

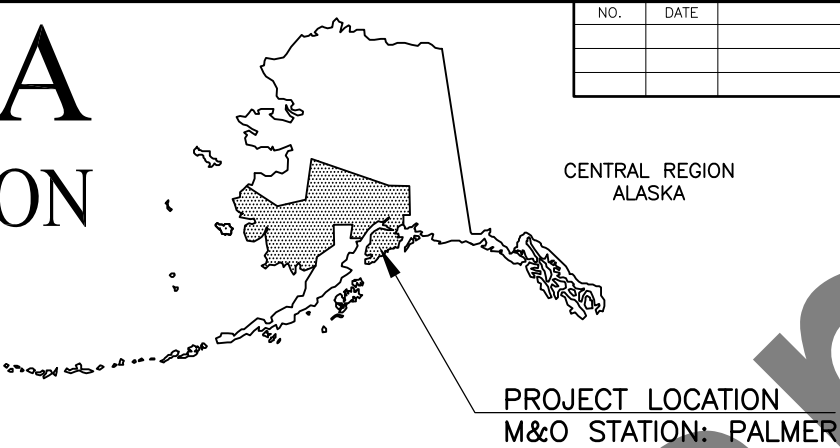
FILE C:\USERS\UPARADA\DOCUMENTS\HSIP\GLENN MB MP30-34 - 00294\CV3D16\PLANSET\CERT\00294_A01NA02_TTL_CERT.DWG DATE/TIME 7/7/2020 3:49 PM LAYOUT A01 DESIGNED CHECKED DRAFTED

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
HSIP:GLENN HIGHWAY MEDIAN BARRIER, MP 30 TO 34
PROJECT NO. 0A16053/CFHWY00294
GRADING, DRAINAGE, PAVING, AND PROTECTION

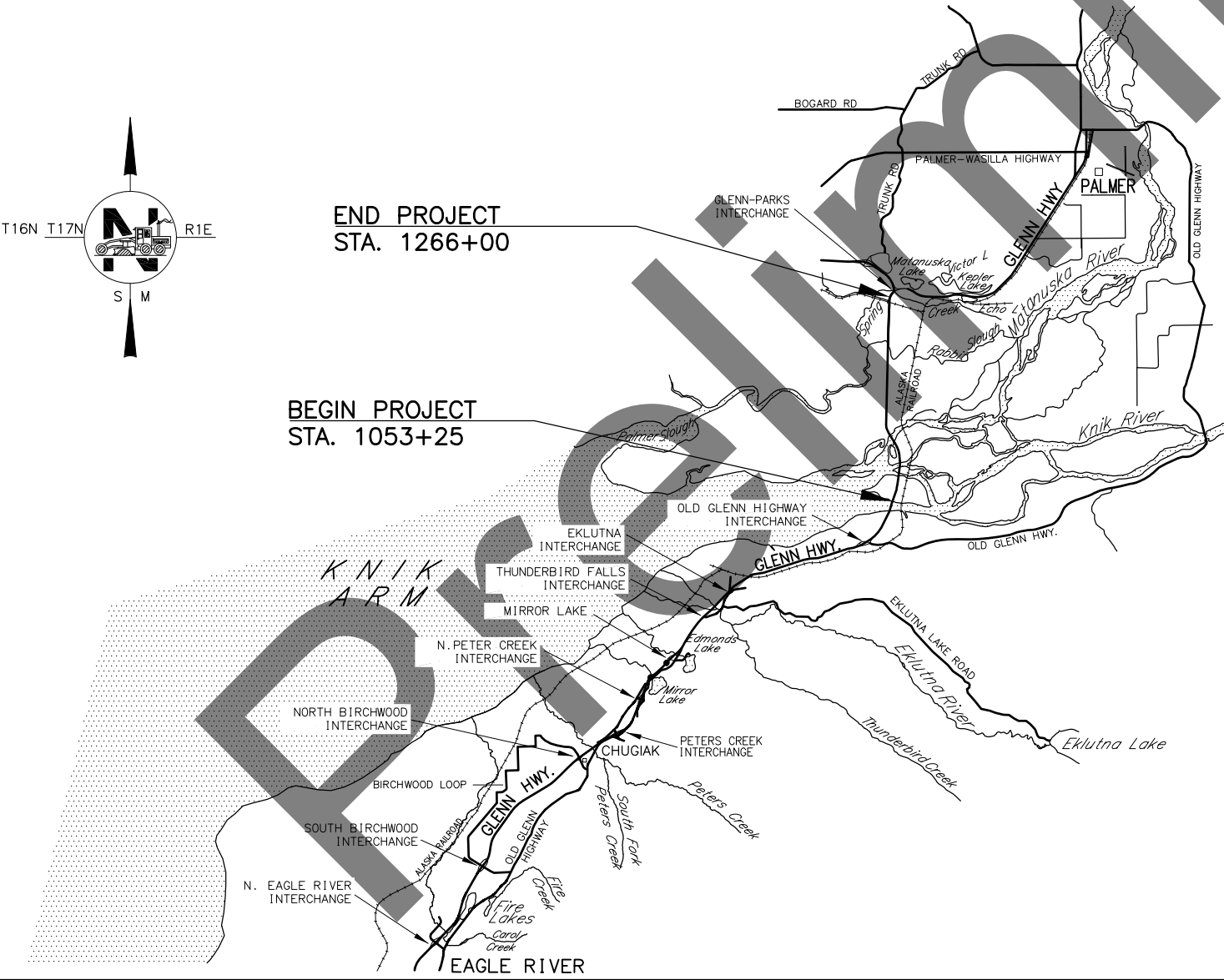
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	A01	A04

ROUTE ID#	1060000I000	MILEPOINT	28.608 - 33.020
ROUTE ID#	1060000D000	MILEPOINT	1.255 - 5.708
LATITUDE	61.5086	LONGITUDE	-149.25387



PROJECT SUMMARY		
ROADWAY	MEDIAN WIDTH	LENGTH
GLENN HIGHWAY MP 30-34	50-60 FT	4.6 MILES

DESIGN DESIGNATIONS	
	GLENN HIGHWAY
FUNCTIONAL CLASS	INTERSTATE
AADT (2017)	28,559
DESIGN SPEED (V) (MPH)	65



CERTIFICATION
7/2020

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

APPROVED:	
REGIONAL PRE-CONSTRUCTION ENGINEER	DATE
CONCUR:	
REGIONAL CONSTRUCTION ENGINEER	DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A16053/CFHWY00294	2020	A02	A04

GENERAL NOTES:

3. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
 2. THE ROW LINES SHOWN WERE DRAWN USING INFORMATION FROM RIGHT OF WAY MAP: GLENN HIGHWAY, EKLUTNA TO PARKS HIGHWAY PHASE 1, NO. I-0A1-5(1)/53065.
 3. ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATE METHOD APPROVED BY THE ENGINEER.
 4. APPLY STE-1 ASPHALT FOR TACK COAT BETWEEN PAVEMENT LIFTS AND TO THE PLANED PAVEMENT.
 5. RESTRAIN PIPE DURING BACKFILL OPERATIONS AS APPROVED BY THE ENGINEER.
 6. PERMANENT PAVEMENT MARKINGS SHALL BE INLAID METHYL METHACRYLATE 250 MILS.
 7. FOR THE PURPOSE OF THESE PLANS BARRIER AND GUARDRAIL ARE SYNONYMOUS.
 8. PLACE 4" TOPSOIL AND SEED ANY AREAS DISTURBED BY CONSTRUCTION AND AS DIRECTED BY THE ENGINEER.
 9. THE EXISTING INFORMATION SHOWN IN THE PLANS IS FROM AS-BUILTS AND HAS BEEN PARTIALLY FIELD VERIFIED. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. ADJUST INSTALLATIONS AS DIRECTED BY THE ENGINEER.
 10. THE STATIONING FOR THIS PROJECT IS APPROXIMATE. STATIONING IS INTENDED TO PROVIDE GENERAL GUIDANCE FOR LOCATING FEATURES. SPECIFIC INSTALLATION WILL REQUIRE FIELD ADJUSTMENT.
 11. MONUMENT TABLES AND STATIONING INFORMATION IS AVAILABLE FROM THE FOLLOWING RIGHT OF WAY MAPS: GLENN HIGHWAY, EKLUTNA TO PARKS HIGHWAY PHASE 1, NO. I-0A1-5(1)/53065.
- CONTRACTORS SHOULD BE AWARE THAT THESE MONUMENTS AND OTHERS MAY EXIST IN THE PROJECT AREA AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO WORK AROUND ALL MONUMENTS WITHOUT DISTURBING THE MONUMENT OR CASE. THE LOCATIONS OF THESE MONUMENTS HAVE NOT BEEN FIELD VERIFIED. NEITHER THE MONUMENTS NOR THE CASES ARE TO BE REMOVED FROM THIS PROJECT.
12. WHEN RECONDITIONING, ADJUST OR RELOCATE SIGNS AS NEEDED OR AS DIRECTED BY THE ENGINEER.

INDEX	
SHEET NO.	DESCRIPTION
A01	TITLE SHEET
A02	SHEET LAYOUT, INDEX, AND GENERAL NOTES
A03	LEGEND
A04	SURVEY CONTROL SHEET
B01-B02	TYPICAL SECTIONS
C01	ESTIMATE OF QUANTITIES
D01-D04	SUMMARY SHEETS
E01-E06	DETAIL SHEETS
F01-F09	PLAN SHEETS
H01-H04	SIGNING AND STRIPING SHEET

THE FOLLOWING ALASKA STANDARD PLANS
APPLY TO THIS PROJECT:

C-04.12, C-05.20
D-01.02, D-04.22, D-06.10
E-09.00
S-00.12, S-05.02, S-30.05, S-31.02
T-21.04, T-25.10

THE FOLLOWING ALASKA REGIONAL STANDARD
DETAIL APPLY TO THIS PROJECT:

CR-T-04.10

ABBREVIATIONS:

NB – NORTHBOUND
SB – SOUTHBOUND
CL – CENTERLINE
CL – CONTROL LINE
LON – LENGTH OF NEED
HMA – HOT MIX ASPHALT
HTCG – HIGH TENSION CABLE GUARDRAIL
STA – STATIONING
CSP – CORRUGATED STEEL PIPE
EVC – EMERGENCY VEHICLE CROSSOVER

SPECIFICATION:

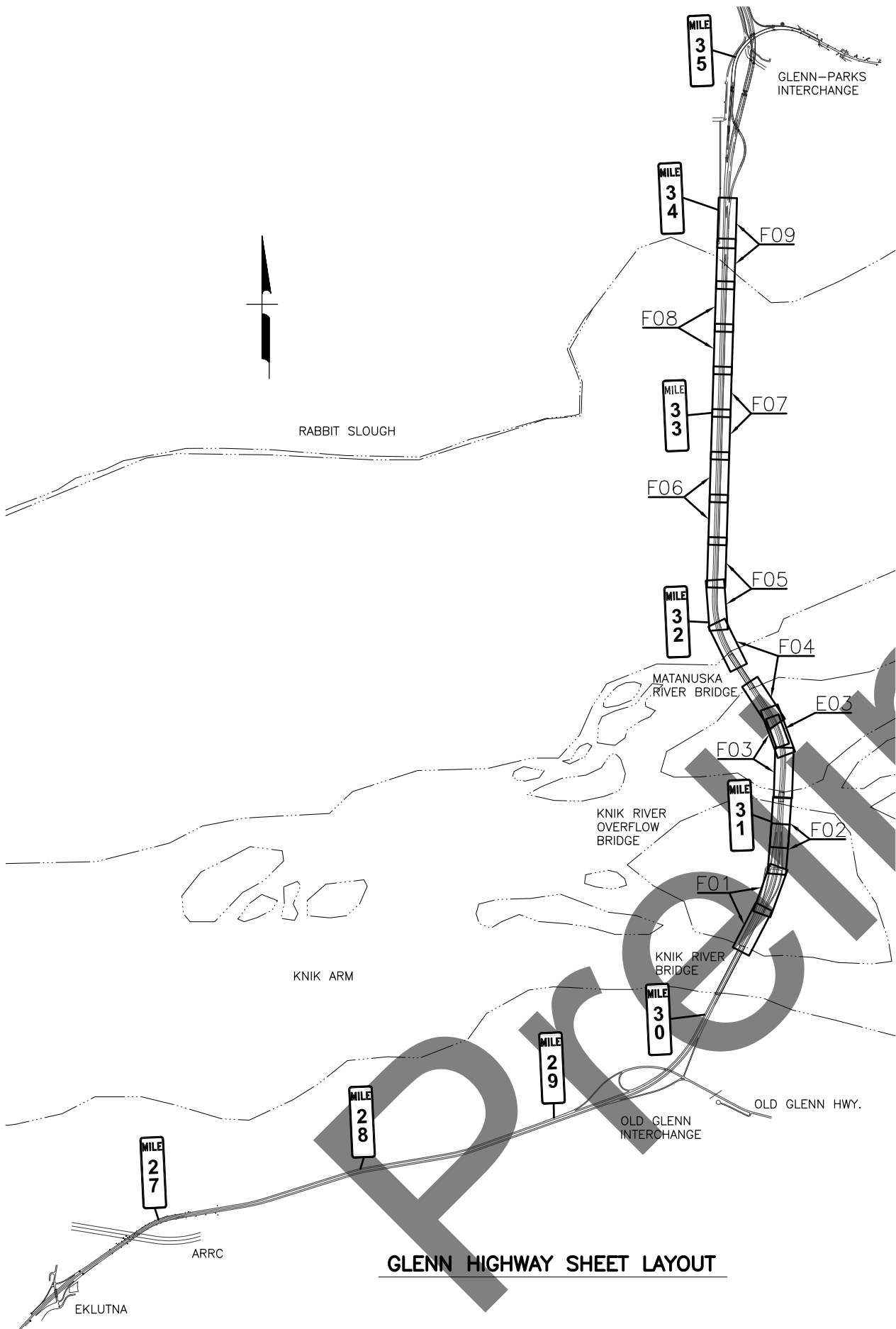
CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2020 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

SHEET LAYOUT, INDEX, AND GENERAL NOTES



GLENN HIGHWAY SHEET LAYOUT

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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		
RECONDITIONING		

TOPOGRAPHY		
	EXISTING	PROPOSED
LAKE OR POND, WETLANDS		
TREE (CONIFER/DECIDUOUS)		
TREELINE (EDGE OF VEGETATION)		
PLANTER		
BUILDING OR 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		

TOPOGRAPHY		
	EXISTING	PROPOSED
CONTOUR, MAJOR OR MINOR		
DRAINAGE FLOW		
CREEK (CENTERLINE)		
RIVER (EDGE OF WATER)		

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

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A16053/CFHWY00294	2020	A03	A04
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				
LEGEND SHEET				

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	A04	A04

SURVEY
CONTROL
ON
WAY
PLACEHOLDER

CERT 07/2020	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES GLENN HIGHWAY MEDIAN BARRIER, MP 30 TO 34 SURVEY CONTROL
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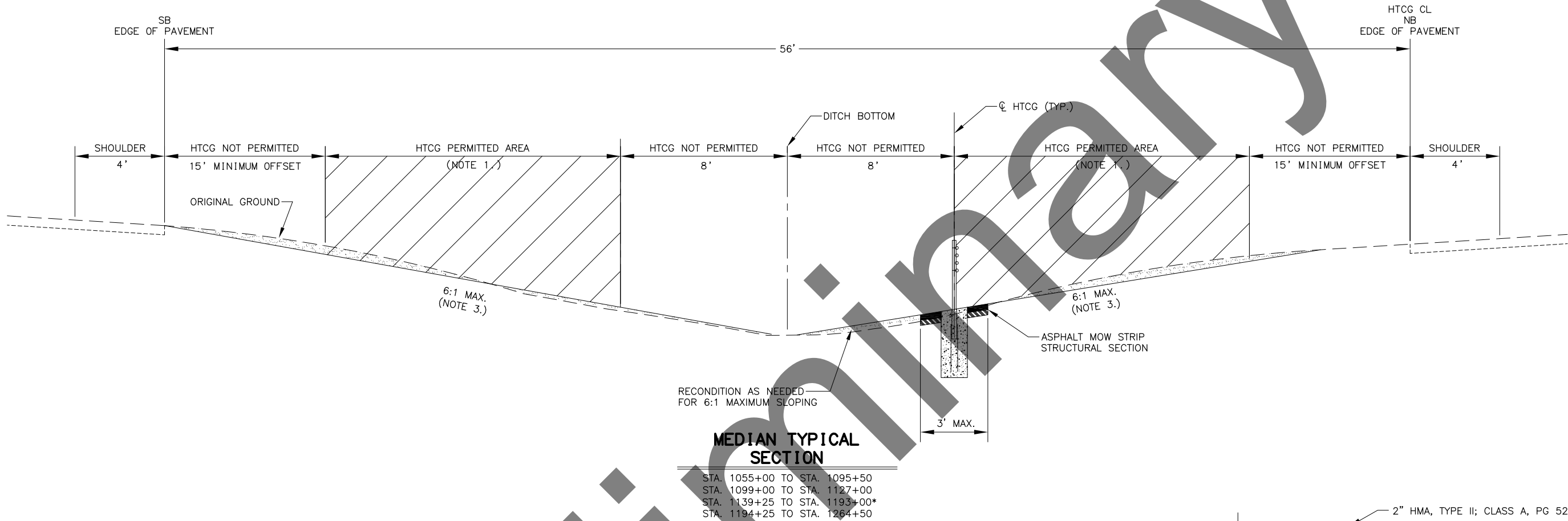
DESIGNED

B01

LAYOUT

DATE/TIME 7/20/2020 12:02 PM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16053/CFHWY00294	2020	B01	B02



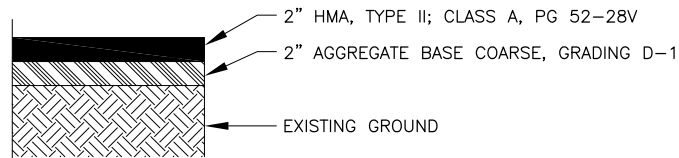
MEDIAN TYPICAL SECTION

STA. 1055+00 TO STA. 1095+50
STA. 1099+00 TO STA. 1127+00
STA. 1139+25 TO STA. 1193+00*
STA. 1194+25 TO STA. 1264+50

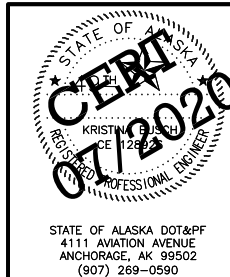
* INSTALL HTCG ON SB EMBANKMENT

NOTE:

1. PLACEMENT OF HTCG VARIES WITHIN THE BARRIER PERMITTED AREA.
2. FOLLOW INSTALLATION INSTRUCTIONS IN DETAIL SHEETS.
3. EXISTING EMBANKMENT SLOPES TO REMAIN. RECONDITIONING OF SLOPES PER MEDIAN TYPICAL IS LIMITED TO STATIONING PROVIDED IN D-SHEET SUMMARY TABLE.
4. GRUB 5' ON CENTER FOR INSTALLATION OF HTCG AND MOW STRIP



ASPHALT MOW STRIP STRUCTURAL SECTION

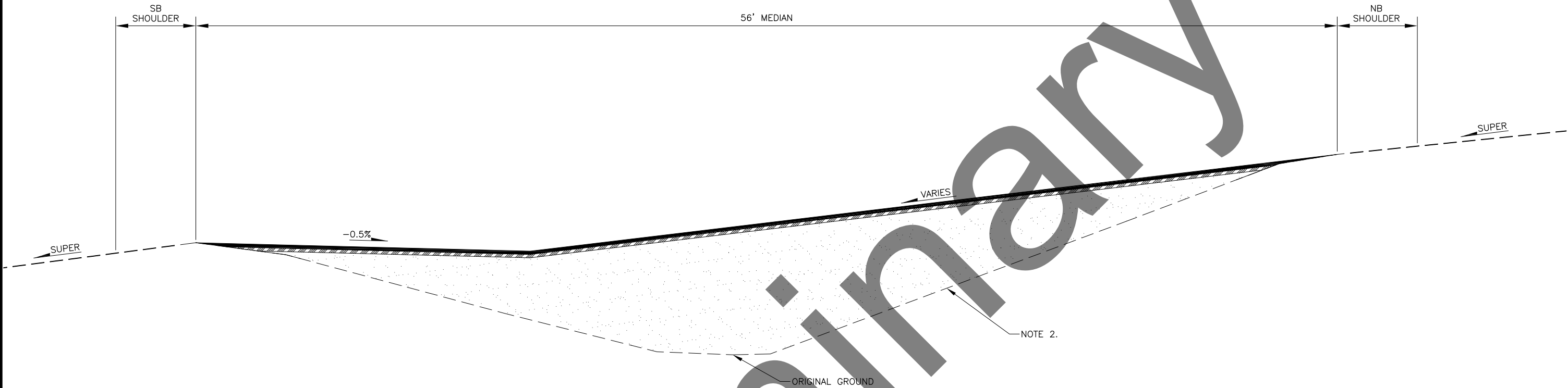


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**

TYPICAL SECTION

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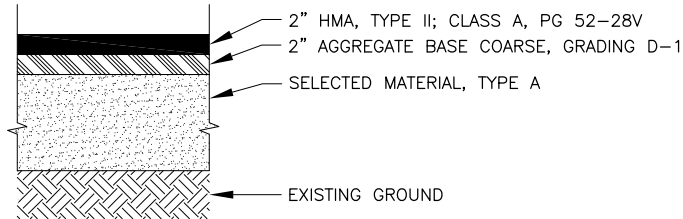
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16053/CFHWY00294	2020	B02	B02



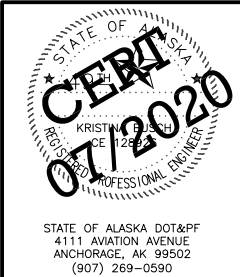
MEDIAN CROSSOVER
STA. 1108+75 TO STA. 1114+25

NOTES:

1. REMOVE EXISTING ORGANICS AND TOPSOIL FROM EMBANKMENT.
2. FILL TO BE SELECTED MATERIAL, TYPE A OR AS APPROVED BY THE ENGINEER.
3. SEE GRADING DETAILS SHEET FOR MEDIAN CROSSOVER.



MEDIAN CROSSOVER STRUCTURAL SECTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**

**CROSSOVER
TYPICAL SECTION**

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	C01	C01

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201.0002.0000	GRUBBING	ACRE	16.5
203.2053.0000	EMERGENCY VEHICLE CROSSOVER #1	LS	ALL REQ'D
301.0003.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	1,050
303.0001.0000	RECONDITIONING	STATION	235
401.0001.002A	HMA, TYPE II, CLASS A	TON	1,152
401.0004.5240	ASPHALT BINDER, GRADE PG 52-28V	TON	67.0
603.2038.0036	CSP 36 INCH	LS	ALL REQ'D
606.2022.0000	HIGH TENSION CABLE GUARDRAIL	LF	17,880
606.2023.0000	HIGH TENSION CABLE GUARDRAIL - END TERMINAL	EACH	10
606.2024.0000	HIGH TENSION CABLE GUARDRAIL - END TERMINAL FOUNDATION	EACH	10
618.0001.0000	SEEDING	ACRE	15.0
619.2003.0000	SEDIMENT RETENTION FIBER ROLLS	LF	23,600
620.0001.0000	TOPSOIL	SY	66,730
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	HOURL	40
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQ'D
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CS	ALL REQ'D
643.0032.0000	FLAGGING	CS	ALL REQ'D
644.0001.0000	FIELD OFFICE	LS	ALL REQ'D
644.2004.0000	ENGINEERING COMMUNICATIONS	CS	ALL REQ'D
646.0001.0000	CPM SCHEDULING	LS	ALL REQ'D
647.2000.0000	WIDE PAD DOZER, 65 HP MIN	CS	ALL REQ'D
682.2000.0000	VAC-TRUCK POTHOLE	CS	ALL REQ'D

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	UNIT
301.0003.00D1	AGGREGATE BASE COURSE, GRADING D-1	144 LB./FT. ³
401.0001.002A	HMA, TYPE II; CLASS A	151 LB./FT. ³
401.0004.5240	ASPHALT BINDER, GRADE PG 52-28V	5.3% OF TOTAL WEIGHT OF 401(1A)
603.2038.0036	CSP 36 INCH	
	BORROW	144 LB./FT. ³
	HMA, TYPE II, CLASS A	151 LB./FT. ³
	ASPHALT BINDER, GRADE PG 52-40V	5.3% OF TOTAL WEIGHT OF HMA, TYPE II
	WATER FOR SEEDING	1.0 GAL./FT. ²



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

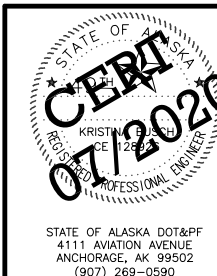
ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	D01	D04

303.0001.0000

RECONDITIONING

SHEET	FROM			TO			STATIONS	REMARKS
	STATION	OFFSET	WIDTH	STATION	OFFSET	WIDTH		
F01	1055+00	12.8' LT.	20 FT.	1056+50	4.8' LT.	24 FT.	1.50	
F01	1057+50	48.3' LT.	24 FT.	1060+00	51.5' LT.	24 FT.	2.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F01	1059+00	4.2' LT.	24 FT.	1060+00	4.9' LT.	24 FT.	1.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F01	1063+00	0.3' LT.	24 FT.	1081+00	0.8' LT.	24 FT.	18.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F01	1064+00	56.1' LT.	24 FT.	1064+50	56.1' LT.	24 FT.	0.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F01	1071+00	52.9' LT.	28 FT.	1076+00	51.5' LT.	24 FT.	5.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F01	1081+00	51.2' LT.	24 FT.	1095+50	54.5' LT.	24 FT.	14.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F01	1091+50	1.0' LT.	24 FT.	1095+50	2.2' LT.	24 FT.	4.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F03	1100+00	2.2' LT.	24 FT.	1103+00	0.5' LT.	24 FT.	3.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F03	1102+00	49.5' LT.	24 FT.	1103+50	49.7' LT.	24 FT.	1.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F03	1105+50	1.3' LT.	24 FT.	1108+25	1.2' LT.	24 FT.	2.75	RESTORE MEDIAN EMBANKMENT TO 6:1
F03-F04	1114+50	0.6' LT.	24 FT.	1127+00	1.6' LT.	24 FT.	12.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F04	1123+50	49.1' LT.	24 FT.	1127+00	47.9' LT.	24 FT.	3.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F04	1141+00	2.11' LT.	24 FT.	1143+50	2.7' LT.	24 FT.	2.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F04-F06	1141+00	43.6' LT.	24 FT.	1177+00	53.3' LT.	24 FT.	36.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F05-F06	1163+50	3.1' LT.	24 FT.	1177+00	3.2' LT.	24 FT.	13.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F06	1183+00	1.9' LT.	24 FT.	1193+00	3.9' LT.	24 FT.	10.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F06	1183+00	53.1' LT.	24 FT.	1193+00	51.9' LT.	24 FT.	10.00	RESTORE MEDIAN EMBANKMENT TO 6:1
F06-F08	1194+50	5.4' LT.	24 FT.	1244+00	1.5' LT.	24 FT.	49.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F06	1194+50	51.3' LT.	24 FT.	1196+00	52.4' LT.	24 FT.	1.50	RESTORE MEDIAN EMBANKMENT TO 6:1
F07	1202+50	52.2' LT.	24 FT.	1244+00	52.2' LT.	24 FT.	41.50	RESTORE MEDIAN EMBANKMENT TO 6:1
						TOTAL:	234.75	
						PAY ITEM QUANTITY:	235.0	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**

SUMMARY TABLES

FILE C:\USERS\JPARADA\DOCUMENTS\HSIP_GLENN_MB_MP30-34 - 00294\GV3016\PLANSET\CERT\00294_D01_SUM_CERT.DWG DATE/TIME 7/27/2020 8:37 AM LAYOUT D02 DESIGNED --- CHECKED --- DRAFTED ---

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	D02	D04

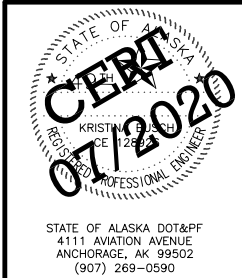
603.2038.0036

PIPE SUMMARY

SHEET	STRUCTURE NO.	INLET			OUTLET			SIZE (INCH)	LENGTH (FEET)	REMARKS
		STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.			
F03	P-2	1108+75.0	41.5 LT	27.92	1108+74.8	141.4 LT	20.26	36	100	SB GLENN HWY DRAINAGE, 12 GAGE MAXIMUM

DRAINAGE STRUCTURE SUMMARY

SHEET	STRUCTURE NO.	TYPE	STATION	OFFSET	TOP OF END SECTION ELEVATION	TYPE	REMARKS
F03	S-1	END SECTION W/ SAFETY BARS	1108+75.0	41.5 LT	30.92	END SECTION FOR CSP 36 INCH - SAFETY BARS	6:1 MEDIAN SLOPE
F03	S-3	CULVERT END SECTION	1108+74.8	141.4 LT	23.26	END SECTION FOR CSP 36 INCH	4:1 SLOPE, ENERGY DISSIPATOR



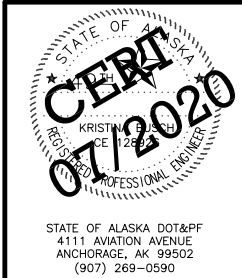
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

SUMMARY TABLES

FILE C:\USERS\JPARADA\DOCUMENTS\HSIP_GLENN_MB_MP30-34 - 00294\GV3016\PLANSET\CERT\00294_D01_SUM_CERT.DWG DATE/TIME 7/27/2020 8:38 AM LAYOUT D03 DESIGNED --- CHECKED --- DRAFTED ---

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	D03	D04

606.2022.0000, 606.2023.0000, 606.2024.0000							
HIGH TENSION CABLE GUARDRAIL SUMMARY							
SHEET	STATION TO STATION			2022.0000	2023.0000	2024.0000	REMARKS
	FROM	TO	OFFSET	HIGH TENSION CABLE GUARDRAIL (HTCB) (L.F.)	HTCG - END TERMINAL (EACH)	HTCG - END TERMINAL FOUNDATION (EACH)	
F01	1055+08	1055+60	13.5' LT.		1	1	
F01-F02	1055+60	1092+75	13.5' LT.	3715			
F02	1092+75	1093+27	13.5' LT.		1	1	
F03	1100+48	1101+00	13.0' LT.		1	1	
F03-F04	1101+00	1125+00	13.0' LT.	2400			
F04	1125+00	1125+52	13.0' LT.		1	1	
F04	1141+48	1142+00	40.5' LT.		1	1	
F04-F06	1142+00	1192+75	40.5' LT.	5075			
F06	1192+75	1193+27	40.5' LT.		1	1	
F06	1194+08	1194+60	13.5' LT.		1	1	
F06-F09	1194+60	1252+25	13.5' LT.	5765			
F09	1252+25	1252+77	13.5' LT.		1	1	
F09	1254+23	1254+75	40.0' LT.		1	1	
F09	1254+75	1264+00	40.0' LT.	925			
F09	1264+00	1264+52	40.0' LT.		1	1	
TOTAL:				17880.00	10.00	10.00	
PAY ITEM QUANTITY:				17,880.0	10.0	10.0	



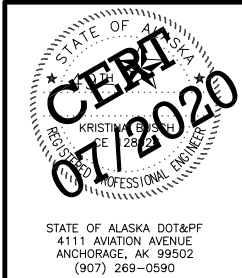
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

SUMMARY TABLES

FILE C:\USERS\JPARADA\DOCUMENTS\HSIP_GLENN_MP_30-34 - 00294\03016\PLANSET\CERT\00294_D01_SUM_CERT.DWG 7/27/2020 8:40 AM D04 LAYOUT DESIGNED CHECKED DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	D04	D04

619.2003.0000					
SEDIMENT RETENTION FIBER ROLLS					
SHEET	STATION		OFFSET	SRFR (L.F.)	REMARKS
	FROM	TO			
F01	1055+00	1056+50	13' LT.	150.0	RECONDITIONING
F01	1057+50	1060+00	48' LT.	250.0	RECONDITIONING
F01	1059+00	1060+00	4' LT.	100.0	RECONDITIONING
F01	1063+00	1081+00	LT.	1800.0	RECONDITIONING
F01	1064+00	1064+50	56' LT.	50.0	RECONDITIONING
F01	1071+00	1076+00	53' LT.	500.0	RECONDITIONING
F01	1081+00	1095+50	51' LT.	1450.0	RECONDITIONING
F01	1091+50	1095+50	1' LT.	400.0	RECONDITIONING
F03	1100+00	1103+00	2' LT.	300.0	RECONDITIONING
F03	1102+00	1103+50	50' LT.	150.0	RECONDITIONING
F03	1105+50	1108+25	1' LT.	275.0	RECONDITIONING
F03	1108+25	1109+25	LT.	100.0	SOUTH CROSSOVER ENBANKMENT
F03	1114+25	1114+50	LT.	25.0	NORTH CROSSOVER ENBANKMENT
F03-F04	1114+50	1127+00	1' LT.	1250.0	RECONDITIONING
F04	1123+50	1127+00	49' LT.	350.0	RECONDITIONING
F04	1141+00	1143+50	2' LT.	250.0	RECONDITIONING
F04-F06	1141+00	1177+00	44' LT.	3600.0	RECONDITIONING
F05-F06	1163+50	1177+00	3' LT.	1350.0	RECONDITIONING
F06	1183+00	1193+00	2' LT.	1000.0	RECONDITIONING WEST MEDIAN EMBANKMENT
F06	1183+00	1193+00	53' LT.	1000.0	RECONDITIONING EAST MEDIAN EMBANKMENT
F06-F08	1194+50	1244+00	5' LT.	4950.0	RECONDITIONING
F06	1194+50	1196+00	51' LT.	150.0	RECONDITIONING
F07	1202+50	1244+00	52' LT.	4150.0	RECONDITIONING
TOTAL :				23600.0	
PAY ITEM QUANTITY:				23,600	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

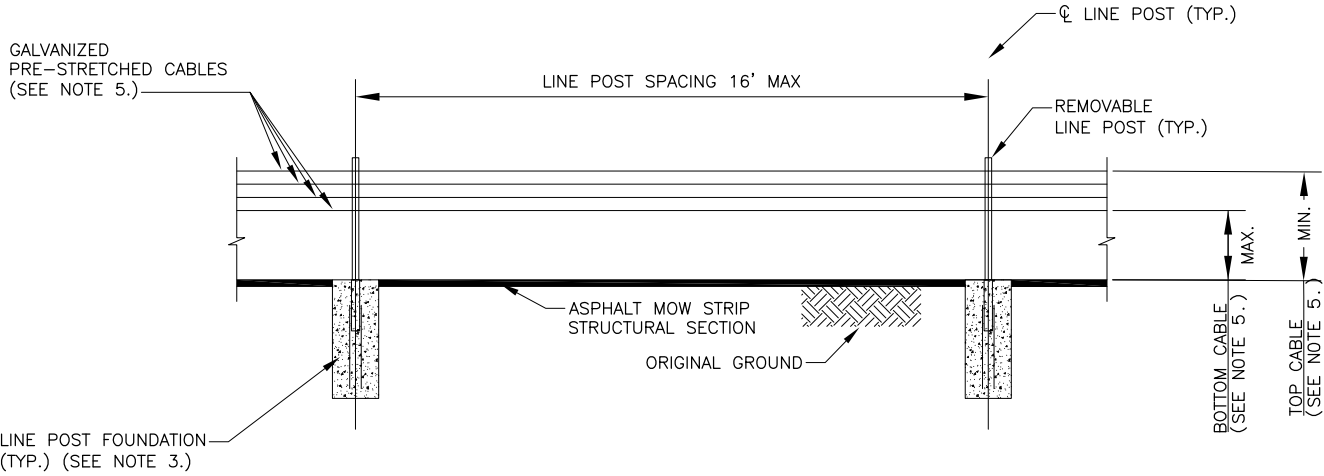
SUMMARY TABLES

FILE C:\USERS\JPARADA\DOCUMENTS\HSIP_GLENN_MB_MP30-34 - 00294\CIV3D16\PLANS\SET\CERT\00294_EOX_HTCB1_CERT.DWG 7/28/2020 11:17 AM E01 LAYOUT 7/28/2020 11:17 AM DESIGNED 7/28/2020 11:17 AM CHECKED 7/28/2020 11:17 AM DRAFTED 7/28/2020 11:17 AM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16053/CFHWY00294	2020	E01	E06

HTCG NOTES:

1. THE DRAWINGS SHOWN ARE SCHEMATIC ONLY, PROVIDING GENERAL GEOMETRY AND COMPONENT REQUIREMENTS FOR HIGH TENSION CABLE GUARDRAIL (HTCG). HTCG BARRIER SYSTEMS CONSIST OF (A GENERAL HTCG SEGMENT BETWEEN BEGIN/END LENGTH OF NEED AND END TERMINAL ASSEMBLIES) OUTSIDE THE LENGTH OF NEED. THE LINE POST SPACING, CABLE HEIGHTS, FOUNDATION DEPTHS AND OVERALL LENGTH WILL VARY BY MANUFACTURER. NO MORE THAN ONE TYPE OF PROPRIETARY HTCG WILL BE INSTALLED WITHIN THE PROJECT LIMITS.
2. HTCG HARDWARE, INCLUDING BUT NOT LIMITED TO REMOVABLE LINE POSTS, SOCKET SLEEVES, TURNBUCKLES, TERMINAL FITTINGS, TERMINAL ANCHORAGE DEVICES, CABLE-TO-LINE POST CONNECTORS, AND SPLICE FITTINGS MAY VARY BY MANUFACTURER. INSTALL ONLY HARDWARE APPROVED BY THE MANUFACTURER, AND CONFORMS TO "BUY AMERICA PROVISIONS". DO NOT USE DIFFERENT TYPES OF PROPRIETARY HARDWARE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
3. FOLLOW MANUFACTURER RECOMMENDATIONS FOR HTCG POST FOUNDATION. SITE SPECIFIC LINE POST FOUNDATION DESIGNS ARE REQUIRED FOR SOIL CONDITIONS NOT MEETING THE MINIMUM CRITERIA INCLUDED IN CONCRETE FOUNDATION SPECIFICATIONS. FROST INFLUENCE SHOULD BE THE EMBEDMENT DEPTH, MINIMUM OF 4'.
4. INSTALL HTCG WITHIN THE PERMITTED LATERAL OFFSETS SHOWN IN MEDIAN TYPICAL. WHEN POSSIBLE PROVIDE A MINIMUM LATERAL OFFSET TO ABOVE-GROUND HAZARDS OF 12'-0' IN THE DIRECTION SHOWN IN THE PLANS.
5. FOLLOW MANUFACTURER RECOMMENDATIONS FOR SYSTEM SPECIFIC CABLE HEIGHTS AND AS SHOWN ON FHWA FEDERAL AID ELIGIBILITY LETTER. THE MINIMUM VERTICAL SPACING BETWEEN CABLES IS 3" O.C.
6. HTCG END TERMINALS CONSIST OF CONCRETE FOUNDATIONS FOR CABLES AND MAY VARY IN LENGTH BY MANUFACTURER RECOMMENDATIONS AND AS APPROVED BY FHWA FEDERAL AID ELIGIBILITY LETTER. THE END TERMINAL FOUNDATION LOCATION(S) MAY VARY FROM THAT SHOWN IN THE PLANS. FOLLOW MANUFACTURER RECOMMENDATIONS FOR PROJECT SPECIFIC END TERMINAL ASSEMBLY GEOMETRY. INSTALL END TERMINAL ASSEMBLIES OUTSIDE THE LIMITS OF THE LENGTH OF NEED. SEE HTCG END TERMINAL DETAILS FOR BEGIN/END LENGTH OF NEED LOCATIONS, AND MOW STRIP LIMITS.
7. INSTALL SINGLE OR MULTIPLE FOUNDATION END TERMINALS PER MANUFACTURER RECOMMENDATIONS. THE END TERMINALS SHALL MEET MASH STANDARDS AND PROVIDED FHWA FEDERAL AID ELIGIBILITY LETTER.
8. INSTALL REINFORCED CONCRETE SLAB PER SPECIFICATION 501 AND MANUFACTURER RECOMMENDATIONS, AS SHOWN ON HTCG END TERMINAL DETAILS SHEET.



GENERAL HTCG -
ELEVATION VIEW



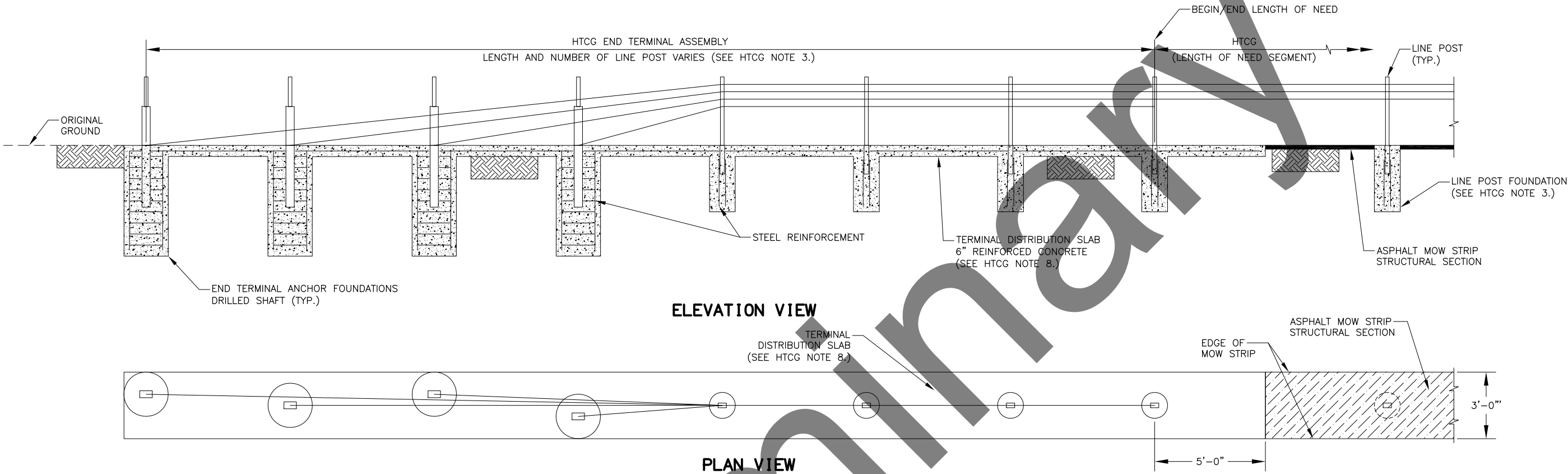
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

HTCG DETAILS
1 OF 2

FILE C:\USERS\JPARADA\DOCUMENTS\HSIP_GLENN_MB_MP30-34 - 00294\CIV3D16\PLANSET\CERT\00294_E0X_HTCB1_CERT.DWG
DATE/TIME 7/28/2020 11:18 AM
E02
LAYOUT
DESIGNED
CHECKED
DRAFTED

HTCG END TERMINAL - MULTIPLE ANCHOR FOUNDATIONS

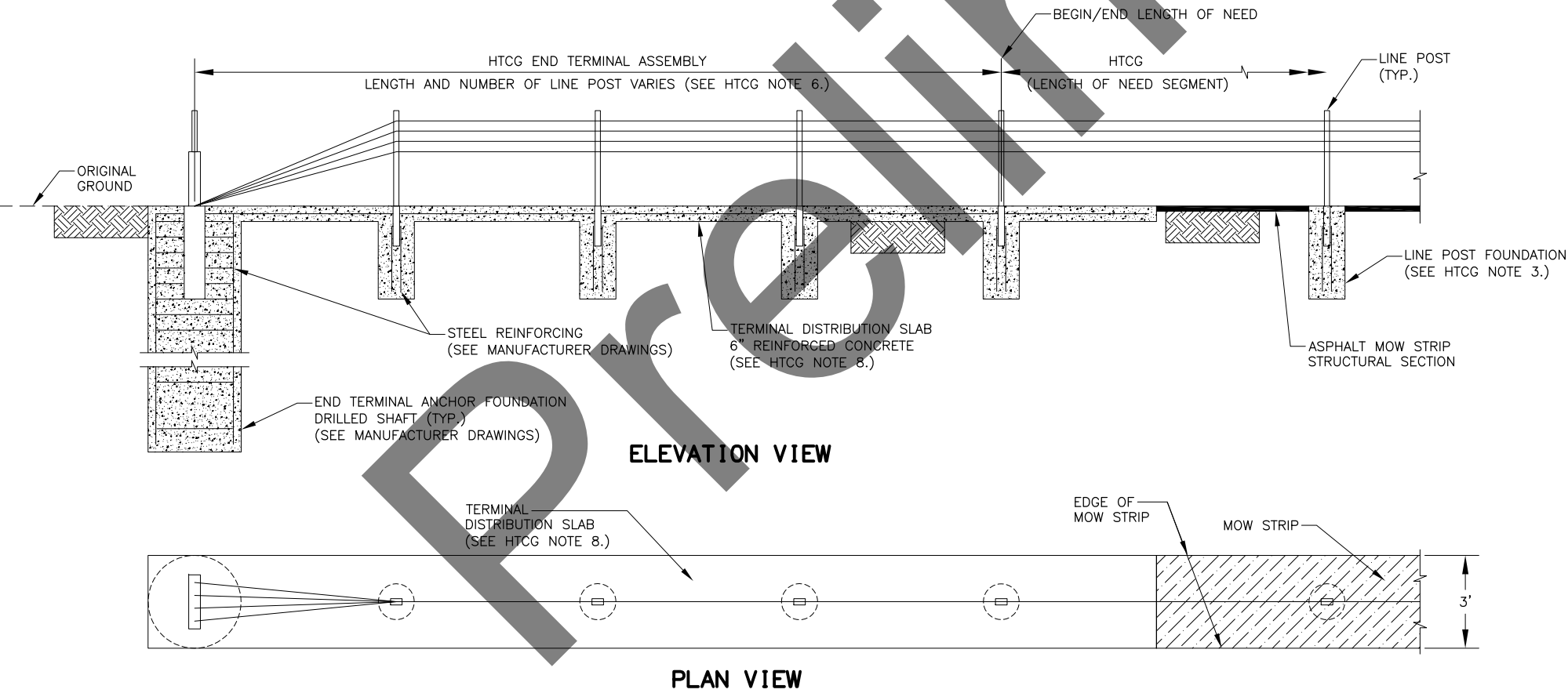
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	E02	E06



ELEVATION VIEW

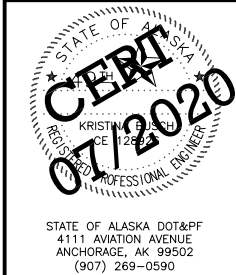
PLAN VIEW

HTCG END TERMINAL - SINGLE ANCHOR FOUNDATION



ELEVATION VIEW

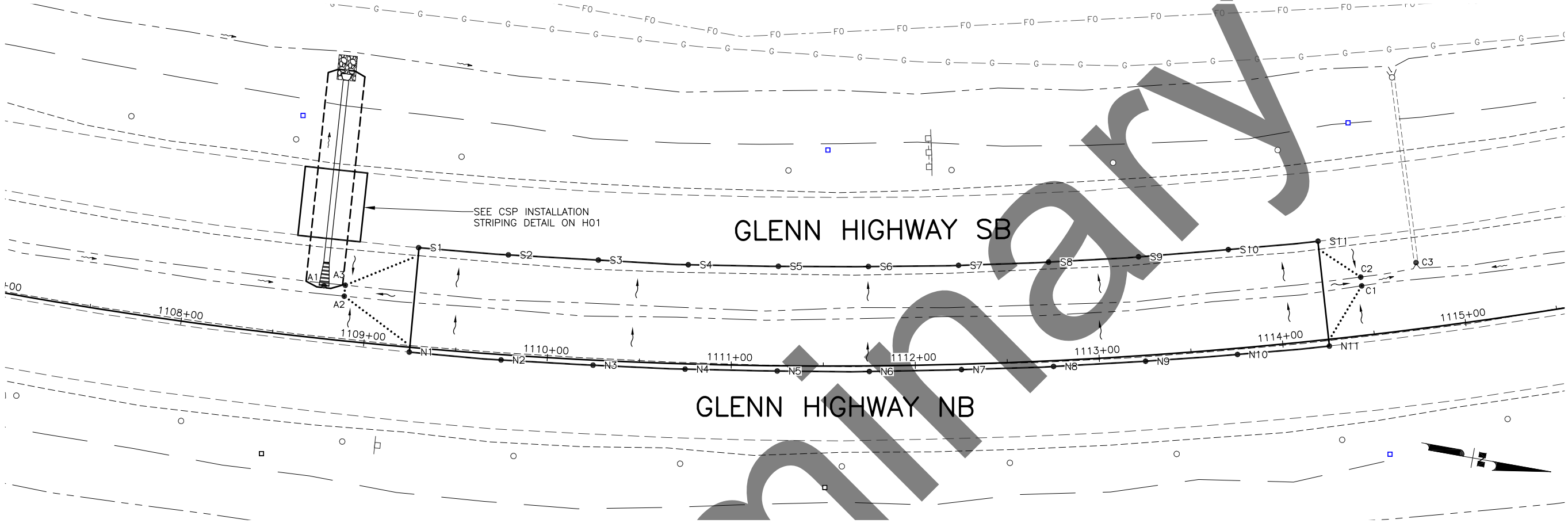
PLAN VIEW



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34
HTCG DETAILS
2 OF 2

FILE C:\USERS\JP\PARADISE\DOCUMENTS\HSIP\GLENN\MB\MP30-34 - 00294\CIV3D\16\PLANSET\CERT\00294_E03_XOVER_CERT.DWG DATE/TIME 7/27/2020 2:43 PM LAYOUT E03 DESIGNED JP CHECKED -- DRAFTED JP

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16053/CFHWY00294	2020	E03	E06



NORTHBOUND EDGE OF PAVEMENT GRADING POINTS			
POINT	STATION	OFFSET (FT)	ELEV. (FT)
N1	1109+25.00	2.60 RT	33.74
N2	1109+75.00	2.90 RT	33.64
N3	1110+25.00	2.73 RT	33.43
N4	1110+75.00	2.85 RT	33.19
N5	1111+25.00	2.83 RT	32.99
N6	1111+75.00	3.02 RT	32.91
N7	1112+25.00	2.92 RT	32.74
N8	1112+75.00	3.11 RT	32.56
N9	1113+25.00	3.16 RT	32.43
N10	1113+75.00	3.37 RT	32.36
N11	1114+25.06	3.66 RT	32.32

MEDIAN DITCH/CROSSOVER GRADING POINTS			
POINT	STATION	OFFSET (FT)	ELEV. (FT)
A1	1108+75.00	30.12 LT	29.47
A2	1108+86.02	24.10 LT	29.55
A3	1108+86.69	30.14 LT	29.38
B1	1109+25.00	25.22 LT	32.16
B2	1109+75.00	25.22 LT	31.91
B3	1110+25.00	25.22 LT	31.87
B4	1110+75.00	25.12 LT	31.70
B5	1111+25.00	25.22 LT	31.49
B6	1111+75.00	25.21 LT	31.23
B7	1112+25.00	25.21 LT	31.07
B8	1112+75.00	25.21 LT	30.91
B9	1113+25.00	25.21 LT	30.63
B10	1113+75.00	25.21 LT	30.53
B11	1114+24.99	25.21 LT	30.43
C1	1114+46.21	26.88 LT	27.219
C2	1114+46.24	31.66 LT	27.290
C3	1114+77.47	35.87 LT	26.612

SOUTHBOUND EDGE OF PAVEMENT GRADING POINTS			
POINT	STATION	OFFSET (FT)	ELEV. (FT)
S1	1109+25	54.32 LT	31.35
S2	1109+75	54.29 LT	31.35
S3	1110+25	54.43 LT	31.26
S4	1110+75	53.86 LT	31.06
S5	1111+25	54.03 LT	30.86
S6	1111+75	53.97 LT	30.65
S7	1112+25	53.71 LT	30.49
S8	1112+75	53.63 LT	30.32
S9	1113+25	53.68 LT	30.09
S10	1113+75	53.85 LT	30.00
S11	1114+25	53.63 LT	30.09

NOTES:

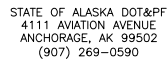
- GRADE 6:1 PERPENDICULAR FROM BOTH EDGES OF MEDIAN CROSSOVER. SEE MEDIAN CROSSOVER SIDE SLOPE DETAIL.
- TOPSOIL AND SEED SIDE SLOPES AND DISTURBED DITCH AREA
- GRADE DITCH BOTTOM TO DRAIN TO CULVERTS SHOWN.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**

MEDIAN CROSSOVER
GRADING DETAILS

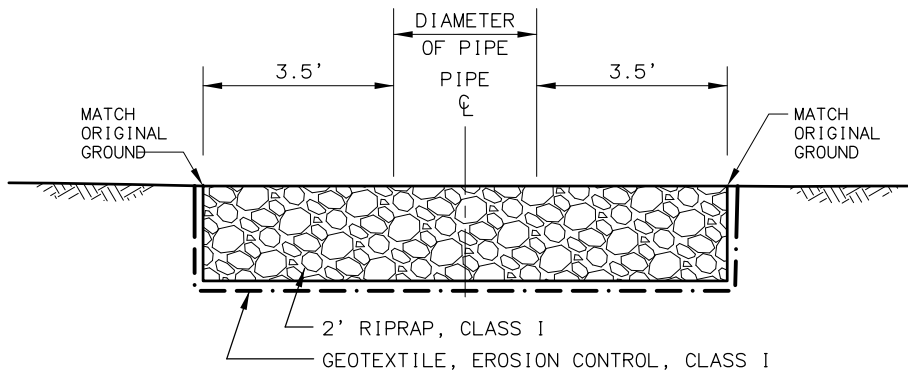
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0A16053/CFHWY00294	2020	E04	E06



PIPE INSTALLATION

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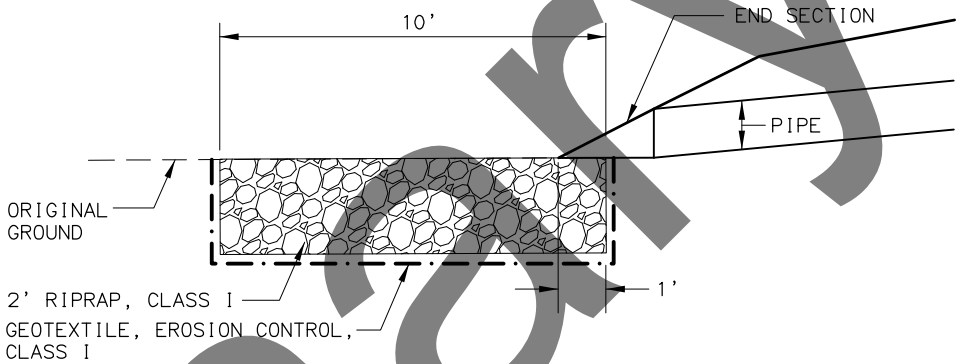
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	OA16053/CFHWY00294	2020	E05	E06



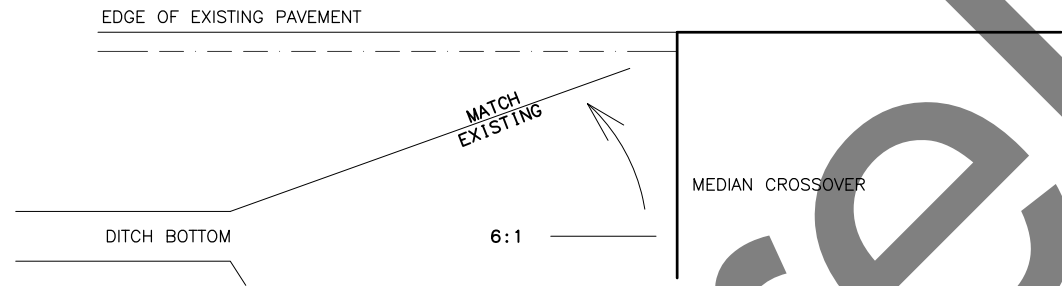
SECTION C-C

ENERGY DISSIPATOR DETAIL

1. SEE STANDARD PLAN D-06.10 FOR ADDITIONAL GENERAL NOTES AND DIMENSIONS.
2. RIPRAP SLOPE SHALL BE 2:1 OR FLATTER.
3. INSTALL AN ENERGY DISSIPATOR AT THE OUTLET IN CONJUNCTION WITH CULVERT INSTALLATION WHERE SHOWN ON PLANS. ENERGY DISSIPATORS ARE PERMANENT FEATURES AND SHALL BE LEFT IN PLACE.
4. THE MODIFIED END SECTION, RIPRAP, AND GEOTEXTILE SHALL BE SUBSIDIARY TO CSP INSTALLATION.



ENERGY DISSIPATOR DETAIL (CON'T)



MEDIAN CROSSOVER
SIDE SLOPE DETAIL



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34
ENERGY DISSIPATOR & SIDE
SLOPE DETAILS

FILE C:\USERS\JPARADA\DOCUMENTS\HSP- GLENN MB MP30-34 - 00294\CIV3D16\PLANS\SET CERT\00294_E0X_HTCB1_CERT.DWG

DATE/TIME 7/27/2020 1:41 PM

DESIGNED E06 LAYOUT E06

DRAFTED

CHECKED

DESIGNED

E06

LAYOUT

E06

E06

E06

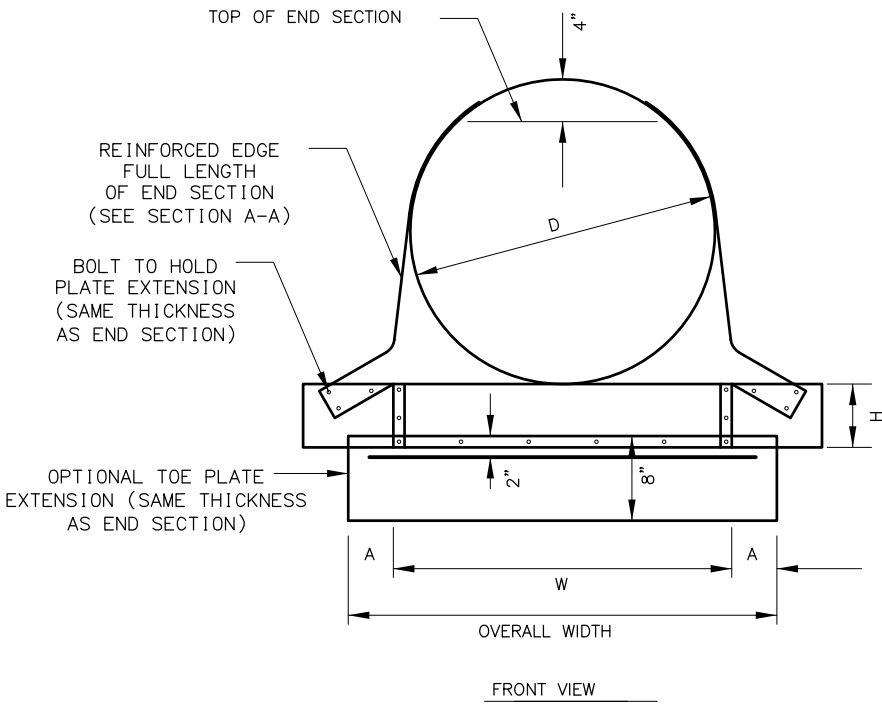
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E06

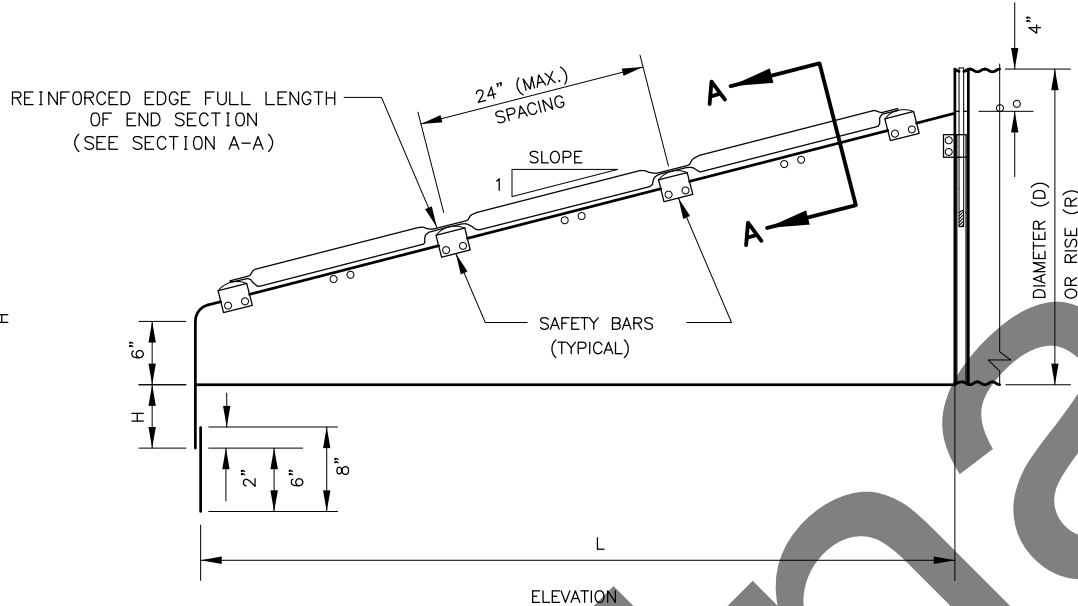
E06

E06

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	E06	E06



ROUND PIPE CULVERT



DRAINAGE END SECTION

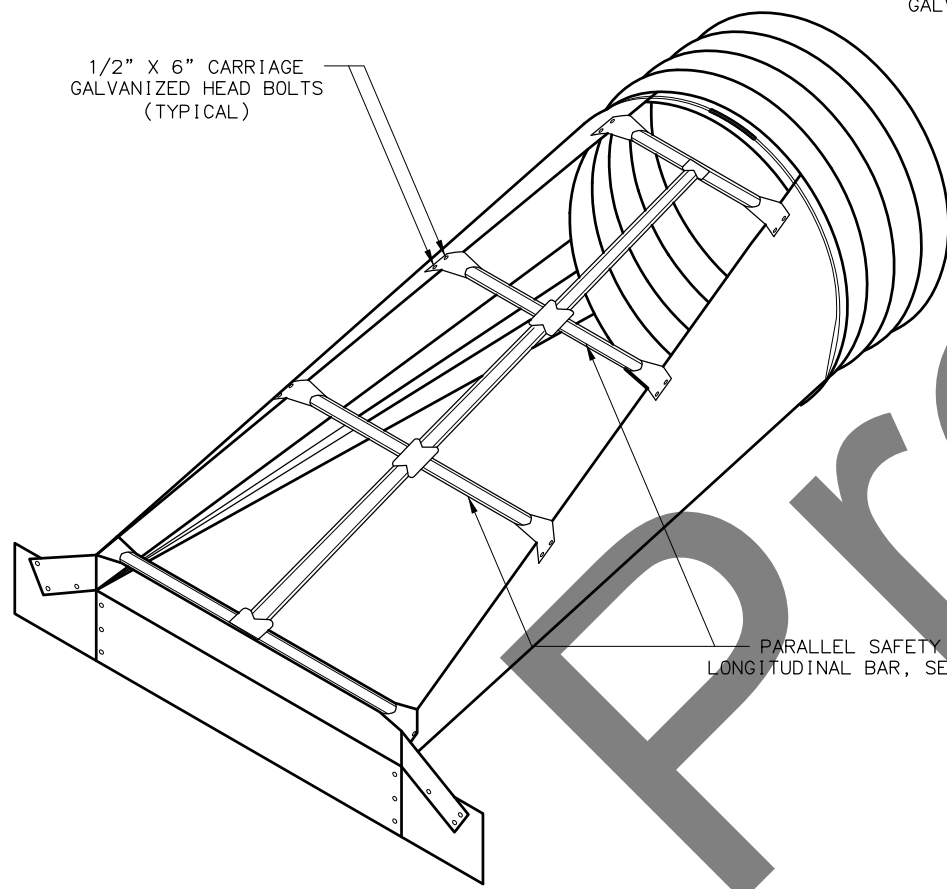
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END SECTION NOTES

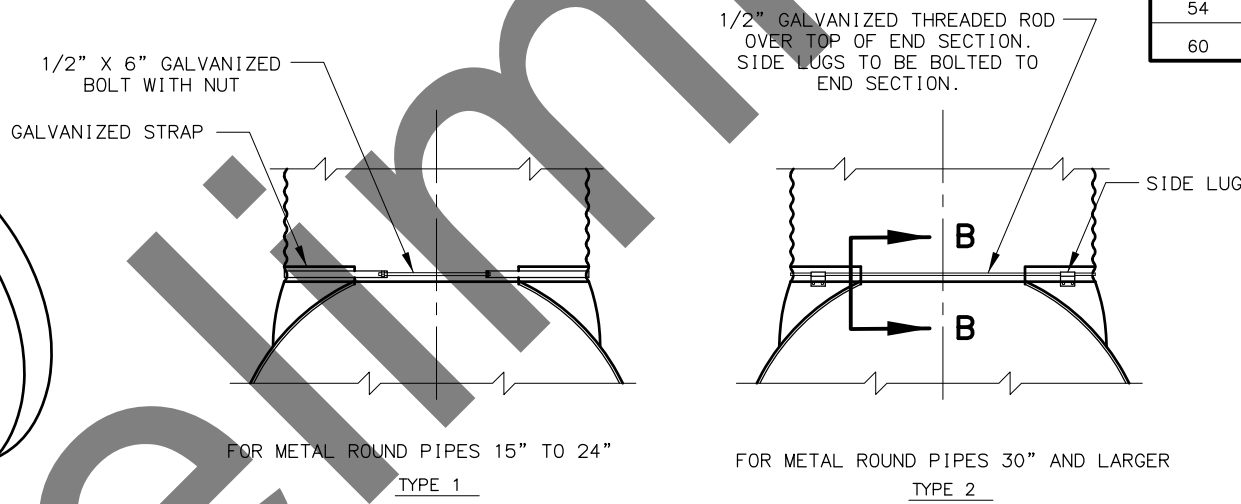
1. FABRICATE SAFETY AND BARS FROM STEEL PIPE CONFORMING TO ASTM A53 SCHEDULE 40 SPECIFICATIONS. GALVANIZE BARS HOT DIPPED AFTER FABRICATION.
2. A LONGITUDINAL BAR IS REQUIRED FOR CROSS DRAINAGE END SECTIONS WHEN THE SPAN IS GREATER THAN 30 INCHES. USE ADDITIONAL LONGITUDINAL BARS IF SPACING EXCEEDS 20 INCHES OR LARGER END SECTIONS. WELD LONGITUDINAL BAR TO SAFETY BARS.
3. ALL INCIDENTALS NECESSARY TO COMPLETE ONE INSTALLATION AS DETAILED IS SUBSIDIARY.

METAL END SECTIONS FOR ROUND PIPE

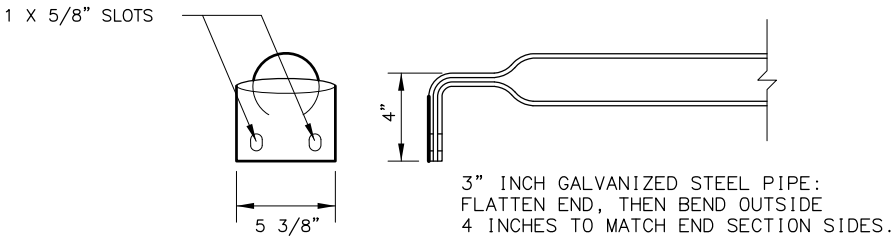
PIPE SIZE D INCHES	METAL THICK (MIN.) INCH/GAGE	DIMENSIONS IN INCHES					
		A	H	W	OVERALL WIDTH	L	
						SLOPE=4	SLOPE=6
18	0.064/16	8	6	24	40	32	47
24	0.064/16	8	6	30	46	55	83
30	0.109/12	12	9	36	60	79	118
36	0.109/12	12	9	42	66	102	154
42	0.109/12	16	12	48	80	126	189
48	0.109/12	16	12	54	86	150	224
54	0.109/12	16	12	60	92	173	260
60	0.109/12	16	12	66	98	197	295



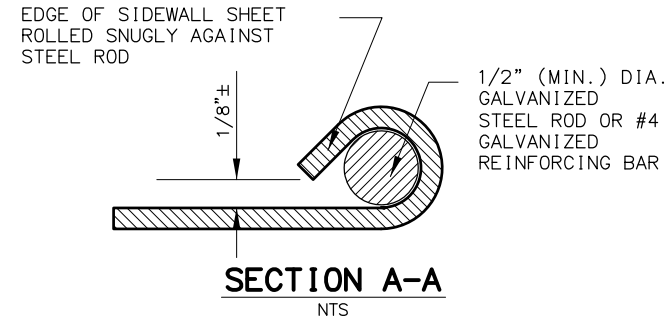
DRAINAGE END SECTION



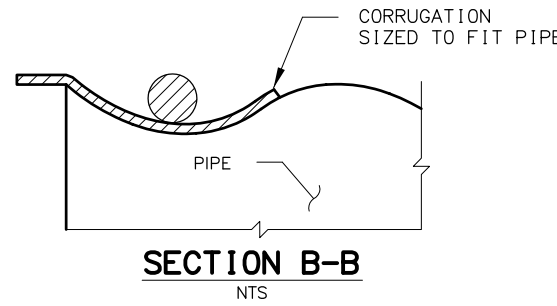
CONNECTOR DETAILS



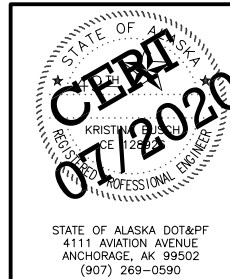
SAFETY BAR DETAILS



SECTION A-A



SECTION B-B



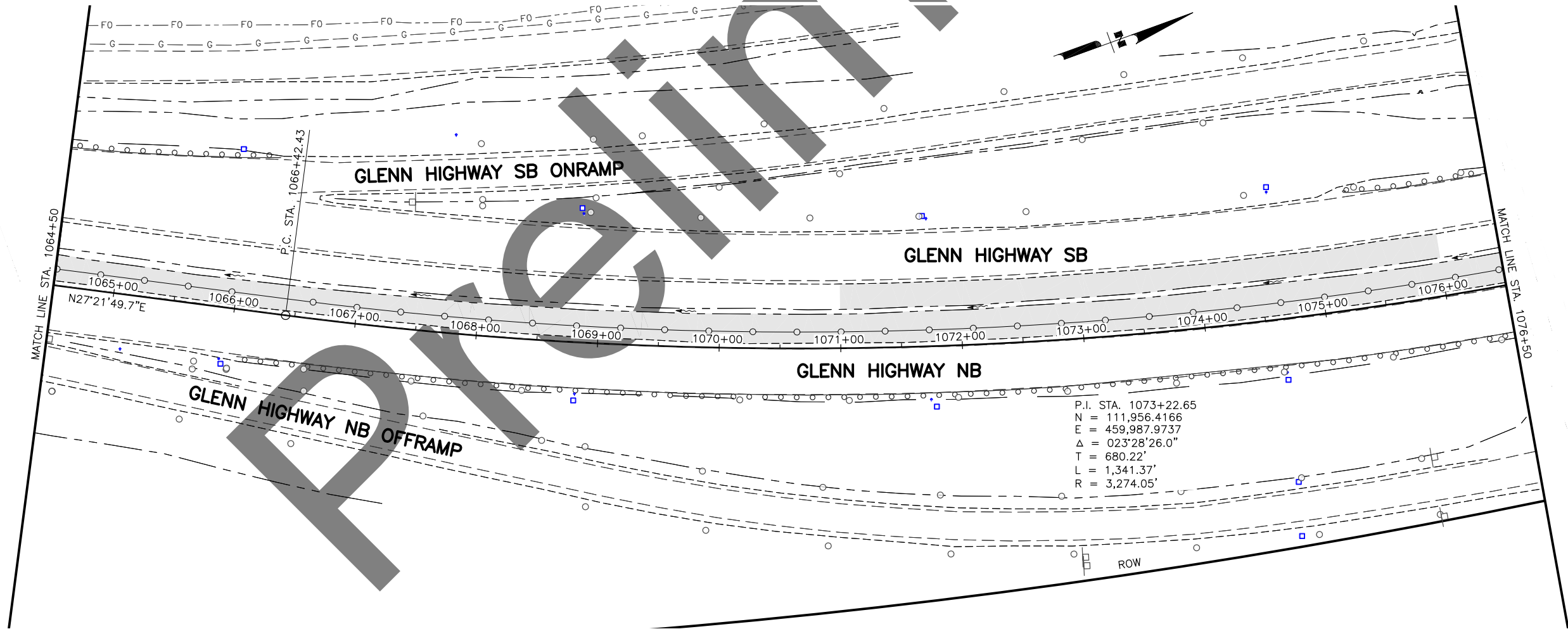
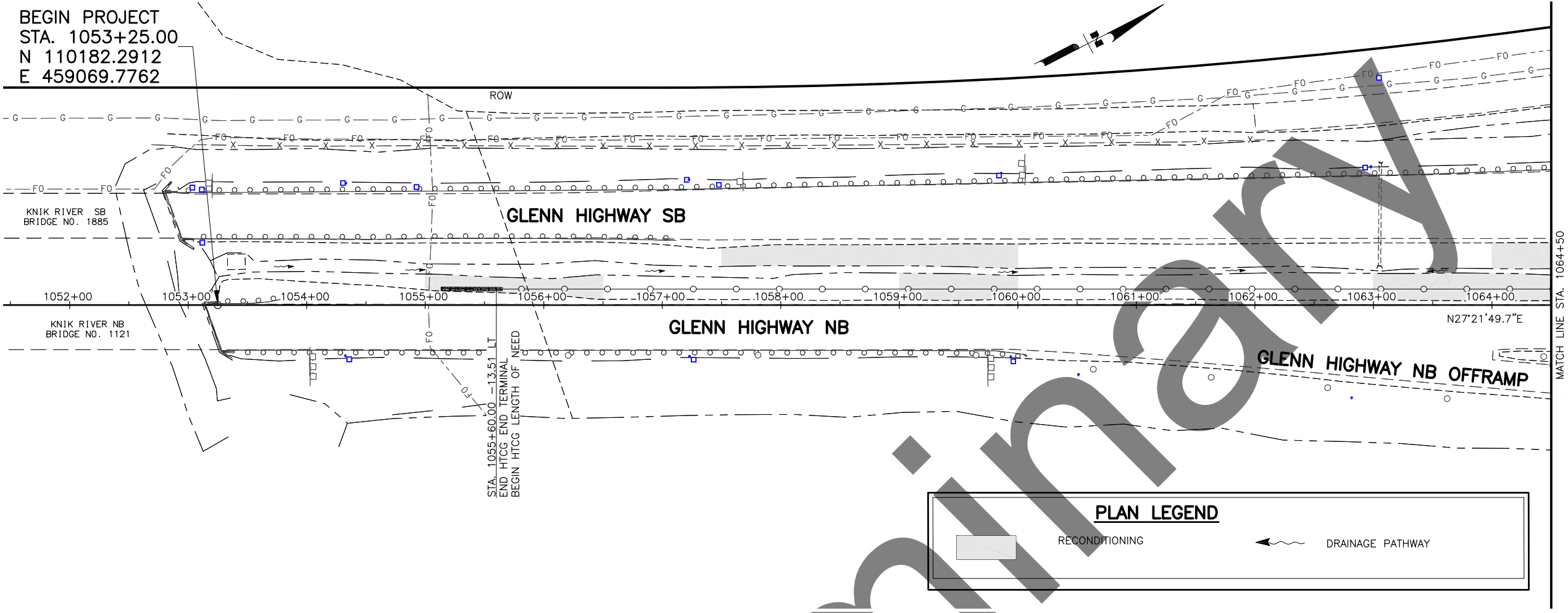
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

SAFETY BAR END
SECTION DETAILS

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

FILE C:\USERS\JP\PARADA\DOCUMENTS\HSP\GLENN MB MP30-34 - 00294 CIV3D16\PLANSET\CERT\00294_F_SHTS_PP_CERT-1.DWG DATE/TIME 7/29/2020 1:20 PM LAYOUT F01 DESIGNED JP CHECKED --- DRAFTED JP

BEGIN PROJECT
STA. 1053+25.00
N 110182.2912
E 459069.7762



SHEET NO.	TOTAL SHEETS
F01	F09
STATE	YEAR
ALASKA	2020
PROJECT DESIGNATION	
0A16053/ CFHWY00294	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	

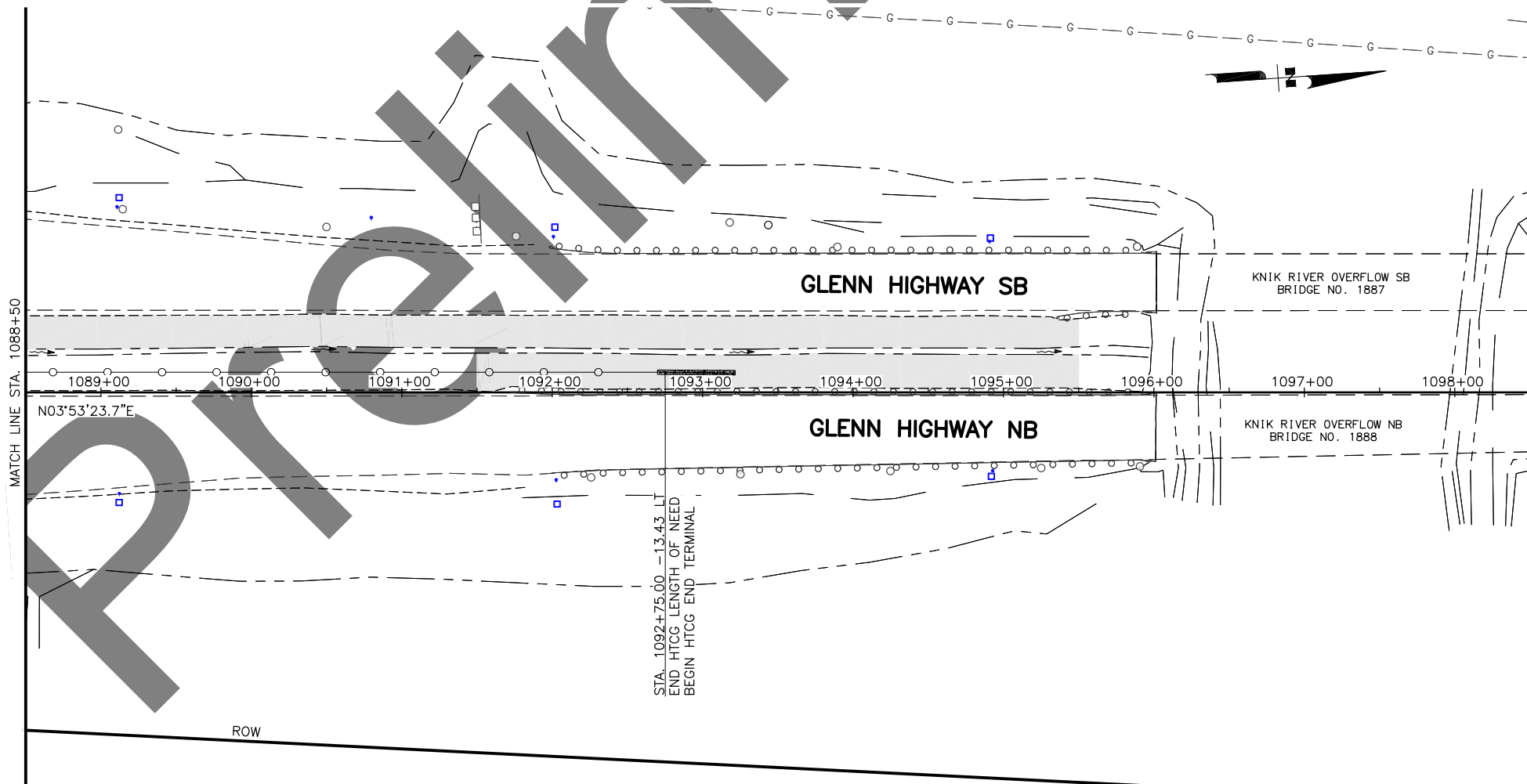
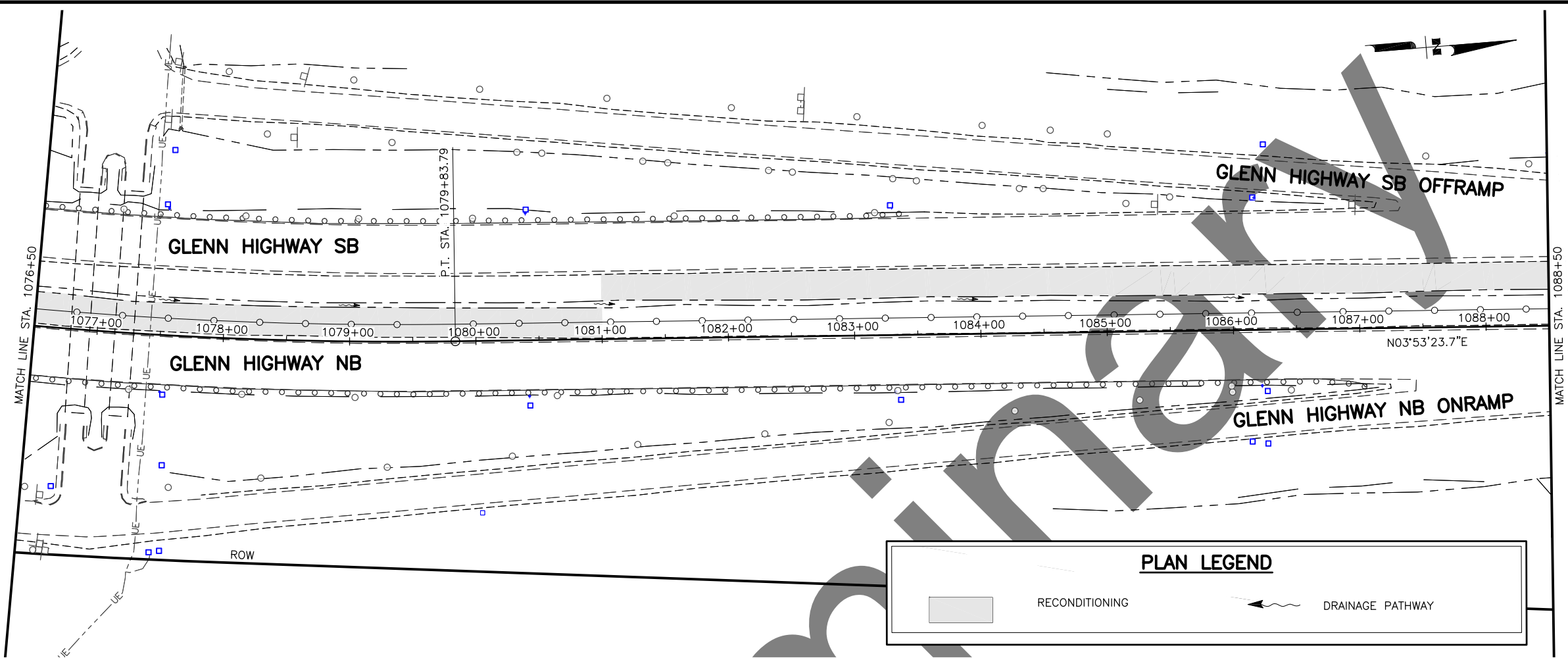
STATE OF ALASKA
CERT
07/2020
KRISTINA J. BROWN
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

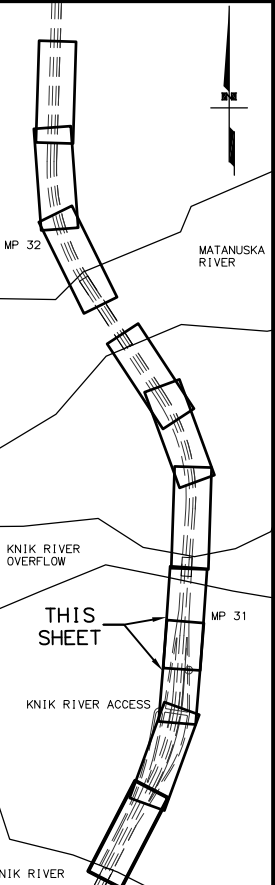
**GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**

B.O.P.
TO
1076+50



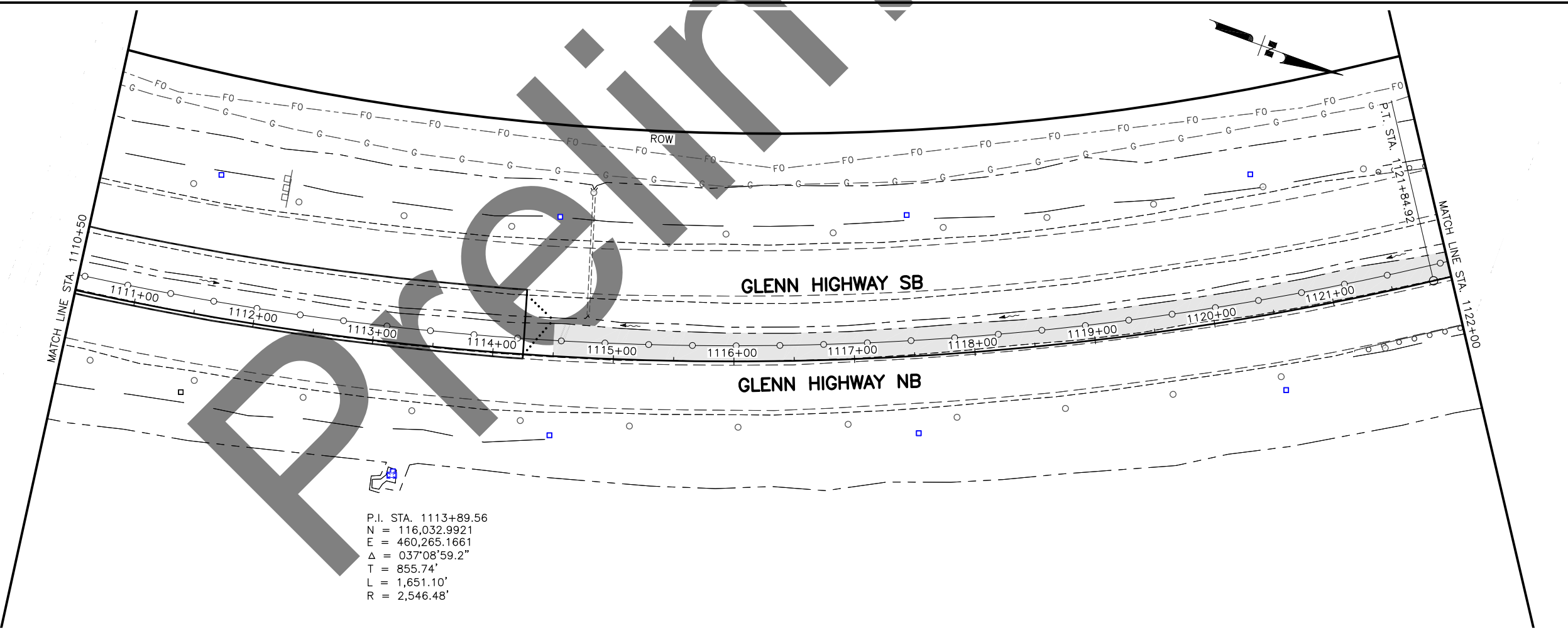
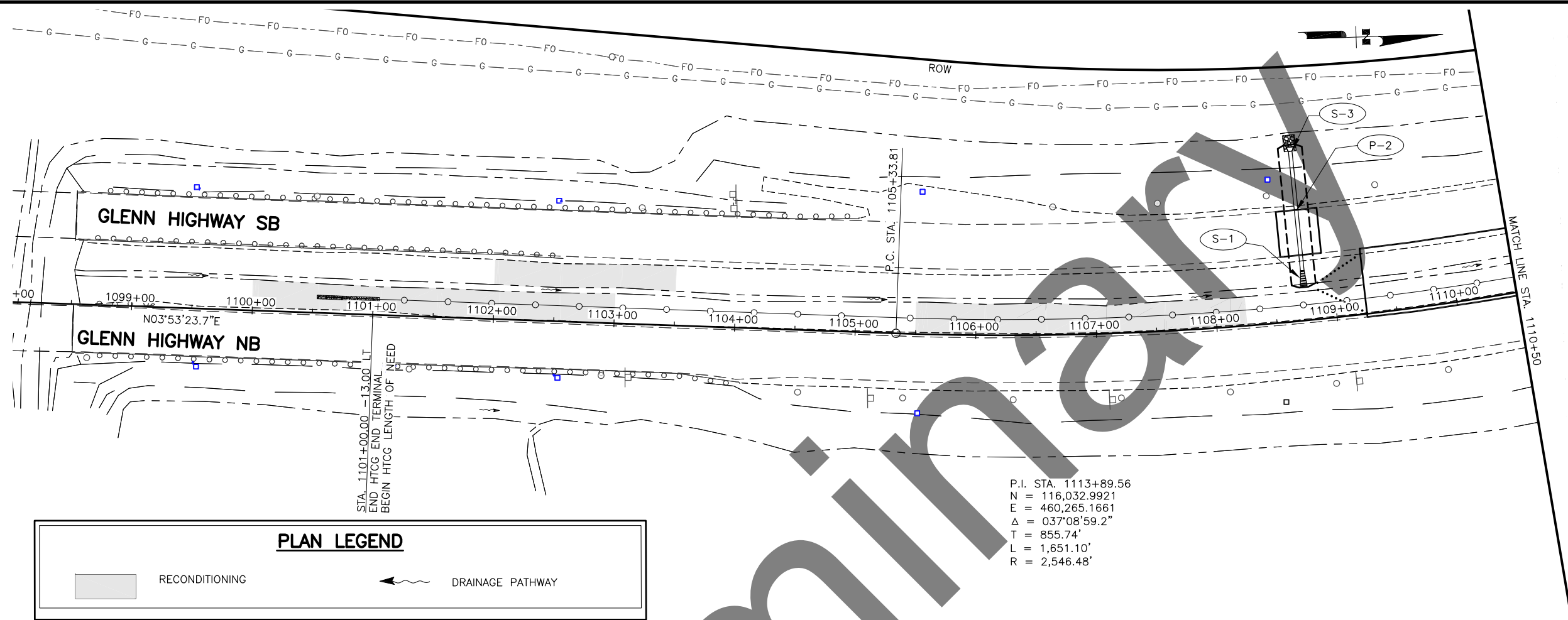
SHEET NO.	TOTAL SHEETS
F02	F09
STATE	YEAR
ALASKA	2020

PROJECT DESIGNATION	
OA16053/ CFHWY00294	
NO.	REVISION
DATE	
NO.	REVISION
DATE	
NO.	REVISION
DATE	



STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**
**STA. 1076+50
TO
KNIK RIVER BRIDGE**

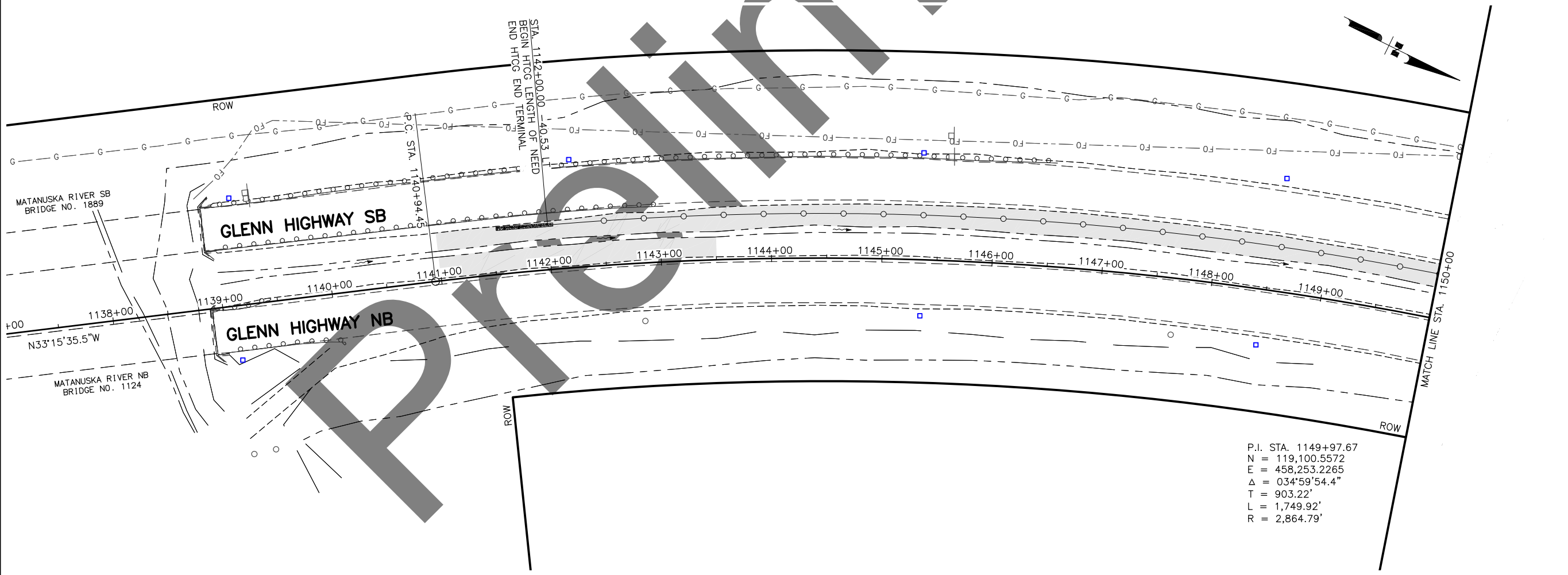
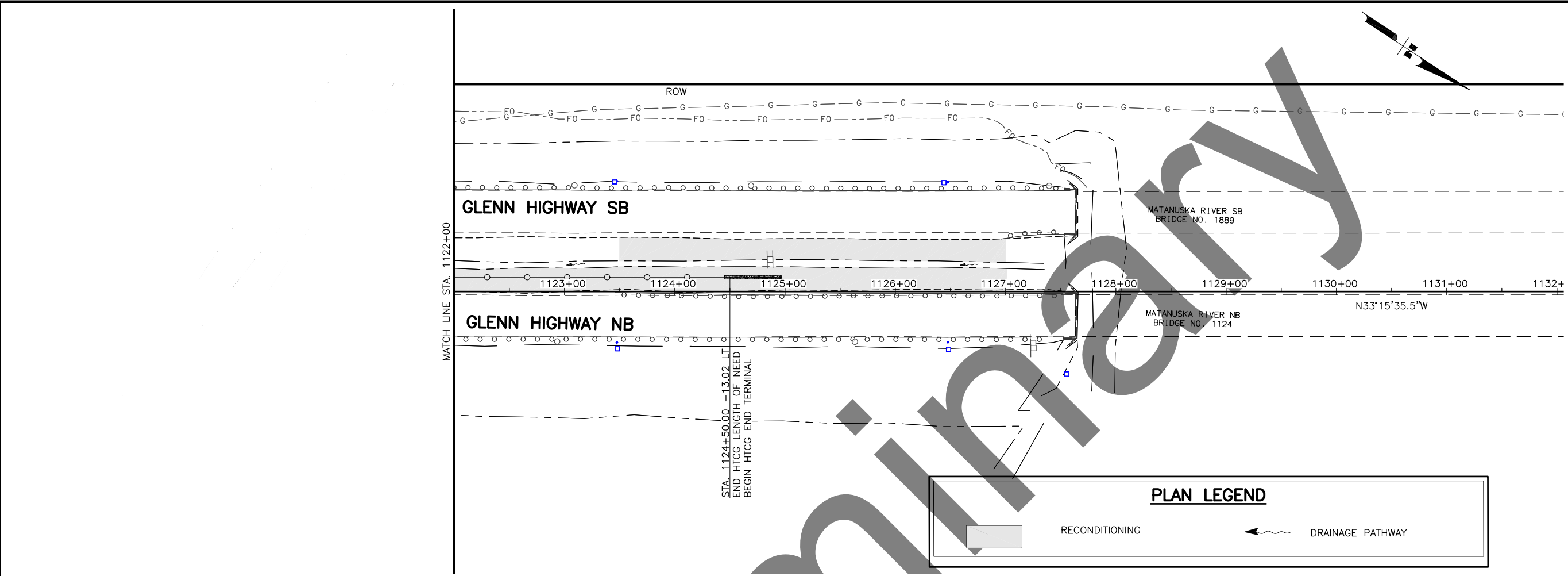


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STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
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NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34
KNIK RIVER BRIDGE
TO
STA. 1122+00

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590



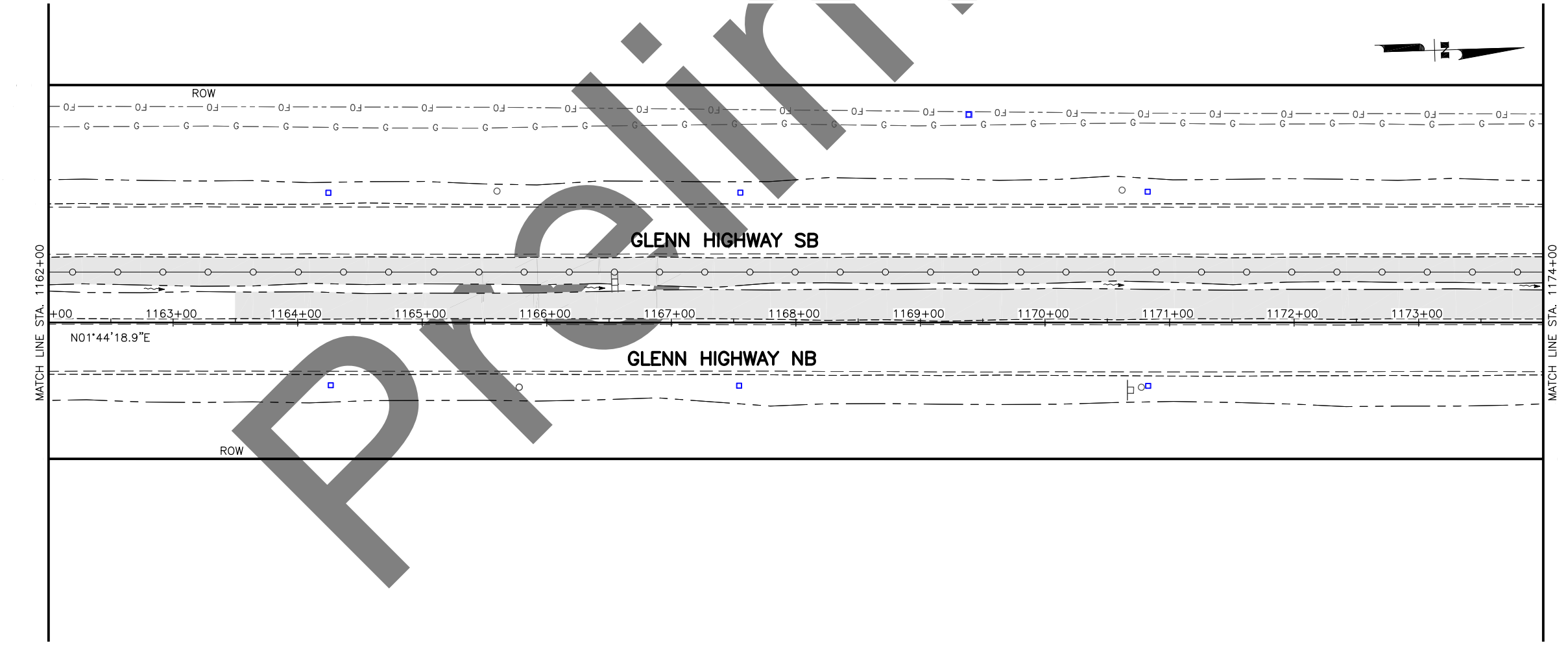
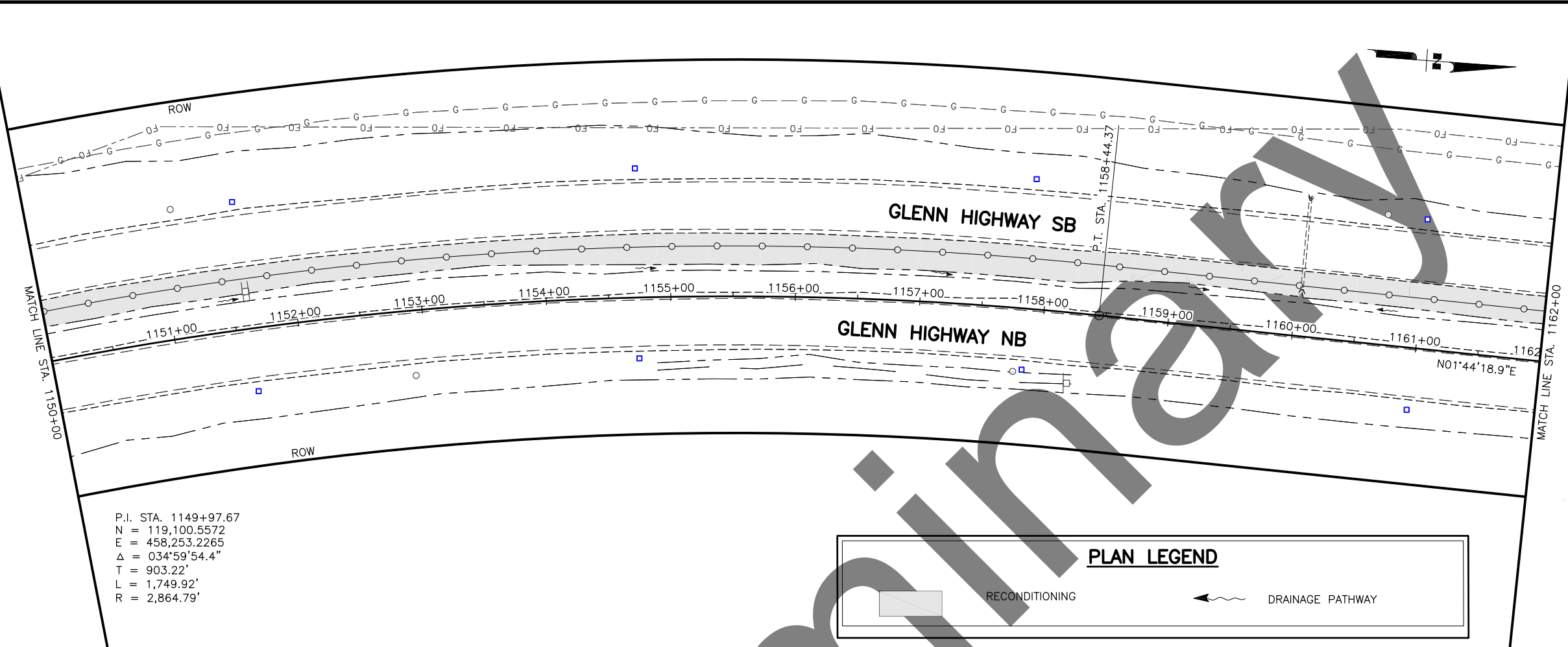
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E = 458,253.2265
Δ = 034°59'54.4"
T = 903.22'
L = 1,749.92'
R = 2,864.79'

SHEET NO.	F04	TOTAL SHEETS	F09
STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
OA16053/ CFHWY00294			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

THIS SHEET

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34
STA. 1122+00
TO
STA. 1150+00

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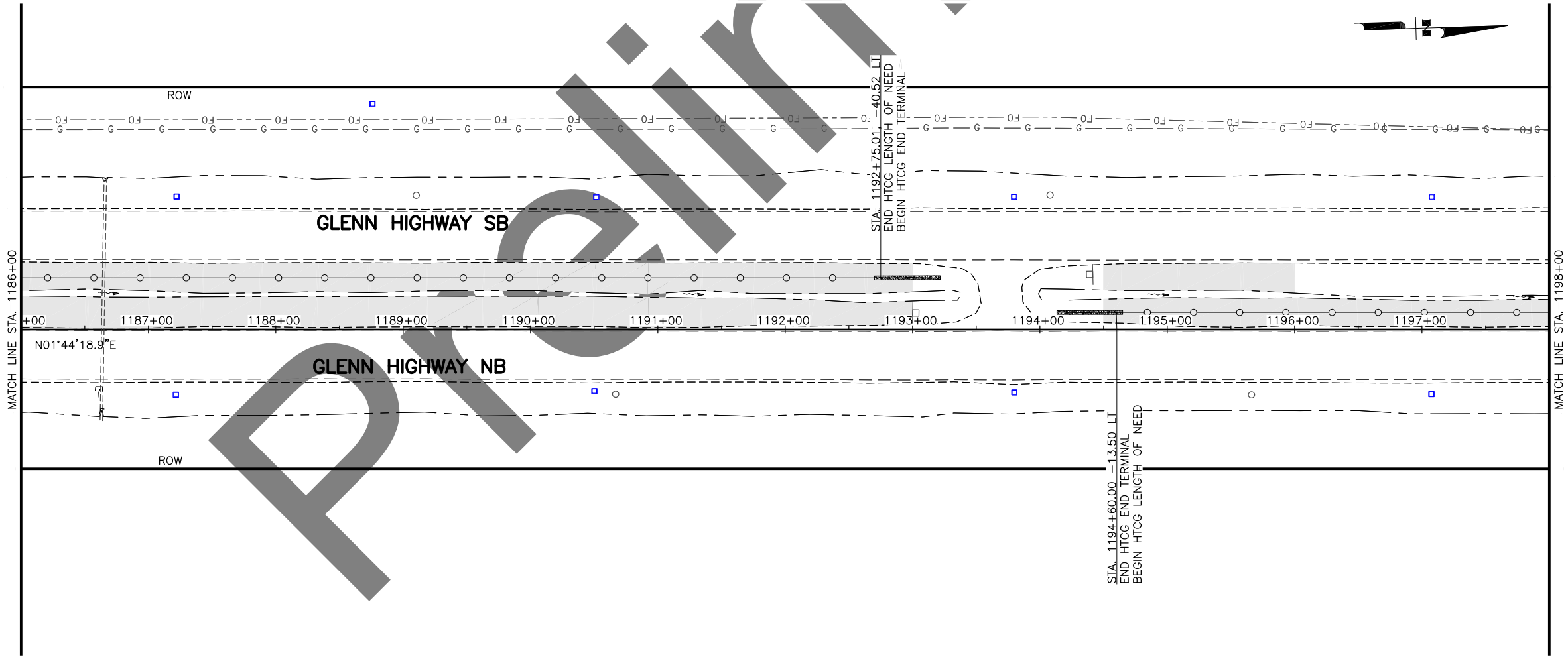
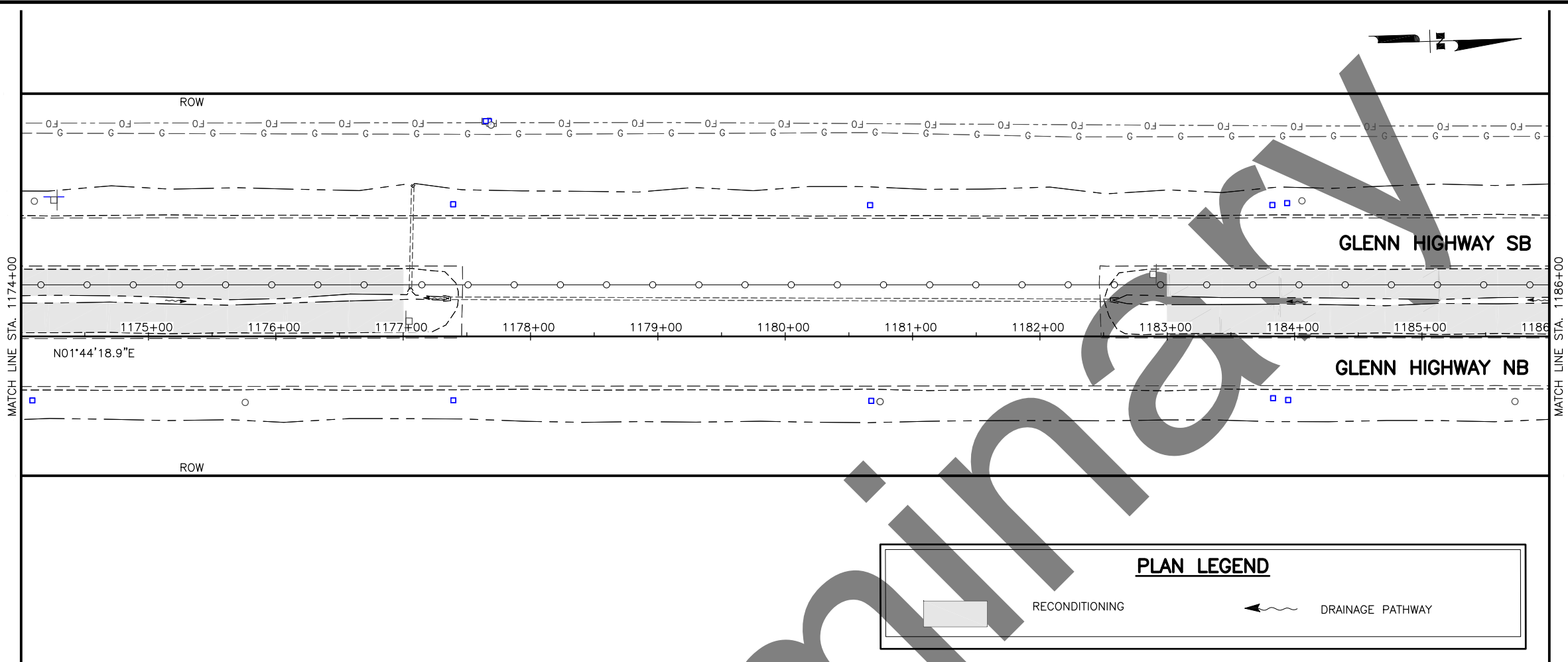


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STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
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NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

STATE OF ALASKA
CERT
07/2020
Krisina J. Jorgensen
1989
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34**
STA. 1150+00
TO
STA. 1174+00



SHEET NO.	F06	TOTAL SHEETS	F09
STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
OA16053/ CFHWY00294			
NO.	REVISION		
DATE			
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NO.	REVISION		
DATE			

GLENN/PARKS INTERCHANGE

MP 34

RABBIT SLOUGH

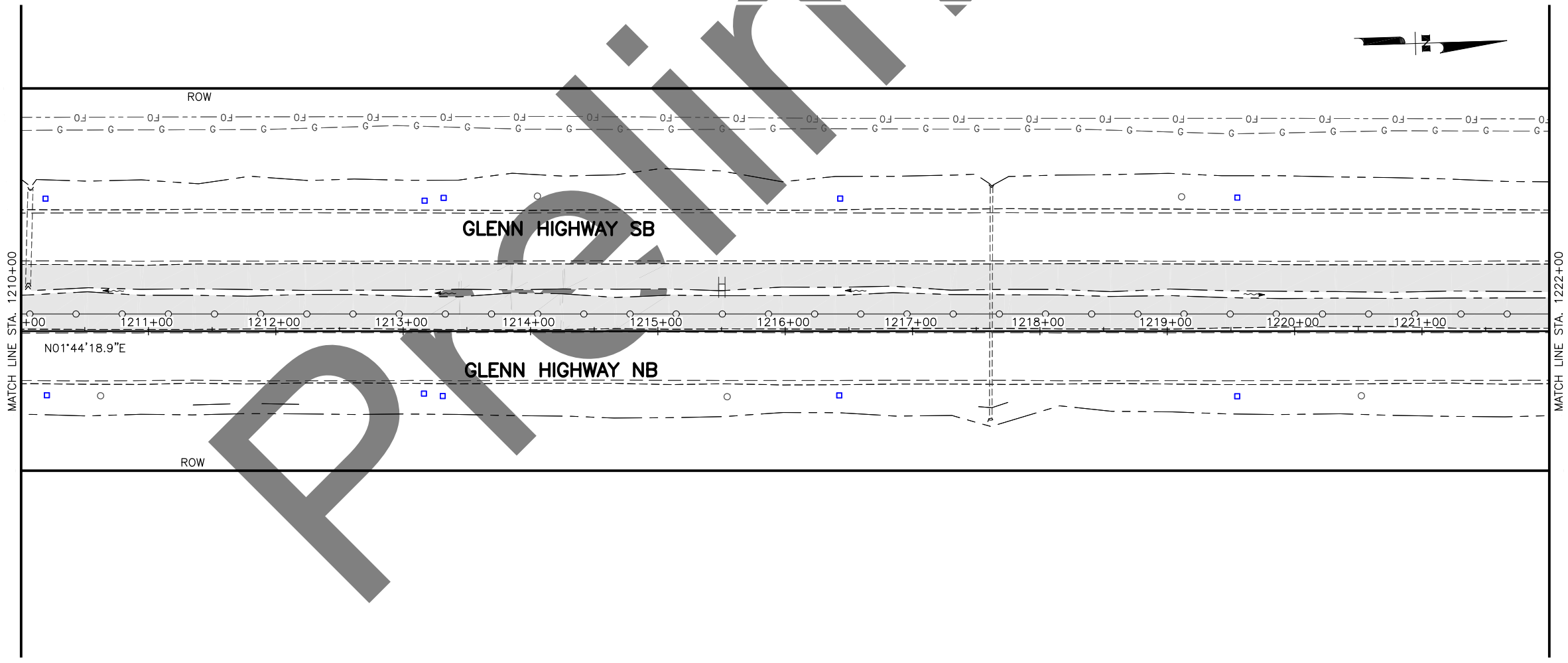
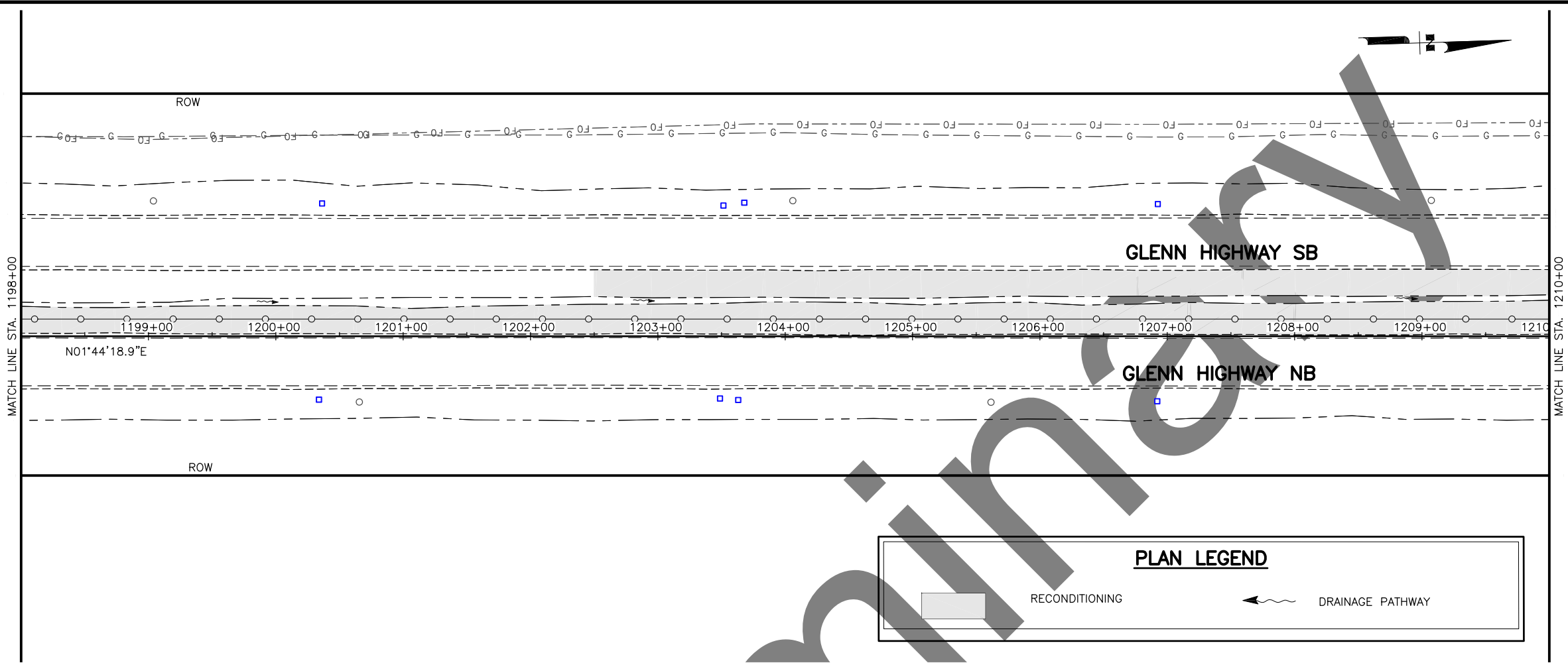
MP 33

THIS SHEET

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

STA. 1174+00
TO
STA. 1198+00



SHEET NO.	F07	TOTAL SHEETS	F09
STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
OA16053/ CFHWY00294			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

GLENN/PARKS INTERCHANGE

MP 34

RABBIT SLOUGH

THIS SHEET

MP 33

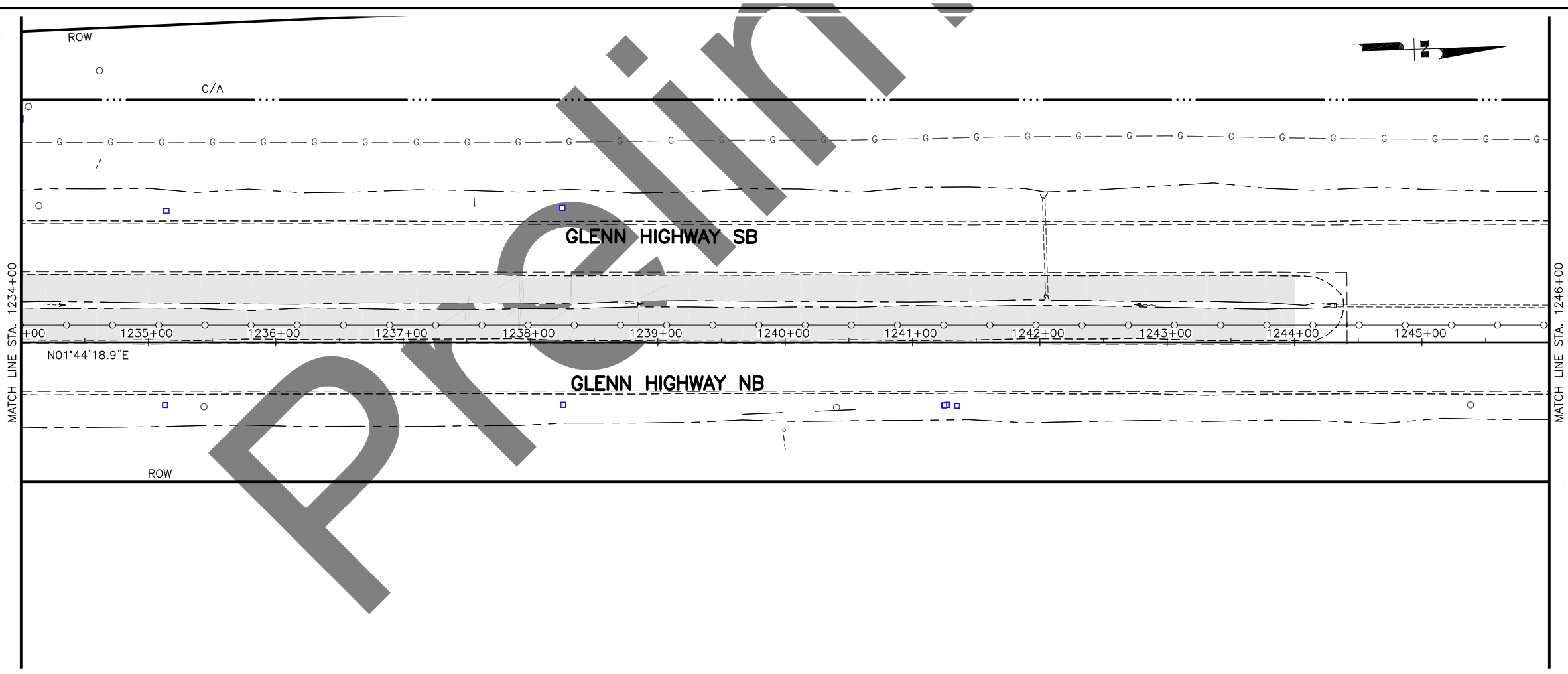
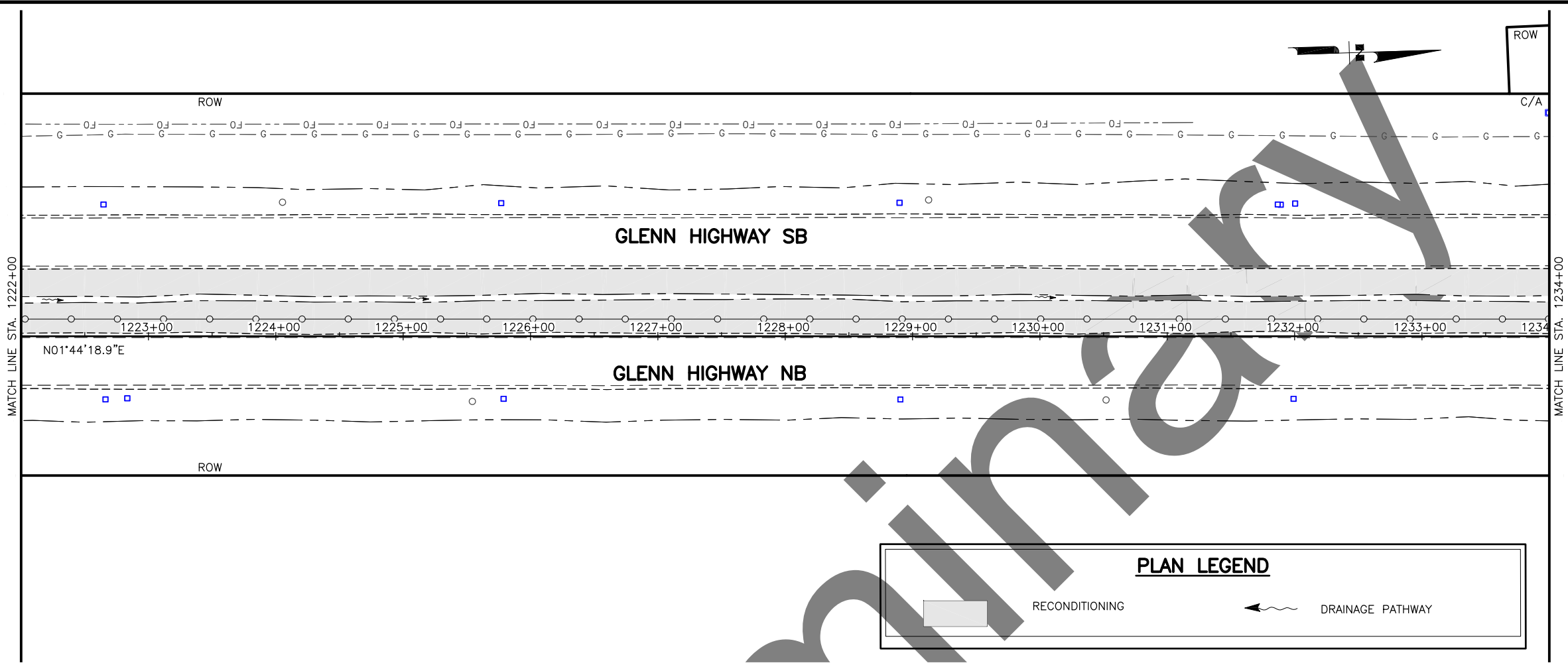
STATE OF ALASKA
CERT
07/2020
KRISTINA J. JENSEN
1989
PROFESSIONAL ENGINEER

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

STA. 1198+00
TO
STA. 1222+00



SHEET NO.	F08	TOTAL SHEETS	F09
STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
OA16053/ CFHWY00294			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

GLENN/PARKS INTERCHANGE

MP 34

RABBIT SLOUGH

THIS SHEET

MP 33

STATE OF ALASKA

CERT

07/2020

KRISTINA J. JENSEN

1989

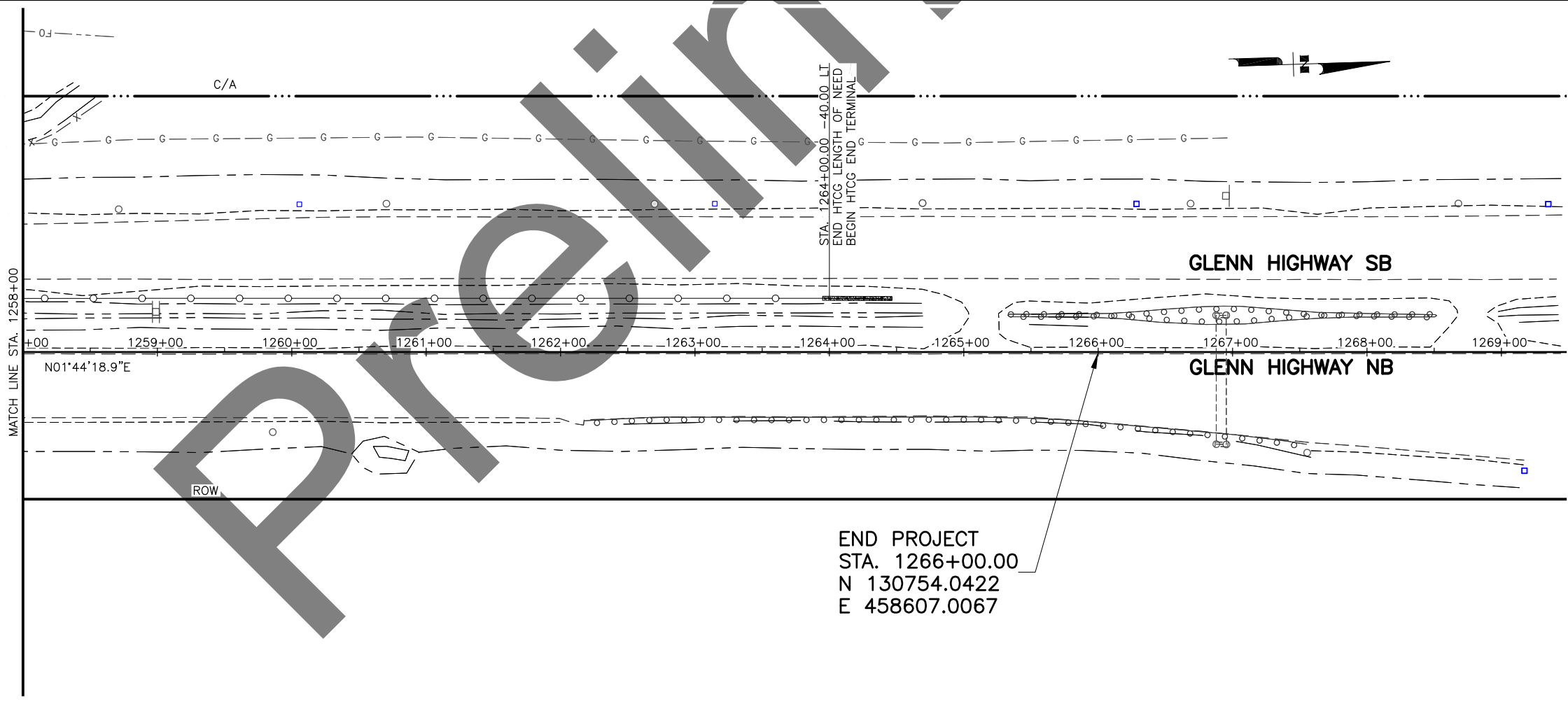
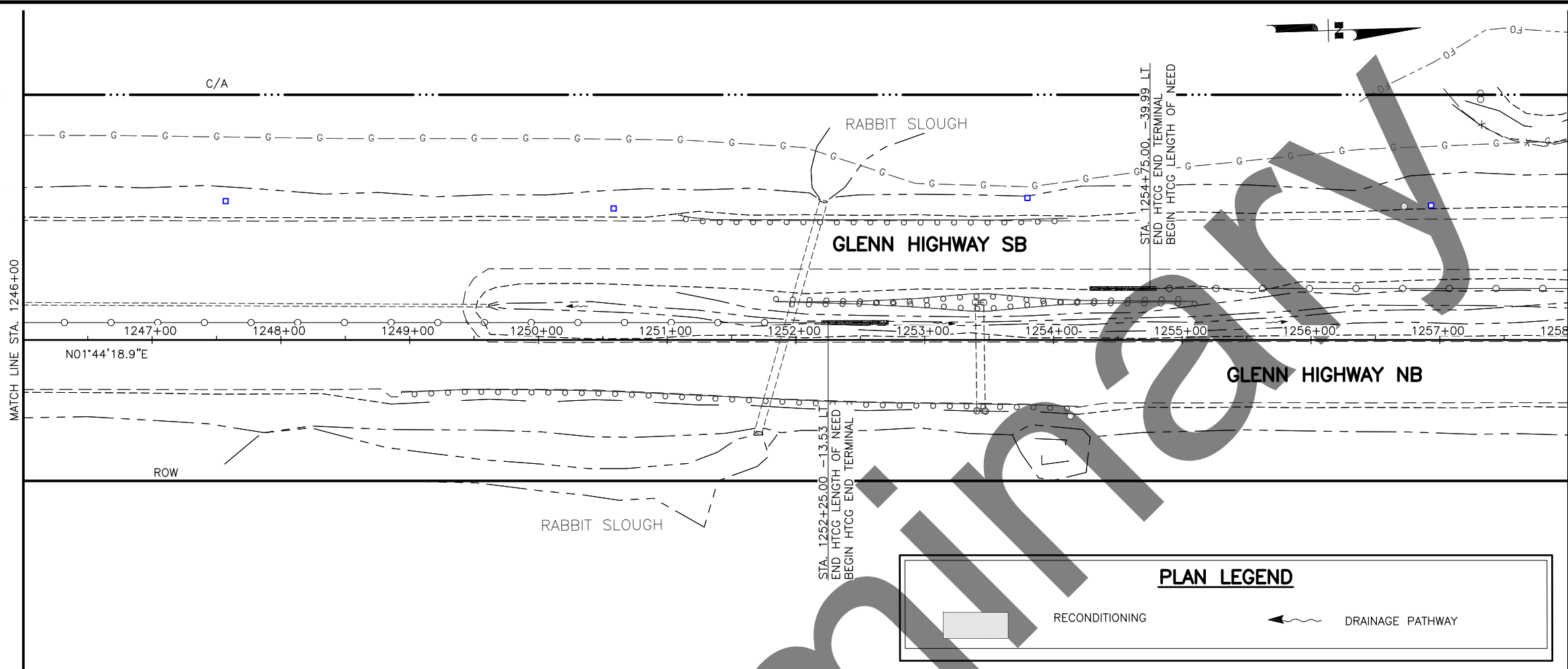
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA DOT&PF
4111 AVIATION AVENUE
ANCHORAGE, AK 99502
(907) 269-0590

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

STA. 1222+00
TO
STA. 1246+00



SHEET NO.	F09	TOTAL SHEETS	F09
STATE	ALASKA	YEAR	2020
PROJECT DESIGNATION			
OA16053/ CFHWY00294			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			
NO.	REVISION		
DATE			

GLENN/PARKS INTERCHANGE

MP 34

THIS SHEET

RABBIT SLOUGH

MP 33

STATE OF ALASKA

CERT

07/2020

KRISTINA J. JENSEN

1989

PROFESSIONAL ENGINEER

STATE OF ALASKA DOT&PF

4111 AVIATION AVENUE

ANCHORAGE, AK 99502

(907) 269-0590

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION

AND PUBLIC FACILITIES

GLENN HIGHWAY

MEDIAN BARRIER,

MP 30 TO 34

STA. 1246+00

TO

E.O.P.

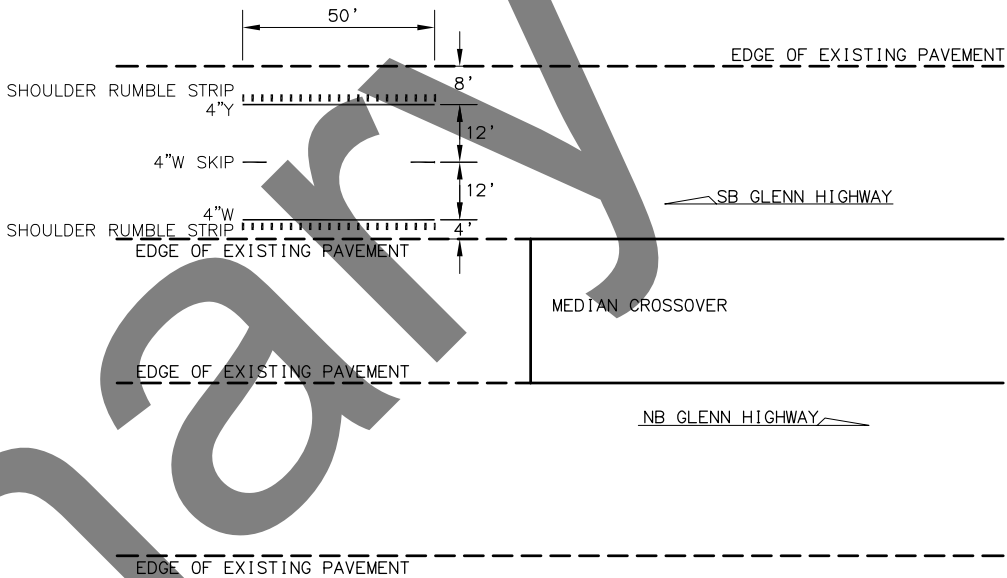
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SIGNING & STRIPING NOTES:

- 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 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.
- REPLACE SHOULDER RUMBLE STRIPS DAMAGED DURING CSP 36 INCH INSTALLATION PER ALASKA STANDARD PLAN T-25.10.
- INSTALL DELINEATORS PER STANDARD DETAIL CR-T-04.10.
- INSTALL DELINEATION REFLECTORS ON HTCG POST ACCORDING TO THE FOLLOWING OR AS DIRECTED BY THE ENGINEER:
 - ON HTCG END TERMINAL INSTALL YELLOW DELINEATION REFLECTORS ON THE FIRST 5 HTCG POST.
 - THEREAFTER INSTALL WHITE DELINEATION REFLECTORS ON HTCG POST AND APPROXIMATELY EVERY 5TH HTCG POST INSTALL YELLOW DELINEATION RELECTOR ON POST OR UP TO A MAXIMUM SPACING OF 100'.
 - ON CLOSED MEDIAN CROSSOVER INSTALL YELLOW DELINEATION REFLECTORS ON ALL HTCG POST OVER CROSSOVER PAVEMENT.

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

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	H01	H03



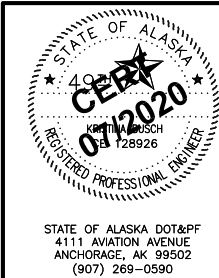
CSP INSTALLATION STRIPING DETAIL

CALL BEFORE YOU DIG!

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

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

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



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

TRAFFIC LEGEND AND NOTES

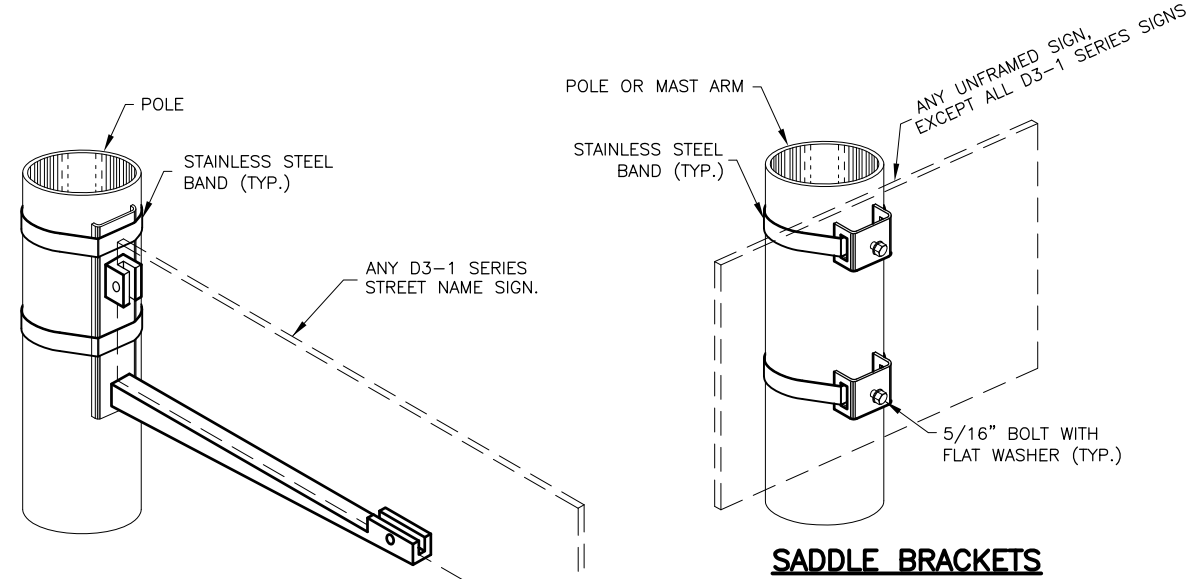
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DESIGNED
CHECKED
CLB
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MF

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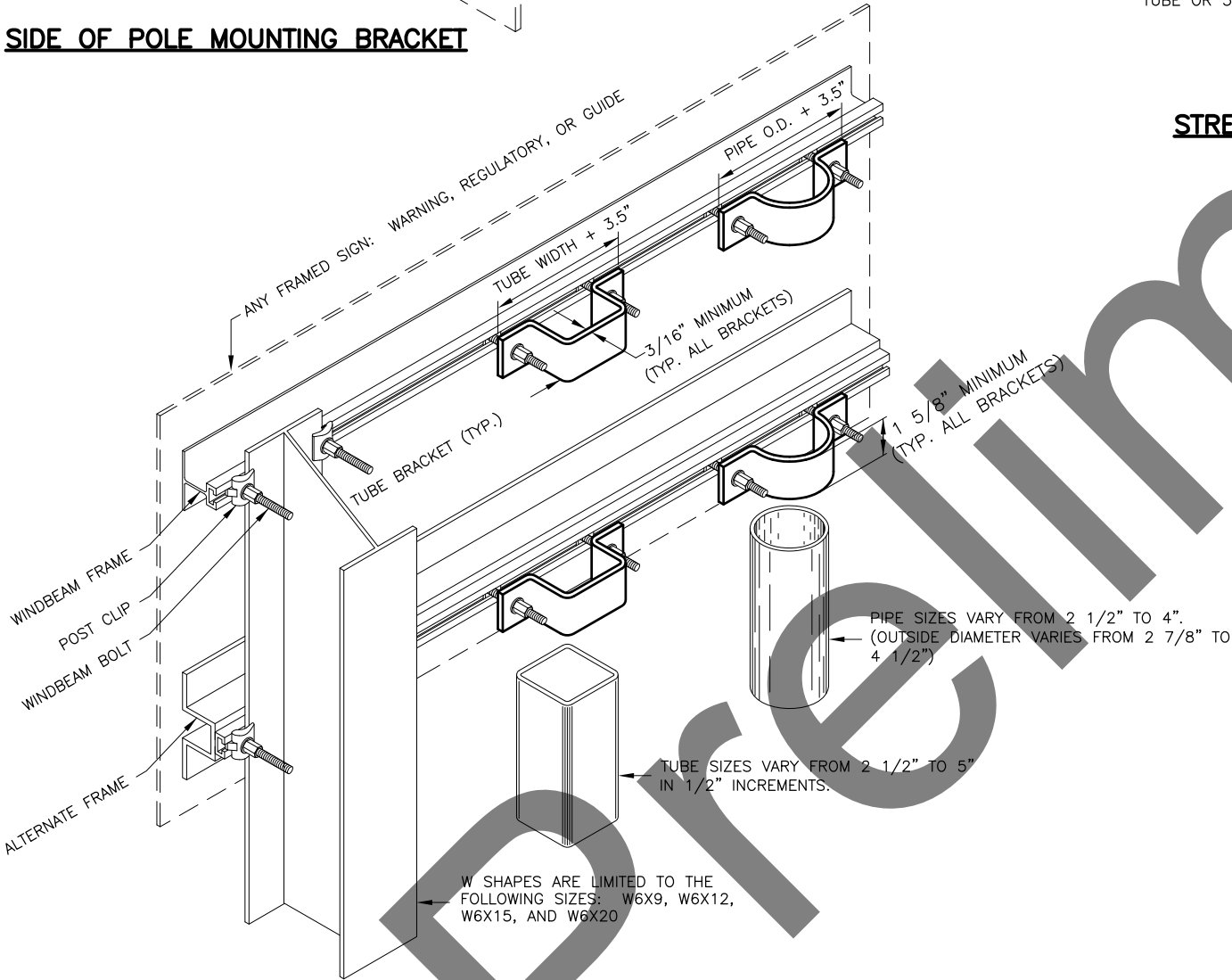
NOTES:

- EXCEPT FOR POLES AND MASTARMS, 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 MASTARMS WITH TWO SADDLES.
- ATTACH BRACKETS TO POLES AND MASTARMS 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 MASTARMS USING POLE PLATES INSTALLED ACCORDING TO ALASKA STANDARD PLAN S-23.
- FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

FASTENER SPECIFICATION TABLE		
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A 307	ASTM F 593
NUTS	REGULAR LOCK	ASTM A 563
		ASTM F 594
WASHERS	ASTM A 36	ASTM A 480
POST CLIPS		

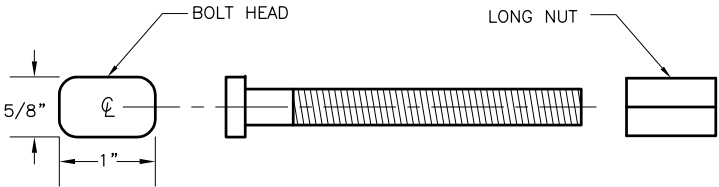


SIDE OF POLE MOUNTING BRACKET

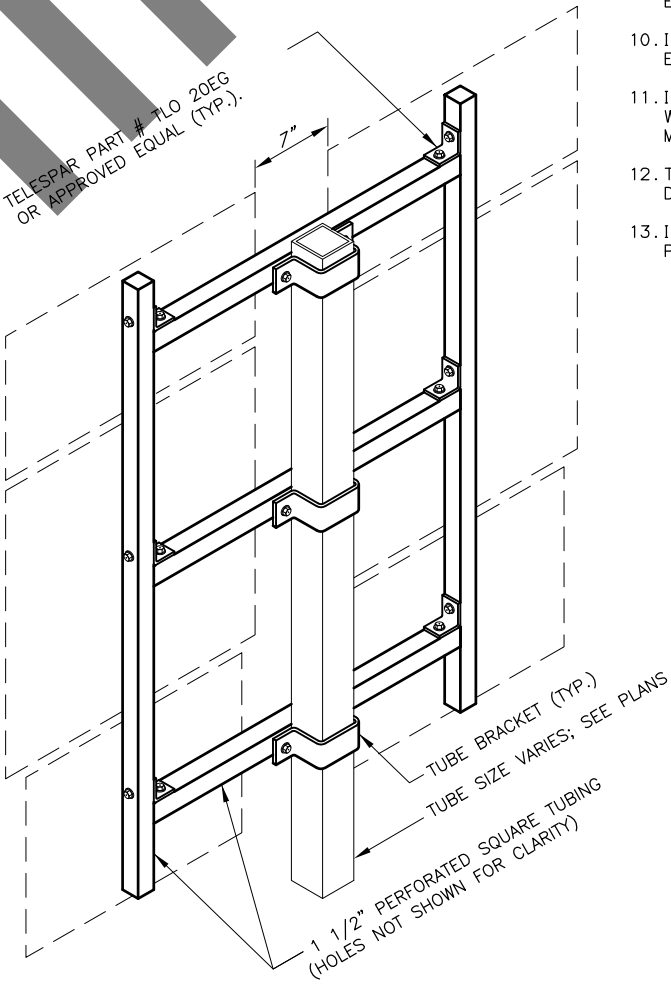


STREET NAME SIGN INSTALLATION

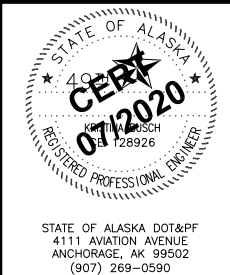
FRAMED SIGN ATTACHMENT BRACKETS



3/8" WINDBEAM BOLT AND LONG NUT



ROUTE MARKER TREE

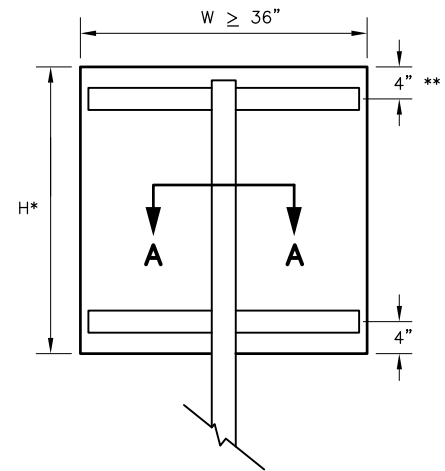


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
HSIP:GLENN HIGHWAY
MEDIAN BARRIER,
MP 30 TO 34

SIGN ATTACHMENT DETAILS

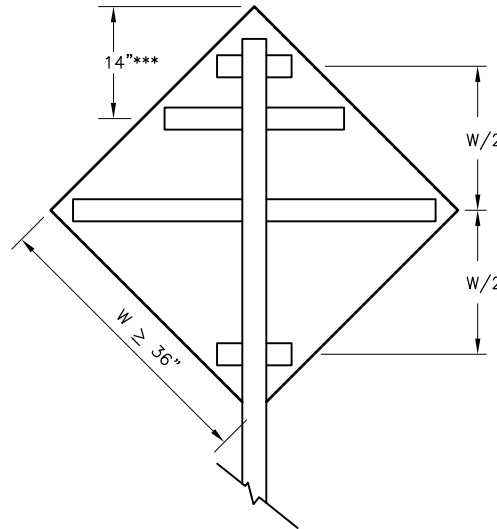
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	H03	H04

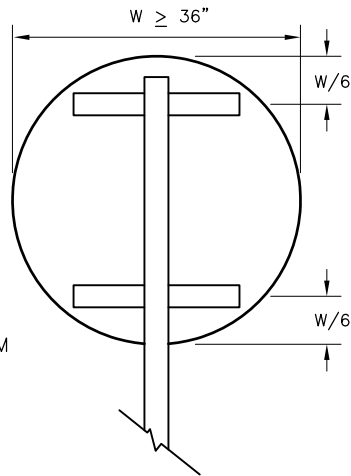


RECTANGLES AND TRAPEZOIDS

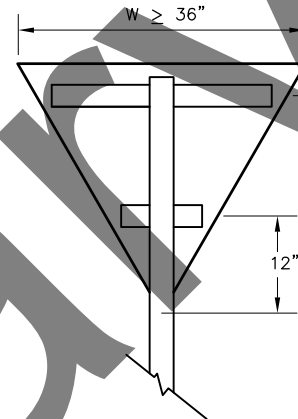
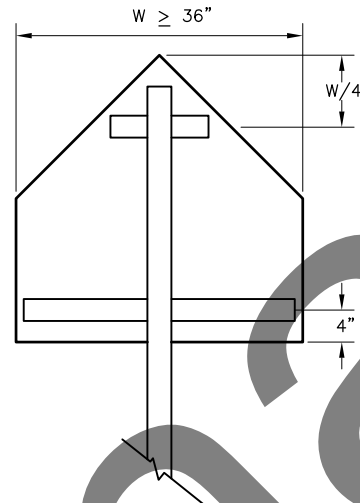
- * WHEN $H > 42$ INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
- ** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".



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

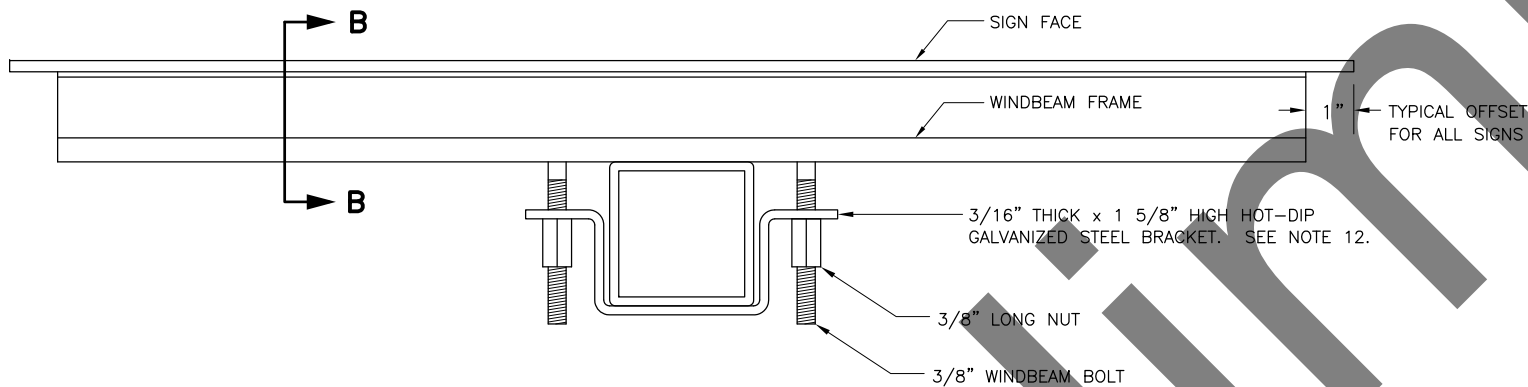


ROUNDS AND OCTAGONS

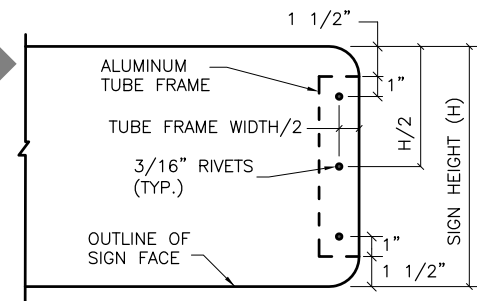


WINDBEAM LOCATIONS FOR EACH SIGN SHAPE

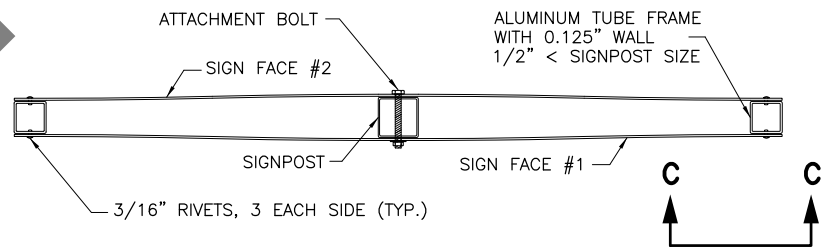
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

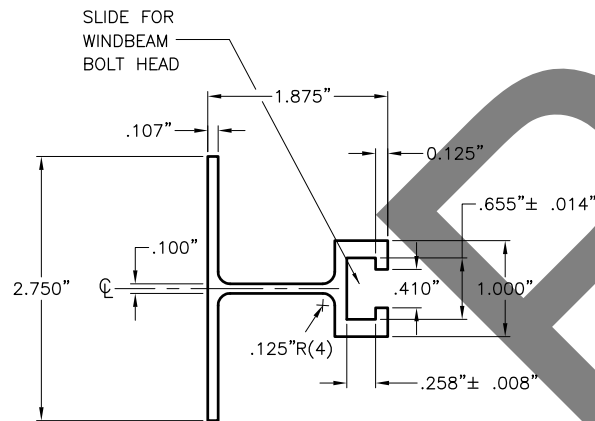


VIEW C - C

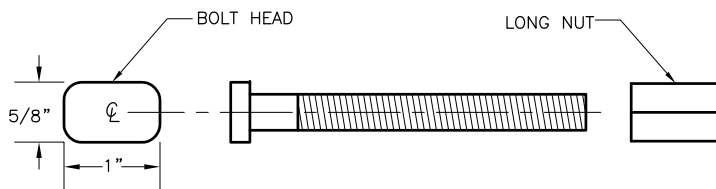


D3-1 STREET NAME SIGN FRAMING DETAIL

PLAN VIEW



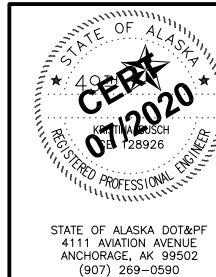
SECTION B - B WINDBEAM CROSS SECTION



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.

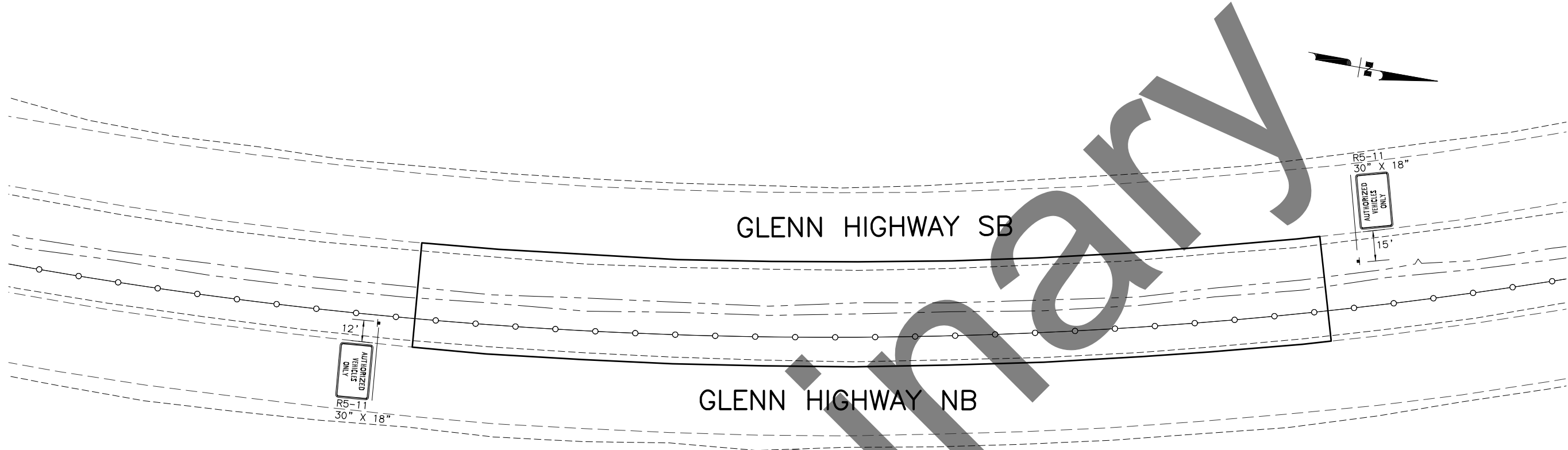


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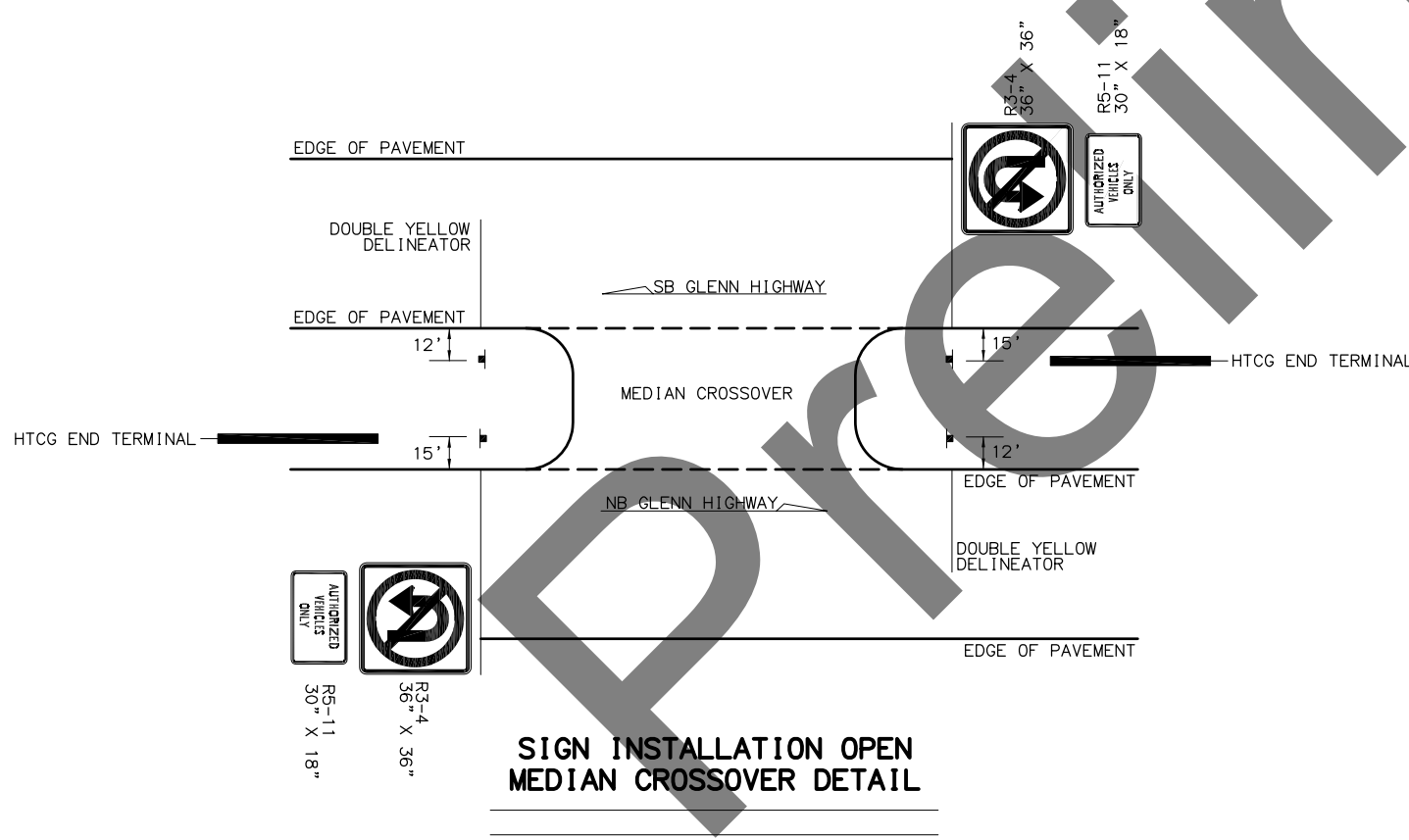
LIGHT SIGN FRAMING AND
ATTACHMENT DETAILS

FILE C:\USERS\JP\PARADA\DOCUMENTS\HSIP\GLENN MB\WP30-34 - 00294\CIV3D16\PLANSET\CERT\00294_H04_SIGN_LAYOUT_CERT.DWG 7/28/2020 10:55 AM [LAYOUT] H04 DESIGNED JP CHECKED -- DRAFTED JP

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0A16053/CFHWY00294	2020	H04	H04



500' CLOSED MEDIAN CROSSOVER SIGN DETAIL



SIGN INSTALLATION OPEN MEDIAN CROSSOVER DETAIL



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MEDIAN CROSSOVER
SIGN INSTALLATION DETAILS