

STATE OF ALASKA

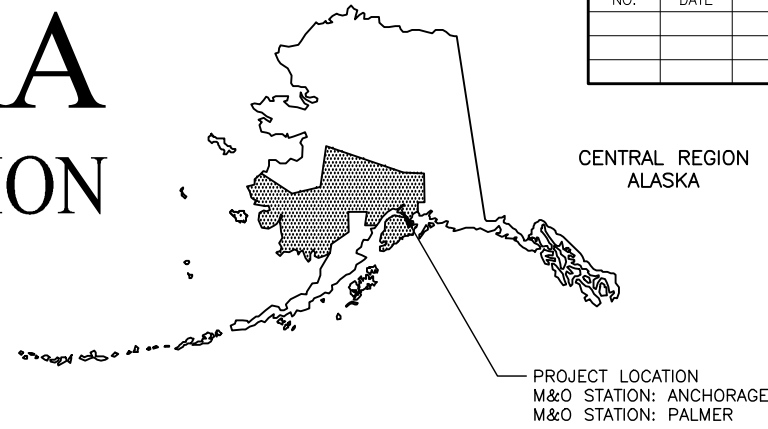
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

GLENN HIGHWAY BRIDGE DECK PRESERVATION

PROJECT NO. 0001685/CFHWY00523

GRADING, PAVING, BRIDGE, GUARDRAIL, & STRIPING



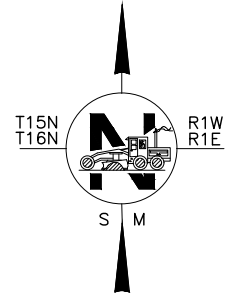
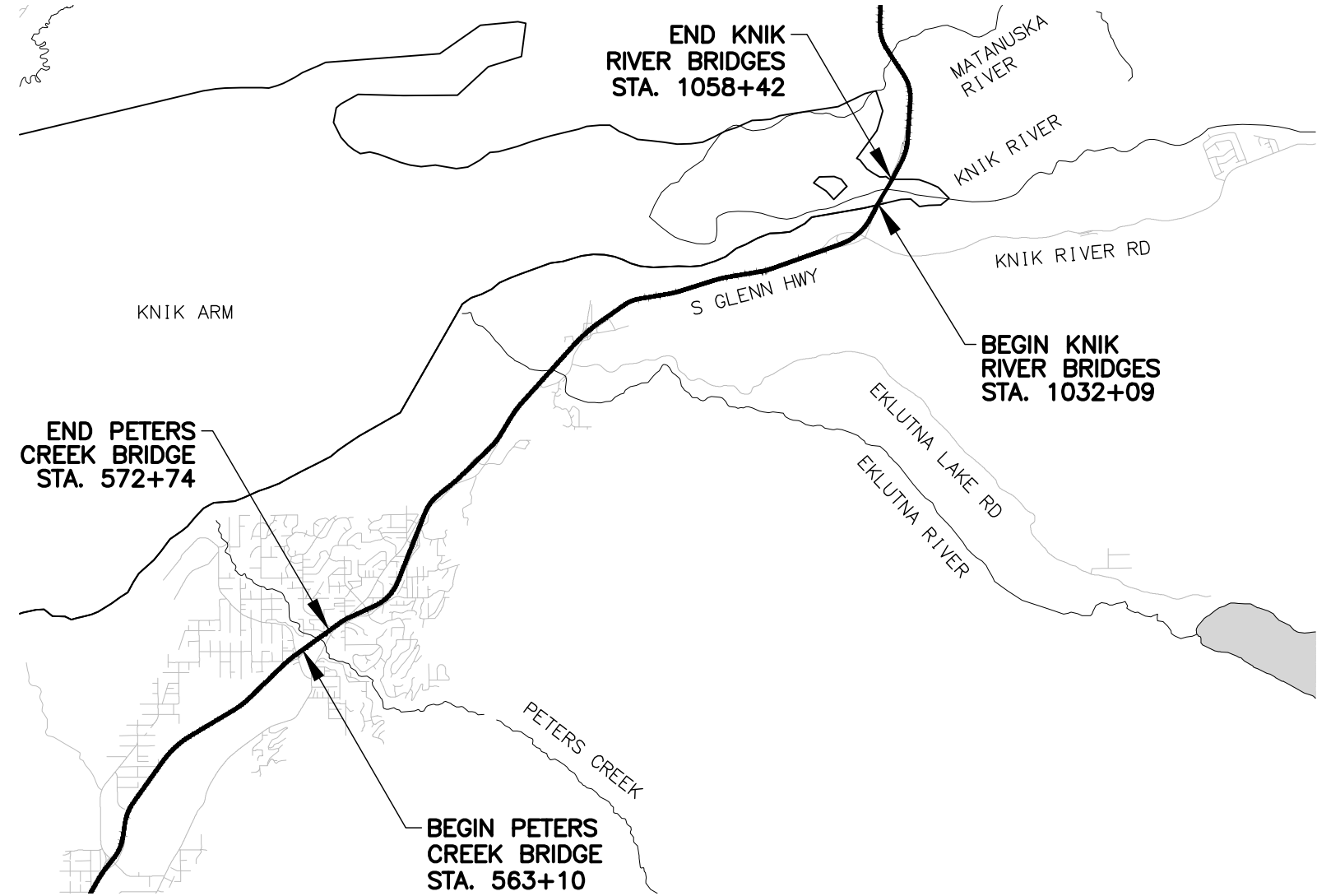
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			ALASKA	0001685/CFHWY00523	2024	A1	A3
ROUTE ID	10600001000	MILEPOINT	19.727 - 19.759				
LATITUDE	61.404728	LONGITUDE	-149.459129				
ROUTE ID	10600001000	MILEPOINT	28.725 - 29.015				
LATITUDE	61.481283	LONGITUDE	-149.252768				
ROUTE ID	1060000D000	MILEPOINT	5.301 - 5.591				
LATITUDE	61.481296	LONGITUDE	-149.253365				

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PROJECT SUMMARY		
ROADWAY	WIDTH	LENGTH
GLENN HIGHWAY MP 21	42 FT	1,600 FT
GLENN HIGHWAY NB MP 30	38 FT	1,620 FT
GLENN HIGHWAY SB MP 30	38 FT	2,600 FT

DESIGN DESIGNATIONS	
GLENN HIGHWAY	
FUNCTIONAL CLASS	INTERSTATE
AADT (2021)	38,000
DESIGN SPEED (V) (MPH)	70 MPH

BRIDGE DESIGNATIONS			
BRIDGE NAME	BRIDGE NUMBER	WIDTH	LENGTH
KNIK RIVER NB	1121	38 FT	1,532 FT
KNIK RIVER SB	1885	38 FT	1,532 FT
PETERS CREEK NB	1155	41.7 FT	168 FT
PETERS CREEK SB	1344	36.1 FT	168 FT



CERTIFICATION
 MARCH 2024

PLANS DEVELOPED BY: LOUNSBURY & ASSOCIATES INC.

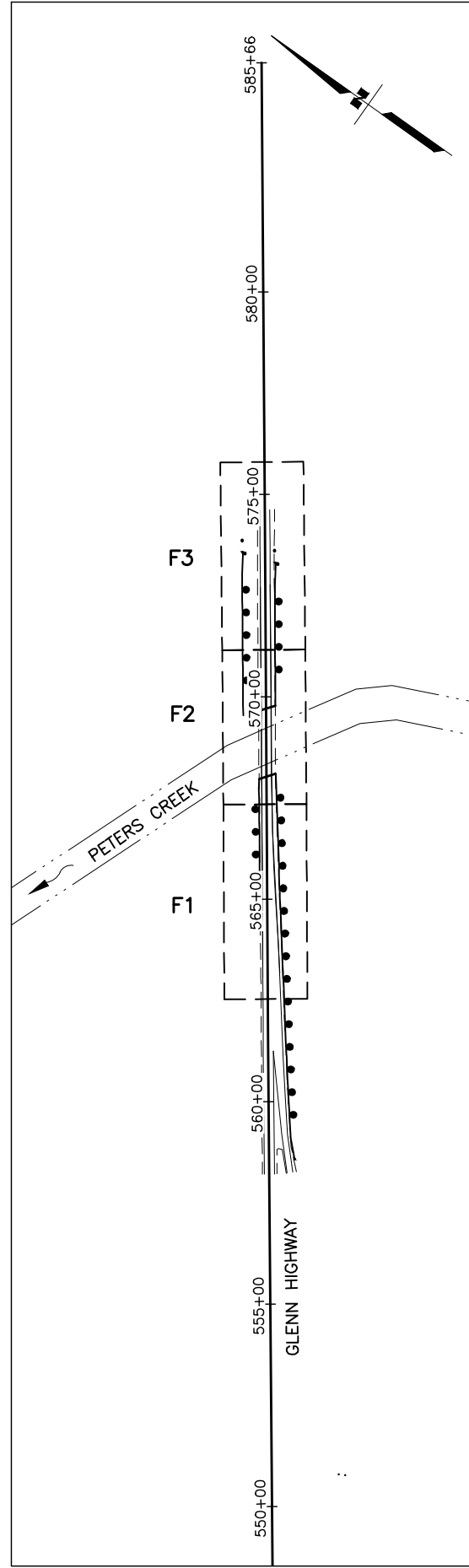
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 4111 AVIATION AVENUE, ANCHORAGE, AK 99502
 (907)269-0590

APPROVED:

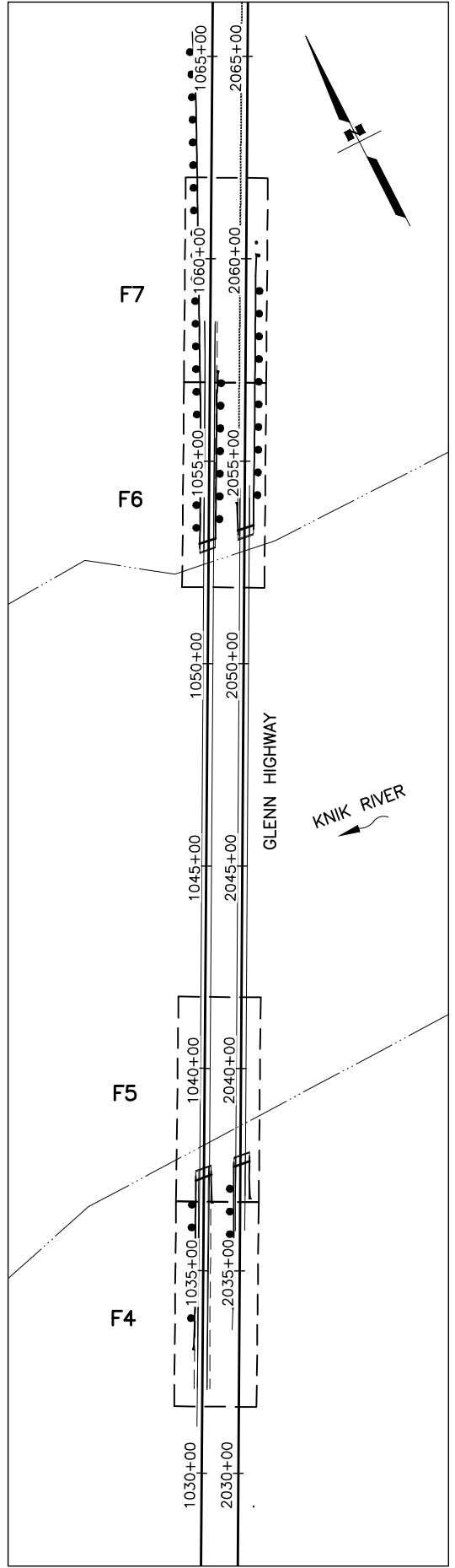
REGIONAL PRECONSTRUCTION ENGINEER	DATE
CONCUR:	
REGIONAL CONSTRUCTION ENGINEER	DATE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	A2	A3

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PETERS CREEK BRIDGE



KNIK RIVER BRIDGES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
2. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
3. PLACE 4" TOPSOIL AND SEED ON ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
4. STATIONS ARE BASED ON 1998 AS-BUILT DRAWINGS.
5. SOME 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.
6. FOR PARALLEL GUARDRAIL TERMINALS, USE AN END OFFSET OF 2 FEET.

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A3	LEGEND
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D2	SUMMARY TABLES
F1-F7	PLAN AND PROFILE SHEETS
H1-H3	SIGN SHEETS
J1-J23	TRAFFIC CONTROL SHEETS
N1-N24	BRIDGE SHEETS

THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

C-04.12, C-05.20, C-06.00
 D-01.02, D-04.22, D06.10, D-22.01, D-24.00, D-26.04
 G-00.05, G-05.11S, G-05.11W, G-10.21, G-11.01, G-20.12
 S-00.12, S-05.02, S-30.05
 T-05.10, T-06.00, T-20.04, T-21.04, T-25.10

ABBREVIATIONS:

ASP ALASKA STANDARD PLAN	LF LINEAR FEET
BOD BEGINNING OF DETOUR	LS LUMP SUM
BOP BEGINNING OF PROJECT	ML MAINLINE
EOD END OF DETOUR	MP MILEPOST
EOP END OF PROJECT	NO NUMBER, NUMBERING
CR CENTRAL REGION	Q# BRIDGE QUADRANT
CS CONTINGENT SUM	ROW RIGHT-OF-WAY
CY CUBIC YARD	STA STATION
FT FOOT OR FEET	SY SQUARE YARD
HR HOUR	TYP TYPICAL
LB POUND(S)	

SPECIFICATION:

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



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
DECK PRESERVATION**

**SHEET LAYOUT, INDEX,
ABBREVIATIONS, AND
GENERAL NOTES**

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST., SUITE 201,
ANCHORAGE, AK 99503
(907)272-5451
CERT. OF AUTHORITY NO. AECC391

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	A3	A3

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		
BOULDER OR BOULDERS		
PRIVATE SIGN, MAILBOX		
POST, BOLLARD		
HIGH TENSION CABLE GUARDRAIL		
HTCG - END TERMINAL WITH FOUNDATION		

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		
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	
8" WHITE LANE GUIDE SKIP	
4" YELLOW SKIP STRIPE	
STRIPING CHANGE STATION INTERVAL	
2' CROSSWALK OR STOPBAR	
LADDER 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		

TOPOGRAPHY

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

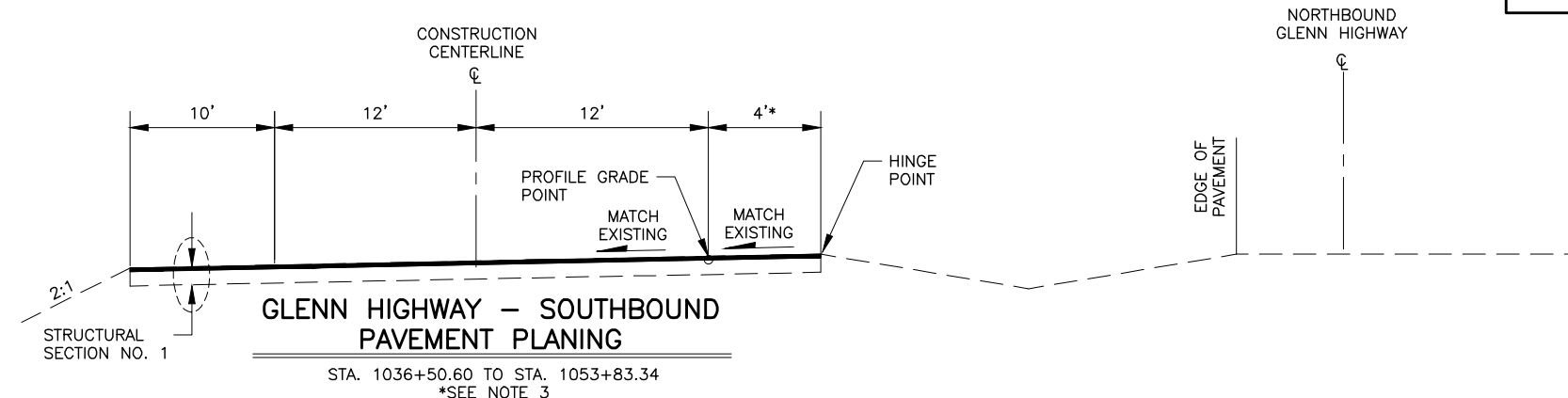
STATE OF ALASKA
 49th
CHECK SET
 SUSAN ACHESON
 CE-11319
 REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
 LEGEND

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
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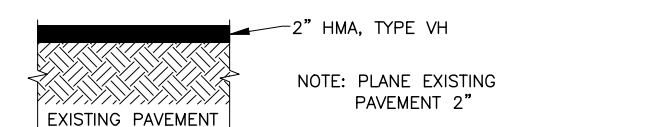
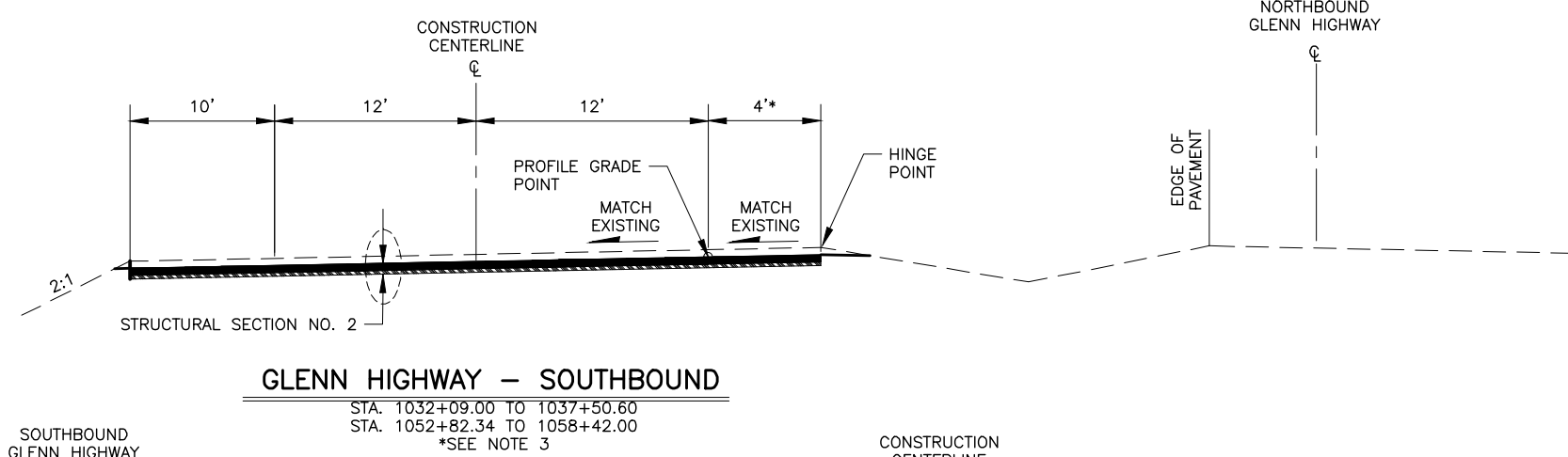
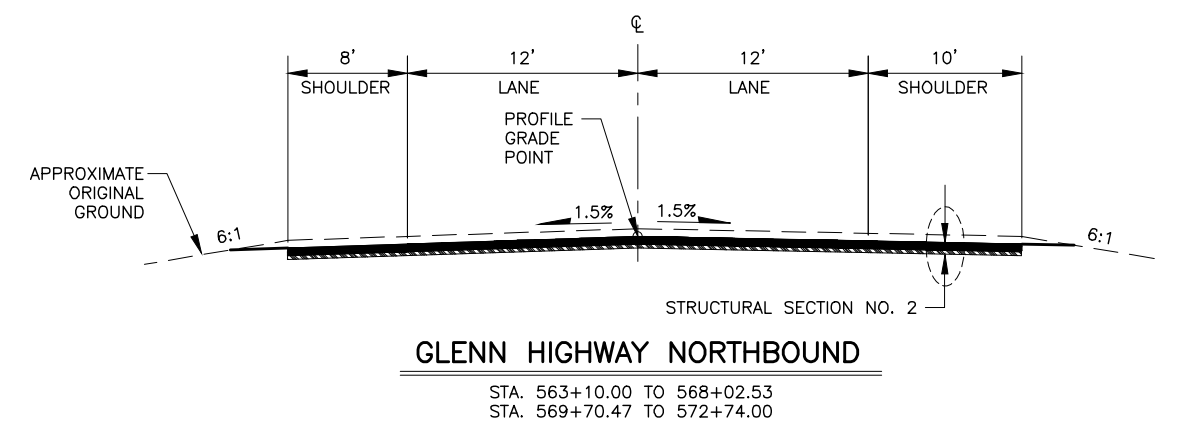
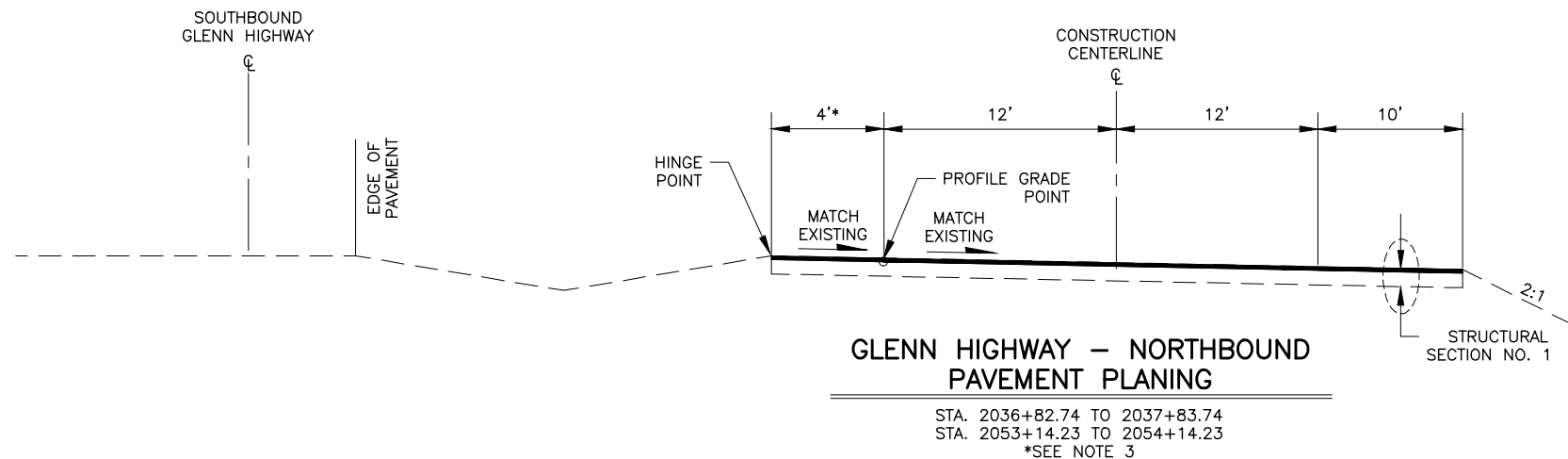
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	B1	B1

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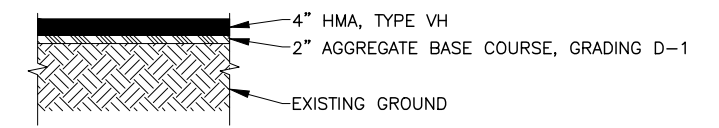


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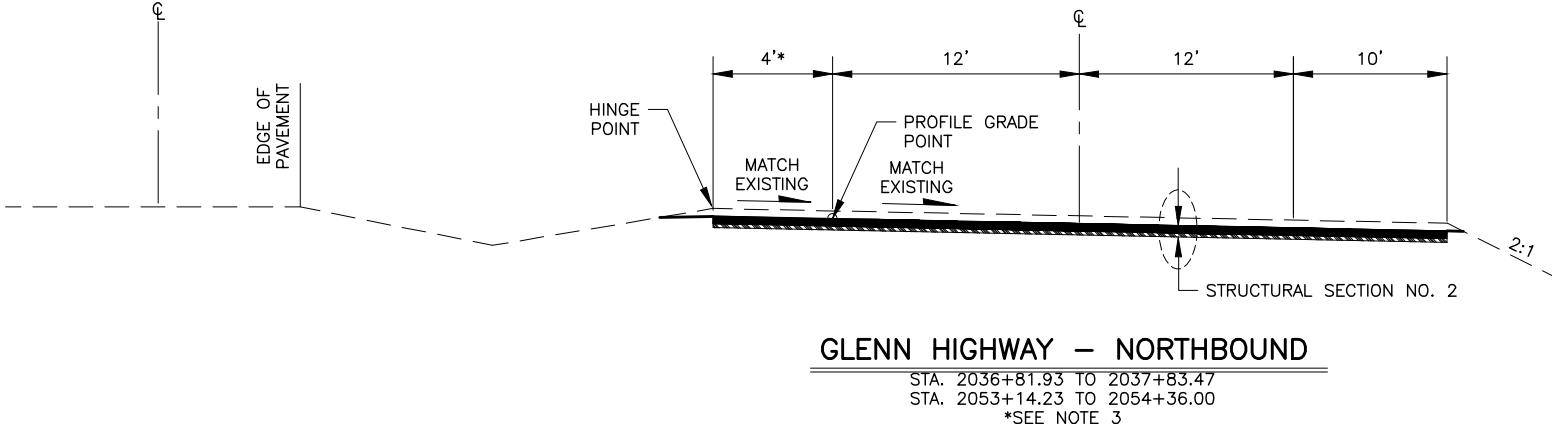
- WITHIN TWO (2) DAYS AFTER PAVING, PLACE AGGREGATE BASE COURSE, GRADING D-1 AGAINST PAVEMENT EDGE TO ENSURE THERE IS NO VERTICAL DROP AT THE EDGE OF PAVEMENT. USE APPROVED TRAFFIC CONTROL DEVICES IN THE INTERIM.
- PAVEMENT PLANING TO BE COMPLETED IN 2024 CONSTRUCTION SEASON. MATCH PLANING TO EXISTING CONCRETE AT EXPANSION JOINT.
- USE 100FT TRANSITION LENGTH TO MATCH BRIDGE SHOULDER GRADE.



PAVEMENT STRUCTURAL SECTION NO. 1



PAVEMENT STRUCTURAL SECTION NO. 2



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

TYPICAL SECTIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	C1	C1

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ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS DE-ICING SYSTEM	LS	ALL REQ'D
202.0002.0000	REMOVAL OF PAVEMENT	SY	16,900
202.2013.0000	REMOVE FUGITIVE MATERIALS	LF	5,650
202.2023.0000	PAVEMENT PLANING	SY	1,680
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	750
205.0006.0000	STRUCTURAL FILL	CY	224
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	2,150
406.0006.0000	RUMBLE STRIPS, SHOULDERS	STA	35
408.2001.00VH	HMA, TYPE VH	TON	3,850
408.2004.6440	ASPHALT BINDER, GRADE PG 64-40 E	TON	210
408.2008.00VH	HMA PRICE ADJUSTMENT, TYPE VH	CS	ALL REQ'D
408.2022.0000	COMBINED PRICE ADJUSTMENT	CS	ALL REQ'D
501.0002.0000	CLASS A-A CONCRETE	LS	ALL REQ'D
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LS	ALL REQ'D
507.2000.0000	STEEL BRIDGE RAILING REPLACEMENT, 2-TUBE	LF	361.5
507.2000.0000	STEEL BRIDGE RAILING REPLACEMENT, CONCRETE BRIDGE BARRIER	LF	160
510.0001.0000	REMOVAL OF CONCRETE BRIDGE DECK	SF	123,088
510.2001.0000	BRIDGE DECK REPAIR	CS	ALL REQ'D
516.0001.0003	EXPANSION JOINT, MODULAR BRIDGE JOINT SYSTEM	LF	86
516.0001.0004	EXPANSION JOINT, PRECOMPRESSED SILICONE COATED	LF	44
525.2001.0000	POLYESTER CONCRETE OVERLAY	LS	ALL REQ'D
606.0001.0000	W-BEAM GUARDRAIL	LF	4,675.0
606.0006.0000	REMOVING AND DISPOSING OF GUARDRAIL	LF	6,625.5
606.0013.0000	PARALLEL GUARDRAIL TERMINAL	EACH	11
606.0016.0000	TRANSITION RAIL	EACH	13
606.2022.0000	HIGH TENSION CABLE GUARDRAIL	LF	1,072
606.2023.0000	HIGH TENSION CABLE GUARDRAIL - END TERMINAL	EACH	1
606.2024.0000	HIGH TENSION CABLE GUARDRAIL - END TERMINAL FOUNDATION	EACH	1
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
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HR	60

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
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
643.0033.0000	DETOUR KNICK BRIDGES	LS	ALL REQ'D
643.0033.0000	DETOUR PETER'S CREEK BRIDGE	LS	ALL REQ'D
643.2029.0000	MOVEABLE BARRIER SYSTEM, CONCRETE BARRIER AND EQUIPMENT	LS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
644.2007.0000	VEHICLE (LT/SUV)	EACH	1
645.0001.0000	TRAINING PROGRAM, 1 TRAINEES/APPRENTICES	LH	500
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
647.2000.0000	WIDE PAD DOZER, 65-HP MINIMUM	CS	ALL REQ'D
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75-HP MINIMUM, 15 FT DEPTH	CS	ALL REQ'D
670.2006.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LF	12,100
682.2000.0000	VAC-TRUCK POTHOLE	CS	ALL REQ'D

TABLE OF ESTIMATING FACTORS		
ITEM NO.	DESCRIPTION	ESTIMATING FACTOR
203.0006.000A	BORROW, TYPE A	144 LB/CF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF
306.0001.0000	ATB	151 LB/CF
401.0001.002A	HMA, TYPE II; CLASS A	151 LB/CF
401.0004.5234	ASPHALT BINDER, GRADE PG 52-28	5.30%
408.2001.00VH	HMA, TYPE VH	151 LB/CF
408.2006.6440	ASPHALT BINDER, GRADE PG 64-40E	5.30%
618.0003.0000	WATER FOR SEEDING	1.0 GAL/SF



STATE OF ALASKA
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**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	D1	D2

202.0002.0000 – REMOVAL OF PAVEMENT

SHEET	BRIDGE NO.	STATION	OFFSET	AREA (SY)	REMARKS
F1	1155	563+10.0 TO 567+00.0	CL	2,100	
F2	1155	567+00.0 TO 571+00.0	CL	1,830	
F3	1155	571+00.0 TO 572+74	CL	810	
F4	1885	1032+09.0 TO 1036+00.0	CL	1,640	
F5	1885	1036+00.0 TO 1041+00.0	CL	2,090	
F5	1121	2036+82.0 TO 2037+82.6	CL	420	
F5-F6	1885	1041+00.0 TO 1051+00.0	CL	4,210	
F6	1885	1051+00.0 TO 1056+00.0	CL	2,110	
F6	1121	2053+14.2 TO 2054+36.0	CL	520	
F7	1885	1056+00.0 TO 1058+42.0	CL	1,110	
TOTAL (SY)				16,840	
PAY ITEM QUANTITY (SY)				16,900	

202.2023.0000 – PAVEMENT PLANING

SHEET	BRIDGE NO.	STATION	OFFSET	AREA (SY)	REMARKS
F5	1885	1036+50.6 TO 1037+50.6	CL	416	
F5	1121	2036+83.7 TO 2037+83.7	CL	419	
F6	1885	1052+82.3 TO 1053+82.3	CL	420	
F6	1121	2053+14.2 TO 2054+14.2	CL	422	
TOTAL (SY)				1,677	
PAY ITEM QUANTITY (SY)				1,680	

406.0006.0000 – RUMBLE STRIPS, SHOULDERS

SHEET	BRIDGE NO.	STATION	OFFSET	LENGTH (STA)	REMARKS
F1	1155	563+06.9 TO 567+00.0	LT	3.90	
F2	1155	567+00.0 TO 567+98.9	LT	1.00	
F2	1155	569+67.0 TO 571+00.0	LT	1.30	
F2	1155	569+74.5 TO 571+00.0	RT	1.30	
F3	1155	571+00.0 TO 573+58.4	LT	2.60	
F3	1155	571+00.0 TO 573+64.8	RT	2.60	
F4	1885	1032+05.7 TO 1036+00.0	RT	3.90	
F4	1885	1032+12.3 TO 1036+00.0	LT	3.90	
F5	1885	1036+00.0 TO 1037+55.2	RT	1.60	
F5	1885	1036+00.0 TO 1037+46.0	LT	1.50	
F5	1121	2036+77.8 TO 2037+87.3	RT	1.00	
F5	1121	2036+77.8 TO 2037+78.24	LT	1.00	
F6	1885	1052+79.1 TO 1056+00.0	LT	3.20	
F6	1121	2053+10.0 TO 2054+32.0	LT	1.20	
F6	1121	2053+18.8 TO 2054+40.3	RT	1.20	
F7	1885	1056+00.0 TO 1058+45.9	LT	2.50	
F7	1885	1057+17.7 TO 1058+38.7	RT	1.20	
TOTAL (STA)				34.9	
PAY ITEM QUANTITY (STA)				35	

202.2013.0000 REMOVE FUGITIVE MATERIALS

SHEET	BRIDGE NO.	STATION	OFFSET	LENGTH (LF)	REMARKS
F1	1155	558+55.9 TO 561+21.0	RT	267	
F1	1155	561+56.2 TO 563+00.0	RT	145	
F1	1155	563+00.0 TO 567+00.0	RT	400	
F1	1155	564+17.3 TO 567+00.0	LT	284	
F2	1155	567+00.0 TO 567+97.0	LT	96	
F2	1155	567+00.0 TO 568+09.2	RT	109	
F2	1344	569+53.7 TO 571+00.0	LT	146	
F2	1155	569+64.9 TO 570+39.9	LT	75	
F2	1155	569+77.1 TO 571+00.0	RT	123	
F3	1155	571+00.0 TO 573+27.6	RT	228	
F3	1344	571+00.0 TO 573+53.7	LT	254	
F4	1885	1033+09.2 TO 1036+00.0	LT	291	
F4	1121	2033+55.1 TO 2036+00.0	LT	245	
F5	1121	2036+00.0 TO 2037+67.6	LT	167	
F5	1121	2036+76.7 TO 2037+82.8	RT	106	
F5	1885	1036+00.0 TO 1037+34.2	LT	134	
F5	1885	1036+72.2 TO 1037+47.2	RT	75	
F6	1885	1052+84.4 TO 1056+00.0	LT	316	
F6	1885	1053+05.2 TO 1056+00.0	RT	295	
F6	1121	2053+17.8 TO 2053+89.3	LT	71	
F6	1121	2053+31.9 TO 2056+00.0	RT	268	
F7	1121	2056+00.0 TO 2060+06.9	RT	407	
F7	1885	1056+00.0 TO 1057+17.7	RT	118	
F7	1885	1056+00.0 TO 1061+00.0	LT	500	
F7	1885	1061+00.0 TO 1066+09.1	LT	509	
TOTAL (LF)				5,629	
PAY ITEM QUANTITY (LF)				5,650	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
DECK PRESERVATION**

SUMMARY TABLES

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST., SUITE 201,
ANCHORAGE, AK 99503
(907)272-5451
CERT. OF AUTHORITY NO. AECC391

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	D2	D2

606.0001.0000, 606.0006.0000, 606.0013.0000, 606.2022.0000, 606.2023.0000, 606.2024.0000 – W-BEAM GUARDRAIL, TERMINALS

BEGIN STATION	END STATION	OFFSET SIDE	606.0006.0000 REMOVING AND DISPOSING OF GUARDRAIL (LF)	606.0001.0000 W-BEAM GUARDRAIL (LF)	606.0013.0000 PARALLEL GUARDRAIL TERMINAL (EACH)	606.2022.0000 HIGH TENSION CABLE GUARDRAIL (LF)	606.2023.0000 HTCG – END TERMINAL (EACH)	606.2024.0000 HTCG – END TERMINAL FOUNDATION (EACH)	CASE*	REMARKS
558+60.3	568+09.2	RT	922.0	875.0	1				3	BRIDGE #1155: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY REMOVE APPROACHING TERMINAL AND EXTEND GUARDRAIL TO CONNECT WITH GUARDRAIL AT ON RAMP
564+72.0	567+97.0	LT	325.0	300.0					3	BRIDGE #1155: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
569+64.9	570+39.9	LT	55.0		1				3	BRIDGE #1155: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
569+77.1	573+27.1	RT	350.0	275.0	1				3	BRIDGE #1155: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
569+53.7	573+53.7	LT	400.0	325.0	1				3	BRIDGE #1344 USE BRIDGE #1155 ALIGNMENT STATIONS
2034+05.1	2037+67.6	LT	362.5	337.5					3	BRIDGE #1121: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
2036+82.9	2037+82.8	RT	100.0	25.0	1				3	BRIDGE #1121: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
2053+17.8	2053+92.7	LT	75.0		1				3	BRIDGE #1121: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
2053+31.9	2060+06.9	RT	675.0	600.0	1				5	BRIDGE #1121: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
1033+09.2	1037+34.2	LT	425.0	350.0	1				3	BRIDGE #1885: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
1036+72.2	1037+47.2	RT	74.0		1				3	BRIDGE #1885: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
1052+84.4	1066+09.1	LT	1325.0	1250.0	1				3	BRIDGE #1885: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
1053+05.2	1057+17.7	RT	413.0	337.5	1				3	BRIDGE #1885: SEE N SHEET FOR TRANSITION TYPE AND QUANTITY
1055+06.7	1055+58.7	LT	52.0				1	1		HTCG END TERMINAL REMOVAL AND INSTALLATION
1055+58.7	1066+30.7	LT	1072.0			1072.0				EXISTING HIGH TENSION CABLE GUARDRAIL REMOVAL AND INSTALLATION
		TOTAL	6625.5	4675.0	11	1072.0	1	1		

* SEE ASP G-10

DESIGNED BY: _____ CHECKED BY: _____ DRAFTED BY: _____
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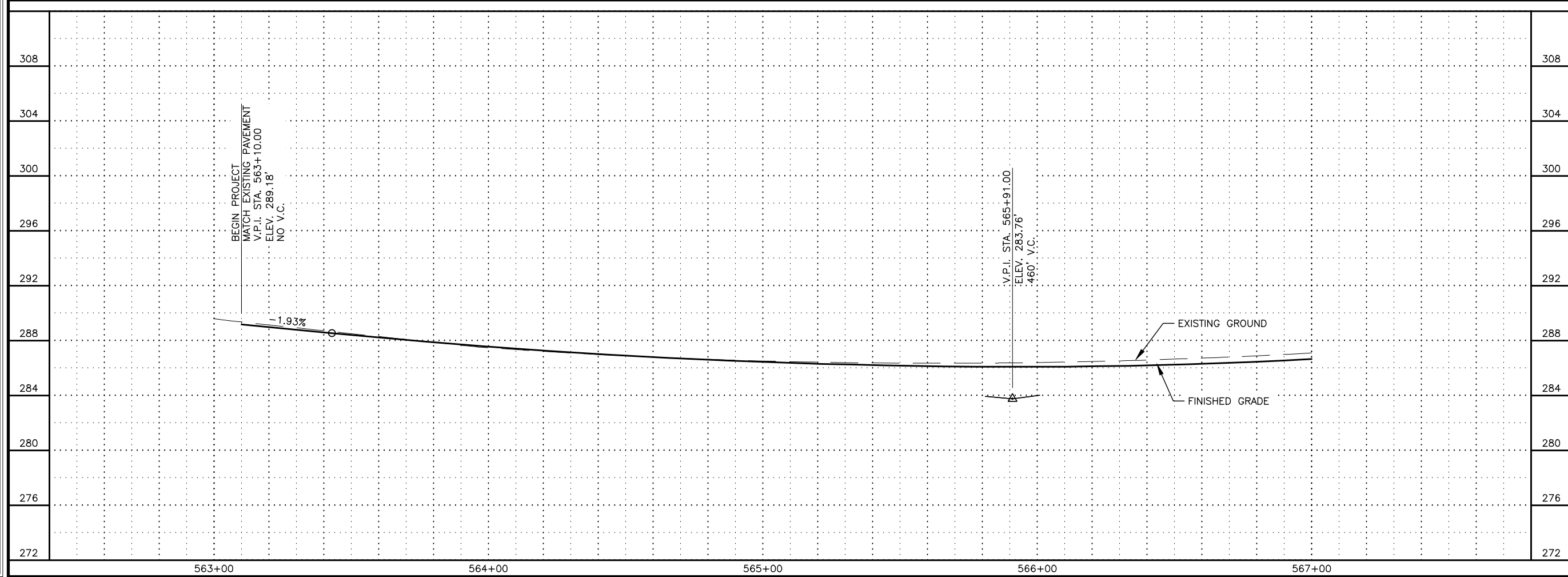
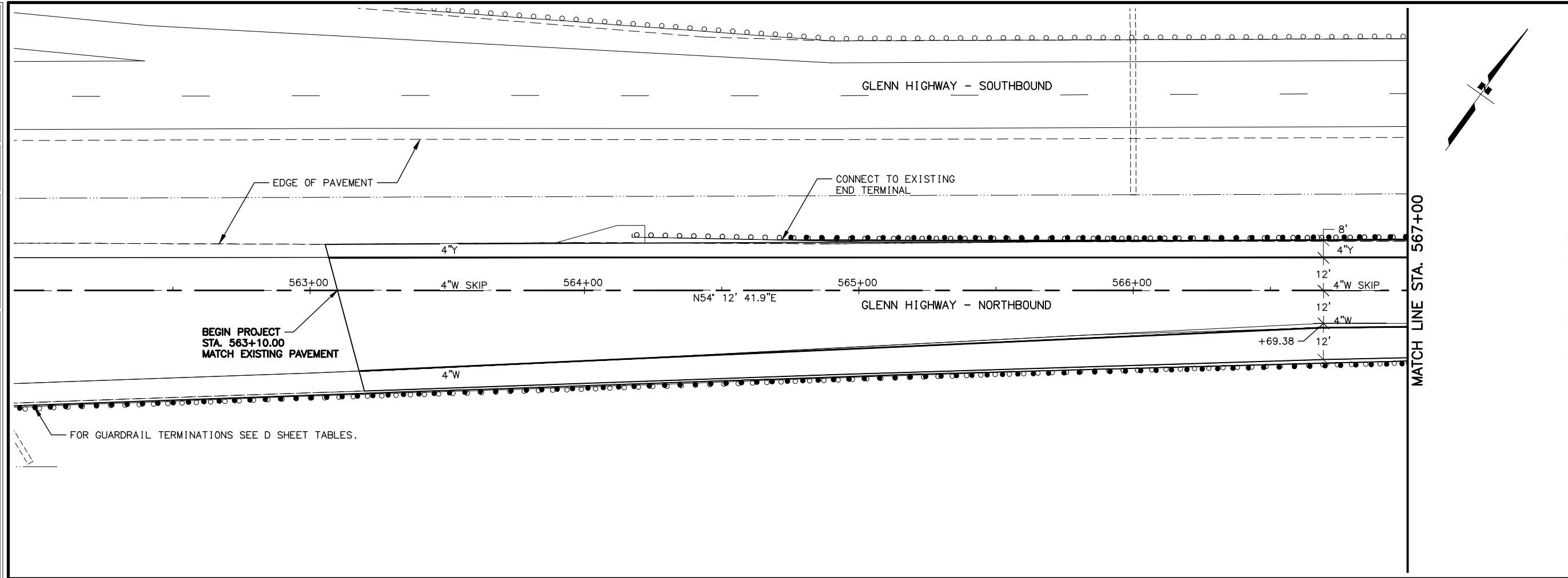


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
DECK PRESERVATION**

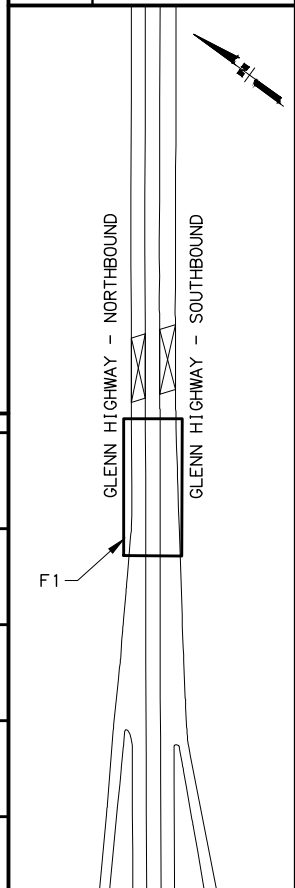
SUMMARY TABLES

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST., SUITE 201,
ANCHORAGE, AK 99503
(907)272-5451
CERT. OF AUTHORITY NO. AECC391

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STATE	YEAR
ALASKA	2024
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NO.	REVISION
DATE	
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DATE	
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DATE	

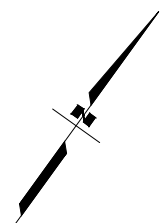
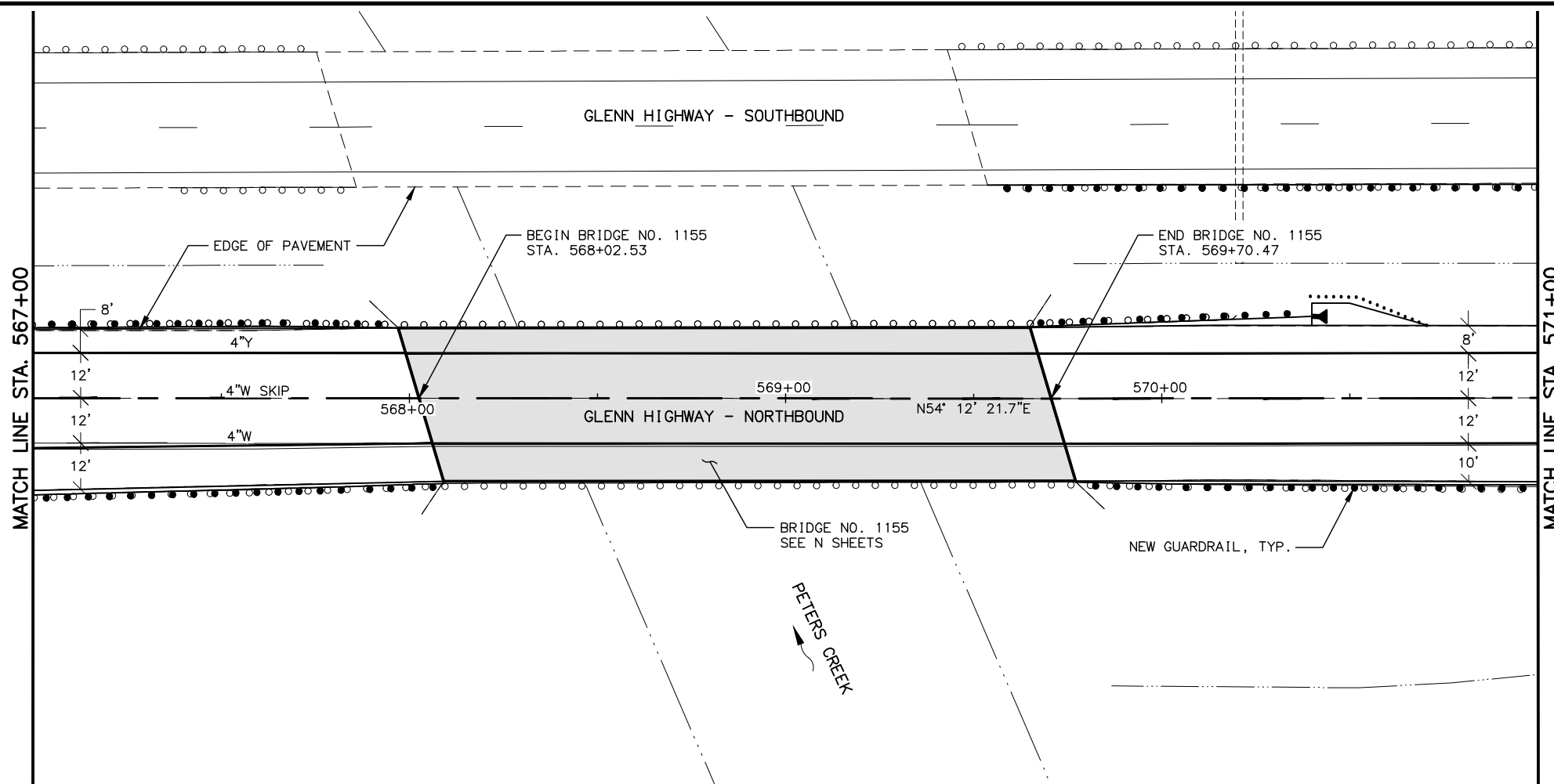


STATE OF ALASKA
 49th
 CERTIFICATION
 SUSAN ACHESON
 CE-11319
 REGISTERED PROFESSIONAL ENGINEER

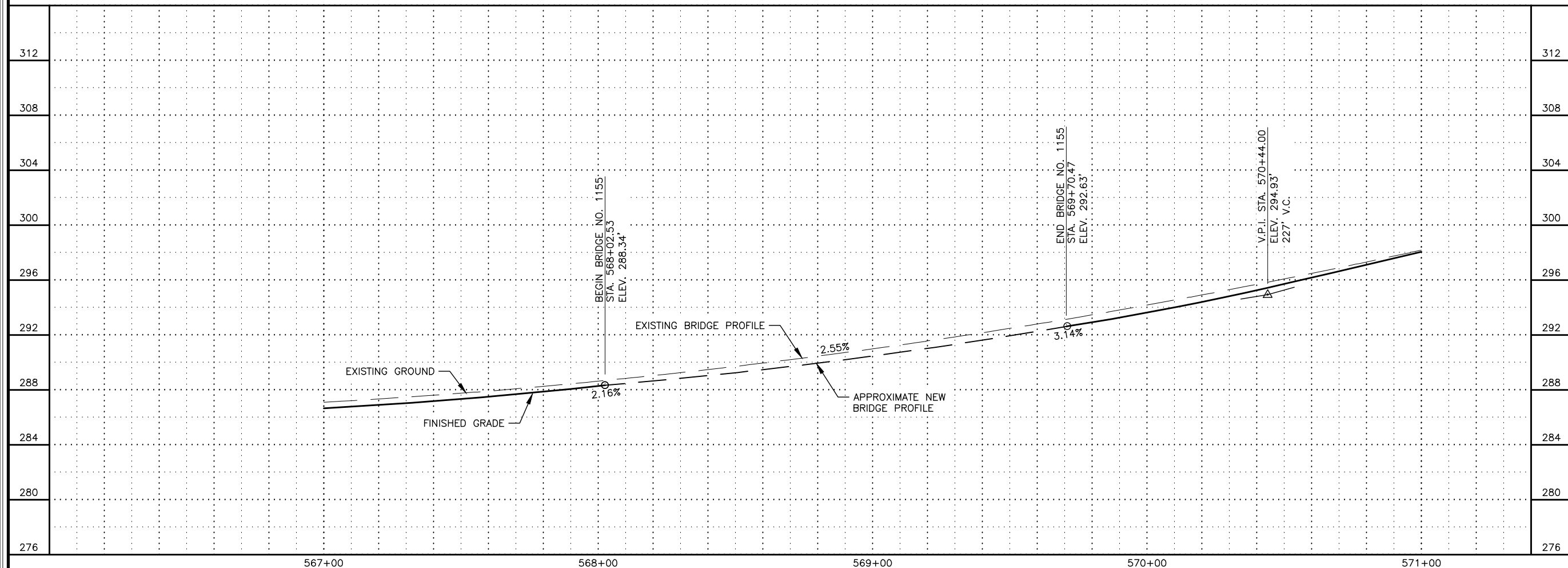
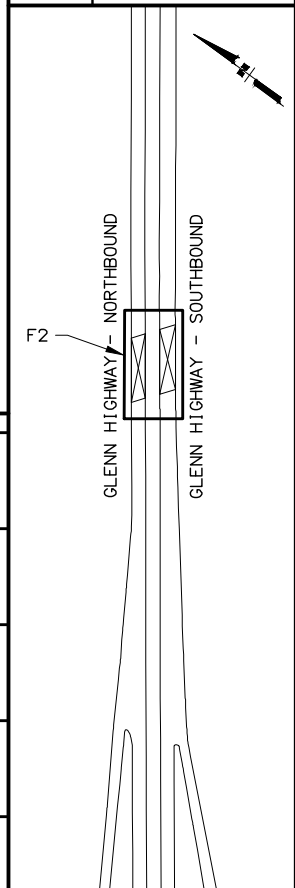
PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 PETERS CREEK BRIDGE
 PLAN AND PROFILE
 BOP TO STA. 567+00

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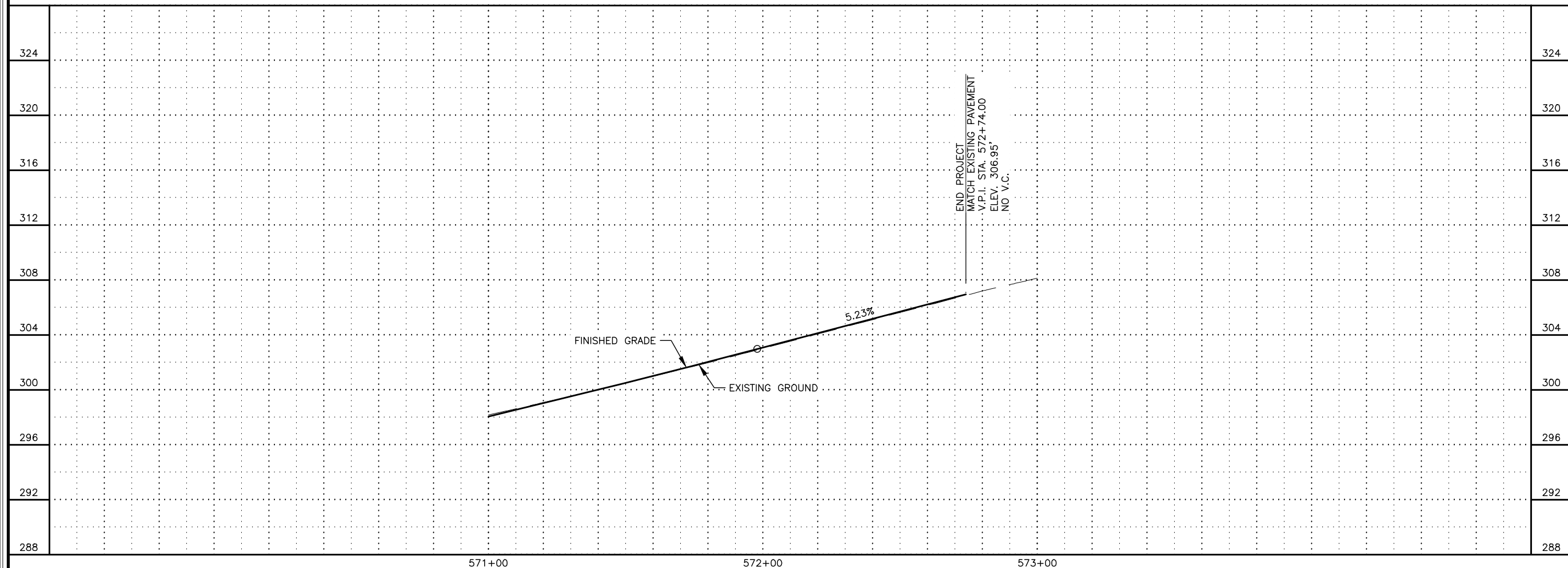
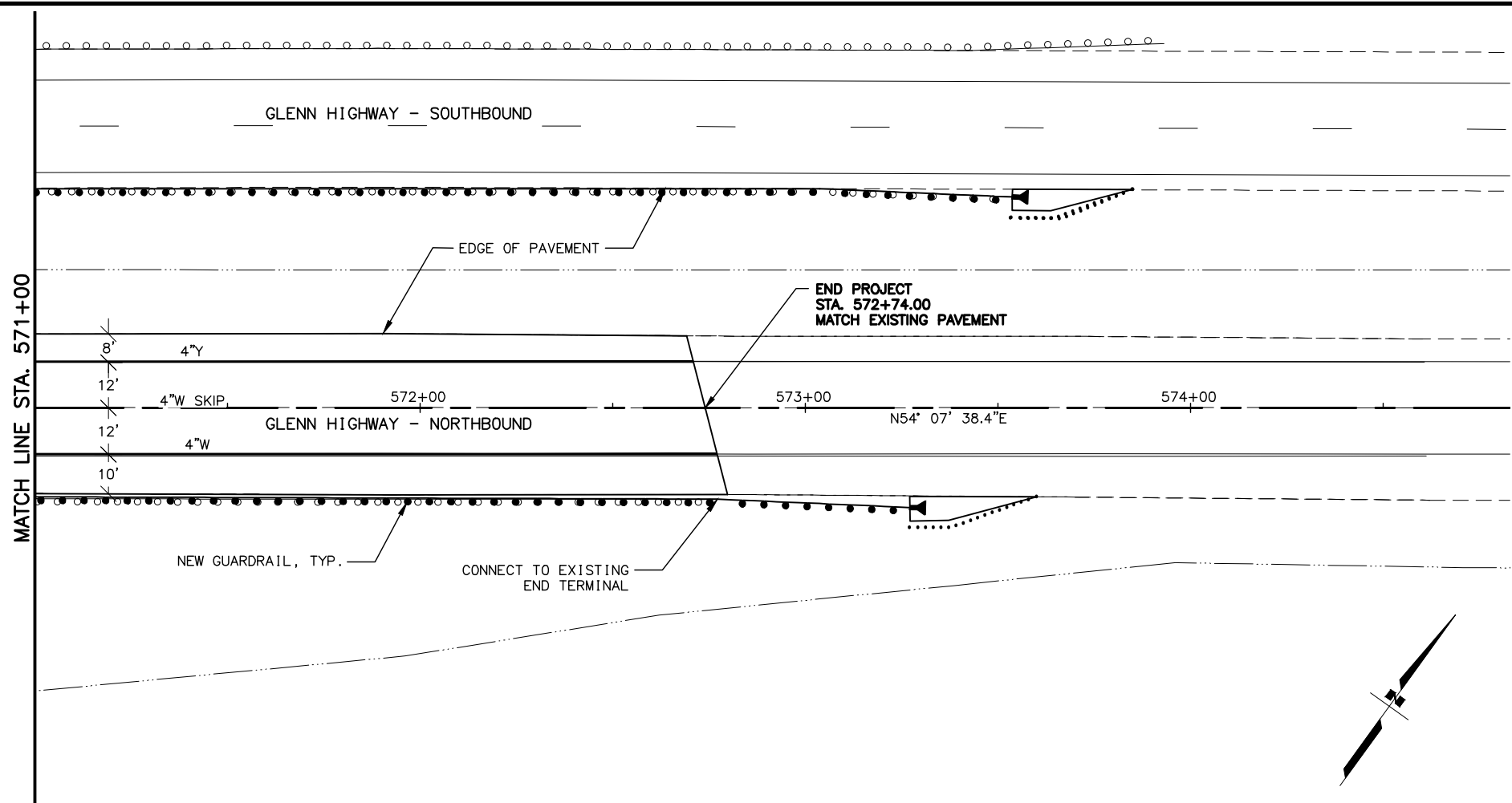


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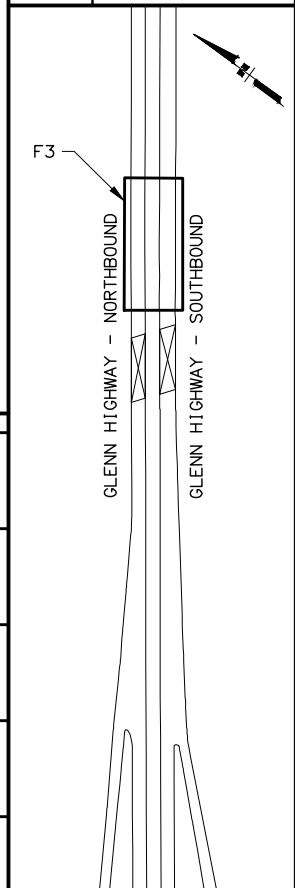


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
**PETERS CREEK BRIDGE
 PLAN AND PROFILE
 STA. 567+00 TO STA.
 571+00**

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STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001685/ CFHWY00523	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



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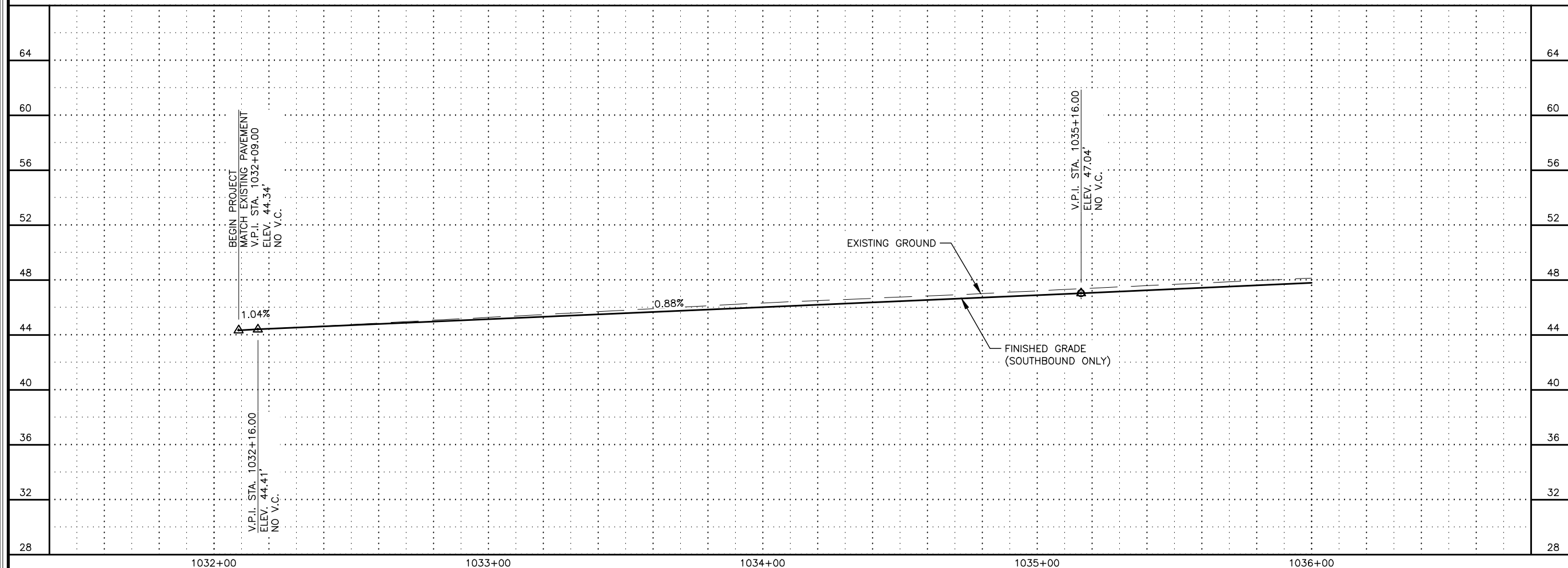
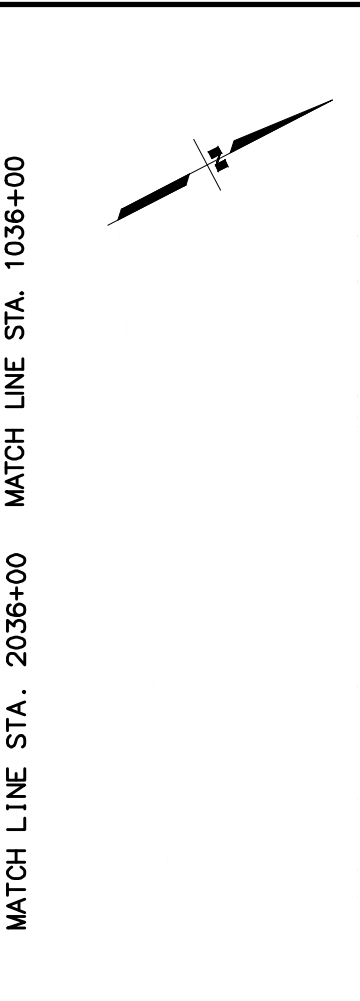
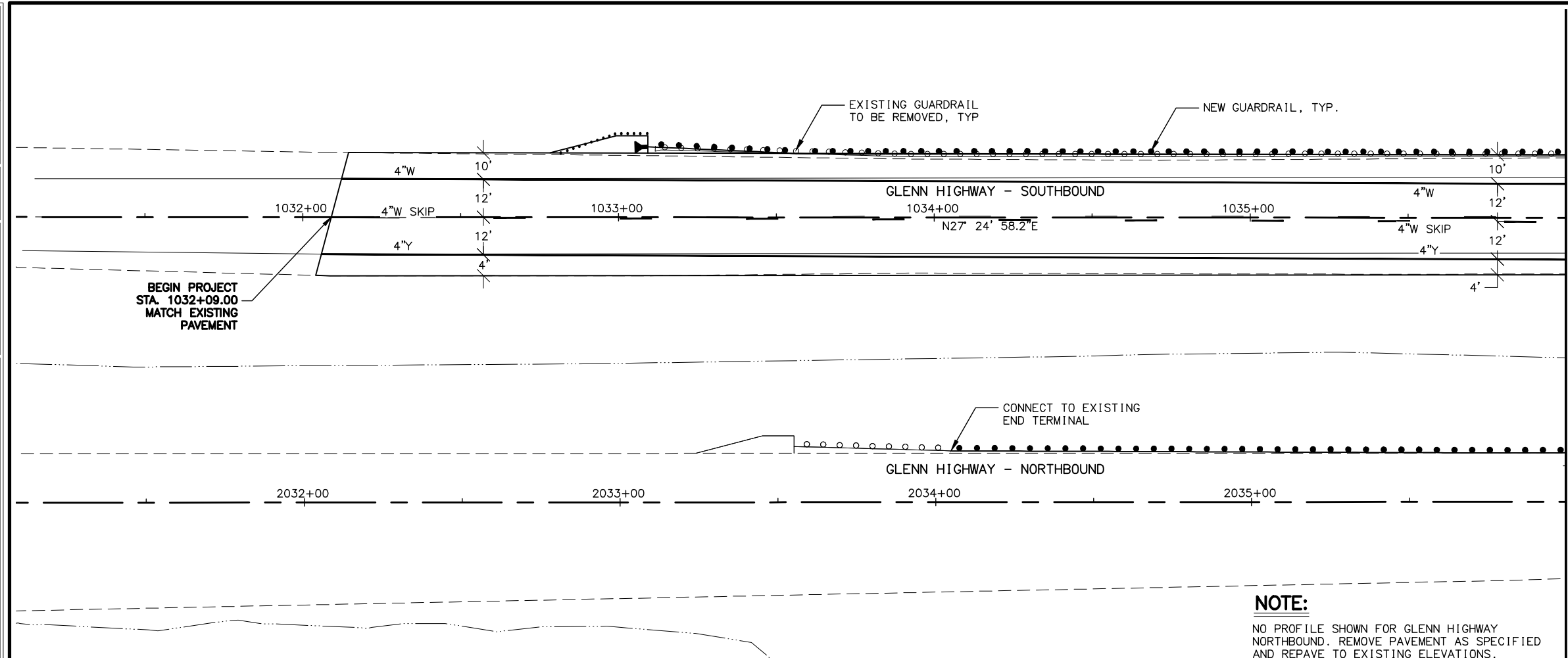
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
**PETERS CREEK BRIDGE
 PLAN AND PROFILE
 STA. 571+00 TO EOP**

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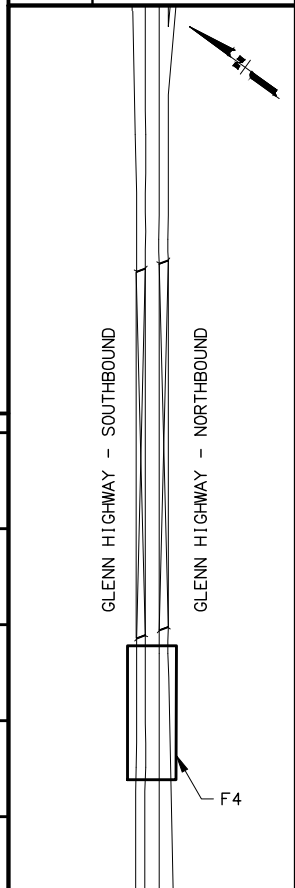
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SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001685/ CFHWY00523	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
 49th
 CERTIFICATION
 SUSAN ACHESON
 CE-11319
 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
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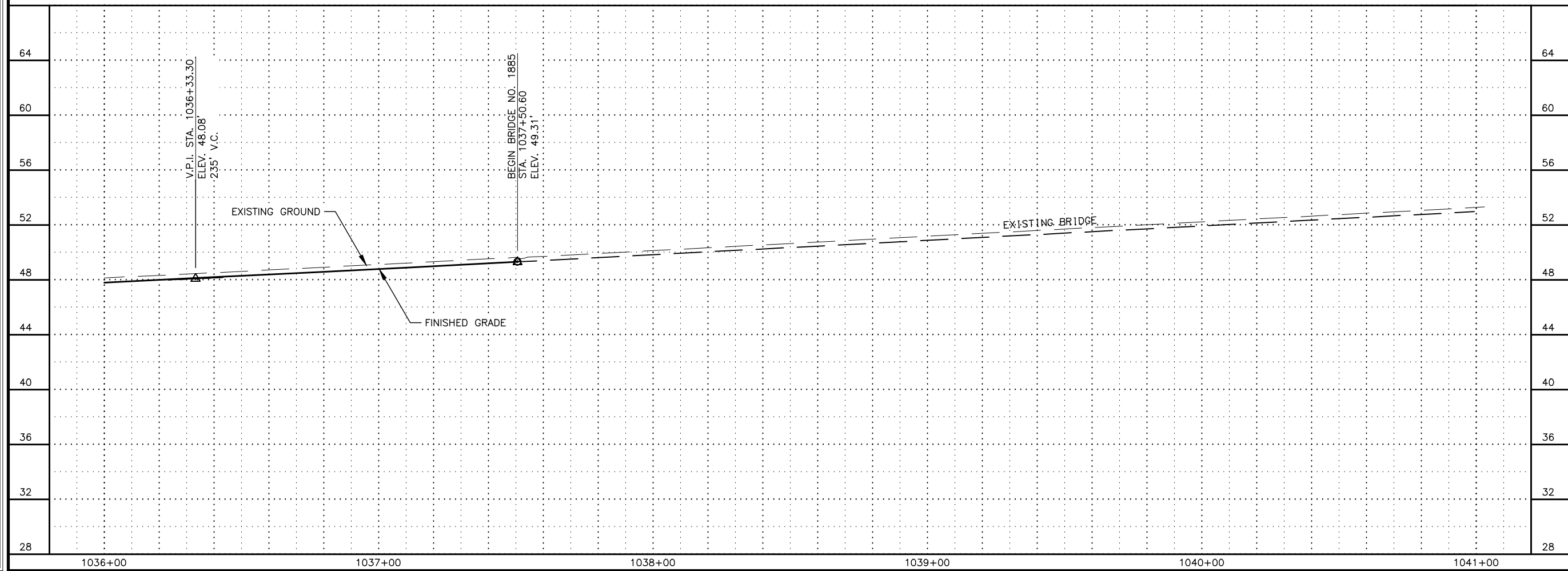
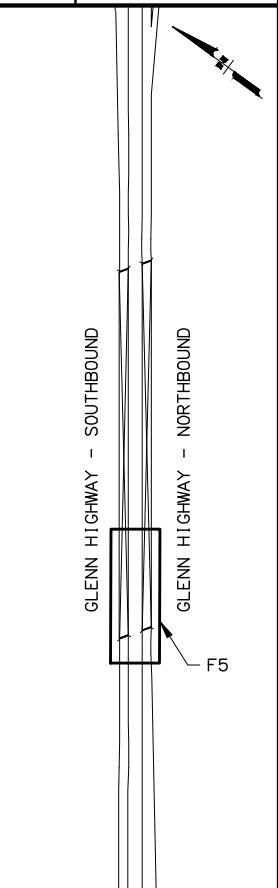
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

GLENN HIGHWAY BRIDGE
 DECK PRESERVATION

KNIK RIVER BRIDGES PLAN
 AND PROFILE
 BOP TO STA. 1036+00
 STA. 2031+00 TO 2036+00

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SHEET NO.	TOTAL SHEETS
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NO.	REVISION
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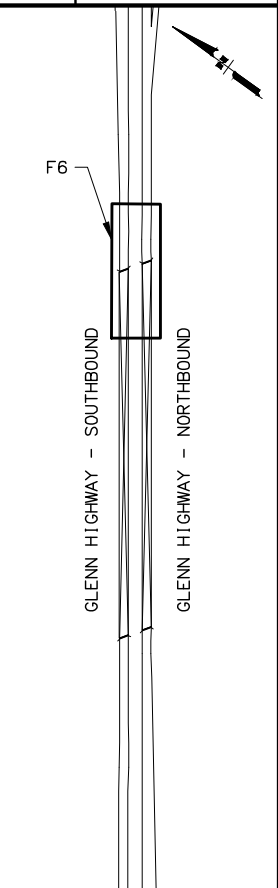
STATE OF ALASKA
CERTIFICATION
 SUSAN ACHESON
 CE-11319
 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
 KNIK RIVER BRIDGES PLAN AND
 PROFILE
 STA. 1036+00 TO 1041+00
 STA. 2036+00 TO 2041+00

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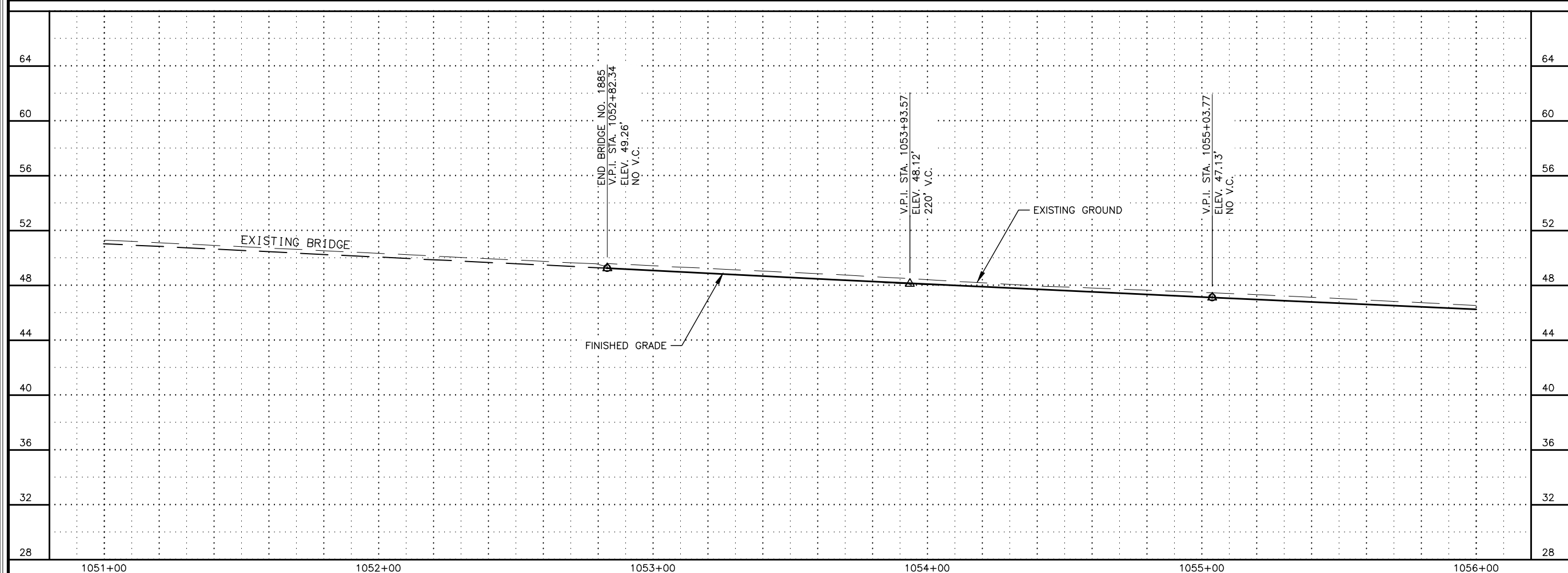
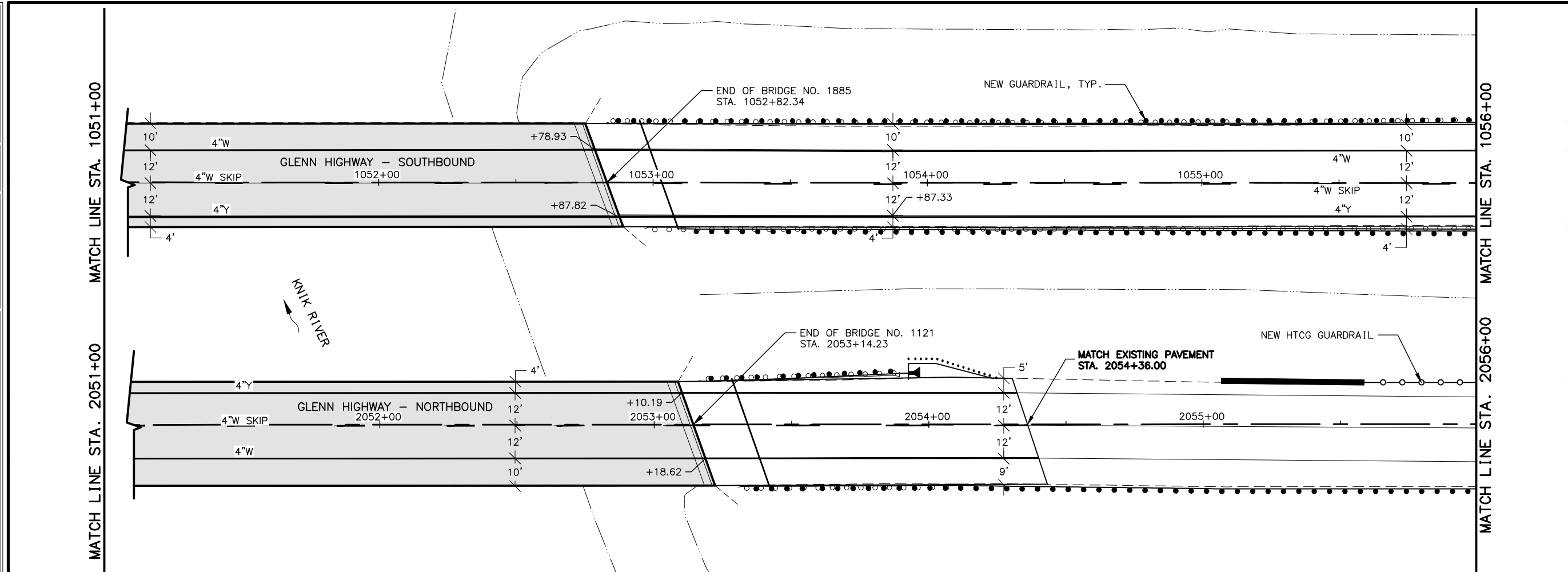
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ALASKA	2024
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NO.	REVISION
DATE	
NO.	REVISION
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STATE OF ALASKA
 49th ANNUAL
CERTIFICATION
 SUSAN ACHESON
 CE-11319
 REGISTERED PROFESSIONAL ENGINEER

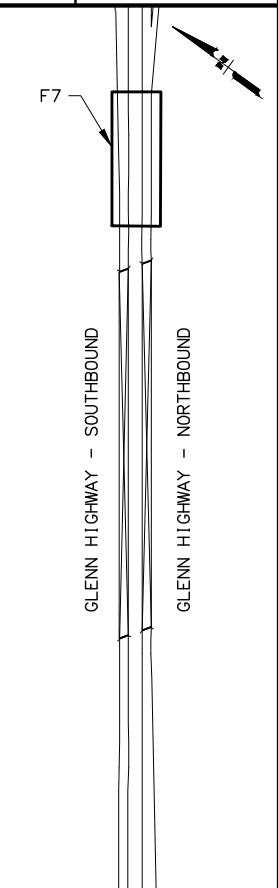
PLANS DEVELOPED BY:
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
 KNIK RIVER BRIDGES PLAN AND
 PROFILE
 STA. 1051+00 TO 1056+00
 STA. 2051+00 TO EOP



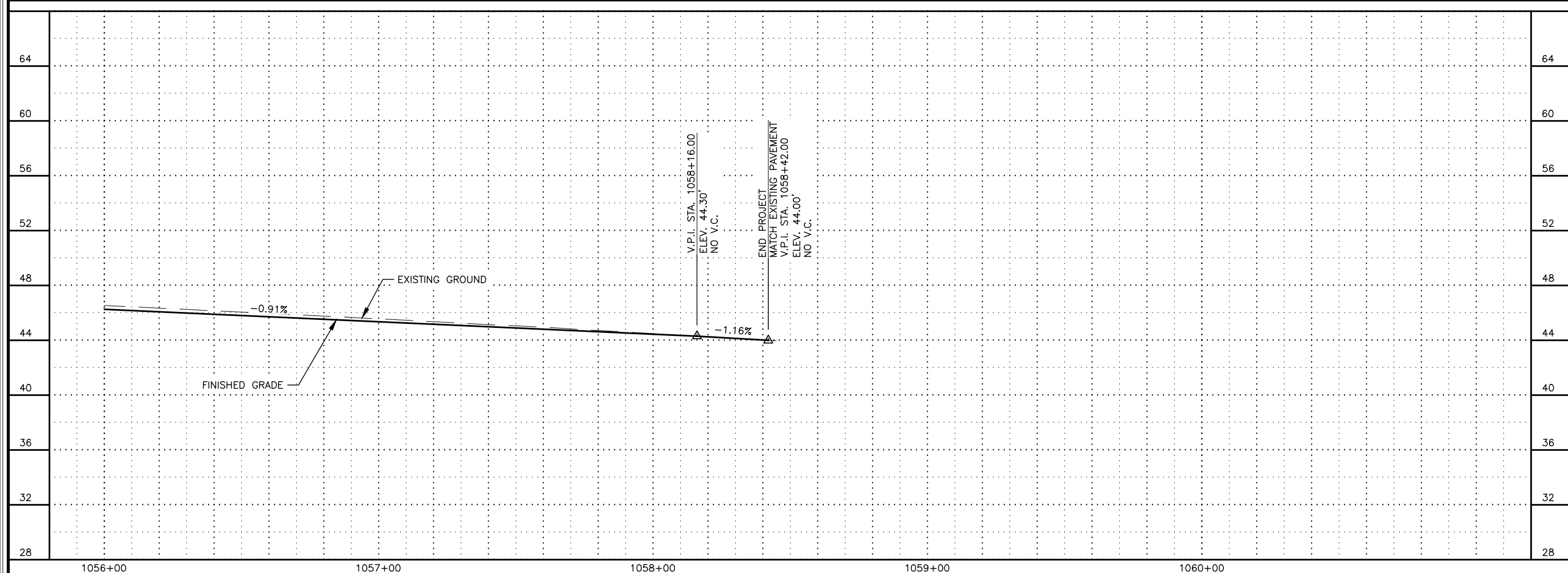
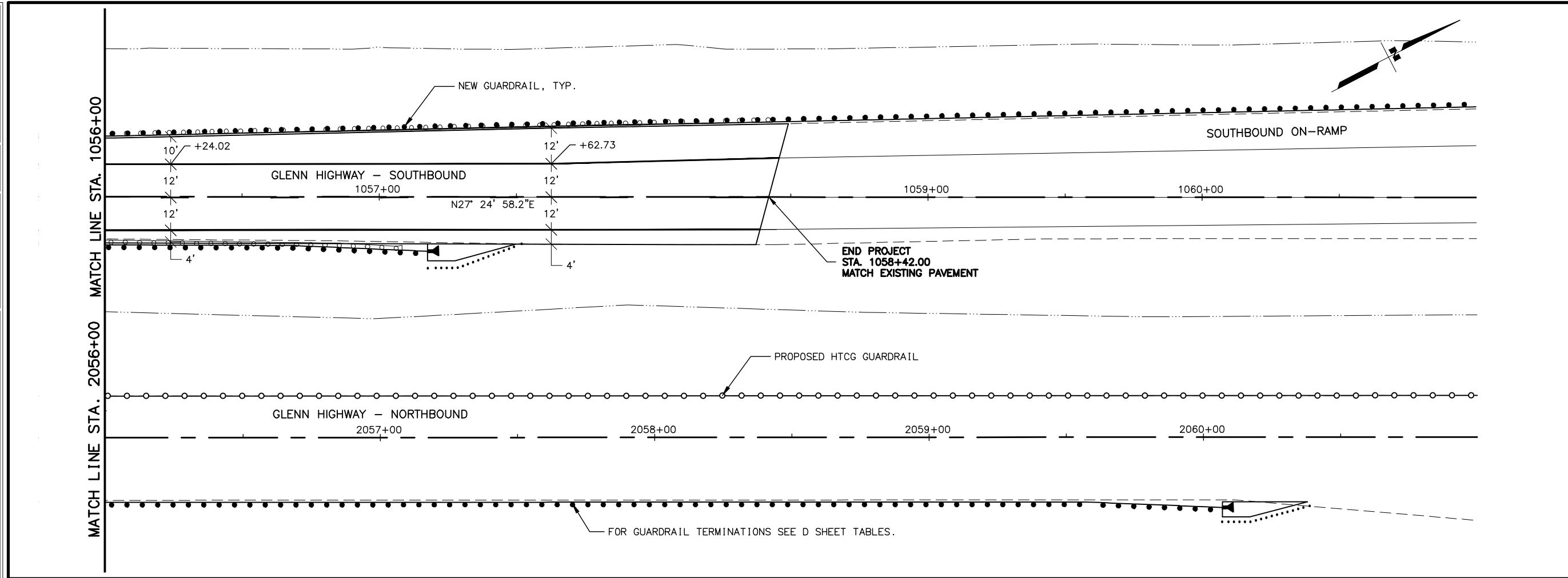
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SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001685/ CFHWY00523	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
 KNIK RIVER BRIDGES
 PLAN AND PROFILE
 STA. 1056+00 TO EOP
 STA. 2056+00 TO EOP



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	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 SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON ALASKA STANDARD PLAN S-30. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
- 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 OR FACE OF CURB WHEN PRESENT.
- 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.

SIGN SUMMARY							
SHEET NO.	POST NO.	STATION	OFFSET (FEET)	TYPE	LEGEND	SIGN FACES	REMARKS
F8	1	1032+64.7	RT	R4-3		NE/SW	BACK TO BACK SIGN, REMOVE AND RELOCATE SIGN AND POST IN SAME LOCATION.
				R4-3			

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
INTX L	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



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

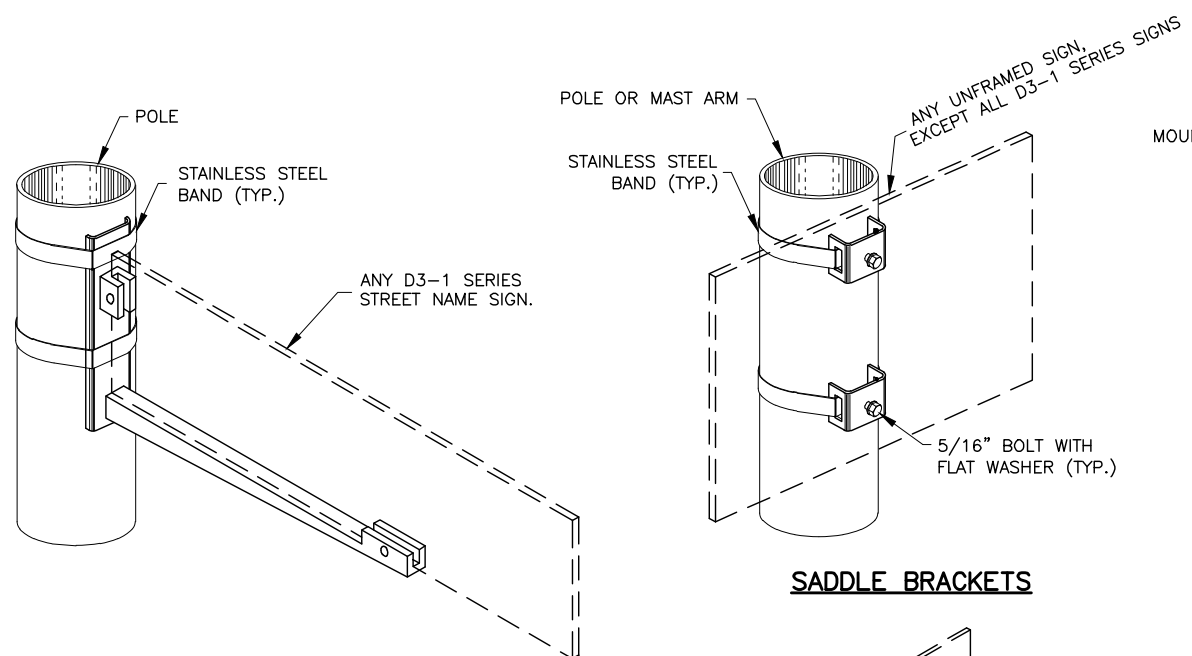
**GLENN HIGHWAY BRIDGE
DECK PRESERVATION**

**TRAFFIC LEGEND, NOTES,
AND SIGN SUMMARY**

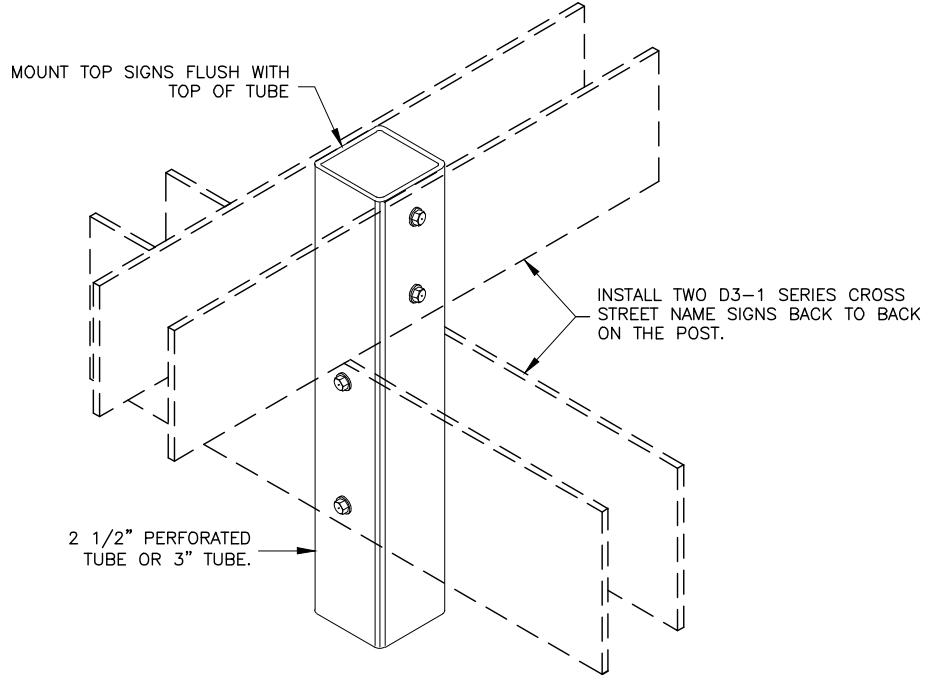
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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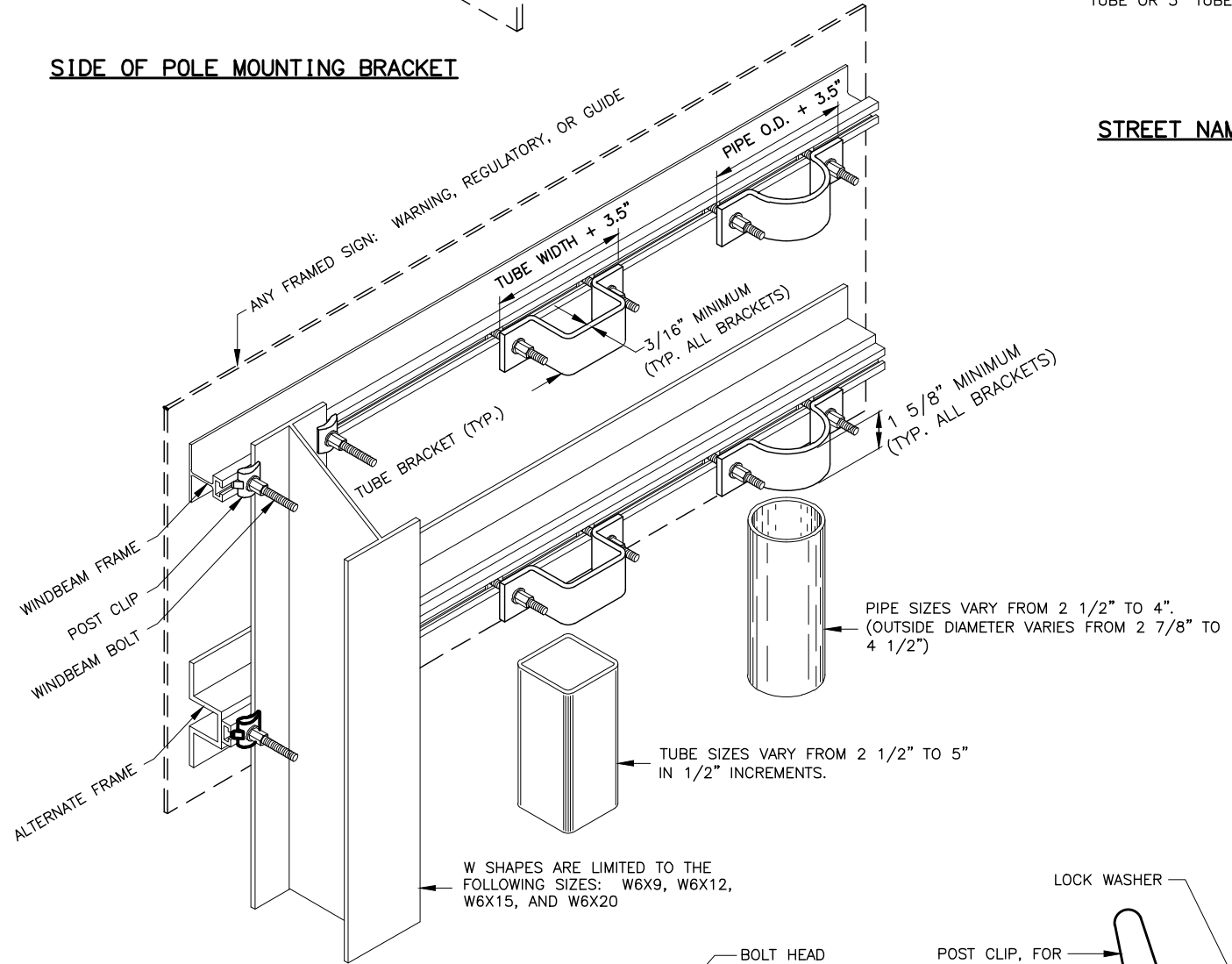


SADDLE BRACKETS

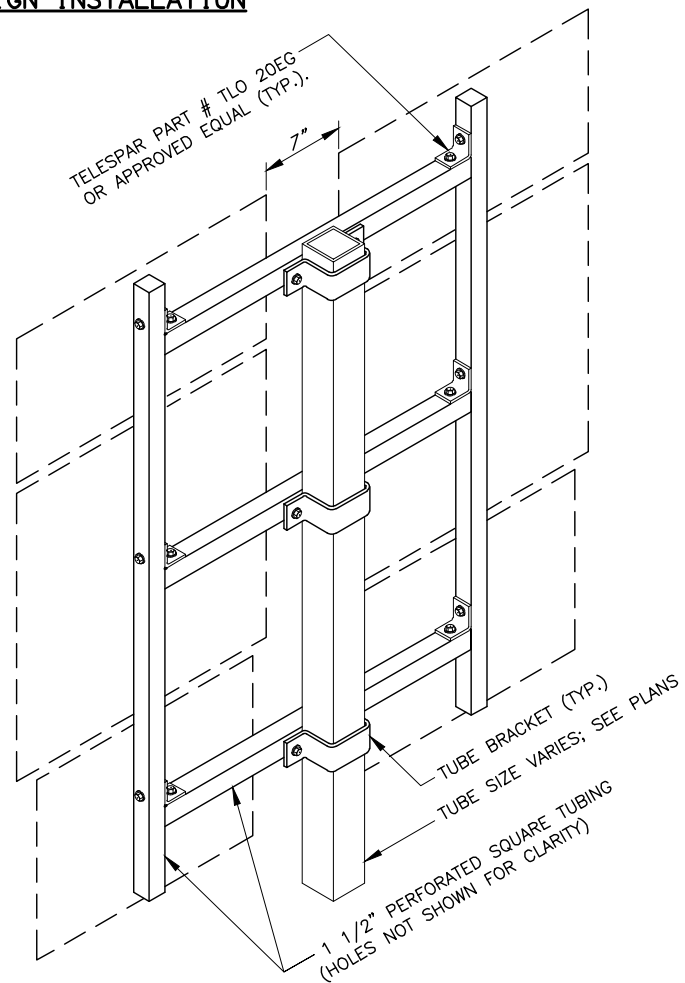


STREET NAME SIGN INSTALLATION

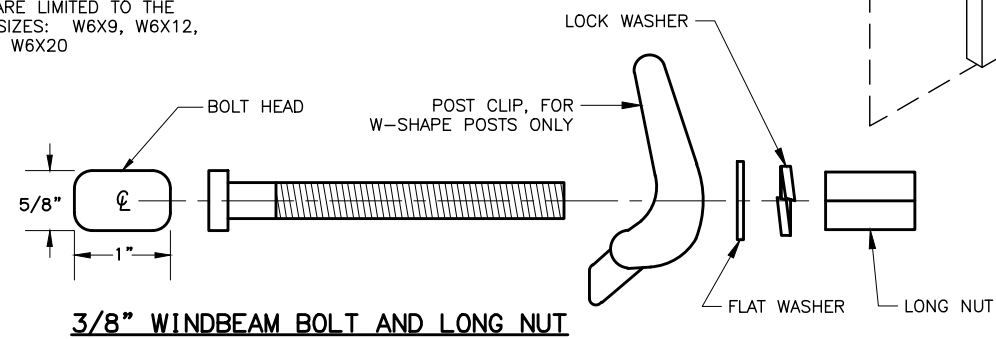
SIDE OF POLE MOUNTING BRACKET



FRAMED SIGN ATTACHMENT BRACKETS



ROUTE MARKER TREE



3/8\"/>

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.



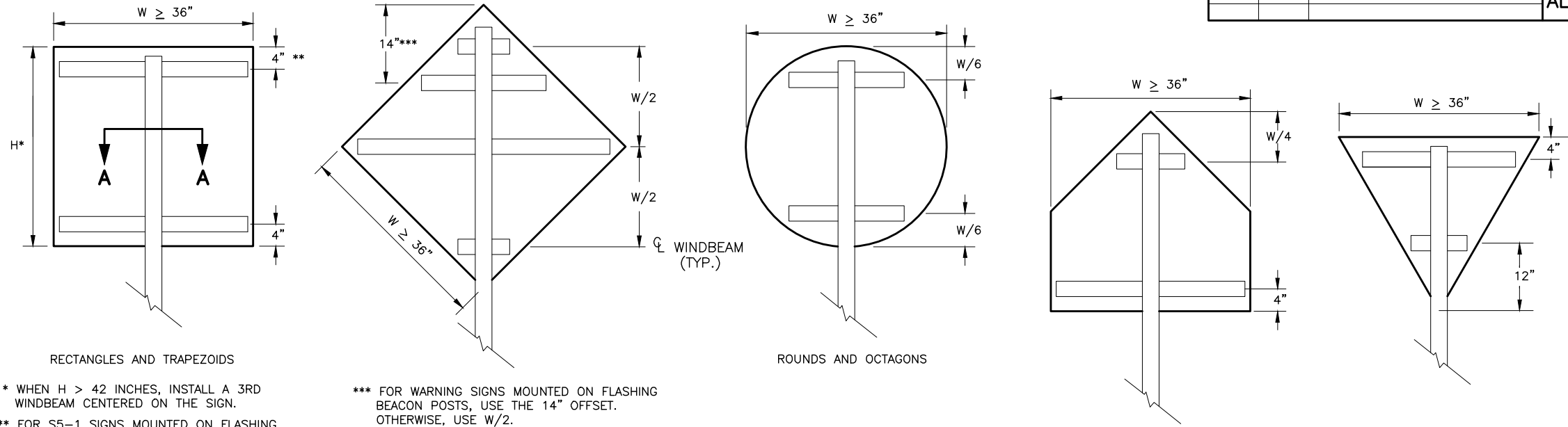
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

SIGN ATTACHMENT DETAILS

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST., SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	H3	H3



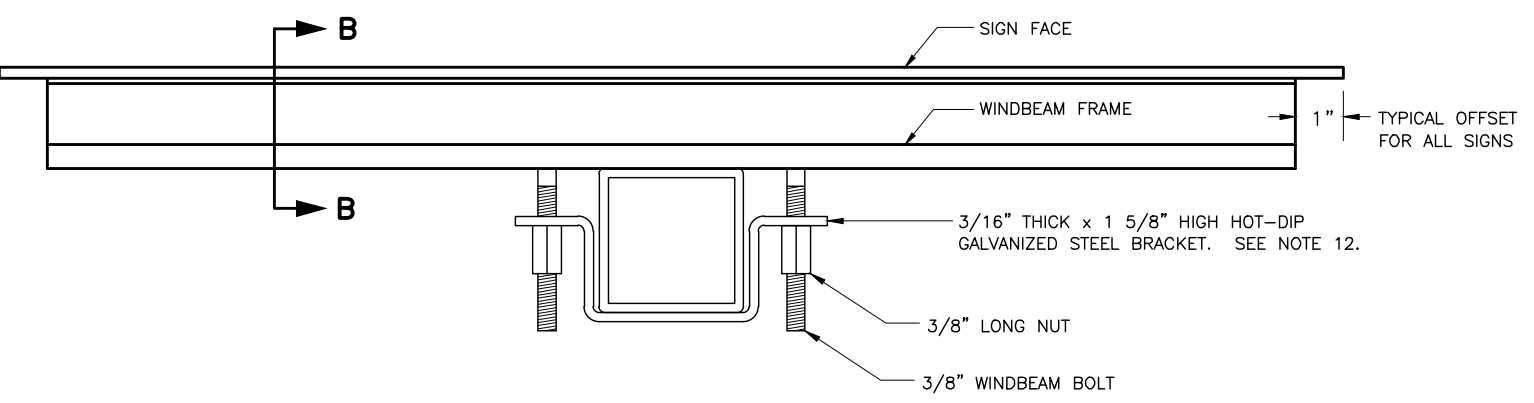
RECTANGLES AND TRAPEZOIDS

* WHEN H > 42 INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.

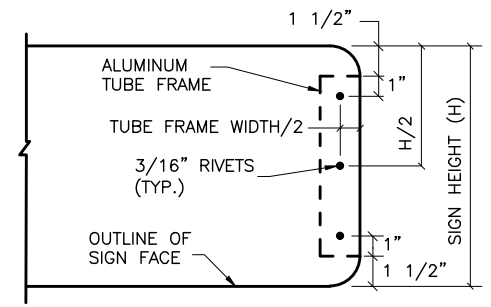
** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".

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

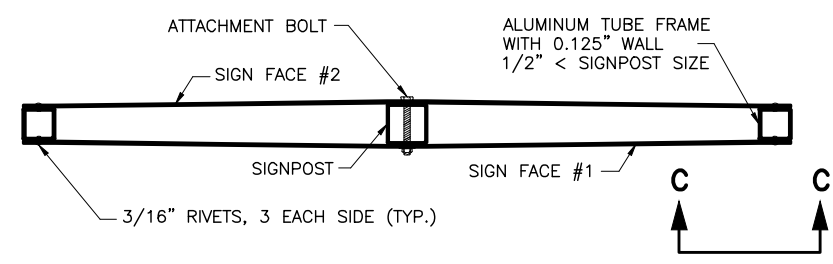
WINDBEAM LOCATIONS FOR EACH SIGN SHAPE
ELEVATION VIEW



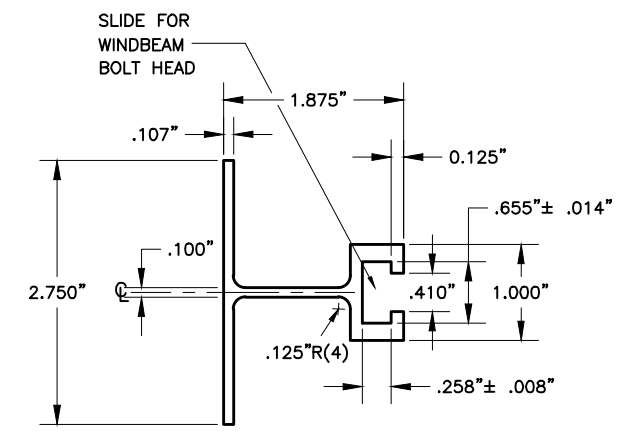
SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM



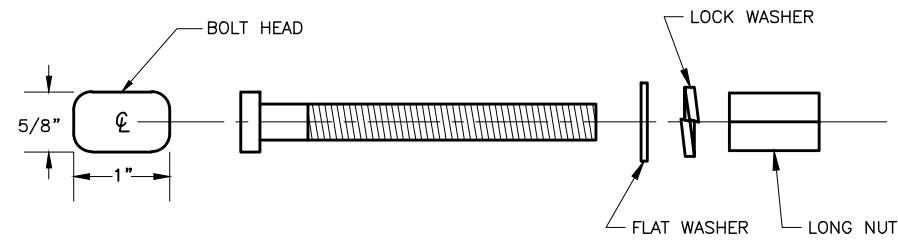
VIEW C - C



D3-1 STREET NAME SIGN FRAMING DETAIL
PLAN VIEW



SECTION B - B WINDBEAM CROSS SECTION



3/8" WINDBEAM BOLT AND LONG NUT

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.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
DECK PRESERVATION**

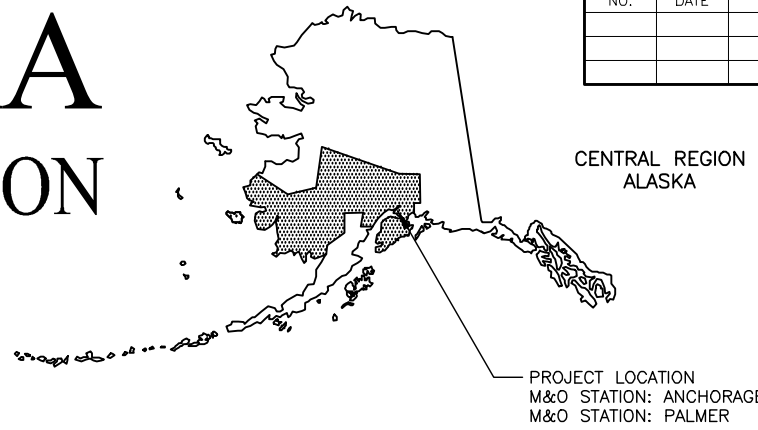
**LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS**

PLANS DEVELOPED BY:
LOUNSBURY & ASSOCIATES INC.
3230 C ST., SUITE 201,
ANCHORAGE, AK 99503
(907)272-5451
CERT. OF AUTHORITY NO. AECC391

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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES



NO.	DATE	REVISION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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ROUTE ID	10600001000	MILEPOINT	28.725 - 29.015	
LATITUDE	61.481283	LONGITUDE	-149.252768	
ROUTE ID	1060000D000	MILEPOINT	5.301 - 5.591	
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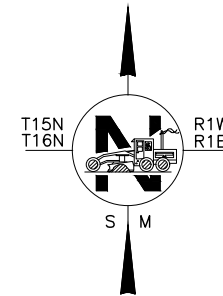
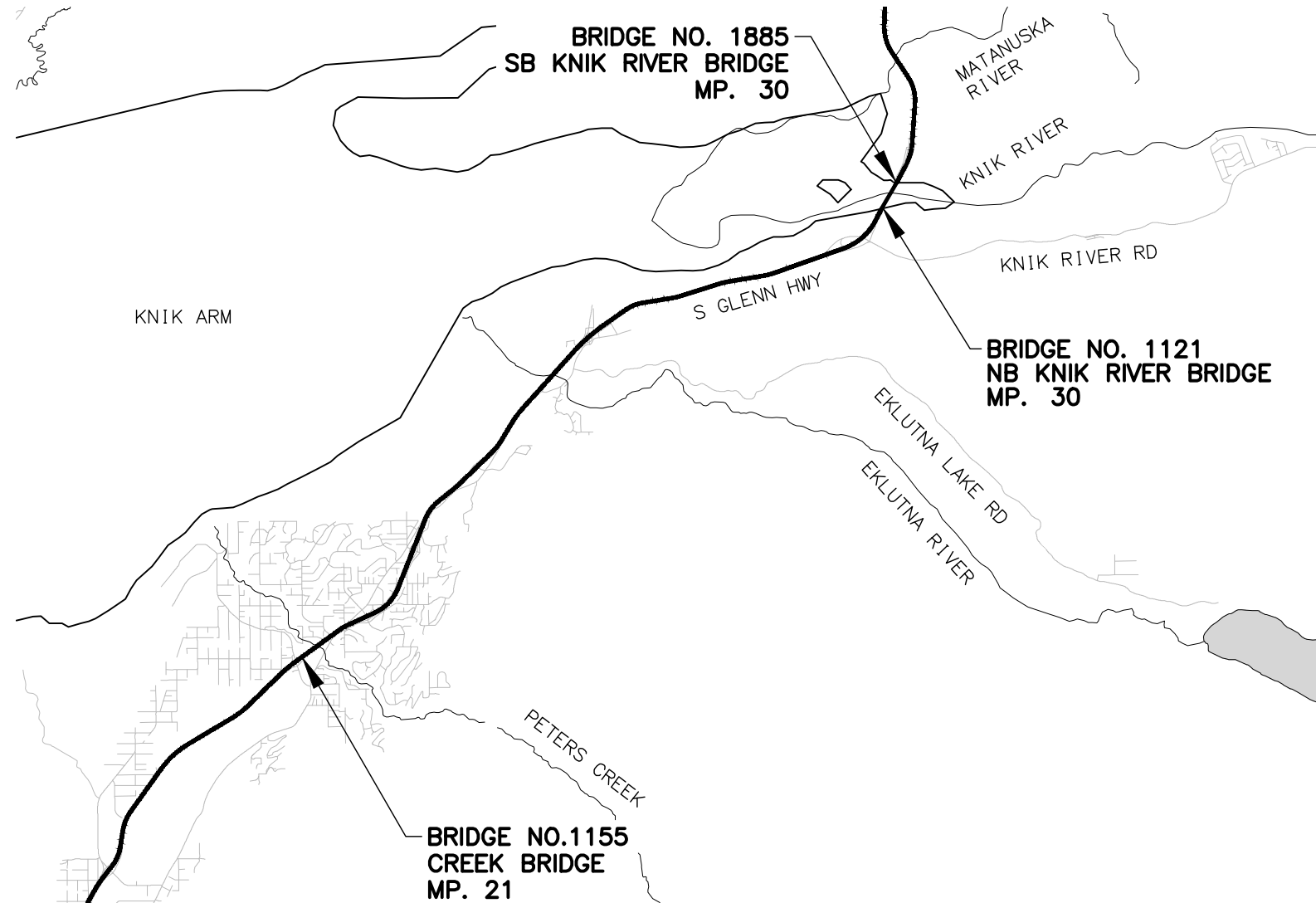
PROPOSED HIGHWAY PROJECT

GLENN HIGHWAY BRIDGE DECK PRESERVATION

PROJECT NO. 0001685/CFHWY00523

TRAFFIC CONTROL

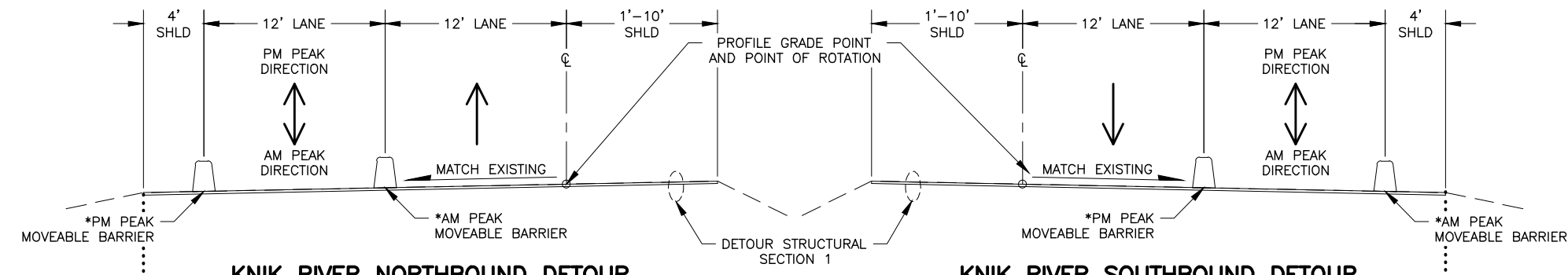
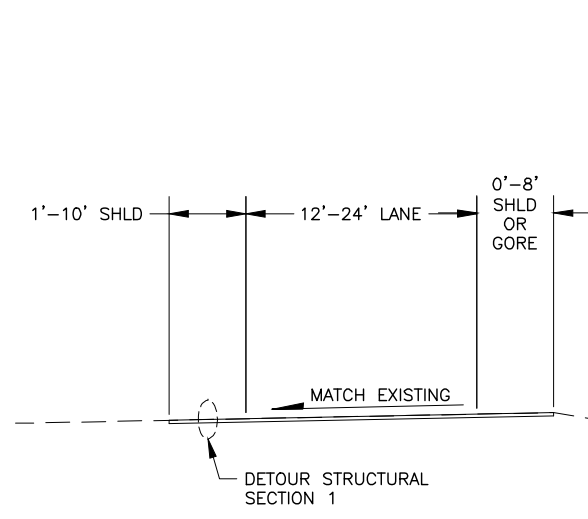
INDEX	
SHEET	DESCRIPTION
J1	TITLE SHEET
J2-J3	DETOUR TYPICAL SECTIONS
J4-J9	DETOUR OVERVIEW
J10-J13	KNIK RIVER BRIDGE NB DETOUR PLAN SHEETS
J14-J17	KNIK RIVER BRIDGE SB DETOUR PLAN SHEETS
J18-J20	PETERS CREEK BRIDGE DETOUR PLAN SHEETS
J21	PERMANENT CONSTRUCTION SIGNS LAYOUT
J22	TRAFFIC CONTROL DEVICES FOR ROADSIDES
J23	PERMANENT CONSTRUCTION SIGNS & METAL FLUME DOWNDRAIN



CERTIFICATION
MARCH 2024

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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KNIK RIVER NORTHBOUND DETOUR

"KNIK NORTHBOUND DETOUR" STA. BOP TO 108+49.0
 "KNIK NORTHBOUND DETOUR" STA. 110+31.5 TO 116+92.0
 "KNIK NORTHBOUND DETOUR" STA. 132+24.0 TO 139+00.0
 "KNIK NORTHBOUND DETOUR" STA. 141+45.5 TO EOP

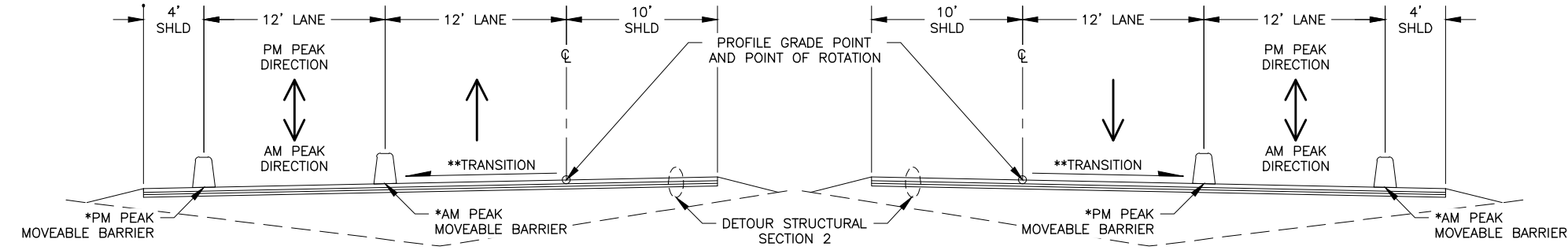
KNIK RIVER SOUTHBOUND DETOUR

"KNIK SOUTHBOUND DETOUR" STA. BOP TO 206+05.5
 "KNIK SOUTHBOUND DETOUR" STA. 208+61.5 TO 215+19.5
 "KNIK SOUTHBOUND DETOUR" STA. 230+51.5 TO 237+19.0
 "KNIK SOUTHBOUND DETOUR" STA. 239+83.5 TO EOP

SEE KNIK RIVER MAINLINE TIE-IN

KNIK RIVER MAINLINE TIE-IN

"KNIK NORTHBOUND DETOUR" STA. 108+78.0 TO 111+83.5
 "KNIK NORTHBOUND DETOUR" STA. 137+19.0 TO 144+32.5
 "KNIK SOUTHBOUND DETOUR" STA. 206+67.4 TO 209+58.3
 "KNIK SOUTHBOUND DETOUR" STA. 236+09.5 TO 246+19.8



KNIK RIVER NORTHBOUND DETOUR CROSSOVER

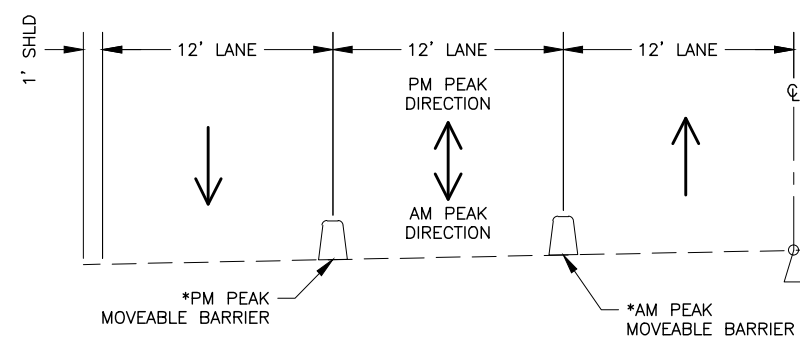
"KNIK NORTHBOUND DETOUR" STA. 108+49.0 TO 110+31.5
 "KNIK NORTHBOUND DETOUR" STA. 139+00.0 TO 141+45.5

KNIK RIVER SOUTHBOUND DETOUR CROSSOVER

"KNIK SOUTHBOUND DETOUR" STA. 206+05.5 TO 208+61.5
 "KNIK SOUTHBOUND DETOUR" STA. 237+19.0 TO 239+83.5

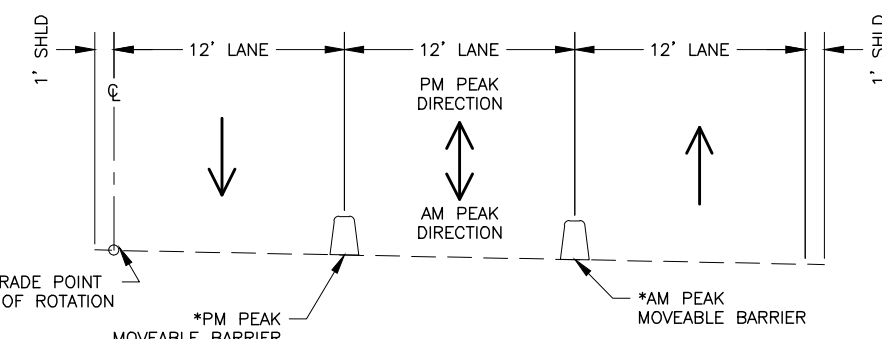
GENERAL NOTES:

1. THE TERM "WORK TASK" AS USED IN THESE TRAFFIC CONTROL DRAWINGS IMPLIES THE FULL WIDTH ROADWAY EMBANKMENT AND FIRST LIFT OF ASPHALT CONCRETE IS COMPLETE. FINAL CONSTRUCTION OF MEDIANS, ASPHALT SURFACE COURSE, AND STRIPING ARE NOT NECESSARILY INCLUDED.
2. WHERE TEMPORARY ROADWAYS EXTEND BEYOND EXISTING ROADWAYS, CONSTRUCT TEMPORARY SECTION WITH DETOUR STRUCTURAL SECTION, UNLESS NOTED OTHERWISE.
3. SUBMIT A DETAILED SCHEDULE FOR WORK TO BE COMPLETED DURING EACH STAGE, TEN DAYS BEFORE BEGINNING ANY WORK.
4. TRAVEL LANES WITHIN THE PROJECT LIMITS SHALL BE FLAGGED WHEN CROSSED BY CONSTRUCTION EQUIPMENT.
5. INSTALL TEMPORARY PORTABLE CONCRETE BARRIERS, TEMPORARY END TERMINALS, AND TAPERED END SECTIONS, OR APPROVED EQUALS IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL OR AS APPROVED BY THE DOT&PF.
6. RESTRIPE TRAFFIC MARKINGS FOR TEMPORARY TRAFFIC.
7. COORDINATE CONSTRUCTION PHASING WITH DOT&PF PERSONNEL AND IN ACCORDANCE WITH THE DOT&PF APPROVED TRAFFIC CONTROL PLAN.
8. TRAFFIC CONTROL PLANS ARE SCHEMATIC IN NATURE. SUPPLY BARRIERS, MARKINGS, AND SIGNAGE FOR TRAFFIC CONTROL OPERATIONS AS REQUIRED BY THE ALASKA TRAFFIC MANUAL STANDARDS AND MUTCD. ALL MATERIALS ARE SUBSIDIARY TO THEIR RESPECTIVE TRAFFIC CONTROL PAY ITEM.
9. REMOVE EXISTING STRIPING WHERE IN CONFLICT WITH TRANSITION LANES. REMOVAL OF EXISTING STRIPING SHALL BE ACCOMPLISHED BY SAND BLASTING OR HYDRO-DEMOLITION. REMOVAL OF EXISTING STRIPING SHALL BE CONSIDERED SUBSIDIARY TO 670 BID ITEMS.
10. TYPE "A" FLASHING WARNING LIGHTS SHALL BE USED TO MARK THE TYPE III BARRICADES, TYPE II BARRICADES, DRUMS, AND ROAD CLOSURE ADVANCED SIGNING AT NIGHT. WHEN BARRICADES OR DRUMS ARE USED FOR CHANNELIZING TRAFFIC, TYPE "C" STEADY BURN WARNING LIGHTS SHALL BE USED.
11. WHERE AGGREGATE BASE COURSE, GRADING D-1 IS ABOVE EXISTING GRADE, PLACE SELECTED MATERIAL, TYPE A FILL.
12. SEE SPECIAL PROVISION SECTION 643-3.08 CONSTRUCTION SEQUENCING FOR MOVEABLE BARRIER TRANSFER TIMES.
13. WHEN THE MOVABLE BARRIER MACHINE IS NOT IN USE, IT MUST BE PARKED OUTSIDE AT THE CLEAR ZONE OR BEHIND THE BARRIER.



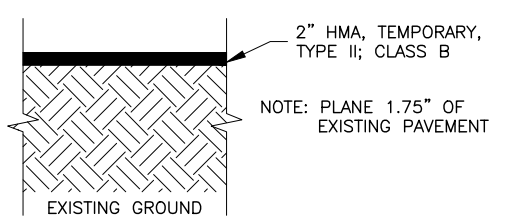
KNIK RIVER BRIDGE 1885

"KNIK NORTHBOUND DETOUR" STA. 116+92.0 TO 132+24.0

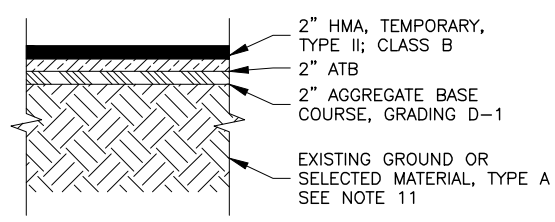


KNIK RIVER BRIDGE 1121

"KNIK SOUTHBOUND DETOUR" STA. 215+19.5 TO 230+51.5



DETOUR STRUCTURAL SECTION 1



DETOUR STRUCTURAL SECTION 2

*SEE J SHEET OVERVIEWS FOR MOVEABLE BARRIER START AND END STATION
 **SEE CROSS SLOPE TRANSITION TABLE

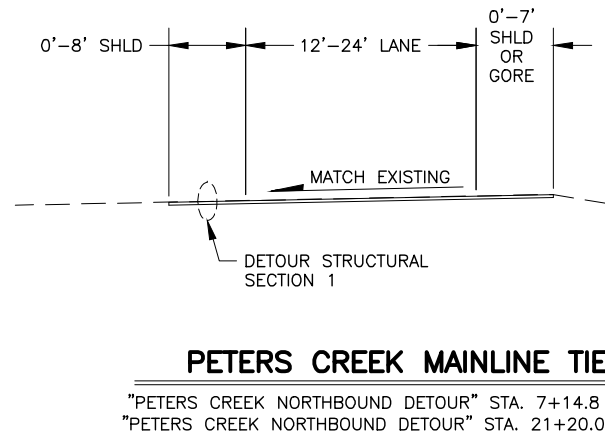
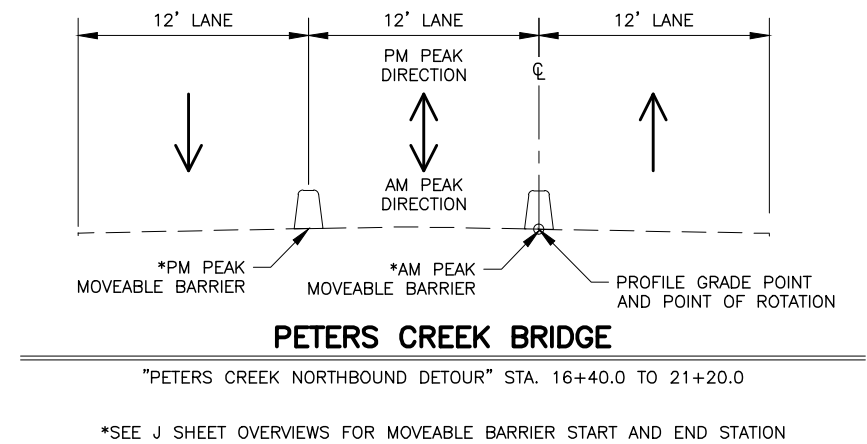
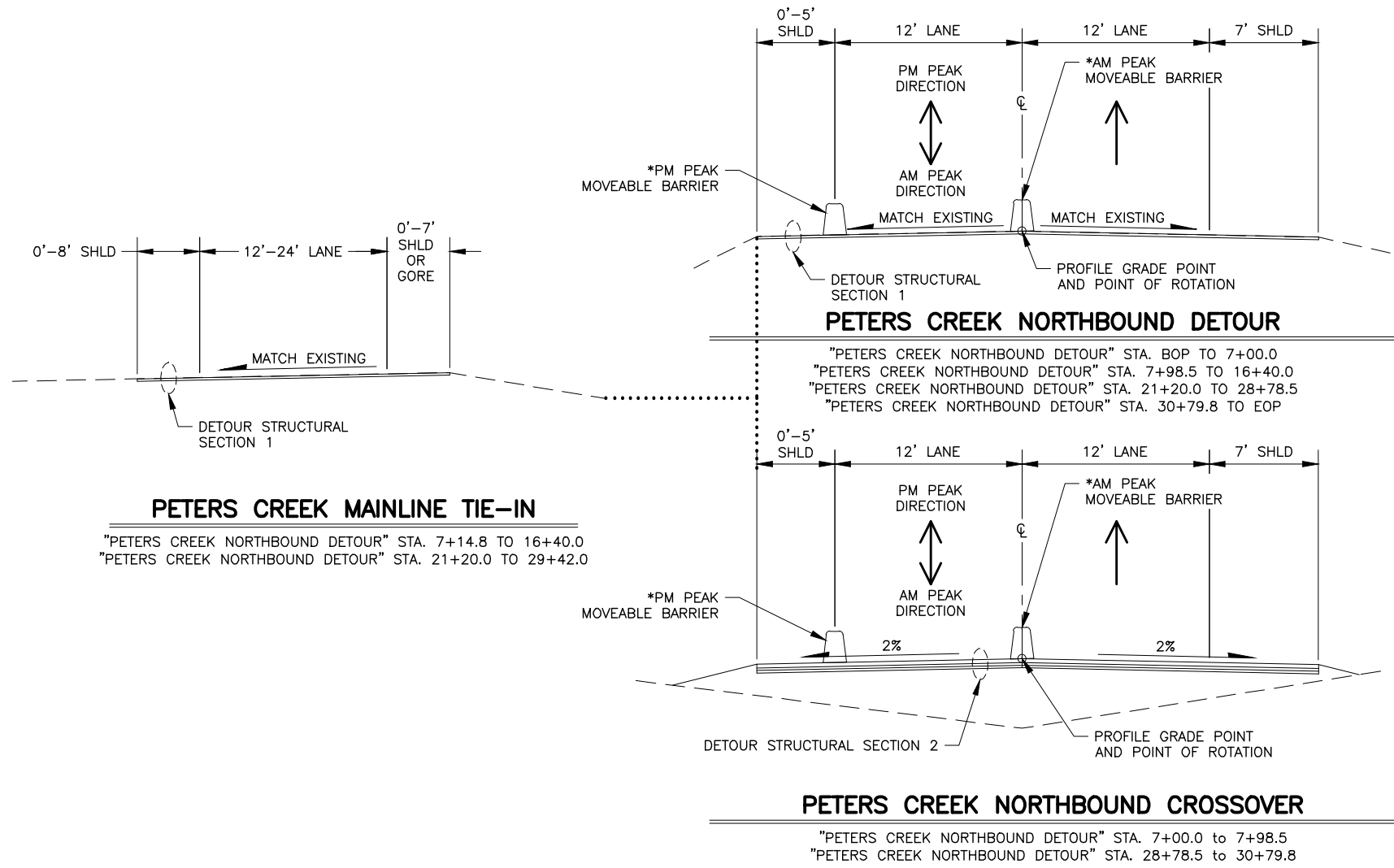


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

DETOUR TYPICAL SECTIONS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	J3	J23

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 DATE: 3/8/2024
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DETOUR CROSS-SLOPE TRANSITION TABLE				
DETOUR	BRIDGE NO.	FROM STATION	TO STATION	CROSS SLOPE
KNIK NORTHBOUND DETOUR	1885	BOP	108+49.0	MATCH EXISTING NORTHBOUND CROSS-SLOPE
KNIK NORTHBOUND DETOUR	1885	108+49.0	110+31.5	TRANSITION FROM EXISTING NORTHBOUND CROSS-SLOPE TO SOUTHBOUND CROSS-SLOPE
KNIK NORTHBOUND DETOUR	1885	110+31.5	116+92.0	MATCH EXISTING SOUTHBOUND CROSS-SLOPE
KNIK NORTHBOUND DETOUR	1885	132+24.0	139+00.0	MATCH EXISTING SOUTHBOUND CROSS-SLOPE
KNIK NORTHBOUND DETOUR	1885	139+00.0	141+45.5	TRANSITION FROM EXISTING SOUTHBOUND CROSS-SLOPE TO NORTHBOUND CROSS-SLOPE
KNIK NORTHBOUND DETOUR	1885	141+45.5	EOP	MATCH EXISTING NORTHBOUND CROSS-SLOPE
KNIK SOUTHBOUND DETOUR	1121	BOP	206+05.5	MATCH EXISTING SOUTHBOUND CROSS-SLOPE
KNIK SOUTHBOUND DETOUR	1121	206+05.5	208+61.5	TRANSITION FROM EXISTING SOUTHBOUND CROSS-SLOPE TO NORTHBOUND CROSS-SLOPE
KNIK SOUTHBOUND DETOUR	1121	208+61.5	215+19.5	MATCH EXISTING NORTHBOUND CROSS-SLOPE
KNIK SOUTHBOUND DETOUR	1121	230+51.5	237+19.0	MATCH EXISTING NORTHBOUND CROSS-SLOPE
KNIK SOUTHBOUND DETOUR	1121	237+19.0	239+83.5	TRANSITION FROM EXISTING NORTHBOUND CROSS-SLOPE TO SOUTHBOUND CROSS-SLOPE
KNIK SOUTHBOUND DETOUR	1121	239+83.5	EOP	MATCH EXISTING SOUTHBOUND CROSS-SLOPE

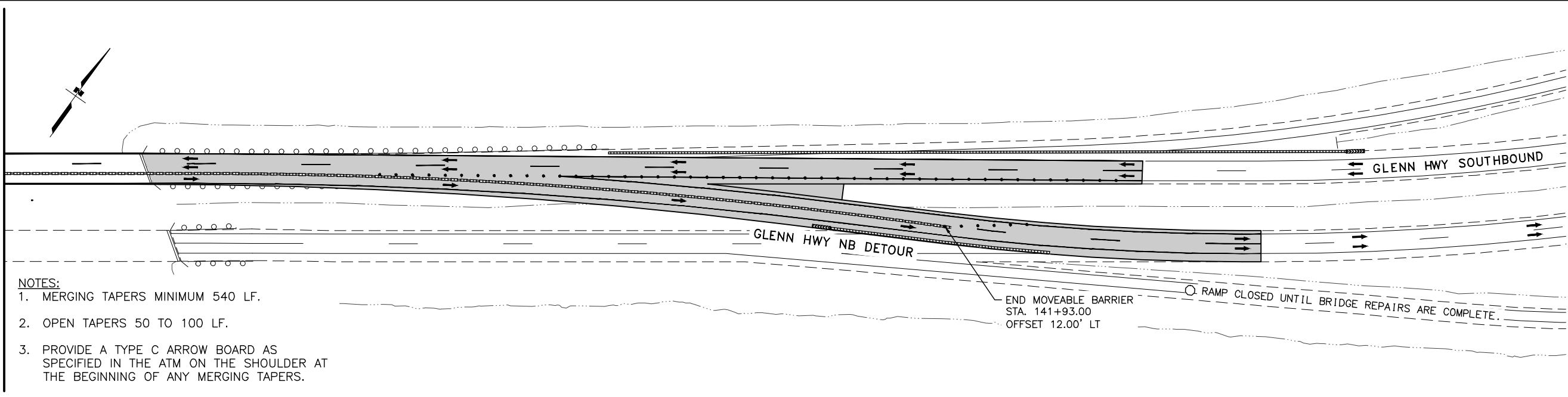
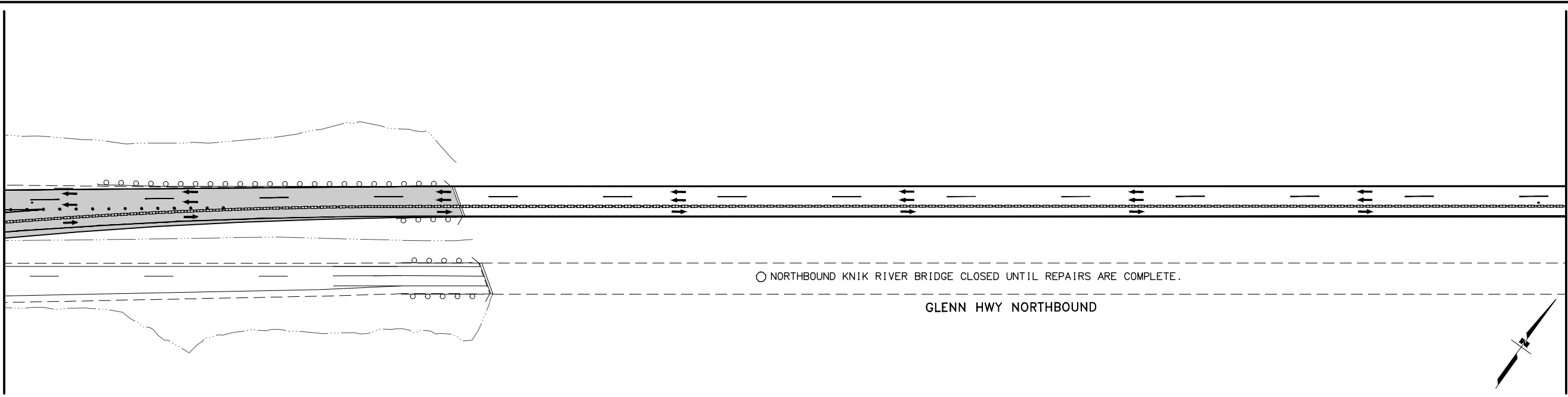
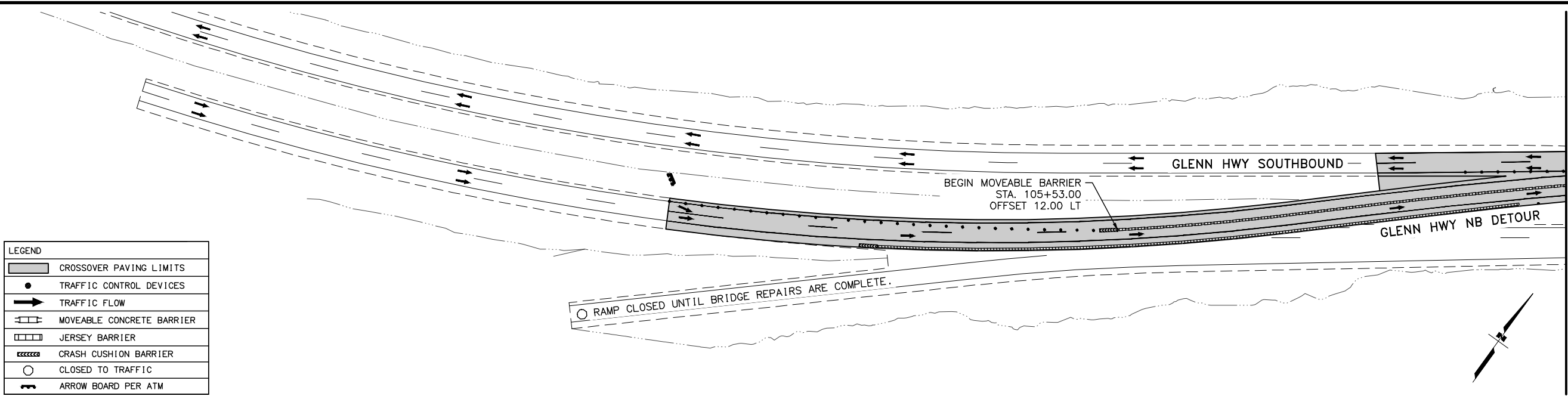


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

DETOUR TYPICAL SECTIONS

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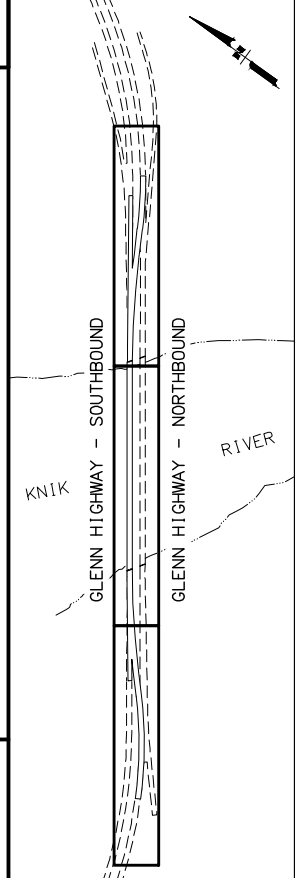


- NOTES:
- MERGING TAPERS MINIMUM 540 LF.
 - OPEN TAPERS 50 TO 100 LF.
 - PROVIDE A TYPE C ARROW BOARD AS SPECIFIED IN THE ATM ON THE SHOULDER AT THE BEGINNING OF ANY MERGING TAPERS.

LEGEND

	CROSSOVER PAVING LIMITS
	TRAFFIC CONTROL DEVICES
	TRAFFIC FLOW
	MOVEABLE CONCRETE BARRIER
	JERSEY BARRIER
	CRASH CUSHION BARRIER
	CLOSED TO TRAFFIC
	ARROW BOARD PER ATM

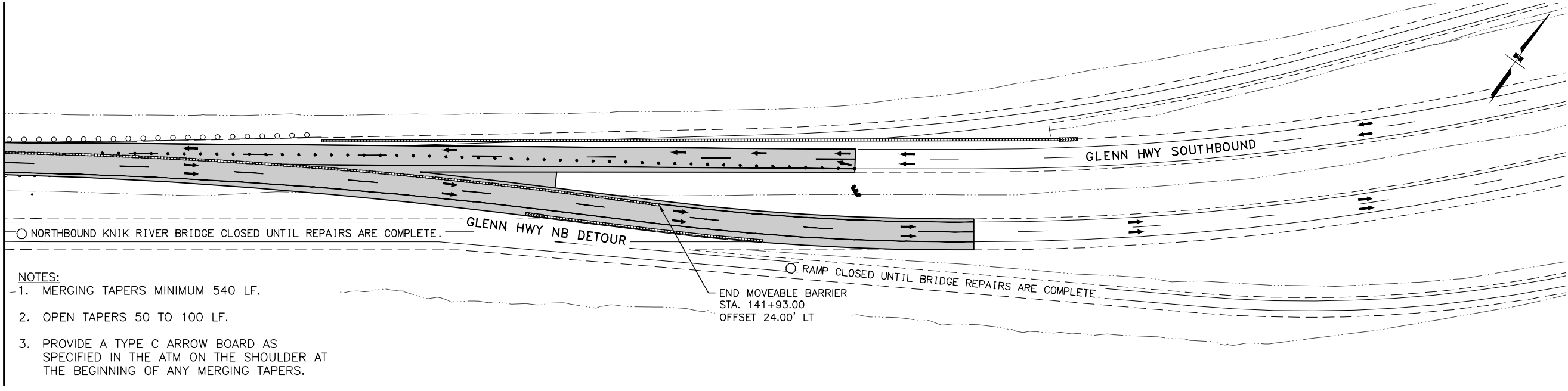
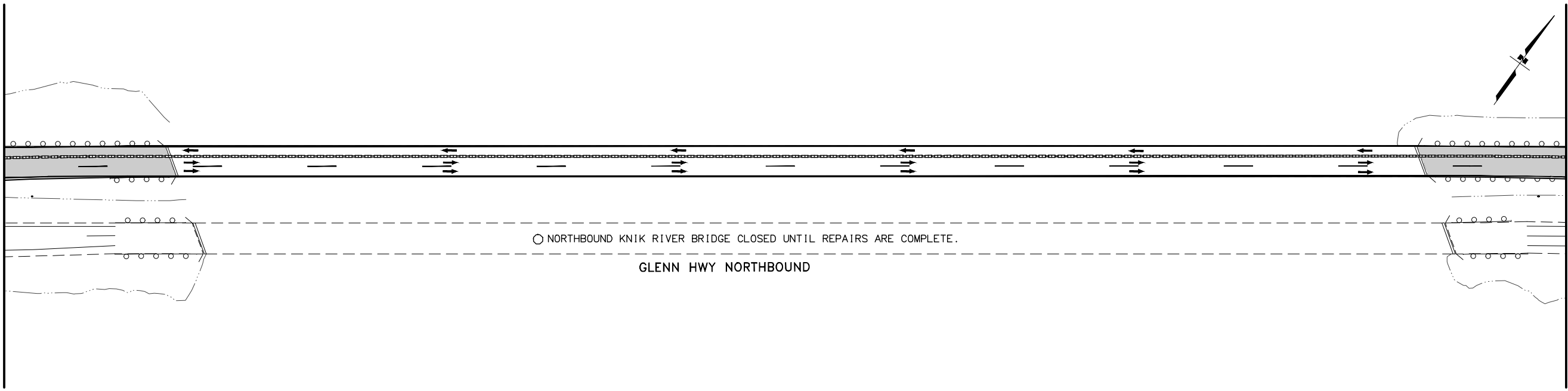
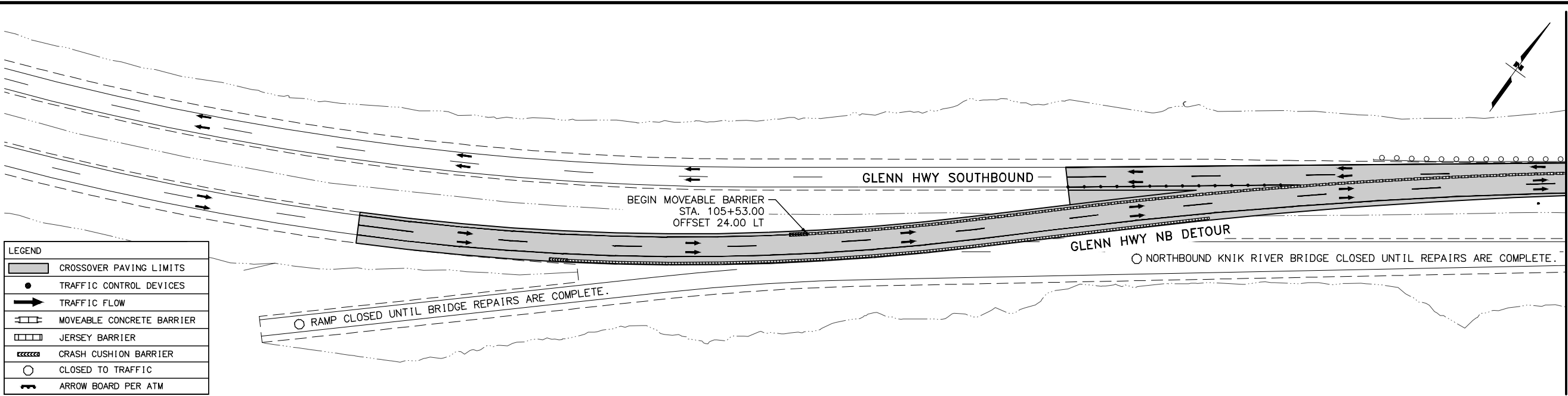
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STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001685/ CFHWY00523	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 NORTHBOUND DETOUR**
**AM PEAK
 OVERVIEW**

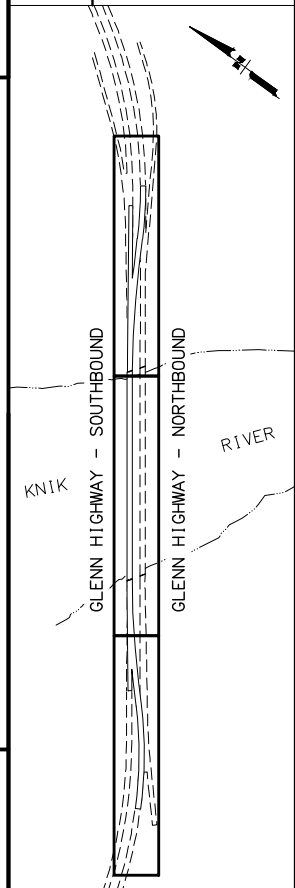
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SHEET NO.	TOTAL SHEETS
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STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
 0001685/
 CFHWY00523

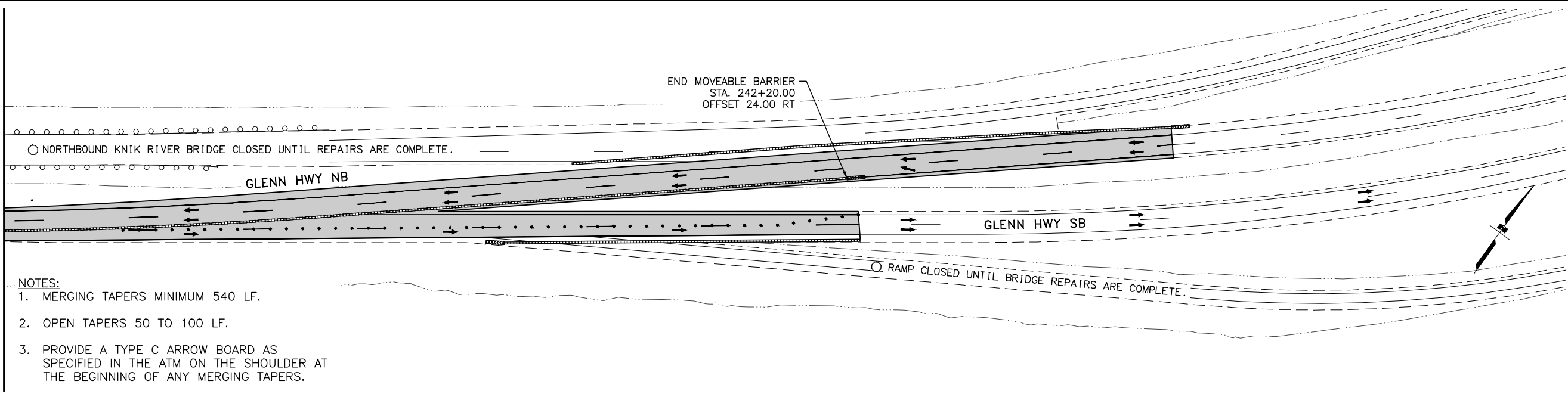
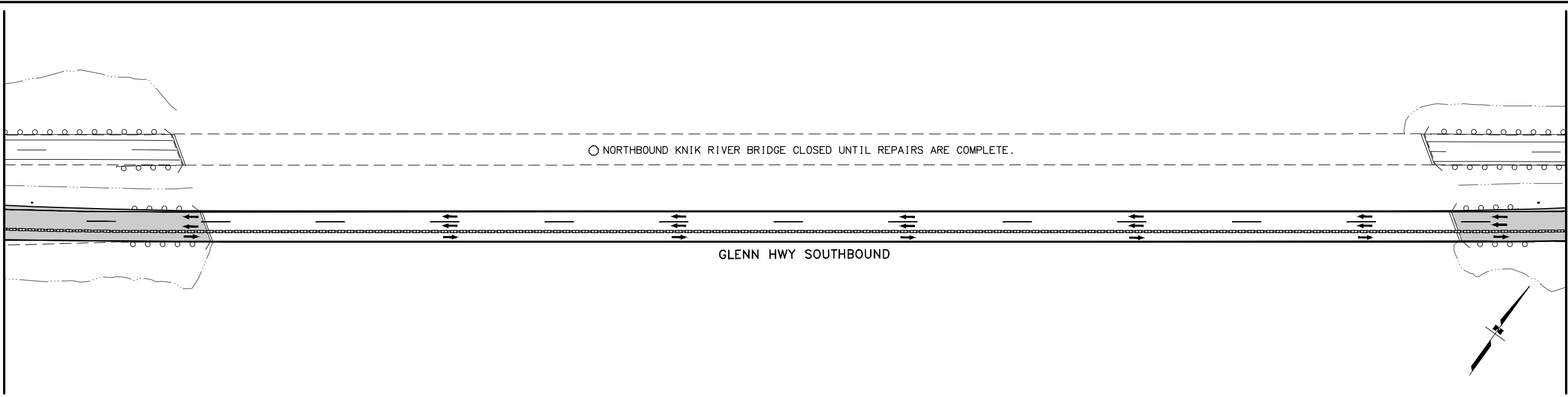
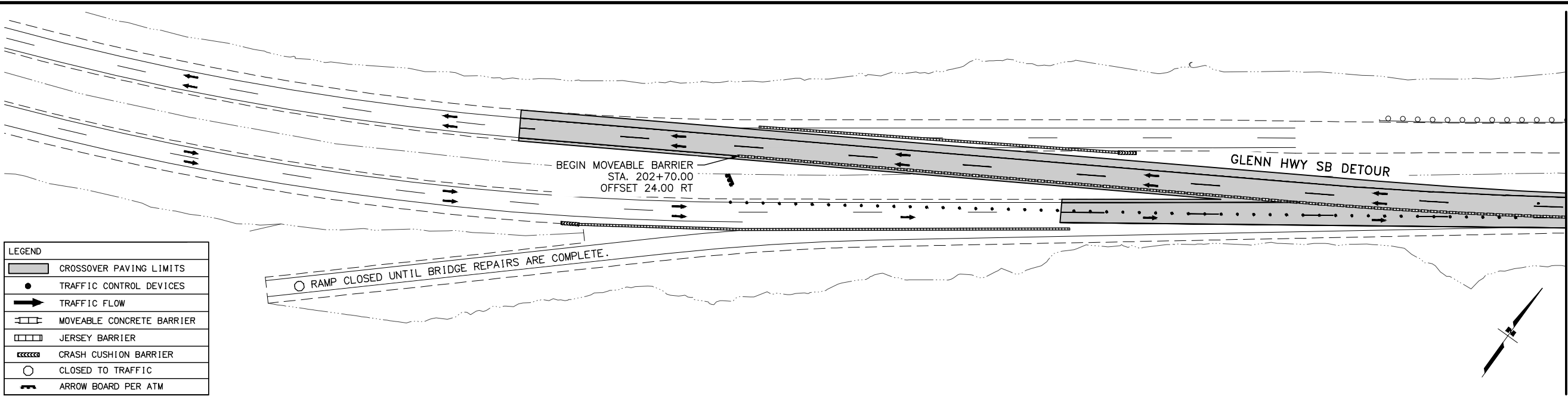
NO.	REVISION



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 NORTHBOUND DETOUR
 PM PEAK
 OVERVIEW**

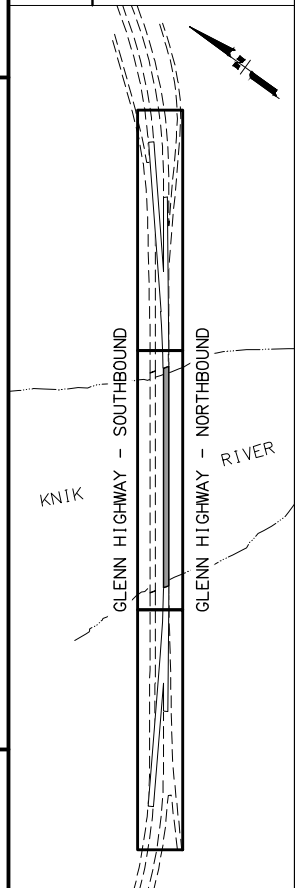
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 CHECKED BY: SA
 DRAFTED BY: DD
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 TIME: 10:53 AM
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SHEET NO.	TOTAL SHEETS
J6	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
 0001685/
 CFHWY00523

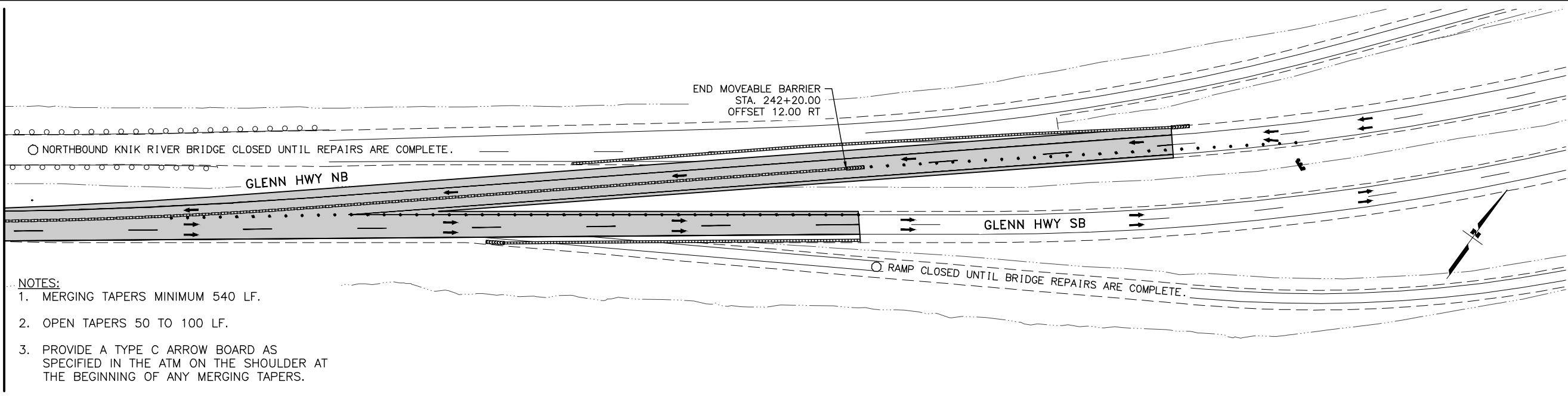
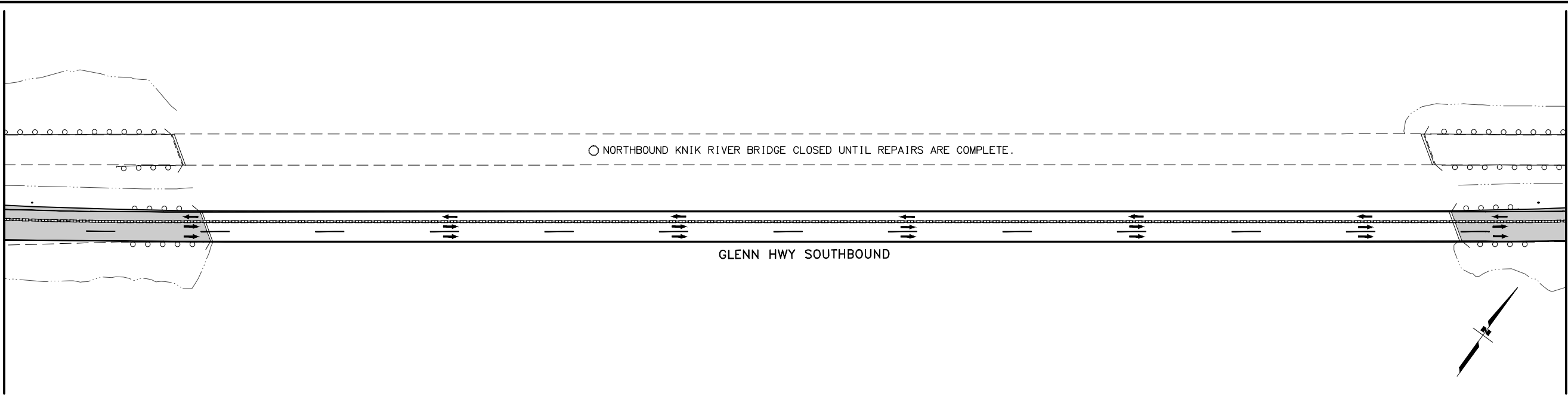
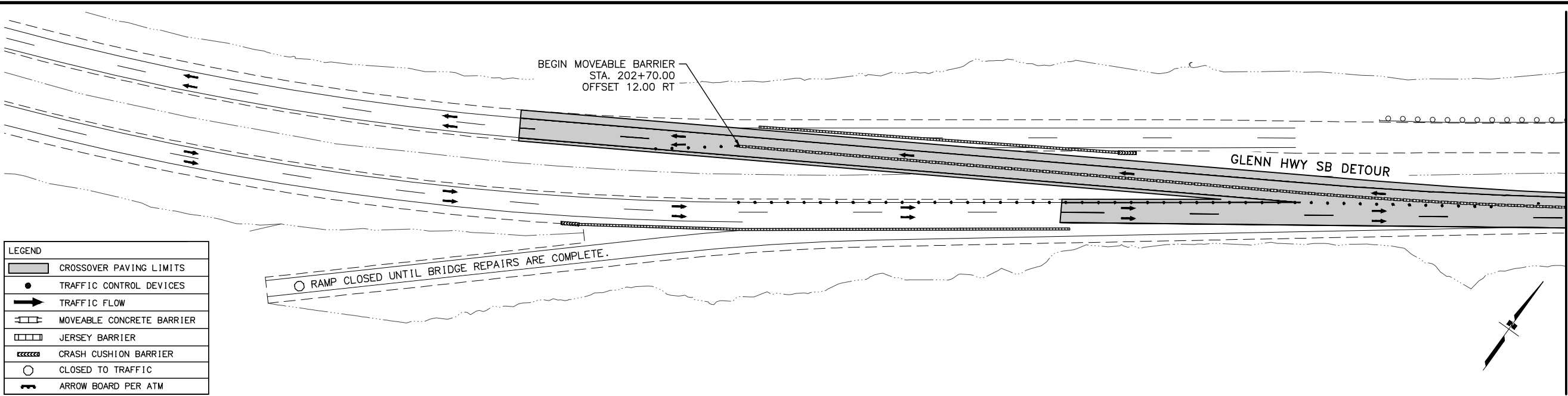
NO.	REVISION



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 SOUTHBOUND DETOUR
 AM PEAK
 OVERVIEW**

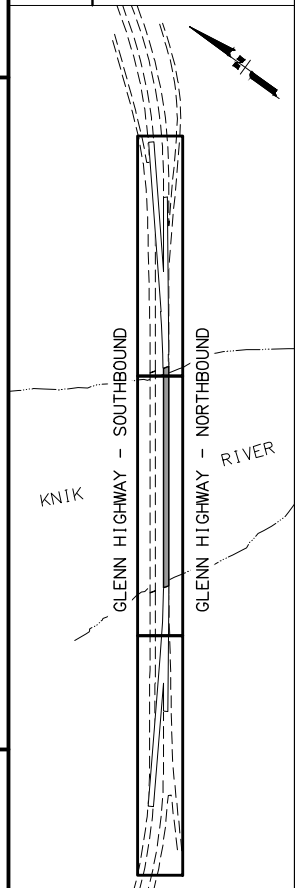
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SHEET NO.	TOTAL SHEETS
J7	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
 0001685/
 CFHWY00523

NO.	REVISION



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 SOUTHBOUND DETOUR**
**PM PEAK
 OVERVIEW**

DESIGNED BY: AN
 CHECKED BY: SA
 DRAFTED BY: DD

SCALE: 1" = 80'

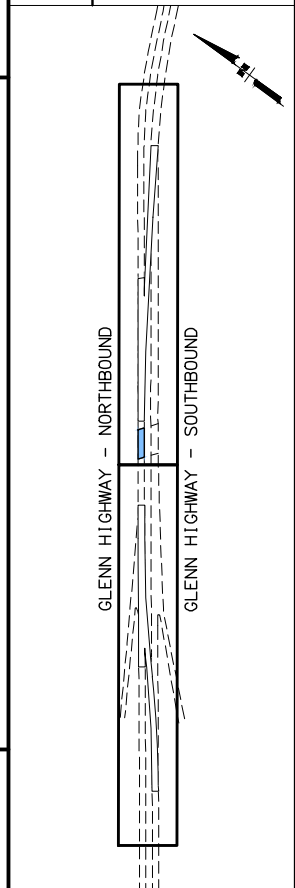
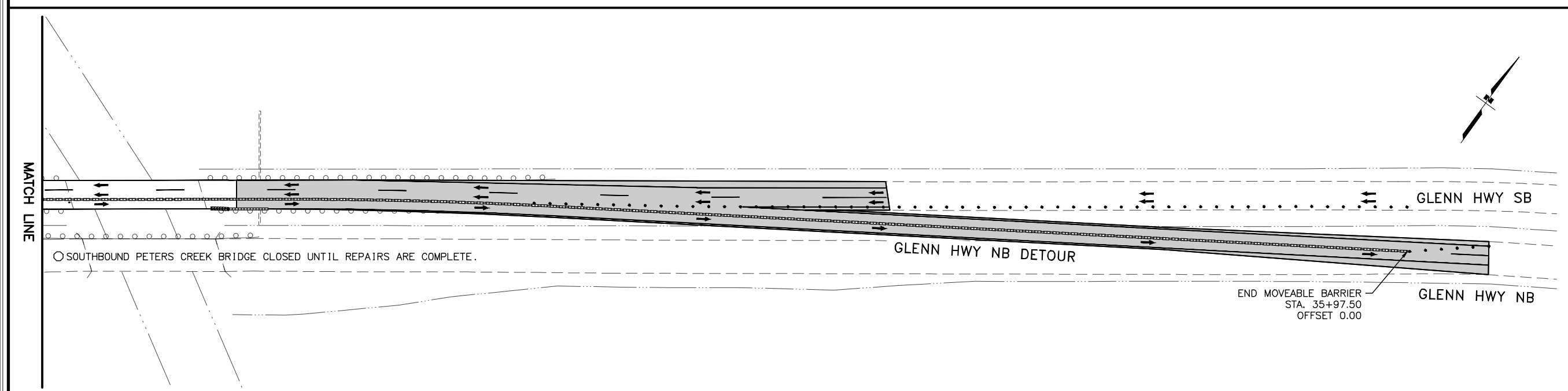
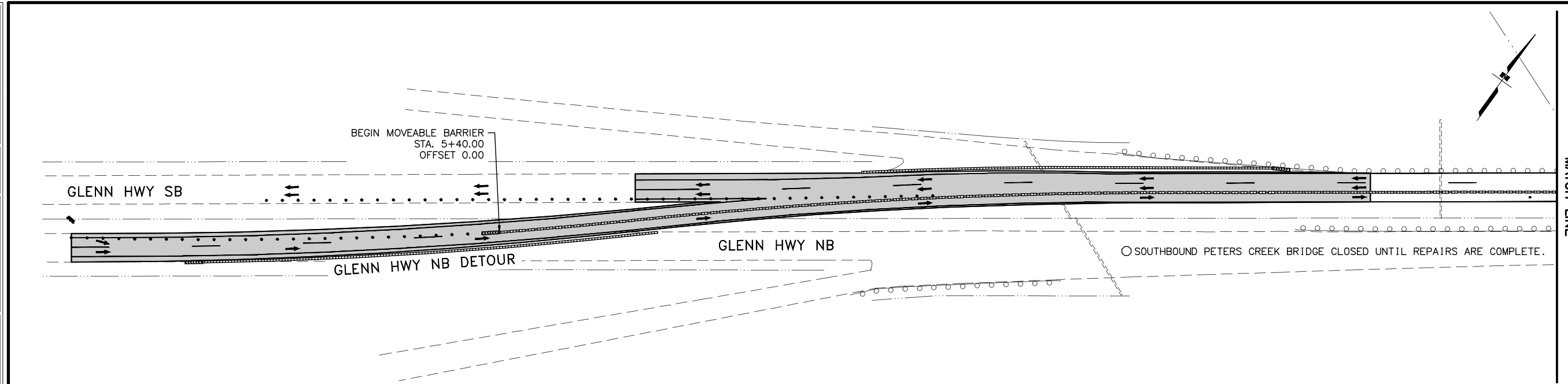
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 TIME: 10:54 AM

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SHEET NO.	TOTAL SHEETS
J8	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



- NOTES:**
- MERGING TAPERS MINIMUM 540 LF.
 - OPEN TAPERS 50 TO 100 LF.
 - PROVIDE A TYPE C ARROW BOARD AS SPECIFIED IN THE ATM ON THE SHOULDER AT THE BEGINNING OF ANY MERGING TAPERS.

LEGEND	
	CROSSOVER PAVING LIMITS
	TRAFFIC CONTROL DEVICES
	TRAFFIC FLOW
	MOVEABLE CONCRETE BARRIER
	JERSEY BARRIER
	CRASH CUSHION BARRIER
	CLOSED TO TRAFFIC
	ARROW BOARD PER ATM



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

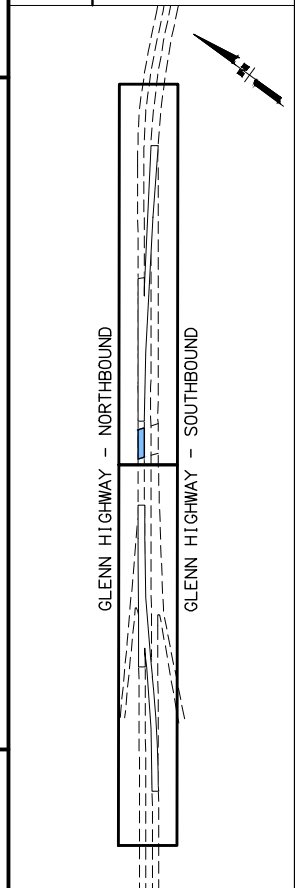
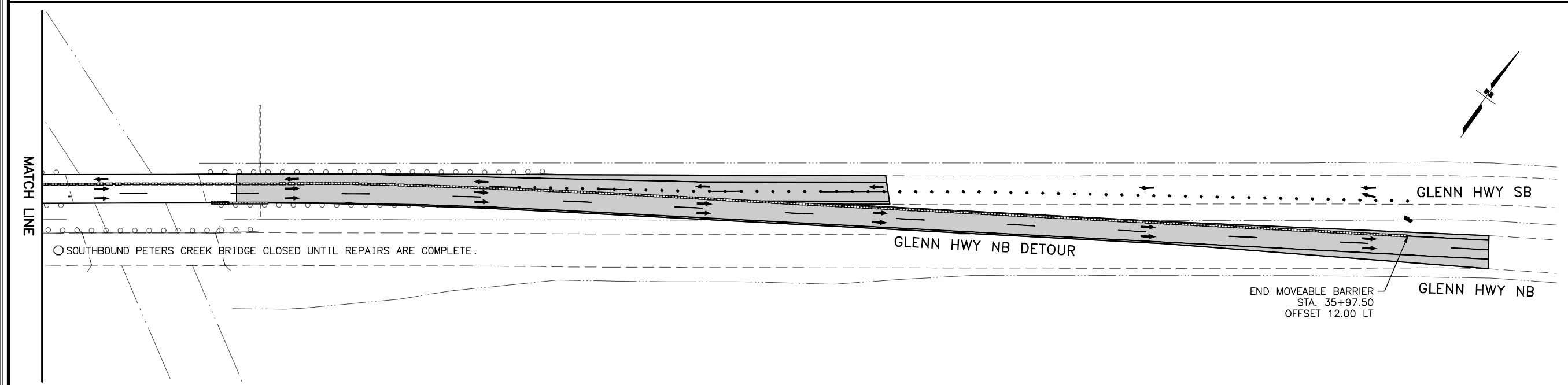
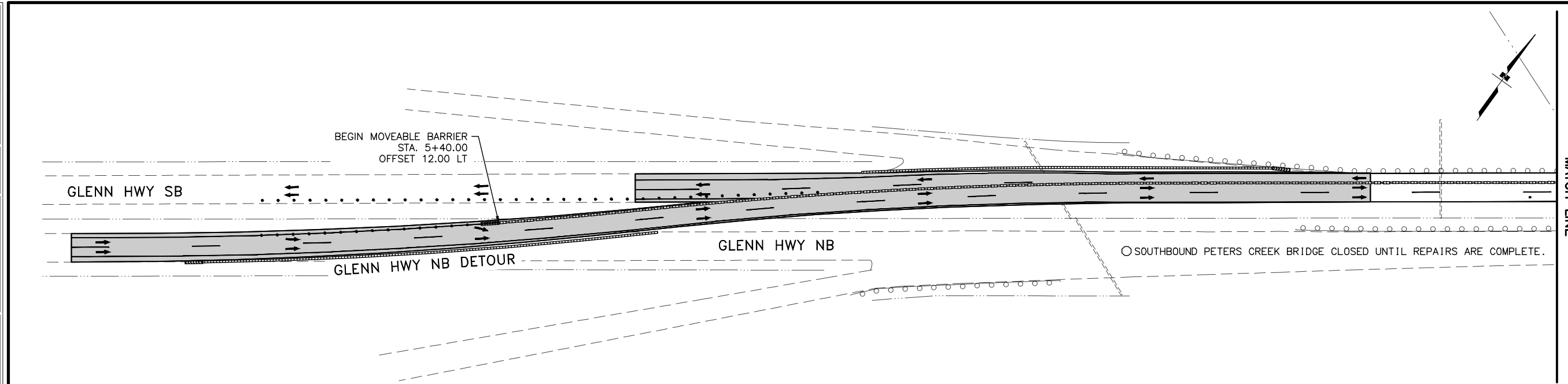
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 PETERS CREEK BRIDGE
 SOUTHBOUND DETOUR
 AM PEAK
 OVERVIEW**

AN SA DD
 DESIGNED BY: SA
 CHECKED BY: SA
 DRAFTED BY: DD
 SCALE: 1" = 80'
 DATE: 3/8/2024 10:54 AM
 TIME: 10:54 AM
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SHEET NO.	TOTAL SHEETS
J9	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



- NOTES:**
- MERGING TAPERS MINIMUM 540 LF.
 - OPEN TAPERS 50 TO 100 LF.
 - PROVIDE A TYPE C ARROW BOARD AS SPECIFIED IN THE ATM ON THE SHOULDER AT THE BEGINNING OF ANY MERGING TAPERS.

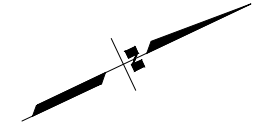
LEGEND	
	CROSSOVER PAVING LIMITS
	TRAFFIC CONTROL DEVICES
	TRAFFIC FLOW
	MOVEABLE CONCRETE BARRIER
	JERSEY BARRIER
	CRASH CUSHION BARRIER
	CLOSED TO TRAFFIC
	ARROW BOARD PER ATM



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 PETERS CREEK BRIDGE
 SOUTHBOUND DETOUR
 PM PEAK
 OVERVIEW**

P.I. STA. 103+81.86
 $\Delta = 014^{\circ}30'28.5''$
 $T = 381.86'$
 $L = 759.63'$
 $R = 3000.00'$

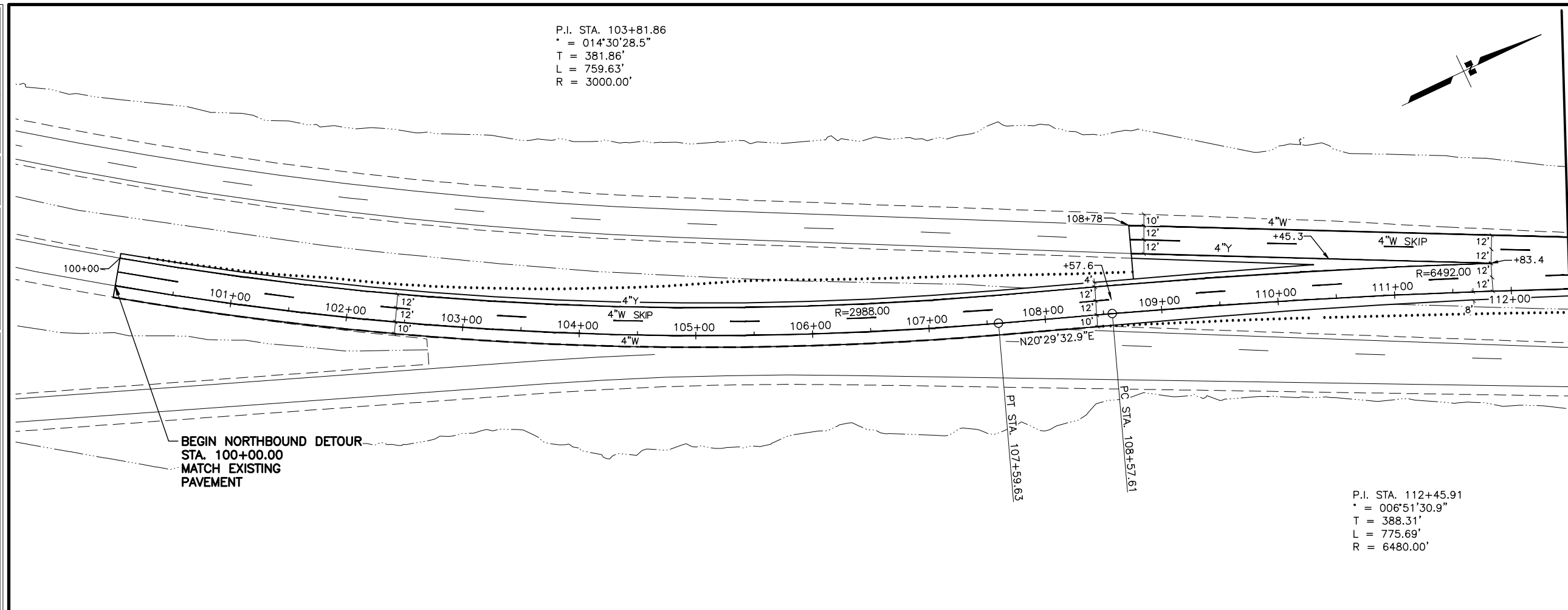


SHEET NO.	TOTAL SHEETS
J10	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION

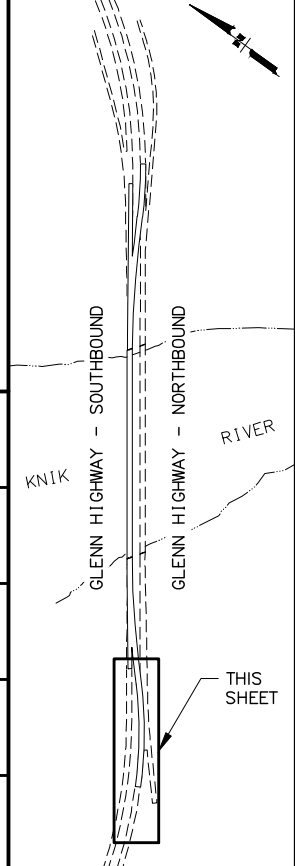
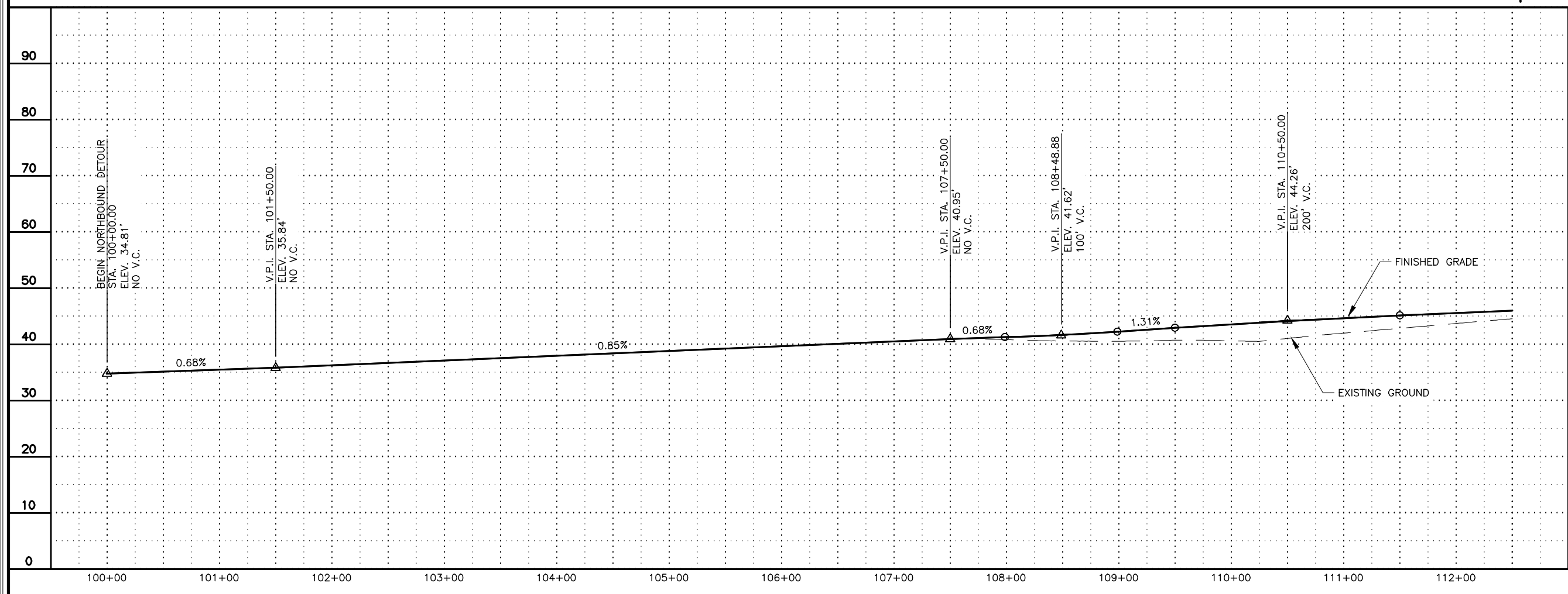
DATE 3/8/2024 10:54 AM
 TIME 10:54 AM
 SCALE 1" = 50'
 DESIGNED BY AN
 CHECKED BY SA
 DRAFTED BY DD



MATCH LINE STA. 112+50

BEGIN NORTHBOUND DETOUR
 STA. 100+00.00
 MATCH EXISTING
 PAVEMENT

P.I. STA. 112+45.91
 $\Delta = 006^{\circ}51'30.9''$
 $T = 388.31'$
 $L = 775.69'$
 $R = 6480.00'$



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 BOD to STA. 112+50**

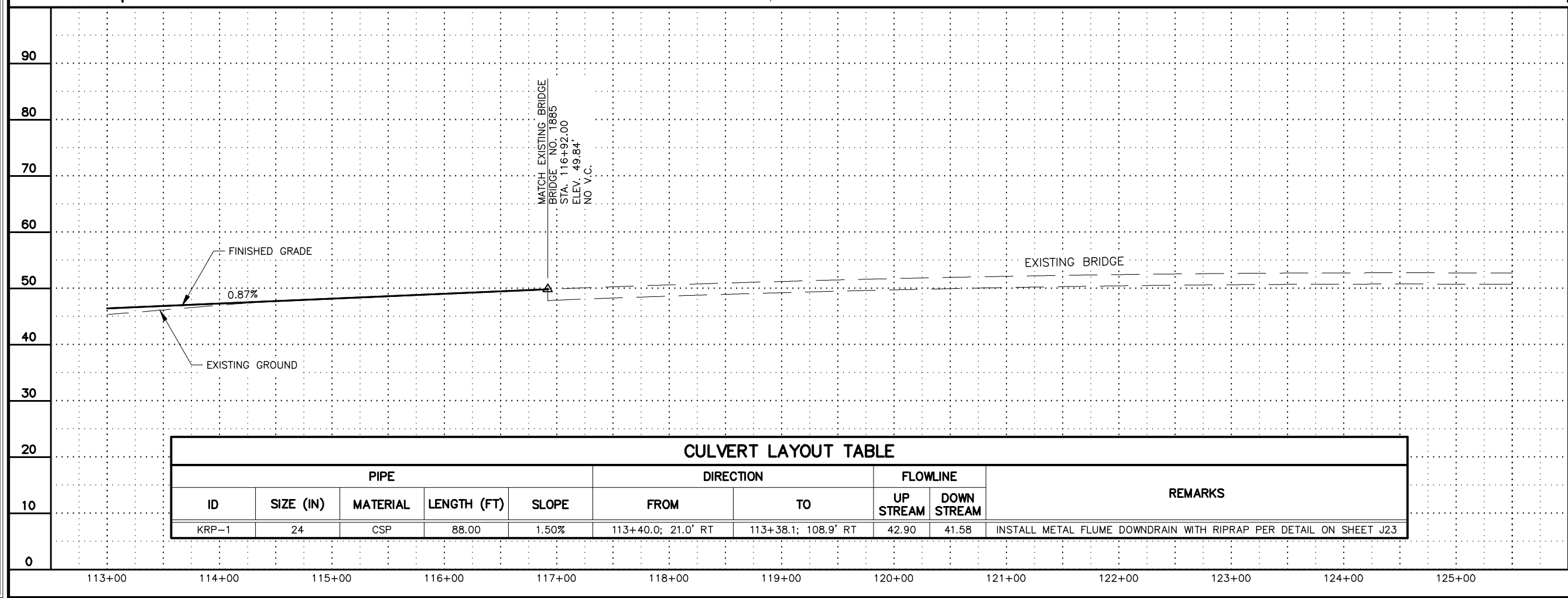
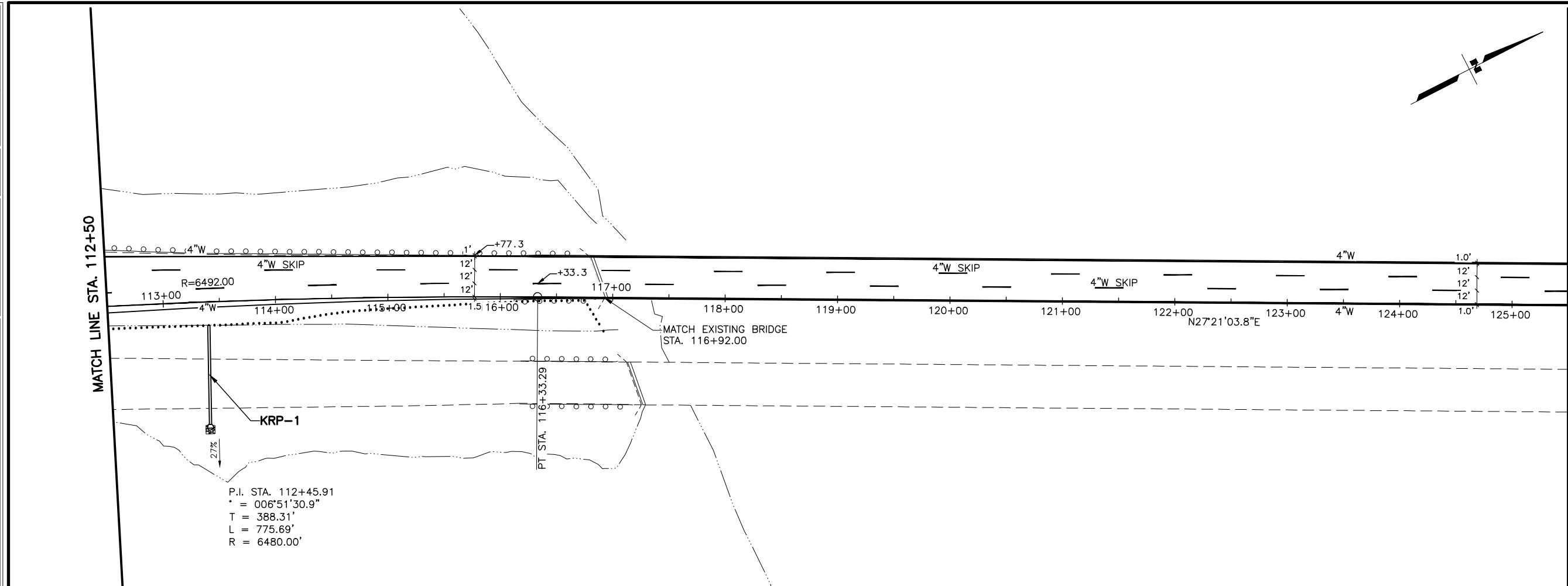
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 DATE: 3/8/2024 10:54 AM
 TIME: 10:54 AM
 SCALE: 1" = 50'
 DESIGNED BY: AN
 CHECKED BY: SA
 DRAFTED BY: DD

SHEET NO.	TOTAL SHEETS
J11	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

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



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
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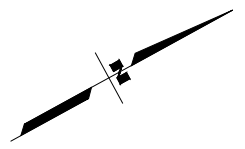
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 112+50 to 125+50**

CULVERT LAYOUT TABLE									
PIPE					DIRECTION		FLOWLINE		REMARKS
ID	SIZE (IN)	MATERIAL	LENGTH (FT)	SLOPE	FROM	TO	UP STREAM	DOWN STREAM	
KRP-1	24	CSP	88.00	1.50%	113+40.0; 21.0' RT	113+38.1; 108.9' RT	42.90	41.58	

DRAWING LOCATION: D:\P\W\SE\FILE\DM50217\PL-23-005-01-J PLAN SHEETS KRB.DWG
 DATE: 3/8/2024 10:54 AM
 TIME: 10:54 AM
 SCALE: 1" = 50'
 DESIGNED BY: AN
 CHECKED BY: SA
 DRAFTED BY: DD

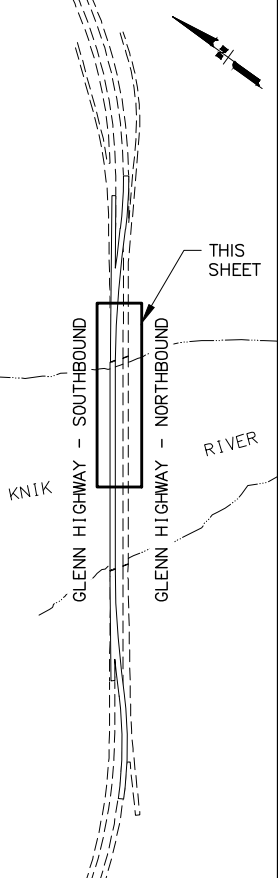
CULVERT LAYOUT TABLE										
ID	SIZE (IN)	PIPE			DIRECTION		FLOWLINE		REMARKS	
		MATERIAL	LENGTH (FT)	SLOPE	FROM	TO	UP STREAM	DOWN STREAM		
KRP-2	24	CSP	82.00	2.56%	135+12.6; 21.8' RT	135+16.3; 103.7' RT	44.10	42.00	INSTALL METAL FLUME DOWNDRAIN WITH RIPRAP PER DETAIL ON SHEET J23	



SHEET NO.	TOTAL SHEETS
J12	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



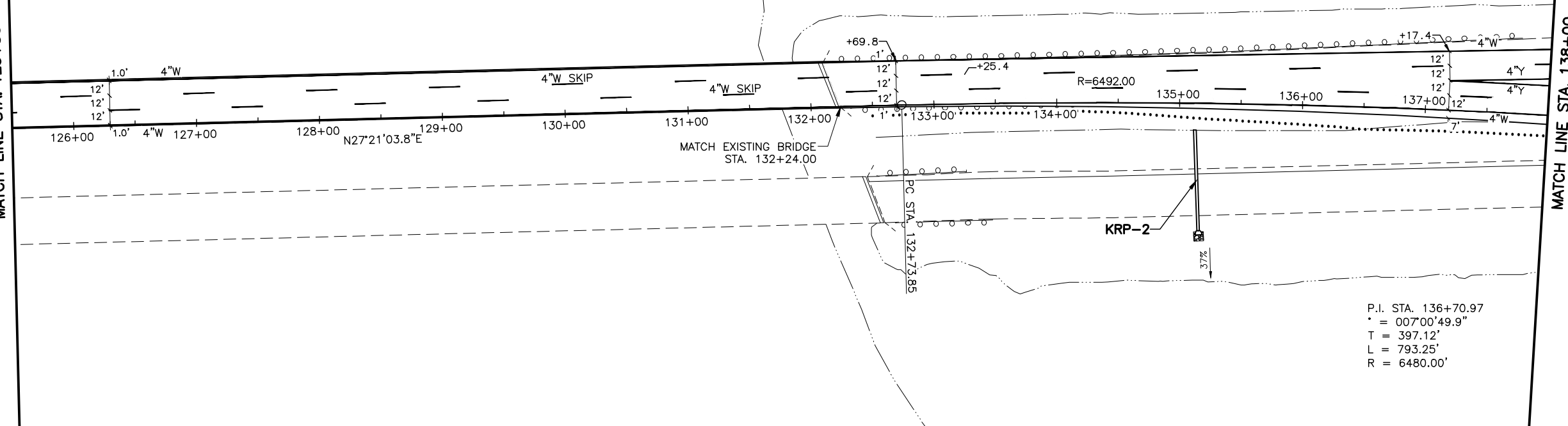
STATE OF ALASKA
40th ANNUAL CERTIFICATION
 DAVID J. GAMEZ
 CE-107878
 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

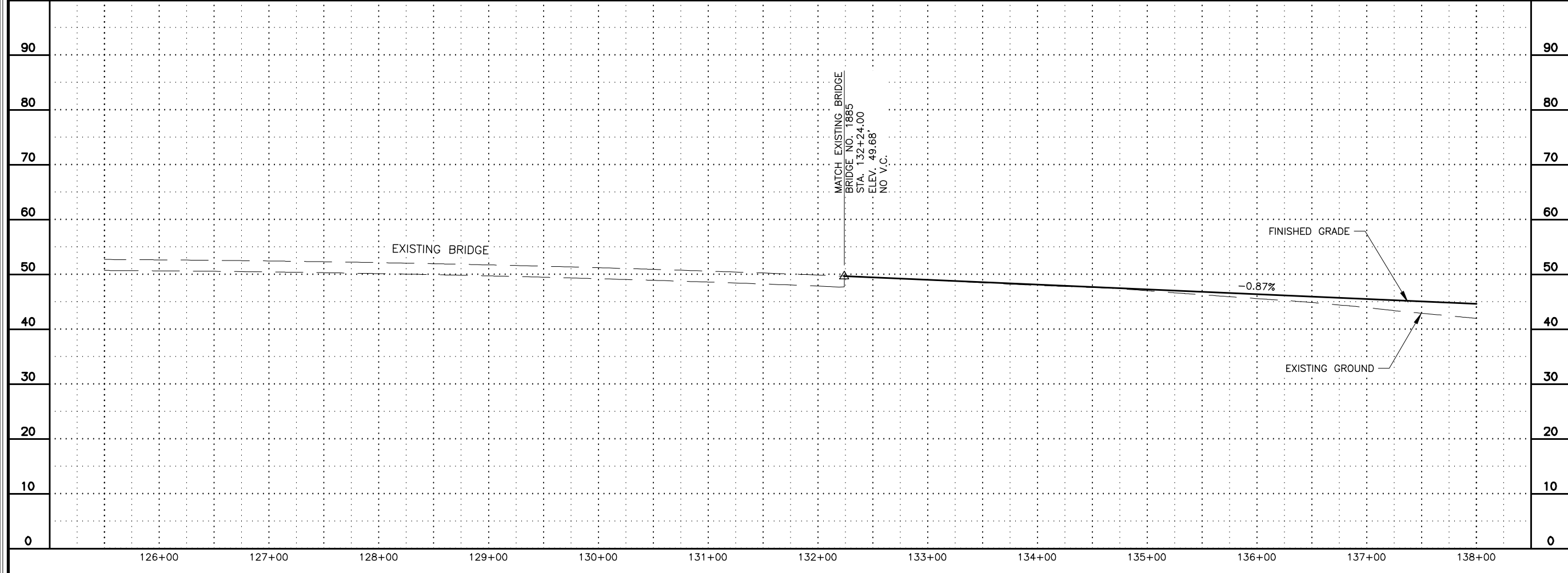
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 125+50 to 138+00**

MATCH LINE STA. 125+50

MATCH LINE STA. 138+00



P.I. STA. 136+70.97
 * = 007'00"49.9"
 T = 397.12'
 L = 793.25'
 R = 6480.00'

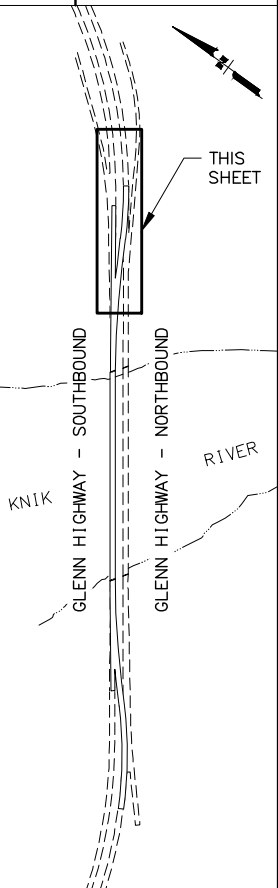


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SHEET NO.	TOTAL SHEETS
J13	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

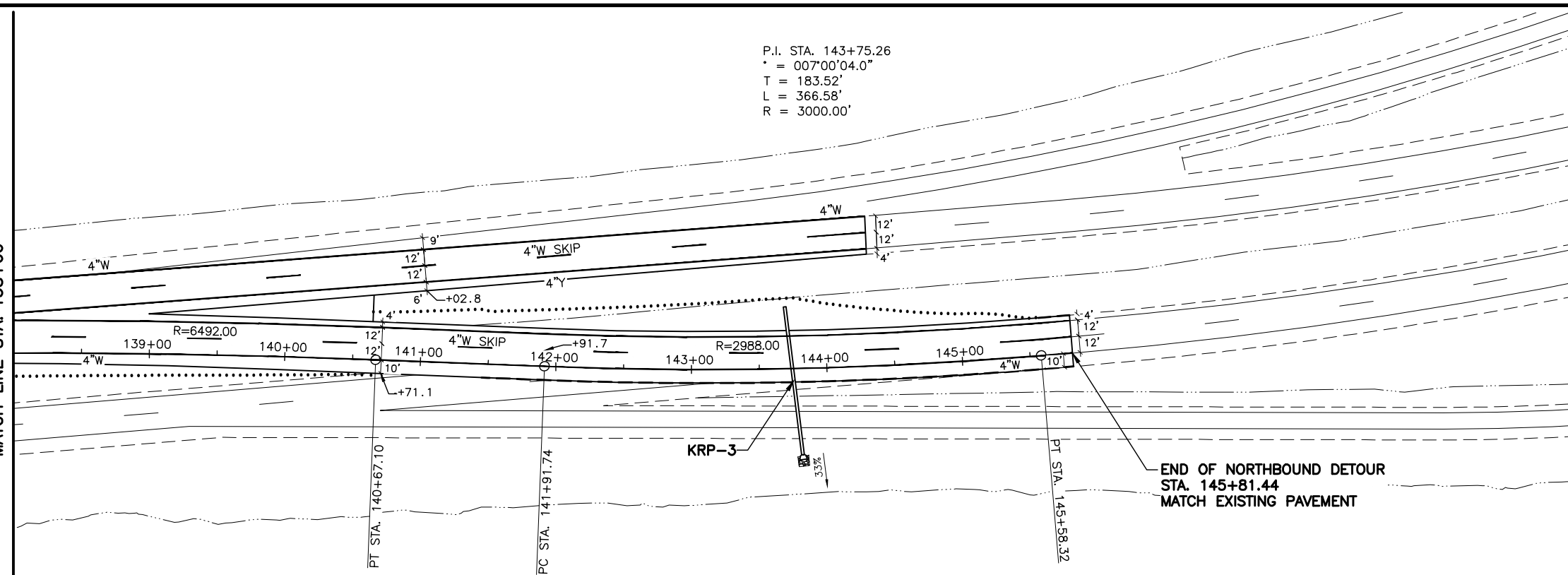
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 138+00 to EOD**

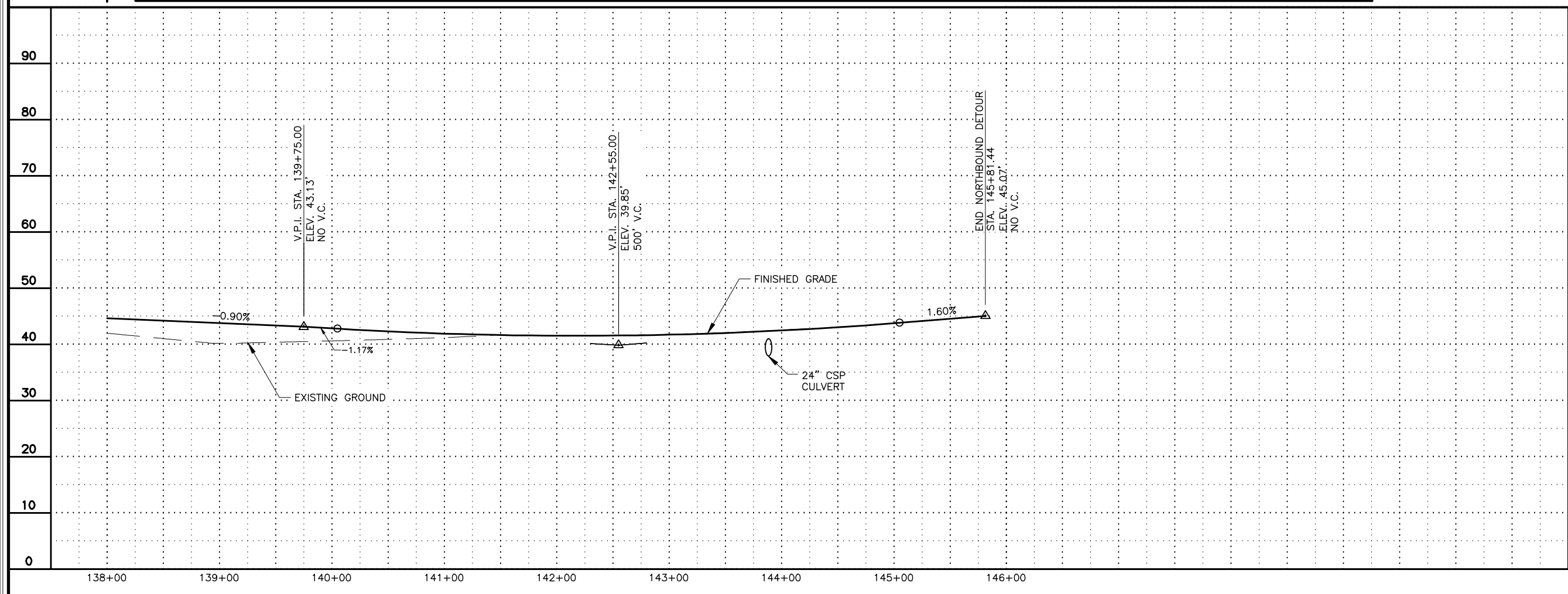
P.I. STA. 143+75.26
 Δ = 007'00"04.0"
 T = 183.52'
 L = 366.58'
 R = 3000.00'

MATCH LINE STA. 138+00



CULVERT LAYOUT TABLE

ID	SIZE (IN)	PIPE MATERIAL	LENGTH (FT)	SLOPE	DIRECTION		FLOWLINE		REMARKS
					FROM	TO	UP STREAM	DOWN STREAM	
KRP-3	24	CSP	110.00	2.45%	143+69.7; 45.8' LT	143+80.9; 63.7' RT	38.80	36.10	INSTALL METAL FLUME DOWNDRAIN WITH RIPRAP PER DETAIL ON SHEET J23



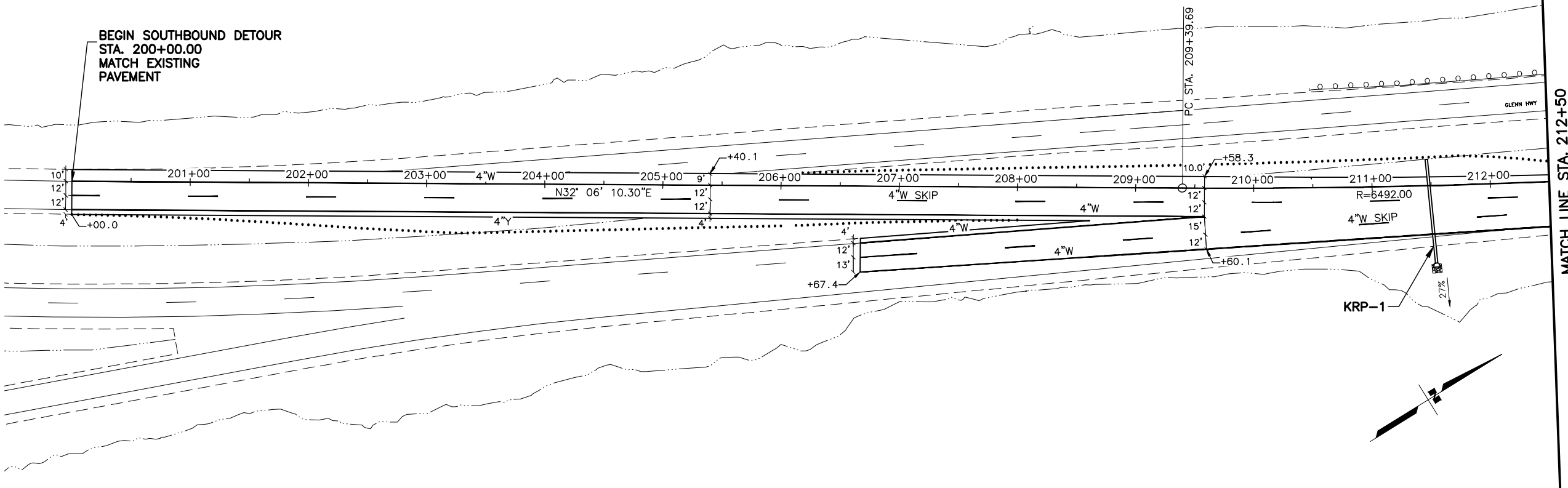
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 CHECKED BY: SA
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DATE: 3/8/2024 10:54 AM
 TIME: 10:54 AM
 SCALE: 1" = 50'

DRAWING LOCATION: D:\PROJECTS\2024\005217\PL-23-005-01-J PLAN SHEETS\KRB.DWG

P.I. STA. 212+08.09
 Δ = 004°44'37.0"
 T = 268.40'
 L = 536.49'
 R = 6480.00'

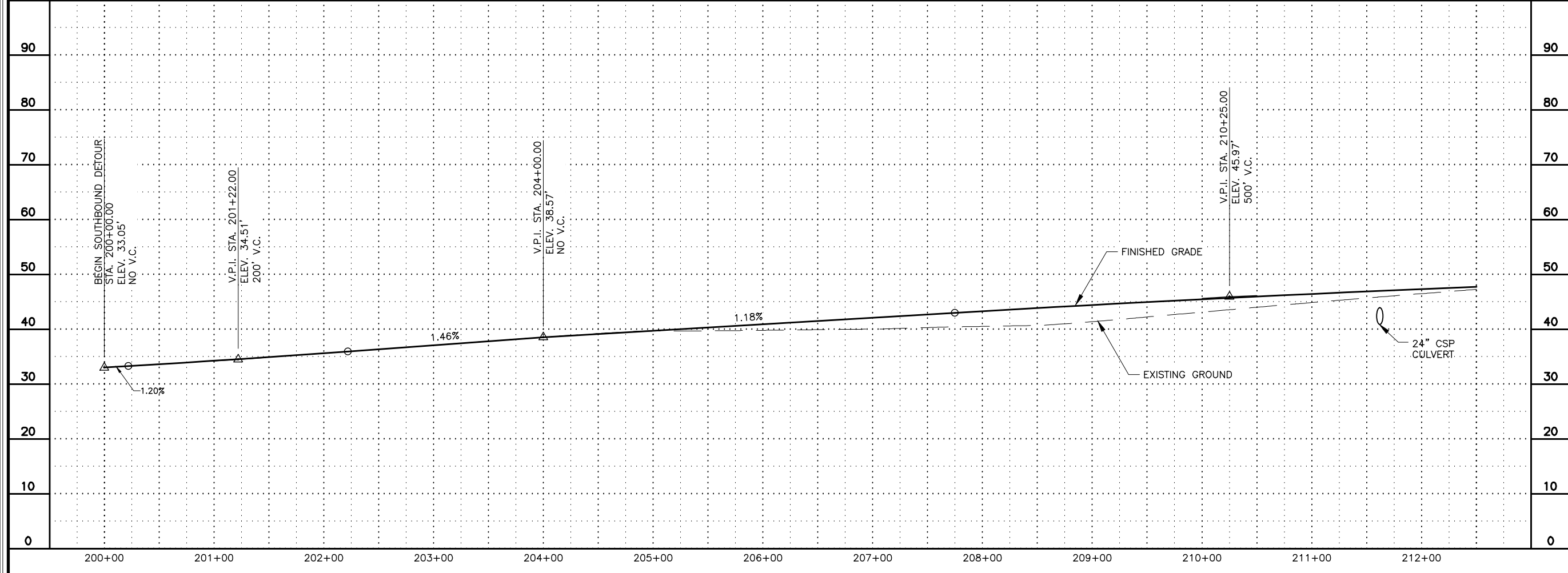
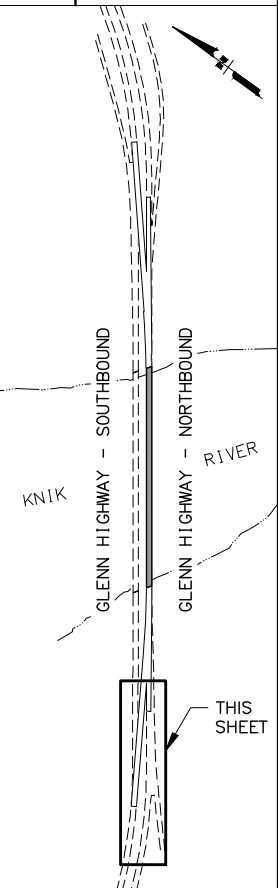


MATCH LINE STA. 212+50

SHEET NO.	TOTAL SHEETS
J14	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



STATE OF ALASKA
CERTIFICATION
 DAVID J. GAMEZ
 CE-107878
 REGISTERED PROFESSIONAL ENGINEER

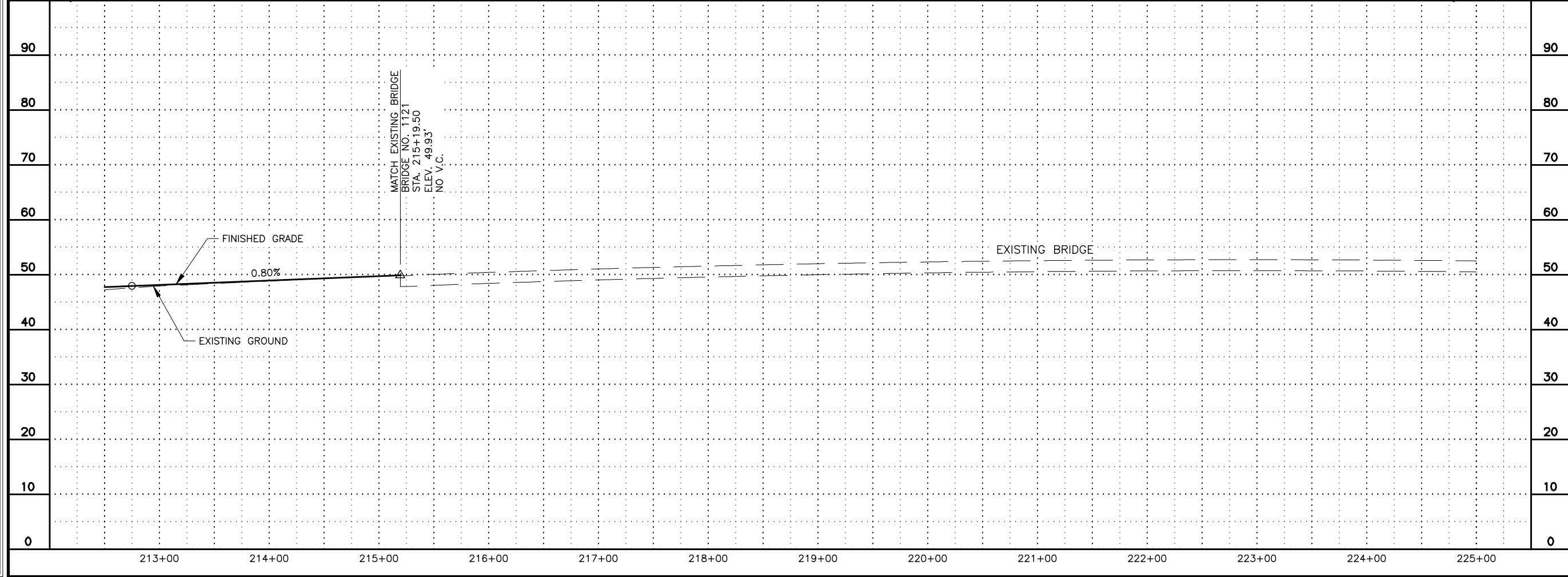
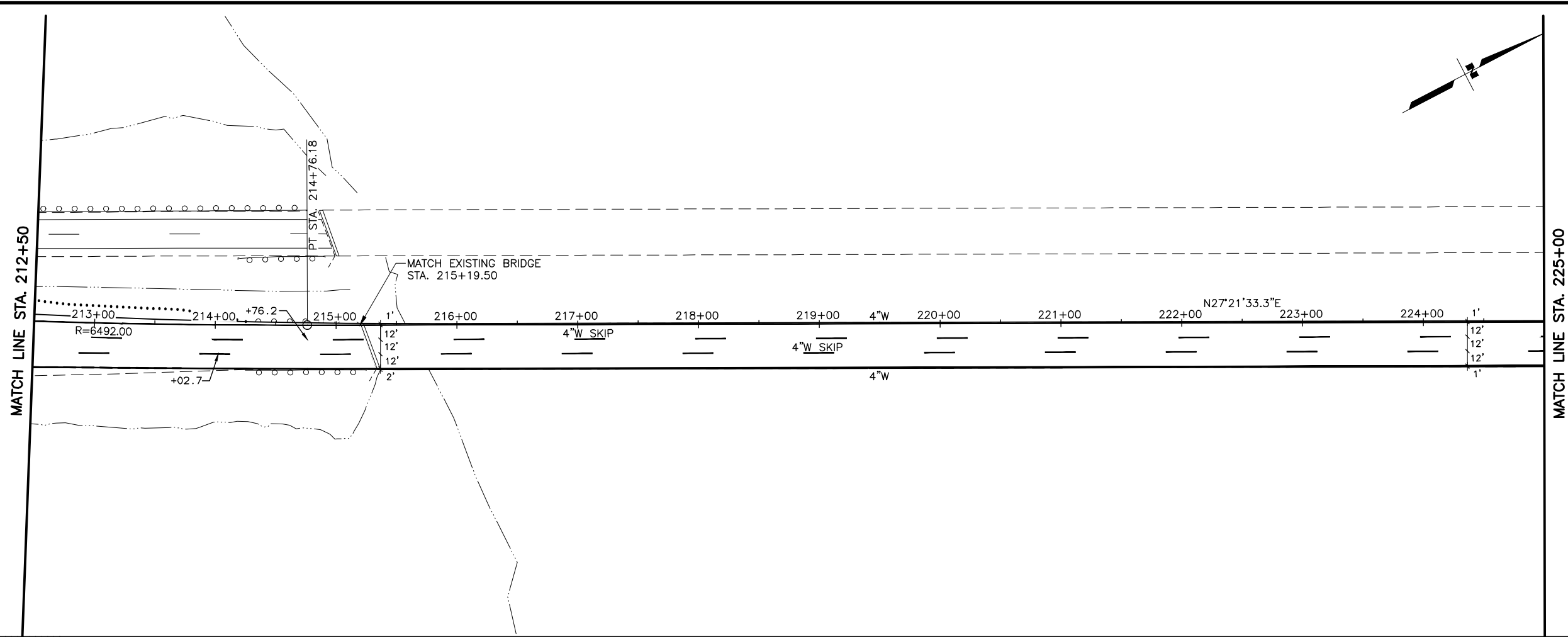
PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

**KNIK RIVER BRIDGE
 SOUTHBOUND DETOUR
 PLAN AND PROFILE
 BOD to STA. 212+50**

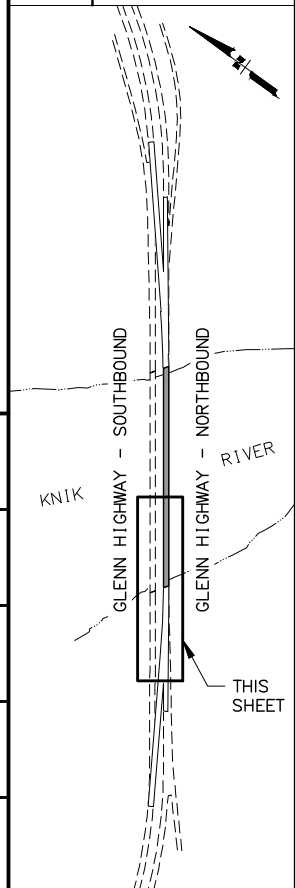
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 CHECKED BY: SA
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SHEET NO.	TOTAL SHEETS
J15	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

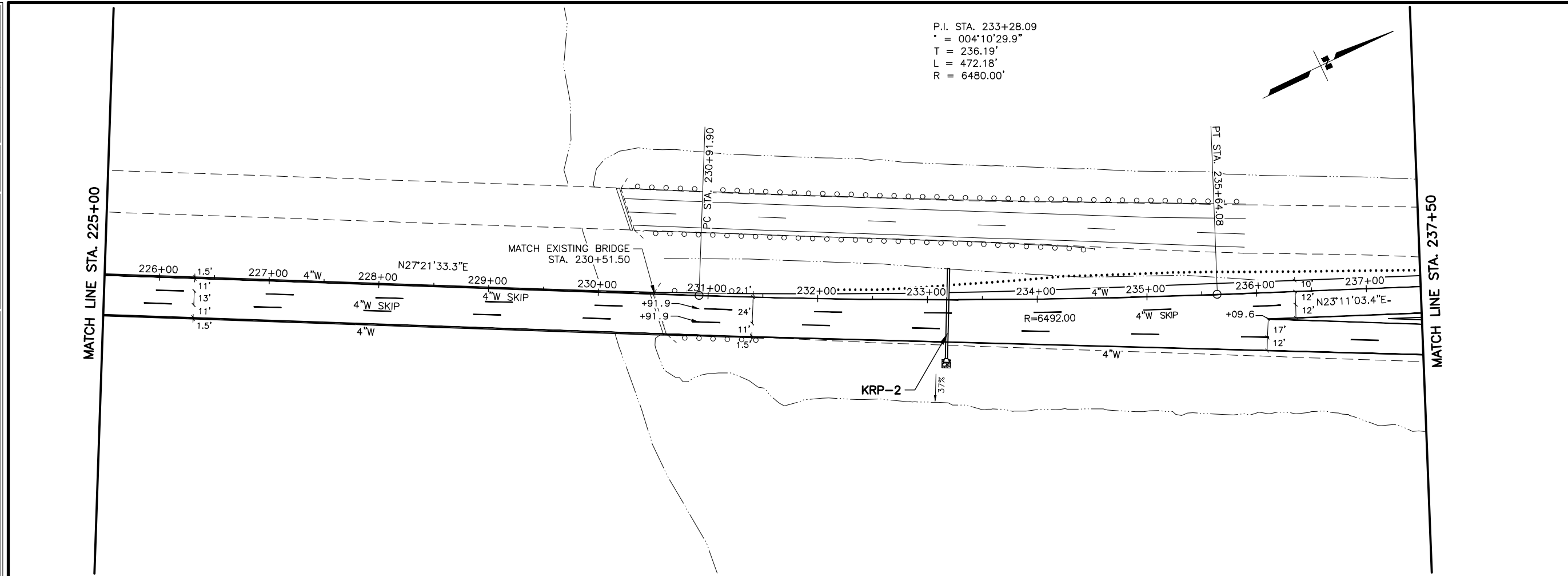
NO.	REVISION



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
**KNIK RIVER BRIDGE
 SOUTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 212+50 to
 225+00**

DRAWING LOCATION: D:\P\W\SE\FILE\DM509217\PL-23-005-01-J PLAN SHEETS KRB.DWG
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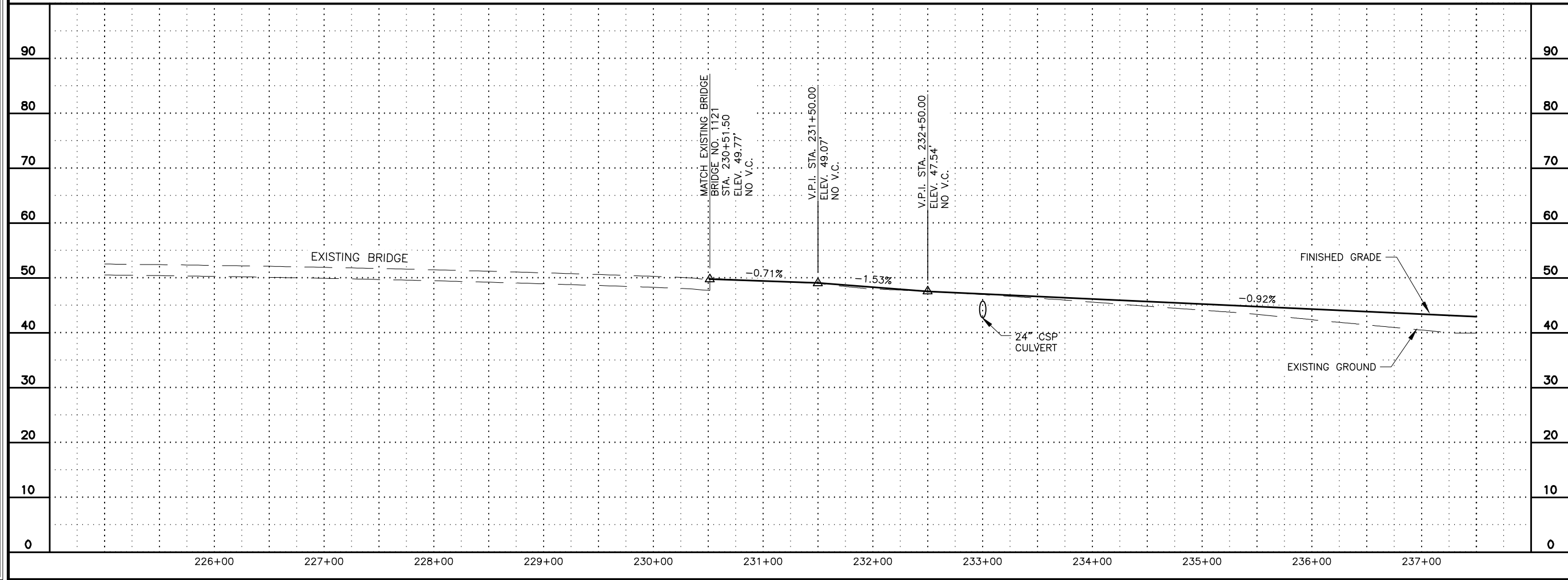
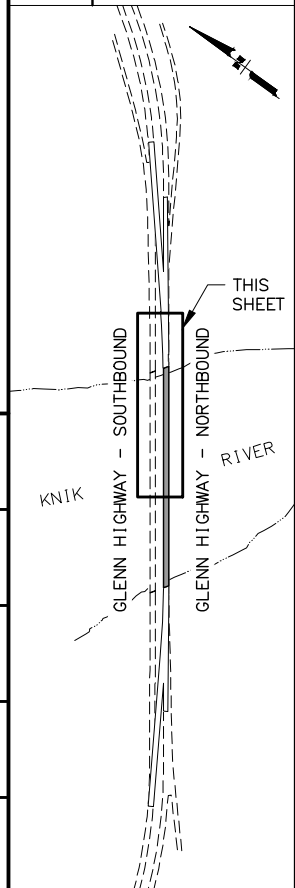


P.I. STA. 233+28.09
 $\Delta = 004^{\circ}10'29.9''$
 $T = 236.19'$
 $L = 472.18'$
 $R = 6480.00'$

SHEET NO.	TOTAL SHEETS
J16	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



STATE OF ALASKA
40th ANNUAL CERTIFICATION
 DAVID J. GAMEZ
 CE-107878
 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

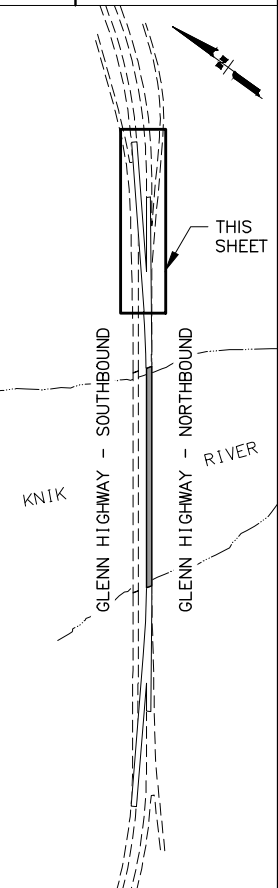
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 KNIK RIVER BRIDGE
 SOUTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 225+00 to 237+50**

DRAWING LOCATION: D:\P\WORKFILES\DM505217\PL-23-005-01-J-PLAN SHEETS\KRB.DWG
 DATE: 3/8/2024 10:54 AM
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SHEET NO.	TOTAL SHEETS
J17	J23
STATE	YEAR
ALASKA	2024

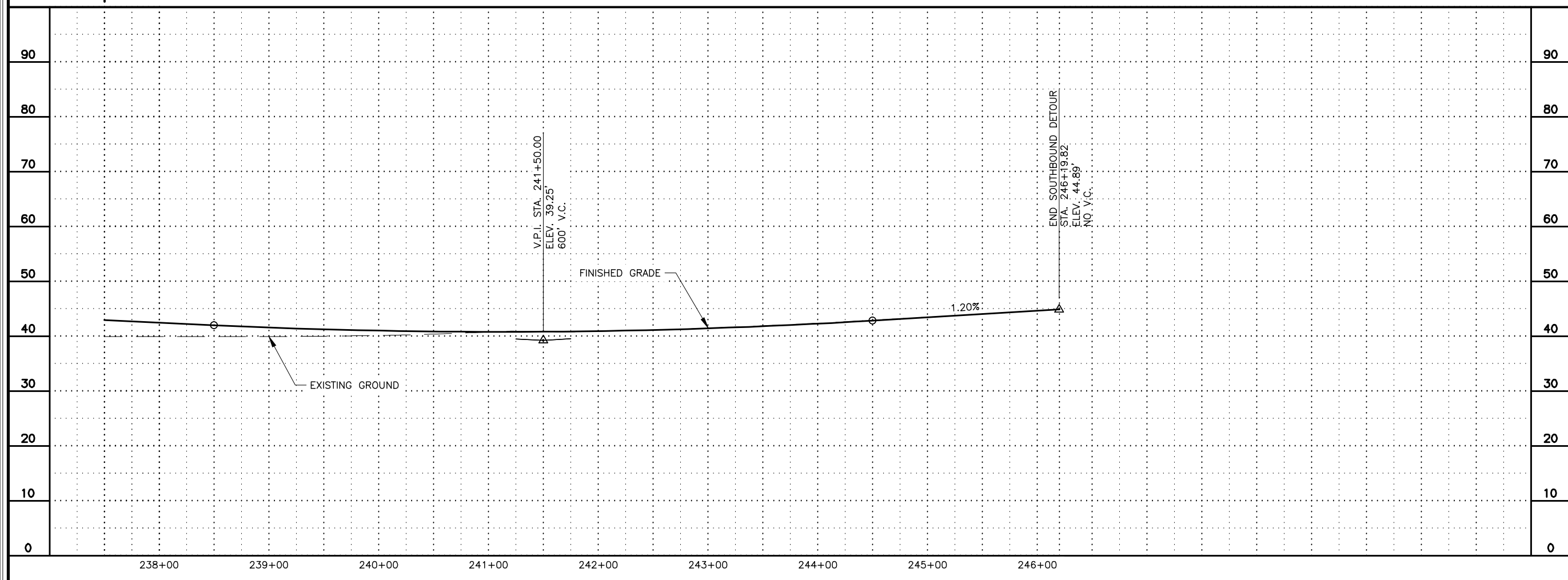
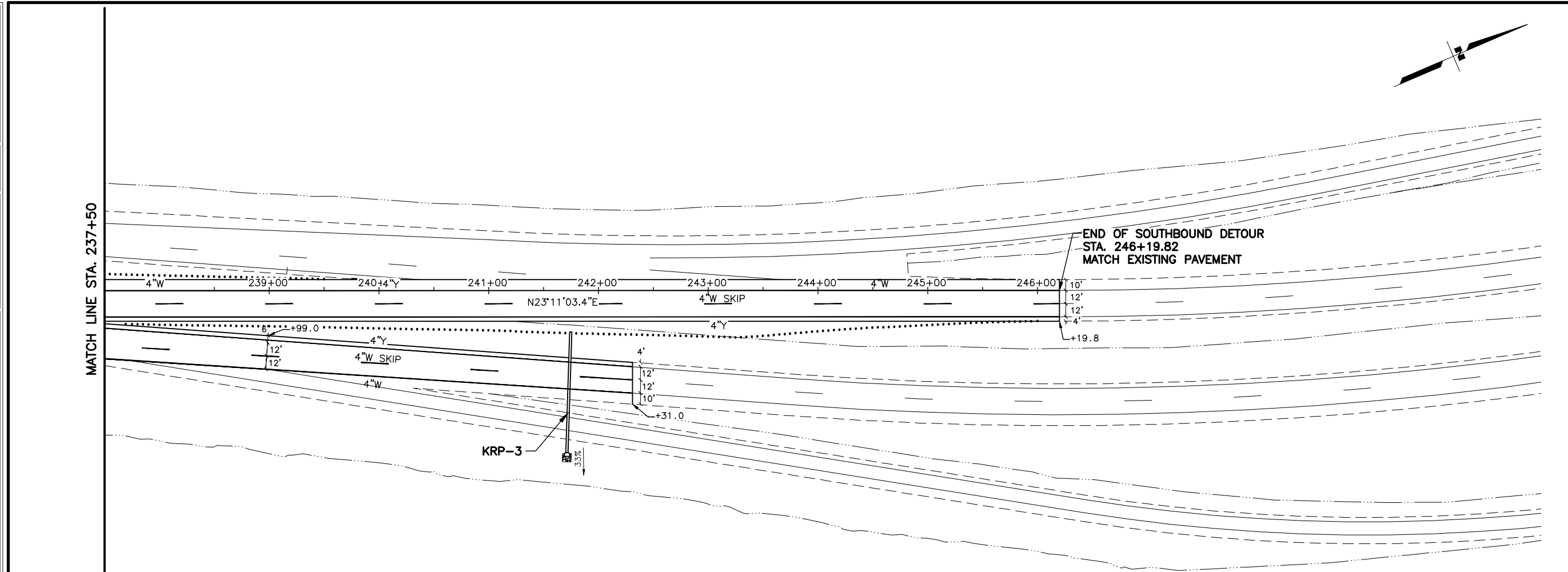
PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



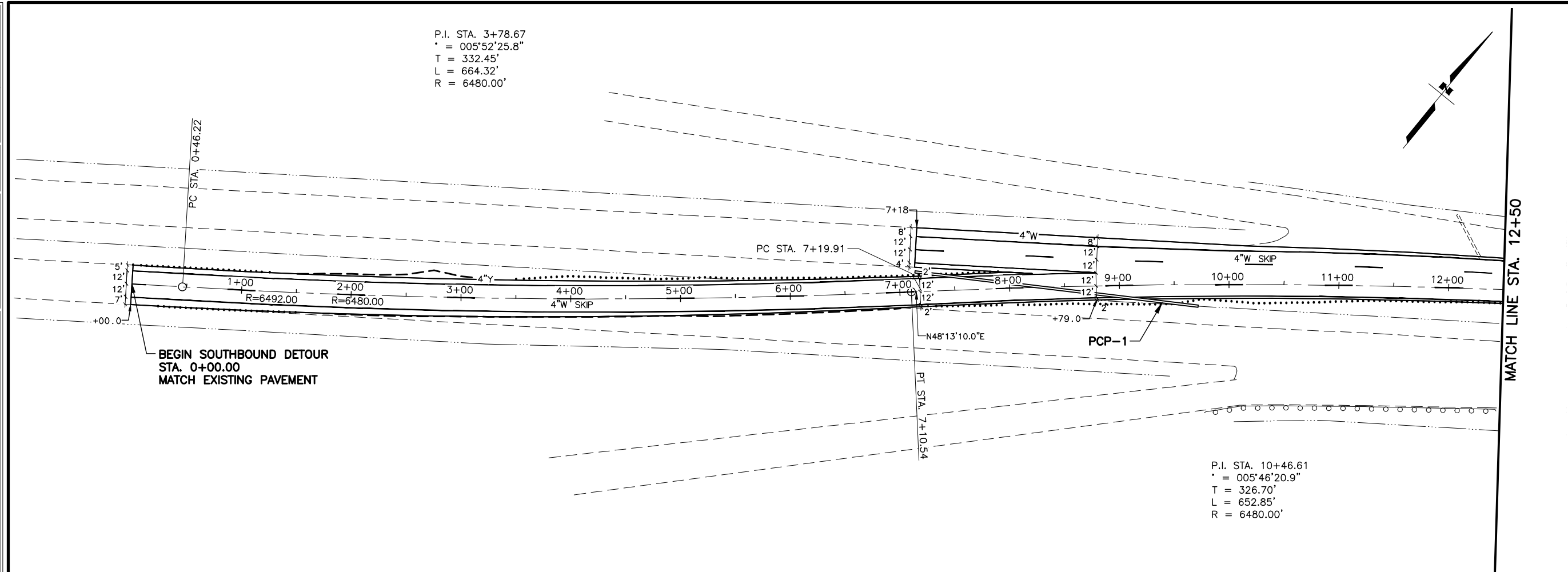
STATE OF ALASKA
CERTIFICATION
 DAVID J. GAMEZ
 GE-107878
 REGISTERED PROFESSIONAL ENGINEER
 PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
**KNIK RIVER BRIDGE
 SOUTHBOUND DETOUR
 PLAN AND PROFILE**
STA. 237+50 to EOD

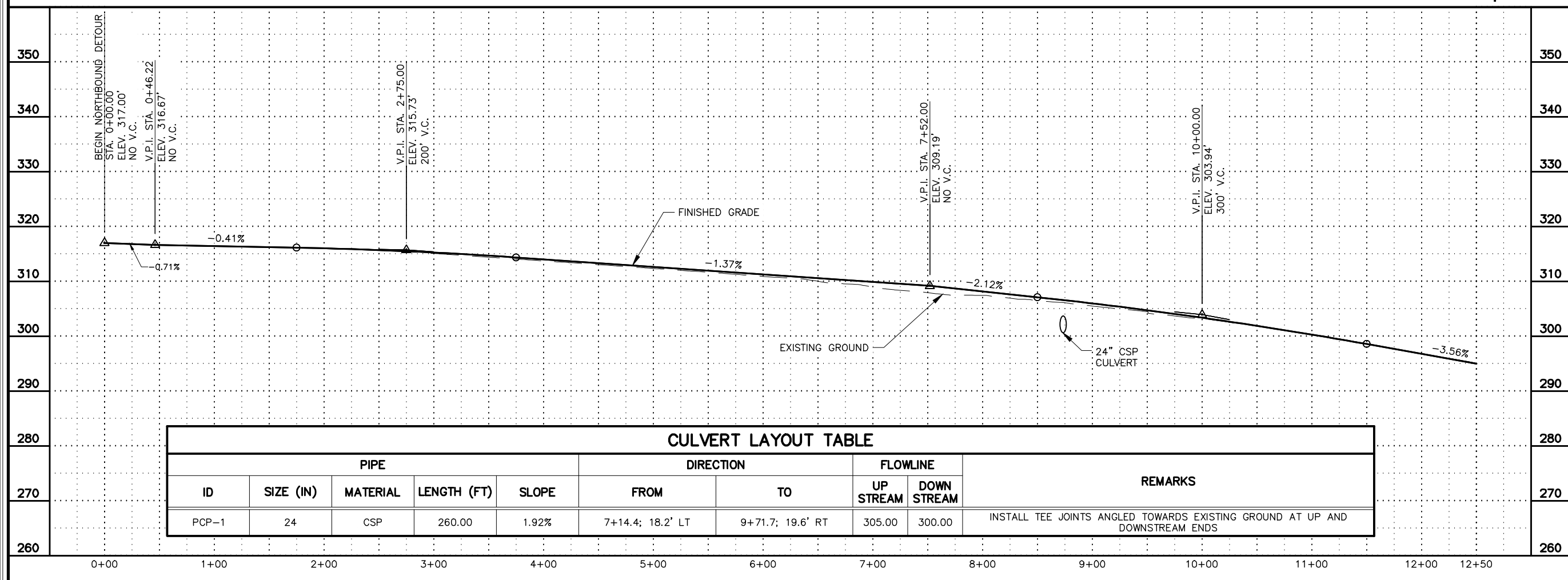


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 DATE: 3/8/2024 10:55 AM
 SCALE: 1" = 50'
 DESIGNED BY: AN
 CHECKED BY: SA
 DRAFTED BY: DD

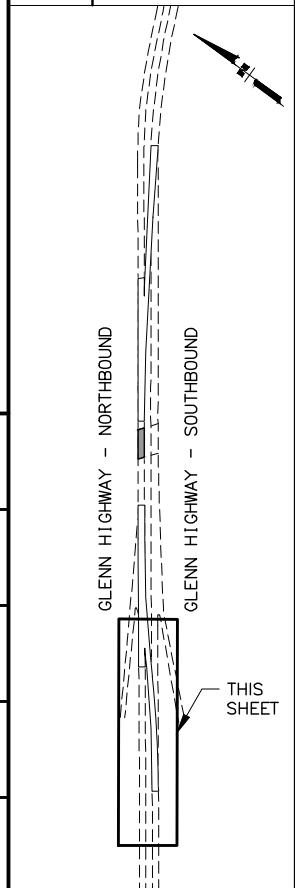
P.I. STA. 3+78.67
 Δ = 005°52'25.8"
 T = 332.45'
 L = 664.32'
 R = 6480.00'



SHEET NO.	TOTAL SHEETS
J18	J23
STATE	YEAR
ALASKA	2024
PROJECT DESIGNATION	
0001685/ CFHWY00523	
NO.	REVISION
NO.	REVISION
NO.	REVISION
NO.	REVISION



CULVERT LAYOUT TABLE									
ID	PIPE			SLOPE	DIRECTION		FLOWLINE		REMARKS
	SIZE (IN)	MATERIAL	LENGTH (FT)		FROM	TO	UP STREAM	DOWN STREAM	
PCP-1	24	CSP	260.00	1.92%	7+14.4; 18.2' LT	9+71.7; 19.6' RT	305.00	300.00	INSTALL TEE JOINTS ANGLED TOWARDS EXISTING GROUND AT UP AND DOWNSTREAM ENDS



PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
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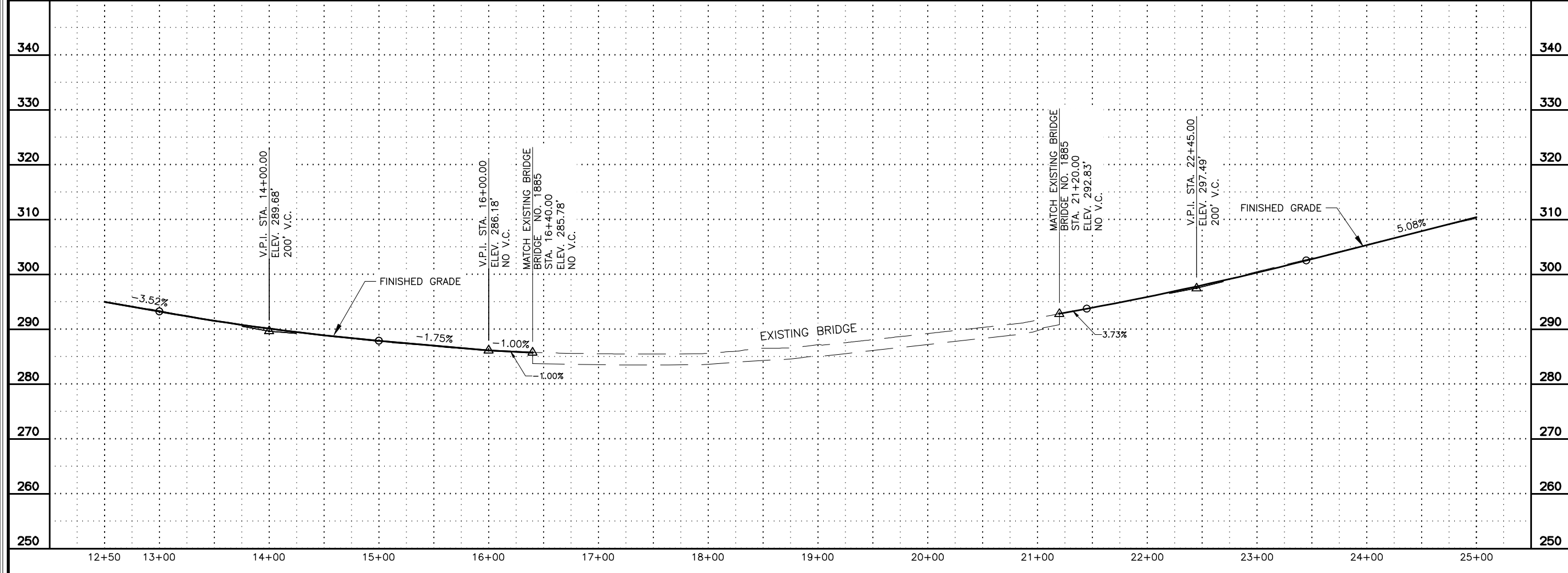
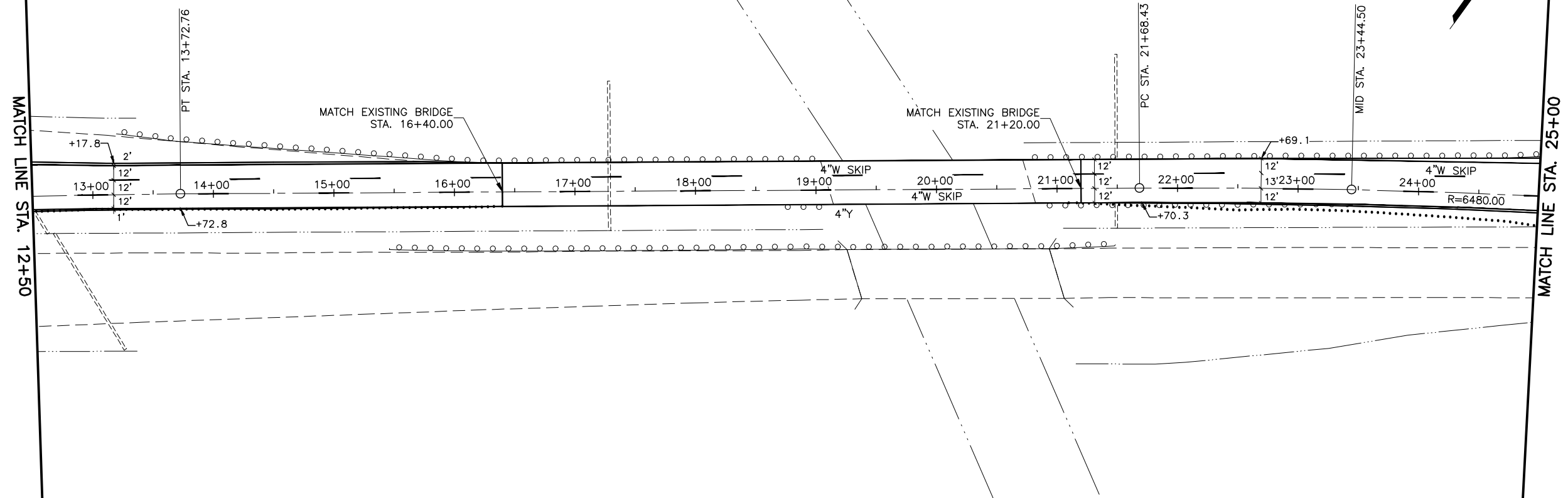
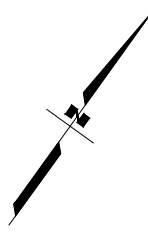
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 PETERS CREEK BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 BOD to STA. 12+50

DESIGNED BY: AN
 CHECKED BY: SA
 DRAFTED BY: DD

DATE: 3/8/2024 10:55 AM
 TIME: 10:55 AM
 SCALE: 1" = 50'

DRAWING LOCATION: D:\P\WORKSPACE\DM505217\PL-23-005-01-J PLAN SHEETS PCB.DWG

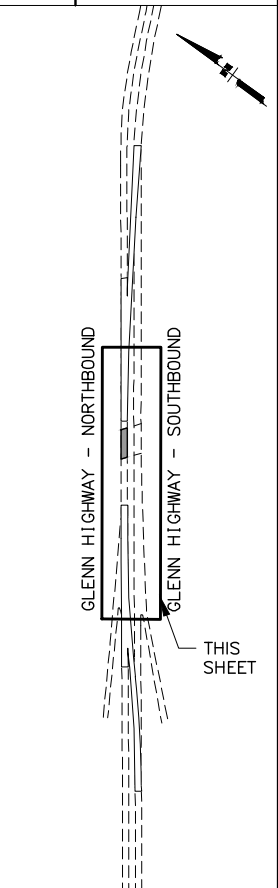
P.I. STA. 23+44.55
 * = 003'06"48.9"
 T = 176.11'
 L = 352.14'
 R = 6480.00'



SHEET NO.	TOTAL SHEETS
J19	J23
STATE	YEAR
ALASKA	2024

PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION



STATE OF ALASKA
CERTIFICATION
 DAVID J. GAMEZ
 GE-107878
 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 PETERS CREEK BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 12+50 to 25+00**

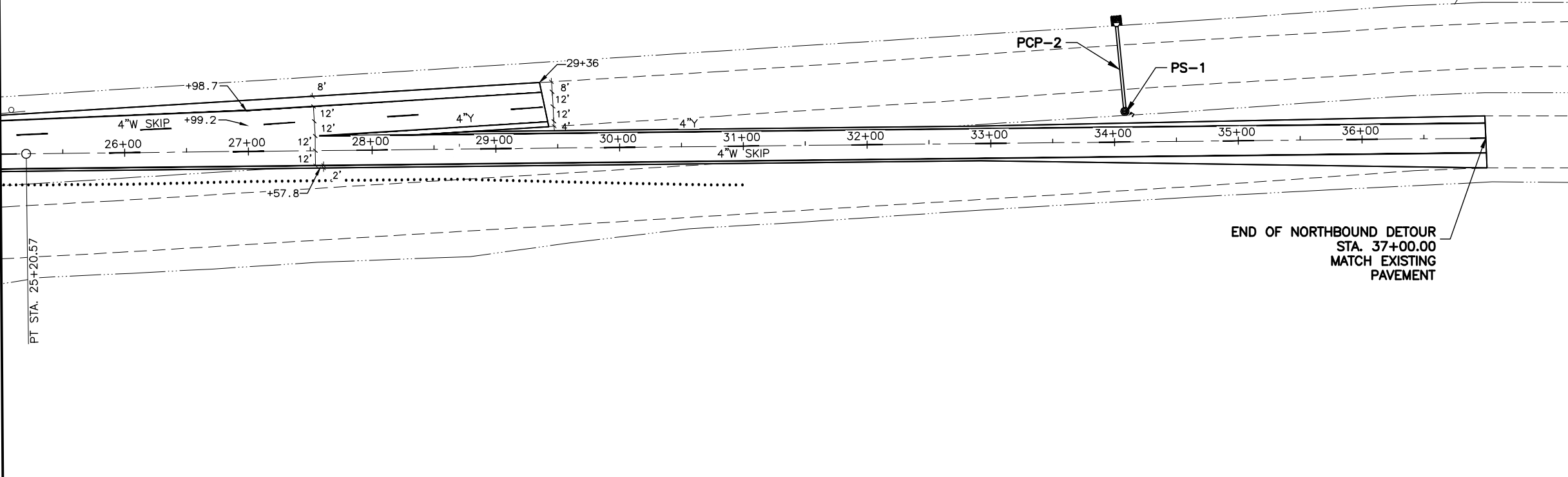
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 TIME: 10:55 AM
 SCALE: 1" = 50'
 DESIGNED BY: AN
 CHECKED BY: SA
 DRAFTED BY: DD

SHEET NO.	TOTAL SHEETS
J20	J23
STATE	YEAR
ALASKA	2024

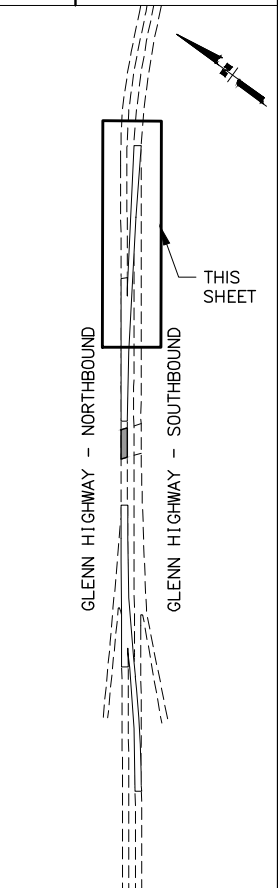
PROJECT DESIGNATION
**0001685/
 CFHWY00523**

NO.	REVISION
NO.	REVISION
NO.	REVISION
NO.	REVISION

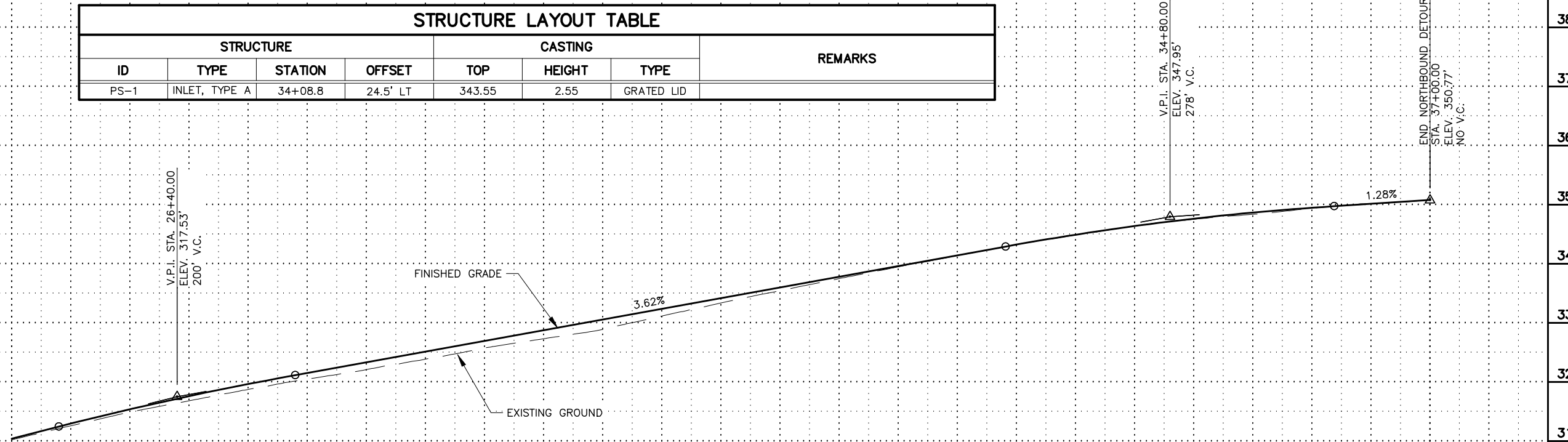
MATCH LINE STA. 25+00



END OF NORTHBOUND DETOUR
 STA. 37+00.00
 MATCH EXISTING
 PAVEMENT



STRUCTURE LAYOUT TABLE							REMARKS
STRUCTURE			CASTING				
ID	TYPE	STATION	OFFSET	TOP	HEIGHT	TYPE	
PS-1	INLET, TYPE A	34+08.8	24.5' LT	343.55	2.55	GRATED LID	



CULVERT LAYOUT TABLE									
PIPE				DIRECTION		FLOWLINE		REMARKS	
ID	SIZE (IN)	MATERIAL	LENGTH (FT)	SLOPE	FROM	TO	UP STREAM		
PCP-2	24	CSP	69.00	0.30%	PS-1	34+02.9; 93.2' LT	341.00	340.80	INSTALL METAL FLUME DOWNDRAIN WITH RIPRAP PER DETAIL ON SHEET J23

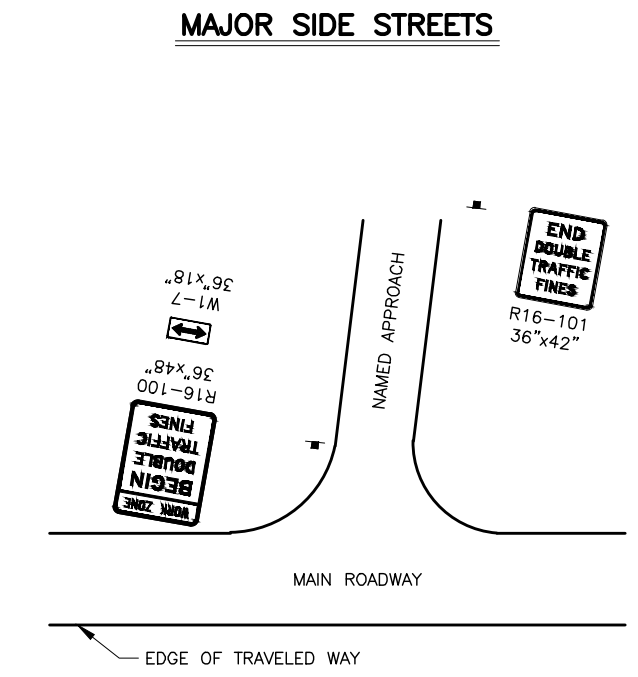
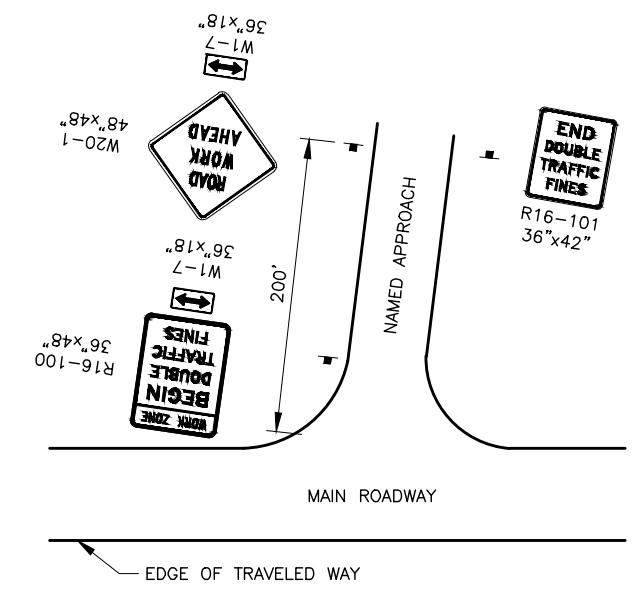
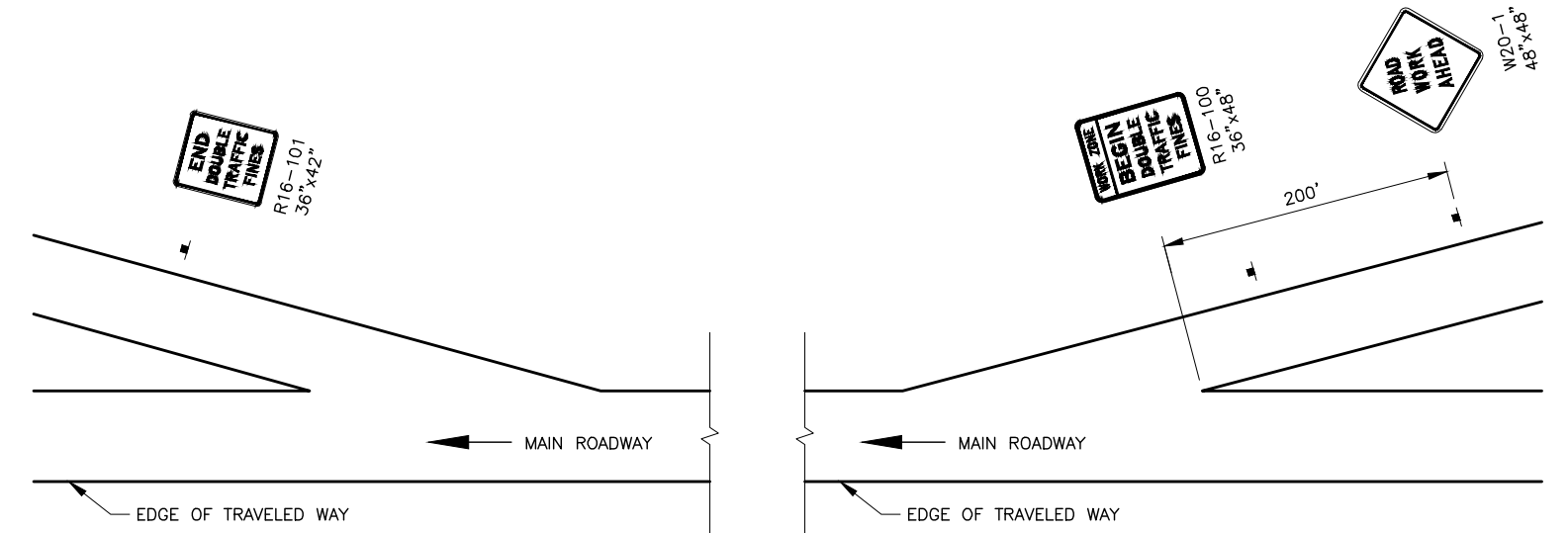
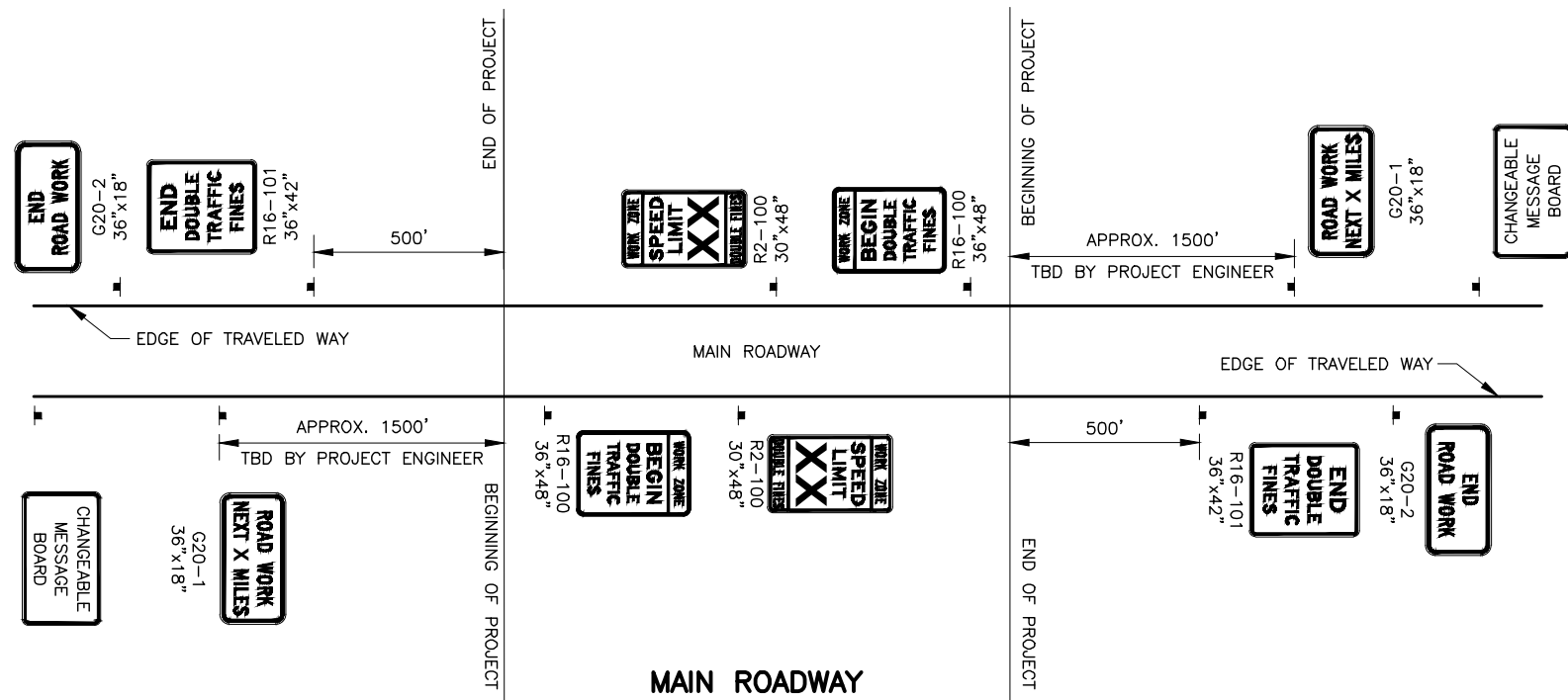
STATE OF ALASKA
 49th ANNUAL
CERTIFICATION
 DAVID J. GAMEZ
 CE-107878
 REGISTERED PROFESSIONAL ENGINEER

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3330 C ST, SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION
 PETERS CREEK BRIDGE
 NORTHBOUND DETOUR
 PLAN AND PROFILE
 STA. 25+00 to EOD**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	J21	J23

AN SA DD
 DESIGNED BY CHECKED BY DRAFTED BY
 SCALE 1" = 100'
 DATE 3/8/2024 10:55 AM
 TIME
 DRAWING LOCATION D:\PWISEFILE\DM50217\PL-23-005-01-J DETAILS.DWG



CONSTRUCTION SIGN NOTES:

1. SPEED LIMIT TO BE DETERMINED BY THE PROJECT ENGINEER.
2. SEE ALASKA STANDARD PLAN C-04 FOR SPACING OF DOUBLE FINE SIGNS AND SPEED LIMIT SIGNS.
3. CHANGEABLE MESSAGE BOARD SHALL BE USED FOR ADVANCED NOTIFICATION. LOCATION OF CHANGEABLE MESSAGE BOARDS SHALL BE DETERMINED BY THE ENGINEER.
4. CHANGEABLE MESSAGE BOARDS SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER PAY ITEM 643.0003.0000.
5. FOR W1-7 SIGNS SHOWN ON THIS SHEET, BACKGROUND SHALL BE ORANGE.

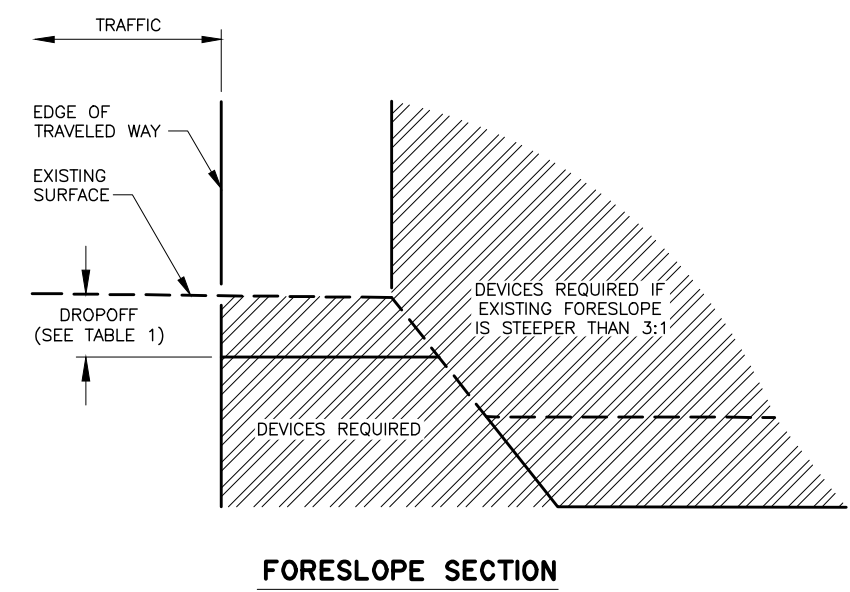
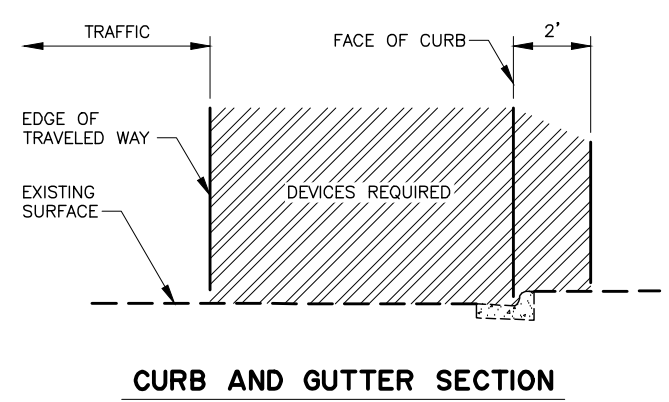
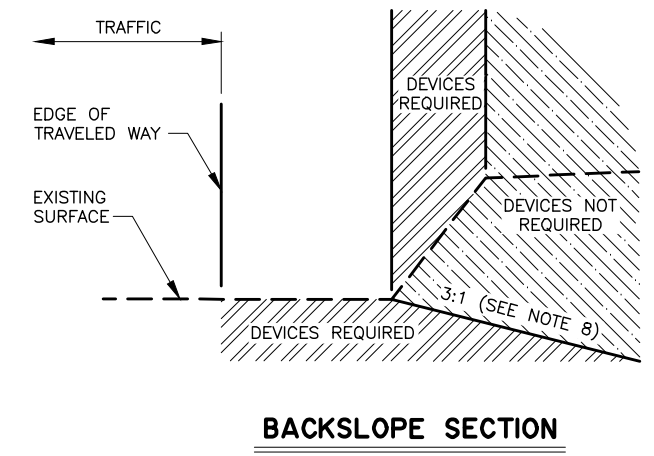
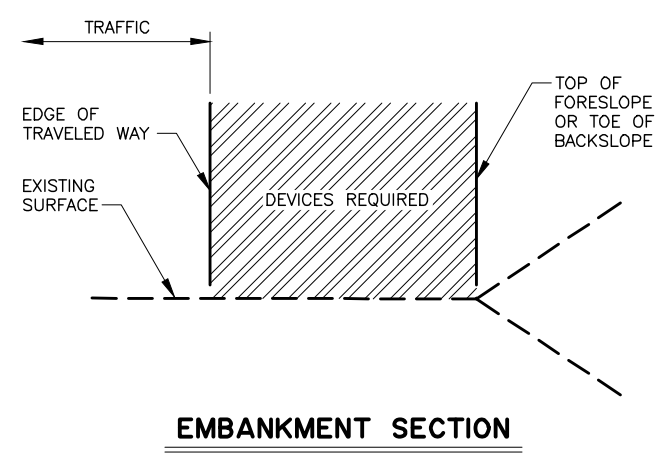


STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**

**PERMANENT
 CONSTRUCTION SIGNS
 LAYOUT**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	J22	J23

AN SA DD
 DESIGNED BY
 CHECKED BY
 DRAFTED BY
 SCALE NTS
 DATE 3/8/2024 10:55 AM
 TIME
 DRAWING LOCATION
 D:\PW\SEFILE\DMSC0217\PL-23-005-01-J DETAILS.DWG



NOTES:

- TRAFFIC CONTROL DEVICES REQUIRED BY THE GUIDELINES ON THIS SHEET ARE INTENDED FOR CONDITIONS WHICH WILL BE IN PLACE LONGER THAN ONE CONTINUOUS WORK SHIFT. AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO BEGINNING WORK.
- THE EXISTING GROUND CROSS SECTION AT A LOCATION DETERMINES WHETHER TRAFFIC CONTROL DEVICES ARE NEEDED AT THE SAME LOCATION DURING CONSTRUCTION.
- GUARDRAIL EXISTING AT A LOCATION BEFORE CONSTRUCTION SHALL REMAIN IN PLACE DURING CONSTRUCTION OR APPROVED ALTERNATE DEVICES SHALL BE INSTALLED.
- INSTALL TRAFFIC CONTROL DEVICES BETWEEN THE EDGE OF TRAVELED WAY AND THE WORK AREA ON ANY ROADWAY OPENED TO TRAFFIC WHEN REQUIRED BY THIS DRAWING.
- FOR EXISTING ROADWAY ALIGNMENTS INSTALL TRAFFIC CONTROL DEVICES WHEN WORK OCCURS IN THE "DEVICES REQUIRED" AREAS SHOWN ON THIS DRAWING.
- FOR DETOURS, TEMPORARY ROADWAYS, OR NEW ROADWAYS NOT YET COMPLETE, INSTALL TRAFFIC CONTROL DEVICES WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
 - THE PROPOSED HORIZONTAL OR VERTICAL CURVATURE IS STEEPER THAN THE EXISTING.
 - THE ROADWAY OR SHOULDER WIDTH IS LESS THAN THE EXISTING.
 - THE PROPOSED BACKSLOPE OR FORESLOPE IS STEEPER THAN THE EXISTING.
- FOR DROPOFFS, INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL AND TABLE 1.
- ON ANY NEWLY CONSTRUCTED SLOPE STEEPER THAN 4:1 BUT FLATTER THAN 3:1, PROVIDE A TEN FOOT FLAT RECOVERY AREA AT THE TOE OF SLOPE OR INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL.
- TRAFFIC CONTROL DEVICE REQUIREMENTS:
 - ON ROADWAYS WITH A SPEED LIMIT GREATER THAN 40 MILES PER HOUR OR AVERAGE DAILY TRAFFIC VOLUME GREATER THAN 4000 VEHICLES PER DAY, INSTALL TEMPORARY PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL. ON MULTI-LANE ROADWAYS, CLOSE THE LANE CLOSEST TO THE WORK AREA AND INSTALL DRUMS.
 - TEMPORARY CRASH ATTENUATOR.
 - RIGID TO SEMI-RIGID GUARDRAIL TRANSITION WITH AN APPROVED CRASHWORTHY END TREATMENT.
 - TERMINATE RUNS OF TEMPORARY PORTABLE CONCRETE BARRIER USING ONE OF THE FOLLOWING TWO METHODS:
 - TEMPORARY CRASH ATTENUATOR.
 - RIGID TO SEMI-RIGID GUARDRAIL TRANSITION WITH AN APPROVED CRASHWORTHY END TREATMENT.
 - TERMINATE RUNS OF TEMPORARY GUARDRAIL USING EITHER OF THE FOLLOWING TWO METHODS:
 - AN APPROVED CRASHWORTHY END TREATMENT.
 - FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 15:1 ON A TRANSVERSE SLOPE OF 10:1 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE.
 - ON ALL OTHER ROADWAYS, INSTALL TYPE II BARRICADES, DRUMS OR DELINEATORS WHEN DEVICES ARE REQUIRED. SPACE THE DEVICES IN ACCORDANCE WITH THE REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL.
- DO NOT CONSTRUCT VERTICAL DROPOFFS GREATER THAN 1.5" WITHIN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK. PROVIDE 2' OF SHY DISTANCE FROM EDGE OF ALL TRAFFIC CONTROL DEVICES TO THE EDGE OF THE TRAVELED WAY.

**TABLE 1
TRAFFIC CONTROL DEVICES REQUIRED FOR VERTICAL DROPOFFS
≤ 4 FEET FROM THE TRAVELED WAY ***

ROADWAY TYPE	DROPOFF ≤ 2"	2" < DROPOFF < 12"	DROPOFF ≥ 12"
AVERAGE DAILY TRAFFIC > 4000 OR SPEED > 40 MPH	TAPER ASPHALT AT 1:1 (45°)	TYPE II BARRICADES OR DRUMS	TEMPORARY PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL
ALL OTHER ROADWAYS	NONE REQUIRED	TUBULAR CANDLES OR DELINEATORS	TYPE II BARRICADES OR DRUMS

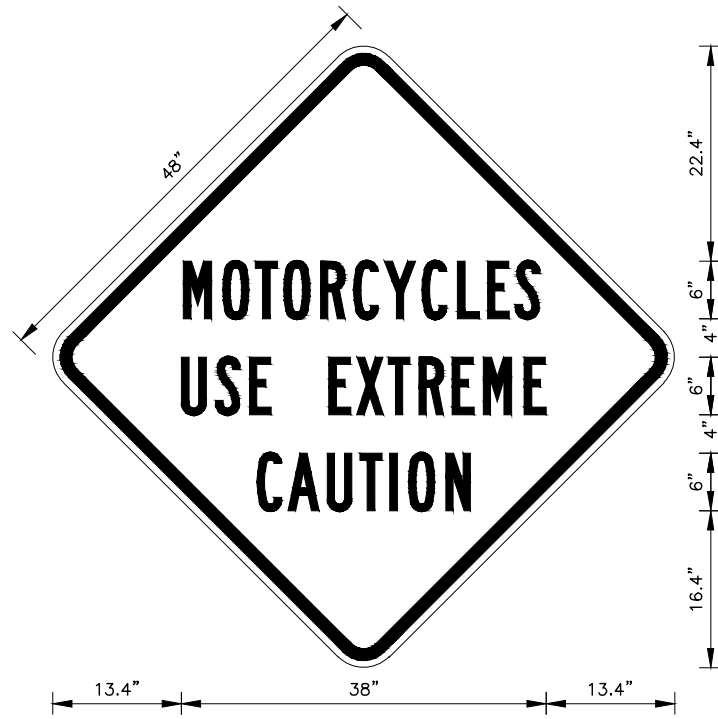
SPACE THE DEVICES IN ACCORDANCE WITH REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**GLENN HIGHWAY BRIDGE
 DECK PRESERVATION**
 TRAFFIC CONTROL DEVICES
 FOR ROADSIDES

PLANS DEVELOPED BY:
 LOUNSBURY & ASSOCIATES INC.
 3230 C ST., SUITE 201,
 ANCHORAGE, AK 99503
 (907)272-5451
 CERT. OF AUTHORITY NO. AECC391

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001685/CFHWY00523	2024	J23	J23



MOTORCYCLE CAUTION SIGN

MOTORCYCLE CAUTION NOTES:

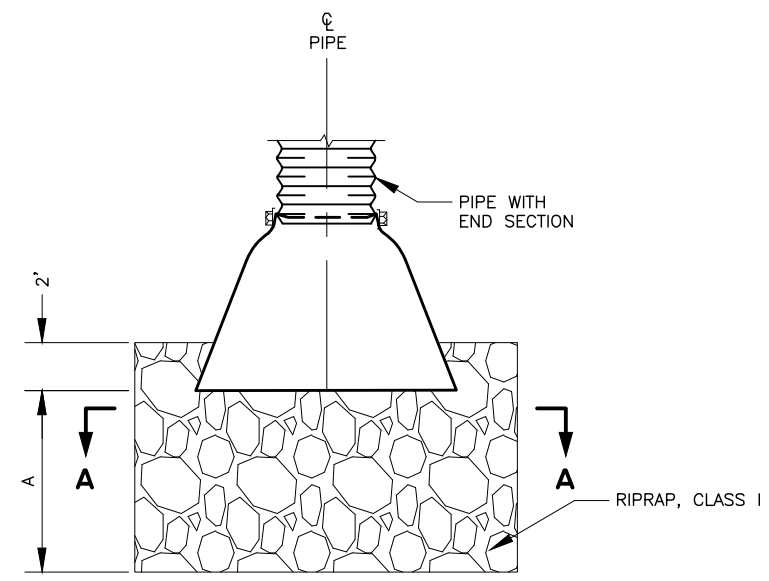
1. BORDER DIMENSIONS: R=3", TH=1.25", IN=0.75"
2. PROVIDE XX EACH ON WINDMASTER STANDS AS MOVEABLE CONSTRUCTION SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.



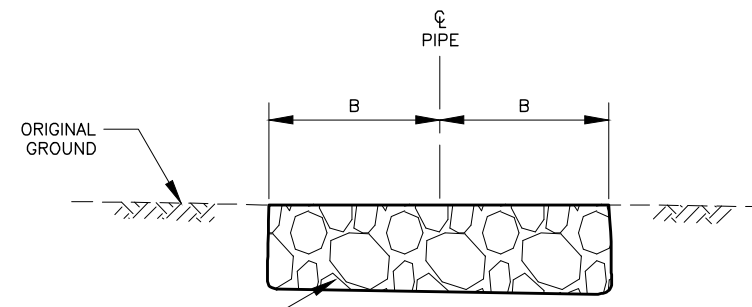
GROOVED PAVEMENT SIGN

GROOVED PAVEMENT NOTES:

1. BORDER DIMENSIONS: R=3", TH=1.25", IN=0.75"
2. PROVIDE XX EACH ON WINDMASTER STANDS AS MOVEABLE CONSTRUCTION SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.



SECTION A-A



PLAN

RIPRAP ENERGY DISSIPATER

NOTES:

1. SEE STD. DWG D-06.10 FOR ADDITIONAL GENERAL NOTES AND DIMENSIONS.
2. RIPRAP SLOPE SHALL BE 2:1 OR FLATTER.
3. INSTALL AN ENERGY DISSIPATER AT THE OUTLET IN CONJUNCTION WITH CULVERT INSTALLATION WHERE SHOWN ON PLANS. ENERGY DISSIPATERS ARE PERMANENT FEATURES AND SHALL BE LEFT IN PLACE.

RIPRAP DIMENSIONS FOR DOWNDRAIN		
PIPE DIAMETER (INCHES)	DIMENSIONS IN INCHES	
	A	B
24	5'	4'
36	7.5'	5'
42	10'	6'



PROJECT INFORMATION SIGN

PROJECT INFORMATION NOTES:

1. SIGN FONT: SERIES 2000
2. PROVIDE XX EACH ON 4"x4" POSTS AS PERMANENT CONSTRUCTION SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**GLENN HIGHWAY BRIDGE
DECK PRESERVATION**

**PERMANENT
CONSTRUCTION SIGNS
AND METAL FLUME DOWNDRAIN**

DRAWING LOCATION: D:\PWISEFILE\DM50217\PL-23-005-01-J DETAILS.DWG

DATE: 3/8/2024 10:55 AM
SCALE: NTS
DESIGNED BY: SA
CHECKED BY: SA
DRAFTED BY: DD

ESTIMATE OF QUANTITIES							
ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	KNIK RIVER NB #1121	PETERS CK. NB #1155	KNIK RIVER SB #1885	TOTAL QUANTITY
202.0001.0000	Removal of Structures and Obstructions, De-icing System	LS	LS	1	---	1	2
205.0006.0000	Structural Fill	CY	CY	112	---	112	224
501.0002.0000	Class A-A Concrete	LS	CY	69.9	1.3	69.9	141.1
503.0002.0000	Epoxy-Coated Reinforcing Steel	LS	LBS	14,260	550	14,260	29,070
507.2000.0000	Steel Bridge Railing Replacement, 2-Tube	LF	LF	---	361.5	---	361.5
507.2000.0000	Steel Bridge Railing Replacement, Concrete Bridge Barrier	LF	LF	80	---	80	160
510.0001.0000	Removal of Concrete Bridge Deck	SF	SF	58,222	6,647	58,222	123,091
510.2001.0000	Bridge Deck Repair	CS	SF	5,800	700	5,800	12,300
516.0001.0003	Expansion Joints, Modular Bridge Joint System	LF	LF	43	---	43	86
516.0001.0004	Expansion Joints, Precompressed Silicone Coated	LF	LF	---	44	---	44
525.2001.0000	Polyester Concrete Overlay	LS	SF	58,222	6,647	58,219	123,088
606.0016.0000	Transition Rail	EA	EA	4	4	4	12

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

GENERAL NOTES

DESIGN:..... AASHTO LRFD Bridge Design Specifications, 2020 Edition, with latest interim specifications.

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

CONCRETE:..... Class A-A Concrete unless otherwise noted, f'c = 5000 psi

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.

PRELIMINARY PLAN
REHABILITATION

ABBREVIATIONS:


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

R:\cad\Glenn Hwy\121-ESTIMATE_Thu, Mar/09/23 09:18am

DESIGNED BY: Ben Still	CHECKED: Leslie Daugherty	LAYOUT BY: Ben Still	CHECKED BY: Leslie Daugherty
DRAWN BY: Javier De Leon	CHECKED: Ben Still	SPECIFICATIONS BY: Ben Still	P S & E COMPARED: Leslie Daugherty
QUANTITIES BY: Ben Still	CHECKED: Leslie Daugherty	APPROVAL RECOMMENDED BY: Leslie Daugherty	

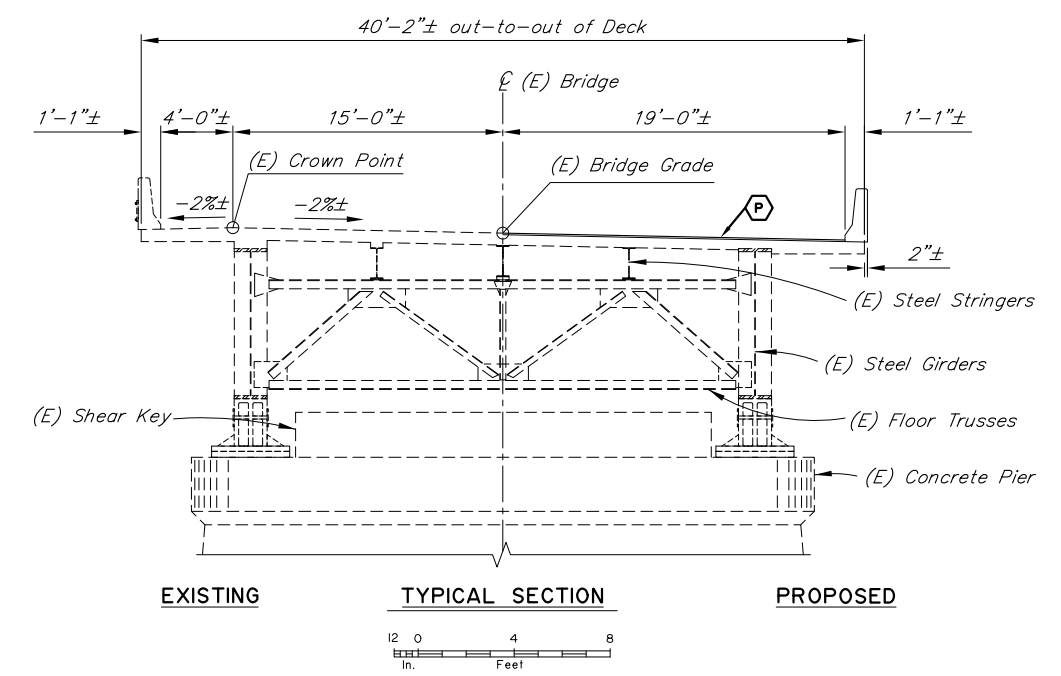
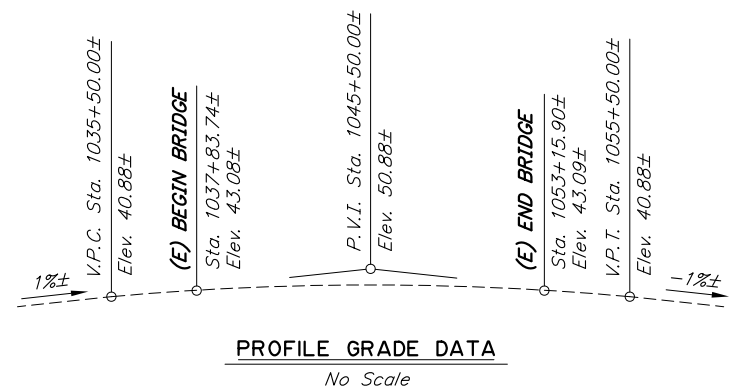
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

**GLENN HIGHWAY BRIDGE DECK
PRESERVATION**
GLENN HIGHWAY
GENERAL LAYOUT

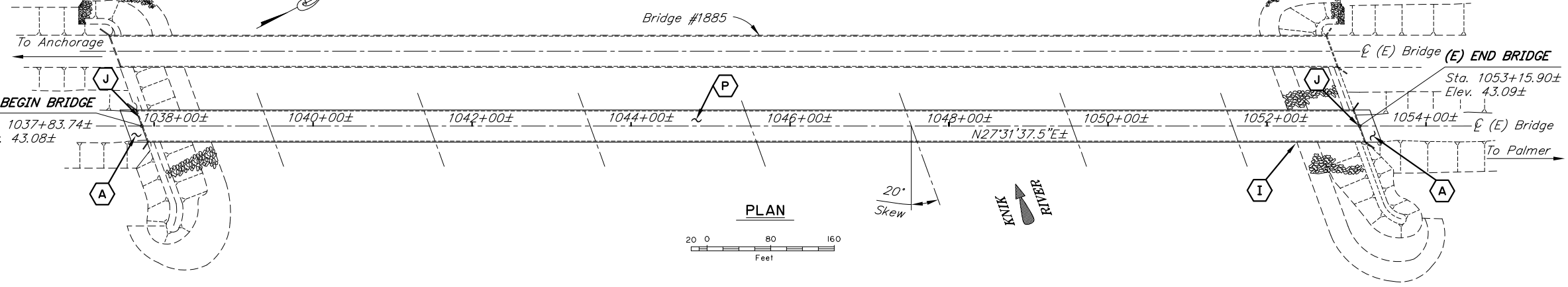
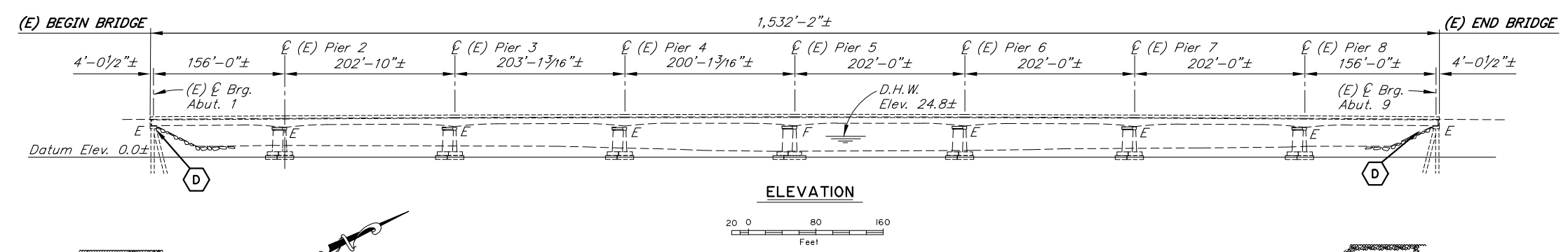


BRIDGE NO. _____
DWG. NO. _____

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N2	N24



BRIDGE DRAWING INDEX	
TITLE	DWG. NO.
GENERAL LAYOUT	1
DECK DETAILS	2
EXISTING EXPANSION JOINT 1	3
EXISTING EXPANSION JOINT 2	4
EXPANSION JOINT	5
APPROACH SLABS	6
CONCRETE BARRIER	7
THREE BEAM TRANSITION	8



LEGEND	
	Install Approach Slab
	Remove Debris
	Remove De-Icing System
	Replace Finger Joint
	Place Polyester Concrete Overlay

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
- Bridge stations and elevations are based on 1998 as-built drawings.
 - For project stations and elevations, see roadway sheets.
 - Verify controlling field dimensions before ordering or fabricating any material.

PRELIMINARY PLAN

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

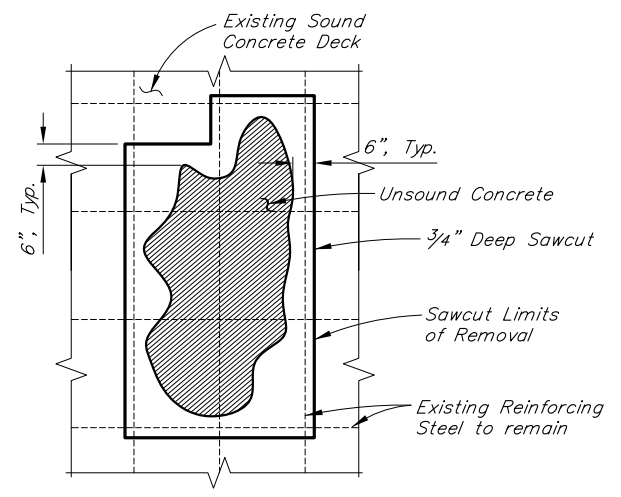
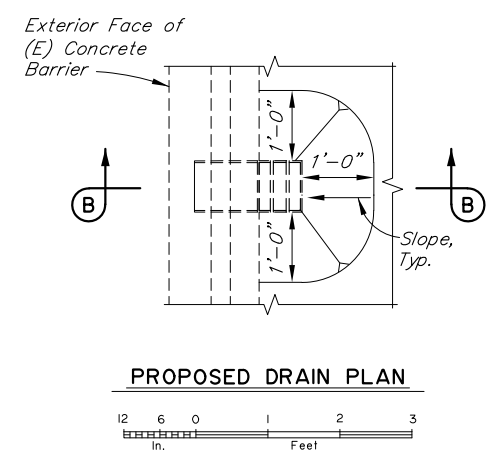
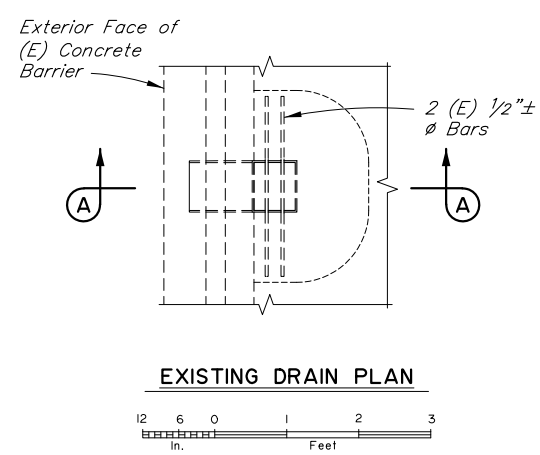
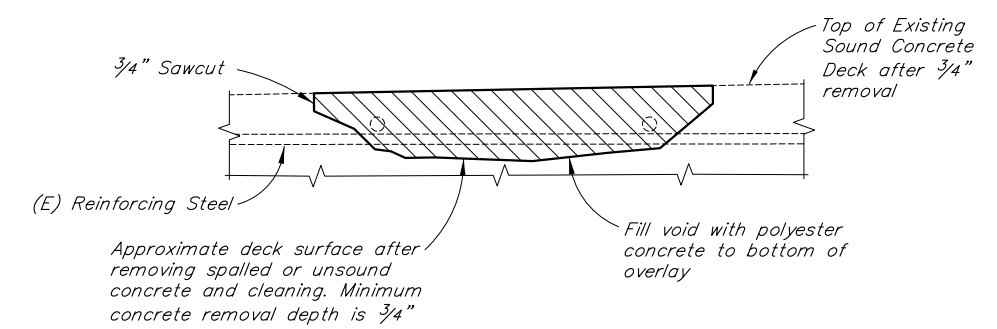
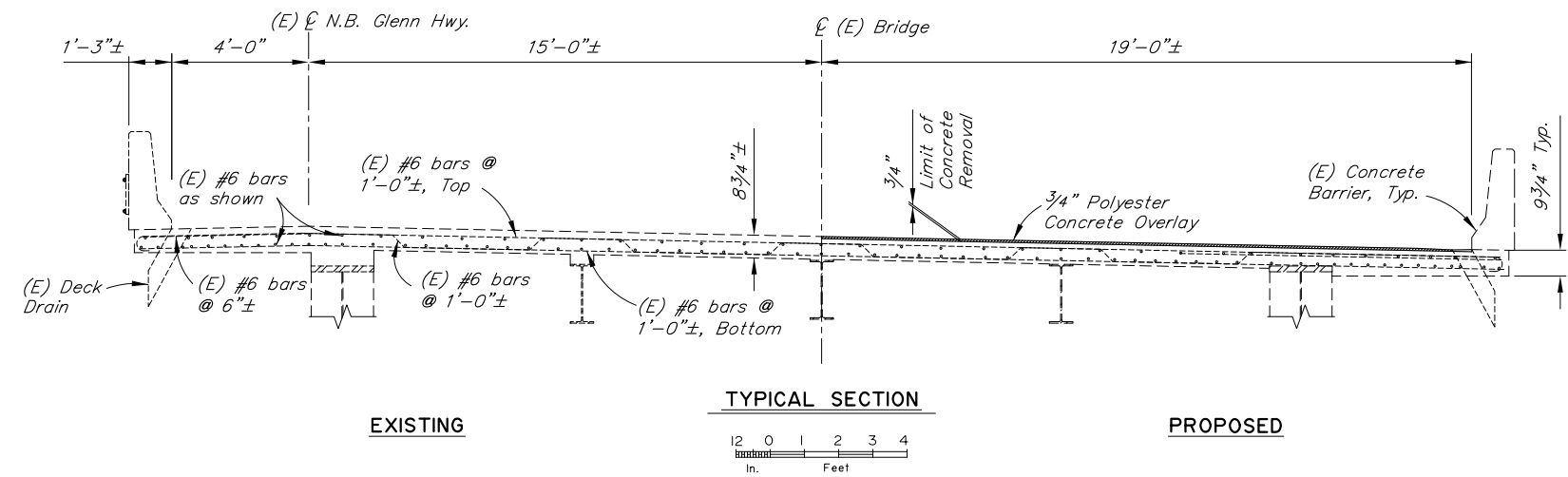
KNIK RIVER NORTHBOUND
GLENN HIGHWAY
GENERAL LAYOUT



BRIDGE NO. 1121
DWG. NO. 1

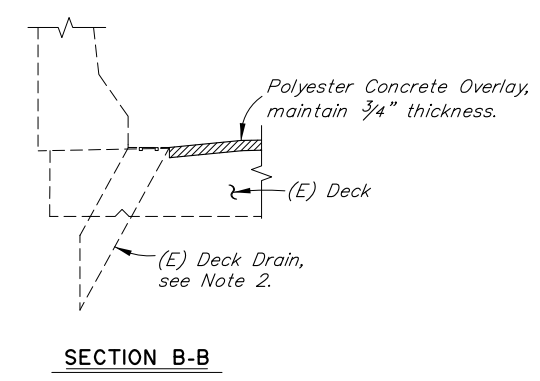
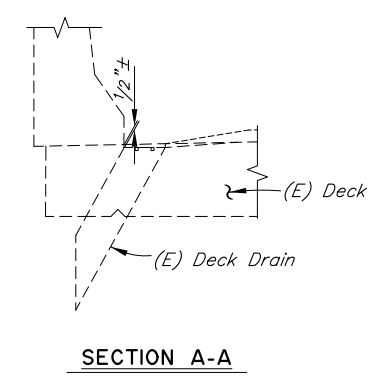
R:\cad\Glenn Hwy\1121-GEN Thu, Mar/09/23 09:18am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N3	N24



PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.
 2. Ensure deck drains are clear.




R:\cad\Glenn Hwy\1121-DECK DETAILS Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

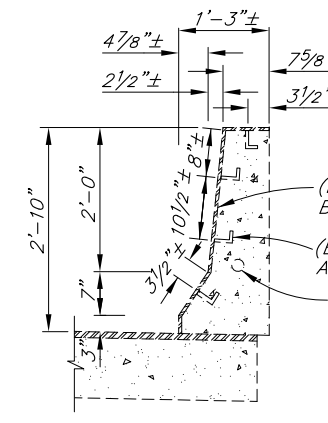
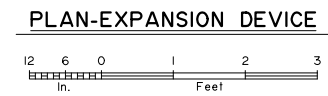
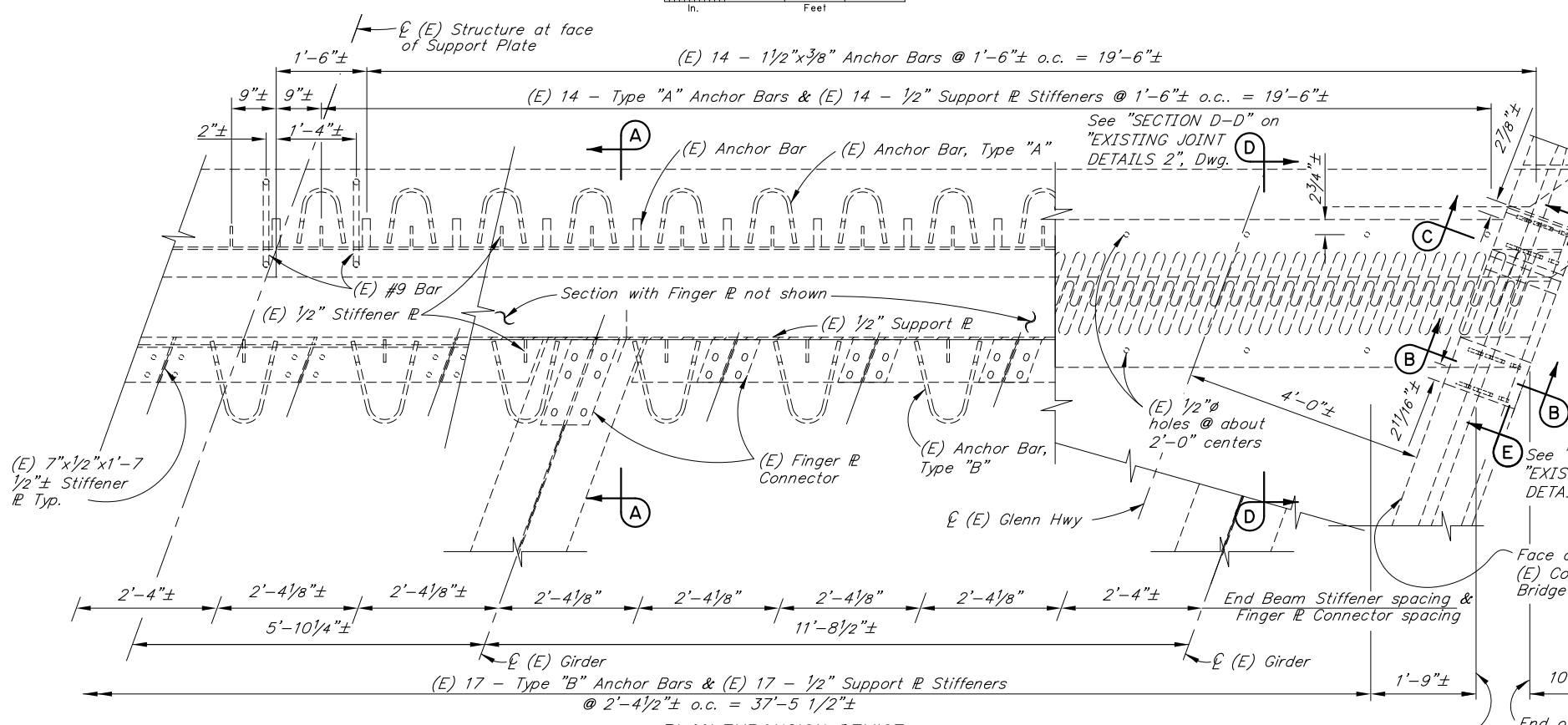
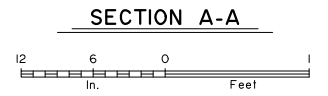
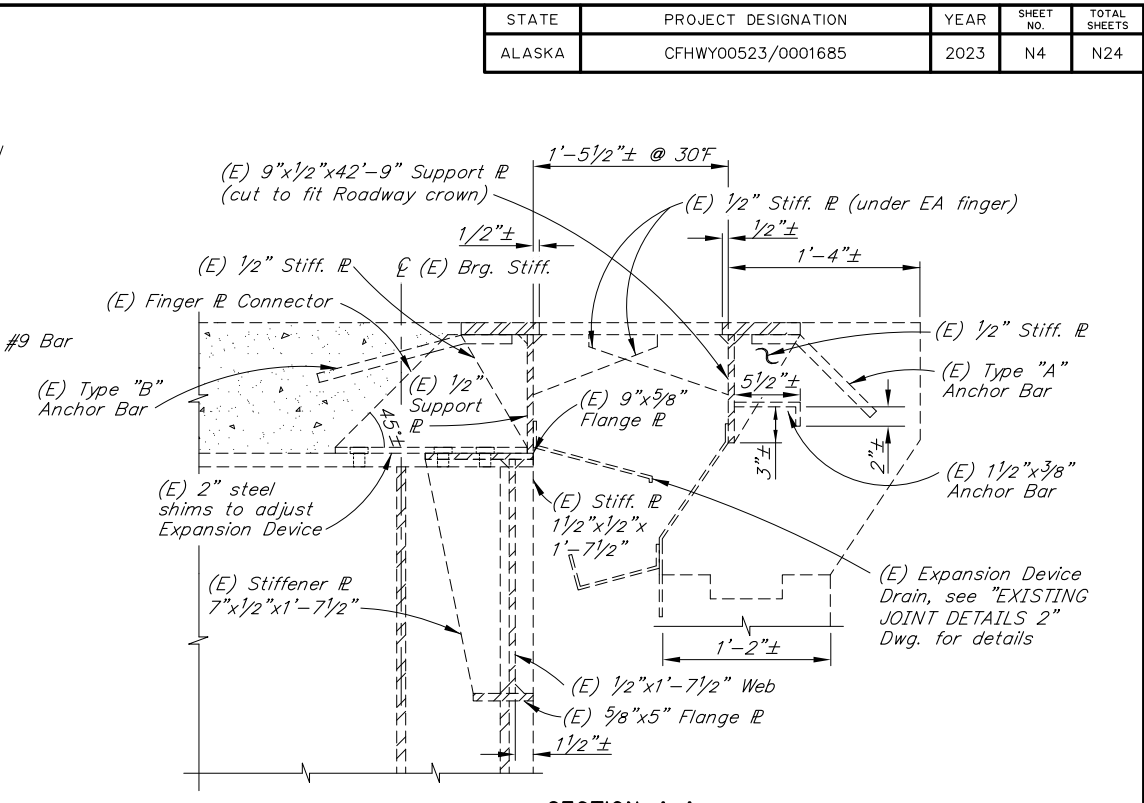
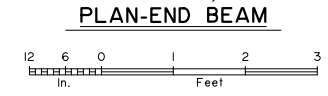
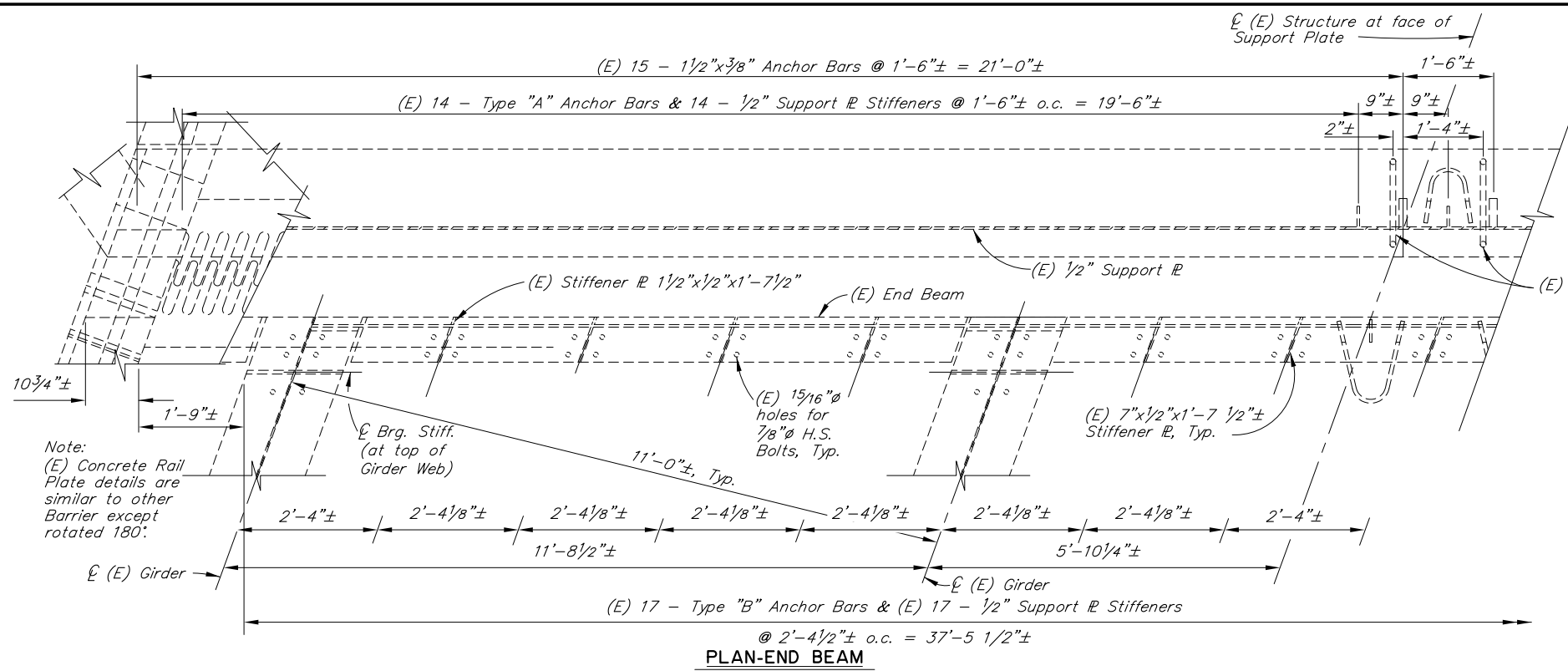
REHABILITATION

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

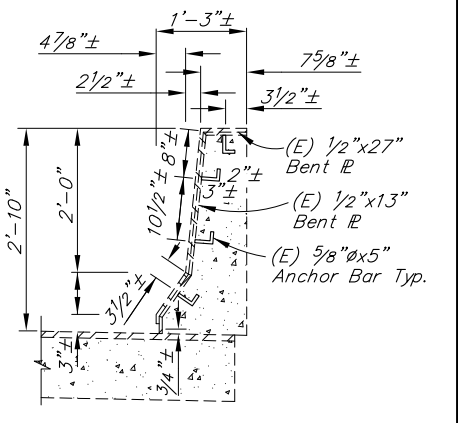
KNIK RIVER NORTHBOUND
GLENN HIGHWAY
DECK DETAILS


BRIDGE NO. 1121
DWG. NO. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N4	N24



SECTION B-B
No Scale



SECTION C-C
No Scale

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.
 2. Ensure deck drains are clear.

R:\cad\Glenn Hwy\1121-E JOINT Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

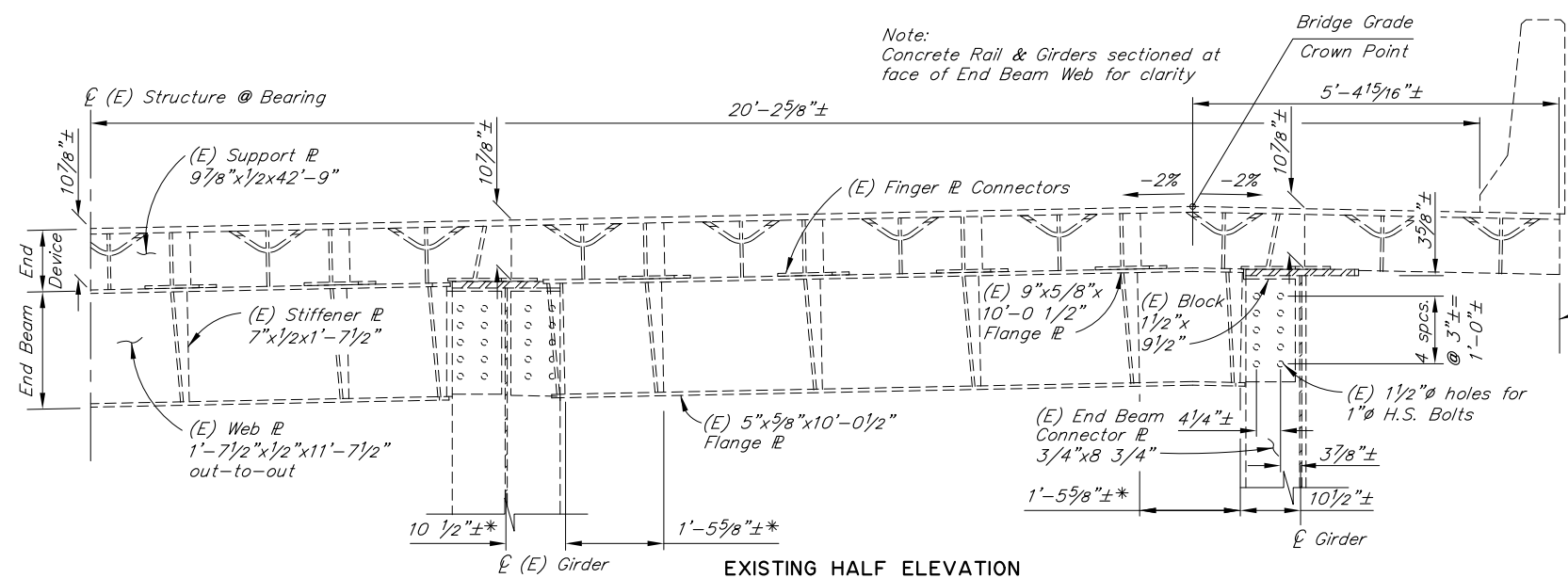
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

KNIK RIVER NORTHBOUND
GLENN HIGHWAY
EXISTING JOINT DETAILS 1



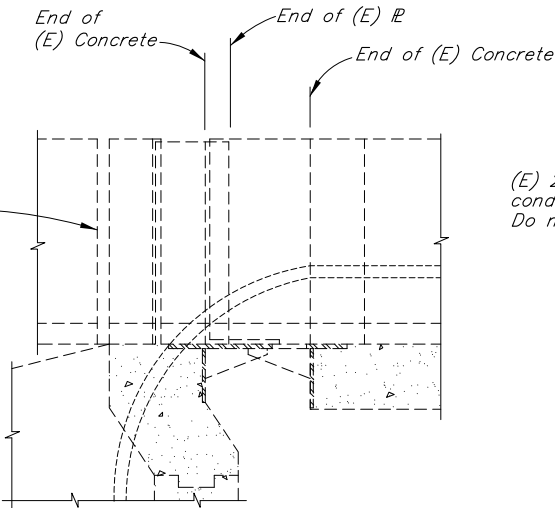
BRIDGE NO. 1121
DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N5	N24



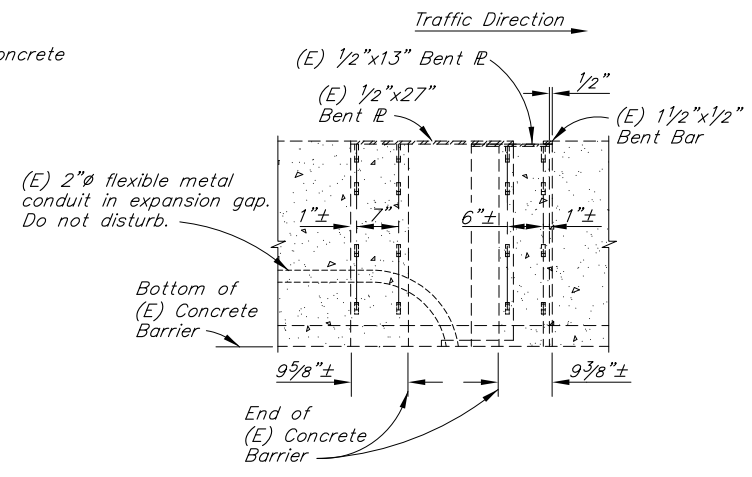
EXISTING HALF ELEVATION

* Dimensions @ End Beam
 12 6 0 1 2 3
 In. Feet



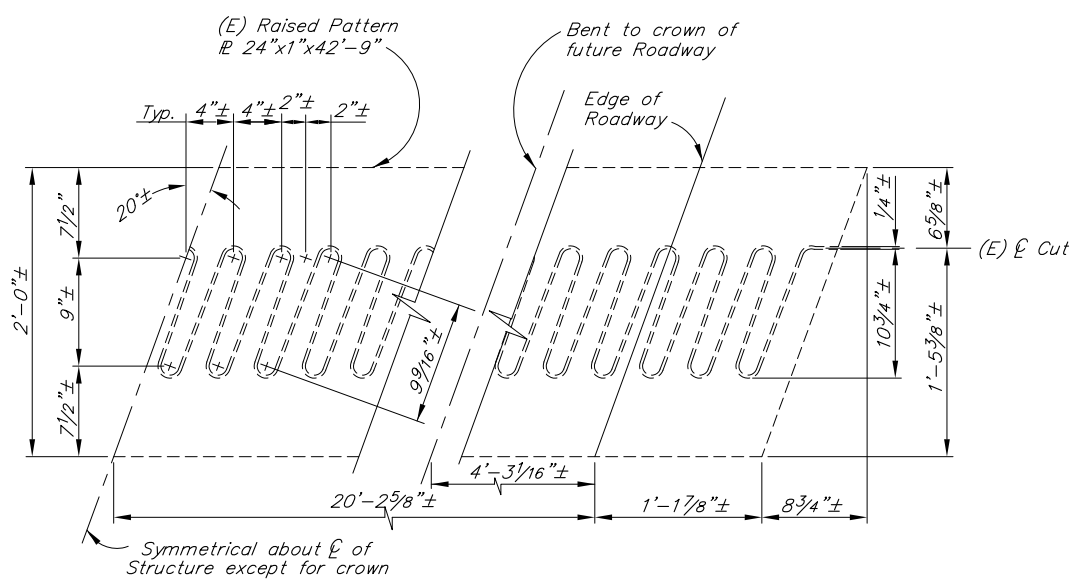
SECTION D-D

12 6 0 1 2 3
 In. Feet



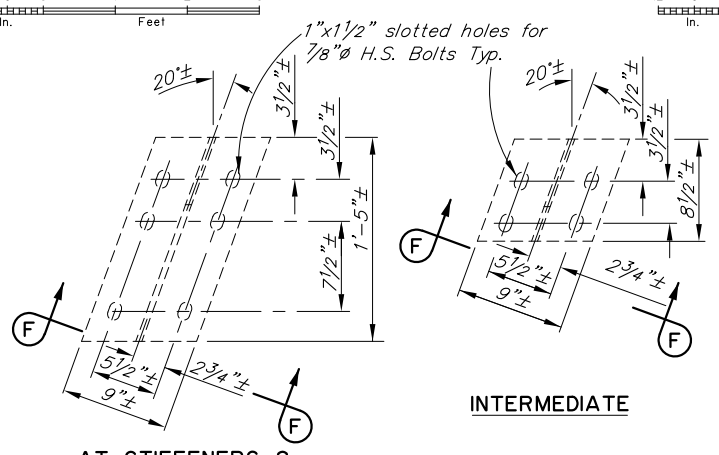
SECTION E-E

12 6 0 1 2 3
 In. Feet



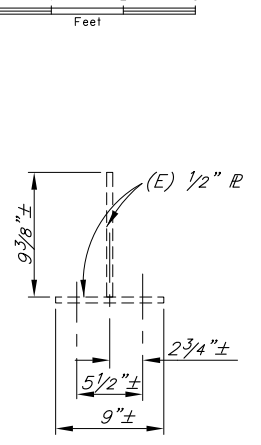
FINGER PLATE DETAIL

12 6 0 1
 In. Feet



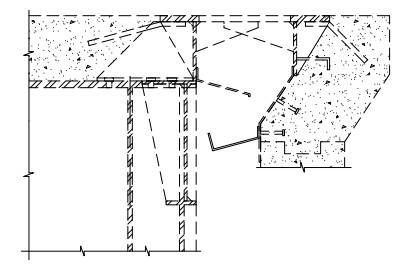
FINGER & CONNECTOR PLATE DETAIL

12 6 0 1
 In. Feet



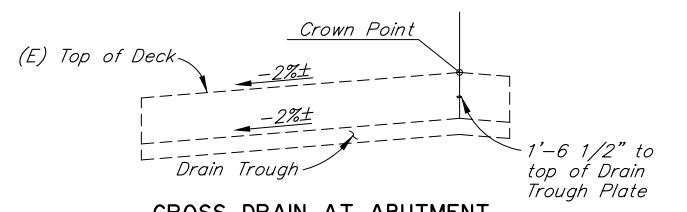
VIEW F-F

12 6 0 1
 In. Feet



EXPANSION DEVICE CROSS DRAIN

No Scale



CROSS DRAIN AT ABUTMENT

No Scale

PRELIMINARY PLAN

NOTES:

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

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

R:\cad\Glenn Hwy\1121-E JOINT2.Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

KNIK RIVER NORTHBOUND
 GLENN HIGHWAY
EXISTING JOINT DETAILS 2

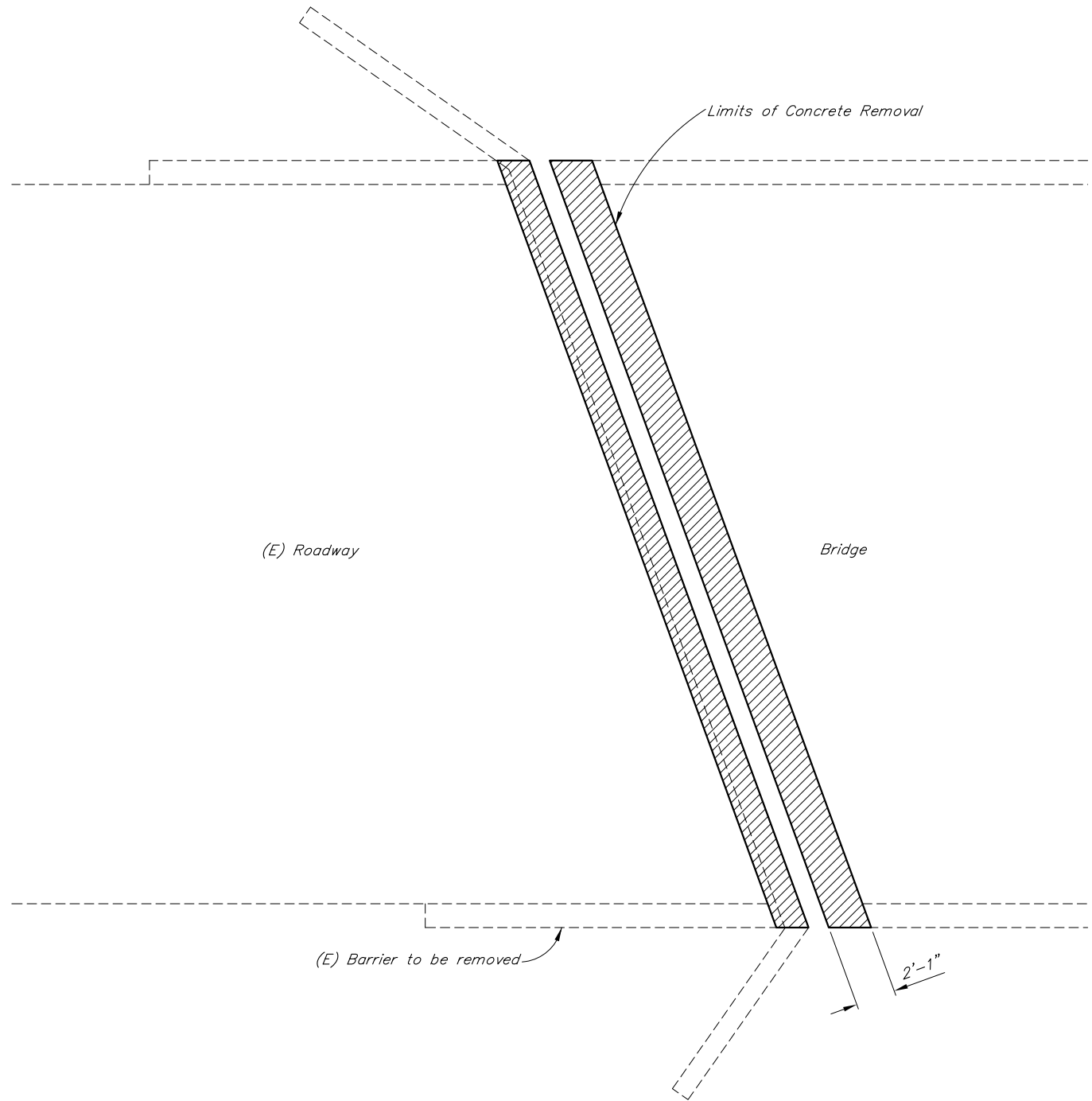


BRIDGE NO. 1121
 DWG. NO. 4

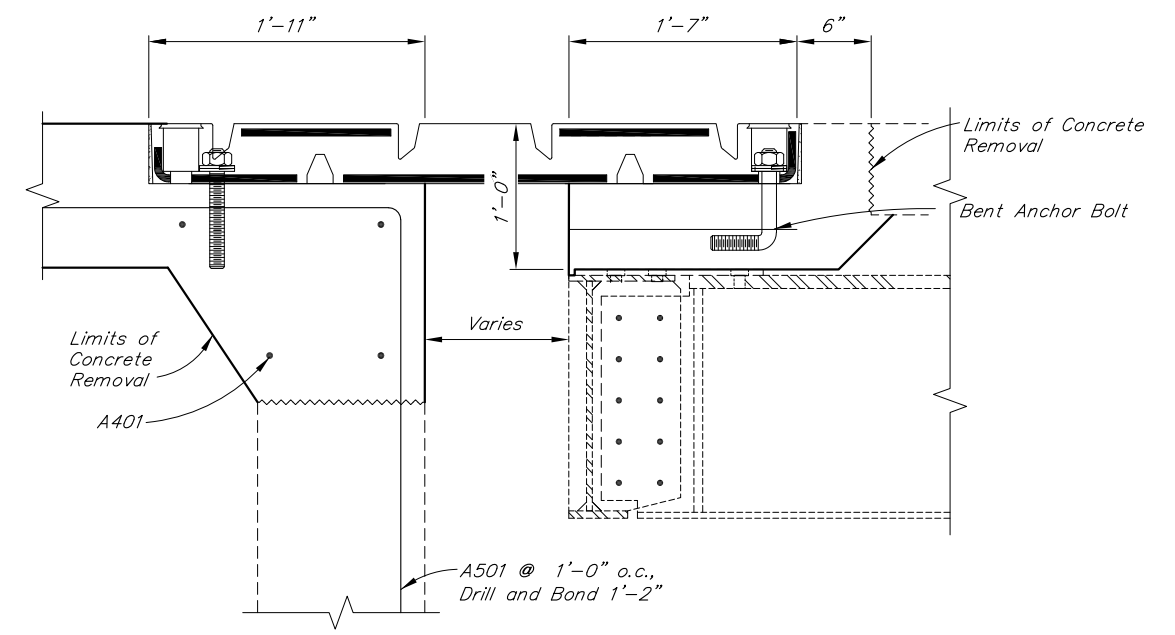
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N6	N24

REINFORCING STEEL - ABUTMENT I						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401	E	4	39	5'-5"	BENT	
A501	E	5	4	39'-10"	---	

A501
E - Epoxy-Coated



EXISTING PLAN
(Abutment 1 shown, Abutment 8 similar)



PROPOSED EXPANSION JOINT
(Stringer Shown, Girder Similar)

ABUTMENT JOINT WIDTH	
JOINT WIDTH (IN)	TEMPERATURE
1'-0"	30F
11 ⁷ / ₁₆ "	40F
10 ³ / ₁₆ "	50F
10 ¹ / ₄ "	60F
9 ⁹ / ₈ "	70F
9 ¹ / ₁₆ "	80F

Adjust by 9/16" per 10F for temperatures not shown

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.


R:\cad\Glenn Hwy\1121-JOINT.Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

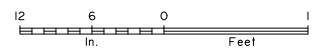
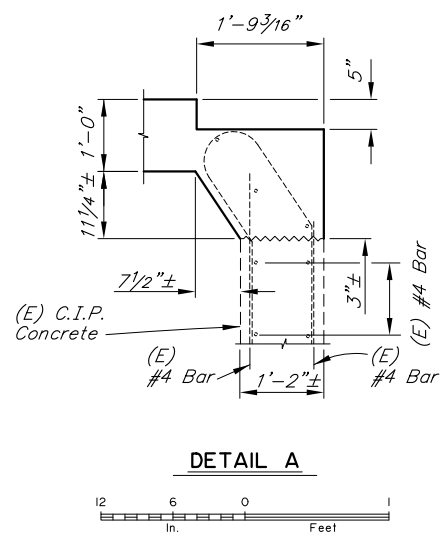
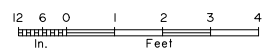
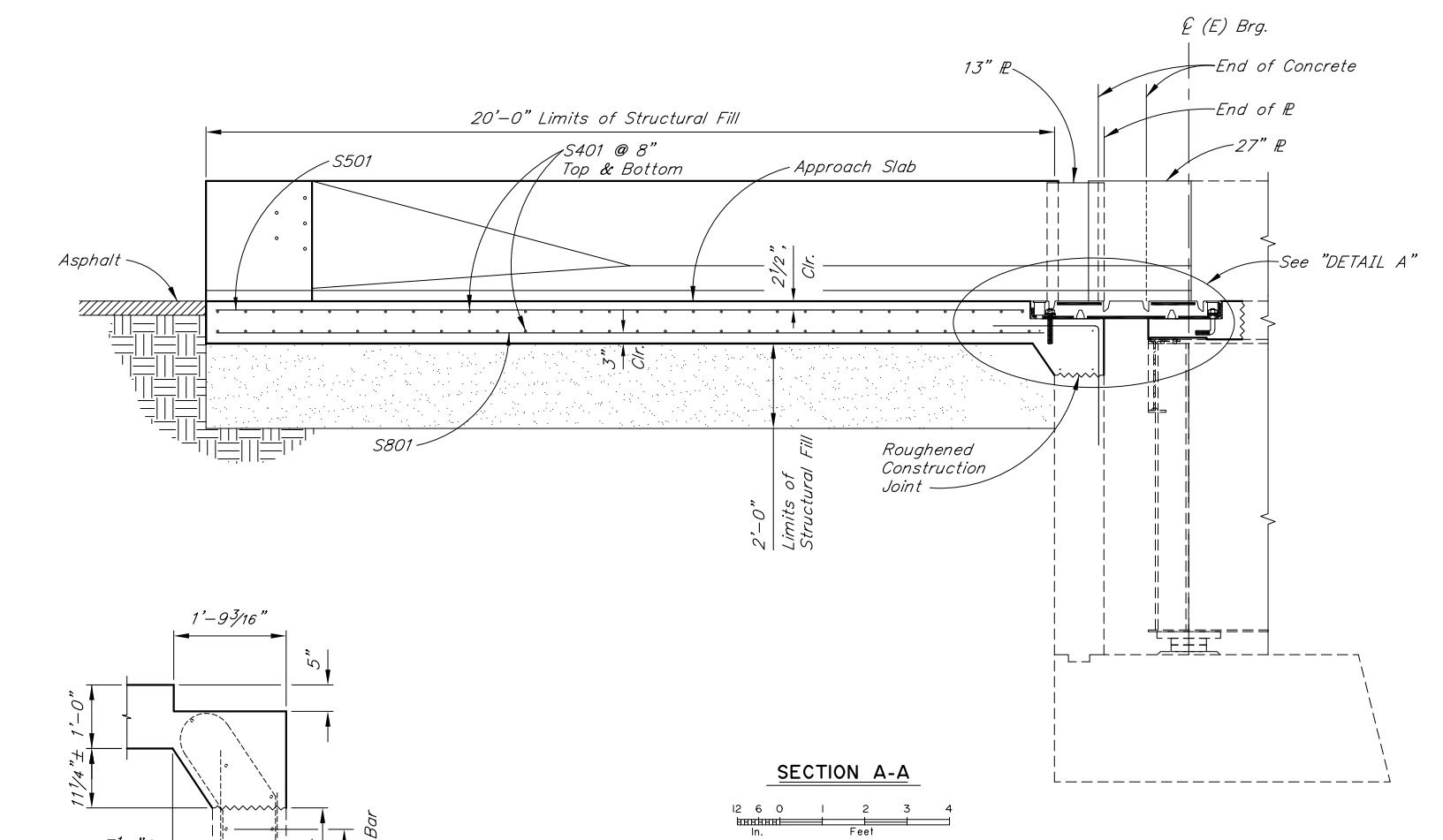
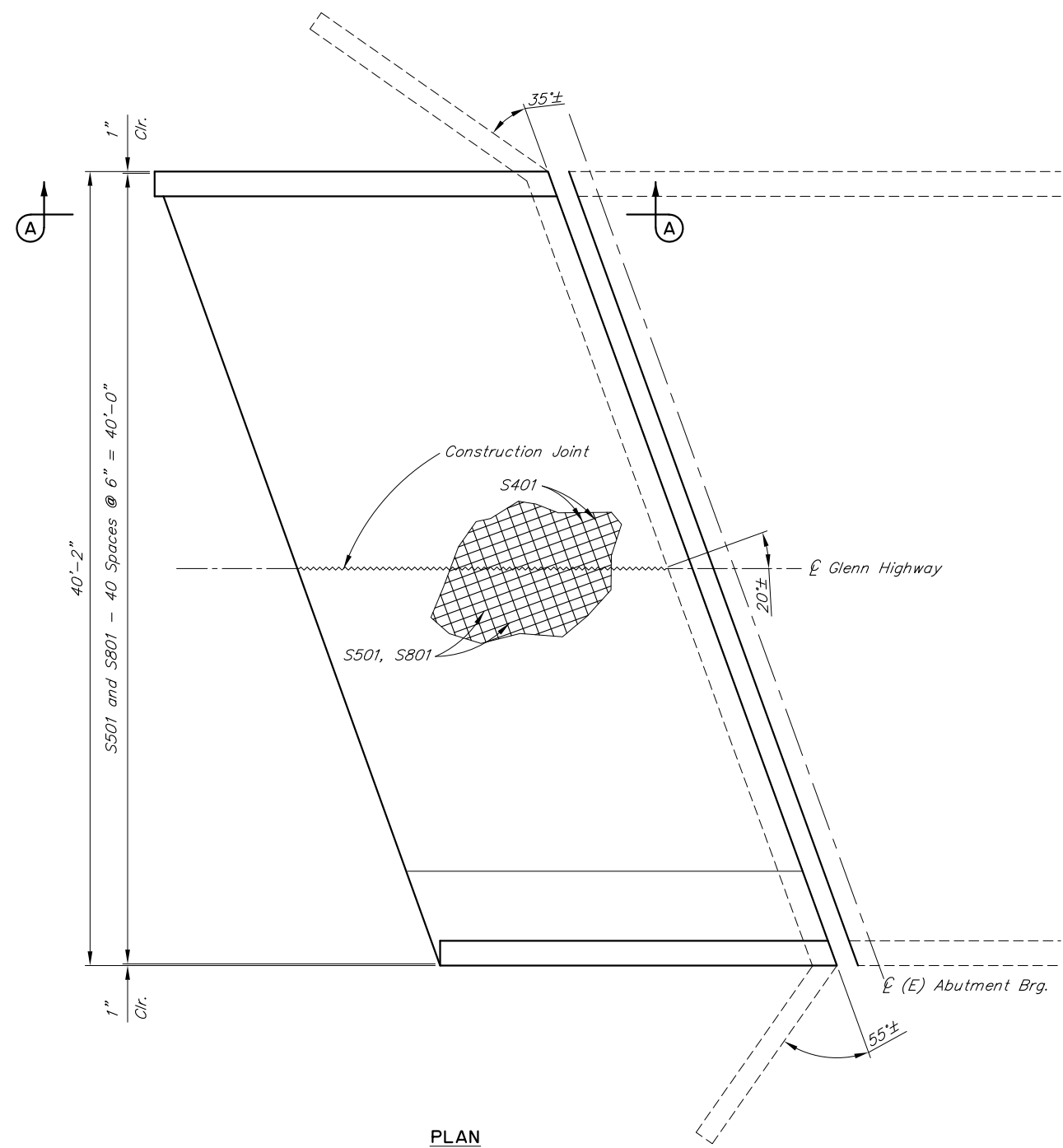
KNIK RIVER NORTHBOUND
GLENN HIGHWAY
EXPANSION JOINT


BRIDGE NO. 1121
DWG. NO. 5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N7	N24

REINFORCING STEEL - ONE SLAB

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
S401	E,M,S	4	56	42'-4"	---	
S501	E	5	80	18'-8"	---	
S801	E	8	80	18'-8"	---	



PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.


R:\cad\Glenn Hwy\1121-APPROACH Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

KNIK RIVER NORTHBOUND
GLENN HIGHWAY
APPROACH SLABS

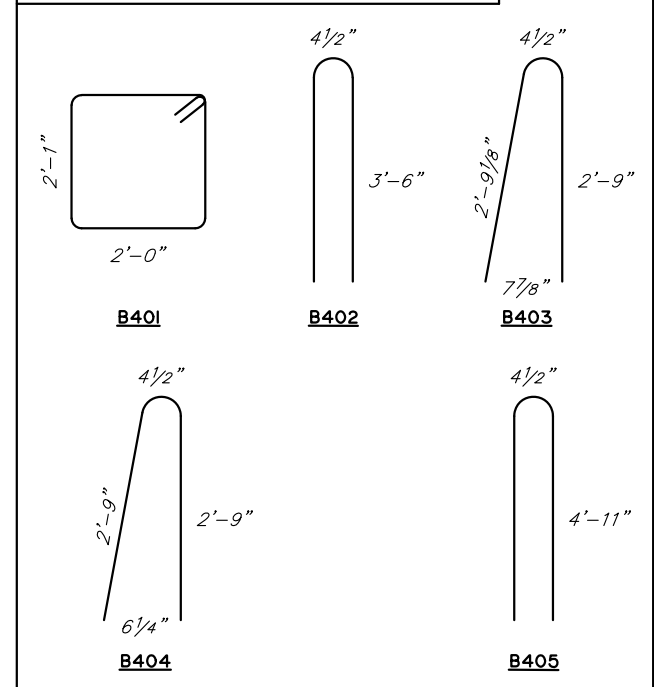

BRIDGE NO. 1121
DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N8	N24

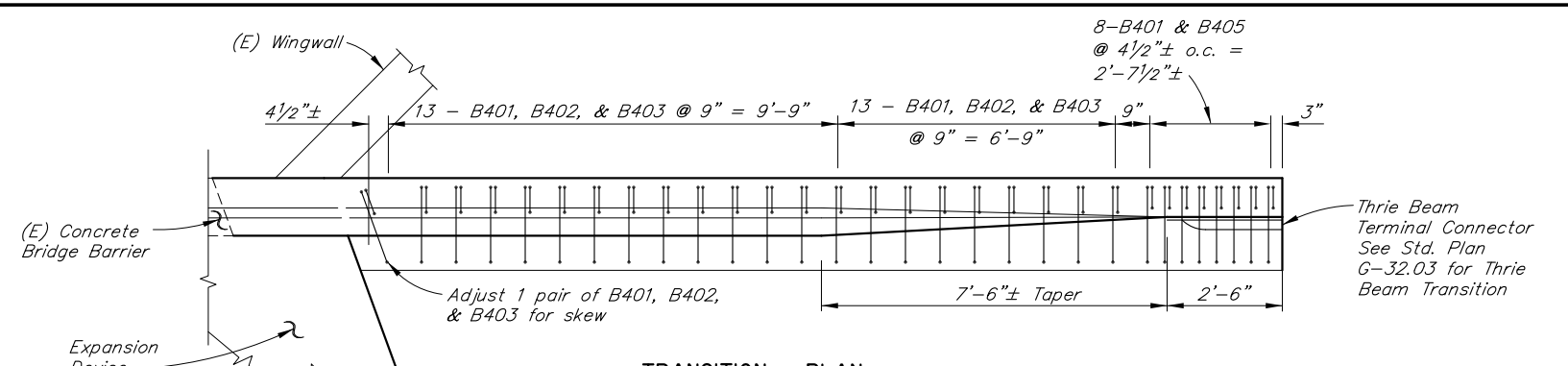
REINFORCING STEEL - CONCRETE BARRIER

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
B401	E	4	124	9'-0"	BENT
B402	E	4	92	7'-4 1/2"	BENT
B403	E	4	56	5'-9 5/8"	BENT
B404	E	4	36	5'-9 1/2"	BENT
B405	E	4	32	10'-2 1/2"	BENT
B501	E	5	44	19'-6"	---

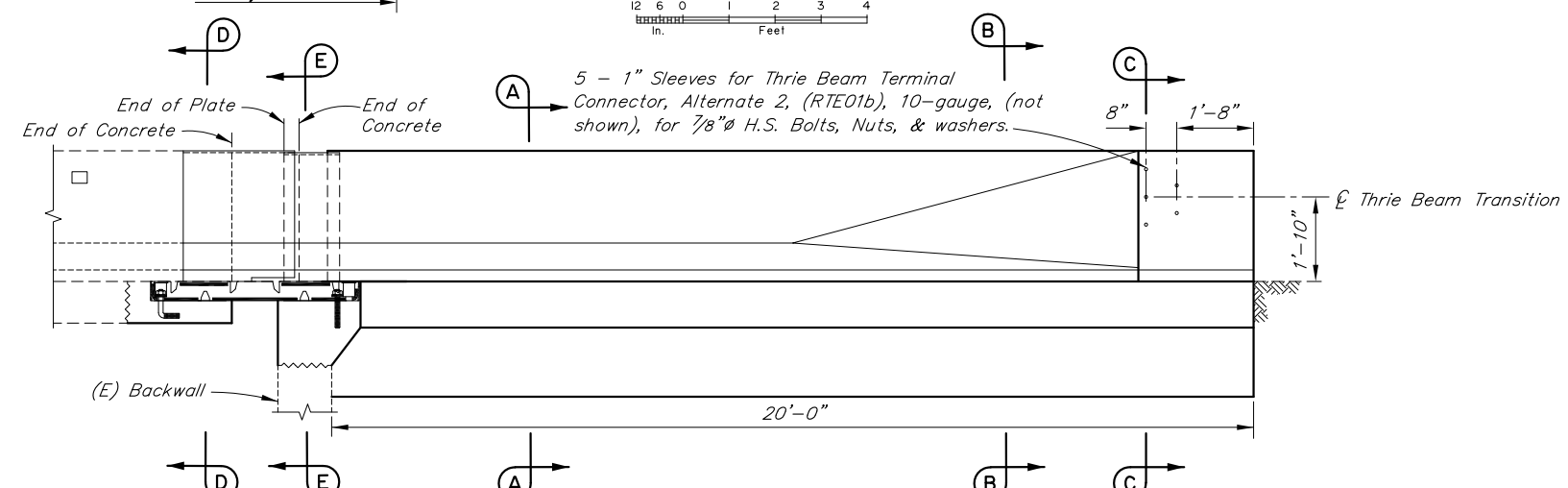
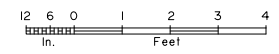
BENDING DIAGRAM



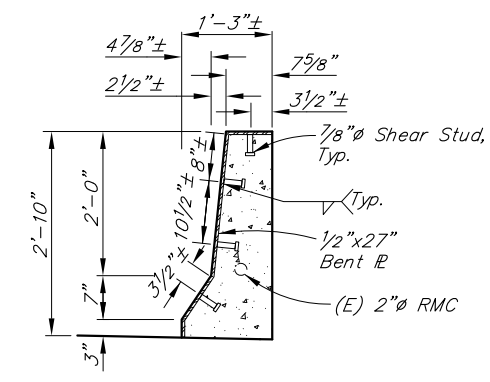
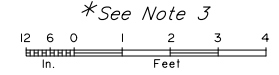
E - Epoxy-Coated Reinforcing Steel



TRANSITION - PLAN

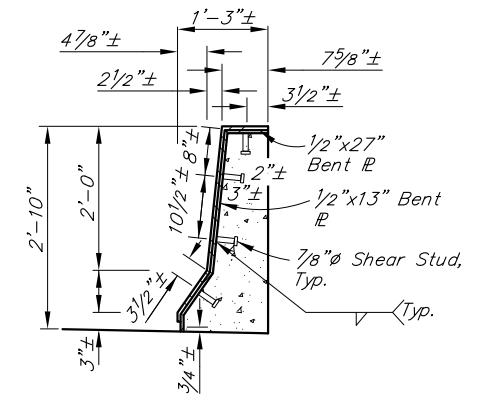


TRANSITION - ELEVATION



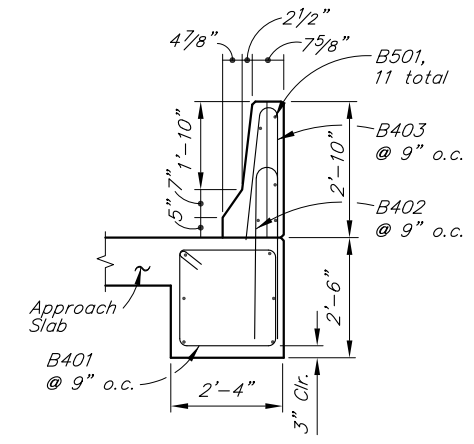
SECTION D-D

No Scale

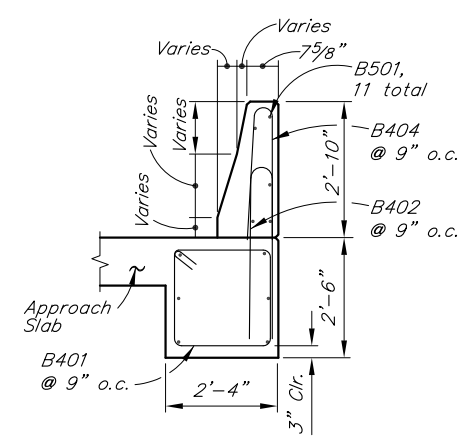
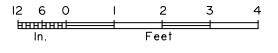


SECTION E-E

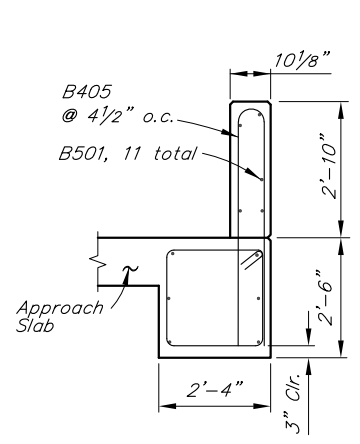
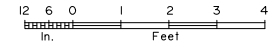
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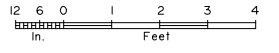
SECTION A-A



SECTION B-B



SECTION C-C



PRELIMINARY PLAN

NOTES:

- (E) = Existing
 - = Existing
 - = Proposed
1. Bridge Rail to be constructed Plumb.
 2. Verify controlling field dimensions before ordering or fabricating any material.
 3. Do not damage existing conduits containing lighting service, Disconnect and cap unused conduits.

R:\cad\Glenn Hwy\1121-CONCRETE BARRIER Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

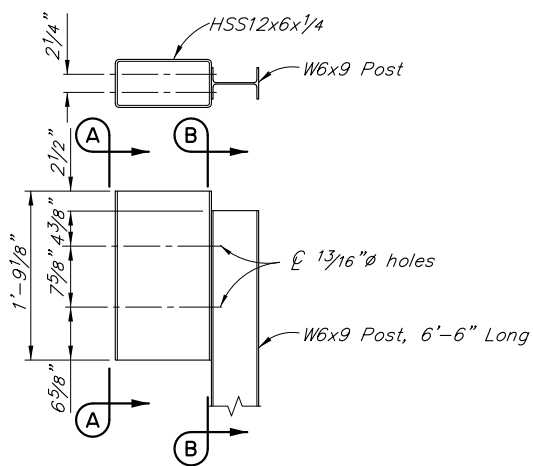
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

KNIK RIVER NORTHBOUND
GLENN HIGHWAY
CONCRETE BARRIER

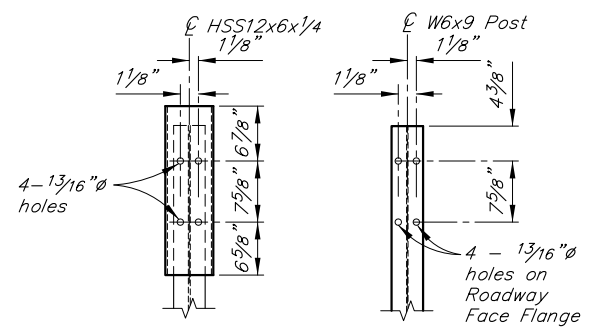


BRIDGE NO. 1121
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N9	N24

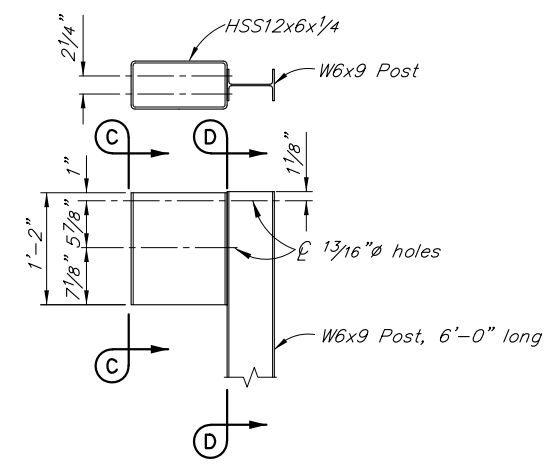


THRIE BEAM STEEL BLOCKOUT - LONG

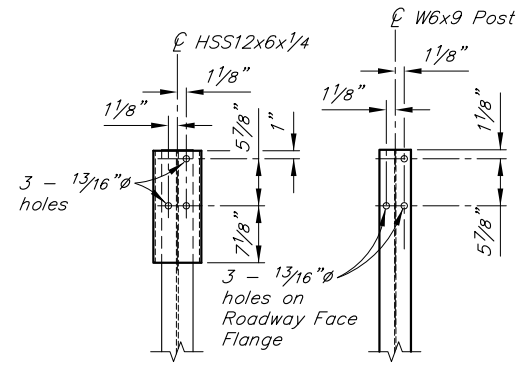


VIEW A-A

SECTION B-B

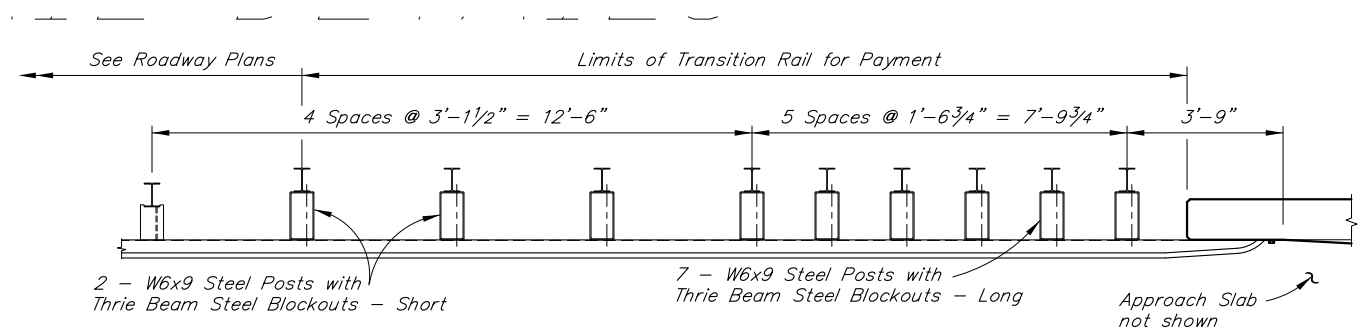


THRIE BEAM STEEL BLOCKOUT - SHORT

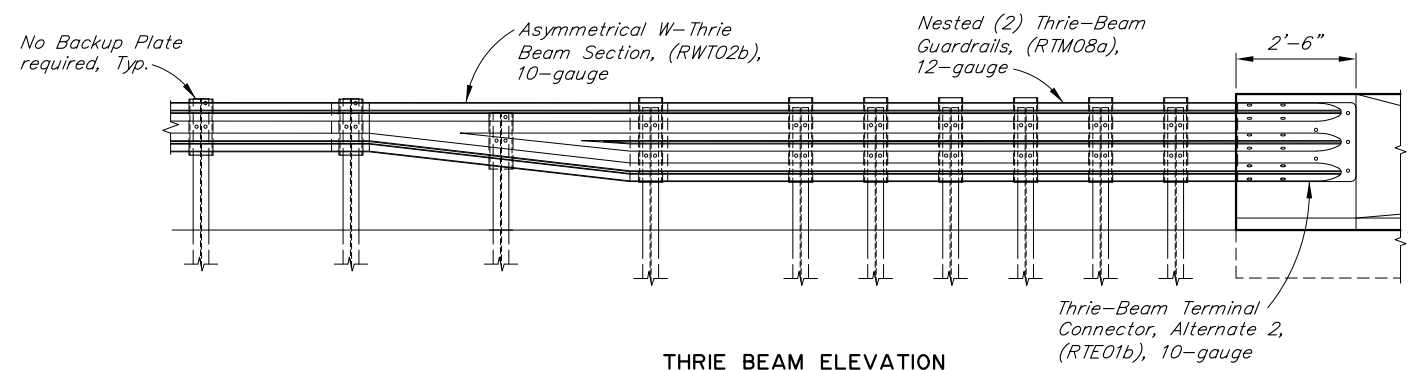


VIEW C-C

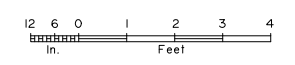
SECTION D-D



PLAN



THRIE BEAM ELEVATION



PRELIMINARY PLAN

NOTES:

- (E) = Existing
 - = Existing
 - = Proposed
1. Bridge Rail to be constructed Plumb.
 2. Verify controlling field dimensions before ordering or fabricating any material.
 3. Do not damage existing conduits containing lighting service, Disconnect and cap unused conduits.


R:\cad\Glenn Hwy\1121-TRANSITION Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

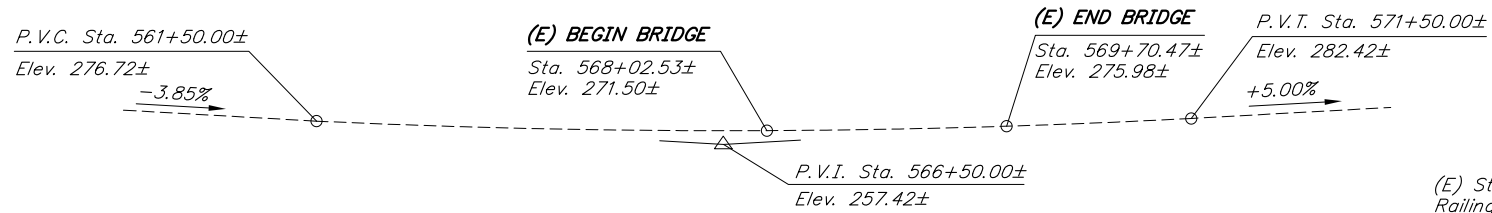
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

KNIK RIVER NORTHBOUND
GLENN HIGHWAY
THRIE BEAM TRANSITION

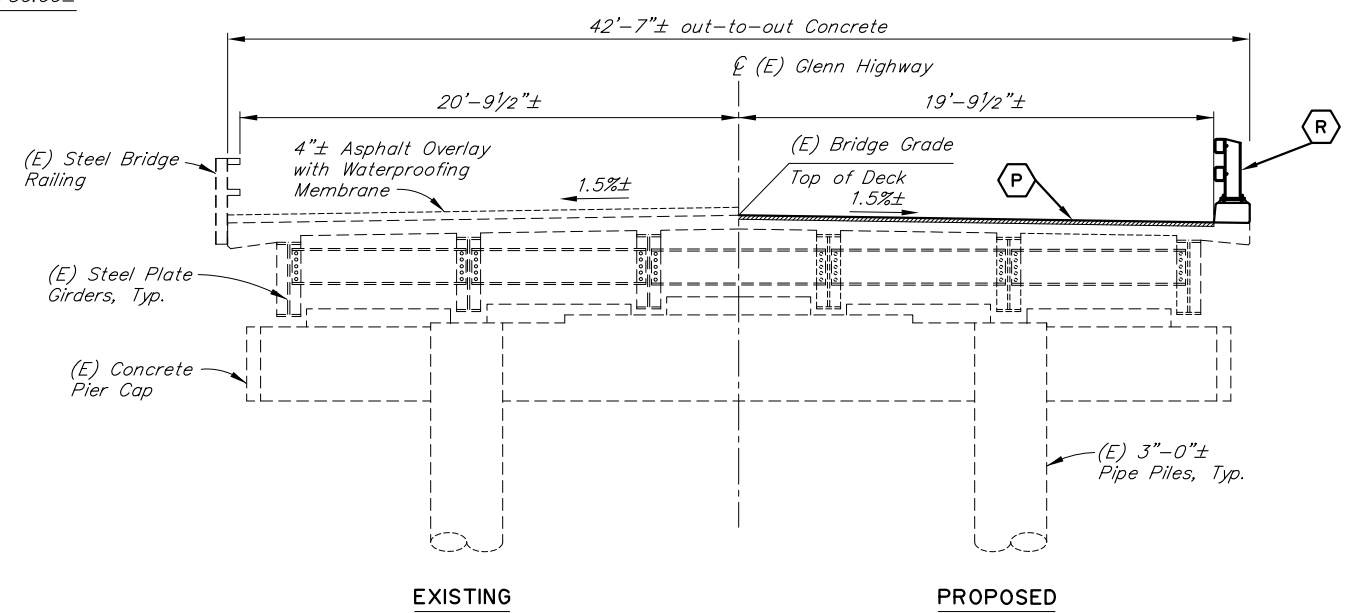
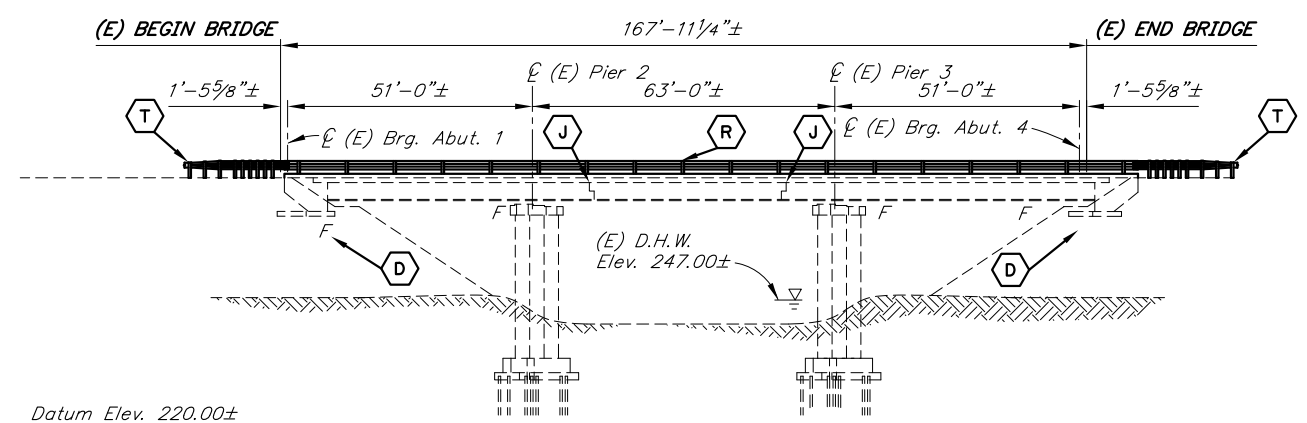


BRIDGE NO. 1121
DWG. NO. 8

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N10	N24



PROFILE GRADE DATA
No Scale

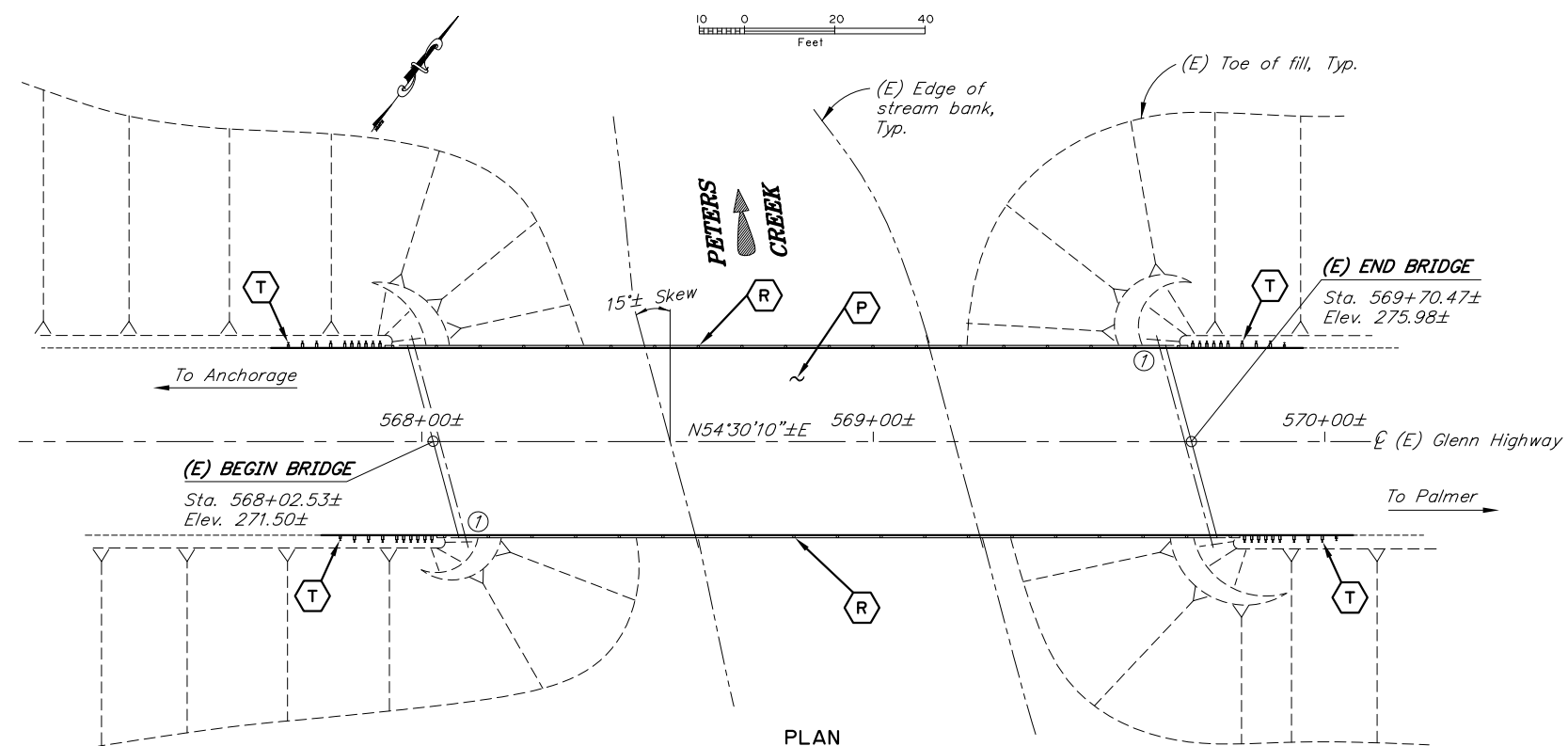
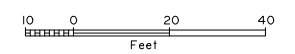


TYPICAL SECTION
12 0 4 8
In. Feet

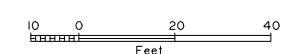
BRIDGE DRAWING INDEX	
TITLE	DWG. NO.
GENERAL LAYOUT	1
DECK DETAILS	2
JOINT DETAILS	3
EXISTING WINGWALL	4
PROPOSED WINGWALL	5
STEEL BRIDGE RAILING 1	6
STEEL BRIDGE RAILING 2	7

LEGEND	
	Remove Brush
	Replace Deck Joint
	Place Polyester Concrete Overlay
	Replace Steel Bridge Railing
	Replace Transition Rail

ELEVATION



PLAN



PRELIMINARY PLAN

REHABILITATION

NOTES:

- (E) = Existing
- = Existing
- = Proposed
- ① Approximate location of bridge number plate.
- 2 Bridge stations and elevations are based on 1969 as-built drawings.
- 3 For project stations and elevations, see roadway sheets.
- 4 Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY: Ben Still	CHECKED: Leslie Daugherty	LAYOUT BY: Ben Still	CHECKED BY: Leslie Daugherty
DRAWN BY: Javier De Leon	CHECKED: Ben Still	SPECIFICATIONS BY: Ben Still	P S & E COMPARED: Leslie Daugherty
QUANTITIES BY: Ben Still	CHECKED: Checker	APPROVAL RECOMMENDED BY: Leslie Daugherty	

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

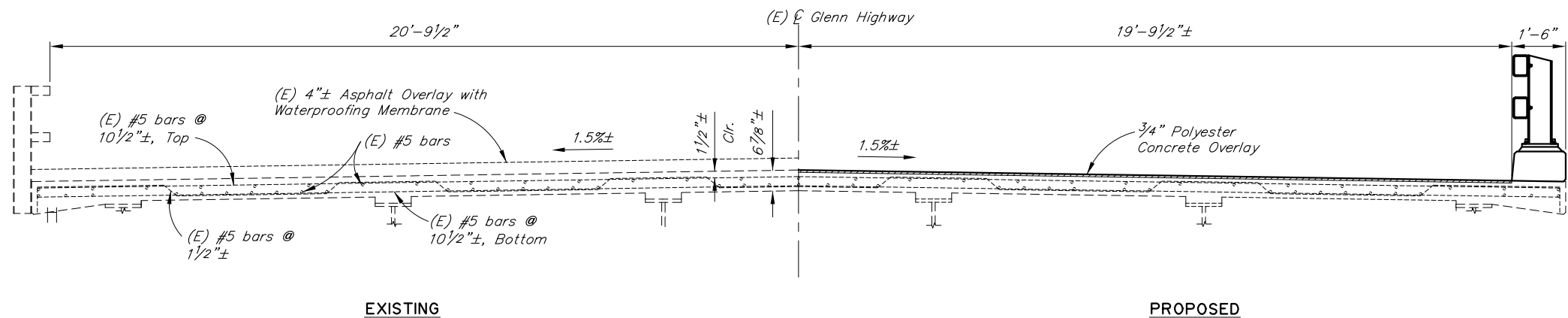
PETERS CREEK NORTHBOUND
GLENN HIGHWAY
GENERAL LAYOUT



BRIDGE NO. 1155
DWG. NO. 1

R:\cad\Glenn Hwy\1155-GENERAL LAYOUT Thu, Mar/09/23 09:18am

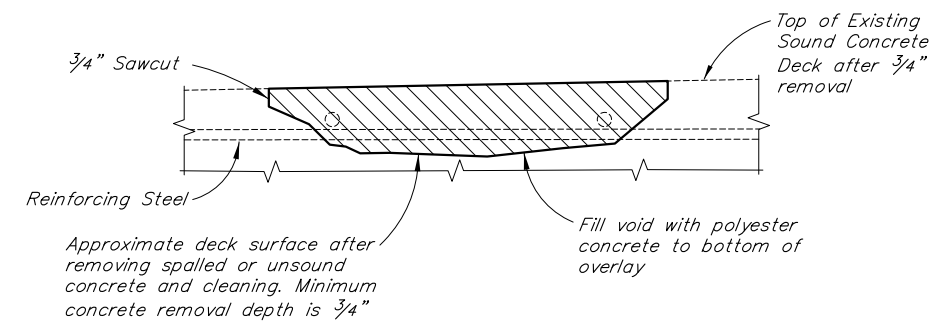
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N11	N24



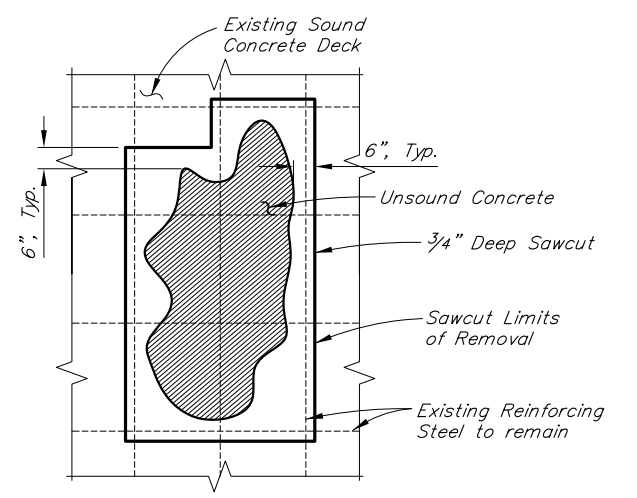
STAGED CONSTRUCTION NOTES

- Remove existing asphalt.
- Remove existing joint seal at expansion hinges.
- Install bridge rail curb.
- Remove 1/2" existing concrete deck surface by grinding.
- Visually inspect and sound exposed surface for delaminations, spalls, and other unsound concrete.
- Remove unsound concrete and prepare deck for patching.
- Place 3/4" inch Polyester Concrete Overlay.
- Install precompressed silicone coated expansion joint material.

TYPICAL SECTION

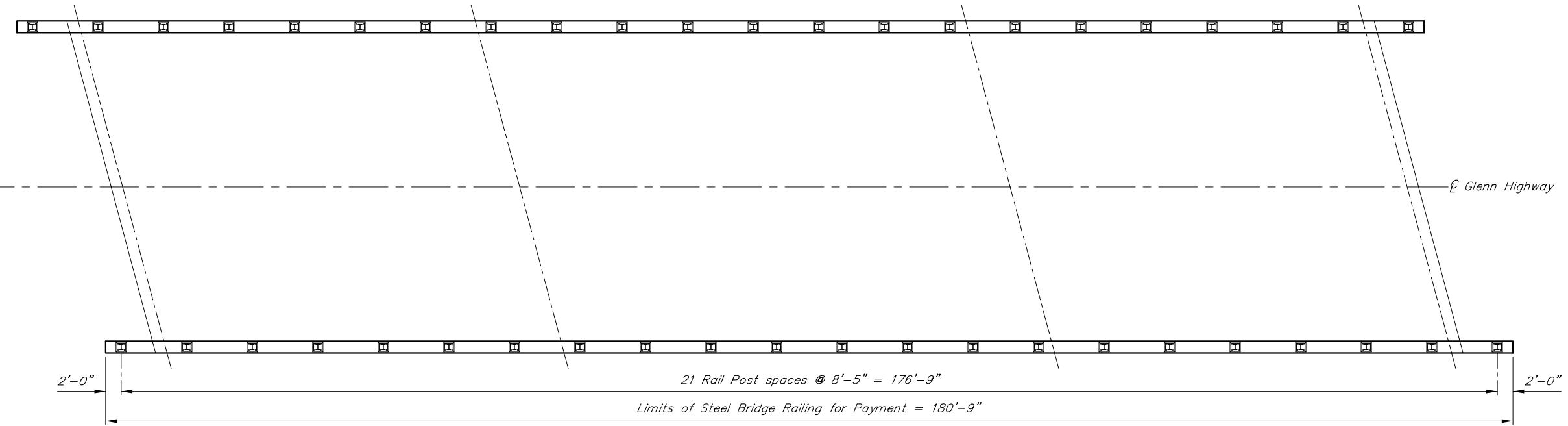


DECK REPAIR DETAIL

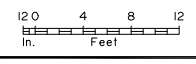


CONCRETE DECK REPAIR PLAN

No Scale



DECK PLAN



PRELIMINARY PLAN

NOTES:

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

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


R:\cad\Glenn Hwy\1155-DECK Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

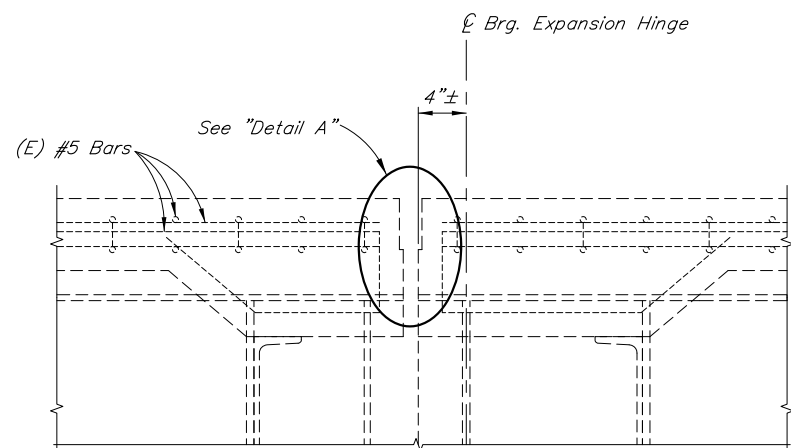
REHABILITATION

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

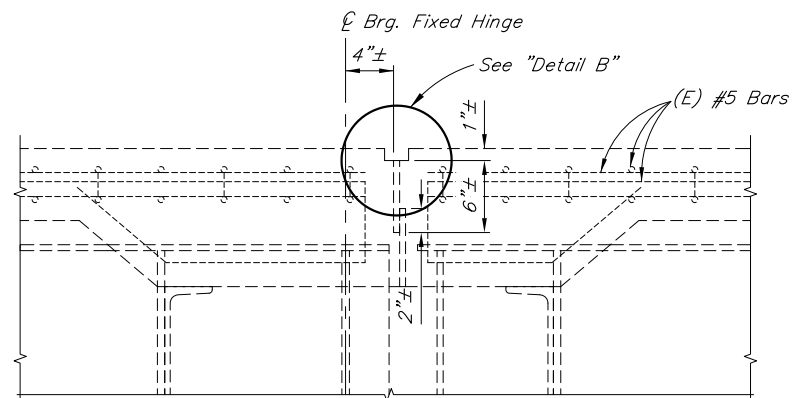
PETERS CREEK NORTHBOUND
GLENN HIGHWAY
DECK DETAILS


BRIDGE NO. 1155
DWG. NO. 2

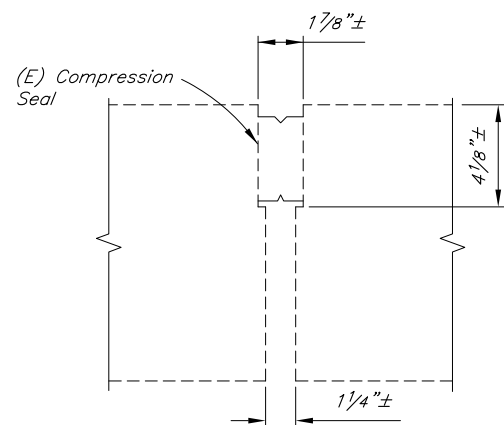
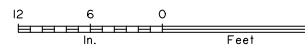
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N12	N24



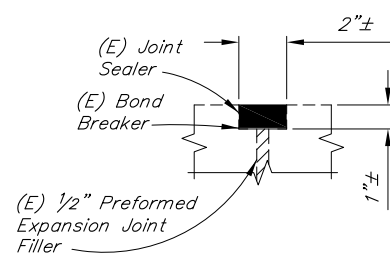
EXPANSION HINGE



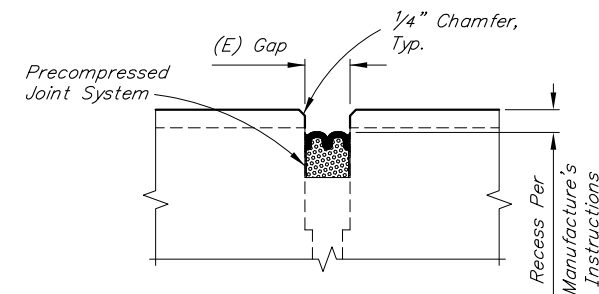
FIXED HINGE



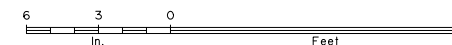
DETAIL A



DETAIL B



PROPOSED JOINT DETAIL



PRELIMINARY PLAN

NOTES:

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

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

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

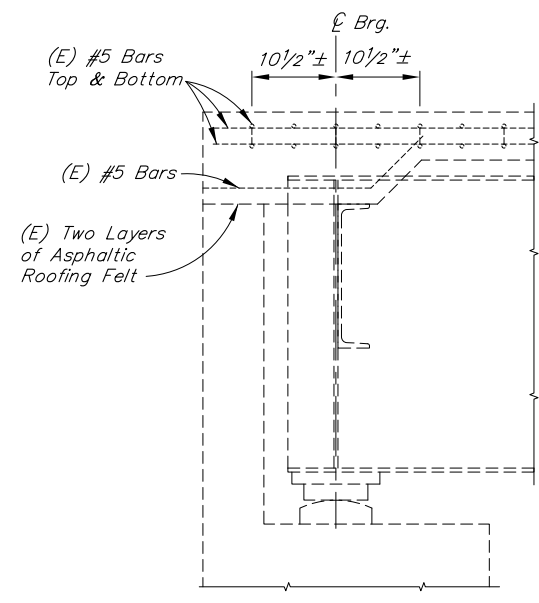
PETERS CREEK NORTHBOUND
GLENN HIGHWAY
JOINT DETAILS



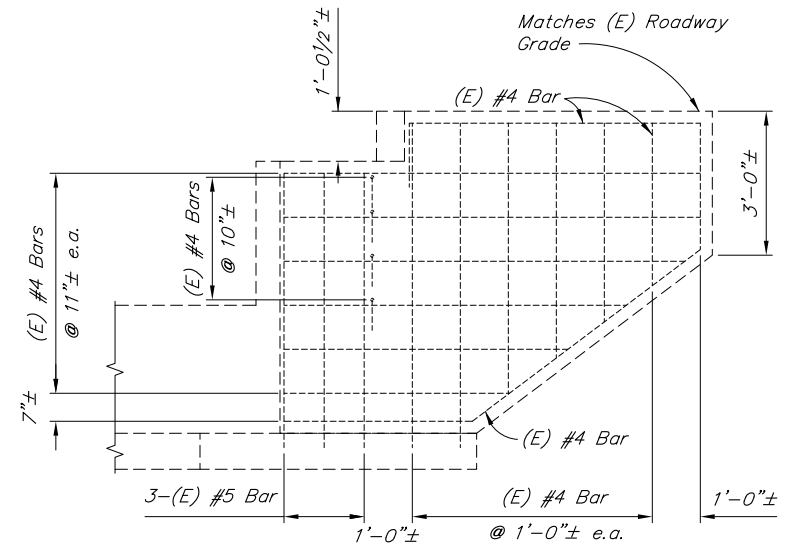
BRIDGE NO. 1155
DWG. NO. 3

R:\cad\Glenn Hwy\1155-JOINTS Thu, Mar/09/23 09:18am

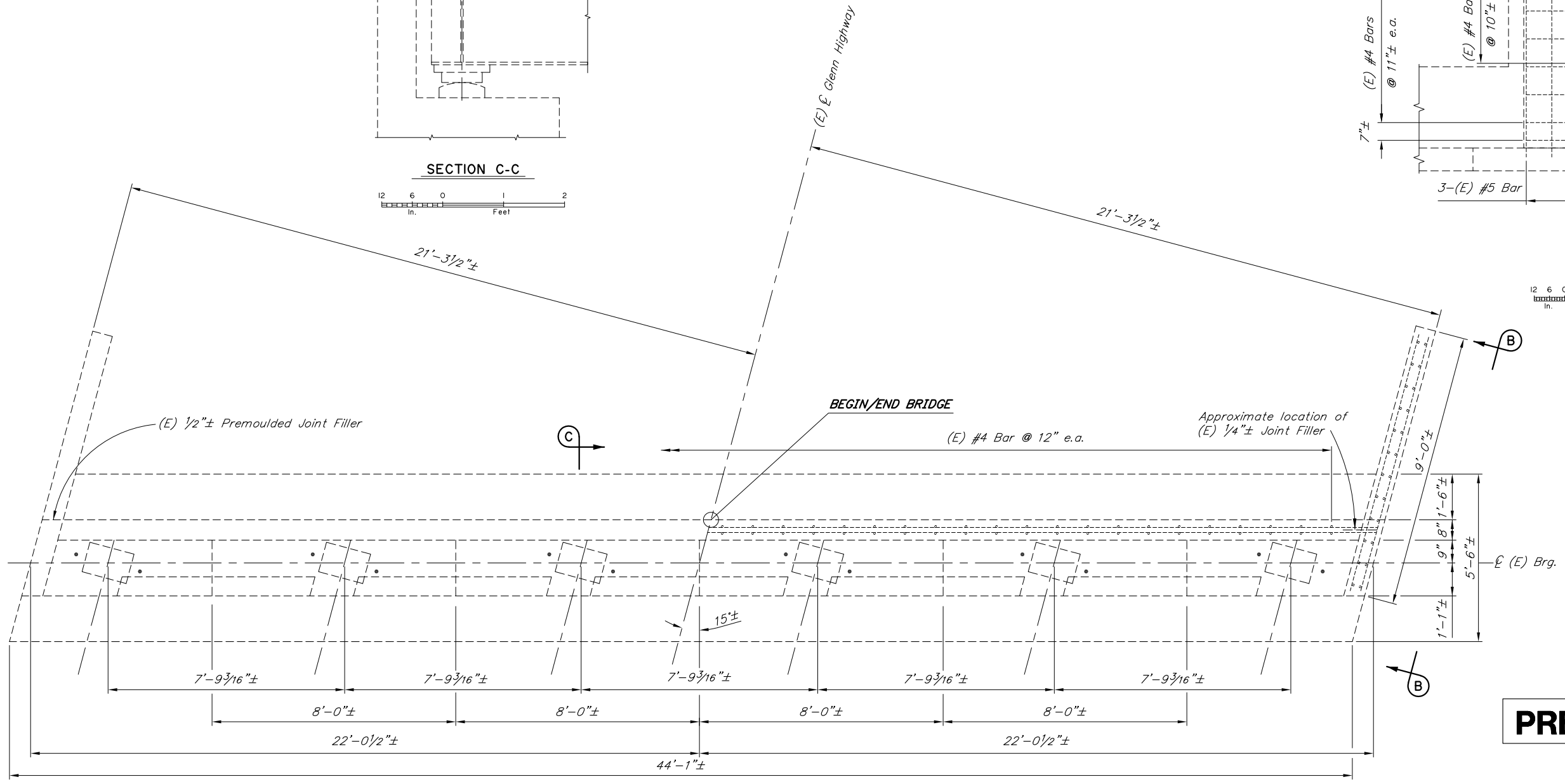
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N13	N24



SECTION C-C
 12 6 0 1 2
 In. Feet



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



PLAN
 (Abut. 1 shown, Abut. 3 similar)
 12 6 0 1 2 3 4
 In. Feet

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.


R:\cad\Glenn Hwy\1155-(E) WINGWALLS Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

PETERS CREEK NORTHBOUND
 GLENN HIGHWAY
EXISTING WINGWALL

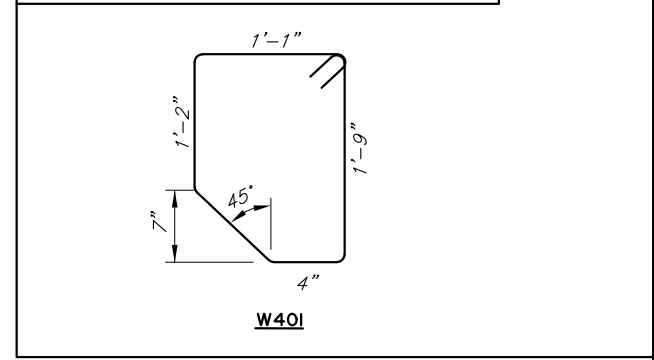

 BRIDGE NO. 1155
 DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N14	N24

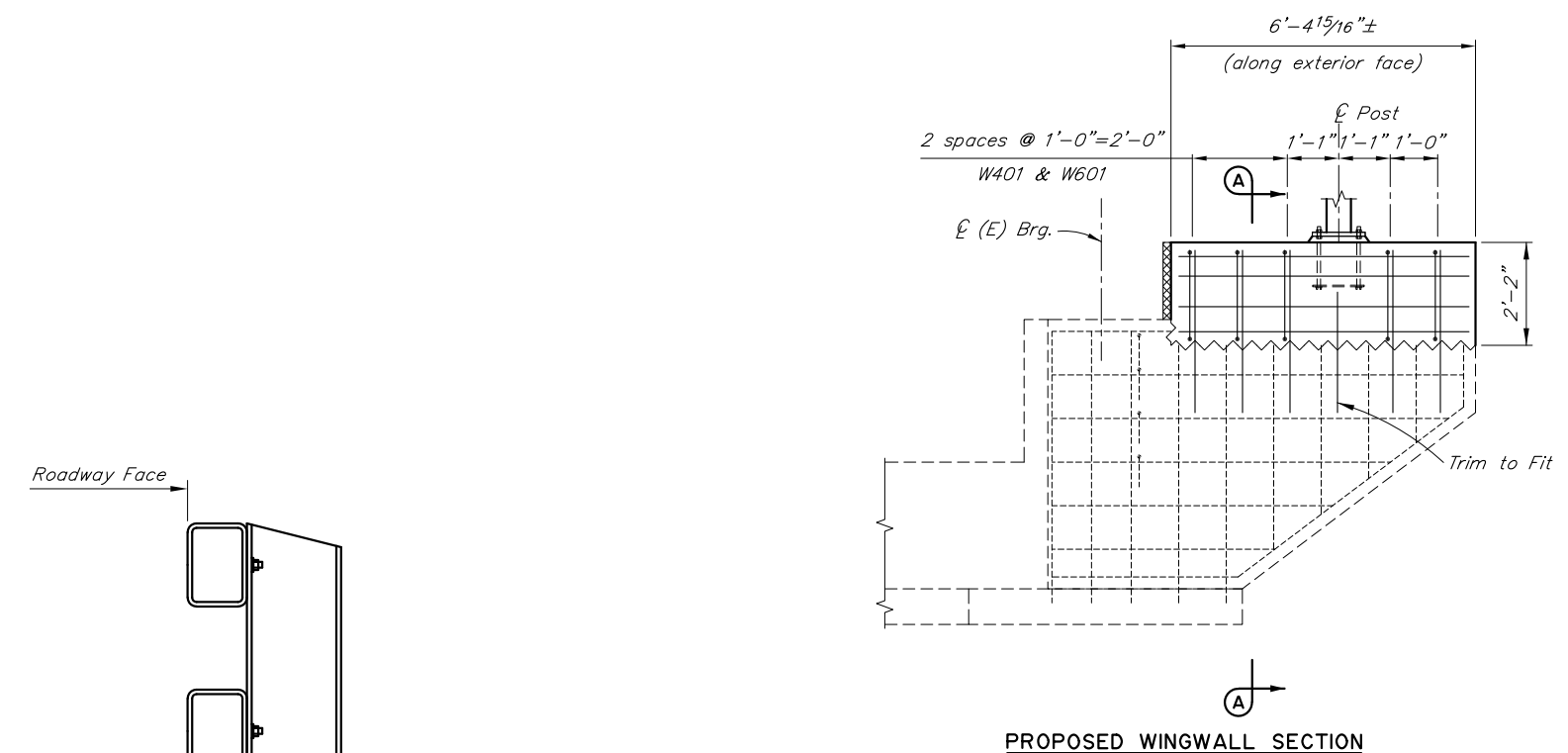
REINFORCING STEEL - ONE ABUTMENT

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
W401	E	4	10	5'-8"	STIRRUP
W501	E	5	16	6'-1"	---
W601	E	6	18	3'-2"	---

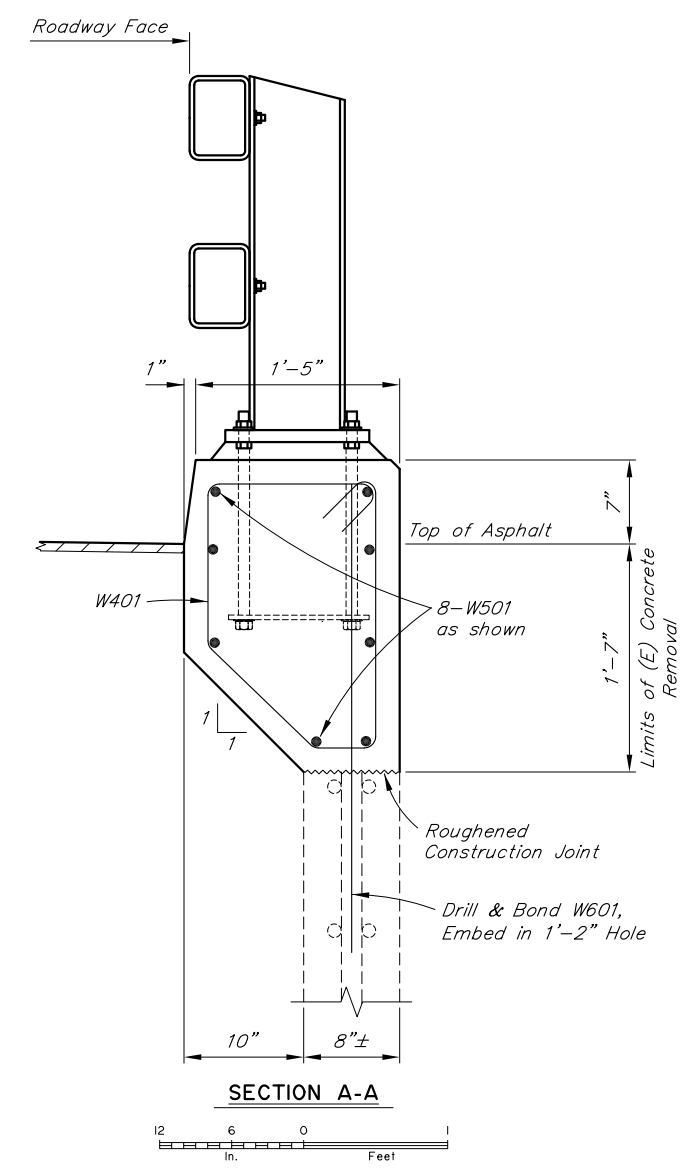
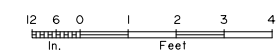
BENDING DIAGRAM



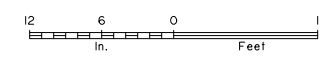
E - Epoxy-Coated Reinforcing Steel



PROPOSED WINGWALL SECTION



SECTION A-A



PRELIMINARY PLAN

NOTES:

- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

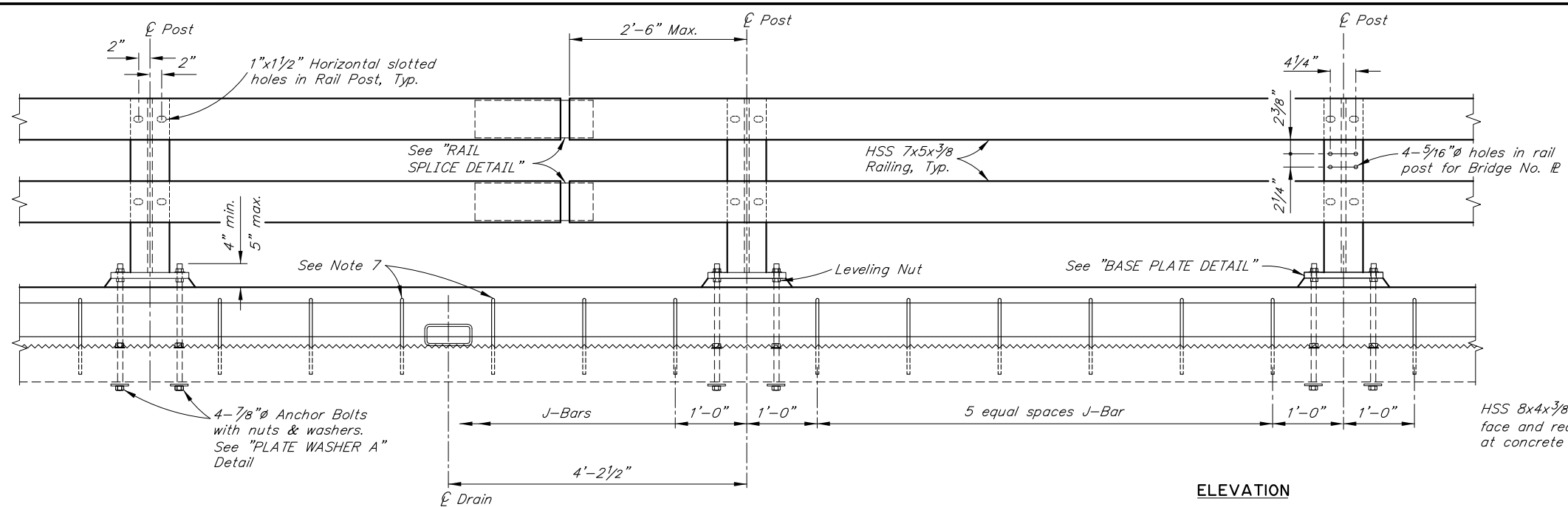
PETERS CREEK NORTHBOUND
GLENN HIGHWAY
PROPOSED WINGWALL



BRIDGE NO. 1155
DWG. NO. 5

R:\cad\Glenn Hwy\1155-WINGWALLS Thu, Mar/09/23 09:18am

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N15	N24



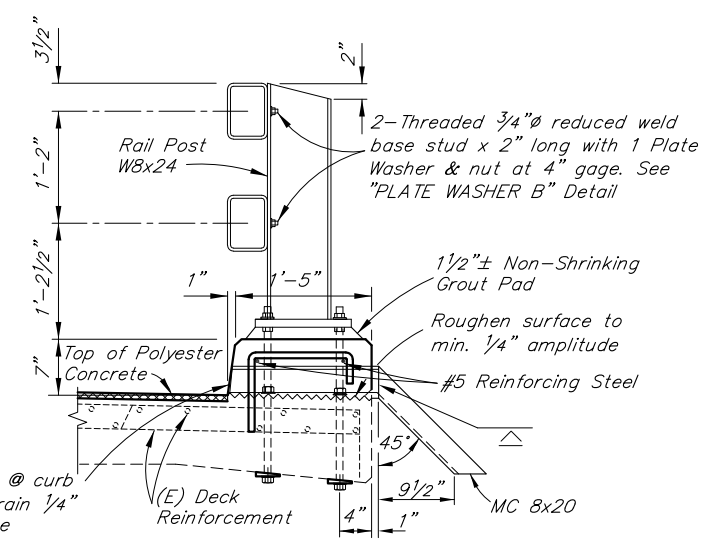
TYPICAL POST ELEVATION



EXPANSION JOINT



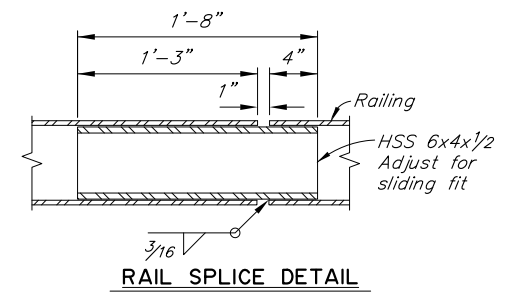
ELEVATION



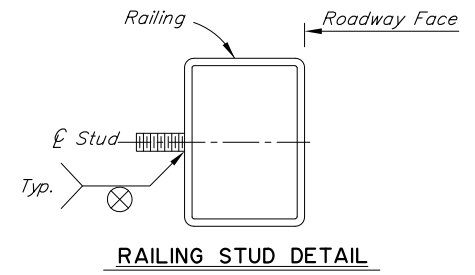
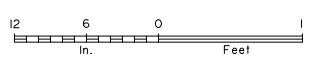
TYPICAL SECTION



PRELIMINARY PLAN



RAIL SPLICE DETAIL



RAILING STUD DETAIL

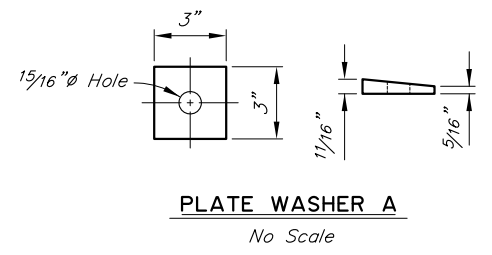


PLATE WASHER A

No Scale

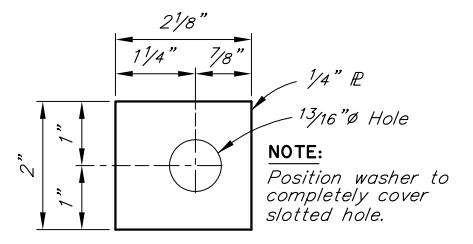
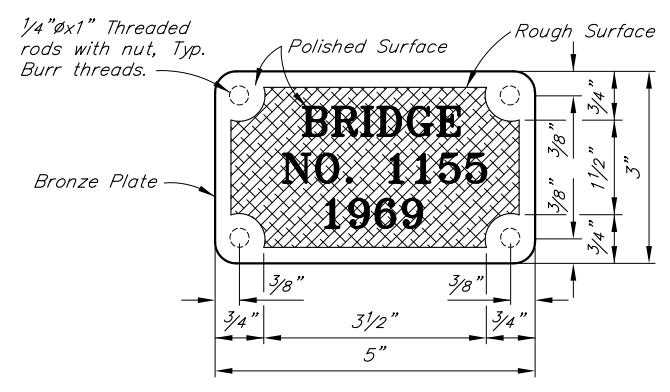


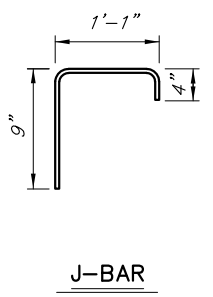
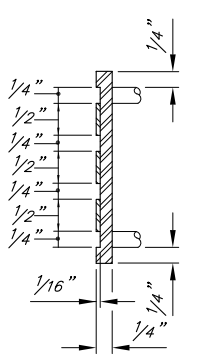
PLATE WASHER B

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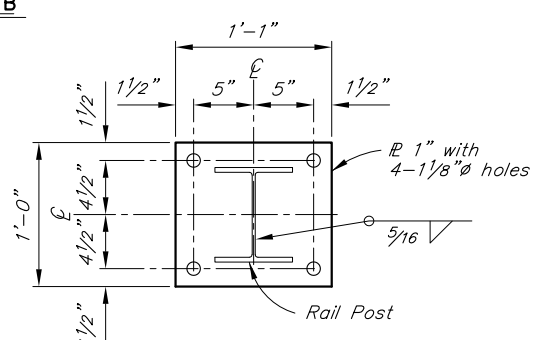


BRONZE BRIDGE NO. PLATE

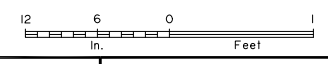
No Scale



J-BAR



BASE PLATE DETAIL



NOTES:

1. Remove existing bridge number plates. Install bridge number plates onto new steel bridge railing posts. Use studs and nuts that conform to UNS C65100 or UNS C65500. Braze 1/4" threaded rod to back of plate with nut - 4 required. Use tamper proof nuts.
2. Locate bridge number plates on right hand side of approaching traffic near each end as shown on "GENERAL LAYOUT" Dwg. (2 total).
3. Provide railing expansion joints at 50'-0" maximum intervals. Railing shall be continuous over 2 posts minimum. Railing expansion joints are required in rail panels that span bridge expansion joints.
4. See "DECK DETAILS" Dwg. for rail post spacing.
5. Install bridge rail posts plumb.
6. Core and bond anchor bolts through the existing deck and existing rail hardware. Drill and bond J-Bar 4" into the existing deck. Adjust J-Bar spacing to avoid existing reinforcing and existing rail hardware.
7. Adjust J-Bar spacing as needed to avoid TS drains.
8. Verify all controlling field dimensions before ordering or fabricating any material.
9. Use grout with a minimum 24 hour f'c of 3000 psi in a single placement.

R:\cad\Glenn Hwy\1155-RAIL Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

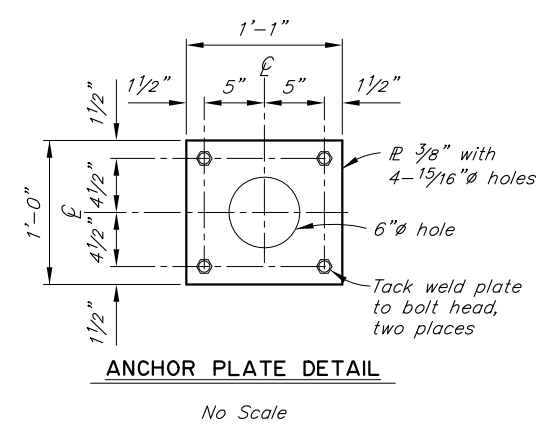
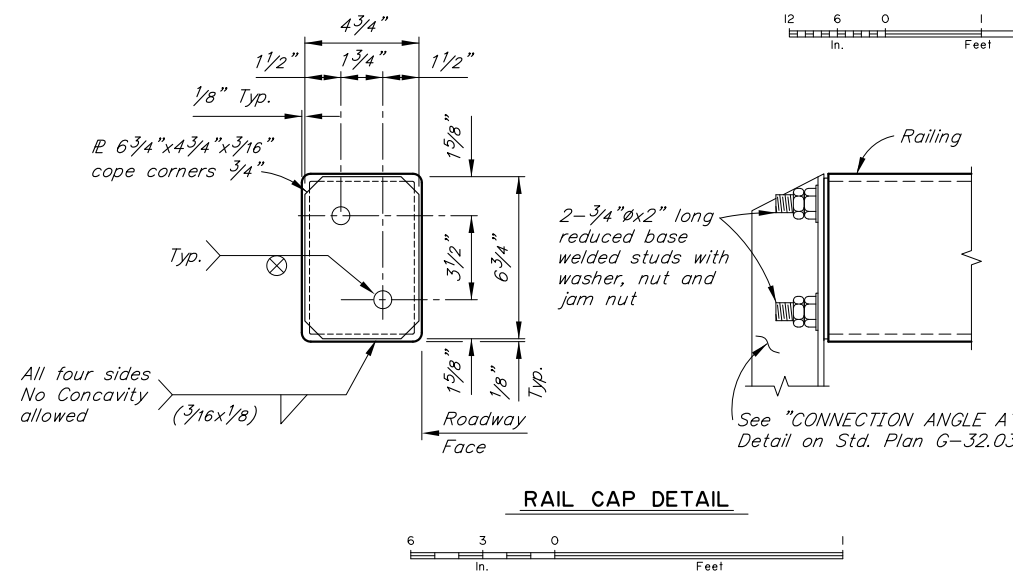
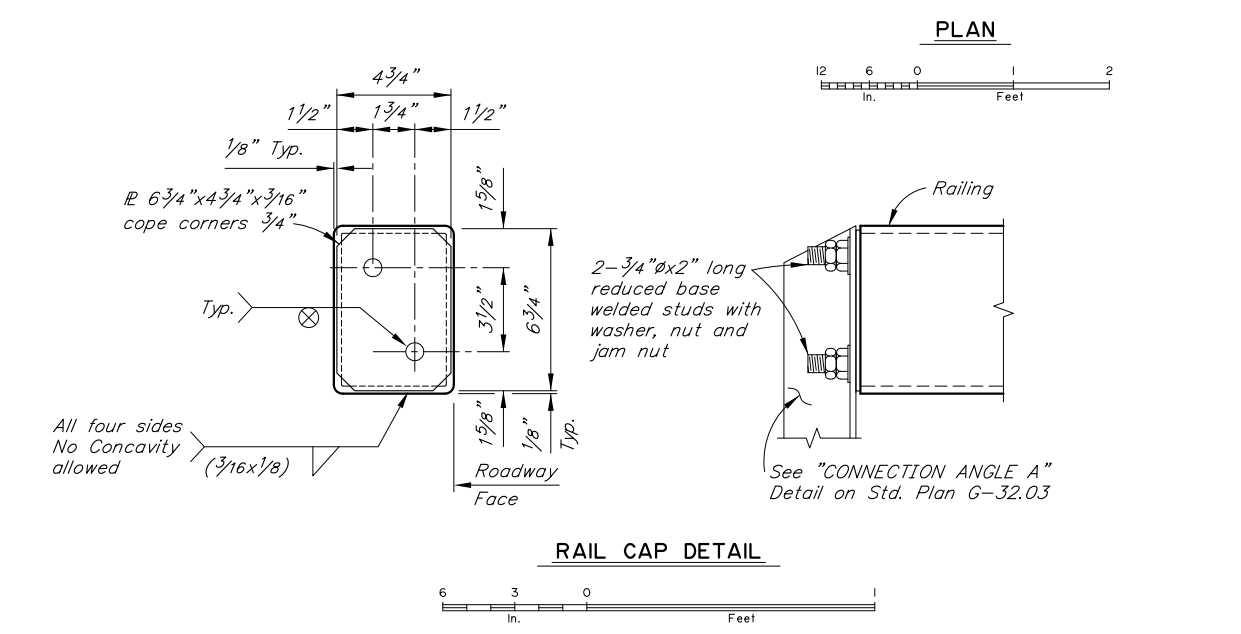
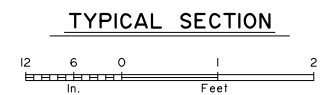
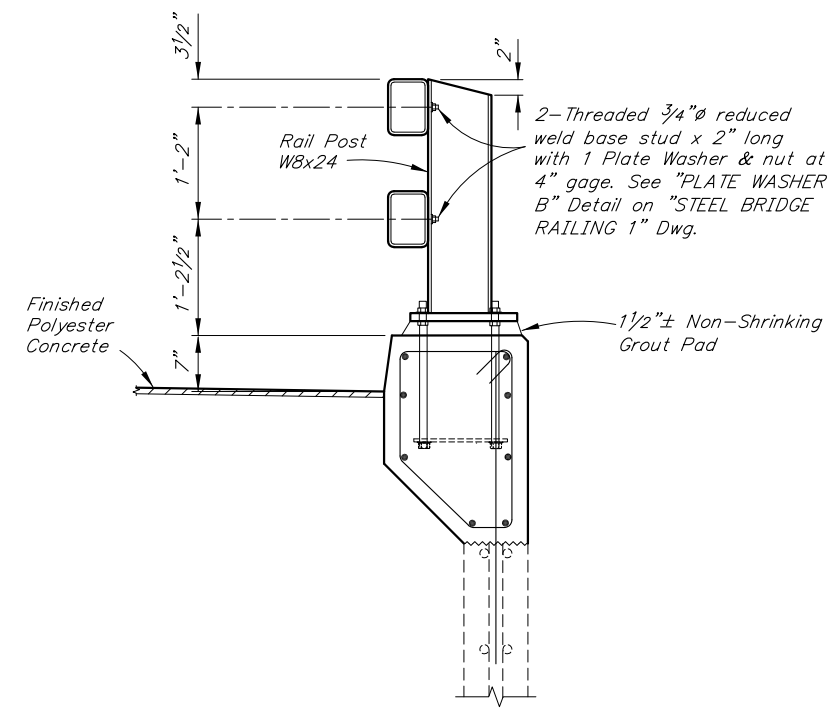
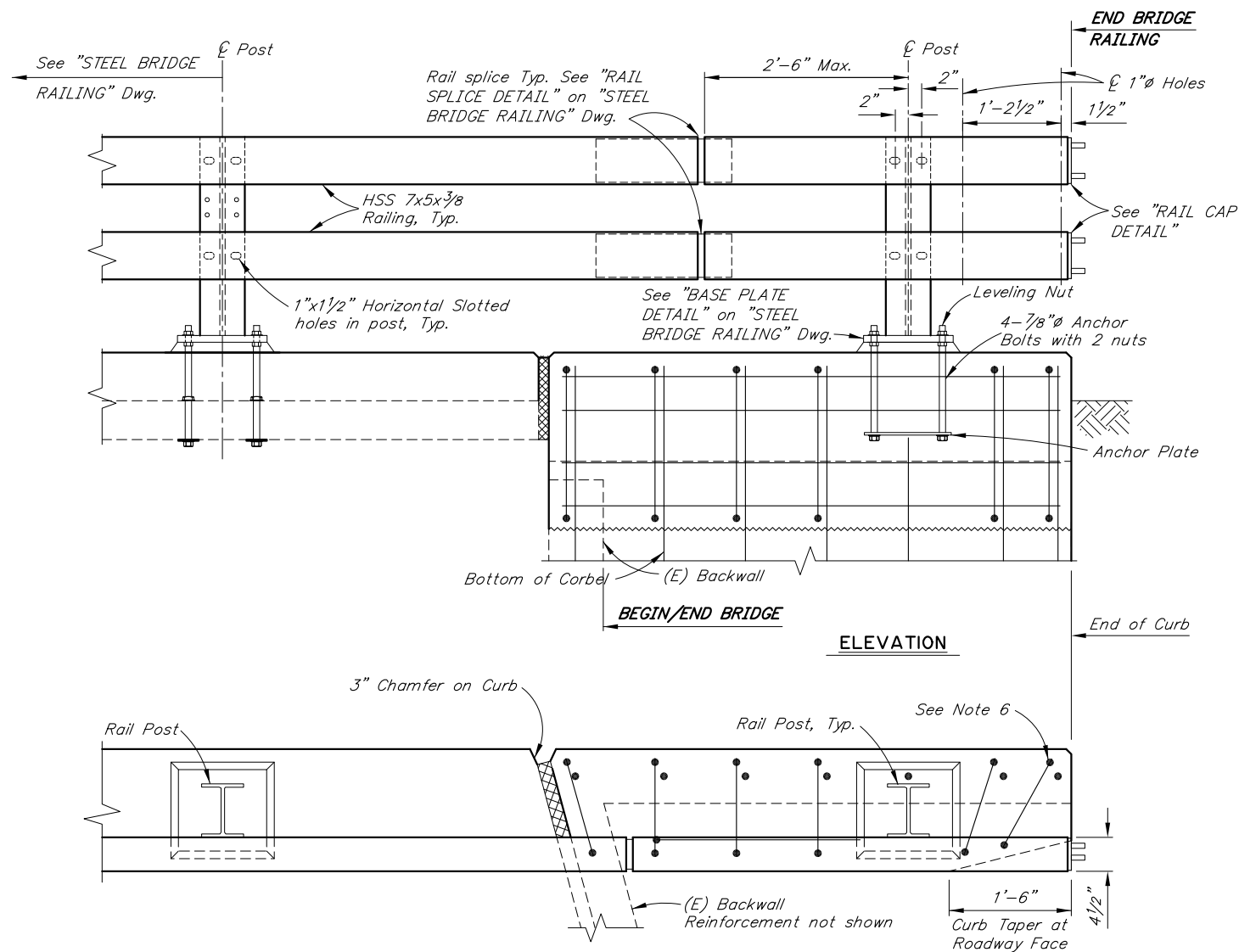
REHABILITATION

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

PETERS CREEK NORTHBOUND
 GLENN HIGHWAY
 STEEL BRIDGE RAILING 1


BRIDGE NO. 1155
DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N16	N24



PRELIMINARY PLAN

NOTES:

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

1. Verify controlling field dimensions before ordering or fabricating any material.
2. Make railing continuous over wingwalls with a rail splice in the rail panel over expansion joint.
3. See "PROPOSED WINGWALLS" Dwg. for wingwall dimensions and bar spacing.
4. Install bridge rail posts plumb.
5. Use grout with a minimum 24 hour f'c of 3000 psi in a single placement.
6. Adjust reinforcing steel to accommodate curb taper.
7. See "STEEL BRIDGE RAILING 1" Dwg. for bridge railing details not shown.
8. See Std. Plan G-32.03 for "MASH BRIDGE RAIL THRIE BEAM TRANSITION" Dwg.

R:\cad\Glenn Hwy\1155-RAIL 2 Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

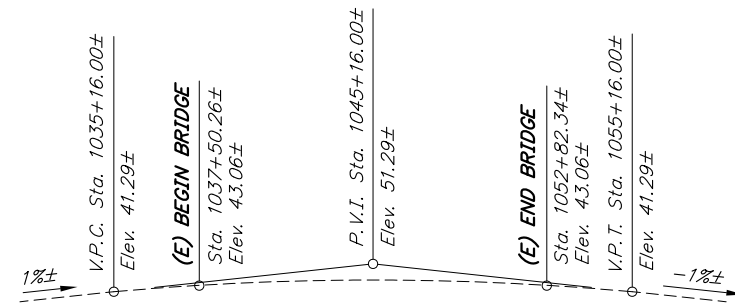
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

PETERS CREEK NORTHBOUND
GLENN HIGHWAY
STEEL BRIDGE RAILING 2

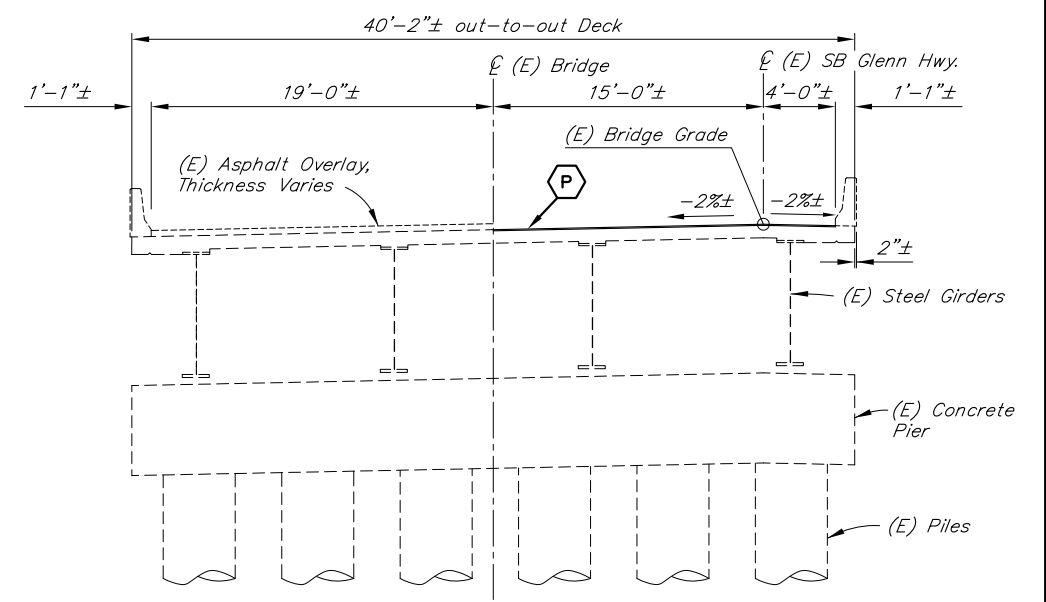


BRIDGE NO. 1155
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N17	N24



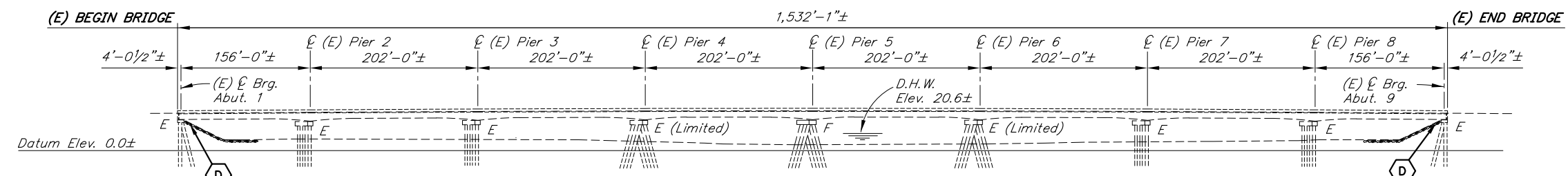
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No Scale



EXISTING **TYPICAL SECTION** **PROPOSED**

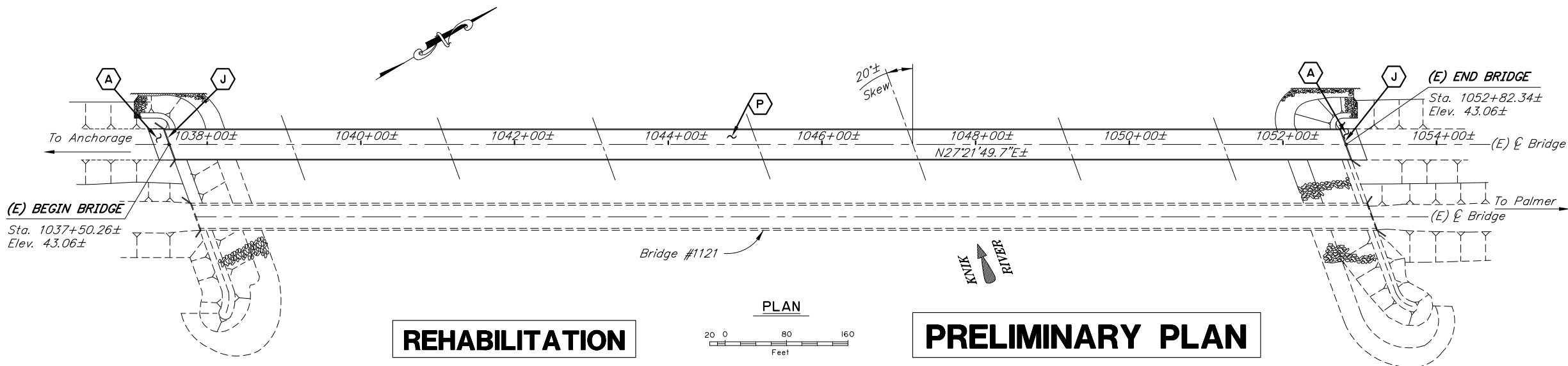


BRIDGE DRAWING INDEX	
TITLE	DWG. NO.
GENERAL LAYOUT	1
DECK DETAILS	2
EXISTING EXPANSION JOINT 1	3
EXISTING EXPANSION JOINT 2	4
EXPANSION JOINT	5
APPROACH SLABS	6
CONCRETE BARRIER	7
THRIE BEAM TRANSITION	8



ELEVATION
20 0 80 160 Feet

LEGEND	
(A)	Install Approach Slab
(D)	Remove Debris from Abutments
(J)	Replace Finger Joint
(P)	Place Polyester Concrete Overlay



REHABILITATION

PLAN
20 0 80 160 Feet

PRELIMINARY PLAN


- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
- Bridge stations and elevations are based on 1993 as-built drawings.
 - For project stations and elevations, see roadway sheets.
 - Verify controlling field dimensions before ordering or fabricating any material.

R:\cod\Glenn Hwy\1885-GENERAL LAYOUT Thu, Mar/09/23 09:18am

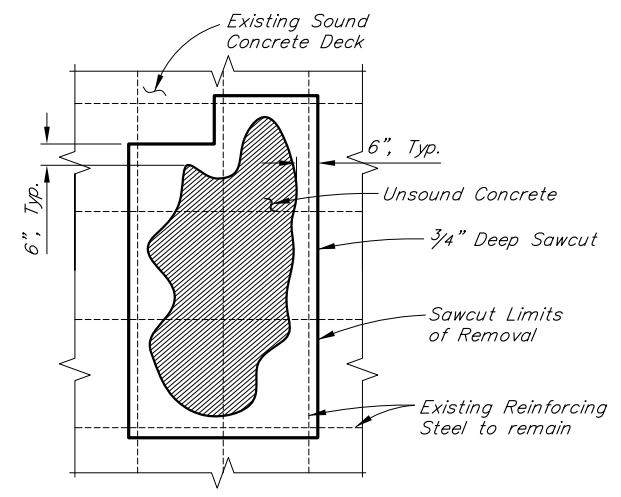
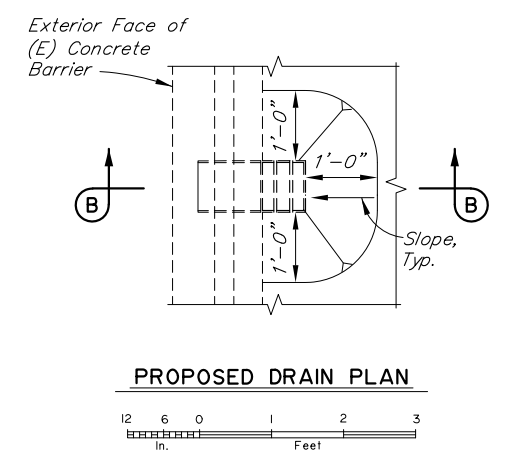
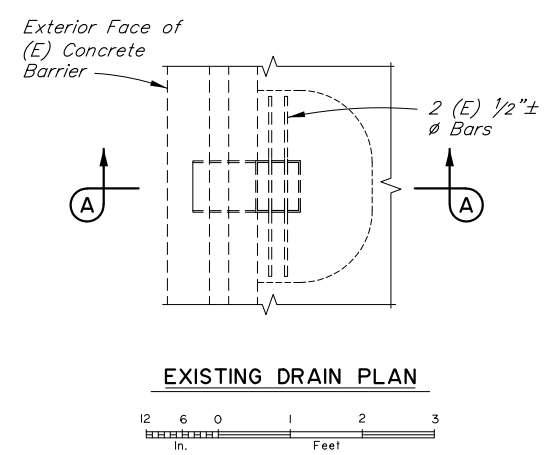
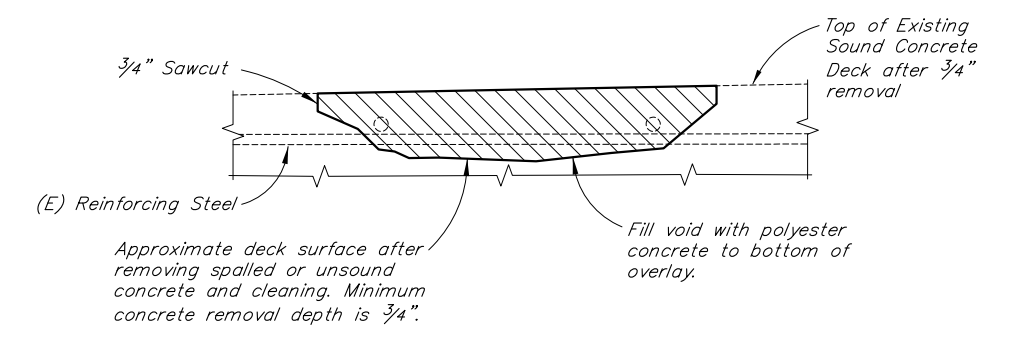
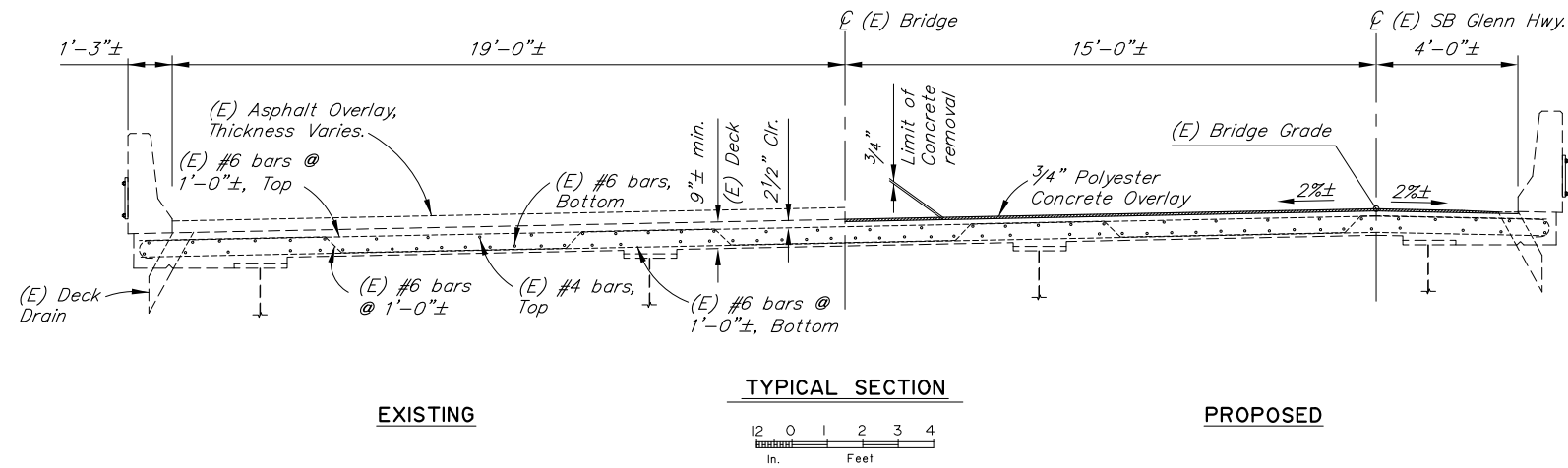
DESIGNED BY: Ben Still	CHECKED: Leslie Daugherty	LAYOUT BY: Ben Still	CHECKED BY: Leslie Daugherty
DRAWN BY: Javier De Leon	CHECKED: Ben Still	SPECIFICATIONS BY: Ben Still	P S & E COMPARED: Leslie Daugherty
QUANTITIES BY: Ben Still	CHECKED: Leslie Daugherty	APPROVAL RECOMMENDED BY: Leslie Daugherty	

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

KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
GENERAL LAYOUT


BRIDGE NO. 1885
DWG. NO. 1

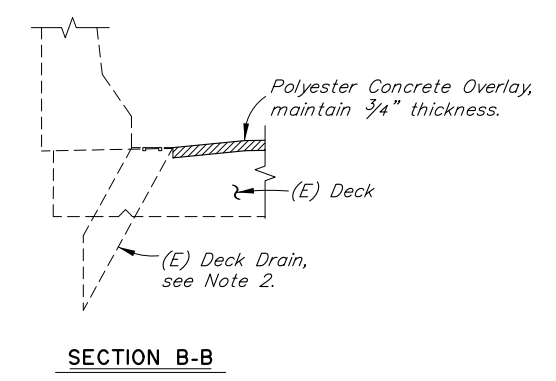
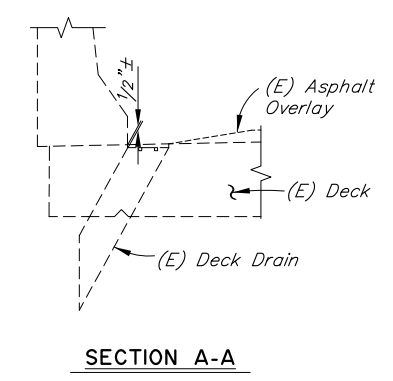
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N18	N24



PRELIMINARY PLAN

NOTES:

- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.
 2. Ensure deck drains are clear.




R:\cad\Glenn Hwy\1885-DECK DETAILS Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

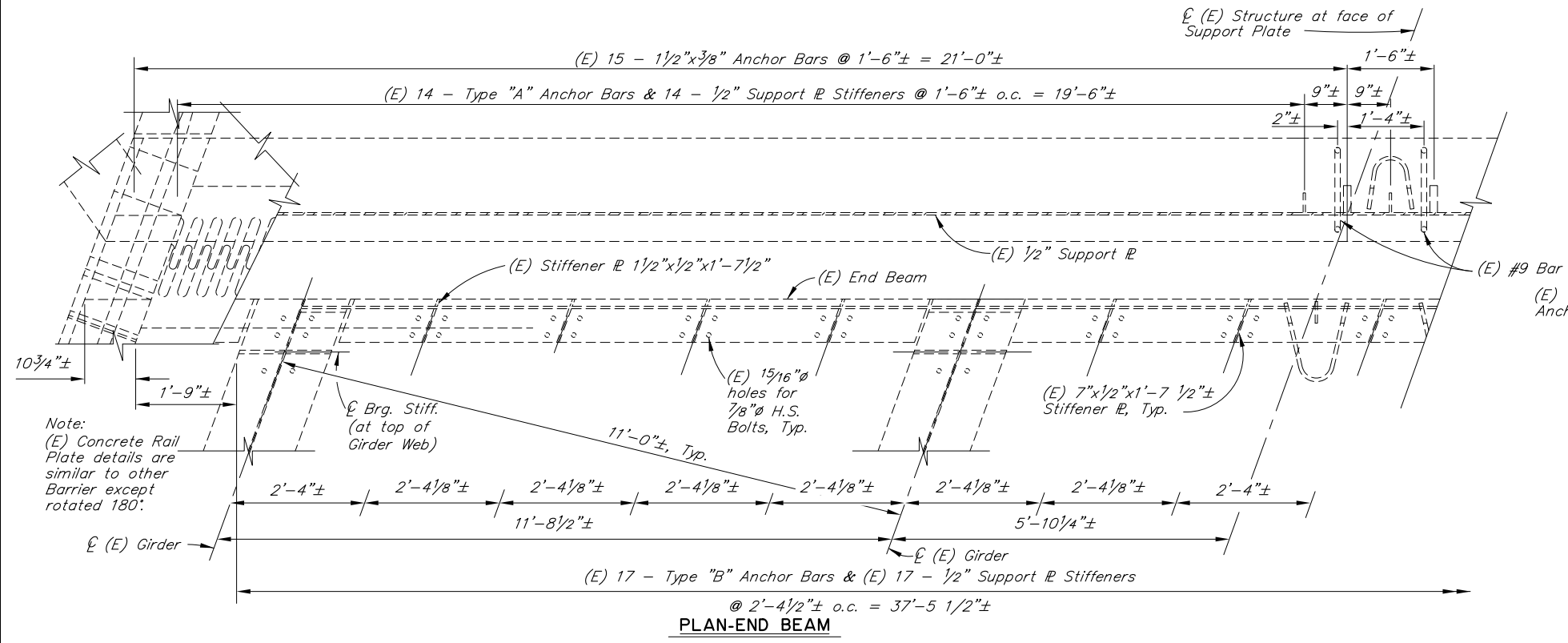
REHABILITATION

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

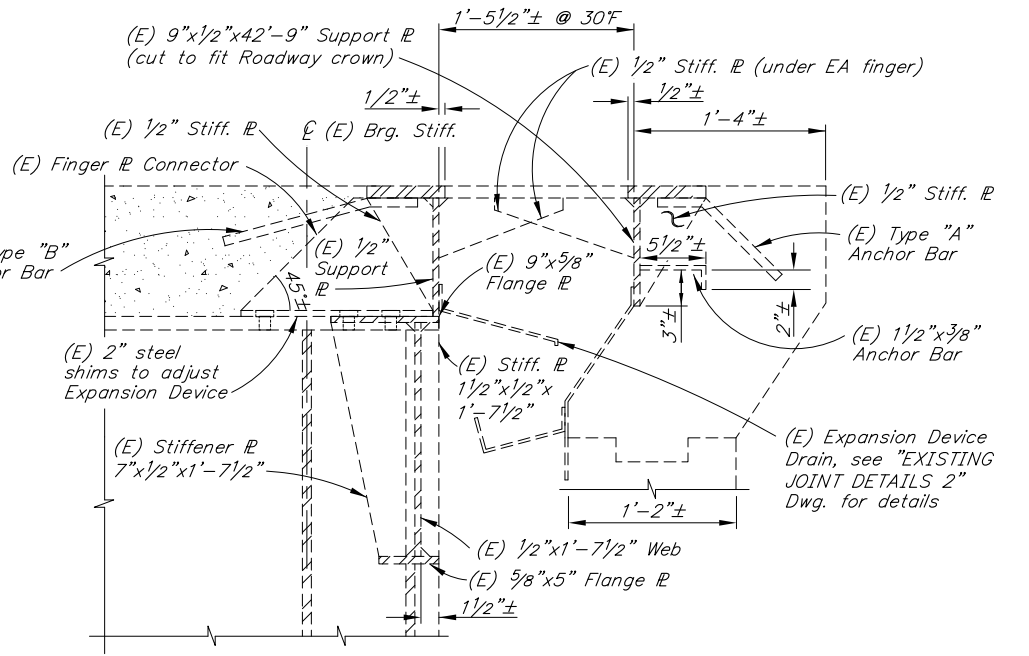
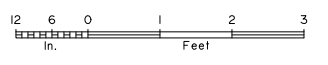
KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
DECK DETAILS


BRIDGE NO. 1885
DWG. NO. 2

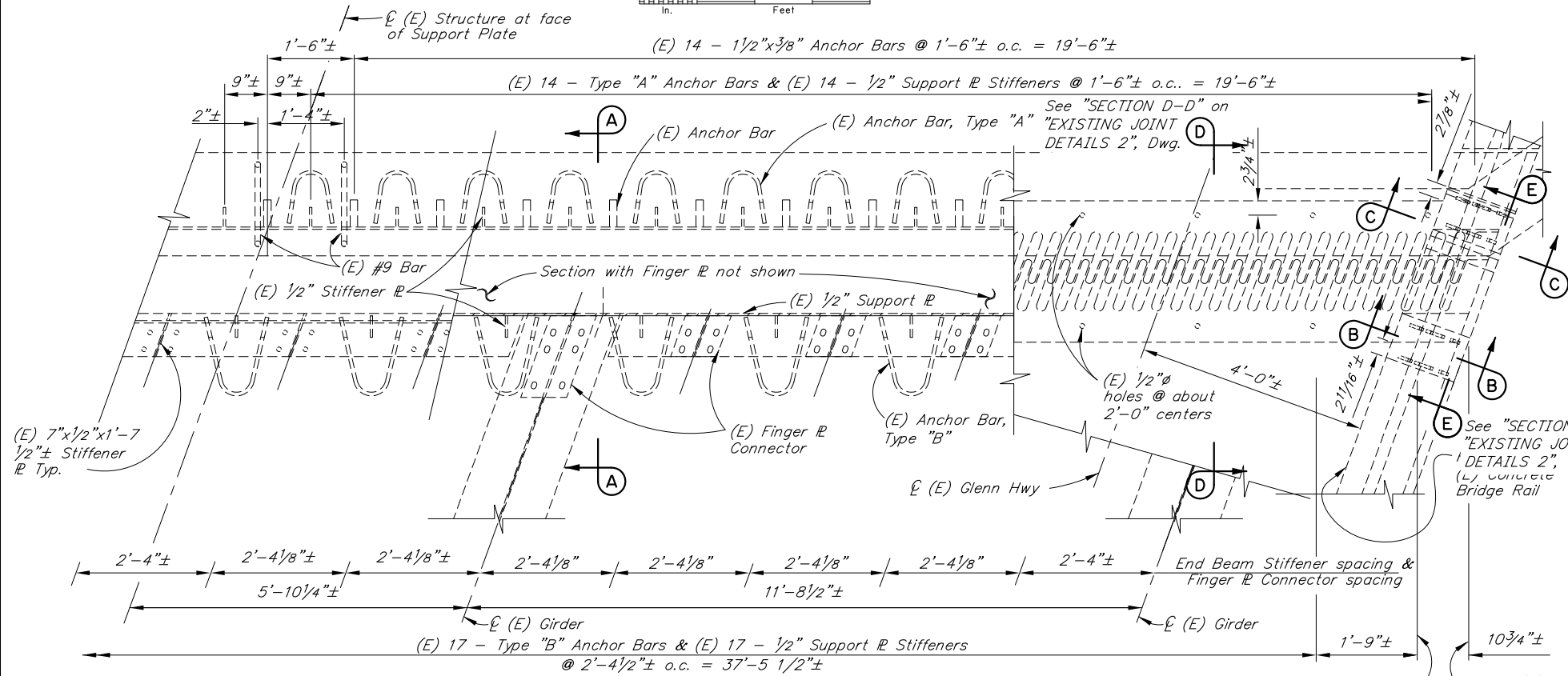
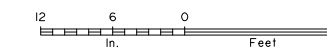
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N19	N24



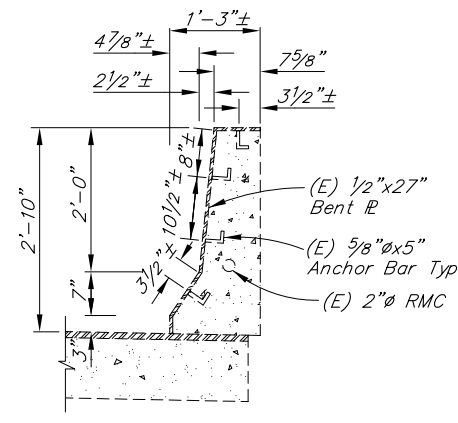
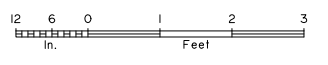
PLAN-END BEAM



SECTION A-A

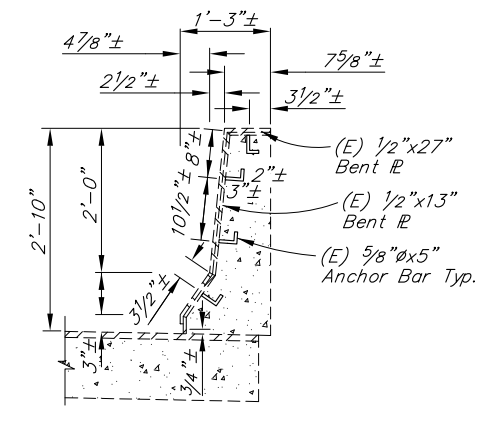


PLAN-EXPANSION DEVICE



SECTION B-B

No Scale



SECTION C-C

No Scale

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.
 2. Ensure deck drains are clear.


R:\cad\Glenn Hwy\1885-(E) JOINT Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

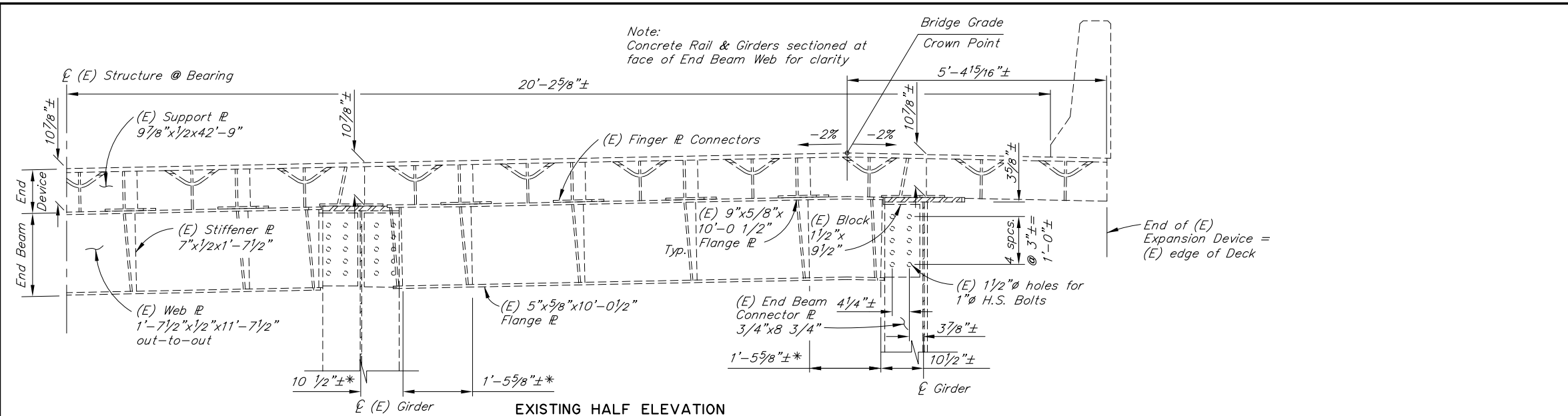
REHABILITATION

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

KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
EXISTING JOINT DETAILS 1

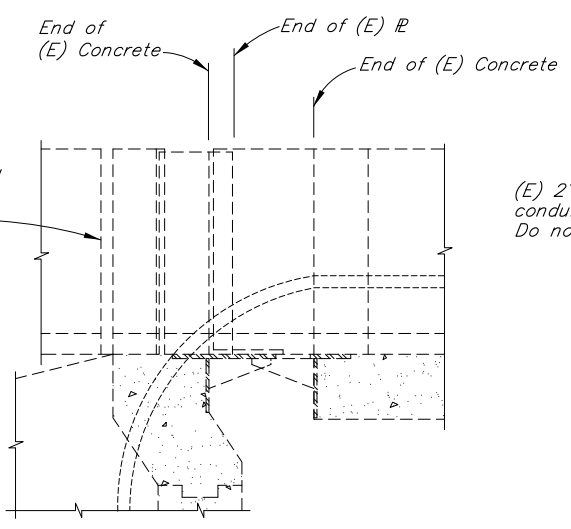

BRIDGE NO. 1885
DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N20	N24



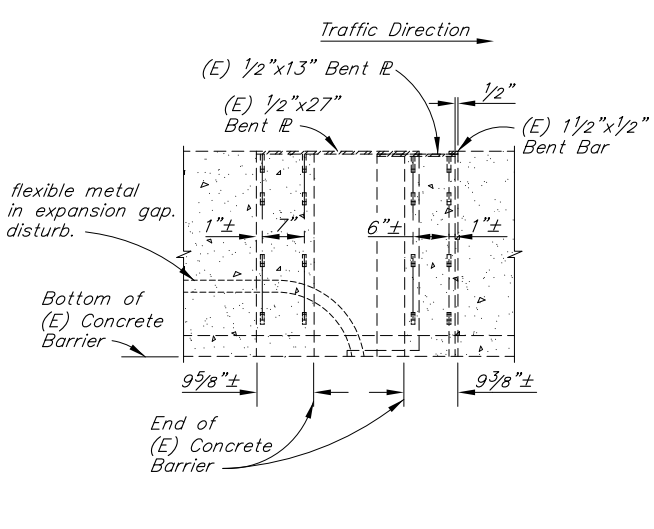
EXISTING HALF ELEVATION

* Dimensions @ End Beam
 12 6 0 1 2 3
 In. Feet



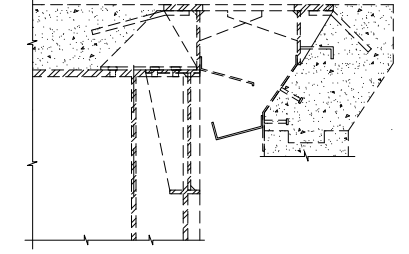
SECTION D-D

12 6 0 1 2 3
 In. Feet



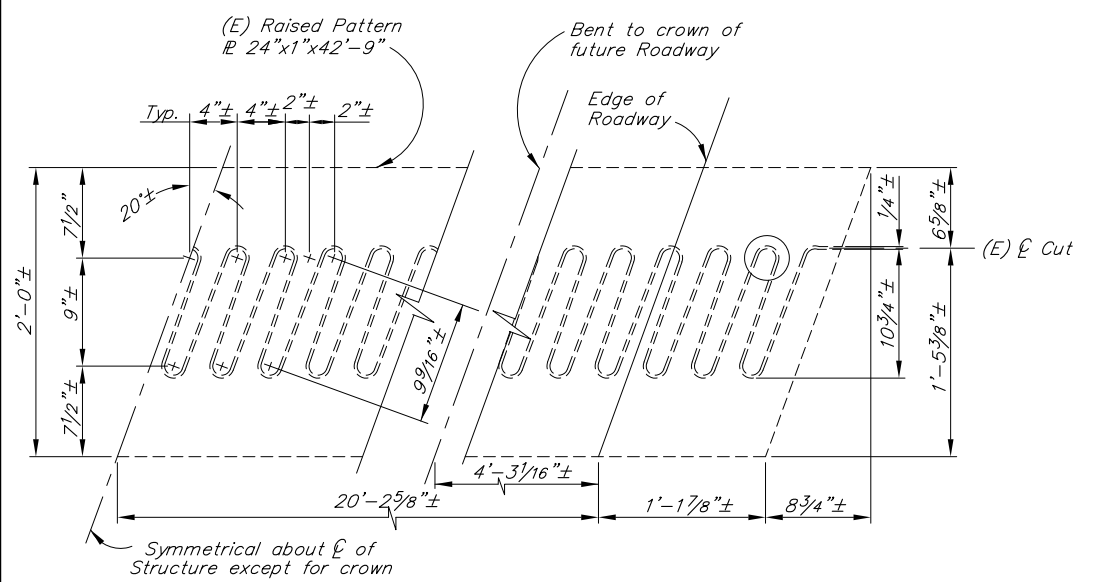
SECTION E-E

12 6 0 1 2 3
 In. Feet



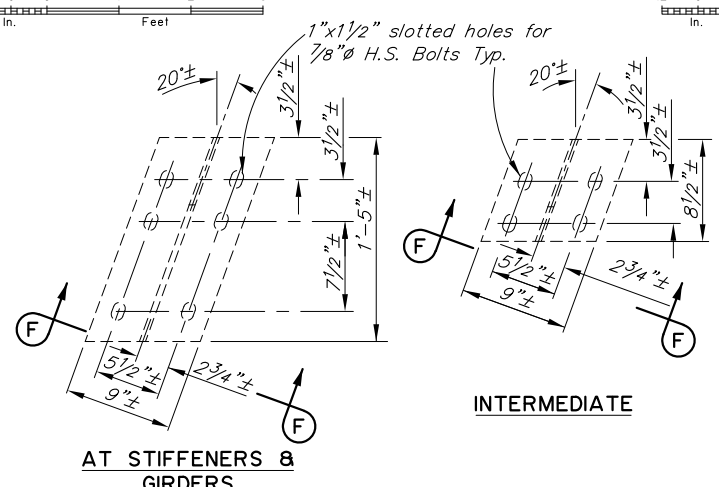
EXPANSION DEVICE CROSS DRAIN

No Scale



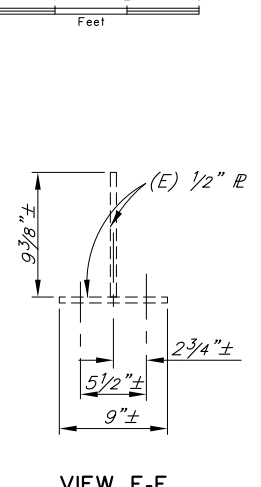
FINGER PLATE DETAIL

12 6 0 1
 In. Feet

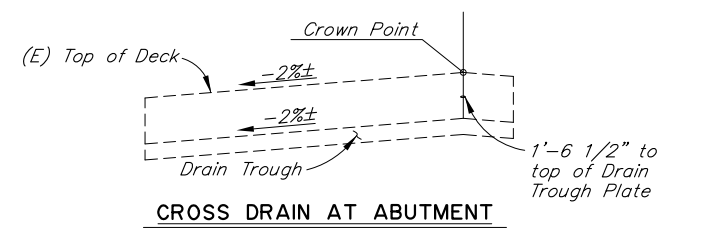


FINGER & CONNECTOR PLATE DETAIL

12 6 0 1
 In. Feet



VIEW F-F



CROSS DRAIN AT ABUTMENT

No Scale

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.


R:\cad\Glenn Hwy\1885-(E)_JOINT 2_Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

KNIK RIVER SOUTHBOUND
 GLENN HIGHWAY
EXISTING JOINT DETAILS 2

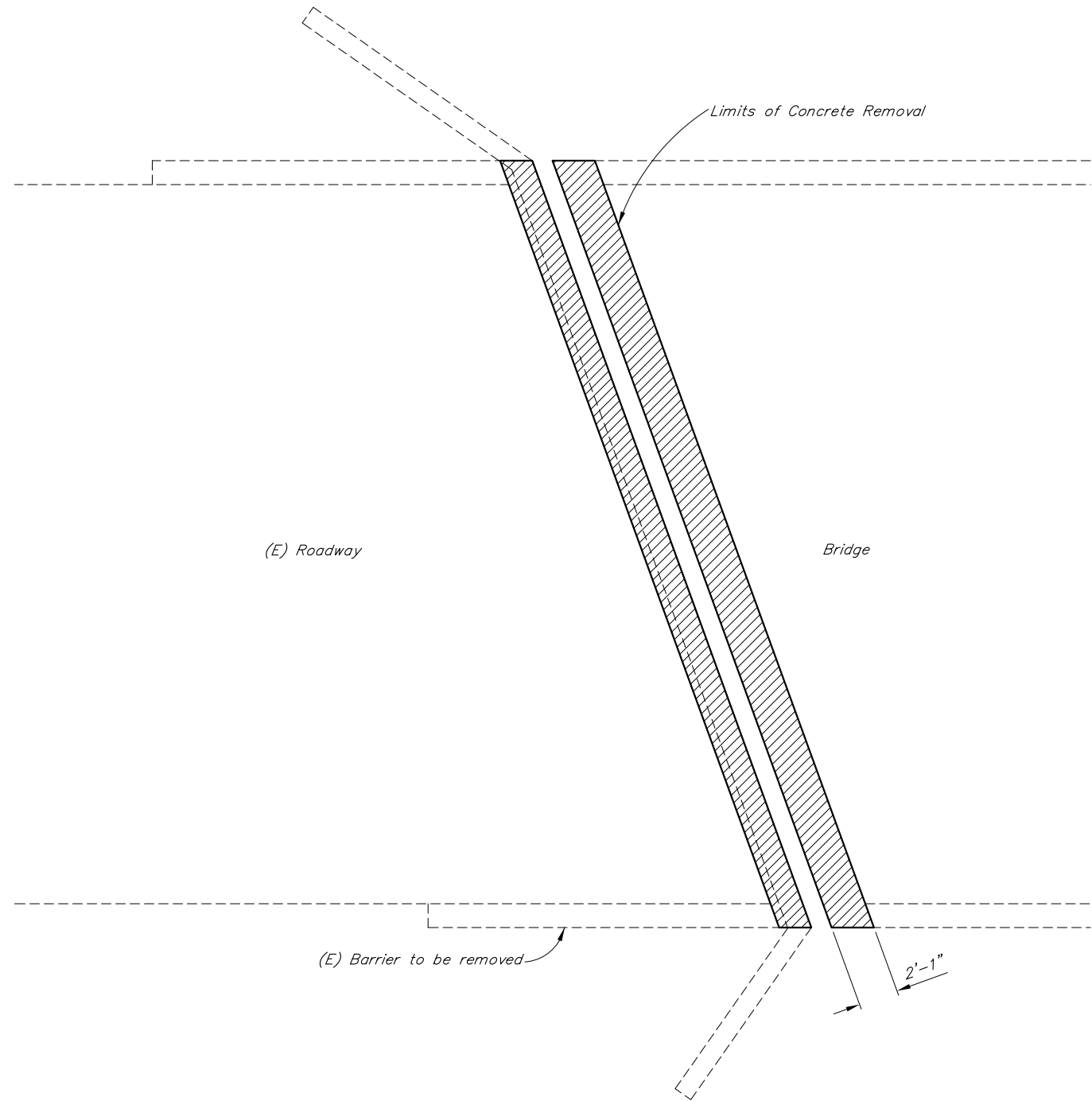

 BRIDGE NO. 1885
 DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N21	N24

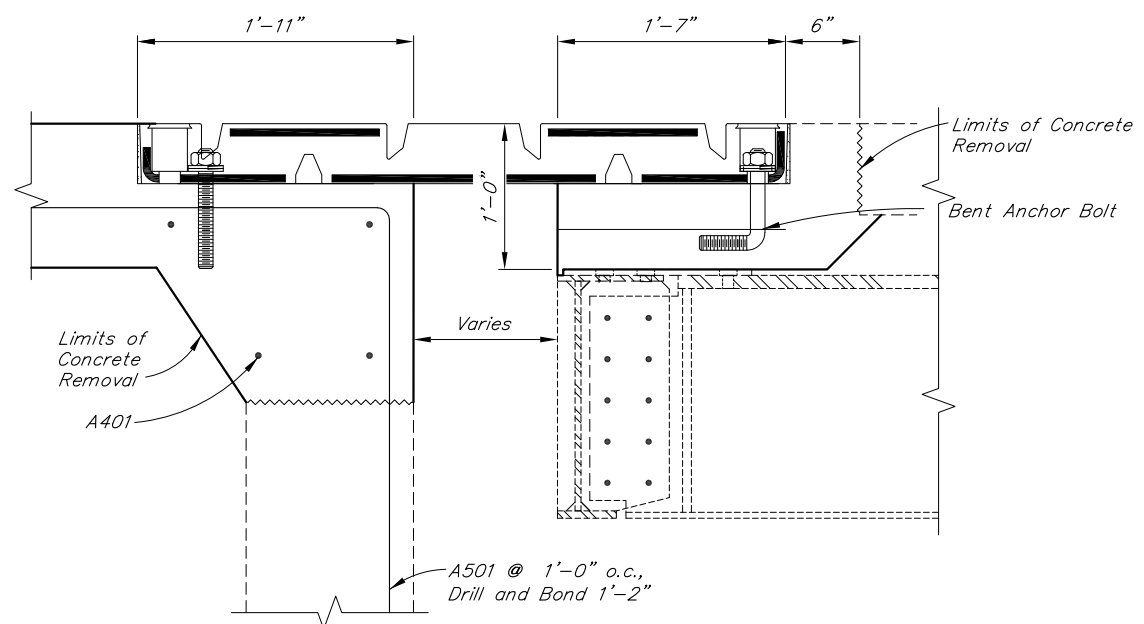
REINFORCING STEEL - ABUTMENT I

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401	E	4	39	5'-5"	BENT	
A501	E	5	4	39'-10"	---	

A501
E - Epoxy-Coated



EXISTING PLAN
(Abutment 1 shown, Abutment 8 similar)



PROPOSED EXPANSION JOINT
(Stringer Shown, Girder Similar)

ABUTMENT JOINT WIDTH	
JOINT WIDTH (IN)	TEMPERATURE
1'-0"	30°F
11 ⁷ / ₁₆ "	40°F
10 ¹³ / ₁₆ "	50°F
10 ¹ / ₄ "	60°F
9 ⁵ / ₈ "	70°F
9 ¹ / ₁₆ "	80°F

Adjust by 9/16" per 10°F for temperatures not shown

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.


R:\cad\Glenn Hwy\1885-JOINT Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

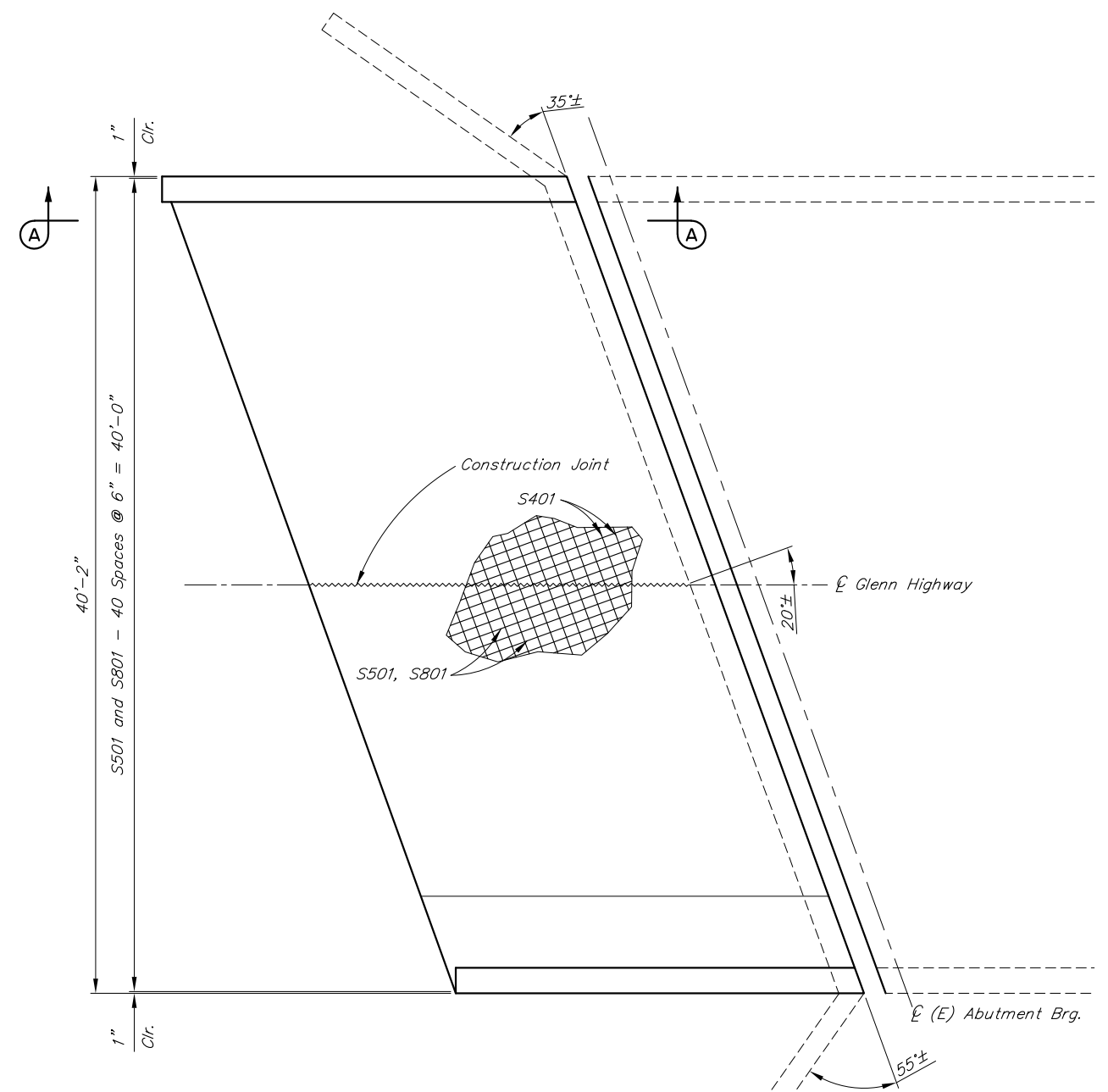
KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
EXPANSION JOINT


BRIDGE NO. 1885
DWG. NO. 5

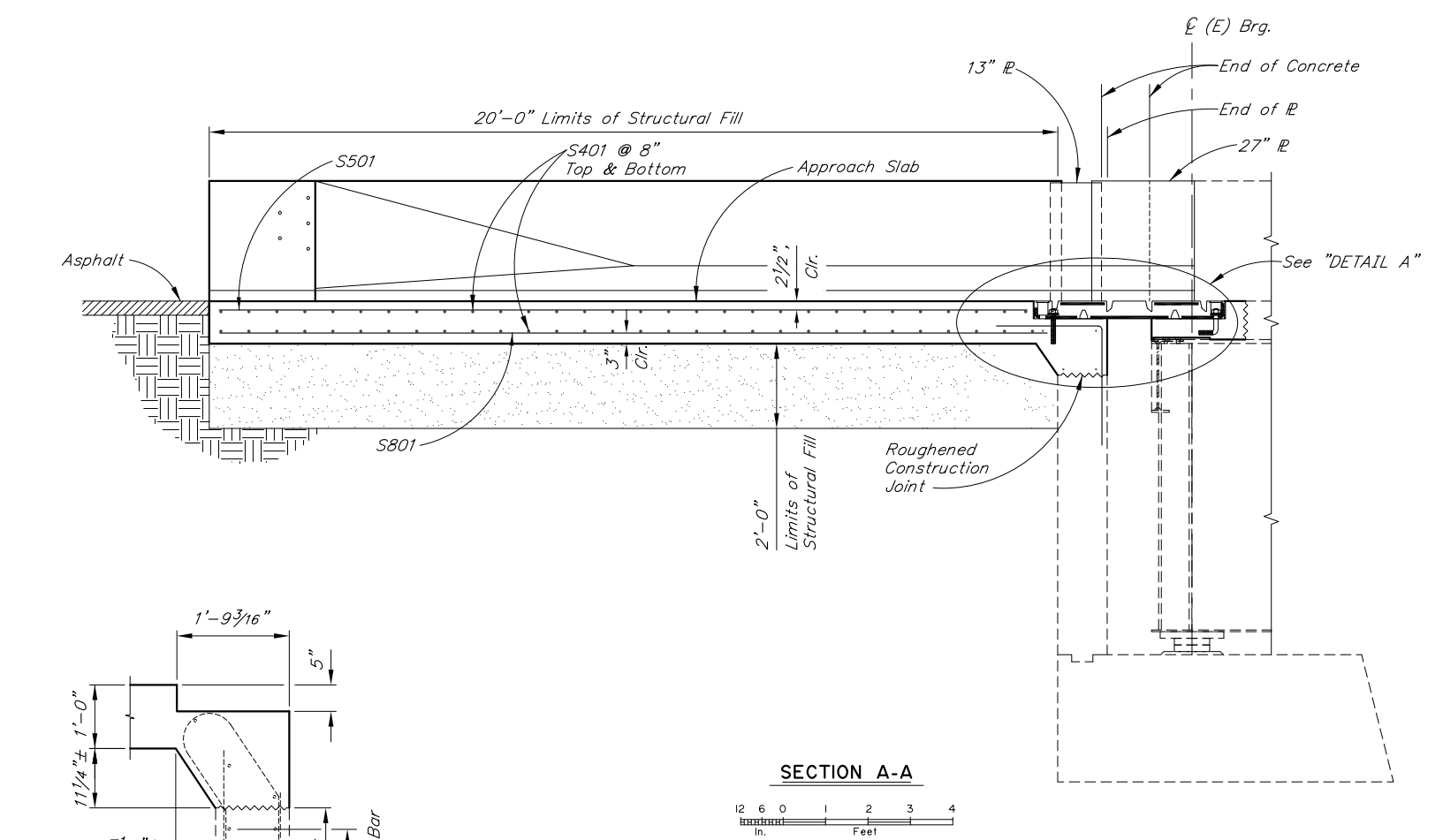
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N22	N24

REINFORCING STEEL - ONE SLAB

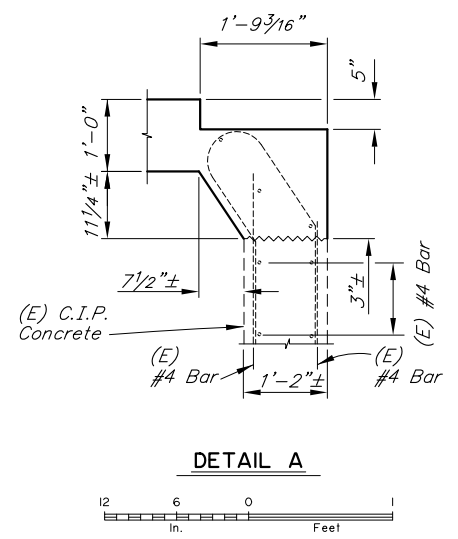
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
S401	E,M,S	4	56	42'-4"	---	
S501	E	5	80	18'-8"	---	
S801	E	8	80	18'-8"	---	



PLAN
(Abutment 1 shown, Abutment 8 similar)



SECTION A-A



DETAIL A

PRELIMINARY PLAN

- NOTES:**
- (E) = Existing
 - = Existing
 - = Proposed
1. Verify controlling field dimensions before ordering or fabricating any material.


R:\cad\Glenn Hwy\1885-APPROACH Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
APPROACH SLABS

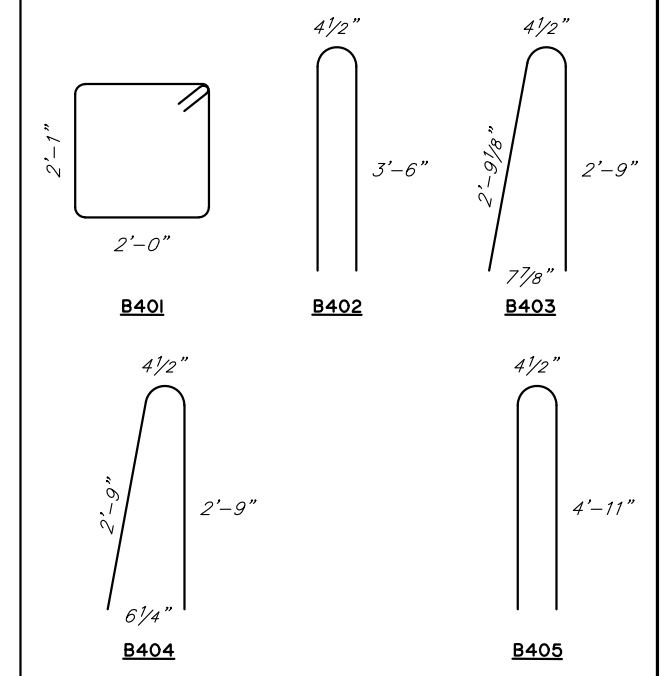

BRIDGE NO. 1885
DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N23	N24

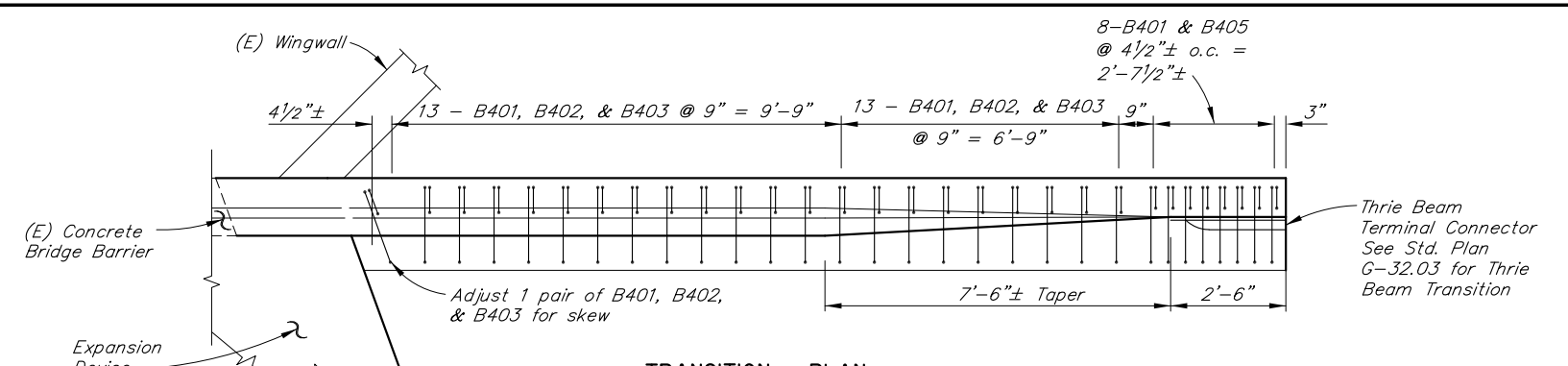
REINFORCING STEEL - CONCRETE BARRIER

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
B401	E	4	124	9'-0"	BENT
B402	E	4	92	7'-4 1/2"	BENT
B403	E	4	56	5'-9 5/8"	BENT
B404	E	4	36	5'-9 1/2"	BENT
B405	E	4	32	10'-2 1/2"	BENT
B501	E	5	44	19'-6"	---

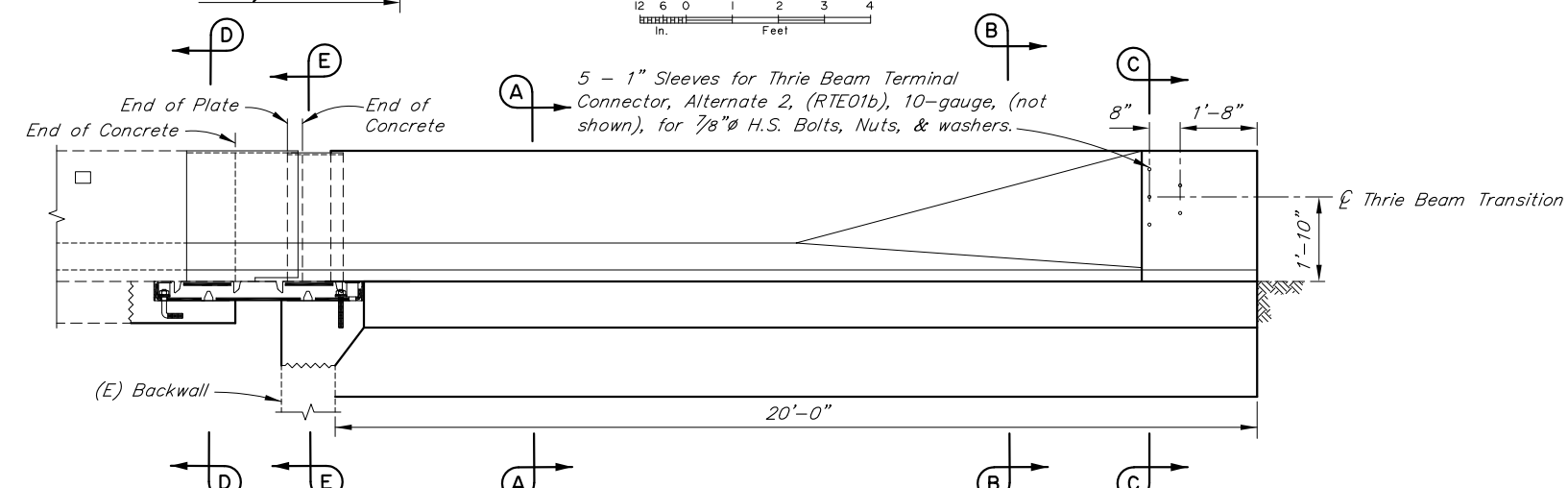
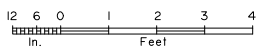
BENDING DIAGRAM



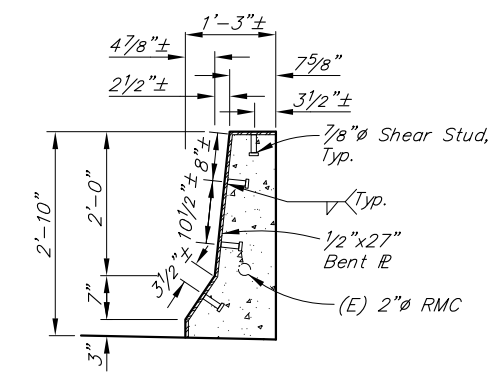
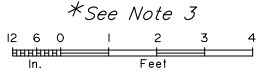
E - Epoxy-Coated Reinforcing Steel



TRANSITION - PLAN

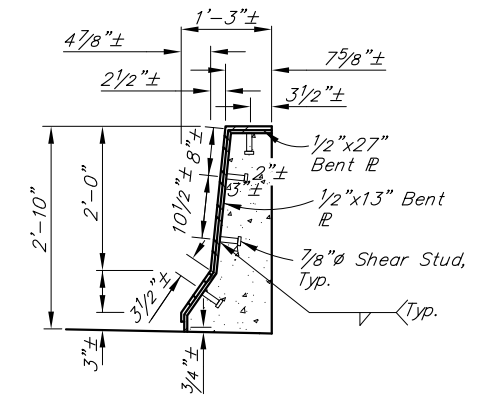


TRANSITION - ELEVATION



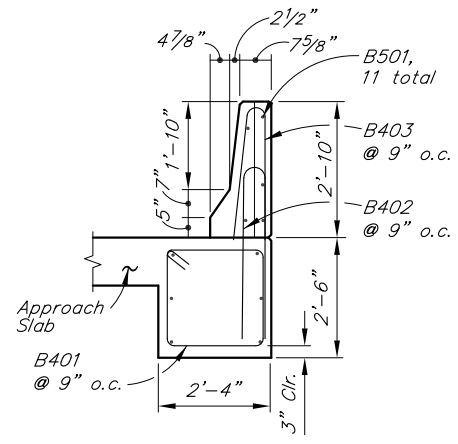
SECTION D-D

No Scale

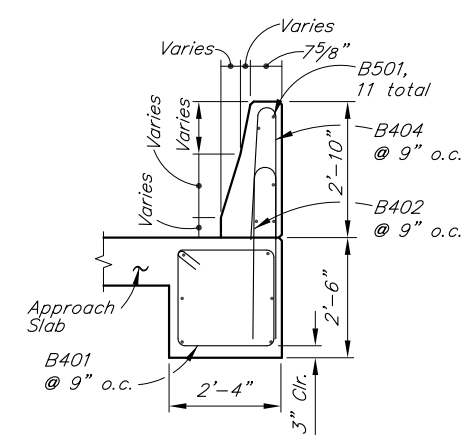
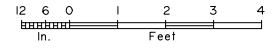


SECTION E-E

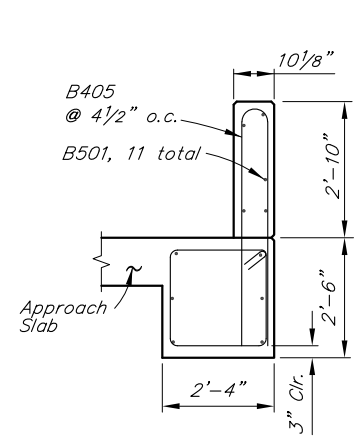
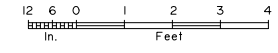
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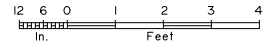
SECTION A-A



SECTION B-B



SECTION C-C



PRELIMINARY PLAN

NOTES:

- (E) = Existing
 - = Existing
 - = Proposed
1. Bridge Rail to be constructed Plumb.
 2. Verify controlling field dimensions before ordering or fabricating any material.
 3. Do not damage existing conduits containing lighting service, Disconnect and cap unused conduits.

R:\cad\Glenn Hwy\1885-CONCRETE BARRIER Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

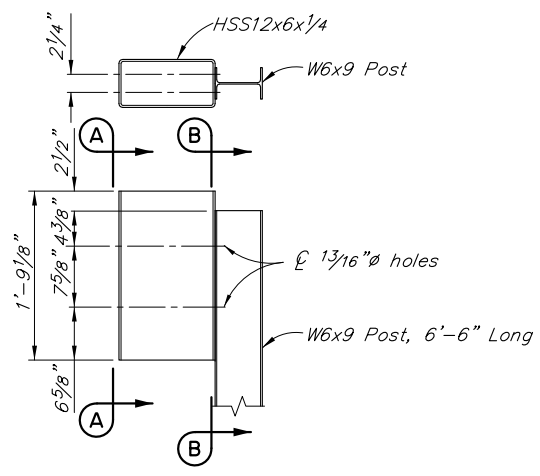
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
CONCRETE BARRIER

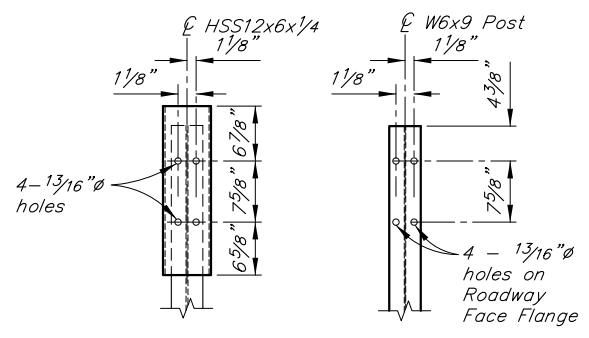


BRIDGE NO. 1885
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	CFHWY00523/0001685	2023	N24	N24

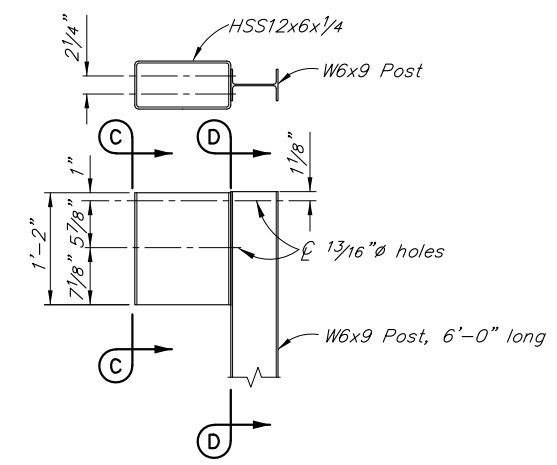


THRIE BEAM STEEL BLOCKOUT - LONG

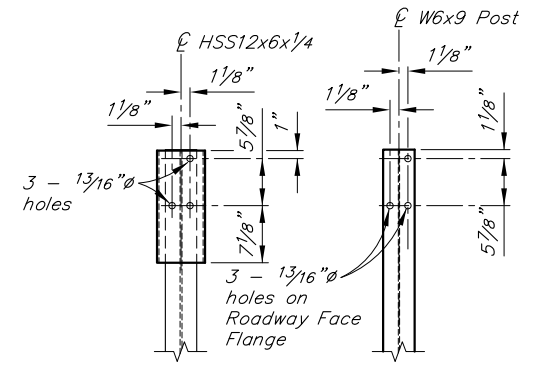


VIEW A-A

SECTION B-B

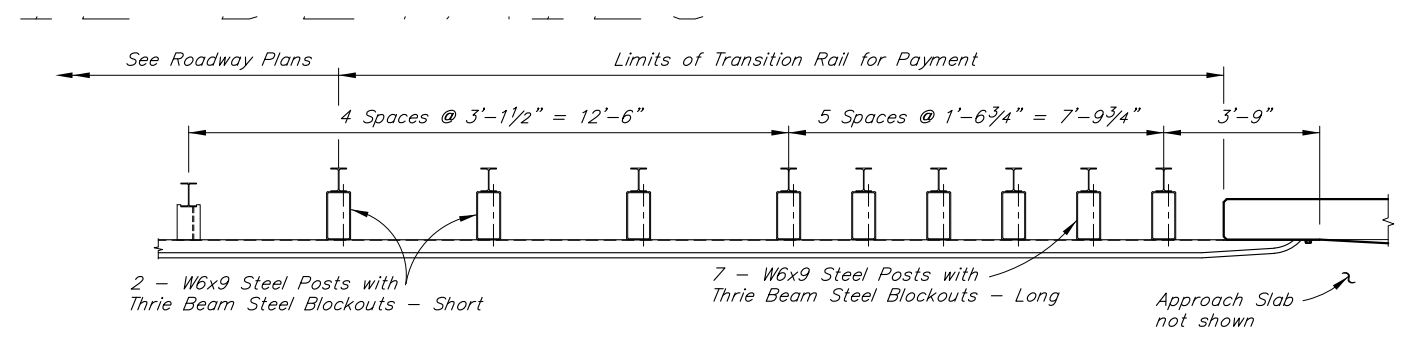


THRIE BEAM STEEL BLOCKOUT - SHORT

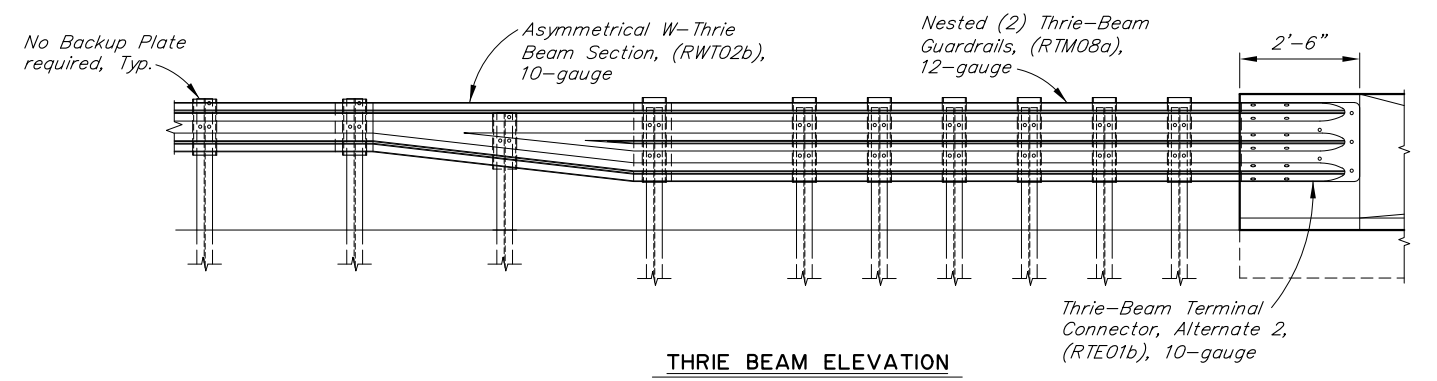


VIEW C-C

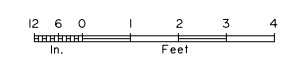
SECTION D-D



PLAN



THRIE BEAM ELEVATION



PRELIMINARY PLAN

NOTES:

- (E) = Existing
 - = Existing
 - = Proposed
1. Bridge Rail to be constructed Plumb.
 2. Verify controlling field dimensions before ordering or fabricating any material.
 3. Do not damage existing conduits containing lighting service, Disconnect and cap unused conduits.


R:\cad\Glenn Hwy\1885-TRANSITION RAIL Thu, Mar/09/23 09:18am

DESIGNED BY:	Ben Still	CHECKED:	Leslie Daugherty
DRAWN BY:	Javier De Leon	CHECKED:	Ben Still
QUANTITIES BY:	Ben Still	CHECKED:	Leslie Daugherty

REHABILITATION

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

KNIK RIVER SOUTHBOUND
GLENN HIGHWAY
THRIE BEAM TRANSITION


BRIDGE NO. 1885
DWG. NO. 8