

DESIGNED BY
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9/18/2025

DRAWING LOCATION
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STATE OF ALASKA

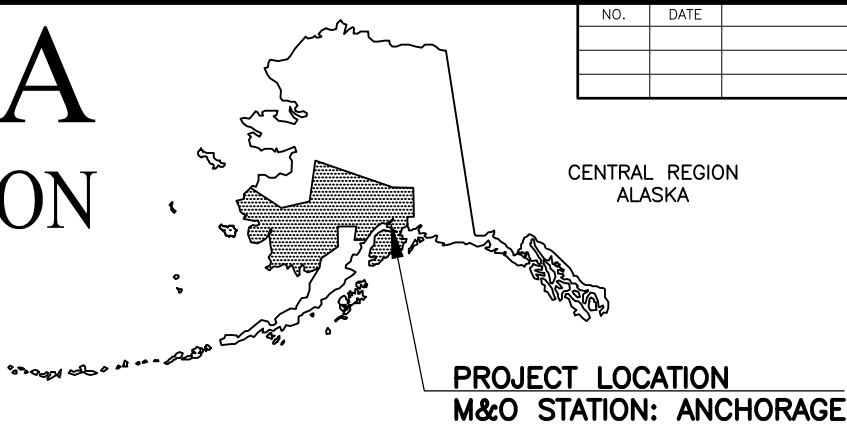
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

PROJECT NO. 0A16055/CFHWY00917

GRADING, DRAINAGE, PAVING, BRIDGE REHABILITATION,
PATHWAYS, ILLUMINATION, LANDSCAPING, SIGNING, AND
STRIPING



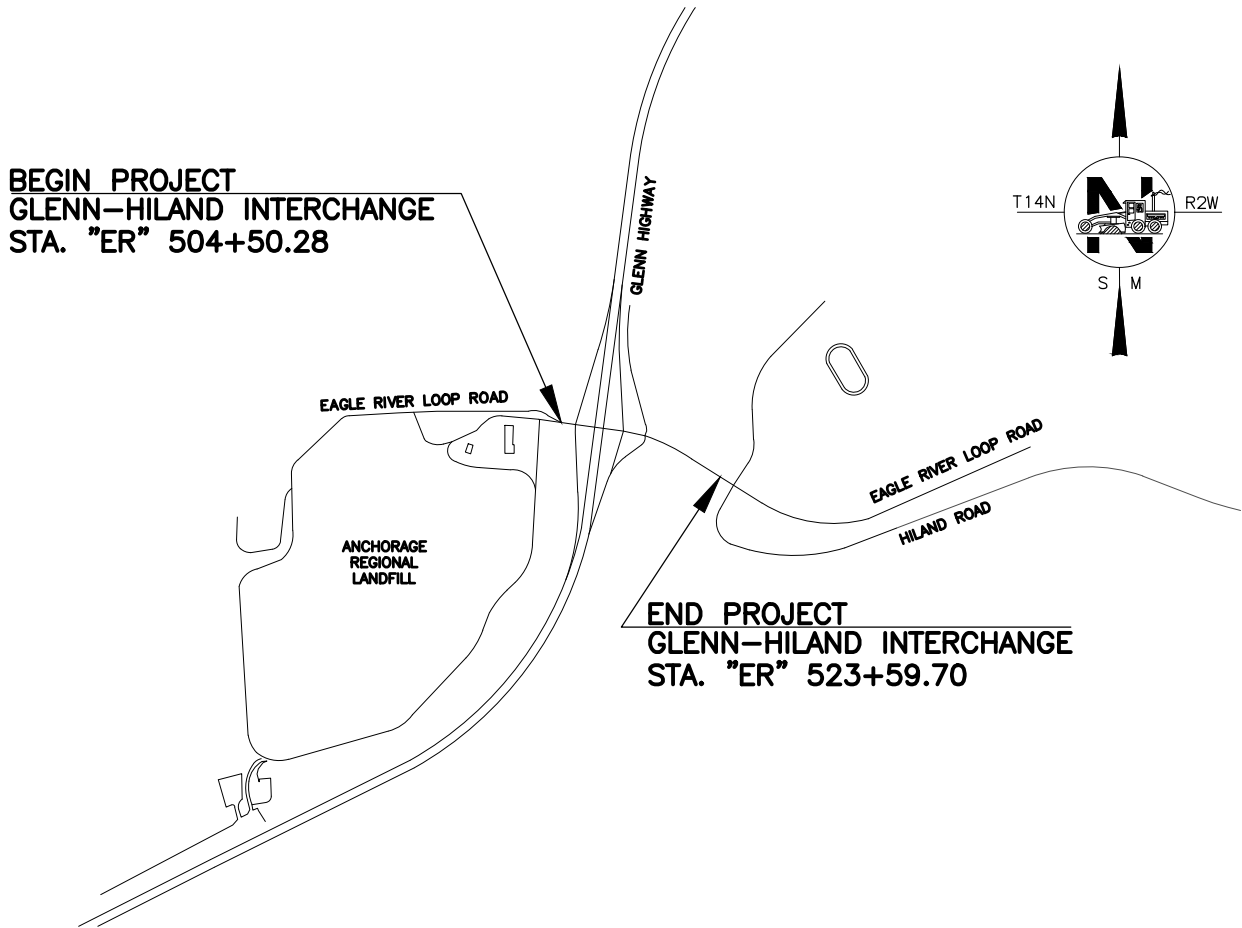
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	A1	A4
ROUTE ID		VARIES		MILEPOINT	VARIES		
LATITUDE		61.295547		LONGITUDE	-149.589642		

PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
GLENN HIGHWAY SB EXIT RAMP	16 FT	430 FT
GLENN HIGHWAY SB ENTRANCE RAMP	20-36 FT	3430 FT
GLENN HIGHWAY NB EXIT RAMP	34 FT	540 FT
GLENN HIGHWAY NB ENTRANCE RAMP	34 FT	850 FT
E EAGLE RIVER LOOP ROAD (SB RAMPS TO VIEW)	40 FT	550 FT
E EAGLE RIVER LOOP ROAD (VFW TO WOLF DEN DR)	30-34 FT	690 FT
VFW ROAD	30-36 FT	390 FT

BRIDGE DESIGNATION		
BRIDGE NUMBER	WIDTH	LENGTH
1327	55.4 FEET	208 FEET

DESIGN DESIGNATIONS				
	GLENN HIGHWAY			
	SB EXIT RAMP	SB ENT. RAMP	NB EXIT RAMP	NB ENT. RAMP
FUNCTIONAL CLASS	INTERSTATE	INTERSTATE	INTERSTATE	INTERSTATE
AADT (2023)	770	6,180	6,380	840
AADT (2050)	810	6,225	6,455	875
DESIGN SPEED (V) (MPH)	50	50	50	50
DHV (2023)	88	1,520	1,393	139
DHV (2050)	95	1,540	1,410	140
T-PERCENT COMMERCIAL TRUCKS (%)	5	3	4	4
D-DIRECTIONAL DISTRIBUTION (%)	100/0	100/0	100/0	100/0

DESIGN DESIGNATIONS			
	EAGLE RIVER LOOP ROAD		
	SB RAMP TO VFW	VFW TO WOLF DEN DR	VFW ROAD
FUNCTIONAL CLASS	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL	URBAN MINOR COLLECTOR
AADT (2023)	7,985	13,440	1,100
AADT (2050)	8,080	13,590	1,270
DESIGN SPEED (V) (MPH)	45	45	40
DHV (2023)	1,593	2,045	154
DHV (2050)	1,615	2,075	165
T-PERCENT COMMERCIAL TRUCKS (%)	3	2	5
D-DIRECTIONAL DISTRIBUTION (%)	95/5	85/15	50/50



PIH REVIEW
SEPTEMBER 2025

PLANS DEVELOPED BY: DOWL, LLC

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

APPROVED:

REGIONAL PRECONSTRUCTION ENGINEER	DATE
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CONCUR:

REGIONAL CONSTRUCTION ENGINEER	DATE
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	A2	A4

ABBREVIATIONS:

@	AT	LB	POUNDS
&	AND	LF	LINEAR FEET
ADT	AVERAGE DAILY TRAFFIC	LT, (L)	LEFT
AFB	ACTUATED FLASHING BEACON	L.V.C.	LENGTH OF VERTICAL CURVE
APPROX	APPROXIMATE	MAX	MAXIMUM
ARL	ANCHORAGE REGIONAL LANDFILL	MB	MAILBOX
ASP	ALASKA STANDARD PLAN	MH1	STORM DRAIN MANHOLE, TYPE 1
BM	BENCH MARK	MH2	STORM DRAIN MANHOLE, TYPE 2
BOP	BEGINNING OF PROJECT	MIN	MINIMUM
A.V.C.E.	BEGIN VERTICAL CURVE ELEVATION	MISC	MISCELLANEOUS
A.V.C.S.	BEGIN VERTICAL CURVE STATION	ML	MANHOLE LID
CAP	CONCRETE ASPHALT PIPE	MTE	MATCH TO EXISTING
CB	CATCH BASIN	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CC	CENTER TO CENTER	N	NORTH, NORTHING
C&G	CURB AND GUTTER	NO., #	NUMBER
CL	CENTERLINE	NTS, N.T.S.	NOT TO SCALE
CMP	CORRUGATED METAL PIPE	O.C./OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS, CONTINUATION	PED	PEDESTRIAN
CPP	CORRUGATED POLYETHYLENE PIPE, TYPE S	P.I.	POINT OF INTERSECTION
CTE	CONNECT TO EXISTING	PC, POC	POINT OF CURVATURE
CY	CUBIC YARD	PCC	POINT OF COMPOUND CURVE
DET	DETAIL	PT, POT	POINT OF TANGENCY
DHV	DESIGN HOURLY VOLUME	PRC	POINT OF REVERSE CURVE
DI	DUCTILE IRON	PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER	PVMT	PAVEMENT
DOT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	R, RAD	RADIUS
DT	DETECTABLE WARNING TILE	RD	ROAD
E	EAST, EASTING	REQD	REQUIRED
EG	EXISTING GRADE	ROW, R/W	RIGHT-OF-WAY
EL, ELEV.	ELEVATION	RT, (RT)	RIGHT
EOP	END OF PROJECT	S	SOUTH
EP/EOP	EDGE OF PAVEMENT	SH	SHEET
EOTW	EDGE OF TRAVELED WAY	SHLD	SHOULDER
ESCP	EROSION SEDIMENT CONTROL PLAN	SPECS	SPECIFICATIONS
FG	FINAL GRADE	STA.	STATION
FI	FIELD INLET	STD	STANDARD
FL	FLOW LINE (ELEV)	TBC	TOP BACK CURB
FT, '	FOOT, FEET	TBDC	TOP BACK DEPRESSED CURB
FTG	FOOTING	TCE	TEMPORARY CONSTRUCTION EASEMENT
GAL	GALLONS	TCP	TEMPORARY CONSTRUCTION PERMIT
GB	GRADE BREAK	TP	TOP OF PAVEMENT
HMA	HOT MIX ASPHALT	TW	TOP OF WALL
H	HORIZONTAL	TYP	TYPICAL
HDPE	HIGH-DENSITY POLYETHYLENE	VB	VALVE BOX
IN, "	INCH, INCHES	VBS	VEGETATED BUFFER STRIP
INV	INVERT	V.C.	VERTICAL CURVE
J, JB	JUNCTION BOX	VG	VALLEY GUTTER
JT	JOINT	V.P.I.	VERTICAL POINT OF INTERSECTION
		W	WEST

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY, TEMPORARY CONSTRUCTION EASEMENTS, AND TEMPORARY CONSTRUCTION PERMITS. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- THE RIGHT-OF-WAY LINES SHOWN WERE CREATED FOR THIS PROJECT BY DOT&PF AND ARE BASED ON RECORDED DOCUMENTS AND/OR PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS. THE RIGHT-OF-WAY LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
- CLEARING LIMITS SHALL BE 5 FEET BEYOND SLOPE CATCH POINTS OR 5 FEET INSIDE THE RIGHT-OF-WAY LINE, WHICHEVER IS LESS. IN WETLAND AREAS, DO NOT CLEAR BEYOND THE SLOPE STAKE CATCH POINT UNLESS OTHERWISE SHOWN ON THE PLANS.
- PLACE 4 INCHES TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
- THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
- ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

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

THERE SHALL BE NO PAYMENT FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.

- CONSTRUCT CURB RAMPS TO AVOID IMPACTING SIGNAL POLE FOUNDATIONS. DO NOT COVER SIGNAL POLE FOUNDATION BOLTS AND BASE PLATES WITH TOPSOIL.
- ALL TYPE "A" INLET BOXES SHALL HAVE MINIMUM 18 INCHES SUMPS.
- PLACE CURB AND GUTTER PRIOR TO FINAL LIFT OF ASPHALT

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND
A4	SHEET LAYOUT
B1-B10	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1-D7	SUMMARY TABLES
E1-E13	DETAIL SHEETS
F1-F20	PLAN AND PROFILE SHEETS
G1-G28	GRADING PLANS
H1-H3	NOTES & DETAILS
HS1-HS18	SIGNING AND STRIPING PLAN
HL1	ILLUMINATION NOTES, LEGEND, AND SHEET LAYOUT
HL2-HL14	ILLUMINATION DETAILS
HL15-HL24	ILLUMINATION PLAN
N1-N11	BRIDGE STRUCTURES

THE FOLLOWING CENTRAL REGION STANDARD DETAILS APPLY TO THIS PROJECT:

CR-T-01.20

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

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C-03.30, C-04.12, C-05.20, C-06.00
D-01.02, D-06.10, D-07.00, D-08.00, D-09.00, D-20.05, D-23.01, D-24.00, D-26.04, D-35.10
E-09.00
G-00.05, G-05.11S, G-05.11W, G-10.21, G-11.01, G-14.01, G-20.12
G-27.00, G-29.01, G-32.04, G-47.00
I-20.20, I-21.12, I-22.11
L-03.12, L-23.03, L-24.10, L-25.01, L-30.12
M-13.01, M-20.15, M-23.13
S-00.12, S-01.02, S-20.11, S-23.00, S-30.05, S-31.02, S-32.02, S-52.01
T-05.10, T-06.00, T-20.04, T-21.04, T-22.04, T-23.01, T-30.12
T-31.01, T-35.00

SPECIFICATION:

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



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

**INDEX, ABBREVIATIONS, AND
GENERAL NOTES**

ROADWAY		
	EXISTING	PROPOSED
EDGE OF PAVEMENT		
LIMIT OF CUT SLOPE & FILL SLOPE		
GRAVEL EDGE		
SIDEWALK AND PATH/TRAIL		
CONCRETE CURB & GUTTER		
CONCRETE CURB CUT		
PARALLEL CURB RAMP		
PERPENDICULAR CURB RAMP		
UNIDIRECTIONAL CURB RAMP & MID-BLOCK CURB RAMP		
DETECTABLE WARNING TILE		
BRIDGE		
TUNNEL		
GUARDRAIL		
END & PARALLEL END SECTIONS		
ROADWAY OBLITERATION		
FENCE		
STONE FENCE		
NOISE BARRIER		
RETAINING WALL		
HEADWALL & WINGWALL		
BOTTOM OF DITCH		
SPECIAL DITCH		
FLAT BOTTOM DITCH		
BERM		
RIPRAP OUTLET PROTECTION/DITCH		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		
ASPHALT PAVEMENT		
ASPHALT PATHWAY		
CONCRETE PATHWAY		
GRAVEL PAVEMENT		

UTILITIES		
	EXISTING	PROPOSED
STORM DRAIN		
STORM DRAIN MANHOLE, CLEANOUT		
CURB INLET CATCH BASIN		
FIELD INLET CATCH BASIN		
PIPE CULVERT WITH END SECTION		
SANITARY SEWER		
SANITARY SEWER MANHOLE, CLEANOUT		
SEPTIC VENT, SEWER SERVICE CONNECTION		
WATER		
FIRE HYDRANT, VALVE OR RISER		
WELL, WATER SERVICE CONNECTION		
NATURAL GAS		
OIL OR GASOLINE PIPELINE		
TANKS (ABOVE GROUND, UNDERGROUND)		
ELECTRIC		
UTILITY POLE, POLE WITH LUMINAIRE		
GUY POLE, GUY WIRE ANCHOR		
TRANSMISSION TOWER (WOOD, STEEL)		
ELECTRIC PEDESTAL, TRANSFORMER		
ELECTRIC MANHOLE, METER		
ELECTRIC OUTLET, LANDSCAPE LIGHT		
TELEPHONE		
TELEPHONE MANHOLE, PEDESTAL		
FIBER OPTIC		
FIBER OPTIC MANHOLE		
CABLE TV		
CABLE TV PEDESTAL, SATELLITE DISH		
UNDERGROUND DUCT, UTILIDOR (ELECTRIC, TELEPHONE, FIBER OPTIC)		
VENT		

TRAFFIC		
	EXISTING	PROPOSED
LOAD CENTER		
STATE TRAFFIC, MOA TRAFFIC, & BEACON CONTROLLER		
ARROW INDICATES DOOR LOCATION		
TYPE 1A, II, III, IV JUNCTION BOX		
FIBER OPTIC VAULT		
ELECTROLIER		
HIGHTOWER		
SIGNAL POLE WITH MASTARM		
PEDESTRIAN PUSH BUTTON & SIGNAL		
VEHICULAR SIGNAL		
VEHICULAR SIGNAL LEFT & RIGHT		
OPTICAL, CAMERA, RADAR, AND GPS DETECTOR		
LOOP DETECTOR		
COMMUNICATION ANTENNA		
MASTARM BEACON		
RURAL & SCHOOL ZONE BEACON		
LOOP DETECTOR CONDUIT		
SIGNAL CONDUIT		
LIGHTING CONDUIT		
SIGNAL & LIGHTING CONDUIT		
CONDUIT BORING		
CONDUIT SIZE IN INCHES		
INTERCONNECT		
SIGN POST		
PAVEMENT MARKINGS		
PROPOSED		
TRAFFIC PROJECT CENTERLINE		
8" & 4" WHITE SOLID STRIPE		
4" WHITE SKIP STRIPE		
10' STRIPES AND 30' SPACES		
8" WHITE LANE GUIDE SKIP		
LANE CONTINUATION OR TURN SKIP		
1' STRIPES AND 3' SPACES		
8" & 4" YELLOW SOLID STRIPE		
4" YELLOW SKIP STRIPE		
10' STRIPES AND 30' SPACES		
STRIPING CHANGE STATION INTERVAL		
2' STOPBAR		
2' CROSSWALK LAYOUT		
TYPICAL PAINTED MEDIAN		

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

PIH REVIEW
SEPT 2025

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

LEGEND

DESIGNED BY
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SCALE
1"=150'

DATE
9/18/2025

TIME
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DRAWING LOCATION
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	A4	A4

B.O.P.
"ER" STA. 504+50.28
MATCH EXISTING
N 369196.1288
E 399632.6389

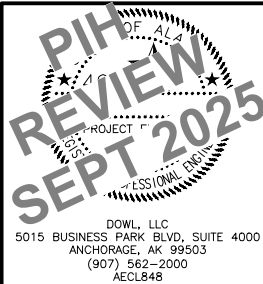
E.O.P.
"NE" STA. 810+26.79
MATCH EXISTING
N 370067.7284
E 400445.4664

E.O.P.
"ERW" STA. 728+38.09=
"ER" STA. 523+59.70
MATCH EXISTING
N 368669.2708
E 401416.7924

B.O.P.
"NX" STA. 604+53.29
MATCH EXISTING
N 368436.4611
E 400281.2382

B.O.P.
"GSF" STA. 983+84.50
MATCH EXISTING
N 365983.7415
E 398747.5601

ROADWAY ALIGNMENT DESIGNATIONS	
ABBREVIATION	STREET NAME
"ER"	EAST EAGLE RIVER LOOP ROAD-CENTERLINE
"ERW"	EAST EAGLE RIVER LOOP ROAD-WB LANES CENTERLINE
"ERES"	EAST EAGLE RIVER LOOP ROAD-EASTBOUND
"GSF"	GLENN HIGHWAY-SOUTHBOUND
"SX"	SOUTHBOUND EXIT RAMP-CENTERLINE
"SXR"	SOUTHBOUND EXIT RAMP-RIGHT
"SXL"	SOUTHBOUND EXIT RAMP-LEFT
"NE"	NORTHBOUND ENTRANCE RAMP-CENTERLINE
"NER"	NORTHBOUND ENTRANCE RAMP-RIGHT
"NX"	NORTHBOUND EXIT RAMP-CENTERLINE
"NXR"	NORTHBOUND EXIT RAMP-RIGHT
"NXL"	NORTHBOUND EXIT RAMP-LEFT
"V"	VFW ROAD-CENTERLINE
"VSS"	VFW ROAD-SOUTHBOUND
"VNS"	VFW ROAD-NORTHBOUND
"R1"	ROUNDBOUT #1
"R2"	ROUNDBOUT #2
"R3"	ROUNDBOUT #3
"D01"	PAVED APPROACH
"ERE"	EAGLE RIVER LOOP ROAD EASTBOUND
"SCR"	R1 EASTBOUND



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AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

SHEET LAYOUT

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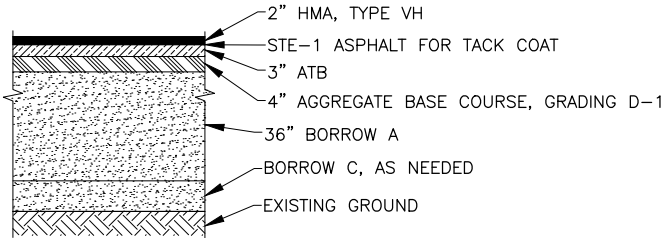
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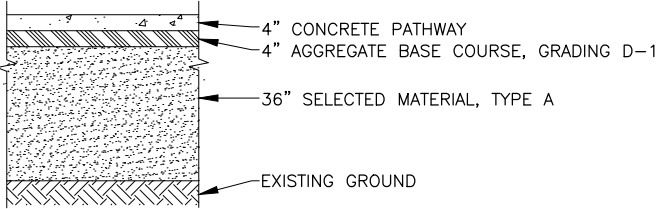
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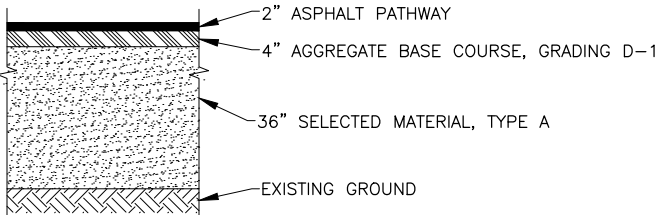
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			ALASKA	0A16055/CFHWY00917	2026	B1	B10



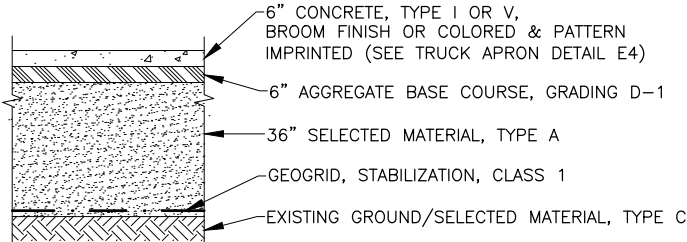
PAVEMENT STRUCTURAL SECTION NO. 1



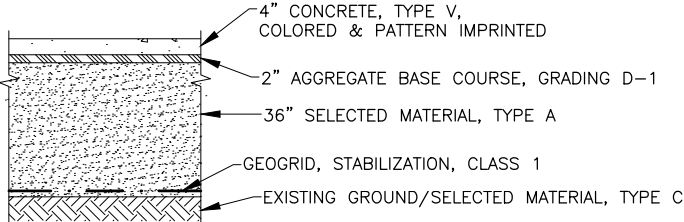
SIDEWALK STRUCTURAL SECTION NO. 1



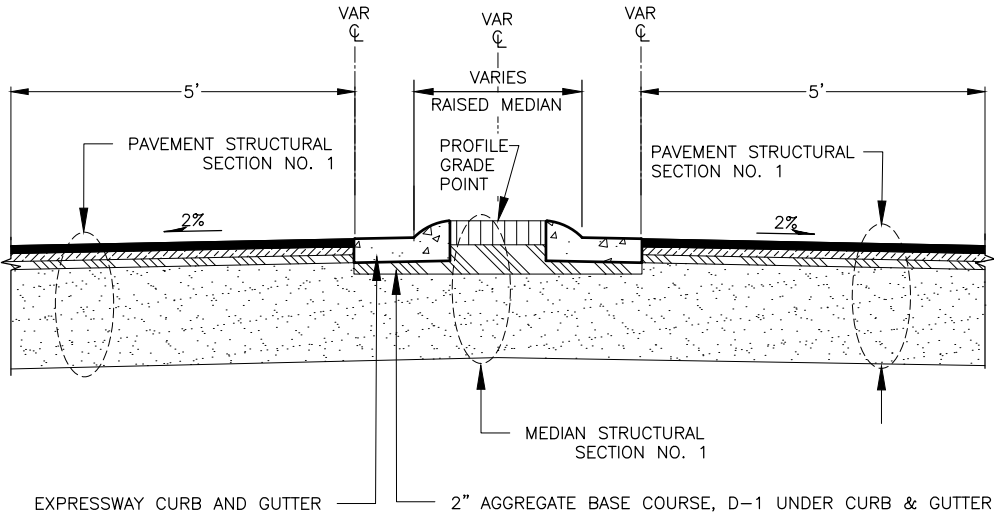
PATHWAY STRUCTURAL SECTION NO. 1



TRUCK APRON STRUCTURAL SECTION NO. 1



MEDIAN STRUCTURAL SECTION NO. 1



RAISED MEDIAN DETAIL

TYPICAL SECTION NOTES:

- WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE TO ENSURE THERE IS NO VERTICAL DROP AT THE EDGE OF PAVEMENT.
- GEOTEXTILE SHALL BE USED WHERE SEPARATION IS NEEDED BETWEEN SILTY SOIL AND ROADWAY SECTION AS DIRECTED BY THE ENGINEER.
- SEE "F" AND "G" SHEETS FOR INTERSECTION, MEDIAN OPENING, LANE DIRECTION CHANGE, CIRCULATORY ROADWAY, CURB RETURNS, BEGINNING AND ENDING STATIONS, AND OFFSETS.
- PAVEMENT FINISHED GRADE SHALL BE 1/4" ABOVE THE GUTTER PAN.
- UNLESS OTHERWISE NOTED, EXPRESSWAY GUTTER PAN SHALL MATCH THE ROADWAY CROSS SLOPES. MOUNTABLE DEPRESSED, ROLLED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPERELEVATED AREAS. USE A 25-FOOT TRANSITION LENGTH, FROM POINT OF ZERO CROSS SLOPE TO INSIDE OF THE HORIZONTAL CURVE.
- TRANSITION LONGITUDINALLY AT 10H:1V BETWEEN PAVEMENT STRUCTURAL SECTIONS 1, 2, AND 3.
- CUT AND FILL LINES SHOWN IN THE F-SHEETS ARE ACCURATE TO WITHIN 2 FEET. WARP SLOPES TO STAY WITHIN RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER.
- PATHWAY CROSS SLOPE SHALL TRANSITION OVER A 20' MINIMUM LONGITUDINAL DISTANCE WHEN ALTERNATING BETWEEN TYPICAL SECTIONS WITH OPPOSITE CROSS SLOPE DIRECTIONS, ROTATE THE PATHWAY AROUND ITS INNER EDGE.
- FOR ALIGNMENT LOCATION AT SPLITTER ISLANDS AND TRUCK APRONS, SEE G SHEETS G3-G5.
- SIDE SLOPES ARE SHOWN AS HORIZONTAL TO VERTICAL.

PIH
REVIEW
SEPT 2025

PROJECT
00917

PROFESSIONAL SEAL

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
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TYPICAL SECTIONS

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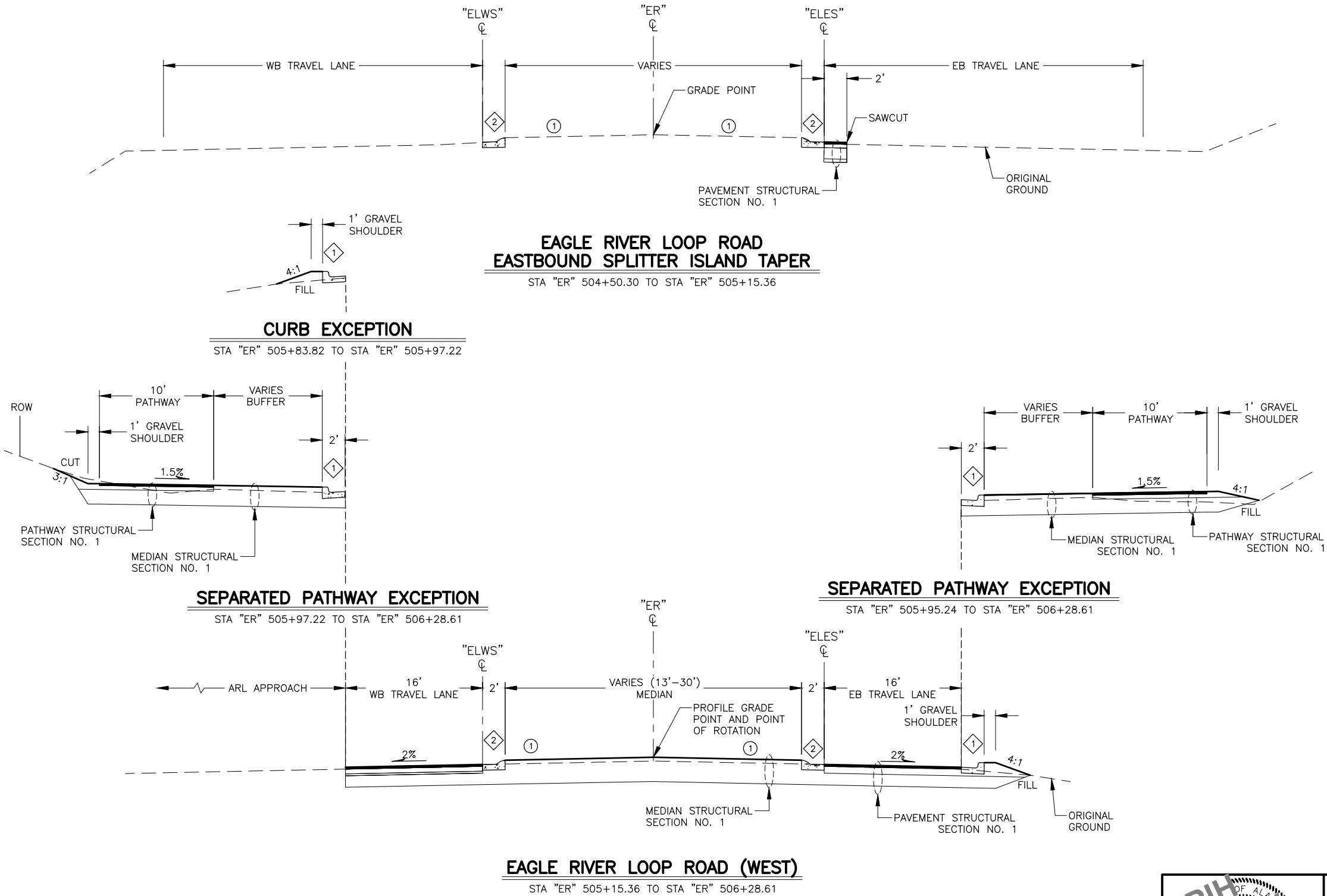
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DATE
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DRAWING LOCATION
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①	CROSS-SLOPE VARIES, SEE GRADING PLAN
◇1	6" MOUNTABLE CURB AND GUTTER
◇2	EXPRESSWAY CURB AND GUTTER
◇3	LOW PROFILE CURB AND GUTTER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

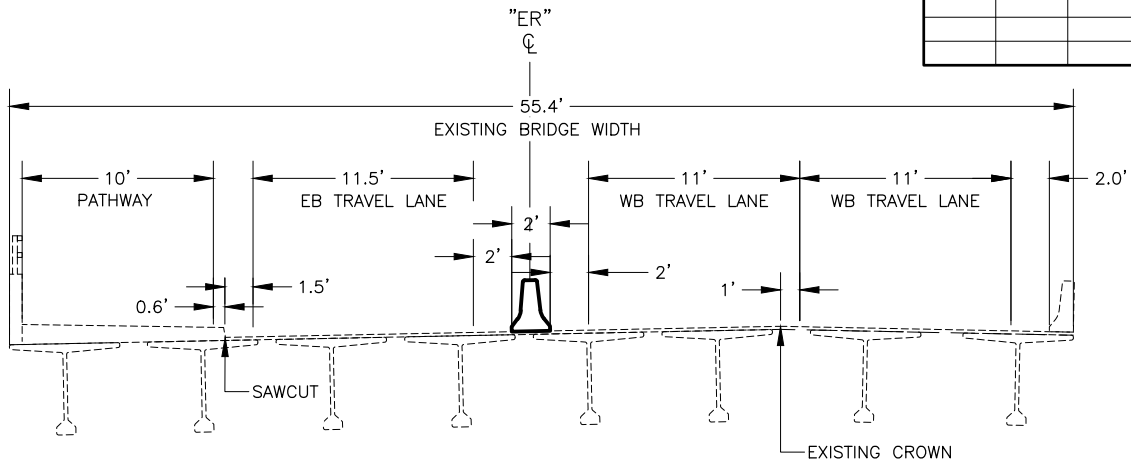
**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

TYPICAL SECTIONS

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AS SHOWN
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DATE
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①	CROSS-SLOPE VARIES, SEE GRADING PLAN
①	6" MOUNTABLE CURB AND GUTTER
②	EXPRESSWAY CURB AND GUTTER
③	LOW PROFILE CURB AND GUTTER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	B3	B10

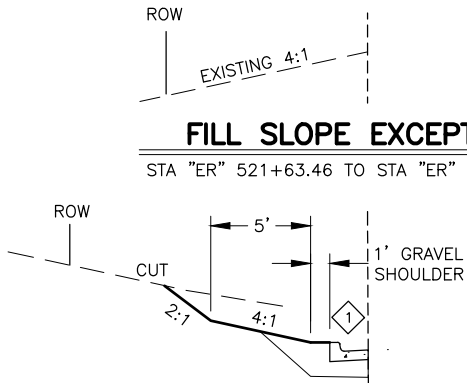


**PROPOSED BRIDGE SECTION
EAGLE RIVER LOOP ROAD (BRIDGE)**

STA "ER" 509+76.15 TO STA "ER" 511+84.15

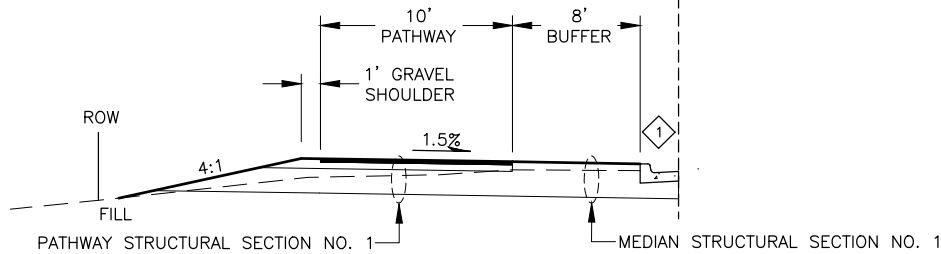
FILL SLOPE EXCEPTION

STA "ER" 521+63.46 TO STA "ER" 523+38.09



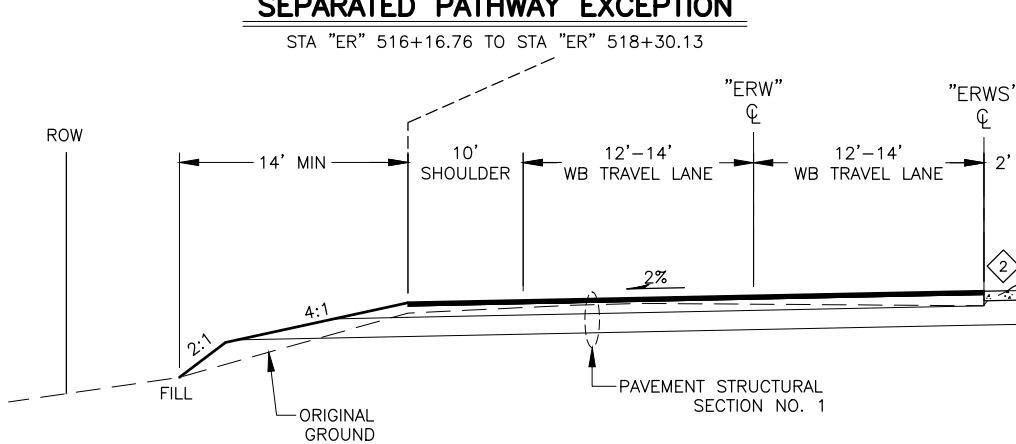
CURB AND GUTTER EXCEPTION

STA "ER" 516+16.76 TO STA "ER" 518+30.13



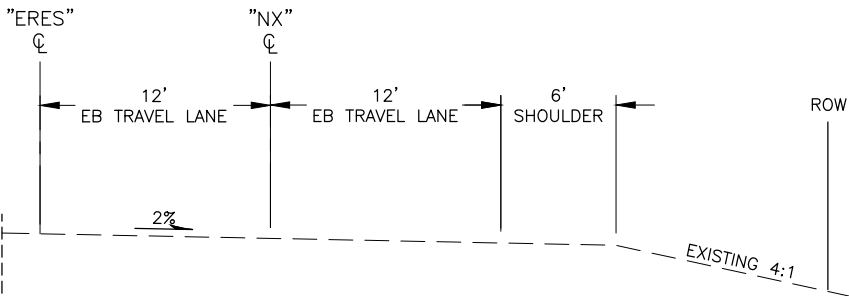
SEPARATED PATHWAY EXCEPTION

STA "ER" 516+16.76 TO STA "ER" 518+30.13



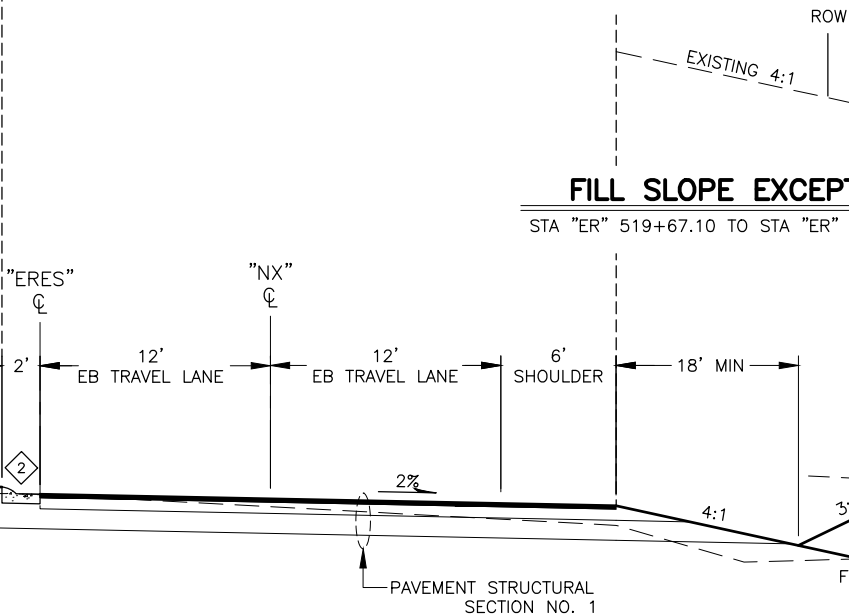
EAGLE RIVER LOOP ROAD (EAST)

STA "ER" 516+16.76 TO STA "ER" 523+38.09



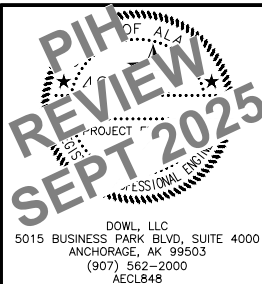
EASTBOUND IMPROVEMENTS EXCEPTION

STA "ER" 520+61.56 TO STA "ER" 523+38.09



FILL SLOPE EXCEPTION

STA "ER" 519+67.10 TO STA "ER" 520+61.56



STATE OF ALASKA
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**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

TYPICAL SECTIONS

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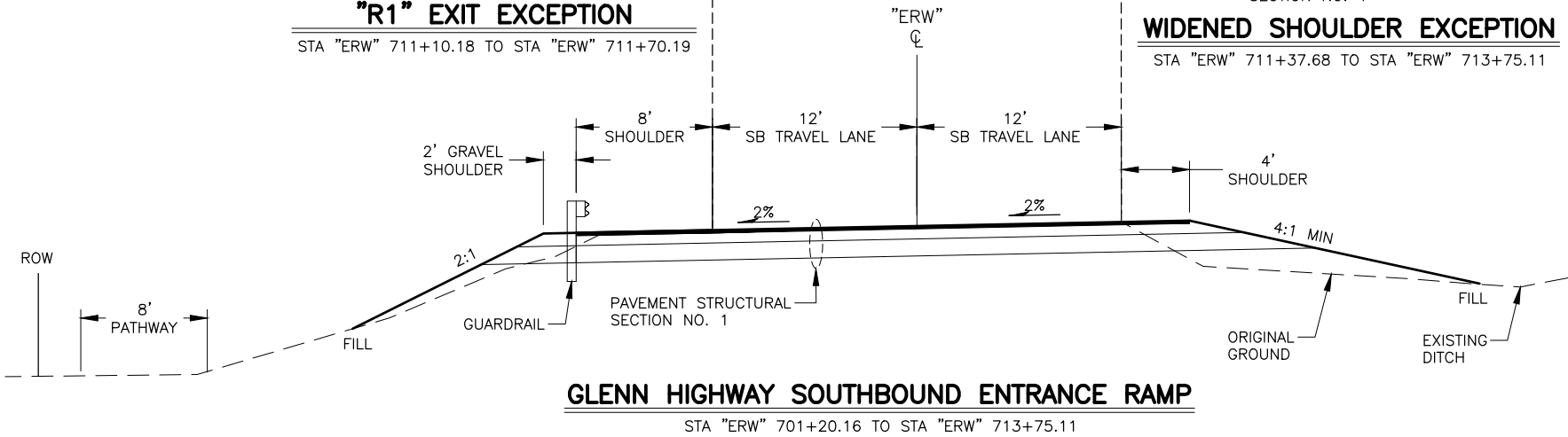
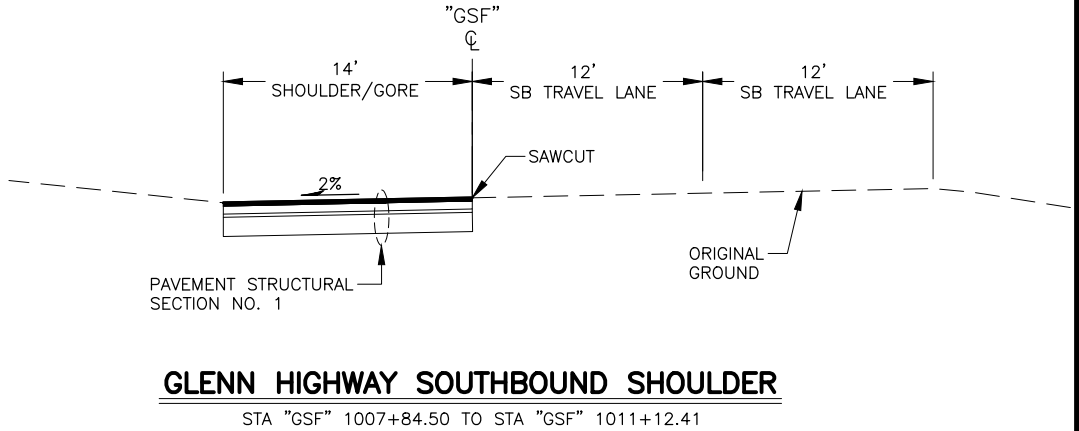
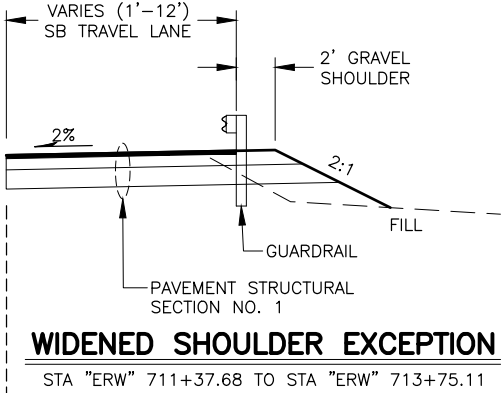
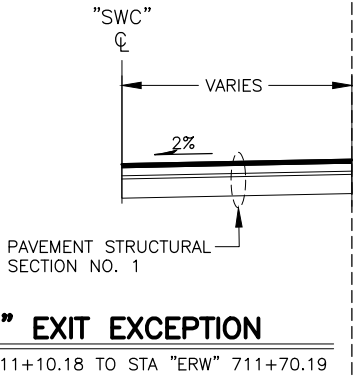
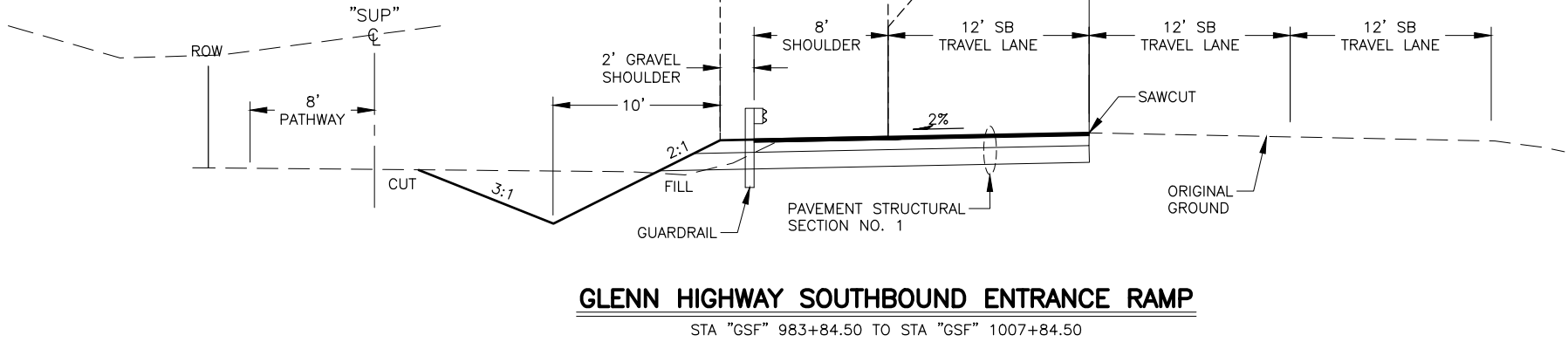
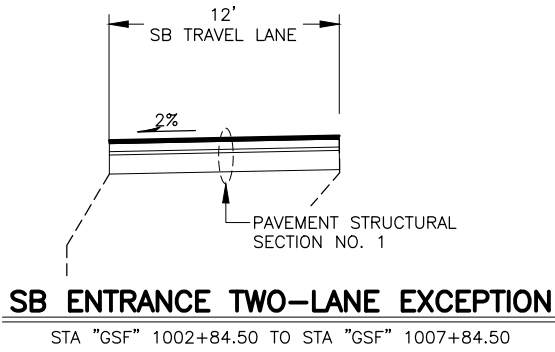
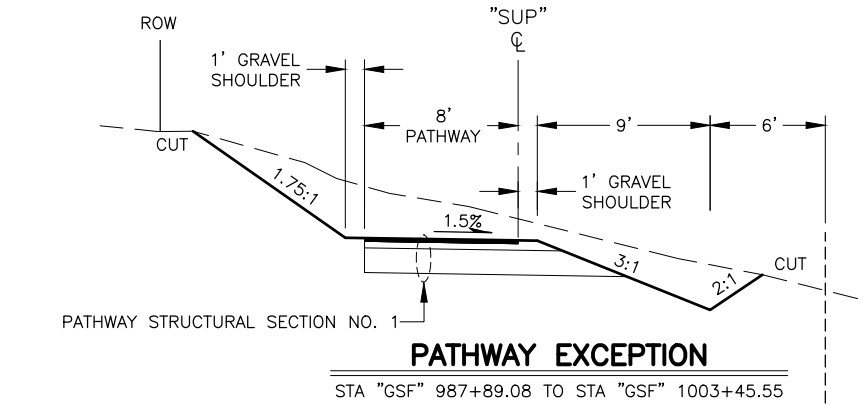
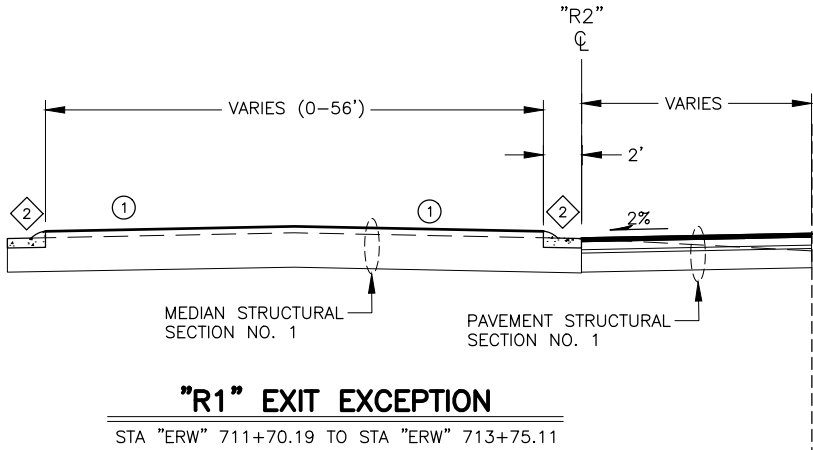
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①	CROSS-SLOPE VARIES, SEE GRADING PLAN
①	6" MOUNTABLE CURB AND GUTTER
②	EXPRESSWAY CURB AND GUTTER
③	LOW PROFILE CURB AND GUTTER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	B4	B10



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

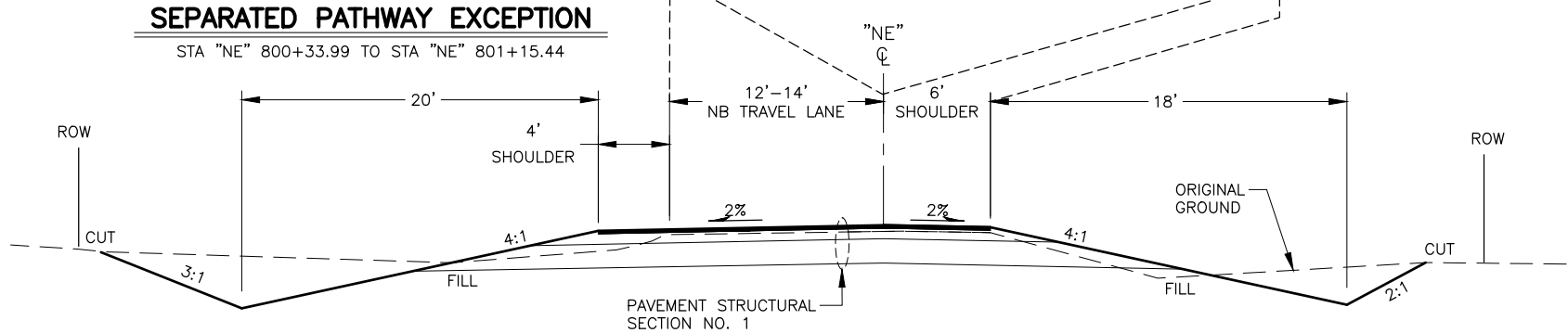
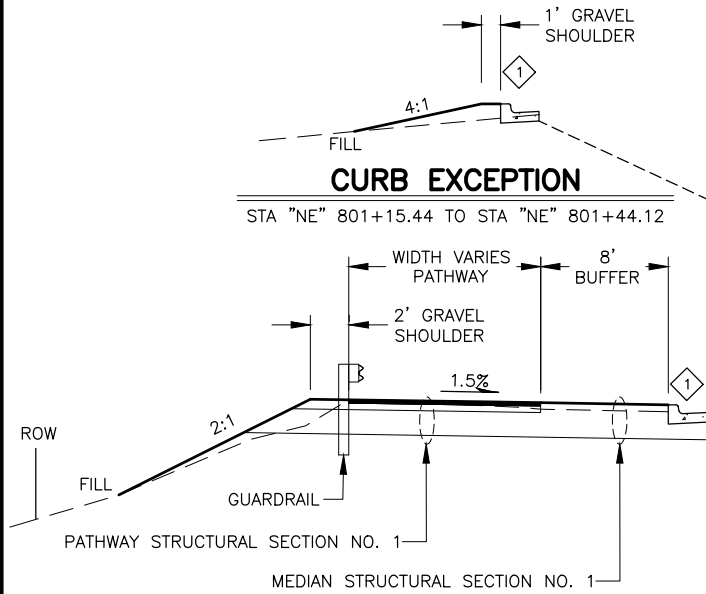
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

TYPICAL SECTIONS

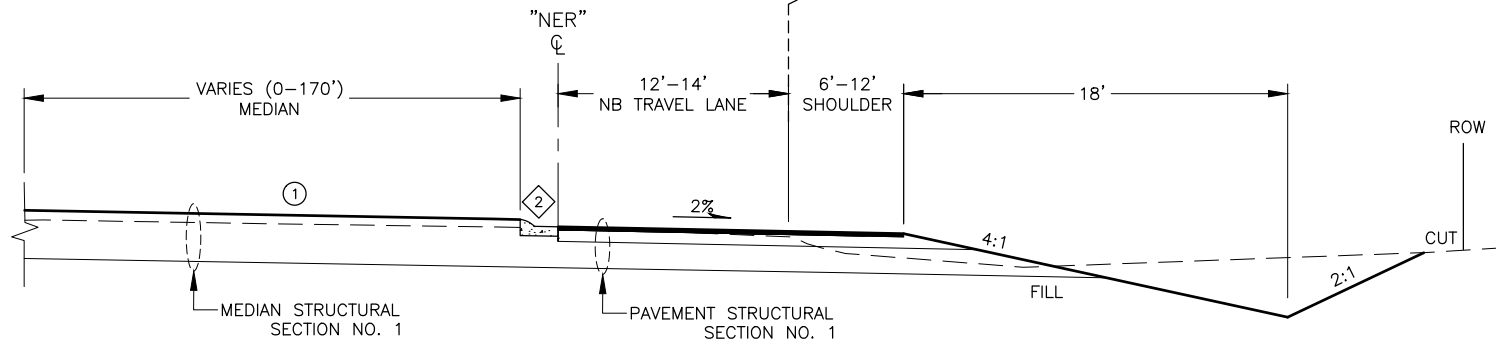
①	CROSS-SLOPE VARIES, SEE GRADING PLAN
①	6" MOUNTABLE CURB AND GUTTER
②	EXPRESSWAY CURB AND GUTTER
③	LOW PROFILE CURB AND GUTTER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	B6	B10

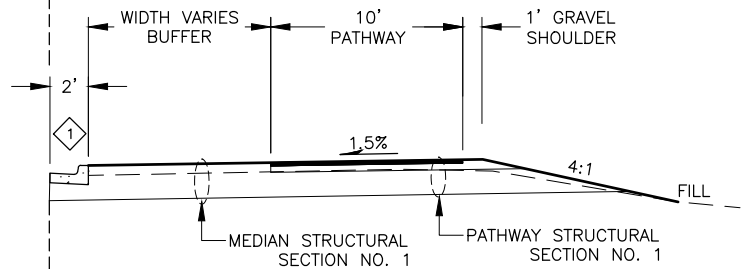
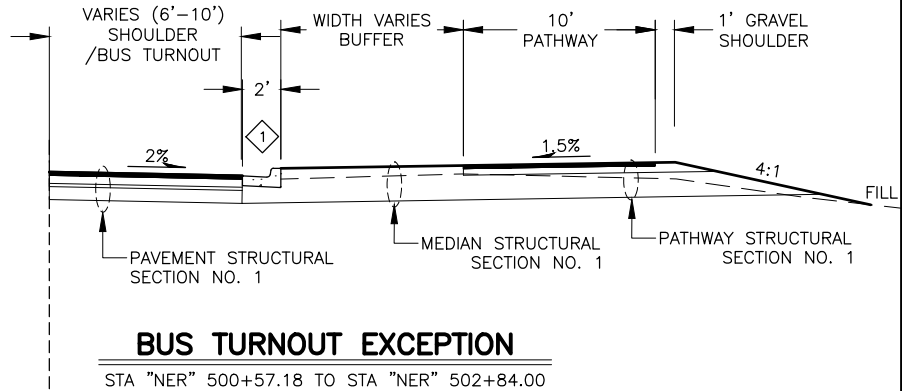
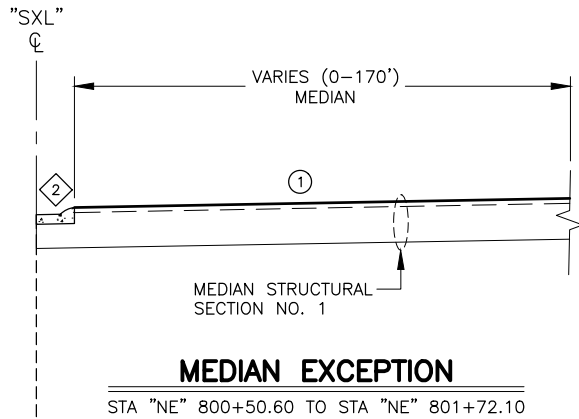
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GLENN HIGHWAY NORTHBOUND ENTRANCE RAMP
STA "NE" 800+33.99 TO STA "NE" 810+26.79



"R3" EXIT TO GLENN HIGHWAY NORTHBOUND ENTRANCE
STA "NER" 500+11.17 TO STA "NER" 503+03.96



SEPARATED PATHWAY EXCEPTION
STA "NER" 500+11.17 TO STA "NER" 500+57.18



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

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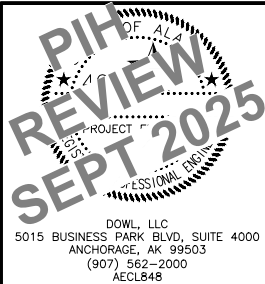
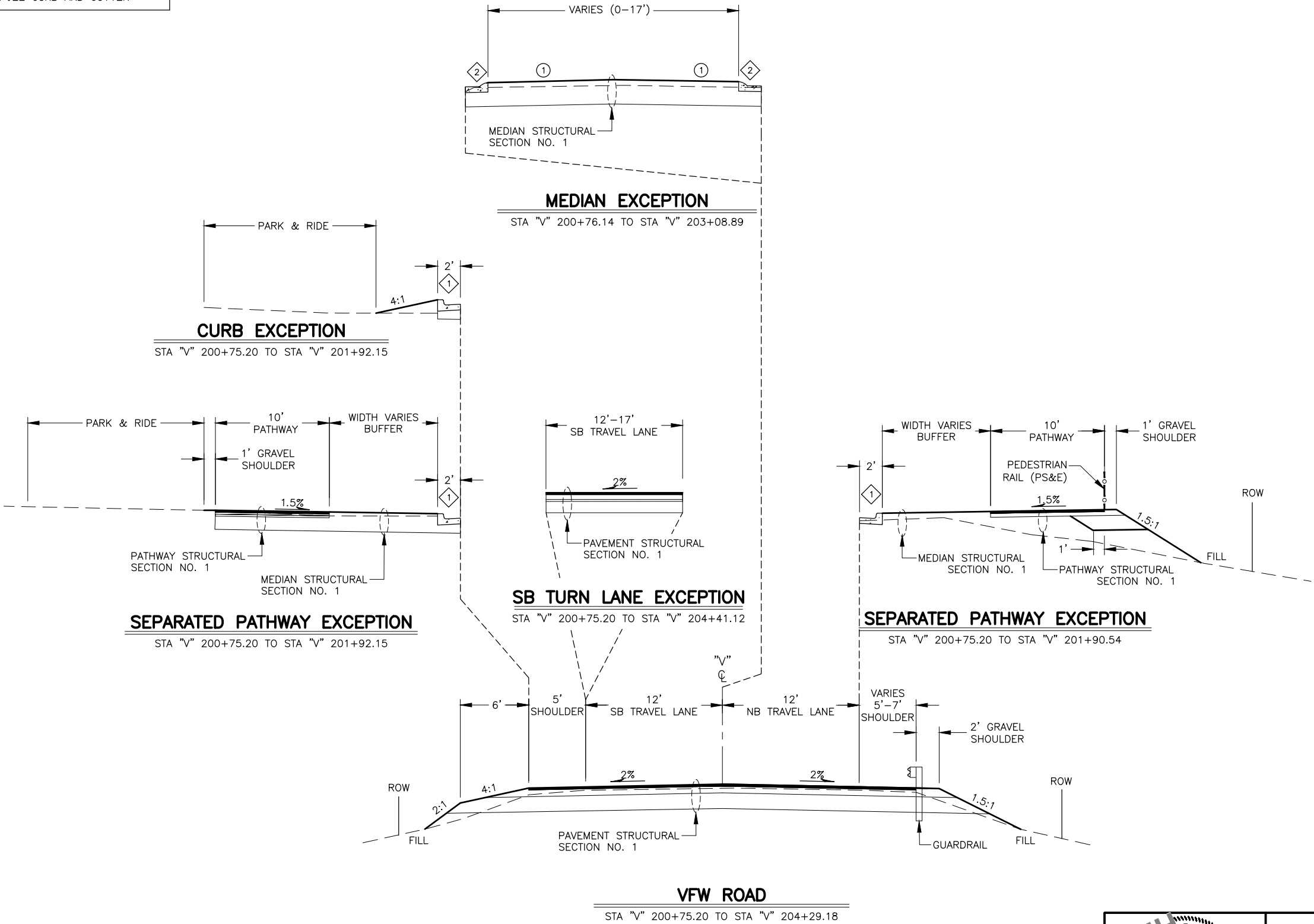
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①	CROSS-SLOPE VARIES, SEE GRADING PLAN
①	6" MOUNTABLE CURB AND GUTTER
②	EXPRESSWAY CURB AND GUTTER
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	B7	B10



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

TYPICAL SECTIONS

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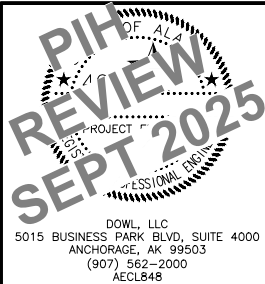
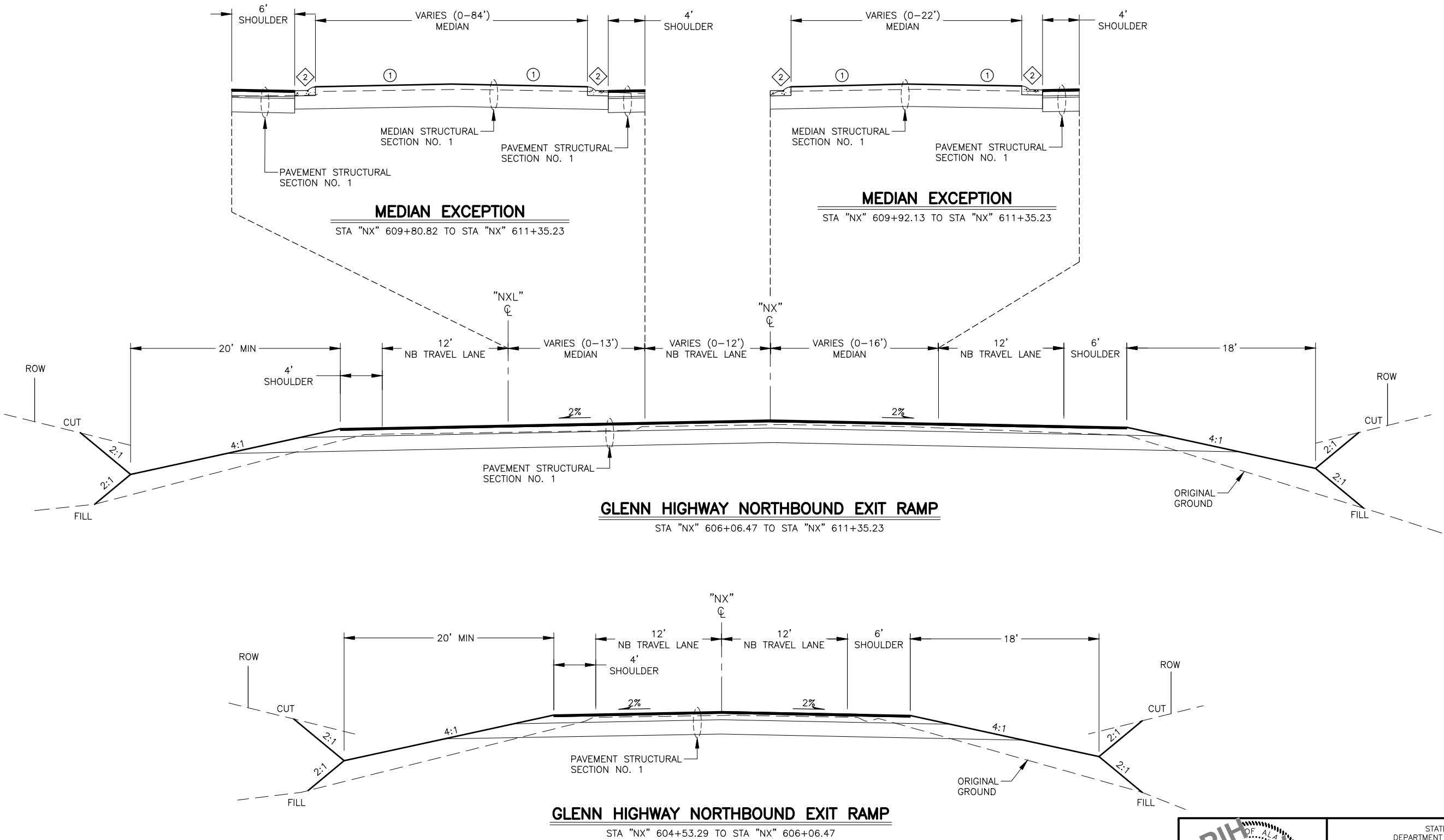
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

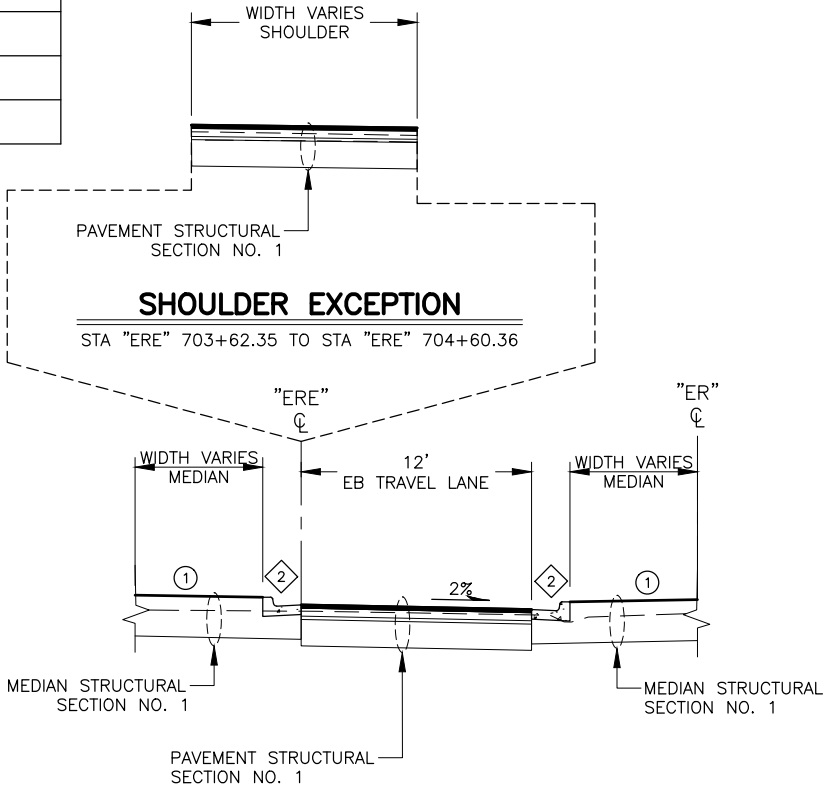
**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

TYPICAL SECTIONS

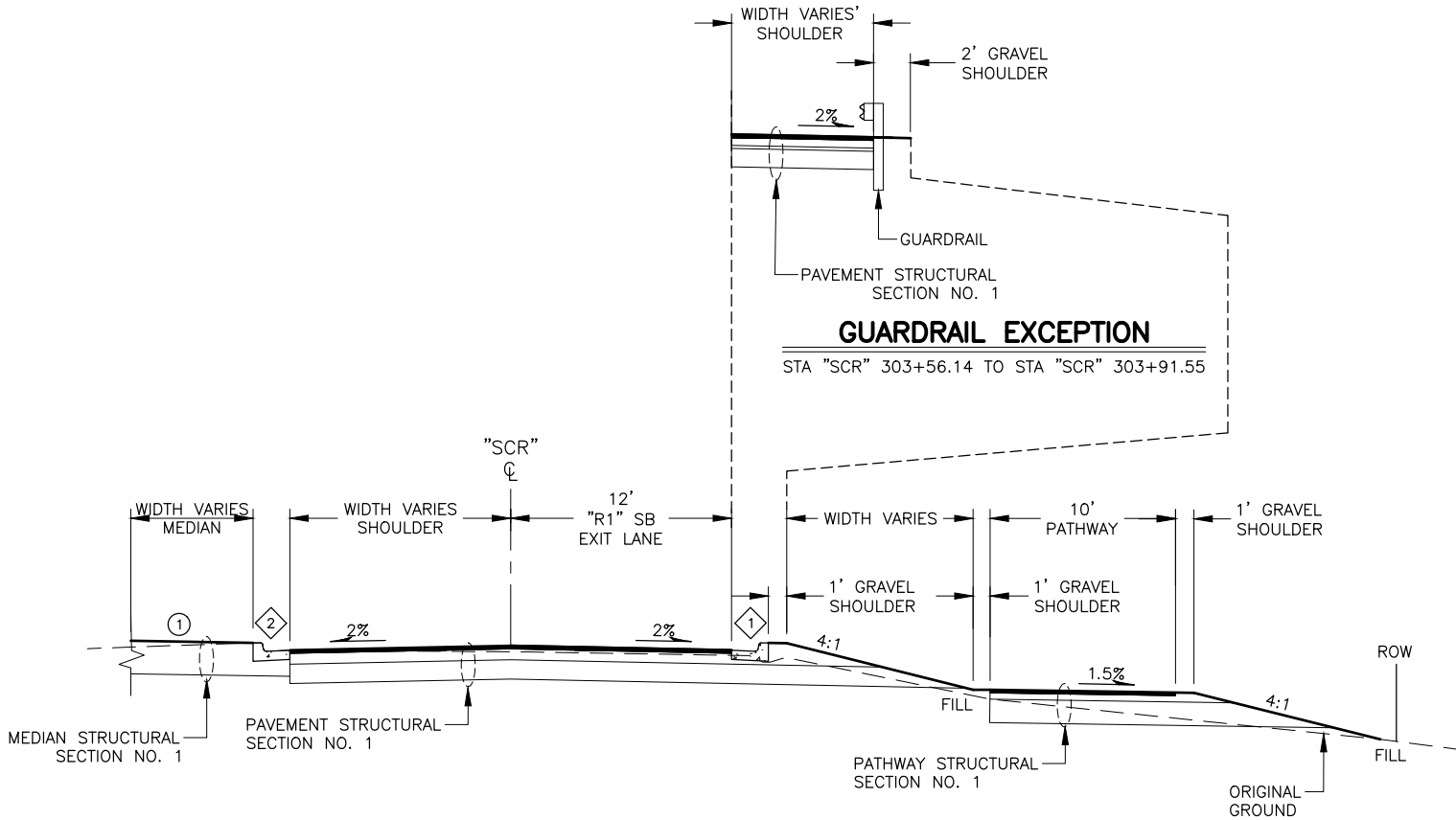
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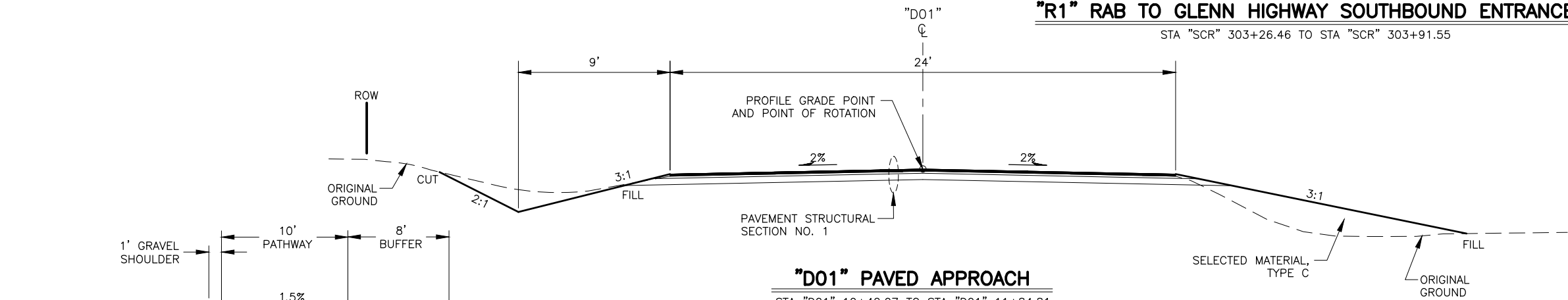
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			ALASKA	0A16055/CFHWY00917	2026	B9	B10



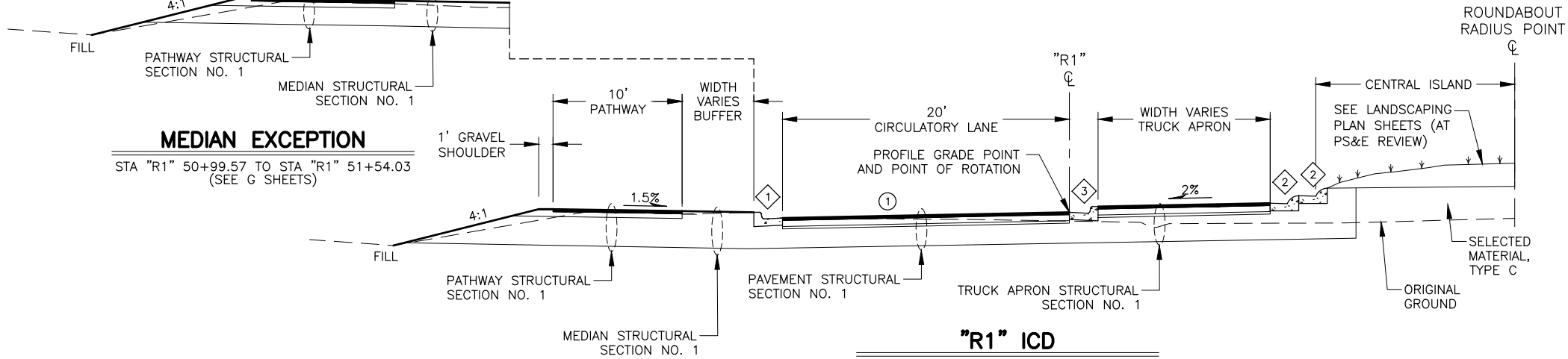
"R3" RAB EASTBOUND ENTRANCE
STA "ERE" 703+62.35 TO STA "ERE" 705+62.49



"R1" RAB TO GLENN HIGHWAY SOUTHBOUND ENTRANCE
STA "SCR" 303+26.46 TO STA "SCR" 303+91.55



"D01" PAVED APPROACH
STA "D01" 10+42.07 TO STA "D01" 11+84.81



"R1" ICD
STA "R1" 50+00.00 TO STA "R1" 52+67.03
(SEE G SHEETS)



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

TYPICAL SECTIONS

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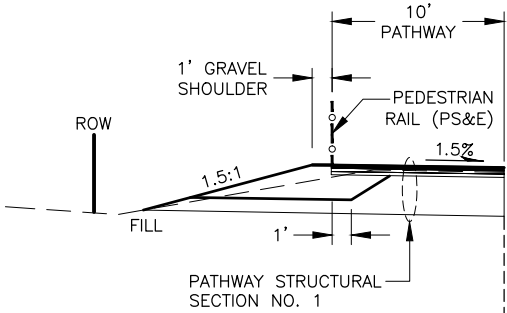
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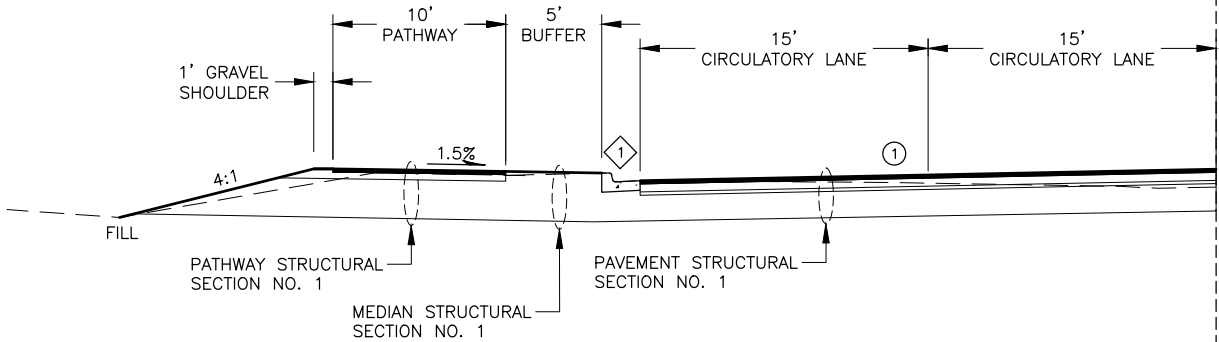
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◇1	6" MOUNTABLE CURB AND GUTTER
◇2	EXPRESSWAY CURB AND GUTTER
◇3	LOW PROFILE CURB AND GUTTER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	B10	B10



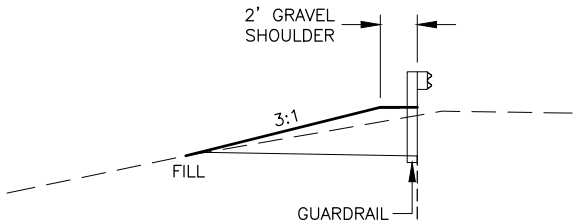
"R3" PEDESTRIAN RAIL EXCEPTION

STA "R2" 51+50.39 TO STA "R2" 52+23.57



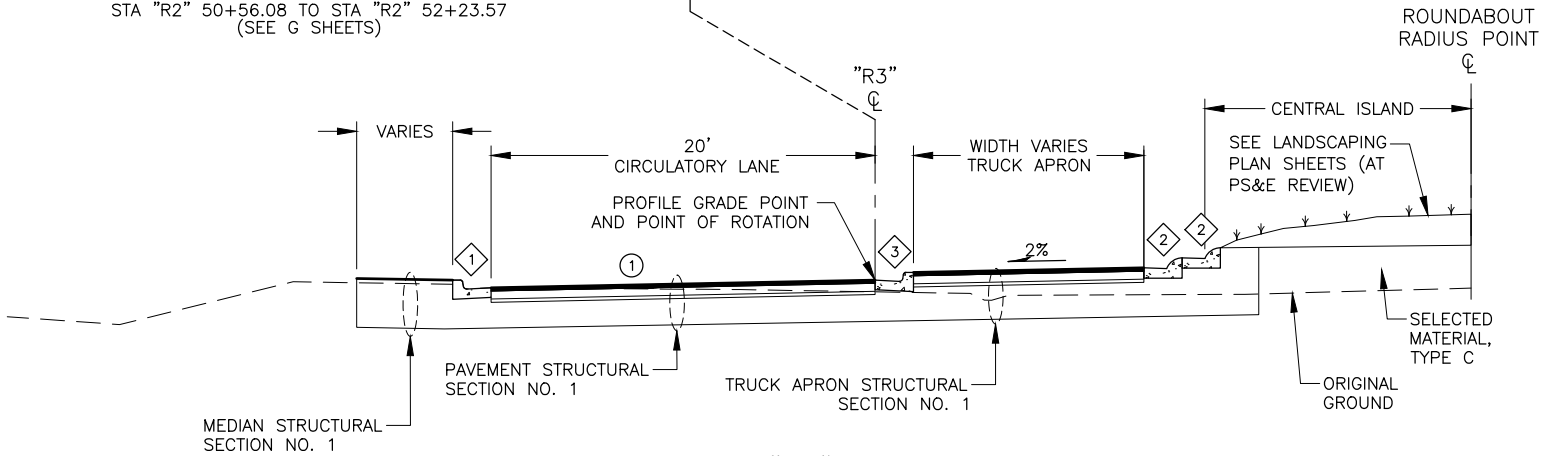
"R3" CIRCULATORY LANE

STA "R2" 50+56.08 TO STA "R2" 52+23.57
(SEE G SHEETS)



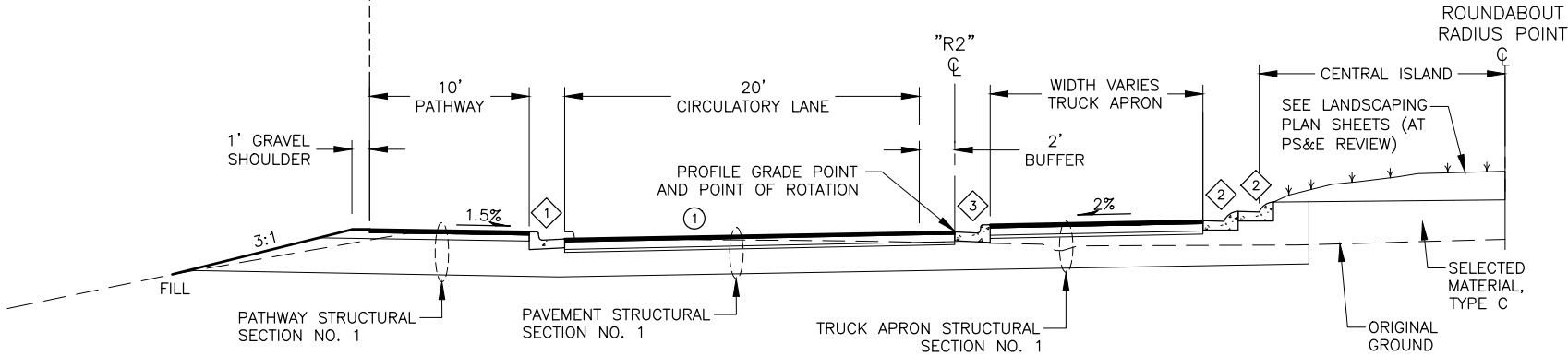
GUARDRAIL EXCEPTION

STA "R2" 52+78.99 TO STA "R2" 53+97.36
(SEE G SHEETS)



"R3" ICD

STA "R3" 50+00.00 TO STA "R3" 52+82.74
(SEE G SHEETS)



"R2" ICD

STA "R2" 50+19.14 TO STA "R2" 53+97.36
(SEE G SHEETS)



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

TYPICAL SECTIONS

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0003.0000	CLEARING AND GRUBBING	ACRE	8.3
202.0002.0000	REMOVAL OF PAVEMENT	SY	25,800
202.0003.0000	REMOVAL OF SIDEWALK	SY	155
202.0008.0000	REMOVAL OF INLET	EACH	3
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	2,500
202.2022.0000	REMOVAL OF FENCE	LF	860
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	57,000
203.0006.000A	BORROW, TYPE A	TON	83,000
203.0006.000C	BORROW, TYPE C	TON	1,000
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	8,750
306.0001.0000	ATB	TON	5,550
306.0002.6440	ASPHALT BINDER, GRADE PG 64-40 E	TON	294
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	TON	11
408.2001.00VH	HMA, TYPE VH	TON	3,700
408.2004.6440	ASPHALT BINDER, GRADE PG 64-40 E	TON	196
501.0007.0000	PRECAST CONCRETE MEMBER, EXISTING DECKED TEE REPAIR	EACH	1
501.2001.0000	SPALL REPAIR	SF	57
501.2021.0000	REMOVAL OF CONCRETE , SIDEWALK	CF	368
507.0002.0000	PEDESTRIAN RAILING	LF	244
507.0004.0000	CONCRETE BRIDGE BARRIER	LF	208
508.0001.0000	WATERPROOFING MEMBRANE, SPRAY-APPLIED	LS	ALL REQ'D
510.2001.0000	BRIDGE DECK REPAIR	CS	ALL REQ'D
603.0001.0024	CSP 24 INCH	LF	118
603.0003.0024	END SECTION FOR CSP 24 INCH	EACH	13
603.2032.0018	CORRUGATED HDPE PIPE 18 INCH	LF	1,600
604.0001.0001	STORM SEWER MANHOLE, TYPE I	EACH	2
604.0005.000A	INLET, TYPE A	EACH	21
606.0001.0000	W-BEAM GUARDRAIL	LF	4,200
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	2,550
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	6
606.0016.0000	TRANSITION RAIL	EACH	4
607.0003.0000	CHAIN LINK FENCE	LF	850
608.0006.0000	CURB RAMP	EACH	16
608.2002.0000	ASPHALT PATHWAY	TON	376
608.2013.E004	CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS, BUFFER, CENTER ISLAND, & MEDIAN	SY	5,200
608.2013.E006	CONCRETE, TYPE V, 6 INCHES THICK, COLORED AND PATTERN IMPRINTED, SLABS, BUFFER & TRUCK APRON	SY	1,100
609.0002.0001	CURB AND GUTTER, TYPE 1	LF	8,750
611.0001.0001	RIPRAP, CLASS I	CY	29
614.0001.0000	CONCRETE BARRIER	LF	379
615.0001.0000	STANDARD SIGN	SF	1,330
615.0006.0000	SALVAGE SIGN	EACH	80

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	C1	C2

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
618.0002.0000	SEEDING	LB	380
618.0003.0000	WATER FOR SEEDING	MGAL	253
620.0001.0000	TOPSOIL	SY	28,200
622.2020.0000	SHELTER, BUS	EACH	1
631.0002.0001	GEOTEXTILE, EROSION CONTROL, CLASS 1	SY	69
634.0001.0001	GEOGRID, STABILIZATION, CLASS 1	SY	6,250
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CS	ALL REQ'D
641.0006.0000	WITHHOLDING	CS	ALL REQ'D
641.0007.0000	SWPPP MANAGER	LS	ALL REQ'D
641.0008.0000	SWPPPTRACK	CS	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HR	350
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQ'D
643.0032.0000	FLAGGING	CS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.0002.0000	FIELD LABORATORY	LS	ALL REQ'D
644.2003.0000	IMAGE DOCUMENTION	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
645.0001.0000	TRAINING PROGRAM, 5 TRAINEES/APPRENTICES	LH	2,500
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
646.2000.0000	SCHEDULE PRICE ADJUSTMENT	CS	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1CY BUCKET, 75-HP MINIMUM, 15 FT DEPTH	CS	ALL REQ'D
660.0003.0000	HIGHWAY LIGHTING SYSTEM COMPLETE, GLENN HIGHWAY & HILAND RD INTERCHANGE	LS	ALL REQ'D
661.0002.0000	LOAD CENTER, TYPE 1A	EACH	3
661.0005.0000	MODIFY LOAD CENTER	EACH	1
669.2007.0000	AUTOMATIC VEHICLE CLASSIFICATION	LS	ALL REQ'D
670.2000.0000	MMA PAVEMENT MARKINGS	LS	ALL REQ'D
682.2000.0000	VAC-TRUCK POTHOLE	CS	ALL REQ'D



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	C2	C2

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
203.0006.000A	BORROW, TYPE A	144 LB/FT^3
203.0006.000C	BORROW, TYPE C	144 LB/FT^3
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/FT^3
306.0001.0000	ATB	151 LB/FT^3
306.0002.6440	ASPHALT BINDER, GRADE PG 64-40 E	5.3% OF 306.0001.0000
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000334 TON/SY
408.2001.00VH	HMA, TYPE VH	151 LB/FT^3
408.2004.6440	ASPHALT BINDER, GRADE PG 64-40 E	5.3% OF 408.2001.00VH
608.2002.0000	ASPHALT PATHWAY	151 LB/FT^3
618.0003.0000	WATER FOR SEEDING	1 GAL/SF

PIH
REVIEW
SEPT 2025

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PROJECT
EST. BY
PROFESSIONAL REVIEW

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	D1	D7

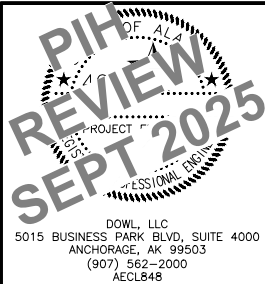
201.0003.0000 – CLEARING AND GRUBBING					
SHEET	STATION FROM	STATION TO	OFFSET	AREA (ACRE)	REMARKS
F1	"ER" 504+50	"ER" 509+00	LT/RT	0.61	
F2	"ER" 509+00	"ER" 514+50	LT/RT	0.38	
F3	"ER" 514+50	"ER" 519+50	LT/RT	0.62	
F4	"ER" 519+50	"ER" 523+60	LT/RT	0.11	
F5	"NX" 604+53	"NX" 608+00	LT/RT	0.40	
F6	"NX" 608+00	"NX" 611+00	LT/RT	0.47	
F7	"V" 201+00	"V" 204+42	LT/RT	0.91	
F8	"NE" 801+06	"NE" 805+50	LT/RT	0.40	
F9	"NE" 805+50	"NE" 810+27	LT/RT	0.60	
F10	"GSF" 983+84	"GSF" 988+00	LT	0.19	
F11	"GSF" 988+00	"GSF" 993+25	LT	0.53	
F12	"GSF" 993+25	"GSF" 998+50	LT	0.66	
F13	"GSF" 998+50	"GSF" 1003+75	LT	0.49	
F14	"GSF" 1003+75	"GSF" 1009+00	LT	0.17	
F15	"GSF" 1009+00	"GSF" 1011+12	LT	0.22	
F17	"ERW" 706+25	"ERW" 711+50	LT/RT	0.66	
F19	"SX" 800+75	"SX" 805+08	LT/RT	0.88	
TOTAL:				8.30	ACRE
PAY ITEM QUANTITY:				8.3	ACRE

202.0003.0000 – REMOVAL OF SIDEWALK						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	AREA (SY)	REMARKS
F1	"ER" 507+60	13.1' RT	"ER" 507+72	22.0' RT	14.3	
F1	"ER" 507+75	26.8' LT	"ER" 507+96	23.4' LT	21.8	
F1	"ER" 507+96	28.1' LT	"ER" 508+04	39.4' LT	15.8	
F1	"ER" 508+56	39.8' LT	"ER" 508+66	28.0' LT	15.0	
F2	"ER" 509+56	15.5' LT	"ER" 509+76	15.4' LT	24.2	
F2	"ER" 509+76	15.4' LT	"ER" 511+84	15.1' LT	11.6	
F2	"ER" 511+84	15.1' LT	"ER" 512+04	15.4' LT	24.4	
F2	"ER" 512+85	18.7' LT	"ER" 513+00	28.1' LT	9.1	
F2	"ER" 513+47	37.9' LT	"ER" 513+60	27.7' LT	8.6	
F3	"ER" 515+32	20.2' LT	"ER" 515+46	31.8' LT	9.3	
TOTAL:					154.1	SY
PAY ITEM QUANTITY:					155	SY

202.0008.0000 – REMOVAL OF INLET				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
F3	"ER" 515+99	70.7' RT	1	
F3	"ER" 516+48	27.8' RT	1	
F3	"ER" 519+36	2.1' LT	1	
TOTAL:			3	EACH
PAY ITEM QUANTITY:			3	EACH

202.0002.0000 – REMOVAL OF PAVEMENT						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	AREA (SY)	REMARKS
F1	"ER" 504+50	LT/RT	"ER" 509+00	LT/RT	2,491.0	ROADWAY
F1	"ER" 507+49	7.4' RT	"ER" 507+56	22.6' RT	13.4	ASPHALT PATHWAY
F1	"ER" 507+64	29.0' RT	"ER" 508+12	57.8' RT	39.1	ASPHALT PATHWAY
F1	"ER" 507+95	33.4' LT	"ER" 507+95	28.5' LT	11.3	ASPHALT PATHWAY
F1	"ER" 508+66	28.0' LT	"ER" 509+00	14.4' LT	37.6	ASPHALT PATHWAY
F1	"ER" 509+00	15.4' LT	"ER" 509+56	15.5' LT	66.2	ASPHALT PATHWAY
F2	"ER" 509+00	LT/RT	"ER" 509+77	LT/RT	361.6	ROADWAY
F2	"ER" 511+84	LT/RT	"ER" 514+50	LT/RT	1,638.2	ROADWAY
F2	"ER" 512+04	15.4' LT	"ER" 513+09	74.5' LT	153.8	ASPHALT PATHWAY
F2	"ER" 513+39	70.2' LT	"ER" 514+50	22.4' LT	144.7	ASPHALT PATHWAY
F3	"ER" 514+50	22.4' LT	"ER" 515+49	69.3' LT	140.2	ASPHALT PATHWAY
F3	"ER" 514+50	LT/RT	"ER" 519+50	LT/RT	4,631.8	ROADWAY
F3	"ER" 515+99	72.7' RT	"ER" 516+51	32.6' RT	48.6	MEDIAN
F3	"ER" 516+00	9.6' RT	"ER" 519+50	LT/RT	179.3	MEDIAN
F4	"ER" 519+50	RT	"ER" 520+62	RT	448.4	ROADWAY
F4	"ER" 519+50	LT	"ER" 523+60	LT	1,630.7	ROADWAY
F3	"ER" 519+50	LT/RT	"ER" 520+62	LT/RT	59.7	MEDIAN
F5	"NX" 604+53	LT/RT	"NX" 608+00	LT/RT	1,373.1	ROADWAY
F6	"NX" 608+00	LT/RT	"NX" 611+04	31.9' RT	1,245.9	ROADWAY
F7	"V" 201+00	LT/RT	"V" 204+29	LT/RT	1,077.1	ROADWAY
F8	"NE" 801+06	LT/RT	"NE" 805+50	LT/RT	1,100.6	ROADWAY
F9	"NE" 805+50	LT/RT	"NE" 810+27	LT/RT	934.4	ROADWAY
F10	"GSF" 983+84	LT	"GSF" 988+00	LT	451.6	ROADWAY
F11	"GSF" 988+00	LT	"GSF" 993+25	LT	417.5	ROADWAY
F12	"GSF" 993+25	LT	"GSF" 998+50	LT	436.2	ROADWAY
F13	"GSF" 998+50	LT	"GSF" 1003+75	LT	796.1	ROADWAY
F14	"GSF" 1003+75	LT	"GSF" 1009+00	LT	1,350.1	ROADWAY
F15	"GSF" 1009+00	LT	"GSF" 1011+12	LT	346.2	ROADWAY
F16	"ERW" 701+17	LT/RT	"ERW" 706+25	LT/RT	1,387.5	ROADWAY
F17	"ERW" 706+25	LT/RT	"ERW" 711+50	LT/RT	1,303.7	ROADWAY
F19	"SX" 800+75	LT/RT	"SX" 805+08	LT/RT	1,450.9	ROADWAY
TOTAL:					25,766.5	SY
PAY ITEM QUANTITY:					25,800	SY

202.2022.0000 – REMOVAL OF FENCE						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
--	--	--	--	--	595.0	NE QUADRANT
--	--	--	--	--	260.0	NW QUADRANT
TOTAL:					855.0	LF
PAY ITEM QUANTITY:					860	LF



STATE OF ALASKA
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			ALASKA	0A16055/CFHWY00917	2026	D2	D7

202.0009.0000 – REMOVAL OF CURB AND GUTTER						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F1	"ER" 504+50	6.4' RT	"ER" 506+25	20.9' LT	298.1	MEDIAN
F1	"ER" 507+41	46.0' LT	"ER" 508+10	63.0' LT	113.9	
F1	"ER" 507+49	6.7' RT	"ER" 508+13	57.4' RT	68.6	
F1–F2	"ER" 508+53	79.4' LT	"ER" 509+56	14.9' LT	150.5	
F2	"ER" 511+84	15.1' LT	"ER" 513+11	71.9' LT	167.7	
F2–F3	"ER" 513+38	66.9' LT	"ER" 515+51	67.4' LT	278.6	
F3	"ER" 515+99	74.6' RT	"ER" 516+54	30.6' RT	180.5	MEDIAN
F3–F4	"ER" 515+97	12.2' RT	"ER" 523+59	4.4' LT	1,228.4	MEDIAN
TOTAL:					2,486.3	LF
PAY ITEM QUANTITY:					2,500	LF

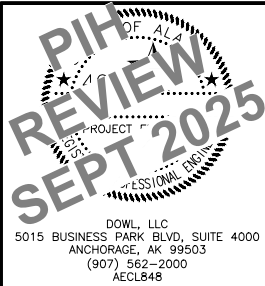
603.0001.0024 – CSP 24 INCH						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
Q4	"V" 203+46	62.80' LT	"V" 203+90	60.86' LT	44.3	
Q7	"GSF" 1002+21	15.97' LT	"GSF" 1002+18	57.50' LT	41.7	
Q9	"ERW" 711+25	76.95' LT	"ERW" 711+06	52.63' LT	31.1	
TOTAL:					117.1	LF
PAY ITEM QUANTITY:					118	LF

603.0003.0024 – END SECTION FOR CSP 24 INCH				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
Q1	"ERW" 711+32	39.6' LT	1	
Q1	"ERW" 711+58	89.8' LT	1	
Q1	"ERW" 717+67	62.8' RT	1	
Q1	"ER" 508+18	85.5' LT	1	
Q2	"ERW" 722+55	78.5' RT	1	
Q2	"NX" 609+98	5.0' RT	1	
Q4	"V" 202+45	91.1' RT	1	
Q4	"V" 203+46	62.8' LT	2	BOTH ENDS
Q9	"ERW" 711+25	55.0' LT	2	BOTH ENDS
Q7	"GSF" 1002+18	57.5' LT	2	BOTH ENDS
TOTAL:			13	EACH
PAY ITEM QUANTITY:			13	EACH

603.2032.0018 – CORRUGATED HDPE PIPE 18 INCH						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
Q1	"ER" 506+10	38.40' LT	"ER" 506+13	31.30' RT	69.7	
Q1	"ER" 506+13	31.30' RT	"ER" 506+98	69.38' RT	132.9	
Q1	"ER" 506+12	3.22' LT	"ER" 506+26	3.93' LT	15.0	
Q1	"ER" 506+98	69.38' RT	"ER" 507+49	44.14' RT	57.5	
Q1	"ER" 506+98	69.38' RT	"ERW" 711+58	89.81' LT	31.3	
Q1	"ERW" 711+71	13.75' LT	"ERW" 711+32	39.60' LT	50.5	
Q1	"ER" 507+47	42.71' LT	"ER" 508+17	16.16' LT	84.6	
Q1	"ER" 508+17	16.16' LT	"ER" 508+18	85.49' LT	69.3	
Q1	"ER" 508+17	16.16' LT	"ER" 509+48	15.50' LT	130.6	
Q1	"ER" 509+48	15.50' LT	"ER" 509+48	1.00' RT	16.5	
Q1	"ER" 512+17	15.50' LT	"ER" 512+96	17.98' LT	78.9	
Q1	"ER" 512+96	17.98' LT	"ER" 512+97	6.71' RT	24.7	
Q1	"ER" 512+97	6.71' RT	"ERW" 717+45	39.00' RT	76.4	
Q2	"ERW" 719+16	19.53' LT	"ERW" 718+81	22.50' RT	55.0	
Q2	"ERW" 718+81	22.50' RT	"ERW" 717+76	60.64' RT	143.6	
Q2	"ER" 516+20	3.08' LT	"NX" 612+24	1.50' RT	36.1	
Q2	"NX" 612+24	1.50' RT	"NX" 609+98	5.00' RT	209.0	
Q2	"ERW" 722+69	23.24' LT	"ERW" 723+13	77.80' RT	109.4	
Q3	"NX" 609+98	5.00' RT	"NX" 609+92	24.78' LT	30.5	
Q3	"NX" 609+92	24.78' LT	"NX" 609+80	78.49' LT	55.0	
Q4	"V" 201+90	28.39' RT	"V" 202+45	91.07' RT	83.4	
TOTAL:					1,559.9	LF
PAY ITEM QUANTITY:					1,600	LF

604.0001.0001 – STORM SEWER MANHOLE, TYPE I				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
Q1	"ER" 508+17	16.2' LT	1	
Q1	"ER" 506+12	3.2' LT	1	
TOTAL:			2	EACH
PAY ITEM QUANTITY:			2	EACH

NOTE:
Q–SHEETS TO BE PROVIDED AT PS&E REVIEW



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			ALASKA	0A16055/CFHWY00917	2026	D3	D7

604.0005.000A – INLET, TYPE A				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
Q1	"ER" 506+12	30' LT/RT	2	Each Side
Q1	"ER" 506+12	3.2' LT	1	
Q1	"ER" 506+98	69.4' RT	1	
Q1	"ER" 507+49	44.1' RT	1	
Q1	"ER" 507+47	42.7' LT	1	
Q1	"ER" 508+18	85.5' LT	1	
Q1	"ER" 512+18	15.5' LT	1	
Q1	"ER" 512+96	18.0' LT	1	
Q1	"ER" 512+97	6.7' RT	1	
Q1	"ER" 509+48	15.5' LT	1	
Q1	"ER" 509+48	1.0' RT	1	
Q2	"ERW" 719+16	19.5' LT	1	
Q2	"ERW" 718+81	22.5' RT	1	
Q2	"ER" 516+20	3.1' LT	1	
Q2	"NX" 612+25	1.5' RT	1	
Q2	"ERW" 722+70	23.2' LT	1	
Q3	"NX" 609+98	5.0' RT	1	
Q3	"NX" 609+92	25.0' LT	1	
Q4	"V" 201+90	28.4' RT	1	
Q4	"V" 204+17	14.3' LT	1	
TOTAL:			21	EACH
PAY ITEM QUANTITY:			21	EACH

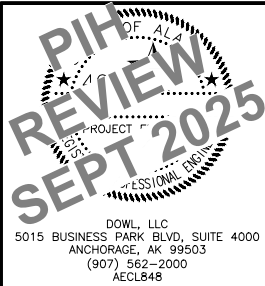
606.0001.0000 – W-BEAM GUARDRAIL						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F1–F2	"ER" 508+31	78.0' LT	"ER" 509+41	26.2' LT	137.5	
F2	"ER" 512+19	26.2' LT	"ER" 512+69	61.4' LT	75.0	
F2	"ER" 512+19	26.7' RT	"ER" 512+89	56.2' RT	87.5	
F7	"V" 201+96	40.7' RT	"V" 204+29	19.9' RT	237.5	
F10–F18	"ERW" 711+69	54.8' LT	"GSF" 983+85	8.0' LT	3,450.0	
F17–F18	"ERW" 711+38	20.5' RT	"ERW" 713+40	12.7' RT	175.0	
TOTAL:					4,162.5	LF
PAY ITEM QUANTITY:					4,200.0	LF

606.0006.0000 – REMOVING AND DISPOSING OF GUARDRAIL						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F1–F2	"ER" 508+67	42.6' LT	"ER" 509+76	27.3' LT	118.8	
F1–F2	"ER" 508+71	52.7' RT	"ER" 509+58	27.8' RT	101.0	
F2	"ER" 512+01	26.4' LT	"ER" 513+03	57.3' LT	119.7	
F2	"ER" 512+02	27.8' RT	"ER" 512+57	30.7' RT	61.2	
F7	"V" 201+32	24.3' RT	"V" 203+77	18.4' RT	249.1	
F10–F12	"GSF" 988+98	13.6' LT	"GSF" 1001+54	15.4' LT	1,259.8	
F14–F15	"ERW" 701+76	26.7' LT	"ERW" 708+09	10.0' LT	630.1	
TOTAL:					2,539.7	LF
PAY ITEM QUANTITY:					2,550	LF

507.0002.0000 – PEDESTRIAN RAILING						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F7	"V" 200+24	132.2' RT	"V" 201+95	39.0' RT	243.8	
TOTAL:					243.8	LF
PAY ITEM QUANTITY:					244	LF

606.0013.0000 – PARALLEL GUARDRAIL TERMINAL						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	QUANTITY (EACH)	REMARKS
F1	"ER" 507+00	67.6' RT	"ER" 507+26	95.3' RT	1	
F2	"ER" 512+69	61.4' LT	--	--	1	END ANCHOR
F2	"ER" 512+86	56.2' RT	--	--	1	END ANCHOR
F7	"V" 201+96	40.7' RT	--	--	1	END ANCHOR
F17	"ERW" 711+38	20.5' RT	--	--	1	END ANCHOR
F19	"SX" 800+89	58.2' RT	"SX" 801+52	30.8' RT	1	
TOTAL:					6	EACH
PAY ITEM QUANTITY:					6	EACH

NOTE:
Q–SHEETS TO BE PROVIDED AT PS&E REVIEW



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			ALASKA	0A16055/CFHWY00917	2026	D4	D7

607.0003.0000 – CHAIN LINK FENCE

SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
--	--	--	--	--	540.0	NE QUADRANT
--	--	--	--	--	307.0	NW QUADRANT
TOTAL:					847.0	LF
PAY ITEM QUANTITY:					850	LF

608.2002.0000 – ASPHALT PATHWAY

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	WEIGHT (TON)	REMARKS
F1	"ER" 506+05	31.8' RT	"ER" 507+10	91.0' RT	11.9	
F1	"ER" 506+05	42.8' LT	"ER" 507+17	121.0' RT	25.8	
F1	"ER" 508+18	86.9' LT	"ER" 512+85	75.8' LT	67.3	
F2	"ER" 513+27	70.0' LT	"ER" 514+55	33.2' LT	17.5	MEDIAN
F3	"ER" 515+54	92.3' LT	"ER" 518+30	50.7' LT	33.4	
F7	"V" 200+78	37.9' RT	"V" 200+91	30.6' RT	1.8	
F7	"V" 200+89	88.2' LT	"V" 201+93	34.9' LT	19.2	
F7	"V" 201+00	28.2' RT	"V" 202+25	27.3' RT	14.6	
F8	"NE" 801+19	142.8' RT	"NE" 801+79	34.0' RT	16.5	
F10-F13	"GSF" 987+90	37.5' LT	"GSF" 1003+51	54.1' LT	155.4	
F17	"ERW" 710+94	60.9' LT	"ERW" 711+51	52.6' LT	7.1	
F19	"SX" 800+65	15.6' LT	"SX" 800+97	8.7' RT	5.0	MEDIAN
TOTAL:					375.5	TON
PAY ITEM QUANTITY:					376	TON

608.0006.0000 – CURB RAMP

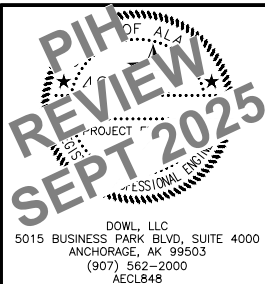
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
F1	"ER" 506+00	28.6' RT	1	
F1	"ER" 506+02	36.8' LT	1	
F1	"ER" 506+06	5.5' RT	1	
F1	"ER" 506+06	16.9' LT	1	
F1	"SX" 800+68	29.8' LT	1	
F1	"SX" 800+73	44.4' LT	1	
F3	"ER" 514+61	44.6' LT	1	
F3	"ER" 514+61	61.2' LT	1	
F7	"V" 200+96	20.8' RT	1	
F7	"V" 200+98	3.3' LT	1	
F7	"V" 200+98	3.7' RT	1	
F7	"V" 201+03	37.7' LT	1	
F8	"NE" 801+09	14.0' LT	1	
F8	"NE" 801+09	8.0' RT	1	
F19	"SX" 800+96	20.5' RT	1	
F19	"SX" 801+10	41.2' RT	1	
TOTAL:			16	EACH
PAY ITEM QUANTITY:			16	EACH

**608.2013.E004 – CONCRETE, TYPE V, 4 INCHES THICK, COLORED AND PATTERN
IMPRINTED, SLABS, BUFFER, CENTER ISLAND, & MEDIAN**

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS
F1	"ER" 505+49	LT/RT	"ER" 505+56	LT/RT	122.5	MEDIAN
F1	"ER" 506+05	29.8' RT	"ER" 507+00	66.9' RT	74.2	BUFFER
F1	"ER" 506+06	37.6' LT	"ER" 507+61	85.5' LT	62.6	BUFFER
F1	"ER" 506+71	LT/RT	"ER" 507+19	LT/RT	206.7	CENTER ISLAND
F1	"ER" 507+71	LT/RT	"ER" 508+86	LT/RT	377.4	CENTER ISLAND
F1	"ERW" 711+69	14.8' LT	"ERW" 712+15	15.9' LT	210.0	MEDIAN
F1, F18	"SX" 800+38	LT/RT	"SX" 802+04	LT/RT	424.0	MEDIAN
F2	"NE" 800+20	17.1' LT	"NE" 801+04	14.4' LT	32.3	BUFFER
F2	"ER" 512+66	LT/RT	"ER" 514+48	LT/RT	382.1	CENTER ISLAND
F2-F3	"ER" 512+93	22.7' LT	"ER" 514+84	40.4' LT	659.3	MEDIAN
F2	"ER" 513+96	91.2' LT	"ER" 514+56	61.5' LT	50.2	BUFFER
F3	"ER" 514+66	61.0' LT	"ER" 515+12	86.8' LT	80.4	BUFFER
F3	"ER" 515+24	LT/RT	"ER" 515+69	LT/RT	171.1	CENTER ISLAND
F3	"ER" 515+78	106.7' LT	"ER" 517+94	46.6' LT	203.7	BUFFER
F3-F4	"ER" 516+20	LT/RT	"ER" 520+62	LT/RT	767.7	MEDIAN
F6	"NX" 609+83	19.4' LT	"NX" 611+27	22.9' LT	715.6	MEDIAN
F6	"NX" 609+96	6.1' RT	"NX" 612+28	2.9' RT	307.4	BUFFER
F7	"V" 200+78	LT/RT	"V" 203+05	LT/RT	289.7	MEDIAN
F7	"V" 201+01	20.0' RT	"V" 201+90	28.9' RT	56.9	BUFFER
TOTAL:					5,191.8	SY
PAY ITEM QUANTITY:					5,200	SY

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

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	WEIGHT (TON)	REMARKS
F1	"ER" 505+42	LT/RT	"ER" 505+74	LT/RT	27.3	TRUCK APRON
F1	"ER" 506+30	45.0' LT	"ER" 507+43	72.2' LT	15.6	TRUCK APRON
F1	"ER" 506+51	LT/RT	"ER" 507+32	LT/RT	291.7	TRUCK APRON
F1	"ER" 507+58	LT/RT	"ER" 508+33	LT/RT	199.7	TRUCK APRON
F2	"ER" 512+23	16.0' LT	"ER" 512+95	74.1' LT	24.0	TRUCK APRON
F2-F3	"ER" 513+76	LT/RT	"ER" 514+65	LT/RT	62.1	TRUCK APRON
F3	"ER" 514+86	62.1' LT	"ER" 515+11	79.5' LT	9.3	TRUCK APRON
F3	"ER" 515+09	LT/RT	"ER" 515+95	LT/RT	411.7	TRUCK APRON
F3	"ER" 516+36	46.0' LT	"ER" 516+79	30.0' LT	7.6	TRUCK APRON
F6	"NX" 611+01	2.0' RT	"NX" 611+50	2.0' RT	7.0	TRUCK APRON
TOTAL:					1,056.0	TON
PAY ITEM QUANTITY:					1,100	TON



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

SUMMARY TABLE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16055/CFHWY00917	2026	D5	D7

609.0002.0001 – CURB AND GUTTER, TYPE 1						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	"ER" 504+50	6.4' RT	"ER" 505+19	LT/RT	86.1	MEDIAN
F1	"ER" 505+16	35.6' RT	"ER" 507+28	93.7' RT	279.2	
F1	"ER" 505+42	LT/RT	"ER" 506+28	LT/RT	215.5	MEDIAN
F1	"ER" 505+48	5.6' RT	"ER" 505+78	13.1' LT	35.4	BUFFER
F1	"ER" 505+84	32.4' LT	"ER" 507+64	87.9' LT	140.7	
F1	"ER" 506+19	41.5' LT	"ER" 507+48	75.0' LT	77.0	BUFFER
F1	"ER" 506+50	LT/RT	"ER" 507+32	LT/RT	257.6	CENTER ISLAND
F1	"ER" 506+68	LT/RT	"ER" 507+21	LT/RT	327.6	TRUCK APRON
F1	"ER" 507+26	57.0' RT	"ER" 508+24	64.8' RT	209.6	MEDIAN
F1	"ER" 507+57	LT/RT	"ER" 508+89	LT/RT	325.7	BUFFER
F1	"ER" 507+70	LT/RT	"ER" 508+38	LT/RT	139.8	CENTER ISLAND
F1, F18	"SX" 800+38	LT/RT	"SX" 802+07	LT/RT	438.0	MEDIAN
F1–F2	"ER" 508+20	76.8' LT	"ER" 512+95	74.5' LT	528.7	
F2	"ER" 512+38	18.2' LT	"ER" 512+95	74.1' LT	82.8	BUFFER
F2–F3	"ER" 512+52	LT/RT	"ER" 514+65	8.1' LT	408.1	BUFFER
F2–F3, F8	"ER" 512+93	19.9' LT	"ER" 514+85	43.1' LT	537.0	MEDIAN
F2	"ER" 513+65	LT/RT	"ER" 514+48	LT/RT	120.4	CENTER ISLAND
F2–F3	"ER" 514+21	74.5' LT	"ER" 515+05	65.1' LT	87.3	
F3	"ER" 514+77	61.3' LT	"ER" 515+12	83.4' LT	41.9	BUFFER
F3	"ER" 515+08	LT/RT	"ER" 515+95	LT/RT	275.0	TRUCK APRON
F3	"ER" 515+21	LT/RT	"ER" 515+71	LT/RT	299.5	CENTER ISLAND
F3–F4	"ER" 515+85	69.6' LT	"ER" 520+04	57.9' LT	430.7	
F3–F4	"ER" 516+18	LT/RT	"ER" 523+60	4.4' LT	1,220.7	MEDIAN
F3	"ER" 516+26	51.7' LT	"ER" 516+85	29.9' LT	57.9	BUFFER
F6	"NX" 609+82	18.2' LT	"NX" 611+27	22.7' LT	413.8	MEDIAN
F6	"NX" 609+94	8.6' RT	"NX" 612+29	2.9' RT	458.3	MEDIAN
F6	"NX" 610+92	2.0' RT	"NX" 611+61	2.0' RT	66.5	BUFFER
F7	"V" 200+51	53.1' RT	"V" 201+90	28.4' RT	161.5	
F7	"V" 200+70	50.6' LT	"V" 202+43	40.9' LT	165.6	
F7	"V" 200+78	LT/RT	"V" 203+07	1.5' RT	477.3	MEDIAN
F8	"NE" 801+05	13.5' LT	"NE" 801+44	17.5' LT	37.8	
F8	"NE" 801+14	112.0' RT	"NE" 802+33	19.9' RT	168.0	
F19	"SX" 800+72	44.4' LT	"SX" 801+10	38.1' LT	53.7	
F19	"SX" 800+84	47.3' RT	"SX" 801+77	28.7' RT	78.6	
TOTAL:					8,904.4	LF
PAY ITEM QUANTITY:					8,950	LF

622.2020.0000 – SHELTER, BUS				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
F7	--	--	1	
TOTAL:			1	EACH
PAY ITEM QUANTITY:			1	EACH

611.0001.0001 – RIPRAP, CLASS I						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	VOLUME (CY)	REMARKS
Q1	"ERW" 711+58	89.8' LT	"ERW" 711+58	89.8' LT	0.93	
Q1	"ERW" 711+32	39.6' LT	"ERW" 711+32	39.6' LT	0.93	
Q1	"ER" 508+18	85.5' LT	"ER" 508+18	85.5' LT	0.93	
Q1	"ERW" 717+45	39.0' RT	"ERW" 717+51	40.1' RT	0.93	
Q2	"NX" 609+98	5.0' RT	"NX" 609+98	5.0' RT	0.93	
Q2	"ERW" 723+13	77.8' RT	"ERW" 723+21	85.9' RT	1.72	
Q2	"ERW" 717+76	60.6' RT	"ERW" 717+73	66.2' RT	0.93	
Q4	"V" 202+45	91.1' RT	"V" 202+45	91.1' RT	0.93	
Q4	"V" 202+44	42.1' LT	"V" 202+65	47.6' LT	3.81	
Q1	"ERW" 713+50	13.7' RT	"ERW" 713+50	37.4' RT	3.28	
Q1	"ERW" 716+04	13.0' RT	"ERW" 716+10	40.3' RT	3.87	
Q4	"NE" 801+43	18.1' LT	"NE" 801+43	18.1' LT	0.93	
Q10	"SX" 801+80	27.1' RT	"SX" 801+79	48.7' RT	3.03	
Q2	"ERW" 724+84	23.2' LT	"ERW" 725+06	41.1' LT	5.35	
TOTAL:					28.5	CY
PAY ITEM QUANTITY:					29	CY

614.0001.0000 – CONCRETE BARRIER						
SHEET	STATION FROM	OFFSET	STATION TO	OFFSET	LENGTH (LF)	REMARKS
F1–F2	"ER" 507+96	LT/RT	"ER" 509+76	LT/RT	180.0	
F1	"ER" 511+84	35.6' RT	"ER" 513+83	93.7' RT	198.6	
TOTAL:					378.6	LF
PAY ITEM QUANTITY:					379	LF

NOTE:
Q–SHEETS TO BE PROVIDED AT PS&E REVIEW



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

SUMMARY TABLE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	D6	D7

618.0002.0000 – SEEDING					
SHEET	FROM STATION	TO STATION	OFFSET	WEIGHT (LB)	REMARKS
F1	"ER" 504+50	"ER" 509+00	LT/RT	10.1	
F2	"ER" 509+00	"ER" 514+50	LT/RT	7.7	
F3	"ER" 514+50	"ER" 519+50	LT/RT	23.8	
F4	"ER" 519+50	"ER" 523+60	LT/RT	4.7	
F5	"NX" 604+53	"NX" 608+00	LT/RT	29.7	
F6	"NX" 608+00	"NX" 611+00	LT/RT	18.4	
F7	"V" 201+00	"V" 204+42	LT/RT	33.2	
F8	"NE" 801+06	"NE" 805+50	LT/RT	18.0	
F9	"NE" 805+50	"NE" 810+27	LT/RT	32.3	
F10	"GSF" 983+84	"GSF" 988+00	LT	8.7	
F11	"GSF" 988+00	"GSF" 993+25	LT	24.6	
F12	"GSF" 993+25	"GSF" 998+50	LT	35.1	
F13	"GSF" 998+50	"GSF" 1003+75	LT	24.5	
F14	"GSF" 1003+75	"GSF" 1009+00	LT	11.0	
F16	"ERW" 701+17	"ERW" 706+25	LT/RT	13.8	
F17	"ERW" 706+25	"ERW" 711+50	LT/RT	36.0	
F19	"SX" 800+75	"SX" 805+08	LT/RT	47.9	
TOTAL:				379.5	LB
PAY ITEM QUANTITY:				380	LB

620.0001.0000 – TOPSOIL					
SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS
F1	"ER" 504+50	"ER" 509+00	LT/RT	749.1	
F2	"ER" 509+00	"ER" 514+50	LT/RT	567.5	
F3	"ER" 514+50	"ER" 519+50	LT/RT	1,761.7	
F4	"ER" 519+50	"ER" 523+60	LT/RT	345.3	
F5	"NX" 604+53	"NX" 608+00	LT/RT	2,201.6	
F6	"NX" 608+00	"NX" 611+00	LT/RT	1,361.0	
F7	"V" 201+00	"V" 204+42	LT/RT	2,459.4	
F8	"NE" 801+06	"NE" 805+50	LT/RT	1,330.5	
F9	"NE" 805+50	"NE" 810+27	LT/RT	2,393.0	
F10	"GSF" 983+84	"GSF" 988+00	LT	647.3	
F11	"GSF" 988+00	"GSF" 993+25	LT	1,824.5	
F12	"GSF" 993+25	"GSF" 998+50	LT	2,599.5	
F13	"GSF" 998+50	"GSF" 1003+75	LT	1,812.4	
F14	"GSF" 1003+75	"GSF" 1009+00	LT	817.7	
F16	"ERW" 701+17	"ERW" 706+25	LT/RT	1,019.9	
F17	"ERW" 706+25	"ERW" 711+50	LT/RT	2,668.2	
F19	"SX" 800+75	"SX" 805+08	LT/RT	3,548.5	
TOTAL:				28,107.1	SY
PAY ITEM QUANTITY:				28,200	SY

618.0003.0000 – WATER FOR SEEDING					
SHEET	FROM STATION	TO STATION	OFFSET	VOLUME (MGAL)	REMARKS
F1	"ER" 504+50	"ER" 509+00	LT/RT	6.74	
F2	"ER" 509+00	"ER" 514+50	LT/RT	5.11	
F3	"ER" 514+50	"ER" 519+50	LT/RT	15.85	
F4	"ER" 519+50	"ER" 523+60	LT/RT	3.11	
F5	"NX" 604+53	"NX" 608+00	LT/RT	19.81	
F6	"NX" 608+00	"NX" 611+00	LT/RT	12.25	
F7	"V" 201+00	"V" 204+42	LT/RT	22.13	
F8	"NE" 801+06	"NE" 805+50	LT/RT	11.97	
F9	"NE" 805+50	"NE" 810+27	LT/RT	21.54	
F10	"GSF" 983+84	"GSF" 988+00	LT	5.83	
F11	"GSF" 988+00	"GSF" 993+25	LT	16.42	
F12	"GSF" 993+25	"GSF" 998+50	LT	23.40	
F13	"GSF" 998+50	"GSF" 1003+75	LT	16.31	
F14	"GSF" 1003+75	"GSF" 1009+00	LT	7.36	
F16	"ERW" 701+17	"ERW" 706+25	LT/RT	9.18	
F17	"ERW" 706+25	"ERW" 711+50	LT/RT	24.01	
F19	"SX" 800+75	"SX" 805+08	LT/RT	31.94	
TOTAL:				252.96	MGAL
PAY ITEM QUANTITY:				253	MGAL

PIH
REVIEW
SEPT 2025

PROJECT
PROFESSIONAL SEAL

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

SUMMARY TABLE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	D7	D7

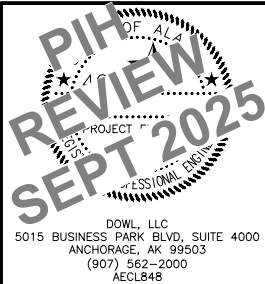
634.0001.0000 – GEOGRID, STABILIZATION, CLASS 1						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS
F1	"ER" 505+42	LT/RT	"ER" 505+74	LT/RT	122.5	TRUCK APRON
F1	"ER" 505+49	LT/RT	"ER" 505+56	LT/RT	74.2	MEDIAN
F1	"ER" 506+05	29.8' RT	"ER" 507+00	66.9' RT	62.6	BUFFER
F1	"ER" 506+06	37.6' LT	"ER" 507+61	85.5' LT	206.7	BUFFER
F1	"ER" 506+30	45.0' LT	"ER" 507+43	72.2' LT	377.4	TRUCK APRON
F1	"ER" 506+51	LT/RT	"ER" 507+32	LT/RT	210.0	TRUCK APRON
F1	"ER" 506+71	LT/RT	"ER" 507+19	LT/RT	424.0	CENTER ISLAND
F1	"ER" 507+58	LT/RT	"ER" 508+33	LT/RT	32.3	TRUCK APRON
F1	"ER" 507+71	LT/RT	"ER" 508+86	LT/RT	382.1	CENTER ISLAND
F1	"ER" 505+42	LT/RT	"ER" 505+74	LT/RT	27.3	TRUCK APRON
F1	"ER" 506+30	45.0' LT	"ER" 507+43	72.2' LT	15.6	TRUCK APRON
F1	"ER" 506+51	LT/RT	"ER" 507+32	LT/RT	291.7	TRUCK APRON
F1	"ER" 507+58	LT/RT	"ER" 508+33	LT/RT	199.7	TRUCK APRON
F1, F18	"SX" 800+38	LT/RT	"SX" 802+04	LT/RT	659.3	MEDIAN
F2	"ER" 512+23	16.0' LT	"ER" 512+95	74.1' LT	50.2	TRUCK APRON
F2	"ER" 512+66	LT/RT	"ER" 514+48	LT/RT	80.4	CENTER ISLAND
F2	"ER" 513+96	91.2' LT	"ER" 514+56	61.0' LT	767.7	BUFFER
F2	"ER" 512+23	16.0' LT	"ER" 512+95	74.1' LT	24.0	TRUCK APRON
F2–F3	"ER" 512+93	22.7' LT	"ER" 514+84	40.4' LT	171.1	MEDIAN
F2–F3	"ER" 513+76	LT/RT	"ER" 514+65	LT/RT	203.7	TRUCK APRON
F2–F3	"ER" 513+76	LT/RT	"ER" 514+65	LT/RT	62.1	TRUCK APRON
F3	"ER" 514+66	61.0' LT	"ER" 515+12	86.8' LT	715.6	BUFFER
F3	"ER" 514+86	62.1' LT	"ER" 515+11	79.5' LT	307.4	TRUCK APRON
F3	"ER" 515+09	LT/RT	"ER" 515+95	LT/RT	289.7	TRUCK APRON
F3	"ER" 515+24	LT/RT	"ER" 515+69	LT/RT	56.9	CENTER ISLAND
F3	"ER" 514+86	62.1' LT	"ER" 515+11	79.5' LT	9.3	TRUCK APRON
F3	"ER" 515+09	LT/RT	"ER" 515+95	LT/RT	411.7	TRUCK APRON
F3	"ER" 516+36	46.0' LT	"ER" 516+79	30.0' LT	7.6	TRUCK APRON
F6	"NX" 611+01	2.0' RT	"NX" 611+50	2.0' RT	7.0	TRUCK APRON
TOTAL:					6,249.8	SY
PAY ITEM QUANTITY:					6,250	SY

631.0002.0001 – GEOTEXTILE, EROSION CONTROL, CLASS 1						
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS
Q1	"ERW" 711+58	89.8' LT	"ERW" 711+58	89.8' LT	2.2	
Q1	"ERW" 711+32	39.6' LT	"ERW" 711+32	39.6' LT	2.2	
Q1	"ER" 508+18	85.5' LT	"ER" 508+18	85.5' LT	2.2	
Q1	"ERW" 717+45	39.0' RT	"ERW" 717+51	40.1' RT	2.2	
Q2	"NX" 609+98	5.0' RT	"NX" 609+98	5.0' RT	2.2	
Q2	"ERW" 723+13	77.8' RT	"ERW" 723+21	85.9' RT	4.1	
Q2	"ERW" 717+76	60.6' RT	"ERW" 717+73	66.2' RT	2.2	
Q4	"V" 202+45	91.1' RT	"V" 202+45	91.1' RT	2.2	
Q4	"V" 202+44	42.1' LT	"V" 202+65	47.6' LT	9.2	
Q1	"ERW" 713+50	13.7' RT	"ERW" 713+50	37.4' RT	7.9	
Q1	"ERW" 716+04	13.0' RT	"ERW" 716+10	40.3' RT	9.3	
Q4	"NE" 801+43	18.1' LT	"NE" 801+43	18.1' LT	2.2	
Q10	"SX" 801+80	27.1' RT	"SX" 801+79	48.7' RT	7.3	
Q2	"ERW" 724+84	23.2' LT	"ERW" 725+06	41.1' LT	12.8	
TOTAL:					68.2	SY
PAY ITEM QUANTITY:					69	SY

661.0002.0000 – LOAD CENTER, TYPE 1A				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
HL15	"ER" 506+37	98.2' LT	1	
HL15	"ER" 506+42	102.6' LT	1	
HL16	"ER" 517+00	67.7' LT	1	
TOTAL:			3	EACH
PAY ITEM QUANTITY:			3	EACH

661.0005.0000 – MODIFY LOAD CENTER				
SHEET	STATION	OFFSET	QUANTITY (EACH)	REMARKS
HL16	--	--	1	
TOTAL:			1	EACH
PAY ITEM QUANTITY:			1	EACH

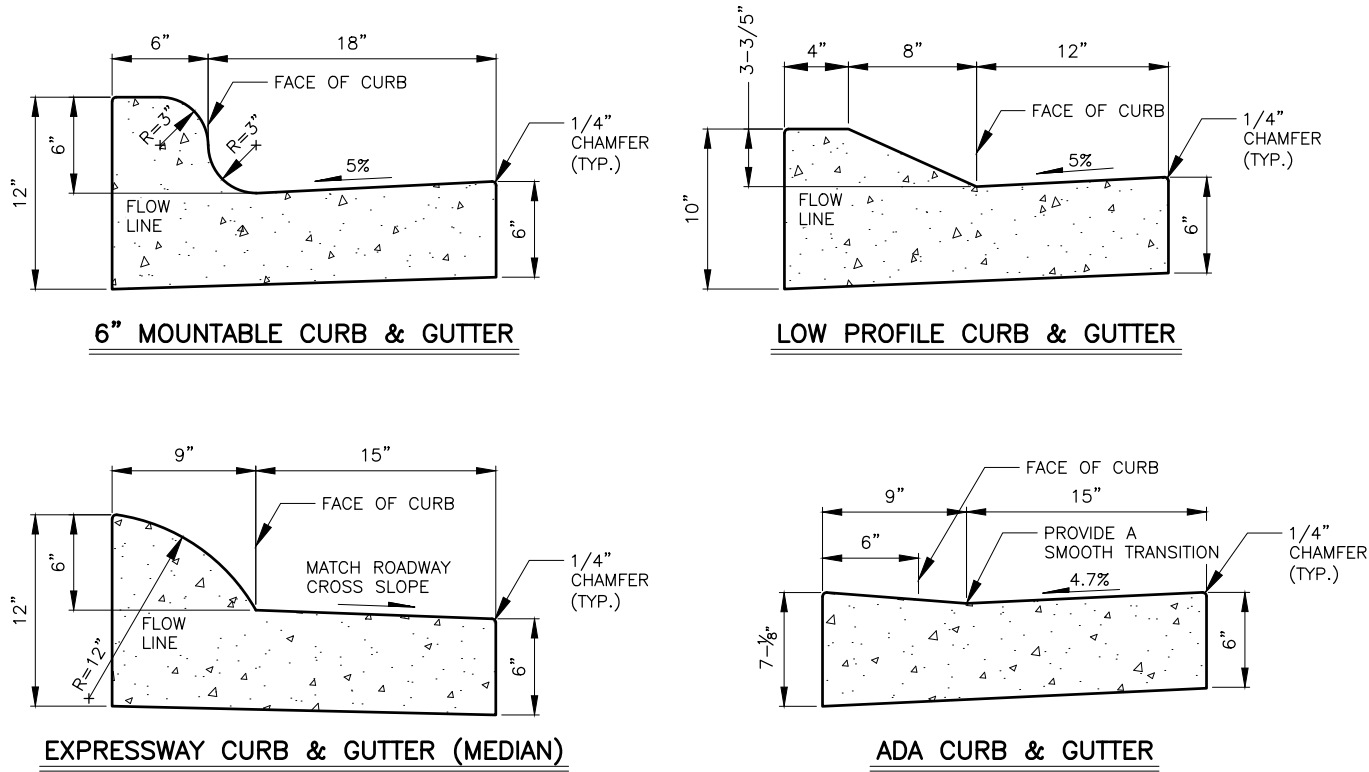
NOTE:
Q–SHEETS TO BE PROVIDED AT PS&E REVIEW



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

SUMMARY TABLE

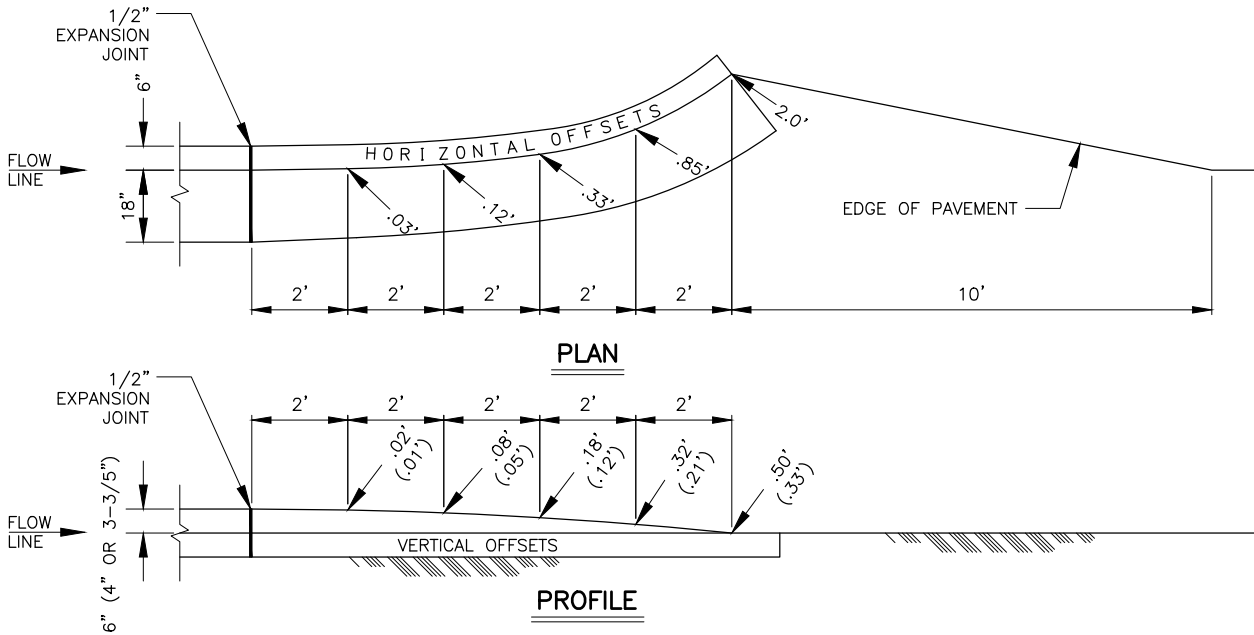
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	E1	E13



CURBS

CURB NOTES:

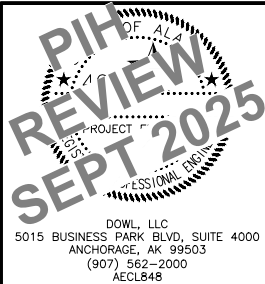
1. MOUNTABLE, DEPRESSED, ROLLED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPER ELEVATED AREAS.
2. USE THE ADA CURB & GUTTER FOR ALL CURB RAMPS.



CURB & GUTTER TERMINATION TRANSITIONS

TERMINATION NOTES:

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



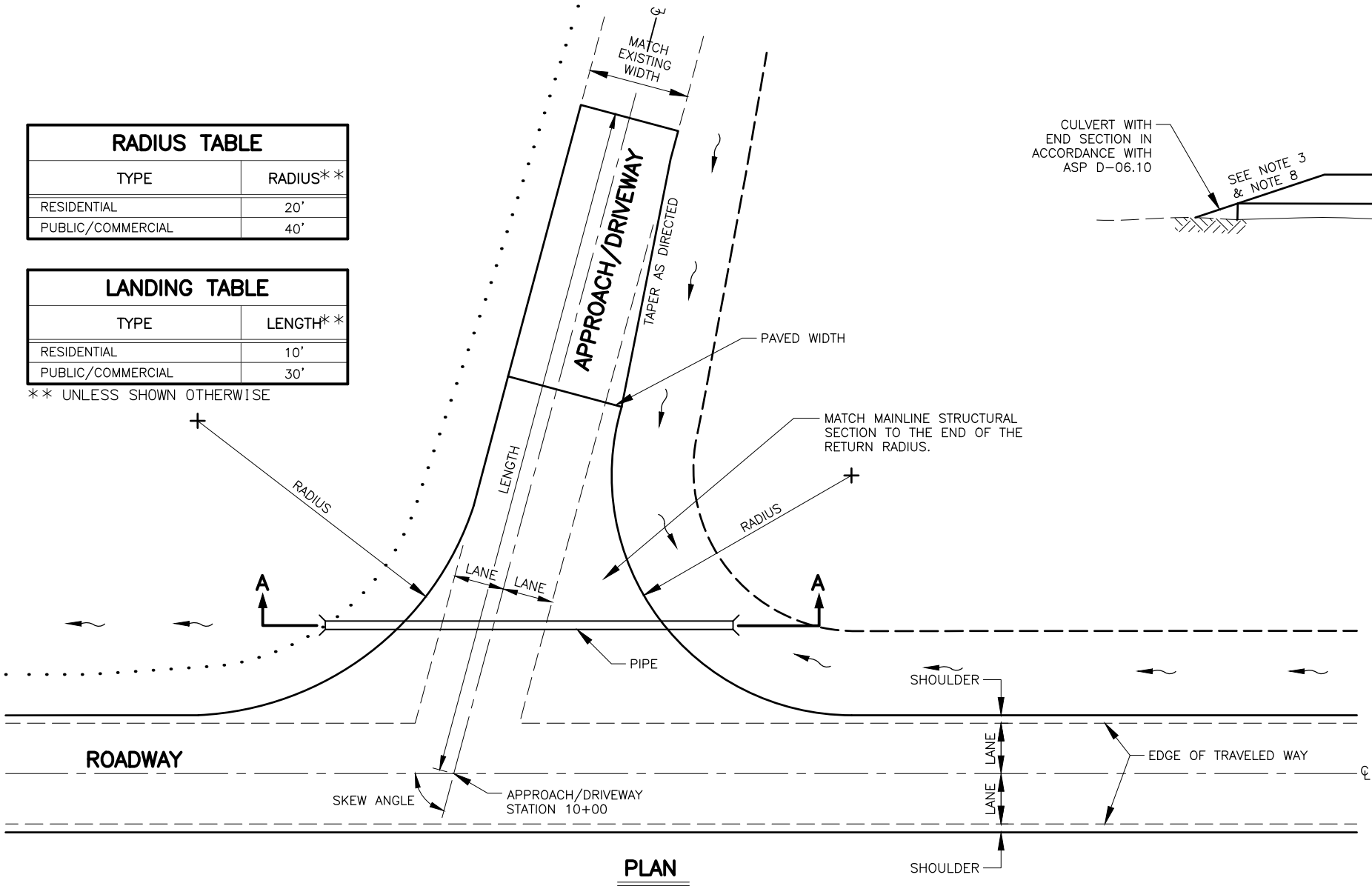
NOTES:

1. SEE APPROACH AND DRIVEWAY SUMMARY FOR STATION, CENTER LINE REFERENCE, WIDTH, RADIUS, SKEW ANGLE, AND TYPE, ADJUST AS DIRECTED BY THE ENGINEER. ALL RADII ARE TO EDGE OF PAVEMENT. SEE THIS SHEET AND GRADING PLANS.
2. UNLESS OTHERWISE INDICATED, PAVE TO FURTHEST RADIUS RETURN OR 10' BEHIND PATHWAY, WHICHEVER IS GREATER.
3. SEE PUBLIC APPROACH AND DRIVEWAY TYPICAL SECTIONS THIS SHEET.
4. VERTICAL CURVE REQUIREMENTS:
CREST – 2 ½ INCH MAXIMUM IN A 10 FOOT CHORD
SAG – 2 INCH MAXIMUM IN A 10 FOOT CHORD
5. SEE PIPE SUMMARY FOR APPROACH AND DRIVEWAY CULVERTS ON PLAN & PROFILE SHEETS.
6. WHEN PATHWAY IS PRESENT, MAXIMUM LANDING GRADE IS TO BE ±1.8%, BUT NOT MORE THAN 2.0% MAXIMUM PER ADA.
7. ACCESS GRADE MAX. 15%
8. FOR APPROACHES WARP FORESLOPE TO MATCH THE THROUGH ROADWAY FORESLOPE WITHIN HALF THE LENGTH OF THE RETURN RADIUS. FOR DRIVEWAYS AND WHERE PATHWAY IS NOT PRESENT WARP FORESLOPE TO THE FULL LENGTH OF THE RETURN RADIUS OR 24' FROM EDGE OF TRAVELED WAY EXTENDED, WHICHEVER IS LESS. ADJUST AS DIRECTED BY THE ENGINEER.

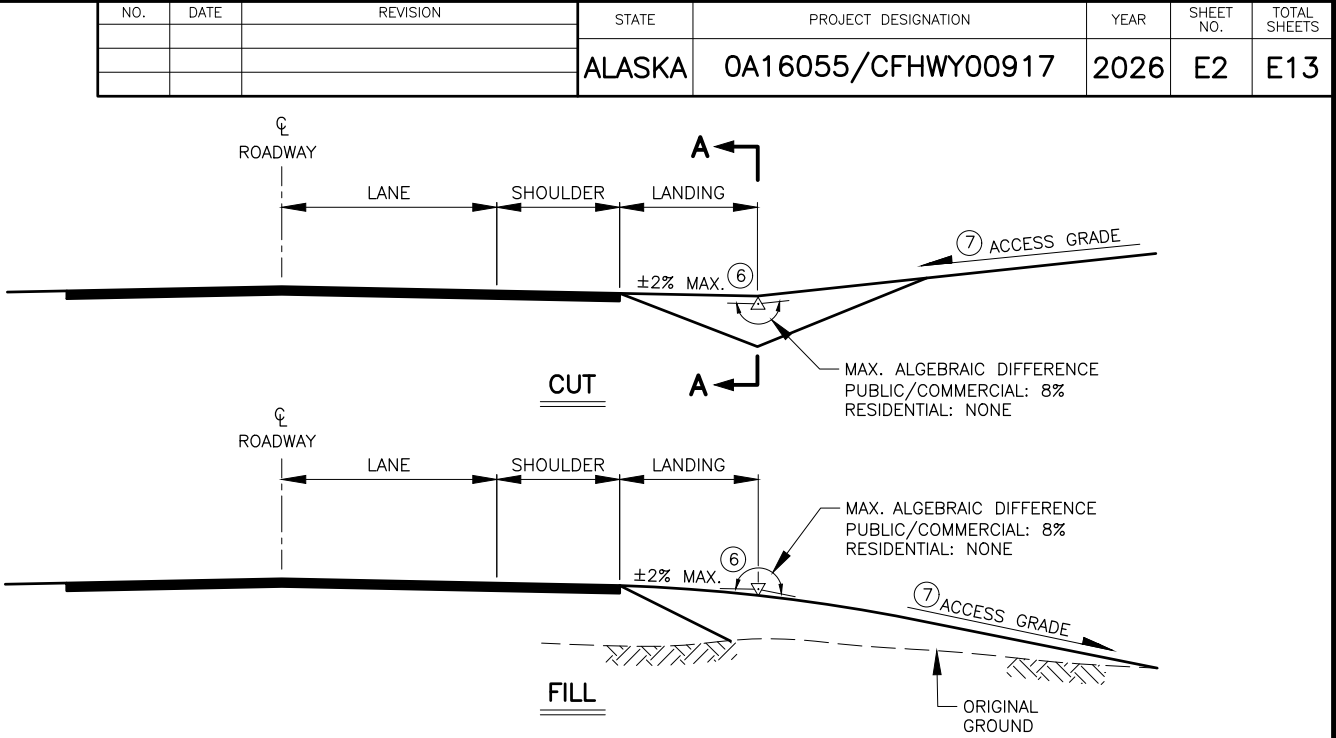
RADIUS TABLE	
TYPE	RADIUS**
RESIDENTIAL	20'
PUBLIC/COMMERCIAL	40'

LANDING TABLE	
TYPE	LENGTH**
RESIDENTIAL	10'
PUBLIC/COMMERCIAL	30'

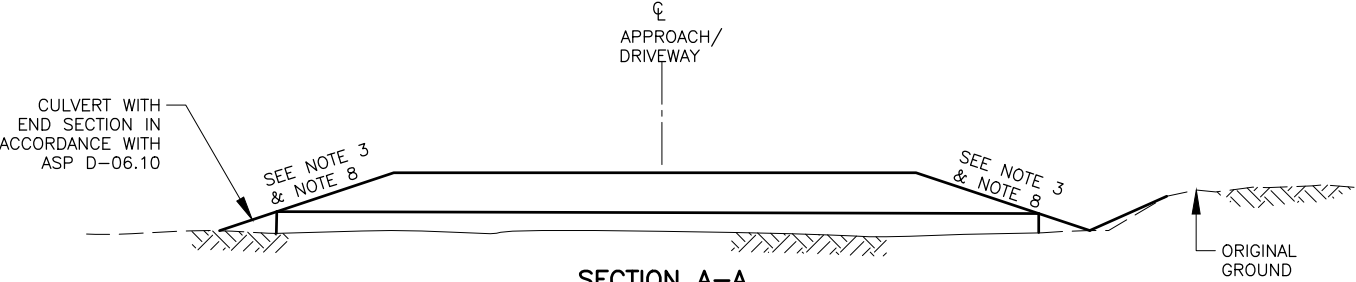
** UNLESS SHOWN OTHERWISE



PLAN



PROFILES



SECTION A-A

TYPICAL



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

UNCURBED APPROACH DETAILS

DESIGNED BY
CHECKED BY
DRAFTED BY

AZ
ST
RL

SCALE

AS SHOWN

TIME

9/18/2025 1:01 PM

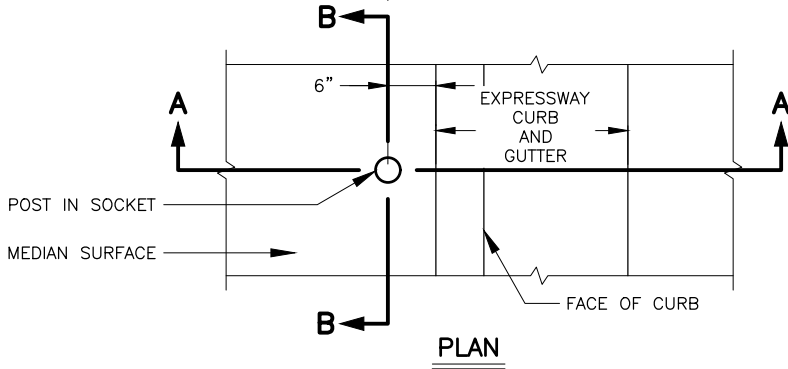
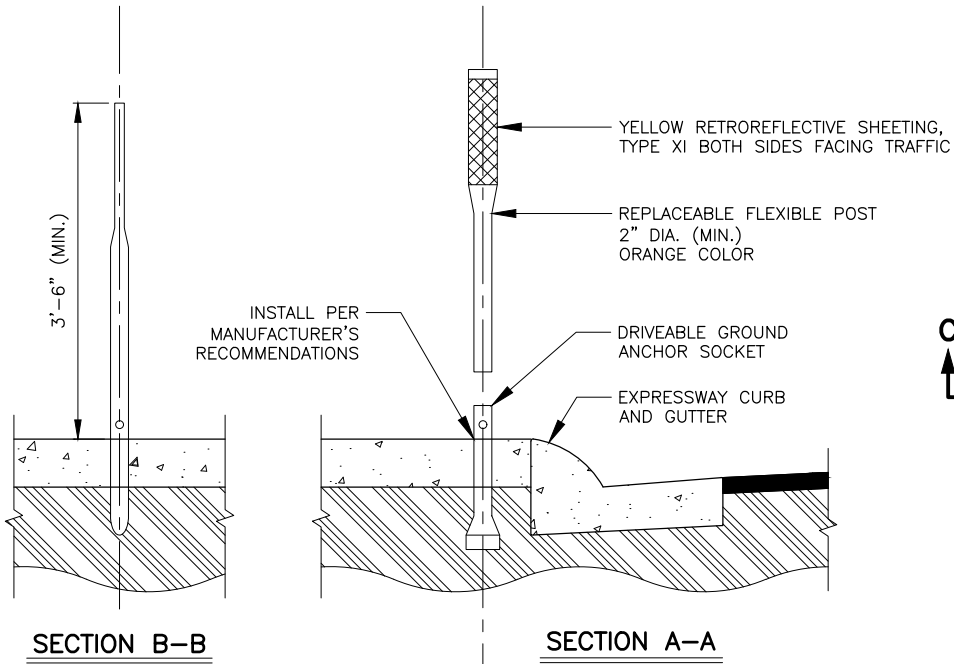
DATE

9/18/2025 1:01 PM

DRAWING LOCATION

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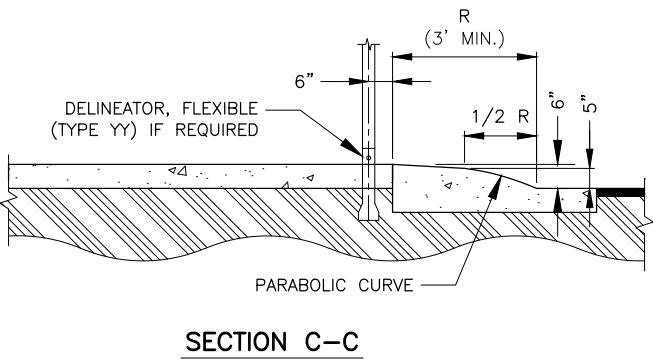
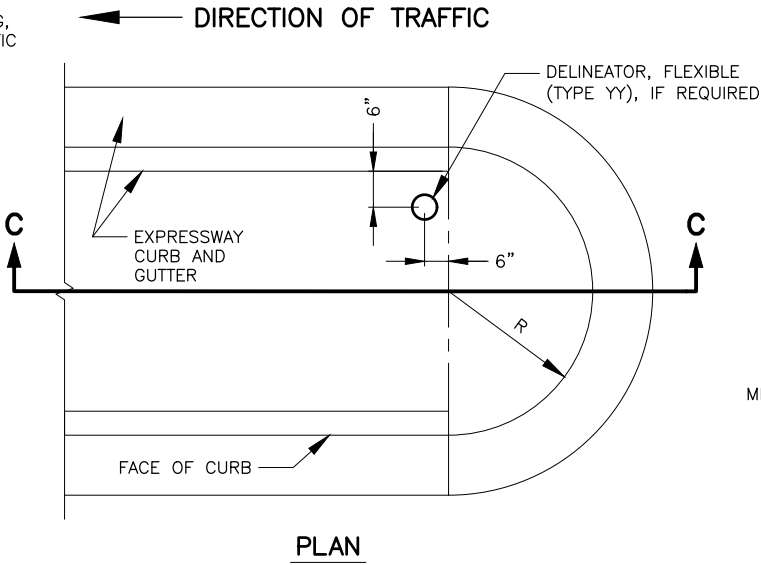
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	E3	E13



FLEXIBLE DELINEATOR

DELINEATOR NOTES:

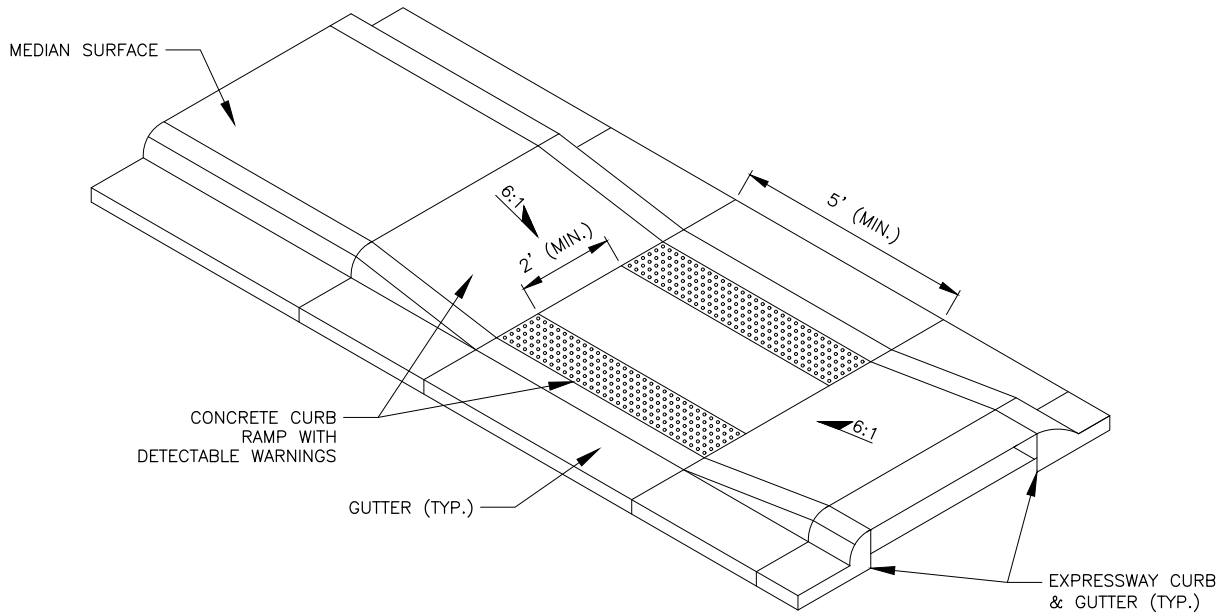
1. INSTALL DELINEATORS WHERE SHOWN IN THE SUMMARY TABLE, OR AS DIRECTED BY THE ENGINEER.
2. CENTER POINT OF THE DELINEATOR SHALL BE 6 INCHES FROM THE BACK OF CURB.
3. WHERE DELINEATORS ARE SET IN CONCRETE PAVEMENT, PLACE THEM IN EXPANSION JOINTS.



SLOPED MEDIAN NOSE

SLOPED MEDIAN NOTES:

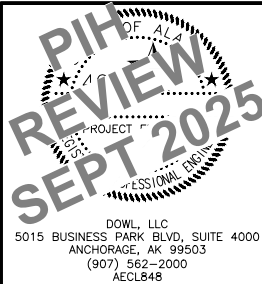
1. PAINT ALL SLOPED MEDIAN NOSES WITH YELLOW REFLECTORIZED PAINT. PAINT FOR NOSES IS SUBSIDIARY TO 670 ITEMS.
2. THE RADIUS DIMENSIONS PROVIDED IN THE PLANS ARE MEASURED TO LIP OF CURB. CONTRACTOR WILL NEED TO CALCULATE THE VALUE OF "R" FROM RADIUS DIMENSION AND CURB GEOMETRY.



RAISED MEDIAN CURB RAMP

RAISED MEDIAN NOTES:

1. INSTALL DETECTABLE WARNING TILES IN ACCORDANCE WITH STD. DWG I-21.



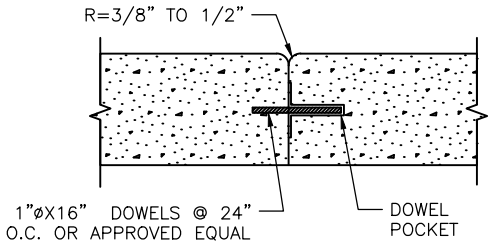
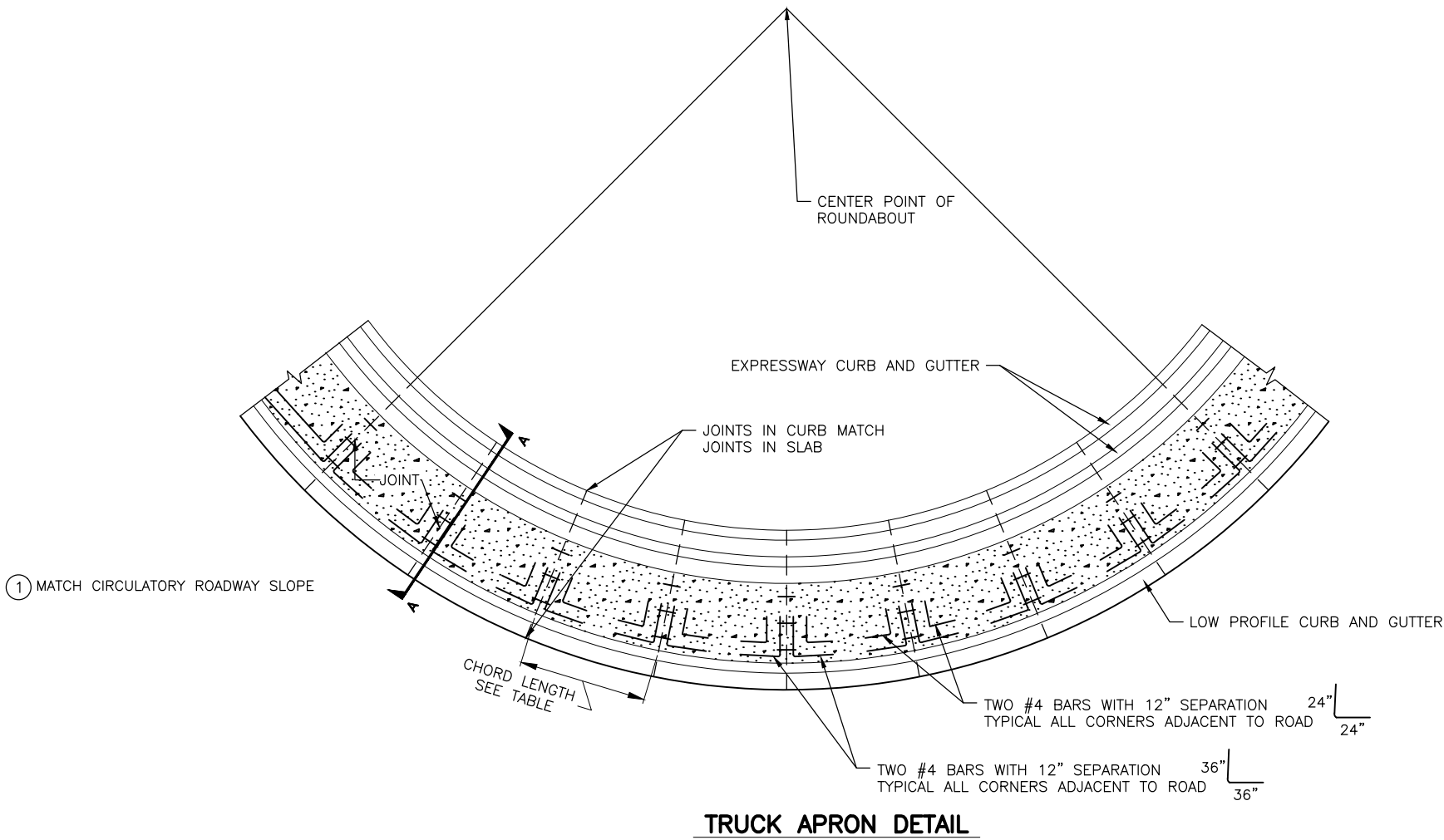
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

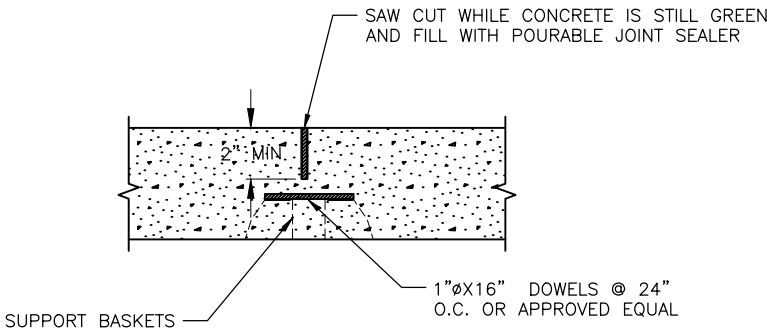
SLOPED MEDIAN NOSE DETAILS

DESIGNED BY
CHECKED BY
DRAFTED BY
SCALE
AS SHOWN
DATE
9/18/2025 1:01 PM
TIME
DRAWING LOCATION
C:\DOWL_PW\0419381\00917_E01_DTL.DWG

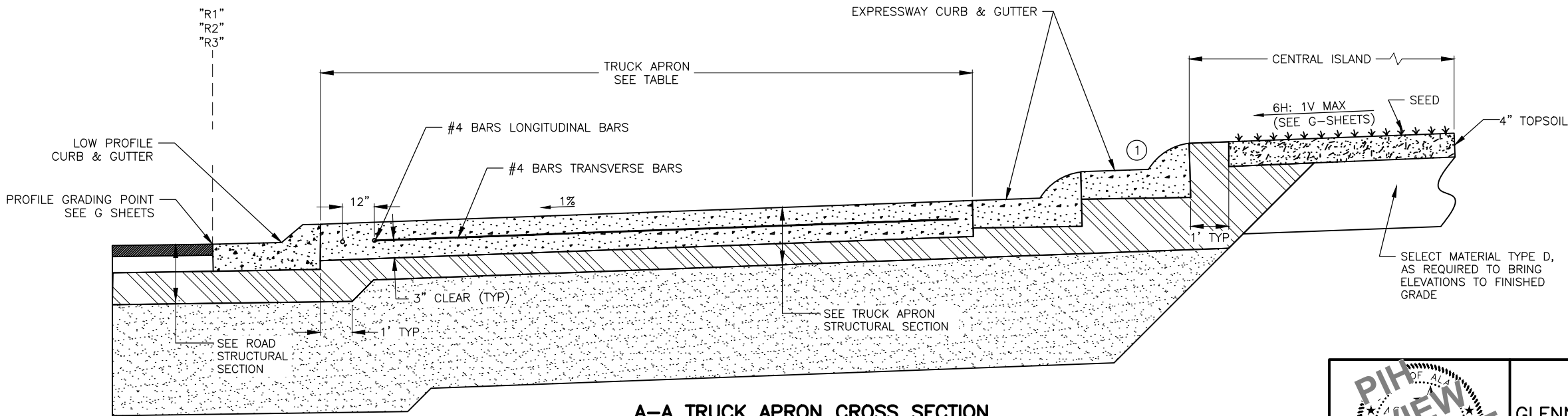
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	E4	E13



CONSTRUCTION JOINT DETAIL

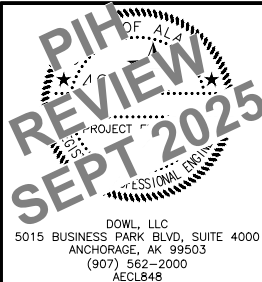


CONTROL JOINT DETAIL



A-A TRUCK APRON CROSS SECTION

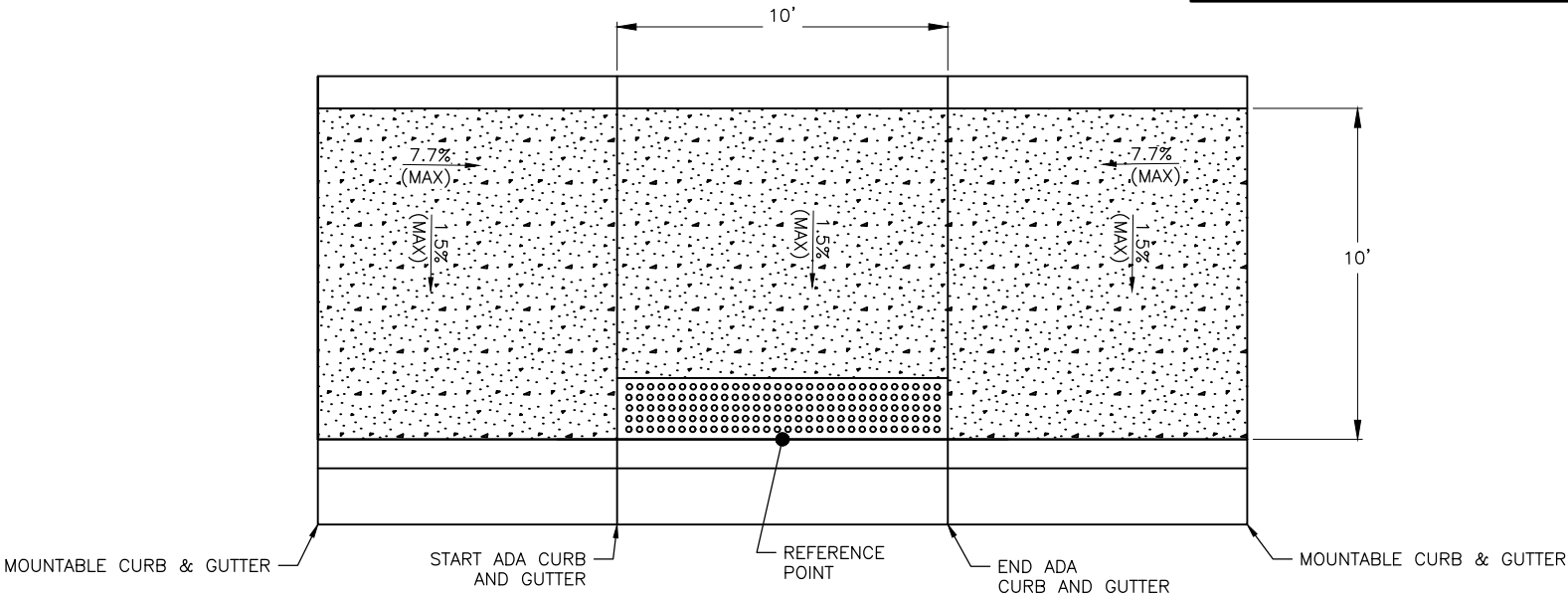
1 CONSTRUCT STACKED EXPRESSWAY CURB AND GUTTER ONLY WITHIN ROUNDABOUT CENTRAL ISLAND TRUCK APRON. ALL TRUCK APRONS WITHIN ROUNDABOUT APPROACHES CONTAIN A SINGLE EXPRESSWAY CURB AND GUTTER ADJACENT TO STAMPED MEDIAN CONCRETE. FOR ROUNDABOUT APPROACHES AND MEDIAN STRUCTURAL SECTIONS, SEE SHEET B1



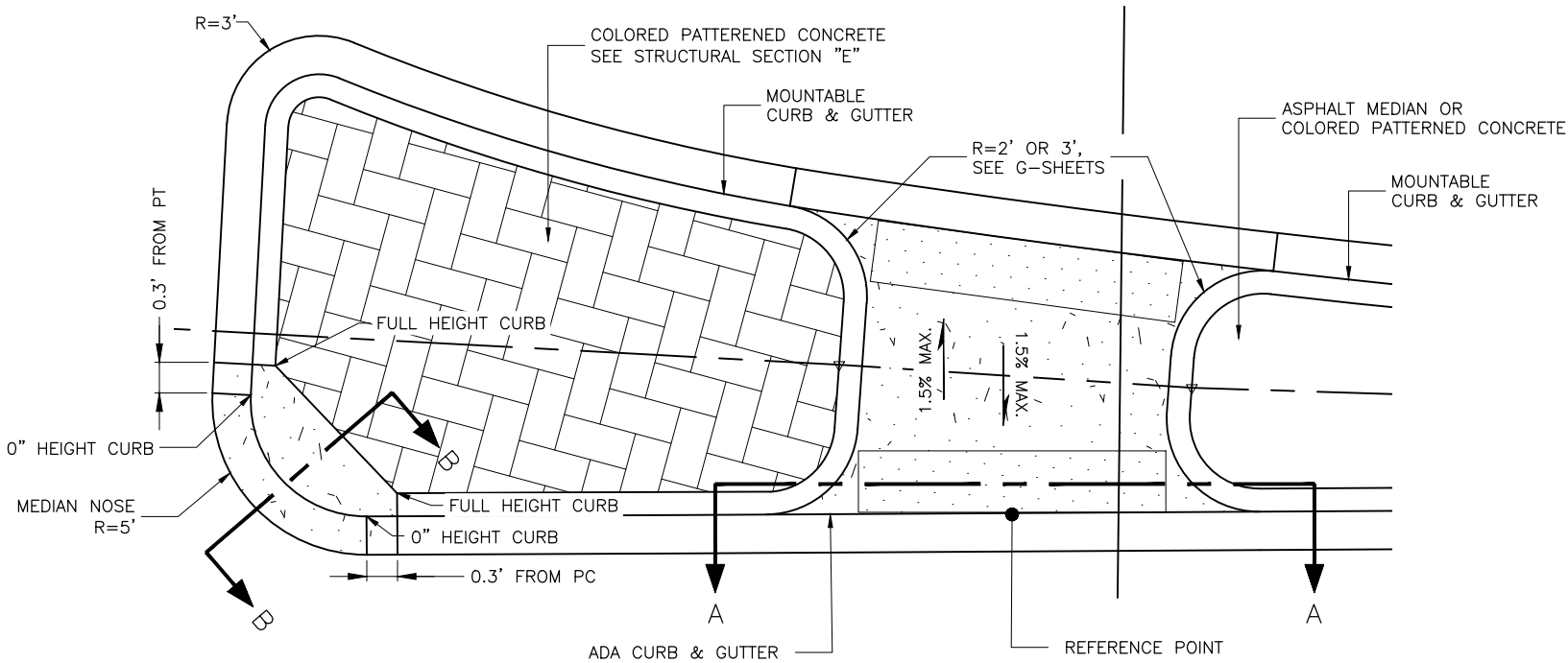
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS
ROUNDABOUT MISCELLANEOUS
DETAILS

DESIGNED BY
CHECKED BY
DRAFTED BY
SCALE
AS SHOWN
TIME
1:01 PM
DATE
9/18/2025
DRAWING LOCATION
C:\DOWL_PW\0419381\00917_E01_DTL.DWG

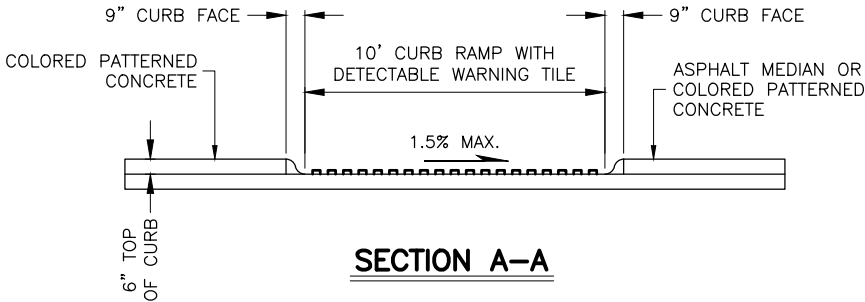
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			ALASKA	0A16055/CFHWY00917	2026	E5	E13



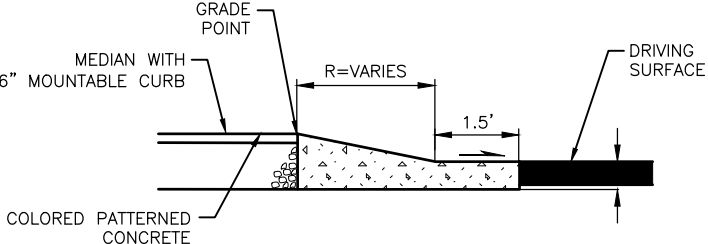
10' WIDE PARALLEL CURB RAMP DETAIL



ROUNDAABOUT MEDIAN CURB RAMP DETAIL



SECTION A-A



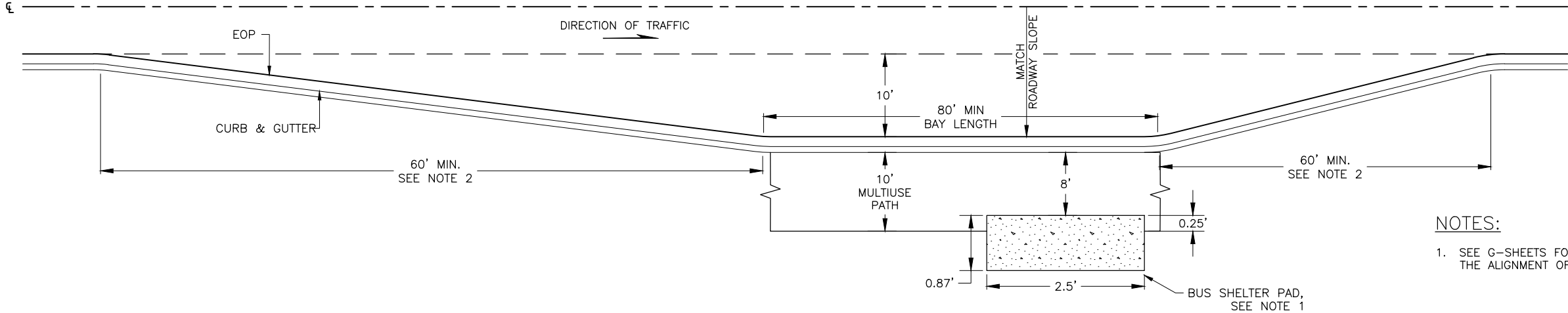
SECTION B-B

- NOTES:
- MEDIAN NOSE SHALL BE PAINTED WITH YELLOW REFLECTORIZED PAINT.
 - MONOLITHIC POUR.
 - INSTALL MEDIAN NOSE PER SECTION 609 OF THE SPECIFICATIONS.

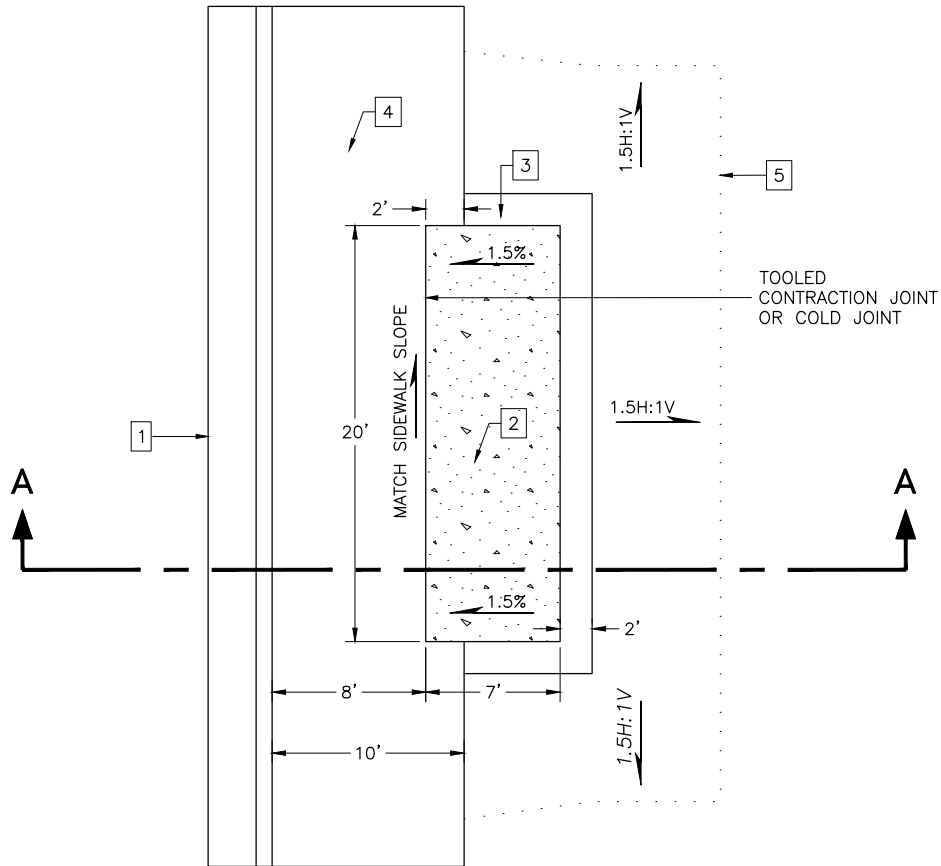


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS
ROUNDAABOUT MISCELLANEOUS
DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	E6	E13

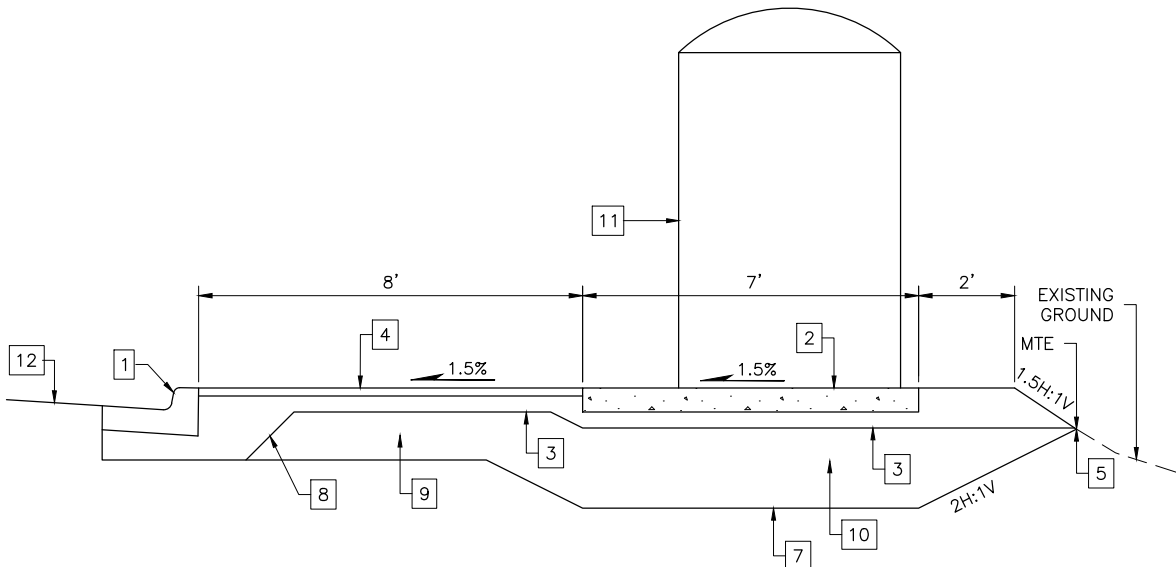


BUS PULLOUT DETAIL



PLAN

- NOTES # :
1. STANDARD CURB AND GUTTER
 2. CONCRETE SIDEWALK, 6" THICK
 3. 4" BED COURSE MATERIAL, GRADING D-1
 4. 2" ASPHALT SIDEWALK
 5. APPROXIMATE SLOPE LIMITS
 6. SEE F SHEETS FOR LOCATIONS OF NEW BUS STOP LANDINGS
 7. LIMITS OF EXCAVATION
 8. REGRADE AND RECOMPACT EXISTING BASE COURSE
 9. 12" SELECTED MATERIAL, TYPE D
 10. 20" SELECTED MATERIAL, TYPE B
 11. EXISTING BUS STOP SHELTER TO BE REINSTALLED BY _____
 12. ROADWAY (SEE B SHEETS FOR TYPICAL SECTION)

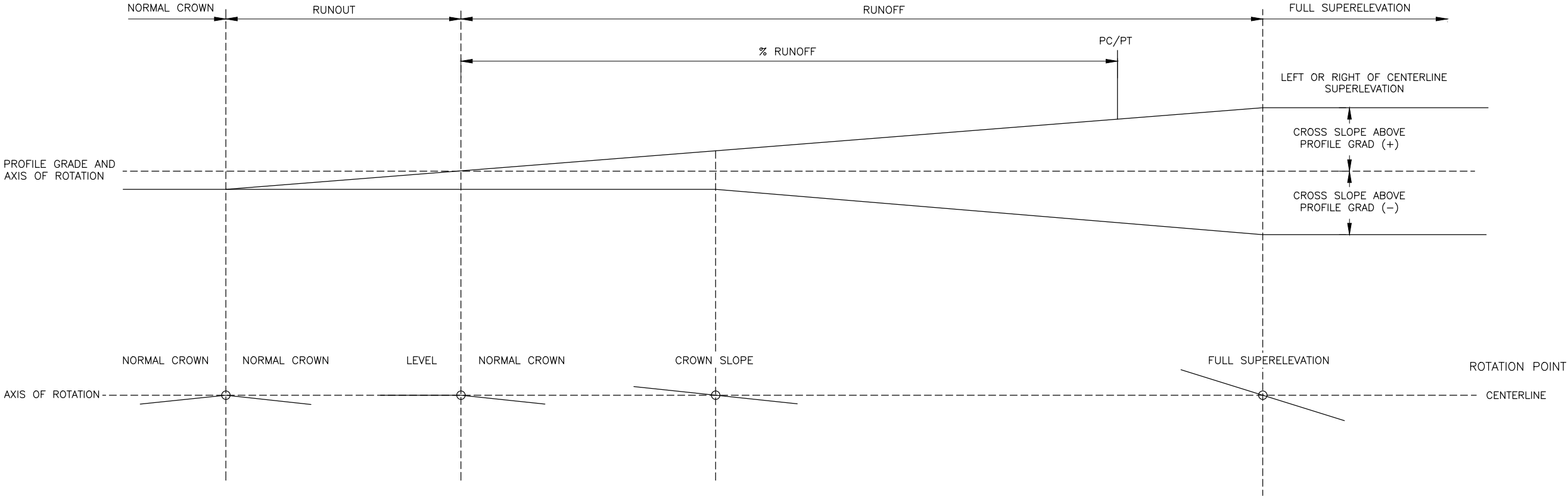


SECTION A-A
BUS STOP SHELTER PAD DETAIL



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**
**BUS PULLOUT & BUS
STOP SHELTER PAD
DETAILS**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	E7	E13



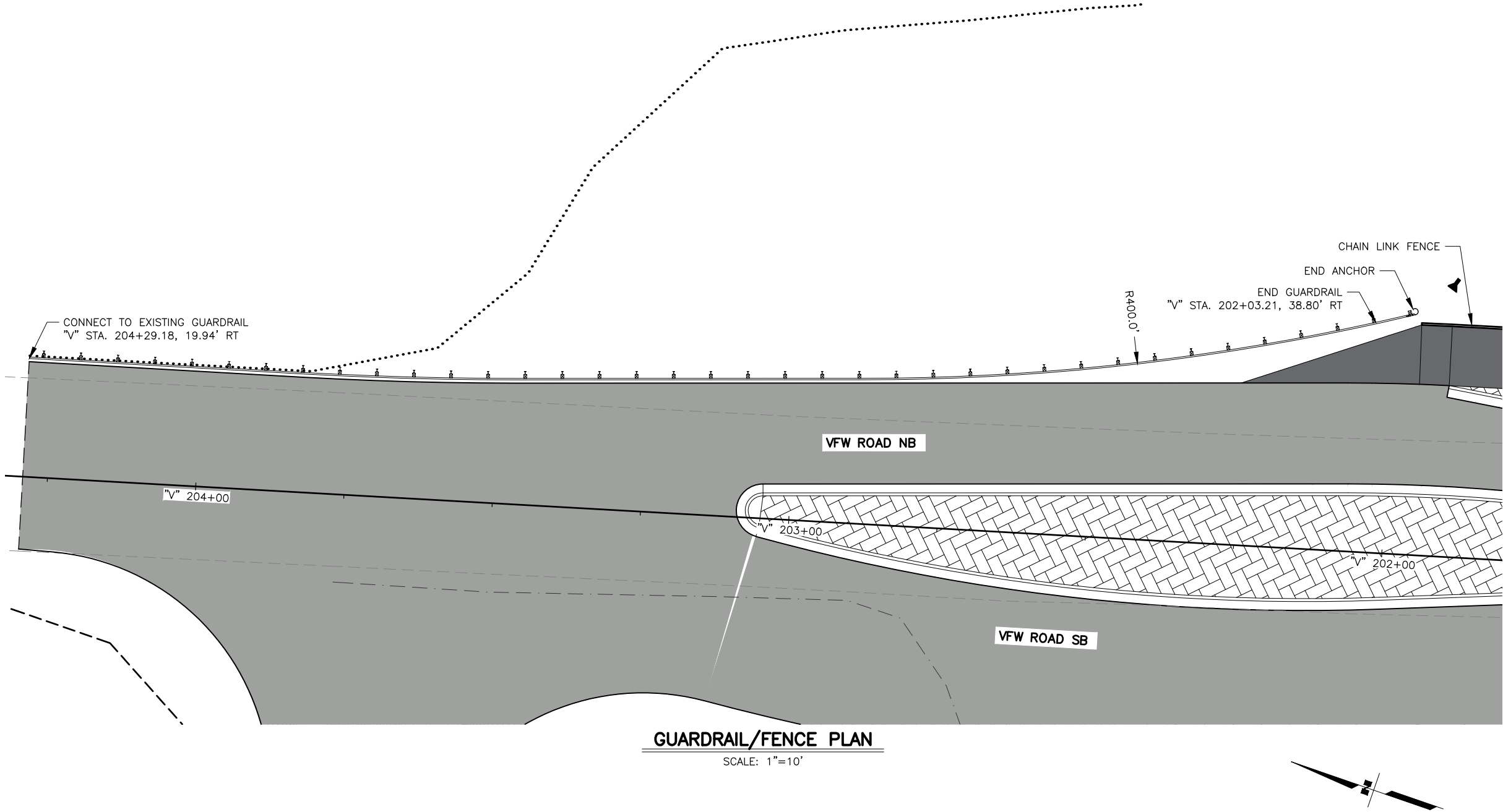
SUPERELEVATION TRANSITION

NOTES :

1. REFER TO PLAN AND PROFILE SHEETS FOR SUPERELEVATION VALUES AND SPECIAL CASES.
2. BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
3. % RUNOFF = PORTION OF RUNOFF ON TANGENT.
4. WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS
SUPERELEVATION TRANSITION



SHEET NO.	TOTAL SHEETS
E8	E13
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

THIS SHEET

EAGLE RIVER LOOP ROAD

GLENN HIGHWAY SOUTH

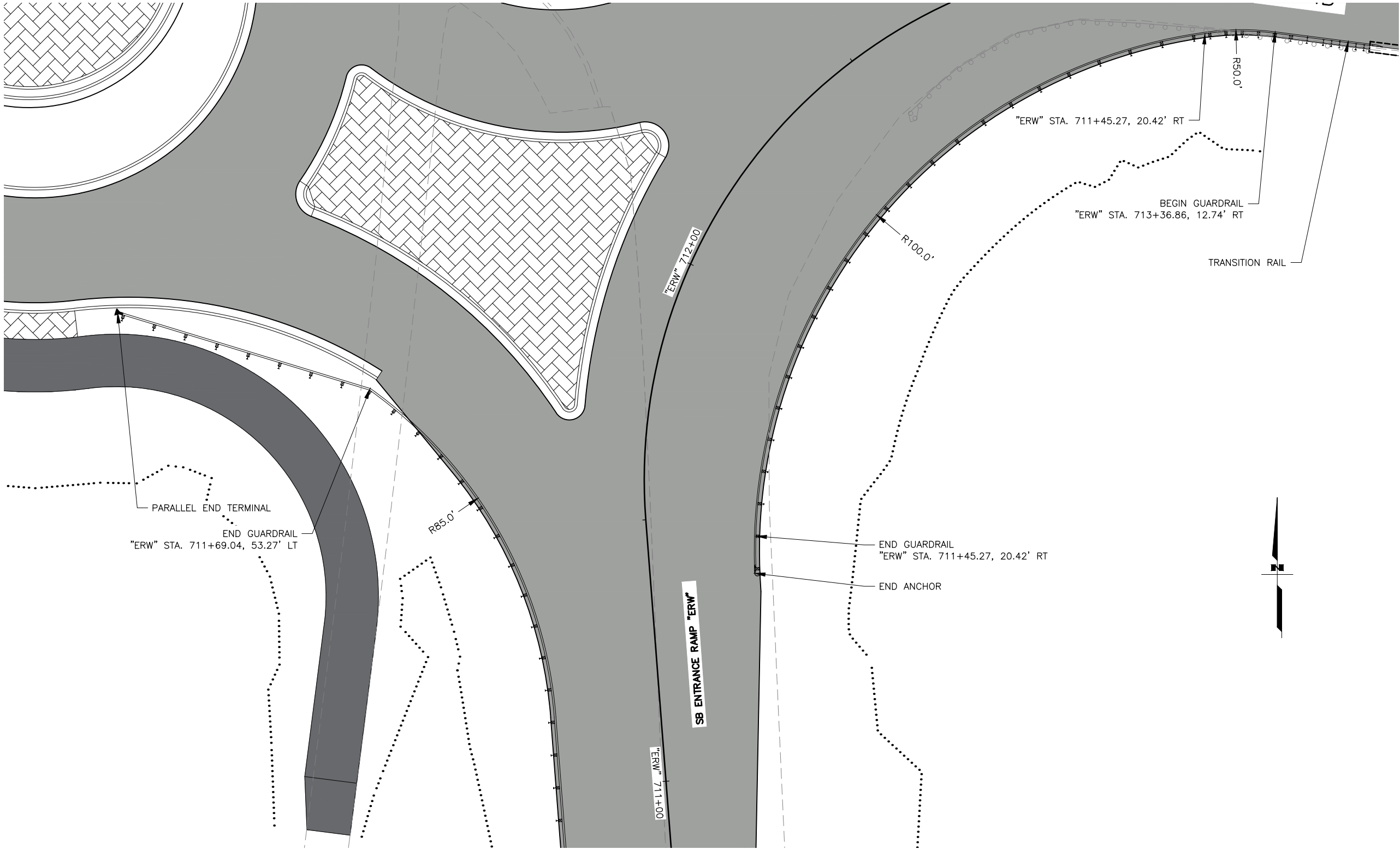
PIH REVIEW
SEPT 2025

PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

GUARDRAIL—FENCE
DETAILS

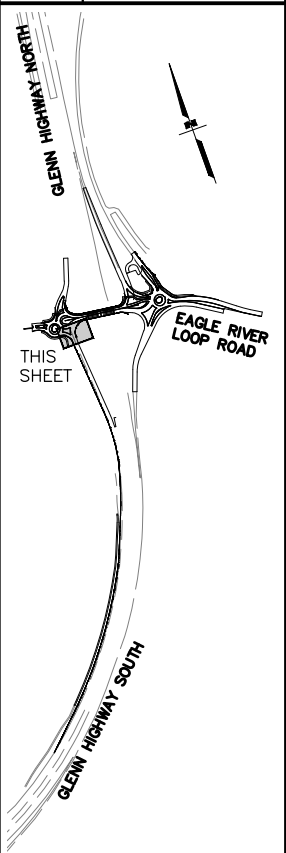


GUARDRAIL/FENCE PLAN

SCALE: 1"=10'

SHEET NO.	TOTAL SHEETS
E9	E13
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



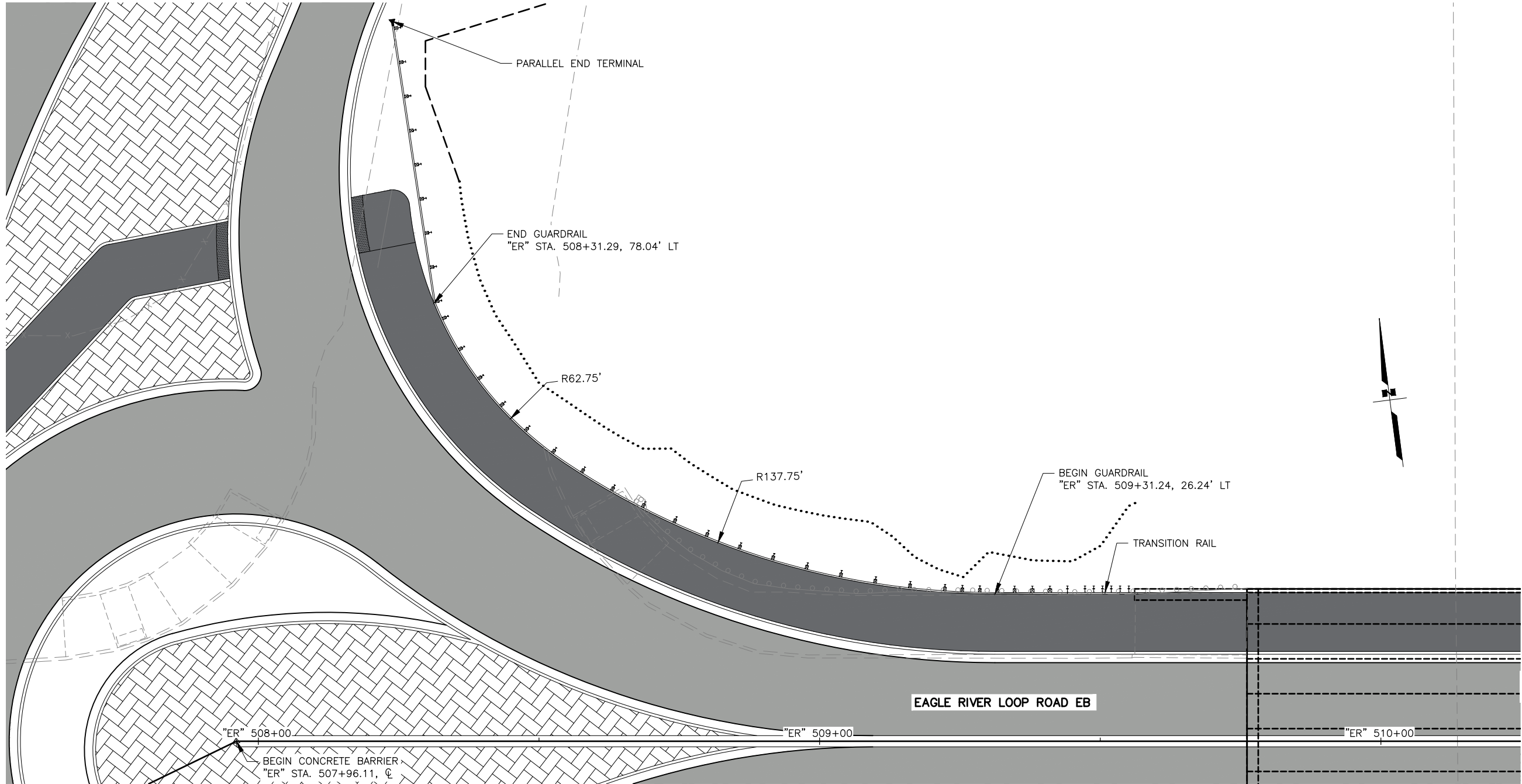
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

GUARDRAIL-FENCE
DETAILS



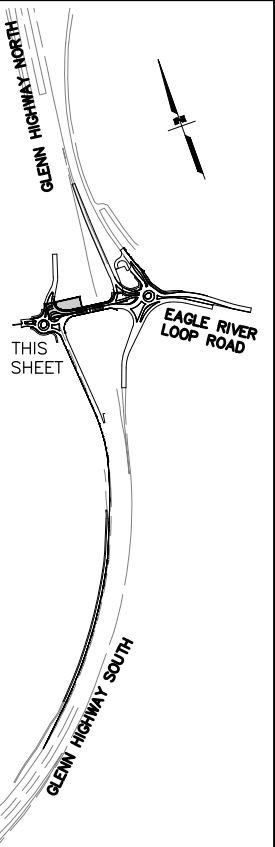
GUARDRAIL/FENCE PLAN

SCALE: 1"=10'

SHEET NO.	TOTAL SHEETS
E10	E13
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION
**0A16055/
CFHWY00917**

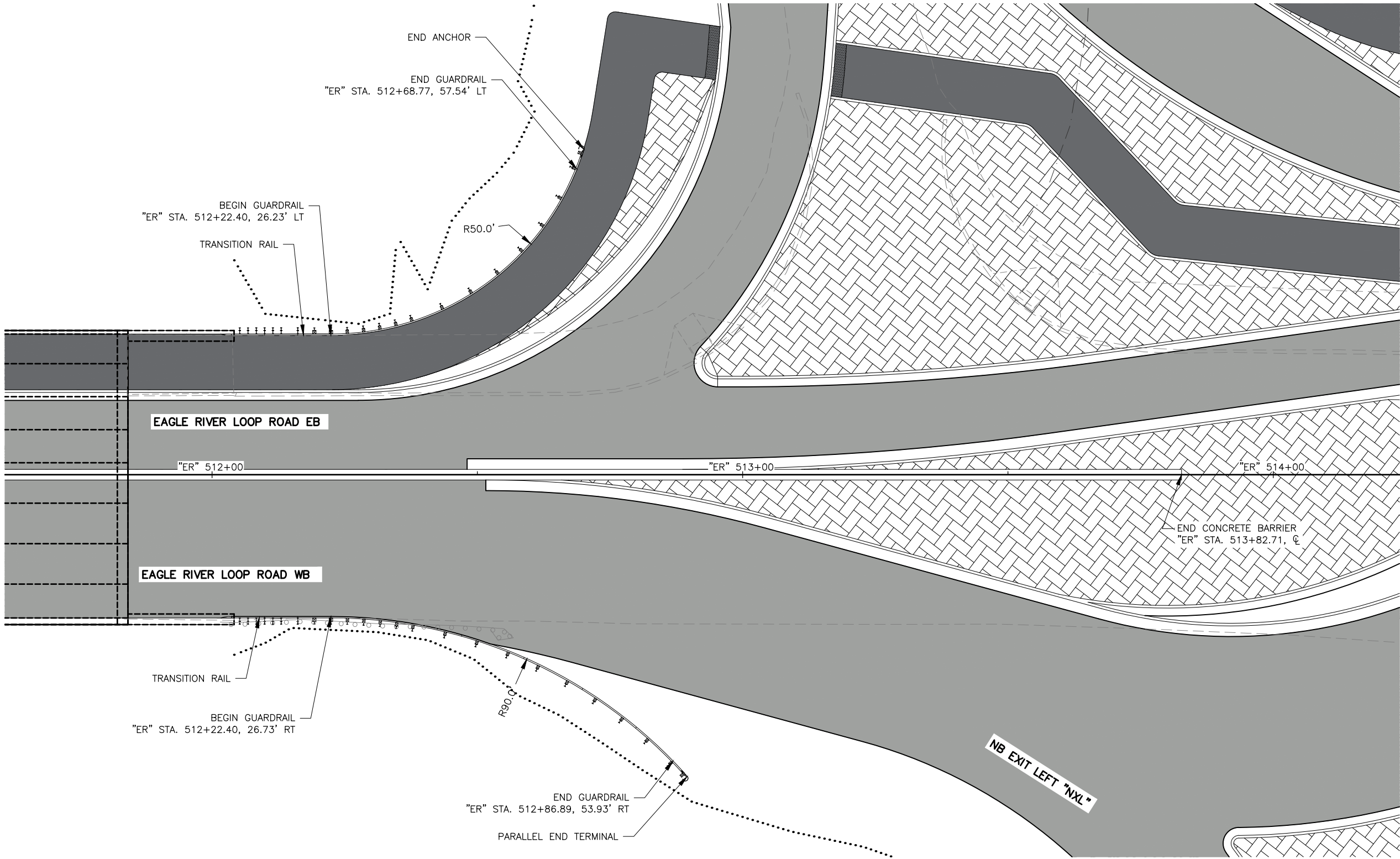
NO.	REVISION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

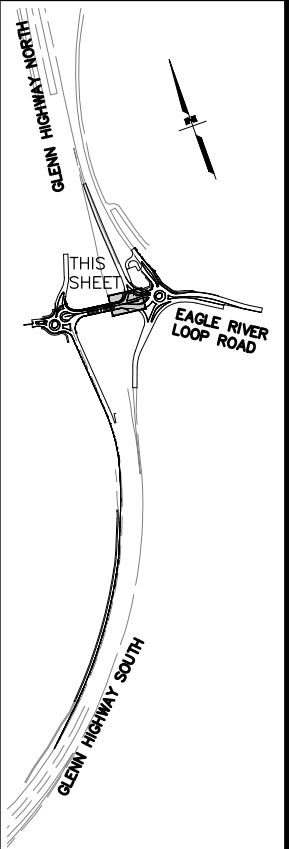
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

**GUARDRAIL-FENCE
DETAILS**



GUARDRAIL/FENCE PLAN
SCALE: 1"=10'

SHEET NO.	TOTAL SHEETS
E11	E13
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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REVIEW
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

**GUARDRAIL—FENCE
DETAILS**

DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
C:\DOWL_PW\Q041938\1\Q0917_E01_DTL.DWG		9/18/2025	1:01 PM	1" = 10'	CHECKED BY
					DRAFTED BY
					ST
					RT
					AZ

SHEET NO.	TOTAL SHEETS
E12	E13
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

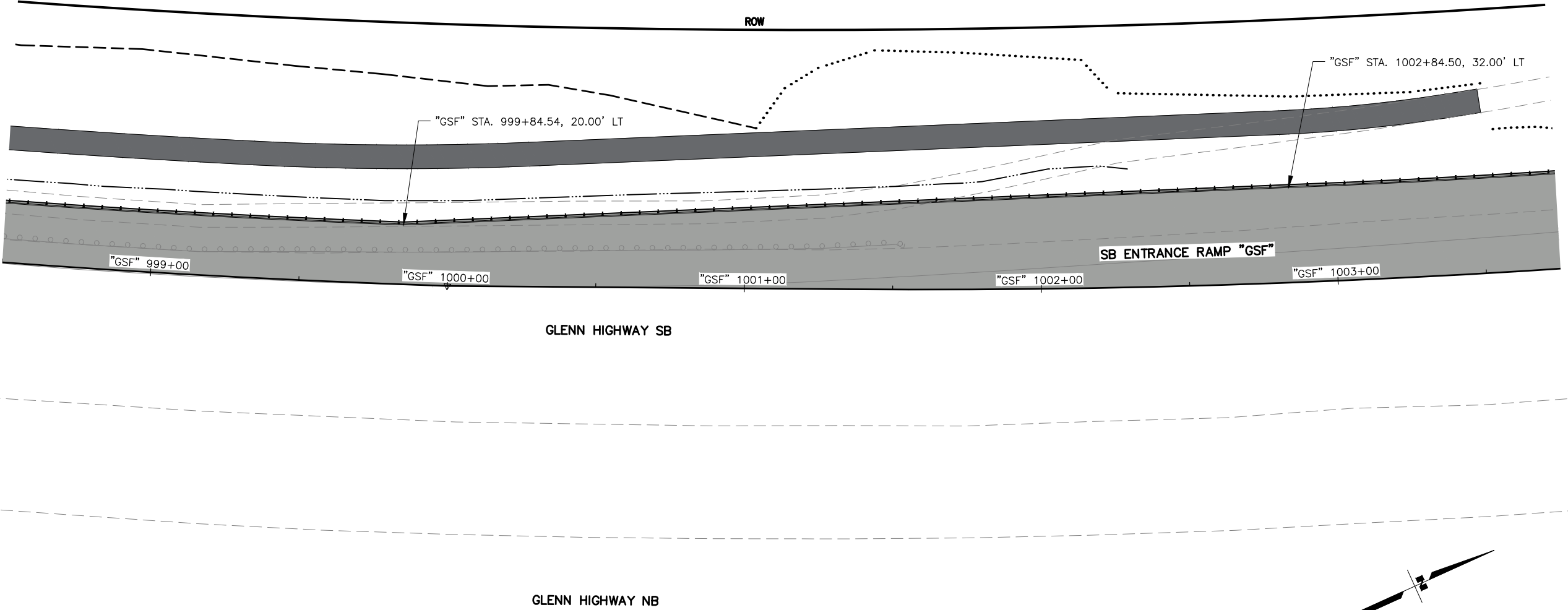
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SEPT 2025
PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

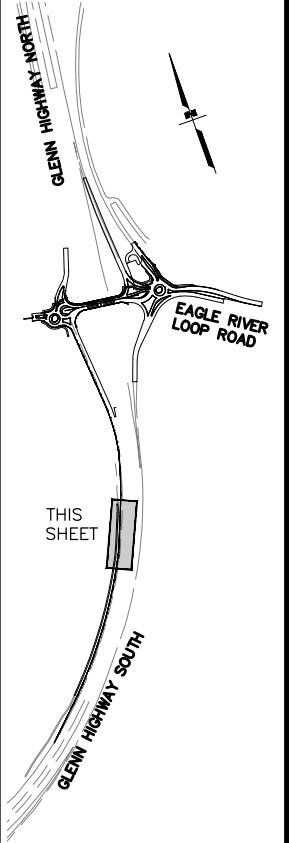
GUARDRAIL-FENCE
DETAILS



GUARDRAIL/FENCE PLAN
SCALE: 1"=10'

SHEET NO.	TOTAL SHEETS
E13	E13
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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SEPT 2025

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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

**GUARDRAIL-FENCE
DETAILS**

NOTE: DRAFT DESIGN
-THE PROJECT TEAM IS WORKING IN
COORDINATION WITH THE SWS ON
IMPROVEMENTS IN THIS LOCATION AS
THEY WORK THROUGH GATE UPGRADES.

B.O.P.
"ER" STA. 504+50.24
N 369196.1353
E 399632.5967

ANCHORAGE REGIONAL
LANDFILL

"ER" CURVE #1
P.I. "ER" STA. 504+90.35
N = 369206.7359
E = 399673.3897
Δ = 028°39'01.4"
T = 153.22'
L = 300.03'
R = 600.00'

"ER" +50.24,
7.88' RT

"ER" +15.36
9.49' LT

"ER" +15.44
34.19' RT

EAGLE RIVER LOOP WB

EAGLE RIVER LOOP EB

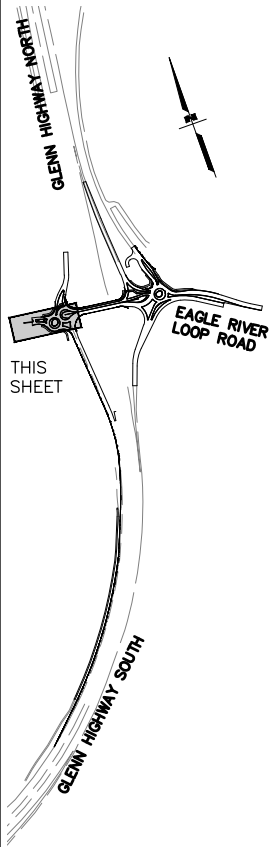
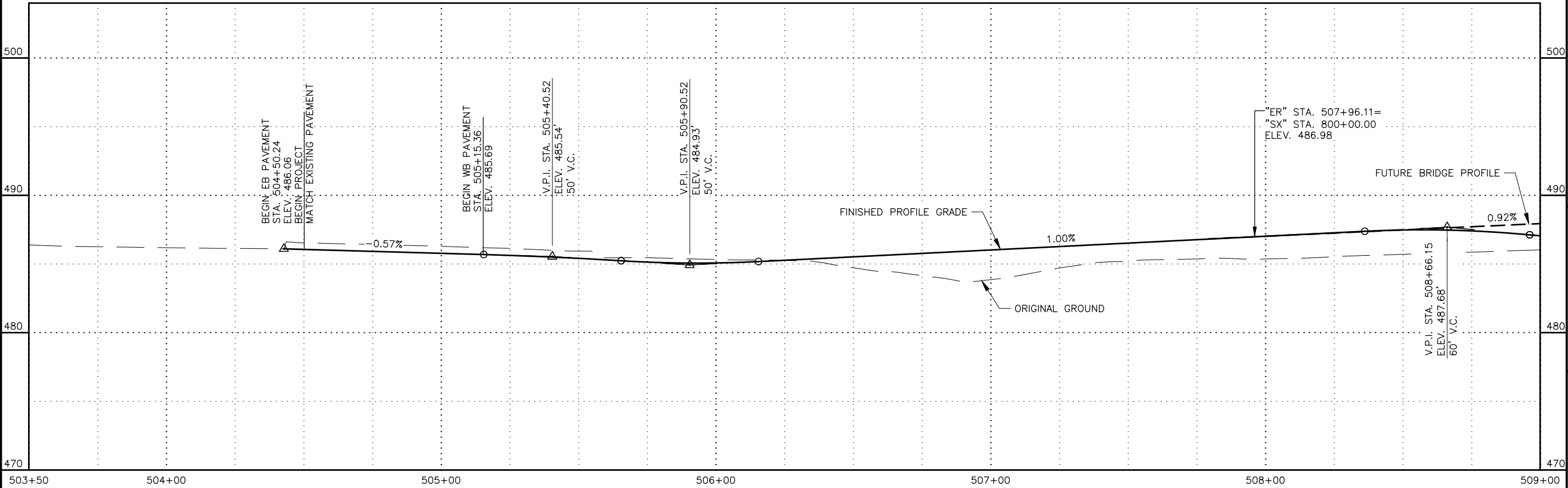
LANDSCAPING DESIGN AT PS&E REVIEW

LANDSCAPING DESIGN AT
PS&E REVIEW

SEE SHEET F19

SEE SHEET F17

MATCH LINE "ER" STA. 509+00 (SEE SHEET F2)



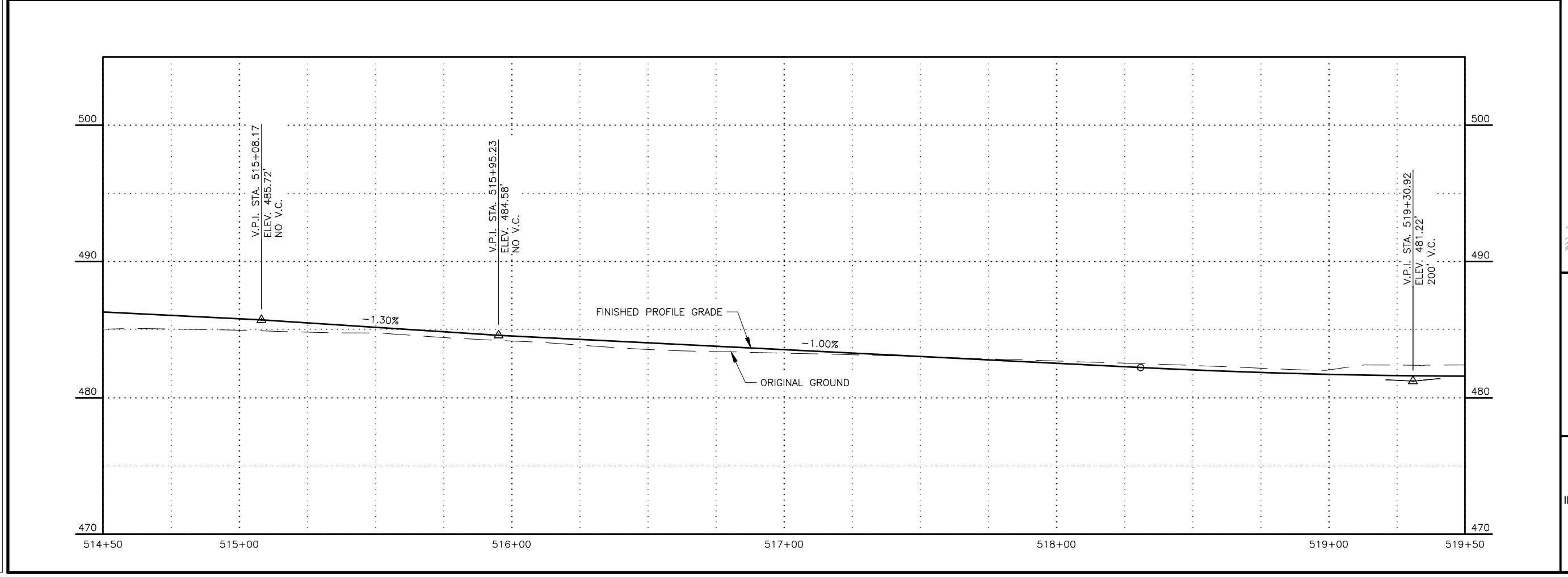
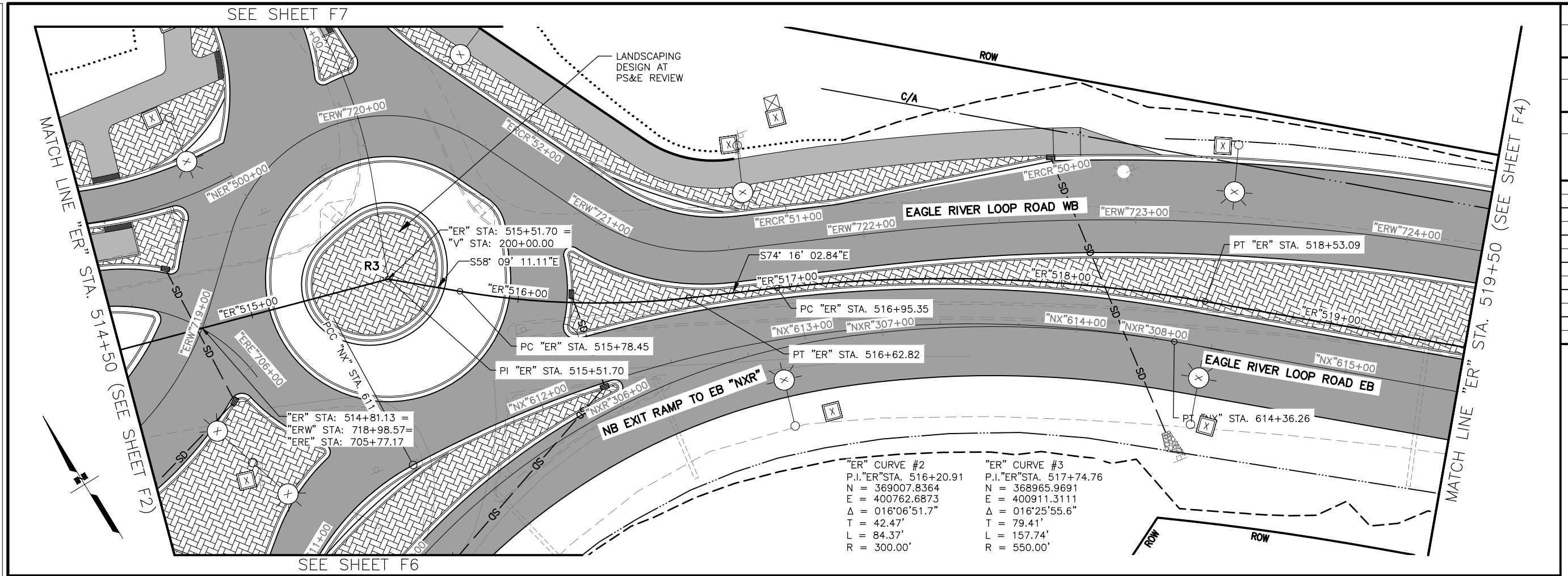
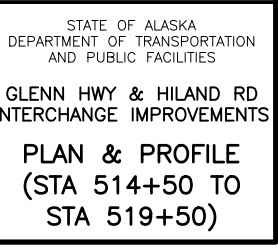
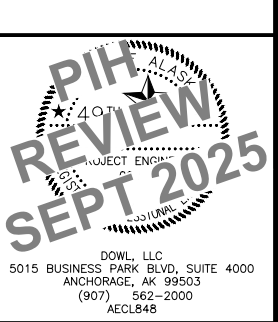
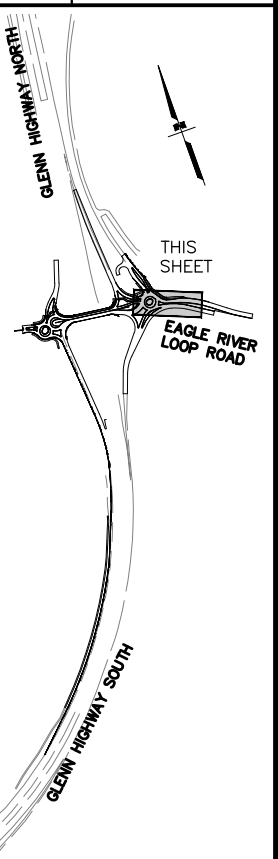
PIH
REVIEW
SEPT 2025
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

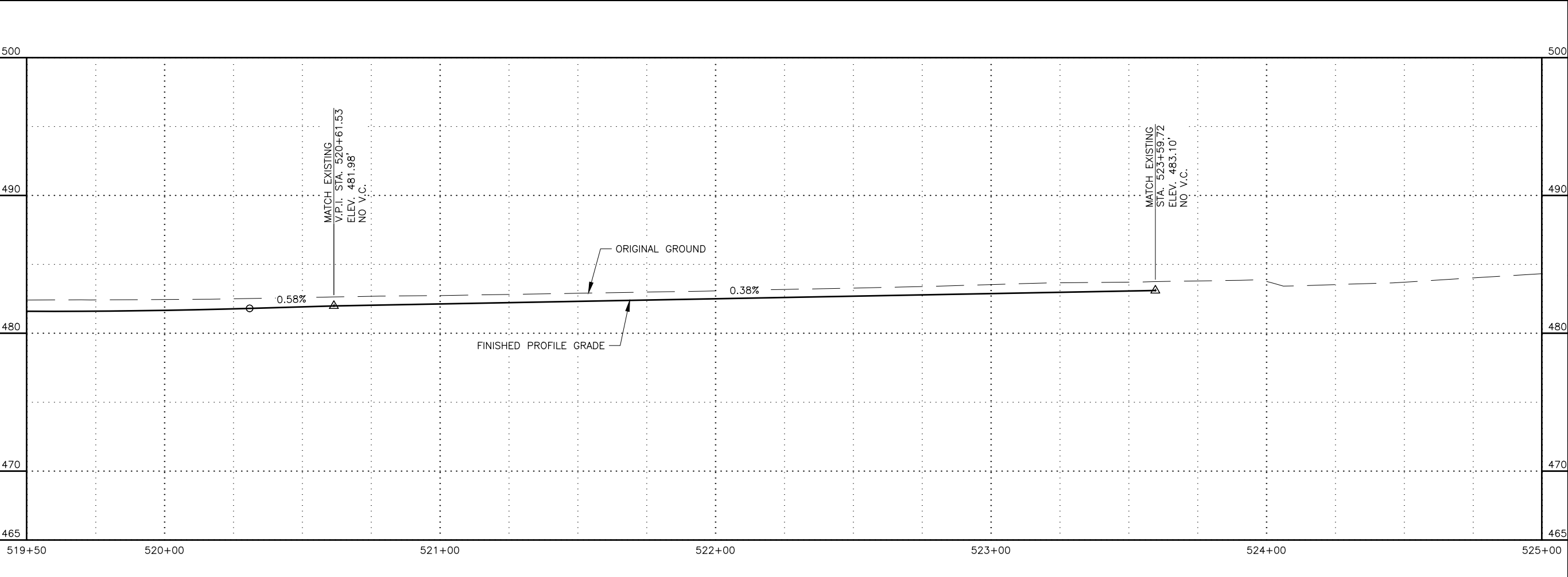
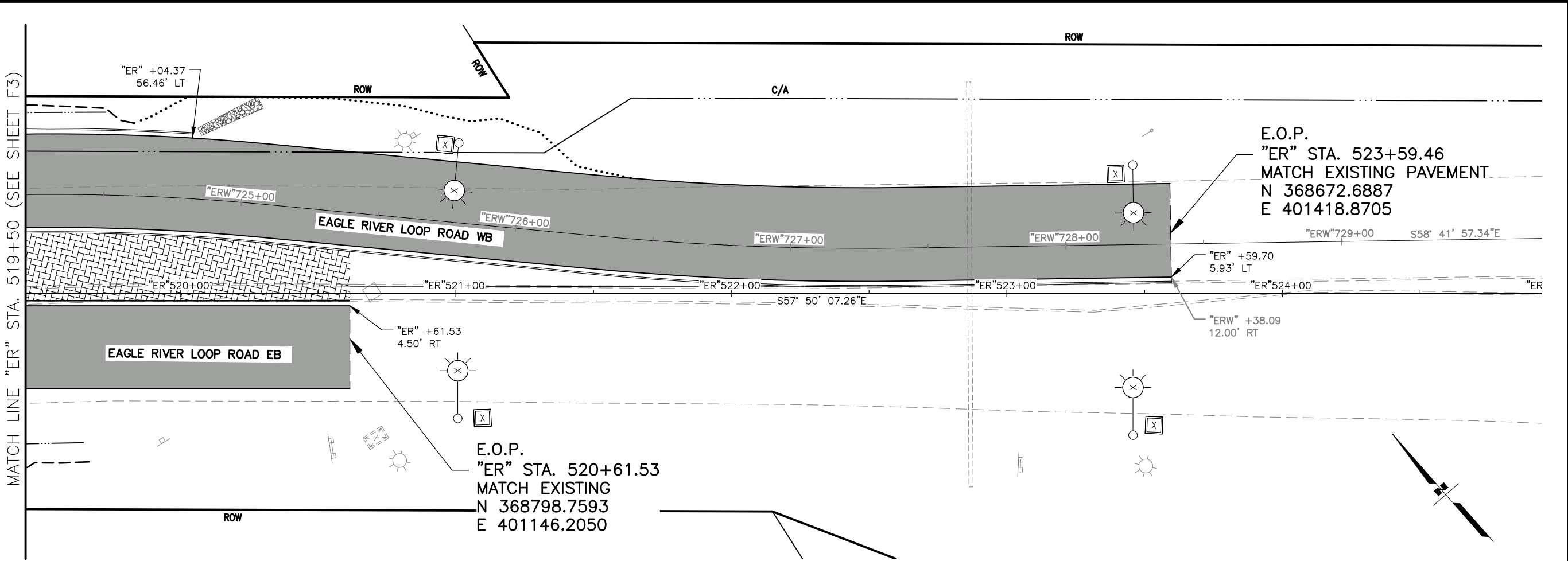
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS
PLAN & PROFILE
(STA 503+50 TO
STA 509+00)

SHEET NO.	TOTAL SHEETS
F1	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

SHEET NO.	TOTAL SHEETS
F3	F20
STATE	YEAR
ALASKA	2026

PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	
DATE	
NO.	
DATE	
NO.	
DATE	
NO.	





SHEET NO.	TOTAL SHEETS
F4	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW

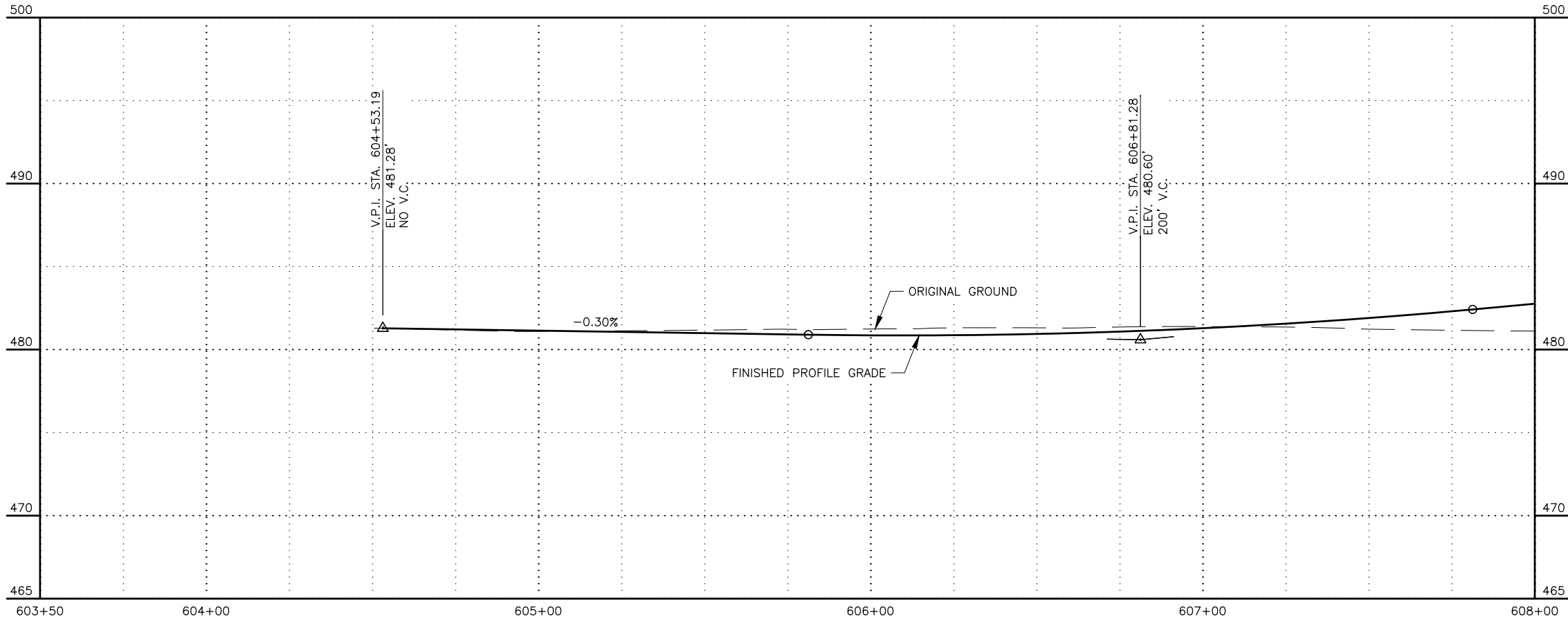
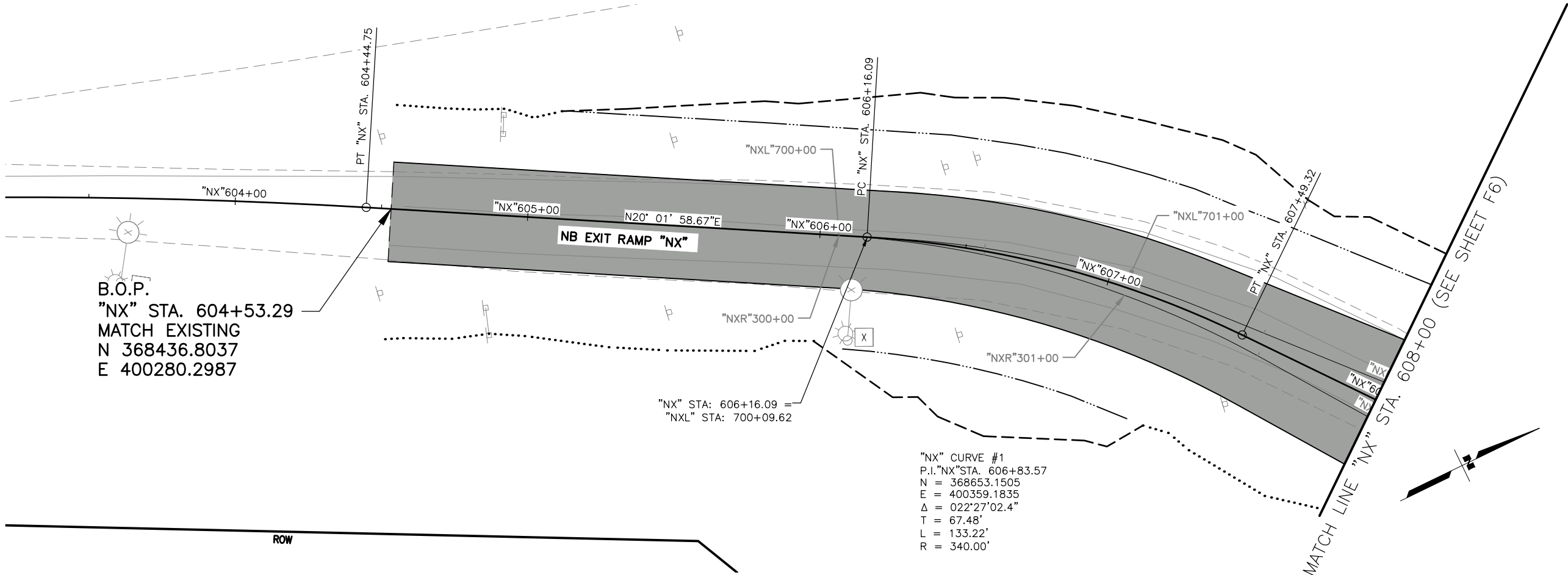
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 519+50 TO
STA 525+00)



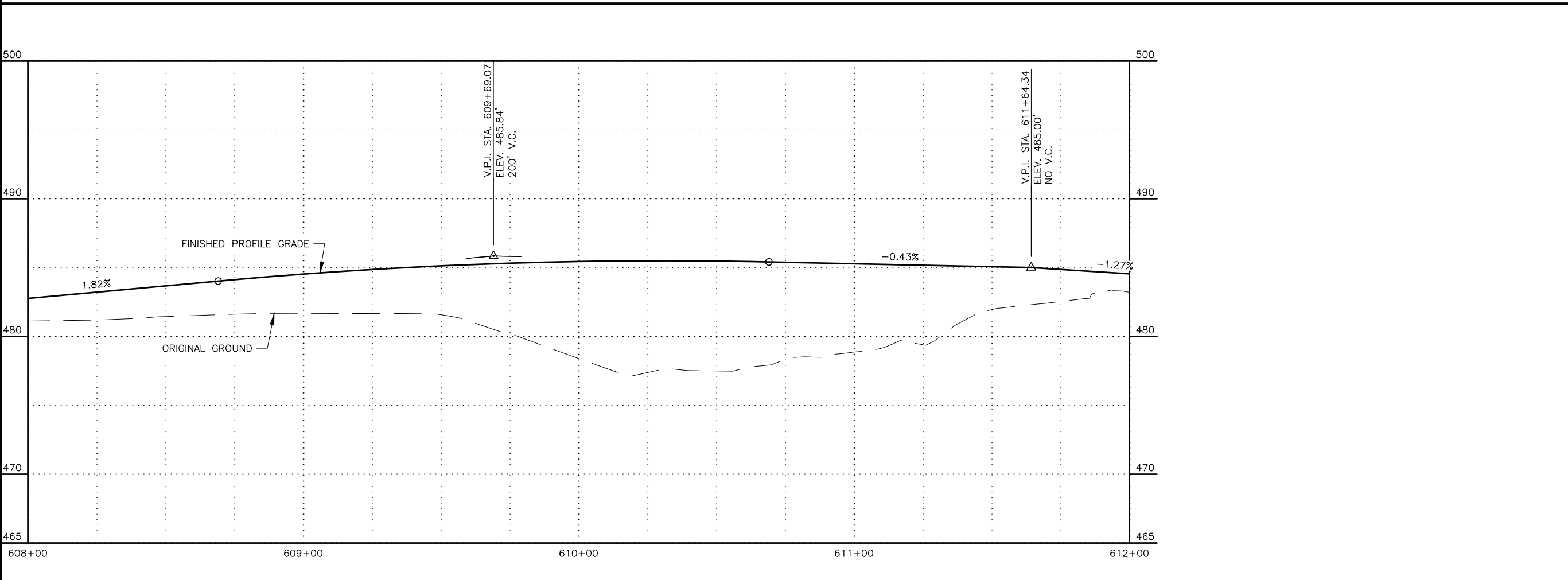
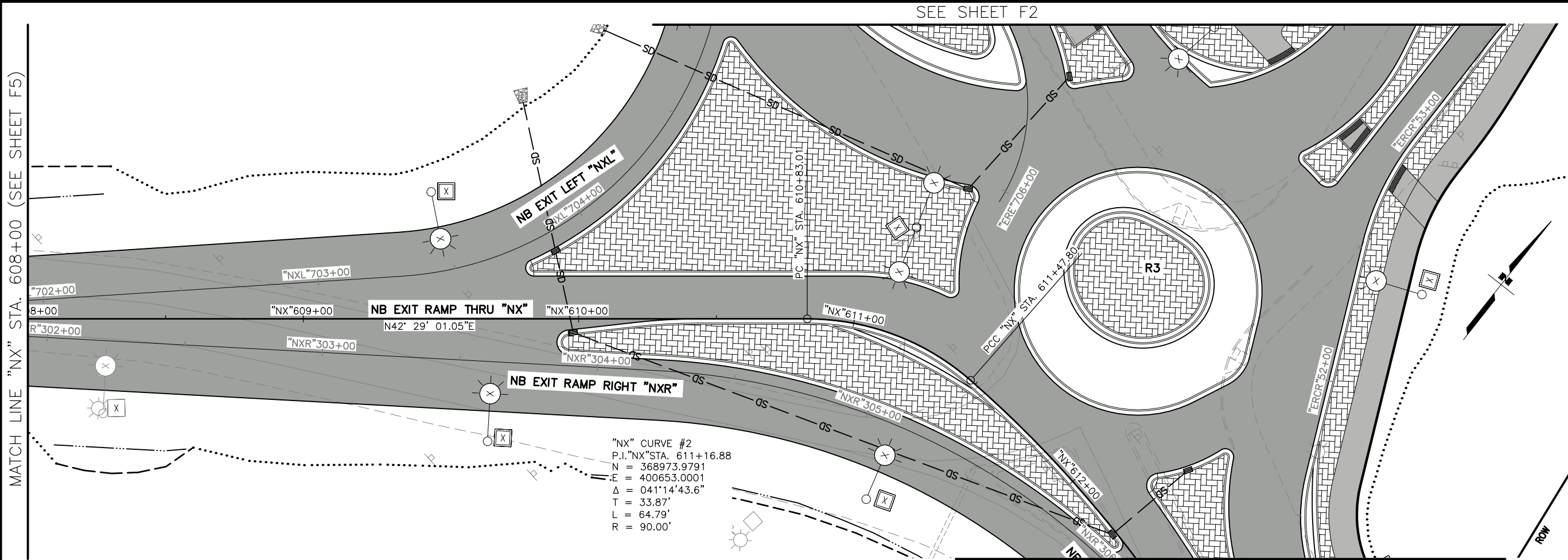
SHEET NO.	TOTAL SHEETS
F5	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

DOWL, LLC
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ANCHORAGE, AK 99503
(907) 562-2000
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 603+50 TO
STA 608+00)



SHEET NO.	TOTAL SHEETS
F6	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

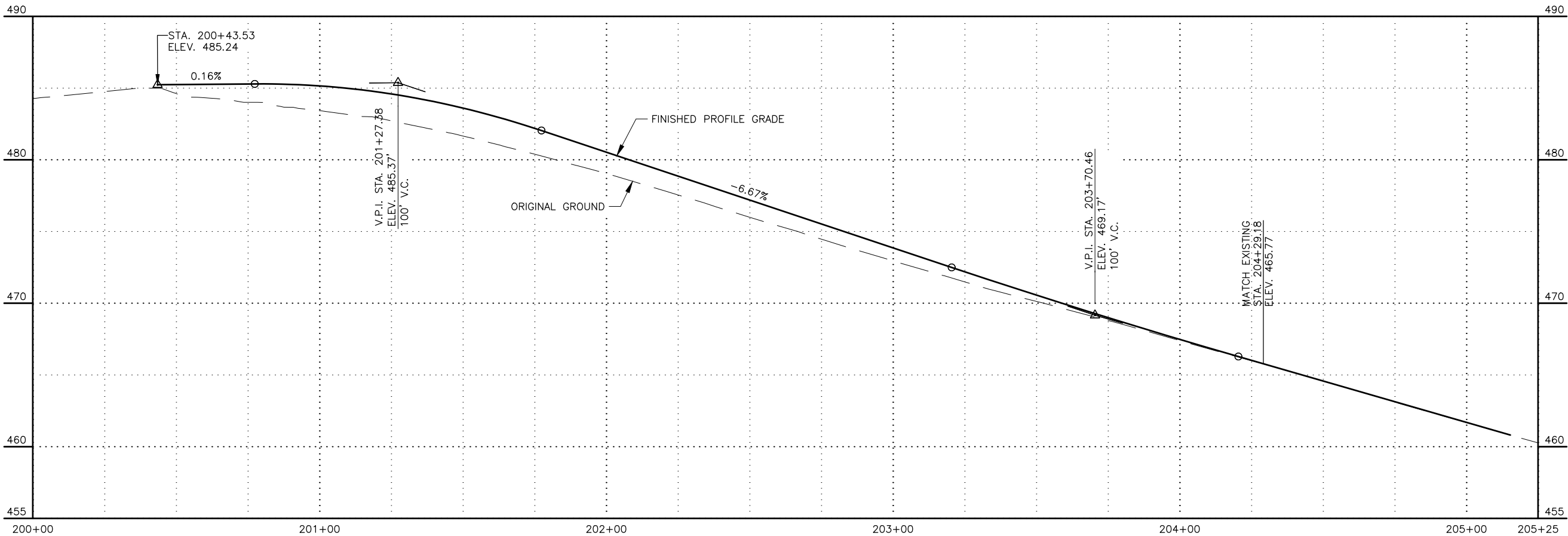
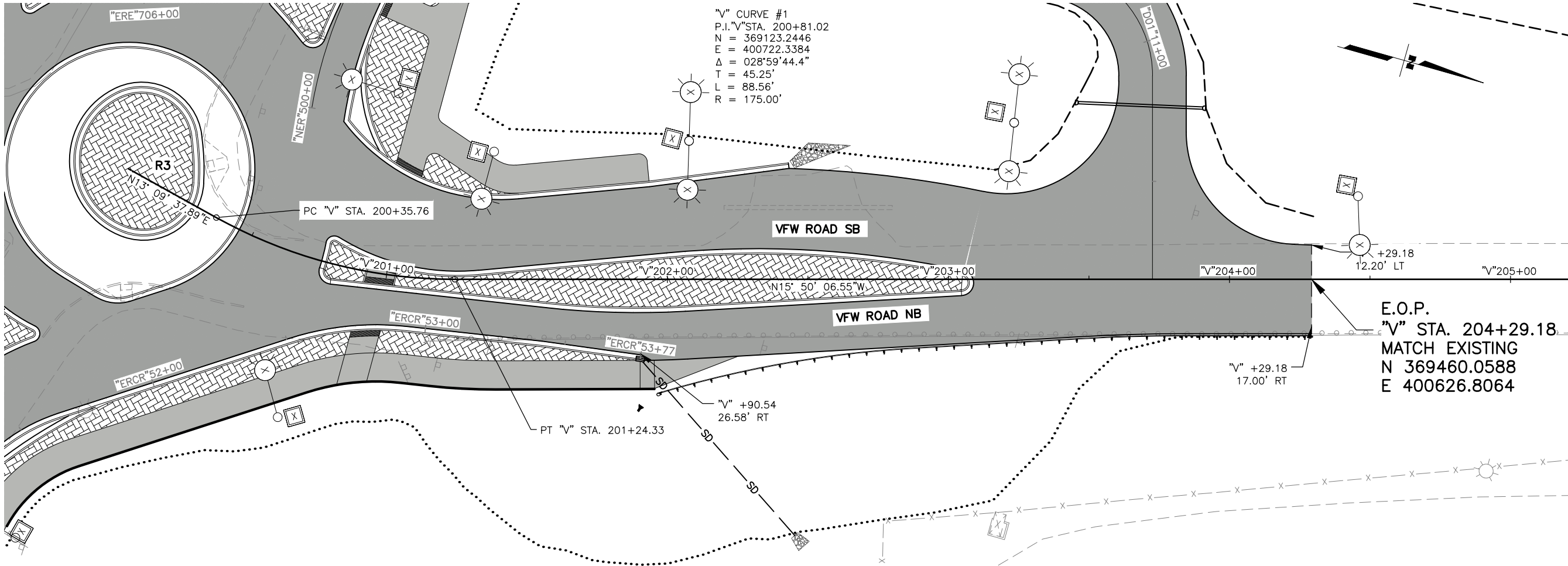
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 608+00 TO
STA 612+00)



SHEET NO.	TOTAL SHEETS
F7	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

THIS SHEET

EAGLE RIVER LOOP ROAD

GLENN HIGHWAY SOUTH

PIH REVIEW

SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

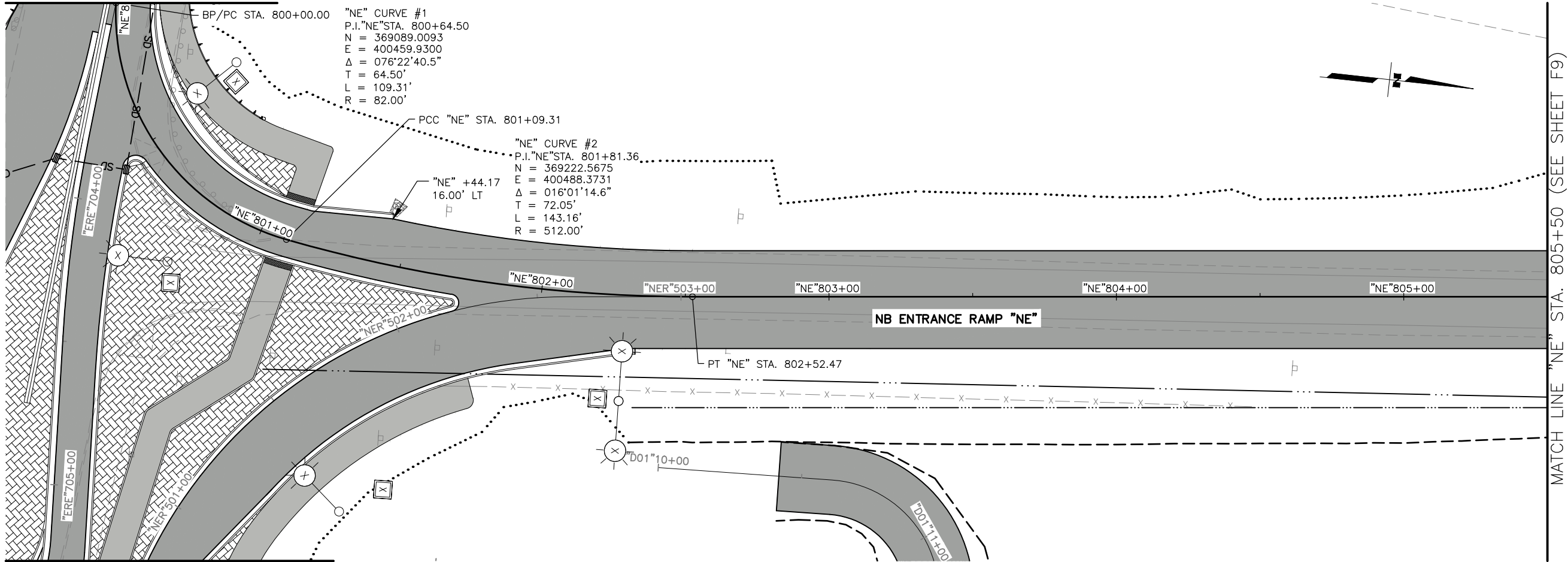
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

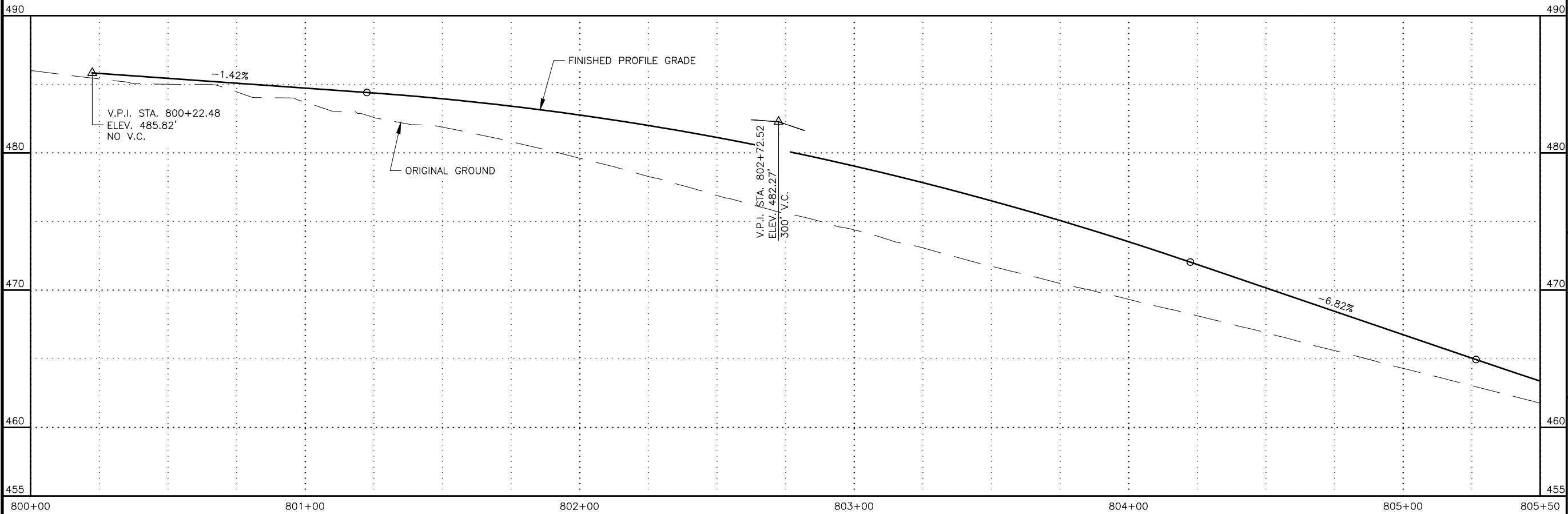
PLAN & PROFILE
(STA 200+00 TO
STA 204+50)

DESIGNED BY: AZ
CHECKED BY: ST
DRAFTED BY: RI
SCALE: 1"=20'
TIME: 9/18/2025 1:02 PM
DATE: 9/18/2025 1:02 PM
DRAWING LOCATION: C:\DOWL_PW\00419381\00917-F-PNP.DWG

SEE SHEET F2



SEE SHEET F3



SHEET NO.	TOTAL SHEETS
F8	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

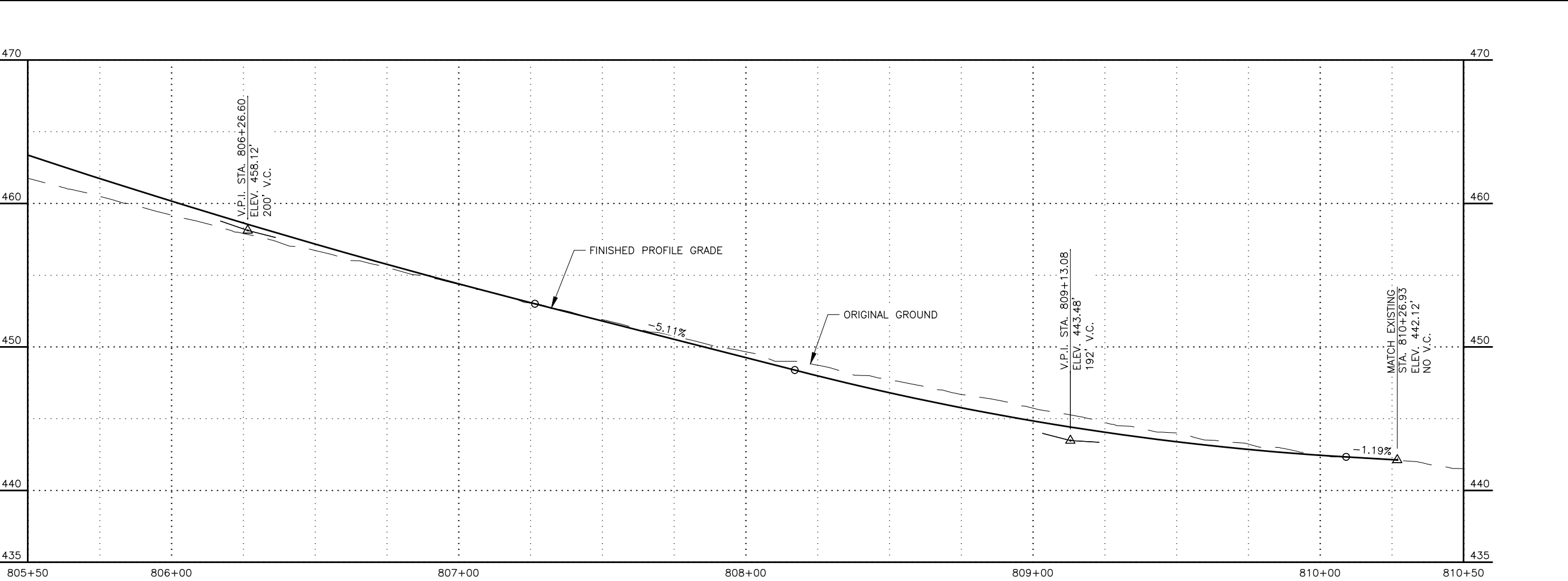
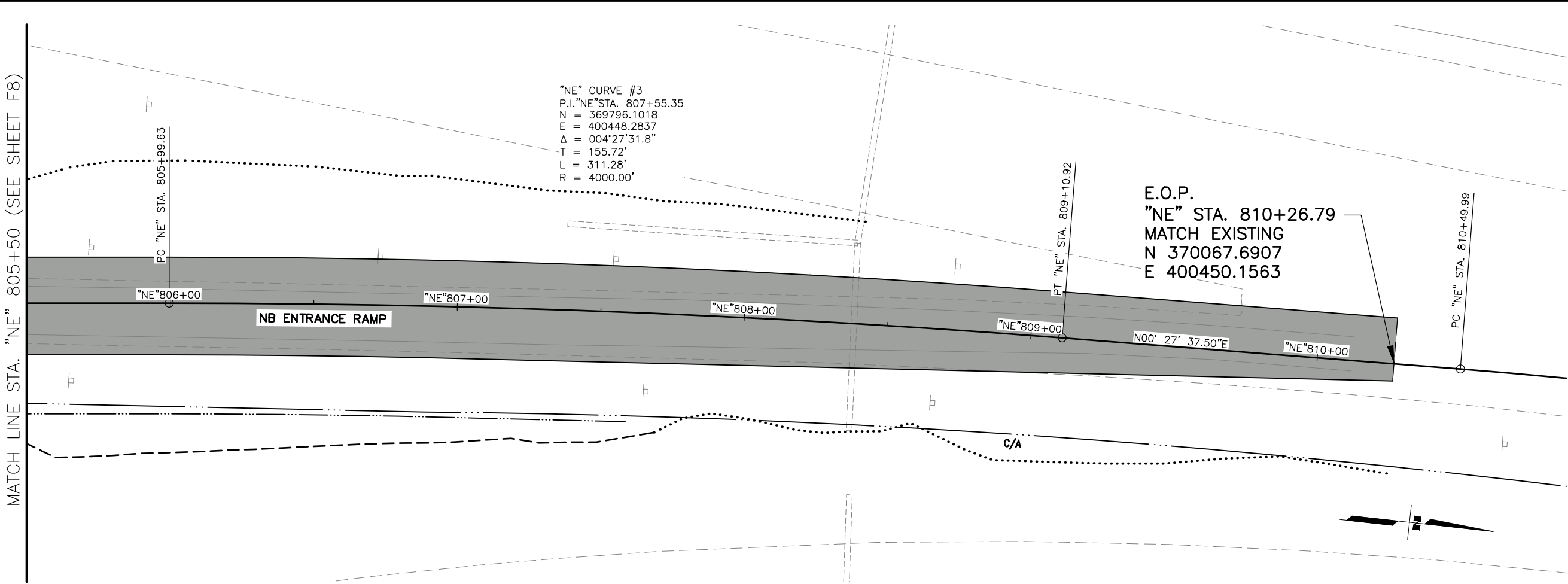
GLENN HIGHWAY NORTH
GLENN HIGHWAY SOUTH
EAGLE RIVER LOOP ROAD
THIS SHEET

PIH REVIEW
SEPT 2025
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 800+00 TO
STA 805+50)



SHEET NO.	TOTAL SHEETS
F9	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

THIS SHEET

EAGLE RIVER LOOP ROAD

GLENN HIGHWAY SOUTH

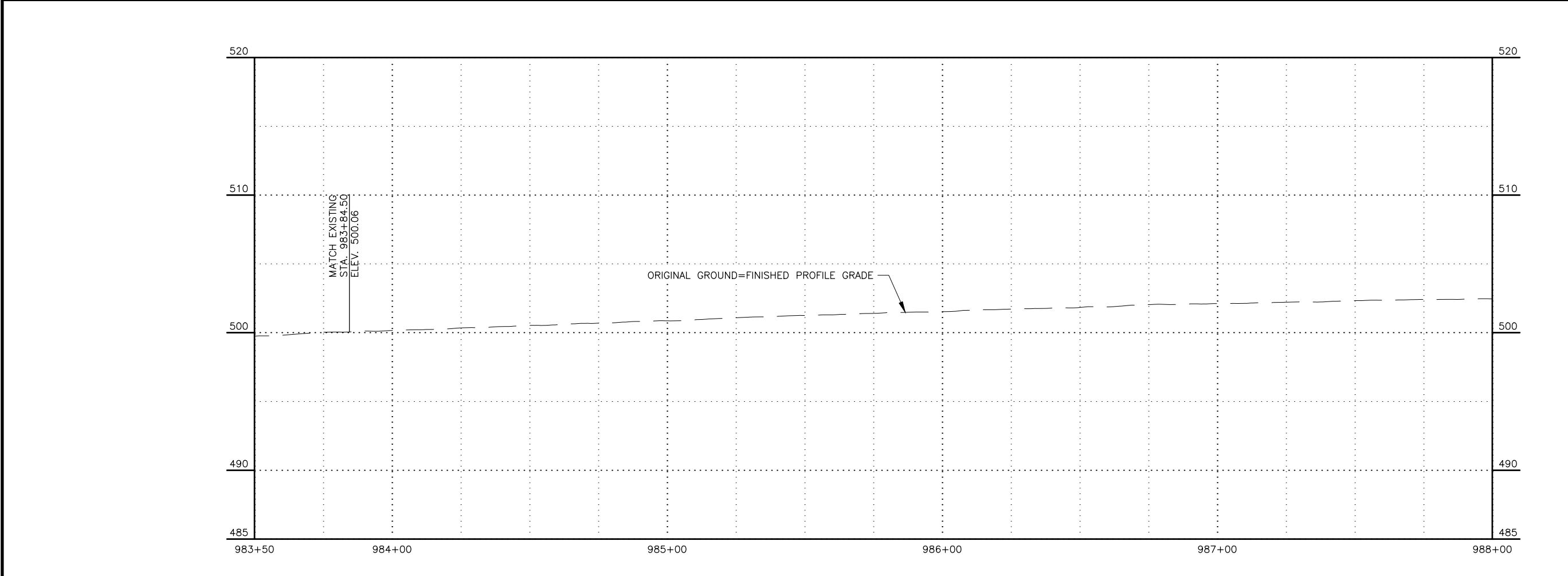
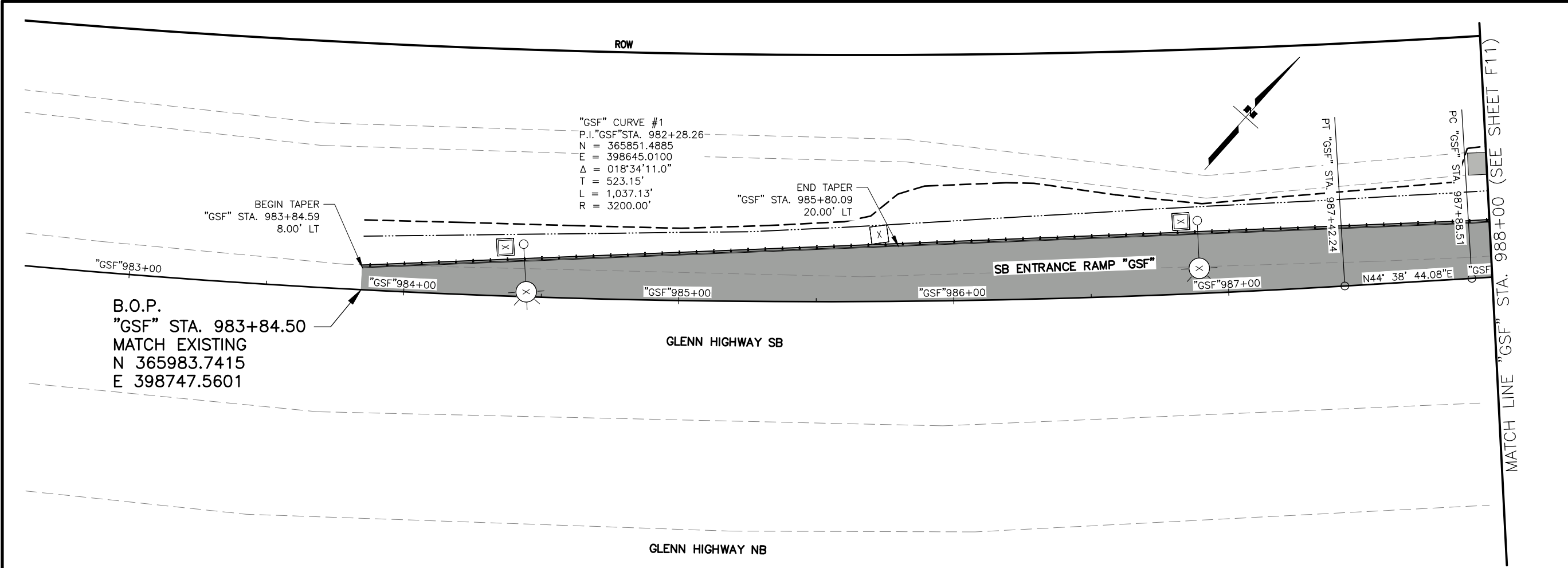
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AEC1848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 805+50 TO
STA 810+50)



SHEET NO.	TOTAL SHEETS
F10	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

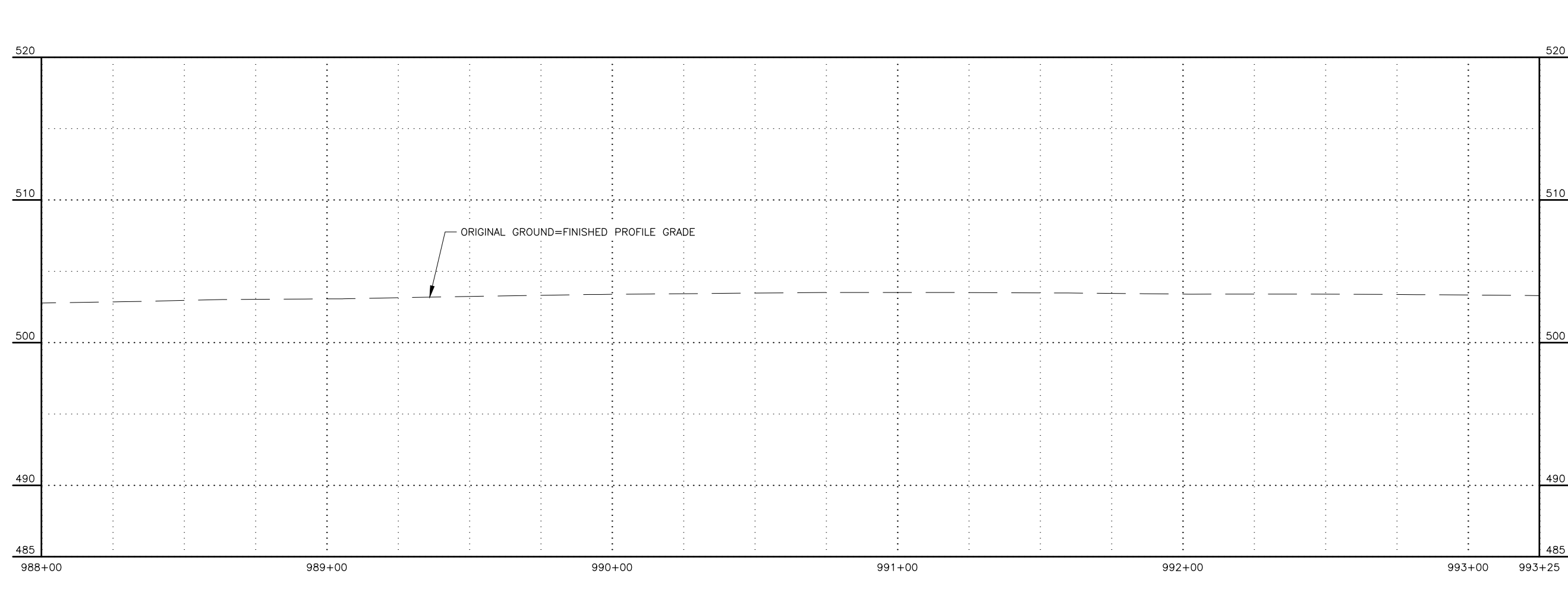
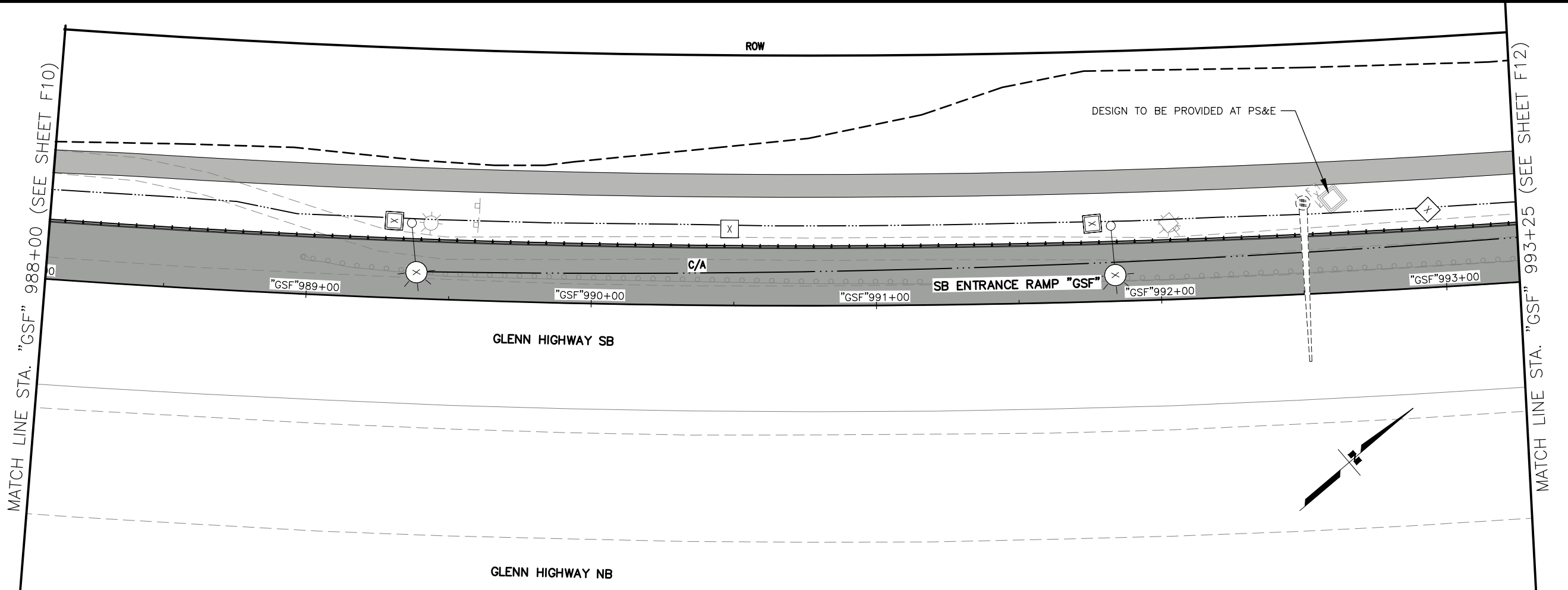
PIH
REVIEW
SEPT 2025

PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 983+50 TO
STA 988+00)



SHEET NO.	TOTAL SHEETS
F11	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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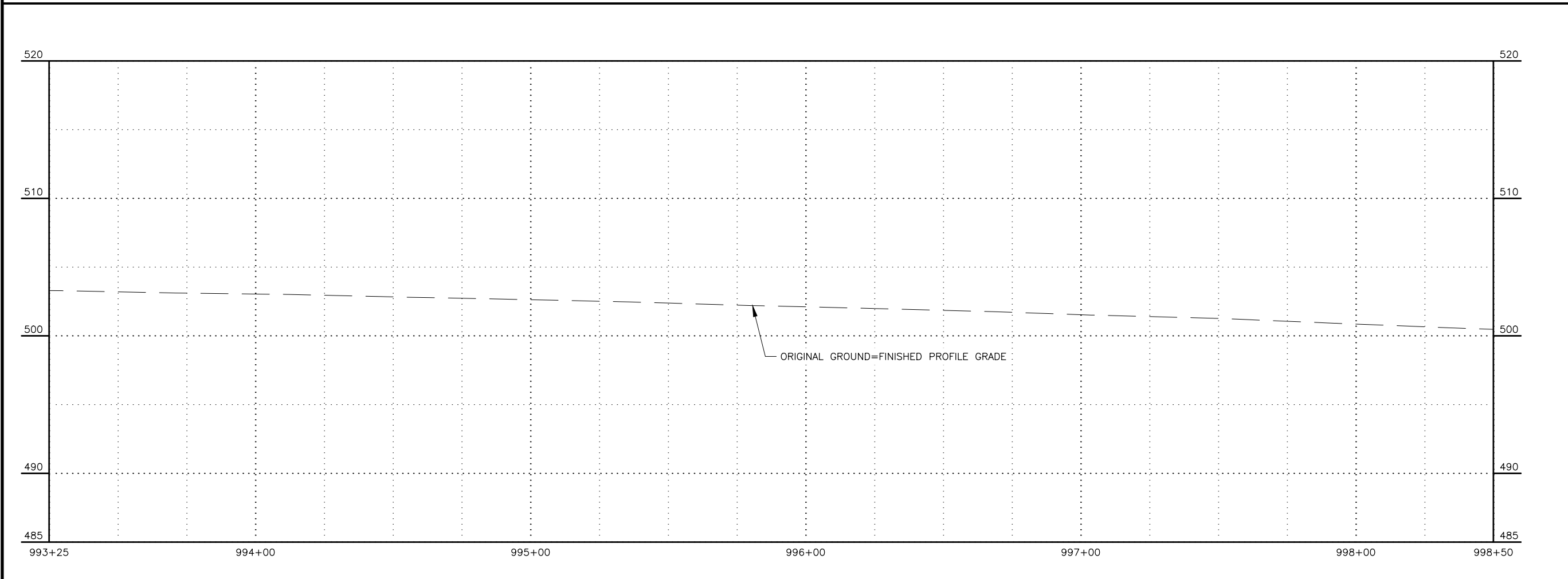
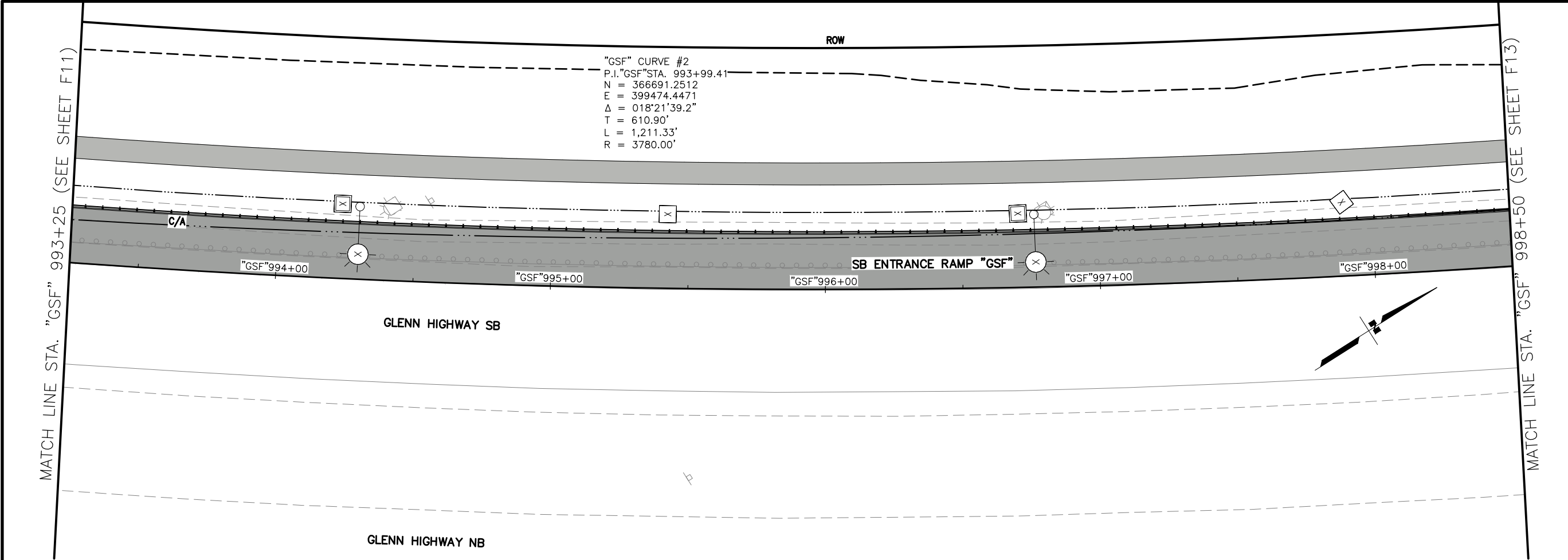
PIH REVIEW
SEPT 2025
PROJECT ENGINEER

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 988+00 TO
STA 993+25)



SHEET NO.	TOTAL SHEETS
F12	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

THIS SHEET

EAGLE RIVER LOOP ROAD

PIH REVIEW

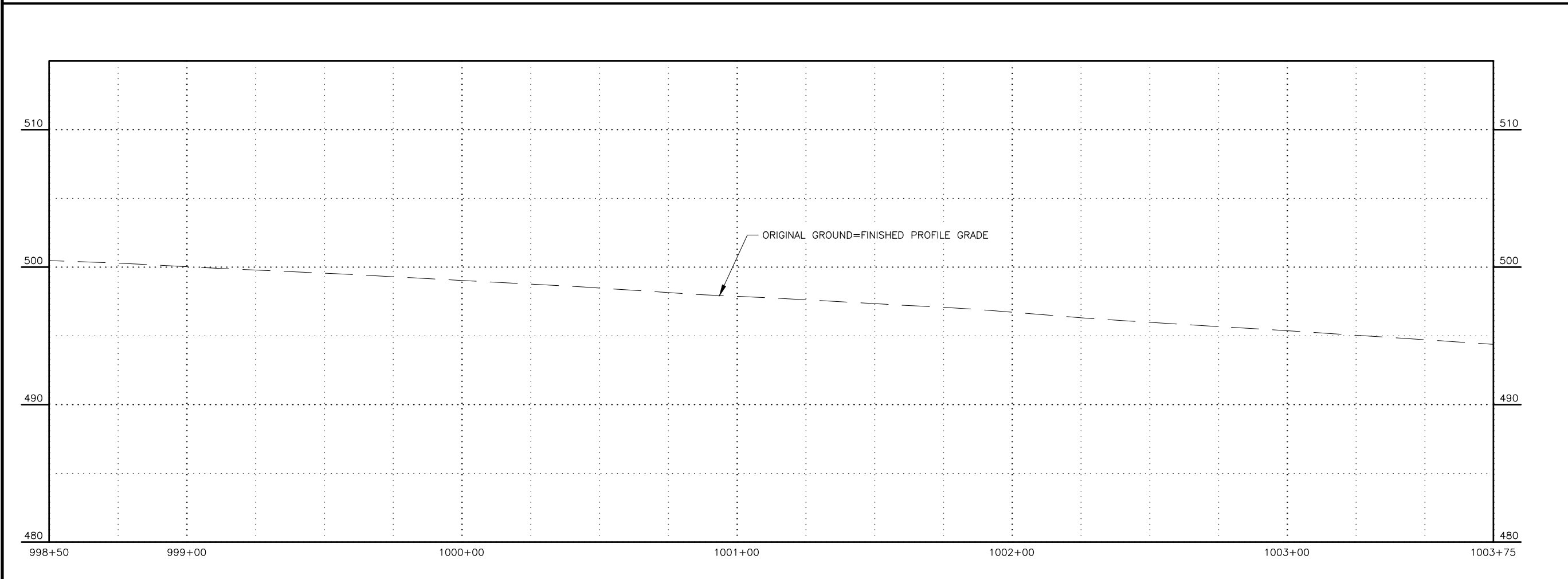
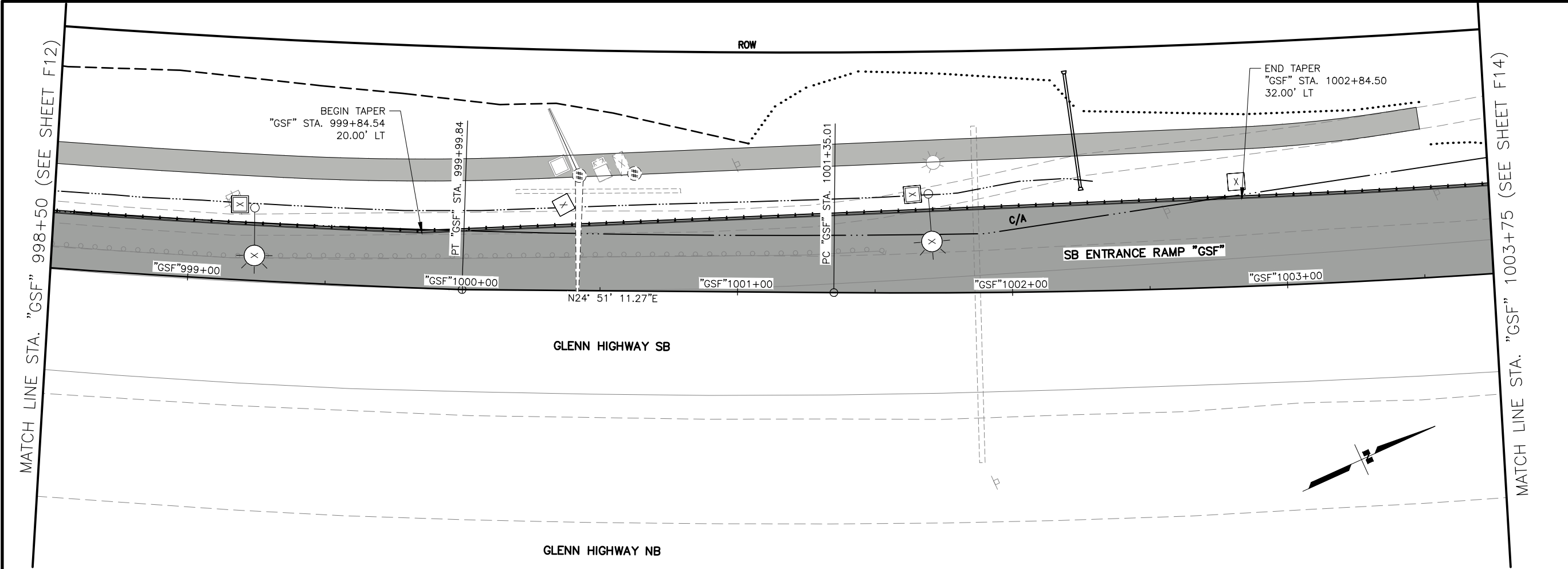
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 993+25 TO
STA 998+50)



SHEET NO.	TOTAL SHEETS
F13	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

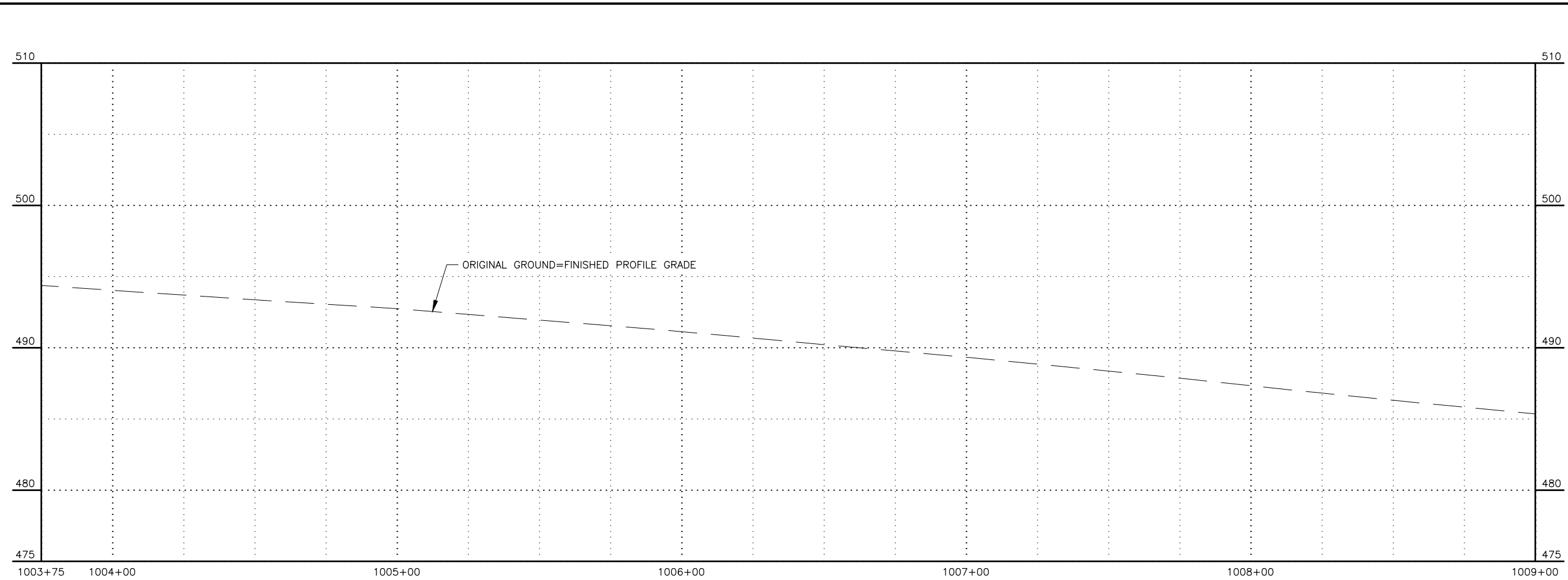
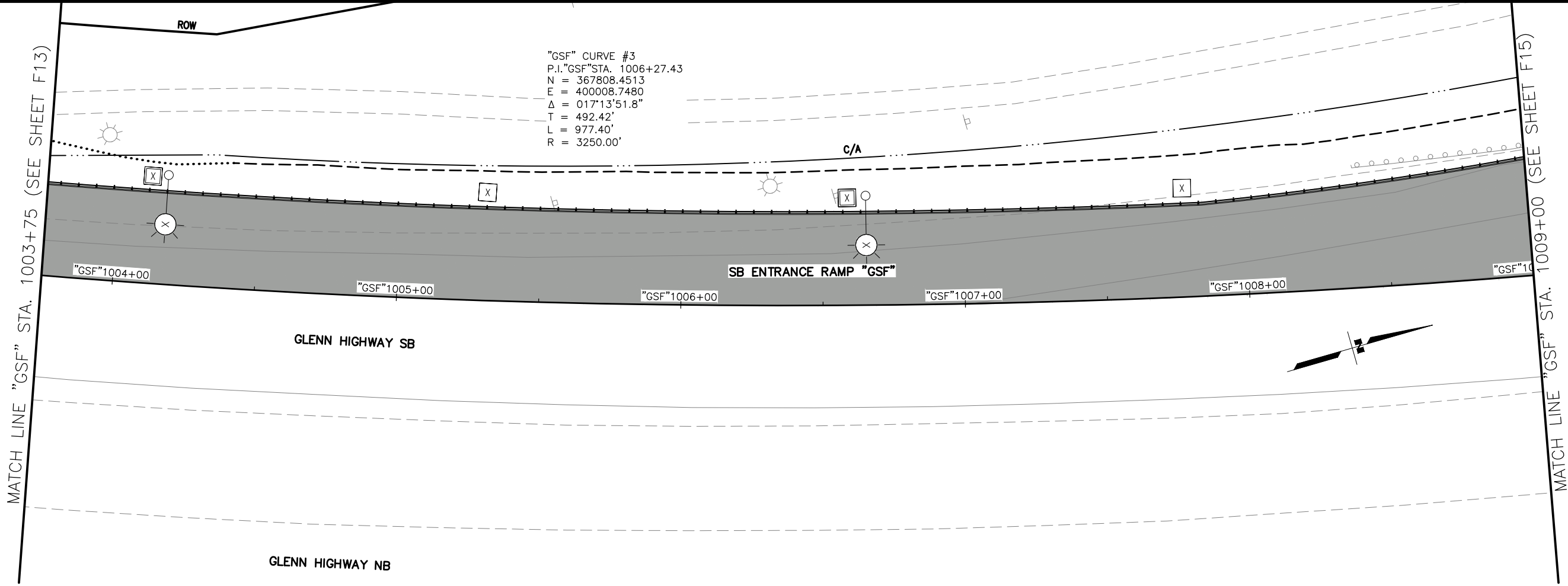
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 998+50 TO
STA 1003+75)



SHEET NO.	TOTAL SHEETS
F14	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW

SEPT 2025

PROJECT ENGINEER

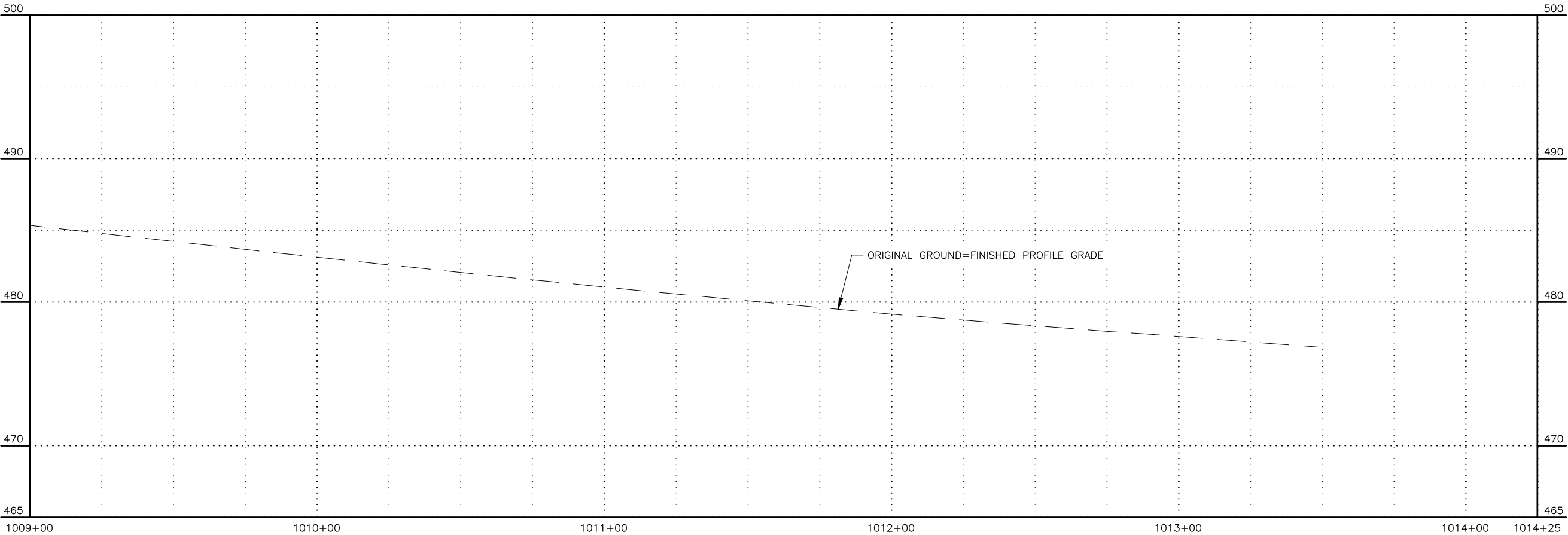
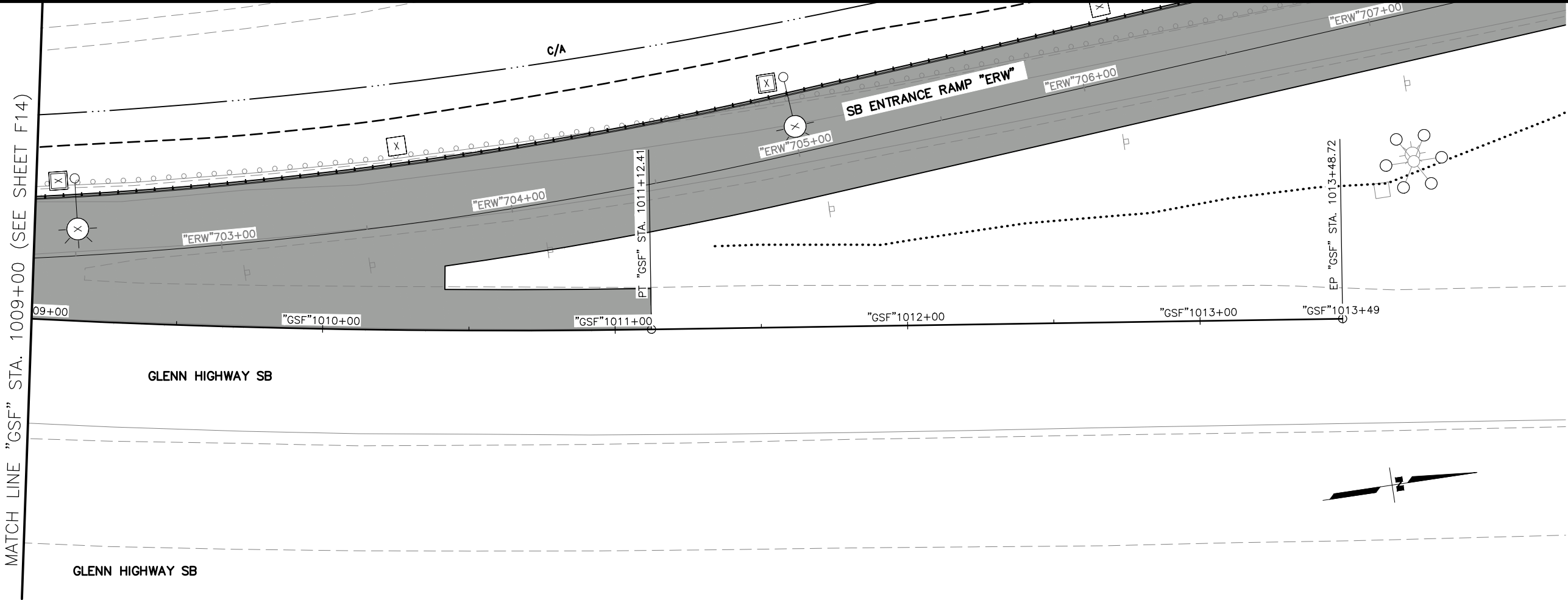
DATE

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS

PLAN & PROFILE (STA 1003+75 TO STA 1009+00)



SHEET NO.	TOTAL SHEETS
F15	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

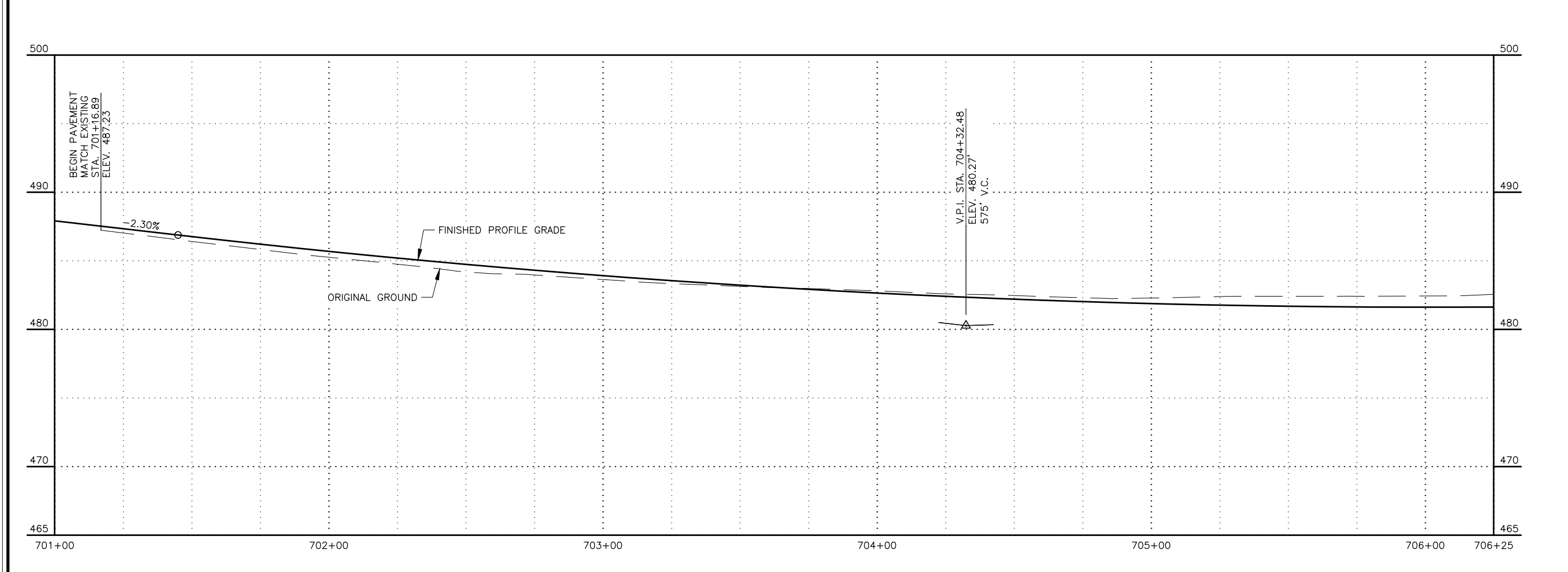
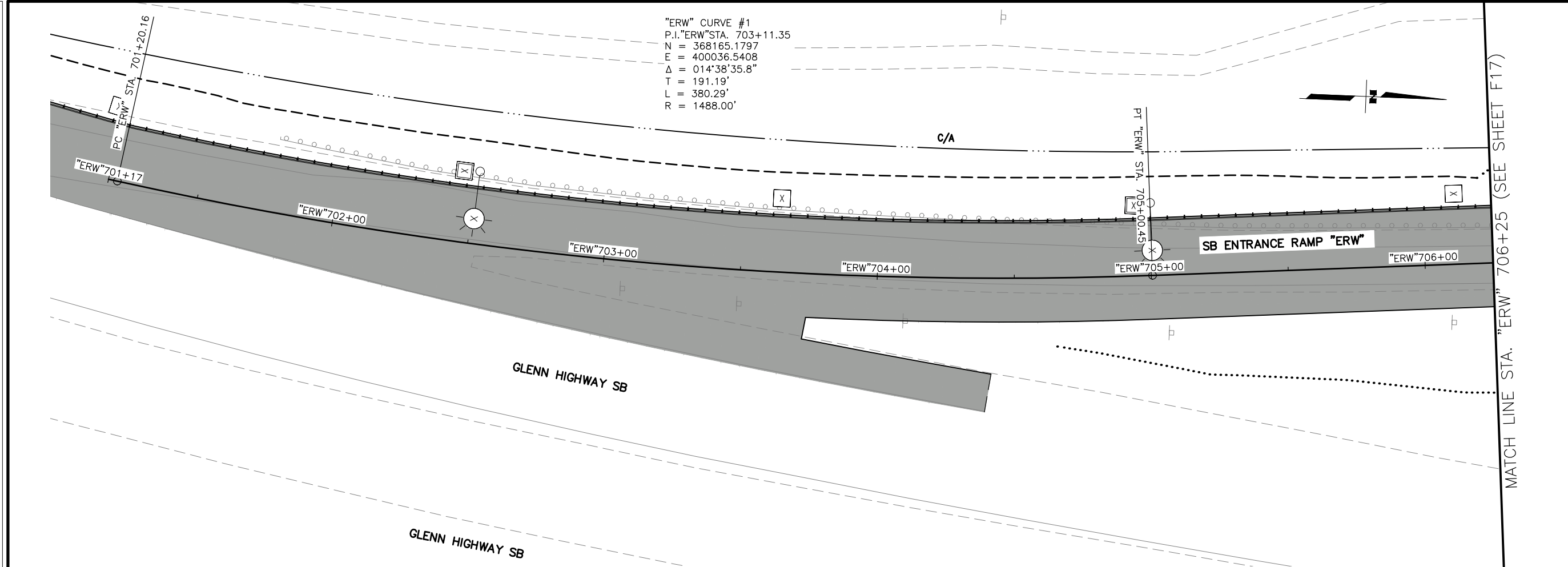
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 1009+00 TO
STA 1014+25)



SHEET NO.	TOTAL SHEETS
F16	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

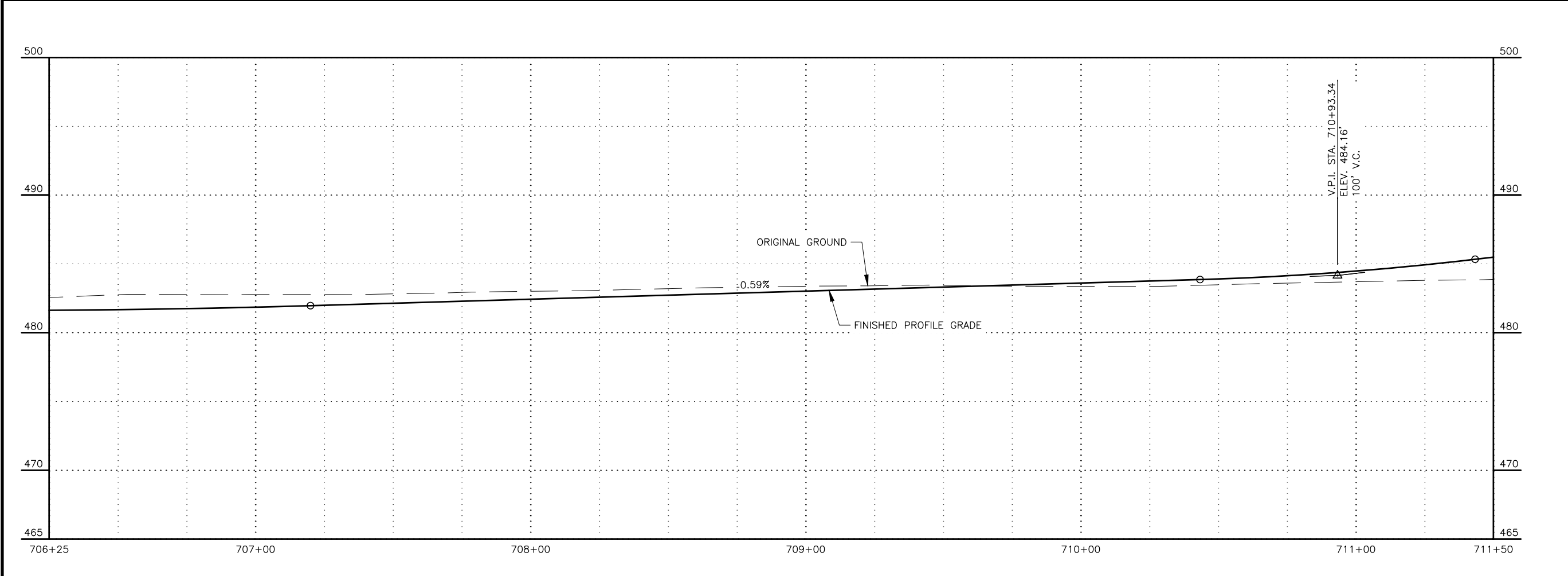
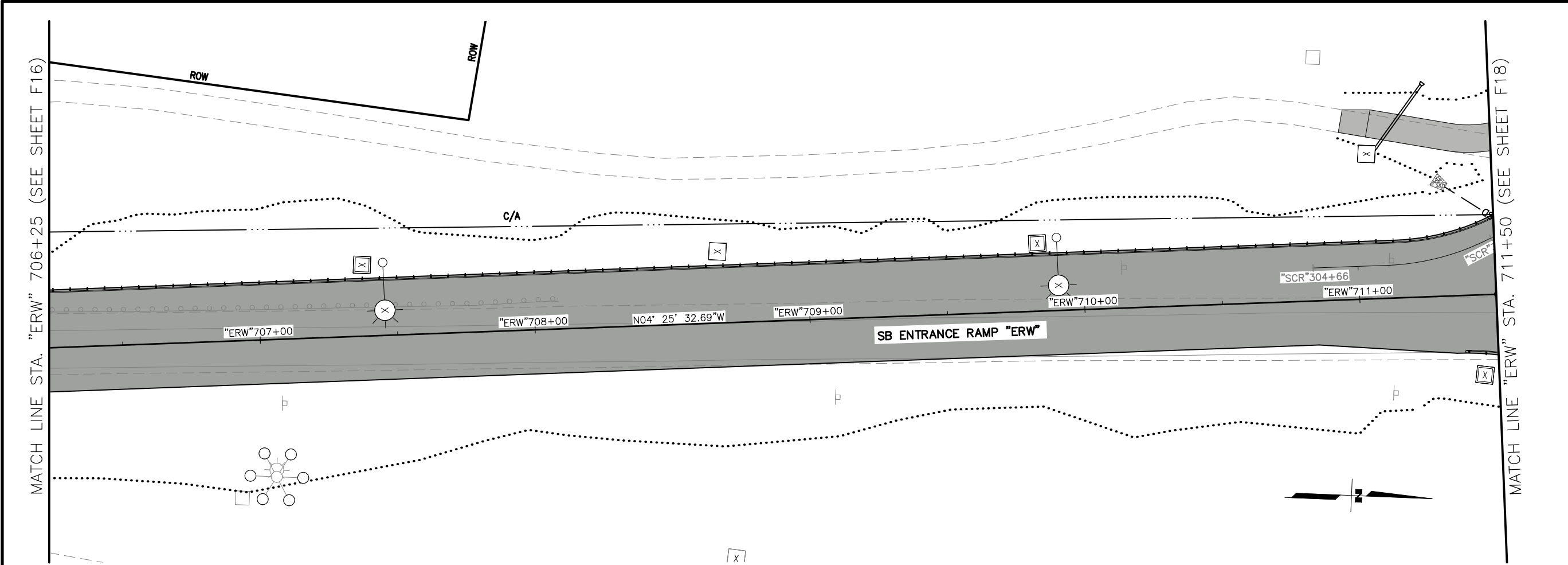
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 701+00 TO
STA 706+25)



SHEET NO.	TOTAL SHEETS
F17	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

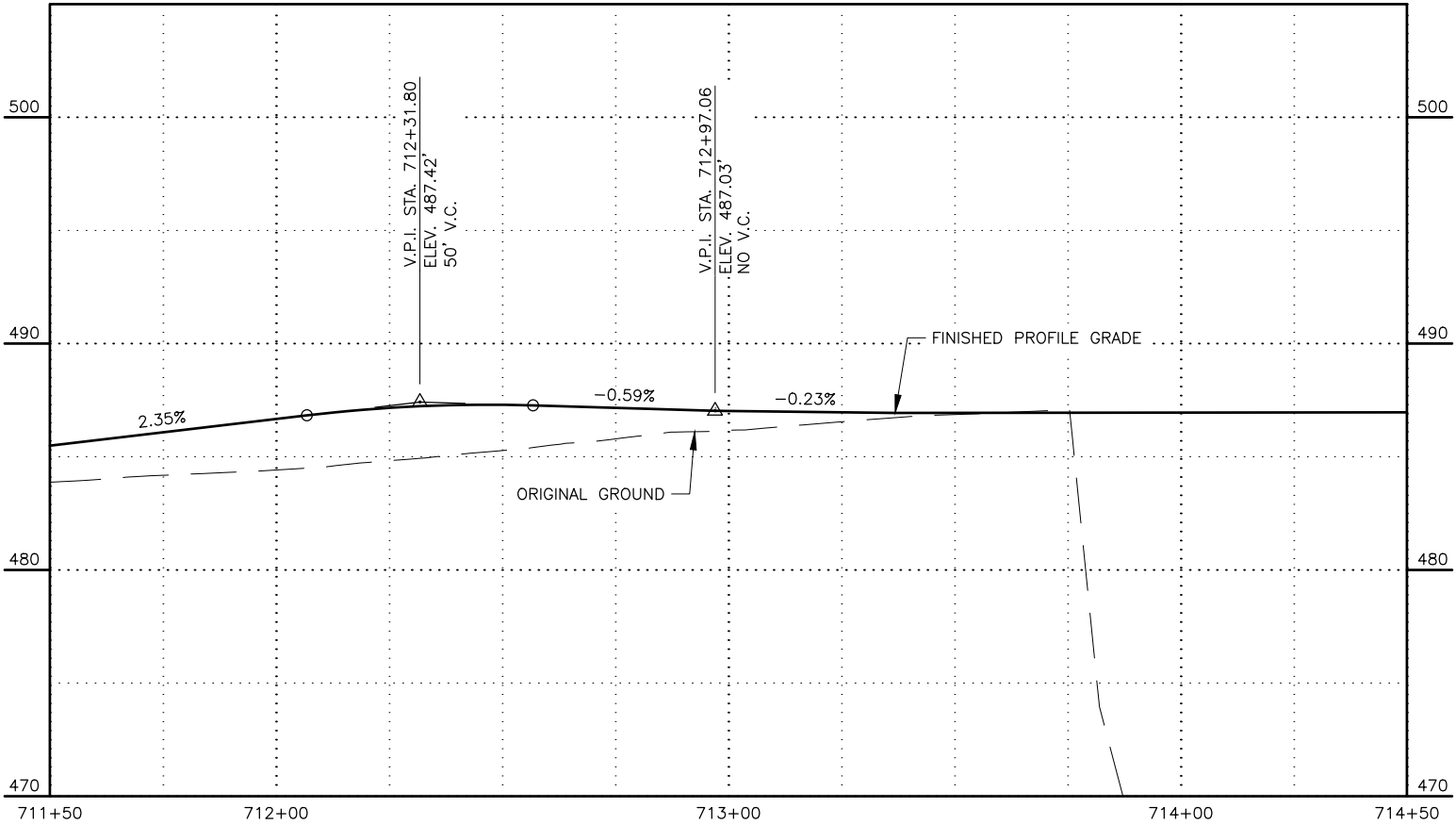
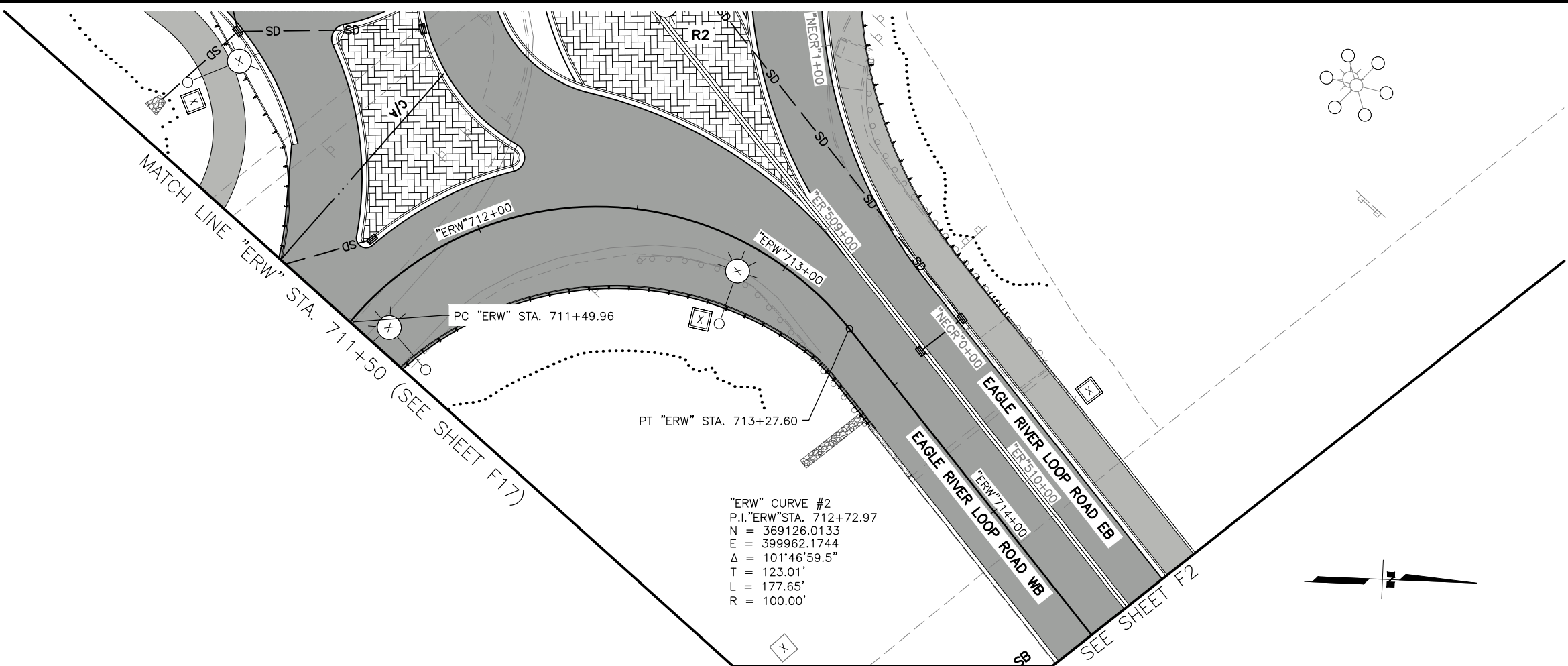
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 706+25 TO
STA 711+50)



SHEET NO.	TOTAL SHEETS
F18	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
OA16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
GLENN HIGHWAY SOUTH
EAGLE RIVER LOOP ROAD
THIS SHEET

PIH REVIEW
ALASKA
407
PROJECT ENGINEER
21
09
2025
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

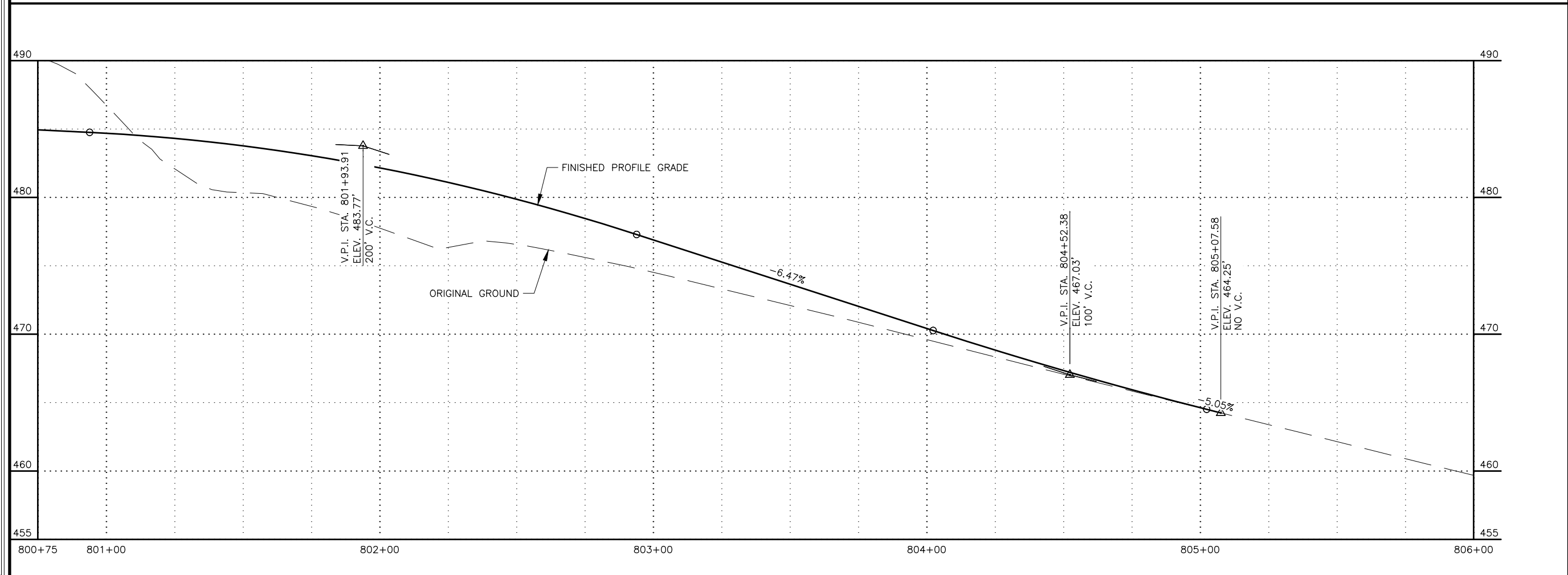
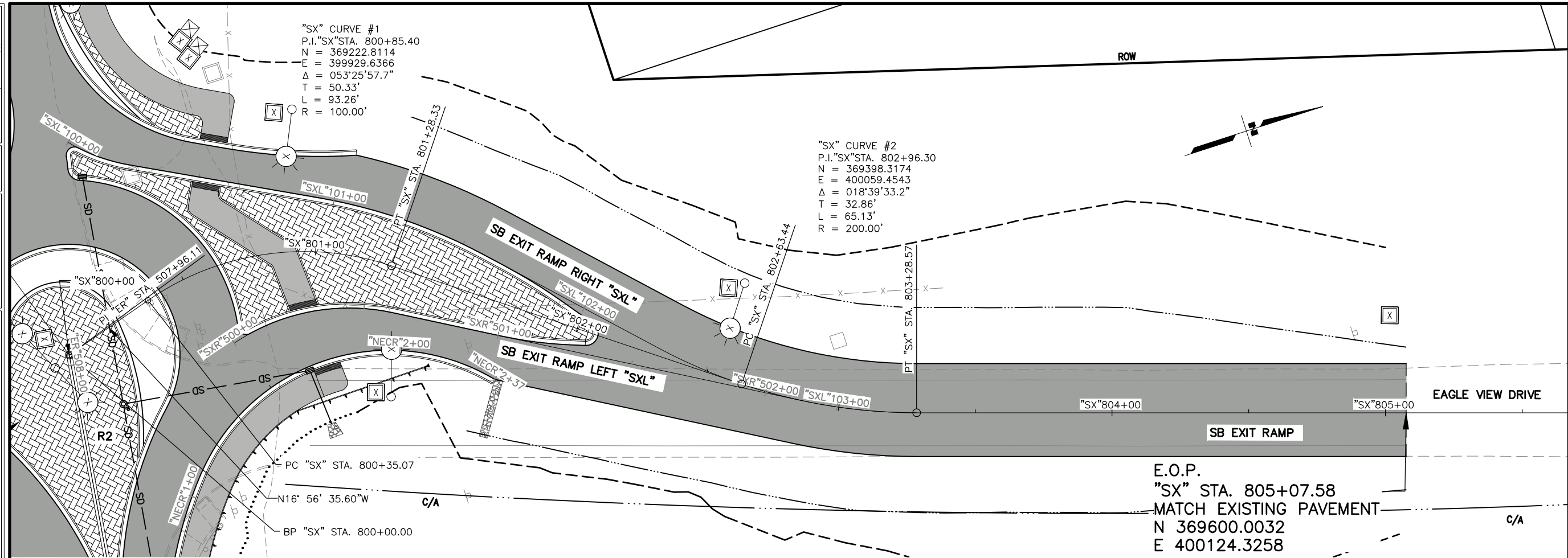
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

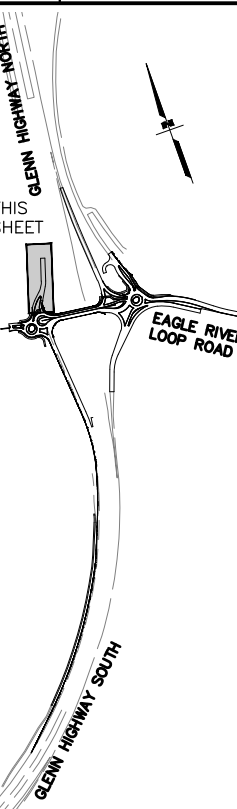
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PLAN & PROFILE
(STA 711+50 TO
STA 714+50.00)

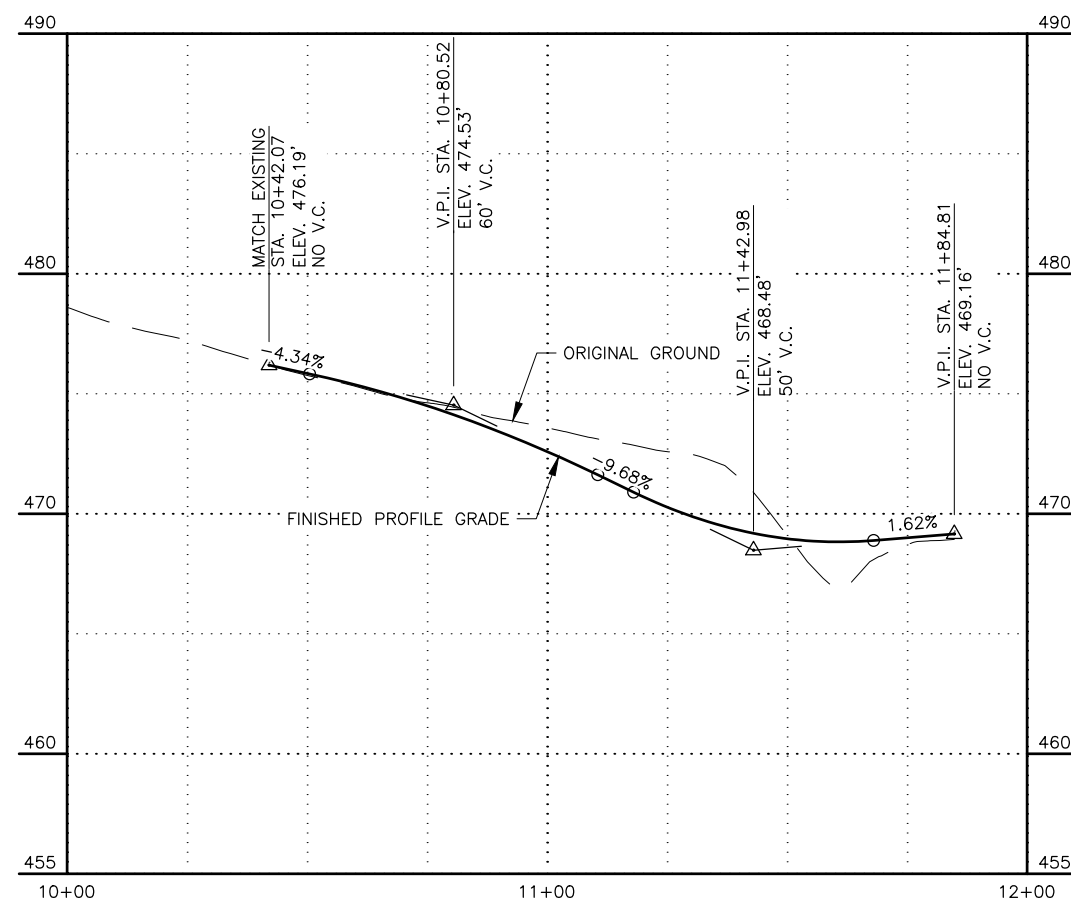
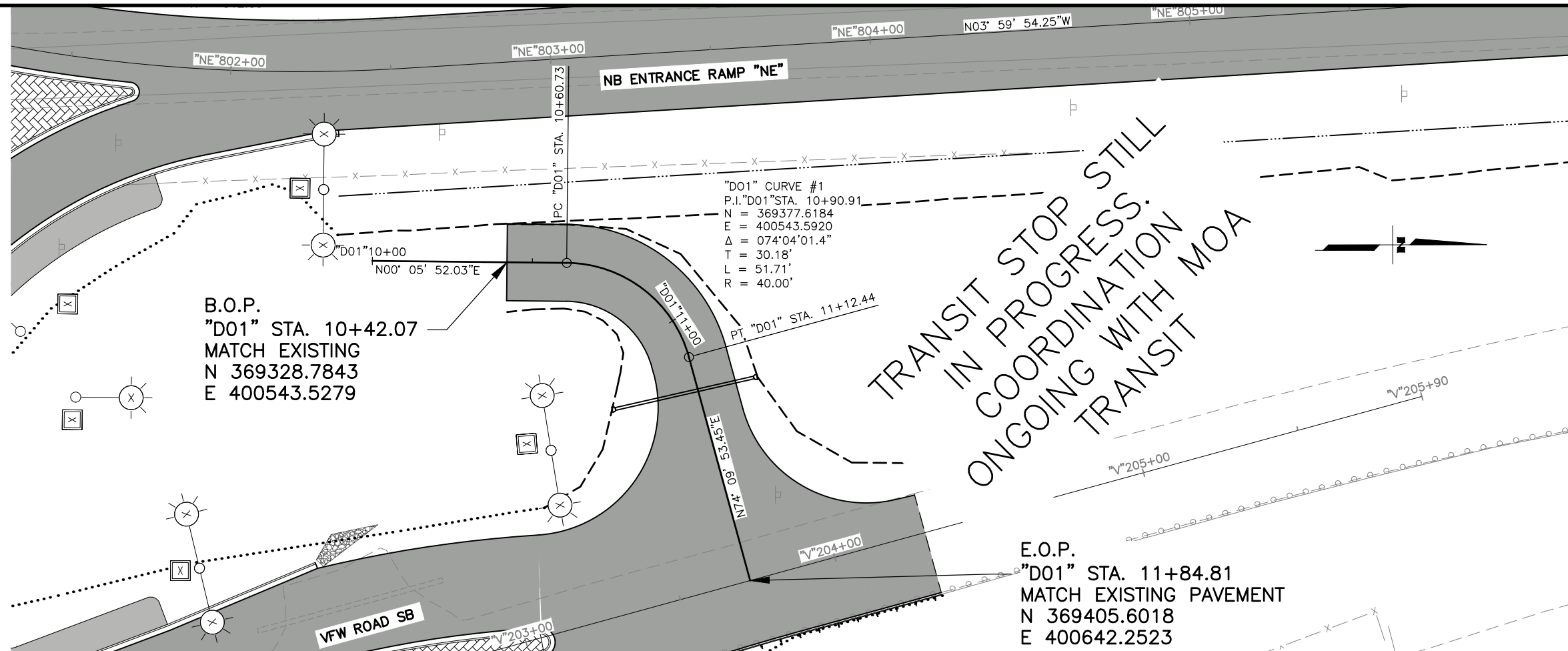
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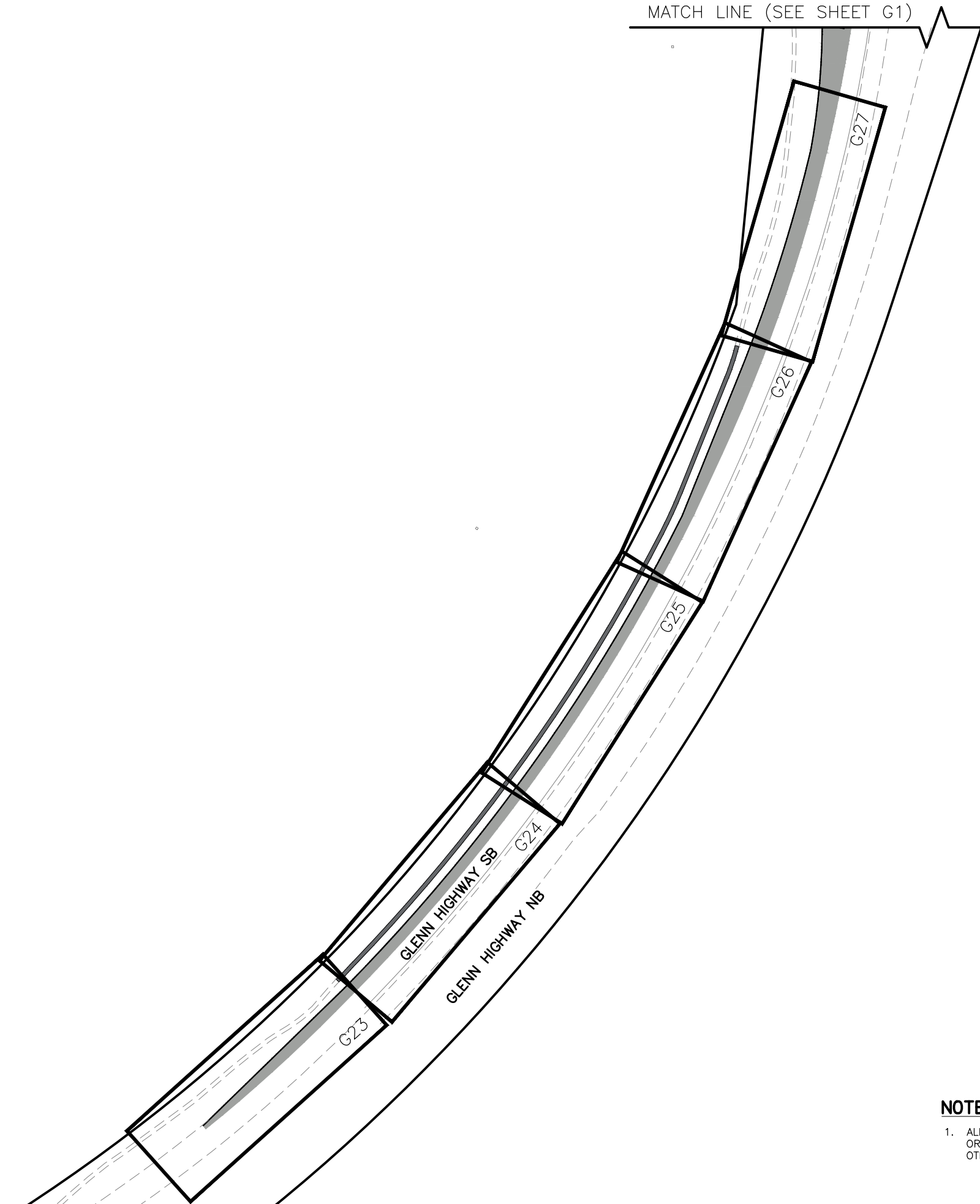


SHEET NO.	TOTAL SHEETS
F19	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
	
	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS	
PLAN & PROFILE (STA 800+75 TO STA 806+00)	

DRAWING LOCATION		DESIGNED BY	AZ
		CHECKED BY	ST
		DRAWN BY	RT
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		DATE	TIME
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SHEET NO.	TOTAL SHEETS
F20	F20
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS PLAN AND PROFILE (STA 10+00 TO STA 12+00)	



NOTES:

1. ALL ELEVATIONS ARE TO EDGE OF PAVEMENT OR CENTER OF DITCH UNLESS SPECIFIED OTHERWISE.



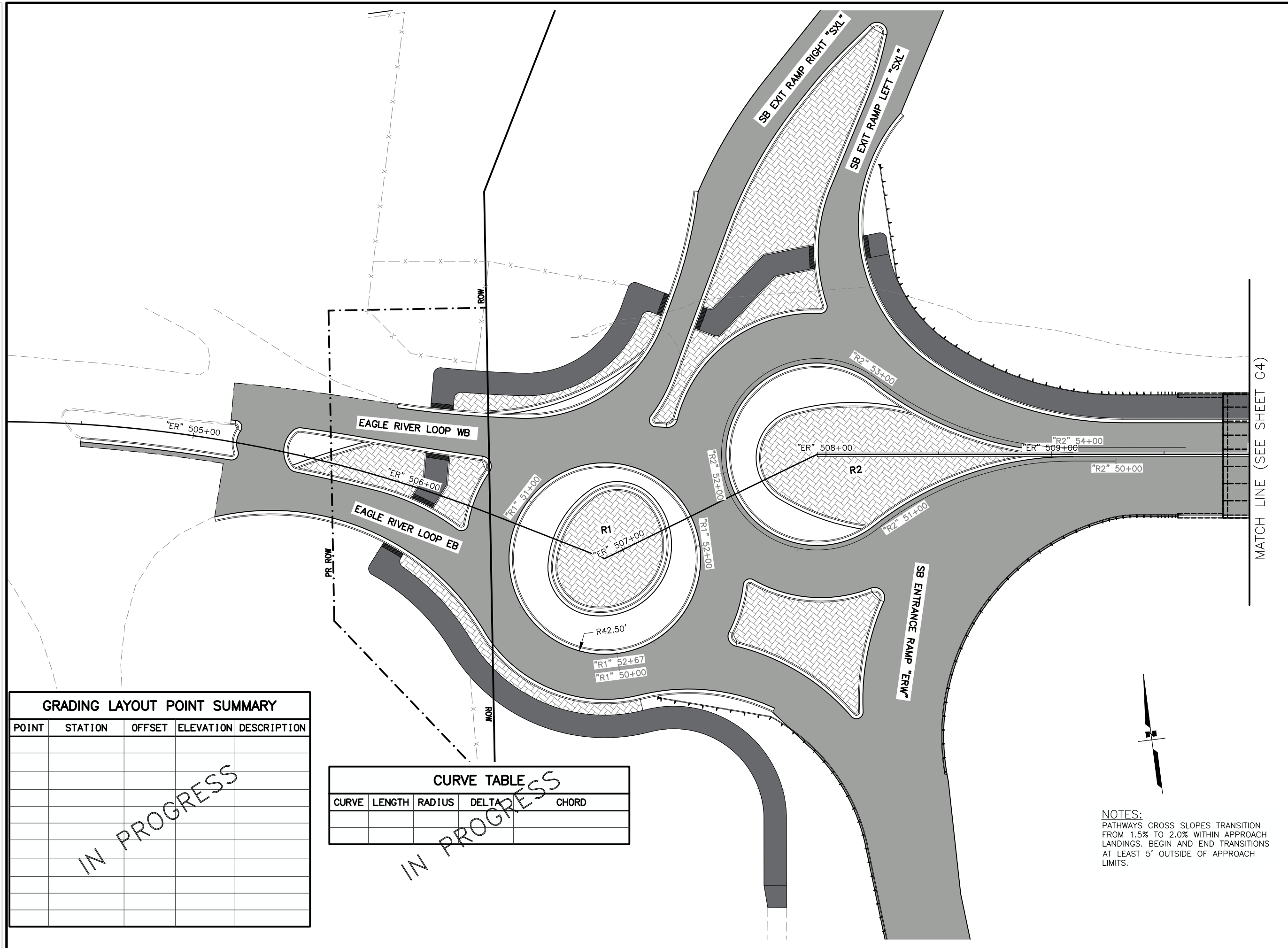
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

GRADING PLAN
SHEET LAYOUT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	G2	G28

DATE	TIME	SCALE	DESIGNED BY	AZ
9/18/2025	1:04 PM	1" = 20'	CHECKED BY	ST
			DRAFTED BY	RT



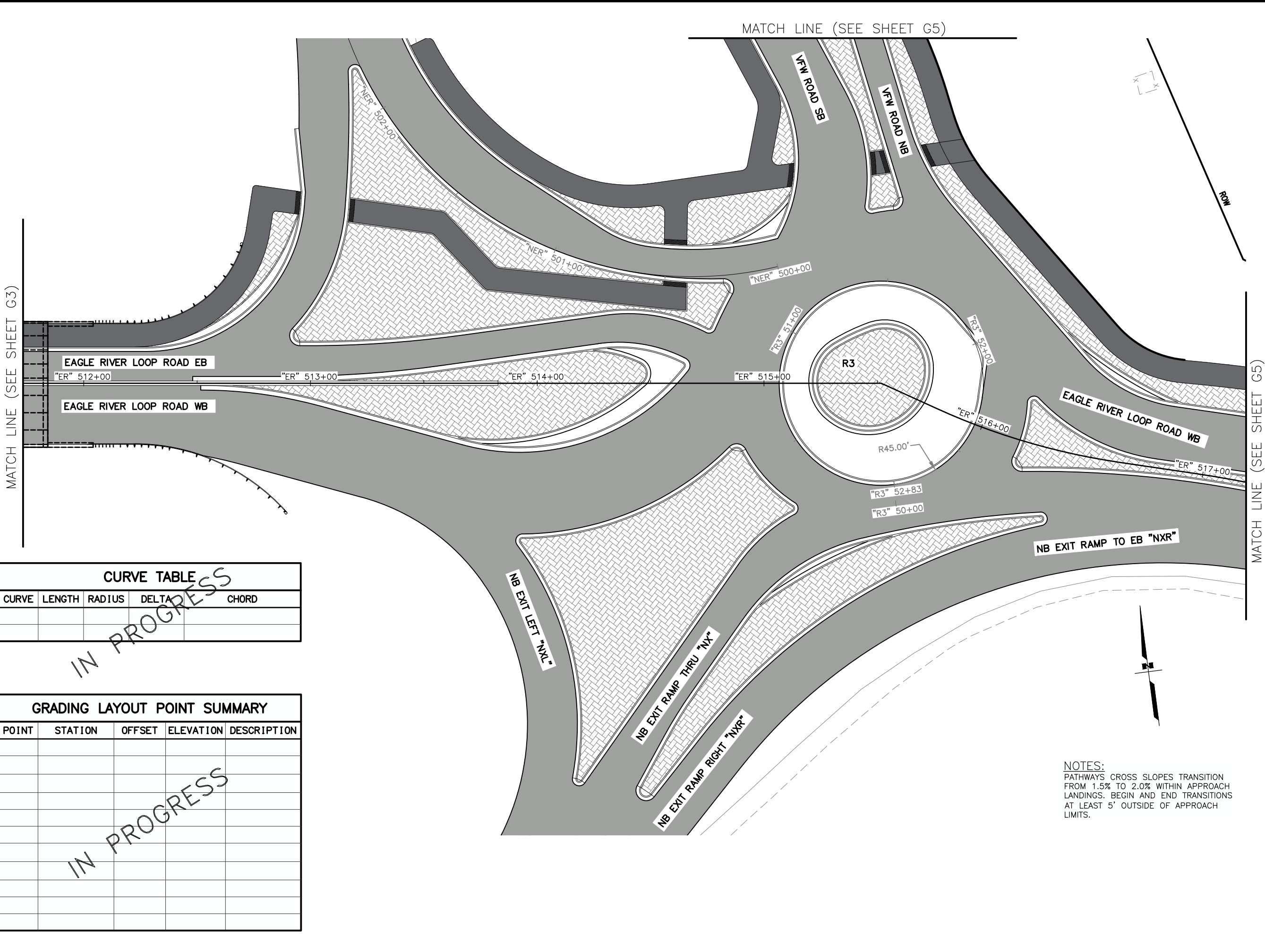
SHEET NO.		TOTAL SHEETS	
G3		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

PIH REVIEW
40TH ANNUAL PROJECT ENGINEER
2015
SEPT 2025
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SPLITTER ISLAND
GRADING PLAN



SHEET NO.	TOTAL SHEETS
G4	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW
SEPT 2025

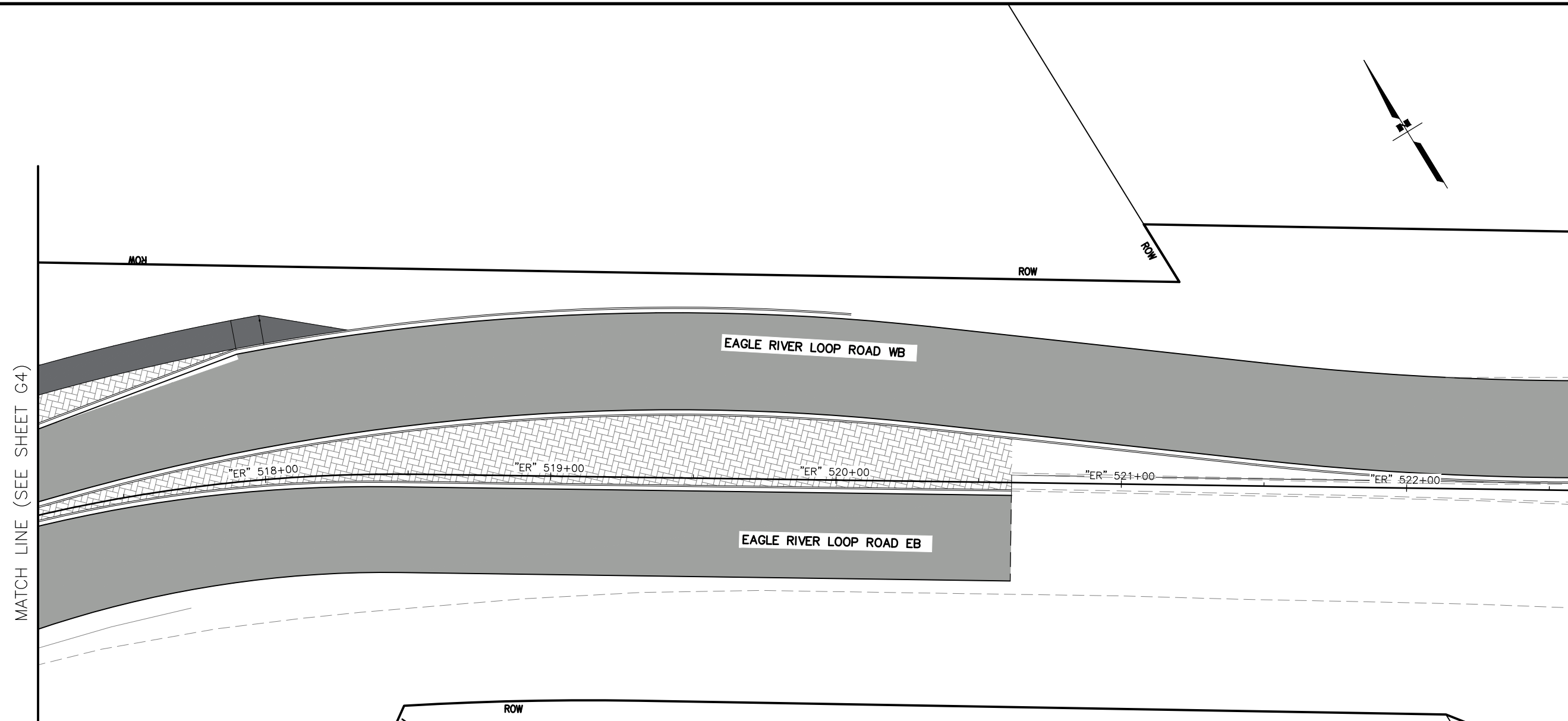
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SPLITTER ISLAND
GRADING PLAN

DATE	TIME	SCALE	DESIGNED BY	AZ
9/18/2025	1:04 PM	1" = 20'	CHECKED BY	ST
			DRAFTED BY	RT

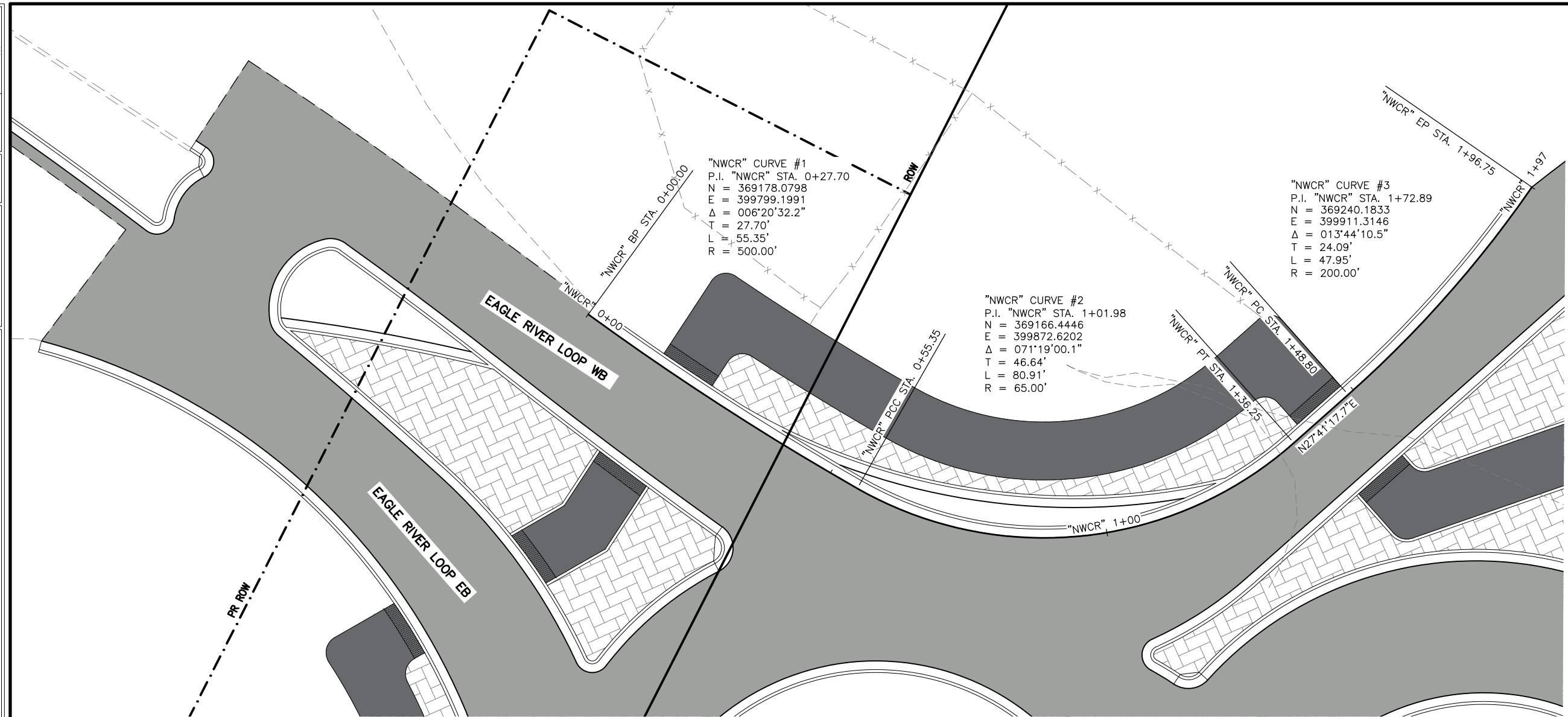


SHEET NO.		TOTAL SHEETS	
G5		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			



PIH REVIEW
SEPT 2025
PROJECT ENVIRONMENTAL
ANCHORAGE, AK 99503
562-2000
AEGLB48

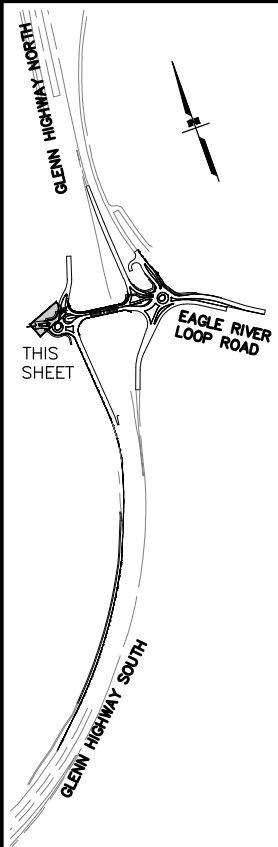
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					RT
					AZ



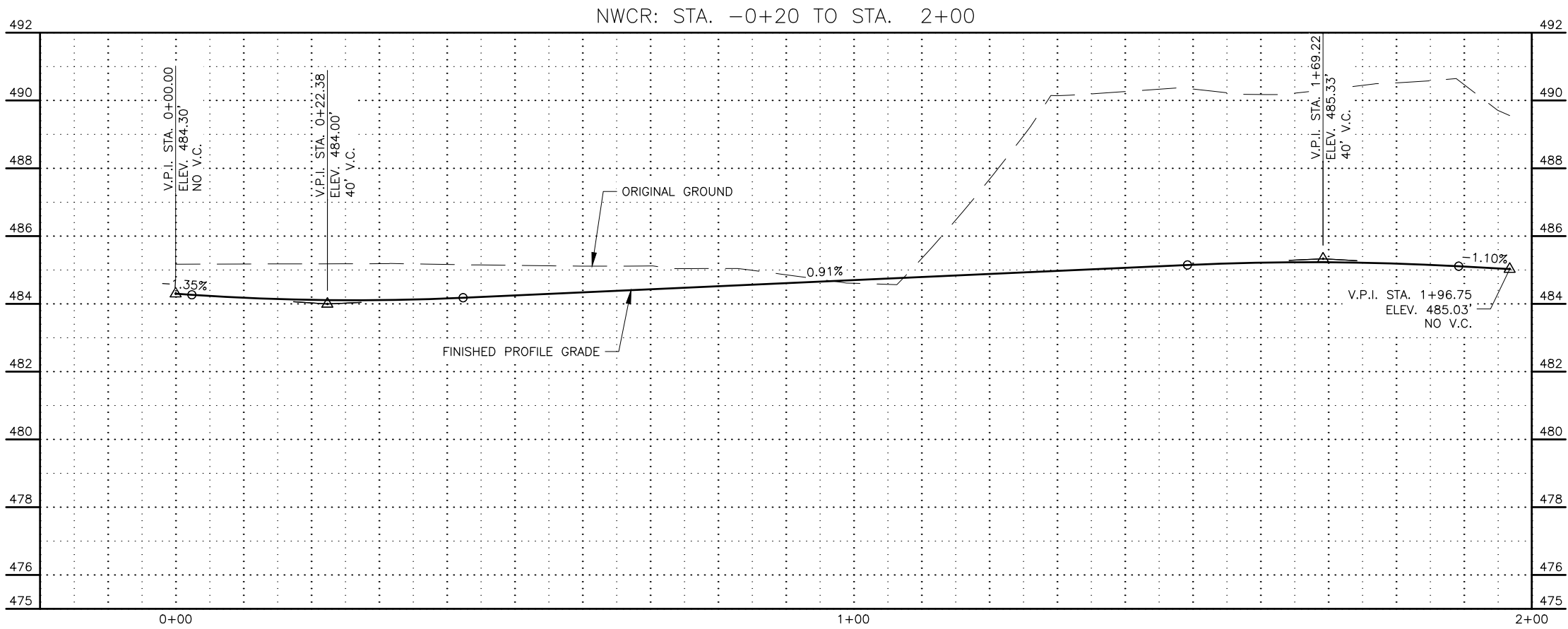
CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

[illegible]

NOTES:
PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.



SHEET NO.	TOTAL SHEETS
G6	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS R1 & R2 NORTHWEST CURB ALIGNMENT (STA 0+00 TO STA 2+00)	



SHEET NO.	TOTAL SHEETS
G7	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
EAGLE RIVER LOOP ROAD
THIS SHEET
GLENN HIGHWAY SOUTH

PIH REVIEW
SEPT 2025

PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R1 & R2 NORTHWEST
CURB PROFILE (STA 0+00
TO STA 2+00)

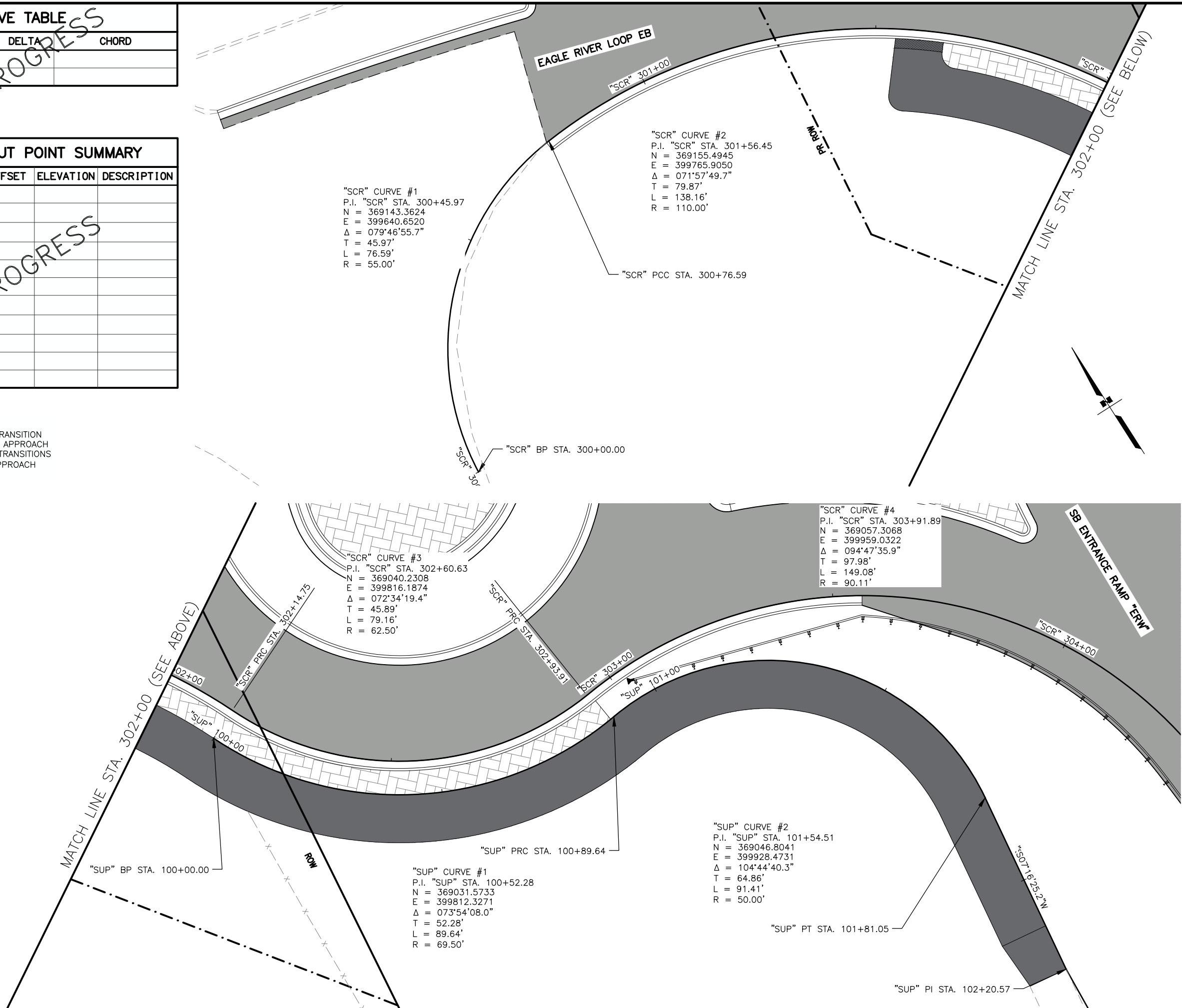
DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
C:\DOWL_PW\00419381\00917_G01_GRAB.DWG		9/18/2025	1:05 PM	1" = 10'	CHECKED BY
					ST
					DRAFTED BY
					RT
					AZ

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

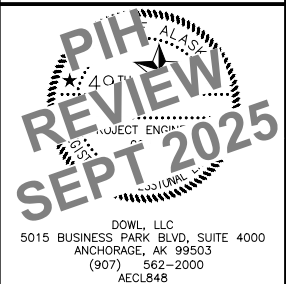
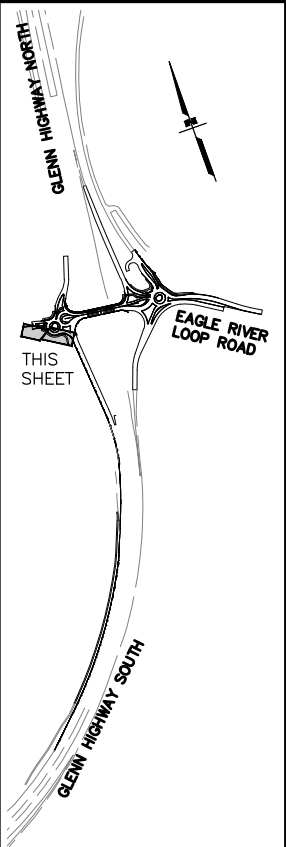
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NOTES:

PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.



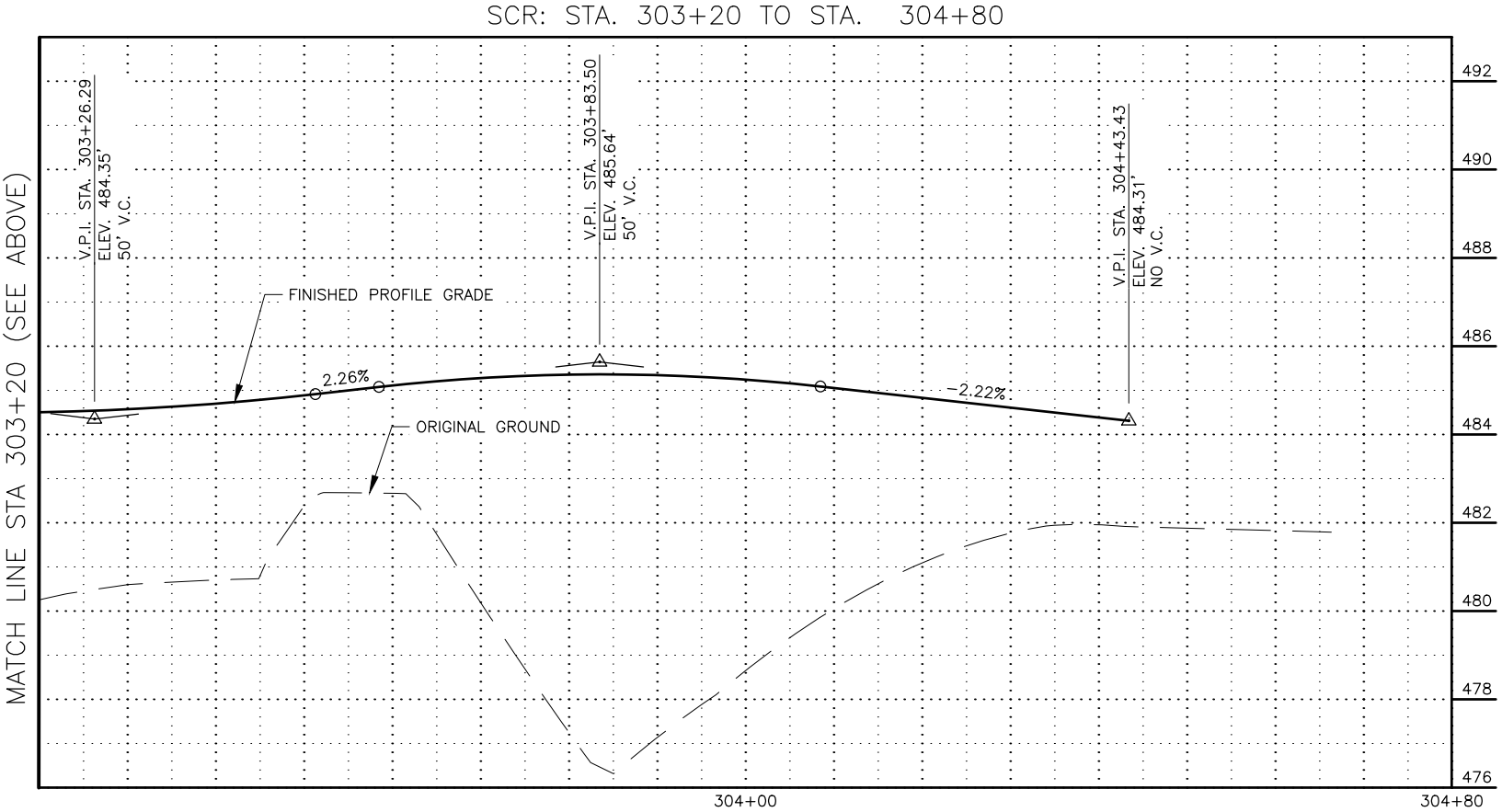
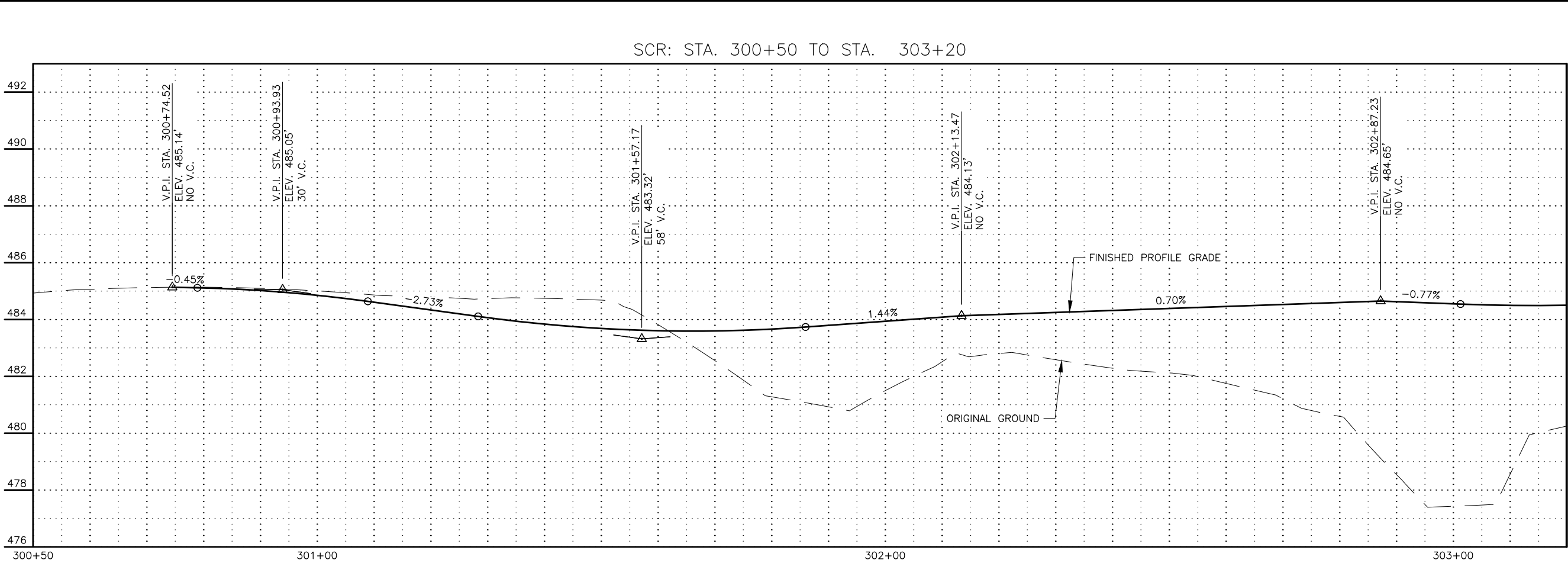
SHEET NO.		TOTAL SHEETS	
G8		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.			
DATE			
NO.	REVISION		
DATE			
NO.			
DATE			
NO.	REVISION		
DATE			
NO.			
DATE			



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

**R1 & R2 SOUTH CURB
AND PATH ALIGNMENT
(STA 300+50 TO STA
304+80)**



SHEET NO.	TOTAL SHEETS
G9	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW
SEPT 2025

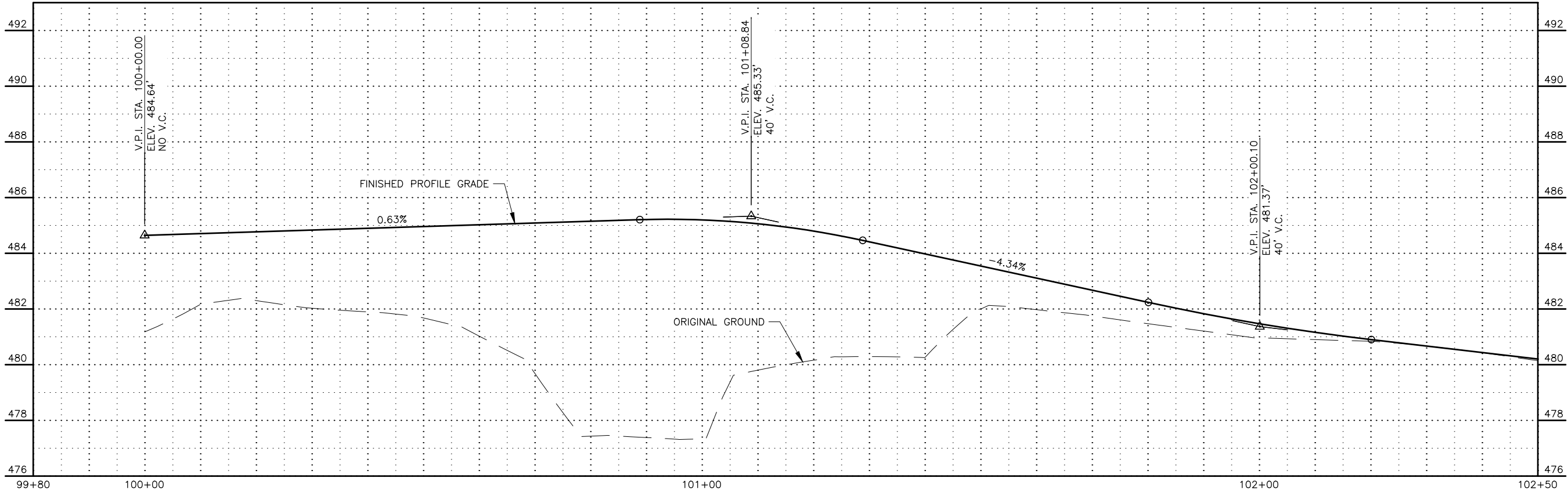
ANCHORAGE, AK 99503
(907) 562-2000
AEC1848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

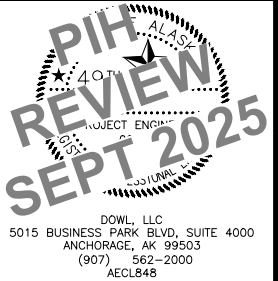
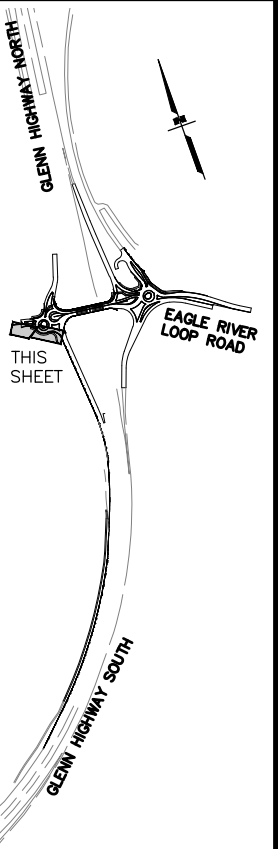
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R1 & R2 SOUTH CURB
PROFILE (STA 300+50 TO
STA 304+80)

SUP: STA. 99+80 TO STA. 102+50



SHEET NO.	TOTAL SHEETS
G10	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

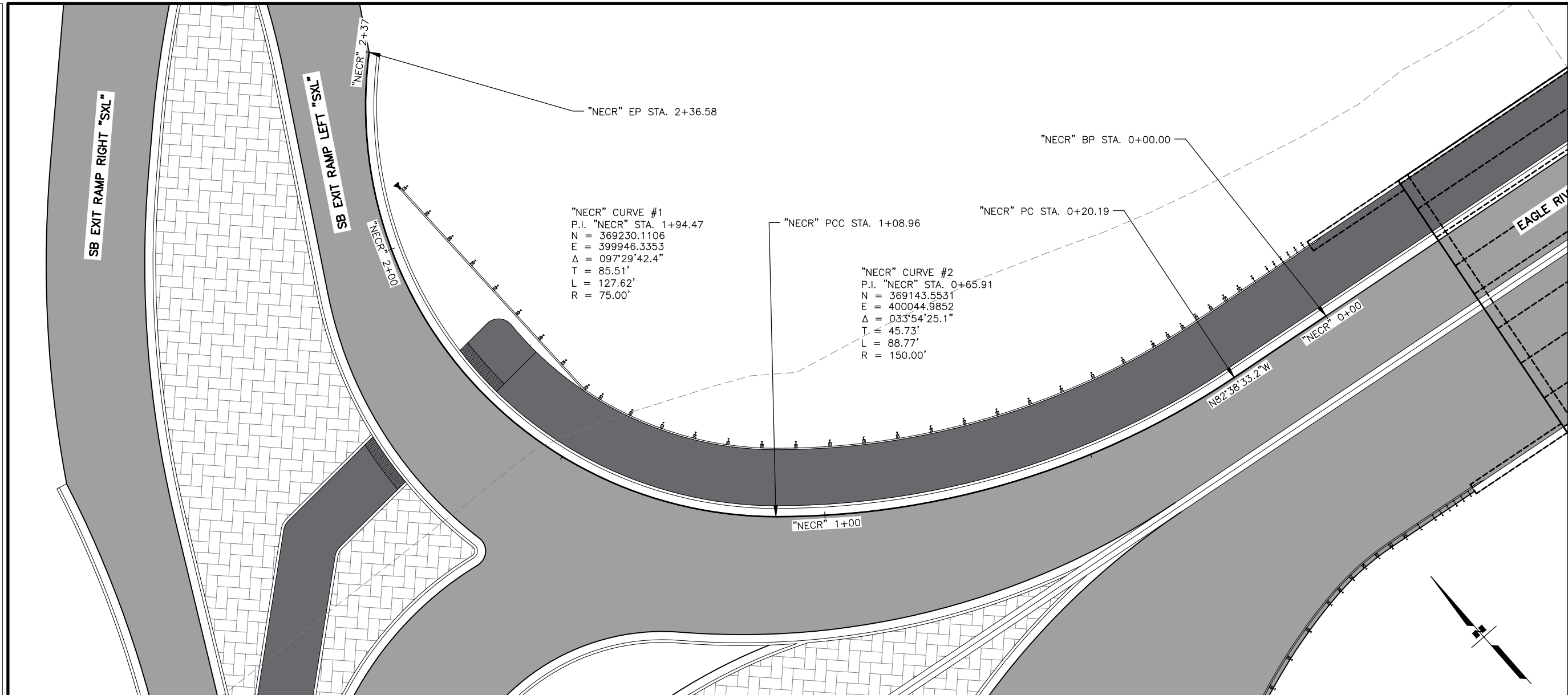


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R1 & R2 SOUTH PATH
PROFILE (STA 99+80 TO
STA 102+50)

DATE	TIME	SCALE	DESIGNED BY	AZ
9/18/2025	1:05 PM	1" = 10'	CHECKED BY	ST
			DRAFTED BY	RT



SHEET NO.		TOTAL SHEETS	
G11		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.			
DATE			
NO.	REVISION		
DATE			
NO.			
DATE			
NO.	REVISION		
DATE			
NO.			
DATE			

NOTES:
PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.



PIH REVIEW
ALASKA
4074
PROJECT ENGINEER
09/01/2025
SEPT 2025
33100000

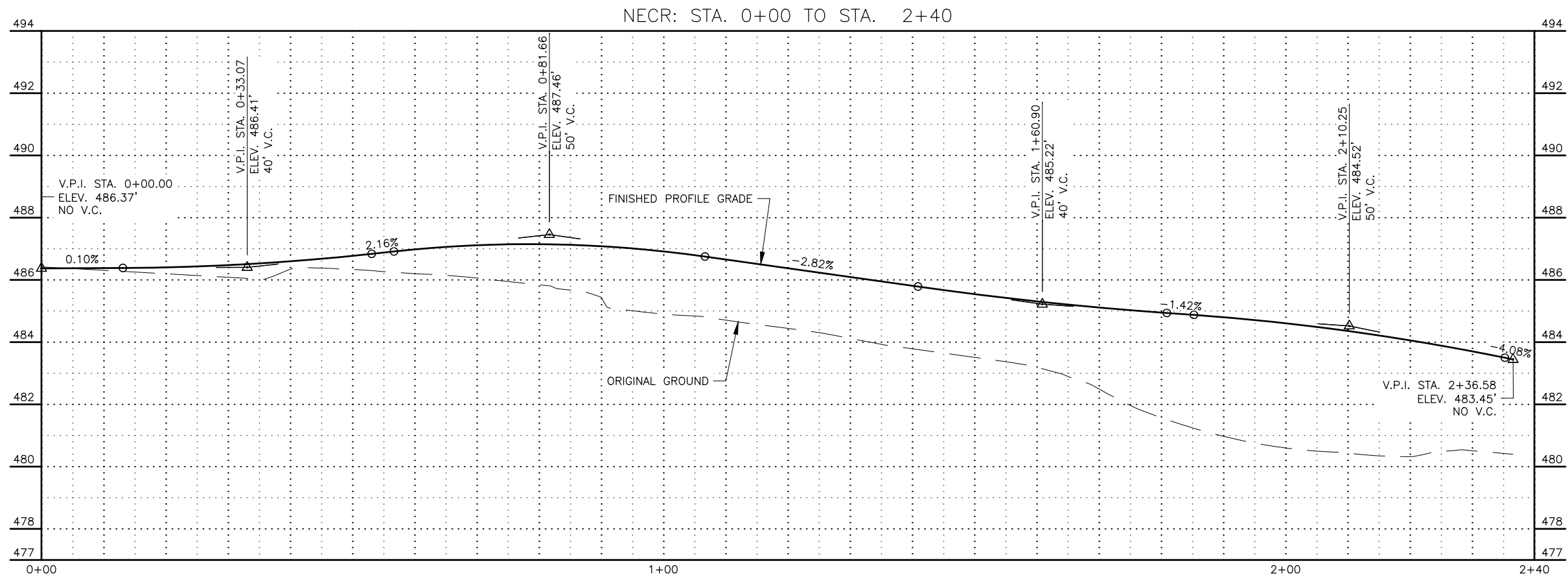
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R1 & R2 NORTHEAST
CURB ALIGNMENT (STA
0+00 TO STA 2+40)

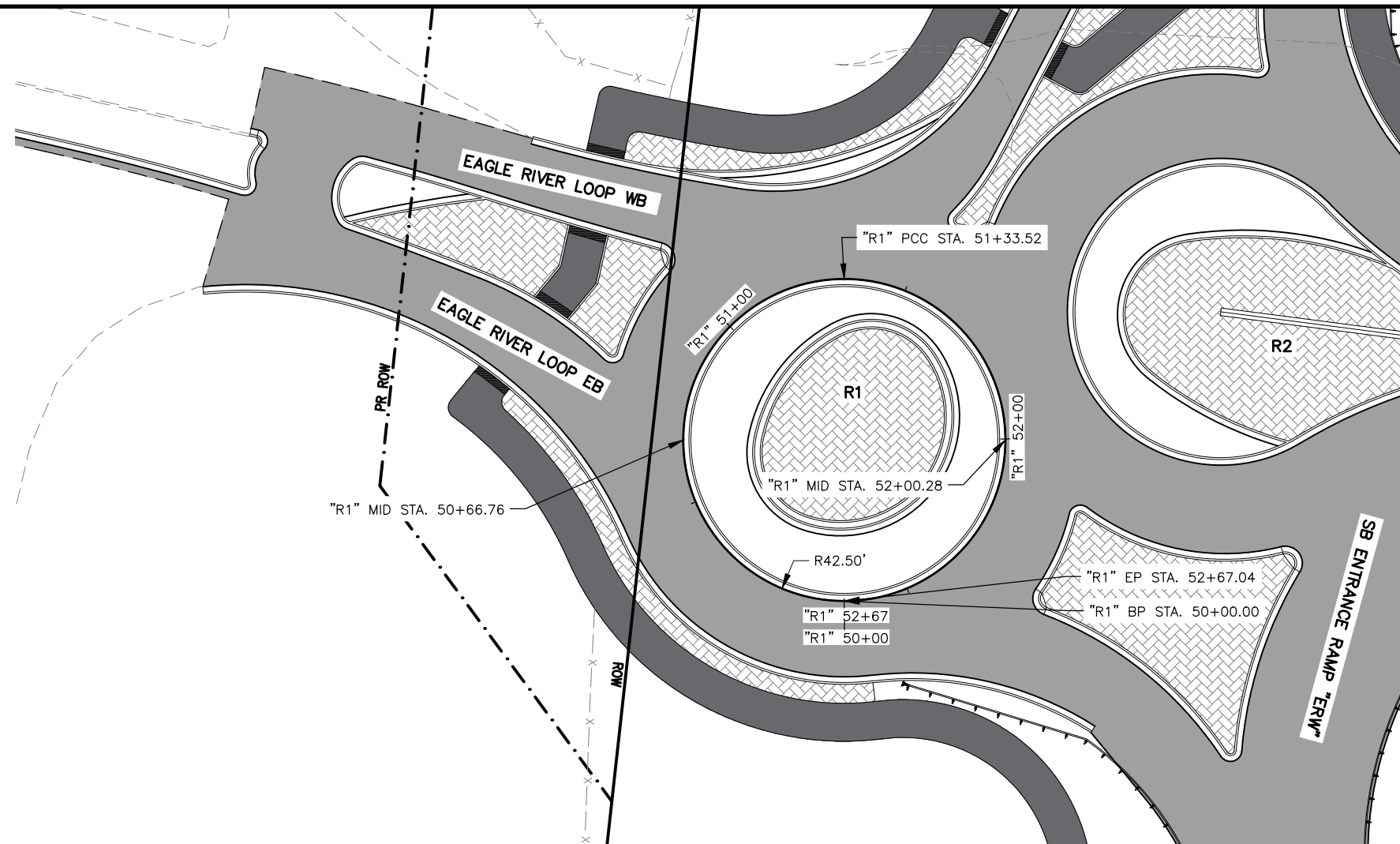
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SHEET NO.	TOTAL SHEETS
G12	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

DATE	TIME	SCALE	DESIGNED BY	AZ
9/18/2025	1:06 PM	1" = 20'	CHECKED BY	ST
			DRAFTED BY	RT

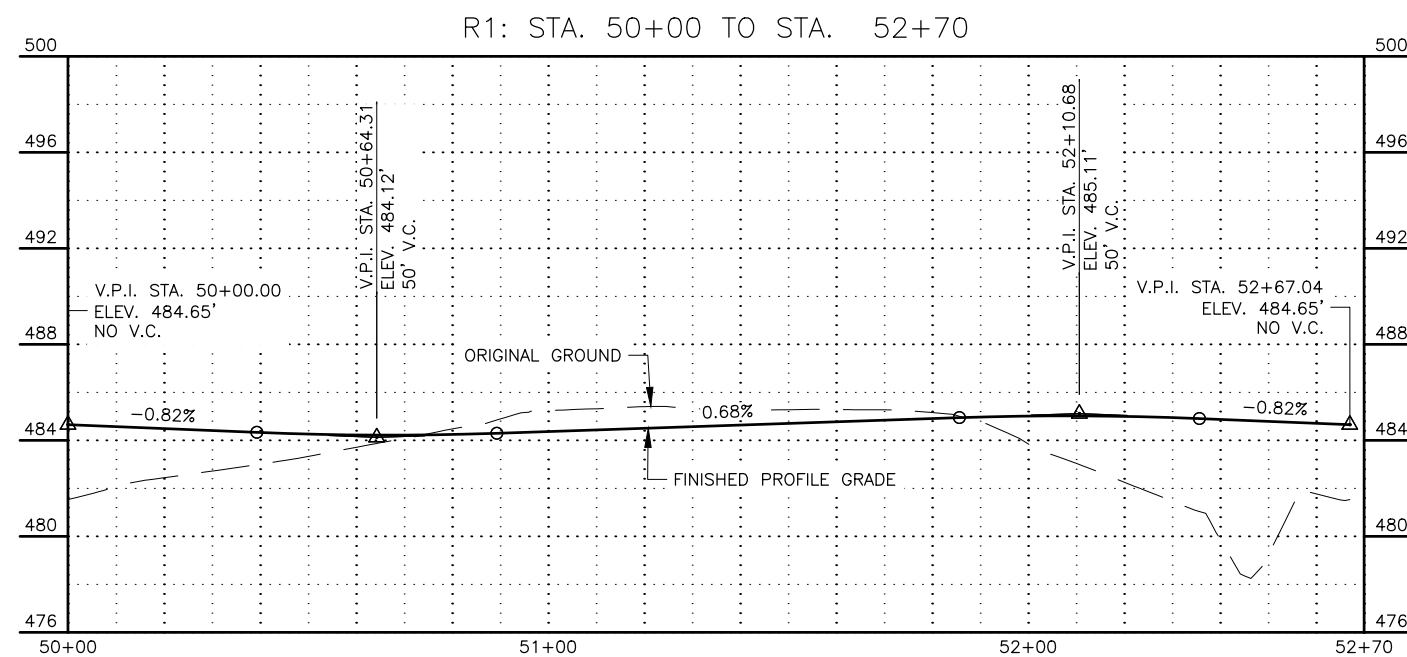
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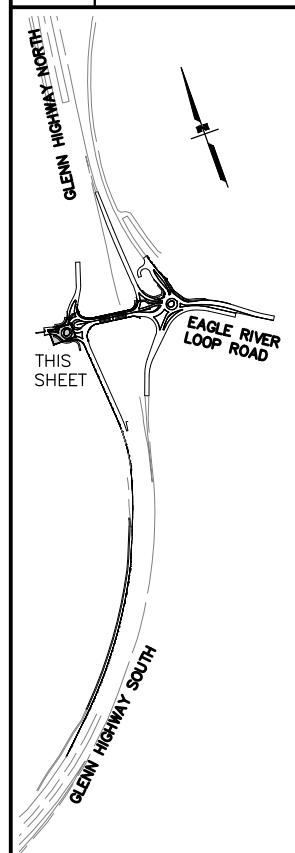
CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

[illegible]

NOTES:
PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.



SHEET NO.		TOTAL SHEETS	
G13		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			



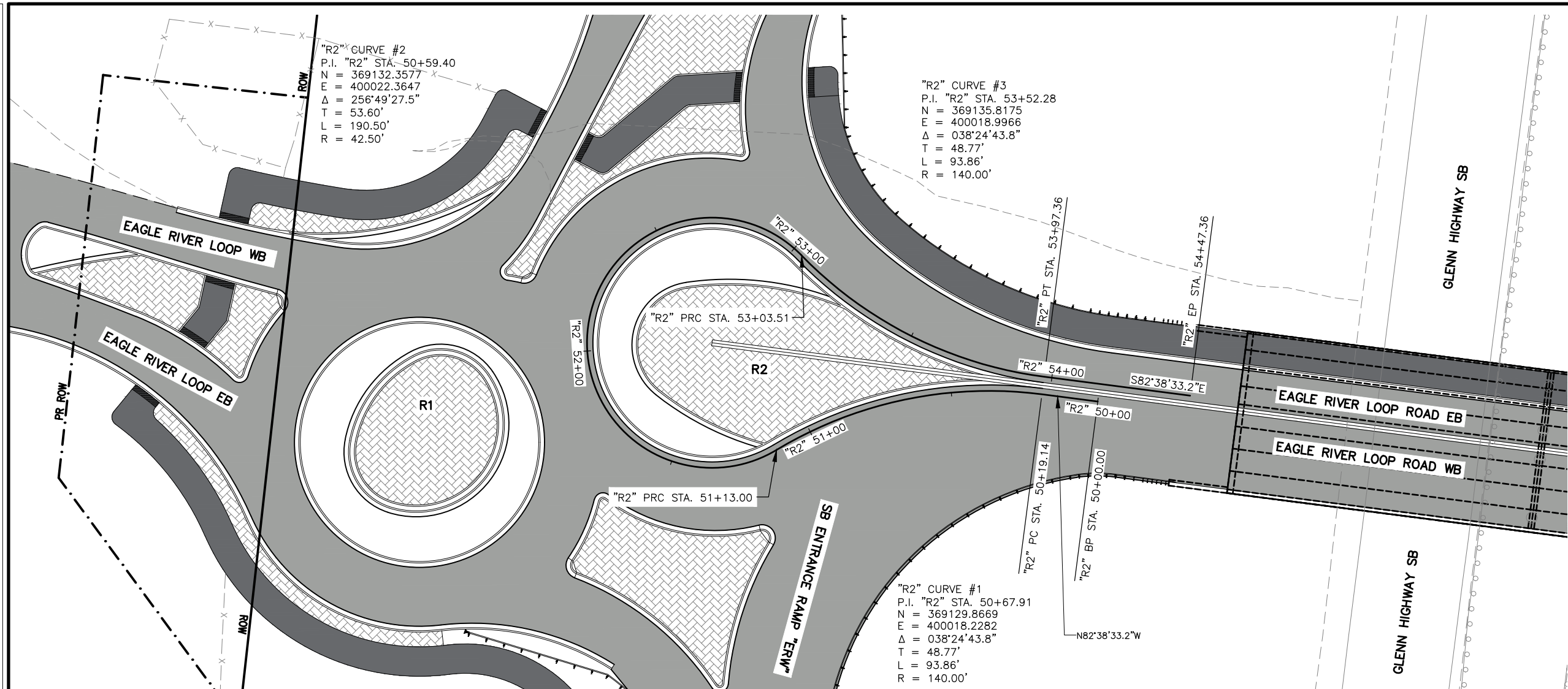
PIH ALASKA
REVIEW
40%
PROJECT ENGINEER
SEPT 2025
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R1 CIRCULATORY PLAN
AND PROFILE (STA
50+00 TO STA 52+70)

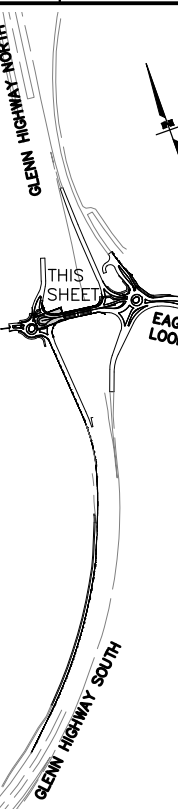
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C:\DOWL_P\DWG\041938\100917_G01_GRAD.DWG		9/18/2025	1:06 PM	1" = 20'	CHECKED BY
					DRAFTED BY
					AZ
					RT

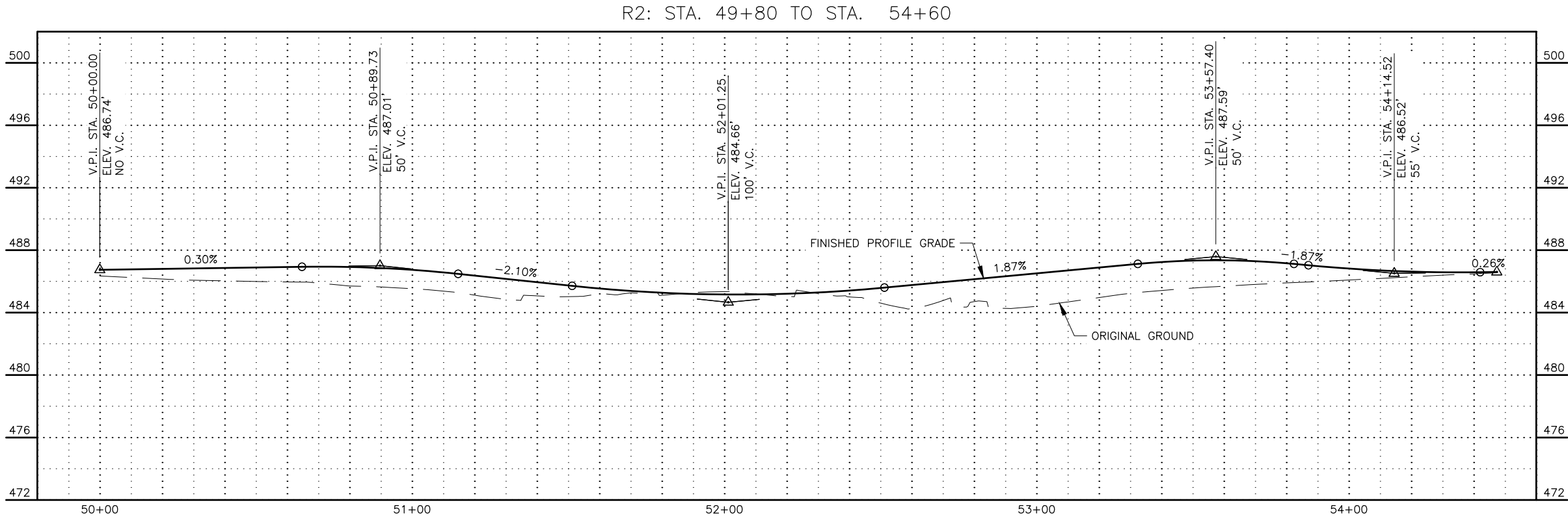


CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

[illegible]

NOTES:
PATHWAYS CROSS SLOPES TRANSITION
FROM 1.5% TO 2.0% WITHIN APPROACH
LANDINGS. BEGIN AND END TRANSITIONS
AT LEAST 5' OUTSIDE OF APPROACH
LIMITS.

SHEET NO.	TOTAL SHEETS
G14	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
	
	
DOWL, LLC 5015 BUSINESS PARK BLVD, SUITE 4000 ANCHORAGE, AK 99503 (907) 562-2000 AECL848	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS	
R2 CIRCULATORY PLAN (STA 50+00 TO STA 54+50)	



SHEET NO.	TOTAL SHEETS
G15	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW

SEPT 2025

ANCHORAGE, AK 99503

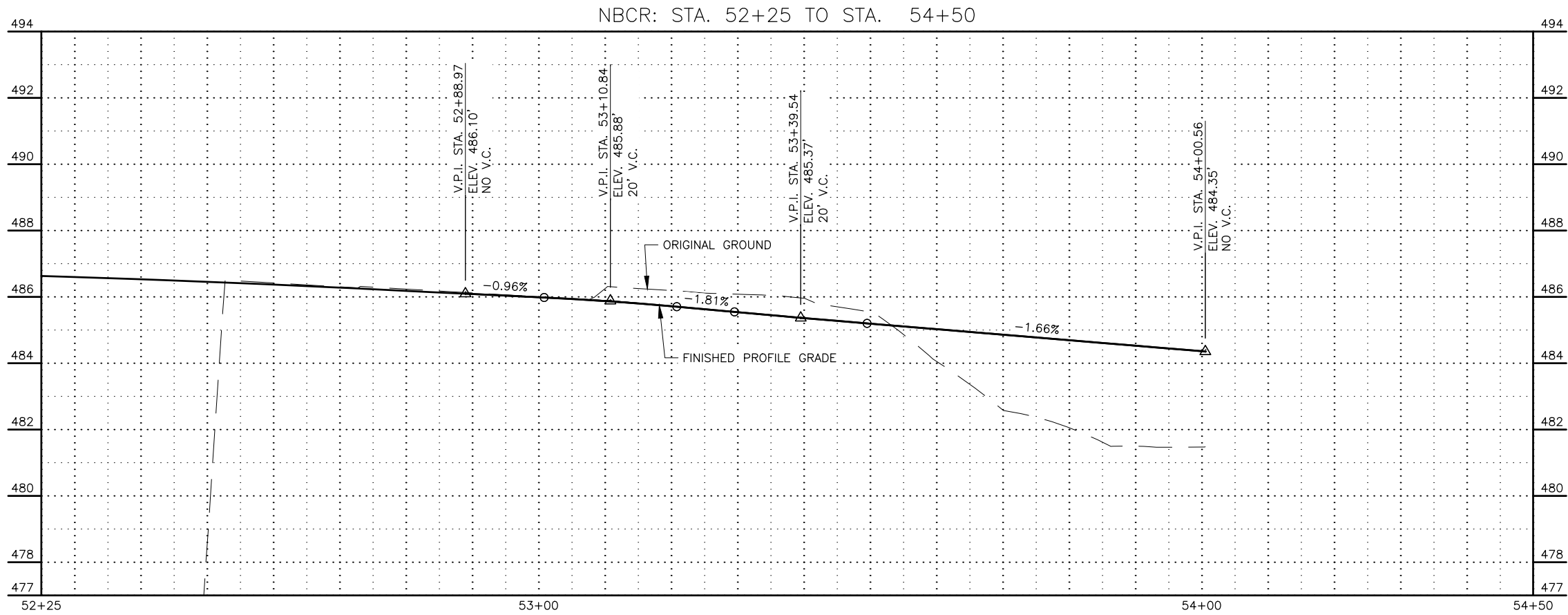
562-2000

AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R2 CIRCULATORY PROFILE
(STA 50+00 TO STA 54+50)



SHEET NO.	TOTAL SHEETS
G17	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

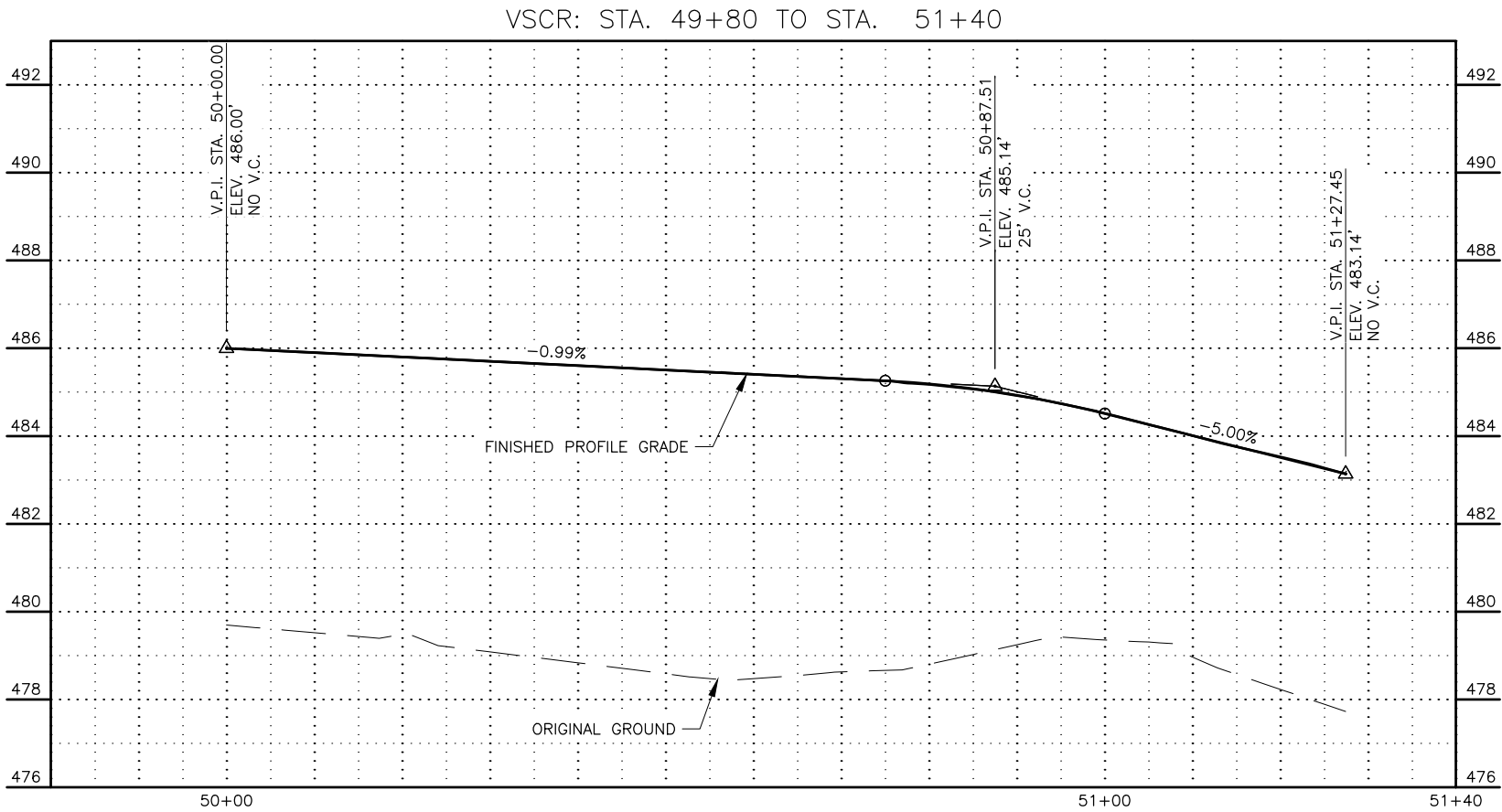
PIH REVIEW
SEPT 2025

PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R3 GH NB ENTRANCE
CURB PROFILE (STA
52+25 TO STA 54+50)



SHEET NO.	TOTAL SHEETS
G19	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

THIS SHEET

EAGLE RIVER LOOP ROAD

GLENN HIGHWAY SOUTH

PIH REVIEW
SEPT 2025

ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

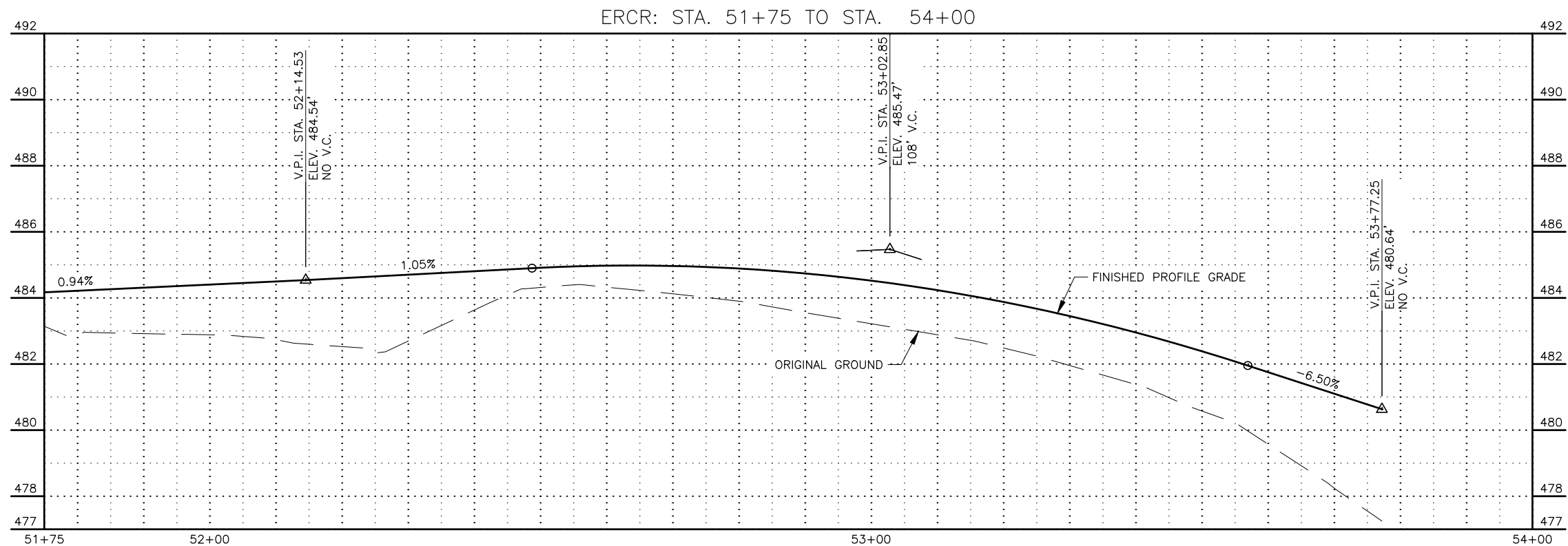
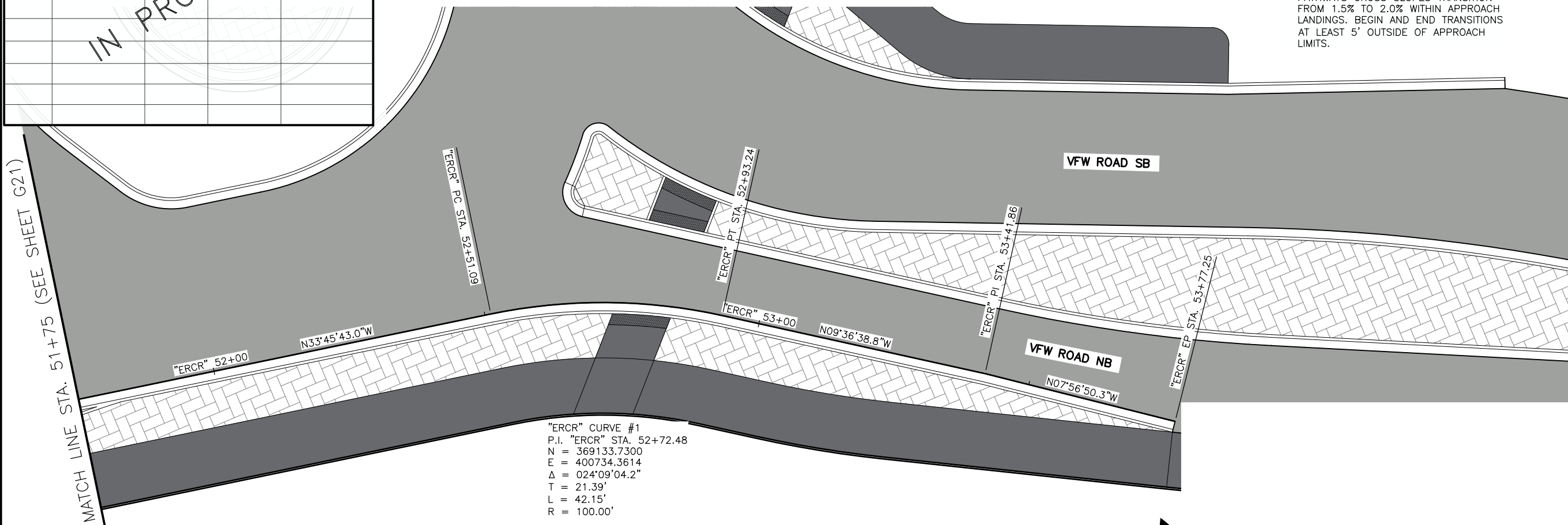
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R3 NORTHWEST CURB
PROFILE (STA 49+80 TO
STA 51+40)

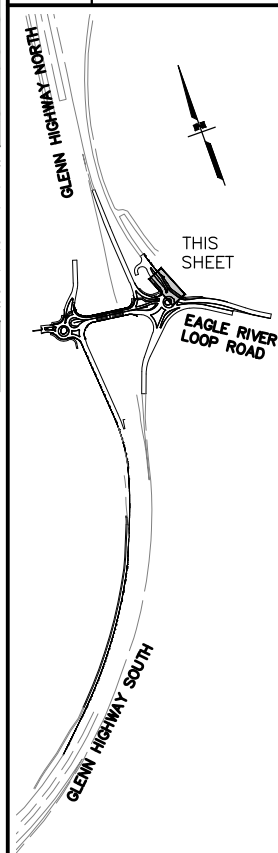
DRAWING LOCATION		DESIGNED BY	AZ
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		DRAFTED BY	RT
C:\DOWL_PW\00419381\00917_G01_GRAD.DWG		SCALE	1" = 10'
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		TIME	

[illegible]

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD



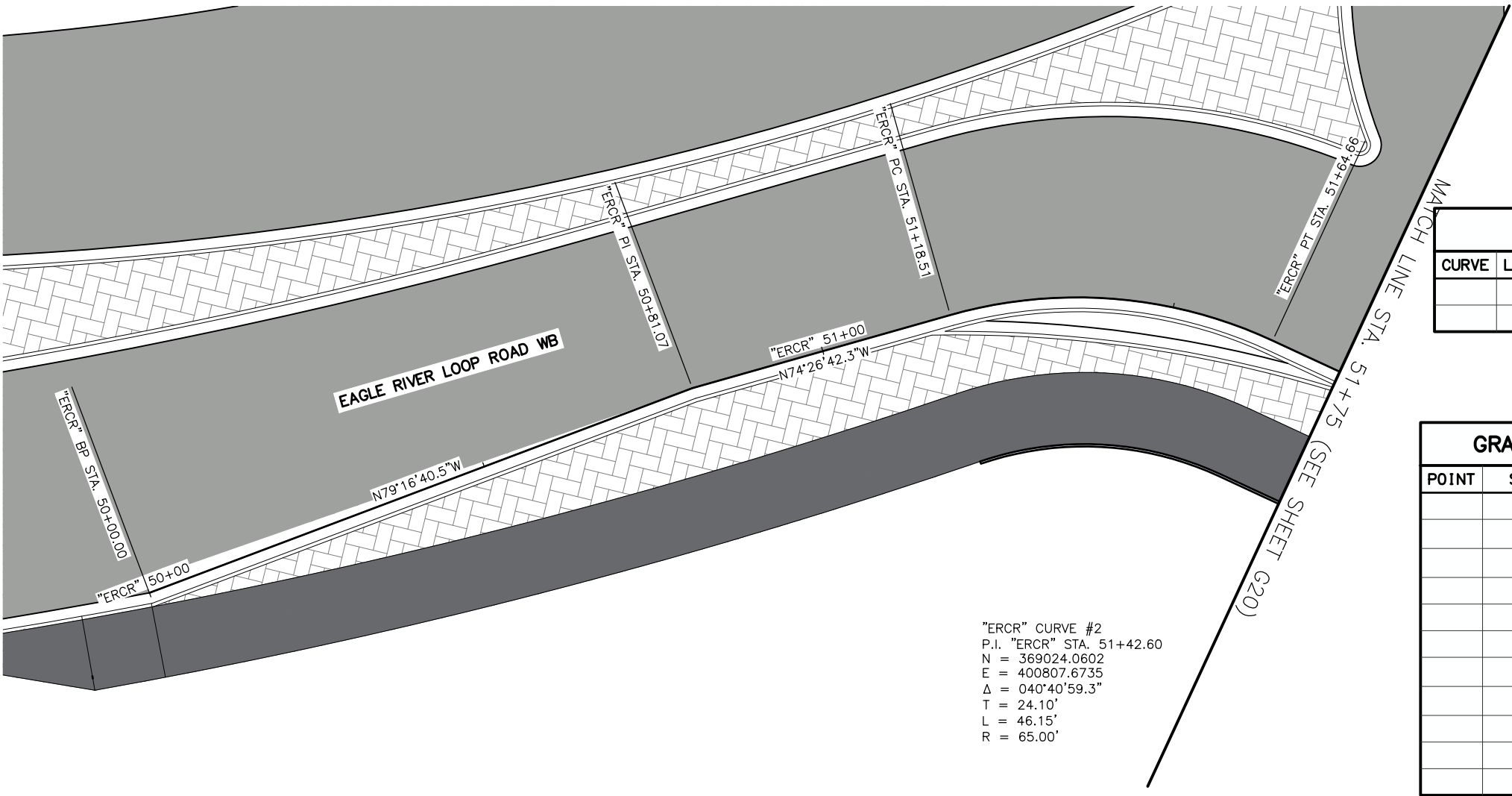
SHEET NO.		TOTAL SHEETS	
G20		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

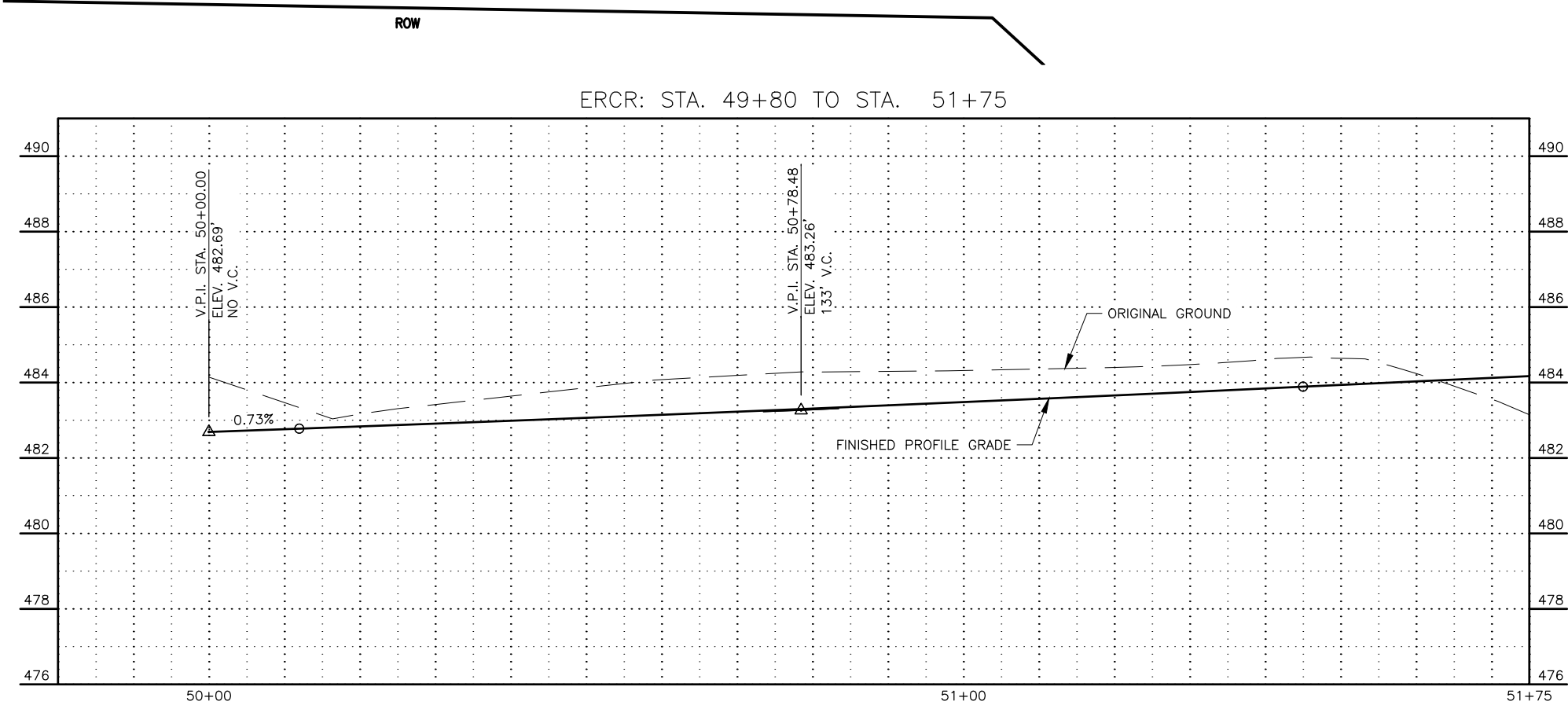
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R3 NORTHEAST CURB
ALIGNMENT AND PROFILE
(STA 51+75 TO STA
54+00)

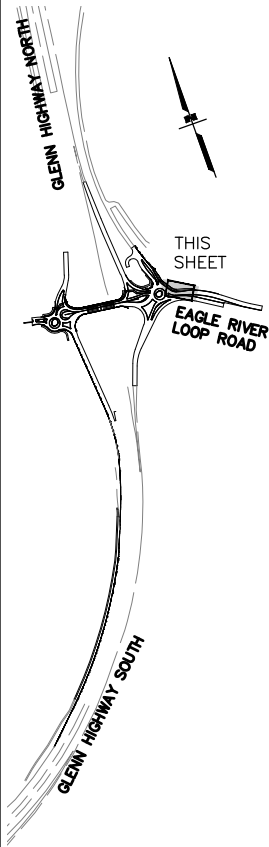


CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

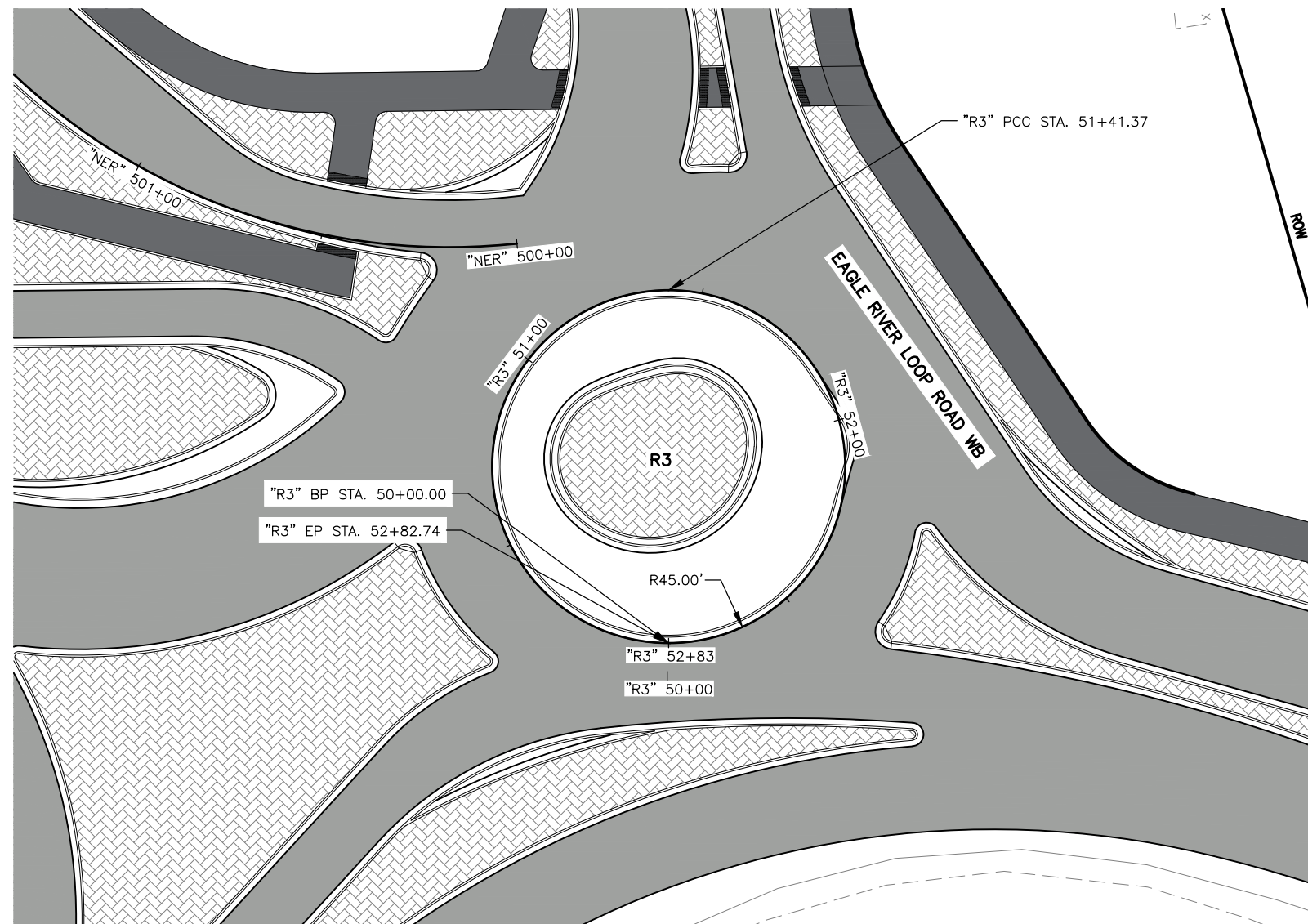
GRADING LAYOUT POINT SUMMARY				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION



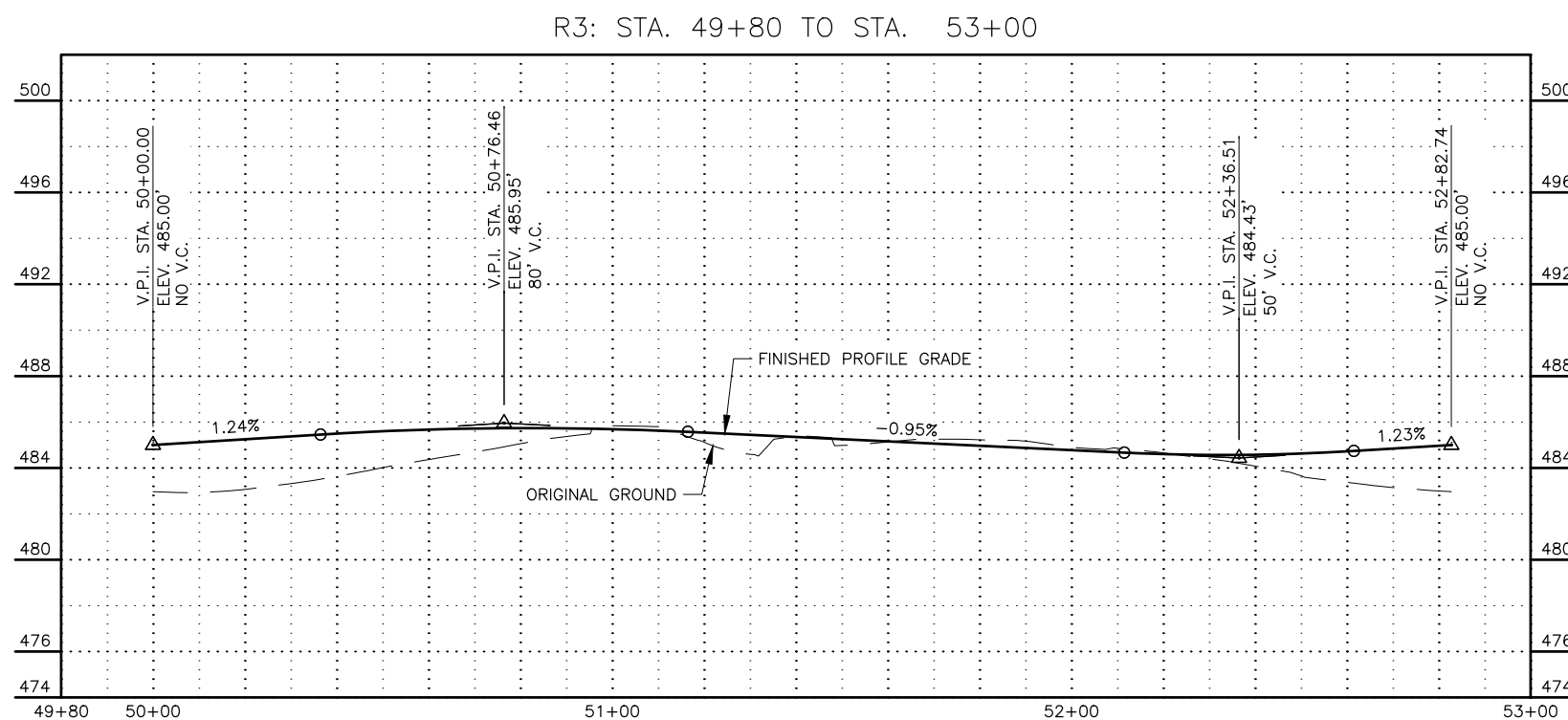
NOTES:
PATHWAYS CROSS SLOPES TRANSITION
FROM 1.5% TO 2.0% WITHIN APPROACH
LANDINGS. BEGIN AND END TRANSITIONS
AT LEAST 5' OUTSIDE OF APPROACH
LIMITS.



DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
C:\DOWL_PW\00419381\00917_G01_GRAD.DWG		9/18/2025	1:07 PM	1" = 20'	CHECKED BY
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					RT

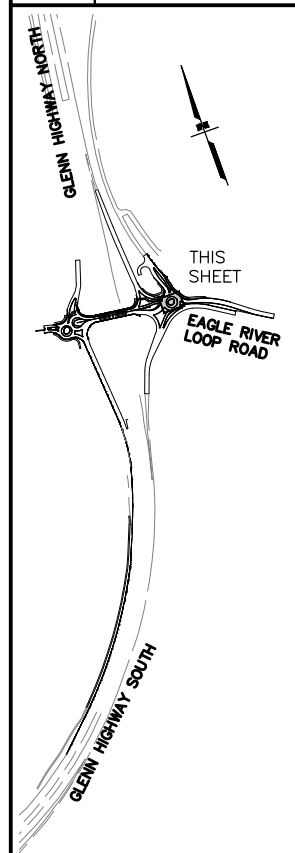


CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

[illegible]

NOTES:
PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.

SHEET NO.		TOTAL SHEETS	
G22		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			



PIH REVIEW
SEPT 2025
PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

R3 CIRCULATORY PLAN
AND PROFILE (STA 50+00
TO STA 52+83)

DRAWING LOCATION		DATE	TIME	SCALE	DESIGNED BY
C:\DOWL_P\DWG\041938\100917_G01_GRAD.DWG		9/18/2025	1:07 PM	1" = 20'	CHECKED BY
					DRAFTED BY
					AZ
					RT

CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

NOTES:
PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.

"SUP" CURVE #1
P.I. "SUP" STA. 131+12.61
N = 366297.0770
E = 399032.7621
 $\Delta = 003^{\circ}22'44.6''$
L = 14.75'
T = 29.49'
R = 500.00'

"SUP" PT STA. 131+27.35

"SUP" EP STA. 131+31.68

"S45°30'32.7"W "SUP"

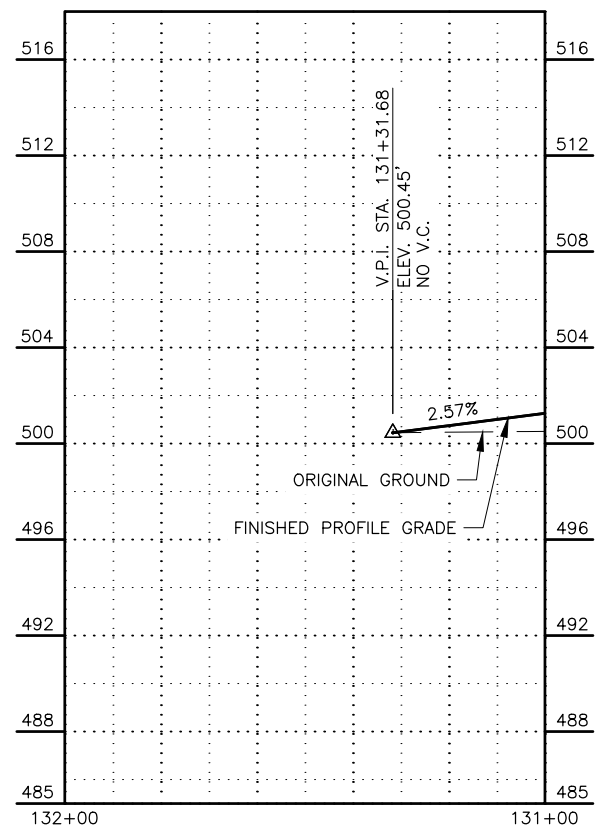
MATCH LINE "SUP" STA. 131+00 (SEE SHEET G24)

[illegible]

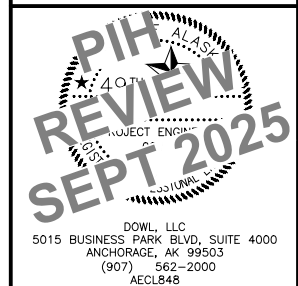
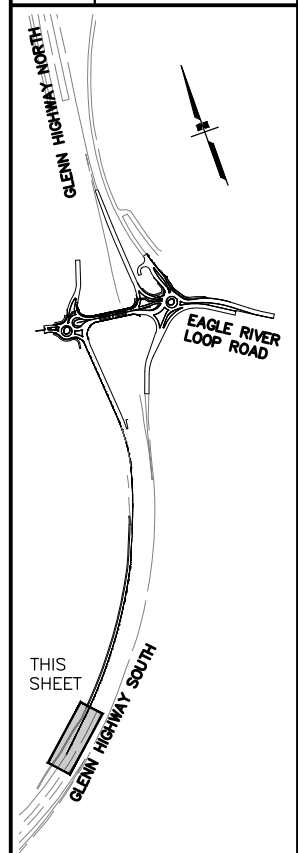
GLENN HIGHWAY SB

SB ENTRANCE RAMP "GSF"

GLENN HIGHWAY NB



SHEET NO.		TOTAL SHEETS	
G23		G28	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.	REVISION		
DATE			
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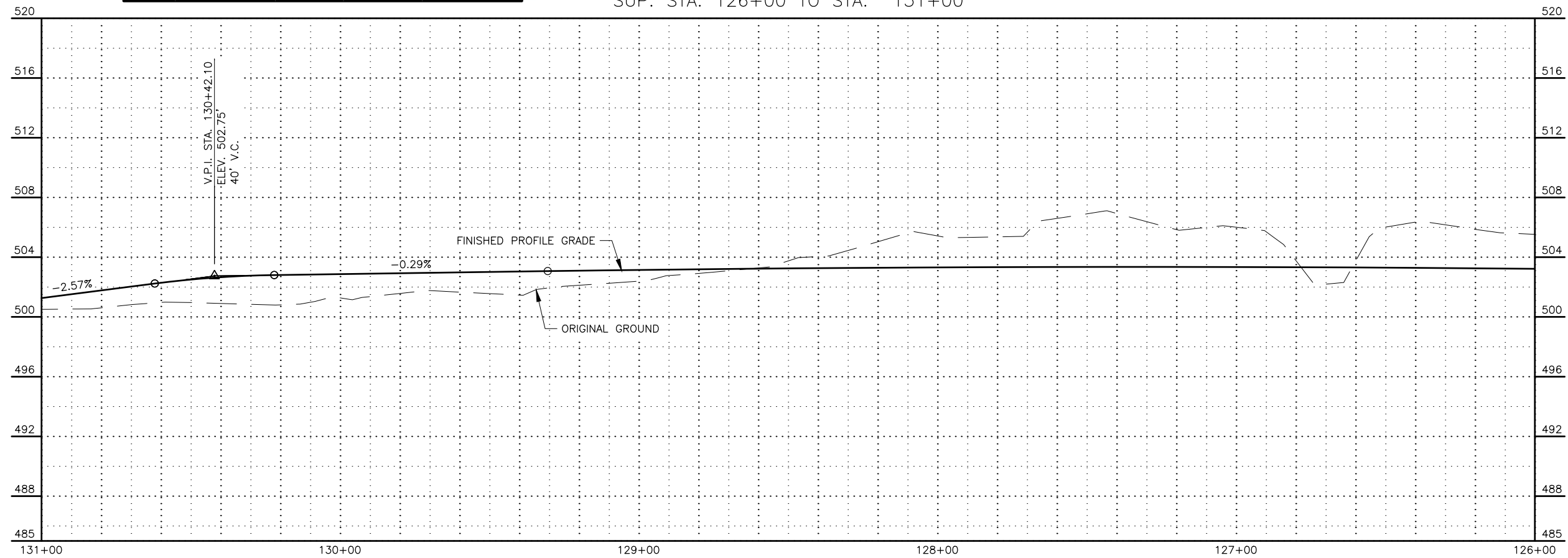
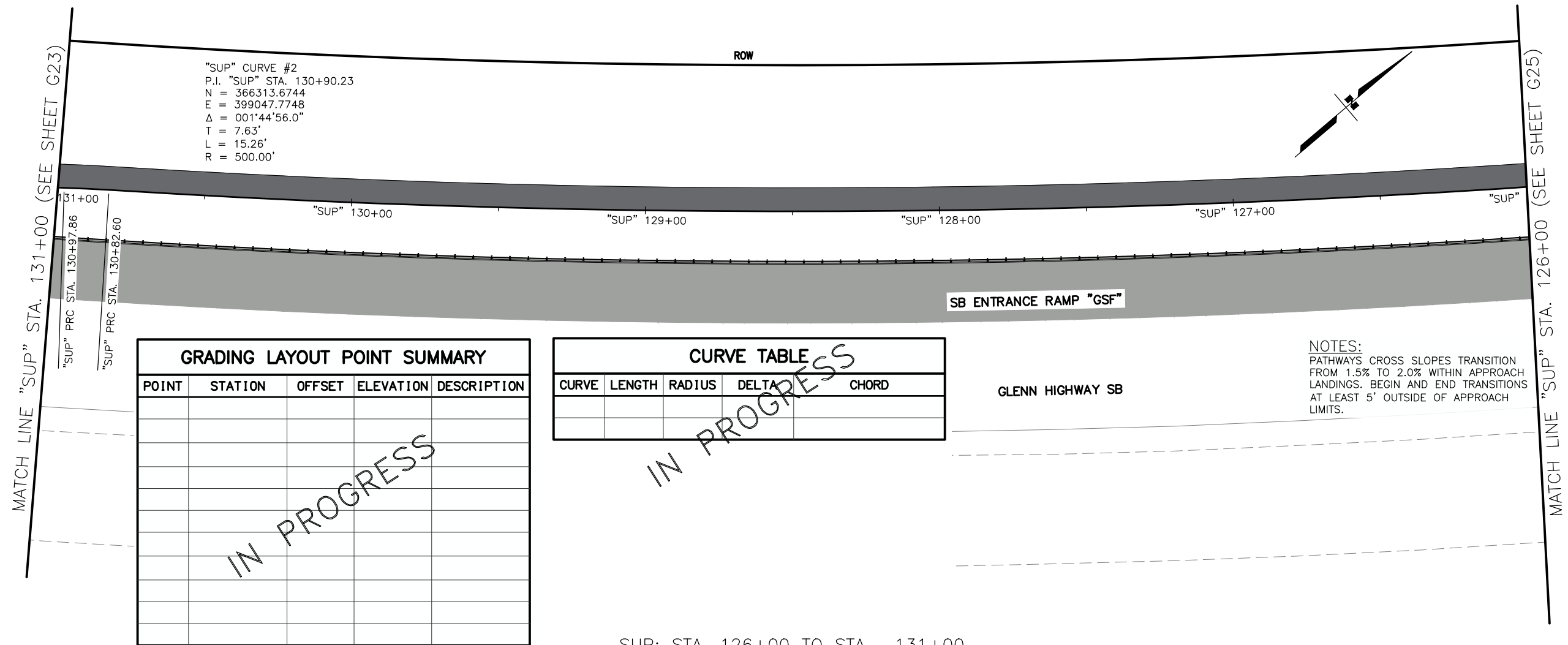


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

**PATHWAY PLAN AND
PROFILE (STA 131+00
TO STA 132+00)**

DRAWING LOCATION		DESIGNED BY	AZ
C:\DOWL_PW\00419381\00917_G01_GRAD.DWG		CHECKED BY	ST
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		SCALE	
		DATE	TIME
		9/18/2025	1:08 PM
		1" = 20'	



SHEET NO.	TOTAL SHEETS
G24	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

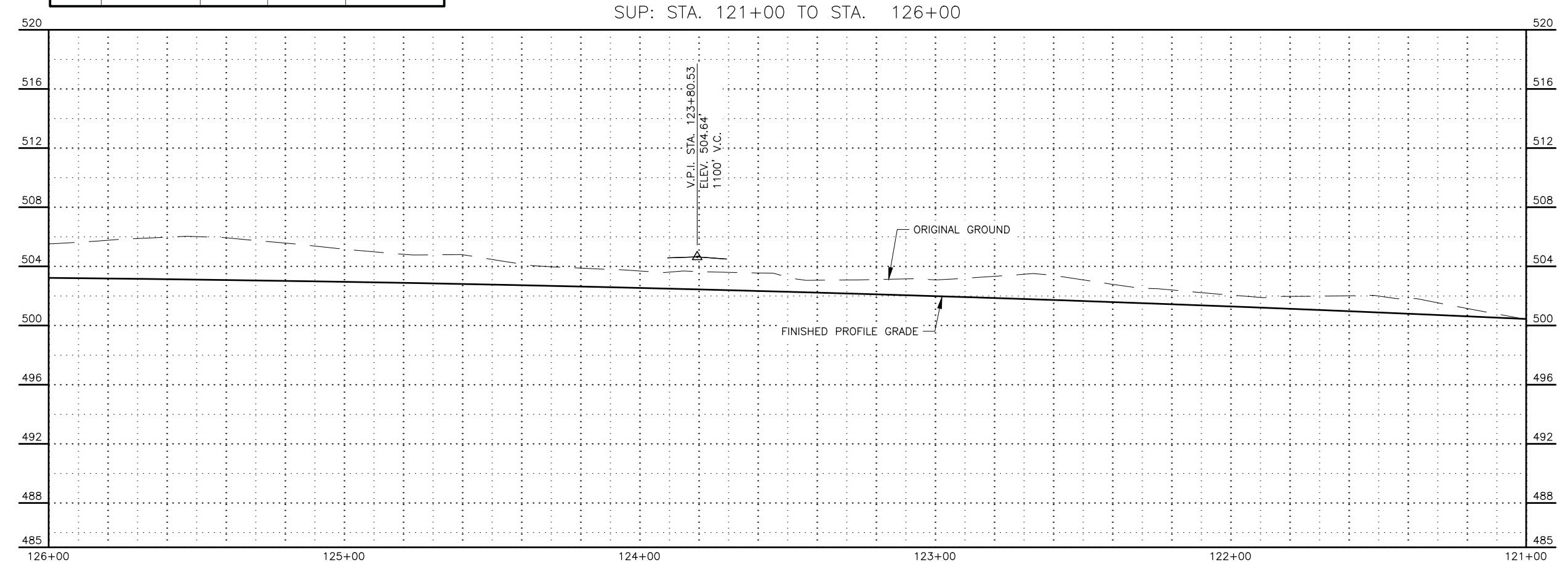
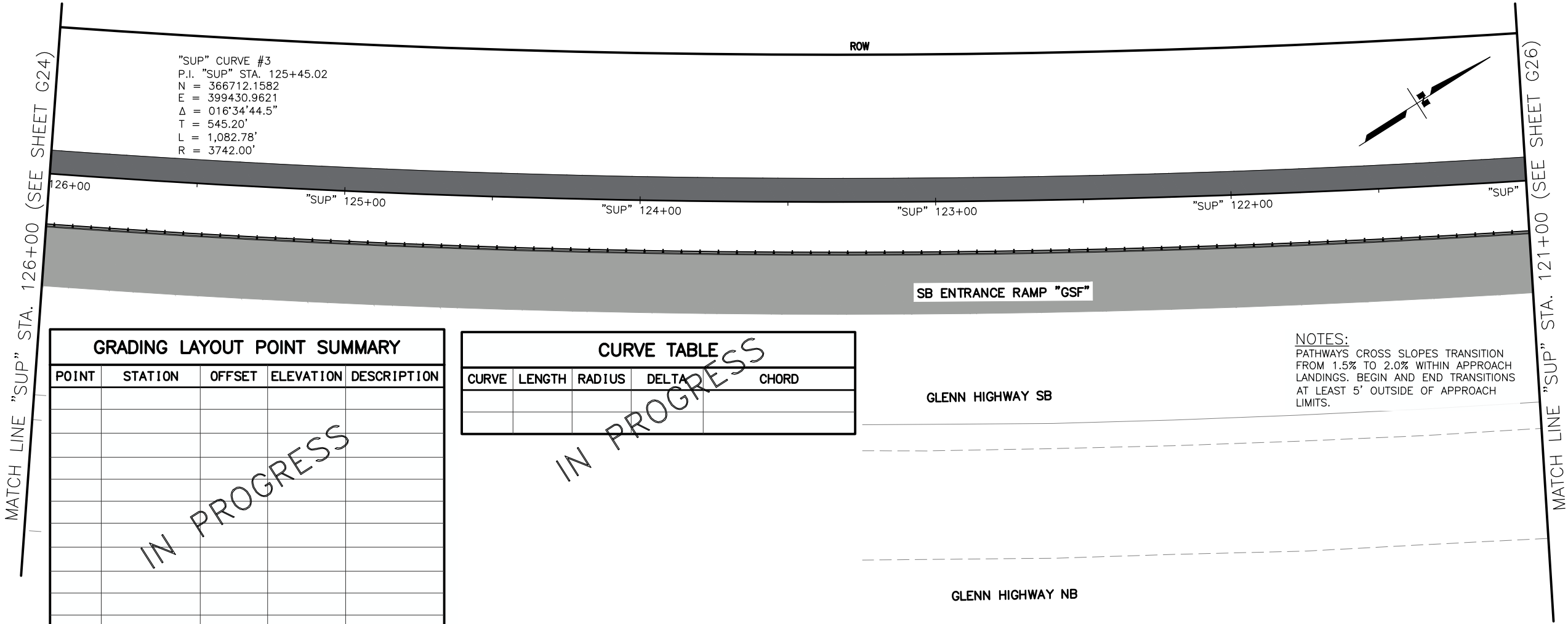
PIH REVIEW
SEPT 2025
PROJECT ENGINEER
ALASKA
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DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PATHWAY PLAN AND
PROFILE (STA 126+00
TO STA 131+00)



SHEET NO.
G25

TOTAL SHEETS
G28

STATE
ALASKA

YEAR
2026

PROJECT DESIGNATION
0A16055/
CFHWY00917

NO.
DATE

REVISION

NO.
DATE

REVISION

NO.
DATE

REVISION

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

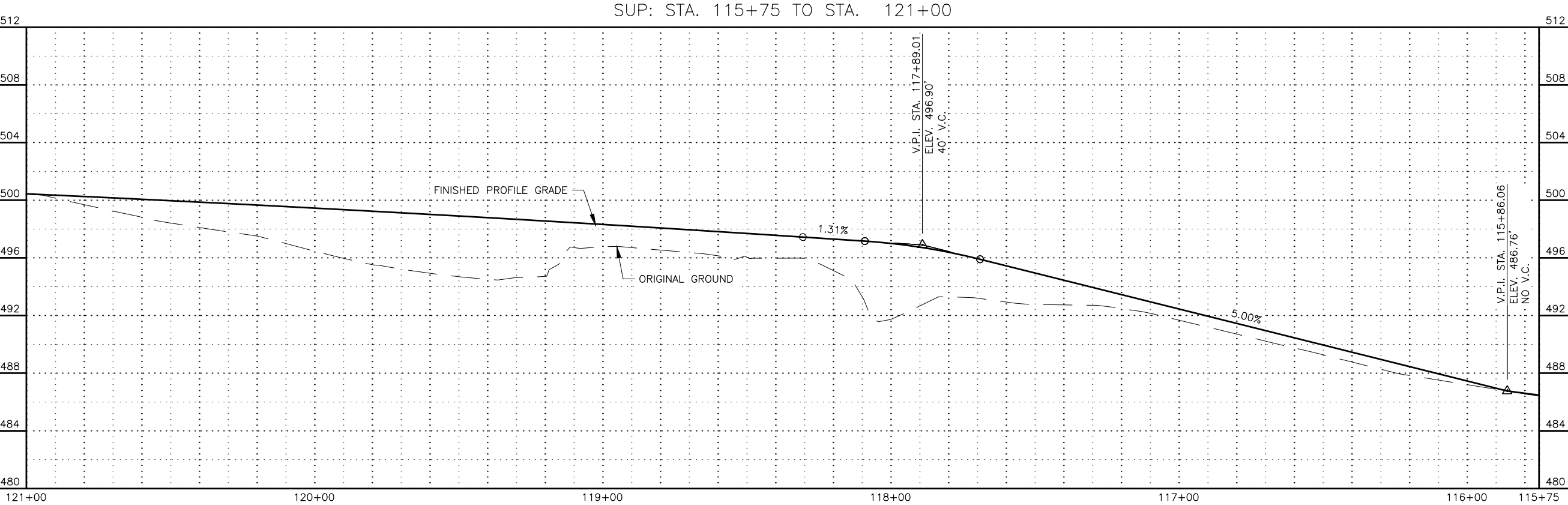
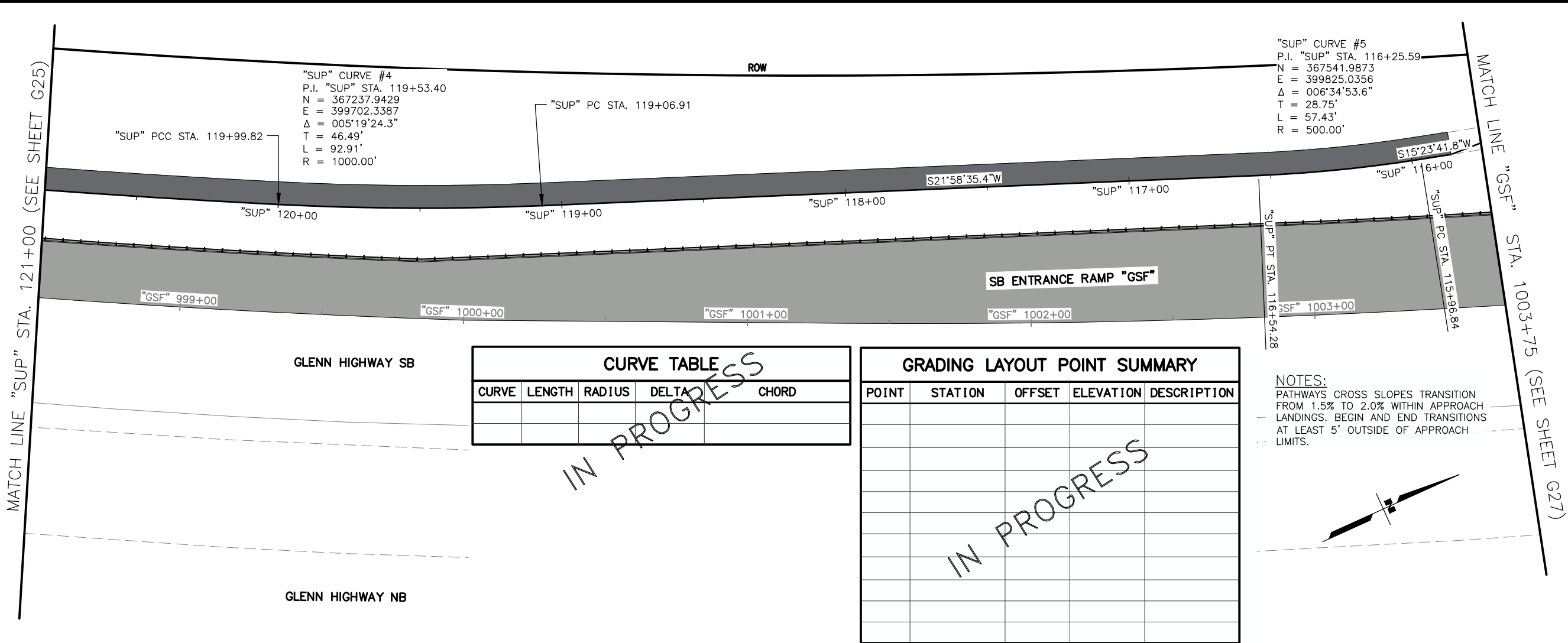
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PATHWAY PLAN AND
PROFILE (STA 121+00
TO STA 126+00)



SHEET NO.	TOTAL SHEETS
G26	G28
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

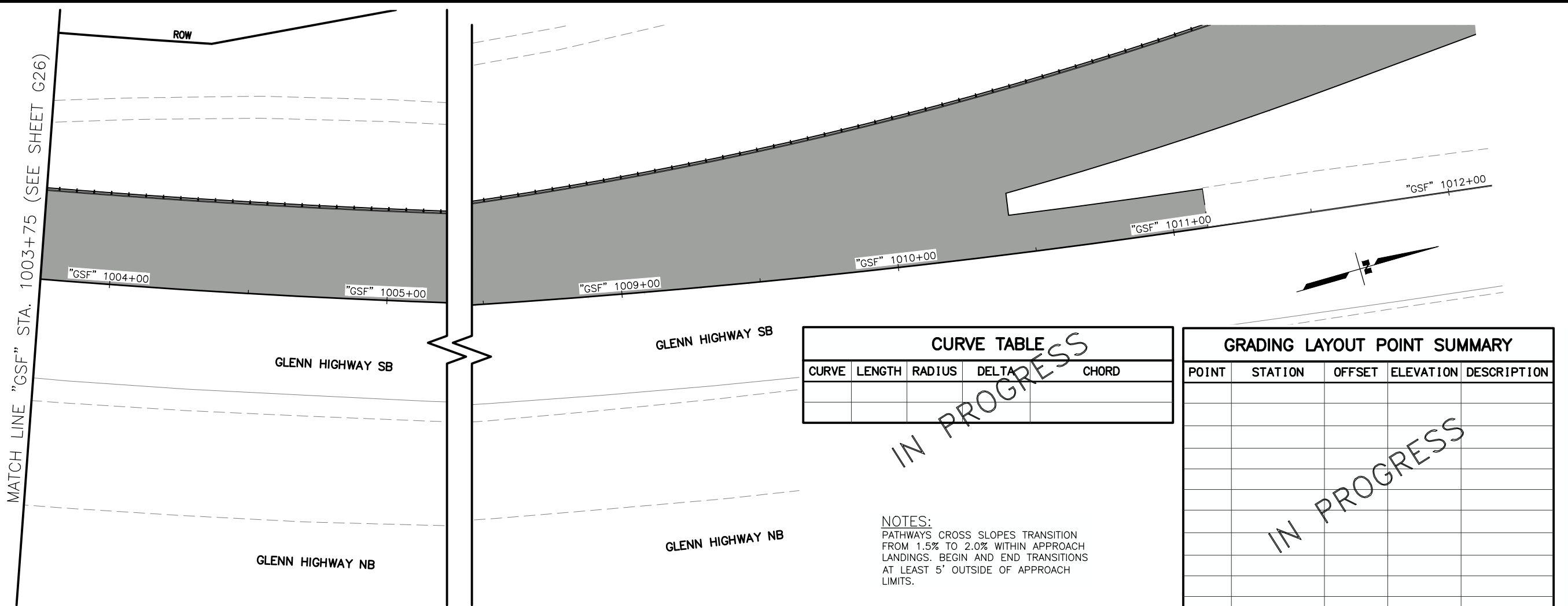
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AEC1848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

PATHWAY PLAN AND
PROFILE (STA 116+00
TO STA 121+00)



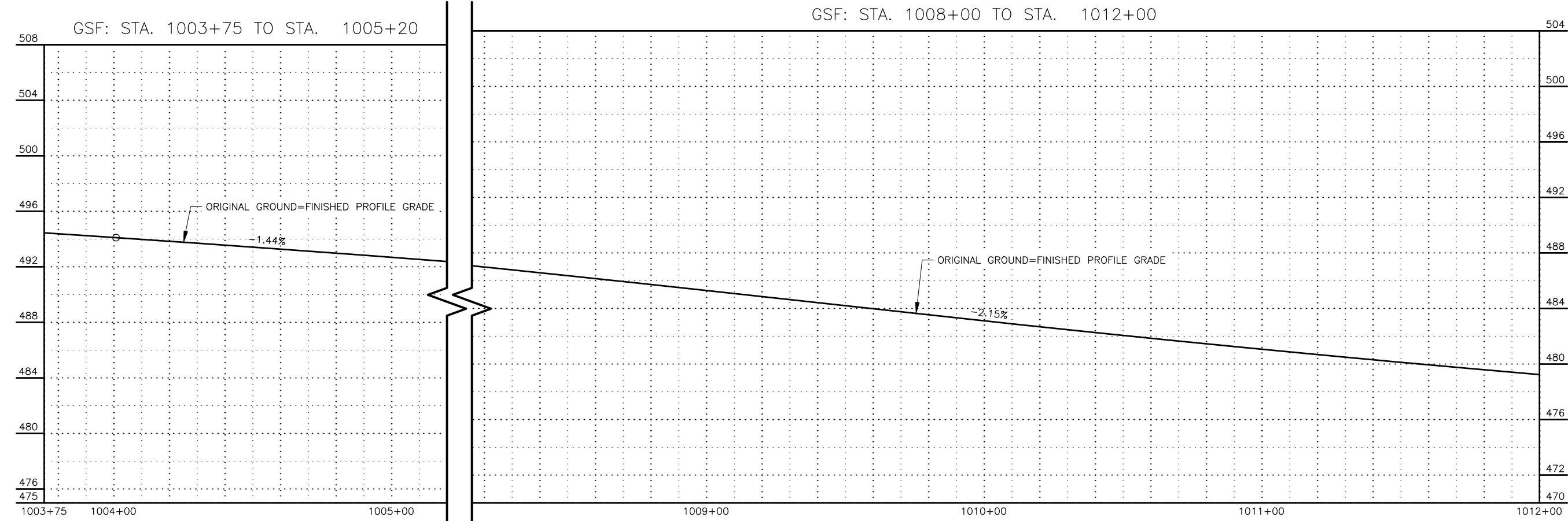
CURVE TABLE				
CURVE	LENGTH	RADIUS	DELTA	CHORD

GRADING LAYOUT POINT SUMMARY				
POINT	STATION	OFFSET	ELEVATION	DESCRIPTION

IN PROGRESS

IN PROGRESS

NOTES:
PATHWAYS CROSS SLOPES TRANSITION FROM 1.5% TO 2.0% WITHIN APPROACH LANDINGS. BEGIN AND END TRANSITIONS AT LEAST 5' OUTSIDE OF APPROACH LIMITS.



SHEET NO.
G27

TOTAL SHEETS
G28

STATE
ALASKA

YEAR
2026

PROJECT DESIGNATION
0A16055/
CFHWY00917

NO.

REVISION

DATE

NO.

REVISION

DATE

NO.

REVISION

DATE

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW

SEPT 2025

PROJECT ENGINEER

DATE

ALASKA

DOWL, LLC

5015 BUSINESS PARK BLVD, SUITE 4000

ANCHORAGE, AK 99503

(907) 562-2000

AEC1848

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

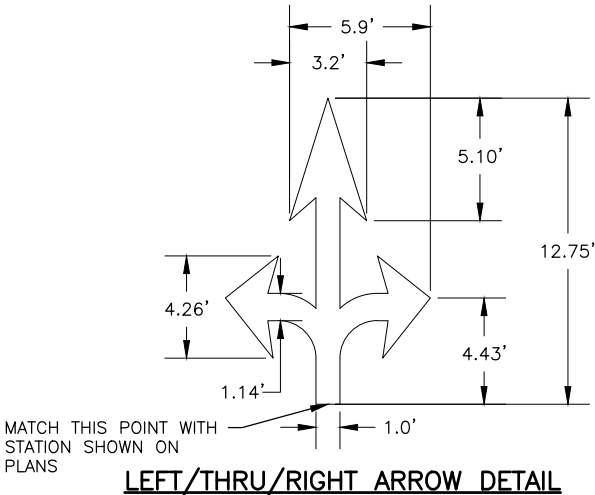
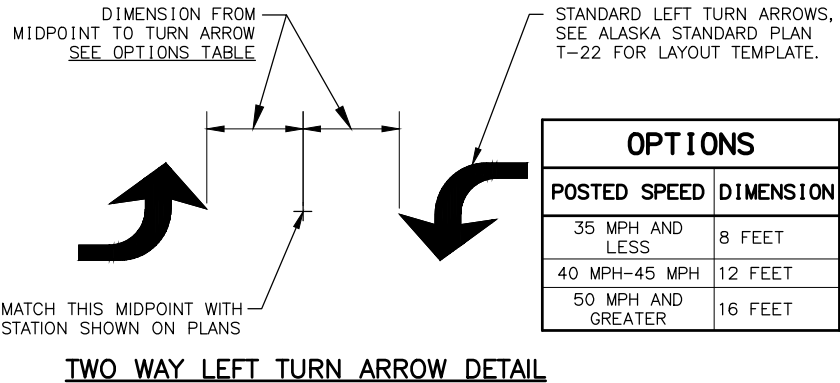
GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS

GH SOUTHBOUND ENTRANCE GORE (STA 103+75 TO STA 1009+00)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	H1	H3

SIGNING & STRIPING NOTES:

- ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
 - PT MEANS A PERFORATED STEEL TUBE.
 - T MEANS A SQUARE STEEL TUBE.
 - P MEANS A ROUND STEEL PIPE.
 - W MEANS A WIDE FLANGE BEAM.
 - POPL MEANS A POLE PLATE INSTALLED PER ITS ALASKA STANDARD PLAN S-23.
- FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING, UNLESS STATED ELSEWHERE.
- FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
- FOR PERFORATED STEEL TUBE SIGN POSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON ALASKA STANDARD PLAN S-30. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
- FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
- ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
- FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
- SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
- FOR ALL FINAL PAVEMENT MARKINGS USE METHYLMETHACRYLATE MATERIALS. LONGITUDINAL, TRANSVERSE AND SYMBOL MARKINGS SHALL BE INLAID AND GORE STRIPES SHALL BE SURFACE APPLIED AS SPECIFIED IN SECTION 670 OF THE SPECIFICATIONS.
- DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT.
- IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
- WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.



CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF
3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM
FOR MEMBER LIST OF WHO WILL BE NOTIFIED

PIH
REVIEW
SEPT 2025

PROJECT
PROFESSIONAL SEAL

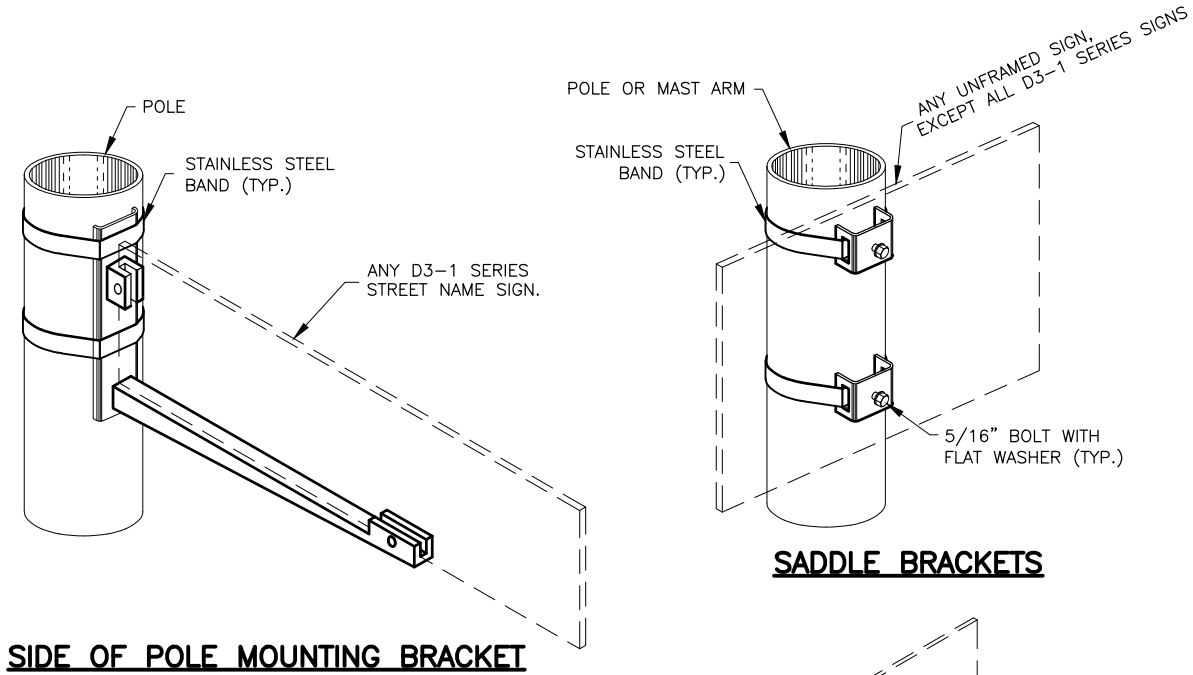
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

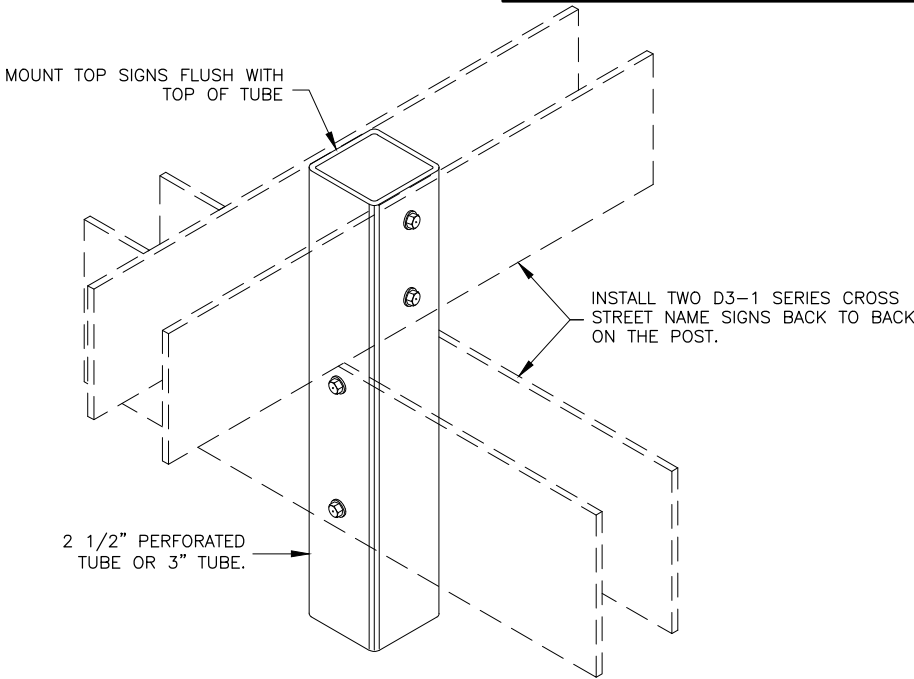
GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

ABBREVIATIONS, LEGENDS,
AND NOTES

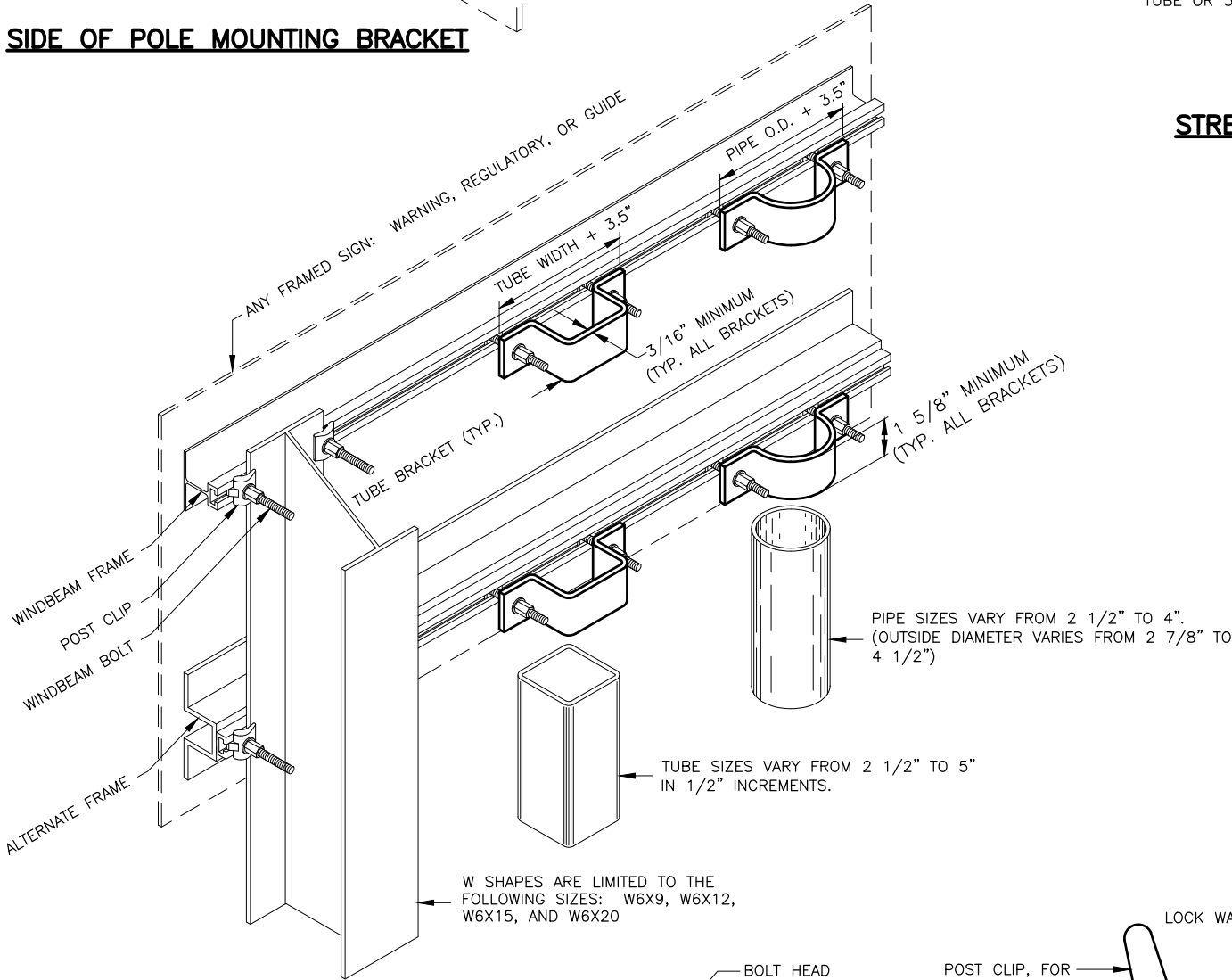
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	H2	H3



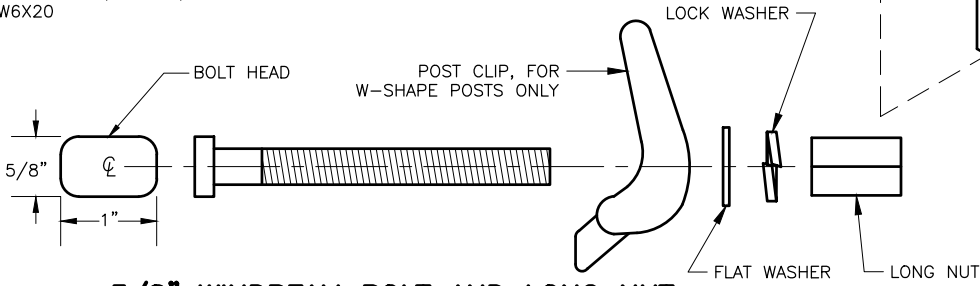
SIDE OF POLE MOUNTING BRACKET



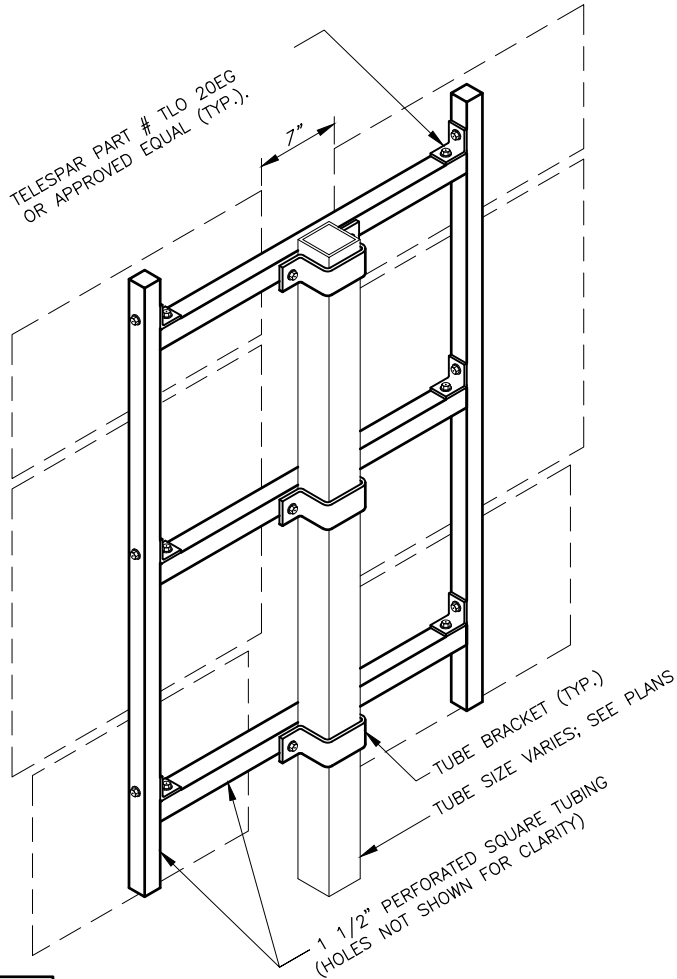
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



3/8" WINDBEAM BOLT AND LONG NUT



ROUTE MARKER TREE

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
- ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
- BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
- ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
- THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
- ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
- FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE			
FASTENERS	ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	ASTM F468 2024-T4	ASTM A307	ASTM F593
NUTS	ASTM F467 2024-T4	ASTM A563	ASTM F594
WASHERS	ANSI B18.22.1	ASTM F844	ANSI B18.22.1
POST CLIPS	ASTM B179 356-T6	N/A	N/A

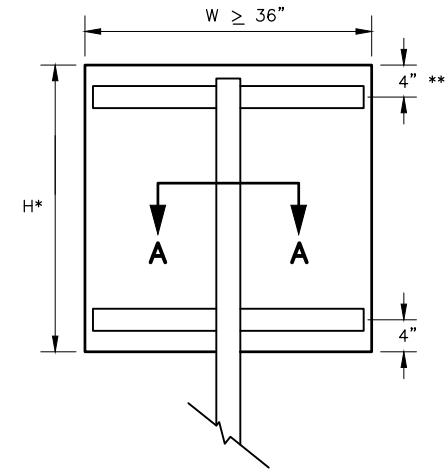


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS

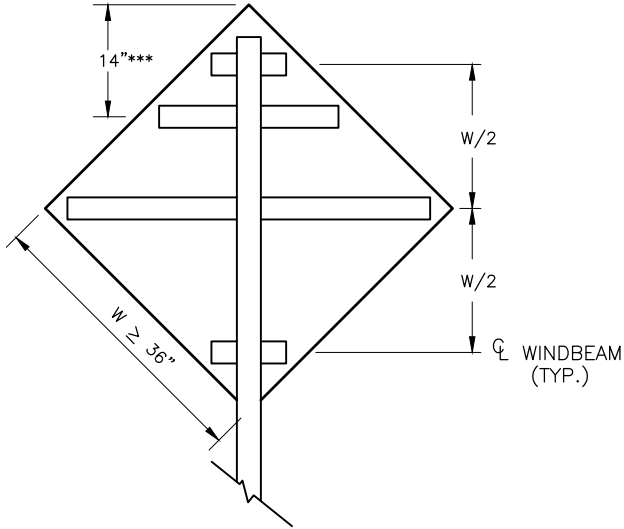
SIGN ATTACHMENT DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2026	H3	H3

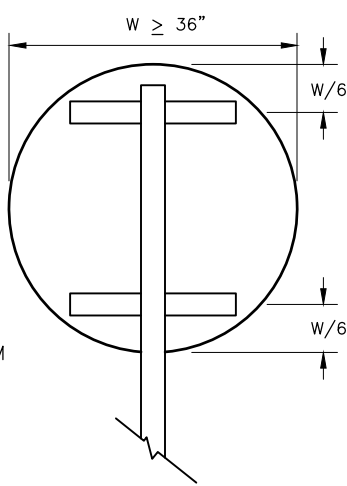


RECTANGLES AND TRAPEZOIDS

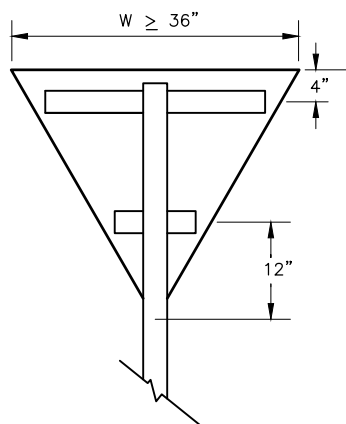
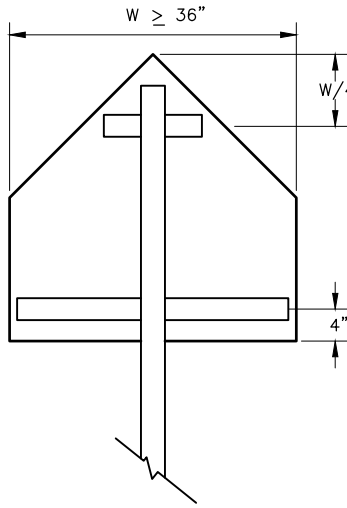
* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".



*** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14" OFFSET. OTHERWISE, USE W/2.



ROUNDS AND OCTAGONS

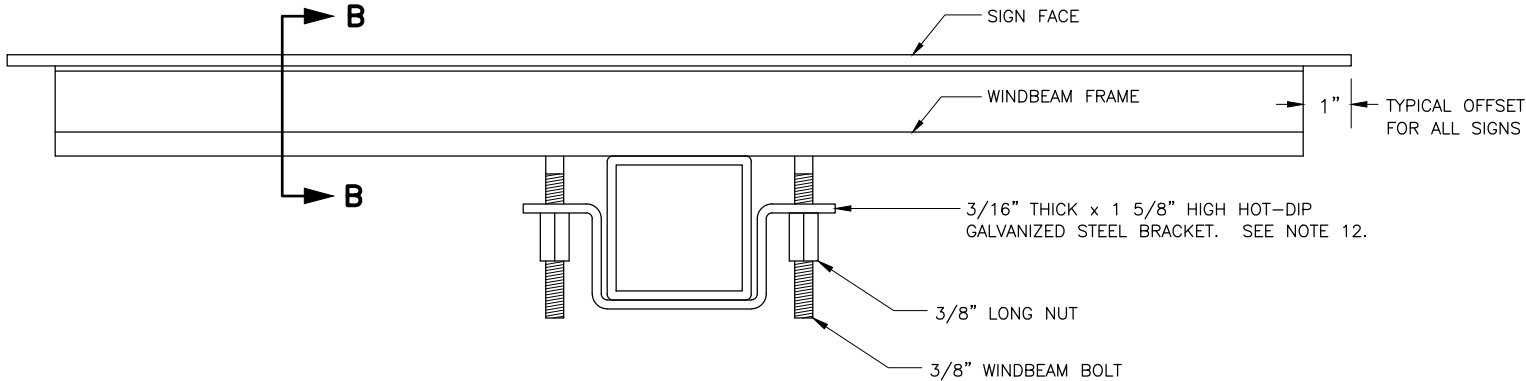


NOTES:

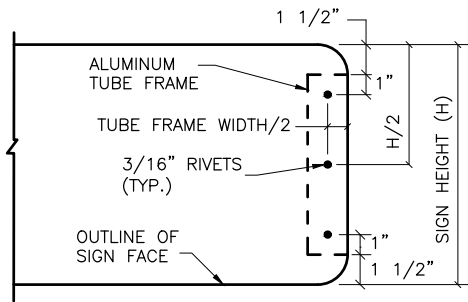
- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
- IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
- THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
- THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A POST.
- USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING:
A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
B. THE APPLICATION OF THE ADHESIVE TAPE.
- WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.

WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

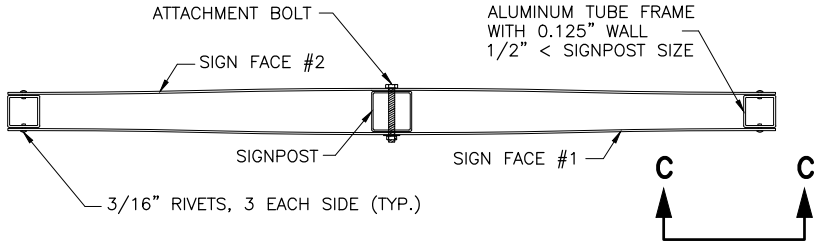
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

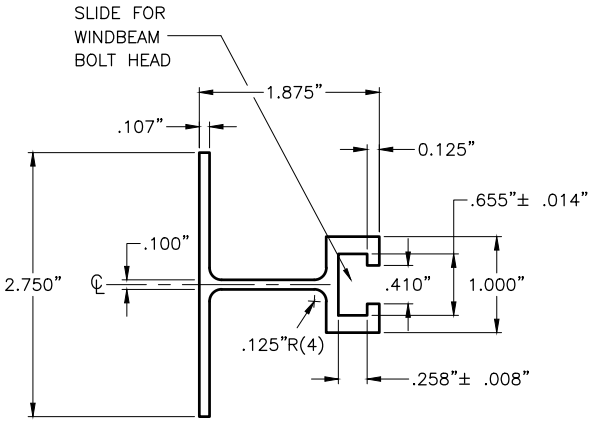


VIEW C - C

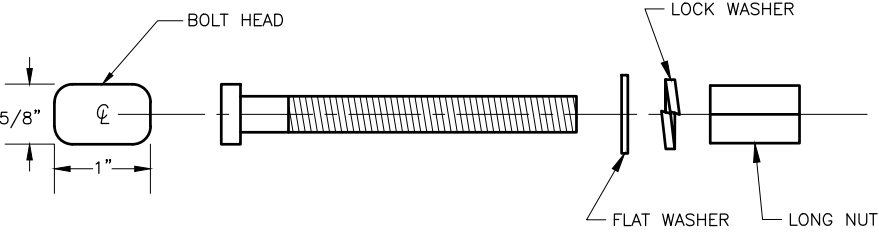


D3-1 STREET NAME SIGN FRAMING DETAIL

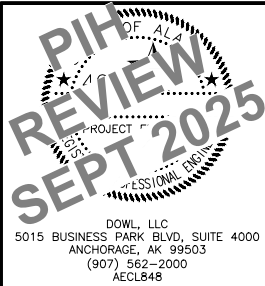
PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION

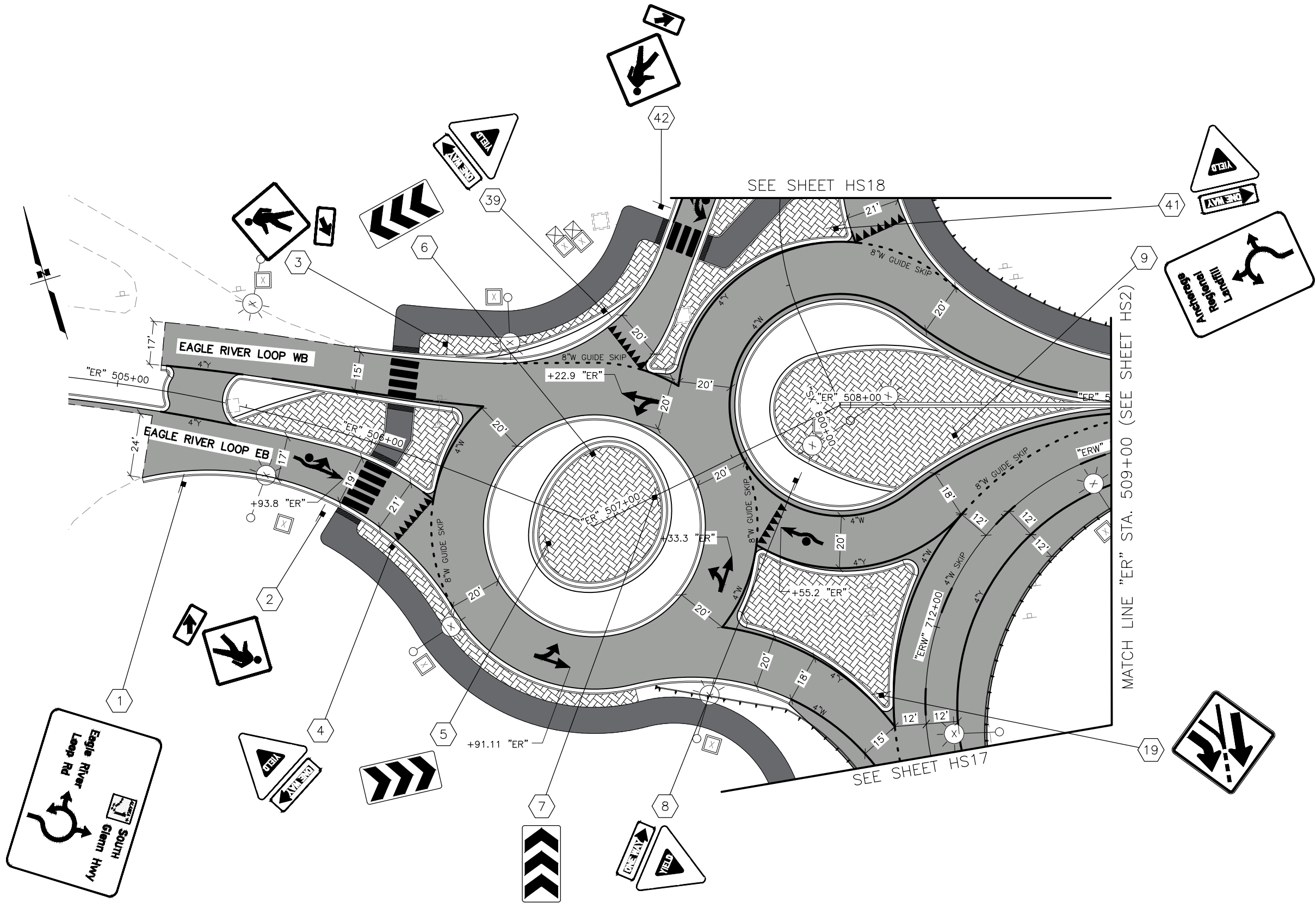


3/8" WINDBEAM BOLT AND LONG NUT



STATE OF ALASKA
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**GLENN HIGHWAY & HILAND ROAD
INTERCHANGE IMPROVEMENTS**

**LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS**



SHEET NO.		TOTAL SHEETS	
HS1		HS18	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

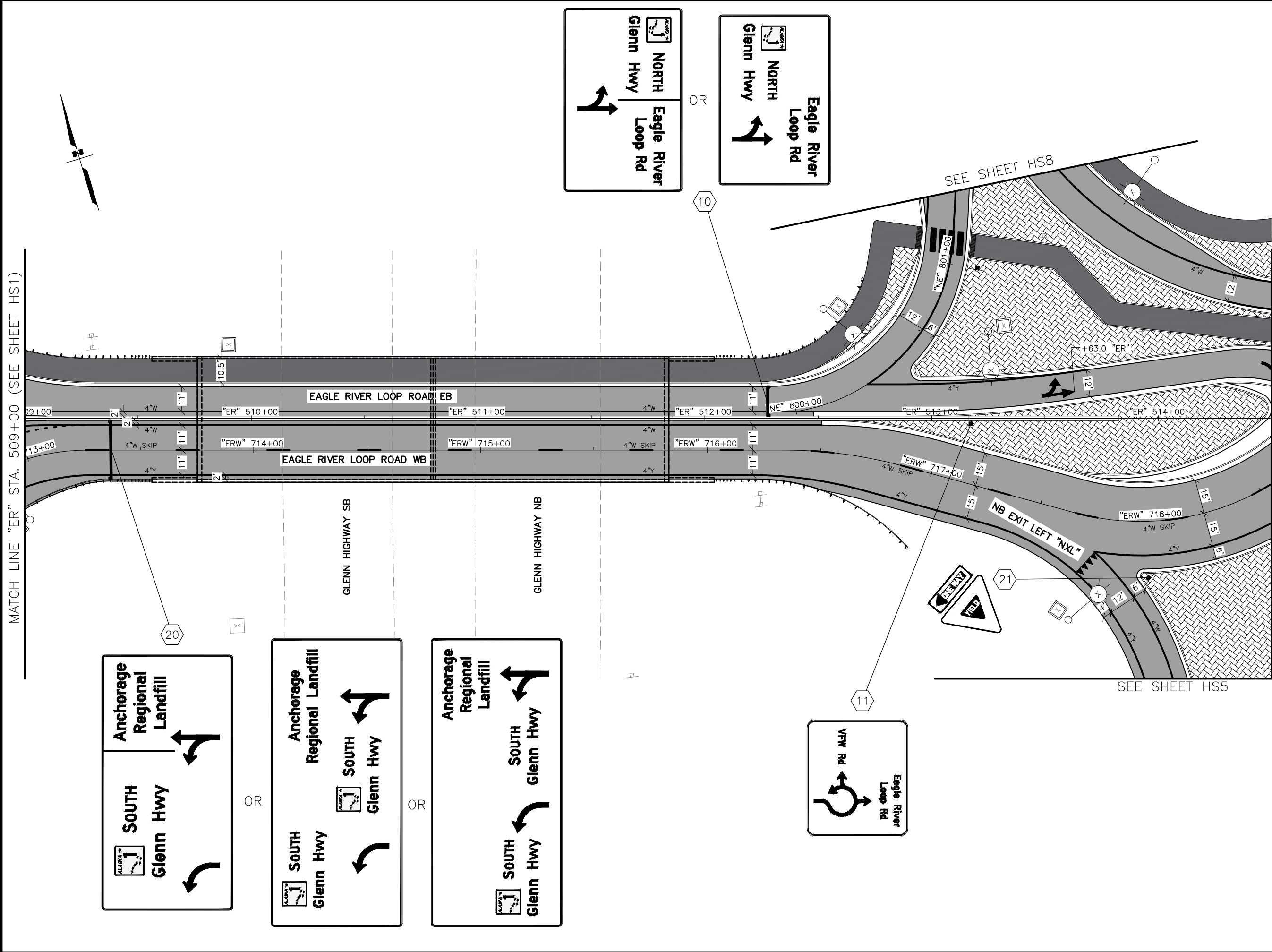
PIH REVIEW
SEPT 2025

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 503+50 TO
STA 509+00)



SHEET NO.	TOTAL SHEETS
HS2	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
OA16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

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SEPT 2025

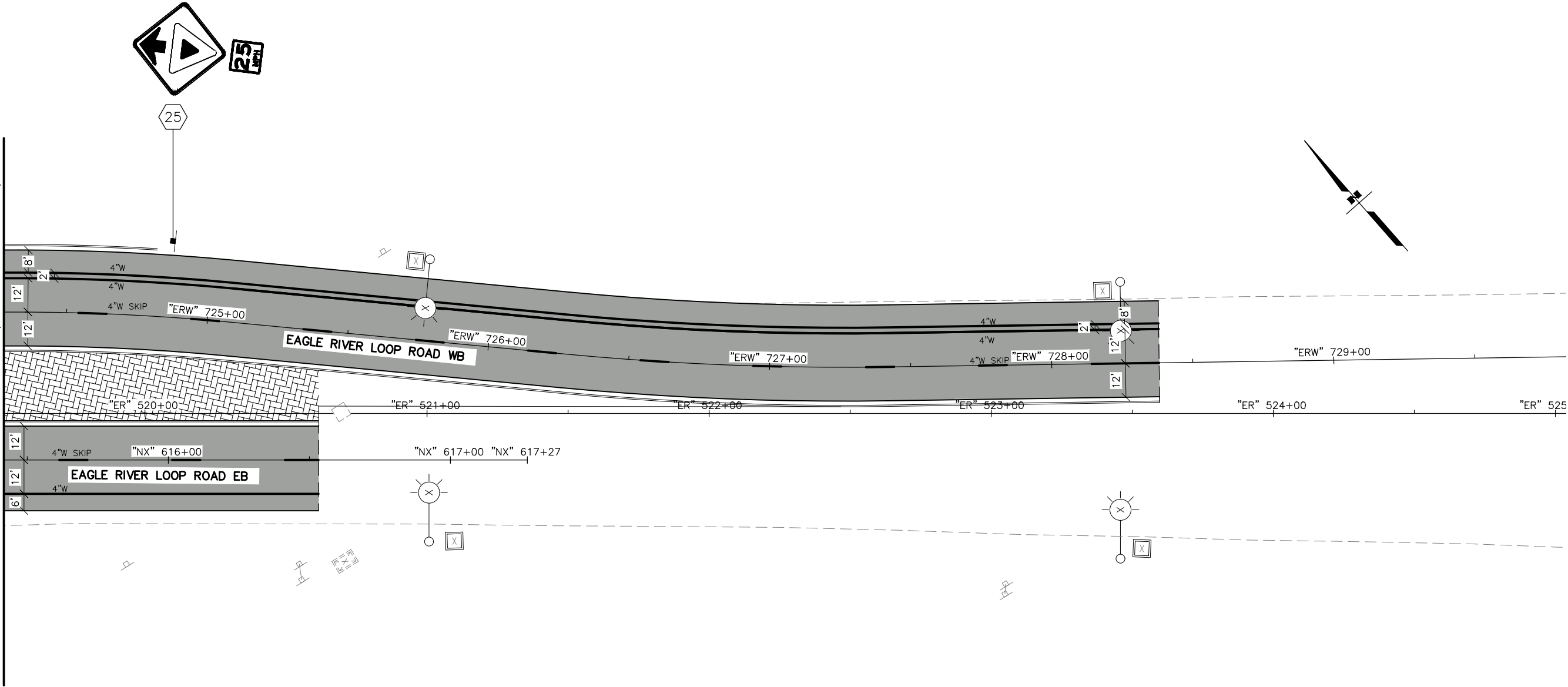
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

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INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 509+00 TO
STA 514+50)

MATCH LINE "ER" STA. 519+50 (SEE SHEET HS3)



SHEET NO.	TOTAL SHEETS
HS4	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
GLENN HIGHWAY SOUTH
EAGLE RIVER LOOP ROAD
THIS SHEET

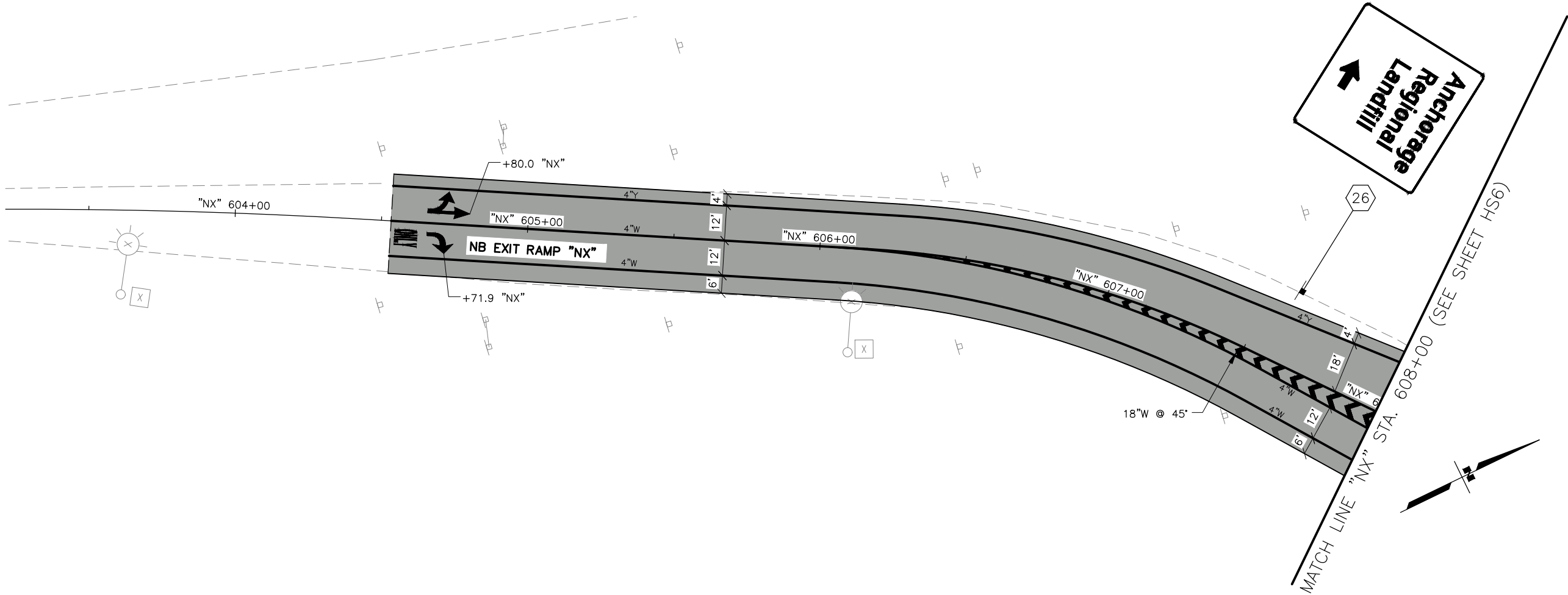
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AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 519+50 TO
STA 525+00)



SHEET NO.	TOTAL SHEETS
HS5	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
GLENN HIGHWAY SOUTH
EAGLE RIVER LOOP ROAD
THIS SHEET

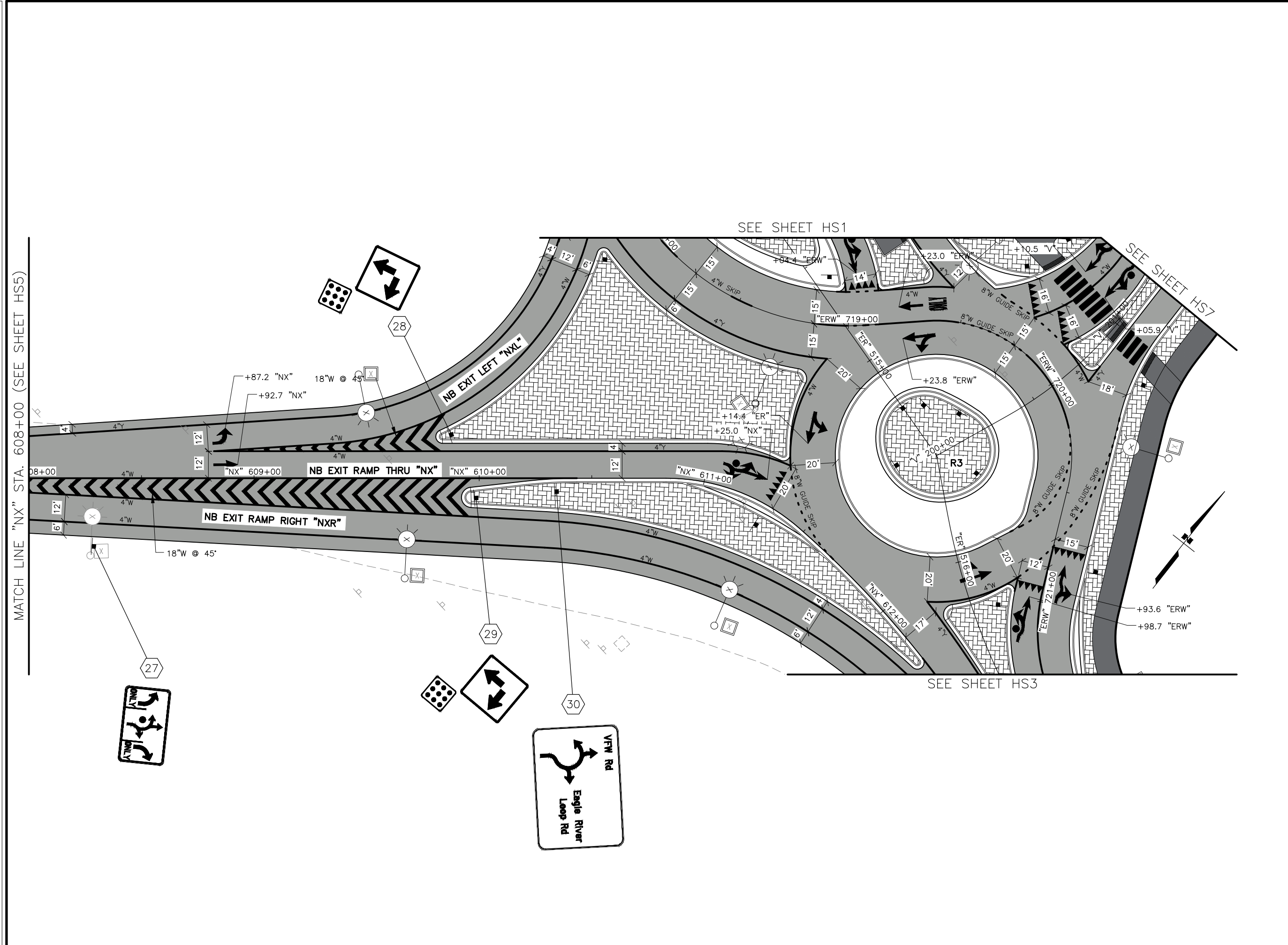
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INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 603+50 TO
STA 608+00)



SHEET NO.	TOTAL SHEETS
HS6	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
OA16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

THIS SHEET

EAGLE RIVER LOOP ROAD

GLENN HIGHWAY SOUTH

PIH REVIEW

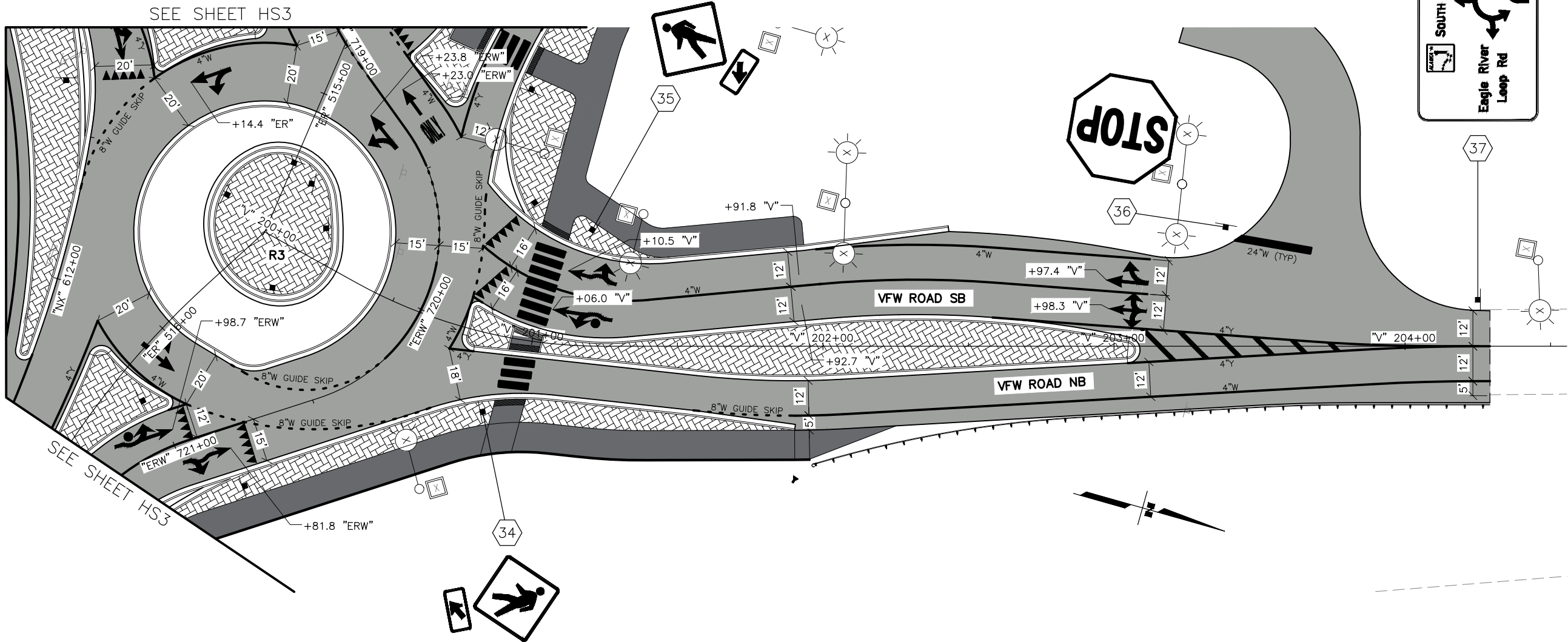
SEPT 2025

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STATE OF ALASKA
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GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 608+00 TO
STA 612+00)



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SEPT 2025

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GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 200+00 TO
STA 204+50)

SHEET NO.
HS7

STATE
ALASKA

PROJECT DESIGNATION
OA16055/
CFHWY00917

NO.
DATE

REVISION

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DATE

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REVISION

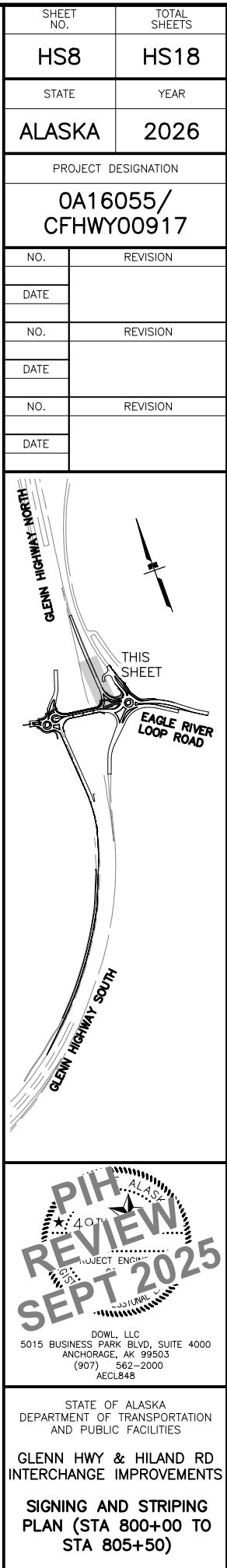
GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

	DRAWING LOCATION
	C:\DOWL_PW\00419381\00917_H01_SIGNSTRIP.DWG



PIH ALASKA
40TH
REVIEW
SUBJECT ENVIRONMENTAL
03/23
SEPT 2025
03/23 (AVL)

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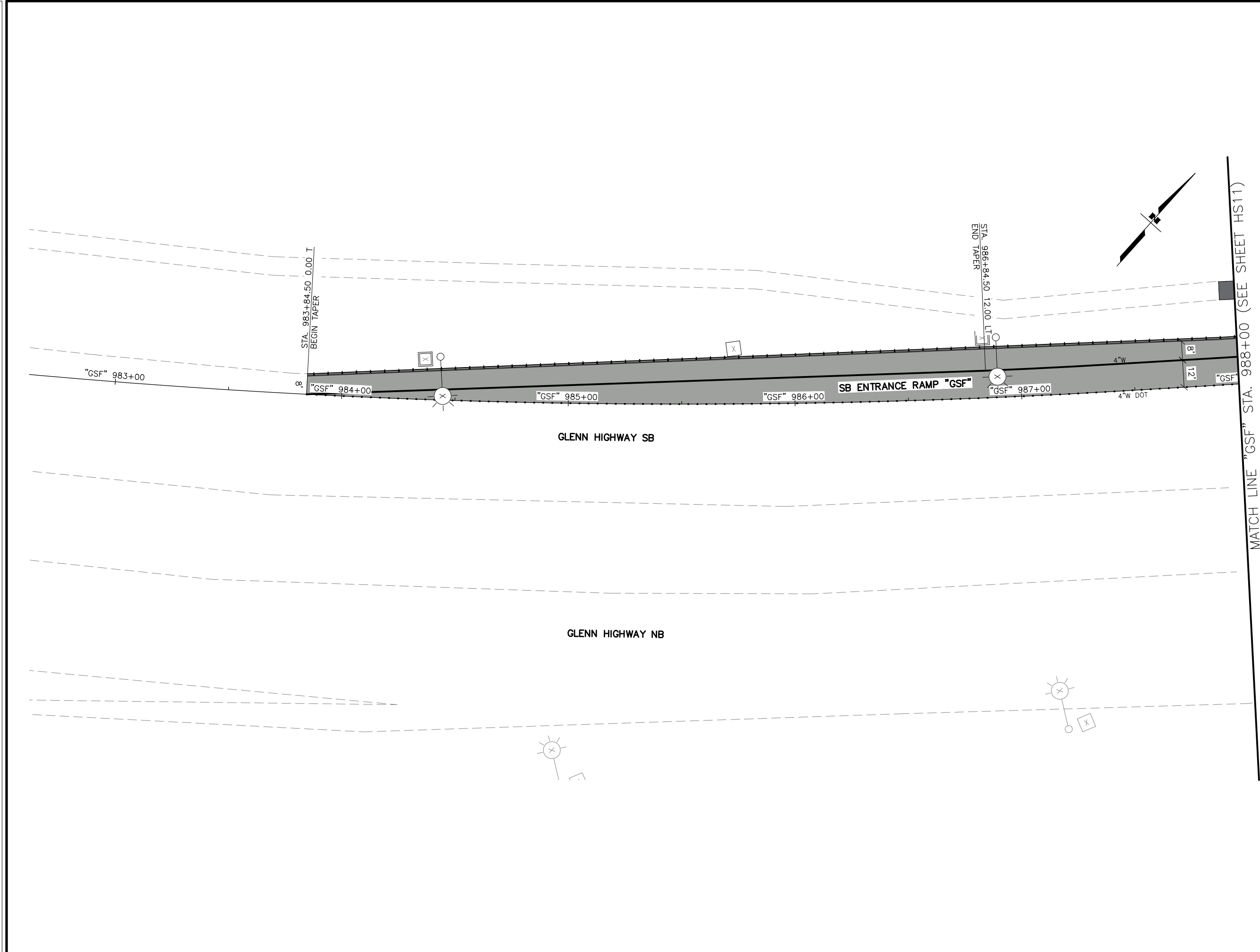
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

**SIGNING AND STRIPING
PLAN (STA 800+00 TO
STA 805+50)**

MATCH LINE "NE" STA. 805+50 (SEE SHEET HS8)

[illegible]



SHEET NO.	TOTAL SHEETS
HS10	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW

SEPT 2025

ALASKA

PROJECT ENGINEER

DATE

407

21

09

2025

09/18/2025

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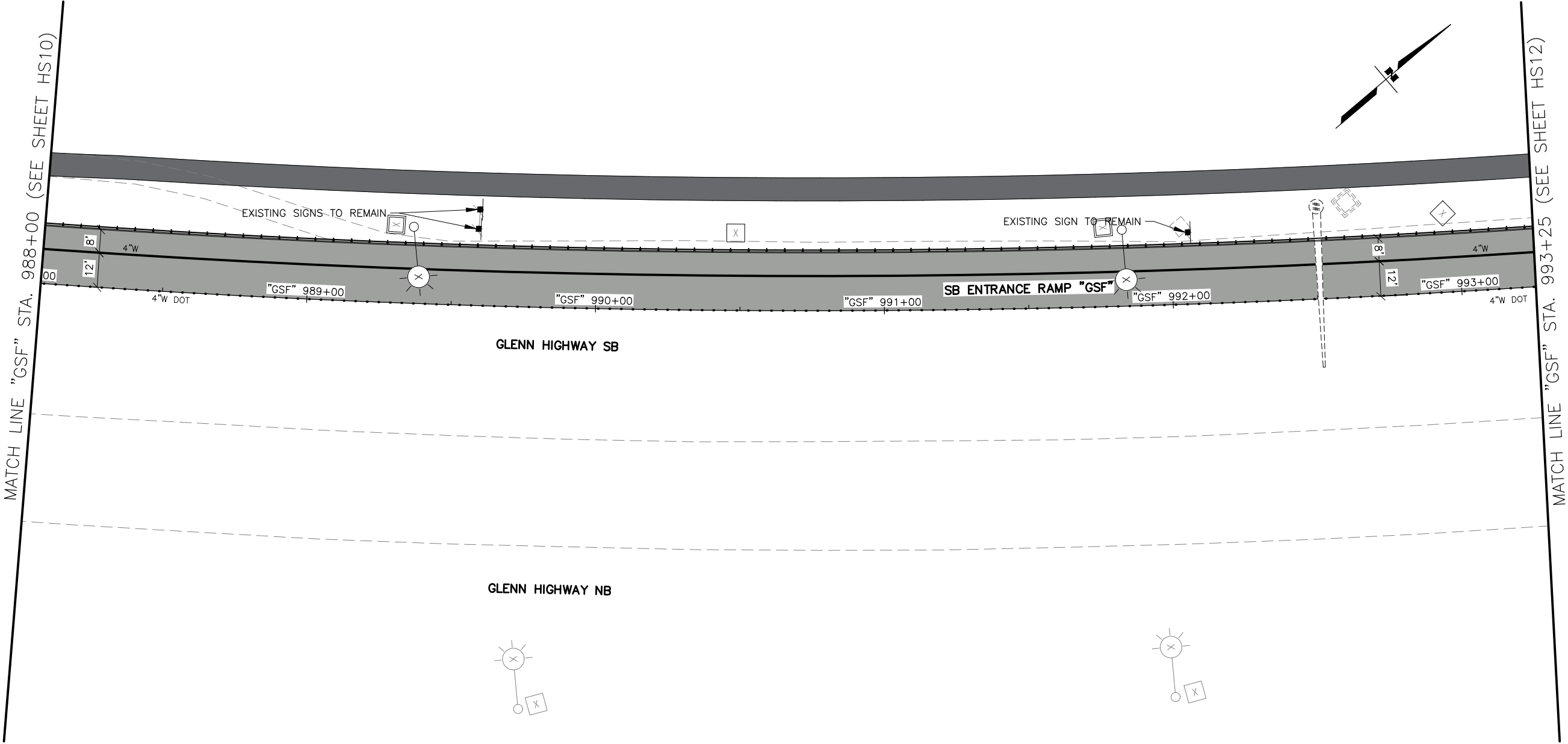
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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING PLAN (STA 983+50 TO STA 988+00)



SHEET NO.	TOTAL SHEETS
HS11	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

EAGLE RIVER LOOP ROAD

THIS SHEET

GLENN HIGHWAY SOUTH

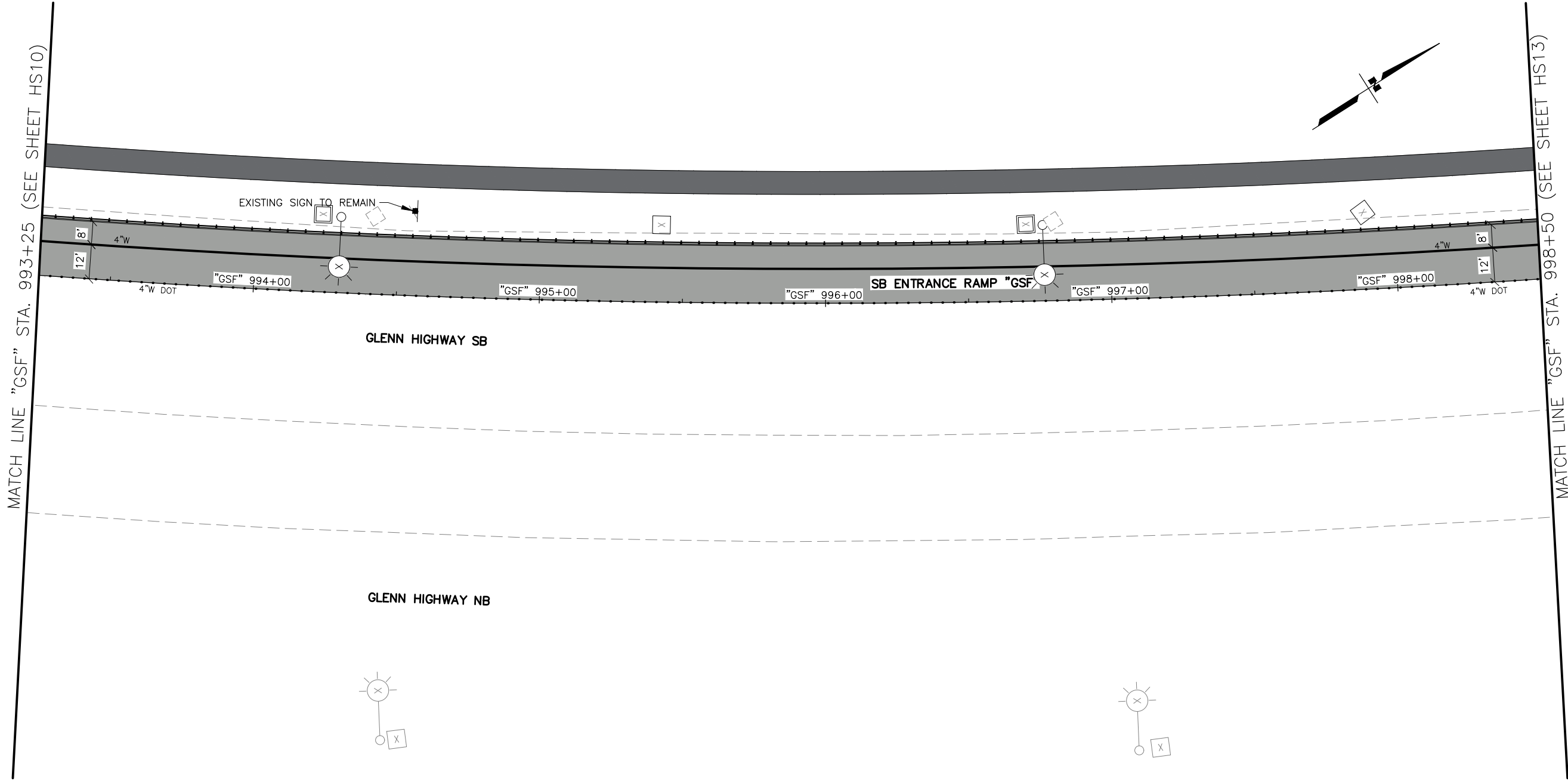
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SEPT 2025

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 988+00 TO
STA 993+25)



SHEET NO.	TOTAL SHEETS
HS12	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
EAGLE RIVER LOOP ROAD
THIS SHEET
GLENN HIGHWAY SOUTH

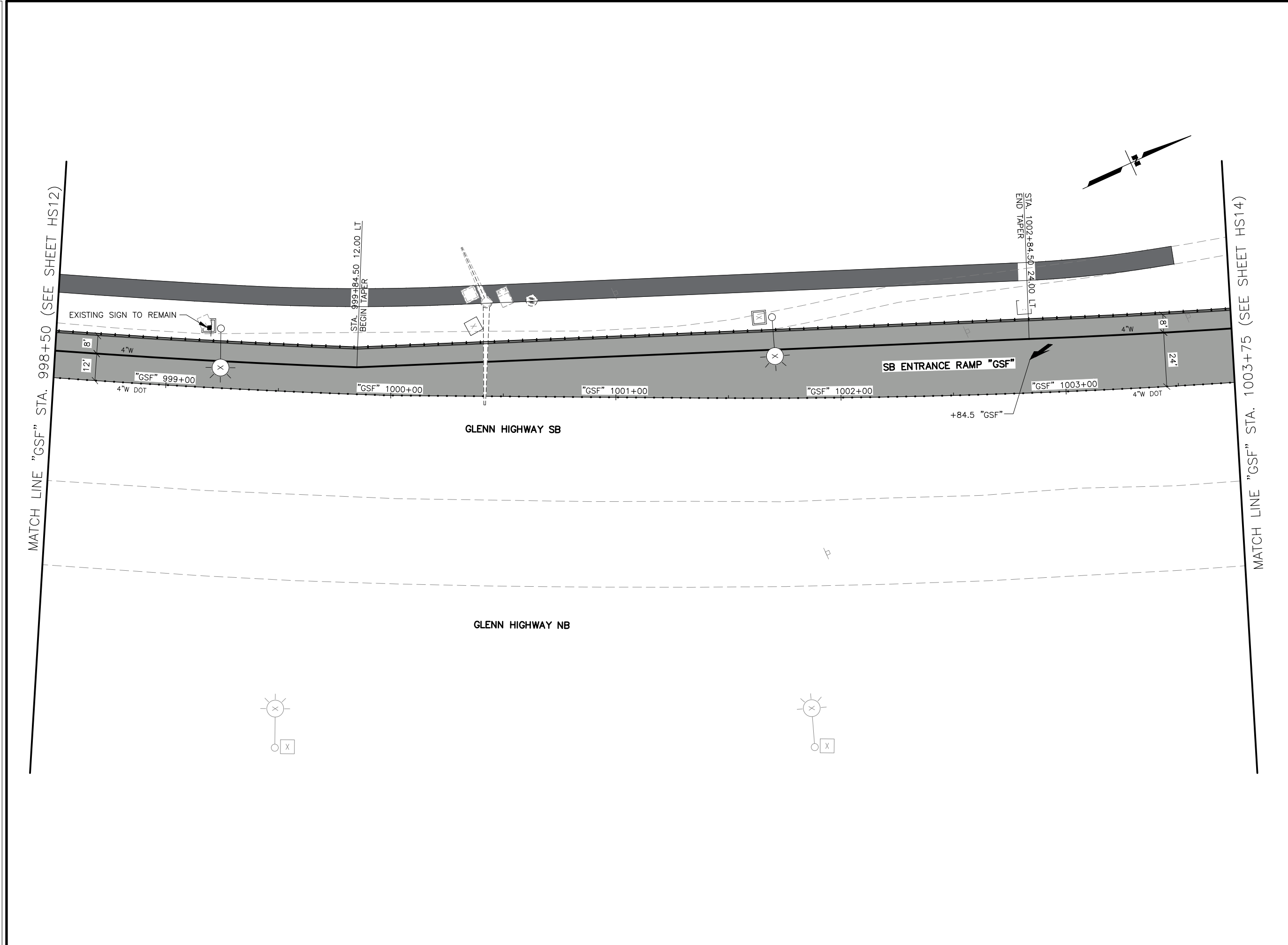
PIH REVIEW
SEPT 2025

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STATE OF ALASKA
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AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 993+25 TO
STA 988+50)



SHEET NO.	TOTAL SHEETS
HS13	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
EAGLE RIVER LOOP ROAD
THIS SHEET
GLENN HIGHWAY SOUTH

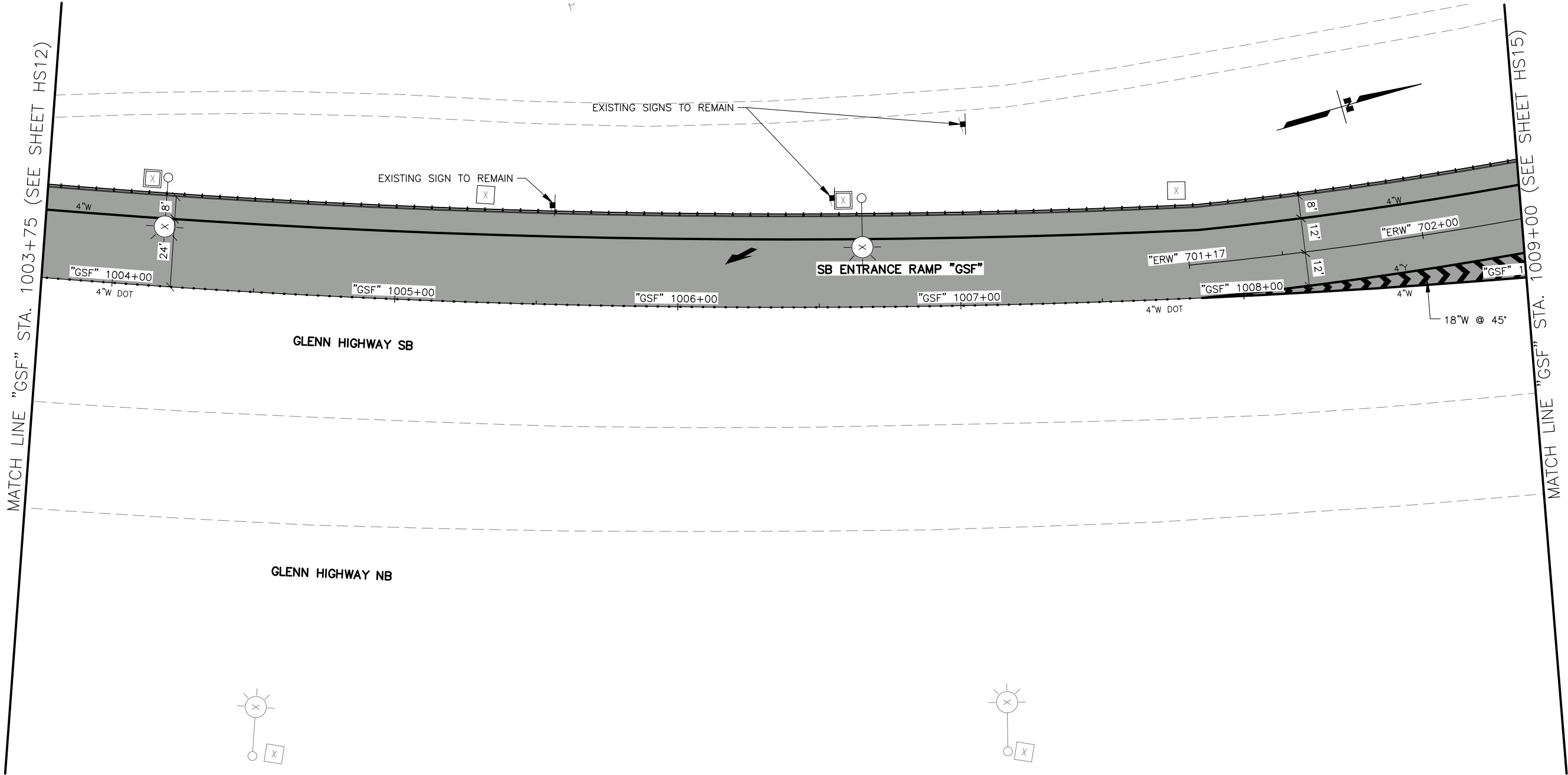
PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 998+50 TO
STA 1003+75)



SHEET NO.	TOTAL SHEETS
HS14	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH
GLENN HIGHWAY SOUTH
EAGLE RIVER LOOP ROAD
THIS SHEET

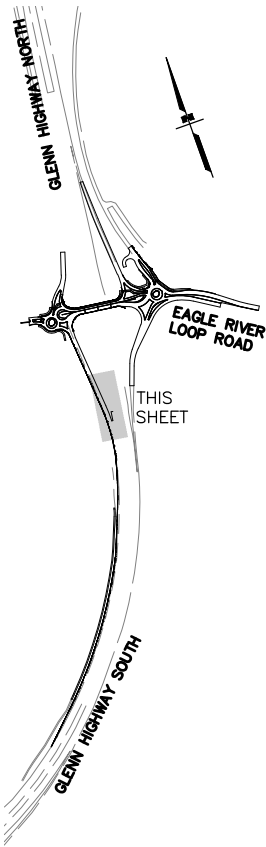
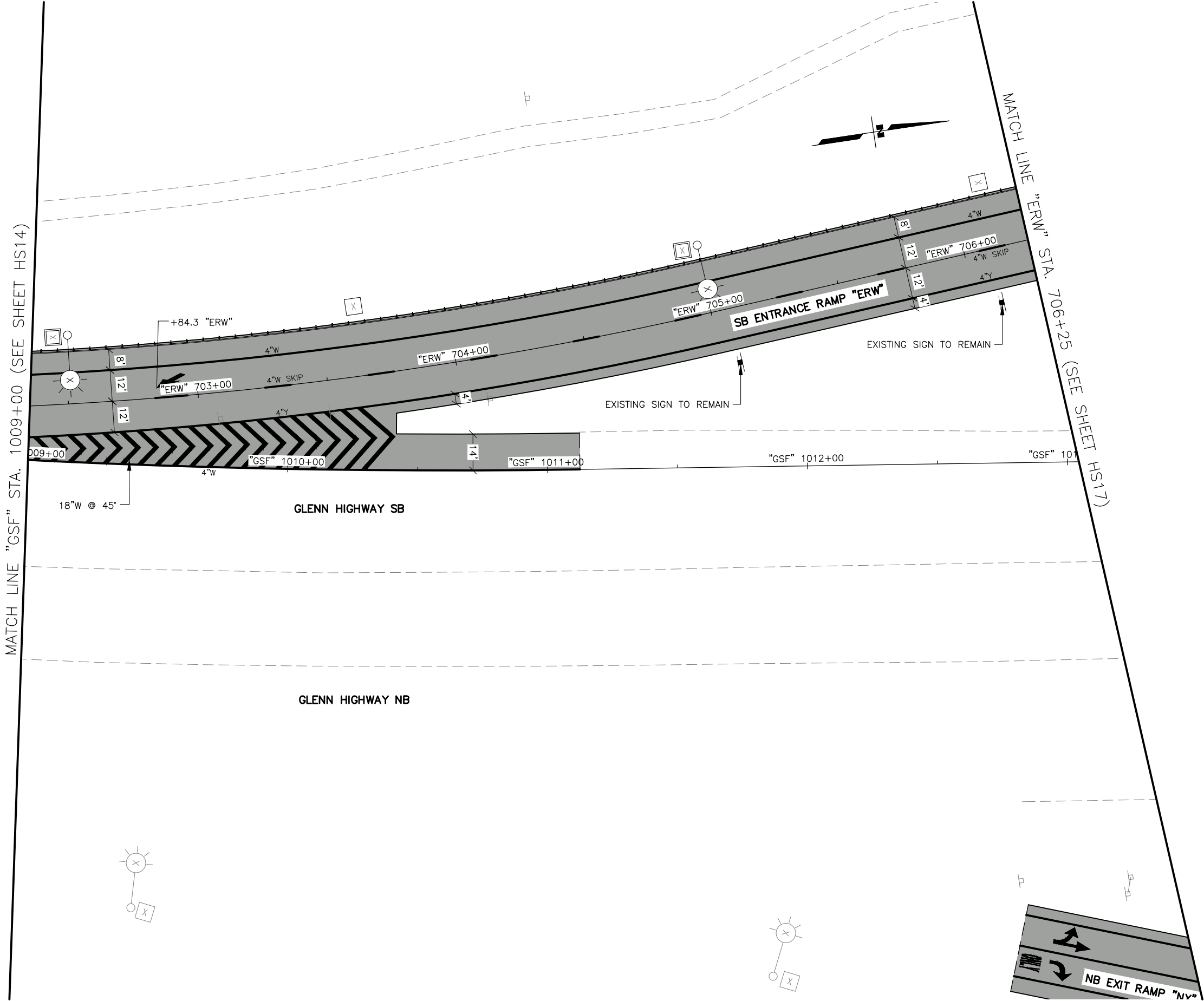
PIH REVIEW
SEPT 2025

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 1003+75 TO
STA 1009+00)



PIH
REVIEW
SEPT 2025

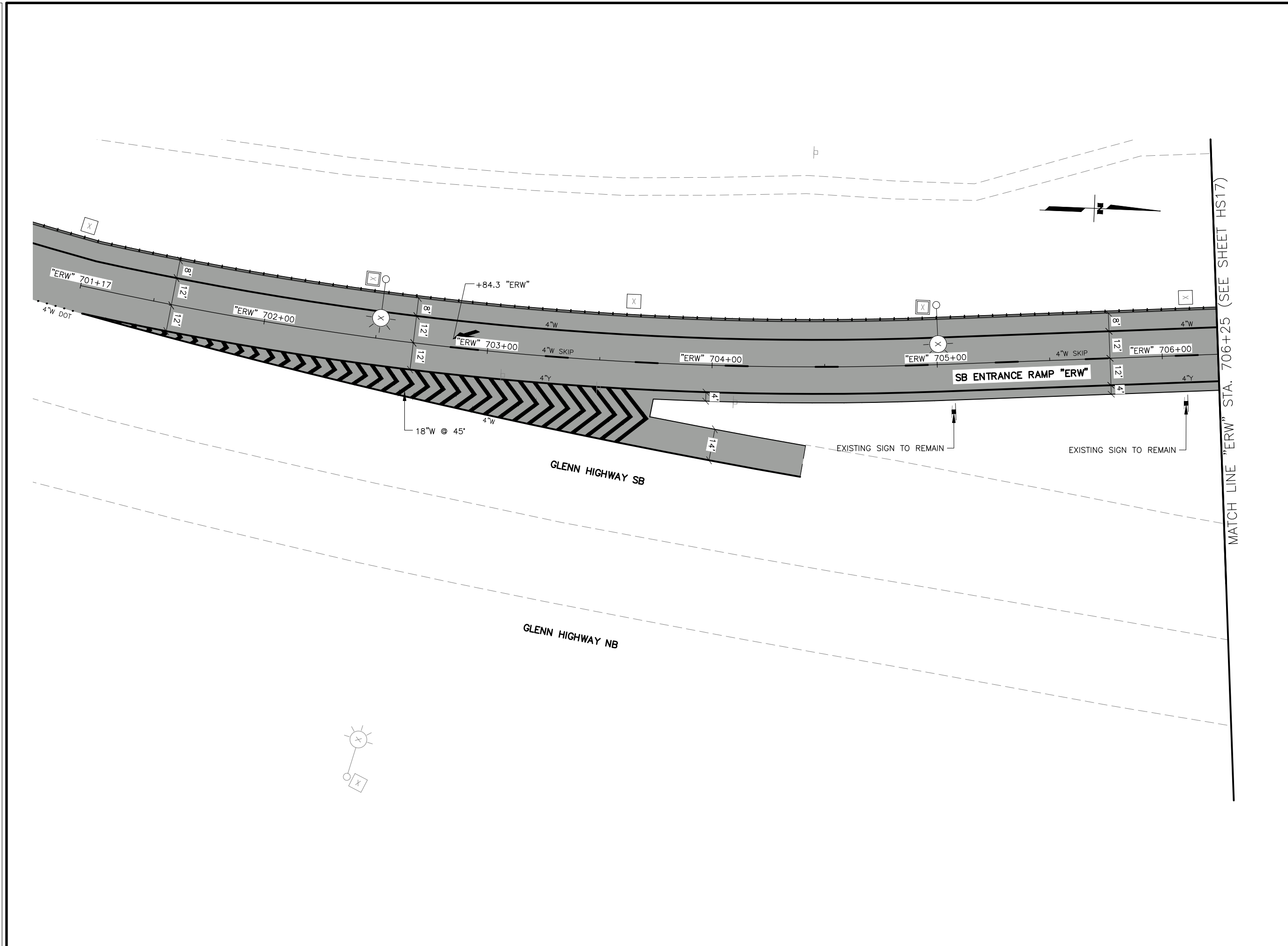
ALASKA
PROJECT ENGINEER
DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
(907) 562-2000
AECL848

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

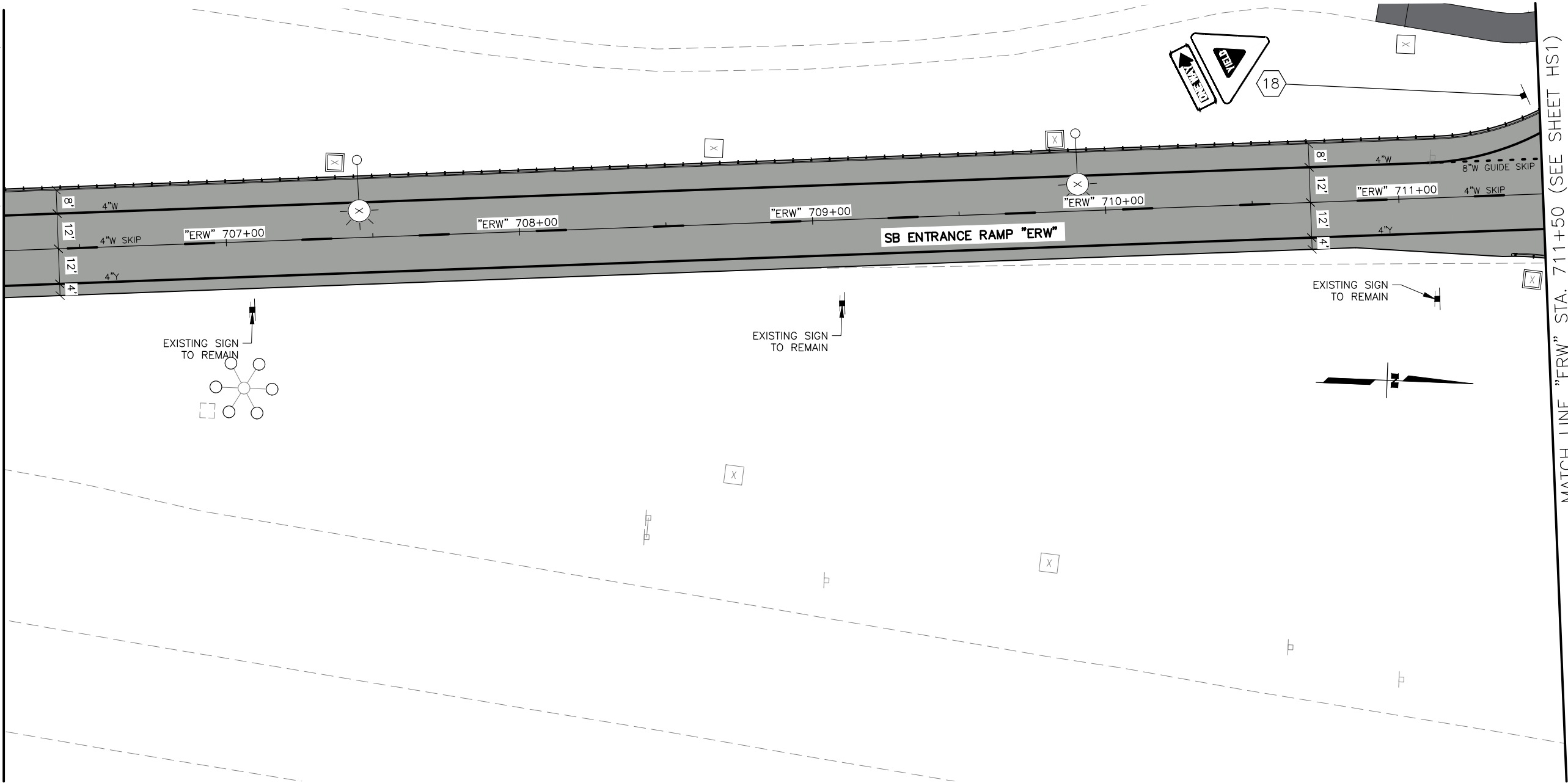
SIGNING AND STRIPING
PLAN (STA 1009+00 TO
STA 1014+25)

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SHEET NO.		TOTAL SHEETS	
HS16		HS18	
STATE		YEAR	
ALASKA		2026	
PROJECT DESIGNATION			
0A16055/ CFHWY00917			
NO.		REVISION	
DATE			
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DATE			
NO.		REVISION	
DATE			
NO.		REVISION	
DATE			
DOWL, LLC 5015 BUSINESS PARK BLVD, SUITE 4000 ANCHORAGE, AK 99503 (907) 562-2000 AECL848			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GLENN HWY & HILAND RD INTERCHANGE IMPROVEMENTS SIGNING AND STRIPING PLAN (STA 701+00 TO STA 706+25)			

MATCH LINE "ERW" STA. 706+25 (SEE SHEET HS16)



SHEET NO.	TOTAL SHEETS
HS17	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

THIS SHEET

PIH REVIEW

SEPT 2025

PROJECT ENGINEER

DATE

STATE OF ALASKA

5015 BUSINESS PARK BLVD, SUITE 4000

ANCHORAGE, AK 99503

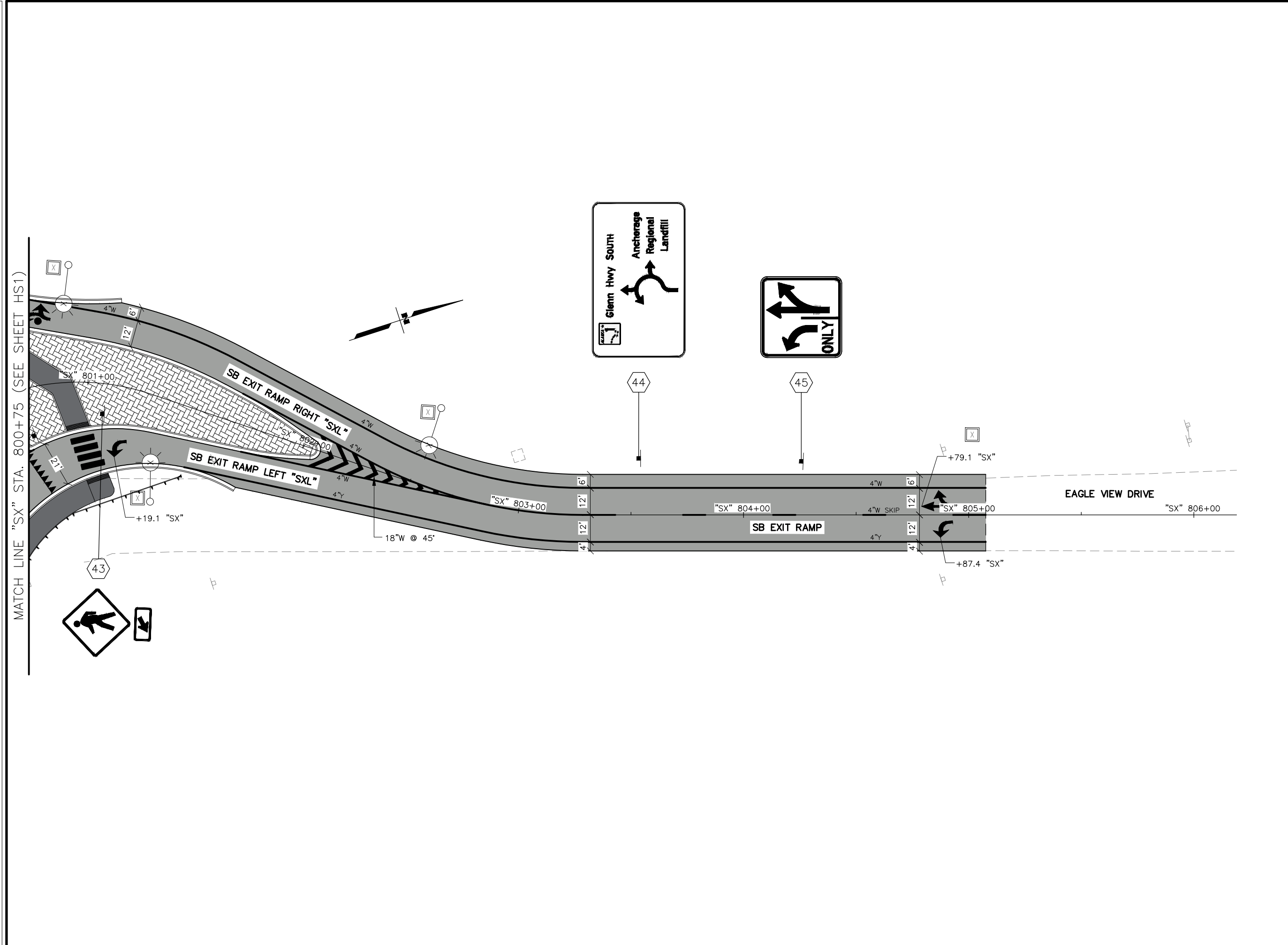
(907) 562-2000

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 706+25 TO
STA 711+50)



SHEET NO.	TOTAL SHEETS
HS18	HS18
STATE	YEAR
ALASKA	2026
PROJECT DESIGNATION	
0A16055/ CFHWY00917	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

GLENN HIGHWAY NORTH

GLENN HIGHWAY SOUTH

EAGLE RIVER LOOP ROAD

THIS SHEET

PIH REVIEW
SEPT 2025

DOWL, LLC
5015 BUSINESS PARK BLVD, SUITE 4000
ANCHORAGE, AK 99503
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

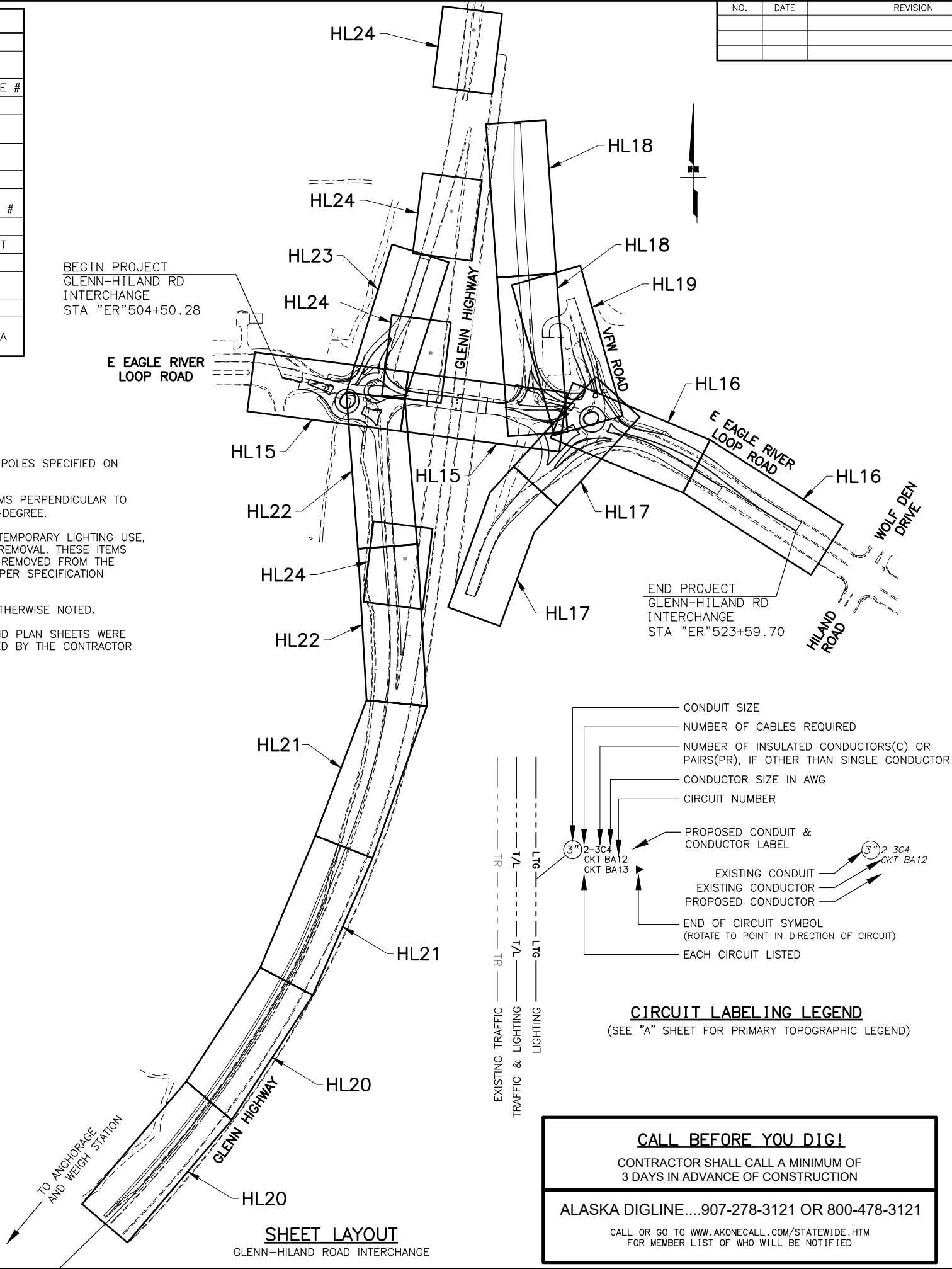
GLENN HWY & HILAND RD
INTERCHANGE IMPROVEMENTS

SIGNING AND STRIPING
PLAN (STA 800+75 TO
STA 806+00)

ABBREVIATIONS			
AWG	AMERICAN WIRE GAUGE	NB	NORTH BOUND
CAM	CAMERA	OMNI	OMNI DIRECTIONAL ANTENNA
EB	EAST BOUND	P#	TRAFFIC SIGNAL POLE #
GND	GROUND	PE	PHOTOELECTRIC CELL
HDPE	HIGH DENSITY POLYETHYLENE CONDUIT	PED B ##	PEDESTRIAN PUSH BUTTON #
HEAD	VEHICULAR SIGNAL HEAD	PEDI	PEDESTRIAN SIGNAL HEAD
SIG	SIGNAL	PRE #	PREEMPTION #
I/C	INTERCONNECT	PRE CON #	PREEMPTION CONFIRMATION LIGHT #
INTX	INTERSECTION	RAD	RADAR
INTXL	INTERSECTION LIGHTING	RMC	RIGID METAL CONDUIT
LC	LOAD CENTER	SB	SOUTH BOUND
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	TC	TRAFFIC CONTROLLER
LTG	LIGHTING	WB	WEST BOUND
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	YAGI	DIRECTIONAL ANTENNA

ILLUMINATION NOTES:

- FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND POLES SPECIFIED ON THE LUMINAIRE SUMMARIES.
- UNLESS OTHERWISE SHOWN ON THE PLANS, INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
- ONCE EXISTING ELECTROLIERS ARE NO LONGER NEEDED FOR TEMPORARY LIGHTING USE, REMOVE ELECTROLIERS AND LOAD CENTERS DESIGNATED FOR REMOVAL. THESE ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE PROJECT SITE. DEMOLISH ASSOCIATED LIGHTING FOUNDATIONS PER SPECIFICATION SECTION 660.
- REMOVE ABANDONED OR UNUSED JUNCTION BOXES UNLESS OTHERWISE NOTED.
- EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL1	HL24

ILLUMINATION SHEET INDEX

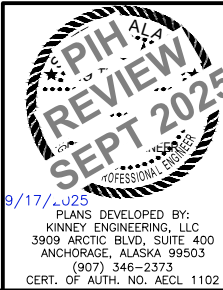
SHEET NO.	DESCRIPTION
HL1	ILLUMINATION NOTES, LEGEND AND SHEET LAYOUT
HL2	ARC FLASH AND SHOCK HAZARD LABELING DETAILS
HL3	JUNCTION BOX DETAILS
HL4	SPLICE DETAILS
HL5	PIPE PILE FOR ELECTROLIERS DETAIL
HL6	LIGHTING STANDARD 1 DETAIL
HL7	CIDH FOUNDATION POLE WIRING AND GROUNDING DETAILS
HL8	PIPE PILE FOUNDATION POLE WIRING AND GROUNDING DETAILS
HL9	JUNCTION BOX SUMMARY
HL10	LIGHTING SUMMARIES
HL11	ARC FLASH AND VOLTAGE DROP CALCS
HL12-HL13	LOAD CENTER SUMMARY
HL14	LUMINAIRE PERFORMANCE CRITERIA
HL15-HL24	ILLUMINATION PLAN

THE FOLLOWING STANDARD PLANS APPLY TO THE ILLUMINATION AND ELECTRICAL WORK FOR THIS PROJECT:

L-24, L-25, L30

FOUNDATION NOTES:

- STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON VEHICLE DETECTION LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
- LOCATE FOUNDATIONS AND J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
- INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
- INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:48 OF PLUMB.



STATE OF ALASKA
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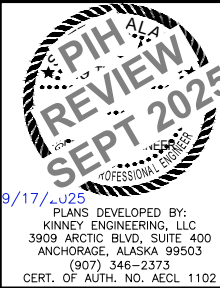
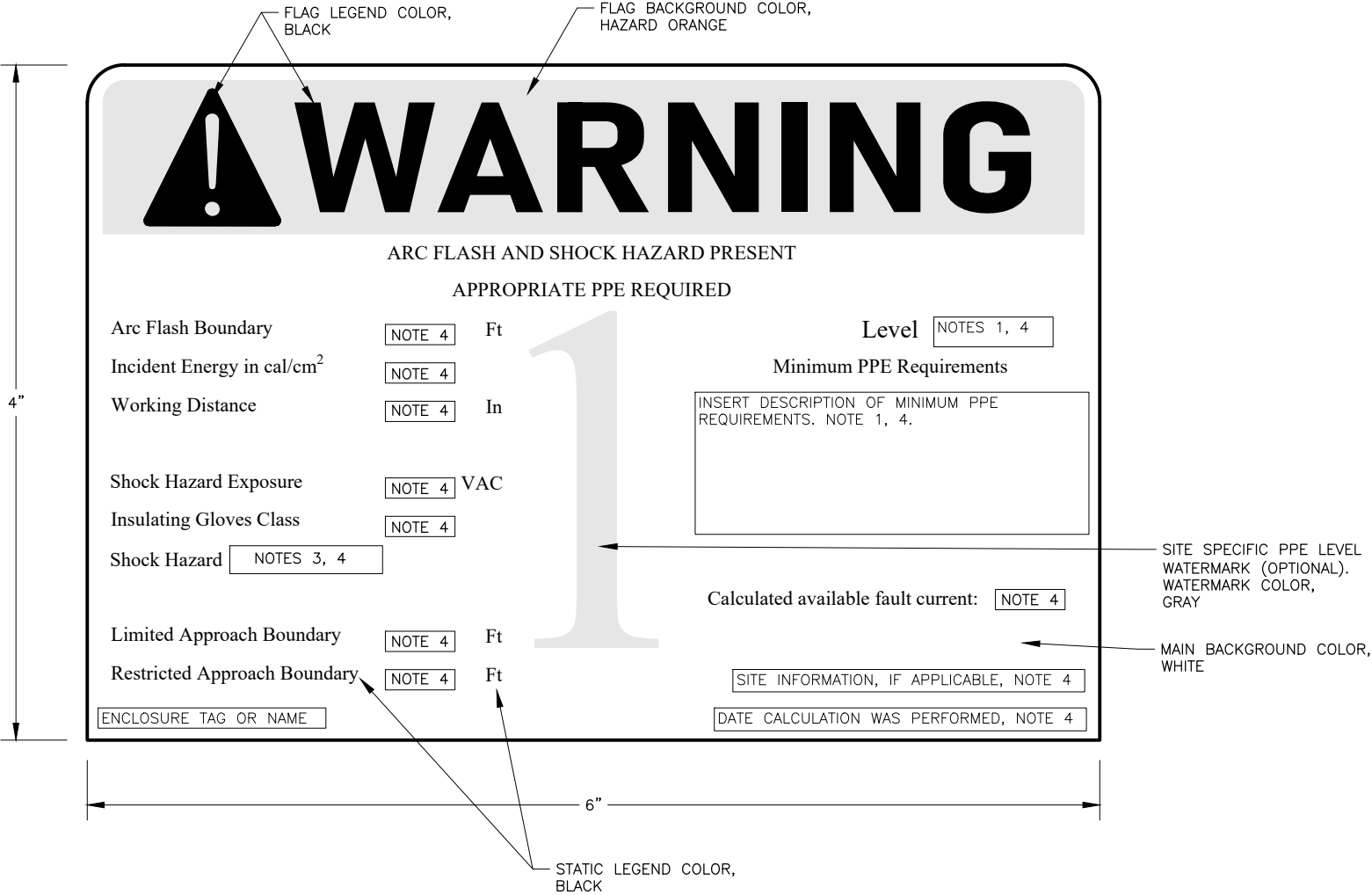
GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES

ILLUMINATION NOTES, LEGEND
AND SHEET LAYOUT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL2	HL24

NOTES:

1. APPLICABLE STATE OF ALASKA DOT&PF ELECTRICAL EQUIPMENT MUST BE LABELED WITH DOT&PF—DEFINED SITE—SPECIFIC PPE LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c). THE LEVELS ARE: LEVEL 1 (0 TO 4 CAL/CM²), 2 (4.1 TO 8.0 CAL/CM²), 3 (8.1 TO 25.0 CAL/CM²), 4 (25.1 TO 39.9 CAL/CM²), OR WP (WORK PROHIBITED, FOR EQUIPMENT IN WHICH THE CALCULATED ARC FLASH INCIDENT ENERGY IS GREATER THAN 40 CAL/CM²).
2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(c). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE—SPECIFIC PPE LEVELS.
3. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE "WHEN COVER REMOVED."
4. INSERT INFORMATION FROM ARC FLASH SUMMARY SHEET HL11 PER EACH LOAD CENTER. REFER TO LOAD CENTER SUMMARYS, ARC FLASH AND SHOCK HAZARD RESULTS, AND SHORT CIRCUIT CALCULATION TABLES PRESENTED IN THE PLANS FOR EACH LOAD CENTER.



STATE OF ALASKA
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DESIGN SERVICES

ARC FLASH AND SHOCK
HAZARD LABELING DETAILS

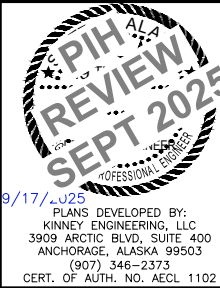
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SCALE
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TIME
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL3	HL24

NOTES:

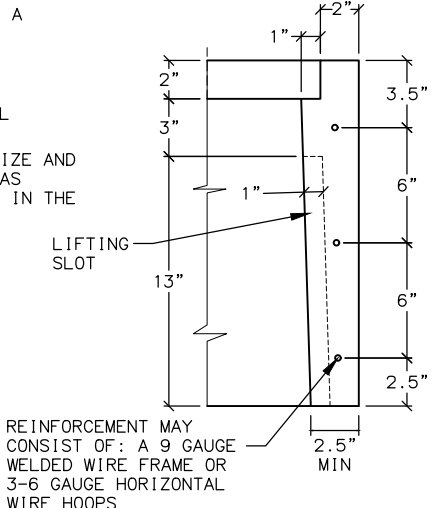
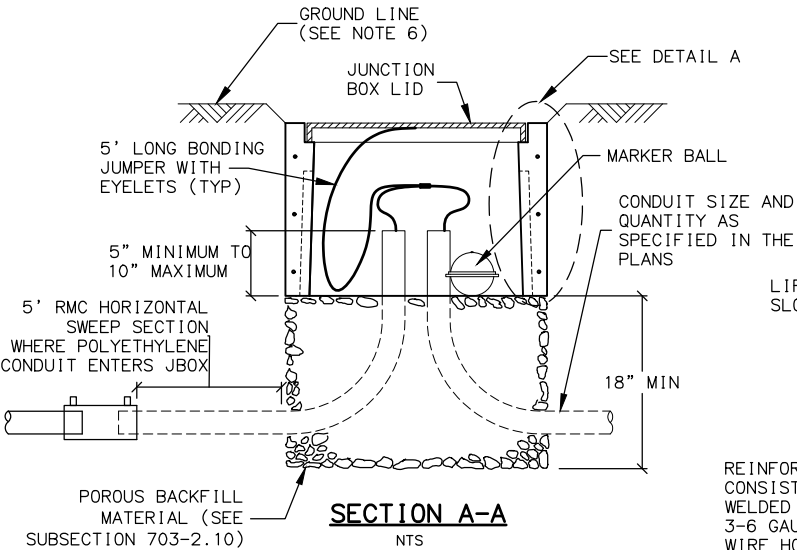
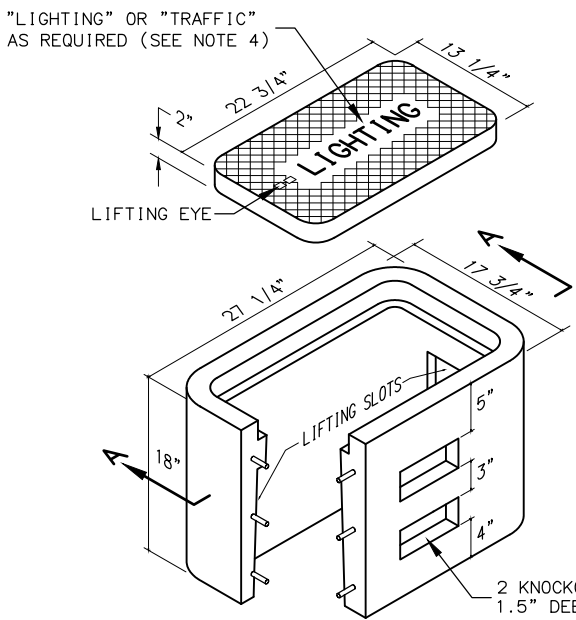
1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.
2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "LIGHTING" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
5. UNDER JUNCTION BOXES, INSTALL POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10, GRADATION A.
6. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
1" IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
1/4" IN PEDESTRIAN FACILITIES
2" IN ALL OTHER AREAS
7. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
8. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE 1A JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
9. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
10. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
11. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4-INCHES TALL BY 5-INCHES WIDE. THE WIRE STAFF SHALL BE 21-INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL.
12. WHERE MODIFIED TYPE II JUNCTION BOXES ARE REQUIRED FOR DETECTOR LOOP TAIL INSTALLATIONS, ADD ONE(1) ADDITIONAL 5" DEEP X 3" HIGH X 18" WIDE KNOCKOUT 8" BELOW TOP OF JUNCTION BOX.

J-BOX DIMENSIONS						
J-BOX TYPE	DIMENSIONS					
	A (MAX.)	B (MAX.)	C (MIN.)	D (MIN.)	E (MIN.)	
II	29 1/2"	29 1/2"	22"	22"	24"	
III	29 1/2"	29 1/2"	22"	22"	24"	
IV	30"	36"	30"	24"	30"	

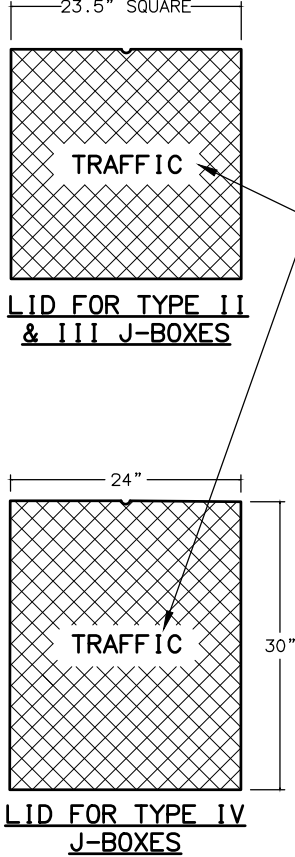
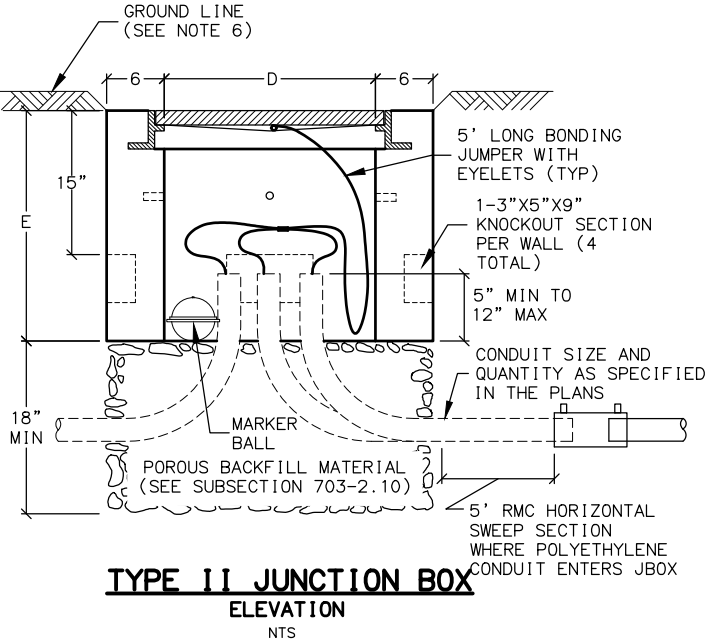
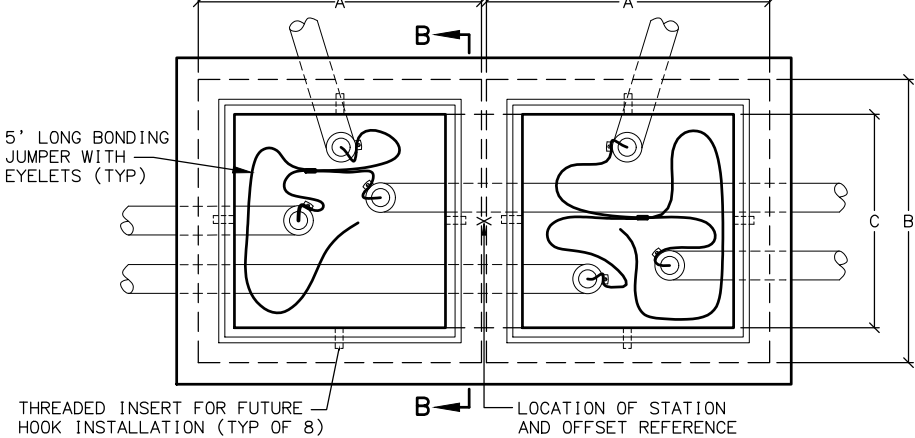
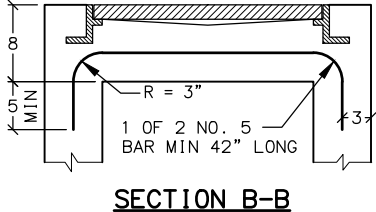
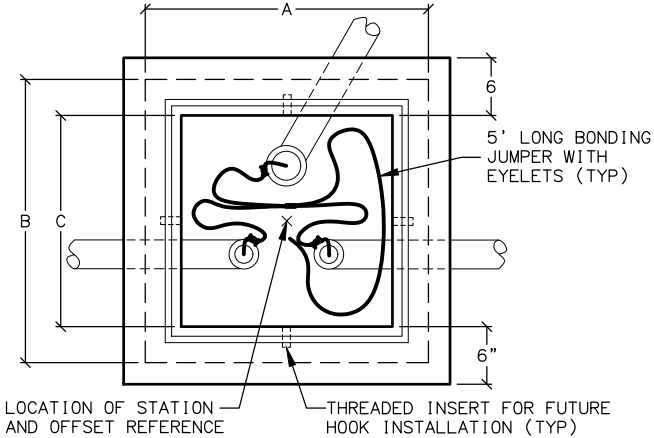


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**GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES**

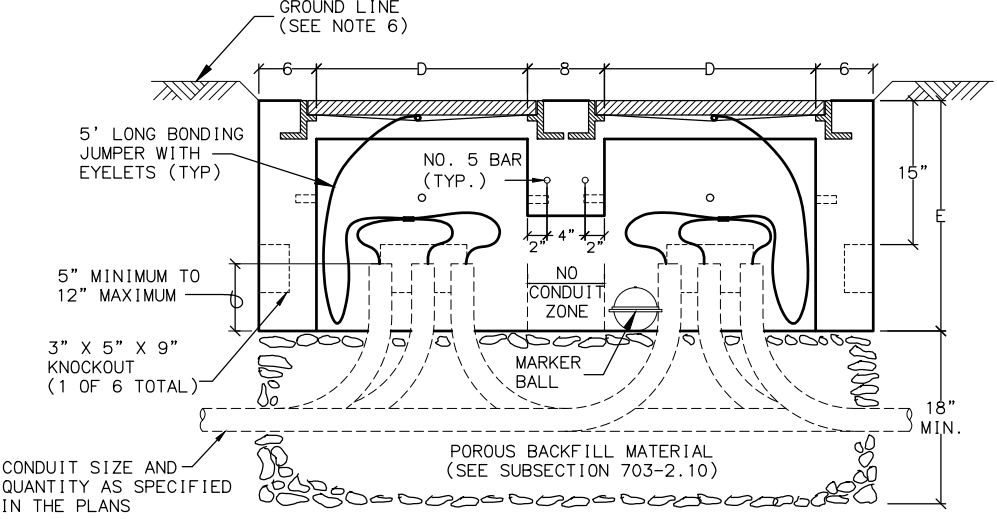
JUNCTION BOX DETAILS



TYPE IA JUNCTION BOX



"LIGHTING" OR "TRAFFIC"
AS REQUIRED (SEE NOTE 4)



TYPE III/IV JUNCTION BOX
ELEVATION (TYPE III LAYOUT DEPICTED)

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
1" = 1'

DATE
9/17/2025 2:07 PM

DRAWING LOCATION
Z:\PROJECTS\00756_GLENN-HILAND\DWGS\CSHEETS\00917_HILO4_SPLICE_DETAILS.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL4	HL24

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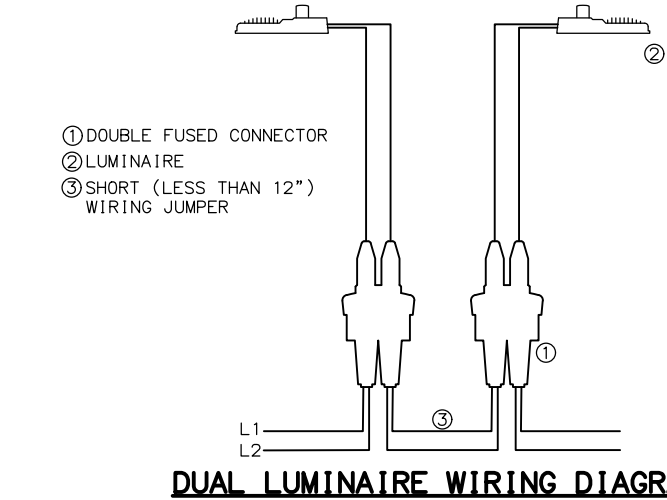
LOOP LEAD-IN SPLICE

1. FABRICATE LOOP LEAD-IN SPLICE IN THE FIELD AS SHOWN.
2. CAP SEAL ONE END AND COMPLETELY FILL OPEN END WITH RE-ENTERABLE ENCAPSULATION COMPOUND TO EDGE OF TUBING.
3. LEAVE A MINIMUM OF 1/2" CLEARANCE BETWEEN THE ENCLOSURE AND THE SPLICE AT BOTH ENDS OF THE TUBING.
4. EXPOSE FOIL AND DRAIN WIRES, SEAL WITH HEAT SHRINK TUBING (TYP).
5. INSTALL SPLICE CONNECTORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

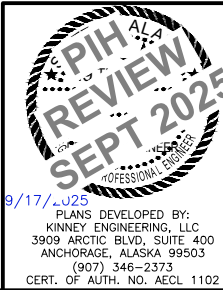
POWER CABLE SPLICE

6. SECURE CABLE/CONNECTOR BUNDLE WITH HOSE CLAMPS AS SHOWN.

MATERIAL PROPERTIES	
LOOP LEAD-IN SPLICE	
TUBING	PER SECTION 660-3.05
CAP SEAL	FERNCO QWIK CAP #QC-102, OR APPROVED EQUAL
HOSE CLAMP	STAINLESS STEEL
SPLICE CONNECTOR	ML56-16, OR APPROVED EQUAL
COMPOUND	RE-ENTERABLE ENCAPSULATION
POWER CABLE SPLICE	
SPLICE KIT	3M MODEL 78R, OR APPROVED EQUAL
SPLICE CONNECTOR	SCOTCHLOCK G, R, OR Y SPRING CONNECTOR, OR APPROVED EQUAL
HOSE CLAMP	(4)- STAINLESS STEEL
EPOXY RESIN	PER SECTION 660-3.05
DOUBLE FUSED CONNECTOR	
DOUBLE FUSED CONNECTOR	SEC-1791-DF-1, OR APPROVED EQUAL
FUSES	(2) - COMPATIBLE 5-AMP TIME DELAY TYPE FOR LED FIXTURE OR 10-AMP FAST ACTING FOR ALL OTHER FIXTURES



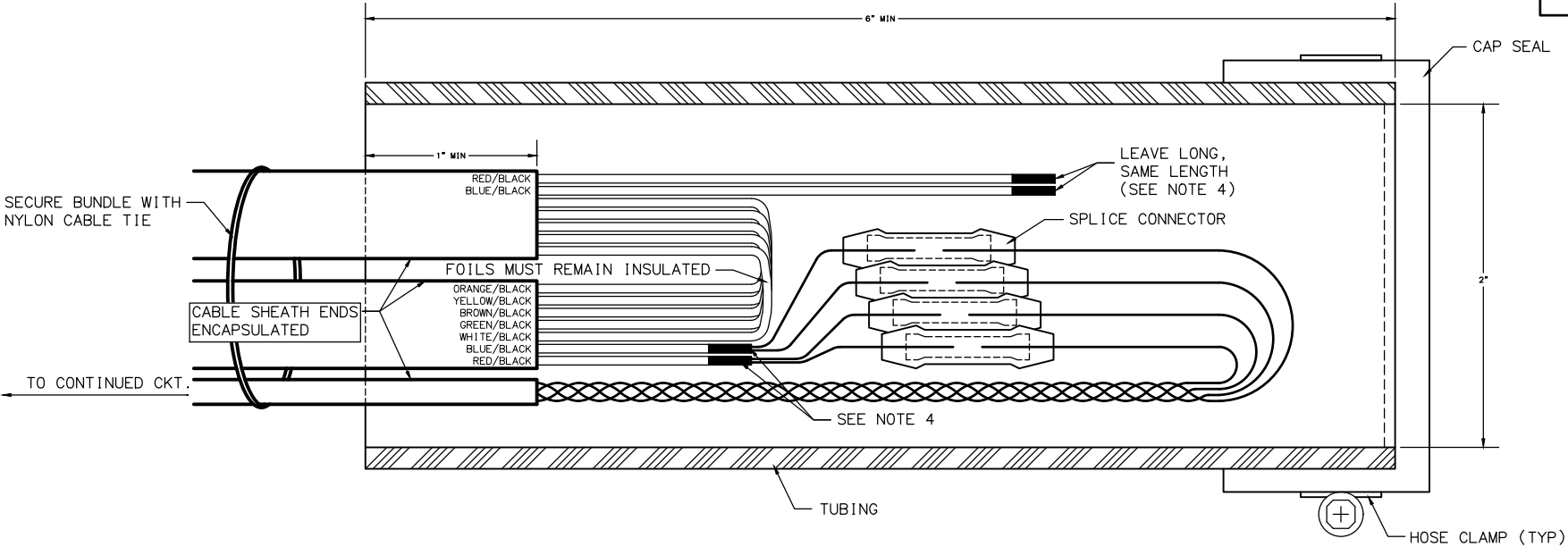
DUAL LUMINAIRE WIRING DIAGRAM



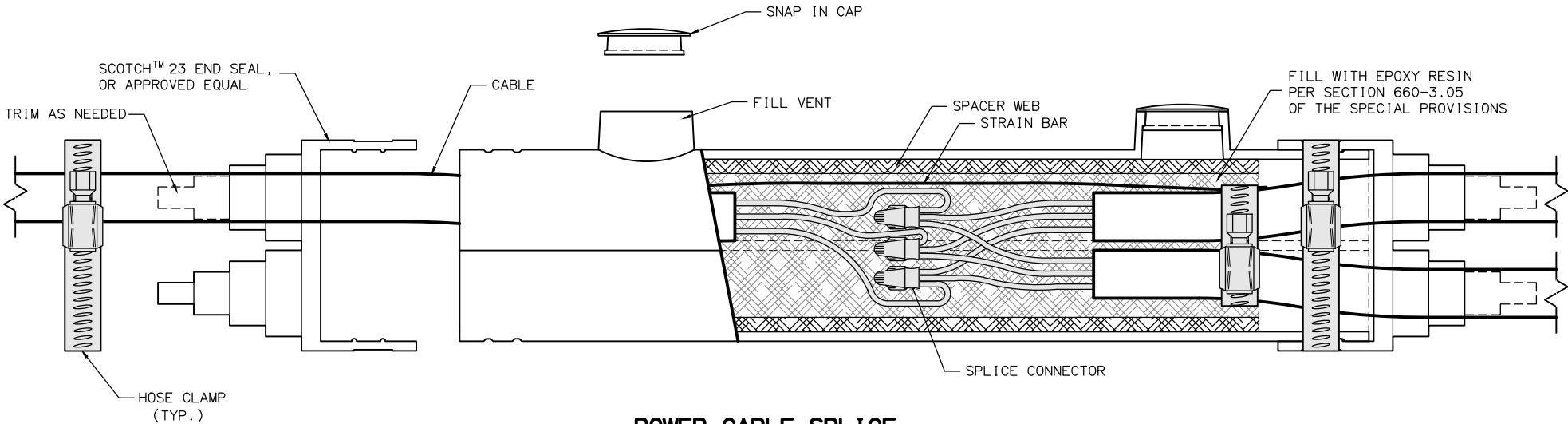
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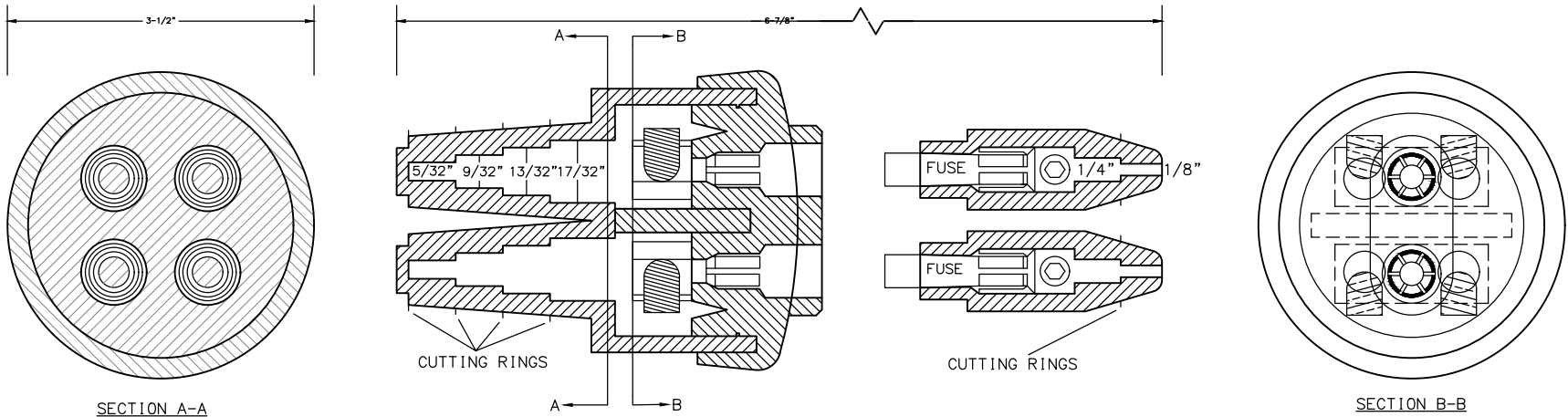
SPLICE DETAILS



LOOP LEAD-IN SPLICE

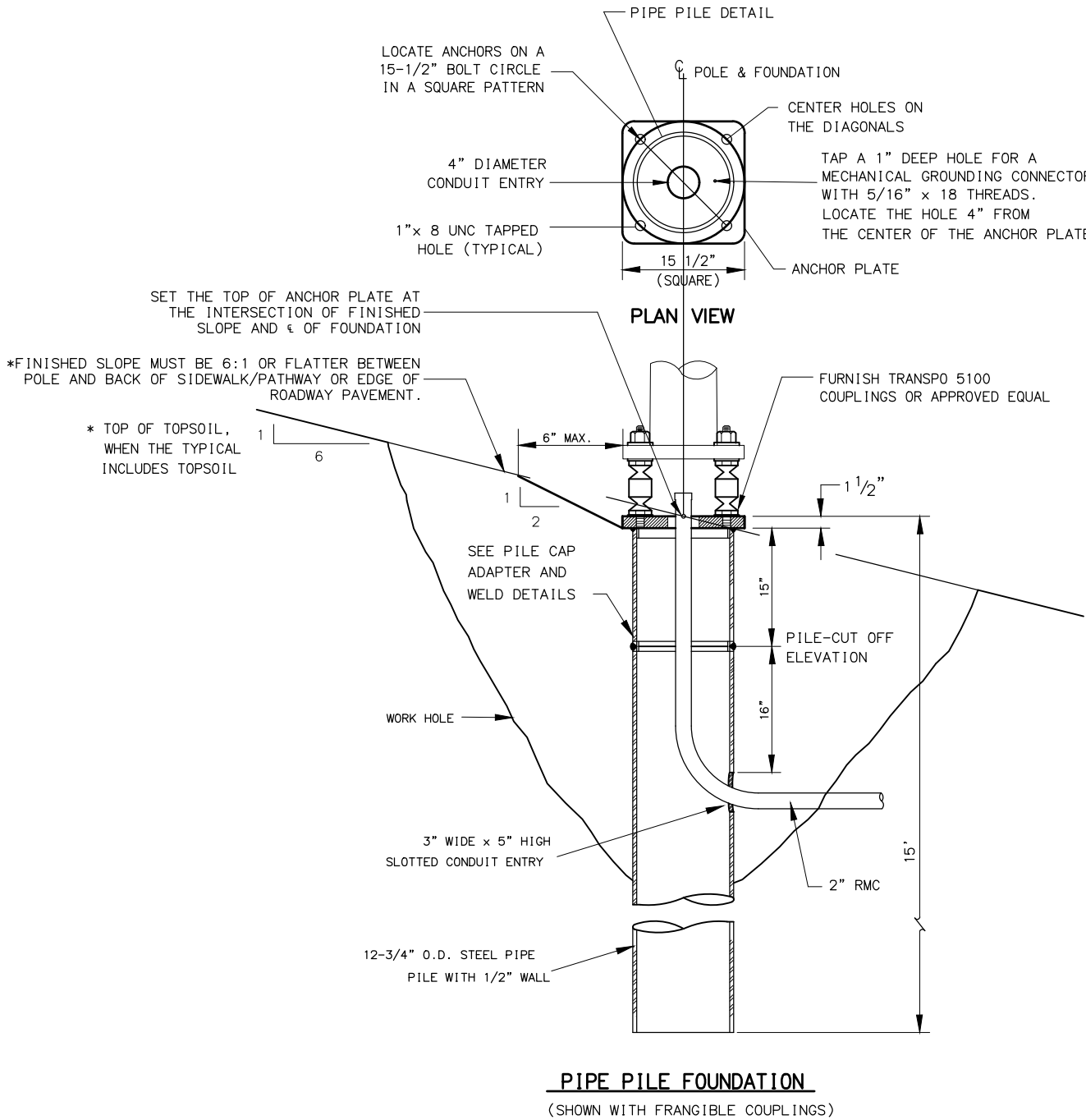


POWER CABLE SPLICE



DOUBLE FUSED CONNECTOR

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL5	HL24



DESIGN NOTES:

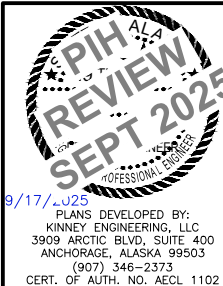
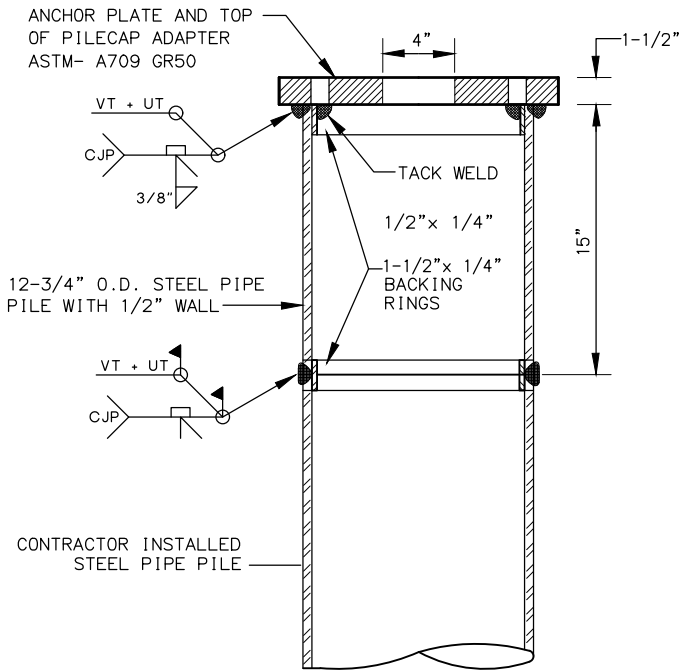
- DESIGN STANDARD: 2001 STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRE AND TRAFFIC SIGNALS WITH 2006 INTERIM.
- DESIGN LOADS: 5-KIPS AXIAL, 7.5-KIPS SHEAR, 40-KIP-FT MOMENT.
- GALVANIZATION OF PILE IS NOT REQUIRED. UNLESS THE GROUND WATER TABLE IS FOUND TO BE, ABOVE 5 FEET, THEN GALVANIZE PILE ACCORDING TO SECTION 505.
- CHARPY TEST FOR ELECTROLIER POLE PILE FOUNDATIONS ARE NOT REQUIRED.

MATERIAL REQUIREMENTS

STRUCTURAL STEEL PLATE	ASTM A709 GRADE 50	Fy = 50 ksi
STEEL PIPE PILE	ASTM A709, GRADE 50 T3 API 5L GRADE X 42	Fy = 50 ksi Fy = 42 ksi

NOTES:

- FURNISH STEEL PIPE PILES THAT CONFORM TO THE MATERIAL REQUIREMENTS AND SECTION 660, 715 AND 740 OF THE SPECIFICATIONS. NO SPLICES ARE ALLOWED BELOW THE PILECAP ADAPTER.
- DRIVE PILES OPEN ENDED. COMPLETE PILE WORK ACCORDING TO SECTIONS 505, 660 AND 715 OF THE SPECIFICATIONS. REMOVE AND REINSTALL PILES OUT OF PLUMB MORE THAN 1:40.
- FRESH HEAD THE TOP OF PILES IN A LEVEL PLANE AND CUT THE CONDUIT ENTRANCE HOLE AFTER DRIVING THE PILE. NOTE; ONLY MECHANICAL OR PLASMA CUTTER MEANS ARE PERMITTED. OXY-FUEL CUTTING IS PROHIBITED.
- FURNISH ONLY SHOP FABRICATED PILECAP ADAPTERS. INCLUDE STAMPED ENGINEERING CALCULATIONS, DRAWINGS, MILL CERTIFICATIONS AND WELDING PLANS FOR PILECAP ADAPTERS AND THE PILECAP ADAPTER TO PILE WELD. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AWS D1.1, STRUCTURAL WELDING CODE-STEEL AND THE SPECIFICATIONS.
- WAIT AT LEAST 3 DAYS AFTER BACKFILLING THE WORK HOLE BEFORE ERECTING THE LUMINAIRE POLE.
- TERMINATE CONDUIT(S) 3" ABOVE THE TOP OF THE ANCHOR PLATE. INSTALL A GROUNDING BUSHING ON THE END OF THE RIGID METAL CONDUIT AND ESTABLISH A BOND WITH THE ANCHOR PLATE.



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DEPARTMENT OF TRANSPORTATION
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GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES

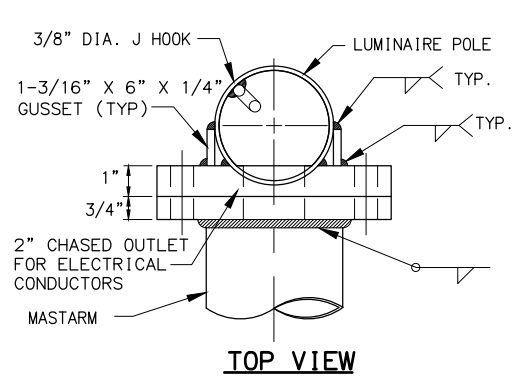
PIPE PILE FOR ELECTROLIERS
DETAIL

DESIGNED BY
CHECKED BY
DRAFTED BY
SCALE
1" = 1'
DATE
TIME
9/17/2025 2:07 PM
DRAWING LOCATION
Z:\PROJECTS\00756- GLENN-HILAND\DWGS\C\ SHEETS\00917_HL06_LIGHT STANDARD 1 DETAIL.DWG

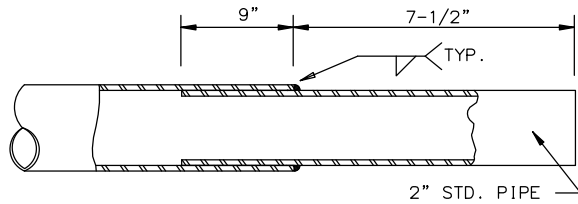
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16055/CFHWY00917	2025	HL6	HL24

NOTES:

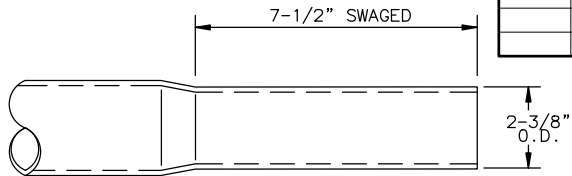
- DESIGN AND FABRICATE ALL SHAFTS TO SUPPORT A MASTARM 22 FEET LONG WITH LUMINAIRE. ASSUME EACH LUMINAIRE WEIGHS 55 POUNDS AND HAS AN EFFECTIVE PROJECTED AREA OF 1.2 SQUARE FEET. WITH THIS DEAD LOAD, LIMIT THE ANGULAR ROTATION TO THE POLE TOP 1°40'0" MAXIMUM.
- WELD SIZE TO BE DETERMINED BY THE MANUFACTURER.
- MOUNTING HEIGHT, IF SPECIFIED IN THE PLANS, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER SLOPE AND/OR OFFSET VARIES.
- MINIMUM OUTSIDE DIAMETER AT THE TOP OF POLE EQUALS 3-7/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF THE POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.14" PER FOOT.
- APPLY AN ANTI-SEIZING COMPOUND TO ALL THREADED SURFACES, INCLUDING THOSE IN THE ANCHOR PLATE AND ON THE COUPLINGS.
- MASTARM RISE MAY VARY ±6" FROM THE VALUES LISTED IN THE TABLE.
- LOCATE THE HANDHOLE AT 90 DEGREES TO THE MASTARM ON THE SIDE OF POLE DOWNSTREAM FROM TRAFFIC FLOW.
- FURNISH ALL POLES WITH A J-HOOK TO SUPPORT THE ILLUMINATION TAP CONDUCTORS. FURNISH ALL MASTARM POLES WITH A REMOVABLE RAIN TIGHT CAP.
- MOUNT LIGHTING STANDARDS UPON TRANSPO MODEL NO. 5100 FRANGIBLE COUPLINGS AND TRANSPO TYPE B FEMALE ANCHORS, OR APPROVED EQUAL.
- INSTALL ALL COMPONENTS OF THE BREAKAWAY SUPPORT SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- FABRICATE THE SKIRT FROM FOUR PIECES OF 1/16" THICK 3003 H-14 ALUMINUM SHEET. BEND EACH PLATE TO PROVIDE CORNERS WITH A 3/4" RADIUS. ASSEMBLE THE SKIRT WITH #10 X 3/8" SELF TAPPING STAINLESS SCREWS OR POP RIVETS. THE ASSEMBLED SKIRT MEASURES ABOUT 12-3/4" SQUARE.
- A JUNCTION BOX IS REQUIRED AT EACH NEW ELECTROLIER. INSTALL THE JUNCTION BOX IMMEDIATELY BEHIND THE FOUNDATION APPROXIMATELY 7' FROM POLE UNLESS OTHERWISE SPECIFIED IN THE PLANS.



TOP VIEW



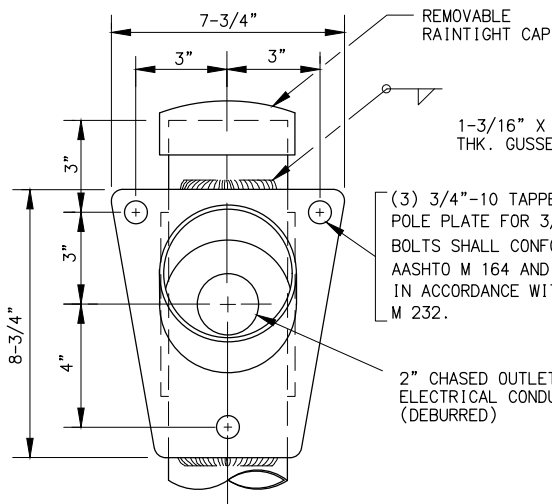
TENON



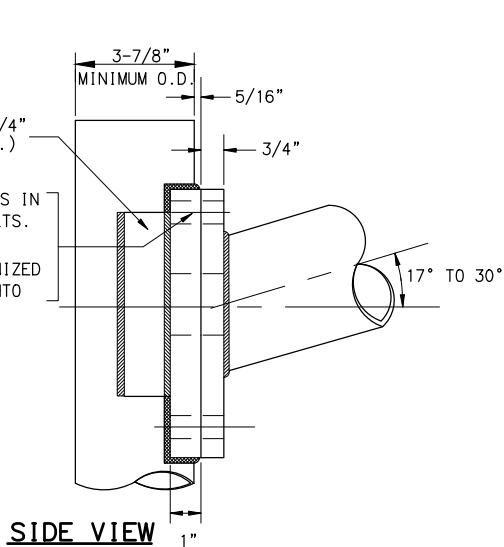
OPTIONAL SWAGED TENON

END OF MASTARM DETAIL

NTS

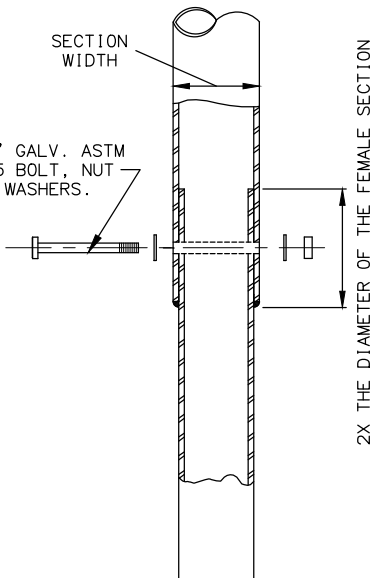


FRONT VIEW

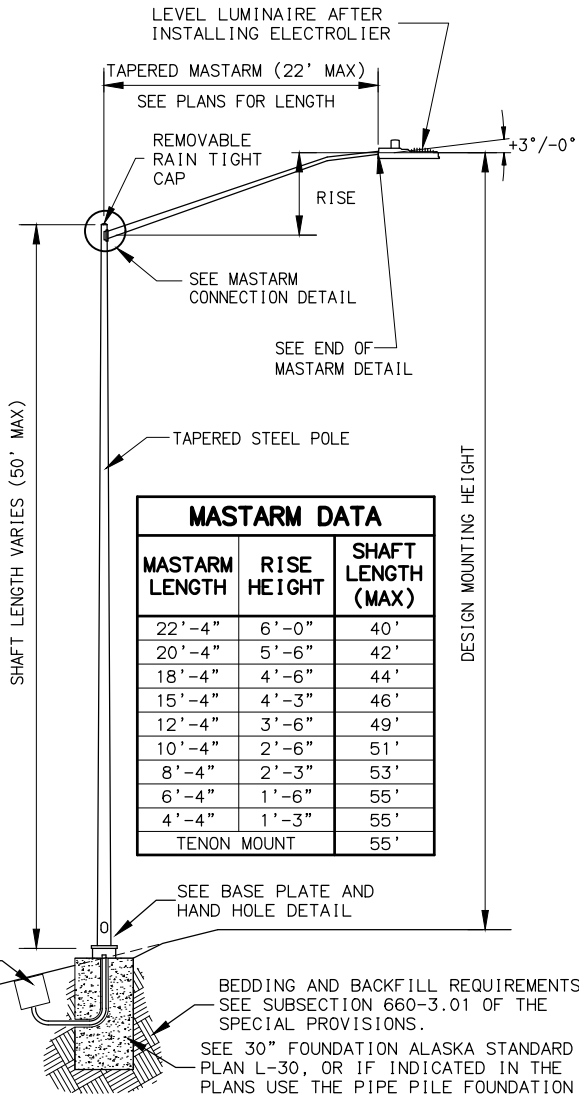


SIDE VIEW

MASTARM CONNECTION DETAIL



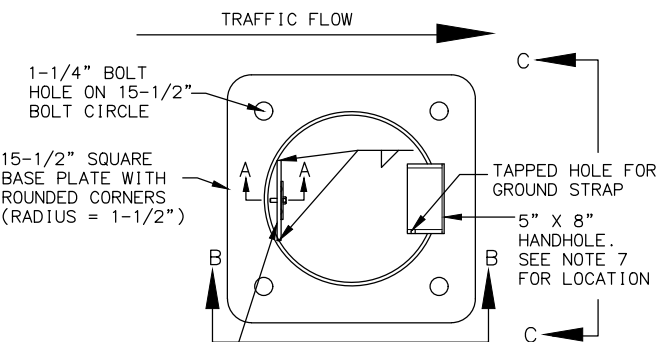
POLE CONNECTION DETAIL



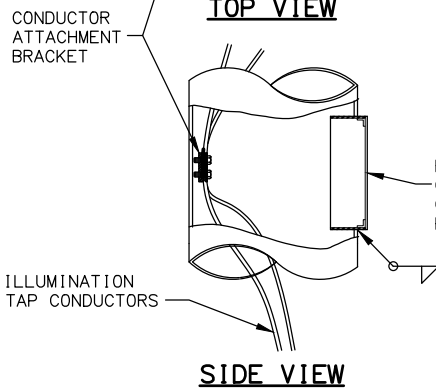
ELECTROLIER ELEVATION

MASTARM TYPE

MASTARM DATA		
MASTARM LENGTH	RISE HEIGHT	SHAFT LENGTH (MAX)
22'-4"	6'-0"	40'
20'-4"	5'-6"	42'
18'-4"	4'-6"	44'
15'-4"	4'-3"	46'
12'-4"	3'-6"	49'
10'-4"	2'-6"	51'
8'-4"	2'-3"	53'
6'-4"	1'-6"	55'
4'-4"	1'-3"	55'
TENON MOUNT		
		55'

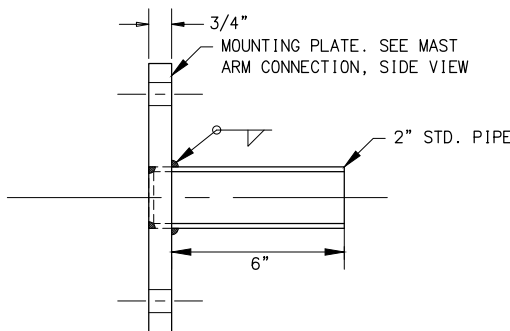


TOP VIEW

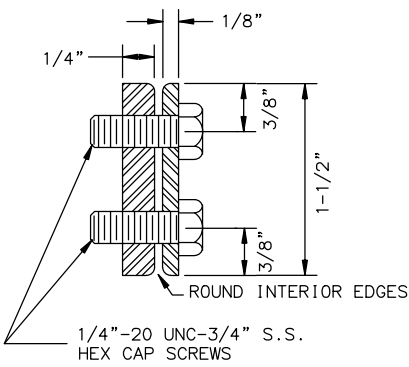


SIDE VIEW

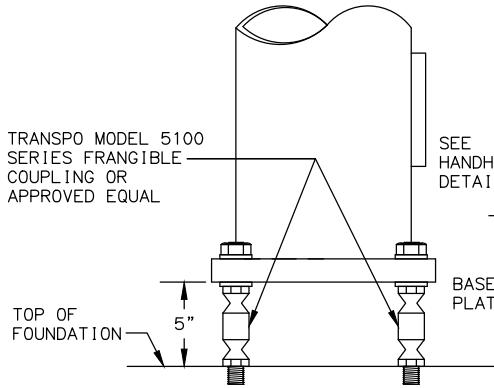
BASE PLATE AND HAND HOLE DETAIL



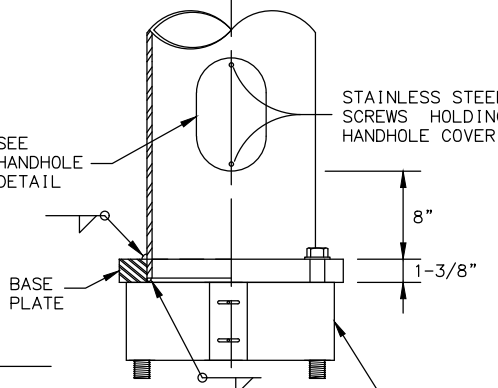
TENON MOUNT DETAIL



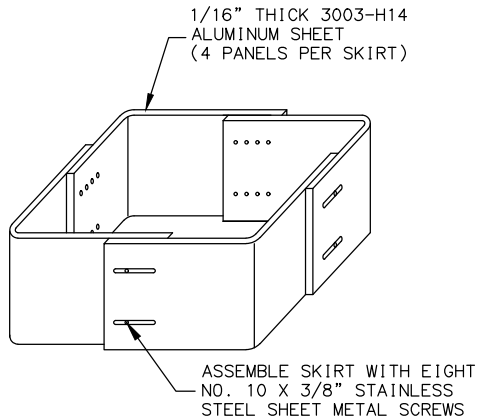
SECTION A-A



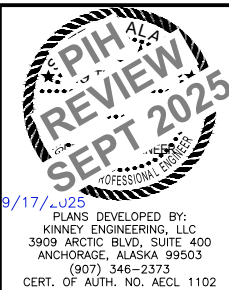
VIEW B-B



VIEW C-C



SKIRT DETAIL



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES**

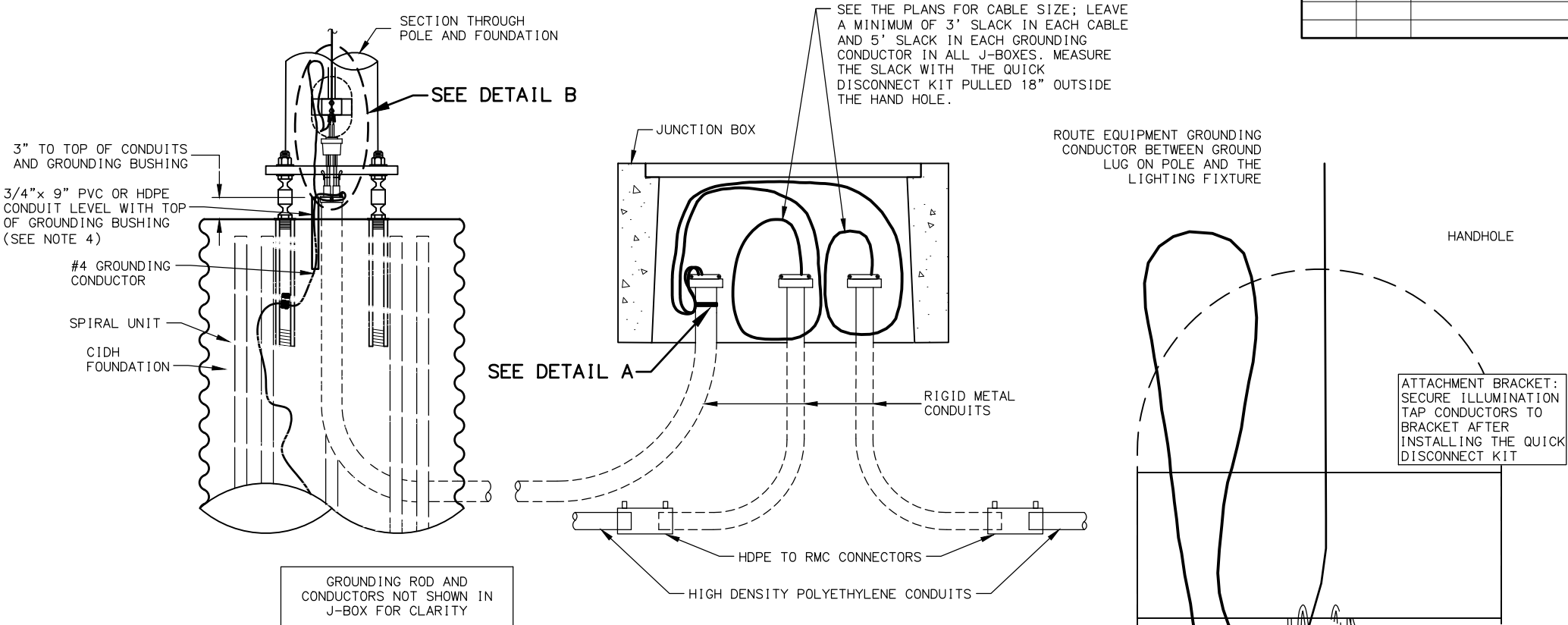
LIGHTING STANDARD 1 DETAIL

DESIGNED BY
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SCALE
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DATE
9/17/2025 2:07 PM
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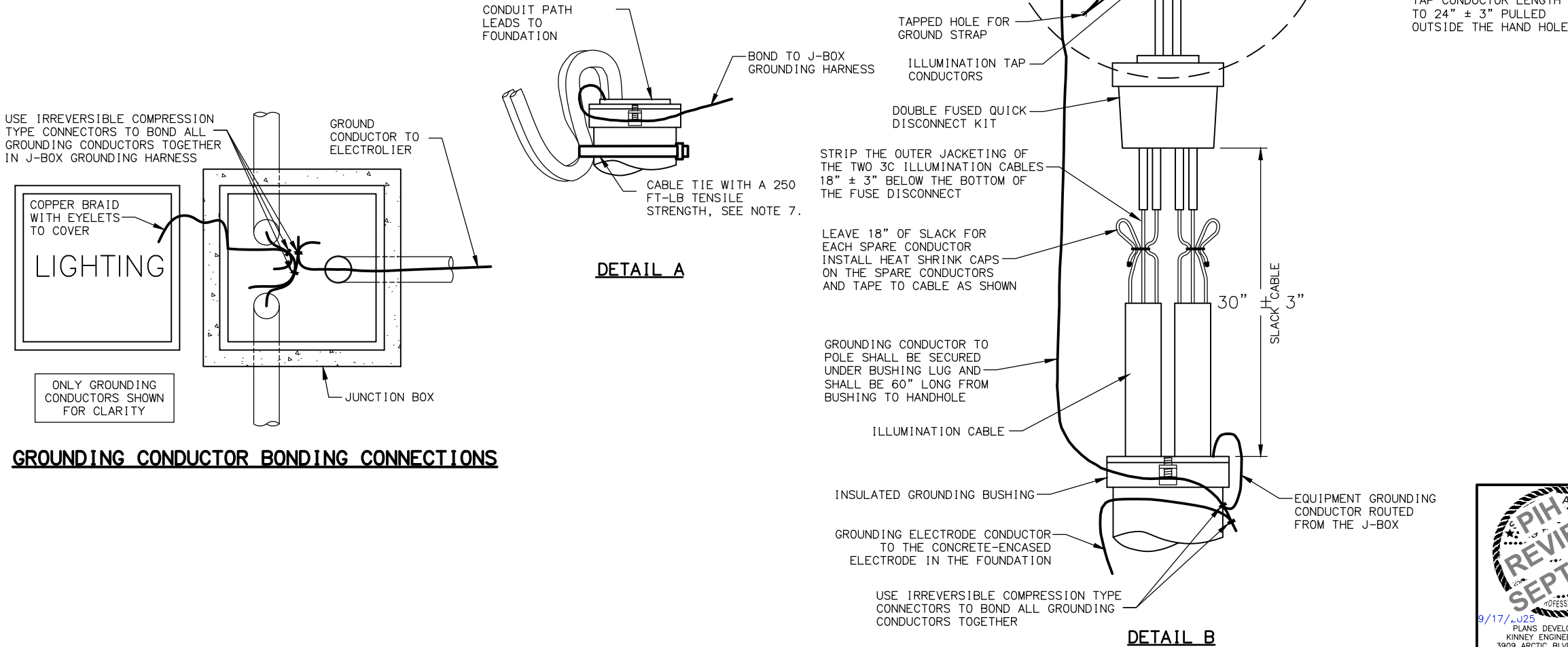
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL7	HL24

NOTES:

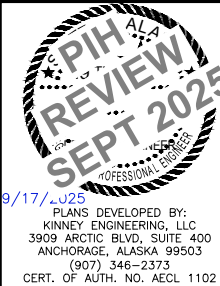
1. APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
2. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
3. MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING ELECTRODE CONDUCTOR TO THE CONCRETE-ENCASED ELECTRODE IN THE FOUNDATION SHALL BE #4 AWG.
4. USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. PROTECT GROUND WIRE WITH 3/4" PVC OR HDPE CONDUIT TO 6" BELOW TOP OF FOUNDATION FILLED WITH SILICONE SEALANT.
6. WHEN PLANS INDICATE TWO FIXTURES ARE TO BE INSTALLED ON A SINGLE POLE, INSTALL A SECOND DOUBLE FUSED QUICK DISCONNECT KIT. USE TWO 12" (MAX.) JUMPER CABLES INSTALLED ON THE LINE SIDE OF THE FUSES AND SIZE THE JUMPER CABLES TO MATCH THE CABLES ENTERING THE FOUNDATION. EACH FIXTURE SHALL BE POWERED THROUGH A DEDICATED DOUBLE FUSED QUICK DISCONNECT KIT.
7. CONDUCTOR BENDS MUST BE MADE SO AS NOT TO DAMAGE THE CABLE. DO NOT BEND BEYOND THE CABLE'S MINIMUM BEND RADIUS. USE 3.5" MINIMUM BEND RADIUS FOR 3C8 & 3C6 TYPE TC NON-SHEATHED CABLES.



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



GROUNDING CONDUCTOR BONDING CONNECTIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

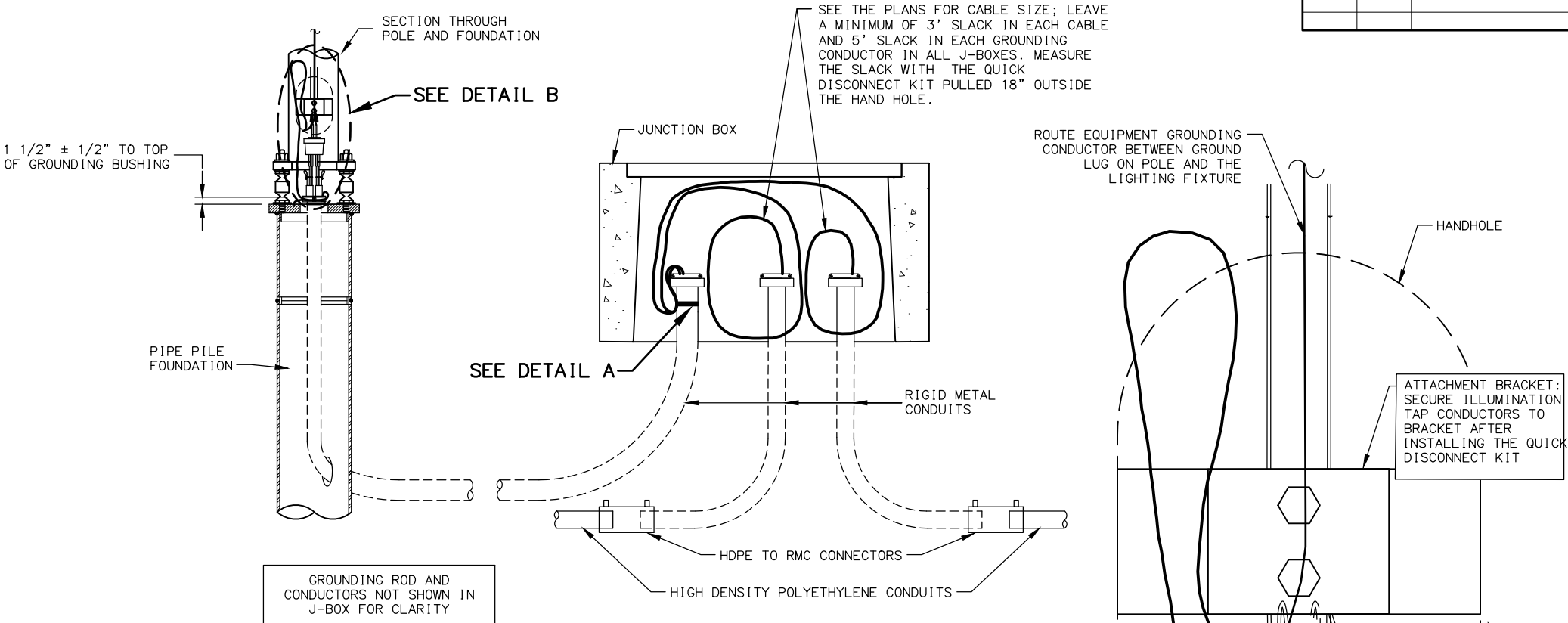
GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES

CIDH FOUNDATION POLE WIRING
AND GROUNDING DETAILS

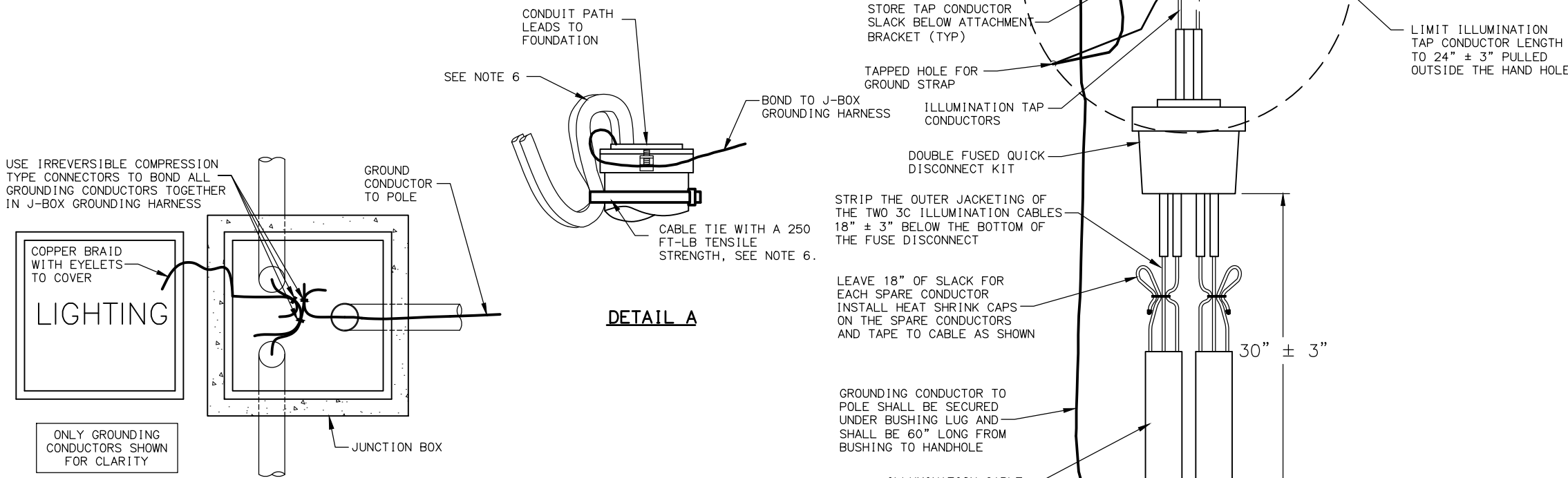
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL8	HL24

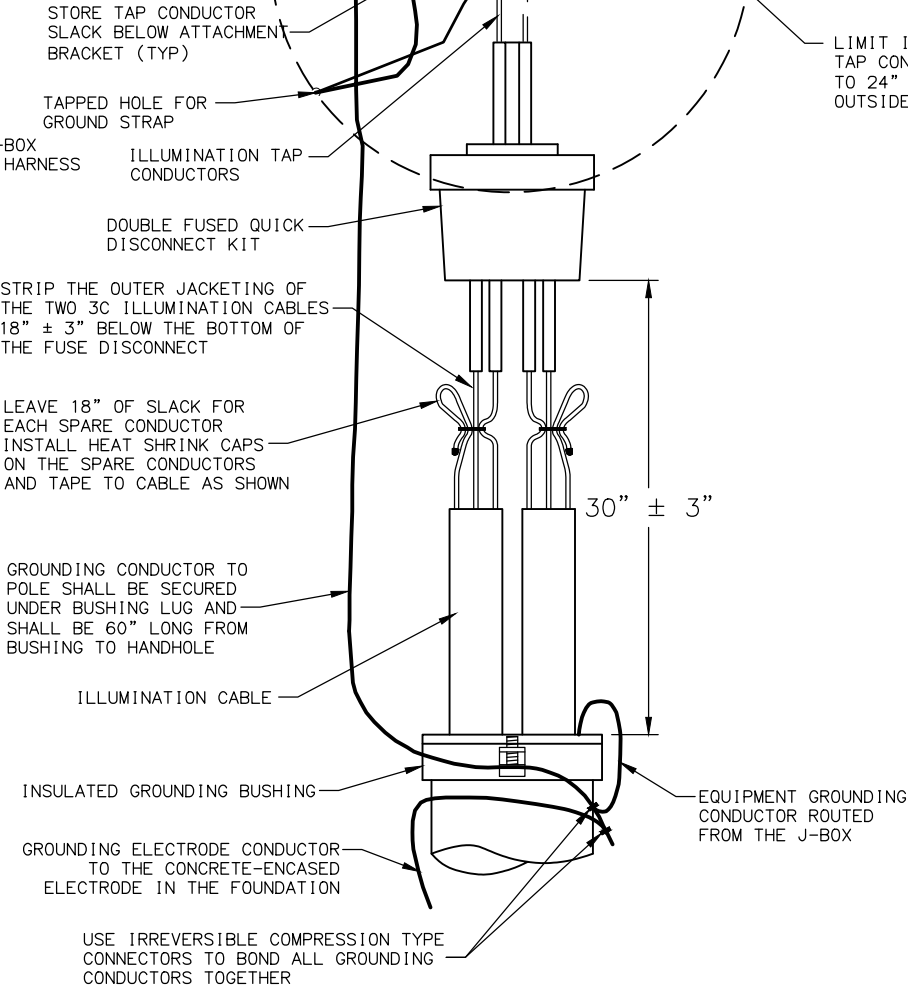
- NOTES:**
- APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
 - LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
 - MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING ELECTRODE CONDUCTOR TO THE CONCRETE-ENCASED ELECTRODE IN THE FOUNDATION SHALL BE #4 AWG.
 - USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
 - WHEN PLANS INDICATE TWO FIXTURES ARE TO BE INSTALLED ON A SINGLE POLE, INSTALL A SECOND DOUBLE FUSED QUICK DISCONNECT KIT. USE TWO 12" (MAX.) JUMPER CABLES INSTALLED ON THE LINE SIDE OF THE FUSES AND SIZE THE JUMPER CABLES TO MATCH THE CABLES ENTERING THE FOUNDATION. EACH FIXTURE SHALL BE POWERED THROUGH A DEDICATED DOUBLE FUSED QUICK DISCONNECT KIT.
 - CONDUCTOR BENDS MUST BE MADE SO AS NOT TO DAMAGE THE CABLE. DO NOT BEND BEYOND THE CABLE'S MINIMUM BEND RADIUS. USE 3.5" MINIMUM BEND RADIUS FOR 3C8 & 3C6 TYPE TC NON-SHEATHED CABLES.



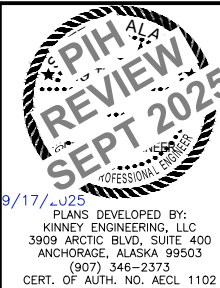
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



GROUNDING CONDUCTOR BONDING CONNECTIONS



DETAIL B



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES**
**PIPE PILE FOUNDATION POLE
WIRING AND GROUNDING DETAILS**

DRAWING LOCATION

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DESIGNED BY

CHECKED BY

DRAFTED BY

DATE

9/17/2025 2:07 PM

SCALE

1" = 1'

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL9	HL24

NOTE TO REVIEWER:

SUMMARY TO BE PROVIDED AT PS&E.

JUNCTION BOX SCHEDULE			
J-BOX	STATION	OFFSET	TYPE

PIH

ALASKA

REVIEW

SEPT 2025

PROFESSIONAL ENGINEER

9/17/2025

PLANS DEVELOPED BY:
KINNEY ENGINEERING, LLC
3909 ARCTIC BLVD, SUITE 400
ANCHORAGE, ALASKA 99503
(907) 346-2373
CERT. OF AUTH. NO. AECL 1102

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES

JUNCTION BOX SUMMARY

DESIGNED BY
CHECKED BY
DRAFTED BY

SCALE
1" = 1'

DATE
9/17/2025 2:07 PM

TIME

DRAWING LOCATION
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL11	HL24

NOTE TO REVIEWER:

CALCULATIONS TO BE PROVIDED AT PS&E.

VOLTAGE DROP CALCULATION – LC "A"							
1-PH, 2W CONFIGURATION, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C							
CKT#	CONDUCTOR SIZE (AWG)	LENGTH	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	%VD
				0.90			
				0.90			
				0.90			
				0.90			

SHORT CIRCUIT CALCULATION – LC "A", PANEL A	
TRANSFORMER RATING	15KVA
VOLTAGE	
TRANSFORMER IMPEDANCE	1.0%
AVAILABLE SHORT CIRCUIT CURRENT AT TRANSFORMER PRIMARY	
FEEDER CONDUCTOR LENGTH	0’
FEEDER CONDUCTOR SIZE	X AWG COPPER
CONDUIT	NONE
MAXIMUM FAULT CURRENT, L-N	
DATE CALCULATED	

SHORT CIRCUIT CALCULATION – LC "B", PANEL A	
TRANSFORMER RATING	15KVA
VOLTAGE	
TRANSFORMER IMPEDANCE	1.0%
AVAILABLE SHORT CIRCUIT CURRENT AT TRANSFORMER PRIMARY	
FEEDER CONDUCTOR LENGTH	0’
FEEDER CONDUCTOR SIZE	X AWG COPPER
CONDUIT	NONE
MAXIMUM FAULT CURRENT, L-N	
DATE CALCULATED	

SHORT CIRCUIT CALCULATION – LC "C", PANEL A	
TRANSFORMER RATING	15KVA
VOLTAGE	
TRANSFORMER IMPEDANCE	1.0%
AVAILABLE SHORT CIRCUIT CURRENT AT TRANSFORMER PRIMARY	
FEEDER CONDUCTOR LENGTH	0’
FEEDER CONDUCTOR SIZE	X AWG COPPER
CONDUIT	NONE
MAXIMUM FAULT CURRENT, L-N	
DATE CALCULATED	

VOLTAGE DROP CALCULATION – LC "B"							
1-PH, 2W CONFIGURATION, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C							
CKT#	CONDUCTOR SIZE (AWG)	LENGTH	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	%VD
				0.90			
				0.90			
				0.90			
				0.90			

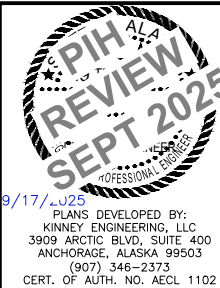
ARC FLASH CALCULATION – LC "A", PANEL A	
INCIDENT ENERGY	0.35 CAL/CM ²
ARC-FLASH BOUNDARY	19"
WORKING DISTANCE	18"
INSULATING GLOVES CLASS	00
NOMINAL SYSTEM VOLTAGE	
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATION DATE	

ARC FLASH CALCULATION – LC "B", PANEL A	
INCIDENT ENERGY	0.35 CAL/CM ²
ARC-FLASH BOUNDARY	19"
WORKING DISTANCE	18"
INSULATING GLOVES CLASS	00
NOMINAL SYSTEM VOLTAGE	
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATION DATE	

ARC FLASH CALCULATION – LC "C", PANEL A	
INCIDENT ENERGY	0.35 CAL/CM ²
ARC-FLASH BOUNDARY	19"
WORKING DISTANCE	18"
INSULATING GLOVES CLASS	00
NOMINAL SYSTEM VOLTAGE	
LIMITED APPROACH BOUNDARY	42"
RESTRICTED APPROACH BOUNDARY	12"
CALCULATION DATE	

VOLTAGE DROP CALCULATION – LC "C"							
1-PH, 2W CONFIGURATION, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C							
CKT#	CONDUCTOR SIZE (AWG)	LENGTH	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	%VD
				0.90			
				0.90			
				0.90			
				0.90			

- NOTES:
- ALL LOAD CENTERS
- CONTRACTOR TO PROVIDE AS-BUILD REDLINES OF THESE PANELS TO THE PROJECT ENGINEER.
 - SHORT CIRCUIT AND ARC FLASH CALCULATIONS ARE ACCURATE WHEN FIELD CONDITIONS MATCH THE INFORMATION IN THE TABLES. NOTIFY THE PROJECT ENGINEER FOR REVISED CALCULATIONS IF CONDITIONS DIFFER.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES

ARC FLASH AND VOLTAGE DROP
CALCS

NEWLOAD CENTER SUMMARY

LOAD CENTER: "LC A"TYPE: 1

UTILITY SOURCE: 25 KVA PAD MOUNT XFMR

MEA METER #UNKNOWN

LOCATION: SOLID WASTE TRANSFER SITE, NW CORNER OF ROUNDABOUT.

SERVICE: 50 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE

REMARKS:

MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT

INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
SURGE ARRESTOR	480	2		
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE
STEP DOWN TRANSFORMER				

PANEL 'A' SCHEDULE 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO

INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LNE A B	CKT NO.	DESCRIPTION	CKT. BKR.	KVA
1	SPARE	20A/1P	0.0	0.5	2	AUTOMATIC TRAFFIC RECORDER	15A/1P	0.5
3	SPACE		0.0	0.0	4	SPACE		0.0
5	SPACE		0.0	4.8	6	EXISTING WEIGH STATION WEIGH IN MOTION 5KVA STEPDOWN XFMR	20A/2P	4.8
7	SPACE		0.0	4.8	8			4.8
9	SPACE		0.0	0.0	10	SPACE		0.0
11	SPACE		0.0	0.0	12	SPACE		0.0
13	SPACE		0.0	0.0	14	SPACE		0.0
15	SPACE		0.0	0.0	16	SPACE		0.0
17			0.0	0.0	18	SPACE		0.0

NOTES: LUM = LUMINAIRE

* X

** X

*** X

SERVICE LOAD:

CONNECTED: 5.3 4.8 10.1 KVA 21 AMP

DEMAND: 6.625 6 12.6 KVA 26 AMP

NEWLOAD CENTER SUMMARY

LOAD CENTER: "LC B"TYPE: 1

UTILITY SOURCE: 25 KVA PAD MOUNT XFMR

MEA METER #UNKNOWN

LOCATION: NEXT TO LOAD CENTER "A"

SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE

REMARKS:

MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER: 100 AMP, 2-POLE, 480/240 VOLT

INTERRUPTING RATING: 14,000 AMP

AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED

DESCRIPTION	VOLT	POLES	AMP	REMARKS
PHOTOELECTRIC CONTROL	240			
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)	240	1	10	
LIGHTING CONTACTOR	480	10	30	MAGNETICALLY LATCHED TYPE

PANEL 'A' SCHEDULE 480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO

INTERRUPTING RATING: 14,000 AMP

CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LNE A B	CKT NO.	DESCRIPTION	CKT. BKR.	KVA
1	LIGHTING CONTROL	15A/1P	0.1	3.5	2	HIGH TOWER 1 SOUTH OF BRIDGE	20A/2P	3.5
3	COBRAHEADS SOUTH TO RAMP 9 LUMS	20A/2P	1.2	4.7	4			3.5
5			1.2	4.7	6	HIGH TOWER 2 OVERPASS	20A/2P	3.5
7	COBRAHEADS SOUTH TO RAMP 8 LUMS	20A/2P	1.1	4.6	8			3.5
9			1.1	4.4	10	HIGH TOWER 3	20A/2P	3.5
11	NORTH OF CROSSWALKS & SPLITTER ISLAND (3),	20A/2P	0.9	4.4	12			3.5
13	ISLAND & PAST GUARDRAIL (4), 7 LUMS TOTAL		0.9	4.4	14	HIGH TOWER 4	20A/2P	3.5
15	SPARE	20A/2P	0.0	3.5	16			3.5
17			0.0	0.0	18	SPARE	15A/1P	0.0

NOTES: LUM = LUMINAIRE

* X

** X

*** X

SERVICE LOAD:

CONNECTED: 17.2 17.2 34.4 KVA 72 AMP

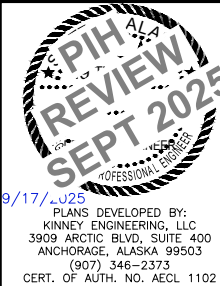
DEMAND: 21.513 21.45 43.0 KVA 90 AMP

NOTES:

ALL LOAD CENTERS

1. CONTRACTOR TO PROVIDE AS-BUILT REDLINES OF THESE PANELS TO THE PROJECT ENGINEER.

2. SHORT CIRCUIT AND ARC FLASH CALCULATIONS ARE ACCURATE WHEN FIELD CONDITIONS MATCH THE INFORMATION IN THE TABLES. NOTIFY THE PROJECT ENGINEER FOR REVISED CALCULATIONS IF CONDITIONS DIFFER.



STATE OF ALASKA
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AND PUBLIC FACILITIES

GLENN HIGHWAY & HILAND ROAD
IMPROVEMENT INTERCHANGE
DESIGN SERVICES

LOAD CENTER SUMMARY

NEW				LOAD CENTER SUMMARY											
LOAD CENTER: "LC C" TYPE: 1				UTILITY SOURCE: 25 KVA PAD MOUNT XFMR								MEA METER #1709 (JS7 1237)			
LOCATION: BEHIND PED RAIL EAST OF PARKING LOT				SERVICE: 100 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE											
REMARKS:				MAX. AVAILABLE FAULT CURRENT: x AMP											
MAIN BREAKER:				100 AMP, 2-POLE, 480/240 VOLT								INTERRUPTING RATING: 14,000 AMP			
				AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED											
DESCRIPTION				VOLT	POLES	AMP	REMARKS								
PHOTOELECTRIC CONTROL				240											
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)				240	1	10									
LIGHTING CONTACTOR				480	10	30	MAGNETICALLY LATCHED TYPE								
PANEL 'A' SCHEDULE				480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO								INTERRUPTING RATING: 14,000 AMP			
CKT. NO.	DESCRIPTION			CKT. BKR.	KVA	KVA / LNE		CKT. NO.	DESCRIPTION			CKT. BKR.	KVA		
1	LIGHTING CONTROL			15A/1P	0.1	1.4		2	NEW PARKING LOT LIGHTING 10 LUMS			20A/2P	1.4		
3	SPACE				0.0		1.4	4					1.4		
5	CROSSWALKS 5 LUMS			20A/2P	0.7	1.1		6	EAGLE RIVER LOOP ROAD NORTH 3 LUMS			20A/2P	0.4		
7					0.7		1.1	8					0.4		
9	ISLAND AND GUARDRAIL 4 LUMS			20A/2P	0.5	1.1		10	EAGLE RIVER LOOP ROAD SOUTH 4 LUMS			20A/2P	0.5		
11					0.5		1.1	12					0.5		
13	NEW COBRAHEADS (3),			20A/2P	1.4	1.4		14	SPARE			20A/2P	0.0		
15	EXISTING OFFSET FIXTURES (7), 10 LUMS TOTAL				1.4		1.4	16					0.0		
17	SPACE				0.0	0.0		18	SPACE				0.0		
				SERVICE LOAD:		CONNECTED: 4.9 4.9		9.8	KVA		20	AMP			
						DEMAND: 6.1375 6.075		12.2	KVA		25	AMP			
NOTES: LUM = LUMINAIRE															
* X															
** X															
*** X															

EXISTING				LOAD CENTER SUMMARY												
LOAD CENTER: "LC H" TYPE: 1A				UTILITY SOURCE: 27.5 KVA PAD MOUNT XFMR								MEA METER #1200 (JS7 1147)				
LOCATION: ER LOOP & HILAND, NE CORNER OF INT.				SERVICE: 150 AMP, 480/240 VOLT, 1-PHASE, 3-WIRE												
REMARKS: XFMR IN CABINET SIDEMOUNT				MAX. AVAILABLE FAULT CURRENT: x AMP												
MAIN BREAKERS:				(A) 50 AMP, 2-POLE, 480/240 VOLT; (B) 150 AMP, 2-POLE, 480/240 VOLT								INTERRUPTING RATING: 14,000 AMP				
AUXILIARY EQUIPMENT SUMMARY (D) = REMOVE, (N) = ADD NEW, (R) = REPLACE/REPAIR AS NOTED																
DESCRIPTION				VOLT	POLES	AMP	REMARKS									
SURGE ARRESTOR							SURGE ARRESTOR NOT SURVEYED									
PHOTOELECTRIC CONTROL				240			CONDULET STUBS OUT ON BACK OF EXISTING LOAD CENTER									
SELECTOR SWITCH, ON-OFF-AUTO (3-POS)				240	1	10	ON PANEL "B"									
LIGHTING CONTACTOR				480	10	30	MAGNETICALLY LATCHED TYPE, CONTROL ON PANEL "B"									
STEP DOWN TRANSFORMER							NOT SURVEYED, LIKELY FEEDS AUTOMATED TRAFFIC RECORDER									
PANEL 'A' SCHEDULE				480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO								INTERRUPTING RATING: 14,000 AMP				
CKT. NO.	DESCRIPTION			CKT. BKR.	KVA	KVA / LNE		CKT. NO.	DESCRIPTION			CKT. BKR.	KVA			
1	AUTOMATIC TRAFFIC RECORDER			15A/1P	0.5	0.5		2	SPARE			20A/1P	0.0			
3	SPACE				0.0		0.0	4	SPACE				0.0			
5	SPACE				0.0	4.7		6	EXISTING ELECTROLIERS: HILAND ROAD			15A/2P	4.7			
7	SPACE				0.0		4.7	8					4.7			
9	SPACE				0.0		0.0	10	SPACE				0.0			
11	SPACE				0.0		0.0	12	SPACE				0.0			
13	SPACE				0.0		0.0	14	SPACE				0.0			
15	SPACE				0.0		0.0	16	SPACE				0.0			
NOTES: LUM = LUMINAIRE				SERVICE LOAD:		CONNECTED: 5.2 4.7		9.9 KVA		41 AMP						
						DEMAND: 6.4375 5.875		12.3 KVA		51 AMP						
* X																
** X																
*** X																

PANEL 'B' SCHEDULE				480/240 VOLT, 1-PHASE, 3-WIRE, 100A MLO				INTERRUPTING RATING:				14,000 AMP	
CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LNE		CKT. NO.	DESCRIPTION	CKT. BKR.	KVA				
1	L2-L8	15A/2P	3.3	3.3		2	SPACE					0.0	
3			3.3		3.3	4	SPACE					0.0	
5	(R) SPACE DISCONNECT 15A/2P BREAKER SERVING L11-L25		0.0	7.0		6	(R)* L12-L26, VERIFY LOAD (~14.5A) AND FIELD LOCATE NORTH	15A/2P	7.0				
7	(R) SPACE DISCONNECT 15A/2P BREAKER SERVING L11-L25		0.0		7.0	8	(R)* EAGLE RIVER LUMINAIRES ON 6,8 CKT SCHEDULED FOR SALVAGE					7.0	
9	L144-L148	15A/2P	2.3	5.1		10	F10-F15	15A/2P	2.8				
11			2.3		5.1	12			2.8				
13	SPACE			0.0	0.0		14	SPACE					0.0
		SERVICE LOAD:		CONNECTED: 15.4 15.4		30.7 KVA		128 AMP					
NOTES:				DEMAND: 19.2 19.2		38.4 KVA		160 AMP					
*PROVIDE NEW SPARE 20A/2P BREAKER IN CABINET; THEN, INSTALL ON 6,8 IF EXISTING NIGHTTIME LOAD IS BETWEEN 12A AND 16A.													

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16055/CFHWY00917	2025	HL14	HL24

HIGHMAST LUMINAIRE PERFORMANCE CRITERIA FOR GLENN HIGHWAY AND OVERPASS	
ROADWAY CHARACTERISTICS	
TRAFFIC FLOW	2 WAY
LANE WIDTH	12 FEET
NO. OF LANES OVERPASS	1 EASTBOUND, 2 WESTBOUND
NO. OF LANES GLENN HWY	3 EACH DIRECTION
MEDIAN WIDTH GLENN HWY	36 FEET TO 43 FEET
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-14
ROADWAY LAMP CHARACTERISTICS	
IES DISTRIBUTION	TYPE IV
INITIAL LUMENS	70,000 MIN
WATTAGE	420W-580W
LED LAMP CHARACTERISTICS	
COLOR TEMPERATURE	4000K
CRI	70 MIN
VOLTAGE	480V
POWER FACTOR	> 0.9
LIGHT LOSS FACTOR	0.85
POLE CHARACTERISTICS	
MOUNTING HEIGHT OVERPASS	154 FEET
MOUNTING HEIGHT GLENN HWY	175 FEET
TOWER SETBACK FROM GLENN HWY SOUTHBOUND FOGLINE	45 FEET TO 55 FEET
ARM LENGTH	N/A
EXISTING SPACING	500 FEET TO 700 FEET
GLENN HIGHWAY LUMINANCE CRITERIA	
ROADWAY CLASSIFICATION	FREEWAY CLASS B
ROADWAY LUMINANCE, AVG	0.40 CD/SQ. M MIN
ROADWAY LUMINANCE, MIN	0.3 CD/SQ. M
UNIFORMITY RATIO AVG/MIN	3.5 MAX
UNIFORMITY RATIO MAX/MIN	6.0 MAX
VEILING RATIO	0.3 MAX
OVERPASS ILLUMINANCE CRITERIA	
ROADWAY CLASSIFICATION	MAJOR STREET, LOW PEDS
ROADWAY ILLUMINANCE, AVG	0.40 CD/SQ. M -> 0.6 FC
ROADWAY ILLUMINANCE, MIN	0.2 FC
UNIFORMITY RATIO AVG/MIN	3.5 MAX
UNIFORMITY RATIO MAX/MIN	6.0 MAX

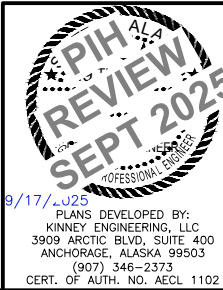
LOW MOUNT LUMINAIRE PERFORMANCE CRITERIA FOR GLENN HIGHWAY ENTRANCE RAMPS	
ROADWAY CHARACTERISTICS	
TRAFFIC FLOW	1 WAY
LANE WIDTH	12 FEET
NO. OF LANES	2 TO 4 IN ONE DIRECTION
MEDIAN WIDTH	N/A
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-14
ROADWAY CLASSIFICATION	FREEWAY CLASS B
ROADWAY LAMP CHARACTERISTICS	
IES DISTRIBUTION	TYPE II
INITIAL LUMENS	15,000 MIN
WATTAGE	105W-135W
LED LAMP CHARACTERISTICS	
COLOR TEMPERATURE	4000K
CRI	70 MIN
VOLTAGE	480V
POWER FACTOR	> 0.9
LIGHT LOSS FACTOR	0.85
POLE CHARACTERISTICS	
MOUNTING HEIGHT	45 FEET
POLE SETBACK GUARDRAIL	5 FEET
ARM LENGTH	12 FEET
SPACING	245 FEET
LUMINANCE CRITERIA	
ROADWAY LUMINANCE, AVG	0.40 CD/SQ. M MIN
ROADWAY LUMINANCE, MIN	0.3 CD/SQ. M
UNIFORMITY RATIO AVG/MIN	3.5 MAX
UNIFORMITY RATIO MAX/MIN	6.0 MAX
VEILING RATIO	0.3 MAX

LOW MOUNT LUMINAIRE PERFORMANCE CRITERIA FOR ROUNDABOUTS	
ROADWAY CHARACTERISTICS	
TRAFFIC FLOW	2 WAY
LANE WIDTH	12 FEET
NO. OF LANES	1 TO 2 BOTH DIRECTIONS
MEDIAN WIDTH	VARIES
PAVEMENT TYPE	R3
ROADWAY LIGHTING STANDARD	IESNA RP-8-18
ROADWAY CLASSIFICATION	MAJOR/MAJOR, LOW PEDS
ROADWAY LAMP CHARACTERISTICS	
IES DISTRIBUTION ISLANDS	TYPE III
INITIAL LUMENS	15,000 MIN
WATTAGE	105W-135W
IES DISTRIBUTION TYPICAL	TYPE II
INITIAL LUMENS	15,000 MIN
WATTAGE	105W-135W
LED LAMP CHARACTERISTICS	
COLOR TEMPERATURE	4000K
CRI	70 MIN
VOLTAGE	480V
POWER FACTOR	> 0.9
LIGHT LOSS FACTOR	0.85
POLE CHARACTERISTICS	
MOUNTING HEIGHT	<u>35 FEET</u>
POLE SETBACK GUARDRAIL	5 FEET
POLE SETBACK LIP OF CURB	17 FEET
ARM LENGTH	6-, 12-, 22- FEET
SPACING	VARIES
ROUNDABOUTS ILLUMINANCE CRITERIA*	
ROADWAY ILLUMINANCE, AVG	1.7 FC MIN
UNIFORMITY RATIO AVG/MIN	3.0 MAX

*ROADWAY ILLUMINANCE ALSO APPLIES TO ALL CROSSWALK LOCATIONS AT FIVE FEET ABOVE PAVEMENT W/ LIGHT-METER ORIENTED TOWARDS UPSTREAM TRAFFIC PER RP-8-18: SAFE STOPPING DISTANCE ALONG VEHICULAR PATH SHALL BE 152 FEET. CALCULATION AREA FOR HORIZONTAL ILLUMINANCE SHALL CAPTURE 300-FT UPSTREAM OF ALL SPLITTER ISLAND GEOMETRY.

LIGHTING NOTES:

- LUMINAIRES SHALL BE SUITABLE FOR 480V SUPPLY, AND COMPLY WITH SPECIAL PROVISIONS OF SECTION 740-2.18. LUMINAIRES SHALL PROVIDE THE AVERAGE INITIAL LUMINANCE, ILLUMINANCE, UNIFORMITIES, AND VEILING RATIO SPECIFIED IN THE PERFORMANCE CRITERIA SUMMARY. PROVIDE LIGHTING CALCULATIONS USING THE MANUFACTURER'S CURRENT PUBLISHED PHOTOMETRIC DATA IN ACCORDANCE WITH SPECIAL PROVISIONS OF SECTION 740-2.18 FOR ROADWAY LUMINAIRES.
- PRIOR TO INSTALLATION, CONTRACTOR SHALL REQUEST LOCATES FOR EXISTING UNDERGROUND UTILITIES, AND RECEIVE WRITTEN CONFIRMATION THAT ALL FACILITIES HAVE BEEN IDENTIFIED.
- POLE SETBACK FROM GUARDRAIL IS FROM CENTER POLE TO BACK OF POST.
- POLE SETBACK FROM LIP OF CURB IS FROM CENTER OF POLE TO NEAREST EDGES OF ROADWAY ASPHALT.



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CRITERIA

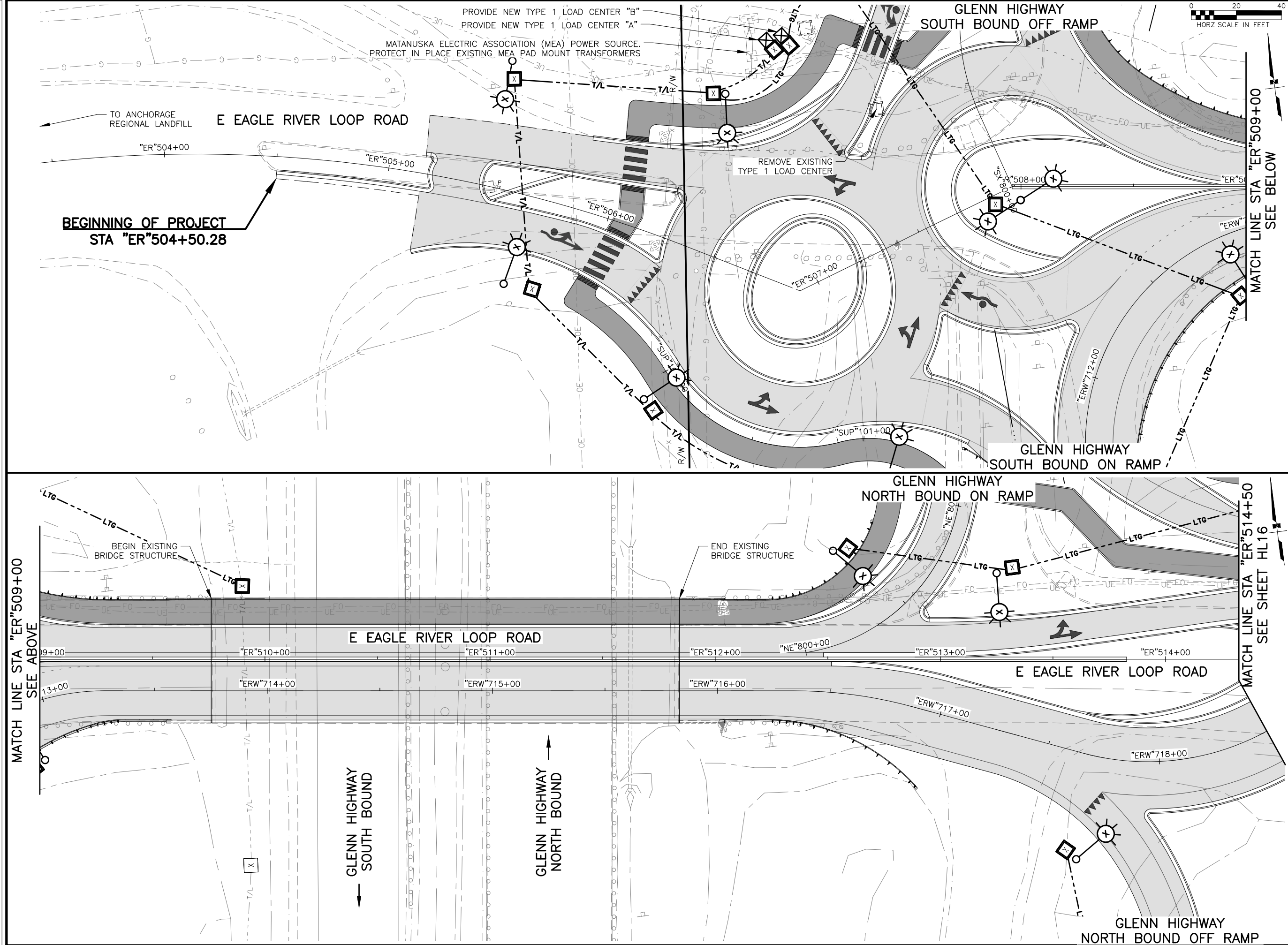
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GLENN HIGHWAY

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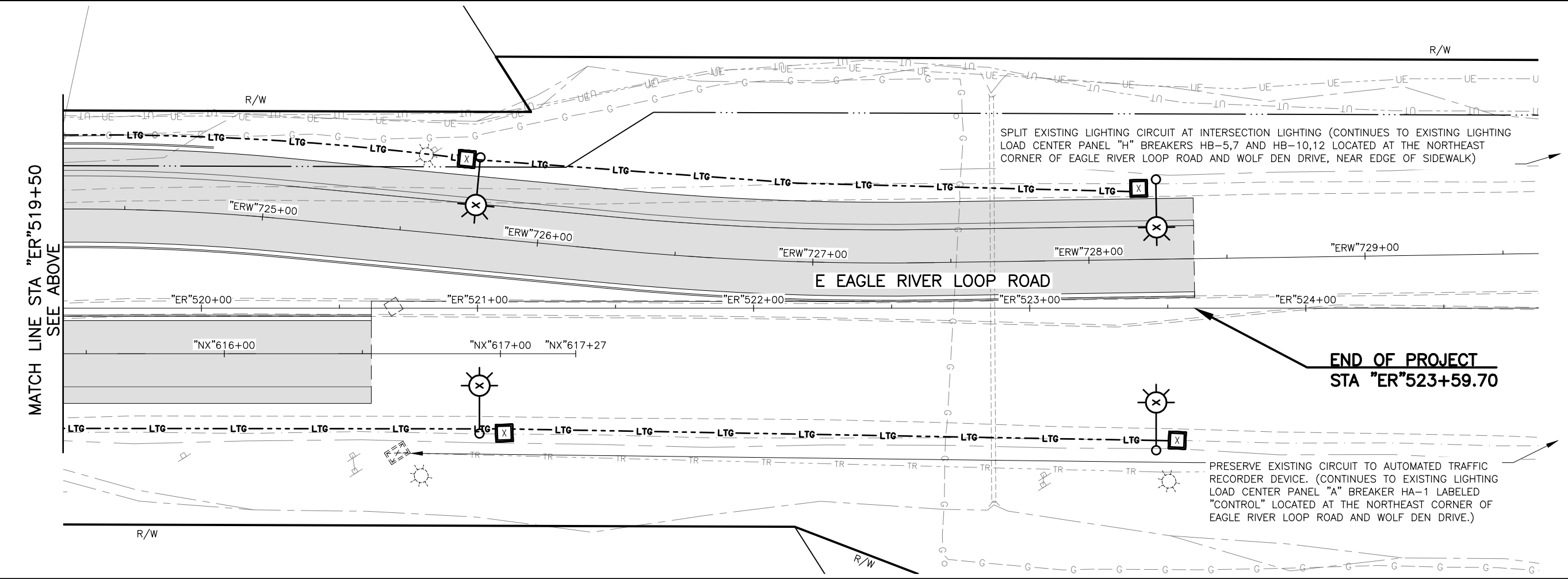
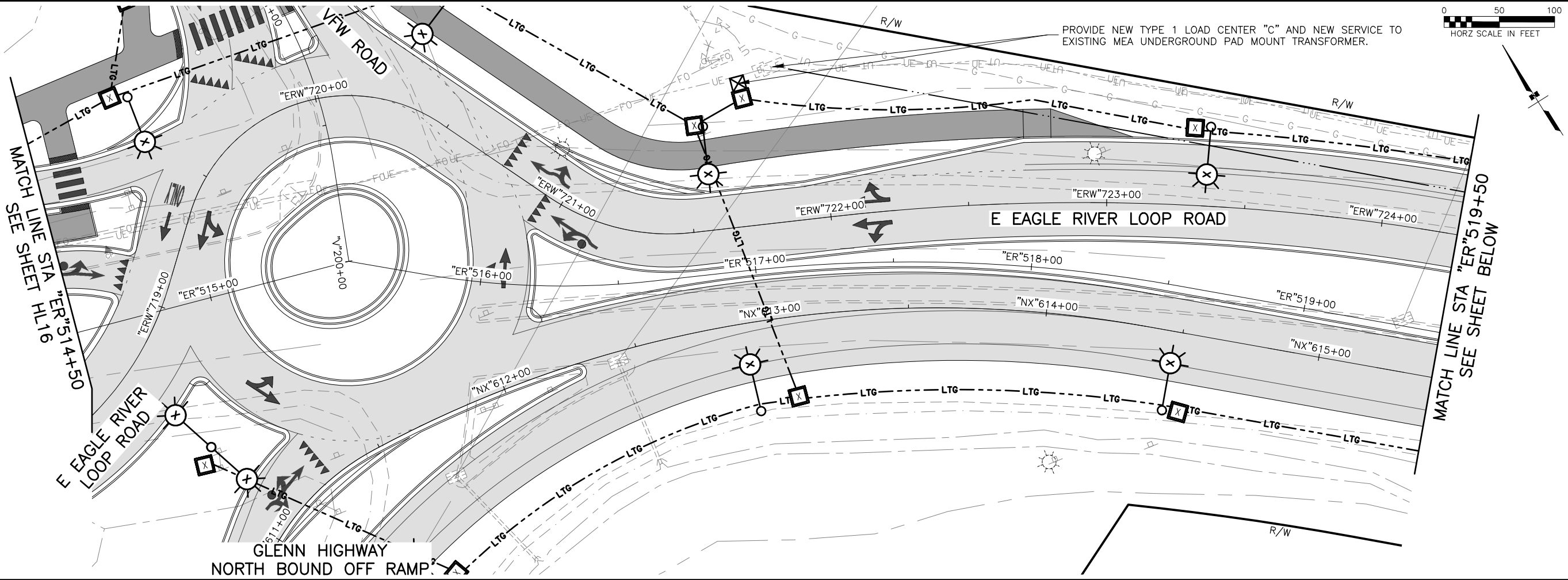
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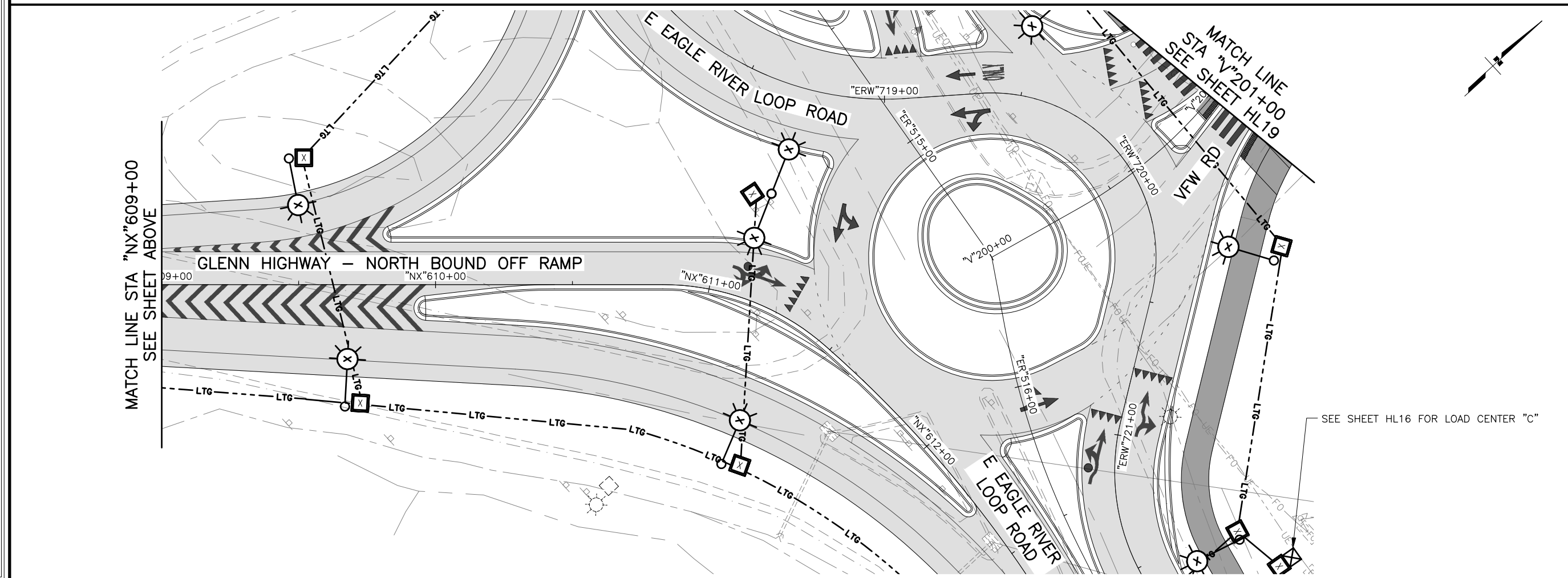
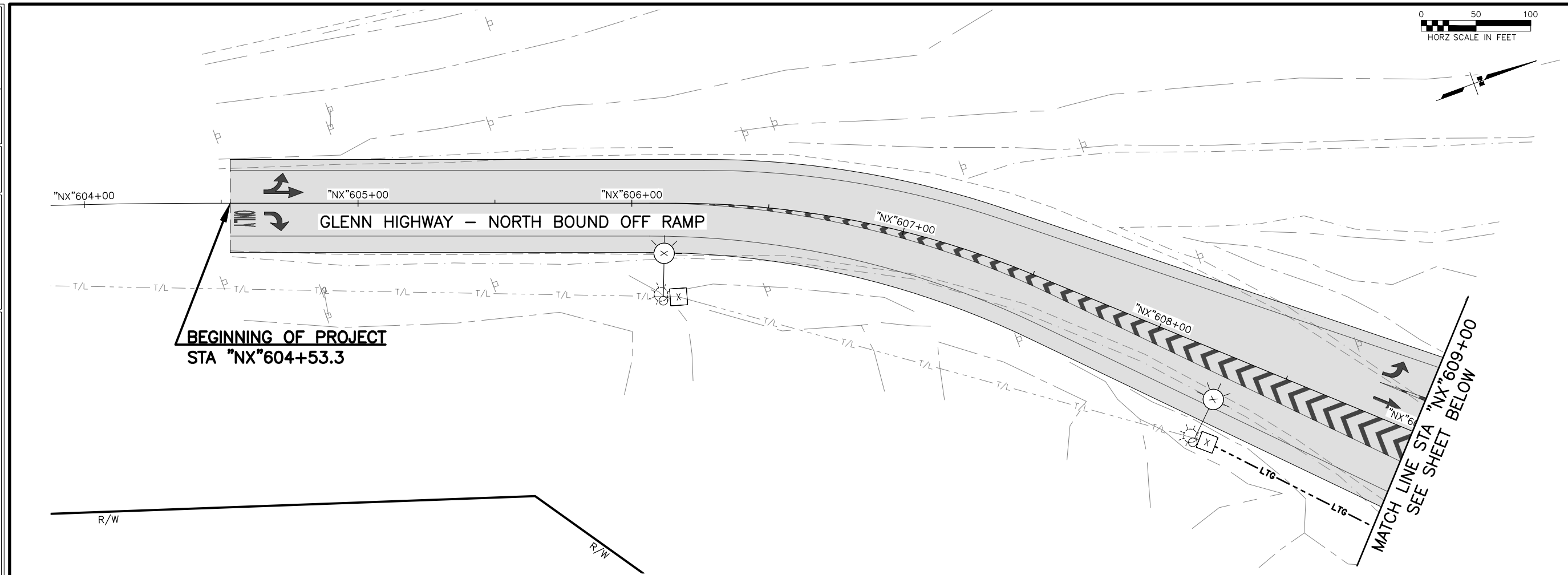
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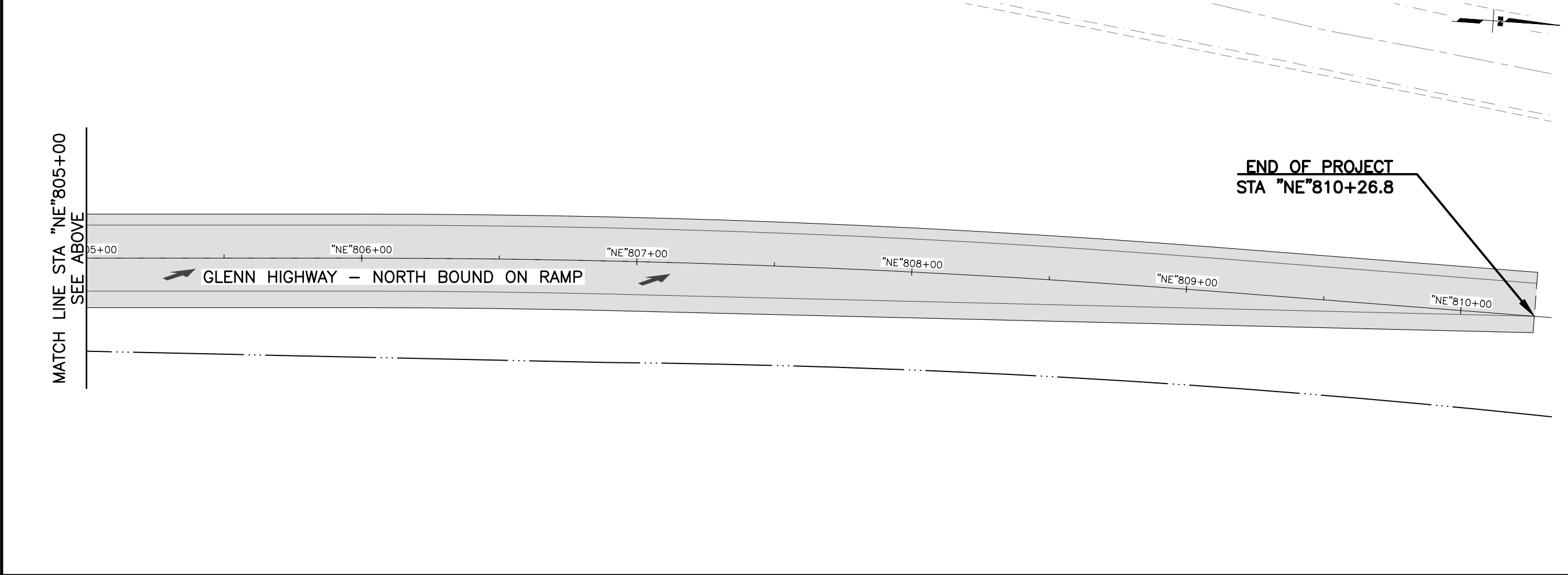
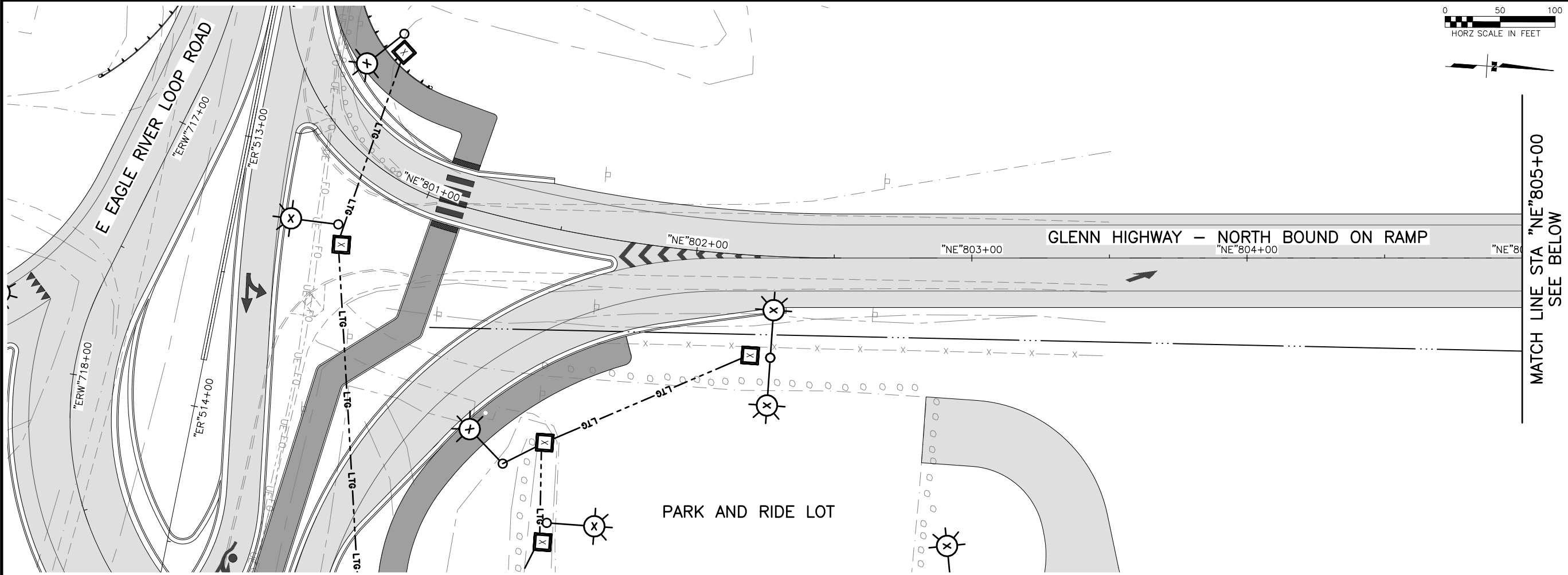
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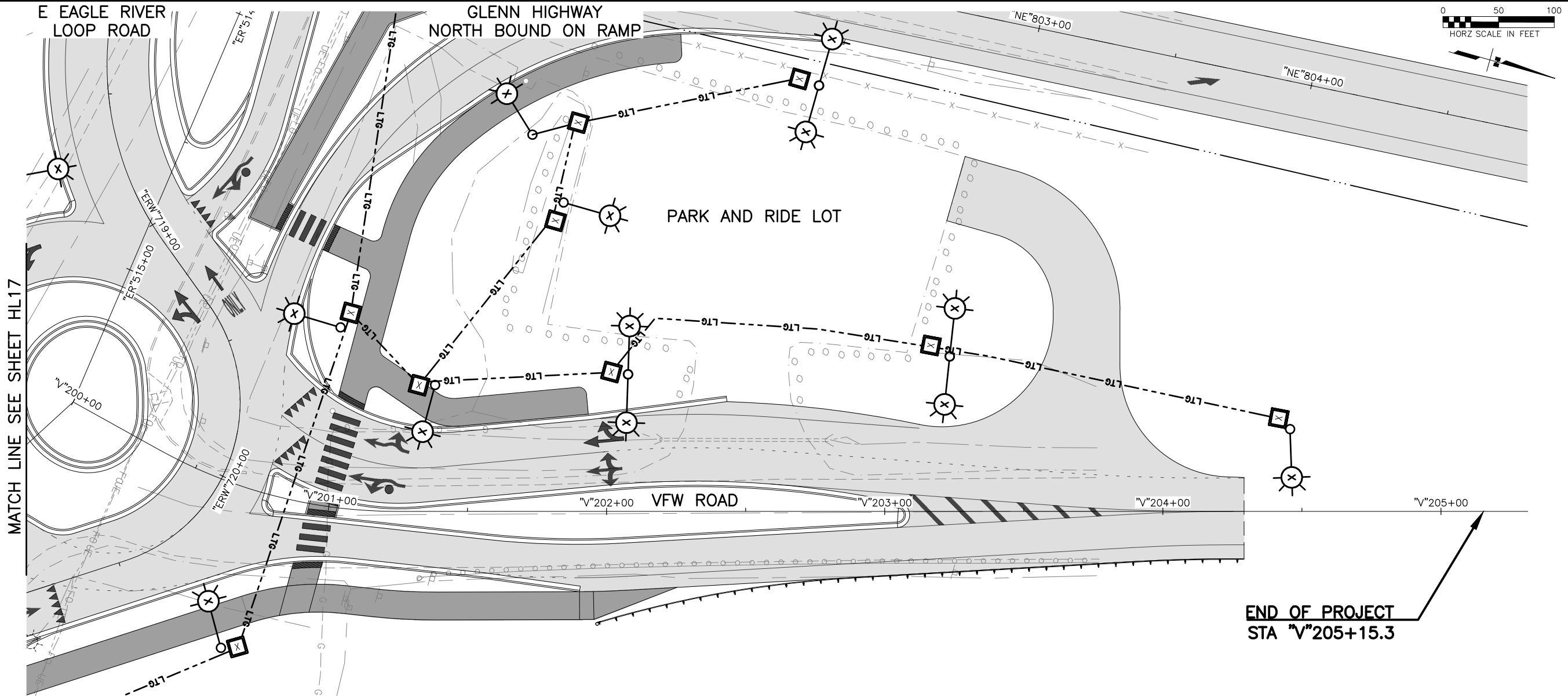
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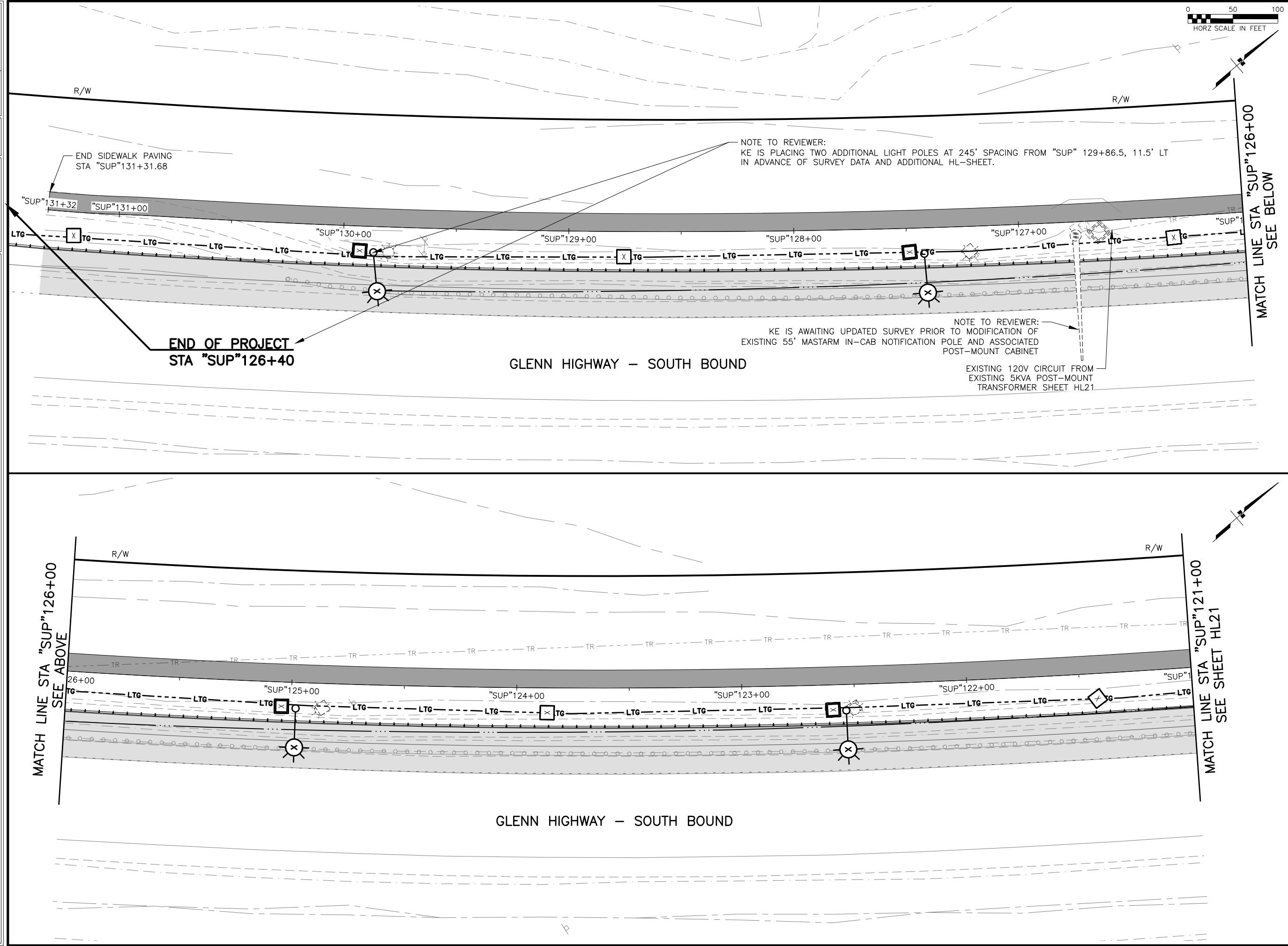
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ALASKA	2025
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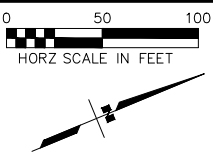
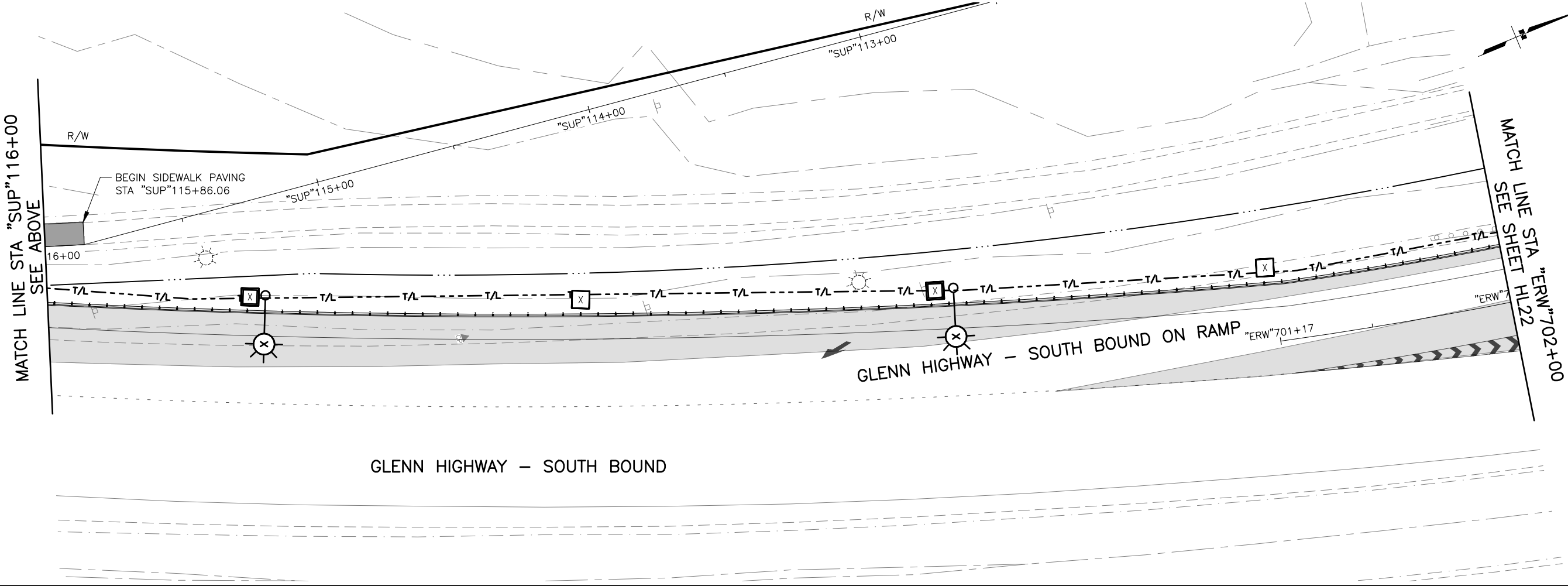
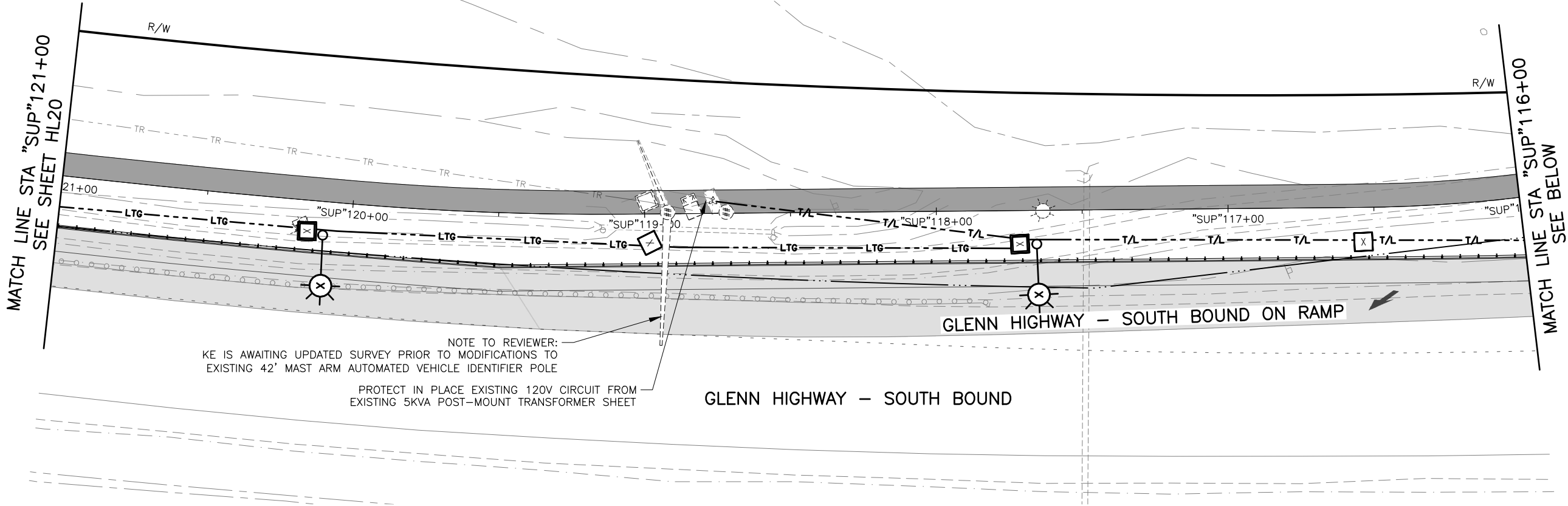
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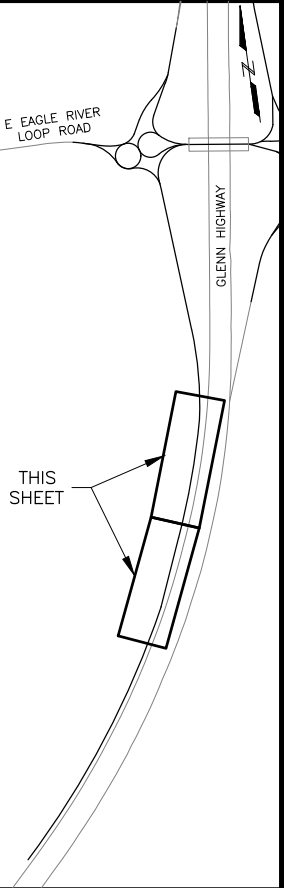
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HL21	HL24
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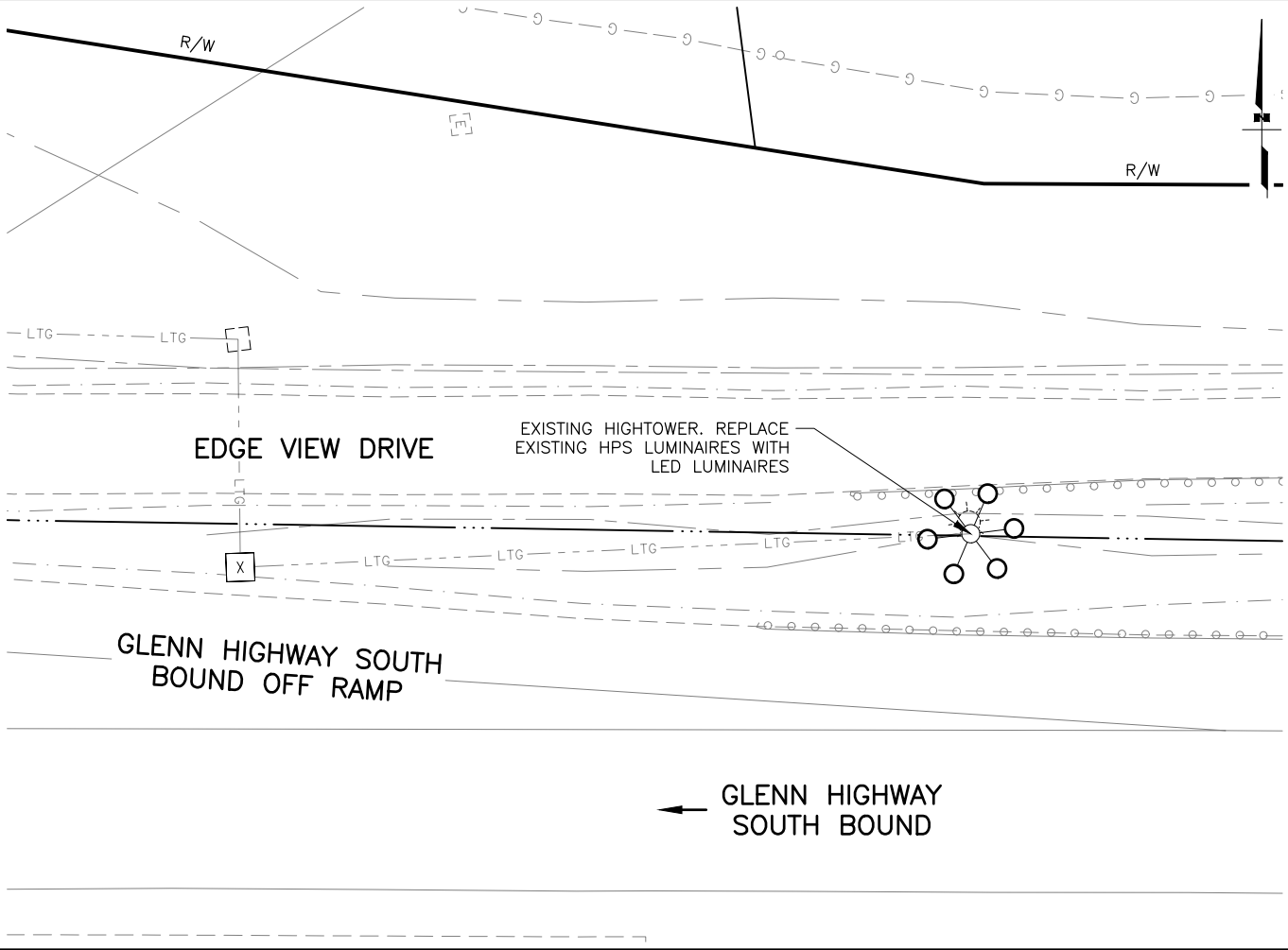
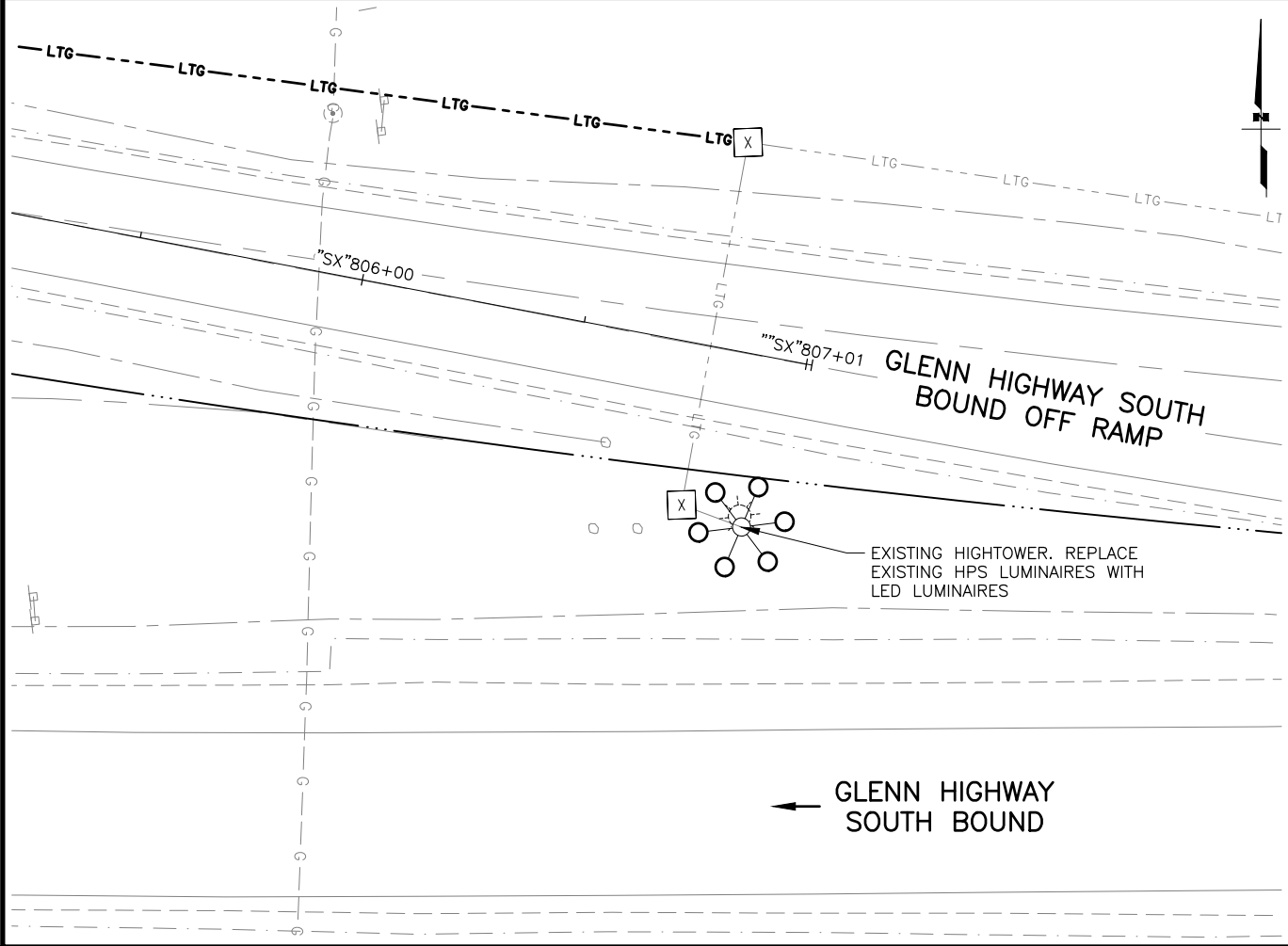
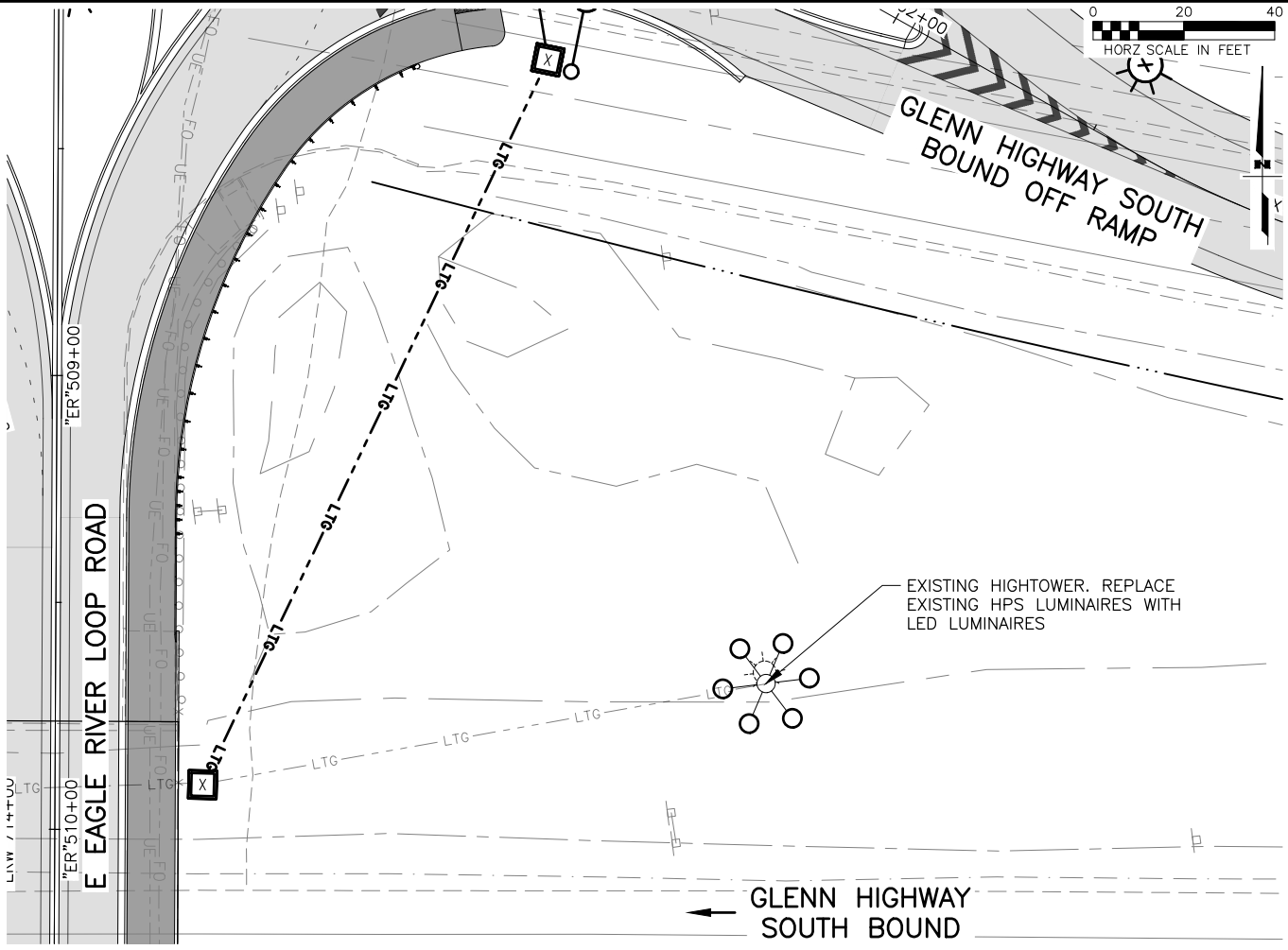
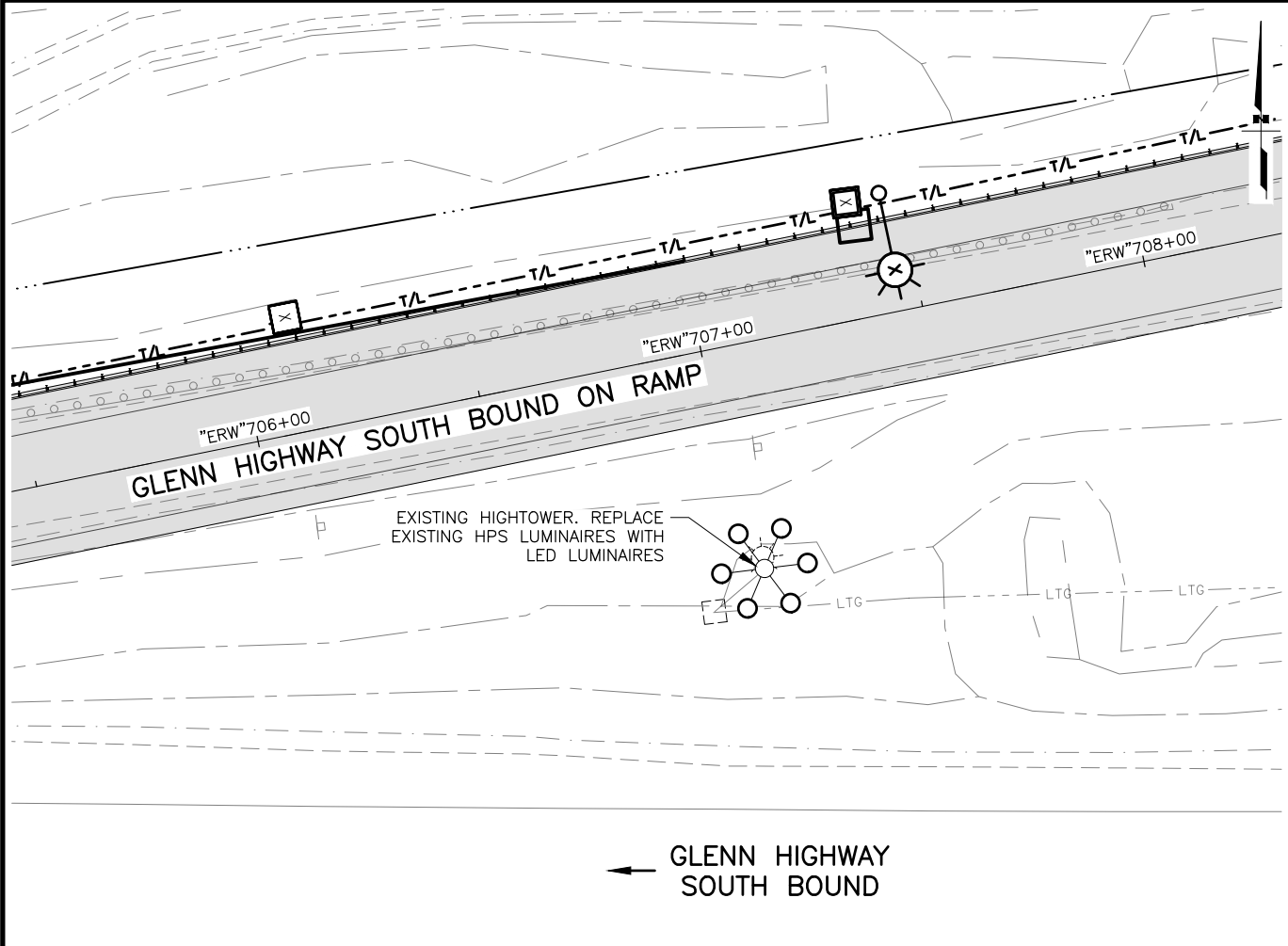
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E EAGLE RIVER LOOP ROAD

GLENN HIGHWAY

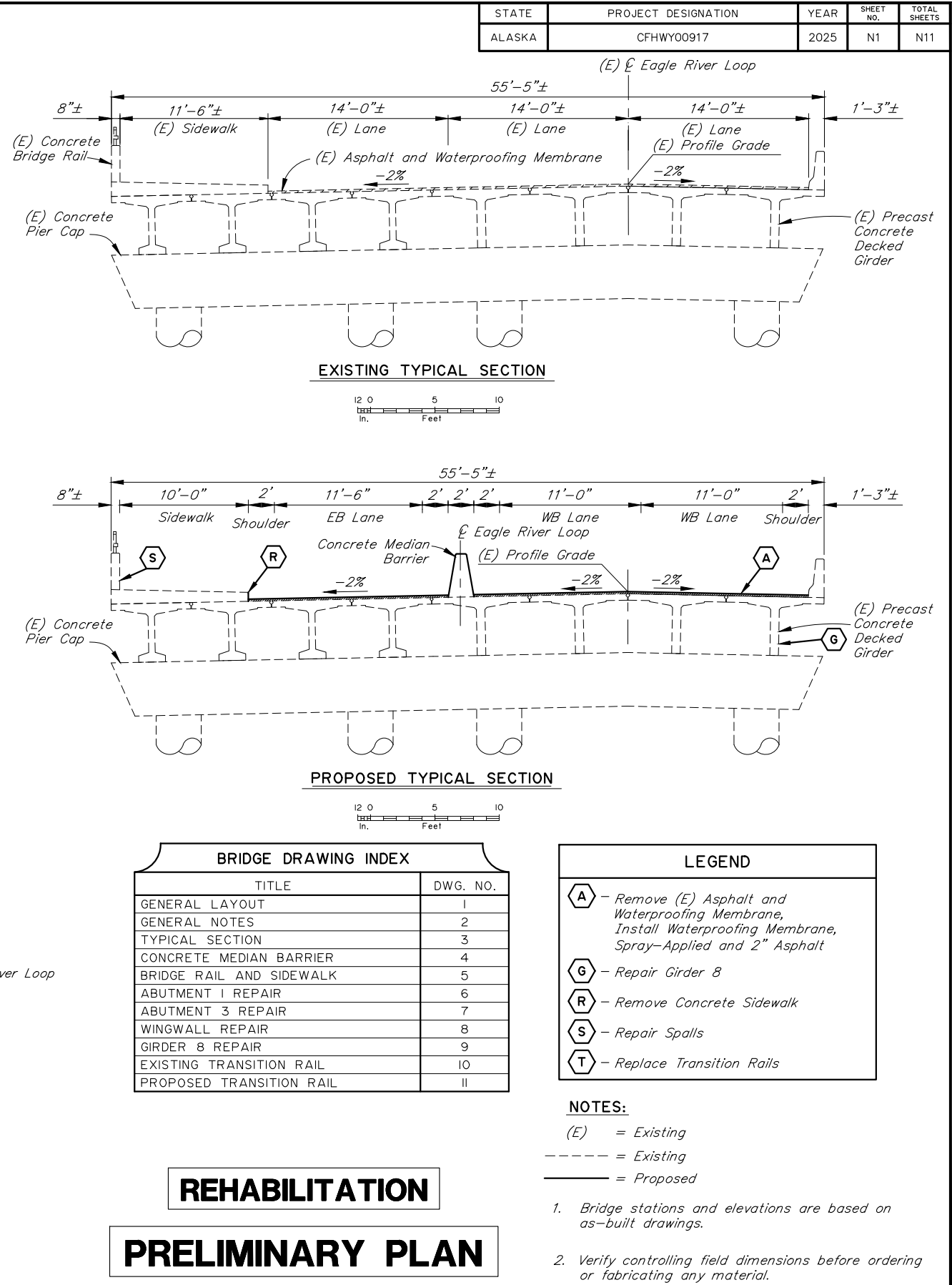
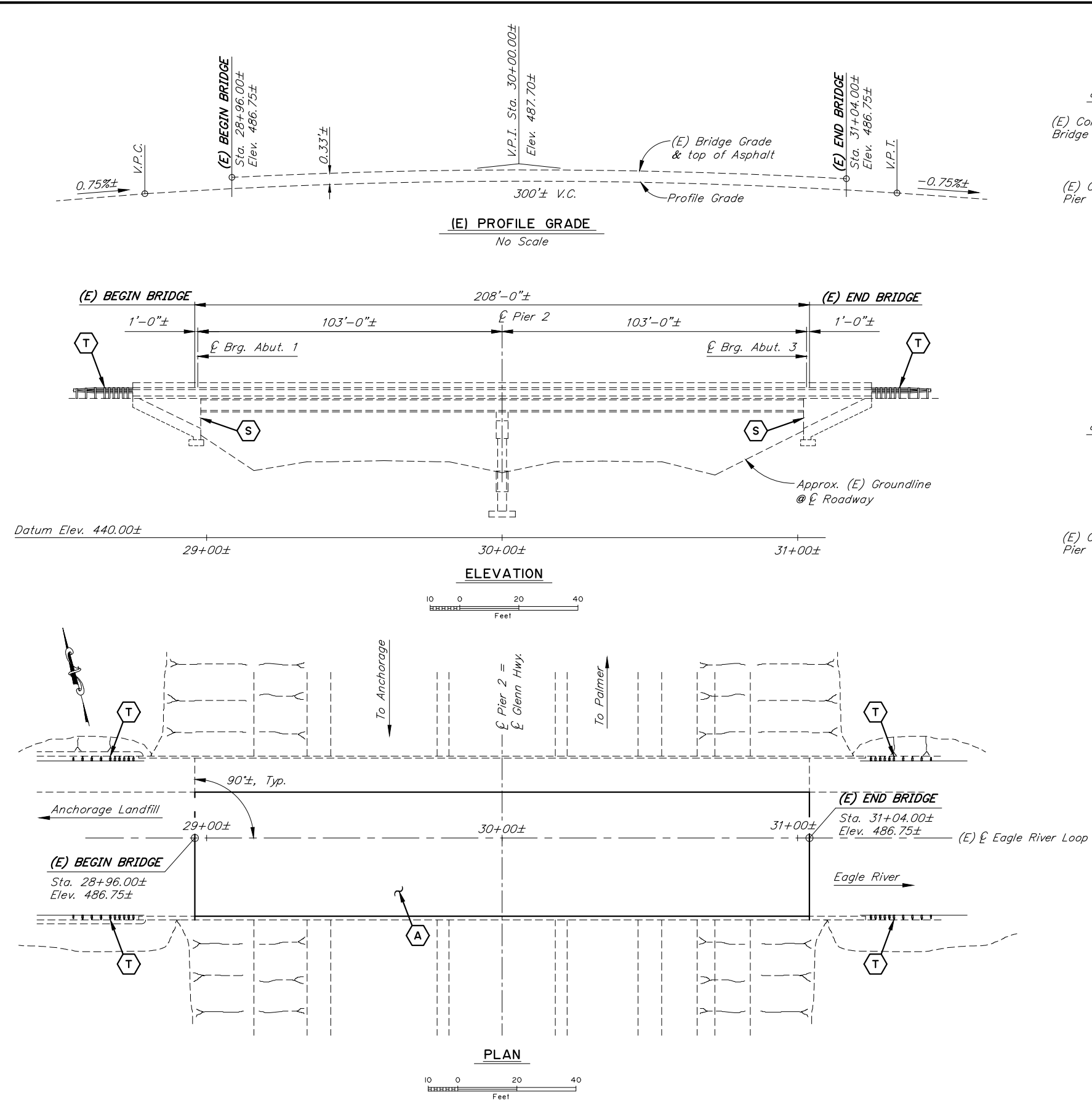
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DESIGNED BY:	Julie Tibor	CHECKED:	Checker	LAYOUT BY:	Julie Tibor	CHECKED BY:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor	SPECIFICATIONS BY:	Julie Tibor	P S & E COMPARED:	Checker
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker	APPROVAL RECOMMENDED BY:	Leslie Daugeherty		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
GENERAL LAYOUT

BRIDGE NO. 1327
DWG. NO. 1

\\\\dot.soa.alaska.gov\\shared\\BRIDGE\\cad\\1327\\1327-2-NOTES Tue, Sep/09/25 09:51am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N2	N11

GENERAL NOTES

DESIGN:..... AASHTO LRFD Bridge Design Specifications, 2024 Edition, with latest interim specifications.

LIVE LOAD:..... See "As-Built"

CONCRETE:.....Class A Concrete unless otherwise noted, f'c = 4,000 psi

REINFORCEMENT:..... ASTM A706, Grade 60, Fy = 60,000 psi
Space reinforcement evenly unless otherwise noted.

Existing stations, elevations and dimensions are based on as-built plans, and those plans may not show existing dimensions and conditions. Where dimensions of the proposed work depend on the existing bridge dimensions, field-verify the controlling dimensions and adjust proposed dimensions of the work to fit existing conditions.

ABBREVIATIONS:

C	= centerline	e.f.	= each face	min.	= minimum
P	= plate	e.w.	= each way	MSE	= mechanically stabilized earth
&	= and	Ext.	= exterior	n.f.	= near face
@	= at	F	= fixed	No.	= number
Ø	= diameter	f.f.	= front/air face	o.c.	= on center
±	= approximate	f'c	= specified concrete compressive strength	O.H.W.	= ordinary high water
Abut.	= abutment	f'ci	= specified concrete compressive strength at release	pcf	= pounds per cubic foot
Approx.	= approximate			psf	= pounds per square foot
b.f.	= back/dirt face			psi	= pounds per square inch
bot.	= bottom			R	= radius
Br.	= bridge	Ft.	= feet	R.O.W.	= right of way
btwn.	= between	Fy	= yield stress	RT.	= right
Brg.	= bearings	Galv.	= galvanize	Rd.	= road
C.G.	= center of gravity	H.S.	= high strength	spcs.	= space, spaces
C.I.P.	= cast in place	Hwy.	= highway	Sta.	= station
CJP	= complete joint penetration	ID	= internal diameter	SF	= square feet
Clr.	= clear, clearance	Int.	= interior	SY	= square yard
CMP	= corrugated metal pipe	Jt.	= joint	Std.	= standard
CY	= cubic yard	K	= kips	Symm.	= symmetric
D.H.W.	= design high water	ksf	= 1000 pounds per square foot	Typ.	= typical
Dia.	= diameter	ksi	= 1000 pounds per square inch	UT	= ultrasonic testing
Dwg.	= drawing	LBS or lb	= pounds	V.P.C.	= point of vertical curve
E	= expansion	LF	= linear foot	V.P.I.	= point of vertical intersection
(E)	= existing	LS	= lump sum	V.P.T.	= point of vertical tangent
EA	= each	LT.	= left	w/	= with
Elev.	= elevation	max.	= maximum		

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975



HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
GENERAL NOTES

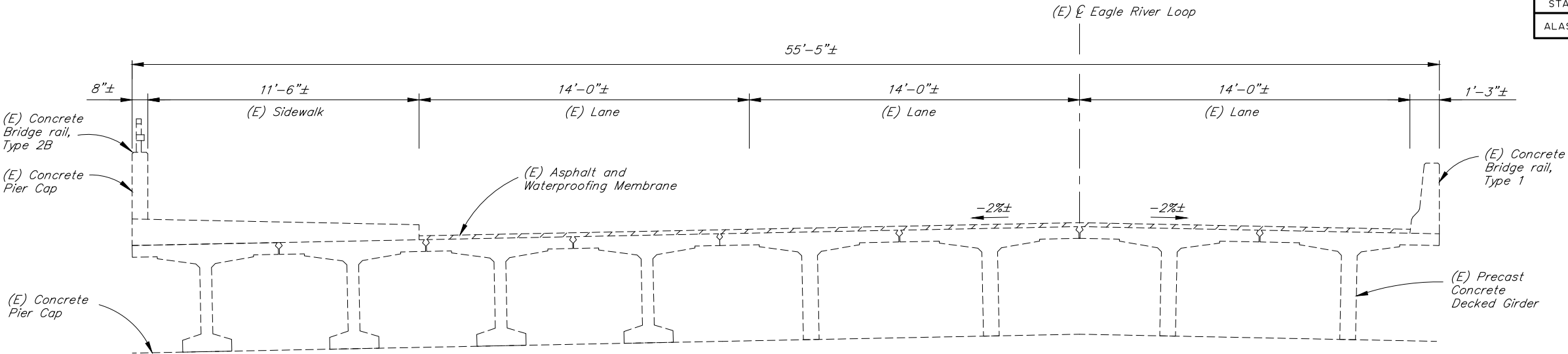


BRIDGE NO. 1327

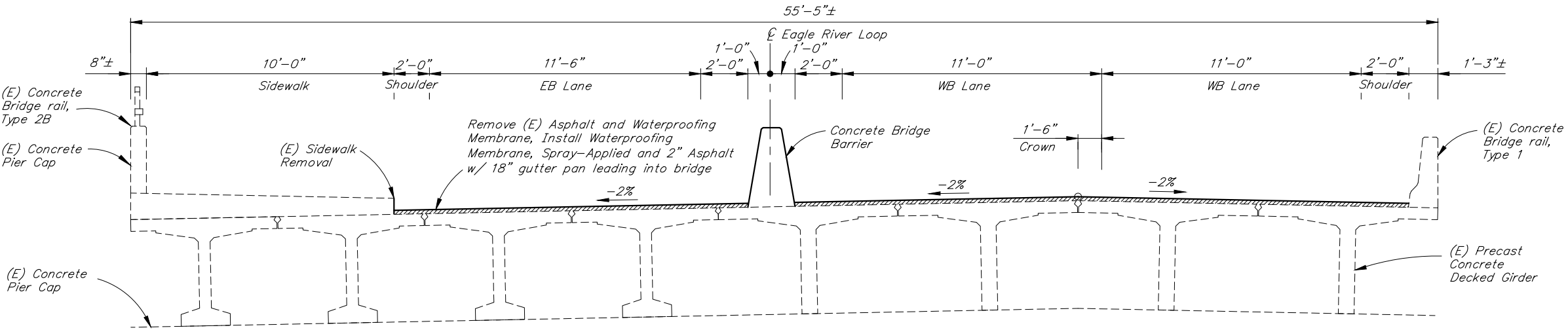
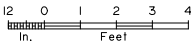
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\\dot.soa.alaska.gov\shared\BRIDGE\cad\1327\1327-3-TYP Tue, Sep/09/25 09:51am

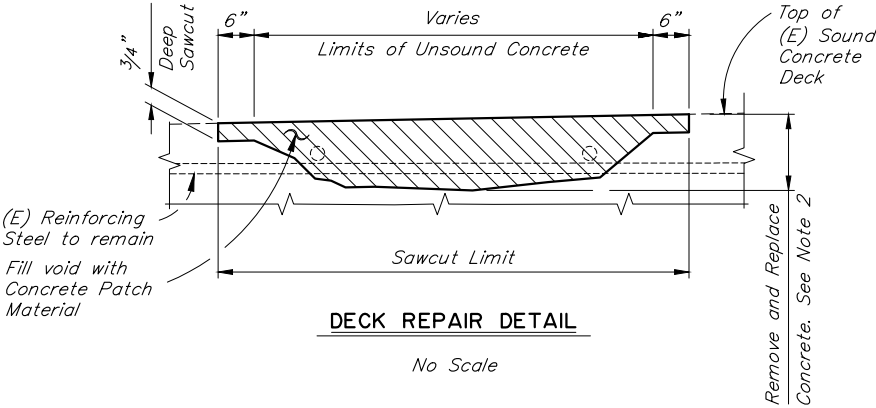
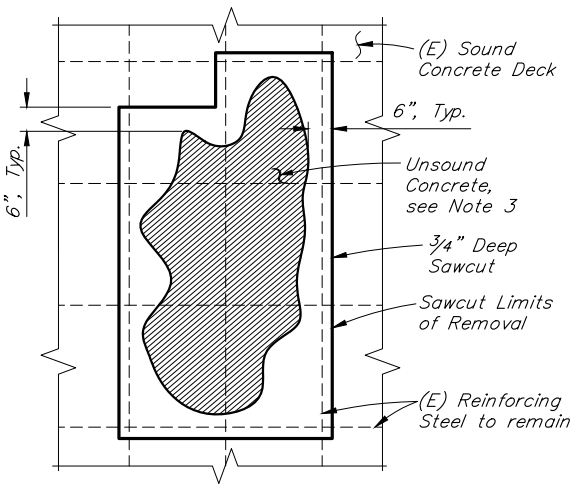
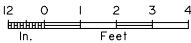
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N3	N11



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION



DECK REPAIR DETAIL

No Scale

NOTES:

- (E) = Existing
- = Existing
- = Proposed

- Bridge stations and elevations are based on as-built drawings.
- Verify controlling field dimensions before ordering or fabricating any material.
- Remove unsound concrete, expose & preserve existing reinforcing steel. Depth of concrete removal varies. Remove limits of sound concrete and a minimum of 3/4" below exposed reinforcing steel.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION
PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
TYPICAL SECTION

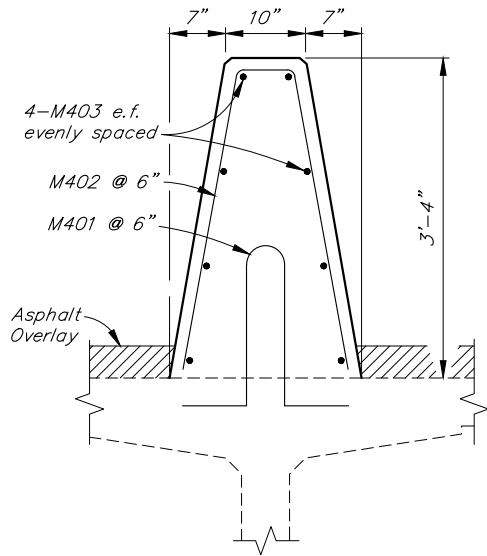


BRIDGE NO. 1327
DWG. NO. 3

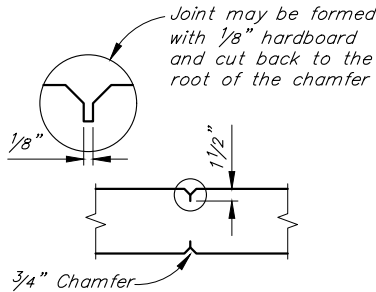
\\dot.soa.alaska.gov\shared\BRIDGE\cad\1327\1327-4-Conc Med Barr Tue, Sep/09/25 09:51am

STATE	PROJECT DESIGNATION				YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917				2025	N4	N11
REINFORCING STEEL - ALL BARRIERS							
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM	
M401	E	4	416	5'- $\frac{3}{4}$ "	BENT		
M402	E	4	416	6'-8"	BENT		
M403	E,S	4	8	208'-0"	---		
						8" 1'-8" 4$\frac{3}{4}$" M401 6$\frac{1}{2}$" 3'-1" 1'-7" M402	

E - Epoxy-Coated
S - Length does not include splices



TYPICAL SECTION



PLAN VIEW

WEAKENED PLANE JOINT

Locate at 20 feet max. spacing
No Scale

NOTES:

- (E) = Existing
----- = Existing
———— = Proposed

1. Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975



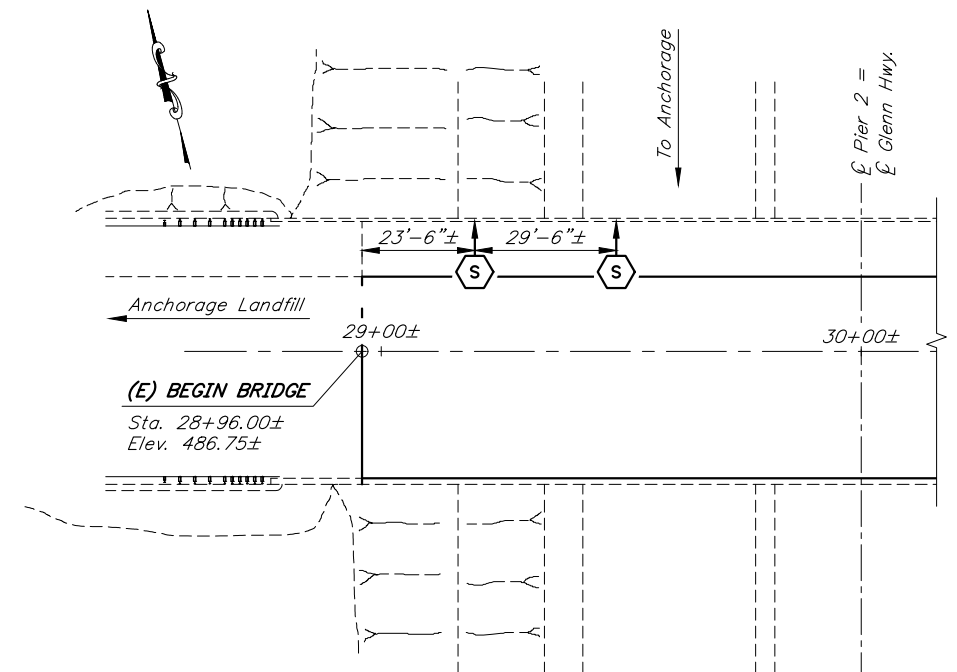
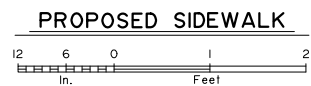
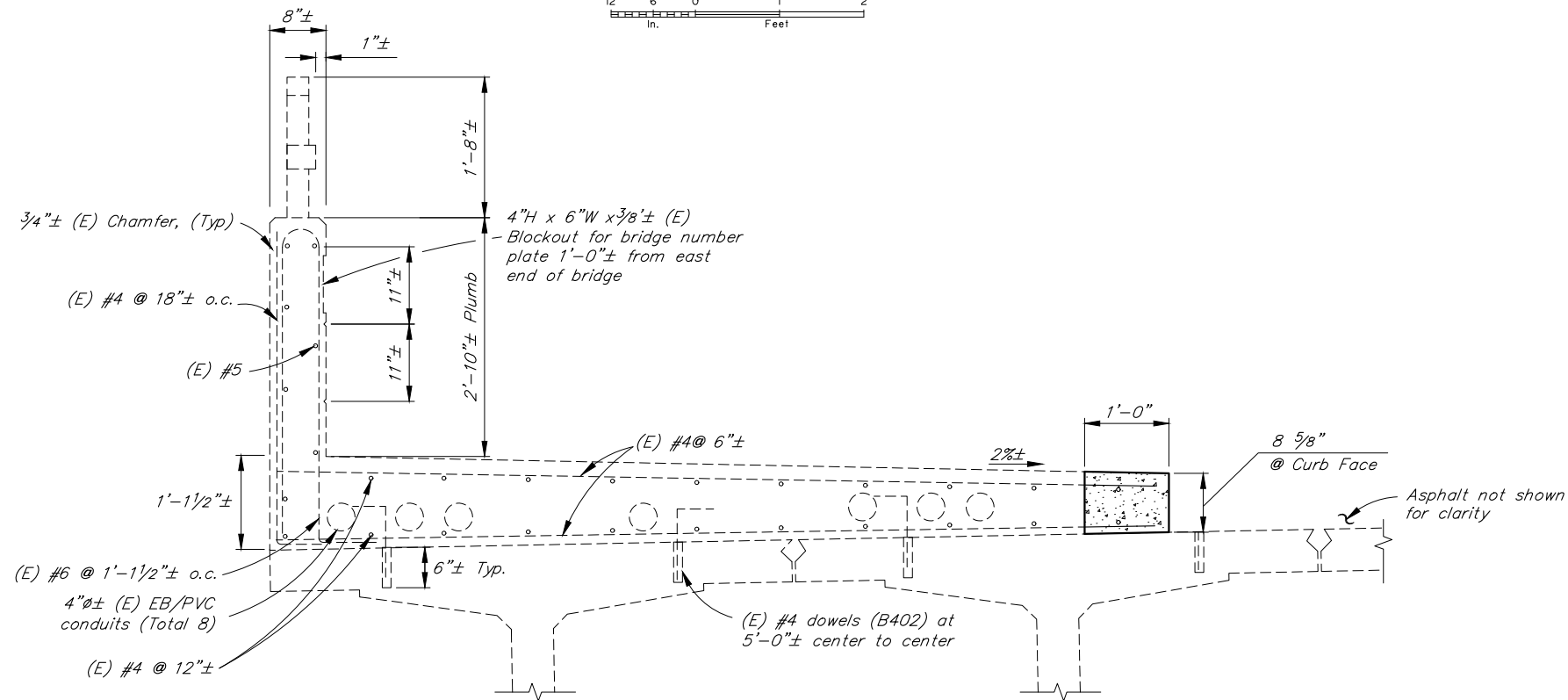
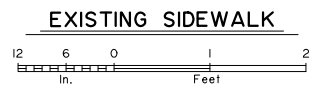
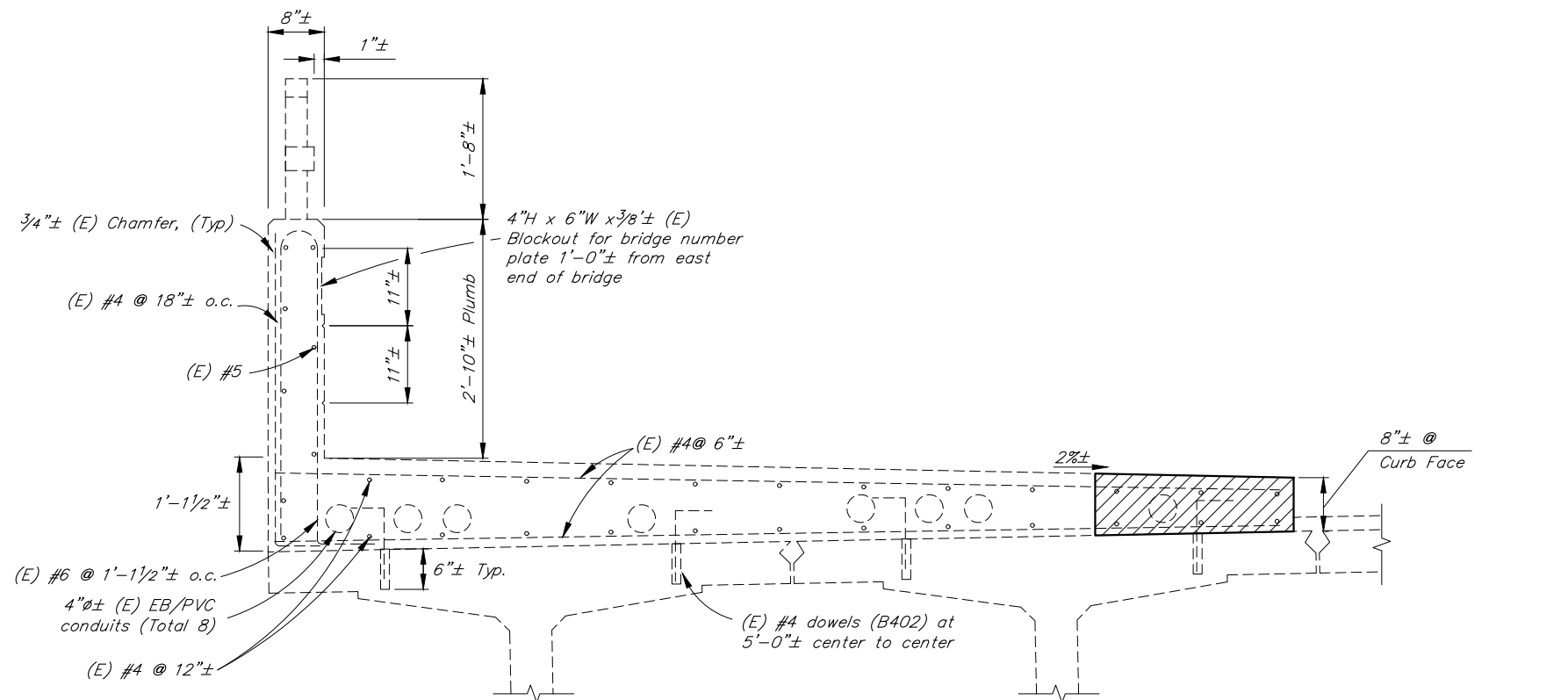
HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
CONCRETE MEDIAN BARRIER



BRIDGE NO. 1327

DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N5	N11



NOTES:

- (E) = Existing
- - - = Existing
- = Proposed
- [Pattern] = Proposed Concrete
- [Pattern] = Remove Concrete

1. Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

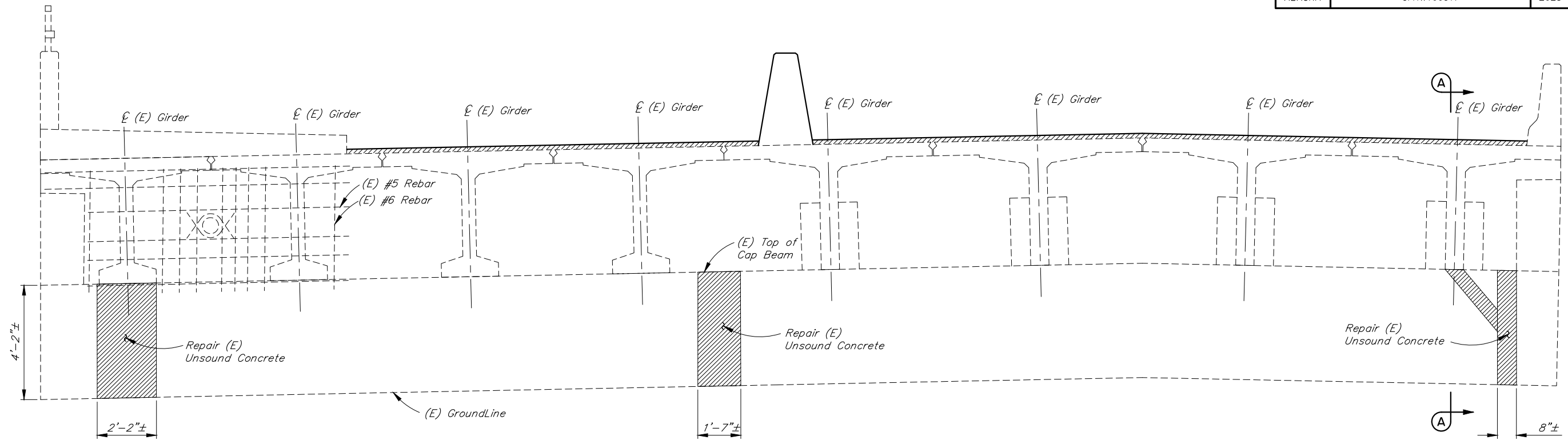
HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
BRIDGE RAIL AND SIDEWALK



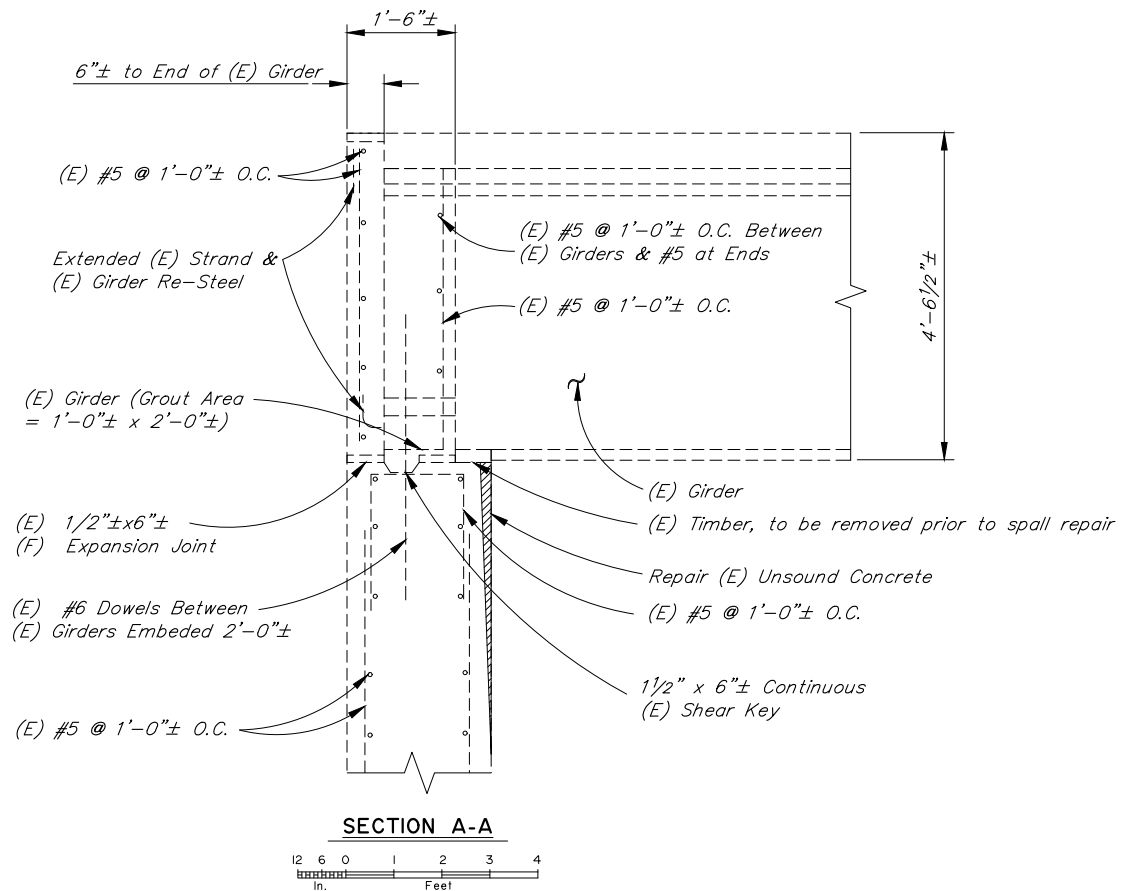
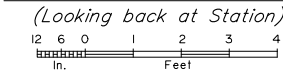
BRIDGE NO. 1327
DWG. NO. 5

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N6	N11



ABUTMENT I ELEVATION



NOTES:

- = Unsound Concrete
- (E) = Existing
- = Existing
- = Proposed

- Outline each area with a 3/4" deep cut perpendicular to the surface prior to the removal of deteriorated concrete. The Engineer may require additional saw cut outlines and additional concrete removal.
- Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

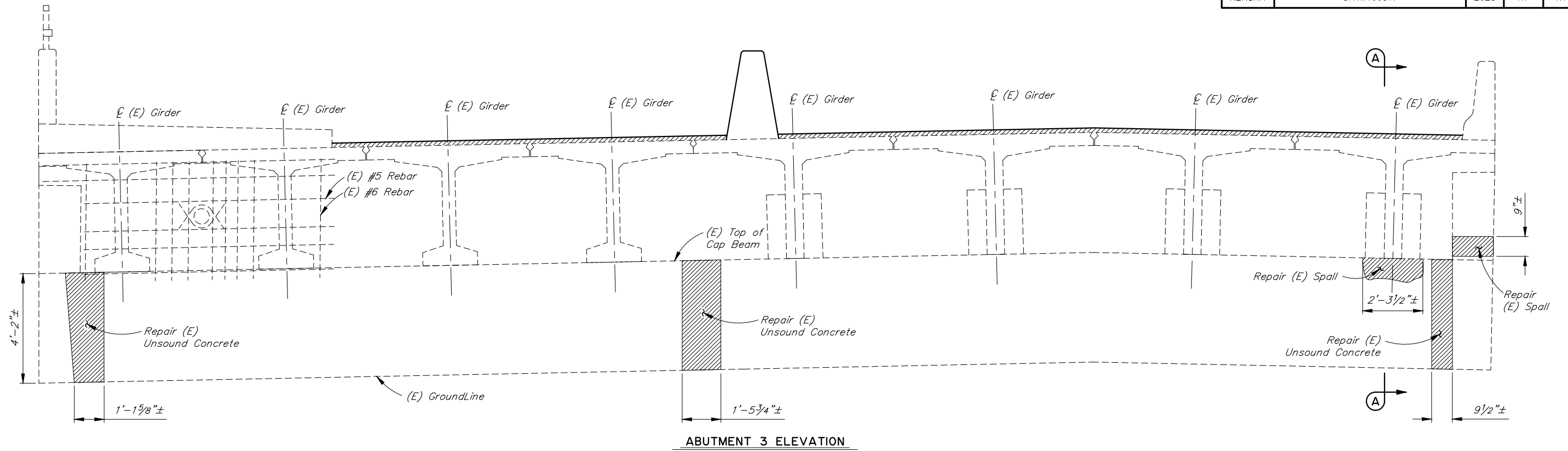
HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
ABUTMENT 1 REPAIR



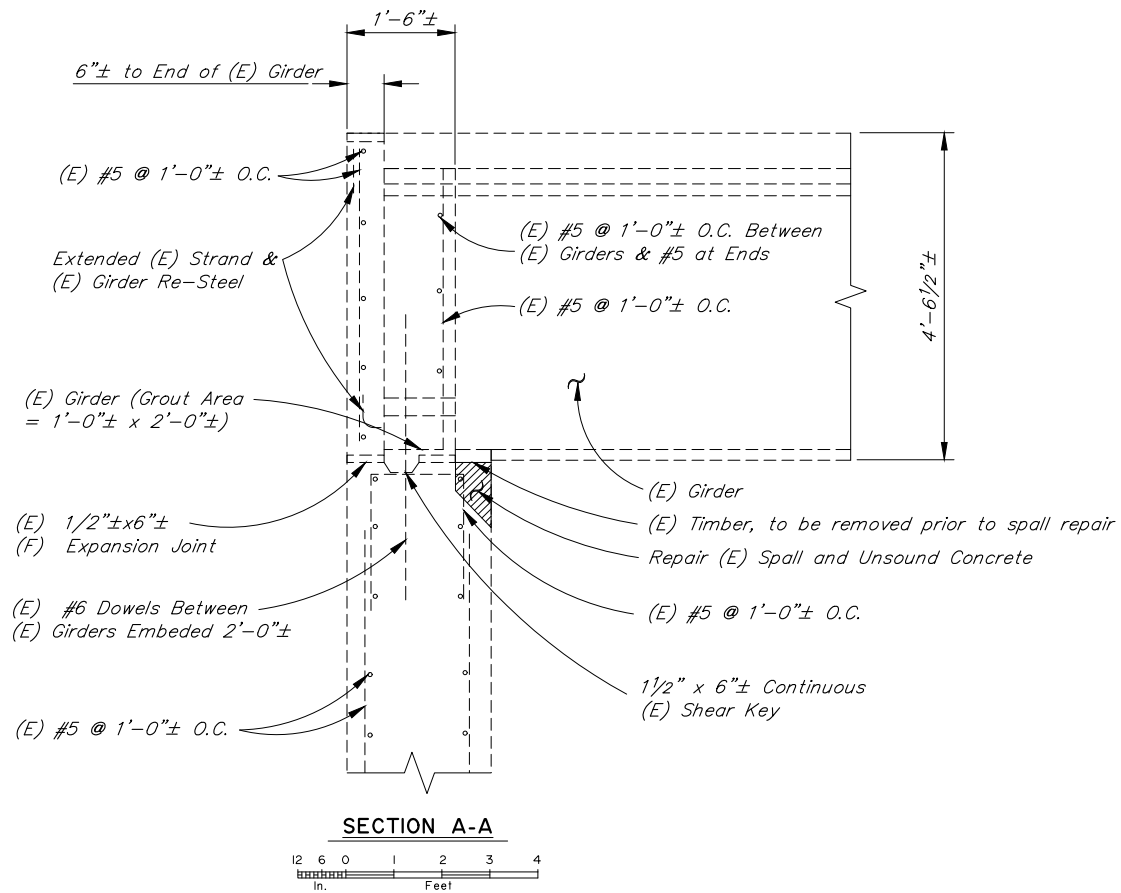
BRIDGE NO. 1327
DWG. NO. 6

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N7	N11



ABUTMENT 3 ELEVATION



SECTION A-A

NOTES:

- = Unsound Concrete
- (E) = Existing
- = Existing
- = Proposed

- Outline each area with a 3/4" deep cut perpendicular to the surface prior to the removal of deteriorated concrete. The Engineer may require additional saw cut outlines and additional concrete removal.
- Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

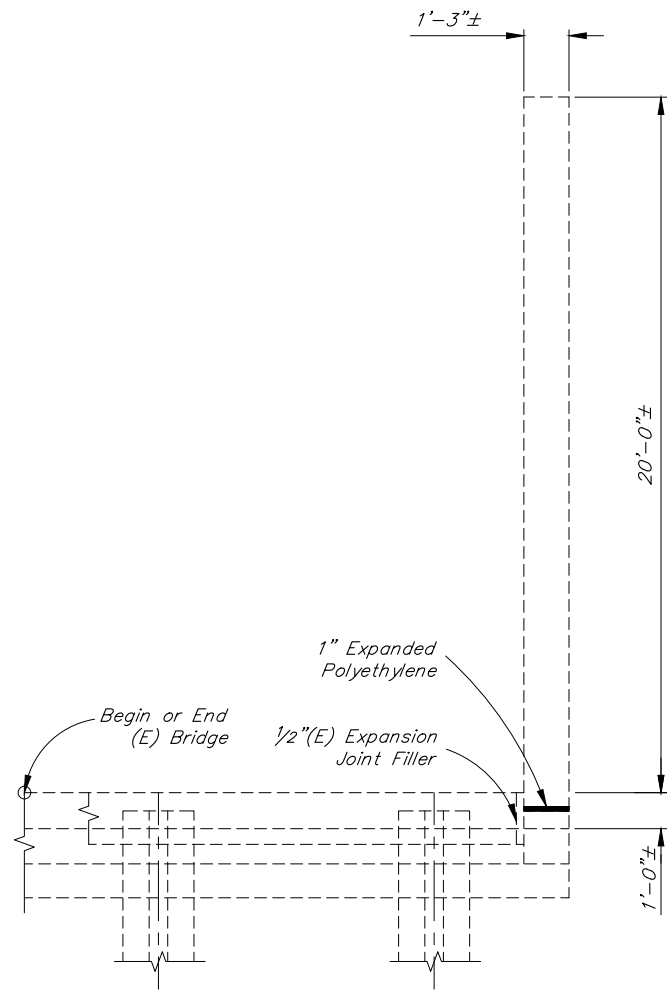
HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
ABUTMENT 3 REPAIR



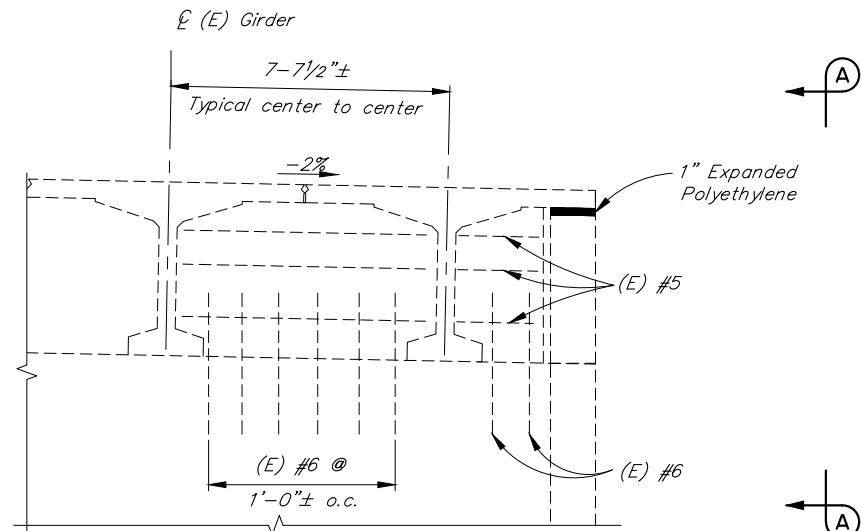
BRIDGE NO. 1327
DWG. NO. 7

\\dot.soa.alaska.gov\shared\BRIDGE\cad\1327\1327-8-WING Tue, Sep/09/25 09:51am

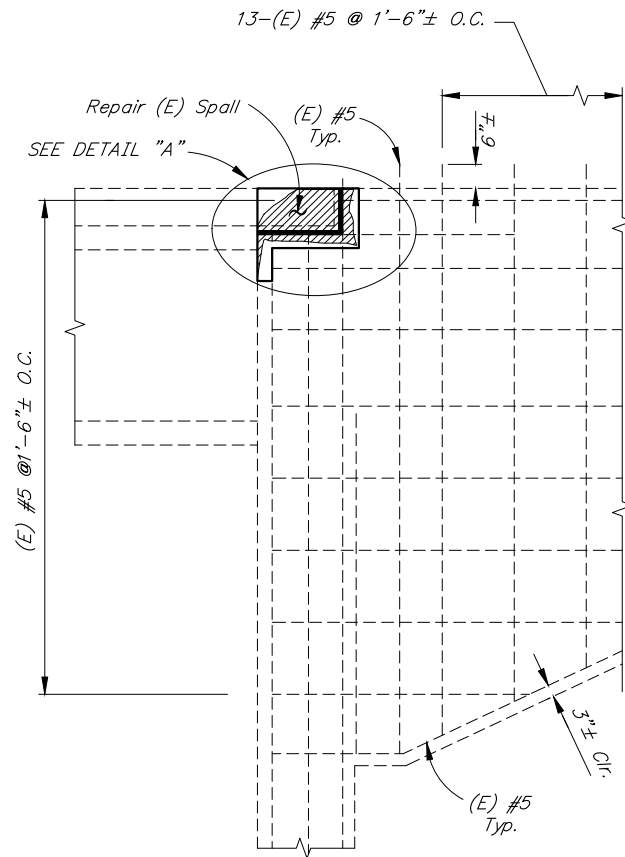
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N8	N11



PLAN
No Scale

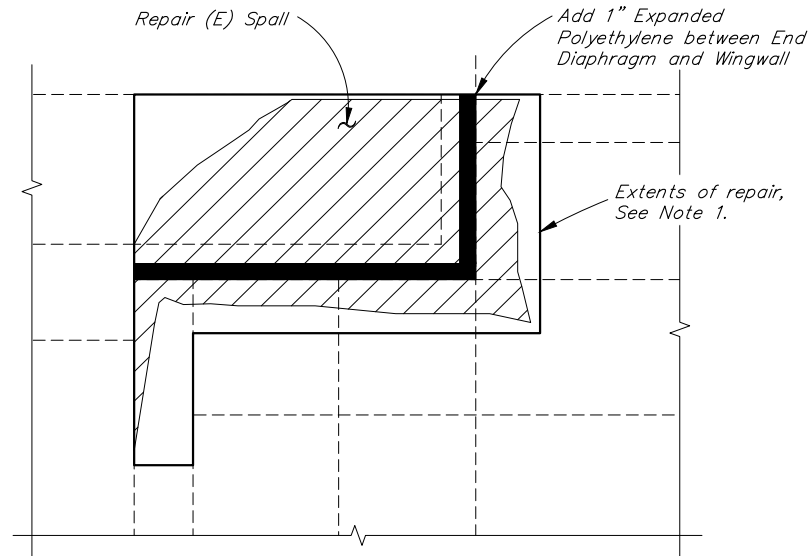


ELEVATION
No Scale



VIEW A-A
12 6 0 1 2 3 4
In. Feet

(End of Bridge, Right Side)
Other wingwalls are in
similar condition



DETAIL "A"
No Scale

NOTES:

- = Unsound Concrete
- (E) = Existing
- = Existing
- = Proposed

- Outline each area with a 3/4" deep cut perpendicular to the surface prior to the removal of deteriorated concrete. The Engineer may require additional saw cut outlines and additional concrete removal.
- End of Bridge, Right Side Wingwall shown. Work is for all wingwalls and all wingwalls are in similar conditions.
- Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION
PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

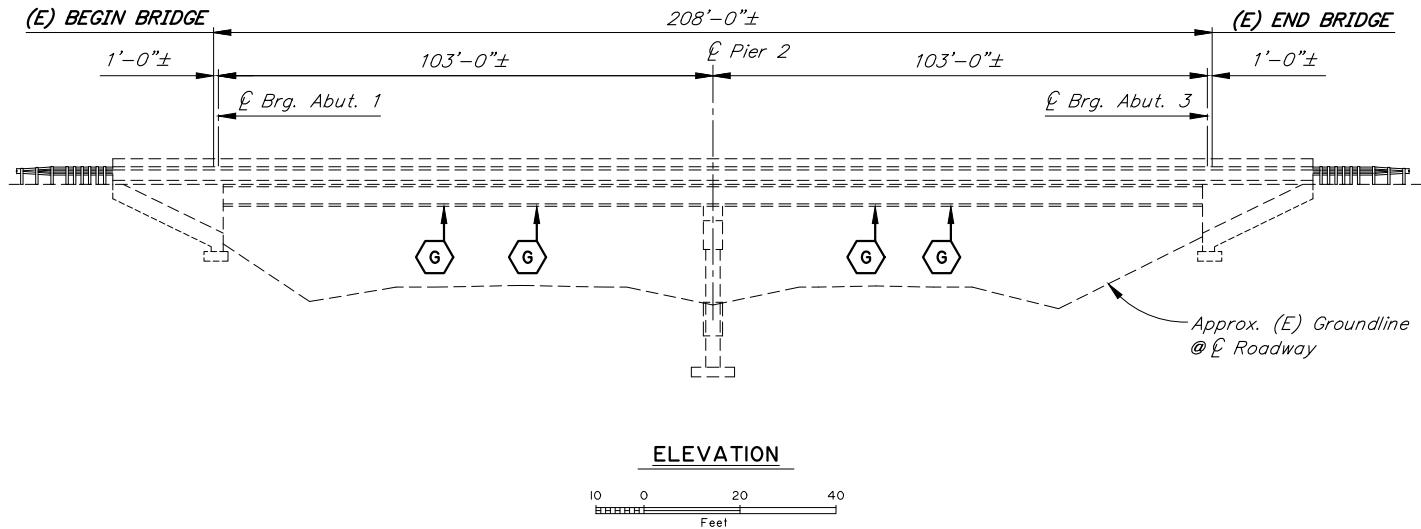
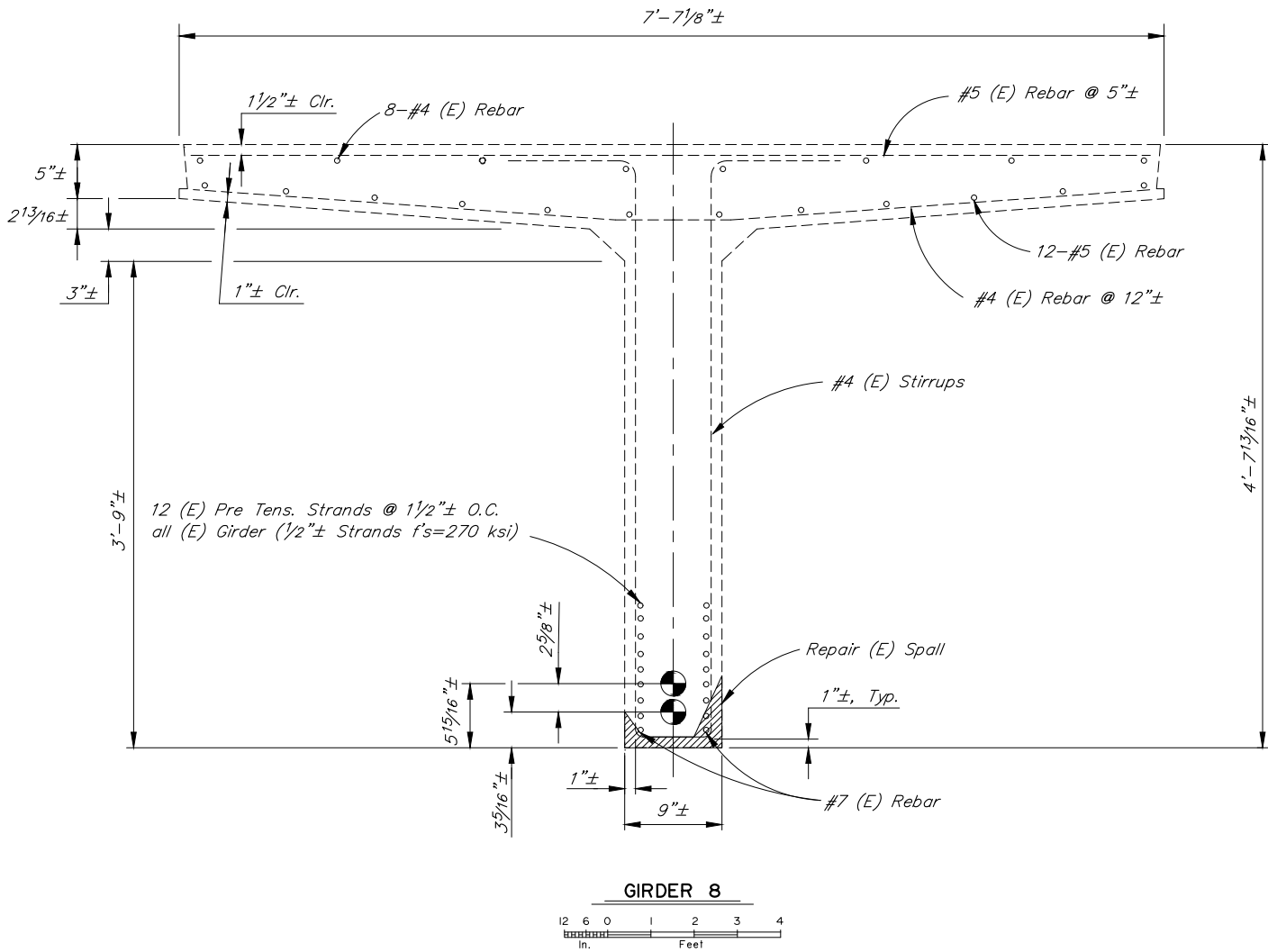
HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
WINGWALL REPAIR



BRIDGE NO. 1327
DWG. NO. 8

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N9	N11



NOTES:

-  = Repair Girder 8
-  = Unsound Concrete
- (E) = Existing
- = Existing
- = Proposed

1. Remove unsound concrete, expose and preserve existing reinforcing steel. Depth of concrete removal varies. Remove to limits of sound concrete and a minimum of 3/4" below exposed reinforcing steel. Galvanize exposed reinforcing steel and patch concrete with Concrete Patch Material.
2. Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

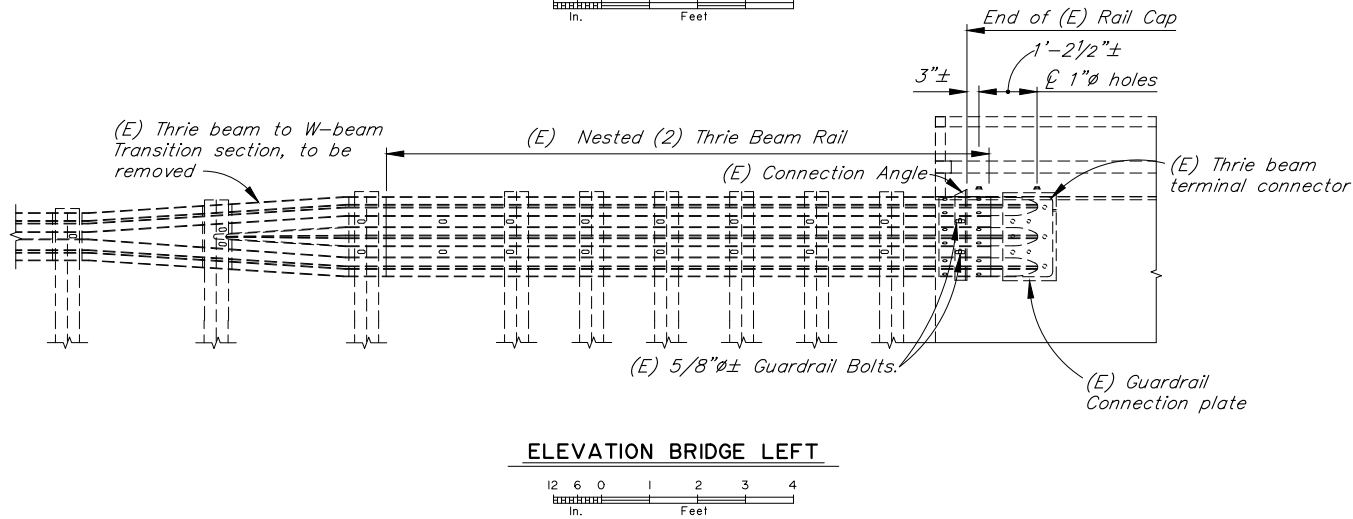
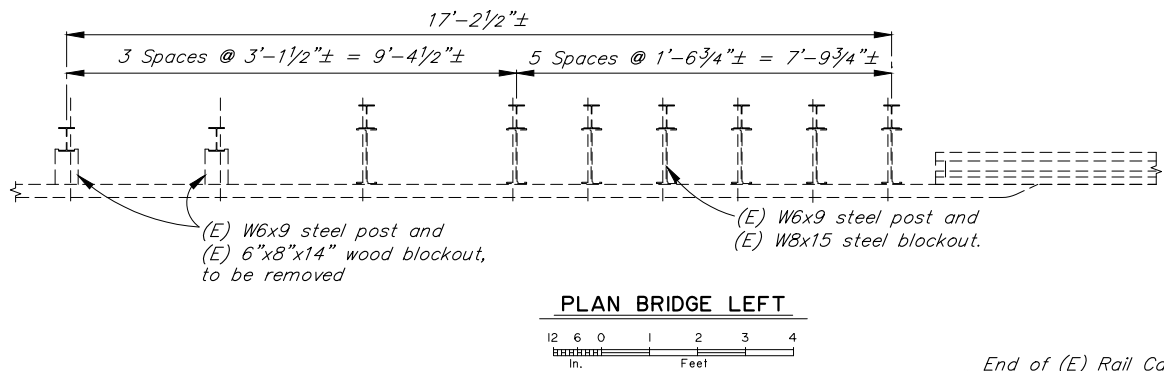
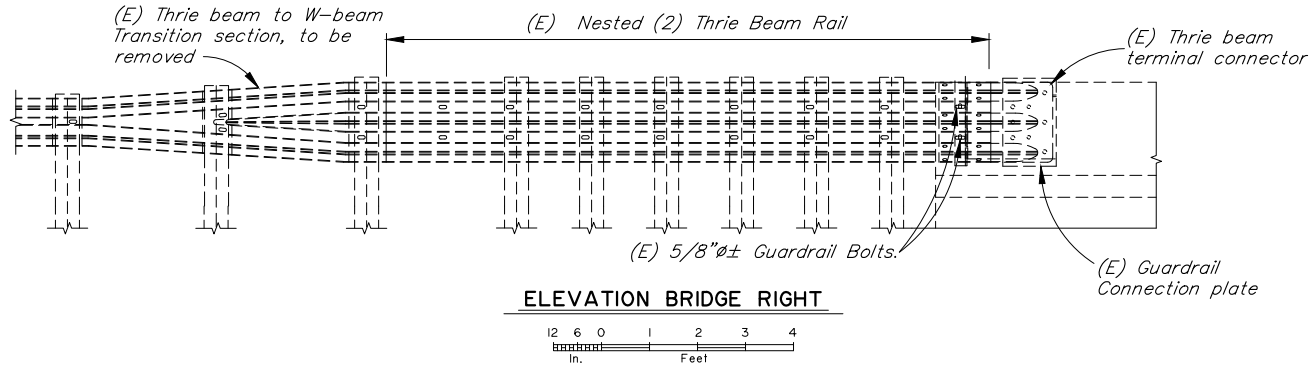
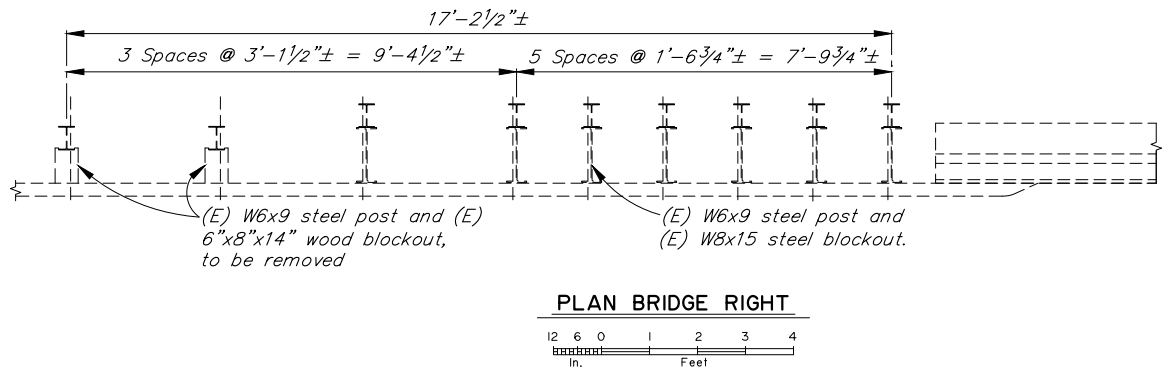
HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
GIRDER 8 REPAIR



BRIDGE NO. 1327
DWG. NO. 9

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N10	N11



NOTES:

(E) = Existing
----- = Existing
———— = Proposed

1. Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION
PRELIMINARY PLAN

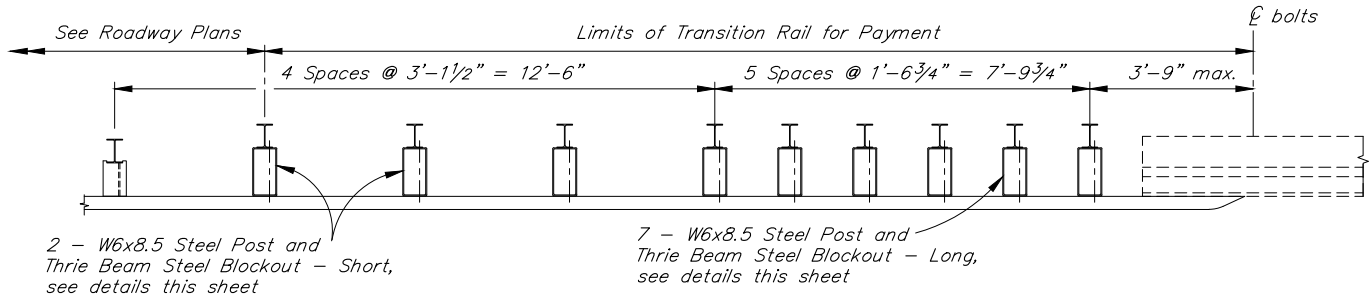
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975
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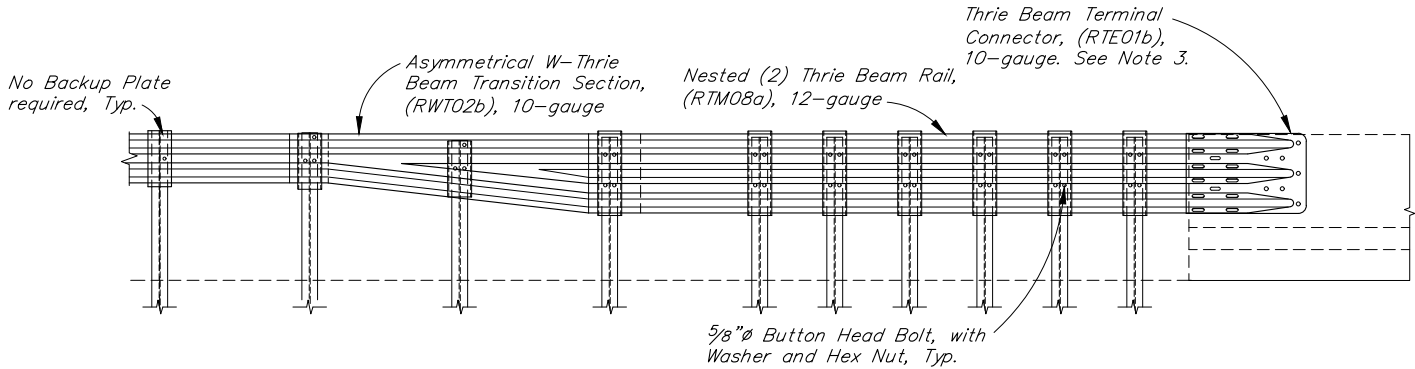
HILAND DRIVE OVERCROSSING EAGLE RIVER LOOP EXISTING TRANSITION RAIL


BRIDGE NO. 1327
DWG. NO. 10

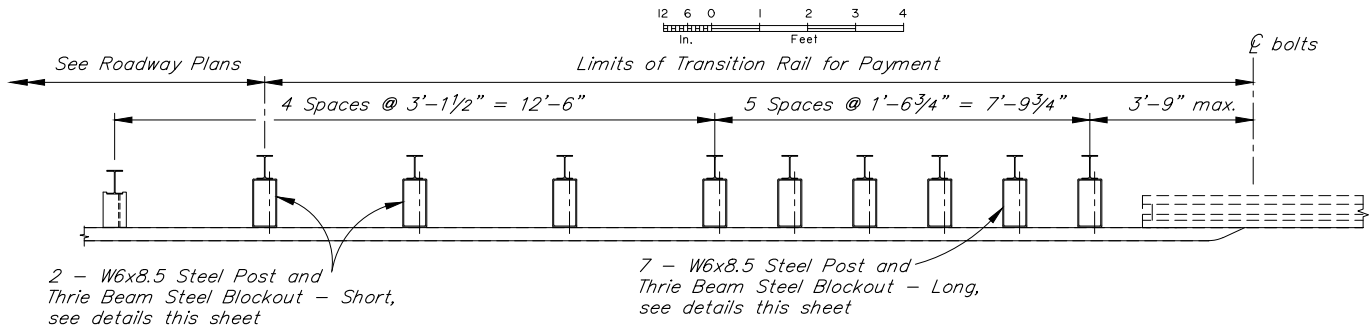
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00917	2025	N11	N11



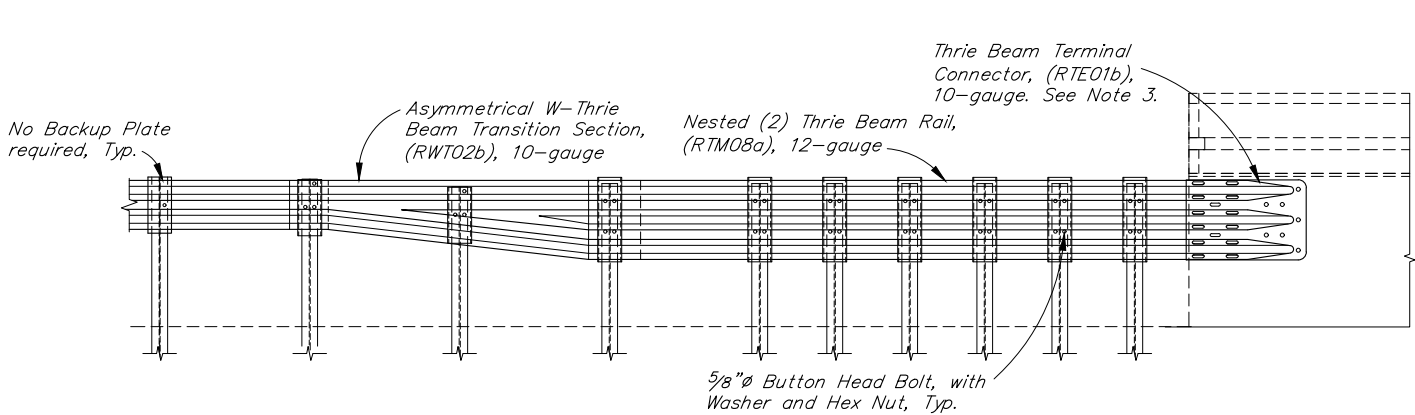
PLAN BRIDGE RIGHT



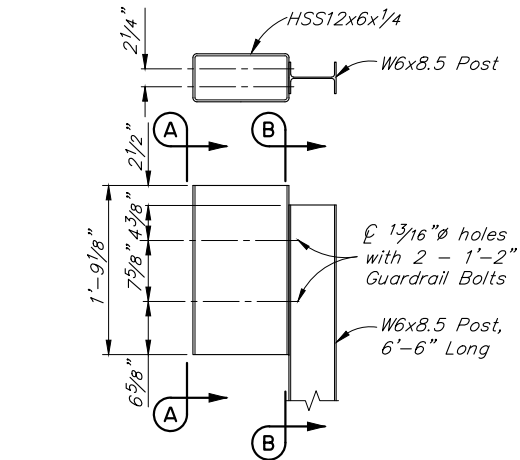
ELEVATION BRIDGE RIGHT



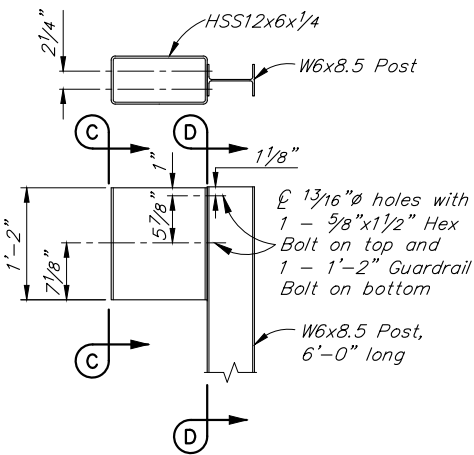
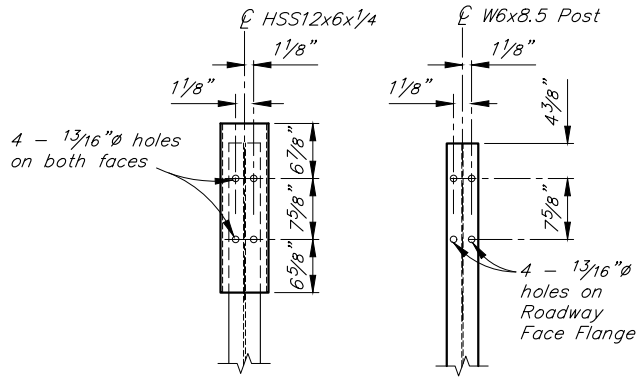
PLAN BRIDGE LEFT



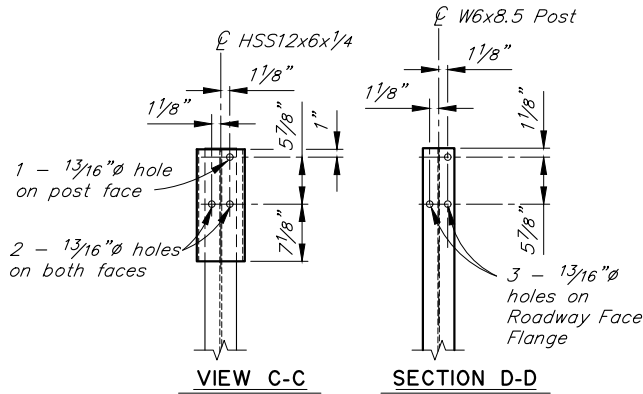
ELEVATION BRIDGE LEFT



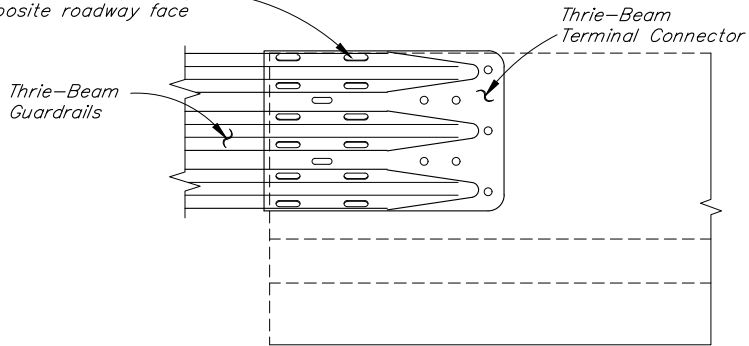
THRIE BEAM STEEL BLOCKOUT - LONG



THRIE BEAM STEEL BLOCKOUT - SHORT



12 holes for 12 - 5/8"Øx2" Guardrail Bolts (FBB02) and 12 - Rectangular Guardrail Plate Washers (FWR03) opposite roadway face



TRANSITION CONNECTION - ELEVATION

NOTES:

- (E) = Existing
- = Existing
- = Proposed
- Conform to G-00.05, G-05.11S, G-10.21, and G-32.03 of the Standard Plans for all Thrie Beam Transition details not shown.
 - Thrie Beam Transition part numbers are listed in parentheses () and referenced in the "Task Force 13 Guide to Standardize Roadside Hardware."
 - Contractor to select the Thrie-Beam Terminal Connector Original, Alternate 1 (shown) or Alternate 2 that fits over and under the Nested Thrie-Beam Guardrail components without field modifications.
 - Recessed Guardrail Nuts on all 5/8" Bolts unless otherwise indicated.
 - No Scale.

DESIGNED BY:	Julie Tibor	CHECKED:	Checker
DRAWN BY:	Rick Grantham	CHECKED:	Julie Tibor
QUANTITIES BY:	Julie Tibor	CHECKED:	Checker

REHABILITATION

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

HILAND DRIVE OVERCROSSING
EAGLE RIVER LOOP
PROPOSED TRANSITION RAIL



BRIDGE NO. 1327
DWG. NO. II