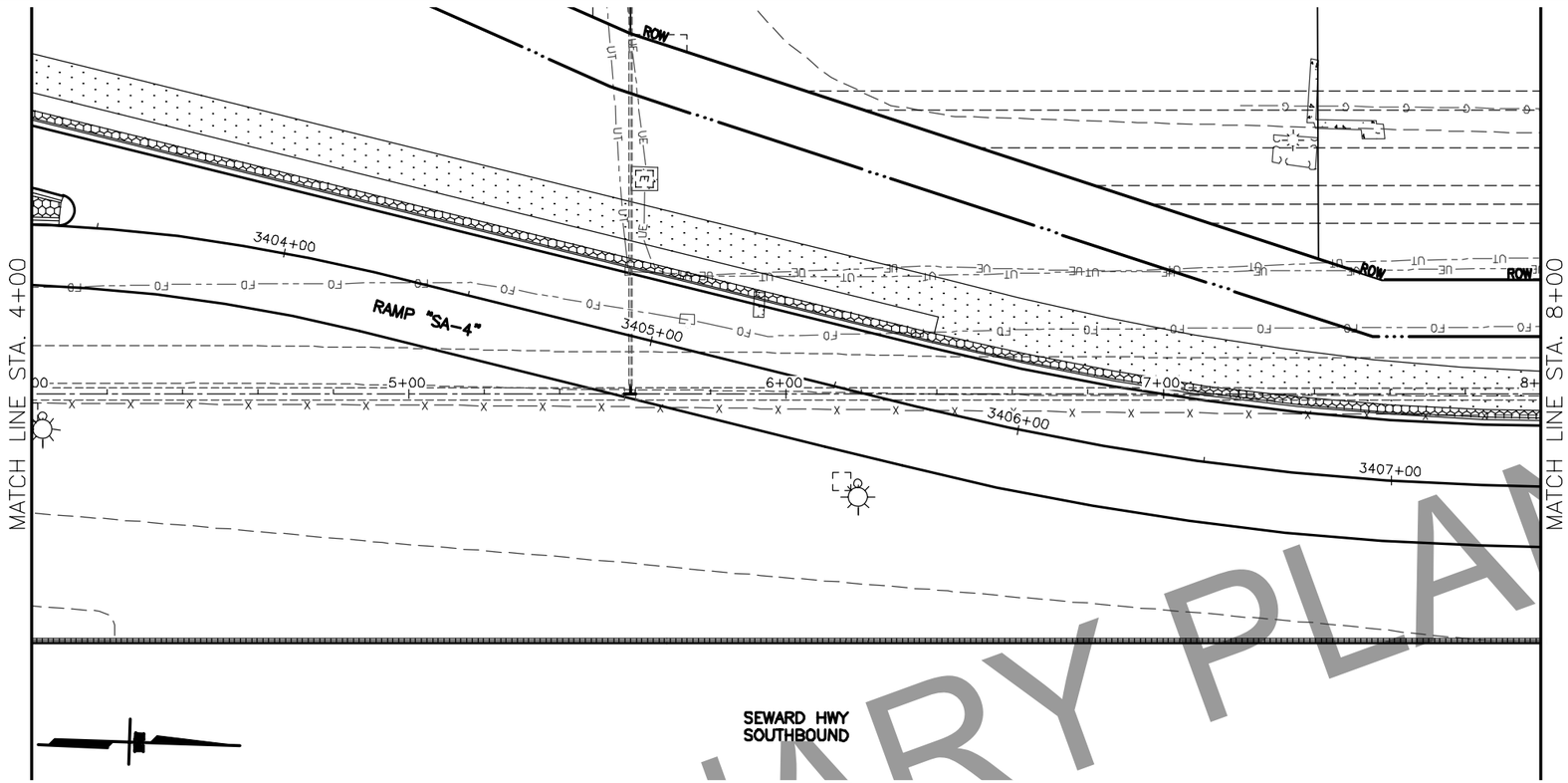
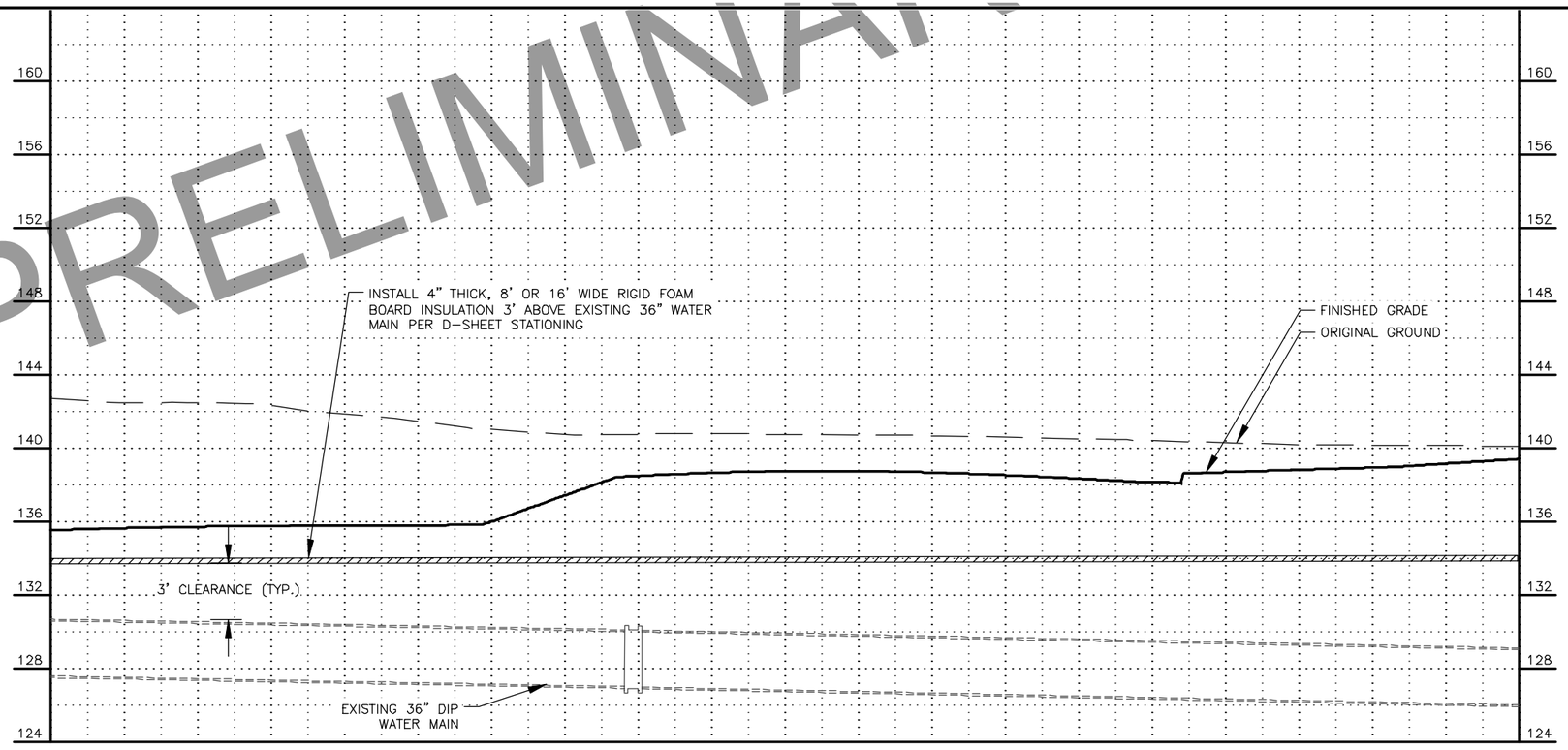


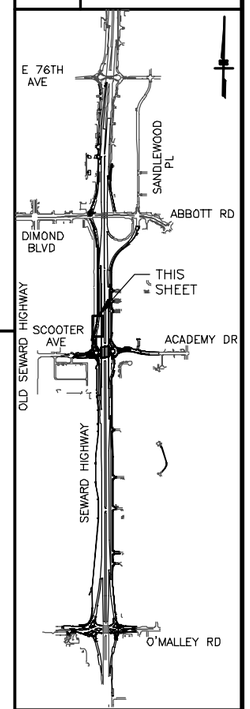


SHEET NO.	TOTAL SHEETS
U6	U9
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

WATER MAIN PLAN AND PROFILE

DATE/TIME 4/8/2022 4:14 PM | LAYOUT U6 | DESIGNED 6M | CHECKED 4G | DRAFTED 6M

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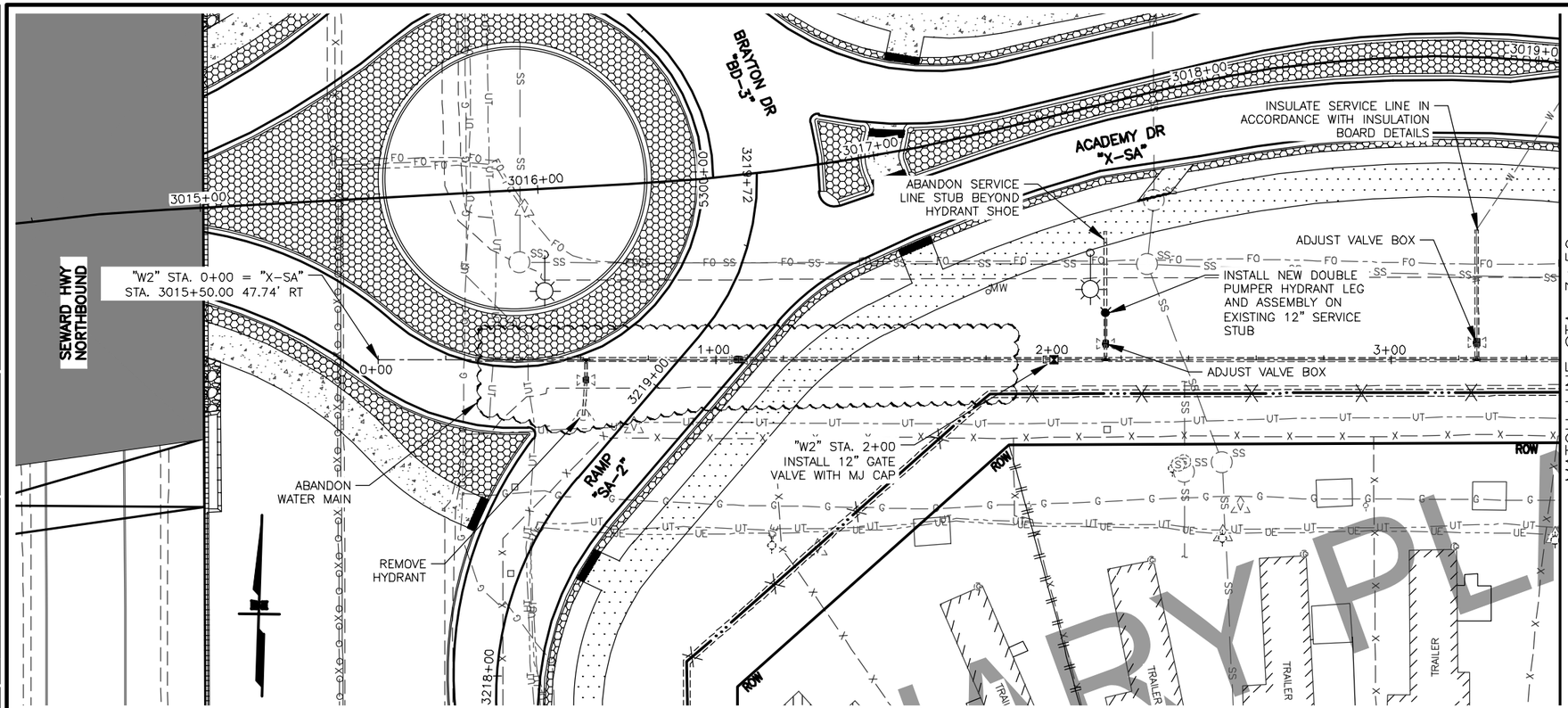
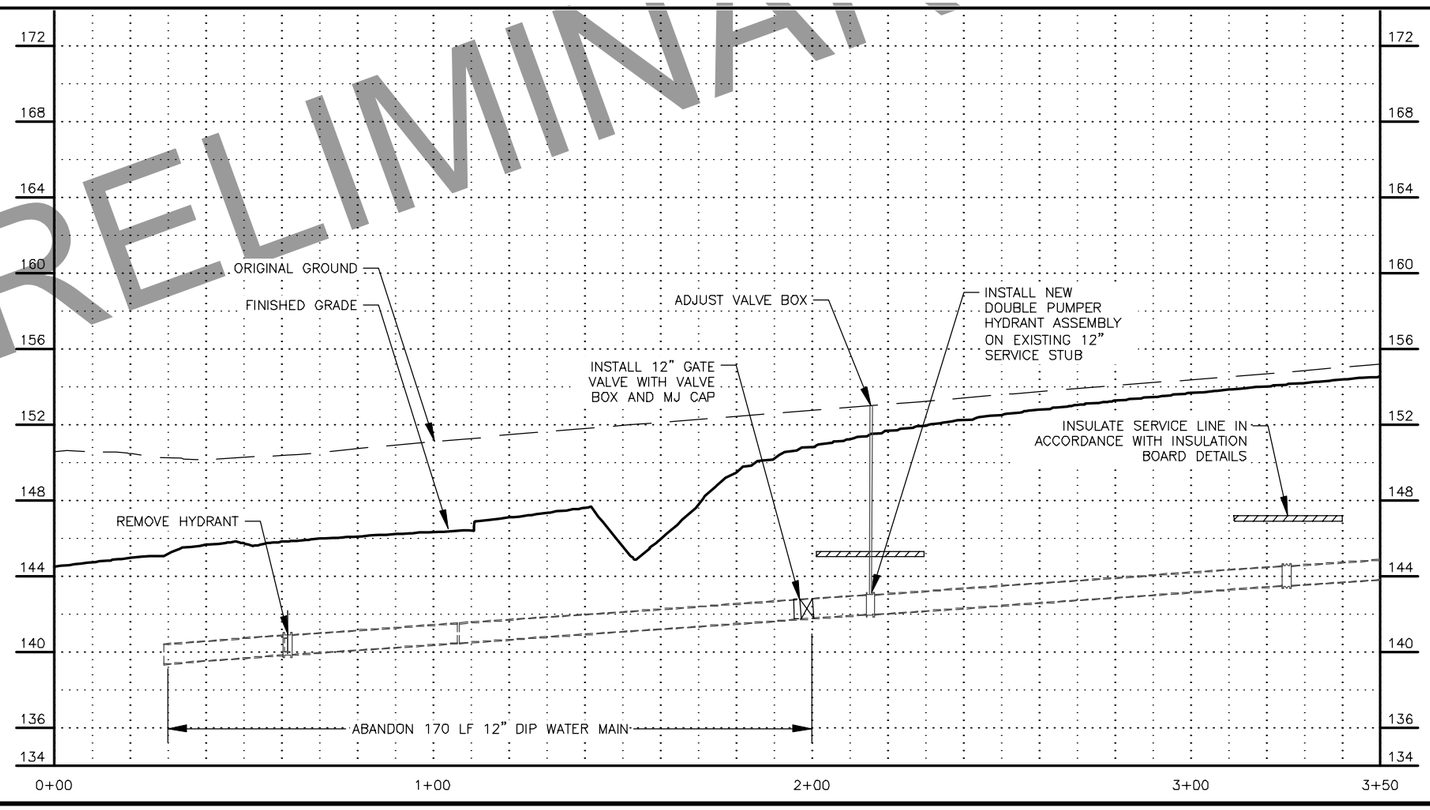


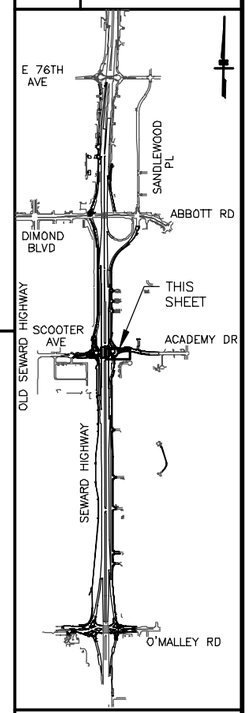
NOTES:

1. CONTRACTOR SHALL INSULATE SERVICE LINES WHERE LESS THAN 10 FEET OF COVER OVER EXISTING PIPE RESULTS FROM ROADWAY SECTION AS SPECIFIED ON INSULATION BOARD DETAIL DRAWING.
2. NEW HYDRANT LEG SHALL BEGIN AT EXISTING 12" SERVICE LINE GATE VALVE. ABANDONMENT OF REMAINING SERVICE STUB PIPING BEYOND HYDRANT SHOE SHALL BE SUBSIDIARY TO HYDRANT INSTALLATION.



SHEET NO.	TOTAL SHEETS
U7	U9
STATE	YEAR
ALASKA	2022
PROJECT DESIGNATION	
0537008/ CFHWY00012	

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
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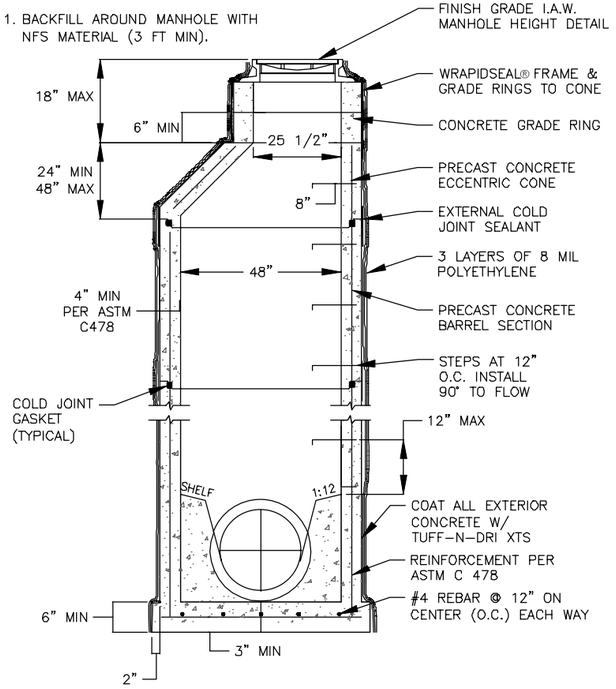
NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0537008/CFHWY00012	2022	U8	U9

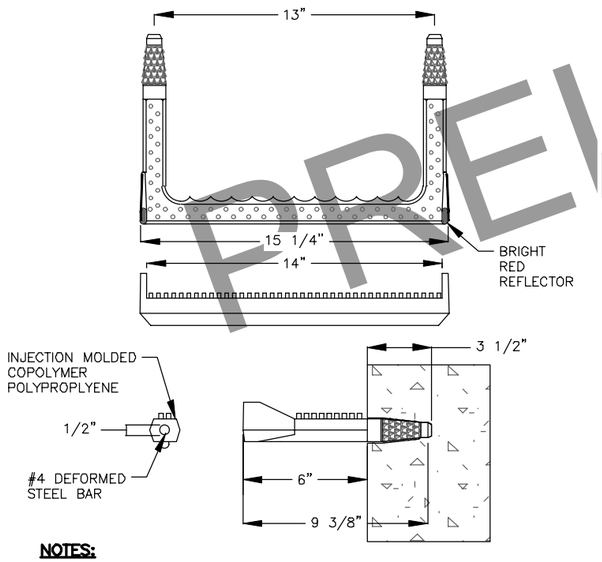
NOTE:

1. BACKFILL AROUND MANHOLE WITH NFS MATERIAL (3 FT MIN).



SANITARY MANHOLE TYPE "A" PIPE 8" TO 24"

N.T.S.

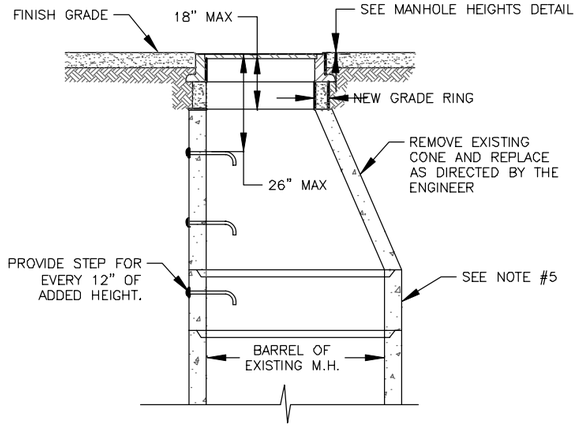


NOTES:

1. DRIVE RUNG INTO PREFORMED OR DRILLED HOLES WITH A 6 TO 10 LB. SLEDGE HAMMER, AFTER CONCRETE IS CURED TO 3000 PSI MIN.
2. THE INSTALLED STEP SHALL RESIST A PULLOUT FORCE OF 1500 LBS.

COPOLYMER POLYPROPYLENE MANHOLE STEP

N.T.S.



NOTES:

1. RESET CONE WITH COLD JOINT GASKET AND SEAL EXTERIOR JOINT WITH COLD JOINT SEALANT.
2. ADJUST FRAME TO PROPER DEPTH BELOW SURFACE OF PAVEMENT. FEATHER EDGE OF PAVEMENT TO SMOOTH TRANSITION PER MANHOLE HEIGHTS DETAIL.
3. SEAL FRAME AND GRADE RINGS TO CONE WITH WRAPIDSEAL® OR APPROVED EQUAL.
4. WRAP CONES & BARREL SECTIONS WITH THREE (3) LAYERS OF 8-MIL THICK POLYETHYLENE ENCASEMENT MATERIAL AFTER INSTALLING THE WRAPIDSEAL® (SEE SANITARY MANHOLE TYPE "A" DETAIL).
5. ADD OR REMOVE PRECAST RISER SECTIONS OR RADIAL CONCRETE MANHOLE. BLOCKS AS DIRECTED BY THE ENGINEER.
6. WHERE "ROTATE CONE" IS DIRECTED, EMBED NEW PROPYLENE STEPS IN-LINE WITH MANHOLE LID FOR FULL DEPTH OF MANHOLE AS DETAILED IN SANITARY MANHOLE TYPE "A" DETAIL. STEPS SHALL BE SUBSIDIARY TO MANHOLE RECONSTRUCTION.

MANHOLE CONE ADJUSTMENT

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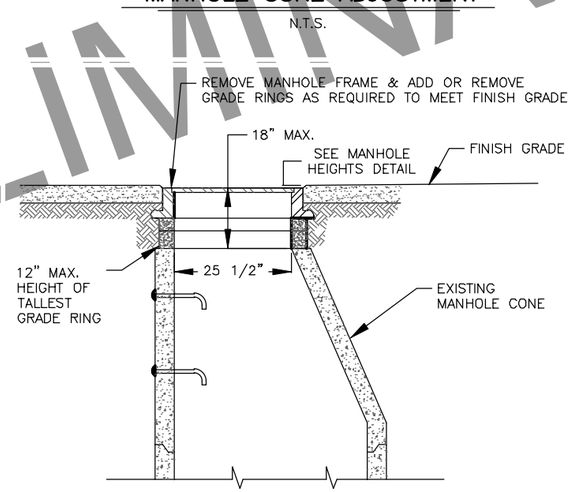
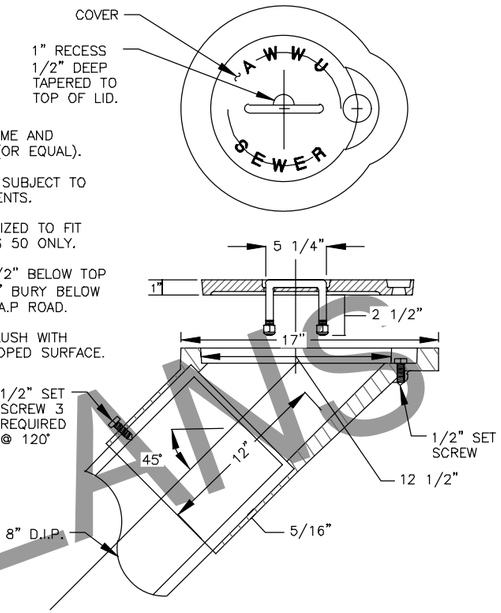


NOTES:

1. WHEN AN ADJUSTMENT OF GREATER THAN 12" IN GRADE RINGS IS REQUIRED, ADJUST CONE PER MANHOLE CONE ADJUSTMENT DETAIL RATHER THAN ADJUST GRADE RINGS.
2. SEAL FRAME AND GRADE RING TO CONE WITH WRAPID SEAL® OR APPROVED EQUAL.

MANHOLE RING ADJUSTMENT

N.T.S.

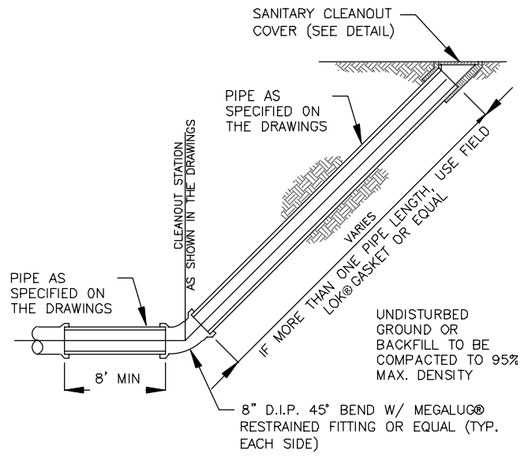


NOTES:

1. CAST CLEANOUT FRAME AND COVER, EJIW 3668 (OR EQUAL).
2. CASTING THICKNESS SUBJECT TO FOUNDRY REQUIREMENTS.
3. CASTING MUST BE SIZED TO FIT 8-INCH, D.I.P CLASS 50 ONLY.
4. COVER SHALL BE 1/2" BELOW TOP OF PAVEMENT OR 6" BURY BELOW GRAVEL, DIRT OR R.A.P ROAD.
5. COVER SHALL BE FLUSH WITH GRASS OR UNDEVELOPED SURFACE.

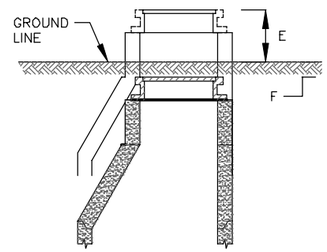
SANITARY SEWER CLEANOUT COVER

N.T.S.



SANITARY CLEANOUT

N.T.S.



LOCATION	E-MIN	E-MAX	F MIN	F-MAX
LANDSCAPED AREAS, GRAVEL STREETS, AND ALLEY AREAS WHERE TRAVELED			0"	2"
UNDEVELOPED AND SWAMPY AREAS	24"	36"		
HIGHWAY R.O.W.S OUTSIDE TRAFFIC AREAS	6"	10"		
PAVED STREETS			1/2"	1"

MANHOLE HEIGHTS

N.T.S.

STATE OF ALASKA
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SEWARD HIGHWAY: O'MALLEY RD TO DIMOND BLVD RECONSTRUCTION

SANITARY SEWER DETAILS

DATE/TIME 4/8/2022 4:15 PM | LAYOUT U8 | DESIGNED CM | CHECKED AC | DRAFTED CM

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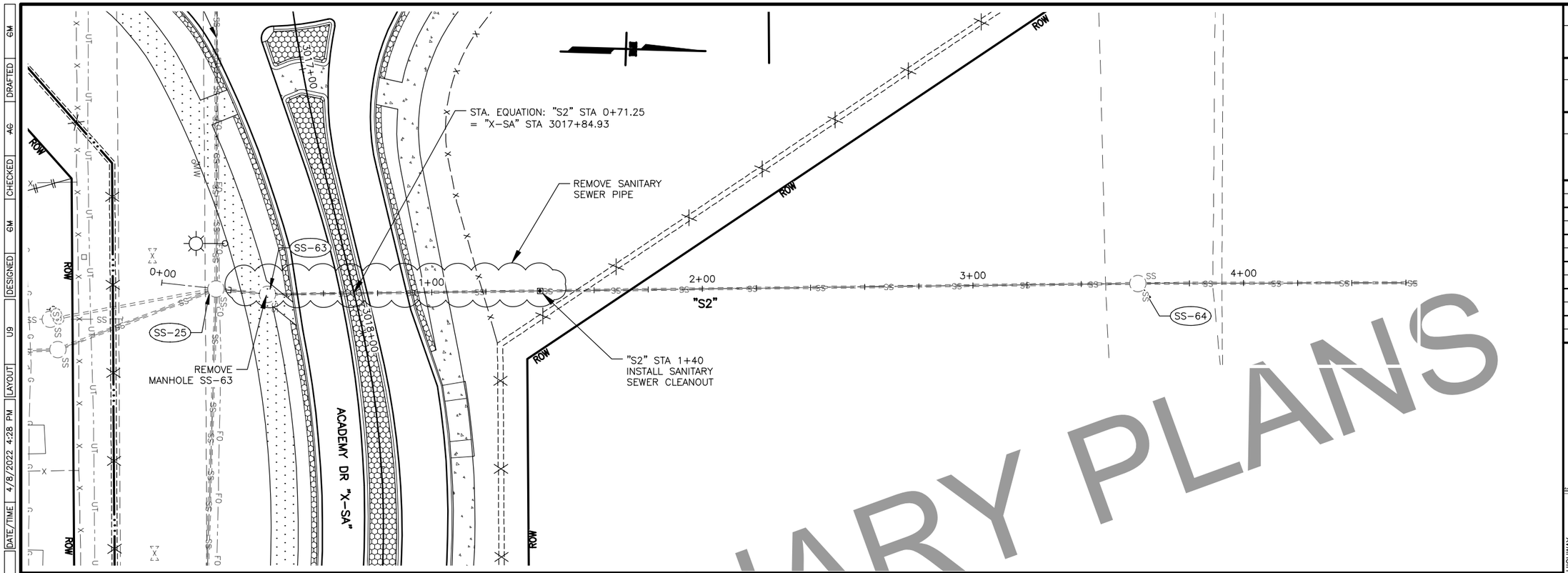
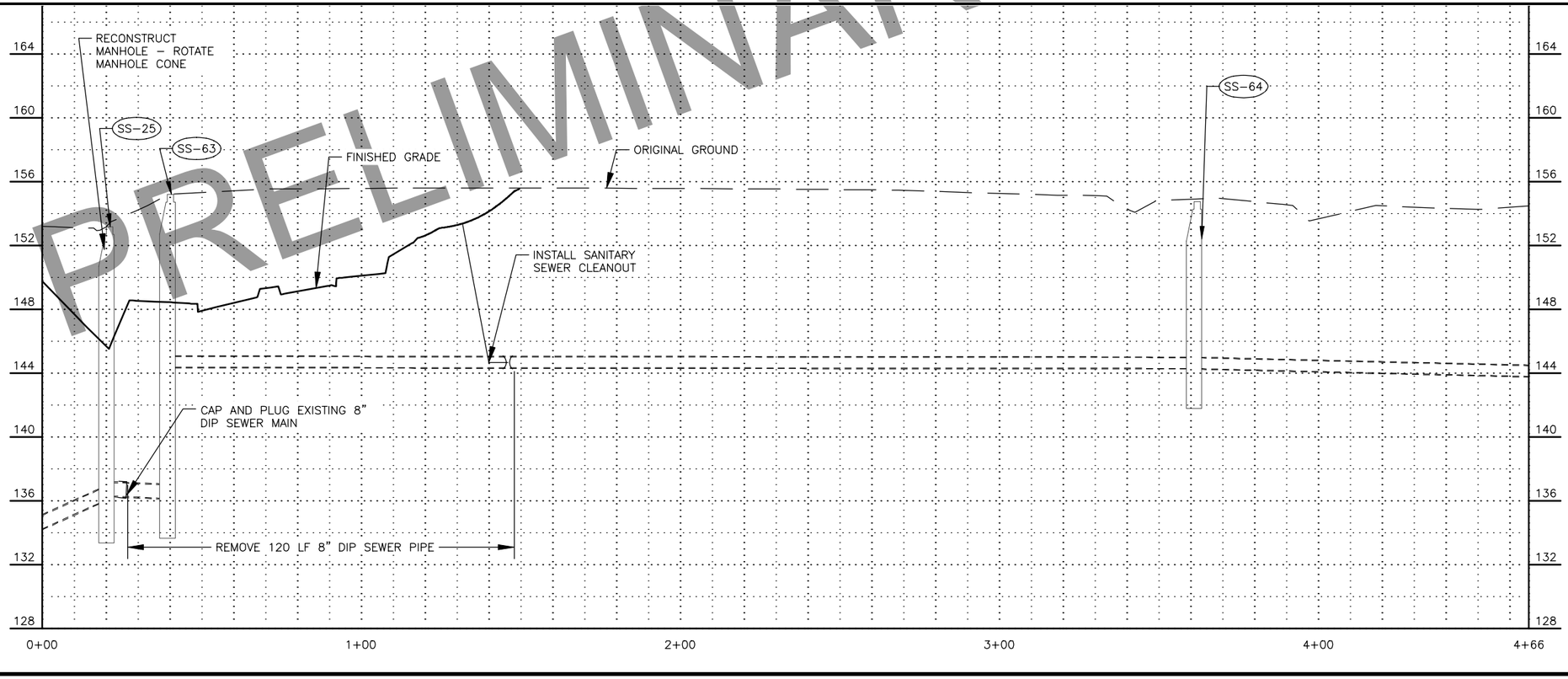


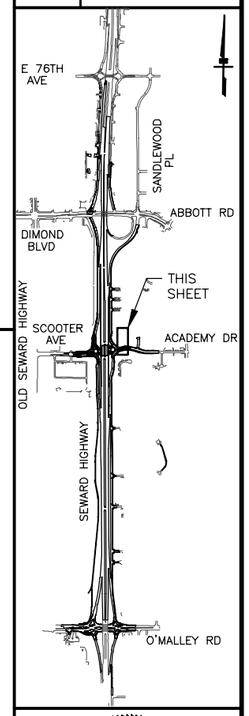


SHEET NO.	TOTAL SHEETS
U9	U9
STATE	YEAR
ALASKA	2022

PROJECT DESIGNATION

0537008/
CFHWY00012

NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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STATE OF ALASKA
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SEWARD HIGHWAY:
O'MALLEY RD TO DIMOND
BLVD RECONSTRUCTION

**SEWER MAIN
PLAN AND PROFILE**

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