

VICINITY MAP **FAIRBANKS** 

STATE	PROJECT DES	SIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0663012/Z62	22070000	2021	A1	87
CDS ROL	JTE: 176300	MILEPOINT:	3.278	в то	3,420

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	GENERAL NOTES AND ABBREVIATIONS
A4	SHEET LAYOUT
A5	PROJECT LAYOUT
B1-B2	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E2	DEMOLITION PLAN AND SUMMARY TABLES
E3-E5	CURB RAMP, SIDEWALK, AND CURB AND GUTTER DETAILS AND SUMMARY TABLES
E6	MISCELLANEOUS DETAILS
F1-F4	PLAN AND PROFILE
G1-G4	GRADING PLANS
H1-H3	SIGNING, STRIPING AND ILLUMINATION PLANS
H4	SIGN SUMMARY AND SALVAGE SIGN SUMMARY
H5	SIGN DETAILS
H6-H10	LIGHTING SUMMARY AND DETAILS
H11	LOAD CENTER WIRING DIAGRAM AND PANEL SCHEDULES
J1-J8	FIBER OPTIC INTERCONNECT DETAILS
J9-J11	FIBER OPTIC INTERCONNECT PLANS
K1-K5	AUTOMATED VEHICLE COUNTER (AVC) PLANS AND DETAILS
L1-L2	LANDSCAPE PLANS
L3-L8	LANDSCAPE DETAILS
M1-M3	RETAINING WALL PLANS, PROFILES, AND DETAILS
N1-N11	BRIDGE PLANS
Q1-Q3	ESCP
T1-T3	TRAFFIC CONTROL
V1-V8	STANDARD PLANS

THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:

C-04.12 S-00.12, S-01.02, S-05.02, S-30.05 T-21.04, T-22.04, T-23.01

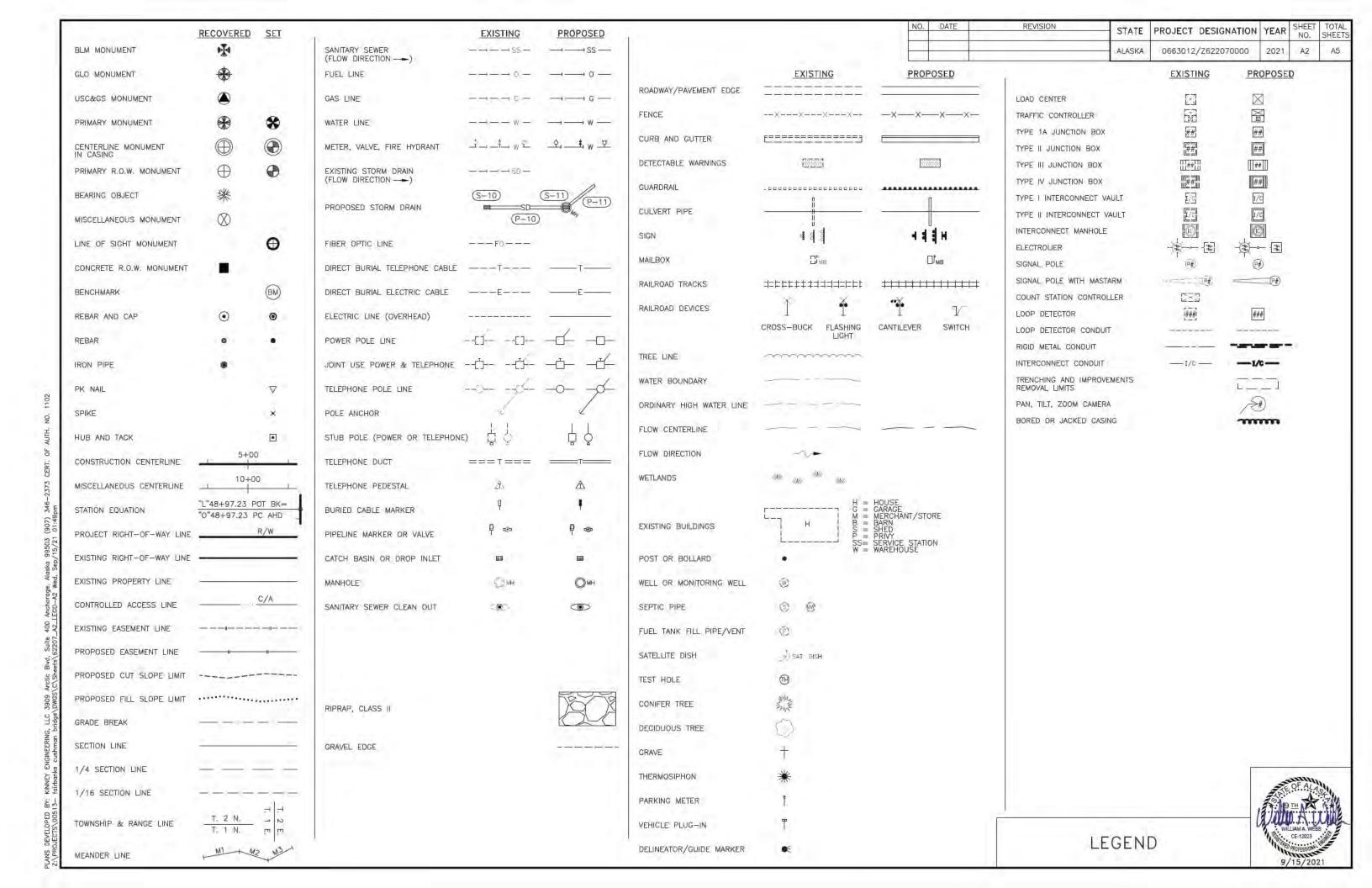
# As-Advertised November 18, 2021 Northern Region

DESIGN DESI	GNATIONS
ADT (2015)	6,255
ADT (2035)	7,630
DHV (13.5%) (2035)	1.030
PERCENT TRUCKS (T)	4%
DIRECTIONAL SPLIT (D)	N/A
DESIGN SPEED (V)	35 MPH
DESIGN ESALs (2035)	571,665

PROJECT SI	JMMARY
WIDTH OF PAVEMENT	36'
LENGTH OF GRADING	350'
LENGTH OF PAVING	415'
LENGTH OF PROJECT	657'

RUSSELL	JOHNSON,	P.E.	-	DOT&PF	PROJECT	MANAGER	
	57	TATE	0	A 1 A	SKV		_





#### LIST OF ABBREVIATIONS/SYMBOLS

© Ø	AT DIAMETER	MTG HT	MOUNTING HEIGHT NORTH, NORTHING
A	AMP	NB	NORTH BOUND
ADA	AMERICANS WITH DISABILITIES REGULATIONS	NCHRP	NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM
APDES APPROX	ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM APPROXIMATELY	NE NEMA	NORTH EAST NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
A.R.R.C.	ALASKA RAILROAD CORPORATION	NO OR #	NUMBER
ASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	NOI	NOTICE OF INTENT
STM SP	AMERICAN SOCIETY FOR TESTING AND MATERIALS ALASKA STANDARD PLANS	NTS	NOT TO SCALE
TB	ASPHALT TREATED BASE COURSE	OC NW	NORTHWEST ON CENTER
TM	ALASKA TRAFFIC MANUAL	OD	OUTSIDE DIAMETER
VC	AUTOMATIC VEHICLE CLASSIFICATION	OHW	ORDINARY HIGH WATER
VE WG	AVENUE AMERICAN WIRE GAUGE	OMNI	OMNI DIRECTIONAL ANTENNA
	AND	OSHA	OPTICAL EMERGENCY VEHICLE PREEMPTION DETECTOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
kB	BALL AND BURLAP	OZ	OUNCE
OP.	BEGINNING OF PROJECT CONDUCTOR	P1	TRAFFIC SIGNAL POLE #
&G	CURB AND GUTTER	PC PCC	POINT OF CURVATURE POINT OF COMPOUND CURVATURE
AL	CALIPER	PE	POLYETHYLENE CONDUIT
AT.	CATALOG	PEC	PHOTOELECTRIC CELL
D/SQ M GP	CANDELA PER SQUARE METER	PEDI	PEDESTRIAN SIGNAL HEAD
GP.	CONSTRUCTION GENERAL PERMIT CENTERLINE	PED B 28 PI	PEDESTRIAN PUSH BUTTON # POINT OF INTERSECTION
MS	CHANGEABLE MESSAGE BOARD SIGN	PPB	PEDESTRIAN PUSH BUTTON
PP	CORRUGATED PLASTIC PIPE	PR	PAIR
SP Y OR CYD	CORRUGATED STEEL PIPE CUBIC YARD	PRC	POINT OF REVERSE CURVATURE
010	DEGREE OF CURVATURE, DIAMETER	PRE 2 PRE CON 2	PREEMPTION # PREEMPTION CONTROLLER #
La.	DELTA ANGLE	PSI CON 2	POUNDS PER SQUARE INCH
EC EMO	DEPARTMENT OF ENVIRONMENTAL CONSERVATION DEMOLISH	PST	PERFORATED STEEL TUBE
ESC	DESCRIPTION	PT	POINT OF TANGENCY
IA	DIAMETER	PVC R	POLYVINYL CHLORIDE RADIUS OF CURVATURE, RANGE
OT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	REQ'D	REQUIRED
RL	DETECTOR REFERENCE LINE EAST, EASTING	RMC	DIGIS VIETU SONDUIT
В	EAST BOUND	ROW OR R/W	
OP	END OF PROJECT	RT SB	RIGHT SOUTH BOUND
SAL	EQUIVALENT SINGLE AXLE LOAD EROSION AND SEDIMENT CONTROL PLAN	SCH	SCHEDULE
TC	ETCETERA	SE	SOUTHEAST
VP	EMERGENCY VEHICLE PREEMPTION	SF SHLDR	SQUARE FOOT
X G	EXISTING	SIG	SHOULDER SERVICE TO CONTROLLER
O	FINISHED GRADE, FIELD GRADE FIBER OPTIC	SMFO	SINGLE MODE FIBER OPTIC
T OR '	FEET	SPCC	SPILL PREVENTION, CONTROL, AND COUNTERMEASURE
A	GAUGE	SPT	STANDARD PENETRATION TEST STAINLESS STEEL
IND IR	GROUND GRADE	ST	STREET
VEA	GOLDEN VALLEY ELECTRIC ASSOCIATION	STD	STANDARD
	HORIZONTAL	SWPPP SY	STORM WATER POLLUTION PREVENTION PLAN SQUARE YARD
IDPE.	HIGH DENSITY POLYETHYLENE	Ť	TANGENT DISTANCE OR TOWNSHIP
HEAD HMA	VEHICULAR SIGNAL HEAD HOT MIX ASPHALT	TC	TRAFFIC CONTROLLER
MCP	HAZARDOUS MATERIAL CONTROL PLAN	TCP TS	TRAFFIC CONTROL PLAN
T.	HEIGHT	TOC	TUBE STEEL TOP OF CURB
/C N OR "	INTERCONNECT	TOW	TOP OF WALL
NTX	INCHES INTERSECTION	TYP	TYPICAL
NTX LTG	SIGNALIZED INTERSECTION LIGHTING	UG UGE	UNDERGROUND ELECTRIC
SI	1,000 POUNDS PER SQUARE INCH	UNC	UNIFIED NATIONAL COURSE
BS	LENGTH OF CURVE, LENGTH POUNDS	USACE	UNITED STATES ARMY CORPS OF ENGINEERS
C	LOAD CENTER	V	VOLT
ED	LIGHT EMITTING DIODE	VPC VPI	VERTICAL POINT OF CURVATURE VERTICAL POINT OF INTERSECTION
F	LINEAR FOOT	VPT	VERTICAL POINT OF TANGENCY
FNC O	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT LOCATION	W	WEST OR WATT
.T	LEFT	W/	WITH
TG	LIGHTING	W/O	WITHOUT WEST BOUND
VC AX	LENGTH OF VERTICAL CURVE MAXIMUM	WT	WEIGHT
ME.	MATCH EXISTING	WGU	WIRE GROUNDING UNIT
AIL	MILLIMETER	WSO YAGI	WEATHER SERVICE OFFICE DIRECTIONAL ANTENNA
AIN	MINIMUM	T.431.71	

AS-BUILT SUMMARY					
PROJECT NAME	NUMBER	YEAR			
ILLINOIS STREET RECONSTRUCTION	STP-F-M-00663(4)/63102	2011			
BARNETTE BRIDGE CONSTRUCTION	STP-00663(9)/62317	2011			
CUSHMAN STREET BRIDGE OVER CHENA RIVER	DUS-0671(2)	1958			
CUSHMAN COMPLETE STREETS	FB-15-07/77194	2015			
ILLINOIS STREET AND COLLEGE ROAD SIGNAL INTERCONNECT	PENDING/NFHWY00345	2020			

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	A3	A5

#### GENERAL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR OWN STAGING AREA.
- 2. PROTECT ALL EXISTING IMPROVEMENTS FROM DAMAGE UNLESS OTHERWISE NOTED
- 3. TIME VEGETATION CLEARING TO COMPLY WITH THE MIGRATORY BIRD ACT.
- SAWCUT ALL MATCH LINES WHERE NEW CONSTRUCTION ABUTS EXISTING ASPHALT PAVEMENT. APPLY STE-1 ASPHALT FOR TACK COAT ON THE VERTICAL FACE OF ALL SAW CUT ASPHALT.
- SAWGUT CONCRETE (SIDEWALK, CURB AND GUTTER, DRIVEWAY, ETC.) AT THE NEAREST JOINT AT OR BEYOND MATCH LIMITS OR AS DIRECTED BY THE ENGINEER.
- VIBRATORY COMPACTION IS NOT PERMITTED NORTH OF CHENA RIVER. SEE SPECIAL PROVISIONS.
- 7. RADIUS POINTS REFERENCE TOP BACK OF CURB.
- APPLY 4—INCHES OF TOPSOIL AND SEED ON ALL AREAS DISTURBED AND NOT COVERED IN ASPHALT, CONCRETE, OR LANDSCAPING MATERIAL, OR WHERE DIRECTED BY THE ENGINEER.
- TO MEET PROVISIONS OF THE CGP, SEEDING MAY REQUIRE MULTIPLE MOBILIZATIONS. ALL MOBILIZATIONS REQUIRED TO MEET THE CGP ARE SUBSIDIARY TO PAY ITEM 641,0003,0000.
- 10. VOID CREATED BY THE REMOVAL OF JUNCTION BOXES, POLES/POSTS OR OTHER EXISTING IMPROVEMENTS SHALL IMMEDIATELY BE BACKFILLED AND COMPACTED WITH MATERIALS AND METHODS, AS APPROVED BY THE ENGINEER, TO PREVENT SETTLEMENT.
- 11. VIBRATORY COMPACTION IS NOT PERMITTED NORTH OF THE CHENA RIVER. USE STATIC COMPACTION TECHNIQUES NORTH OF THE CHENA RIVER. ALL WORK AND RESOURCES FOR STATIC COMPACTION ARE SUBSIDIARY TO THE RESPECTIVE PAY ITEM.

#### GENERAL UTILITY NOTES:

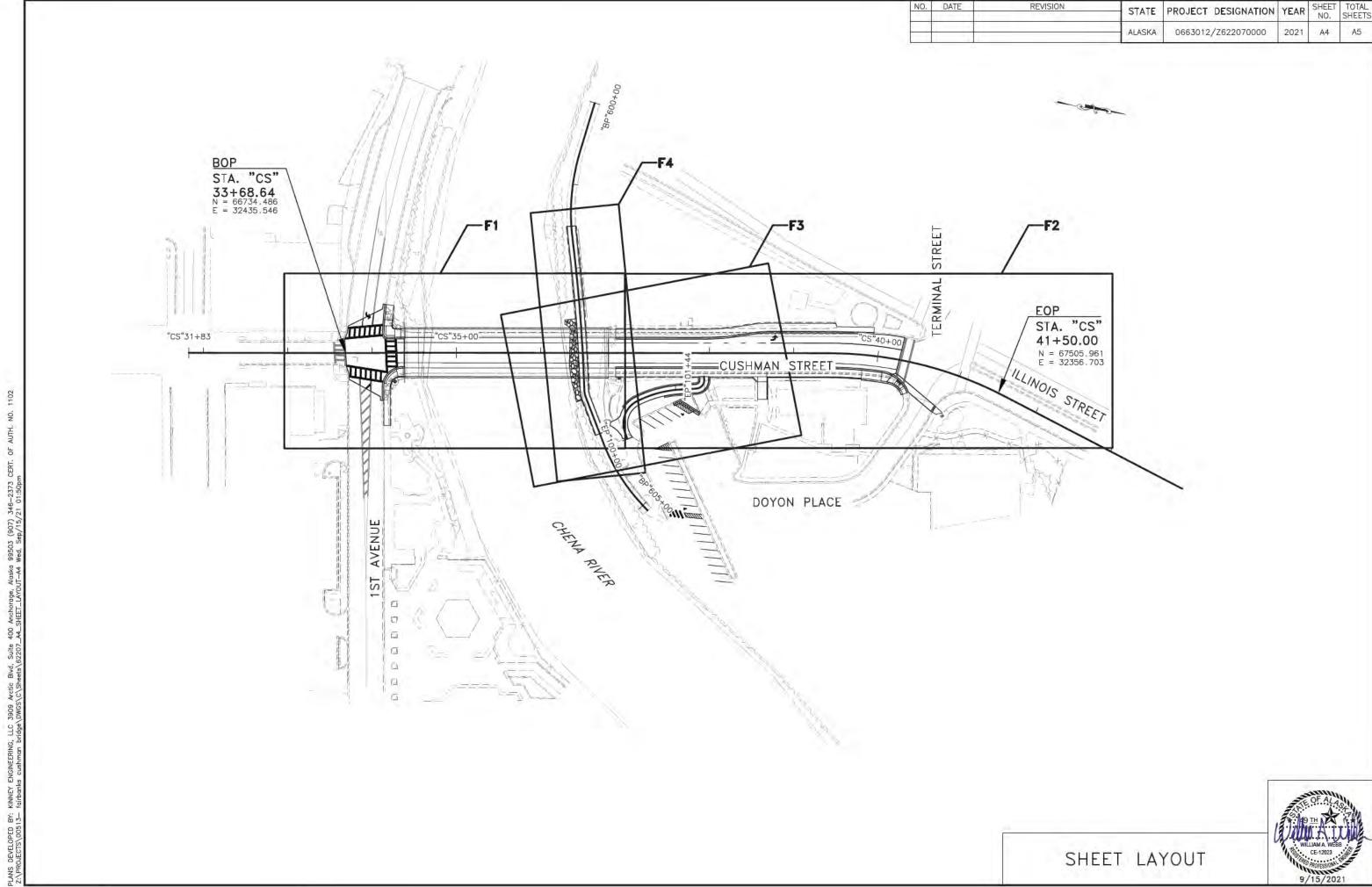
- BURIED AND OVERHEAD UTILITIES EXIST THROUGHOUT THE PROJECT CORRIDOR. LOCATIONS (HORIZONTALLY AND VERTICALLY) DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS AND UTILITY COMPANY LOCATES.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- 3. ALL UTILITIES WITHIN, UNDER, AND OVER THE PROJECT SHALL REMAIN IN PLACE AND IN SERVICE DURING CONSTRUCTION. LOCATE ALL UTILITIES (OVERHEAD AND BURIED) TO THE EXTENT THEY ARE KNOWN OR SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. BEFORE CONDUCTING ANY GROUND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL VERIFY LOCATIONS BY CONTACTING THE DIGLINE AT 1-800-478-3121 OR THE UTILITY COMPANY(S). THERE ARE UTILITIES IN THE PROJECT AREA, INCLUDING CITY OF FAIRBANKS, DOT&PF, AND GVEA, THAT DO NOT SUBSCRIBE TO THE DIGLINE.
- 4. WORK IN CLOSE PROXIMITY TO UNDERGROUND AND OVERHEAD ELECTRICAL SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY.
- 5. HAND DIG WITHIN TWO FEET OF BURIED UTILITIES.
- SUPPORT AND PROTECT UNDERGROUND UTILITIES, CONDUITS, AND STRUCTURES NOT SCHEDULED FOR DEMOLITION OR ABANDONMENT.
- PROTECT, OR REMOVE AND REPLACE IN SAME LOCATION, EXISTING MARKER POSTS FOR UTILITIES DISTURBED DURING CONSTRUCTION.

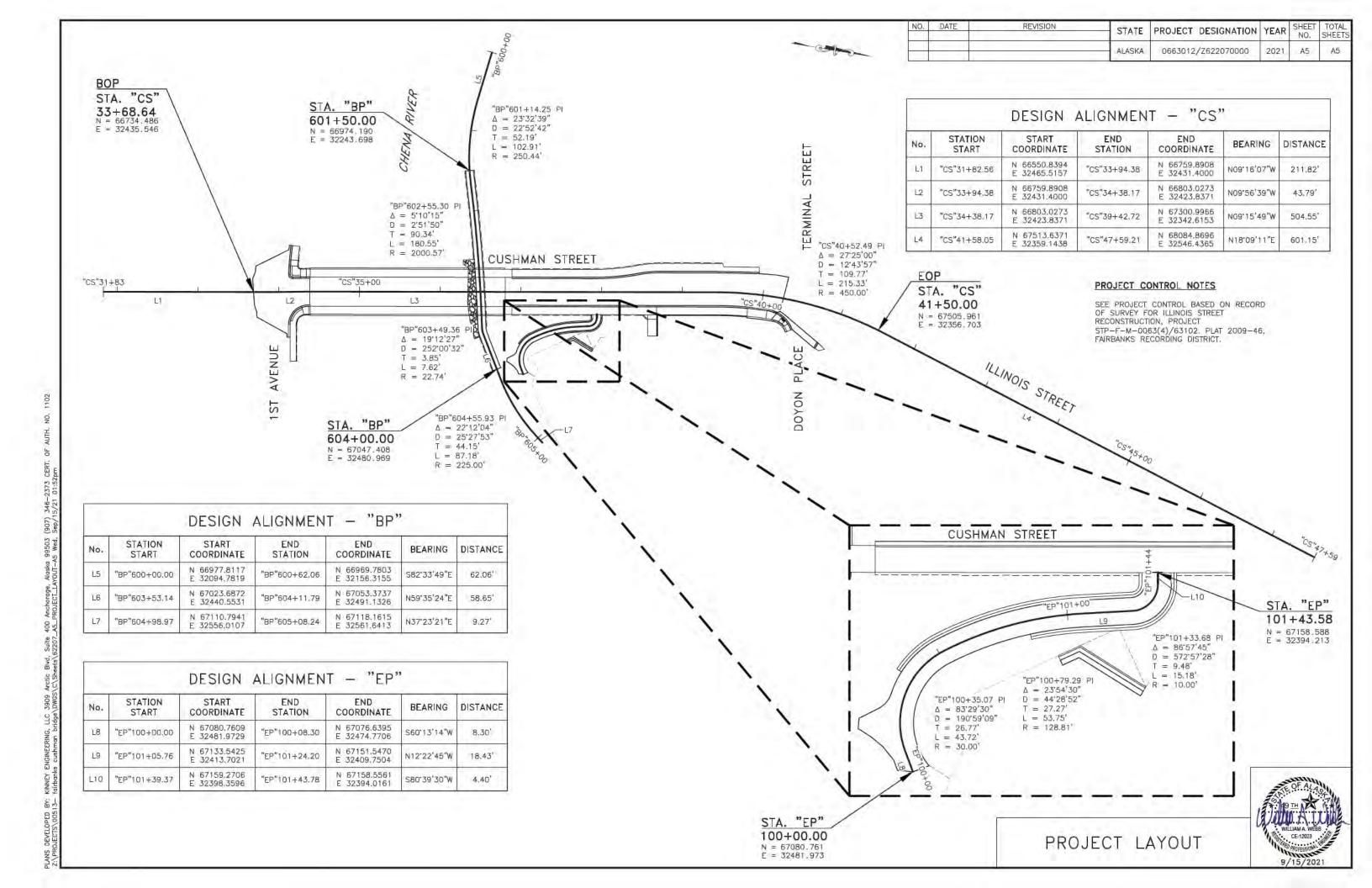
#### ALIGNMENT DESIGNATION:

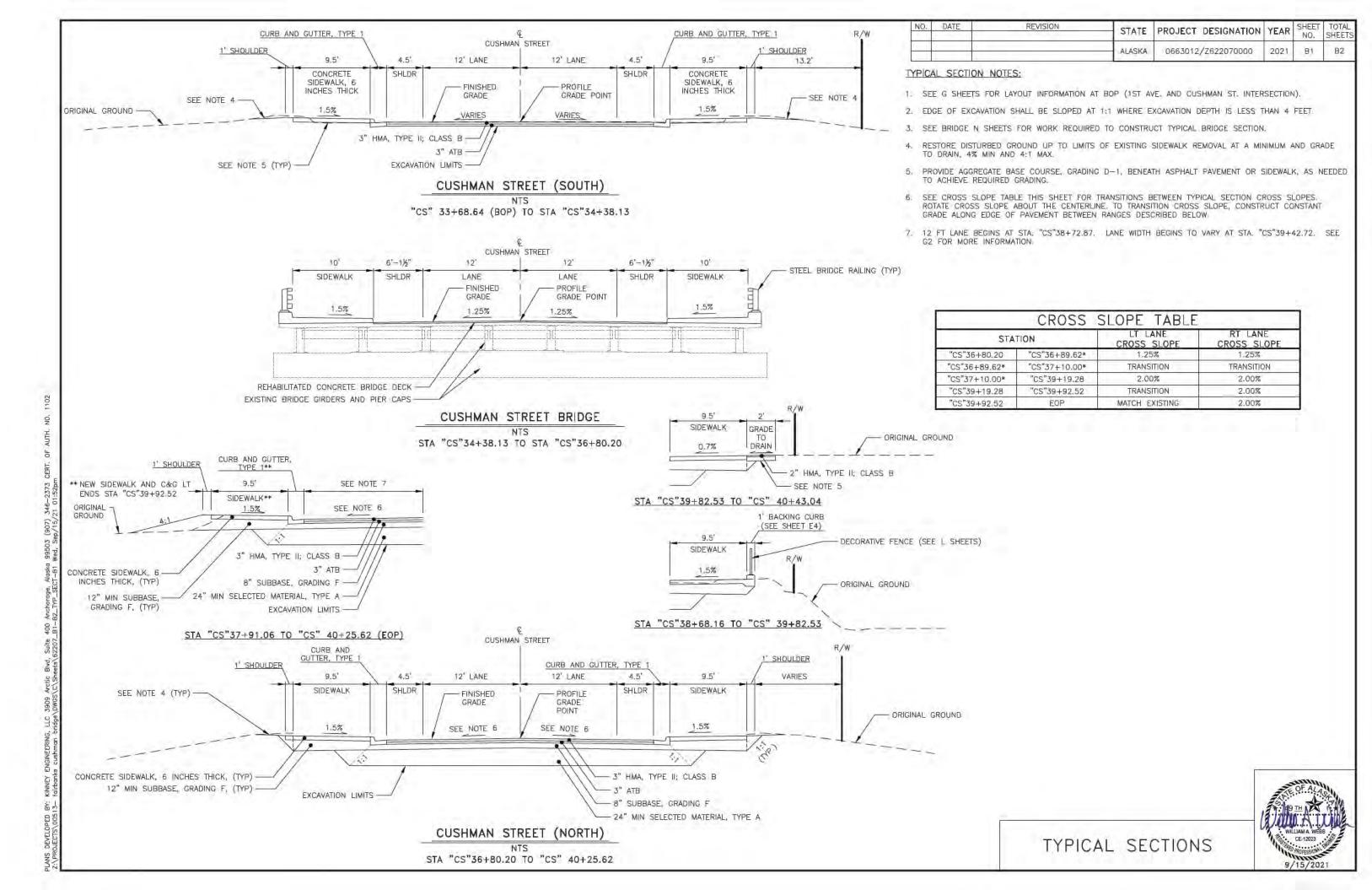
"CS" CUSHMAN STREET
"EP" EAST PATHWAY
"BP" PATHWAY UNDER BRIDGE

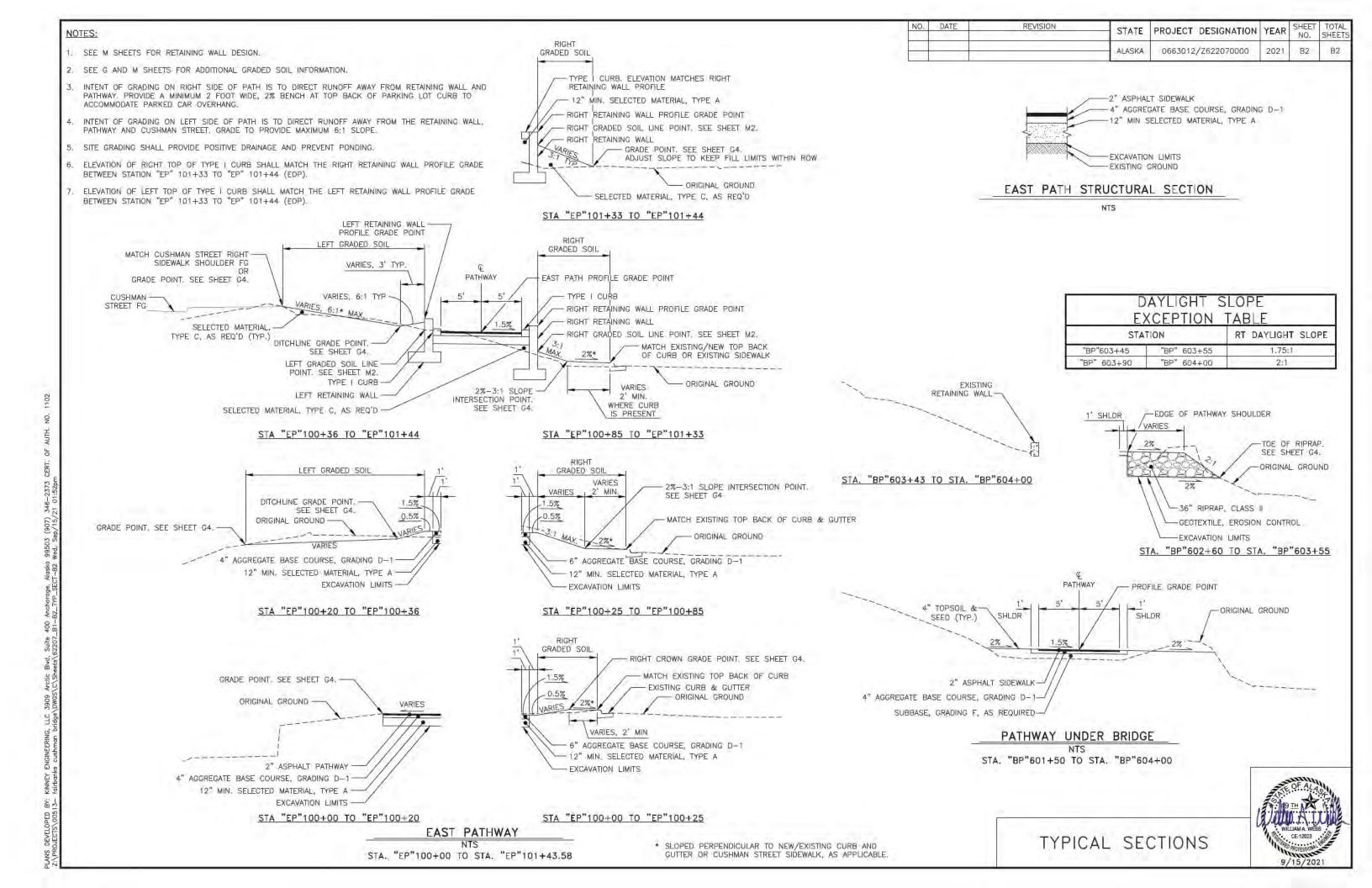
GENERAL NOTES AND ABBREVIATIONS











ITEM NO.	DESCRIPTION	UNIT	то
HEM NO.	DESCRIPTION	UNIT	10
201.0009.0000	CLEARING AND GRUBBING	LUMP SUM	ALL
202,0001_0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL
202.0002.0000	REMOVAL OF PAVEMENT	SQUARE YARD	26
202.0003.0000	REMOVAL OF SIDEWALK	SQUARE YARD	4
202.0008.0000	REMOVAL OF INLET	EACH	
202.0009.0000	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	8
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	29
203.0006.0000	BORROW	TON	31
301.0001.0001	AGGREGATE BASE COURSE, GRADING D-1	TON	1
304.0001.000F	SUBBASE, GRADING F	TON	7.1
306.0001.0000	ATB	TON	3
306.0002.5228	ASPHALT BINDER, GRADE PG 52-28	TON	
401.0001.002B	HMA, TYPE II; CLASS B	TON	3
401.0004.0000	ASPHALT BINDER, GRADE PG 52E-40	TON	2
401.0009.0000	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	
501.0001.0000	CLASS A CONCRETE	LUMP SUM	ALL
501.2001.0000	SPALL REPAIR	SQUARE FOOT	2
501.2005.0000	CAST-IN-PLACE CONCRETE RETAINING WALL	LUMP SUM	ALL
501.2018,0000	CORING CONCRETE	LINEAR FOOT	3
502.0001.0000	POST-TENSIONING, RODS	LUMP SUM	ALL
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LUMP SUM	ALL
503.0003.0000	DRILL AND BOND DOWELS	EACH	3
504.2003.0000	BRIDGE JOINT RESTRAINER UNITS	EACH	4
507.0001.0003	STEEL BRIDGE RAILING, 3-TUBE	LINEAR FOOT	5
507.0002.0000	PEDESTRIAN RAILING POWDER COATED	LINEAR FOOT	6
510.0001.0000	REMOVAL OF CONCRETE BRIDGE DECK	SQUARE FOOT	1.4
510.2001.0000	BRIDGE DECK REPAIR	CONTINGENT SUM	ALL
513.0001.0000	FIELD PAINTING OF STEEL STRUCTURES	LUMP SUM	ALL
516.0001.0000	EXPANSION JOINT, SILICONE	LINEAR FOOT	1
516.0001.0004	EXPANSION JOINT, PRECOMPRESSED SILICONE COATED	LINEAR FOOT	- 4
525.2001.0000	POLYESTER CONCRETE OVERLAY	LUMP SUM	ALL
604.0004.0000	ADJUST EXISTING MANHOLE	EACH	- 3
604.0005.000A	INLET, TYPE A	EACH	
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	9
608.0001.0006	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	-80
608.0002.0000	ASPHALT SIDEWALK	TON	5
608.0006.0000	CURB RAMP	EACH	
609.0001.0001	CURB, TYPE 1	LINEAR FOOT	1
609.0002.0001	CURB AND GUTTER, TYPE 1	LINEAR FOOT	8
611.0001.0001	RIPRAP, CLASS I	CUBIC YARD	5
611.0001.0002	RIPRAP, CLASS II	CUBIC YARD	7
615.0001.0000	STANDARD SIGN	SQUARE FOOT	41
615.0006.0000	SALVAGE SIGN	EACH	311
618.0002.0000	SEEDING SEEDING	POUND	3
620.0001.0000	TOPSOIL	SQUARE YARD	8
a minimum and a halfalan	TREE, BETULA PAPYRIFERA, 1.5" CALIPER, SINGLE STEM	Prince Control of the	
621.0001.0000		EACH	1
621.0002.0000	SHRUB, ROSA ACICULARIS, 24" HEIGHT	EACH	2
621.2007.0000	LANDSCAPE EDGING	LINEAR FOOT	5
621.2013.0000	RESET EXISTING RUBBLE	SQUARE YARD	- 1
622.2005.0000	FLAGPOLE	EACH	5

	ESTIMATE OF QUANTITIES	T	
ITEM NO.	DESCRIPTION	UNIT	TOTAL
627.0010.0000	ADJUSTMENT OF VALVE BOX	EACH	2
631,0002,0001	GEOTEXTILE, EROSION CONTROL, CLASS 1	SQUARE YARD	150
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQ"
641.2000.0000	POLLUTION CONTROL	LUMP SUM	ALL REQ'
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQ"
642.0013.0000	THREE PERSON SURVEY PARTY	CONTINGENT SUM	ALL REQ
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQ'
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQ
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQ'
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQ
643.0032.0000	FLAGGING	CONTINGENT SUM	ALL REQ
643.2005.0000	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQ'
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQ'
644.0006,0000	VEHICLE	LUMP SUM	ALL REQ'
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQ
660.0001.000A	TRAFFIC SIGNAL SYSTEM COMPLETE, 1ST AVE / CUSHMAN ST	LUMP SUM	ALL REQ
660.0001.000B	TRAFFIC SIGNAL SYSTEM COMPLETE, DOYON PL / CUSHMAN ST	LUMP SUM	ALL REQ
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, 1ST AVE TO TERMINAL ST	LUMP SUM	ALL REQ
662.2003.0002	FIBER OPTIC VAULT, TYPE 2	EACH	2
662,2005,0000	FIBER OPTIC INTERCONNECT	LUMP SUM	ALL REQ
669.2007.0000	AUTOMATIC VEHICLE CLASSIFICATION	LUMP SUM	ALL REQ
670.0001.0000	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQ'
670.2002.0000	MMA PAVEMENT MARKINGS, INLAID	LUMP SUM	ALL REQ
670.2003.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL SURFACE APPLIED	LINEAR FOOT	570

ESTIMATING FACTORS					
ITEM NO.	DESCRIPTION	UNIT			
203.0006.0000	BORROW	2.0 TONS / CUBIC YARD			
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	148 LBS. / CUBIC FOOT			
304,0001,000F	SUBBASE, GRADING F	148 LBS. / CUBIC FOOT			
306.0001.0000	ATB	151 LBS. / CUBIC FOOT			
306,0002,5228	ASPHALT BINDER, GRADE PG 52-28	4,5% BY WEIGHT OF 306,0001,0000			
401.0001.002B	HMA, TYPE II; CLASS B	115 LBS, / S.YINCH			
401.0004.0000	ASPHALT BINDER, GRADE 52E-40	5.5% BY WEIGHT OF 401.0001.002B			
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.11 GAL/SY			
618.0002.0000	SEEDING	5 LBS: / 1000 SQUARE FOOT			

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	C2	C2

ITEM NO.	DESCRIPTION	QUANTITY
201.0009.0000	CLEARING AND GRUBBING	9,500 SF
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	SEE SHEET E2
01.0001.0000	CLASS A CONCRETE	179.6 CY
01.2005.0000	CAST-IN-PLACE CONCRETE RETAINING WALL	179 LF
502.0001.0000	POST-TENSIONING, RODS	92 EA
03.0002.0000	EPOXY-COATED REINFORCING STEEL	14.800 LBS
13.0001.0000	FIELD PAINTING OF STEEL STRUCTURES	1,070 SF
25.0001.0000	POLYESTER CONCRETE OVERLAY	20.4 CY
60.0001.0000	TRAFFIC SIGNAL SYSTEM COMPLETE, 1ST AVE / CUSHMAN ST	-5.00
	RUGGEDCOM RS940G ETHERNET SWTICH (EXISTING)	1 EA
	PTZ CAMERAS	1 EA
	12-FIBER ITS DROP CABLE	1 EA
	LC SMFO PATCH CABLE	6 EA
60,0001.0000	TRAFFIC SIGNAL SYSTEM COMPLETE, DOYON PL / CUSHMAN ST	
	RUGGEDCOM RS940G ETHERNET SWTICH (EXISTING)	1 EA
	12-FIBER ITS DROP CABLE (EXISTING)	1 EA
	LC SMFO PATCH CABLE (EXISTING)	6 EA
	PTZ CAMERAS	2 EA
	ENABLE-IT 824WP ETHERNET EXTENDERS	2 EA
360.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, 1ST AVE TO TERMINAL ST	
	TRENCH AND BACKFILL	200 LF
	STEEL CONDUIT 3-INCH	205 LF
	STEEL CONDUIT 2-INCH	710 LF
	STEEL CONDUIT 1-INCH	140 LF
	1-INCH LFMC	10 LF
	JUNCTION BOX TYPE IA	7 EA
	JUNCTION BOX TYPE II	3 EA
	ABOVE GRADE JUNCTION BOX	4 EA
	ADJUST JUNCTION BOX TO FINISH GRADE	4 EA
	3C#8 CONDUCTOR	1675 LF
	3C#6 CONDUCTOR	505 LF
	1C#8 GROUND CONDUCTOR	665 LF
	1C#6 GROUND CONDUCTOR	505 LF
	REMOVE AND RELOCATE EXISTING LIGHT POLE	1 EA
	CONCRETE LIGHT POLE FOUNDATION	1 EA
	REMOVE AND RELOCATE EXISTING PEDESTRIAN LIGHT POLE	1 EA
	CONCRETE PEDESTRIAN LIGHT POLE FOUNDATION	1 EA
	BRIDGE ELECTROLIER AND LUMINAIRE	2 EA
	PEDESTRIAN ELECTROLIER, LUMINAIRE, AND FOUNDATION	2 EA
	LUMINAIRE FEATURE	2 EA

ESTIMATED	LUMP SUM QUANTITIES	S CONTINUED
ITEM NO.	DESCRIPTION	QUANTITY
662.2005.0000	FIBER OPTIC INTERCONNECT	
(SEE NOTE 1.)	VAULT #2 TO WEST	29 LF
	VAULT #2 TO EXISTING VAULT	6 LF
	EXISTING VAULT TO EXISTING TYPE 3 JUNCTION BOX	18 LF
	UNDER CUSHMAN	65 LF
	NEW VAULT #1 TO EAST	54. LF
	VAULT #1 TO VAULT #3	273 LF
	VAULT #3 TO VAULT #4	398 LF
	VAULT #4 TO EXISTING VAULT	4 LF
669.2007.0000	AUTOMATIC VEHICLE CLASSIFICATION	
	3' X 2' TRENCH AND BACKFILL	85 LF
	2-INCH RMC CONDUIT	25 LF
	1-INCH RMC CONDUIT	60 LF
	1C#6 GROUND CONDUCTOR	260 LF
	JUNCTION BOX TYPE IA	1 EA
	JUNCTION BOX TYPE II	1 EA
	LOOP DETECTOR:	4 EA
	1" PVC TUBE	210 LF
	1C#14 CONDUCTOR	840 LF
	7 PR #18	200 LF
	PIEZOMETRIC SENSOR:	4 EA
	RG58 COAXIAL	860 LF
	VINYL TUBE	860 LF
670.0001.0000	PAINTED TRAFFIC MARKINGS	SEE SHEET H1
670.2002,0000	MMA PAVEMENT MARKINGS, INLAID	SEE SHEET H1

- DESCRIPTIONS FOR ITEM 662,2005,0000 ARE EXPECTED INTERCONNECT CONDUIT INSTALLATIONS, THESE DO NOT ENCOMPASS THE ENTIRE INTERCONNECT LUMP SUM PAY ITEM AND SUBSIDIARY WORK, NOTE THE MEASUREMENTS LISTED ARE CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND DO NOT INCLUDE:
  - A. THE FO CABLE PROVIDED BY THE ILLINOIS STREET AND COLLEGE ROAD INTERCONNECT PROJECT.
  - B. THE REQUIRED EXCESS FO CABLE TO BE SUPPLIED AND STORED IN EACH FO VAULT AND SIGNAL CONTROLLER,

SEE THE J SHEETS AND SECTION 662 OF THE SPECIAL PROVISIONS.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	Dİ	D1

 SEE SHEET E2 FOR DEMOLITION SUMMARY TABLES AND SHEET E5 FOR CONCRETE SUMMARY TABLES;

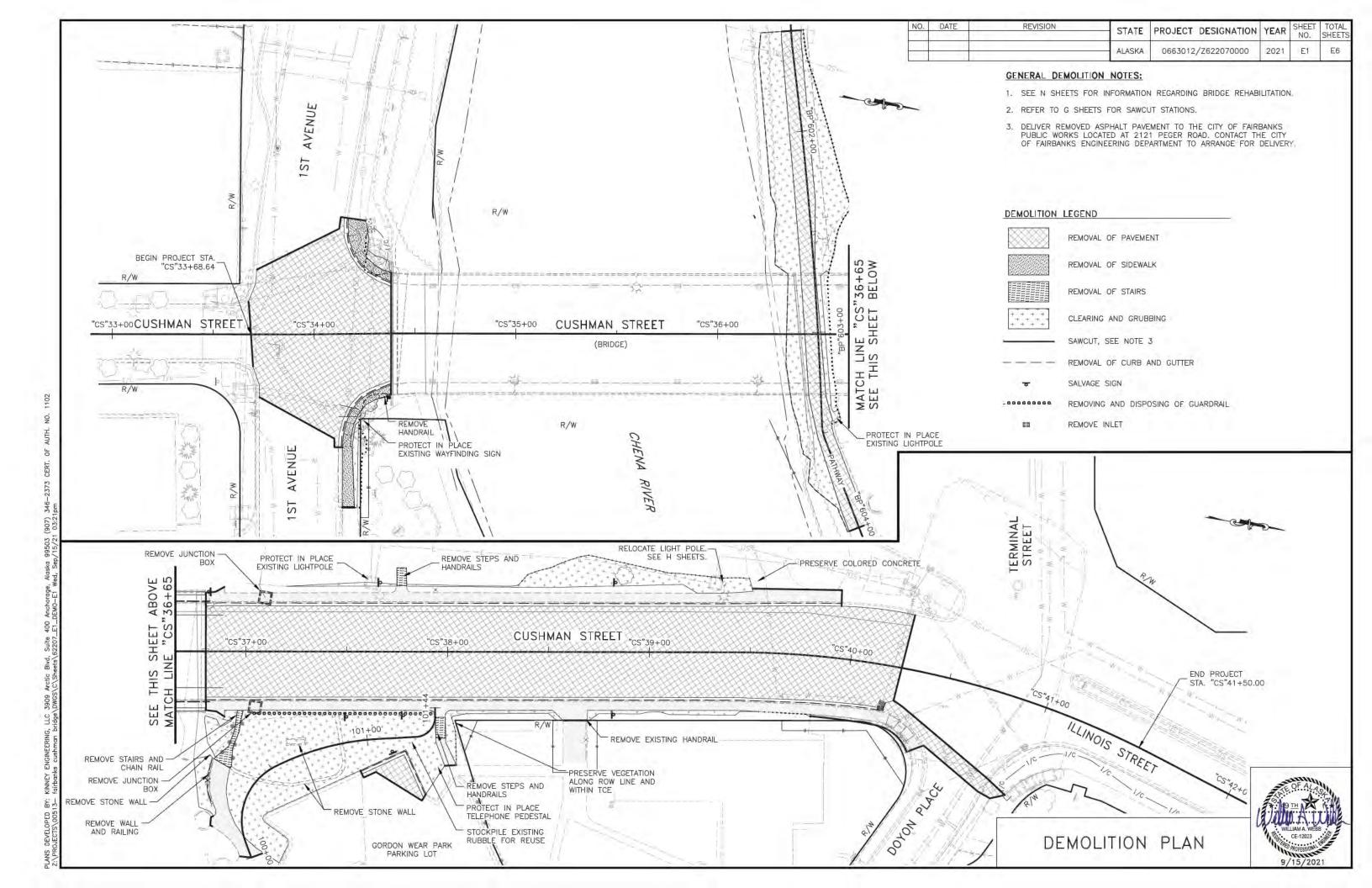
					CLASS B - ADE PG 521	TON & E-40 - TON
SHEET	BEGIN STATION	END STATION	THICKNESS (IN)	401.0001.002B QUANTITY (TON)	401.0004.5240 QUANTITY @ 5% OF HMA (TON)	REMARKS
ET -	"CS"33+68.6	"CS"34+38.1	3	87	4.8	SOUTH OF BRIDGE
E1-F2	"CS"36+80.2	"GS"40+25.6	3	249	13.7	NORTH OF BRIDGE
F1-F2	"CS"39+82.5	"CS"37+88.0	2		0.0	BACK OF SIDEWALK
F2	"CS"40+20.8	"CS"40+84.3	3	7	0.4	ROADWAY
F3	"EP"100+95,1	"EP"101+24.7	2	1	0,0	GORDON WEAR PARKING LOT
			TOTAL	346	19.0	

604.0004.0000			ADJUST	EXISTING	MANHOLE	- EACH
SHEET	STATION	OFFSET			REMARKS	
- E1 -	"CS"33+82.9	5.2' RT		1ST A	ND CUSHMAN INTERS	ECTION
F2	"CS"40+57.8	34.6' RT		DOYON	AND CUSHMAN INTER	RSECTION
	TOTAL:	2				

		604.000	5.000A INLET, TYPE A — EACH
SHEET	STATION	OFFSET	REMARKS
F2	"CS"40+18.9	18,9' RT	SE QUAD DOYON AND CUSHMAN
	TOTAL:	1	

608.0002.0000 ASPHALT SIDEWALK - TON						
SHEET	BEGIN STATION	END STATION	THICKNESS	QUANTITY	REMARKS	
F3	"EP"100+00	"EP"101+43.6	2	20	EAST PATHWAY	
F4	"BP"601+50.0	"BP"604+00.0	2	35	PATHWAY UNDER BRIDGE	
			TOTAL	55		

	627.0	010.0000	ADJUSTMENT OF VALVE BOX — EACH
SHEET	STATION	OFFSET	REMARKS
F2	"CS"39+64.2	RT	ADJUST TO SIDEWALK FG
F2	"CS"40+22.7	RT	ADJUST TO SIDEWALK FG
	TOTAL:	2	



202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS — LUMP SUM							
SHEET	STATION	OFFSET	REMARKS				
E1	"CS"34+34.6	RT	REMOVE HANDRAIL				
E1	"CS"36+77.4	RT	REMOVE STONE WALL				
E1	"CS"36+83.9	RT	REMOVE WALL AND RAILING				
E1	"CS"36+95.7	RT	REMOVE STAIRS AND CHAIN RAIL				
E1	"CS"37+04.6	RT	REMOVE JUNCTION BOX				
E1	"CS"37+09.6	LT.	REMOVE JUNCTION BOX				
E1	"CS"37+24.9	RT	REMOVE CENTER STONE WALL				
E1	"CS"37+45.2	RT	REMOVE OUTER STONE WALL				
E1	"CS"37+77.3	LT	REMOVE STEPS AND HANDRAILS				
E1	"CS"37+96.5	RT	REMOVE STEPS AND HANDRAILS				
E1	"CS"38+68.7	RT	REMOVE HANDRAIL				

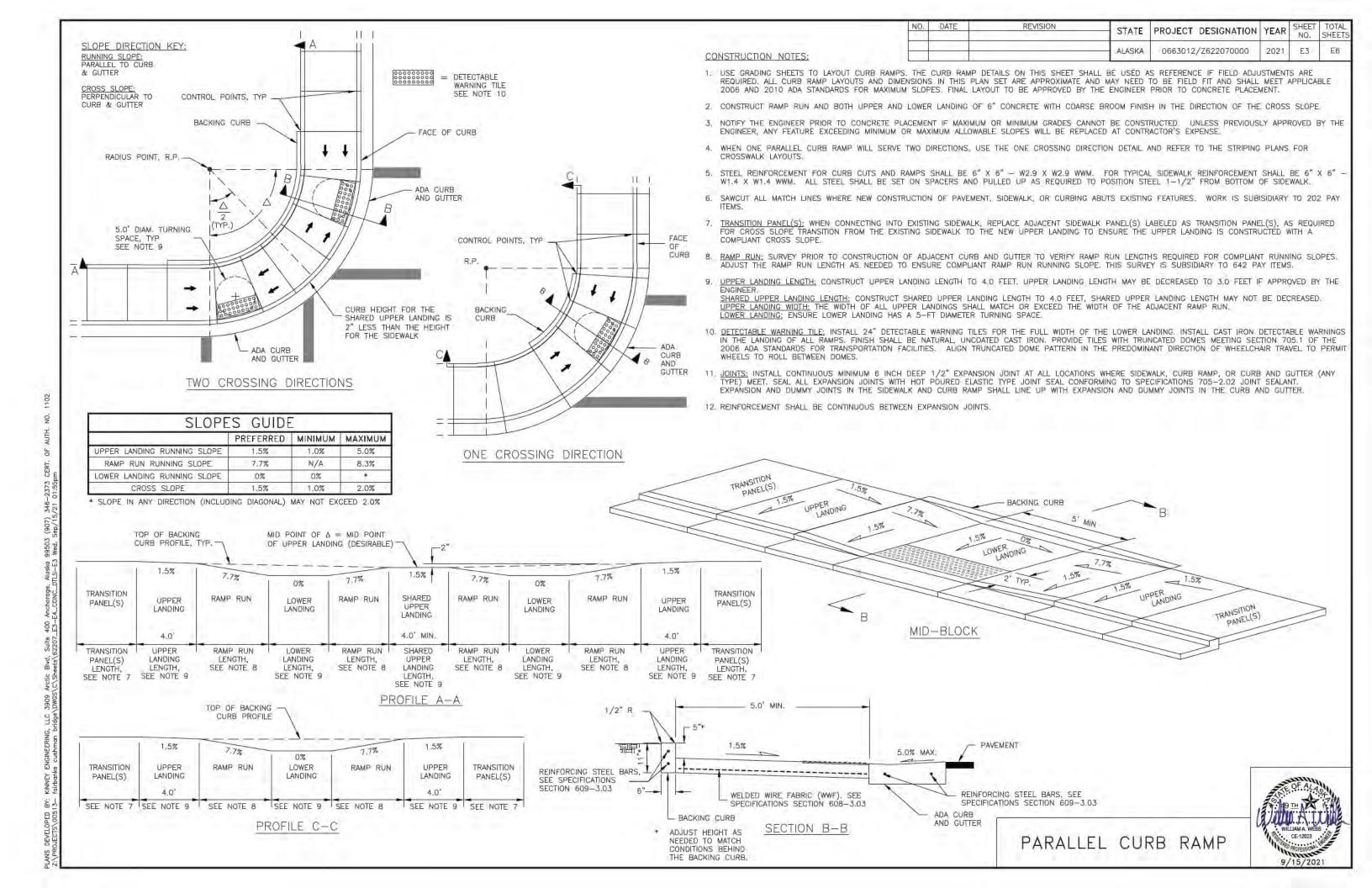
20	02.0002.0000	REMOVAL	OF PAVEMEN	IT — SQUARE YARD
SHEET	BEGIN STATION	END STATION	QUANTITY (SY)	REMARKS
E1	"CS"33+68.6	"CS"34+38.1	578	ROADWAY SOUTH OF BRIDGE
E1	"CS"34+17.4	"CS"34+31.3	7	1ST AND CUSHMAN (RT)
E1	"CS"34+26.0	"CS"34+38.4	7	1ST AND CUSHMAN (LT), BEHIND SIDEWALF
E1	"CS"36+80.2	"CS"40+25.6	1755	ROADWAY NORTH OF BRIDGE
E1	"CS"39+82.5	"CS"40+44.8	13	SW QUAD DOYON AND CUSHMAN BACK OF SIDEWALK
E1	"EP"100+95.1	"EP"101+24.7	27	GORDON WEAR PARKING LOT
E1	"BP"601+50.0	"BP"604+00.0	247	PATHWAY UNDER BRIDGE
E1	"CS"40+24.54	"CS"40+82.20	43	ROADWAY
		TOTAL:	2677	

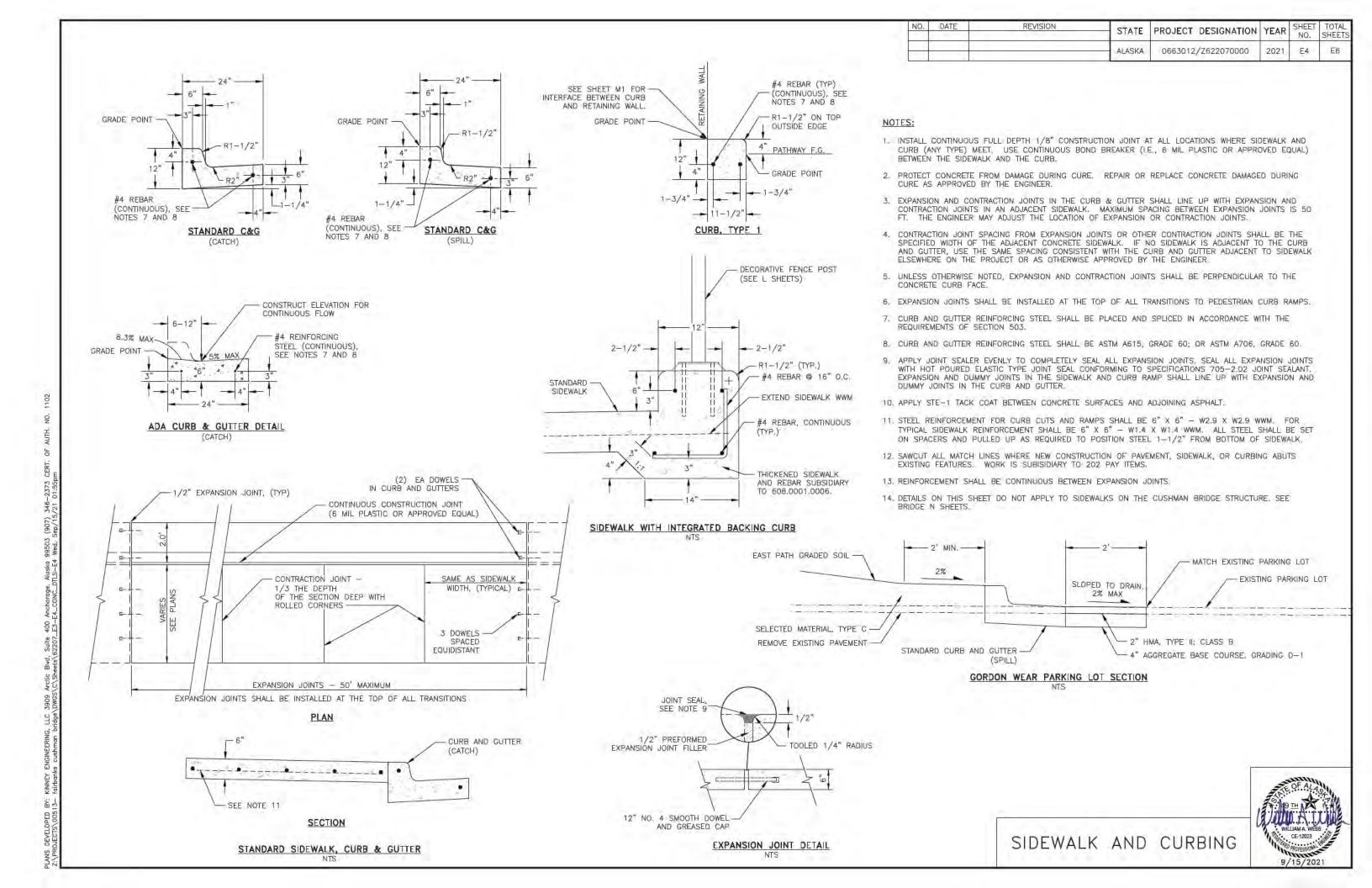
	202.000	3.0000	REMOVAL	OF SI	DEWALK - S	QUARE YARD
SHEET	BEGIN		END		QUANTITY (SY)	DEMARKS
PHEFI	STATION	OFFSET	STATION	OFFSET	QUANTITI (31)	REMARKS
E1	"CS" 34+13.2	86.0' RT	"CS" 34+38.1	25.5' RT	36	NE QUAD 1ST AND CUSHMAN
E1	"CS" 34+17.7	57.3' LT	"CS" 34+38.1	25.7' LT	26	NW QUAD 1ST AND CUSHMAN
Et	'CS" 36+80.0	31.8' RT	'CS" 36+93.0	34.4' RT	3	ADJACENT TO NE WINGWALL
E1	"CS" 36+80.2	24.4' LT	"CS" 39+92.4	27.8' LT	171	NORTH OF BRIDGE
E1	"CS" 36+80.2	24.6' RT	"CS" 40+18.3	23.4' RT	182	NORTH OF BRIDGE
E1	"CS" 36+84.2	53.1' RT	"CS" 37+09.0	99.8' RT	47	EXISTING PATHWAY
E1	"CS" 37+94.2	42,8' RT	"CS" 38+04.5	56.1' RT	8	ADJACENT TO STAIRS
E1	"CS"40+15.2	28.2' RT	"CS"40+44.9	35.4' RT	16	SE QUAD DOYON AND CUSHMAN
E1	"CS" 40+82.3	50.7' RT	"CS" 40+95.1	47.7' RT	6	NE QUAD DOYON AND GUSHMAN
				TOTAL:	495	

		202,000	8.0000 REMOVAL OF INLET - EACH
SHEET	STATION	OFFSET	REMARKS
E1.	"CS"40+18.5	RT	
-	TOTAL:	1	

	202.0009	0000.	REMOVAL	OF CUF	RB AND GUTTE	R - LINEAR FOOT	
SHEET	BEGIN		END		QUANTITY (LF)	REMARKS	
G. (49.)	STATION	OFFSET	STATION	OFFSET		100,000,000	
E1	"CS"34+12.9	56.1' RT	"CS"34+38.1	24.8' RT	44	NE QUAD 1ST AND CUSHMAN	
E1	"CS"34+17.1	57.5' LT	"CS"34+38.1	25.1' LT	43	NW QUAD 1ST AND CUSHMAN	
E1	"CS"36+80.2	24.0' LT	"CS"39+92.4	27.1' LT	316	NORTH OF BRIDGE	
E1	"CS"36+80.2	24.0' RT	"CS"40+18.6	22.8' RT	335	NORTH OF BRIDGE	
E)	"EP"100+94.7	15.1' RT	"EP"101+25.0	28.9° RT	48	GORDON WEAR PARKING LOT	
E1	"CS"40+18.6	22.8' RT	"CS"40+43.7	50.7' RT	28	SE QUAD DOYON AND CUSHMAN	
E1	"CS"40+82.3	50.7' RT	"CS"40+82.3	42.4' RT	8	NE QUAD DOYON AND CUSHMAN	
				TOTAL:	822		

606.	0006.000	O REMO	VING AND	DISPO	SING OF	GUAF	RDRAIL -	LINEAR	FOOT
SHEET	BEGI	N	END	)	QUANTITY (	(i.e.)		CHARVE	
SHEET	STATION	OFFSET	STATION	OFFSET	QUANTITI	(Lr)		REMARKS	
E1	"CS"37+03.8	RT	"CS"37+93.6	RT	90		NORT	H OF BRIDGE	
			TOTAL:		90				





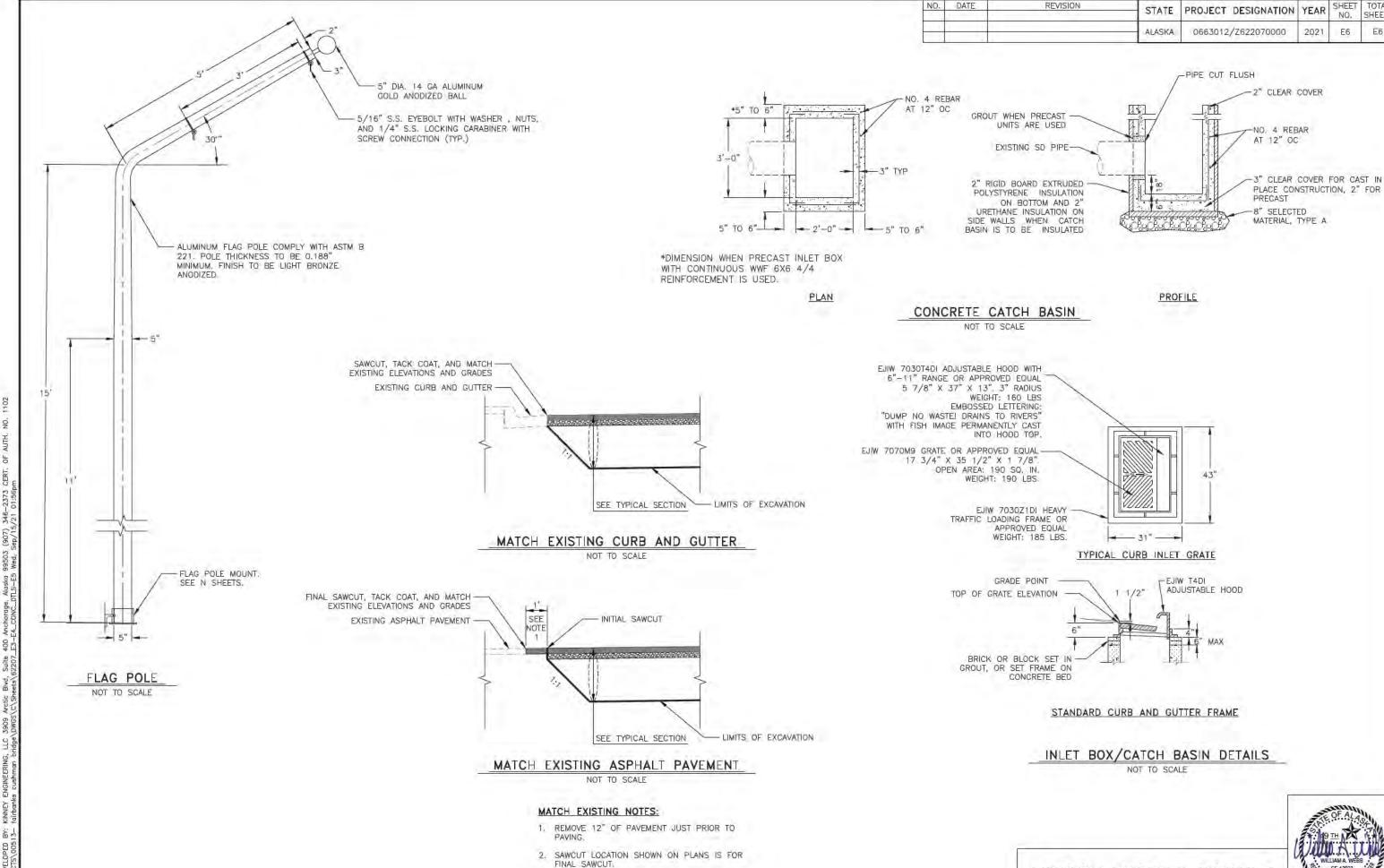
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	E5	E6

	2 3 1 1 2 2 2 2	OUTTO	TE SIPETIO	LIV, U	HOLLS THE	K – SQUARE YAR
SHEET	BEGIN	1	END		QUANTITY (SY)	REMARKS
SHEET	STATION	OFFSET	STATION	OFFSET	DOWNING (21)	REMARKS
F1	"CS" 34+13.1	RT	"CS" 34+38.6	RT	66	NE QUAD 1ST AND CUSHMAN
F1	"CS" 34+17.6	LT	"CS" 34+39.0	LT	55	NW QUAD 1ST AND CUSHMAN
F1-F2	"CS" 36+88.7	RT	"CS" 40+43.0	RT	372	NORTH OF BRIDGE
F1-F2	"CS" 36+88.7	LT	"CS" 39+92.4	LT	306	NORTH OF BRIDGE
F2	"CS" 40+82.3	RT	"CS" 40+95.1	RT	6	NE QUAD DOYON AND CUSHMAN
				TOTAL:	805	

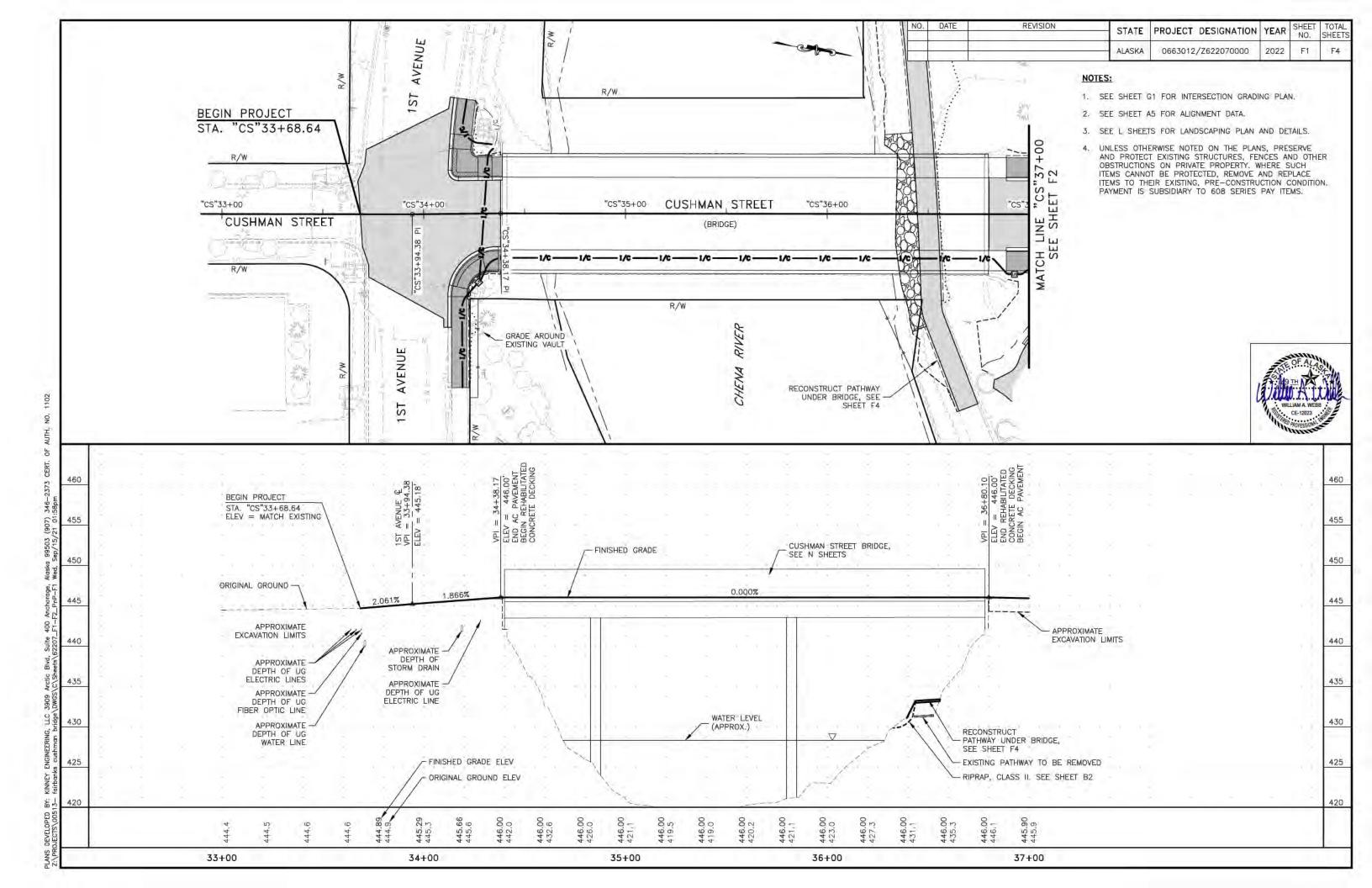
	608.000	6.0000 CURB	RAMP - EACH
SHEET	STATION	OFFSET	REMARKS
F1	"CS"34+15.0	LT	PARALLEL
Ff	"CS"34+20.0	RT	PARALLEL
F2	"CS"40+30.8	RT	PARALLEL
	TOTAL:	3	

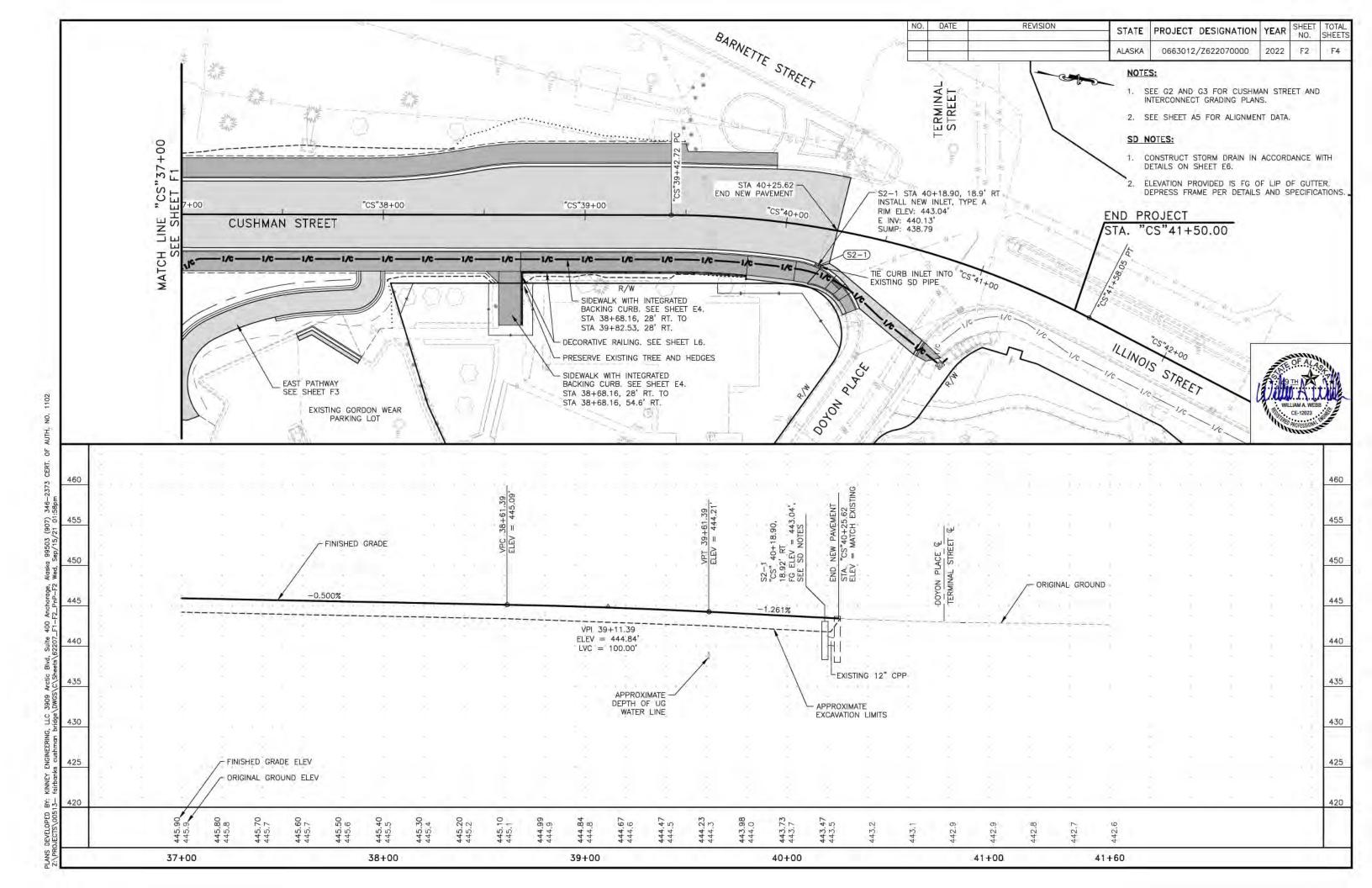
	609.0	0001.000	O1 CURB,	TYPE 1	<ul><li>LINEAR</li></ul>	FOOT
CUEET	BEGI	N	END	).	DUARTITY (LE)	BELLIBRO
SHEET	STATION	OFFSET	STATION	OFFSET	QUANTITY (LF)	REMARKS
F3	"EP"100+36	5,0' LT	"EP"101+44	5,0' LT	105	
F3	"EP"100+85	5.0' RT	"EP"101+44	5.0' RT	67	
				TOTAL:	172	

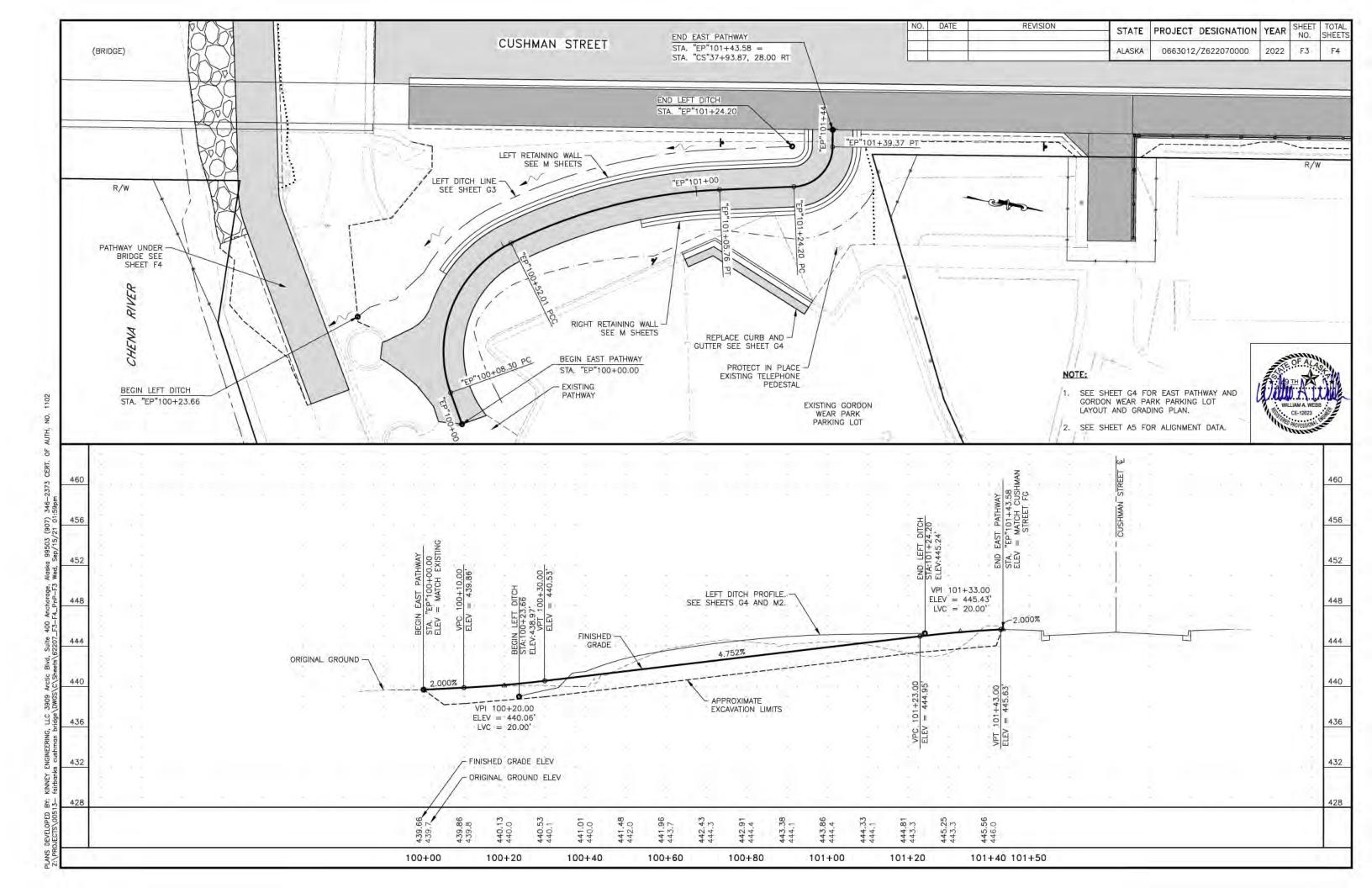
CHEET	BEG	N	END		QUANTITY (LF)	DELUIDIO.	
SHEET	STATION	OFFSET	STATION	OFFSET	QUANTITY (LF)	REMARKS	
F1	"CS"34+12.8	56.1' RT	"CS"34+39.0	18.0' RT	54	NE QUAD 1ST AND CUSHMAN	
F1	"CS"34+17.3	57.4' LT	"CS"34+39,1	18.5' LT	64	NW QUAD 1ST AND CUSHMAN	
F1-F2	"CS"36+88.7	18.0' RT	"CS"40+43.5	36.1' RT	357	NORTH OF BRIDGE	
F1-F2	"CS"36+88.7	18.0 LT	"CS"39+92.1	27.3' LT	307	NORTH OF BRIDGE	
F2	"CS"37+57.1	59.3' RT	"CS"37+89.1	70.8' RT	37	GORDON WEAR PARKING LOT	
F2	"CS"40+81.5	50.4' RT	"CS"40+83.6	42.9' RT	8	NE CORNER OF DOYON AND CUSHMAN	
				TOTAL	827		

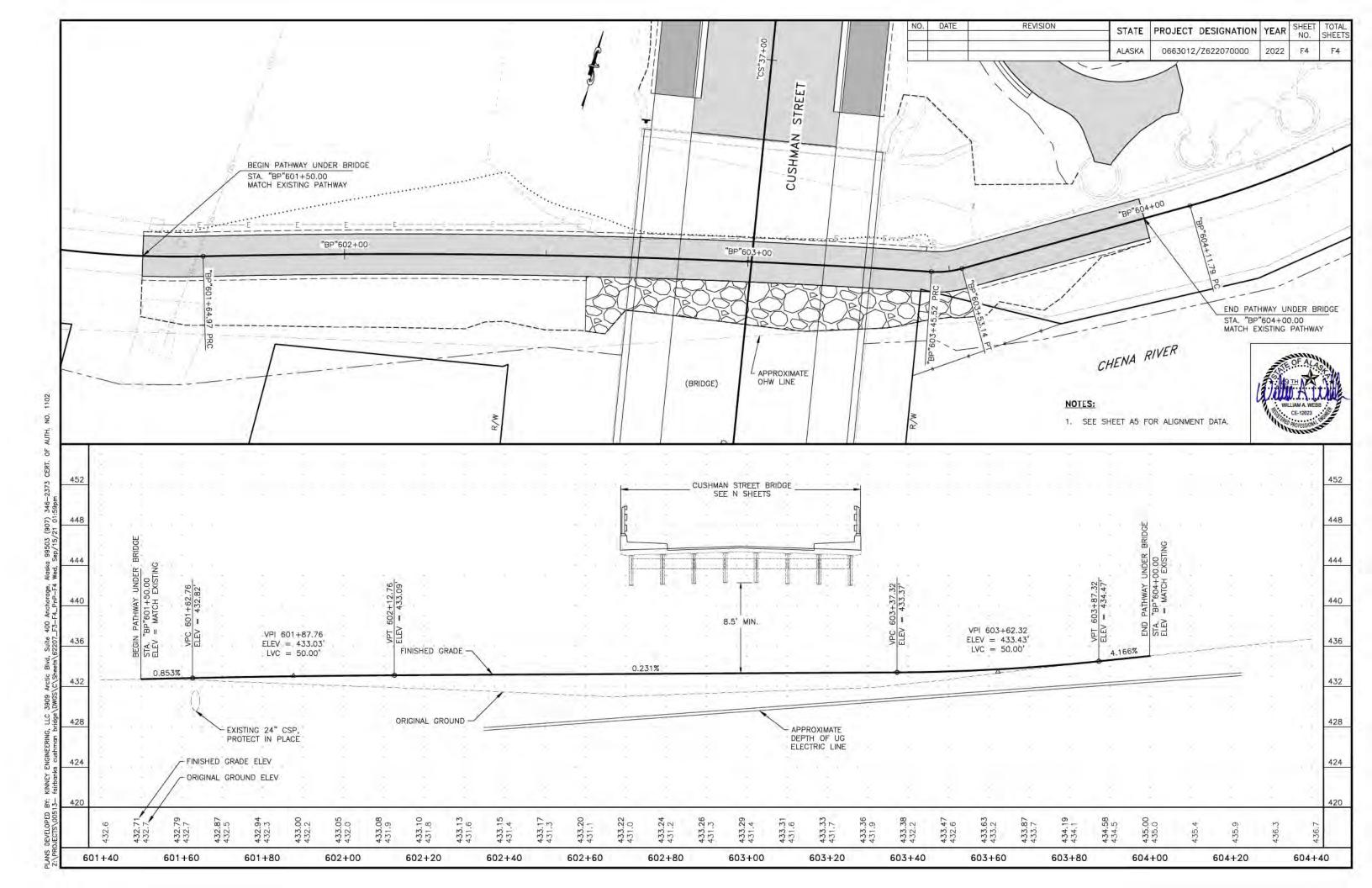


MISCELLANEOUS DETAILS









PT#	STATION	OFFSET	ELEV	DESCRIPTION
100	"CS"34+17.65	57.33' LT	ME	BEGIN NEW SIDEWALK AND CURB AND GUTTER
101	"CS"34+26.22	56.05' LT	ME	BEGIN NEW SIDEWALK, TOP BACK OF SIDEWALK
102	"CS"34+15.60	39.49' LT	445.77	BEGIN RAMP
103	"CS"34+15.02	32.38' LT	445.57	END RAMP, BEGIN LANDING
104	"CS"34+23.66	31.75' LT	445.69	PC, END RAMP, BEGIN LANDING, TOP BACK OF SIDEWALK
105	"CS"34+14.39	21.63' LT	445.60	PCC
106	"CS"34+17.39	18.50' LT	445.63	PT
107	"CS"34+27.15	18.50' LT	445.67	END LANDING, BEGIN RAMP
108	"CS"34+27.15	28.00' LT	445.80	PT, END LANDING, BEGIN RAMP, TOP BACK OF SIDEWALK
109	"CS"34+34.15	18.50' LT	446.16	END RAMP
110	"CS"34+39,01	18.51' LT	445.79	END SIDEWALK AND CURB AND GUTTER
111	"CS"34+39.02	28.00' LT	446.33	END SIDEWALK, TOP BACK OF SIDEWALK
120	"CS"34+39.01	18.49' RT	445.79	END RAMP, SIDEWALK, AND CURB AND GUTTER
121	"CS"34+39.05	28.00' RT	446.33	END SIDEWALK, TOP BACK OF SIDEWALK
122	"CS"34+36.85	18.50' RT	446.13	PŢ
123	"CS"34+36.85	28.00' RT	446.29	PT, TOP BACK OF SIDEWALK
124	"CS"34+28.67	19.76' RT	445.69	END LANDING, BEGIN RAMP
125	"CS"34+14.92	33.41' RT	445.48	END RAMP, BEGIN LANDING
126	"CS"34+13.61	40.99' RT	445.65	PC, BEGIN RAMP
127	"CS"34+20,97	41.07' RT	445.69	PC, BEGIN RAMP, TOP BACK OF SIDEWALK
128	"CS"34+20.57	86.13' RT	ME	BEGIN NEW SIDWALK, TOP BACK OF SIDEWALK
129	"CS"34+13.12	86.12' RT	ME	BEGIN NEW SIDEWALK
130	"CS"34+13.44	56.14' RT	ME	BEGIN NEW CURB AND GUTTER
140	"CS"34+09.42	56.11' RT	ME	SAWCUT
141	"CS"34+09.45	51.78' RT	ME	SAWCUT
142	"CS"33+72.85	31.14' RT	ME	SAWCUT
143	"CS"33+69.72	16.03' RT	ME	SAWCUT
144	"CS"33+67.39	16.25' LT	ME	SAWCUT
145	"CS"33+71.51	32.04' LT	ME	SAWCUT
146	"CS"34+12.96	52.16' LT	ME	SAWCUT
147	"CS"34+13.81	57.90' LT	ME	SAWCUT

(104)	EXISTING BRIDGE ABUTMENT, SEE NOTE 1  PROTECT IN PLACE TRAFFIC SIGNAL AND RELATED APPURTENANCES  PROTECT IN PLACE EXISTING WAYFINDING SIGN  128
300 TOS	15T AVENUE
ADJUST EXISTING MANHOLE  A45  A45  A45  A45  AA5  AA5  AA5  AA	R/W

NO. DATE

REVISION

STATE PROJECT DESIGNATION YEAR

0663012/Z622070000

G1

ALASKA

RADIUS POINT TABLE							
PT#	STATION	OFFSET	RADIUS				
300	"CS"34+27.15	31.50' L	3.0'				
301	"CS"34+17.39	21.50' L	3.0'				
302	"CS"34+36.11	41.00' R	22.5'				
303	"CS"34+32.97	39.99' R	12.0				
304	"CS"37+94.05	9.23' L	380.1				

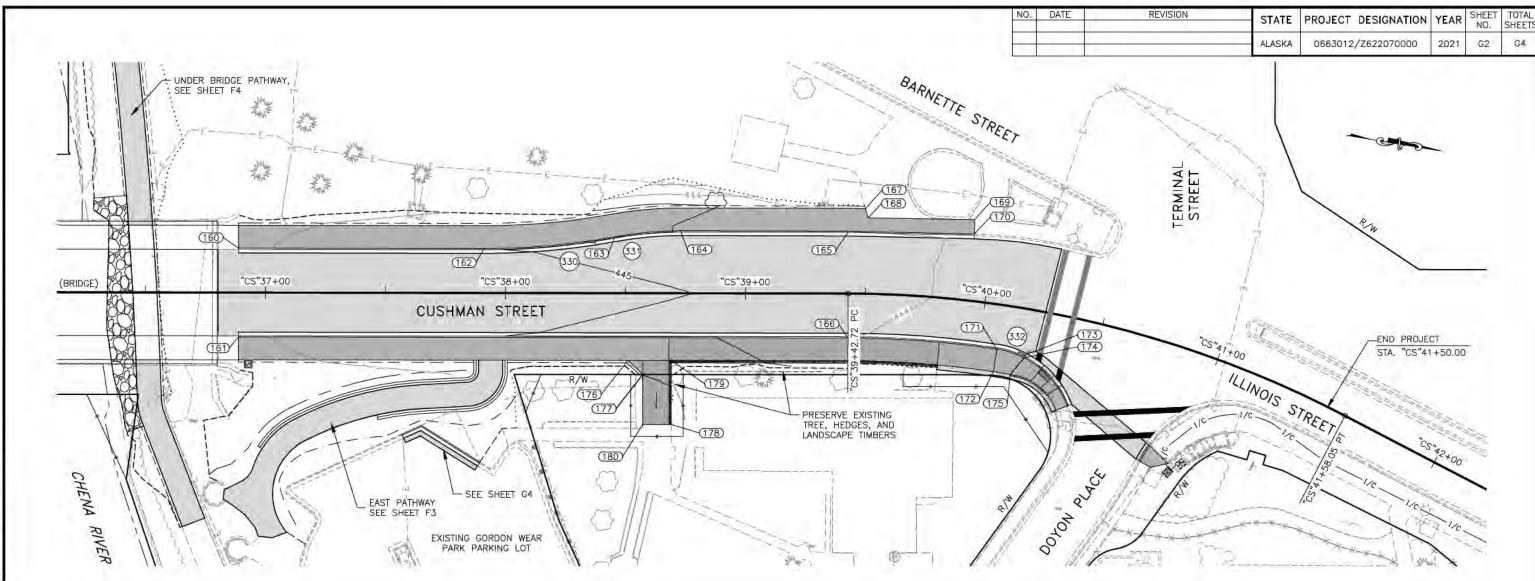
148 "CS"34+21.57 86.13' RT ME END SIDEWALK SHOULDER

# NOTES:

- 1. THE EXISTING SIDEWALK IS INTEGRAL WITH THE EXISTING BRIDGE ABUTMENT, SEE BRIDGE N SHEETS FOR MODIFICATIONS TO ABUTMENT.
- 2. POINTS REFERENCE TOP BACK OF CURB UNLESS OTHERWISE NOTED







PT#	STATION	OFFSET	ELEV	DESCRIPTION
160	"CS"36+88,78	18.50' LT	446.22	BEGIN SIDEWALK AND CURB AND GUTTER
161	"CS"36+88.78	18.50' RT	446.15	BEGIN SIDEWALK AND CURB AND GUTTER
1,62	"CS"37+91,06	18.50' LT	445.59	PC
163	"CS"38+45.51	23.49' LT	445.22	PRC
164	"CS"38+72.87	26.00' LT	445.02	PT
165	"CS"39+42.72	25.47' LT	444.50	PI, BEGIN TAPER TO MATCH EXISTING
166	"CS"39+42.72	18.50' RT	444.58	PC
167	"CS"39+49.41	35.40° LT	ME	PI, TOP BACK OF SIDEWALK
168	"CS"39+50,53	31,61' LT	ME	PI, TOP BACK OF SIDEWALK
169	"CS"39+91.89	33.76' LT	ME	END NEW SIDEWALK, TOP BACK OF SIDEWALK
170	"CS"39+92.36	27.80° LT	ME	END TAPER, NEW SIDEWALK, AND CURB AND GUTTER

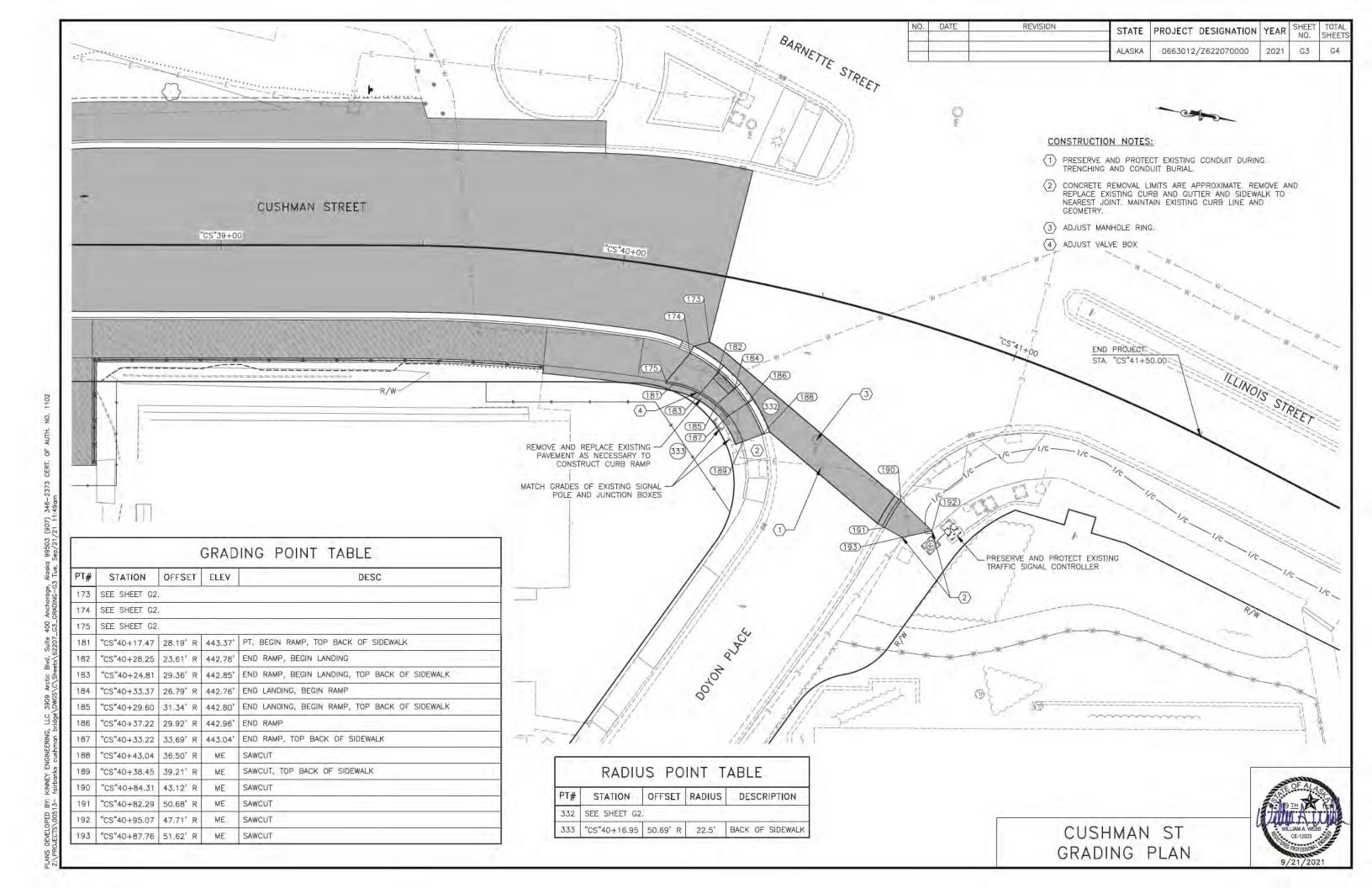
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PT#	STATION	OFFSET	ELEV	DESCRIPTION	
171	"CS"40+07.67	18.50' RT	443.70	PC	
172	"CS"40+07.67	28.00' RT	443.76	PI, TOP BACK OF SIDEWALK	
173	"CS"40+24.53	16.71' RT	ME	SAWCUT	
174	"CS"40+20.15	20.28' RT	443.36	BEGIN RAMP	
175	"CS"40+15.23	28.16' RT	443.53'	BEGIN RAMP	
176	"CS"38+51.12	28.00' RT	445.35	PI, TOP BACK OF SIDEWALK	
177	"CS"38+57.29	33.88' RT	ME	PI, TOP OF SIDEWALK	
178	"CS"38+69.16	54.64' RT	ME	END NEW SIDEWALK	
179	"CS"38+69.24	28,00' RT	445.26	PI, TOP BACK OF SIDEWALK	
180	"CS"38+69.16	54.64' RT	ME	END NEW SIDEWALK	

R	ADIUS PO	INT TA	BLE
PT#	STATION	OFFSET	RADIUS
330	"CS"37+91.06	318.00' L	299.5
331	"CS"38+72.87	124.50' R	150.5
332	"CS"40+07-67	55.50' R	37.0

- THE EXISTING SIDEWALK IS INTEGRAL WITH THE EXISTING BRIDGE ABUTMENT. SEE BRIDGE N SHEETS FOR MODIFICATIONS TO ABUTMENT.
- 2. POINTS REFERENCE TOP BACK OF CURB UNLESS OTHERWISE NOTED

CUSHMAN ST GRADING PLAN

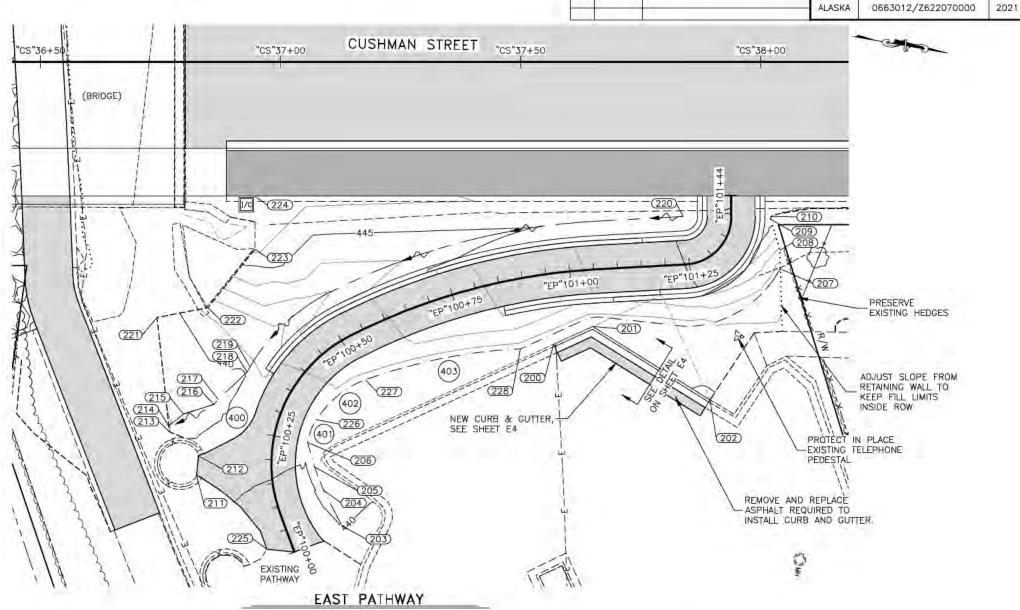




PT#	STATION	OFFSET	ELEV	DESCRIPTION
200	"EP"100+94.52	14.69' R	440.39"	BEGIN NEW CURB AND GUTTER
201	"EP"101+03.99	11.84' R	440.45	PI
202	"EP"101+25.11	28.61' R	440.11	END NEW CURB AND GUTTER
203	"EP"100+01.66	11.13' R	440.03	RT CROWN GRADE PT
204	"EP"100+10.80	10.08' R	440.25"	RT CROWN GRADE PT
205	"EP"100+18.22	8.95' R	440,31	RT CROWN GRADE PT
206	"EP"100+25.00	7.10' R	440.34	RT CROWN GRADE PT
207	"EP"101+34.43	13.00' R	ME	GRADE PT
208	"EP"101+36.00	11.35' R	ME	GRADE PT
209	"EP"101+39.04	8.30' R	ME	GRADE PT
210	"EP"101+39.37	8.30' R	ME	GRADE PT
211	"EP"100+17.50	15.65' L	ME	EDGE OF PAVEMENT
212	"EP"100+20.19	15.22' L	ME	EDGE OF PAVEMENT
213	"EP"100+22.96	21.69' L	438.96	DITCHLINE, BEGIN
214	"EP"100+23.66	22.00' L	438.97	DITCHLINE
215	"EP"100+25.42	19.46' L	439.17"	DITCHLINE
216	"EP"100+27.68	13.80' L	439.38"	DITCHLINE
217	"EP"100+28.55	13.24' L	439.46	DITCHLINE
218	"EP"100+34.03	10.00' L	440.15	DITCHLINE
219	"EP"100+35.00	10.00' L	440,54	DITCHLINE
220	"EP"101+39.37	10.00' L	445.24	DITCHLINE, END
221	"EP"100+34.53	31.89' L	ME	GRADE PT
222	"EP"100+38.42	24.15' L	ME	GRADE PT
223	"EP"100+46.94	25.90' L	ME	GRADE PT
224	"EP"100+49.98	35.04° L	MATCH	CUSHMAN ST FG, EDGE OF GRADIN
225	"EP"100+02.55	5.22' L	ME	EDGE OF PAVEMENT
226	"EP"100+31.66	7.33' R	440.42	2% - 3:1 SLOPE INTERCEPT PCC
227	"EP"100+50.06	9.63' R	440.54	2% - 3:1 SLOPE INTERCEPT PCC
228	"EP"100+86.65	14.45' R	440.60"	2% - 3:1 SLOPE INTERCEPT PT

	RAD	IUS P	OINT	TABLE
PT#	STATION	OFFSET	RADIUS	DESCRIPTION
400	"EP" 100+28.55	15.00° L.	10.0"	EDGE OF PAVEMENT
401	"EP" 100+26.95	18.62' R	~11.5'	2% - 3:1 SLOPE INTERCEPT
402	"EP" 100+07.34	26.36' R	~21.0	2% - 3:1 SLOPE INTERCEPT
403	"CS" 37+54.13	163.88' R	~104.1"	2% - 3:1 SLOPE INTERCEPT

- INTENT OF GRADING ON RIGHT SIDE OF EAST PATHWAY IS TO DIRECT RUNOFF AWAY FROM RETAINING WALL AND PATHWAY. PROVIDE A MINIMUM 2 FOOT WIDE, 2% BENCH AT TOP BACK OF PARKING LOT CURB TO ACCOMMODATE PARKED CAR OVERHANG.
- INTENT OF GRADING ON LEFT SIDE OF EAST PATHWAY IS TO DIRECT RUNOFF AWAY FROM THE RETAINING WALL, PATHWAY, AND CUSHMAN STREET. GRADE TO PROVIDE MAXIMUM 6:1 SLOPE.
- 3. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AND PREVENT FONDING.
- 4. SEE SHEET B2 FOR DEFINITION OF "2%-3:1 SLOPE INTERCEPT".



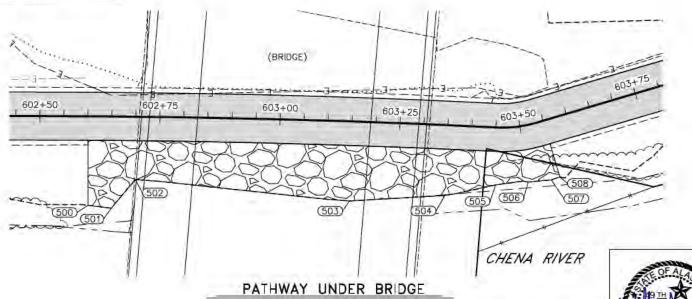
NO. DATE

REVISION

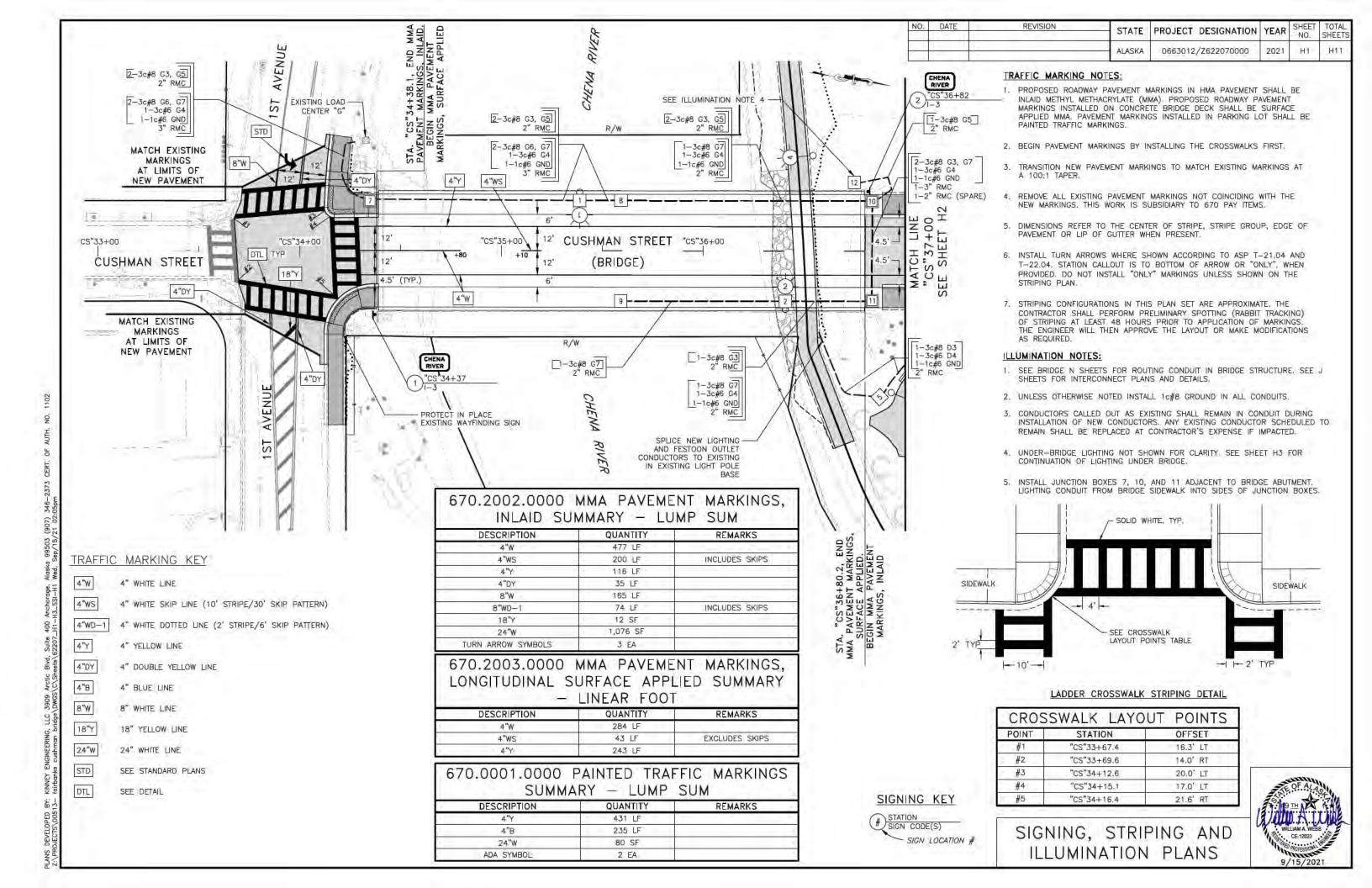
STATE PROJECT DESIGNATION YEAR

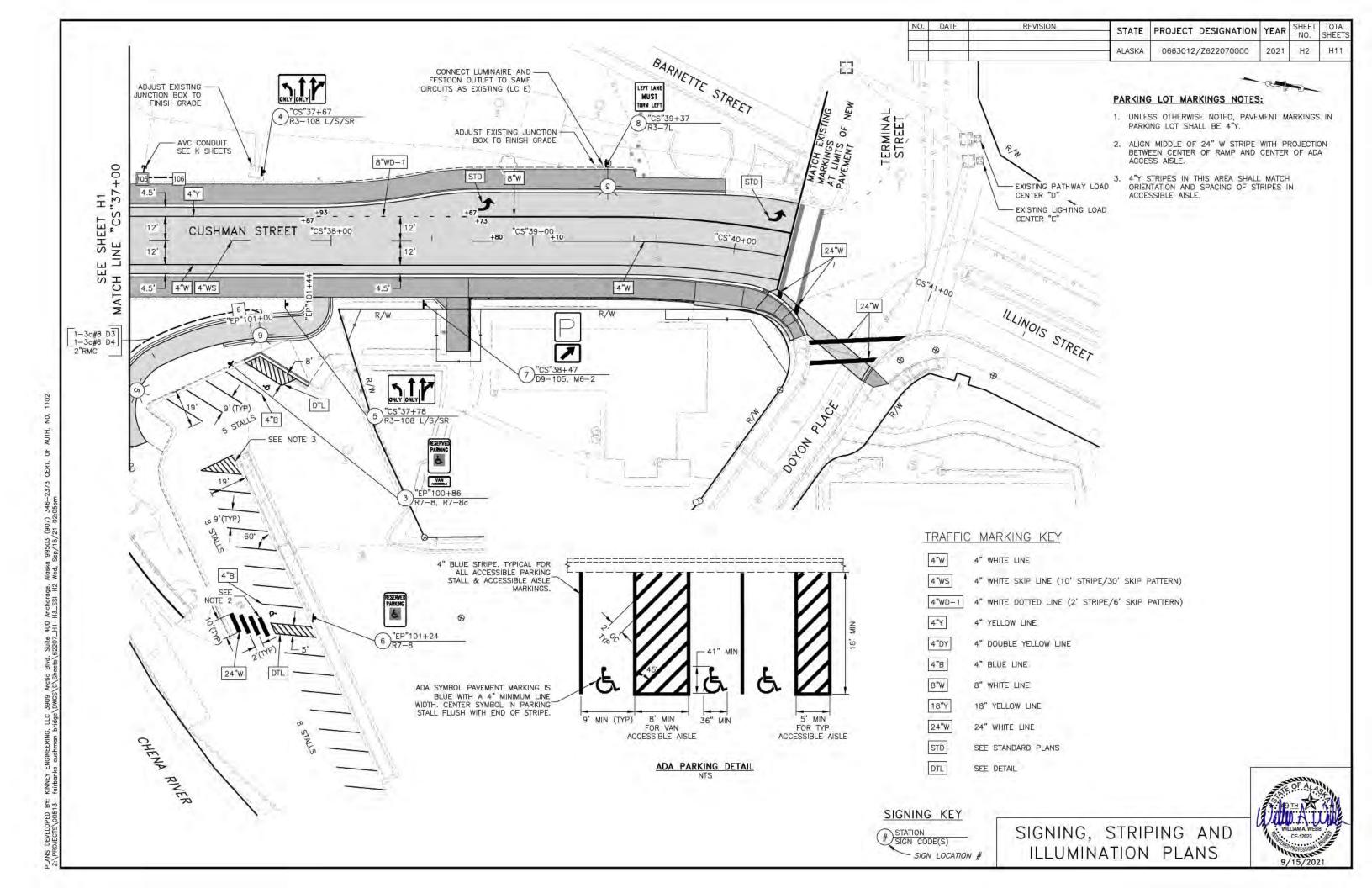
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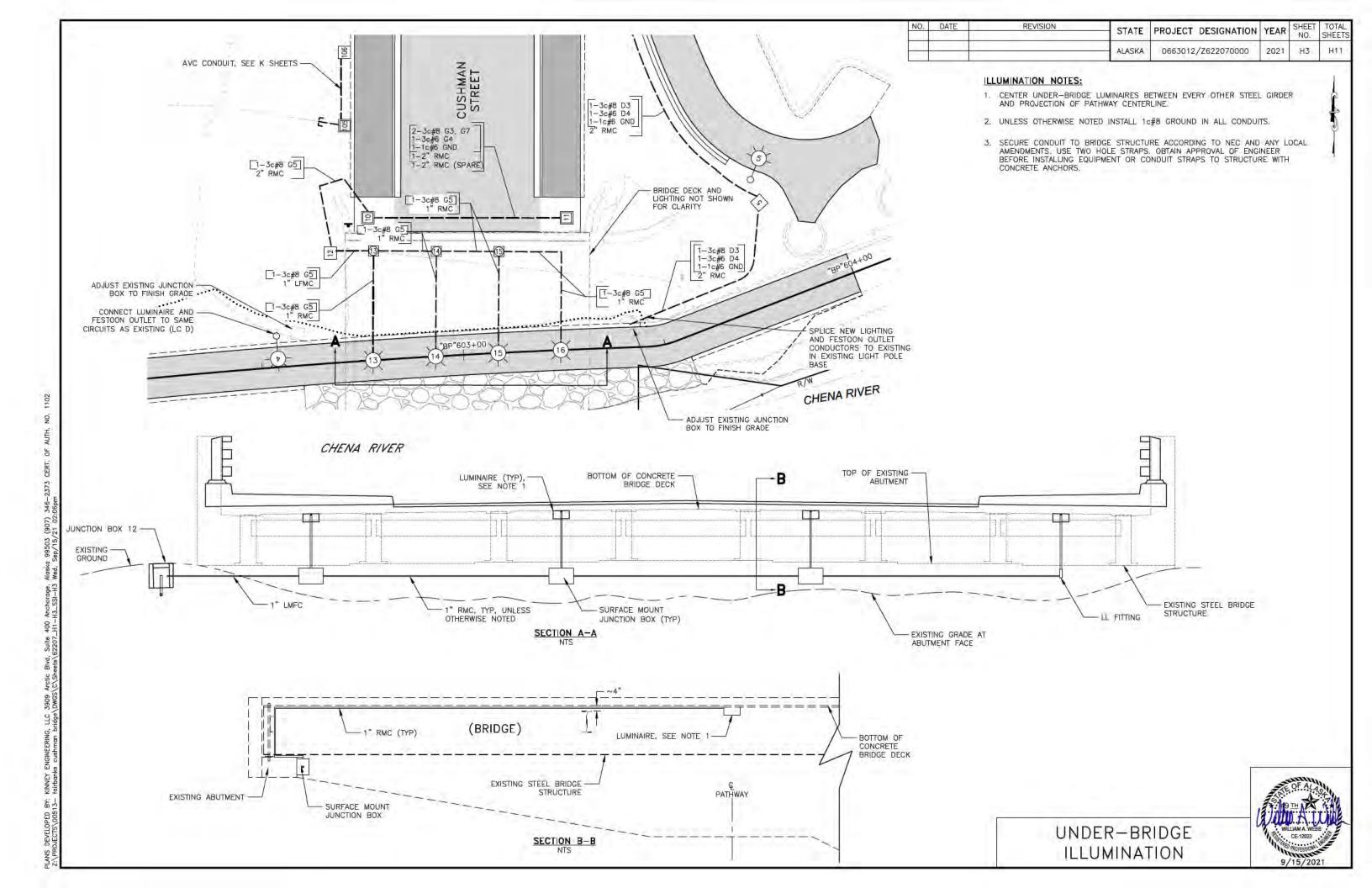
PT#	STATION	OFFSET	ELEV	DESCRIPTION
500	"BP"602+60.09	18.54' R	430.11	TOE OF RIPRAP
501	"BP"602+65.00	19.10' R	430.11	TOE OF RIPRAP
502	"BP"602+70.00	13.12' R	430.13'	TOE OF RIPRAP
503	"BP"603+15.00	16.57' R	430.23	TOE OF RIPRAP
504	"BP"603+35.00	14.65' R	430.28	TOE OF RIPRAP
505	"BP"603+45.52	11.97' R	430.33	TOE OF RIPRAF
506	"BP"603+50.00	11.71' R	430.38	TOE OF RIPRAP
507	"BP"603+53.14	12.31' R	430.42	TOE OF RIPRAP
508	"BP"603+55.05	12.24' R	430.45	TOE OF RIPRAP



PATHWAYS GRADING PLAN







	F	11		100		11.0	SIZ	E	BRAC	ING/		MTG.	-		POST		
OC.	STATION	LOCA LT.	RT.	ASDS CODE	LEGEND	1 4.5		V IES)	FRA	MING FRAMED	AREA (SQ.FT.)	HGT, (FT.)	DIR.	TYPE	SIZE (INCHES)	NO.	REMARKS
1	"CS"34+37	-	X	1-3	CHENA RIVER	24	X	18		X	3.00	2-1	S				MOUNT ON FLAG POLE
2	"CS"36+82	X		1-3	CHENA RIVER	24	Х	18		Χ.	3,00		N				MOUNT ON FLAG POLE
3	"EP"100+86		×	R7-8	ADA PARKING	12	X	18			1.50		NE	PST	2.5	1	CENTER POST ON ADA PARKING STALL, OMIT
	EF 100+00			R7-8a	VAN ACCESSIBLE	12	X	6		14	0.50	1.11		7 31	2.0		ARROW FROM STD LAYOUT OF R7-8.
4	"CS"37+78	×		R3-108 L/S/SR	ADVANCE INTERSECTION LANE CONTROL (L/S/SR)		×	48		x	10.00		S				MOUNT ON LIGHT POLI
5	"CS"37+67		×	R3-108 L/S/SR	ADVANCE INTERSECTION LANE CONTROL (L/S/SR)	30	x	48	×		10.00		S	PST	2.5	1	
6	"EP"101+24		x	R7—8	ADA PARKING	12	X	18			1.50		S	PST	2.5	1	MOUNT SIGN PER DETA ON H4. CENTER POST ON ADA PARKING STAL OMIT ARROW FROM ST LAYOUT OF R7-8.
Ī				D9-105	PARKING (SYMBOL)	24	X	24		ħ E	4.00						
7	"CS"38+47		×	M6-2	DIRECTIONAL ARROW (DIAGONAL-RIGHT)	21	X	15	I,		2.19		S	PST	2.5	1	WHITE ON BLUE
8	"CS"39+37	x		R3-7L	LEFT LANE MUST	30	X	30		X	6.25		S				MOUNT ON LIGHT POL

I OSI TIL CODING.	POST	TYPE	CODING:
-------------------	------	------	---------

TS = SQUARE STRUCTURAL STEEL TUBING PST = PERFORATED STEEL TUBING

	7. 12. 1	The s	ar J	Total I	1000		SIZ		BRAC	ING/	15.5	MTG.	331		POST	1.1	
OC.	STATION	LOCA	RT.	ASDS	LEGEND	1		V ES)	FRAN BRACED		AREA (SQ.FT.)		DIR.	TYPE	SIZE (INCHES)	NO.	REMARKS
1	"CS"34+37	-	X	1-3	CHENA RIVER	24	X	18		X	3.00		S				MOUNT ON FLAG POLE
2	"CS"36+82	×		1-3	CHENA RIVER	24	Х	18		X.	3,00		N				MOUNT ON FLAG POLE
3	llenlla oo voo			R7-8	ADA PARKING	12	X	18	1		1.50		NE	net.	0.5	1	CENTER POST ON ADA PARKING STALL, OMIT
٥	"EP"100+86		×	R7-8a	VAN ACCESSIBLE	12	X	6		4-7	0.50	1 11	NE	PST	2.5		ARROW FROM STD LAYOUT OF R7-8.
4	"CS"37+78	×		R3-108 L/S/SR	ADVANCE INTERSECTION LANE CONTROL (L/S/SR)	30	x	48		x	10.00		S				MOUNT ON LIGHT POLE
5	"CS"37+67		×	R3-108 L/S/SR	ADVANCE INTERSECTION LANE CONTROL (L/S/SR)	30	×	48	х		10.00		5	PST	2.5	1	
6	"EP"101+24		x	R7-8	ADA PARKING	12	X	18			1.50		S	PST	2.5	1	MOUNT SIGN PER DETA ON H4. CENTER POST ON ADA PARKING STAL OMIT ARROW FROM ST LAYOUT OF R7-8.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	H4	H11

# SIGNING NOTES:

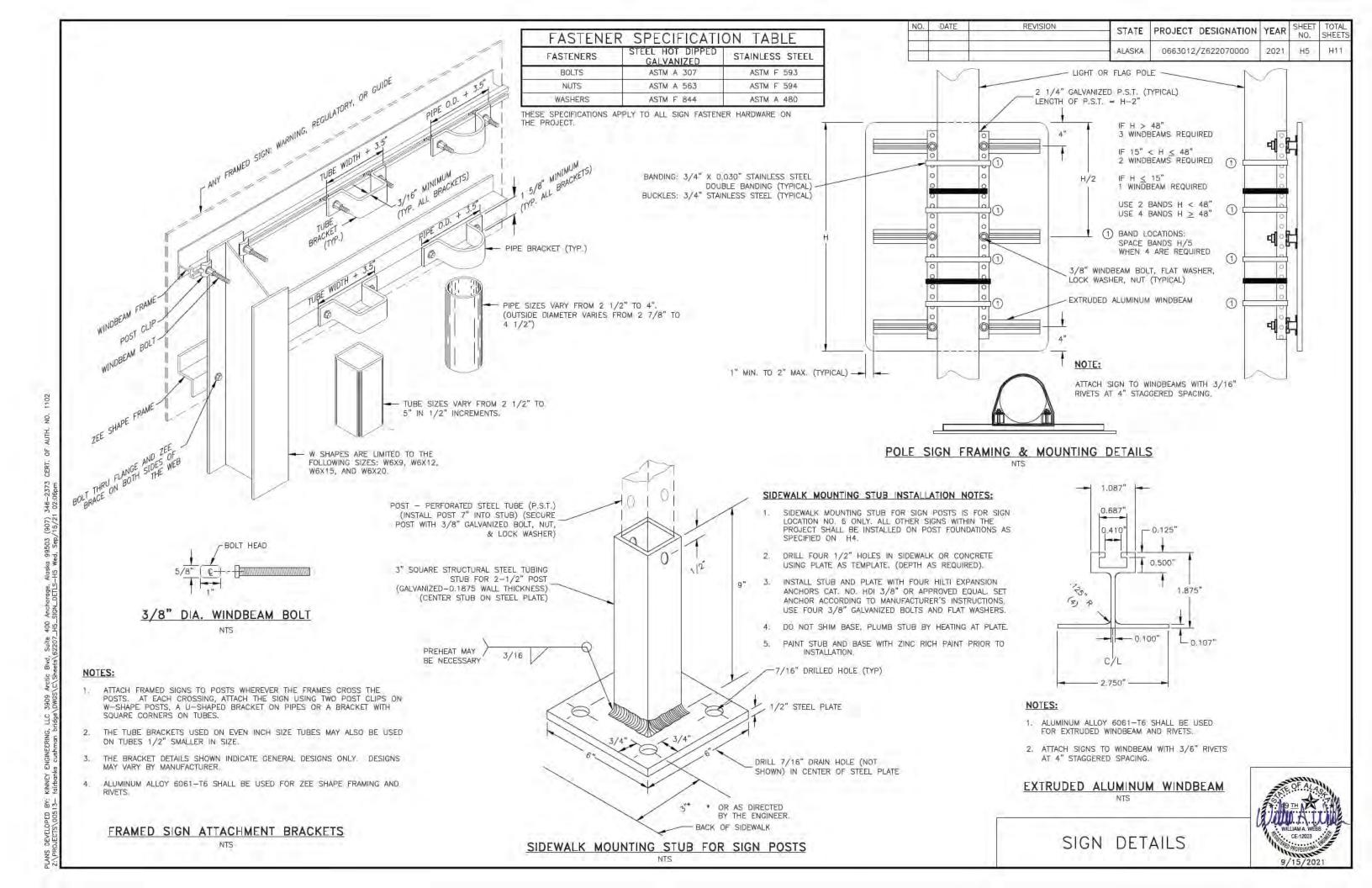
- 1. REMOVE AND DISPOSE OF ALL EXISTING SIGNS AND SIGN POST FOUNDATIONS WITHIN THE PROJECT LIMITS, EXCEPT SIGNS DESIGNATED FOR REINSTALLATION, SALVAGE, OR OTHERWISE NOTED.
- MOUNT SIGNS PER ASP S-05,02. SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE SIDEWALK AND PATHWAYS SHALL BE MOUNTED TO A
- 3. DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
- 4. UNLESS OTHERWISE NOTED, INSTALL PST POSTS WITH SLEEVE TYPE CONCRETE FOUNDATION PER ASP S-30.05. ATTACH THE SIGN POST USING GALVANIZED 3/8" DIA. BOLT, NUT, SPLIT LOCK WASHER AND TWO FLAT WASHERS.
- 5. INSTALL "TUBE POST SIGN BRACING" AS SHOWN ON ASP S-1.02 ON ALL SIGNS MOUNTED ON A SINGLE PST POST AND HAVING A HORIZONTAL DIMENSION OF 30 INCHES OR GREATER, EXCEPT D3-100 SERIES SIGNS. INSTALL GALVANIZED SPLIT LOCK WASHERS ON ALL 3/8" BOLTS. STAINLESS STEEL FASTENER HARDWARE MAY BE USED INSTEAD OF GALVANIZED. 1/4" X 1 1/2" ALUMINUM ALLOY 6D61-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES.
- 6. ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" DIA. BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
- 7. ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" ON SHEET H5.
- 8. SIGNS INSTALLED ON LIGHT POLES MAY REQUIRE TEMPORARY INSTALLATION ON 2-1/2" PST POST UNTIL LIGHT POLES ARE IN PLACE, THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001,0000.
- 9. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED, DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
- 10. LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGN POSTS. NOT ALL UTILITIES MAY BE SHOWN ON THE SIGNING AND STRIPING PLANS. SEE OTHER PROJECT PLAN SHEETS AND AS-BUILT DRAWINGS FOR ADDITIONAL INFORMATION.
- 11. CLEAR AS DIRECTED BY THE ENGINEER TO ENSURE ADEQUATE VISIBILITY OF SIGNS. THIS WORK IS SUBSIDIARY TO PAY ITEM 615.0001.0000.
- 12. PROVIDE WEATHER TIGHT CAPS ON ALL TUBE POSTS, EXCEPT PERFORATED STEEL TUBES.
- 13. ADJUST SIGN LOCATIONS AT THE DIRECTION OF THE ENGINEER.

			SALVAGE SIGN SUMMARY	
STATION	CL REF	ASDS CODE	LEGEND	REMARKS
"CS"36+82	29' LT	1-3	CHENA RIVER	
"CS"37+50	32' RT	SPECIAL	NO PARKING OR STANDING <->	
"CS"37+67	34' LT	W4-100R	THRU TRAFFIC MERGE RIGHT	
"CS"37+73	49' RT	R7-8	ADA PARKING	
"CS"37+78	32' RT	SPECIAL	VISITOR PARKING ->	
"CS"38+82	31' RT	R3-8L/S/SR	ADVANCE INTERSECTION LANE CONTROL (L/S/SR)	
"CS"38+83	34° LT	R3-8L/S/SR	ADVANCE INTERSECTION LANE CONTROL (L/S/SR)	

#### SALVAGE SIGN AND DISPOSAL NOTES:

- 1. DELIVER SALVAGED SIGN PANELS, NOT IDENTIFIED FOR REUSE IN THE SIGNING SUMMARY, TO THE CITY OF FAIRBANKS PUBLIC WORKS LOCATED AT 2121 PEGER ROAD, CONTACT THE CITY OF FAIRBANKS ENGINEERING DEPARTMENT TO ARRANGE FOR DELIVERY MONDAY THROUGH FRIDAY DURING NORMAL BUSINESS HOURS.
- 2. SALVAGED SIGNS WILL BE PAID PER EACH SIGN PANEL DELIVERED IN ACCEPTABLE CONDITION. SIGN PANELS AND DISMOUNTING FROM BRACING AND POST IS SUBSIDIARY TO PAY ITEM 615.0006.0000 SALVAGE SIGN





	LIGH	TING	JUNC	CTION	BOX SUMMARY
NO.	STATION	LOCA	NOITA	TYPE	REMARKS
NO.	STATION	LŤ,	RT.	CIPE	REMARKS
1	"CS"35+38.66	24.9	1 2 1 2	IA	LID ONLY
2	"CS"36+40.66		24.9	IA	LID ONLY
5	"EP"100+27.30	12,2		IA.	
6	"EP"100+95.31	10.1		IA .	
7	"CS"34+36.98	26.6		1	
8	"CS"35+59.15	24.9		IA	
9	"CS"35+59.15		24.9	IA	
10	"CS"36+81.64	26.6		10	
11	"CS"36+81.70		26.6	1)	
12	"CS"36+74.63	34.0		IA	
13	"BP"602+78.57	X		SURFACE	30 CUBIC INCHES MIN. SEE NOTE 1
14	"BP"602+93.81	X		SURFACE	30 CUBIC INCHES MIN. SEE NOTE 1
15	"BP"603+09.02	X		SURFACE	30 CUBIC INCHES MIN. SEE NOTE 1

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	Н6	H11

CTATION	LOCA	NOITA	TYPE	DEVIABLE			
STATION	LT.	RT.	TYPE	REMARKS			
"BP" 602+59.38	X		IA				
"BP" 603+40.94	X		IA				
"CS" 37+62.54	X		0				
"CS" 39+32.93	X		1.				

# JUNCTION BOX NOTES:

 SURFACE MOUNT JUNCTION BOXES SHALL BE HEAVY DUTY GALVANIZED STEEL WITH GASKETED LID. BOXES SHALL BE WEATHER PROOF AND WATER TIGHT MEETING NEMA TYPE 4.

Acres alone	STATION	1	120000			LUMINARIE				Total Several	MAST	10.00	
NO.		LOCATION	LOCATION	LOCATION	TYPE		TYPE	VOLTAGE	WATTAGE	ADJUSTABLE OUTPUT	CIRCUIT	MOUNT	ARM LENGTH
1	"CS"35+39	29 LT	STP	BRIDGE	Α	480V	150W		G3	35'	12'		
2	"CS"36+41	29 RT	STP	BRIDGE	A	480V	150W		G3	35'	12"		
3	"CS"39+37	38.5 LT	EX	CIDH	EX	EX	EX.		E6	EX	EX	RELOCATE EXISTING POLE TO NEW FOUNDATION	
4	"BP"602+54	7,8 LT	EX	PED	EX	EX	EX		D3	EX	EX	RELOCATE EXISTING POLE TO NEW FOUNDATION	
5	"EP"100+30	7.5 LT	STP	PED	В	120V	50W		D3	12.5		NOTE 1	
6	"EP"101+05	7.7 LT	STP	PED	В	120V	50W		D3	12.5		NOTE 1	
7-12				-								NOT USED	
13	SI	E NOTE 2			C	120V	25W		G5	~14′	N/A		
14	SI	EE NOTE 2			C	120V	25W		G5-	~14"	N/A		
15	S	EE NOTE 2			C	120V	25W		G5	~14'	N/A		
16	Si	EE NOTE 2			С	120V	25W		G5	~14'	N/A		

#### ELECTROLIER NOTES:

- PEDESTRIAN ELECTROLIERS AND LUMINAIRES SHALL MATCH THE APPEARANCE OF THE EXISTING PEDESTRIAN POLES AND LIGHTS ALONG THE RIVERFRONT PATH, INCLUDING FESTOON OUTLETS AND EMPLOY LED LIGHT SOURCES.
- 2. MOUNT TO UNDERSIDE OF BRIDGE DECK, CENTERED OVER PATHWAY AND BETWEEN GIRDERS. SEE SHEET H3.

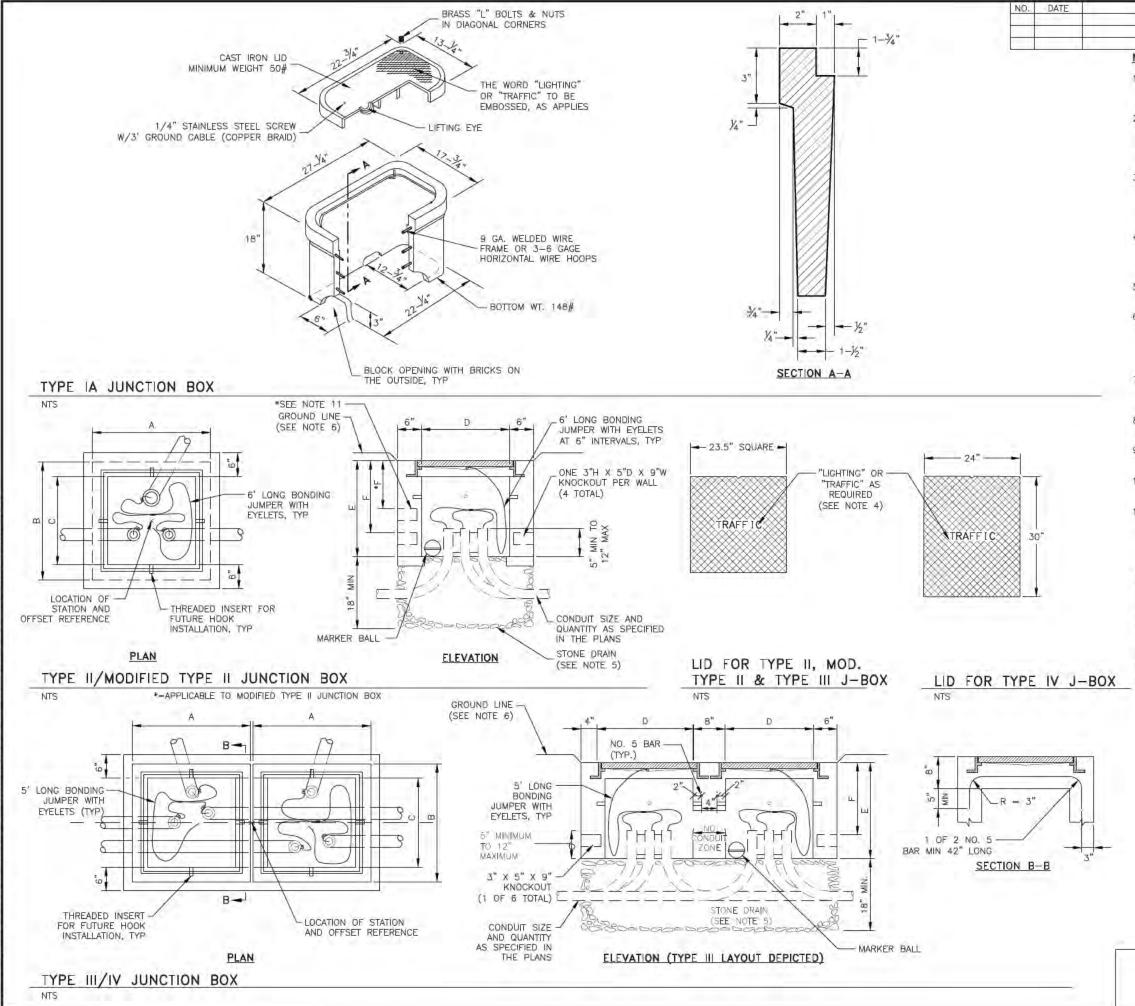
STREET LIGH	TING CRITERIA
ROADWAY CH	ARACTERISTICS
ROADWAY LIGHTING STANDARD:	IESNA RP-8-2014
CALCULATION ZONE:	ENTIRE ROADWAY
STREET CLASSIFICATION:	MAJOR
PEDESTRIAN CLASSIFICATION:	HIGH
PAVEMENT CLASSIFICATION:	R3
TRAFFIC FLOW:	ONE-WAY
LANE WIDTH	12 FT.
NO. OF LANES, LEFT / RIGHT:	2
MEDIAN	NONE
LUMINAIRE	DEPRECIATION
LED — TOTAL LIGHT L	OSS FACTOR (LFF): 0.85
ROADWAY LUM	INANCE CRITERIA
AVERAGE MAINTAINED (Lovg):	CD/SQ M
MINIMUM MAINTAINED (Lmin):	0.3 CD/SQ M
Lavg/Lmin RATIO (MAXIMUM):	<= 3.0:1
Lmax/Lmin RATIO (MAXIMUM):	<= 5.0:1
Lvmax/Lavg VEILING LUMINANCE RATIO (MAXIMUM:	<= 0.3:1

	LUMINAIRE SCHEDULE												
TYPE	MANUFACTURER & MODEL NO.	LIGHT SOURCE	IES TYPE OPTICS	INITIAL LUMENS	COLOR TEMP (CCT)	DRIVER CURRENT	VOLTAGE & WATTS	POWER FACTOR	MOUNTING	REMARKS			
A	GULLWING GL18-3-230LA-9680-NW-IS	LED (x48)	TYPE III	14,000	4000K	1050 MA	120V 150W	>0.9	HORIZ. TENON	NOTES 1, 2, 3			
В	LUMEC CAN1-40W42LED3K-G2-PC-C -REL3-120	LED (x42)	TYPE III	5,500	4000K	500 MA	120V 50W	>0.9	PENDANT	NOTES 1, 2, 3			
С	HOLOPHANE PPSQL2-P10-30K12-FC-T5W	LED (x10)	TYPE 5W	2,500	4000K	200 MA	120V 25W	>0.9	CEILING	NOTES 2, 3			

#### LUMINAIRE NOTES:

- MODEL AND MANUFACTURER LISTED ARE BASIS OF DESIGN. PROVIDE SCHEDULED LUMINAIRES OR APPROVED EQUAL, REFER
  TO SECTION 740 SPECIFICATIONS.
- 2. ALL LUMINAIRES SHALL BE FURNISHED WITH 0-10V DIMMING BALLAST, LUMINAIRE TYPES A AND B SHALL BE FURNISHED WITH 7-PIN NEMA PHOTOCELL RECEPTACLE AND WIRELESS CONTROL NODE.
- 3. PROVIDE ALL LUMINAIRES WITH FIELD ADJUSTABLE OUTPUT, ADJUSTABLE IN APPROXIMATELY 10 TO 15% INCREMENTS.

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NOTES:

REVISION

 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.

ALASKA

STATE PROJECT DESIGNATION YEAR

0663012/Z622070000

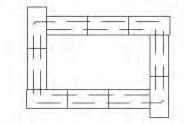
H7

2021

H11

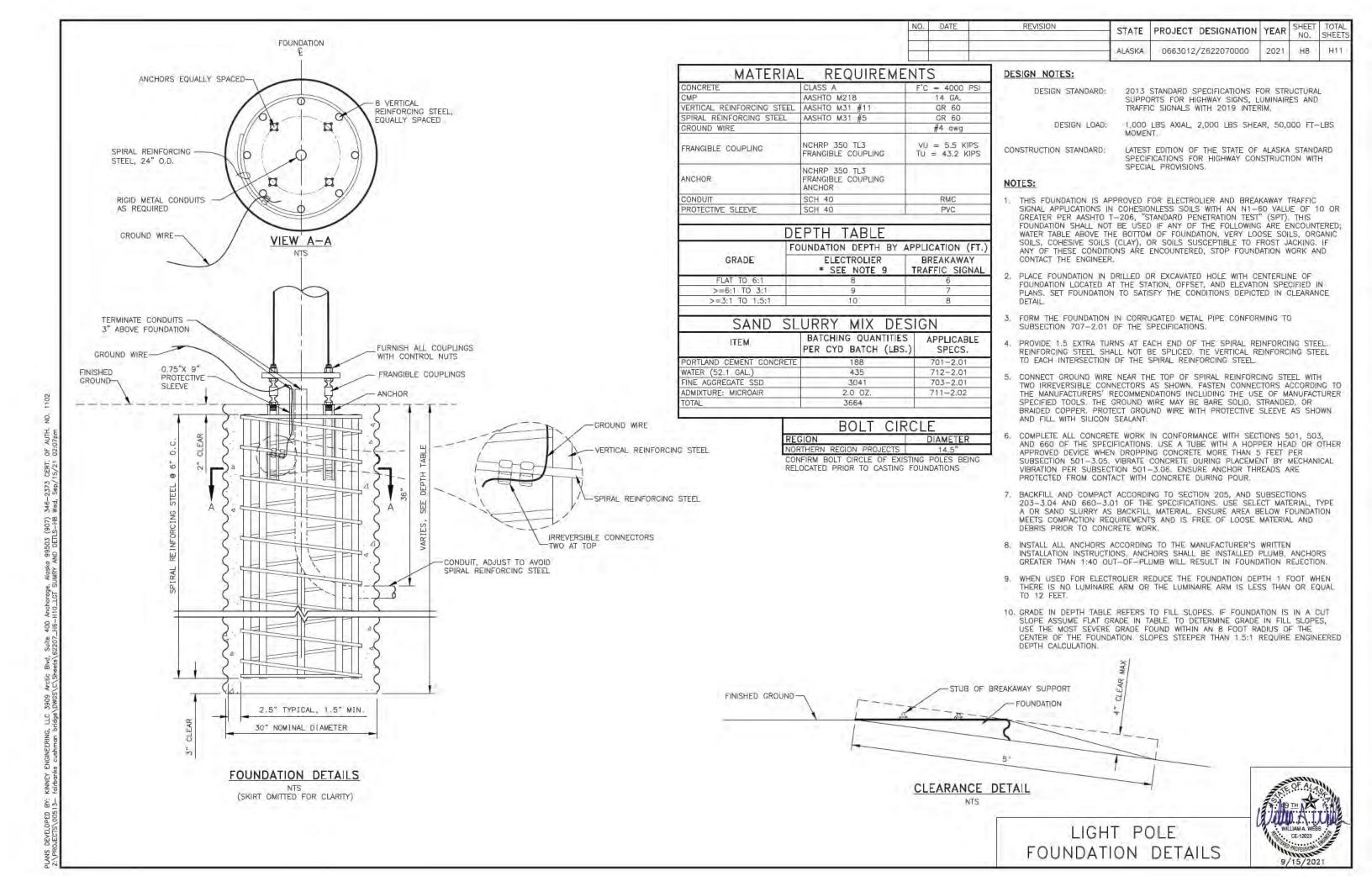
- FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
- 3. CONSTRUCT JUNCTION BOXES ACCORDING 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.
- 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
    0" to 3/16" IN PEDESTRIAN FACILITIES
    2" IN ALL OTHER AREAS
- 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 STAINLESS STEEL HARDWARE.
- INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
- INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
- PROVIDE CONDUIT GROUNDING BUSHINGS AND BOND TO 3/4"X10' COPPER CLAD GROUND ROD WITH #8 BARE COPPER BONDING WIRE (AS REQUIRED).
- 11. 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.

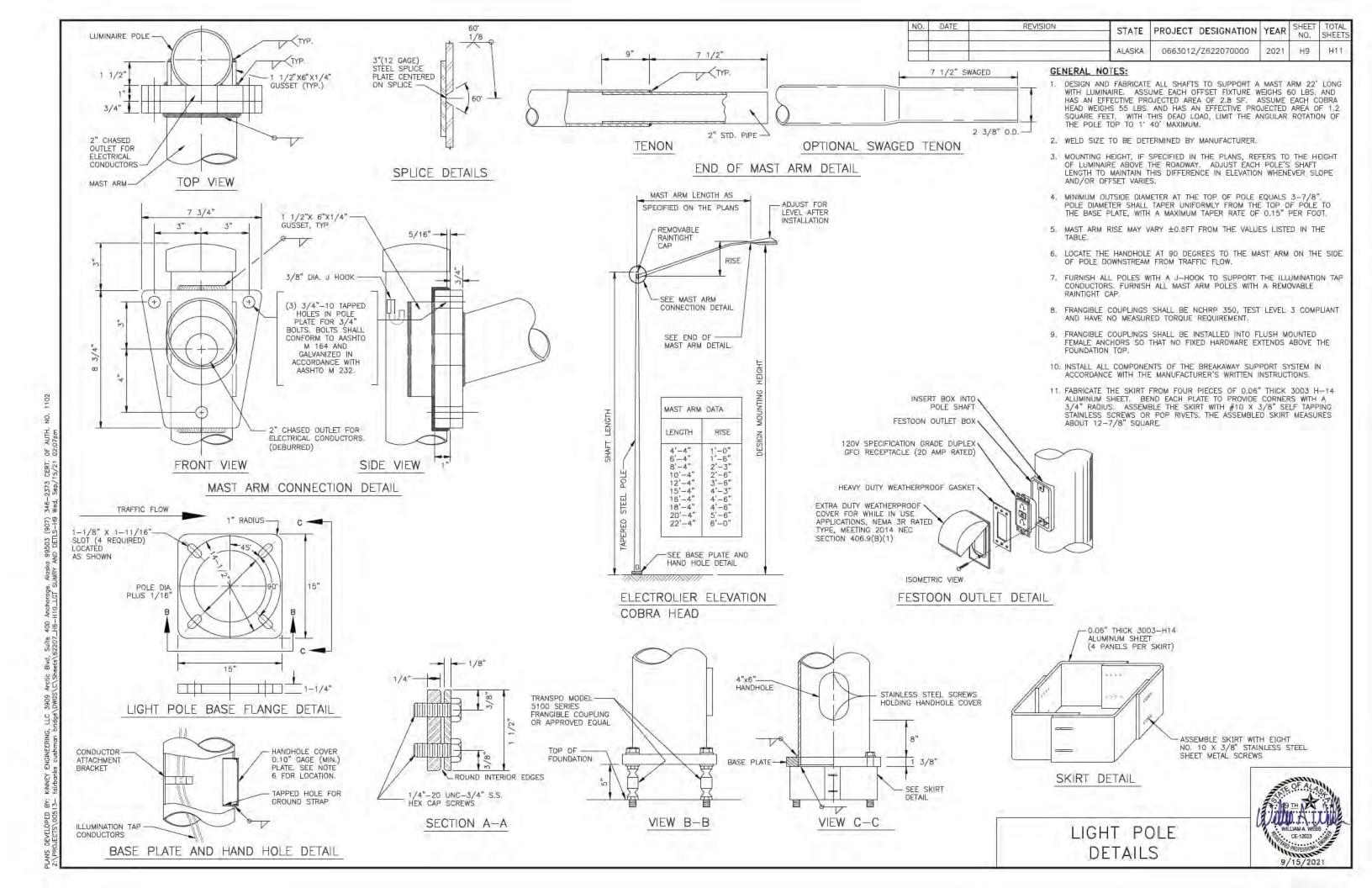
	J	-BOX	DIMEN	SIONS										
L DOV	DIMENSIONS													
J-BOX TYPE	A (MAX.)	B (MAX.)	C (MIN.)	(MIN <sup>-</sup> )	E (MIN.)	F								
U	29 1/2"	29 1/2"	22"	22"	24"	18"								
MOD. II	29 1/2"	29 1/2"	22"	22"	24"	12"								
111	29 1/2"	29 1/2"	22"	22"	24"	18"								
IV	30"	36"	30"	24"	30"	18"								

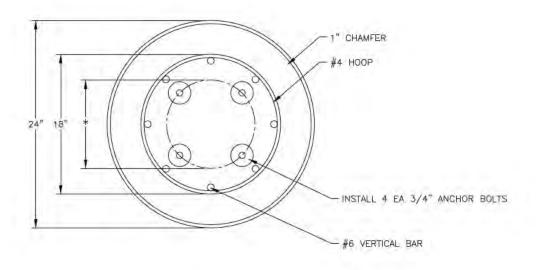


BRICK BASE TYPE IA AND TYPE II ONLY

JUNCTION BOX DETAILS





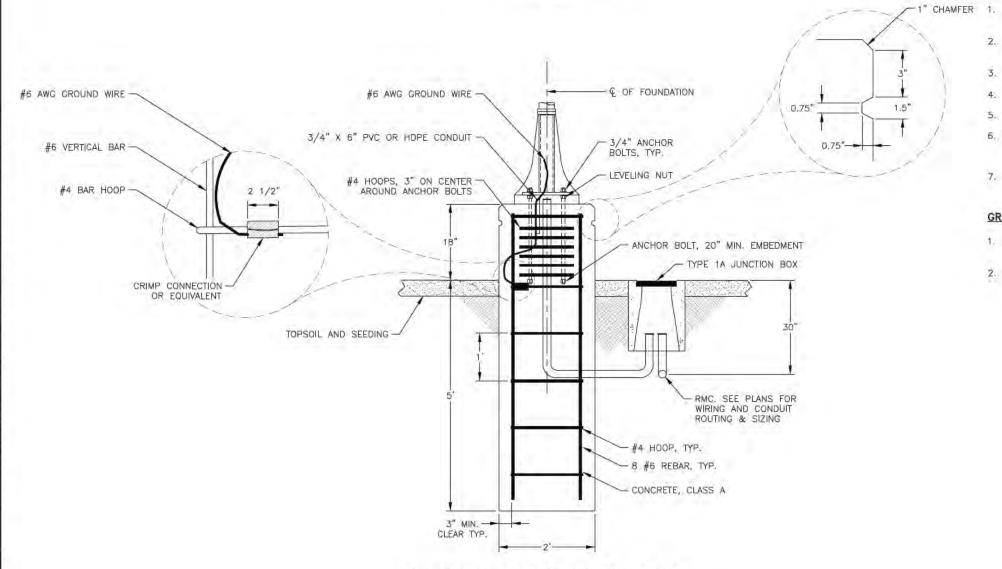


\*BOLT CIRCLE DIAMETER SHALL MATCH POLE BASE PLATE

# PEDESTRIAN ELECTROLIER FOUNDATION PLAN VIEW

PEDESTRIAN ELECTROLIER FOUNDATION

**ELEVATION VIEW** 



NO. DATE REVISION STATE PROJECT DESIGNATION YEAR SHEET TOTAL SHEETS

ALASKA 0663012/Z622070000 2021 H10 H11

#### DESIGN NOTES:

<u>DESIGN:</u> AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, 20D1.

WIND LOAD: 100 MPH w/ 1.3 GUST FACTOR.

MA	TERIAL PROP	ERTIES
CONCRETE	CLASS A	FC=4 Ksi
REINFORCING STEEL	ASTM A615M	Fy=60 Ksi

#### PEDESTRIAN ELECTROLIER FOUNDATION NOTES:

- CAST PORTLAND CEMENT CONCRETE FOUNDATIONS IN DRILLED HOLES AT THE LOCATIONS INDICATED IN THE PLANS. PRECAST FOUNDATIONS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- 2. INSTALL 3/4" GALVANZIZED ANCHOR BOLTS WITH A MINIMUM EMBEDMENT OF 20". ANCHOR BOLTS SHALL BE HOOKED OR HAVE A HEX NUT AND 5" Ø X 1/4" WASHER INSTALLED ON THE EMBEDDED END:
- 3. TOP OF FOUNDATION SHALL BE SLIGHTLY MOUNDED TO DRAIN AWAY FROM CENTER OF FOUNDATION.
- 4. TERMINATE THE SERVICE CONDUIT 3" ABOVE THE TOP OF FOUNDATION.
- 5. PROVIDE EXPOSED CONCRETE WITH A RUBBED FINISH.
- CLEAN THE BOTTOM OF DRILLED HOLE OF ANY LOOSE MATERIAL BEFORE PLACING CONCRETE. PLACE
  CONCRETE IN DIRECT CONTACT WITH THE UNDISTURBED SURFACE OF THE DRILLED HOLE. FORM ONLY THE
  TOP 2.3-3.0 FOOT OF THE FOUNDATION.
- 7. ALL CHAMFERS SHALL BE FORMED

# GROUNDING NOTES:

- USE #6 GROUND CONNECTOR TO #4 HOOP REBAR WITH IRREVERSIBLE CONNECTION 12 INCHES BELOW TOP OF FOUNDATION.
- PROTECT GROUND WIRE WITH 3/4 INCH PVC OR HDPE CONDUIT TO 6 INCHES BELOW TOP OF FOUNDATION FILLED WITH SILICON SEALANT. FREE GROUND CONDUCTOR ABOVE TOP OF FOUNDATION TO 2 FEET.

OF. AZ 400 PM A TURN WILLIAM A WEB CE-12023 PM 15/2021

PEDESTRIAN ELECTROLIER FOUNDATION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL, SHEETS
			ALASKA	0663012/Z622070000	2021	Э	HII

OCATIO	ENTER: "D" TYPE:  N: BARNETTE/ILLINOIS STREET & TERM S: INSTALLED 2012, OWNED BY CITY		VE, NW	ORNER	SERVICE		100 A	WP. 240/1	120 VOLT,	R GVEA ME 1-PHASE, 3-WIR 6,510 AMP		/A
10	MAIN BREAKER:	100 AME	. 3-PO	LE, 240,	/120 VOL	J			INTERRU	PTING RATING:	22,000 /	AMP
		AUXILIA	RY EQU	IPMENT	SUMMA	RY						
DESCR	PTION:	VOLT	POLES	AMP	REMARKS	S	, ,	- 1	-,			
UX CO	NTACT RELAY INTERLOCK	240	2	5A	EXTERNA	L CONT	ROL POW	ER DISCO	NNECT IN	TERLOCK (SEE NO	TE 1)	
ELECTO	OR SWITCH, ON-OFF-AUTO (3-POS)	240	2	10								
IGHTING	CONTACTOR, 240V COIL	240	6	30	CIRUITS	6, 8, 1	0, 12					
	PANEL 'A' SCHEDULE	240/120	OV VOLT,	1-PHAS	E, 3-WI	RE, 10	OA MLO	-	INTERRU	PTING RATING:	10,000	AMP-
CKT.		CKT	1014	KVA ,	LNE	CKT	DECEDE	DTION			CKT.	100
NO.	DESCRIPTION DO	BKR. 20A/1P	KVA 1.1	A	В	NO.	DESCRI	G CONTRO	ni.		15A/2P	KV.
3		20A/1P		1.1	1.1	1	LIGHTIN	IG CONTRO	JL		IDA/ ZP	0.
		20A/1P		1.1	121	5	+ W D	ATH: ILLUM		Dr	20A/2P	D.
7	SHOREWAY RECEPT D6			9.4	1.2	8	114	ST LED)		Di	ZUNY ZI	0,
9	SPACE	20/11	0.0	0.3	102	10	A	ATH ILLUM		## D3	20A/2P	- 0
11	SPACE			0.3	0.3	12	No. 77	ST + 2 N			2010 21	D.,
13	SPACE	-		0.0	0,0	14	* SPAR		Lii LLUj		20A/2P	0,1
15	SPARE	20A/2F		0,0	0.0	16		_			2000	
17	2.7672			0.0		18			SPACE			
	SERVICE LOAD:		NECTED: DEMAND:	2.5	2.6	5.1	KVA KVA	13	AMP AMP			

EXIST	Action Action and action action and action action and action a	200	CEN	TER					
LOAD C LOCATIO REMARK	ON: 1ST AVE & CUSHMAN ST, NW COR	NER	ANKS		SERVICE		XXX KVA 3PH PAD XFMR GVE 100 AMP, 208/120 VOLT, 1-PHASE, 3- FAULT CURRENT: TBD		
	MAIN BREAKER:	100 AM	2-PC	LE, 208	/120 VOL	J	INTERRUPTING RATING:	10,000	AMP
		AUXILIA	RY EQU	IPMENT	SUMMA	\RY			
DESCR	RIPTION	VOLT	POLES	AMP	REMARK:	S	a tradition was been distri-		
AUX CC	ONTACT RELAY INTERLOCK	240	2	5A	EXTERNA	L CONTI	ROL POWER DISCONNECT INTERLOCK (SEE	NOTE 1)	
SELECTO	OR SWITCH (ON/OFF/AUTO, 3-POS)	240	2	10	-				
LIGHTING	G CONTACTOR	240	10	30					
	PANEL 'A' SCHEDULE	208/120	O VOLT,	-PHASE	3-WR	E, 100	A MLO INTERRUPTING RATING:	10,000	AMP -
CKT.	DESCRIPTION	CKT_ BKR,	KVA	KVA A	/ LNE	CKT NO.	DESCRIPTION	CKT. BKR.	KVA
1	SIGNAL CONTROLLER G1	40A/1P		0.4		2	* 1ST & CUSHMAN INT LIGHTING	G2 20A/2P	
3	SPACE				0.4	4			0.4
5	* CUSHMAN N.END UNDER BRIDGE LTS G5	20A/2P	0.1	0.3		6	* CUSHMAN BRIDGE LTS/ N OF TST **	G3 20A/2P	0.3
7	(SEE NOTE 2)		0.1		0.3	- 8			0.3
9	* CUSHMAN BRIDGE W BANNER LT G6	20A/2P	8.0	8.0		10	SPARE	G4 20A/2P	
-11	(SEE NOTE 2)		0.8	-	0.8	12		1 19-50	
13 * CUSHMAN BRIDGE E BANNER LT G7		20A/2P	0.8	0.8	5.00	14	LIGHTING CONTROL	15A/2P	0.1
15	(SEE NOTE 2)		8.0		0.8	16		-	0.1
17	SPACE			0.0		18	SPACE	-	
SERVICE LOAD:			NECTED: DEMAND:	2.2	2.2	4.5 5.6	KVA 21 AMP KVA 27 AMP		

CIRCUIT SWITCHED BY LIGHTING CONTACTOR
 \*\* CONNECT NEW LUMINAIRES TO EXISTING CIRCUIT, SWITCHED BY LIGHTING CONTACTOR
 PROVIDE ENGRAVED LABEL ON DEAD FRONT COVER NEAR HOA SWITCH TO IDENTIFY EXTERNAL CONTROL POWER SOURCE DISCONNECT AS FOLLOWS:
 "CAUTION: 240V REMOTE POWERED CASCADE CONTROL CIRCUIT SUPPLIES THIS LOAD CENTER. REMOTE DISCONNECT FOR CASCADE CONTROL."

POWER IS LOCATED AT 'LC-F' NEAR NE CORNER OF 2ND AND CUSHMAN."

2. USE SPARE BREAKER FOR NEW LIGHTING CIRCUIT WIRED THRU LIGHTING CONTACTOR

POWER IS LOCATED AT 'LC-R23' NEAR SW CORNER OF 1st AND BARNETTE."

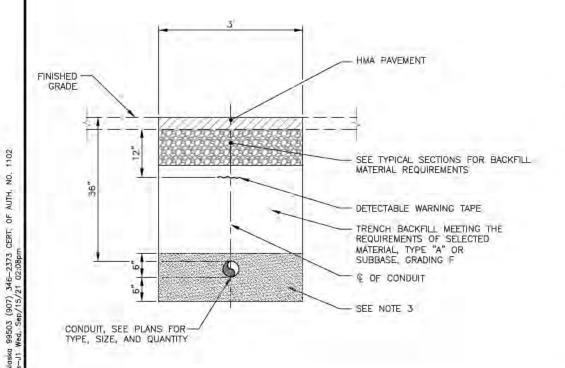
# GENERAL NOTES:

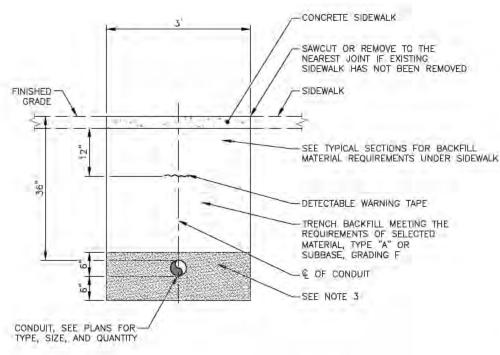
- ). WIRING LEGEND: FIELD WIRING INDICATED BY BROKEN LINE TYPE (---); SHOP WIRING INDICATED BY SOLID LINE TYPE.
- 2. CONTROL PANELS SHALL BE UL-LISTED ASSEMBLIES IN COMPLIANCE WITH UL 508A.
- LOAD CENTER CIRCUITING IS BASED ON AS-BUILTS AND LIMITED FIELD INVESTIGATIONS. VERIFY CIRCUITS BEFORE COMMENCING WORK.

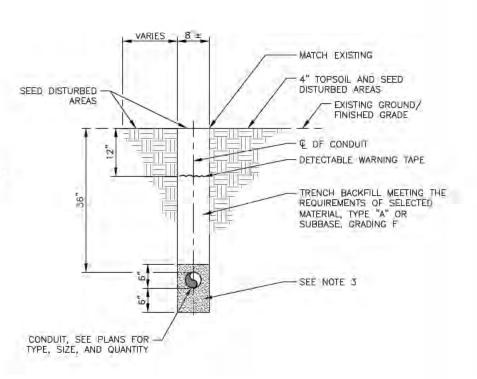


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL
			ALASKA	0663012/Z622070000	2021	ŲÌ	311

- 1 ALL ASPHALT PAVEMENT, CURB & GUTTER, OR CONCRETE SIDEWALK SHALL BE SAWCUT PRIOR TO REMOVAL. EXCEPTION: WHERE APPLICABLE, CONCRETE SIDEWALK MAY BE REMOVED TO THE NEAREST CONSTRUCTION JOINT.
- ALL CONDUIT TRENCH EXCAVATION BENEATH ASPHALT PAVEMENT, SIDEWALK, AND CURB AND GUTTER SHALL BE COMPLETED BEFORE FINAL PAVING OR CONCRETE PLACEMENT.
- CONDUIT BEDDING SHALL MEET THE REQUIREMENTS FOR SELECTED MATERIAL, TYPE A, 1" MINUS.







CONDUIT TRENCH AND EXCAVATION IN PAVING AREAS

CONDUIT TRENCH AND EXCAVATION IN SIDEWALK AREAS

CONDUIT TRENCH ADJACENT TO ROADWAYS

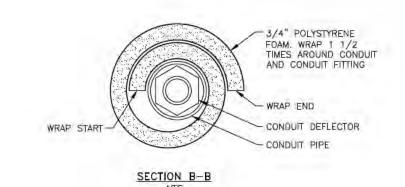
TRENCH DETAILS



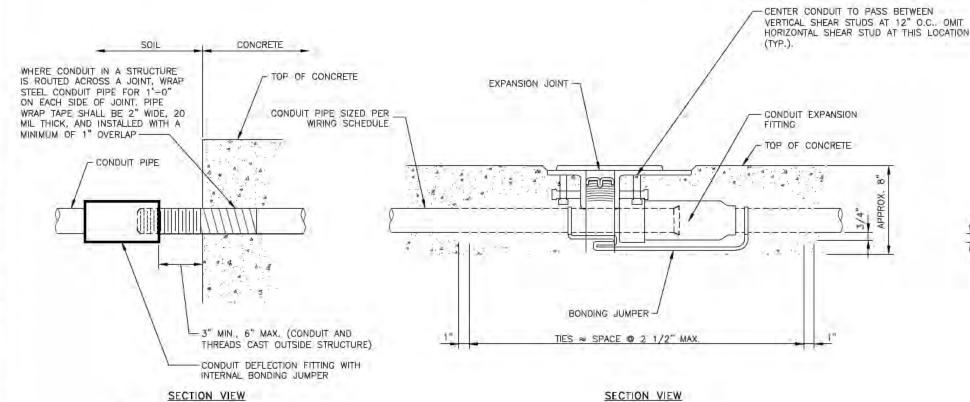
ONNECT S 9/15/2021

FIBER OPTIC INTERCONNECT

NO. DATE REVISION PROJECT DESIGNATION YEAR 2021 J2 ALASKA 0663012/Z622070000



CONDUIT IN BRIDGE SIDEWALK



CONDUIT DEFLECTION FITTING

IN SOIL/ABUTMENT INTERFACE

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30'

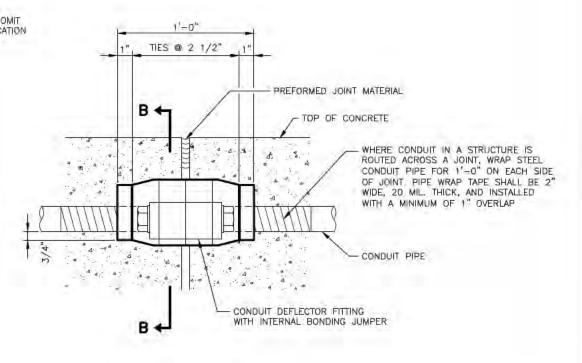
AND 3/4" MOVEMENT. PLACE AT CONDUIT PIPE EXIT FROM

STRUCTURE AND SHALL BE IN NEUTRAL STATE AFTER

INSTALLATION.

### CONDUIT EXPANSION FITTING

CONDUIT FITTING - (TYPE AX FOR MOVEMENT OF ± 2") AT BRIDGE EXPANSION JOINTS



SECTION VIEW

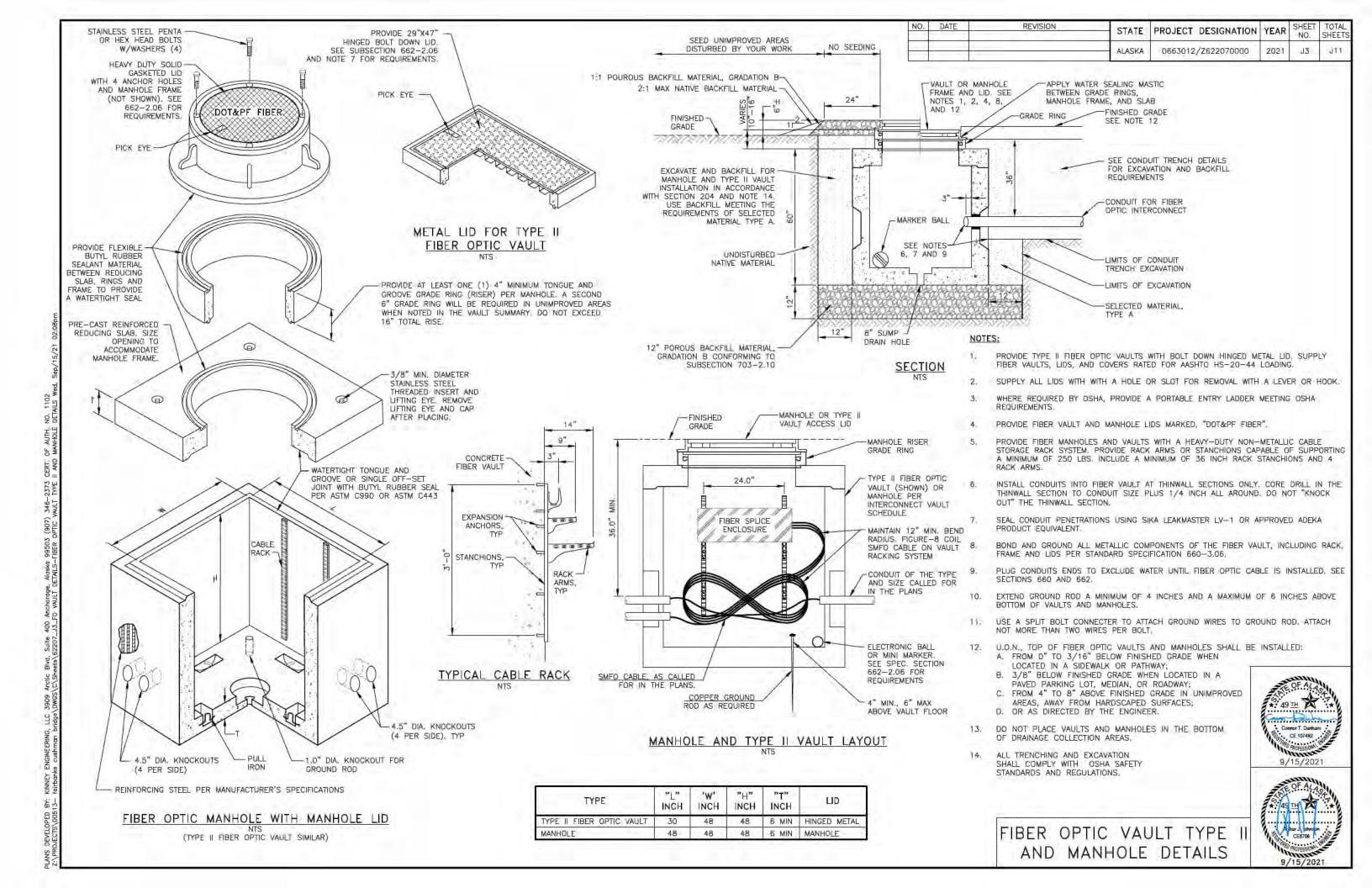
#### CONDUIT DEFLECTION FITTING IN EXPANSION JOINT

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30' AND 3/4" MOVEMENT, CONDUIT PIPES PLACED THROUGH RETAINING WALL TRAFFIC BARRIER SHALL BE FITTED WITH DEFLECTION FITTINGS AT A MAXIMUM SPACING OF 120'. THE DEFLECTION FITTINGS SHALL BE PLACED AT THE TRAFFIC BARRIER OPEN JOINT THAT COINCIDES WITH THE RETAINING WALL EXPANSION JOINT.





BRIDGE #390 CROSSING DETAIL



FIBER OPTIC MARKER ELEVATION

NTS



## TX/RX - P ###

TRANSMIT DIRECTION ABBREVIATION PER TRANSMIT DIRECTION TABLE LETTER P FOR PATCH CORD FIBER POSITION NUMBER

LABEL BOTH ENDS OF THE PATCH PANEL CORD

### LABELING FOR FIBER PATCH CORDS

TRANSMIT	ABBREVIATION		
DIRECTION	TRANSMIT	RECEIVE	
SOUTH TO NORTH	TX(a)	RX(a)	
NORTH TO SOUTH	ТХ(Ь)	RX(b)	
WEST TO EAST	TX(a)	RX(a)	
EAST TO WEST	TX(b)	RX(b)	

RD# ROADWAY THE CABLE IS ROUTED FROM THE PATCH PANEL.

FLR = FARMERS LOOP RD

AW = AIRPORT WAY

3RD = 3RD STREET

BR = BALLAINE RD

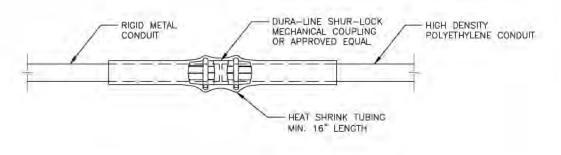
UA = UNIVERSITY AVE

TD = NORTH TANANA DR BR = BALLAINE RD AD = ALUMNI DR CR = COLLEGE RD 1ST = 1ST AVENUE TS = TERMINAL STREET IL = ILLINOIS STREET CS = CUSHMAN STREET

DIRECTION THE CABLE IS ROUTED FROM THE PATCH PANEL N = NORTH E = EAST S = SOUTH W = WEST

### NUMBER OF OPTICAL FIBERS PER EIA 359-A-1

#### LABELING FOR MAINLINE FIBER CABLES



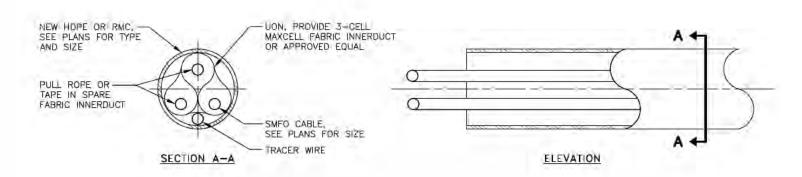
NOTE:

USE ELECTROFUSION COUPLINGS PER THE HDPE MANUFACTURER'S REQUIREMENTS, WHEN JOINING HDPE TO HDPE.

# RMC TO HDPE CONDUIT CONNECTION DETAIL





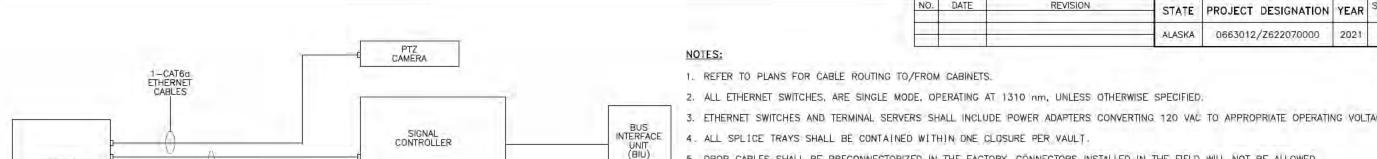


DECAL

NTS

CONDUIT DETAIL NTS

MISCELLANEOUS DETAILS



# SWITCH COMMUNICATIONS WIRING DIAGRAM

MALFUNCTION MANAGEMENT UNIT

(MMU)

CLICK 650 OR 656 CABINET INTERFACE

CLICK 650 OR 656 CABINET INTERFACE

TERMINAL STREET, GUSHMAN STREET,

EXISTING FIBER OPTIC VAULT #4

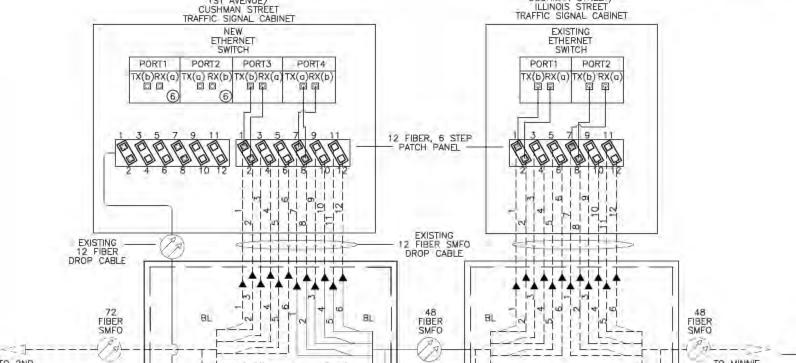
ETHERNET SWITCH

AVENUE

3-CAT5e ETHERNET

1ST AVENUE/

EXISTING FIBER OFTIC VAULT #2



FIBER OPTIC SPLICE DIAGRAM

(12)

- 3. ETHERNET SWITCHES AND TERMINAL SERVERS SHALL INCLUDE POWER ADAPTERS CONVERTING 120 VAC TO APPROPRIATE OPERATING VOLTAGES,
- 5. DROP CABLES SHALL BE PRECONNECTORIZED IN THE FACTORY, CONNECTORS INSTALLED IN THE FIELD WILL NOT BE ALLOWED.
- 6. PORT RESERVED FOR FUTURE INTERCONNECT.

LEGEND

STREET

FIBER SPLICE

LC CONNECTOR

FIBER OPTIC CABLE

SPLICE CLOSURE SMFO SINGLE MODE FIBER OPTIC CABLE

PROTECT FIBER END

LC PORT

- FIBER STRAND / BUFFER TUBE

JUMPER OR PATCH CHORD ---- EXISTING FIBER STRAND / BUFFER TUBE -- EXISTING FIBER OPTIC CABLE

- 7. COMMUNICATION COMPONENTS ARE SHOWN SCHEMATICALLY, VERIFY TX-RX FIBER PORTS PRIOR TO MAKING FINAL CONNECTIONS.
- 8. CONNECT ETHERNET SWITCH TO EACH PATCH PANEL WITH TWO SINGLE MODE FIBER PATCH CABLES. THE CABLES SHALL BE OF SUFFICIENT LENGTH TO ALLOW FOR MOVING OF THE ETHERNET SWITCH TO ANY SHELF LOCATION IN THE CABINET ONCE THE PATCH PANEL HAS BEEN INSTALLED. LABEL EACH PATCH CABLE ACCORDING TO THE TRANSMISSION DIRECTION TABLE.
- 9. PROVIDE THREE (EACH) ETHERNET CABLES OF SIX FOOT LENGTH FOR EACH CABINET RECEIVING AN ETHERNET SWITCH, TO BE CONNECTED TO CABINET COMPONENTS ACCORDING TO THE SWITCH COMMUNICATIONS WIRING DIAGRAM.
- 10. NO SPLICES ARE PERMITTED EXCEPT WHERE SPECIFICALLY INDICATED IN THE FIBER OPTIC SPLICE DIAGRAM. SPLICE CLOSURES MUST CONFORM TO SECTION 662-3.10 OF THE SPECIFICATIONS
- 11, MOUNT PATCH PANEL TO CABINET WALL AND IN A LOCATION AS TO NOT INTERFERE WITH OTHER EQUIPMENT AND SUCH THAT IT IS READILY ACCESSIBLE. PROVIDE SUFFICIENT SLACK CABLE IN CABINET TO ALLOW THE PATCH CABLE TO BE RELOCATED AT ANY LOCATION IN THE CABINET.
- (12)1000' OF FIBER CABLE IS STORED IN VAULT #4 BY ILLINOIS STREET AND COLLEGE ROAD SIGNAL INTERCONNECT ADOT&PF PROJECT. VERIFY CABLE INTEGRITY BY TESTING FIBERS 1-6 FROM THE GATOR PATCH INSTALLED AT THE ILLINOIS STREET / TERMINAL STREET TRAFFIC SIGNAL CABINET. TEST BY PERFORMING AN ODTR TRACE, MONITORING FOR LOSS EVENTS GREATER THAN .05 db. SUBMIT RESULTS BEFORE REMOVING AND PULLING CABLE TO 1ST AVENUE.

TRANSMIT	ABBREVIATION		
DIRECTION	TRANSMIT	RECEIVE	
SOUTH TO NORTH	TX(a)	RX(a)	
NORTH TO SOUTH	тх(ь)	RX(b)	
WEST TO EAST	TX(a)	RX(a)	
EAST TO WEST	TX(b)	RX(b)	

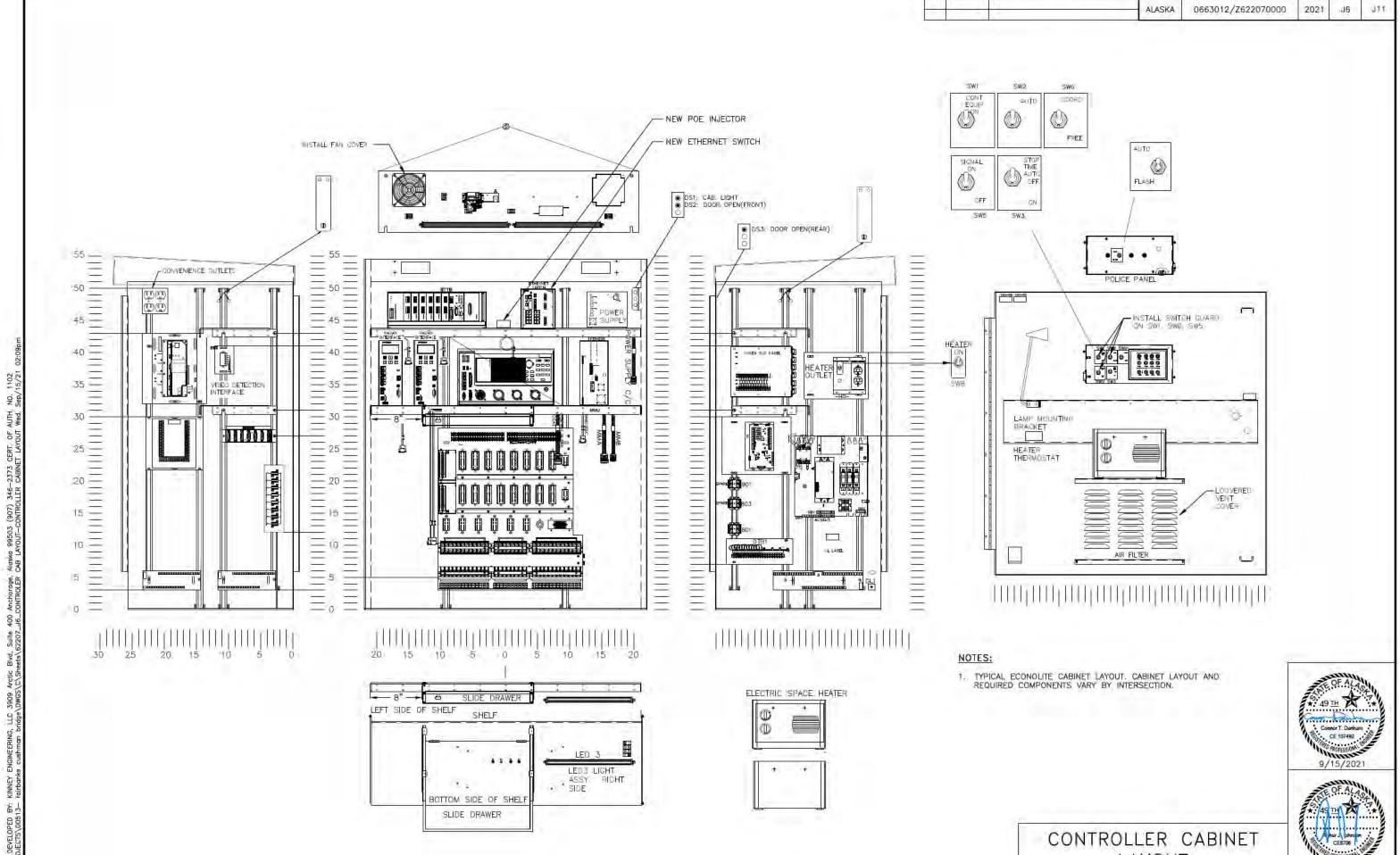
BUFFER	COLOR	CODING
FIBER / POSITION NO.	BASE COLOR	ABBREVIATION
1	BLUE	BL
2	ORANGE	OR
3	GREEN	GR
4	BROWN	BR
5	SLATE	SL
6	WHITE	WH
7	RED	RD
8	BLACK	BK
g	YELLOW	YL.
10	VIOLET	VI
11	PINK	PK
12	AQUA	AQ



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15

FIBER OPTIC SPLICE AND WIRING DETAILS



NO. DATE

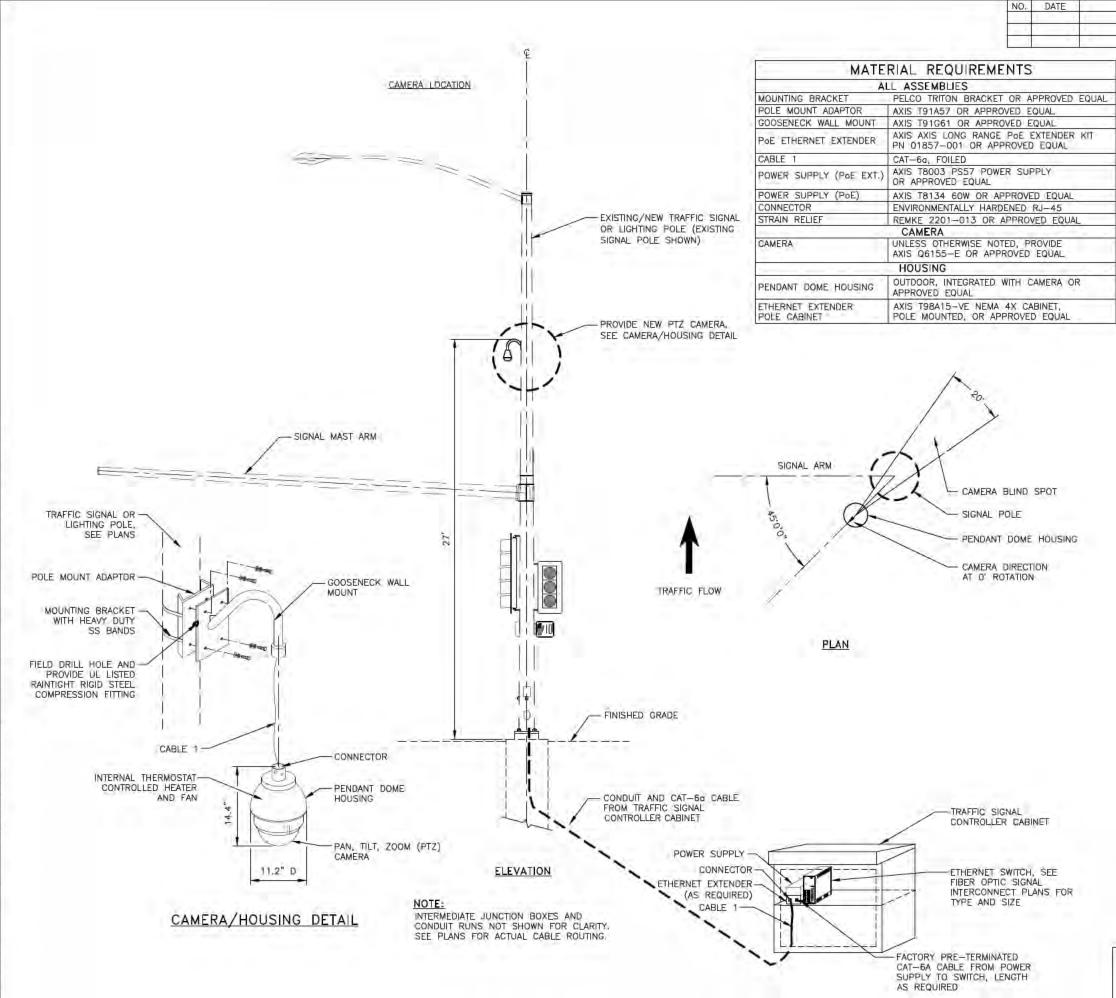
REVISION

PROJECT DESIGNATION YEAR

STATE

CONTROLLER CABINET LAYOUT





#### NOTES:

REVISION

1. PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.

ALASKA

- PROVIDE CABLE IN ACCORDANCE WITH SECTION 660 OF THE SPECIAL PROVISIONS AND ENSURE THAT THERE IS SUFFICIENT CABLE LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLE IS TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS INSTALL AND MAKE FINAL CONNECTIONS.
- CABLE RUN ARE TO BE MADE CONTINUOUS WITHOUT SPLICES EXCEPT FOR IN LOCATION SHOWN IN SPICE DETAIL WITH SPECIFIED CONNECTOR.

STATE PROJECT DESIGNATION YEAR

0663012/Z622070000

17

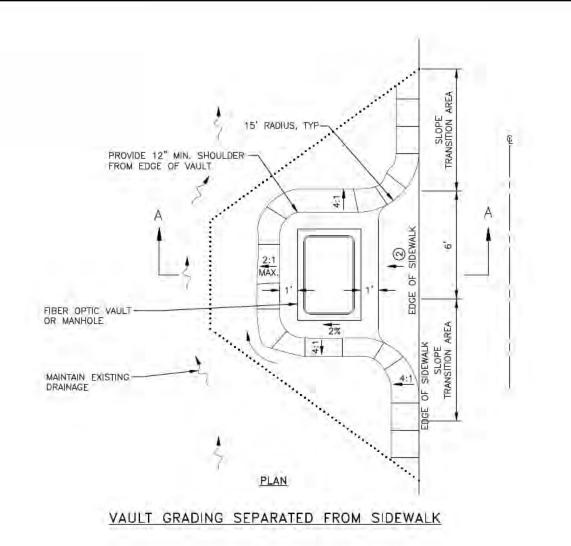
2021

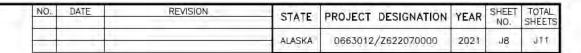
- CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT NO ADDITIONAL COST.
- THE MIN CABLE BEND RADIUS SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATIONS.
- 6. MOUNT THE PENDENT DOME HOUSING AT A 45' ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID SEAM WELDS, SLIP JOINTS, AND MOUNTED POLE EQUIPMENT; AND TO IMPROVE CAMERA VIEWS.
- 7. ADJUST CAMERA INSIDE THE PENDENT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0' TILT ANGLE.
- B. AT CABLE END CONNECTOR LOCATION PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED, AFTER CONNECTION IS MADE COVER SPLICE WITH WATER PROOF HEAT SHRINK TUBING. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.
- CAT60 TOTAL CABLE LENGTH SHALL NOT EXCEED 325 FEET FROM SWITCH TO PTZ CAMERA.

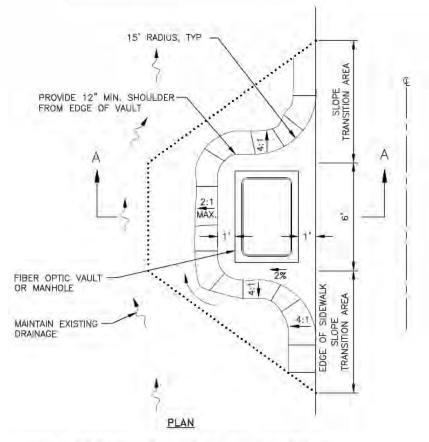
Connec T. Durham
CE 107492
9/15/2021



PAN, TILT, ZOOM CAMERA DETAILS



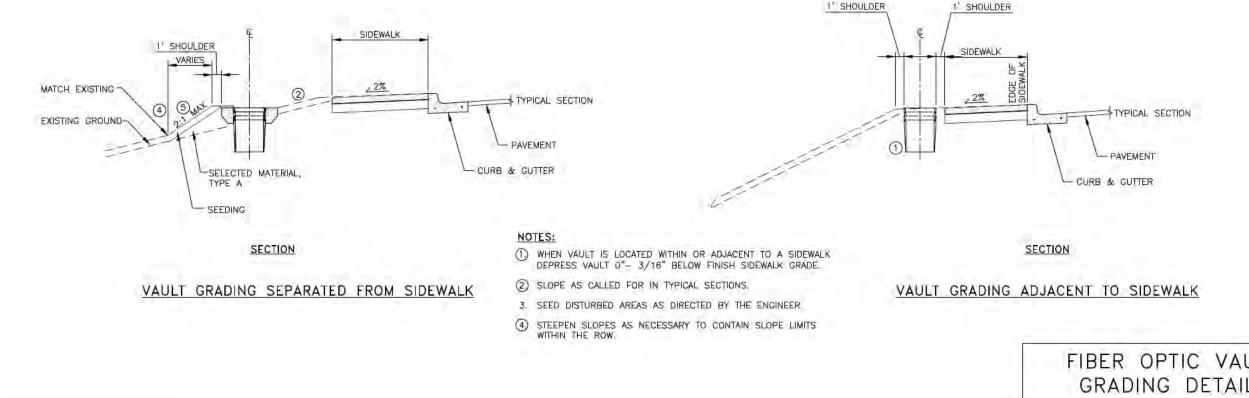


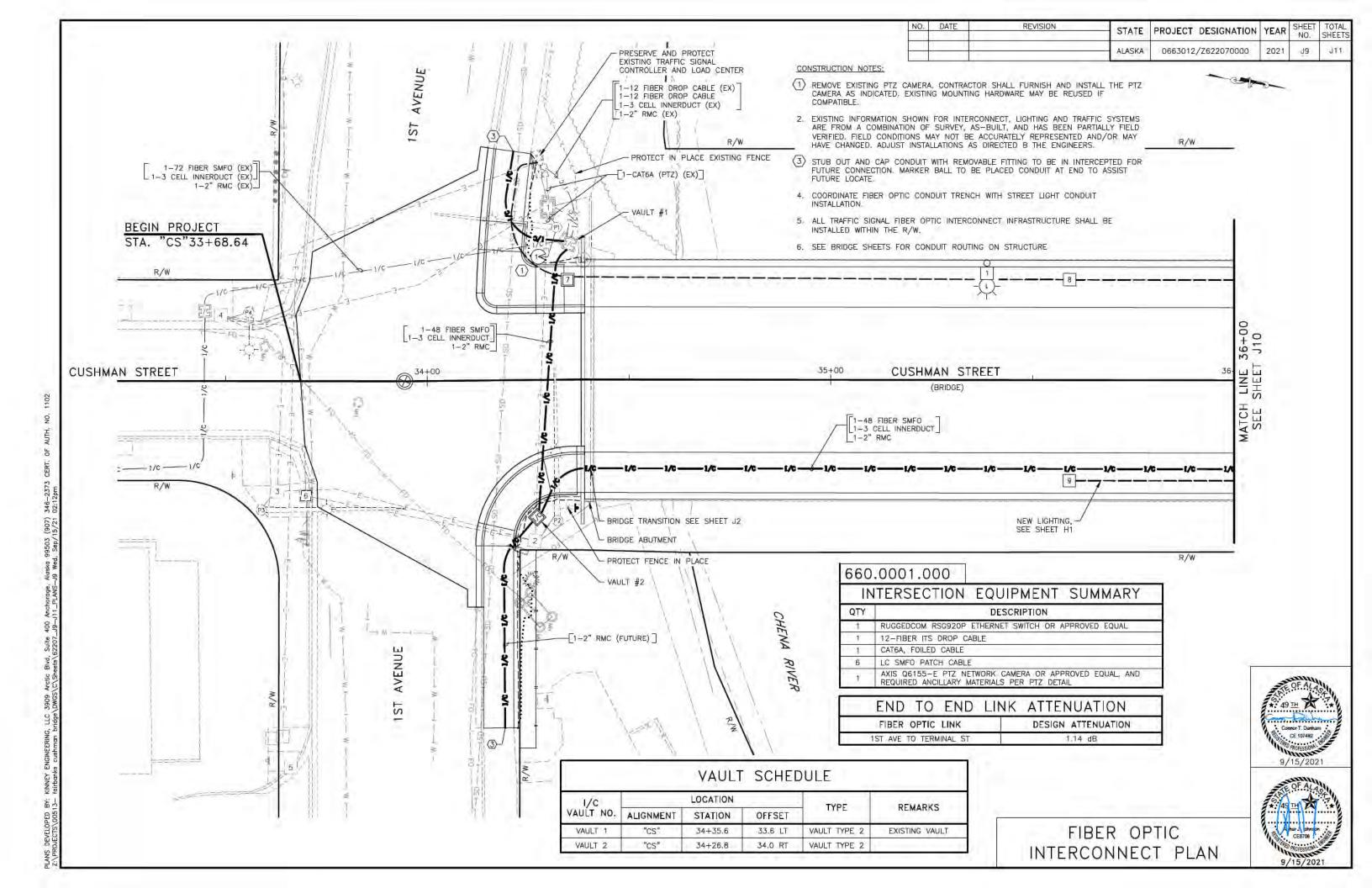


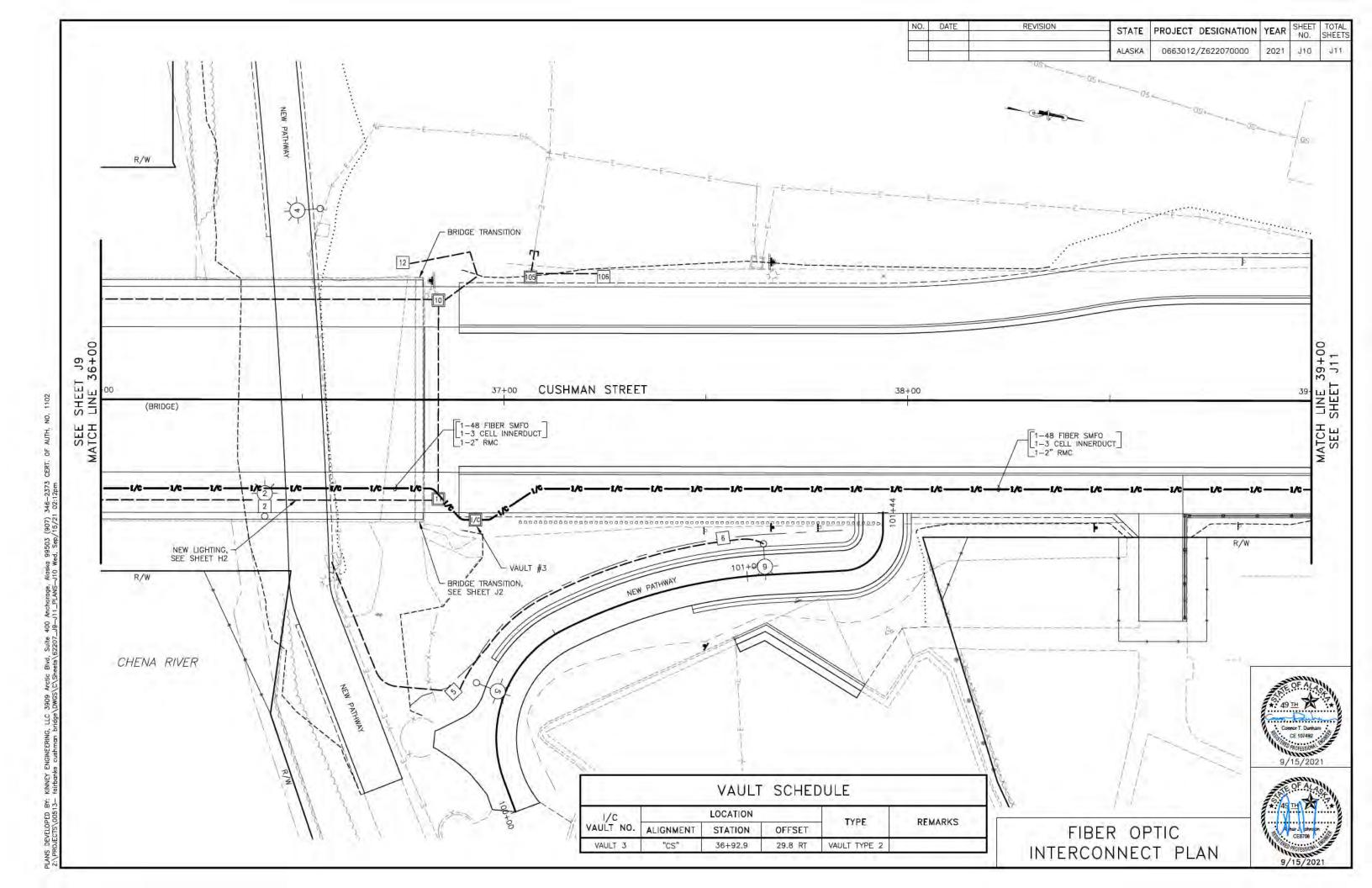
VAULT GRADING ADJACENT TO SIDEWALK

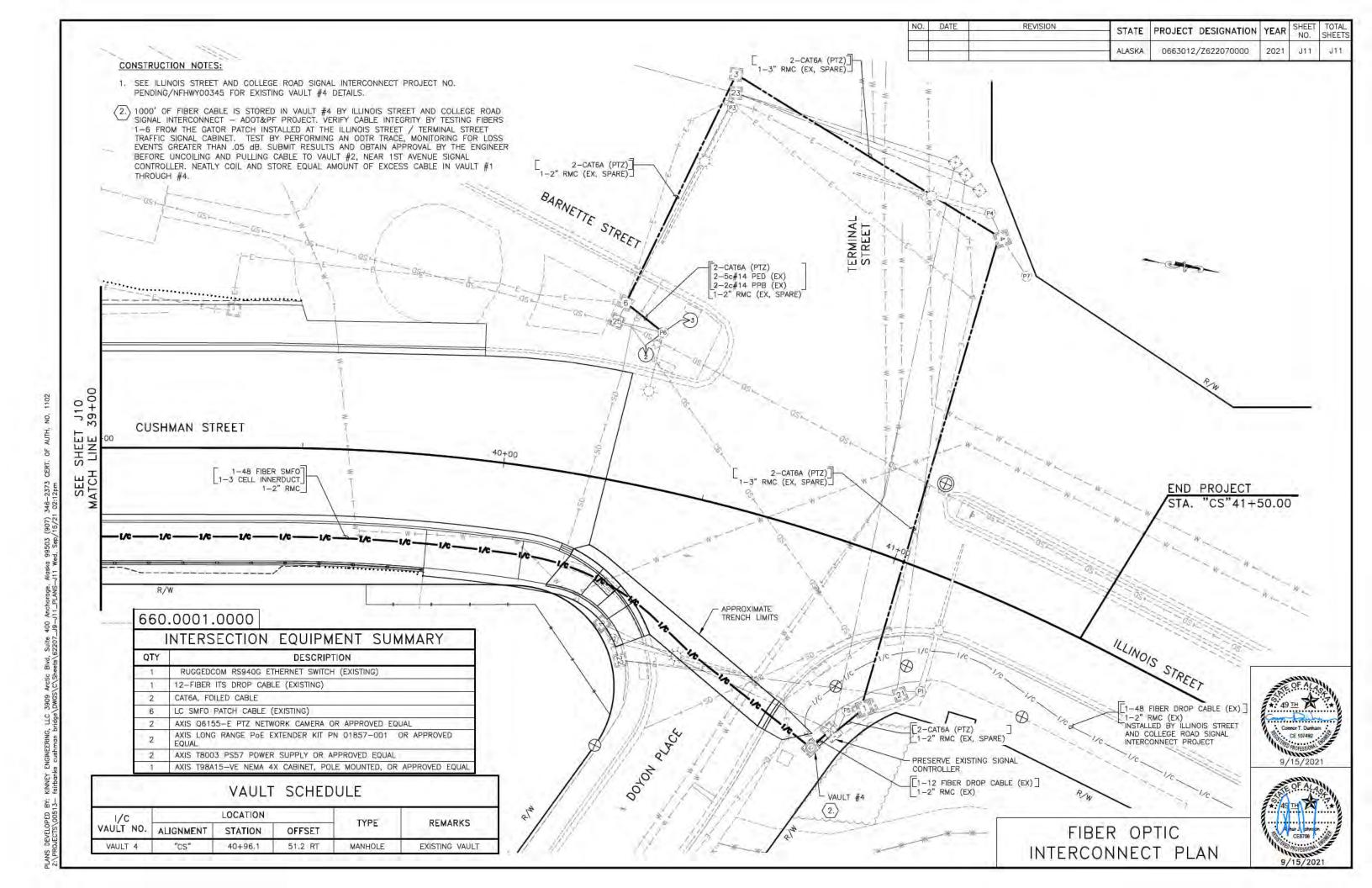
FIBER OPTIC VAULT GRADING DETAILS

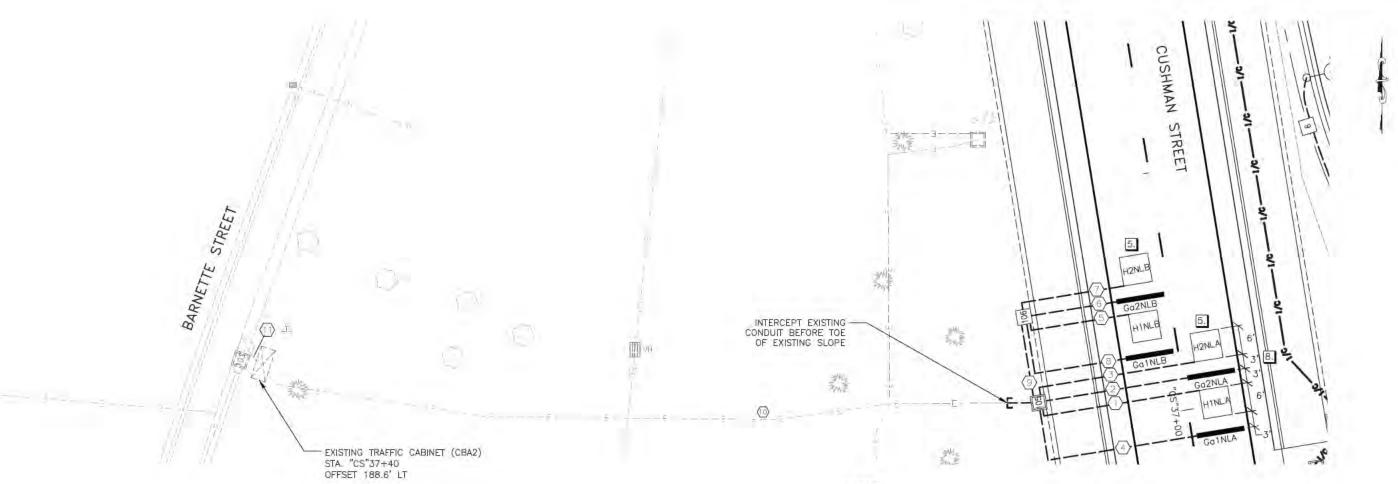
9/15/2021











JUI	NCTION	BOX SUM	MARY
NUMBER	STA.	OFFSET	TYPE
105	"CS"37+06.4	30.4' LT	П
106	"CS"37+24.6	30.5' LT	IA

No.

NUMBER	STA.	OFFSET	TYPE
Ga1NLA	"CS"36+94.6	6.0' RT	PIEZO
H1NLA	"CS"36+97.6	6.0' RT	LOOP
Ga2NLA	"CS"37+06.6	6.0' RT	PIEZO
H2NLA	"CS"37+09.6	6.0' RT	LOOP
Gq1NLB	"CS"37+12.6	6.0' LT	PIEZO
H1NLB	"CS"37+15.6	6.0' LT	LOOP
Ga2NLB	"CS"37+24.6	6.0' LT	PIEZO
H2NLB	"CS"37+27.6	6.0' LT	LOOP

#### NOTES:

- 1. ALL PVC CONDUIT AND FITTINGS SHALL BE 1" DIAMETER SCHEDULE 8D.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE MAKING MODIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- INSTALL PLASTIC SLEEVED GROUNDING BUSHINGS ON ALL CONDUITS BEFORE PULLING ANY WIRE, GROUND WITH A MINIMUM #6 BARE COPPER.
- 4. INSTALL AND TEST ALL LOOP DETECTORS PRIOR TO OVERLAYING PAVEMENT.
- 5. CENTER LOOPS AND PIEZO SENSORS IN LANE.
- 6. MINIMUM SPACING BETWEEN TAIL AND LOOP OR PIEZO IS 1'. SENSOR TAILS SHALL NOT CROSS EACH OTHER.
- 7. SPLICE LOOP WIRING TO MULTI-PAIR CABLE USING NONREENTERABLE WET LOCATION SPLICE. SEE SHEET K4.
- 8. DIMENSIONS ARE TYPICAL FOR EACH LOOP AND PIEZOELECTRIC SENSOR LAYOUT, STATION/OFFSET CALLOUTS ARE TO CENTER OF PIEZO AND CENTER OF LEADING EDGE OF LOOPS.
- COAX CABLE FOR PIEZO SENSORS TO BE RUN WITHOUT SPLICES TO "F" CONNECTOR AT TERMINAL BLOCK IN CABINET.
- 10. PRESERVE EXISTING EQUIPMENT NOT IMPACTED BY NEW WORK, ANY 'EXISTING TO REMAIN' CONDUCTORS THAT ARE DAMAGED BY THE CONTRACTOR'S WORK SHALL BE REPLACED WITH NEW AT CONTRACTOR'S EXPENSE.

#### AVC LEGEND

☼ CONDUIT REFERENCE NUMBER. SEE SHEET K2 FOR CONDUIT SCHEDULE



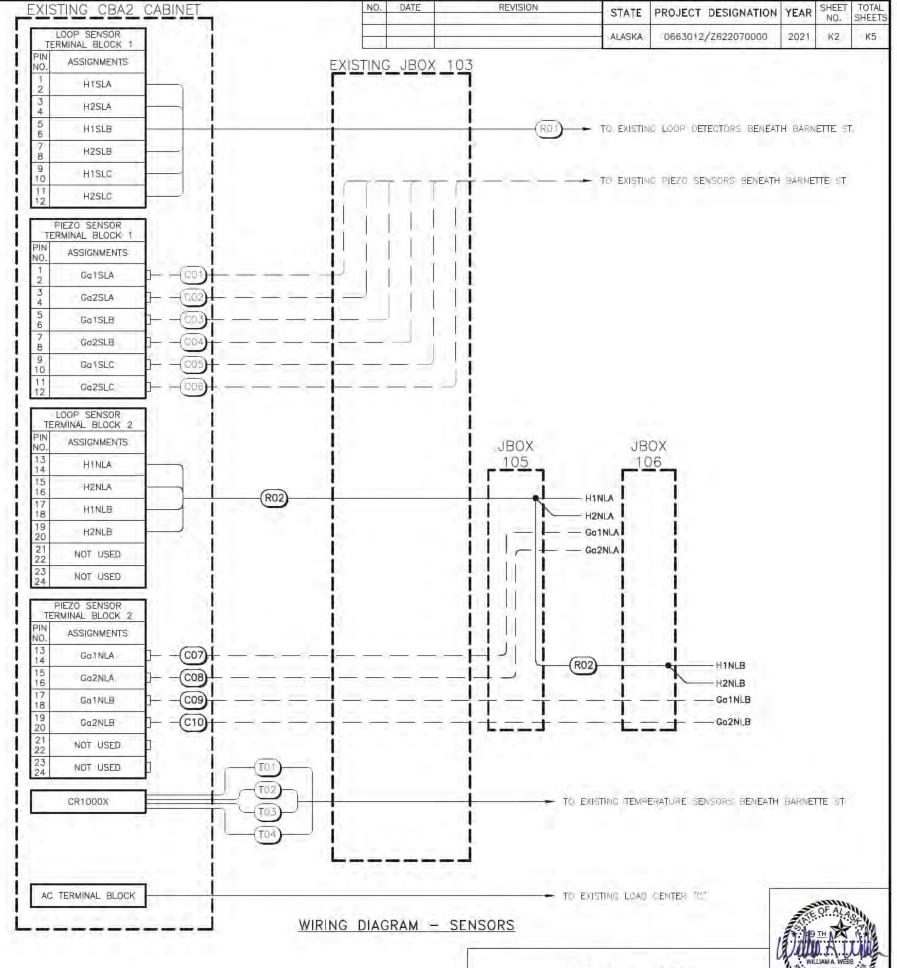
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1	Ed	
1	02:13	
100	/21	
20000	Sep/15/	
Duch	Wed,	
1	3-K2	
2000	VC_WRG	
5	Z_AVC	
-	07_K	
100	1622	
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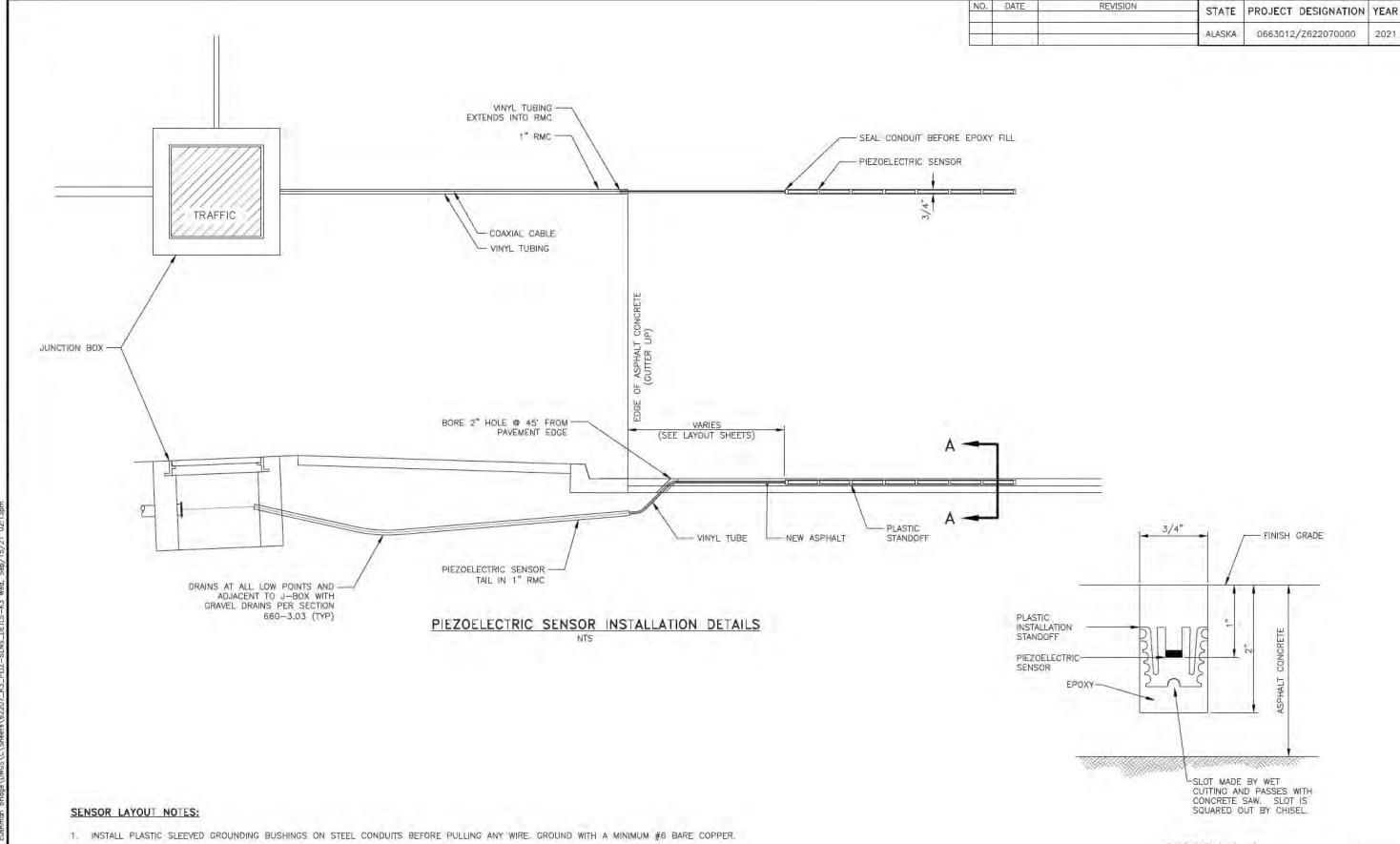
CONDUIT				CABLE			
<b>#</b>	QTY	SIZE (INCHES)	FROM TO		QTY	TYPE	NUMBER
1	1	1	JBOX 105	HINLA	1	10#14	R02
2	1	1 1	JBOX 105	Ga2NLA	1-1	RG58 COAX	C08
3	1	ne schere	JB0X 105	H2NLA	1 1/1	1c#14	R02
4	1	1	JBOX 105	Go 1NLA	1.1	RG58 COAX	C07
5	1	1	JBOX 106	HINLB	1	1c#14	R02
6	1	4	JBOX 106	Ga2NLB	3.	RG58 COAX	C10
7	1	4.	JBOX 106	H2NLB	1 -1 -1	1c#14	R02
8	1	1-11-	JBOX 106	Ga1NLB	1	RG58 COAX	C09
9	3	2	inov soc	IDAY ME	(1)	7pr#18	R02
9	I V		JBOX 106	ADOX 100	JBOX 105	2	RG58 COAX
10	1	2	JBOX 105	EXISTING	3	7pr#18	R02
IU.	V.	2	380X 103	JB0X 103	4	RG58 COAX	C07-C10
					-11	7pr#18	R02
					4	RG58 COAX	C07-C10
					1 (ETR)	7pr#18	R01
11	EXISTING	3	EXISTING JBOX 103	EXISTING	6 (ETR)	RG58 COAX	C01-C6
			200X 103	GBA2	1 (ETR)	VERTICAL TEMP. SENSOR	T01
					1 (ETR)	PAVEMENT SENSOR	T02

ETR= EXISTING TO REMAIN

#### NOTES:

- NOT ALL CONDUITS AND CONDUCTORS IN EXISTING AVC SYSTEM ARE SHOWN. CONDUITS AND CONDUCTORS NOT IMPACTED BY NEW WORK ARE OMITTED.
- 2. REMOVE ALL CONDUCTORS NOT SCHEDULED TO REMAIN FROM EXISTING CONDUIT.





2. CENTER SENSOR IN ASSIGNED LANE.

1102

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3. COAX CABLE FOR PIEZOELECTRIC SENSORS SHALL BE RUN WITHOUT SPLICES TO "F" CONNECTOR AT TERMINAL BLOCK IN CABINET.

4. USE 10' PIEZOELECTRIC SENSORS.

SECTION A-A

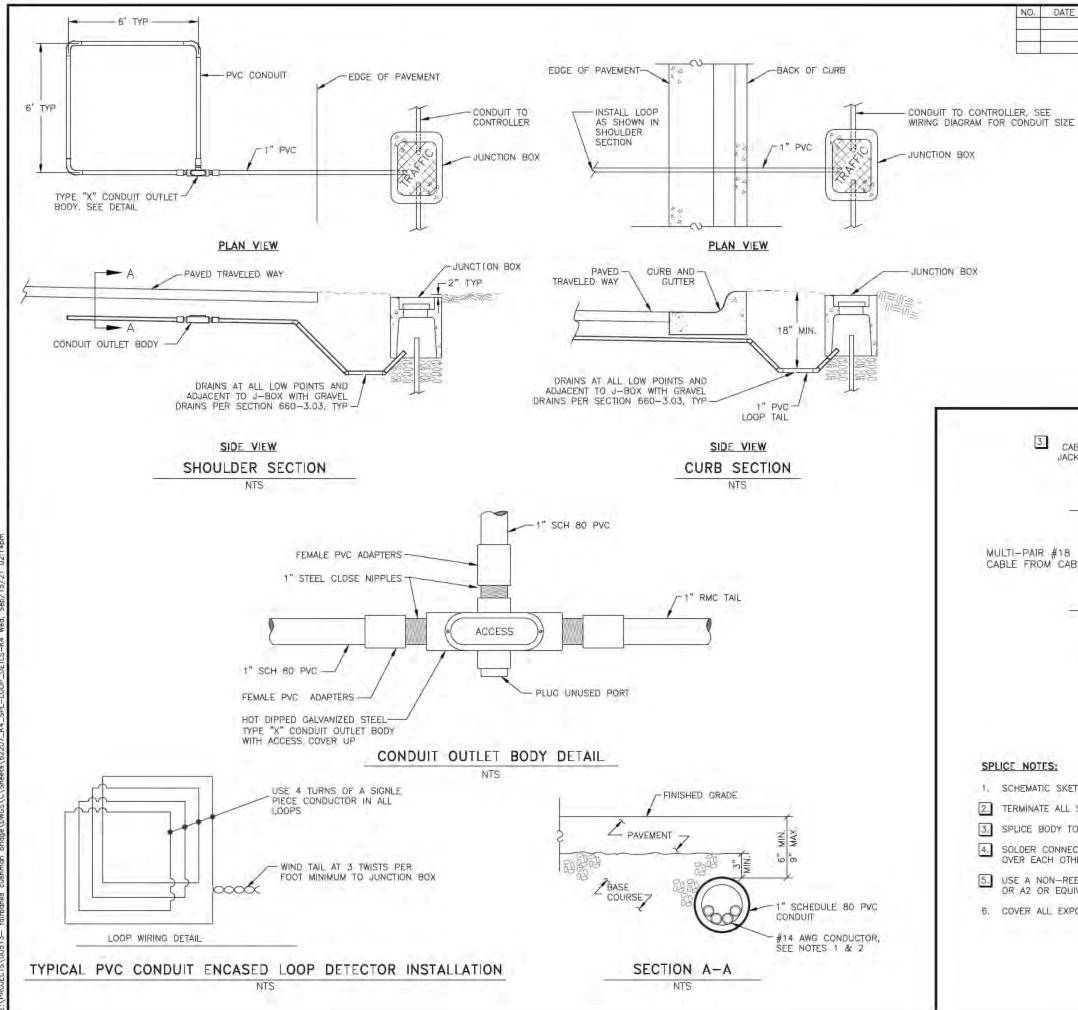
PIEZOELECTRIC SENSOR DETAILS



2021

K3

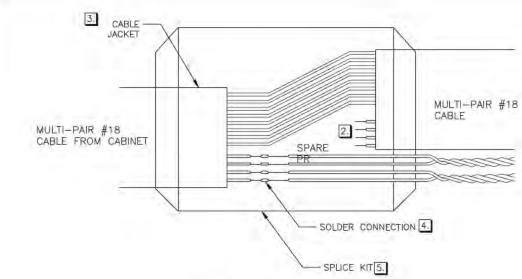
K5



NO. DATE REVISION STATE PROJECT DESIGNATION YEAR 0663012/Z622070000 2021 K4 K5

#### LOOP DETECTOR NOTES:

- 1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN 1" SCHEDULE BO PVC CONDUIT. FORM ALL LOOPS 6 FEET SQUARE, UNLESS NOTED OTHERWISE IN DETECTION SCHEDULE, SOLVENT WELD ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
- 2. 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 PRIOR TO PAVING NEW ROADWAY.
- 4. TEST ALL LOOP DETECTORS FOR CONTINUITY, INDUCTANCE, AND INSULATION RESISTANCE PRIOR TO SEALING THE LOOPS UNDER



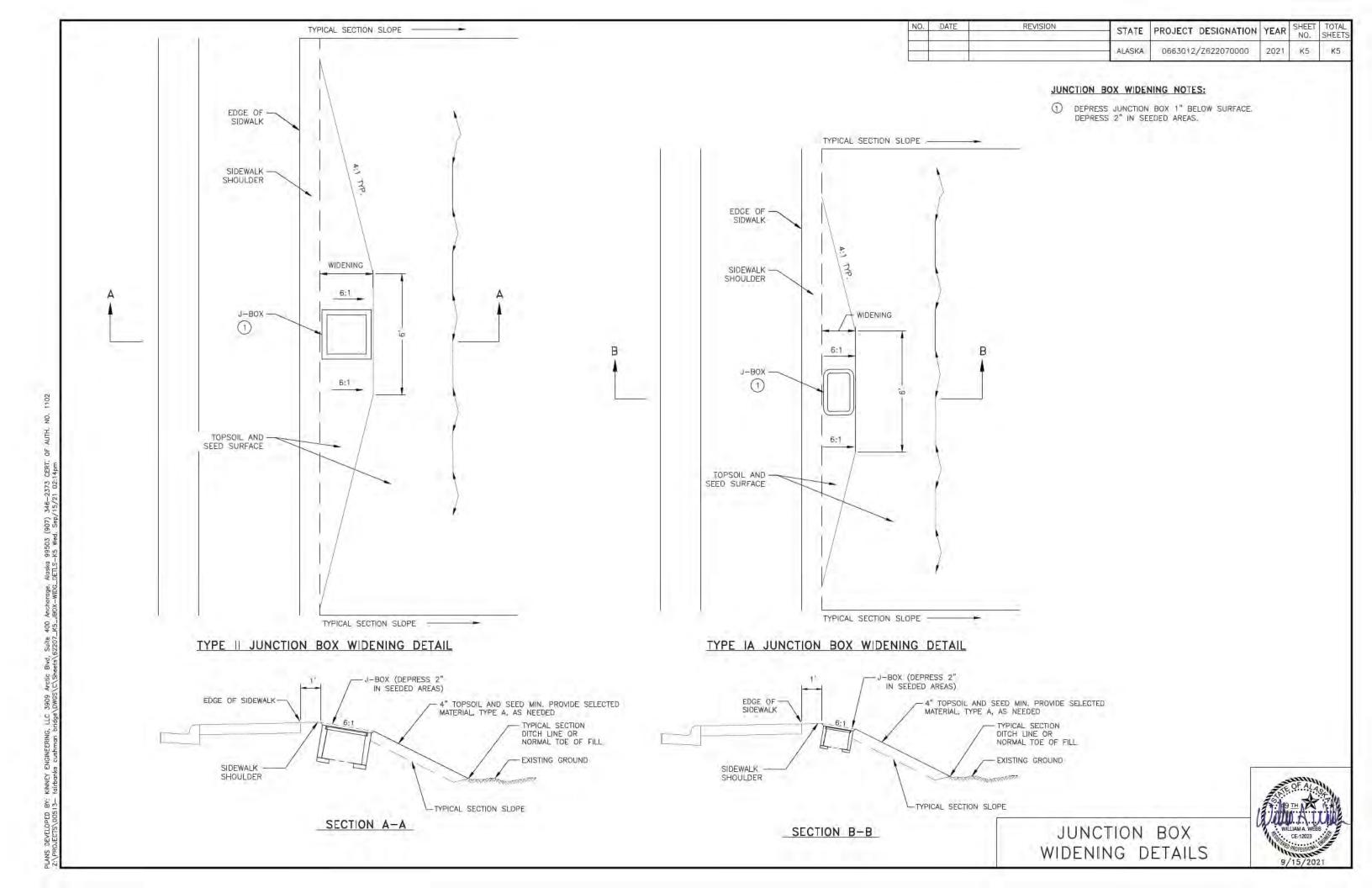
# TYPICAL SPLICE DETAIL

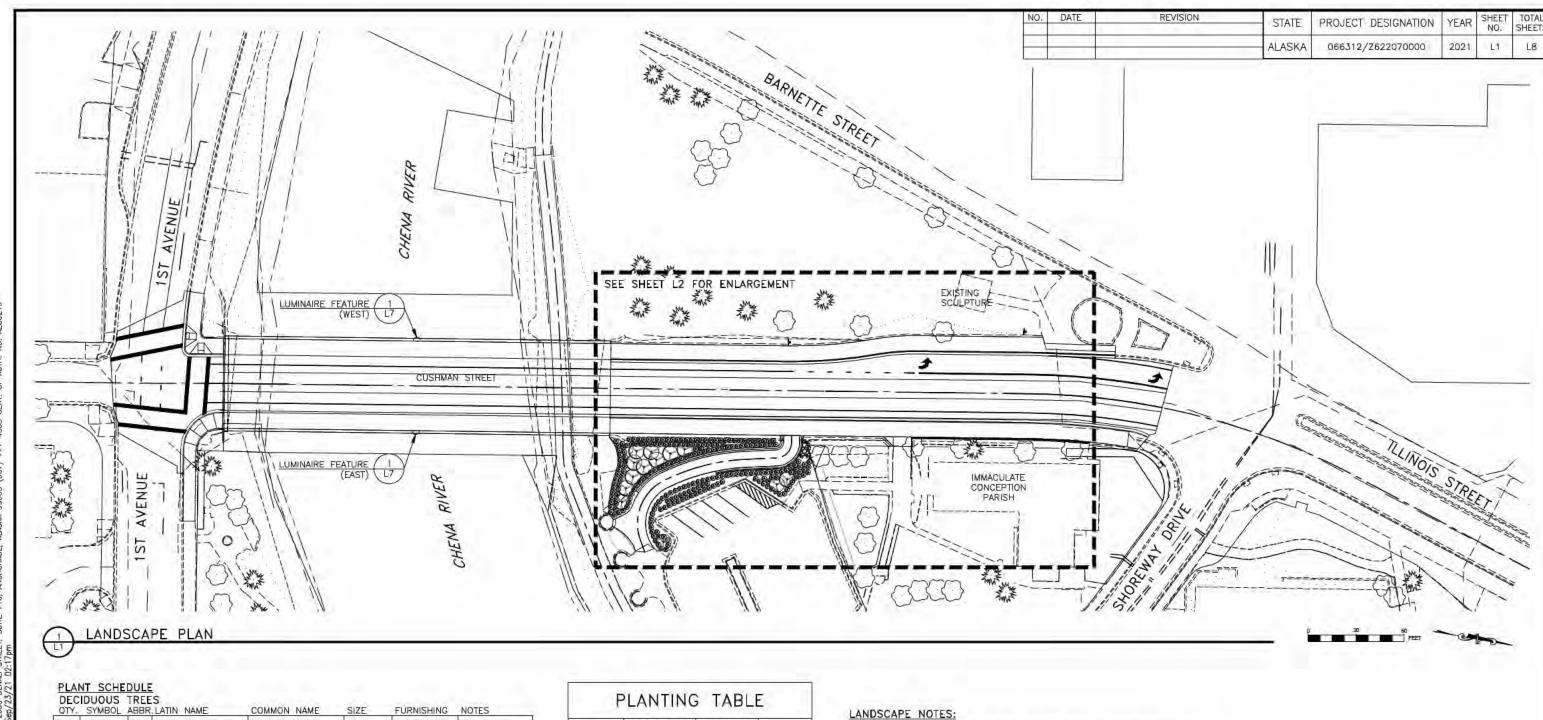
#### SPLICE NOTES:

- 1. SCHEMATIC SKETCH SHOWS AN EXAMPLE OF TWO PAIRS USED WITH ONE SPARE.
- 2. TERMINATE ALL SPARES WITHIN THE SPLICE BODY
- SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
- SOLDER CONNECTIONS. DO NOT USE COMPRESSION CONNECTORS. WRAP CONDUCTORS OVER EACH OTHER BEFORE SOLDERING.
- USE A NON-REENTERABLE, WET LOCATION, COMMERCIAL SPLICE KIT 3M TYPE 82-A1 OR A2 OR EQUIVALENT AS APPROVED BY THE ENGINEER.
- 6. COVER ALL EXPOSED CONDUCTORS WITH HEAT SHRINK TUBING, INCLUDING SPARES.

SPLICE AND PRESENCE LOOP DETAILS





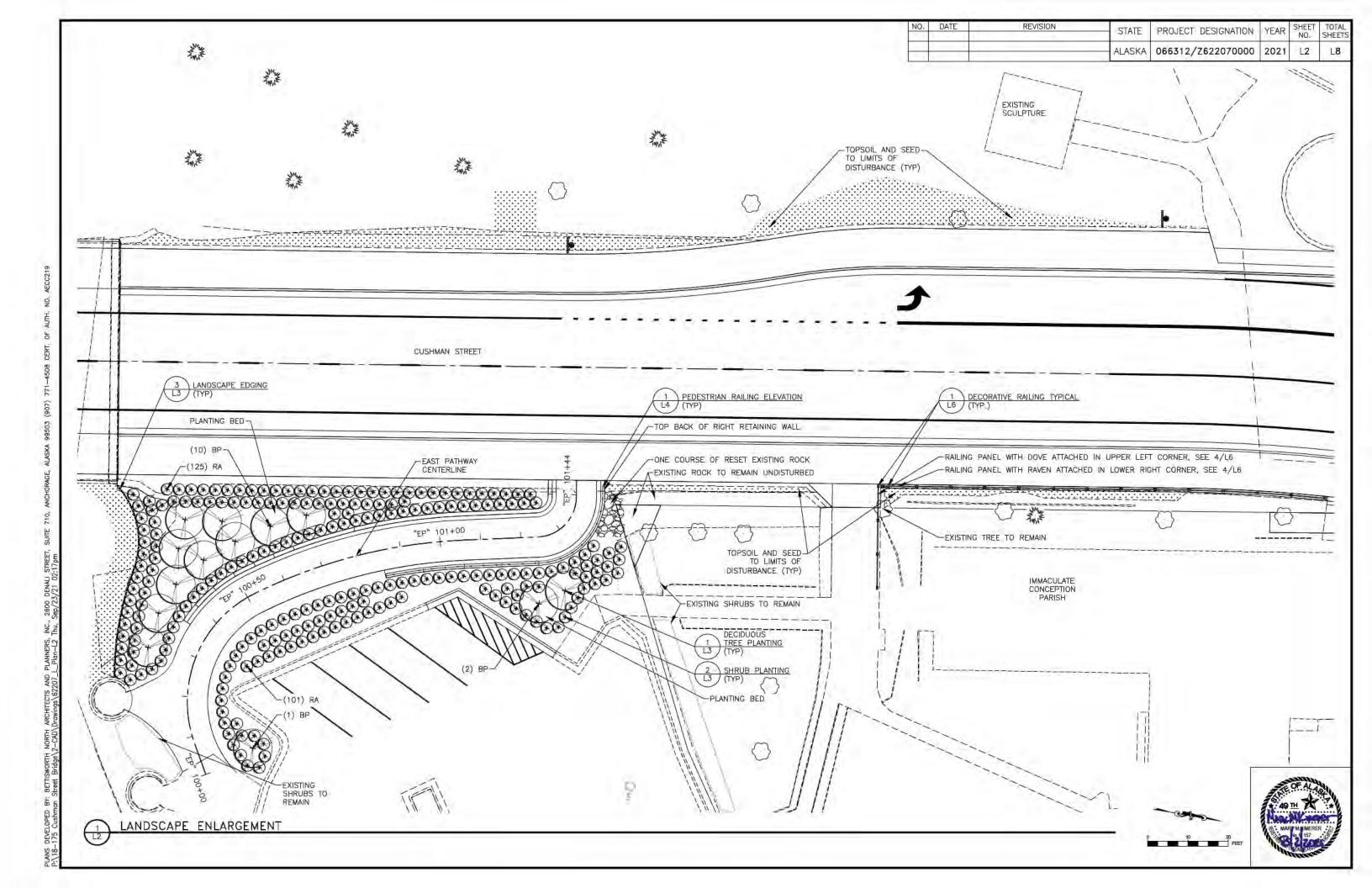


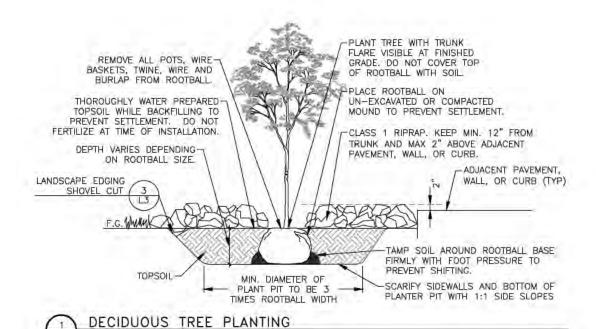
OTY.	SYM	BOL	ABBR	LATIN NAME		COMMON	NAME	SIZE	FURNISHING	NOTES
13	0	)	BP	BETULA PAPY	RIFERA	PAPER BIR	СН	1.5" CAL	B&B	SINGLE STEM
SHR	UBS SYM	BOL.	ABBR	LATIN NAME		COMMON	NAME	SIZE	FURNISHING	NOTES
226	6	9	RA	ROSA ACICUL	ARIS	PRICKLY R	OSE	24" HT	POTTED	
MISC	BOL		OUS	ION	NOTE	ES	2000 E/T CE	LANEOUS	1 A 1 W 1	NOTES
	_	LAND	SCAP	E EDGING	SHO	VEL CUT	0	EXISTING DECIDUOUS TREE		
ė	•	PEDE	STRIA	AN RAILING			~	DECIDOC	US TREE	
	-	DEC	)RATI\	/E RAILING	1		W.	EXISTING EVERGREEN TREE		
			OPSO MIX	IL AND		LIMITS OF URBANCE				
		RESE		ISTING						

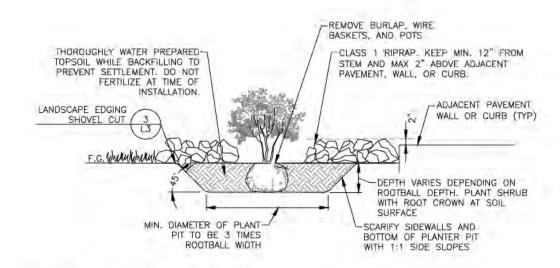
PLANTING TABLE							
POINT #	SPECIES ID (ABBR)	NORTHING	EASTING				
315	BP	67160.52	32421.70				
316	BP	67154.70	32425.96				
317	BP	67091.12	32473.58				
318	BP	67065.31	32436.88				
319	BP	67071.00	32429.75				
320	BP	67077.93	32423.89				
321	BP	67085.83	32418.62				
378	BP	67062.30	32444.67				
379	BP	67064.42	32428.07				
380	BP	67073.86	32419.52				
381	BP	67094.18	32414.41				
382	BP	67064.75	32420.70				
383	BP	67061.23	32453.50				

- ALL PLANTS SHALL BE NURSERY GROWN UNLESS OTHERWISE SPECIFIED.
   ALL PLANTING BEDS SHALL RECEIVE 18" DEPTH TOPSOIL AND ONE COURSE OF CLASS 1 RIPRAP, PLANTING BED LOCATIONS ARE INDICATED ON SHEET L2.
   REFER TO SHEET L3 FOR LANDSCAPE PLANTING DETAILS.



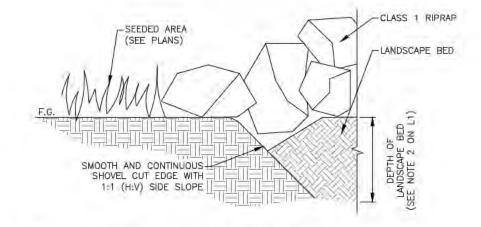






SHRUB PLANTING

NTS



3 LANDSCAPE EDGING, SHOVEL CUT



TOTAL

L8

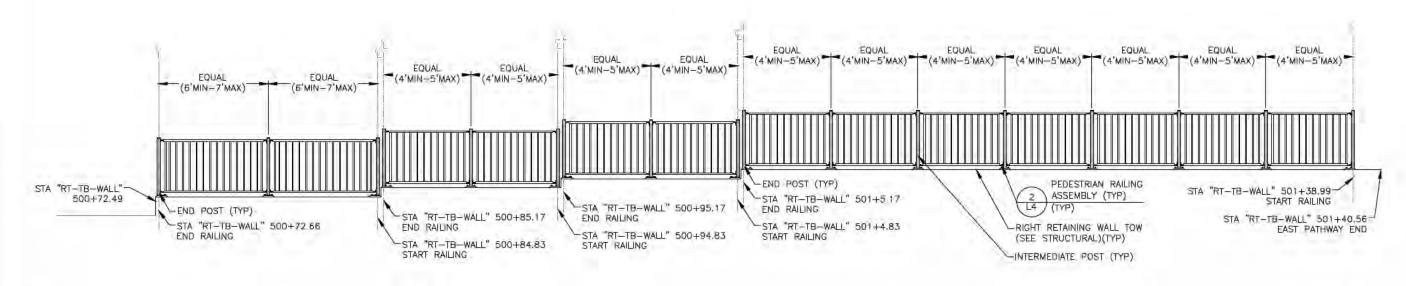
SHEET NO.

L3

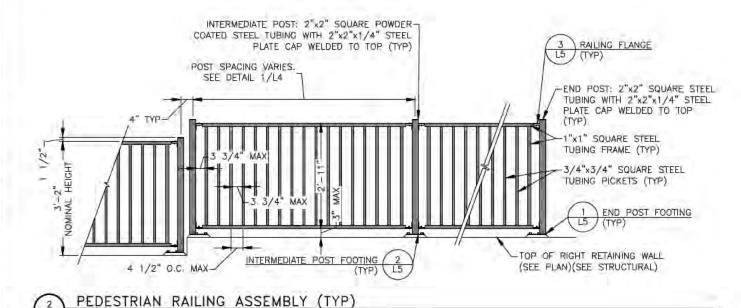
YEAR

2021

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL
			ALASKA	066312/Z622070000	2021	L4	L8



PEDESTRIAN RAILING ELEVATION  $\binom{1}{L4}$ 



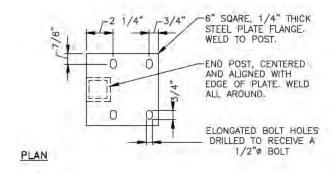
- NOTES:

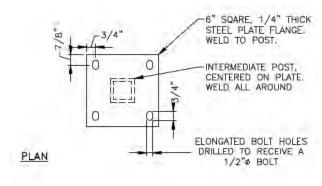
  1, ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION.

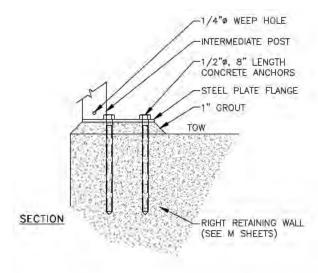
  2. STATIONS PROVIDED IN THE RAILING DETAILS ARE FOR THE TOP BACK OF THE RIGHT

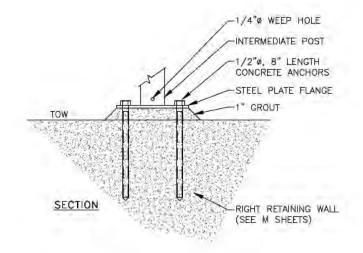
3. SEE STRUCTURAL FOR RETAINING WALL DETAILS AND ELEVATIONS.
4. RAILING SHALL BE CENTERED ON TOP OF WALL AND SHALL MATCH RADIUS OF WALL.
6. GRIND SMOOTH ALL EDGES AND CORNERS.
7. WELD ALL JOINTS UNLESS OTHERWISE NOTED.
8. ALL RAILING AND COMPONENTS ARE TO BE POWDER COATED AS SPECIFIED.

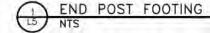


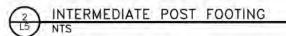


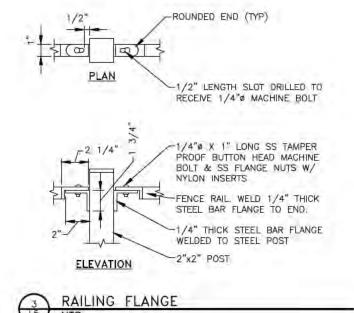










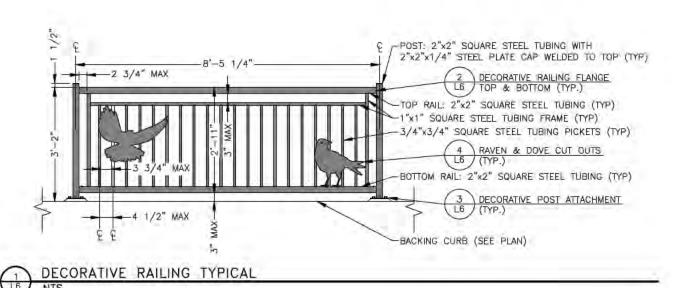


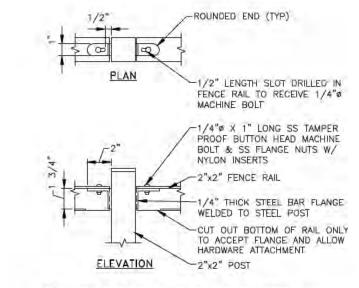
ALL STEEL COMPONENTS ARE TO BE POWDER COATED AS SPECIFIED.
 GRIND SMOOTH ALL EDGES AND WELDS PRIOR

TO POWDER COATING.

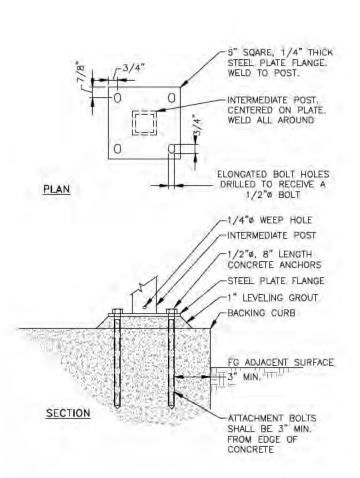
3. ALL POSTS AND RAILS TO BE PLUMB AND LEVEL

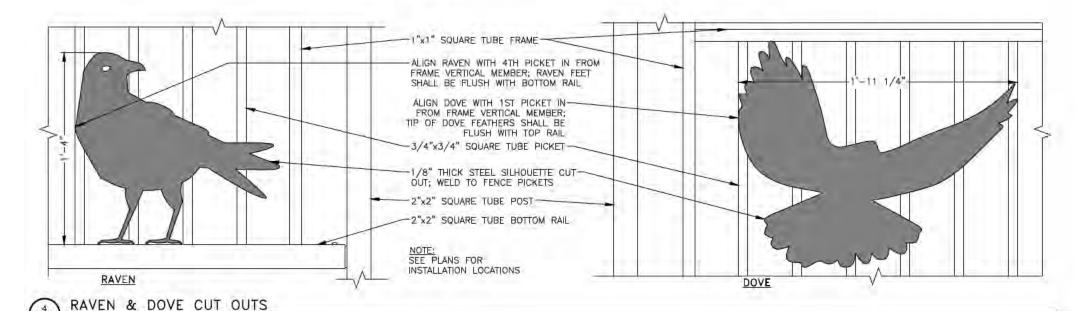






DECORATIVE RAILING FLANGE
NTS





NOTES.

1. ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION.

2. WELD ALL JOINTS UNLESS OTHERWISE NOTED.

 ALL RAILING AND COMPONENTS ARE TO BE POWDER COATED AS SPECIFIED. COLOR TO MATCH RAL 5014 PIGEON BLUE.
 GRIND SMOOTH ALL EDGES, CORNERS, AND WELDS PRIOR TO

 GRIND SMOOTH ALL EDGES, CORNERS, AND WELDS PRIOR TO POWDER COATING.

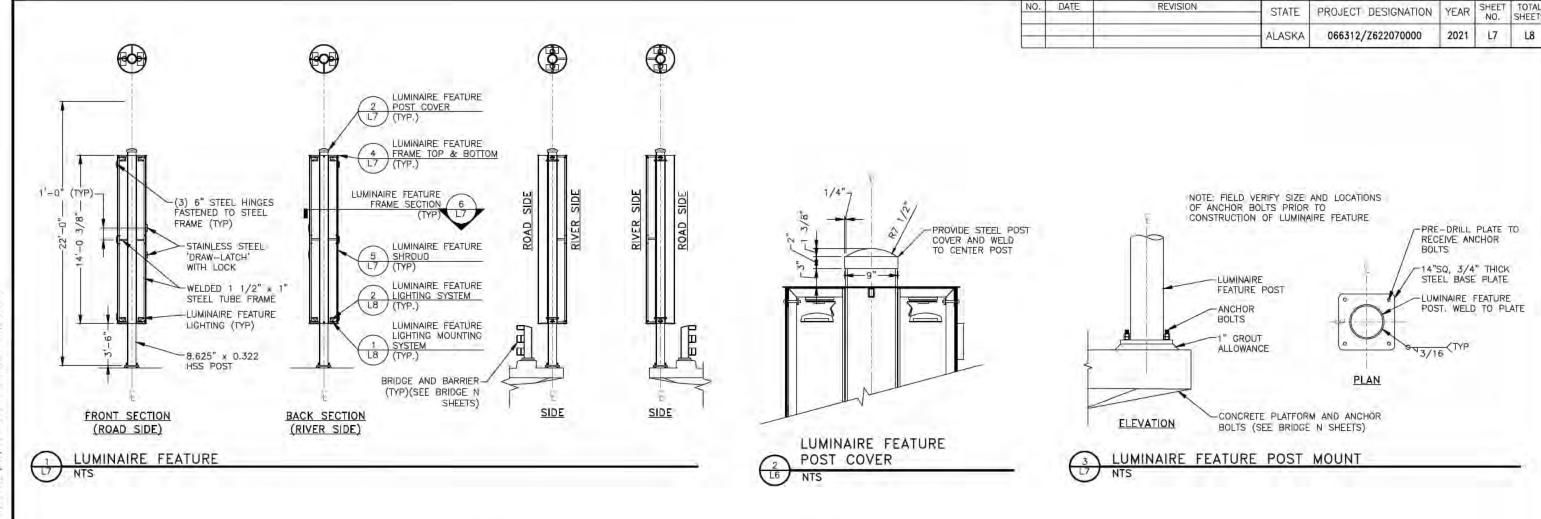
5. ALL POSTS AND RAILS TO BE PLUMB AND LEVEL.

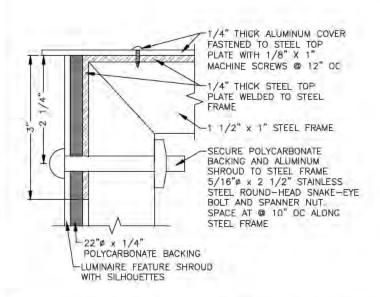
(3) (15)

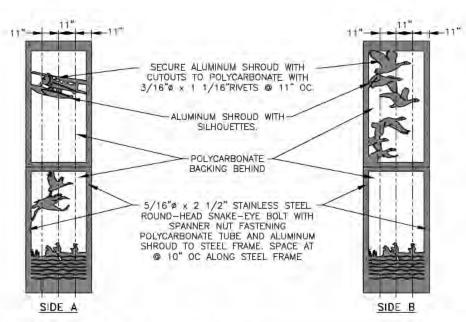
PLANNERS, I

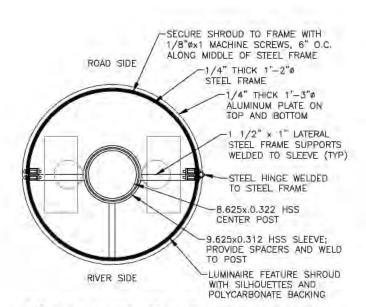
DECORATIVE POST ATTACHMENT











1. GRIND SMOOTH ALL EDGES AND WELDS.
2. ALL STEEL PARTS TO BE POWDER COATED BLACK—BROWN TO MATCH RAL 8022.
3. ALL ALUMINUM PARTS TO BE POWDER COATED BLACK—BROWN TO MATCH RAL 8022.
4. FIELD VERIFY SIZE AND LOCATIONS OF ANCHOR BOLTS PRIOR TO FABRICATION OF LUMINAIRE FEATURE.
5. CAD TEMPLATES FOR LUMINAIRE FEATURE SHROUD TO BE PROVIDED BY ENGINEER.
6. (4) LUMINAIRE FEATURE SHROUDS TO BE PROVIDED — (2) EACH OF SIDE A AND SIDE B AND LOCATED AS FOLLOWS;

WEST POLE RIVER SIDE: SIDE A ROAD SIDE: SIDE B 
LUMINAIRE FEATURE FRAME TOP & BOTTOM

PLANNERS, 1

5 LUMINAIRE FEATURE SHROUD

6 LUMINAIRE FEATURE FRAME SECTION
17 NTS

49 TH X

SHEET NO. TOTAL NO. DATE REVISION STATE PROJECT DESIGNATION YEAR 066312/Z622070000 2021 L8 L8 ALASKA

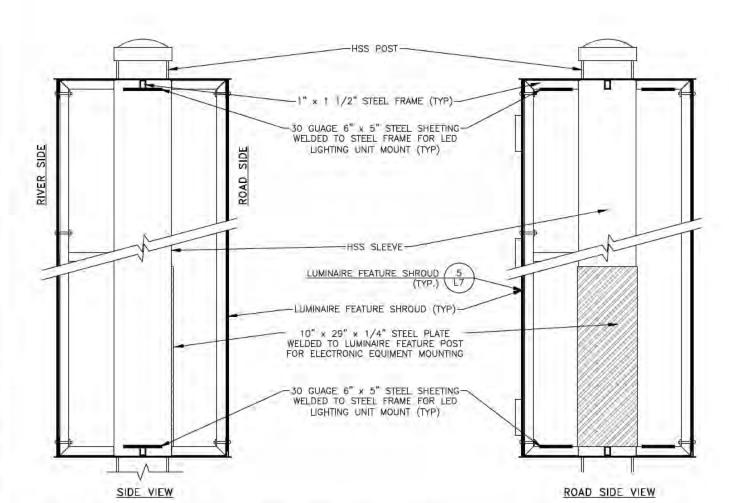
NOTES:

1. GRIND SMOOTH ALL EDGES AND WELDS.

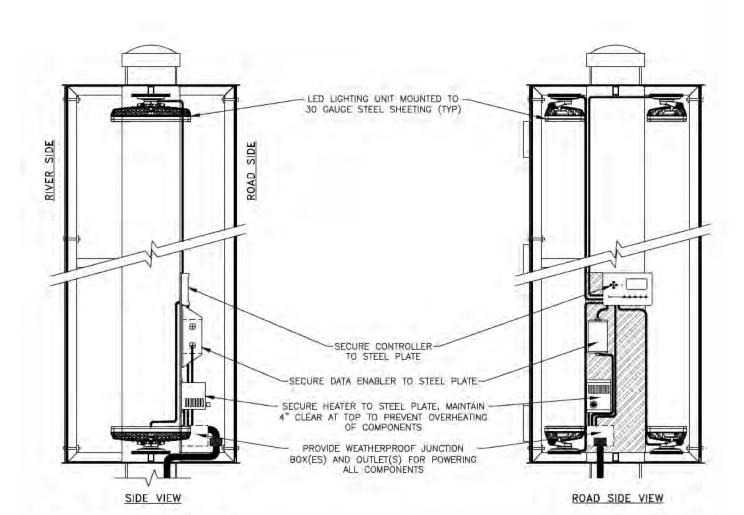
2. ALL STEEL PARTS TO BE POWDER COATED BLACK-BROWN TO MATCH RAL 8022.

LUMINAIRE FEATURE LIGHTING SYSTEM

WIRING IS SHOWN FOR REFERENCE ONLY.

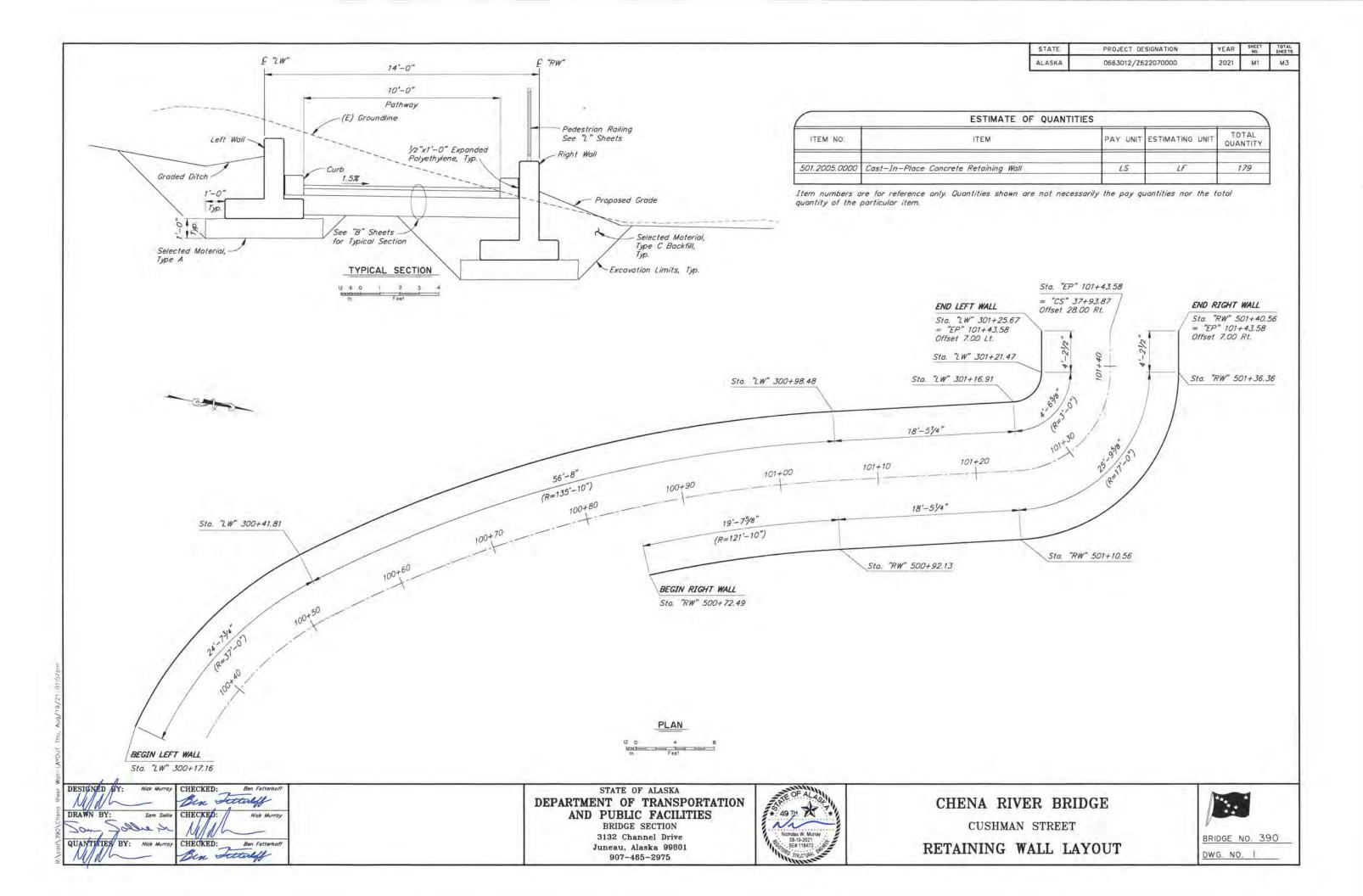


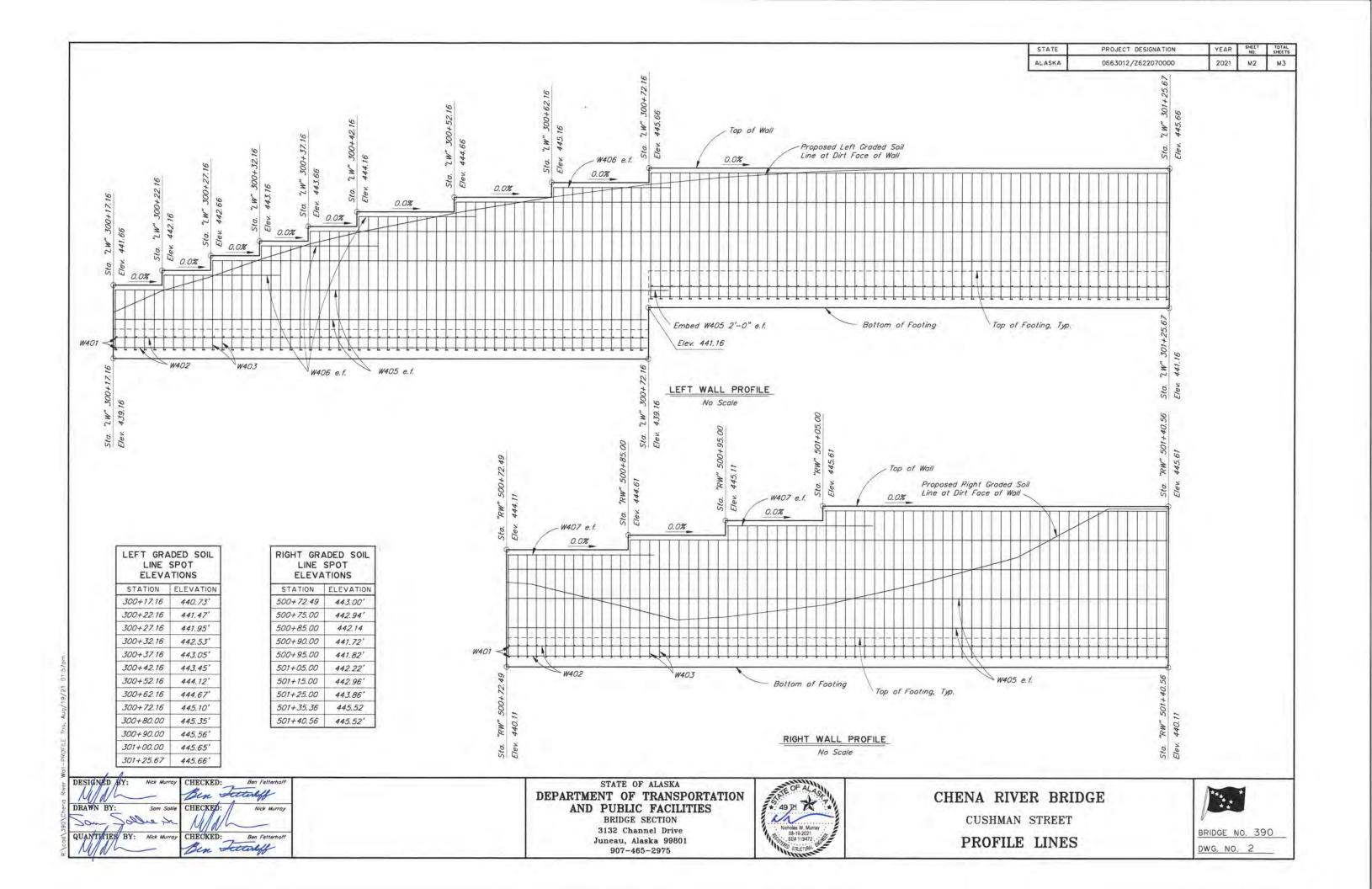
LUMINAIRE FEATURE LIGHTING MOUNTING SYSTEM

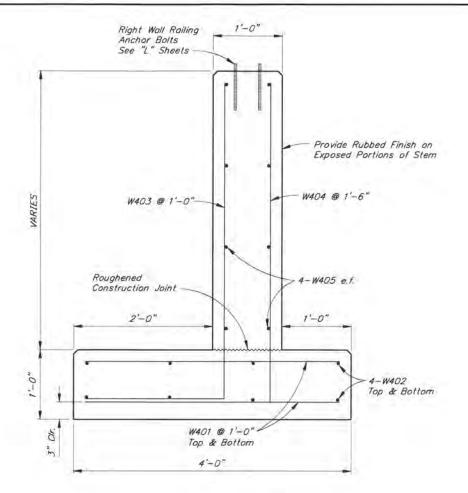


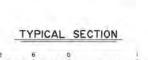
PROVIDE ALL WIRING, CONNECTIONS, MOUNTING HARDWARE, AND COMPONENTS FOR LED LIGHTING AND HEATER PER MANUFACTURER SPECIFICATIONS.
 SECURE ALL LOOSE WIRING.











STATE PROJECT DESIGNATION YEAR ALASKA 0663012/Z622070000 2021 M3

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
W401		4	356	3'-8"	
W402	L,M	4	24	VARIES	нен
W403		4	178	VARIES	BENT
W404		4	119	VARIES	877
W405	L,M	4	22	VARIES	-44
W406	M	4	4	12'-0"	1-1
W407	M	4	4	14'-6"	

53'-2" min. 67'-9" max. W402 2'-0" W403 35'-2" min. 98'-2" max. W405 W404

L - Length does not include lap splices M - Match curvature of wall

Joint may be formed with 1/8" hardboard and cut back to the root of the chamfer WEAKENED PLANE JOINT

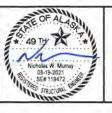
No Scale Space Joints evenly at 15'-0" max.

Ben Fetterh DRAWN BY: CHECKED: CHECKED: Ben Fetterhoff
Ben Tetterliff

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION

AND PUBLIC FACILITIES BRIDGE SECTION

3132 Channel Drive Juneau, Alaska 99801 907-465-2975



CHENA RIVER BRIDGE

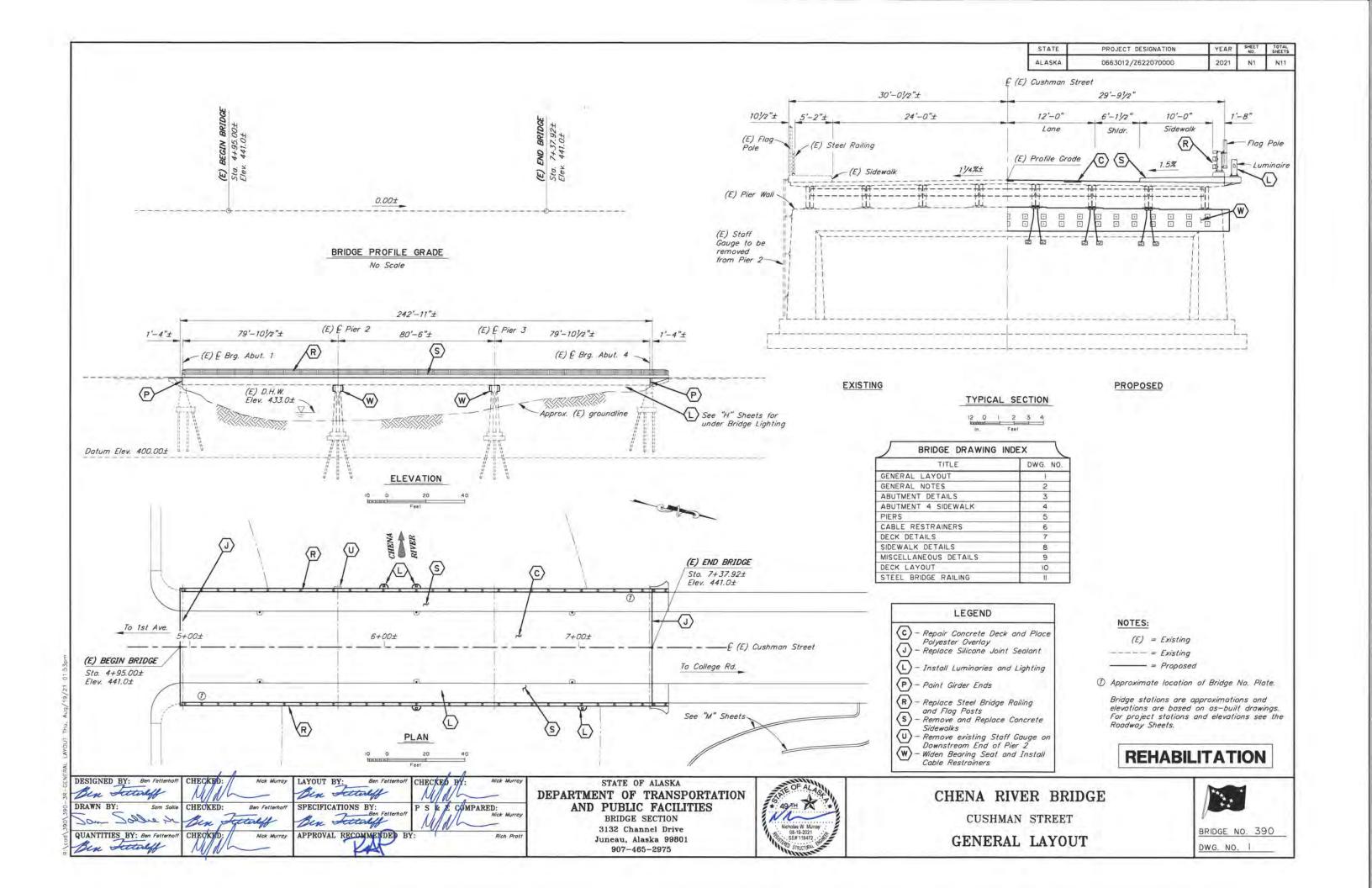
CUSHMAN STREET

WALL DETAILS



BRIDGE NO. 390

DWG. NO. 3



STATE	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
ALASKA	0663012/2622070000	2021	N2	N11

ESTIMATE OF QUANTITIES								
ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL		
501.0001.0000	Class A Concrete	LS	cr	33.3	146.3	179.6		
501.2001.0001	Spall Repair	SF	SF		290	290		
501.2018.0000	Coring Concrete	LF	LF	312		312		
502.0001.0000	Post-Tensioning, Rods	1.5	EA	92	1999	92		
503.0002,0000	Epoxy-Coated Reinforcing Steel	1.5	LBS	5,200	9,600	14,800		
503.0003.0000	Drill and Bond Dowels	EA	EA	392	E HEC	392		
504.2003.0000	Bridge Joint Restrainer Units	EA	EA		48	48		
507.0001.0003	Steel Bridge Railing, 3-Tube	LF	LF		502	502		
510.0001.0000	Removal of Concrete Bridge Deck	SF	SF		14,740	14,740		
510.2001.0000	Bridge Deck Repair	CS	SF		175	175		
513.0001.0000	Field Painting of Steel Structures	LS	SF		1,070	1,070		
516.0001.0000	Expansion Joint, Silicone	LF	LF		121	121		
516.0001.0004	Expansion Joint, Precompressed Silicone Coated	LF	LF.	500	49	49		
525.2001.0000	Polyester Concrete Overlay	15	CY		20.4	20.4		

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

#### BRIDGE AND RETAINING WALL GENERAL NOTES

DESIGN:	FHWA	Seismic	Retrofitting	Manual	for	Highway	Bridges,	1995.

AASHTO LRFD Bridge Design Specifications, 9th Edition, with latest interim specifications.

SEISMIC PARAMETERS:.....PGA = 0.28 Ss = 0.65 Si = 0.21 i = 0.21

LIVE LOAD: ..... See "AS-BUILT DRAWINGS"

REINFORCEMENT: ...... ASTM A706, Grade 60, Fy = 60,000 psi.

STRUCTURAL STEEL:............ASTM A709, Grade 50T3. Fy = 50,000 psi. unless otherwise noted. Galvanize all structural steel in accordance with AASHTO M111 and M232 unless otherwise noted.

POST-TENSIONING RODS: AASHTO M275, TYPE II, Galvanized, Fu = 150,000 psi.

HIGH STRENGTH BOLTS:.... Galvanized ASTM F3125 Grade A325 or F1852, Fu=120,000 psi. Exclude threads from shear plane. Do not use punched holes.

"As-Built" drawings, fabrication shop drawings or other documentation for the existing bridges note significant changes from the original contract plans but do not necessorily show normal construction tolerances and variances. These documents are for informational use only and the Department neither warrants nor represents that these documents accurately depict the configuration of the existing bridges. Where dimensions of the proposed work in this Contract are dependent on the dimensions of the existing bridge, adjust dimensions of the work to fit existing conditions.

#### BRIDGE AND RETAINING WALL ABBREVIATIONS

E	=	centerline	ft.	= feet
R	=	plate	1.1.	= front/air face
de	=	and	f'c	= specified concrete
0	=	ot		compressive strength
Ø	=	diameter	Fy	= yield stress
±	=	approximate	Glav.	= galvanize
AASHTO	=	American Association of	Hwy.	= highway
		State Highway and	ksf	= 1000 pounds per square foo
		Transportation Officials	LB	= pound
ASTM	=	American Society for Testing	LF	= linear foot
		and Materials	15	= lump sum
Abut.	=	abutment	Lt.	= /eft
Approx.	=	approximate	max.	= maximum
b.f.	=	back/dirt face	min.	= minimum
bot.	=	bottom	n.f.	= near face
Br.	=	bridge	No.	= number
btwn.	=	201110011	O.C.	= on center
Brg.	=	Bearings	O.D.	= outside diameter
C.I.P.	=	cast in place	O.H.W.	= ordinary high water
Clr.	=	clear, clearance	pcf	= pounds per cubic fool
CY	=	cubic yord	psf	= pounds per square foot
D.H.W.	=	design high water	psi	= pounds per square inch
dia.	=	0.0.1.0.0	R.O.W.	= right of way
Dwg.	=	drawing	Rt.	= right
E	=	expansion	Rd.	= road
(E)	=	existing	SPC.	= space, spaces
EA	=	each	Sto.	= station
Elev.	=	elevation	SF	= square feet
e.f.	=	each face	Symm.	= symmetric
e.w.	=	each way	Typ:	= typical
F	=	fixed	w/	= with

DESIGNED BY: Ben Fetterhoff CHECKED: Nick Murroy

DRAWN BY: Som Sollie CHECKED: Ben Fetterhoff

QUANTITIES BY: Ben Fetterhoff CHECKED: Nick Murroy.

Ben Setterliff

REHABILITATION

DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975



CHENA RIVER BRIDGE

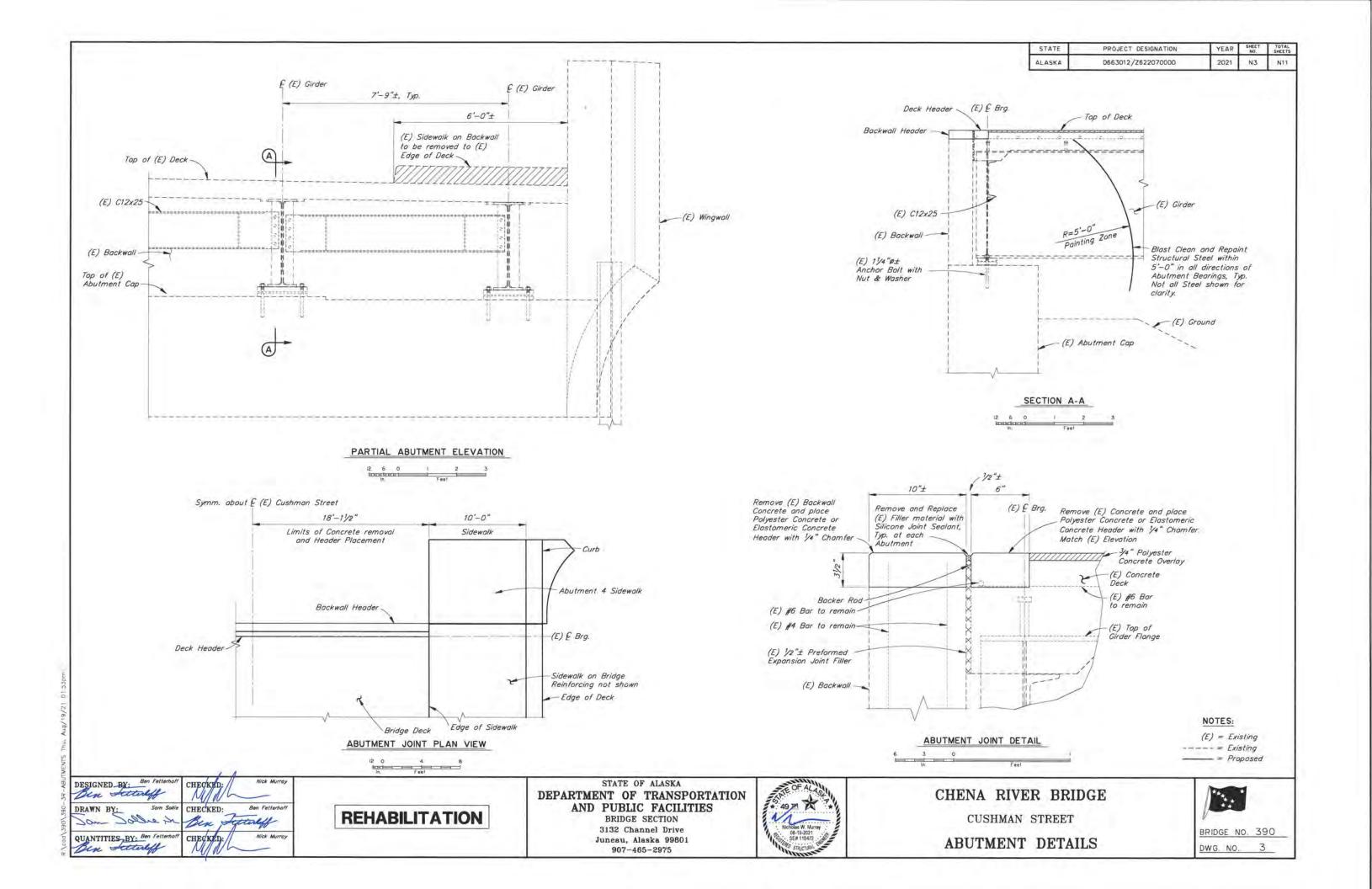
CUSHMAN STREET

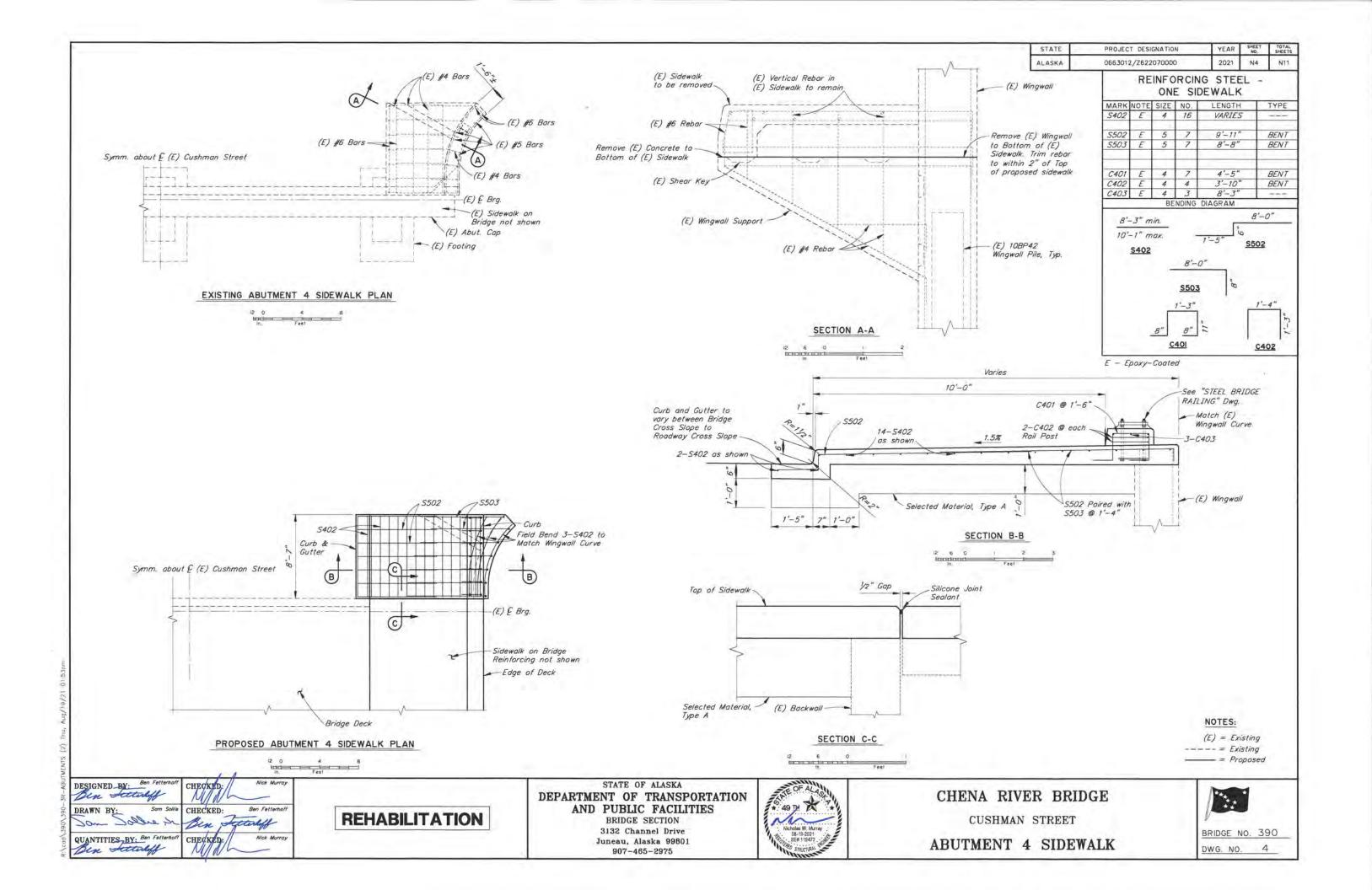
GENERAL NOTES

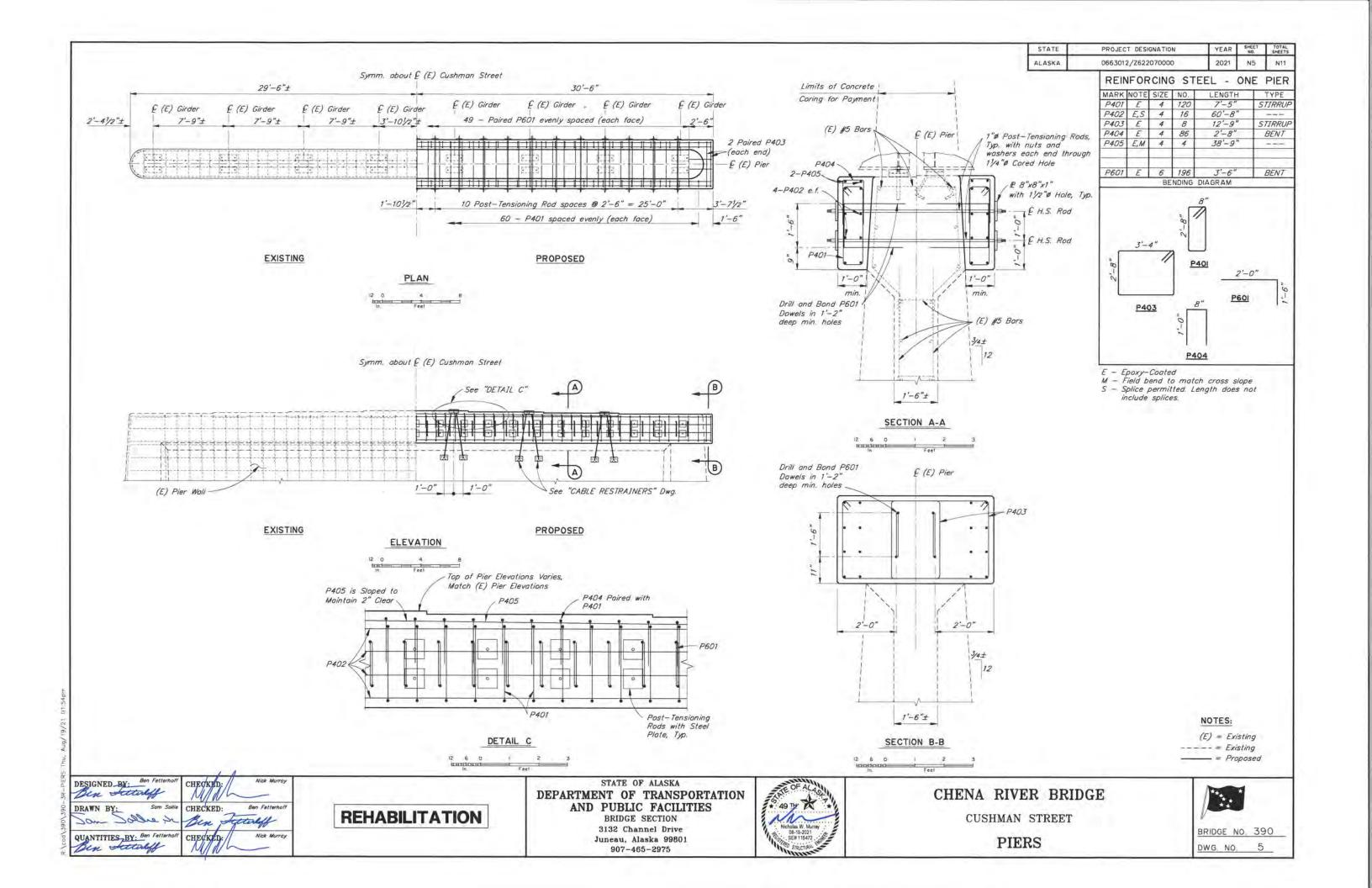


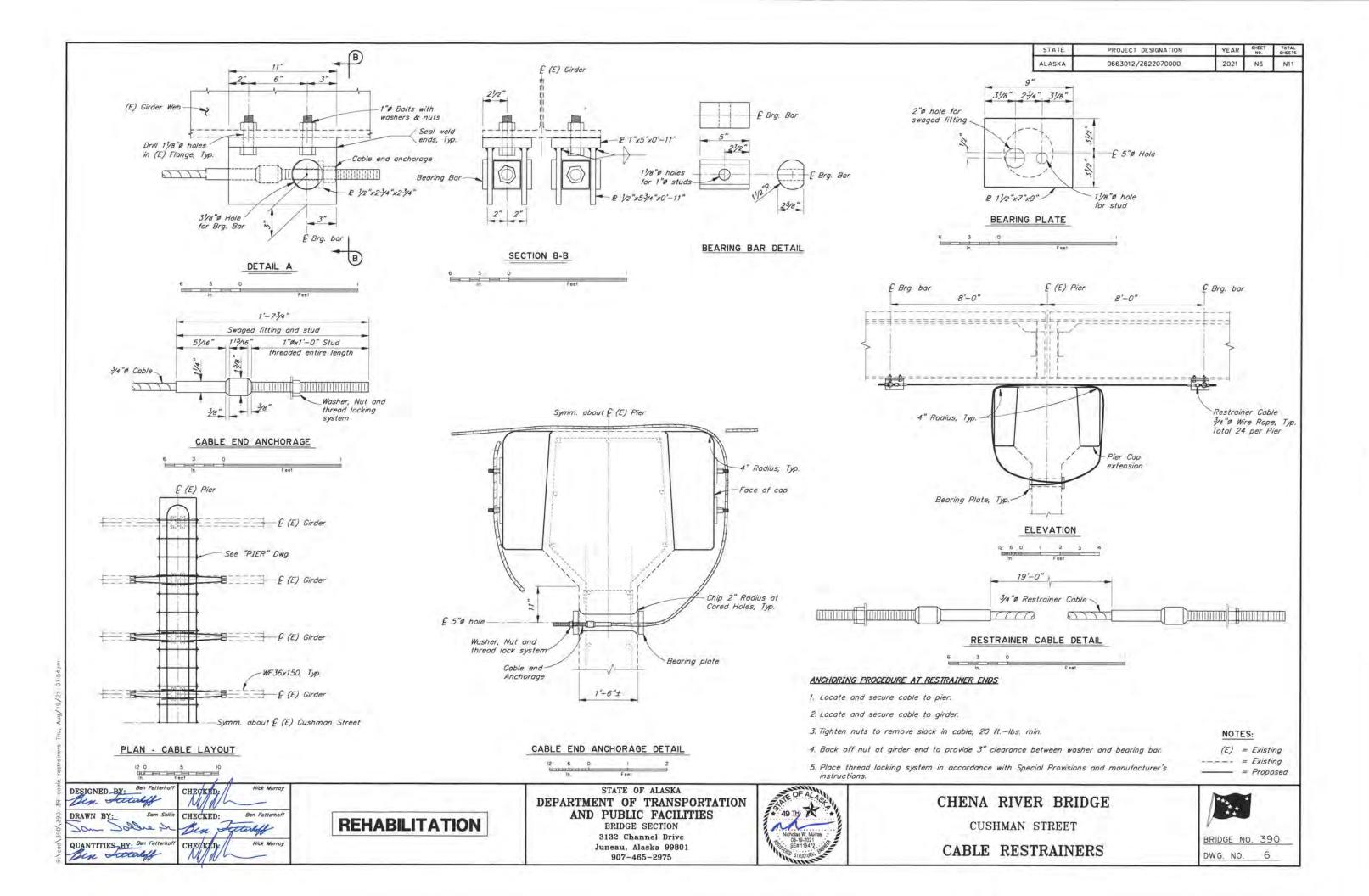
BRIDGE NO. 390 DWG. NO. 2

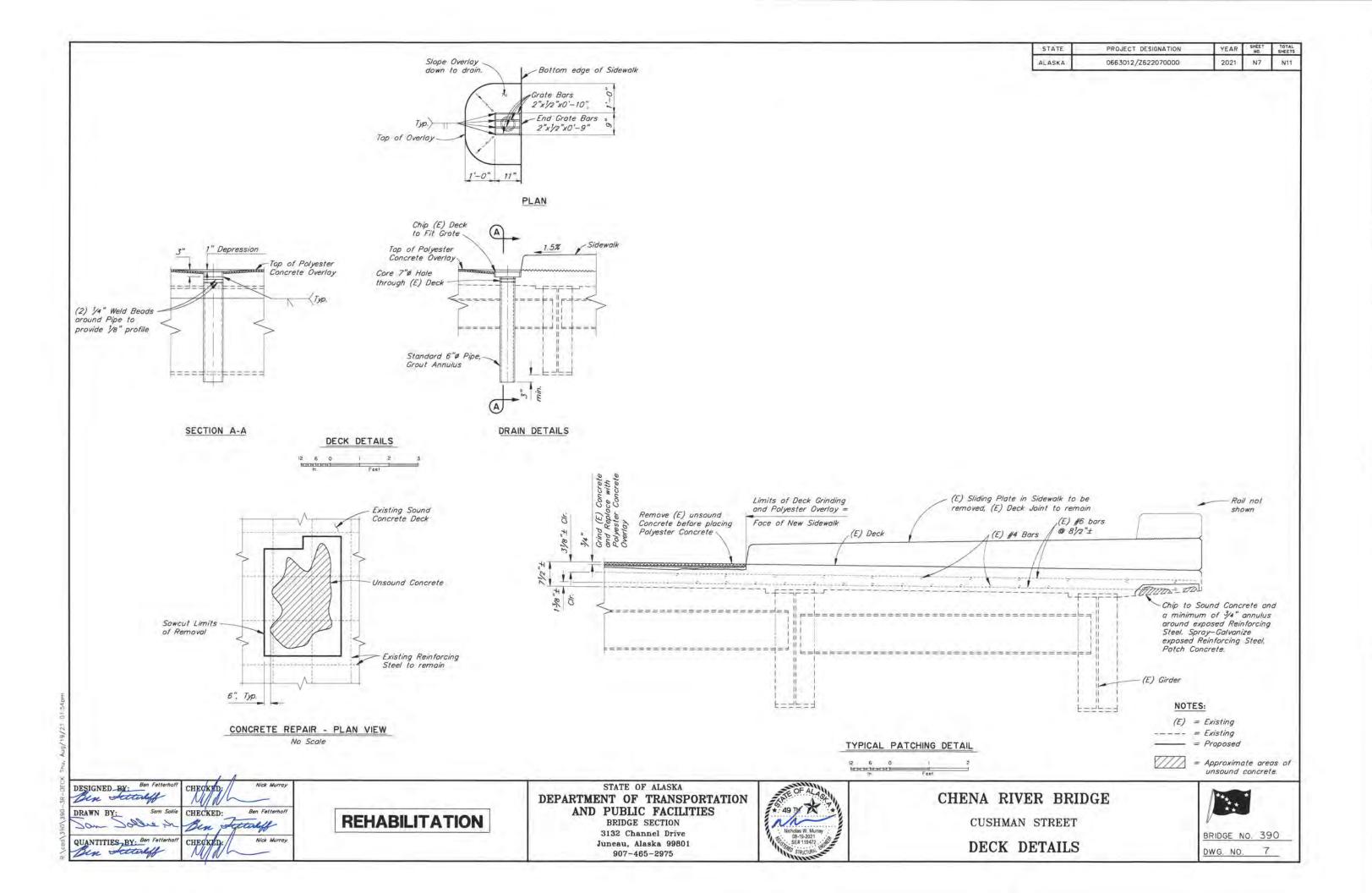
A Content of the Aug 18/2 of South

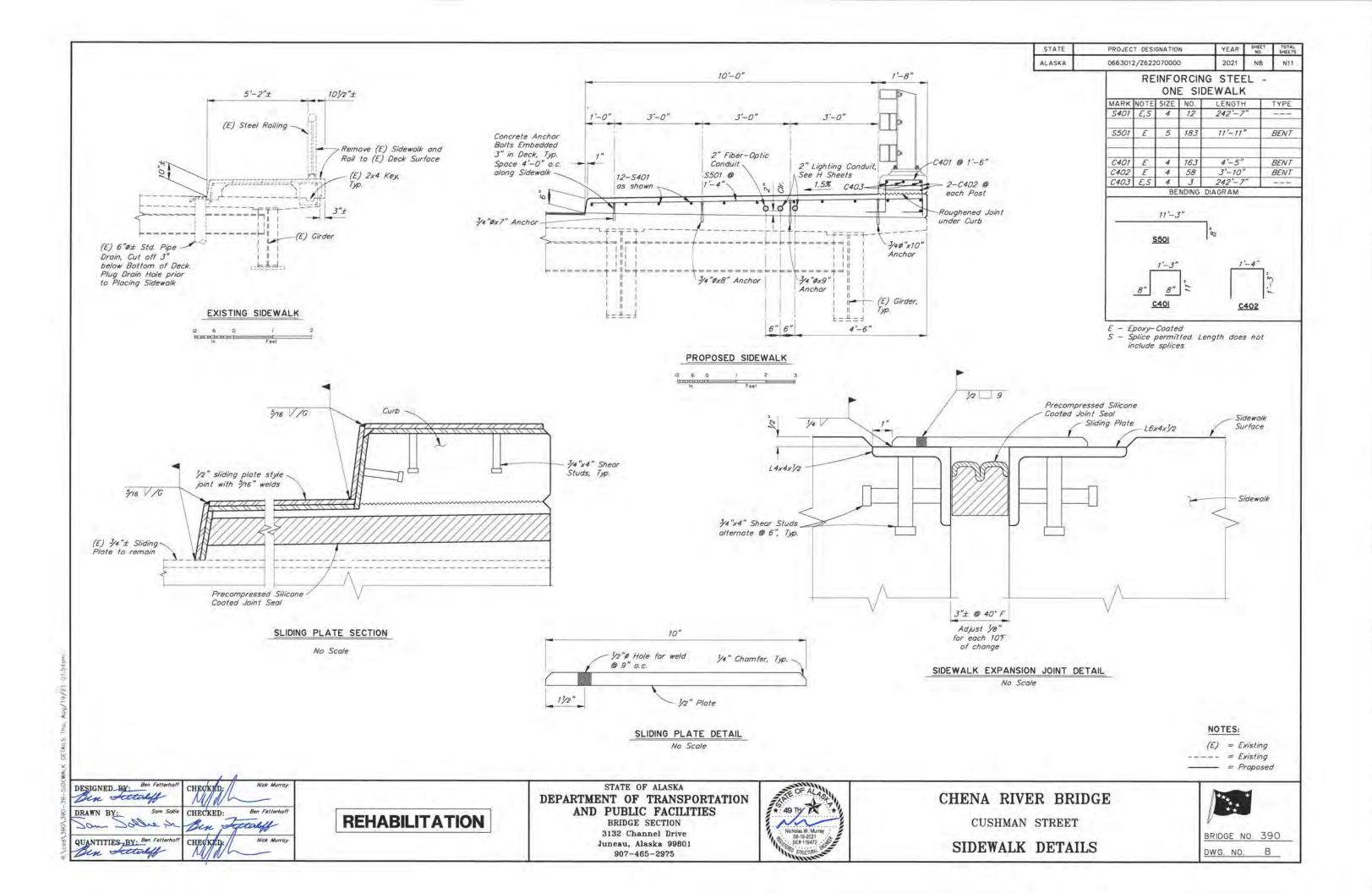


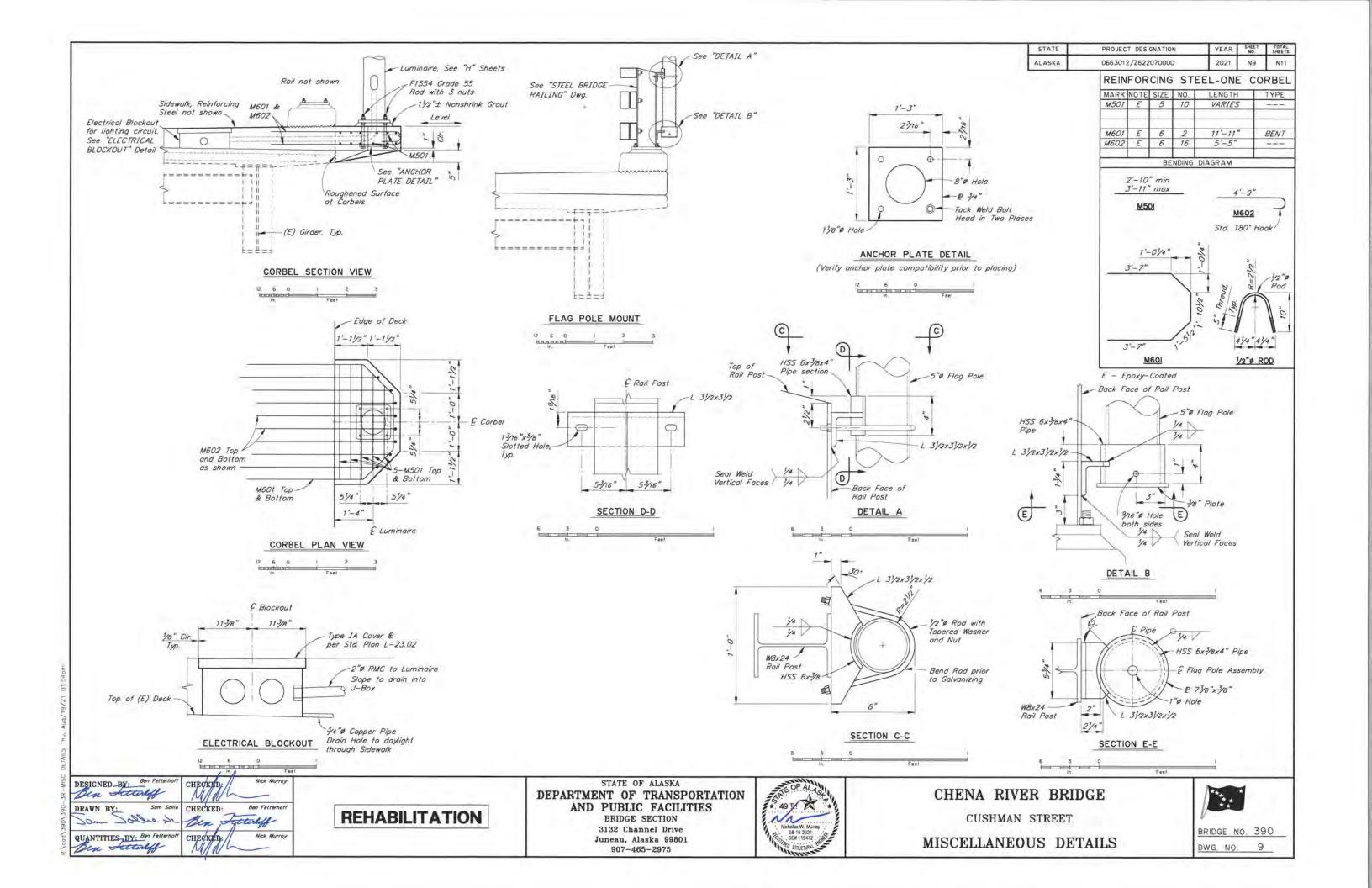


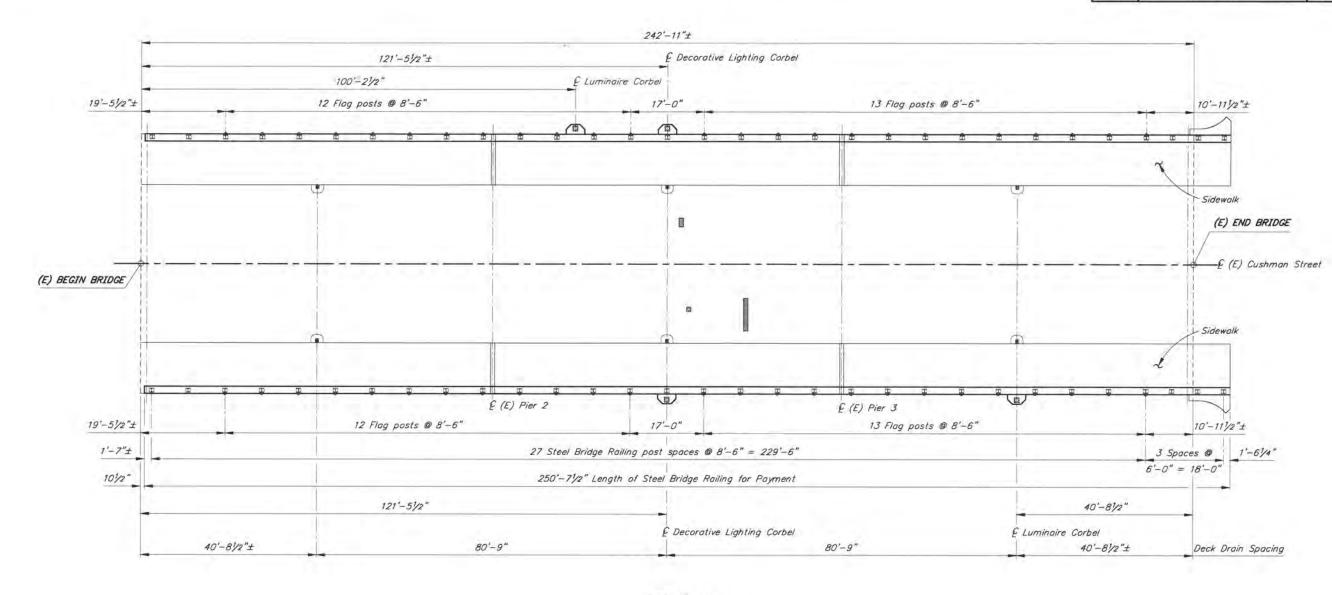












DECK PLAN

NOTES:

=

 Approximate areas of unsound concrete.

DESIGNED BY: Ben Fetterhoff

DEN Statestoff

DRAWN BY: Som Sollie CHECKED: Ben Fetterhoff

QUANTITIES BY: Ben Fetterhoff

CHECKED: Nick Murroy

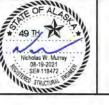
Din Statestoff

Nick Murroy

REHABILITATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975



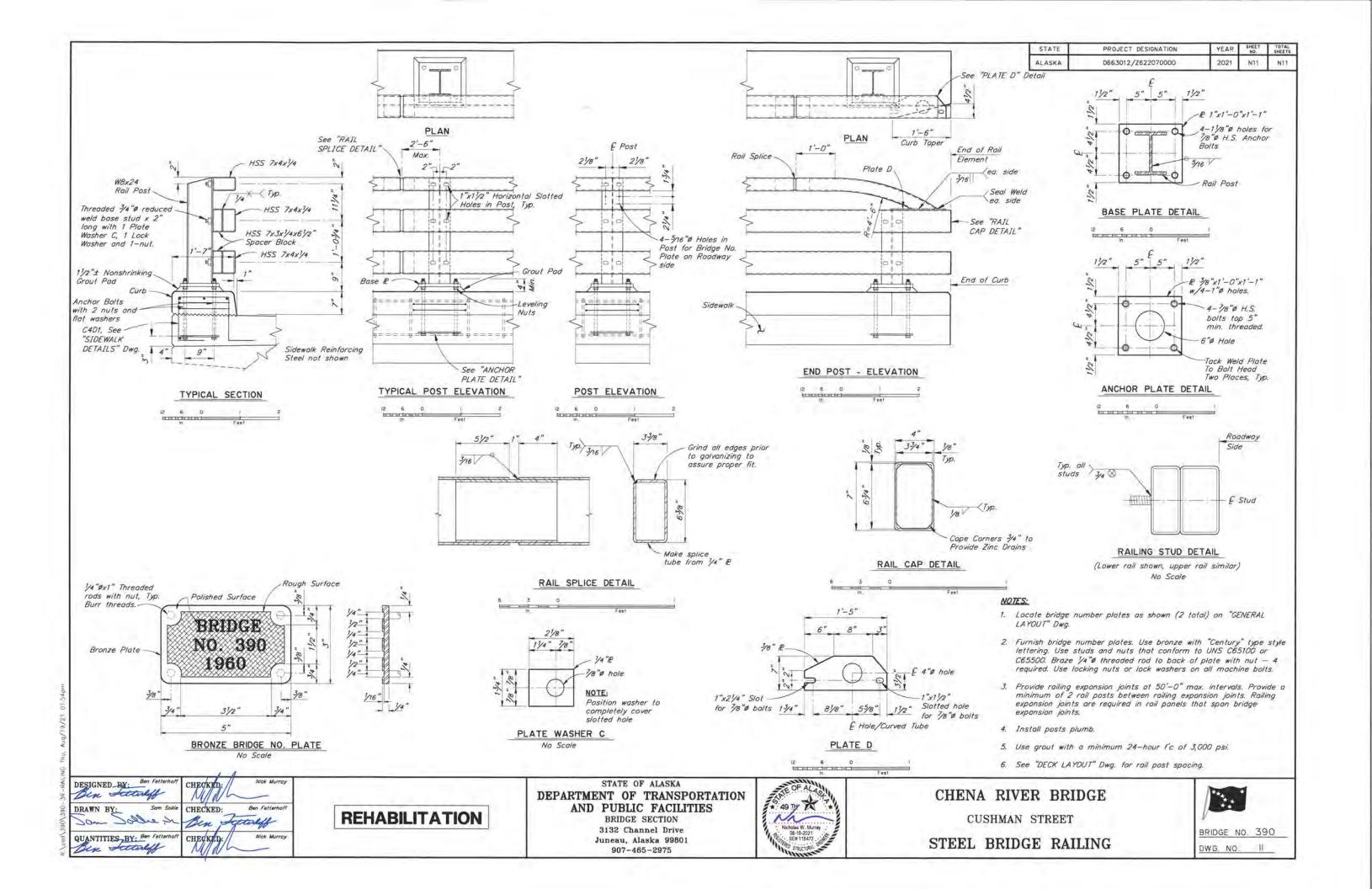
CHENA RIVER BRIDGE

CUSHMAN STREET

DECK LAYOUT



BRIDGE NO. 390 DWG. NO. 10



- 10, FAIRBANKS MERIDIAN.
- SITE FUNCTION: ROAD. 3. AVERAGE ANNUAL PRECIPITATION: 10.53 INCHES (SOURCE: WESTERN REGIONAL CLIMATE CENTER) FOR FAIRBANKS WSO AIRPORT.
- 4. 2-YEAR, 24-HOUR RAINFALL EVENT: 1.09 INCHES (SOURCE: HTTP://HDCS.NWS.NOAA.GOV/HDSC/PFDS\_MAP\_AK.HTML) FOR
- 5. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOCATIONS FOR STOCKPILING MATERIAL AND STAGING AND STORING EQUIPMENT. STAGING AND STOCKPILE AREAS MUST COMPLY WITH CGP, SECTION 641, AND ALL PERMITS.
- 6. PROJECT AREAS ARE LISTED BELOW (MATERIAL SITES NOT INCLUDED):

PROJECT INFORMATI	ON TABLE
PROJECT AREA (ACRE)	1.26
DISTURBED AREA (ACRE)	0.93
PRE-CONSTRUCTION IMPERVIOUS AREA	80%
POST-CONSTRUCTION IMPERVIOUS AREA	83%
PRE-CONSTRUCTION RUNOFF COEFFICIENT	0.94
POST-CONSTRUCTION RUNOFF COEFFICIENT	0.96

- 7. LANDSCAPE TOPOGRAPHY: ROADWAY IS RAISED ABOVE THE FLAT SURROUNDING URBANIZED COMMERCIAL AREA. SLOPES FROM BACK OF SIDEWALK VARY FROM 2:1 TO 4:1. THE CHENA RIVER BANK SLOPES ARE STEEP AND HEAVILY VEGETATED.
- 8. DRAINAGE PATTERNS: ROADWAY RUNOFF IS COLLECTED INTO A PIPED STORM DRAIN SYSTEM THAT OUTFALLS INTO THE CHENA RIVER. BRIDGE RUNOFF DRAINS THROUGH EXISTING SCUPPERS THAT OUTFALL DIRECTLY INTO THE CHENA RIVER
- 9. SOILS: POORLY GRADED ALLUVIAL SAND AND GRAVEL OVERLAIN WITH SILT AND ORGANIC SILT.
- 10. EXISTING VEGETATION: PROJECT AREA IS COMMERCIAL WITH LIMITED LAWNS, SHRUBS, AND TREES.
- 11. APPROXIMATE GROWING SEASON: MAY 3 THROUGH OCTOBER 3 (SOURCE: USACE WETLANDS DELINEATION MANUAL: ALASKA REGION (VERSION 2)

#### **ENVIRONMENTAL INFORMATION:**

- 1. RECEIVING WATERS: CHENA RIVER/CITY OF FAIRBANKS MS4
- 2. IMPAIRED WATERS: CHENA RIVER
- 3. TOTAL MAXIMUM DAILY LOADS (TMDL): NONE
- 4. STORM SEWER/DRAINAGE SYSTEMS: CITY OF FAIRBANKS MS4 CONSISTING OF PIPED AND SURFACE WATER DRAINAGE NETWORK AND DISCHARGES TO THE CHENA RIVER. THIS PROJECT DOES NOT MODIFY THE EXISTING
- 5. THREATENED AND ENDANGERED SPECIES: NONE
- HISTORICAL & CULTURAL RESOURCE PRESENCE: IMMACULATE CONCEPTION CATHOLIC CHURCH. STATIC COMPACTION WILL BE USED DURING CONSTRUCTION NORTH OF THE CUSHMAN STREET BRIDGE TO MINIMIZE THE EFFECTS OF VIBRATIONS TO THE IMMACULATE CONCEPTION CATHOLIC CHURCH, A NRHP LISTED PROPERTY WITHIN THE PROJECT AREA.
- 7. TIME VEGETATION CLEARING TO COMPLY WITH THE MIGRATORY BIRD ACT. VEGETATION CLEARING WILL NOT BE ALLOWED DURING THE BIRD NESTING WINDOW, TYPICALLY MAY 1 - JULY 15, UNLESS A NEST SURVEY IS COMPLETED AND CONFIRMED THAT NO NESTS OR BIRDS WILL BE TAKEN.
- 8. EXISTING PUBLIC WATER SYSTEM (PWS) DRINKING WATER PROTECTION AREAS:
  - PWSID: AK2310730
  - WATER SYSTEM NAME: GOLDEN HEART UTILITIES
  - PWS CONTACT INFORMATION: BERNIE STACK
  - (907) 455-0117
  - BERNIE@AKWATER.COM
  - P.O. BOX 80370, FAIRBANKS, AK 99708
- 9. DEWATERING OF GROUNDWATER AND/OR STORMWATER THAT ACCUMULATES IN AN EXCAVATION AREA WITHIN 1,500 FT OF A DEC-IDENTIFIED CONTAMINATED SITE REQUIRES AN EXCAVATION DEWATERING PERMIT FROM DEC.
- 10. A PORTION OF THIS PROJECT IS WITHIN A SPECIAL FLOOD HAZARD AREA. A FNSB FLOODPLAIN DEVELOPMENT PERMIT (FP 2021-0054) HAS BEEN ACQUIRED. A CERTIFICATE OF COMPLIANCE APPLICATION SHALL BE SUBMITTED TO THE FNSB WITHIN 60 DAYS AFTER CONSTRUCTION IS COMPLETE.
- THE FOLLOWING DEC IDENTIFIED CONTAMINATED SITES ARE LOCATED WITHIN 1,500 FEET OF THE PROJECT AREA:
  - HAZARD ID 2918, FILE NUMBER 102.38.088 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)
  - HAZARD ID 24952, FILE NUMBER 102.26.114 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)
  - HAZARD ID 3223, FILE NUMBER 102.38.114 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)
  - HAZARD ID 733, FILE NUMBER 102.38.004 (STATUS: ACTIVE)
  - HAZARD ID 24153, FILE NUMBER 102.26.009 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)
  - HAZARD ID 24139, FILE NUMBER 102.26.013 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)
  - HAZARD ID 26689, FILE NUMBER 102.38.196 (STATUS: ACTIVE)
  - HAZARD ID 1591, FILE NUMBER 102.38.121 (STATUS: ACTIVE)
  - HAZARD ID 3821, FILE NUMBER 102.38.116 (STATUS: ACTIVE)
  - HAZARD ID 4654, FILE NUMBER 102.38.151 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)
  - HAZARD ID 1927, FILE NUMBER 102.38.072 (STATUS: ACTIVE)
  - HAZARD ID 24896, FILE NUMBER 102,26,153 (STATUS: ACTIVE) HAZARD ID 26466, FILE NUMBER 102.38.192 (STATUS: ACTIVE)
  - HAZARD ID 23786, FILE NUMBER 102.26.001 (STATUS: ACTIVE)
  - HAZARD ID 3955, FILE NUMBER 102.38.119 (STATUS: CLEANUP COMPLETE INSTITUTIONAL CONTROLS)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	A 0663012/Z622070000		Q1	Q3

#### ESCP NOTES:

- 1. THE PROJECT'S DISTURBED AREA IS UNDER 1 ACRE AND DOES NOT REQUIRE A SWPPP TO BE DEVELOPED OR A NOI
- 2. READ AND COMPLY WITH SECTION 641 OF THE PROJECT SPECIFICATIONS.
- 3. THIS EROSION SEDIMENT CONTROL PLAN (ESCP) IS GENERAL IN NATURE AND IS PROVIDED AS GUIDANCE FOR THE DEVELOPMENT OF THE:
  - HAZARDOUS MATERIAL CONTROL PLAN (HMCP)
  - SPILL PREVENTION, CONTROL AND COUNTERMEASURES (SPCC) PLAN IF APPLICABLE
- 4. INITIATE EROSION AND SEDIMENT CONTROLS PRIOR TO ANY EARTH DISTURBING ACTIVITIES.
- 5. SELECT AND APPLY APPROPRIATE CONTROLS TO PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE PIPED
- 6. EROSION AND SEDIMENT CONTROL FEATURES MUST BE BASED ON THE DOT&PF ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE (FEBRUARY 2011 OR LATEST VERSION) AND LATEST BMPS.
- 7. AT A MINIMUM, PROVIDE INLET PROTECTION (I.E., FILTER BAGS PLACED UNDER THE INLET GRATE) AT ALL INLETS WITHIN AND IMMEDIATELY ADJACENT TO THE PROJECT LIMITS
- 8. PROVIDE VEHICLE CLEANING EQUIPMENT, OR OTHER APPROVED CONTROLS, TO PREVENT TRACKING DIRT AND GRAVEL ONTO PAVED SURFACES.
- 9. ENSURE LOADS ARE STABLE AND COVERED SO THAT NO MATERIAL ESCAPES DURING HAULING ACTIVITIES.
- 10. SWEEP STREET SURFACES ADJACENT TO THE WORK AREA DAILY TO COLLECT ANY SEDIMENT OR OTHER CONSTRUCTION DEBRIS TRACKED OFFSITE
- 11. DESIGNATE A CONCRETE WASHOUT AREA ONSITE, AS NECESSARY, TO CONTAIN THE WASHOUT WATER AND RESIDUALS DURING
- 12. HAVE A SPILL KIT AVAILABLE AT EACH WORK AREA WHEN HEAVY EQUIPMENT IS BEING UTILIZED.
- 13. RECLAIM STOCKPILE AND STAGING LOCATIONS TO THEIR ORIGINAL CONDITION. STOCKPILES AND/OR STAGING AREAS ARE NOT ALLOWED IN WETLANDS.
- 14. PERMANENTLY STABILIZE ALL DISTURBED GROUND.
- 15. WHEN CLEARING TO PLACE PERIMETER CONTROL BMPS, MINIMIZE DISTURBANCE ACTIVITIES TO PRESERVE EXISTING VEGETATION TO THE MAXIMUM EXTENT POSSIBLE. RESTORE DISTURBED VEGETATIVE BUFFER TO PRE-CONSTRUCTION CONDITIONS.
- 16. INSTALL PERIMETER CONTROL BMPS WHEN WORKING WITHIN 25 FEET OF SURFACE WATERS AND ALONG WETLANDS WHERE A 25-FOOT VEGETATIVE BUFFER IS NOT RETAINED.
- 17. ISOLATE ALL IN WATER WORK FROM FLOWING WATERS.
- 18. FOR BRIDGE REHABILITATION WORK PROVIDE CONTAINMENT APPARATUS THAT PREVENTS DUST, SEDIMENT, OR OTHER OBJECTS, FROM ENTERING THE CHENA RIVER OR PIPED STORM DRAIN SYSTEM. ENSURE THE FLOW FROM THE SCUPPER OUTFALLS IS FREE OF SEDIMENT OR OTHER CONTAMINANTS.



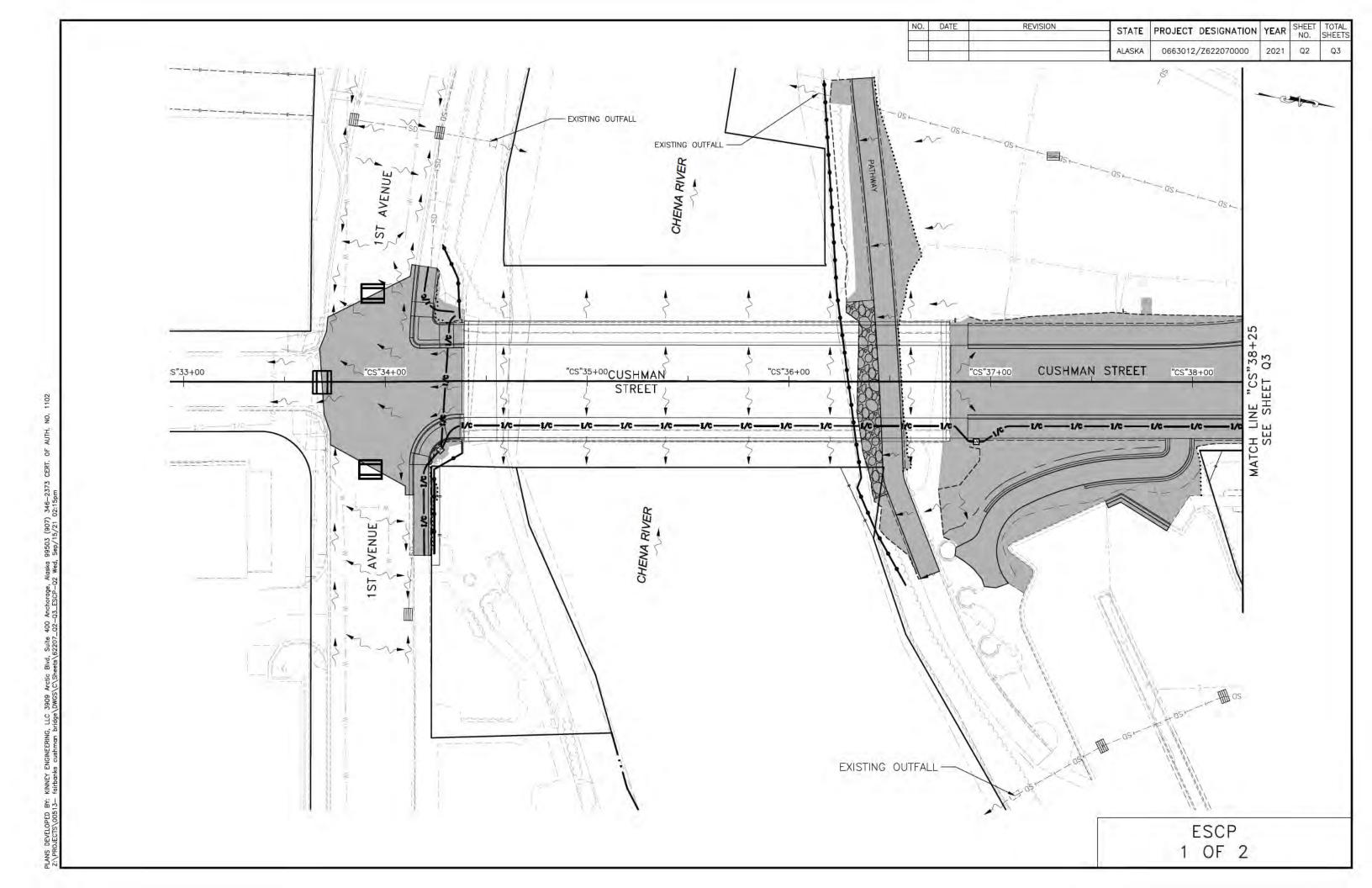
FLOW DIRECTION

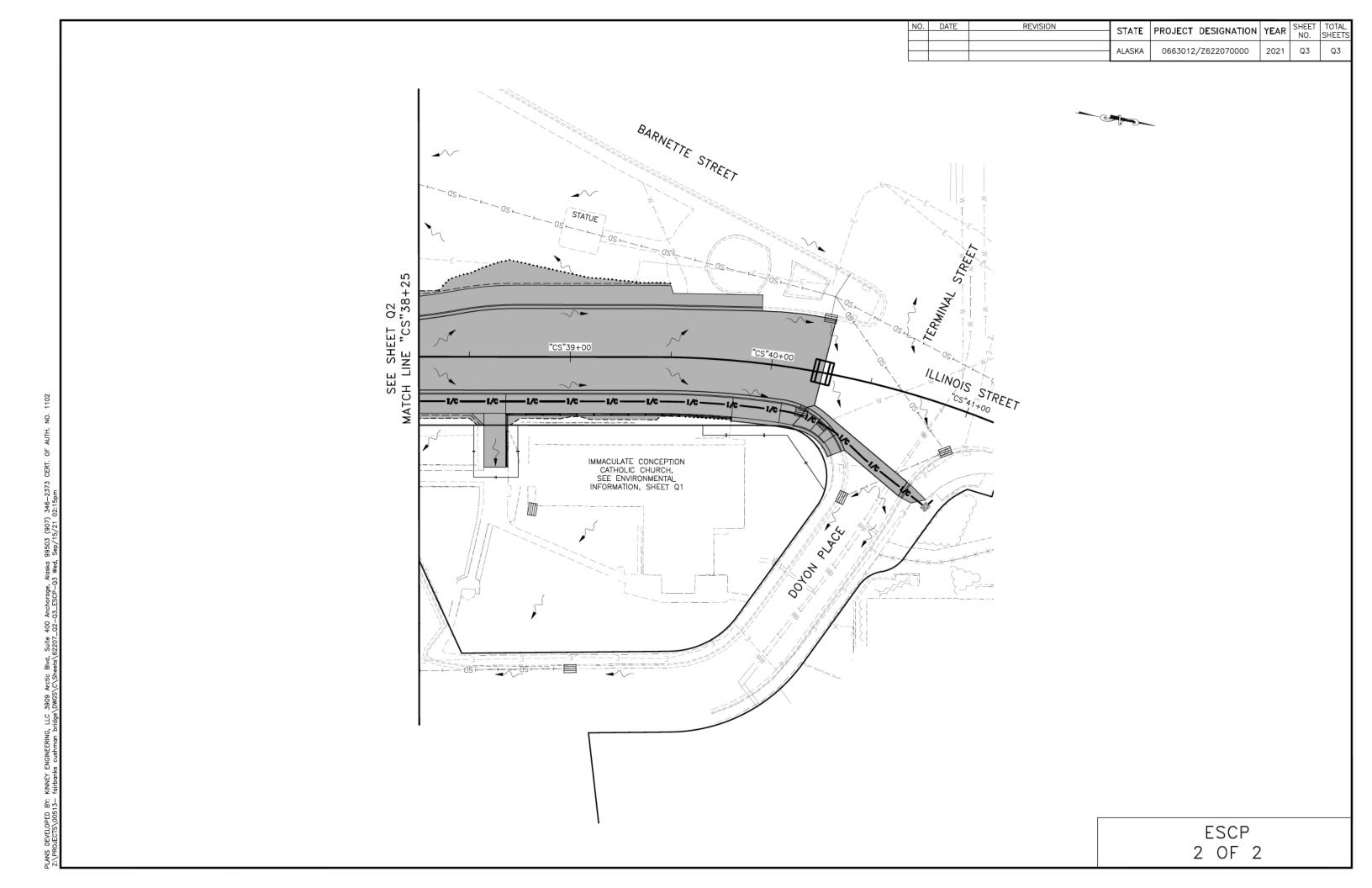
**ESCP LEGEND:** 

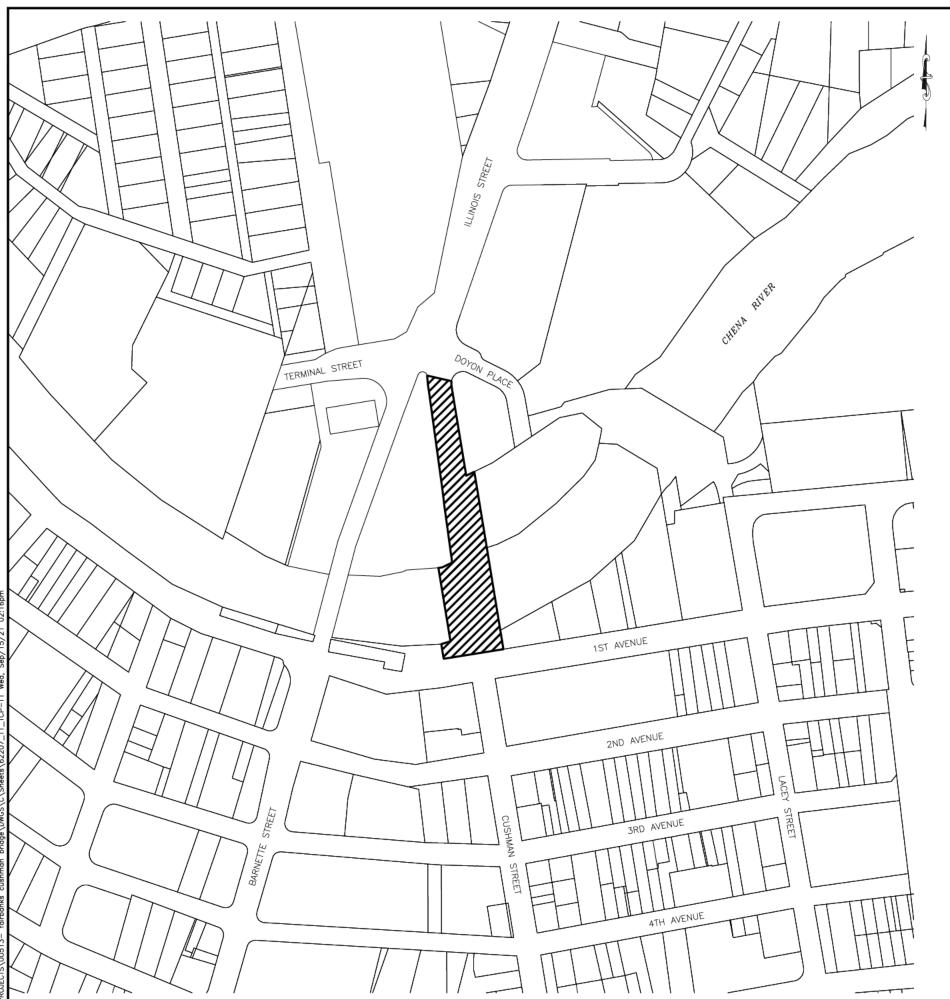
VEHICLE TRACKING ENTRANCE/EXIT



ESCP NOTES







NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	T1	Т3

### GENERAL TRAFFIC CONTROL PLAN NOTES

- THIS IS A GENERALIZED TRAFFIC CONTROL PLAN (TCP) TO SHOW ALLOWABLE LANE CLOSURES, ROAD CLOSURES, AND DETOUR ROUTES, AND LOCATIONS FOR PORTABLE CHANGEABLE MESSAGE BOARD SIGNS (CMS). DEVELOP AN APPROVED TCP AND AN APPROVED CONSTRUCTION PHASING PLAN IN ACCORDANCE WITH THIS PLAN AND SECTION 643 OF THE PROJECT SPECIFICATIONS.
- PROVIDE ACCESS TO COMMERCIAL PROPERTIES DURING THEIR BUSINESS HOURS. CONTACT ALL BUSINESSES IN THE PROJECT AREA TO COORDINATE AND ENSURE ACCESS.
- MAINTAIN ONE LANE OF TRAFFIC AND ONE ACCESSIBLE PEDESTRIAN ROUTE THROUGH THE PROJECT AREA AT ALL TIMES
- 4. DRIVEWAYS ADJACENT TO AN EXCAVATION SHALL BE RAMPED TO PROVIDE ACCESS.
- 5. TCPS WHICH REQUEST CLOSURE OF ANY RESIDENTIAL OR COMMERCIAL ACCESS SHALL BE SUBMITTED FOR APPROVAL IN ACCORDANCE WITH SECTION 643. ANY ACCESS CLOSURE SHALL NOT OCCUR WITHOUT WRITTEN APPROVAL OF THE ENGINEER. COORDINATE CLOSURE PLANS WITH THE AFFECTED PROPERTY OCCUPANT AND/OR OWNER. NOTIFY THE AFFECTED PROPERTY A MINIMUM OF 48 HOURS PRIOR TO IMPLEMENTATION OF AN APPROVED ACCESS CLOSURE.
- . PROVIDE ACCESS THROUGH THE PROJECT FOR EMERGENCY VEHICLES.
- 7. MAINTAIN ACCESS OF CROSS STREETS AS SHOWN.
  - MAINTAIN WATERCRAFT ACCESS ALONG THE CHENA RIVER IN BOTH DIRECTIONS AT ALL TIMES DURING CONSTRUCTION
- COORDINATE, THROUGH THE ENGINEER, WITH THE PROPER AUTHORITIES HAVING JURISDICTION TO ASSESS NEED OF PLACING ADVANCE WARNING SIGNAGE IN THE RIVER WAY.
- 10. PROVIDE PUBLIC NOTICE OF DETOURS AND CLOSURES IN ACCORDANCE WITH SECTION 643.
- 11. BEFORE BEGINNING WORK WITHIN THE PROJECT LIMITS, ERECT TRAFFIC CONTROL DEVICES REQUIRED BY THE APPROVED TCP.
- 12. PROVIDE TRAFFIC CONTROL DEVICES MEETING THE REQUIREMENTS OF SECTION 643.
- 13. EXISTING SIGNS WHICH CONFLICT WITH CONSTRUCTION SIGNS SHALL BE COVERED. COORDINATE REMOVAL WITH CITY OF FAIRBANKS PUBLIC WORKS.
- 14. CONSTRUCTION SIGNS MAY NOT BE PLACED ON PORTABLE SIGN SUPPORTS FOR MORE THAN THREE CONSECUTIVE CALENDAR DAYS. SIGNS REQUIRED LONGER THAN THIS PERIOD SHALL BE MOUNTED ON A PERMANENT SIGN POST WITH THE EXCEPTION OF PEDESTRIAN TRAFFIC CONTROL SIGNS AND SIGNS MOUNTED ON A TYPE III BARRICADE WHICH MAY BE INSTALLED ON PORTABLE SIGN SUPPORTS FOR THE DURATION OF THEIR INSTALLATION.
- 15. SPECIAL CONSTRUCTION SIGNS SHALL BE FABRICATED OF MATERIALS CONFORMING TO SECTION 615 OF THE SPECIFICATIONS AND SHALL HAVE A BLACK LEGEND ON ORANGE BACKGROUND.
- 16. ALL SIGNS SHALL BE SUPPLEMENTED WITH HIGH LEVEL WARNING DEVICES.
- 17. ALL BARRICADES SHALL HAVE ONE OPERABLE FLASHING LIGHT FOR EACH 10 FEET OF BARRICADE, WITH A MINIMUM OF TWO LIGHTS PER TYPE III BARRICADE EXCEPT IN A TAPER WHERE ONLY THE FIRST TWO LIGHTS SHALL FLASH (TYPE "A") AND THE REMAINDER SHALL BE STEADY BURN (TYPE "C").
- 18. TYPE A FLASHING WARNING LIGHTS SHALL BE USED TO MARK THE TYPE III BARRICADES, ROAD CLOSURES, AND ADVANCE DETOUR SIGNING AT NIGHT.
- 19. DEVICE SPACING (IN FEET) ON TAPERS AND TANGENTS SHALL BE ONE (1) X THE POSTED SPEED LIMIT (IN MPH).
- 20. TWO (2) PORTABLE CMS WILL BE SUBSIDIARY TO 643.0002.0000 TRAFFIC MAINTENANCE. ANY ADDITIONAL PORTABLE CMS WILL BE PAID FOR UNDER 643.0025.0000 AT THE TRAFFIC CONTROL RATE SCHEDULE.
- 21. TEMPORARY STRIPING SHALL BE EITHER TEMPORARY RAISED PAVEMENT MARKERS OR PREFORMED PAVEMENT MARKING TAPE.
- 22. ADDITIONAL ROAD CLOSURES, LANE REASSIGNMENT, AND DETOURS WILL BE PERMITTED IN ACCORDANCE WITH 643-3.02 AND THE NOTES ON THIS SHEET.

# TRAFFIC CONTROL PLAN LEGEND

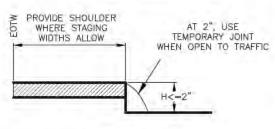


HALF-WIDTH CLOSURE

MAINTAIN A SINGLE NORTHBOUND LANE ROADWAY WITH BIKE/PED ACCESS AS SHOWN IN DETAIL ON SHEET T3.

TRAFFIC CONTROL PLAN
1 OF 3





# CASE A

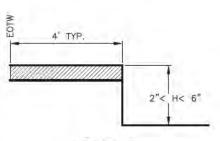
DROP-OFFS ≤2 INCHES (PAVED SURFACES ONLY)

- 1. USE "UNEVEN LANES" (CW8-11) SIGNS FOR ALL DROP-OFFS IN BETWEEN TRAFFIC LANES.
- LEAVE NO DROP-OFFS > 1.5" IN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK.

1102

NO.

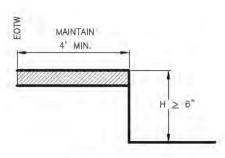
400 Ancharage, T2 TCP DETAILS



CASE B

2"< DROP-OFFS < 6" (ALL ROADWAY SURFACES)

- 1. PLACE CONES OR CANDLES FOR DROP-OFFS  $\geq$  4 FEET AND  $\leq$  30 FEET FROM THE EOTW.
- USE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS < 4 FEET FROM THE EOTW.</li>



# CASE C

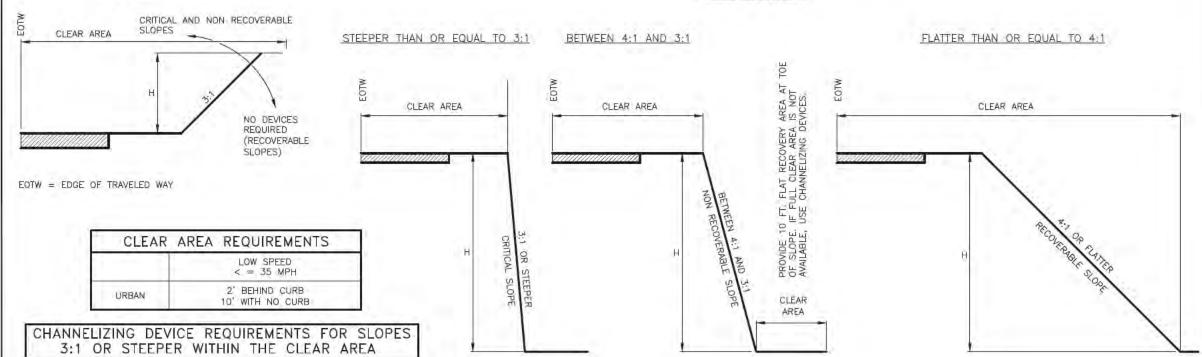
DROP-OFFS ≥6"
(ALL ROADWAY SURFACES AND ROADSIDE SLOPES)

- PLACE DRUMS OR TYPE II BARRICADES FOR DROP-OFFS ≤ 24" WITHIN THE CLEAR AREA.
- PROVIDE PORTABLE CONCRETE BARRIER FOR DROP-OFFS >24" WITHIN 15 FEET OF THE EOTW, USE DRUMS OR TYPE II BARRICADES IF BEYOND 15 FEET.

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

ALASKA 0663012/Z622070000 2021 T2 T3

# FILL SLOPES



## TRAFFIC CONTROL NOTES:

CUT SLOPES

- 1. USE THE EXISTING CROSS-SECTION (PRIOR TO CONSTRUCTION) AS A BASIS FOR DETERMINING WHEN CHANNELIZING DEVICES ARE NEEDED.
- 2. INSTALL CHANNELIZING DEVICES WHEN THE HORIZONTAL OR VERTICAL CURVATURE IS MADE MORE SEVERE.

H <= 15"

TYPE II BARRICADE OR DRUMS

- 3. INSTALL FLEXIBLE DELINEATORS WHEN ALL VEGETATION OVER 4 FEET HIGH IS CLEARED FROM FILL SLOPES THAT ARE 3:1 OR STEEPER IN THE CLEAR AREA.
- 4. USE PORTABLE CONCRETE BARRIER FOR WARRANTING CONDITIONS WHICH LAST LONGER THAN 3 DAYS. FOR CONDITIONS LASTING LESS THAN 3 DAYS, OTHER CHANNELIZING DEVICES MAY BE INSTALLED.

#### EQUIPMENT NOTES:

> 2000 VPD

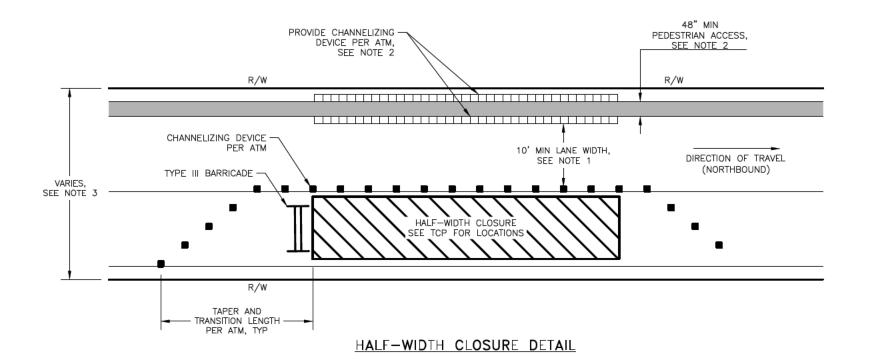
- 1. WHEN THERE IS ACTIVE, NONMOBILE CONSTRUCTION EQUIPMENT WITHIN THE CLEAR AREA, DELINEATE THE ROADSIDE WITH TRAFFIC CONES.
- 2. SEPARATE PROCEDURES ARE REQUIRED FOR MOBILE WORK ZONE OPERATIONS AND SHORT DURATION WORK OF LESS THAN 12 HOURS,

# WINTER SHUTDOWN NOTES:

- 1. WHEN REQUIRED, USE CHANNELIZING DEVICES WHICH CAN BE MAINTAINED OVER WINTER.
- 2. NO CHANNELIZING DEVICES ARE REQUIRED IF:
  - A) CONSTRUCTION SLOPES ARE RECOVERABLE, AND
  - B) SLOPES ARE SMOOTH AND COMPACTED, AND
  - C) REQUIRED CLEAR AREA IS PROVIDED

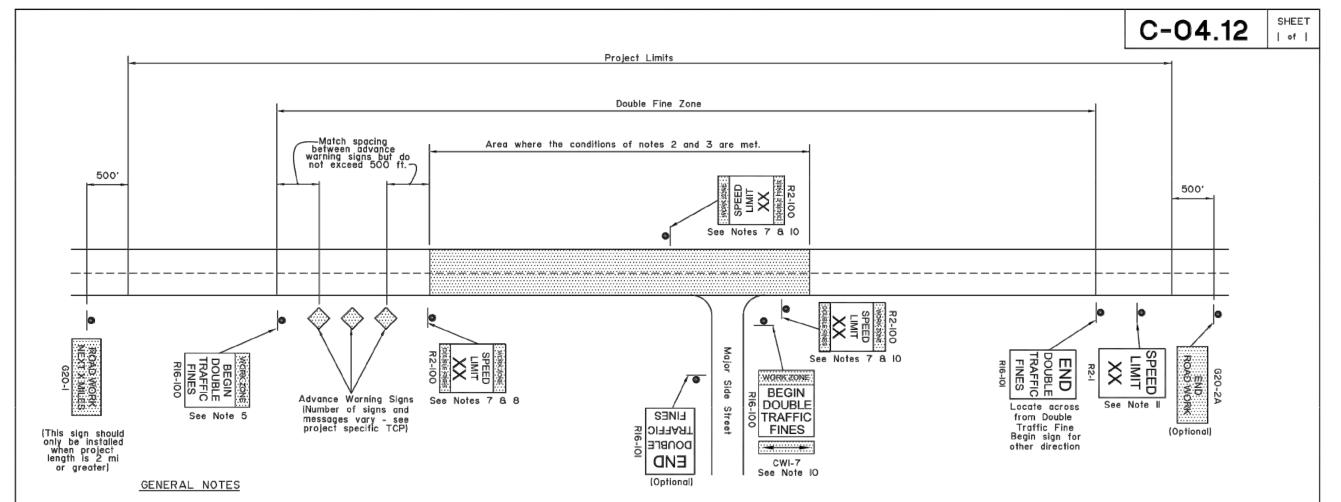


L	NO.	DATE	REVISION	STATE	PROJECT	DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
				ALASKA	0663012/	/Z622070000	2021	Т3	Т3



### HALF-WIDTH CLOSURE NOTES:

- PROVIDE MINIMUM 10' LANE WIDTH AS MEASURED FROM NEAR FACE OF CHANNELIZING DEVICE TO NEAR FACE OF CHANNELIZING DEVICE OR CURB FACE.
- 2. WHEN POSSIBLE, ROUTE PEDESTRIANS ON EXISTING OR NEWLY CONSTRUCTED SIDEWALK. OTHERWISE, DELINEATE TEMPORARY PEDESTRIAN ACCESS USING CHANNELIZING DEVICES PER MUTCD. TEMPORARY PEDESTRIAN ACCESS SHALL BE A MINIMUM 48" WIDTH AS MEASURED FROM NEAR FACE OF CHANNELIZING DEVICE TO NEAR FACE OF CHANNELIZING DEVICE WITH AN ADA—COMPLIANT SMOOTH SURFACE. PROVIDE ADA COMPLIANT WHEELCHAIR RAMPS AT LOCATIONS WHERE PEDESTRIANS ARE ROUTED FROM THE SIDEWALK INTO THE STREET.
- SEE F SHEETS FOR RIGHT-OF-WAY LIMITS. LOCATE TEMPORARY TRAFFIC CONTROL WITHIN LIMITS OF RIGHT-OF-WAY.



- Signs are shown for one direction only (with one exception). Signs for the other direction mirror those shown.
- 2. Double fine signs shall be used only where one or more of the following conditions exist:
  - a. Active work areas (where road workers and/or machines are presently working on or adjacent to a road)
  - Detours on new temporary roads built for that purpose (this does not include detours on existing streets)
  - Sections of paved roads where pavement has been removed.
  - Roads being paved where unmatched asphalt lifts result in a vertical lip between lanes.
- Double fine signs shall be confined to the areas where the above conditions exist, with the following exceptions:
  - a. If the project is 2 miles or shorter in length, the entire project may be posted for double fines when the above conditions exist on any part of the project.
  - b. When the above conditions exist at multiple locations separated by less than 2 miles, the locations and the intervening segments may be posted as a single double fine zone.

- Double fine signs shall be removed or covered when work activity ceases for more than two days and conditions b, c, or d of note 2 are not met.
- The RI6-IOO "BEGIN" sign may be used in place of the first advance warning sign. However, when this is done, the appropriate advance warning sign must be reinstalled when the double fine sign is taken down or covered.
- When a double fine zone is longer than 2 miles, work zone speed limit signs shall be posted at spacings not greater than 2 miles within the double fine zone.
- "Work zone speed limit signs", as used here, refer either to I) R2-IOO signs or 2) standard R2-I regulatory speed limit signs with CW20-IO2 "DOUBLE FINES" plates mounted below.
- The limit shown on work zone speed limit signs shall be either the existing limit before construction or, if a work zone speed limit order has been approved in accordance with ADOT&PF Procedure 05.05.020 PDR, a reduced limit.
- All existing regulatory speed limit signs within double fine zones shall either be replaced with R2-IOO signs or supplemented with CW20-IO2 plates.

- IO. Signs shall be installed at major intersections within the double fine zone to warn entering drivers of double fines. This may be done with a RI6-IOO sign with a CWI-7 arrow panel on the side street or with two work zone speed limit signs on the main street on either side of the intersection. Use of RI6-IOO signs on side streets eliminates the need for "Road Work Ahead" signs on those streets. If the speed limit has been reduced, the two work zone speed limit signs are mandatory.
- II. At the end of each double fine zone, install an R2-I sign showing the speed limit for the road beyond the double fine zone.

State of Alaska DOT&PF
ALASKA STANDARD PLAN

LOCATION OF
DOUBLE TRAFFIC
FINE SIGNS

Adopted as an Alaska
Standard Plan by:

Kennetty J. Fisher, P.E.
Chief Engineer

Adoption Date: 02/08/2019

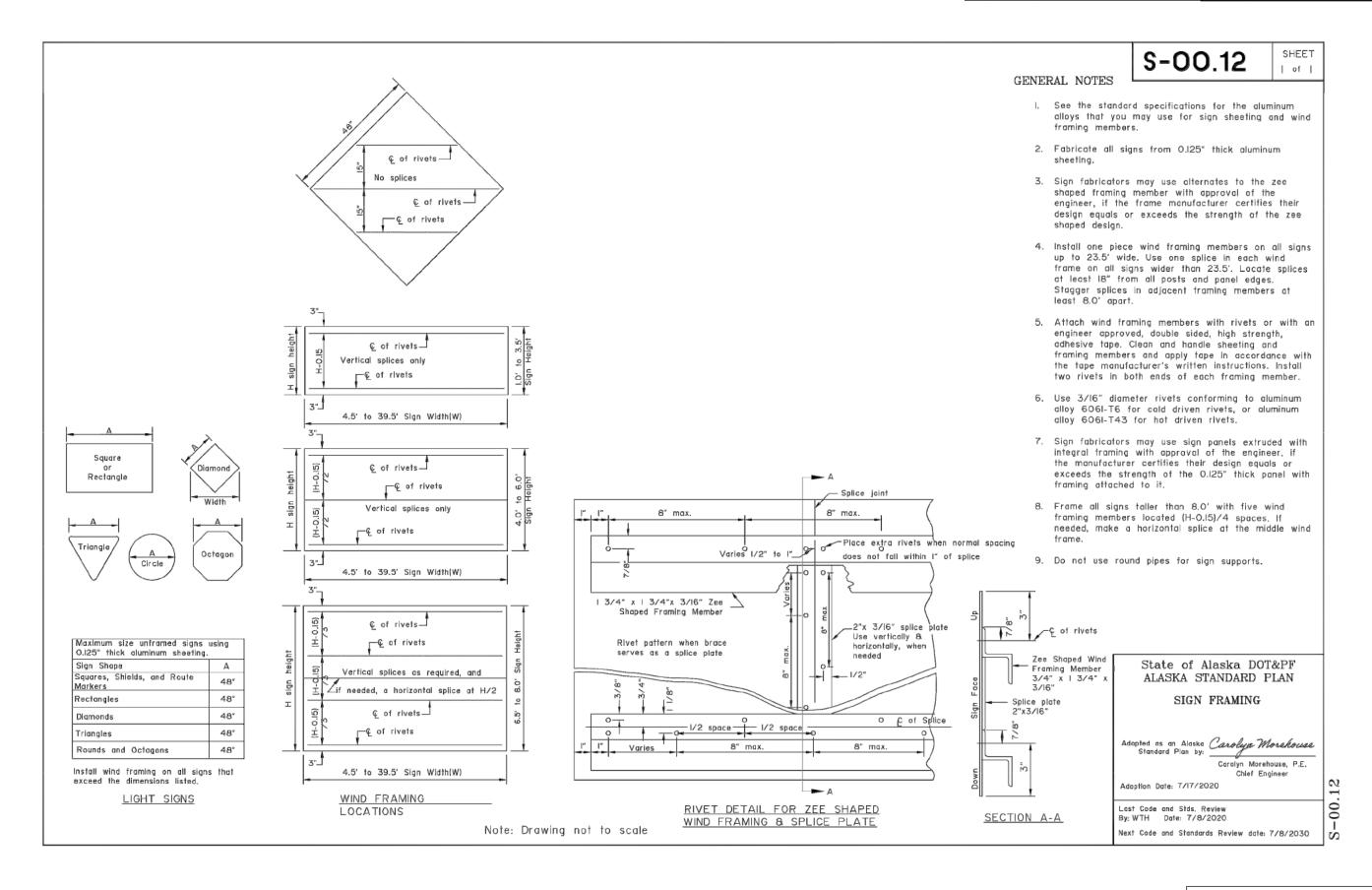
Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

D BY: KINNEY ENCINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF 513- fairbanks cushman bridge\DWGS\C\Sheeta\STANDARD DRAWINGS\62207\_c0412\_NR-C0412 Wed, Sep/15/21

7 AUTH. NO.

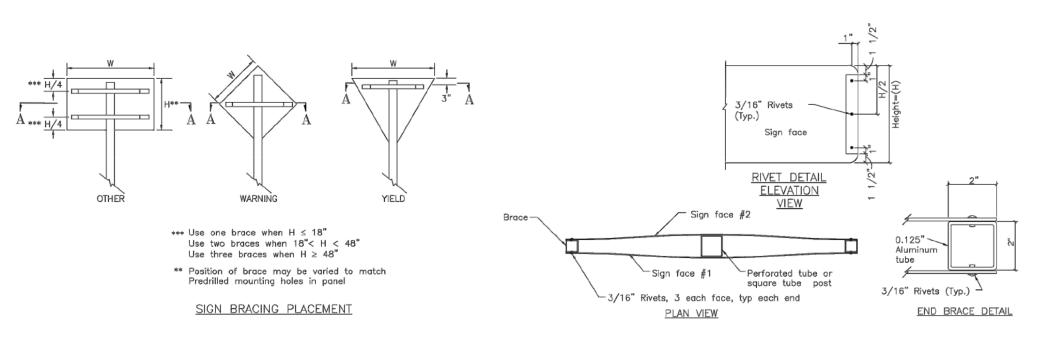
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	V2	V8



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	V3	V8

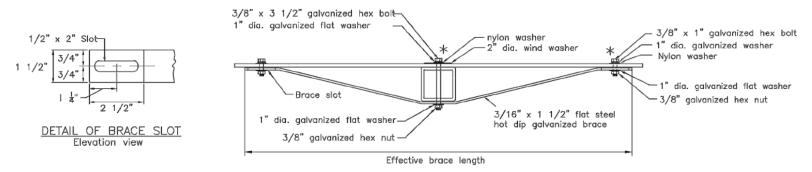
S-01.02

SHEET



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS

\* Adjust location of bracing so that bolts and washers will miss the sign legend



TUBE POST SIGN BRACING SECTION A—A
Plan view

,	Sign	Effective	Brace	Length
	Width(W)	Warning	Yield	Other
	30"	36"	24"	24"
	36"	42"	30"	30"
	42"	48"	_	36"
	48"	Two posts	36"	42"

< 30" No bracing required and use square tube

Note: Drawing not to scale

State of Alaska DOT&PF ALASKA STANDARD PLAN

BRACING FOR SIGNS MOUNTED ON SINGLE POST

Adopted as an Alaska
Standard Plan by:

Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review By: WTH Date: 7/8/2020

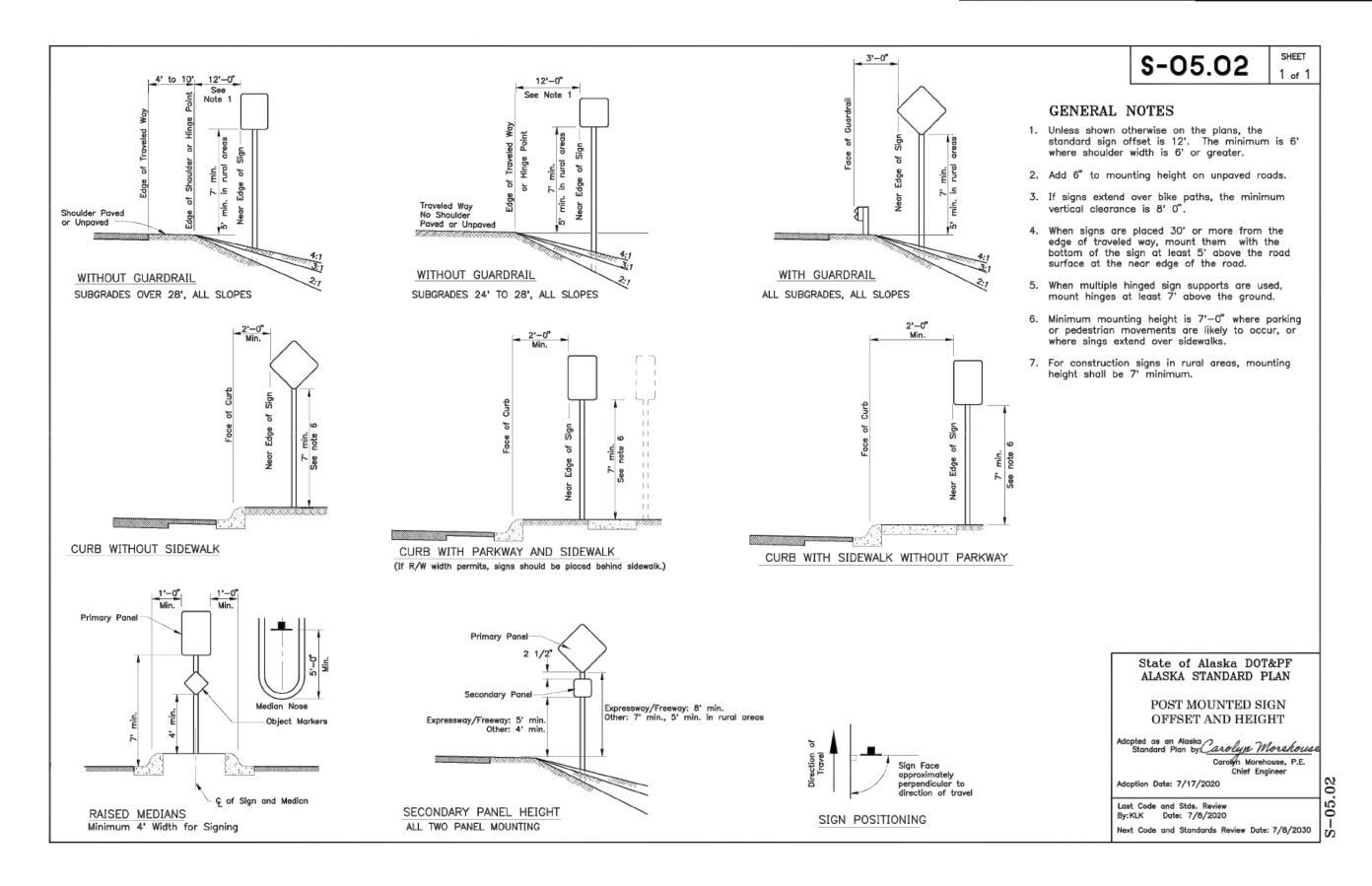
Next Code and Standards Review date: 7/8/2030

DEVELOPED BY: KINNEY ENGINEERING, LLC 3909 Arctic Blvd, Suite 400 Anchorage, Alaska 99503 (907) 346-2373 CERT. OF AUTH. NO. OJECTS\00513- fairbanks cushman bridge\DWGS\C\Sheets\STANDARD DRAWINGS\62207\_s0102\_NR-S0102 Wed, Sep/15/21 02:17pm

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	V4	V8



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	V5	V8

1/2" crown or 3/8" Dia. Bolt, Nut conform to slope 0 D and Flat Washers 0 0 4" max. 0 0  $\circ$ 0 立 0  $\circ$ 0 0 0  $\circ$ 0  $\circ$ 12" min. 9" min. 0 0 0 0 0 0  $\circ$ 0 0  $\circ$ 0 0 0 0 0 0 P.S.T. Stub -0 Steel tube stub 48" Embedment 0 0 0 0 0 Drilled hole in widest face, typ. 0 Cover end to prevent 6", typ. concrete from entering 0 steel tube 0 Top of foundation 0 or ground line.

S-30.05

SHEET

## GENERAL NOTES:

- Sign shall be placed symmetrically around posts and refer to Standard Plan S-00 for sign framing details.
- See plans for type of post, size and embedment type.
- To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
- 4. Concrete shall be class B.
- Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
- Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.

### SIGN POST SPACING NOTES:

- Install sign support in accordance with the table below, unless otherwise required by plans or specifications.
- Exceptions:

   Use one post for all E5-I gore signs, regardless of width.
   Use one 2.5" P.S.T. for all STOP signs, with or without street name signs.
- Supports placed within 7' of each other must be acceptable for that use. See tables below for the sizes of wood posts and P.S.T.s that may be used within 7'. See Manufacturer's documentation for breakaway couplings and tubes that may be used within 7'.
- See Standard Plan S-3I for frangible couplings, hinges, and foundations for tube and W-shape sign supports.

	WOOD SIGN POSTS								
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH						
4"x4"	NONE	4'-1"	2						
4"x6"	1 1/2"	5'-3"	2						
6"x6"	1 1/2"	4′-9"	ı						
6"x8"	3"	4'-9"	I						

Direction of Traffic

\* Embedment depth applies in both strong and weak soil.

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78847884,

Embedment

PERFORATED STEEL TUBES (P.S.T.) No. of P.S.T.s per-Embedment POST SIZE mitted within 7 ft path Depth | I/2" x | I/2" 4'-8" | 3/4" x | 3/4" 4'-6" 2" x 2" 4'-3" 2 1/4" x 2 1/4" 5'-0" 2 1/2" x 2 1/2" 4'-6"

12"

SLEEVE TYPE

CONCRETE FOUNDATION

# Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

	TUBE SIGN POST SPACING									
Sign Width (feet)	No. of Distance		Sign	Post Type				Notes		
	Posts	Between Posts	Overhang	P.S.T.	Wood	Steel Tube	W-Shape			
0.5 to 4.0	- 1	-	0.5W	X	Х	X		See Note 2		
4.5 to 10.0	2	0.6W	0.2W	Х	Х	X		See Note 3		
10.5 to 11.0	2	6	Varies	X	X	X		See Note 3		
II.5 to I3.0	2	8	Varies				Х			
13.5 to 20.0	2	0.6W	0.2W				X			
20.5 to 22.5	3	8	Varies				Х			
23.0 to 29.5	3	0.35W	0.I5W				Х			
30.0 to 31.5	4	8	Varies				Х			
32.0 to 40.0	4	0.25W	0.I25W				X			

SLEEVE TYPE\*

SOIL EMBEDMENT

TUBE SIGN POST SPACING

X Adopted as an Aldska Carolyz Morshouse
X Standard Plan by:
Carolya Marchause P.F.

Caralyn Morehouse, P.E. Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds, Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

State of Alaska DOT&PF

ALASKA STANDARD PLAN

LIGHT SIGN STRUCTURE POST EMBEDMENT

WOOD POSTS

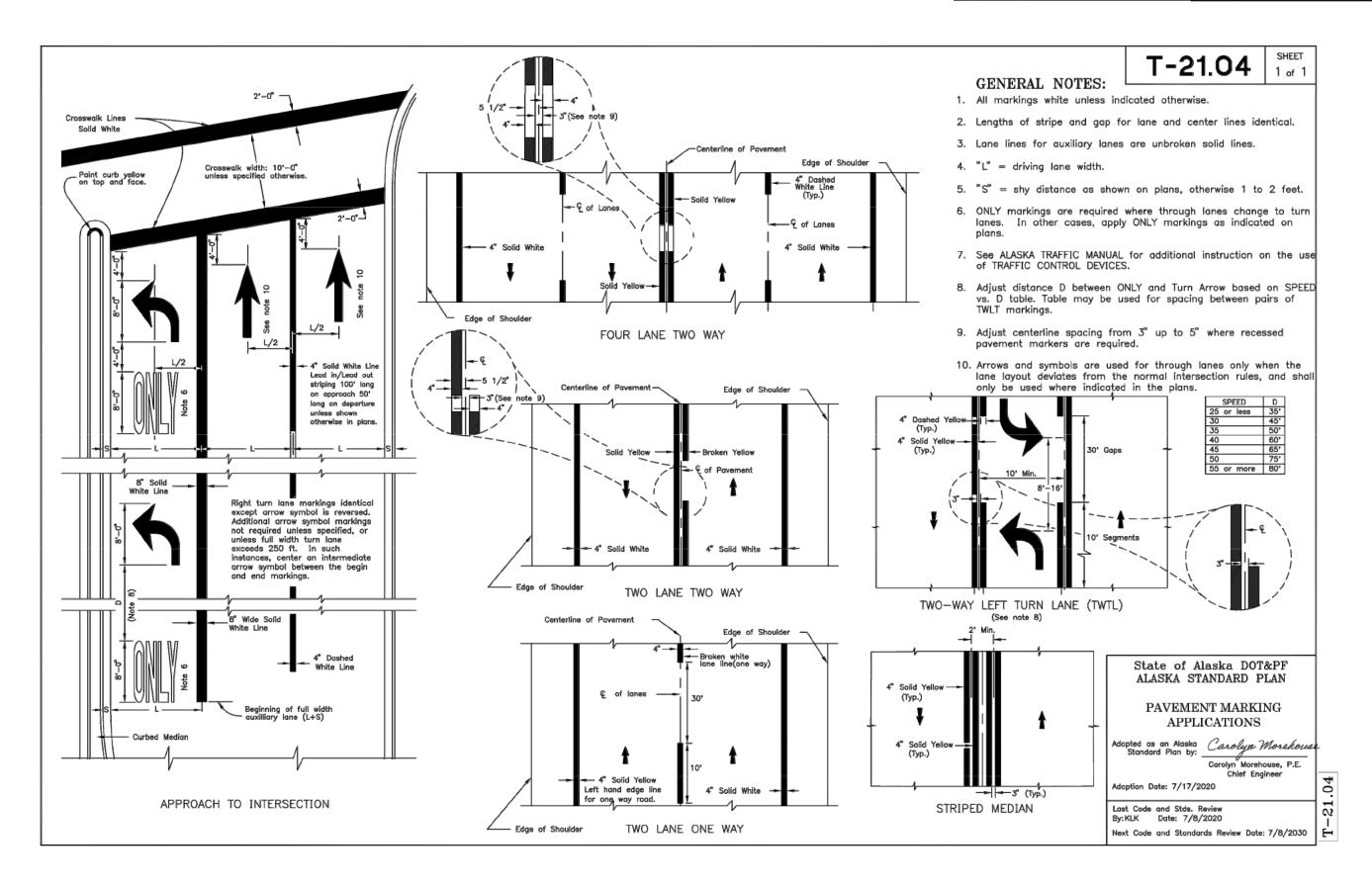
PERFORATED STEEL TUBE (PST) POSTS

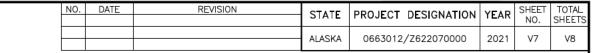
Note: Drawing not to scale

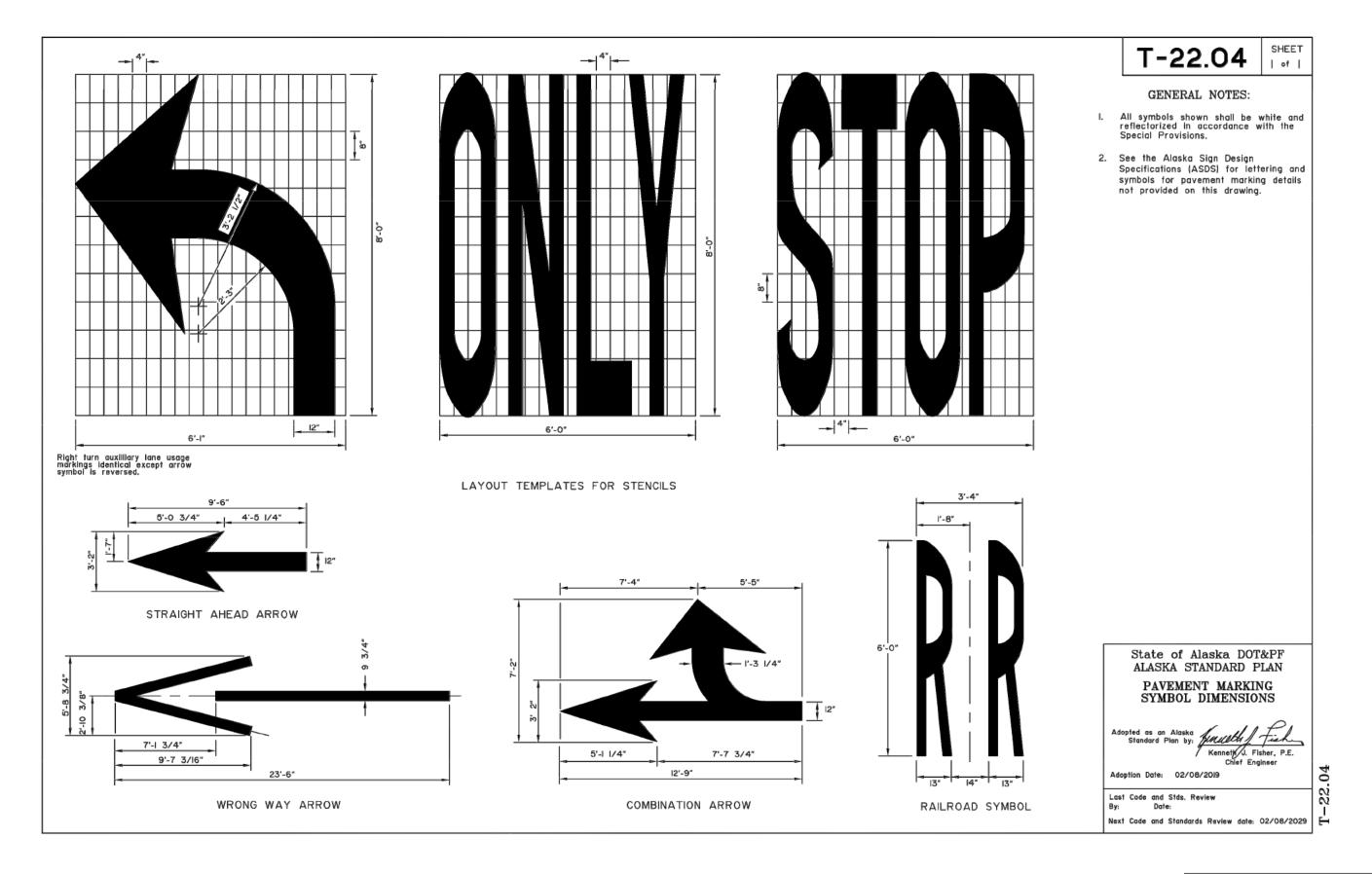
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	V6	V8







NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0663012/Z622070000	2021	V8	V8

T-23.01

SHEET

1 of 1

Face of Curb -24" White (typ.) extensions intersect face of curb at midpoint of radius.

GENERAL NOTES

- 1. The crosswalk locations shown assume a 90-degree intersection — adjust as necessary on skewed intersections to ensure that crosswalk landings (for parallel curb ramps) or ramp runs (for perpendicular curb ramps) fall within the inner edges of crosswalk stripes. If Case 3 (not recommended) is used, the layout should also be adjusted to provide at least the minimum clearance while maximizing the offset.
- 2. If only one crosswalk connects with a curb radius, it should be located as if there were two connecting crosswalks.
- 3. These details apply to parallel (shown) as well as perpendicular curb ramps.
- 4. Case 3, the layout for a single central curb ramp, should be used only when installing two ramps is not feasible. It should not be used for radii under 25 feet. See plans for ramp layout at particular locations.
- 5. Radius is measured to the face of curb.

CASE 1 Dual Curb Ramps Radius ≤ 25'

CASE 2 Dual Curb Ramps 25' < Radius ≤ 50'

Single Central Curb Ramp 25' ≦ Radius ≦ 50' (Not Recommended)

CASE 3

State of Alaska DOT&PF ALASKA STANDARD PLAN

CROSSWALK LOCATION AT SIGNALIZED INTERSECTIONS

Adopted as an Alaska Carolyn Morskouse Standard Plan by: Carolyn Morehouse, P.E.

Last Code and Stds. Review By: KLK Date: 7/8/2020

Adoption Date: 7/17/2020

Next Code and Standards Review Date: 7/8/2030

STANDARD PLAN T-23.01

23.01