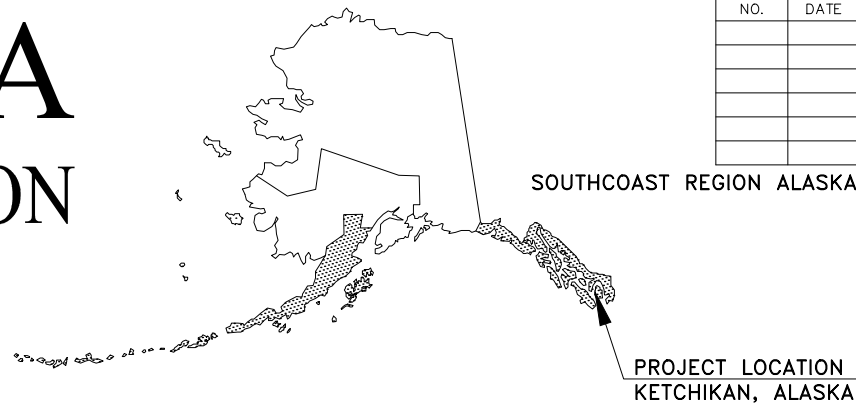


FILE Z:\Project\2630.00 DOT_SC KTN Water Street Trestle and Gorge St Viaduct Design Services\Civil\ACAD\Soyles-Gorge\00070-A1-Title.dwg DATE 9/18/23 LAYOUT A1 DESIGNED JMH CHECKED JLO DRAFTED AUB, JTH

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES



NO.	DATE	REVISIONS	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	A1	103
				CDS ROUTE: 4041222, 4041223	MILEPOINT: 0.069, 0.077		
				LATITUDE: 55.346278	LONGITUDE: -131.659411		

PROPOSED HIGHWAY PROJECT

KTN: SAYLES/GORGE ST. VIADUCT (1841)

IMPROVEMENTS

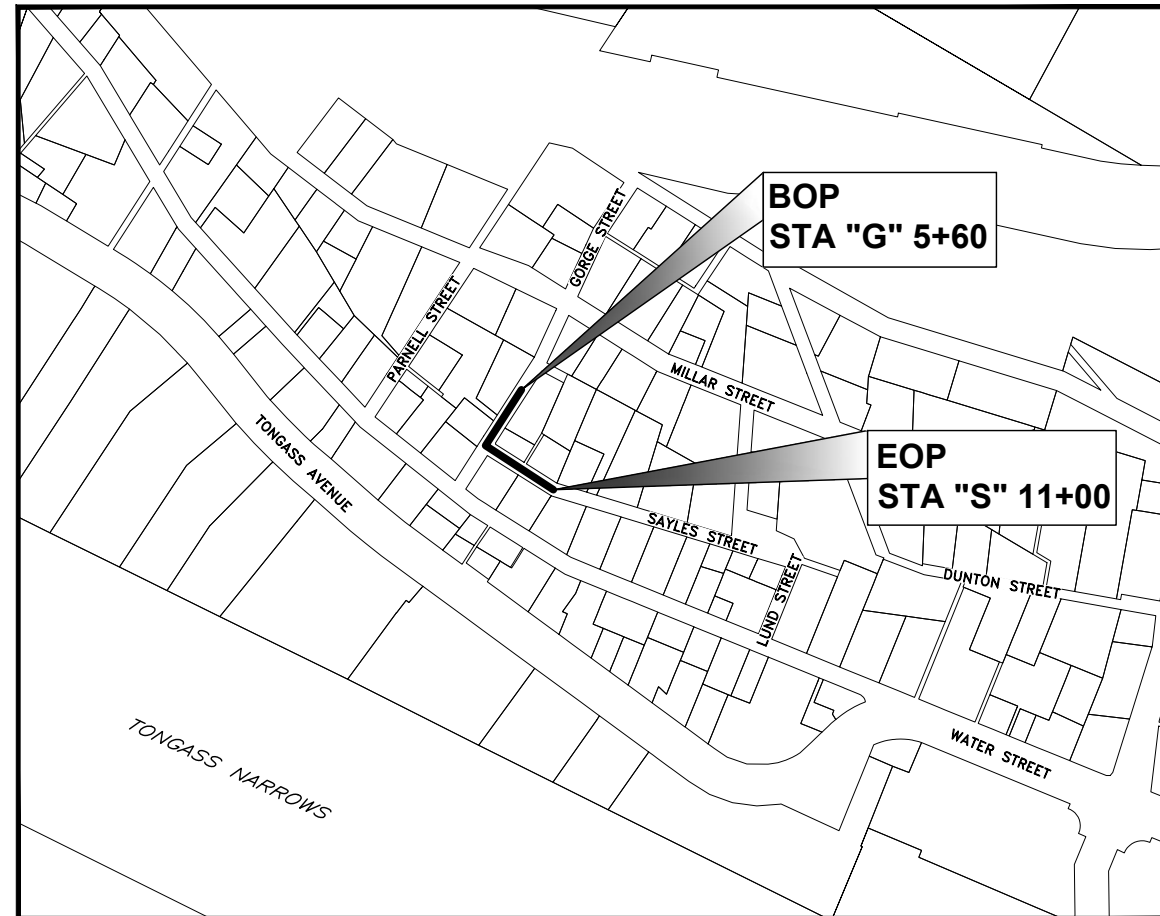
PROJECT NO. 0003225/SFHWHY00070

GRADING, BRIDGE, DRAINAGE, PAVING, SIGNING, AND UTILITIES

PROJECT SUMMARY	
SAYLES STREET WIDTH OF PAVEMENT	17 FT 6 IN
GORGE STREET WIDTH OF PAVEMENT	17 FT 6 IN
LENGTH OF PAVING	36 FT
LENGTH OF PROJECT	179 FT

DESIGN DESIGNATIONS	
FUNCTIONAL CLASS	LOCAL ROAD
ADT (2021)	430
ADT (2044)	455
DHV (2021)	46
DHV (2044)	49
PERCENT TRUCKS (T)	1.47%
DIRECTIONAL SPLIT (D)	54%
DESIGN SPEED (V)	20 MPH
DESIGN ESALs	200,000

ALIGNMENT DESIGNATIONS			
NAME	DESIGNATION	BEGIN	END
GORGE STREET	"G"	"G" STA 5+60.00	"G" STA 6+49.61
SAYLES STREET	"S"	"S" STA 10+10.42	"S" STA 11+00.00



VICINITY MAP

PS&E REVIEW:
 SEPTEMBER 2023

PLANS DEVELOPED BY: R&M Consultants, Inc.
 9101 Vanguard Drive - Anchorage, Alaska 99507
 907 522-1707 voice - 907 522-3404 fax
 www.rmconsult.com - Cert. of Auth. No. AECC111

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA
 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2020
 EDITION AND THE PROJECT SPECIAL PROVISIONS.

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99811
 (907) 465-1763

APPROVED: _____
 KIRK MILLER, P.E.
 REGIONAL PRECONSTRUCTION ENGINEER DATE

CONCUR: _____
 CHRISTOPHER GOINS, P.E.
 DIRECTOR, SOUTHCOAST REGION DATE

FILE 2:\projects\0000-00-001-01-00-00-0000\11\10\000\0001\000000\0001\000000\0000\000000.dwg
 DATE 9/18/23 LAYOUT A2 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

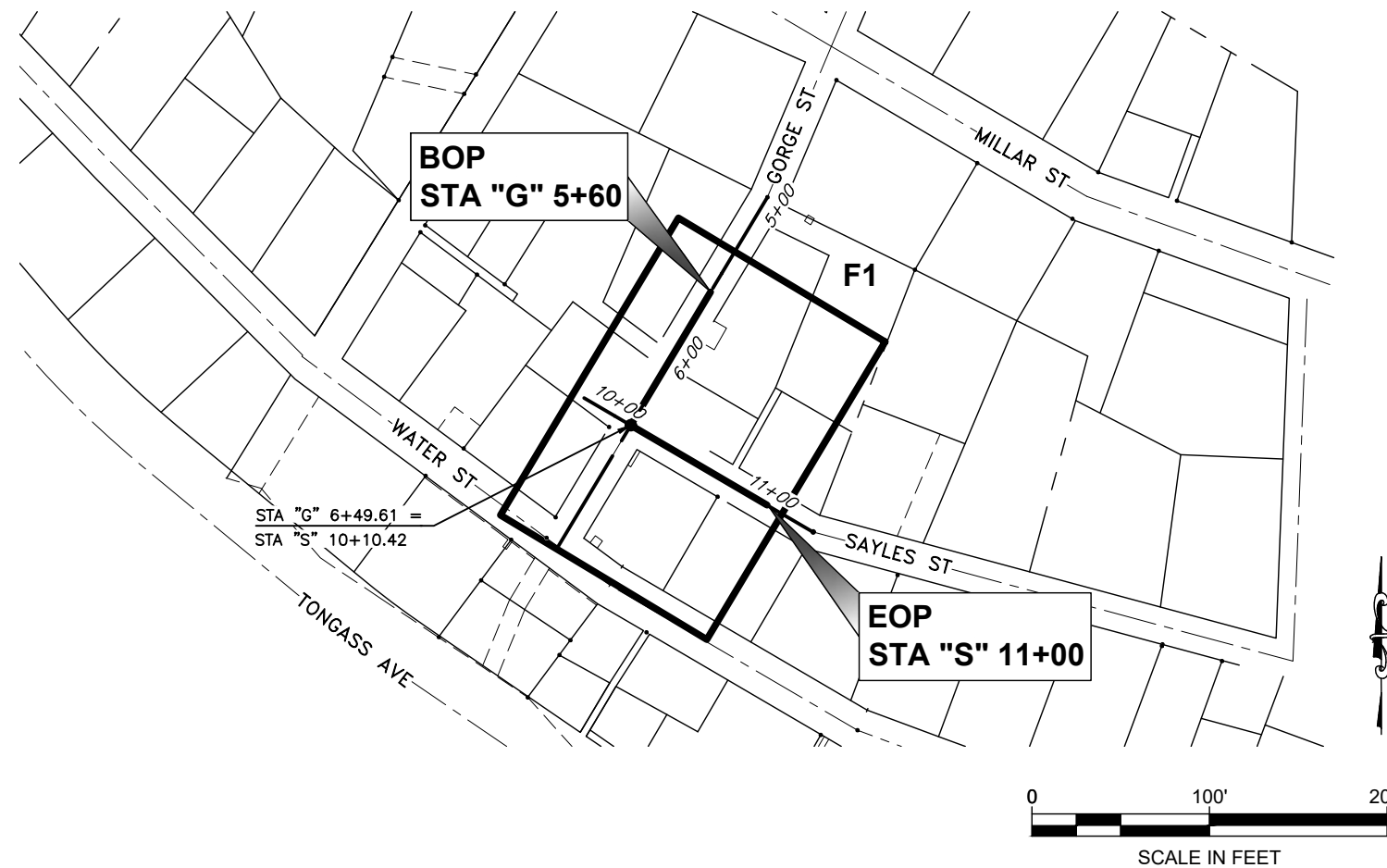
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHUY00070	2023	A2	A4

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROTECT IN PLACE FEATURES ON PRIVATE PROPERTIES IDENTIFIED IN THE PLANS, AND TO THE GREATEST EXTENT POSSIBLE, MINIMIZE IMPACTS TO PRIVATE PROPERTY IMPROVEMENTS.
2. CONTAIN ALL CONSTRUCTION WITHIN THE RIGHT-OF-WAY OR TEMPORARY CONSTRUCTION EASEMENTS. DO NOT DISPOSE OF EXCESS MATERIAL WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS.
3. THE DESIGN SURVEY WAS PERFORMED APRIL 2019 TO ESTABLISH GROUND AND TOPOGRAPHIC FEATURES. FIELD CONDITIONS MAY HAVE CHANGED THAT ARE NOT REPRESENTED IN THIS PLANSET.
4. UTILITY LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM AS-BUILT DRAWINGS. FIELD CONDITIONS MAY NOT BE ACCURATELY REPRESENTED AND/OR MAY HAVE CHANGED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING UTILITY COMPANY FIELD LOCATES PRIOR TO EXCAVATION.
5. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR ANY NECESSARY SHORING OF UTILITY POLES DUE TO STORM DRAIN INSTALLATION.
6. ALL WORK IN CLOSE PROXIMITY TO EXISTING UNDERGROUND ELECTRICAL AND TELECOMMUNICATION LINES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. HAND DIGGING IS REQUIRED WITHIN TWO FEET OF BURIED ELECTRICAL UTILITIES.
7. ALL STORM DRAIN STRUCTURES INCLUDE 18" SUMP EXCEPT FOR STORM STRUCTURE INLET, TYPE D.
8. WHEN PAVING ADJACENT TO CURB & GUTTER, THE CONTRACTOR SHALL ENSURE THAT THE ASPHALT SURFACE BE 1/8"-1/4" HIGHER THAN THE LIP OF THE GUTTER PAN FOR CATCH CURB AND 1/8"-1/4" LOWER THAN THE LIP OF THE GUTTER PAN FOR SPILL CURB.
9. INVASIVE PLANT SPECIES LOCATIONS ARE SHOWN IN P SHEETS.

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SHEET INDEX, LAYOUT SCHEMATIC, GENERAL NOTES
A3	LEGEND / SYMBOLS
A4	SURVEY CONTROL SHEET
B1-B3	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1-D4	SUMMARY TABLES
E1-E11	DETAILS
F1	DEMOLITION PLAN
F2-F3	PLAN & PROFILE
N1-N46	BRIDGE DETAILS
P1-P2	ESCP SHEETS
S1-S4	CONSTRUCTION PHASING
T1-T2	TRAFFIC CONTROL PLANS
U1-U14	UTILITY SHEETS
V1-V8	TELECOM

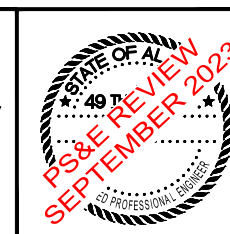
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
AADT	ANNUAL AVERAGE DAILY TRAFFIC	NTS	NOT TO SCALE
ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION	OC	ON CENTER
ADT	AVERAGE DAILY TRAFFIC	OD	OUTER DIAMETER
AWWA	AMERICAN WATER WORKS ASSOCIATION	OH	OVERHEAD UTILITY
BMP	BEST MANAGEMENT PRACTICE	OHE	OVERHEAD ELECTIC
BOP	BEGINNING OF PROJECT, BOTTOM OF PIPE	PG	PROFILE GRADE
C&G	CURB & GUTTER	PGL	PROFILE GRADE LINE
CI	CAST IRON	PSI	POUNDS PER SQUARE INCH
CL, CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	R	RADIUS
CONT	CONTINUOUS	REF	REFERENCE
CPEP	CORRUGATED POLYETHYLENE PIPE	REINF	REINFORCING
CY	CUBIC YARD	ROW	RIGHT-OF-WAY
DI	DUCTILE IRON	RT	RIGHT
DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
EA	EACH	SDMH	STORM DRAIN MANHOLE
EG	EXISTING GROUND	SHLD	SHOULDER
EL, ELEV	ELEVATION	SPA	SPACING
EOP	END OF PROJECT, EDGE OF PAVEMENT	SS	SANITARY SEWER
ESCP	EROSION AND SEDIMENT CONTROL PLAN	ST	STREET
FG	FINISHED GRADE	STA	STATION
FT	FEET, FOOT	STD	STANDARD
GV	GATE VALVE	SY	SQUARE YARD
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
HMA	HOT MIX ASPHALT	VB	VALVE BOX
IN	INCH	VPC	VERTICAL POINT OF CURVATURE
INV	INVERT	VPI	VERTICAL POINT OF INTERSECTION
KPU	KETCHIKAN PUBLIC UTILITIES	VPT	VERTICAL POINT OF TANGENCY
LF	LINEAR FOOT	W	WATER
LONGIT	LONGITUDINAL		
LT	LEFT		
LVC	LENGTH OF VERTICAL CURVE		
MAX	MAXIMUM		
ME	MATCH EXISTING		
MIN	MINIMUM		
MJ	MECHANICAL JOINT		



THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

D-24.00	D-26.04	M-20.15
M-23.13	S-01.02	S-05.02
S-20.11	S-30.05	U-03.01

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Cert. of Auth. No. AECC111



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

SHEET INDEX, LAYOUT SCHEMATIC, GENERAL NOTES

FILE: Z:\projects\2020-2023\174\174-0000\174-0000.dwg
 DATE: 9/18/23 LAYOUT: A3 DESIGNED: JMH CHECKED: JLO DRAFTED: AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	A3	A4

	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		
CONSTRUCTION CENTERLINE		
MICELLANEOUS CENTERLINE		
STATION EQUATION		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
EXISTING EASEMENT LINE		
PROPOSED EASEMENT LINE		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE		
MEANDER LINE		

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)		
FUEL LINE		
GAS LINE		
WATER LINE		
METER, VALVE, FIRE HYDRANT		
STORM DRAIN (FLOW DIRECTION →)		
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT		
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE		
SANITARY SEWER CLEAN OUT		
SPECIAL DITCH CENTERLINE		
HIGH TIDE LINE		
GRAVEL EDGE		
DRIVEWAY REGRADING		
RIPRAP		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
RAILROAD TRACKS		
RAILROAD DEVICES		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL POST W/O MAST ARM		
SIGNAL POLE W/MAST ARM		
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		

- H = HOUSE
- G = GARAGE
- M = MERCHANT/STORE
- B = BARN
- S = SHED
- P = PRIVY
- SS = SERVICE STATION
- W = WAREHOUSE

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STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763
**KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS**
 LEGEND / SYMBOLS

FILE Z:\projects\0800-00-201-02-17N-Mile-Street-Traffic-and-Gorge-St-Viaduct-Design-Service\1\08000000\08000000\08000000\08000000.dwg DATE 9/18/23 LAYOUT A4 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	A4	A4

SURVEY CONTROL SHEET TO BE INCLUDED WITH FINAL PS&E SUBMITTAL

PLANS DEVELOPED BY:
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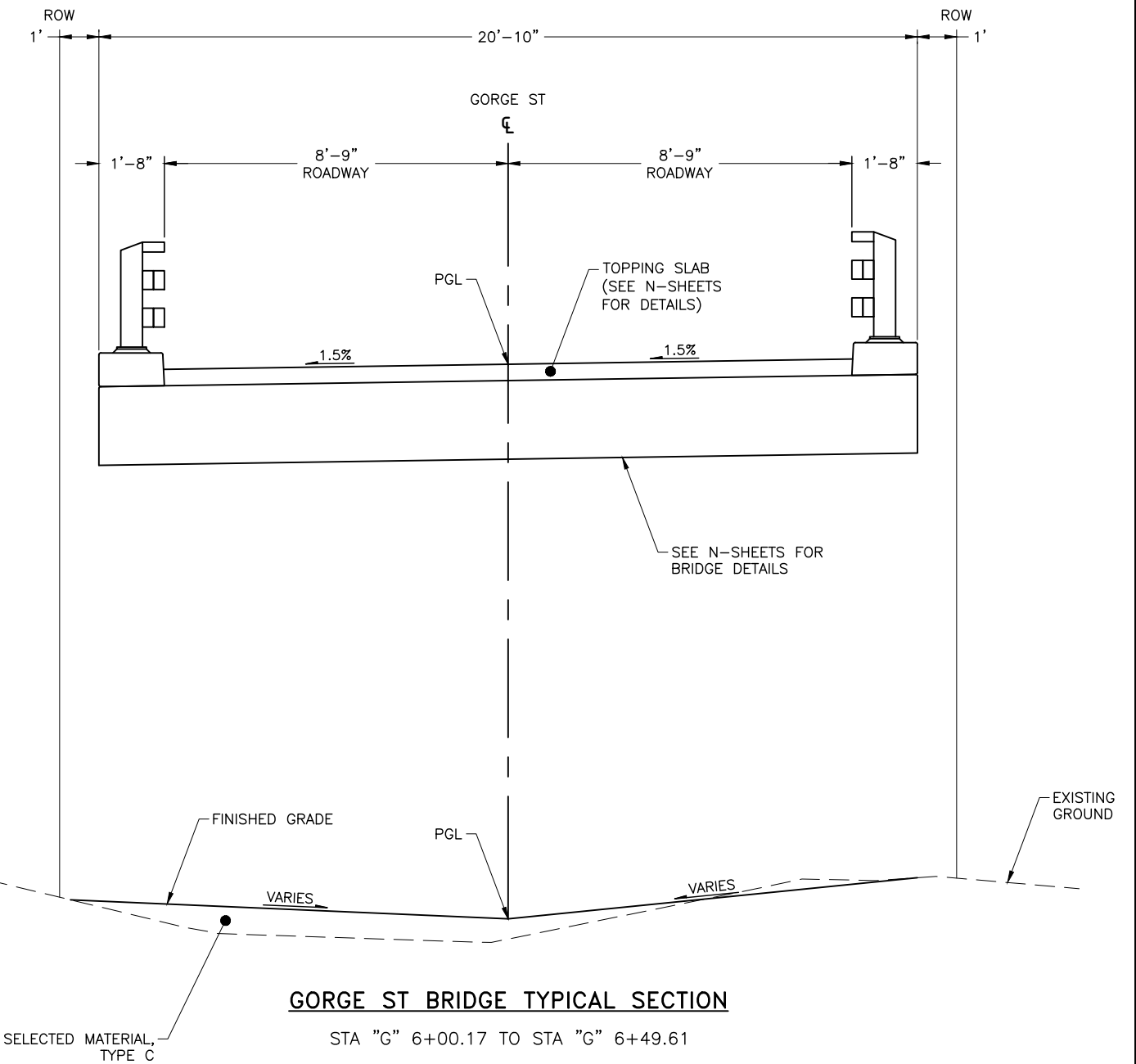
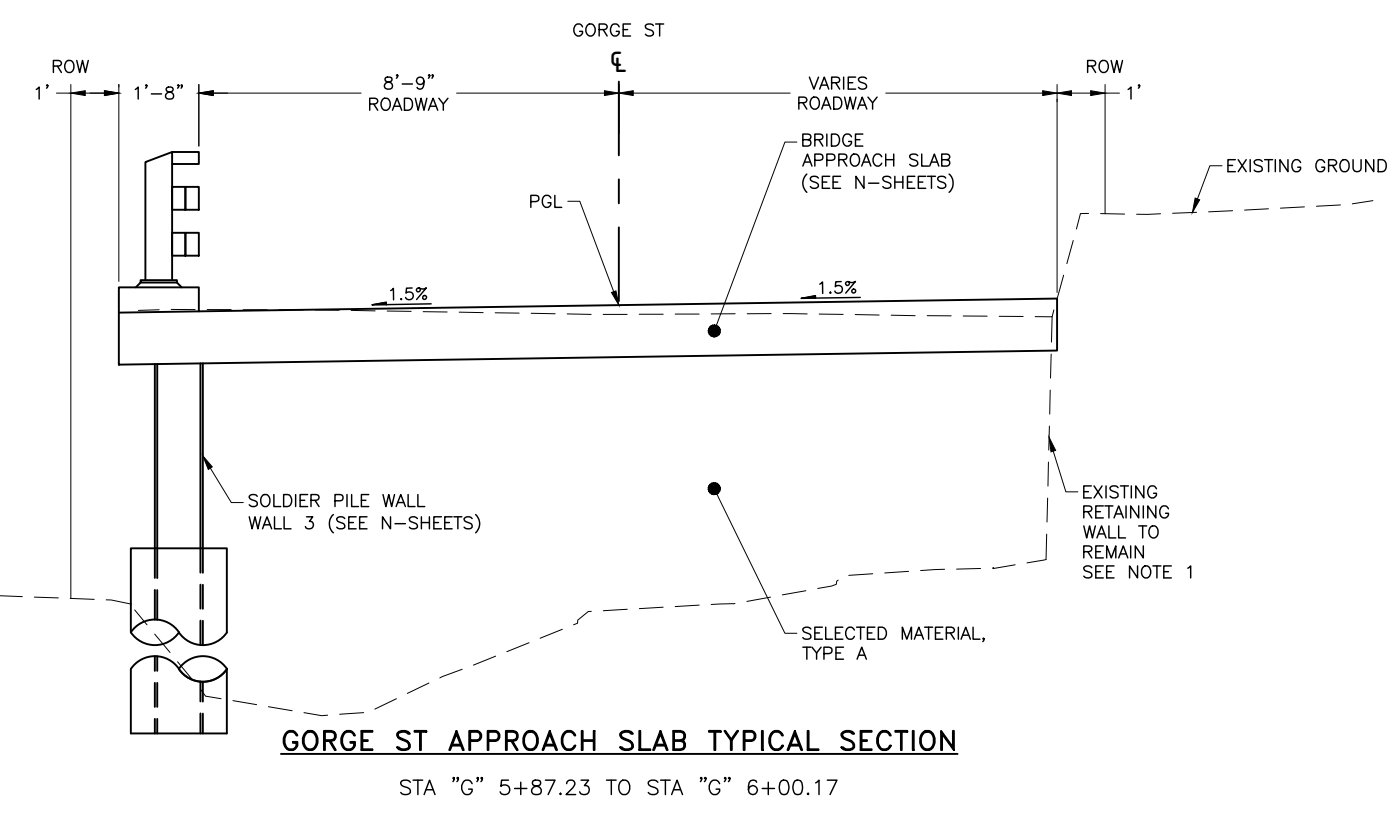
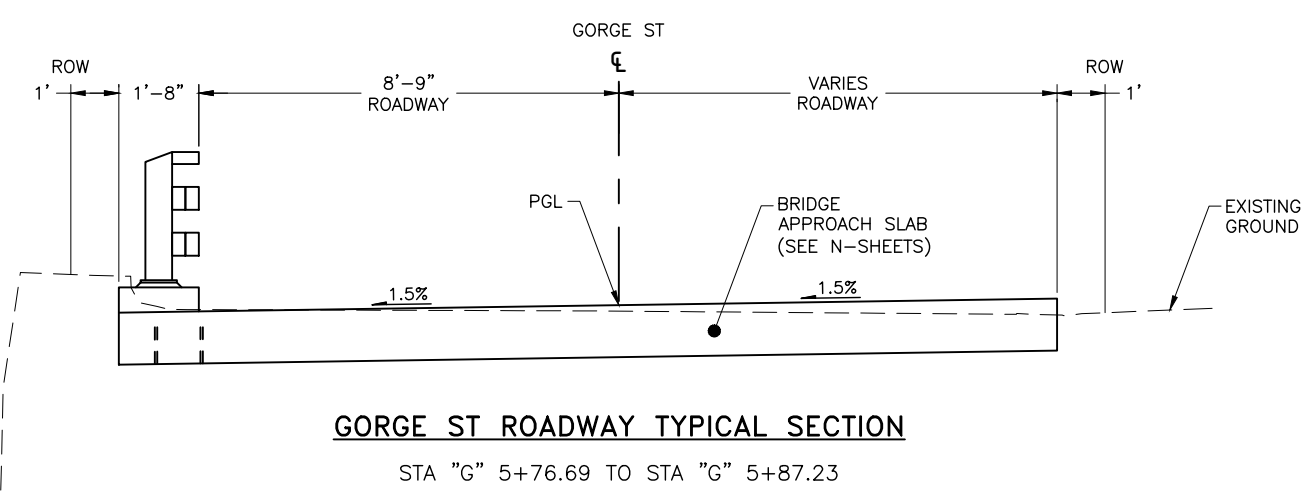
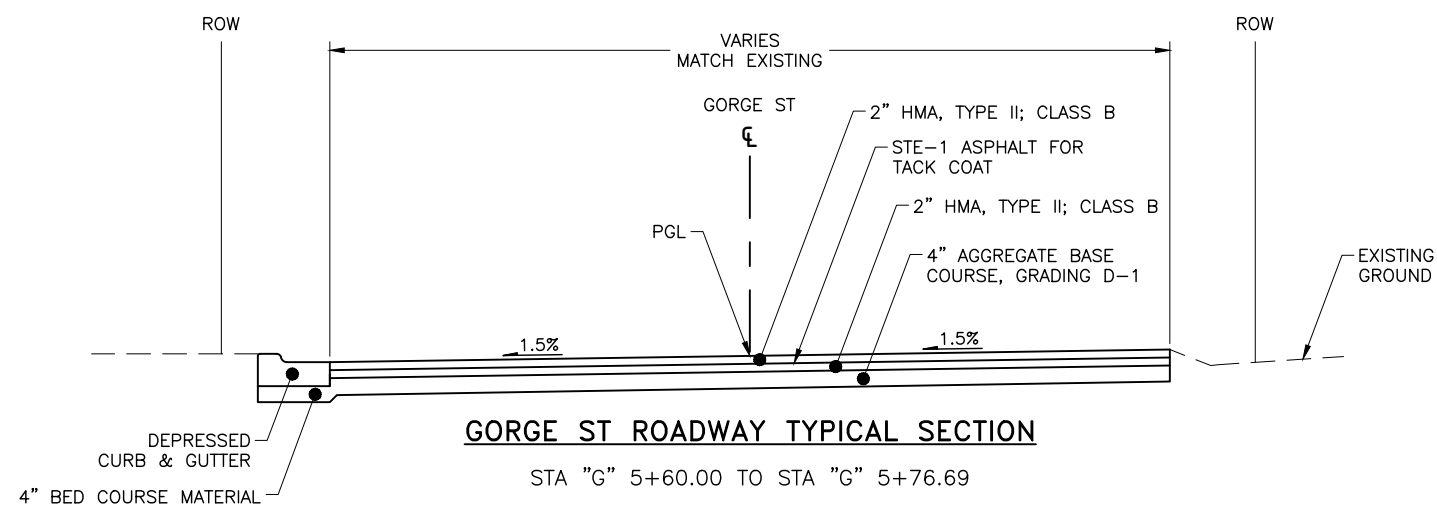


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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763
**KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS**

SURVEY CONTROL SHEET

FILE Z:\projects\0800-00-001-02-00-00-00-00\0800-00-001-02-00-00-00-00\0800-00-001-02-00-00-00-00-00\0800-00-001-02-00-00-00-00-00-00.dwg
 DATE 9/18/23 LAYOUT B1 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	B1	B3



NOTES:

1. USE CAUTION WHEN FILLING AND COMPACTING ADJACENT TO EXISTING RETAINING WALLS TO AVOID DAMAGING THEM.

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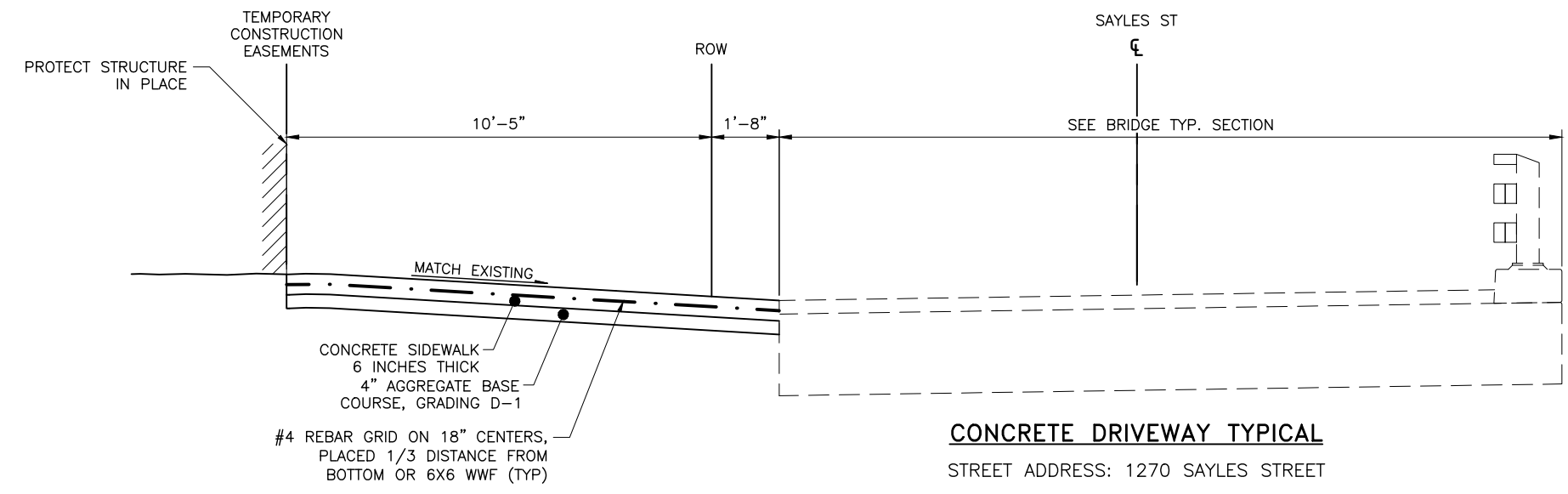
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

TYPICAL SECTIONS

FILE Z:\projects\0800-00-001-02-RTN-Motor-Street-Transit-and-Gorge-St-Viaduct-Design-Service\11\0800-001-RTN-Motor-Street-Transit-and-Gorge-St-Viaduct-Design-Service\0800-001-RTN-Motor-Street-Transit-and-Gorge-St-Viaduct-Design-Service.dwg 9/18/23 LAYOUT B3 CHECKED JLO DRAFTED AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	B3	B3



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KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS

TYPICAL SECTIONS

FILE Z:\projects\2020-20 2015-2016\176\176.dwg | 9/18/23 | LAYOUT | C2 | DATE | DESIGNED | JMH | CHECKED | JLO | DRAFTED | AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	C2	C2

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
615.0001.0000	STANDARD SIGN	SQUARE FOOT	7.5
620.0001.0000	TOPSOIL	SQUARE YARD	390
626.0001.0008	SANITARY SEWER CONDUIT, 8 INCH PVC C900	LINEAR FOOT	38
626.0001.0008	SANITARY SEWER CONDUIT, 8 INCH PVC C900, INSULATED	LINEAR FOOT	83
626.0002.0000	SANITARY SEWER SERVICE CONNECTION	EACH	2
626.2003.0000	SANITARY SEWER CLEANOUT	EACH	1
626.2009.0000	SANITARY SEWER PIPE CASING, 12 INCH, HDPE, SDR 11	LINEAR FOOT	29
627.0003.0000	INSTALL VALVE BOX	EACH	2
627.0008.0000	WATER SERVICE CONNECTION	EACH	5
627.0009.0008	GATE VALVE, 8 INCH	EACH	2
627.2012.0008	HDPE WATER CONDUIT, 8-INCH, SDR 11	LINEAR FOOT	85
627.2012.0008	HDPE WATER CONDUIT, 8-INCH, SDR 11, INSULATED	LINEAR FOOT	86
627.2021.0000	WATER PIPE CASING, 12 INCH, HDPE, SDR 11	LINEAR FOOT	60
631.0001.0002	GEOTEXTILE, DRAINAGE, CLASS 2	SQUARE YARD	50
635.0002.0000	INSULATION BOARD	SQUARE FOOT	310
639.0001.0000	DRIVEWAY	EACH	2
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0003.0000	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643.0023.0000	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643.0025.0000	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643.2005.0000	PUBLIC INFORMATION PROGRAM	LUMP SUM	ALL REQUIRED
644.0001.0000	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644.0006.0000	VEHICLE	LUMP SUM	ALL REQUIRED
644.2004.0000	ENGINEERING COMMUNICATIONS	CONTINGENT SUM	ALL REQUIRED
644.2008.0000	WEB-BASED SUBMITTALS	LUMP SUM	ALL REQUIRED
646.0001.0000	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
658.0001.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL WITHOUT CGP COVERAGE	LUMP SUM	ALL REQUIRED
658.0002.0000	ESCP CHANGES BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
680.2000.0000	TELECOMMUNICATIONS UTILITY RELOCATION - PERMANENT INSTALLATION	LUMP SUM	ALL REQUIRED
680.2000.0000	TELECOMMUNICATIONS UTILITY RELOCATION - TEMPORARY INSTALLATION	LUMP SUM	ALL REQUIRED
684.2000.0000	TELEVISION UTILITY RELOCATION - PERMANENT INSTALLATION	LUMP SUM	ALL REQUIRED
684.2000.0000	TELEVISION UTILITY RELOCATION - TEMPORARY INSTALLATION	LUMP SUM	ALL REQUIRED
687.2000.0000	POWER UTILITY RELOCATION - PERMANENT INSTALLATION	LUMP SUM	ALL REQUIRED
687.2000.0000	POWER UTILITY RELOCATION - TEMPORARY INSTALLATION	LUMP SUM	ALL REQUIRED

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM	ESTIMATING FACTOR
203.0005.000A	BORROW, TYPE A	145 LB/CF
205.0004.0000	POROUS BACKFILL MATERIAL	100 LB/CF
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	145 LB/CF
401.0001.002B	HMA, TYPE II; CLASS B	150 LB/CF
401.0004.5258	ASPHALT BINDER, GRADE PG 52-58	5% OF 401.0001.002B
402.0001.STE1	STE-1 ASPHALT FOR TACK COAT	0.000334 TON/SY

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KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS

ESTIMATE OF QUANTITIES

FILE Z:\projects\0202.00 001.02: 6th Water Street, Viaduct, Design, Site\102011\102011\0202001\10202001.dwg 9/18/23 LAYOUT D2 DATE 9/18/23 CHECKED JLO DRAFTED AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	D2	D4

603.0017.0024, 603.0021.0018, 603.2023.0006 STORM DRAIN PIPE SUMMARY

SHEET	NAME	INLET			OUTLET			SLOPE	603.0017.0024 PIPE 24 INCH, CASING	603.0021.0018 CORRUGATED POLYETHYLENE PIPE 18 INCH	603.2023.0006 PVC PIPE, 6" SCH40	REMARKS
		STATION	OFFSET	INVERT	STATION	OFFSET	INVERT					
U4	P1-1	"G" 5+75.7	7.3 LT	116.0	"G" 6+18.49	6.6 LT	97.0	44.3%		46.8		
U4	UC-04	"G" 5+75.7	7.3 LT	115.7	"G" 6+02.3	6.9 LT	103.9	44.3%	29.1			
U4	P1-2	"G" 6+16.4	16.9 LT	100.7	"G" 6+18.5	6.6 LT	98.3	10.0%			23.8	
U4	P1-3	"G" 6+18.5	6.6 LT	96.5	"G" 6+36.9	6.3 LT	93.7	15.2%		18.6		
U4	P1-4	"G" 6+40.6	7.0 LT	95.4	"G" 6+36.9	6.3 LT	95.3	2.0%			3.8	
U4	P1-5	"G" 6+36.9	6.3 LT	93.6	"G" 6+53.8	0.8 LT	89.7	21.9%		18.2		
U4	P1-6	"G" 6+59.7	32.8 RT	90.6	"G" 6+53.9	32.3 RT	90.5	1.0%			5.8	
U4	P1-7	"G" 6+53.9	32.3 RT	90.4	"G" 6+53.8	0.8 LT	89.1	3.9%			33.1	
U4	P1-8	"G" 6+53.8	0.8 LT	88.4	"G" 6+79.5	2.1 LT	78.7	37.7%		27.5		
TOTAL:									29.1	111.1	66.5	
ROUNDED TOTAL:									30 LF	112 LF	67 LF	

604.0005.000A, 604.0005.000D STORM DRAIN STRUCTURES

SHEET	NAME	604.0005.000A	604.0005.000D	STATION	OFFSET	TOP OF CASTING ELEVATION	TYPE OF CASTING	REMARKS
		INLET, TYPE A	INLET, TYPE D					
U4	S1-1	X		"G" 5+75.7	7.3 LT	120.1	ADA FLAT INLET	
U4	S1-2	X		"G" 6+18.5	6.6 LT	100.5	FLAT LID	
U4	S1-3	X		"G" 6+36.9	6.3 LT	97.5	FLAT LID	
U4	S1-4	X		"G" 6+53.8	0.8 LT	93.0	FLAT LID	
U4	S1-5		X	"G" 6+53.9	32.3 RT	92.6	FLAT LID	
TOTAL:		4 EA	1 EA					

604.0010.0000 RECONSTRUCT INLET

SHEET	STATION	OFFSET	REMARKS
U4	"G" 6+79.9	4.5 LT	
TOTAL:		1 EA	

604.0002.0000, 626.0002.0000, 626.2003.0000 SANITARY SEWER MANHOLE, SANITARY SEWER SERVICE CONNECTION, SANITARY SEWER CLEANOUT

STATION	OFFSET	604.0002.0000	626.0002.0000	626.2003.0000	REMARKS
		SANITARY SEWER MANHOLE	SANITARY SEWER SERVICE CONNECTION	SANITARY SEWER CLEANOUT	
5+66.0	3.4 LT	X			
6+08.5	2.4 LT		X		
6+24.5	2.9 LT		X		
6+79.8	4.5 LT			X	
TOTAL:		1 EA	2 EA	1 EA	

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**KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS**

SUMMARY TABLES

FILE | Z:\projects\2020-20 2017-2018\174\174-0001\174-0001.dwg | 9/18/23 | LAYOUT | D3 | DATE | 9/18/23 | LAYOUT | D3 | DESIGNED | JMH | CHECKED | JLO | DRAFTED | AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	D3	D4

608.0001.0006 CONCRETE SIDEWALK, 6 INCHES THICK					
SHEET	START STATION	END STATION	OFFSET	AREA (SY)	REMARKS
F3	10+53.1	10+71.2	LT	19.0	
TOTAL:				19.0	
ROUNDED TOTAL:				20 SY	

609.0002.0001 CURB AND GUTTER, TYPE 1					
SHEET	START STATION	END STATION	OFFSET	LENGTH (LF)	REMARKS
F2	"G" 5+60.0	"G" 5+76.8	LT	16.7	DEPRESSED CURB AND GUTTER
F3	"S" 10+61.2	"S" 10+61.5	LT	12.2	GUTTER
F3	"S" 10+71.4	"S" 11+00.0	LT	28.7	GUTTER
F3	"S" 10+76.4	"S" 11+00.0	RT	23.6	FLAT GUTTER
TOTAL:				81.2	
ROUNDED TOTAL:				82 LF	

615.0001.0000 STANDARD SIGN SUMMARY												
SIGN POST NO	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	BRACED	FRAMED	AREA (SF)	POST	SIGN FACING	REMARKS
1	24 HR PARKING	"G" 5+83.2	9.6 LT	R7-108	12	18			1.5	2.5 PT	NW	SIGNS TO BE MOUNTED ON BRIDGE RAIL CURB
2	SAYLES STREET	"S" 10+00.8	8.5 RT	D3-101	30	8		X	1.67	2.5 PT	NE	
	GORGE STREET			D3-101	24	8		X	1.33		SE	
	NO PARKING			R7P-103 (CUSTOM)	12	18			1.5		SE	
3	NO PARKING	"S" 10+50.4	9.2 LT	R7P-102 (CUSTOM)	12	18			1.5	2.5 PT	SE	
TOTAL:									7.5 SF			

626.0001.0008, 626.2009.0000 SANITARY SEWER PIPE SUMMARY													
SHEET	NAME	INLET			OUTLET			SLOPE	626.0001.0008	626.0001.0008	626.2009.0000	REMARKS	
		STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		SANITARY SEWER CONDUIT, 8 INCH PVC C900 (LF)	SANITARY SEWER CONDUIT, 8 INCH PVC C900, INSULATED (LF)	SANITARY SEWER PIPE CASING, 12 INCH, HDPE, SDR 11 (LF)		
U3	SSP-01	5+66.0	3.4 LT	112.7	6+02.3	2.3 LT	105.5	19.7%	37.0				
U3	UC-03	5+74.7	3.1 LT	110.8	6+02.3	2.3 LT	105.4	19.7%			28.1		
U3	SSP-02	6+02.3	2.3 LT	105.5	6+79.8	4.5 LT	77.4	36.3%		82.6			
TOTAL:									37.0	82.6	28.1		
ROUNDED TOTAL:									38 LF	83 LF	29 LF		

627.0003.0000 INSTALL VALVE BOX			
SHEET	STATION	OFFSET	REMARKS
U1	"G" 5+65.8	2.6 RT	CONNECTING POINTS OF EXISTING AND DESIGN PIPES
U1	"S" 10+92.7	0.4 LT	CONNECTING POINTS OF EXISTING AND DESIGN PIPES
TOTAL:		2 EA	

627.0008.0000 WATER SERVICE CONENCTION			
SHEET	STATION	OFFSET	REMARKS
U1	"G" 5+69.5	2.2 RT	
U1	"G" 6+05.0	2.3 RT	
U1	"G" 6+38.3	2.3 RT	
U1	"S" 10+37.1	1.9 LT	
U1	"S" 10+78.6	1.9 LT	
TOTAL:		5 EA	

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KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

SUMMARY TABLES

FILE Z:\projects\2023-20 201-25 17N Water Street Transit and Gorge St Viaduct Design\11\4000\001\11\00000001.dwg DATE 9/18/23 LAYOUT D4 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	D4	D4

627.0009.0008 GATE VALVE, 8 INCH			
SHEET	STATION	OFFSET	REMARKS
U1	"G" 5+65.8	2.6 RT	
U1	"S" 10+92.7	0.4 LT	
TOTAL:		2 EA	

627.2012.0008, 627.2021.0000 WATER PIPE SUMMARY												
SHEET	NAME	INLET			OUTLET			SLOPE	627.2012.0008	627.2012.0008	627.2021.0000	REMARKS
		STATION	OFFSET	INVERT	STATION	OFFSET	INVERT		HDPE WATER CONDUIT, 8-INCH, SDR 11 (LF)	HDPE WATER CONDUIT, 8-INCH, SDR 11, INSULATED (LF)	WATER PIPE CASING, 12 INCH, HDPE, SDR 11 (LF)	
U1	WP-01	"G" 5+64.9	2.7 RT	117.5	"G" 5+69.0	2.3 RT	116.5	25.3%	4.3			
U1	WP-02	"G" 5+69.0	2.3 RT	116.5	"G" 6+01.0	2.3 RT	108.4	25.3%	33.0			
U1	UC-01	"G" 5+74.7	2.3 RT	114.9	"G" 6+02.3	2.3 RT	107.9	25.3%			28.4	
U1	WP-03	"G" 6+01.0	2.3 RT	108.4	"G" 6+16.6	2.3 RT	104.4	25.3%		16.0		
U1	WP-04	"G" 6+16.6	2.3 RT	104.4	"G" 6+47.7	2.3 RT	102.8	5.2%		31.2		
U2	WP-05	"S" 10+08.1	1.9 LT	102.8	"S" 10+46.8	1.9 LT	103.8	-2.5%		38.7		
U2	WP-06	"S" 10+46.8	1.9 LT	103.8	"S" 10+79.6	1.9 LT	104.6	-2.5%	32.8			
U2	UC-02	"S" 10+46.8	1.9 LT	103.6	"S" 10+77.4	1.9 LT	104.4	-2.5%			30.6	
U2	WP-07	"S" 10+79.6	1.9 LT	104.6	"S" 10+81.8	0.2 RT	105.3	-23.1%	3.1			
U2	WP-08	"S" 10+81.8	0.2 RT	105.3	"S" 10+90.7	0.3 LT	107.4	-23.1%	9.1			
U2	WP-09	"S" 10+90.7	0.3 LT	107.4	"S" 10+92.7	0.4 LT	107.4	-0.9%	2.0			
TOTAL:									84.3	85.9	59.0	
ROUNDED TOTAL:									85 LF	86 LF	60 LF	

635.0002.0000 INSULATION BOARD				
SHEET	START STATION	END STATION	AREA (SF)	REMARKS
U1	"G" 5+64.9	"G" 5+89.4	134.3	ABOVE WATER CONDUIT
U2	"S" 10+50.8	"S" 10+92.7	167.4	ABOVE WATER CONDUIT
TOTAL:			301.7	
ROUNDED TOTAL:			310 SF	

639.0001.0000 DRIVEWAY					
SHEET	START STATION	OFFSET	LENGTH (LF)	WIDTH	REMARKS
F2	"G" 5+69.0	LT	3	14	
F3	"S" 10+65.0	LT	15.7	115.1	
TOTAL:				2 EA	

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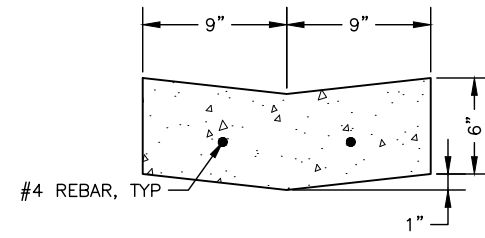
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KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS

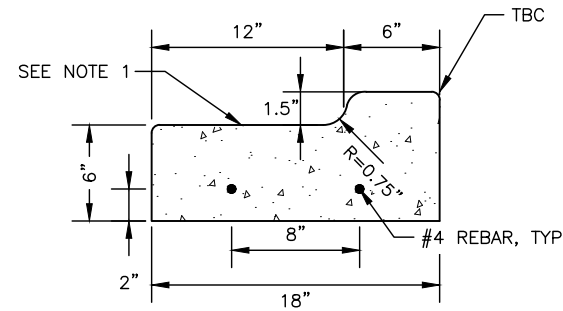
SUMMARY TABLES

FILE 2:\projects\0806-00-001-02-17N-Miles-Street-Transit-and-Gorge-St-Viaduct-Detail-Transit-and-Gorge-St-Viaduct-Detail-Transit-and-Gorge-St-Viaduct-Detail.dwg 9/18/23 LAYOUT E1 DATE 9/18/23 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

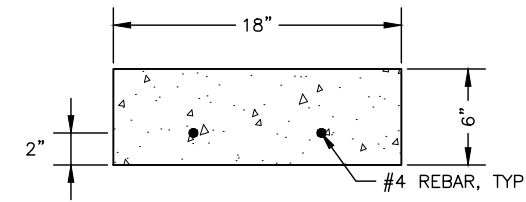
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	E1	E11



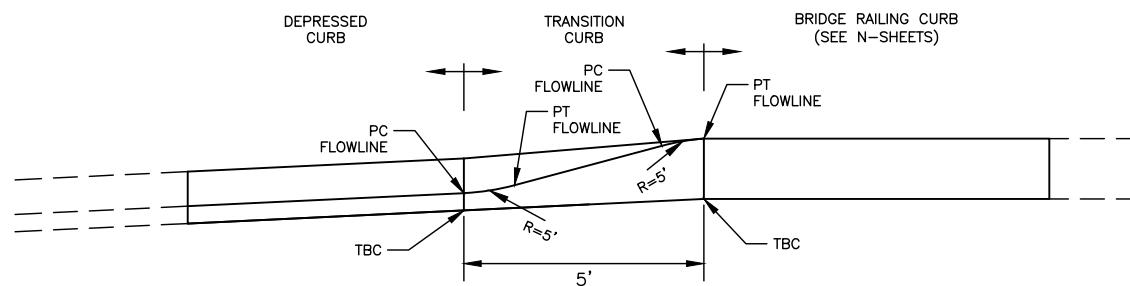
1
E1 GUTTER — NTS



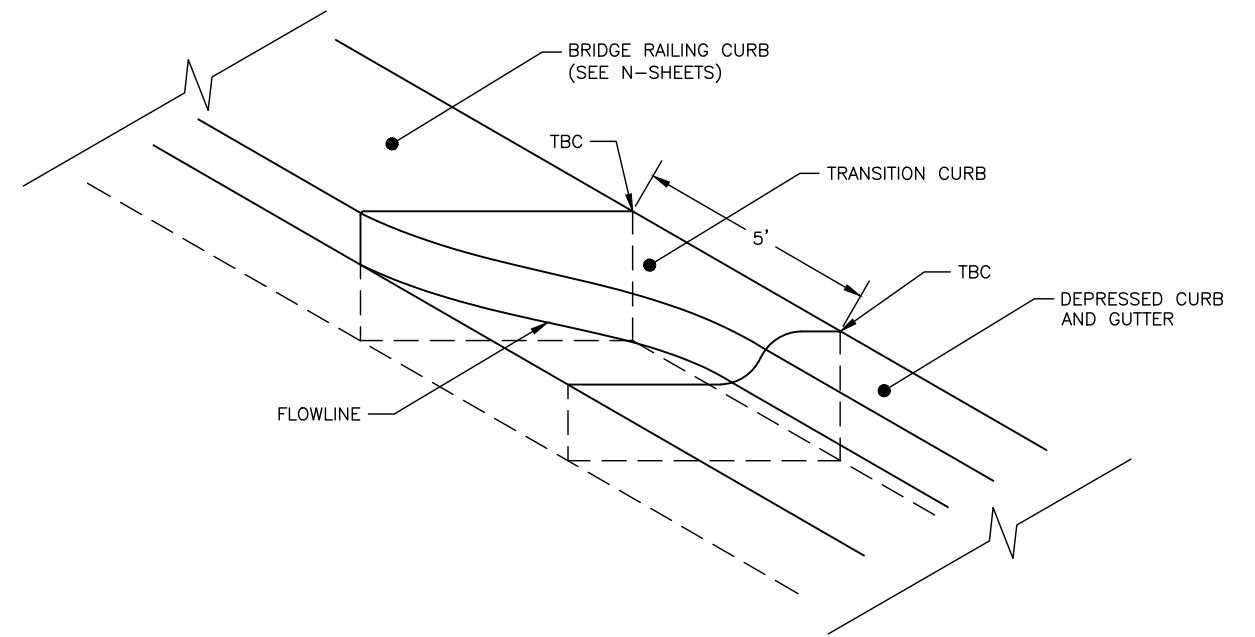
2
E1 DEPRESSED CURB & GUTTER — NTS



3
E1 FLAT GUTTER — NTS



4
E1 TRANSITION CURB — PLAN VIEW — NTS



5
E1 TRANSITION CURB — ISOMETRIC VIEW — NTS

NOTES:

1. GUTTER SHALL HAVE A MINIMUM CROSS-SLOPE OF 2% INTO CURB. EXCEPT WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS-SLOPE OF THE GUTTER SHALL MATCH THE CROSS-SLOPE OF THE ADJACENT PAVEMENT.
2. ALL CURBS THAT ARE DRIVABLE SHALL HAVE REBAR REINFORCEMENT.

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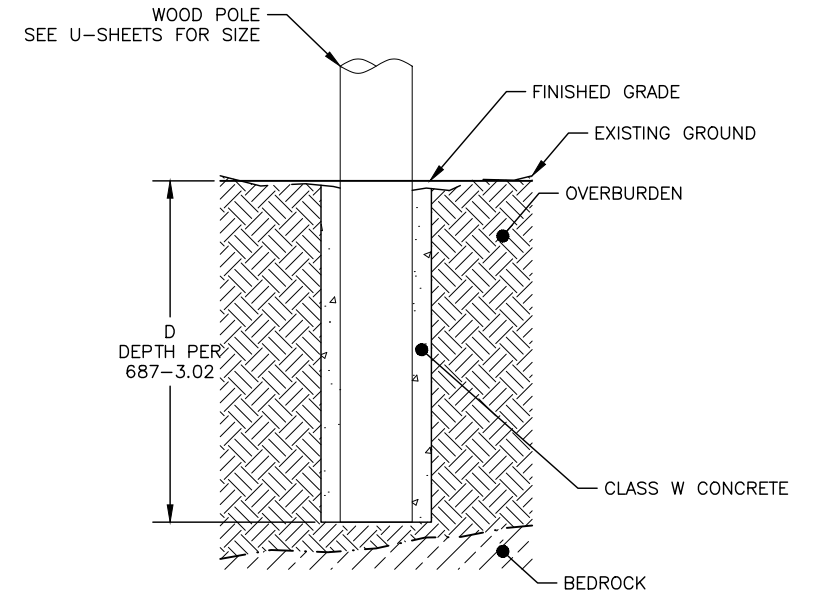
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KTN: SAYLES/GORGE ST. VIADUCT
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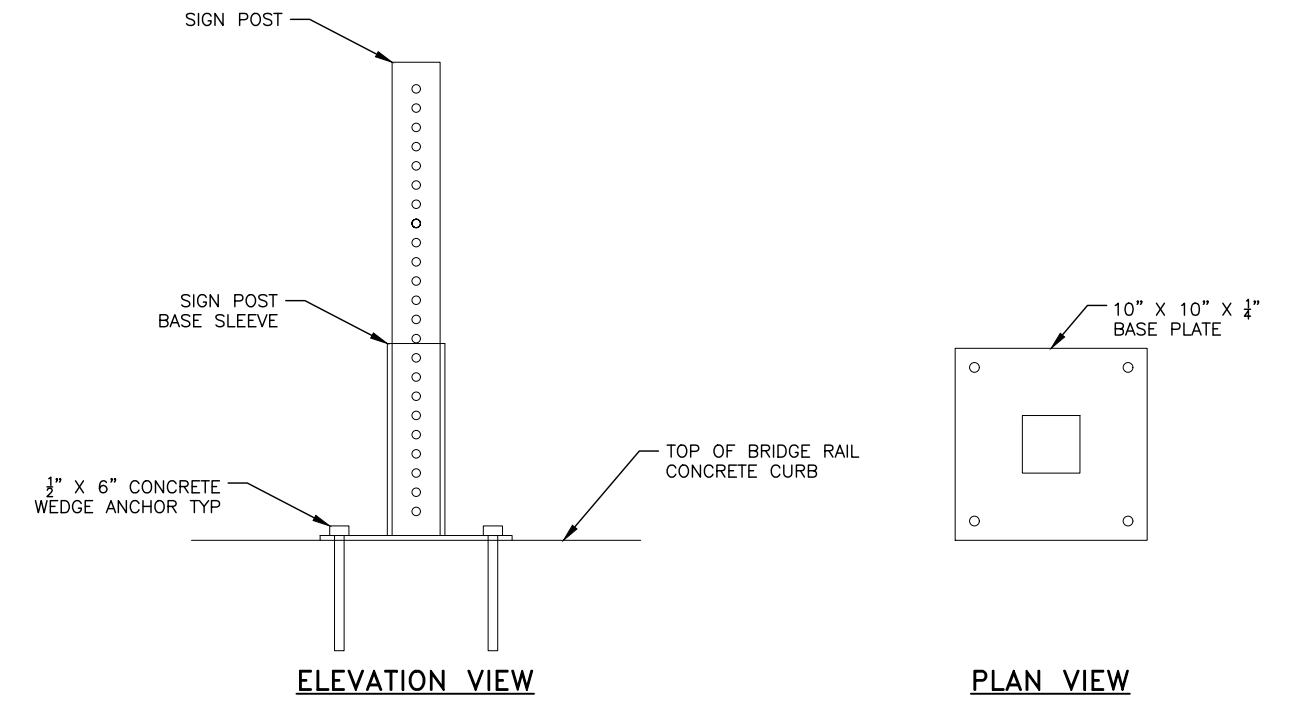
CURB AND GUTTER DETAILS

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 DATE 9/18/23 LAYOUT E2 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

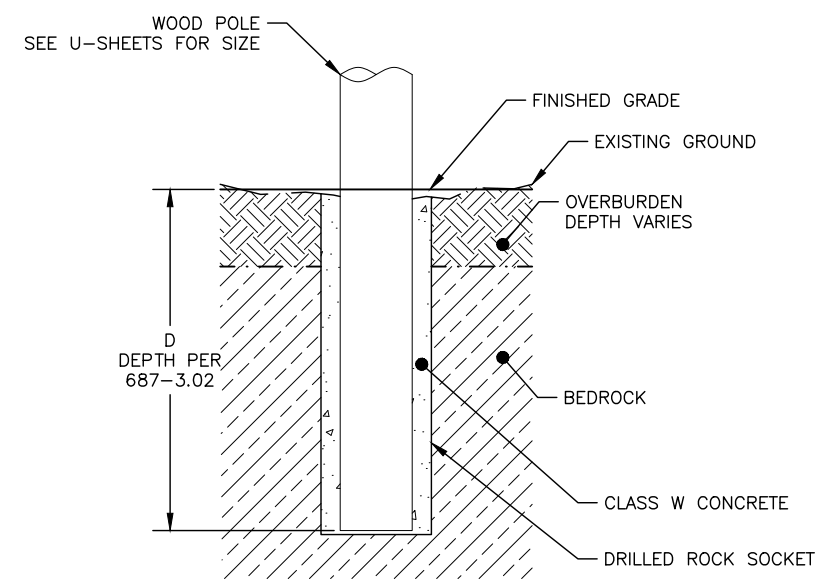
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	E2	E11



1 FOUNDATION CASE 1 - UTILITY POLE IN SOIL NTS
E2



2 BASE MOUNTED SIGN ATTACHMENT NTS
E2



3 FOUNDATION CASE 2 - DRILLED ROCK SOCKET NTS
E2

POLE FOUNDATION AND INSTALLATION NOTES:

1. THE CONTRACTOR SHALL HAVE ALL THE EQUIPMENT, MATERIALS AND LABOR TO CONSTRUCT THE NEW POLE FOUNDATION TO THE EMBEDMENT DEPTH DESCRIBED IN SUBSECTION 687-3.02. CONTRACTOR SHALL FIELD DETERMINE FOUNDATION CASE TO BE CONSTRUCTED BASED ON DEPTH FROM FINISHED GRADE TO BEDROCK.

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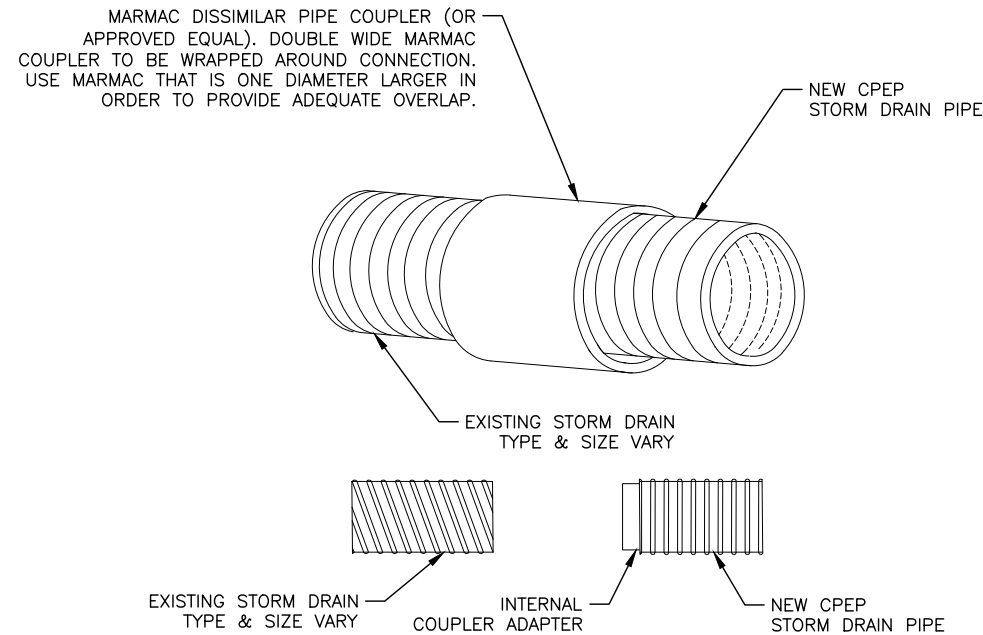
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 (1841) IMPROVEMENTS

POLE FOUNDATION DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	E3	E11

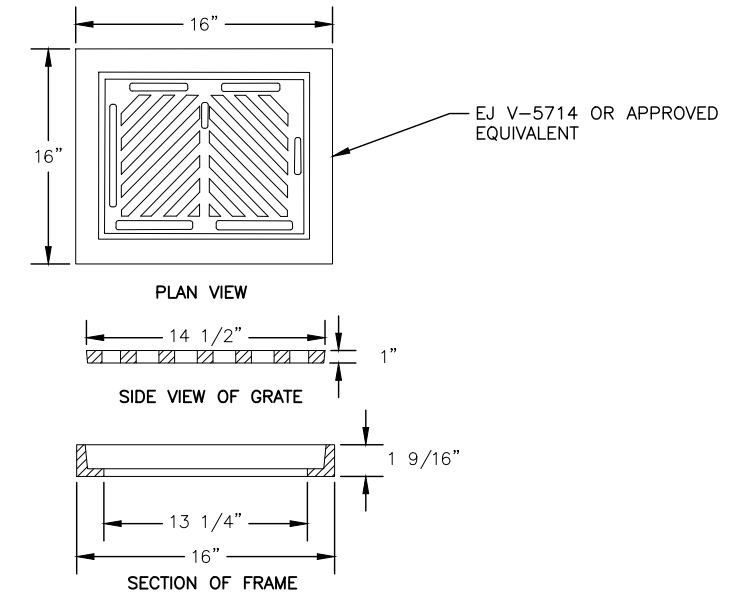
FILE Z:\projects\0800_00_001_00_00_000\0800_001\11\0800_001\0800_001\0800_001.dwg DATE 9/18/23 LAYOUT E3 CHECKED JLO DESIGNED JMH DRAFTED AJB, JTH



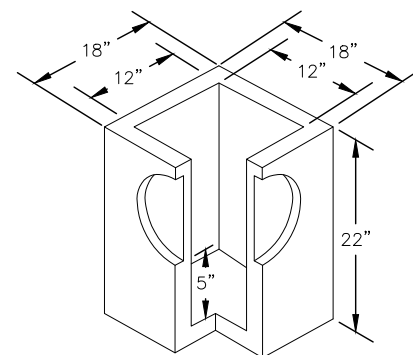
1
E3 **NEW TO EXISTING STORM DRAIN CONNECTION** NTS

NOTES:

1. INSTALL COUPLER IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



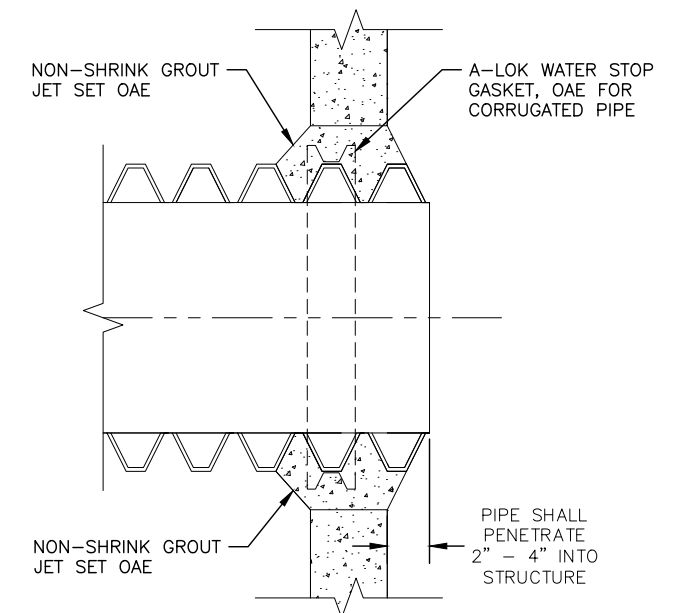
2
E3 **FLAT GRATE AND FRAME ASSEMBLY** NTS



3
E3 **INLET, TYPE D** NTS

INLET, TYPE D NOTES:

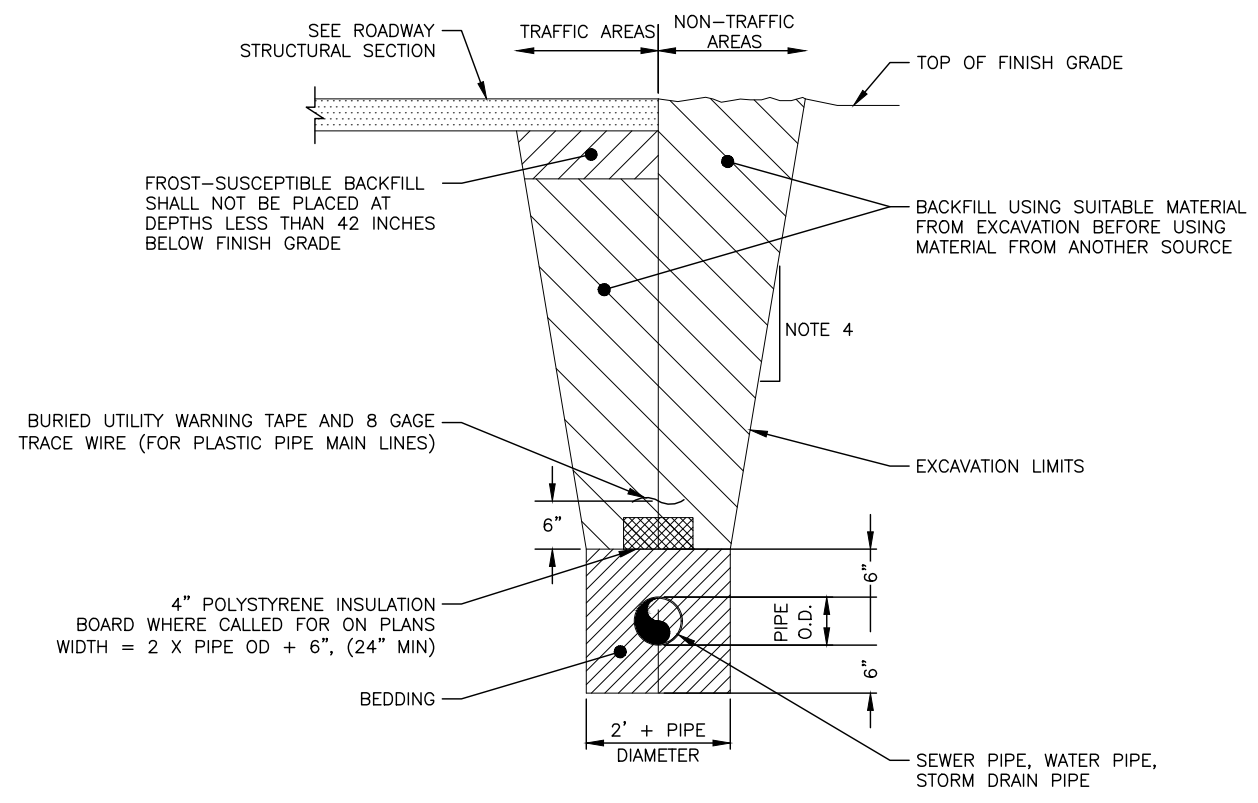
1. INLET HAS 10" KNOCKOUTS ON FOUR SIDES TO ACCOMMODATE 6" PIPE SIZE.
2. EXTENSION RISERS AVAILABLE IN 6" AND 12" HEIGHTS.
3. GROUT INLET, OUTLET, AND PICK HOLE PENETRATIONS WITH "JET-SET" OR OTHER APPROVED NON-SHRINK GROUT.
4. INLET SHALL BE SET ON A MINIMUM OF 6" THICK BEDDING THAT IS LEVEL, AND COMPACTED TO 95%, AND ORIENTED TO THE AXIS OF THE ROAD. OFF-AXIS OR OFF-LEVEL INLETS SHALL BE REMOVED AND ADJUSTED BEFORE BACKFILLING.
5. INLETS SHALL BE BACKFILLED WITH A MINIMUM OF 6 INCHES OF BEDDING PLACED IN MAXIMUM LIFTS OF 6" AND COMPACTED TO 95% OF DRY DENSITY.
6. CONTRACTOR SHALL REMOVE KNOCKOUTS AS PER MANUFACTURERS RECOMMENDATIONS. DAMAGE INCURRED TO THE STRUCTURE DURING KNOCKOUT REMOVAL SHALL BE EVALUATED BY THE ENGINEER TO DETERMINE WHETHER INTEGRITY OF STRUCTURE HAS BEEN COMPROMISED. STRUCTURES DAMAGED BY THE CONTRACTOR AND DEEMED UN-USABLE BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
7. CONNECT ALL PIPES IN CONFORMANCE WITH "WATERTIGHT STRUCTURE CONNECTION" DETAIL



4
E3 **WATERTIGHT STRUCTURE CONNECTION** NTS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	E4	E11



UTILITY TRENCH SECTION NOTES:

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS.
2. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT THE CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
3. TRENCH SECTION APPLICABLE FOR SEWER, WATER, AND STORM PIPE.
4. SLOPE OF TRENCH WALL TO BE DETERMINED BY CONTRACTOR, MEETING ALL APPLICABLE SAFETY REQUIREMENTS.
5. INSULATION BOARD JOINTS SHALL BE INSTALLED WITH STAGGERED JOINTS. JOINTS SHALL BE OVERLAPPED 1 FOOT.

1
E4 **TYPICAL BURIED WET UTILITY TRENCH SECTION** NTS

FILE Z:\projects\2023-20 20132-174-1816-01\174-1816-01\174-1816-01\174-1816-01\174-1816-01\174-1816-01\174-1816-01\174-1816-01\174-1816-01\174-1816-01.dwg 9/18/23 LAYOUT E4 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

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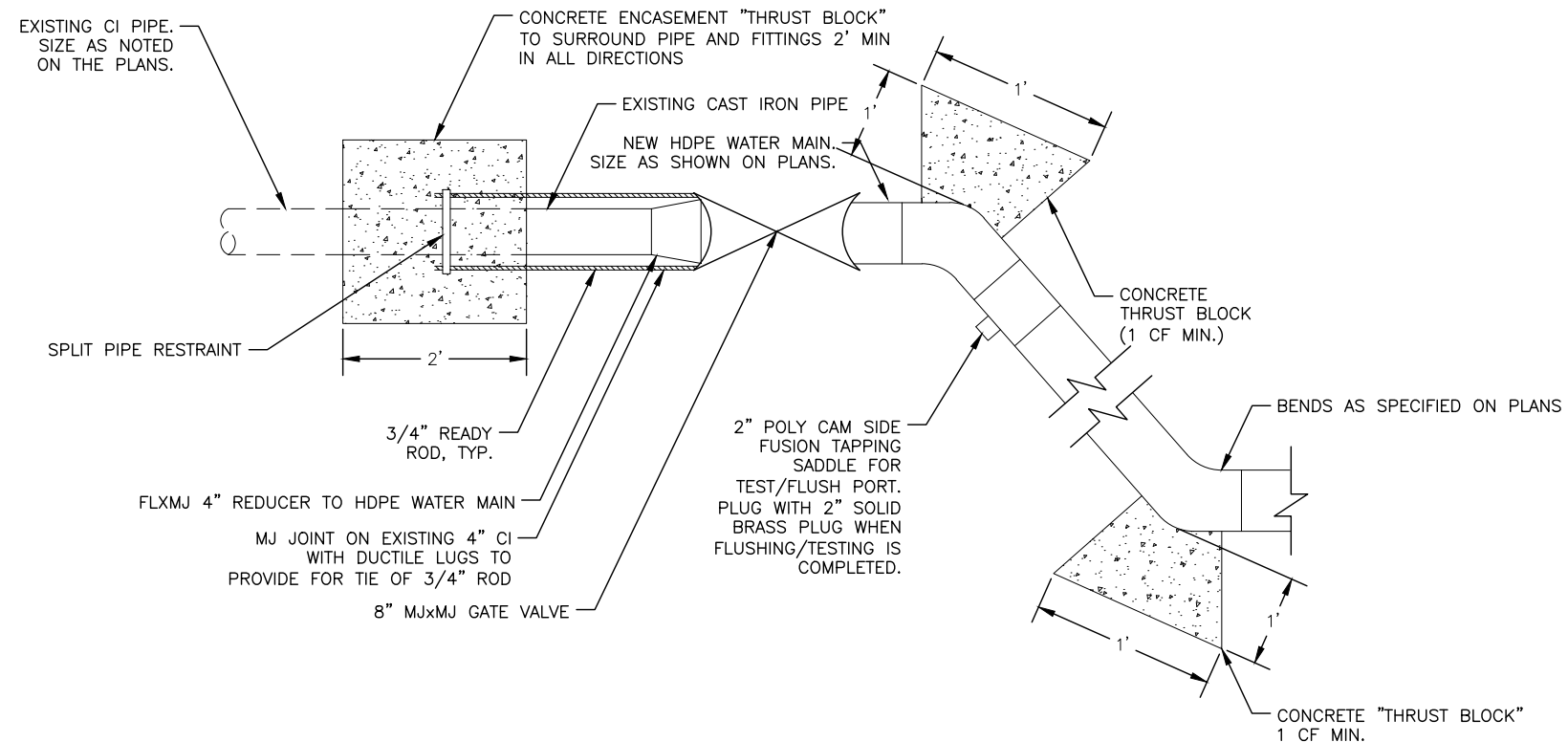
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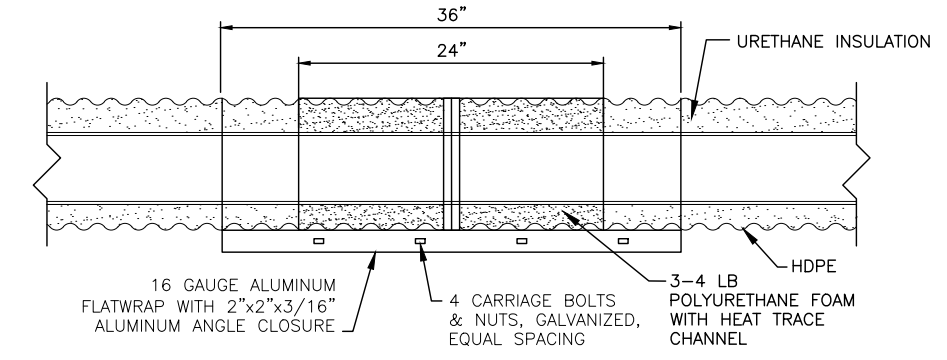
TRENCHING DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	E5	E11

FILE | Z:\projects\0800_00_001_02_01N_Miller_Street_Viaduct_Design_Series\1000\11\0000\001\0000\001\0000\001.dwg | DATE | 9/18/23 | LAYOUT | E5 | DESIGNED | JMH | CHECKED | JLO | DRAFTED | AJB, JTH

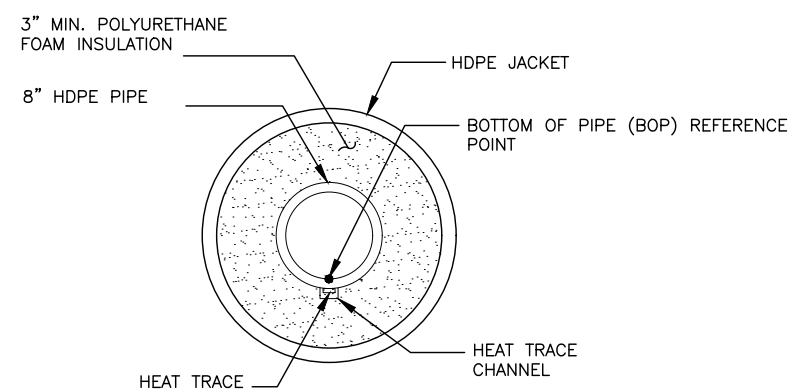


1 CONNECTION TO EXISTING WATER MAIN NTS
E5



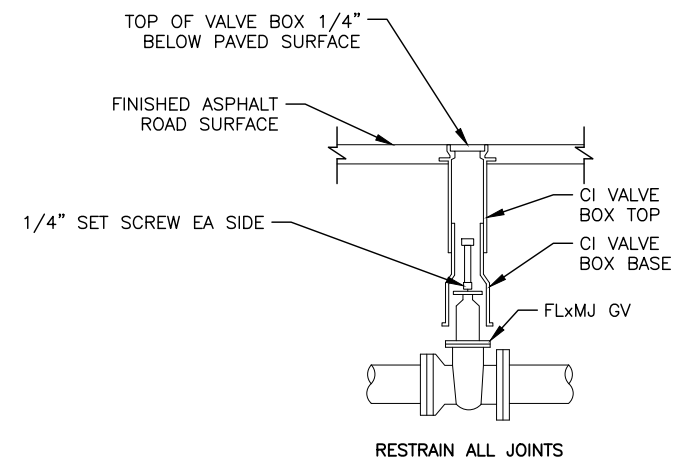
NOTE:
JOINT KIT FOR HDPE WATER LINE WITH 12" CUTBACK ON THE PIPE.

2 INSULATED WATER MAIN JOINT NTS
E5



WATER PIPE NOTES:
HEAT TRACING CABLE TO BE 5W/FT SELF REGULATING CHROMALUX SRL 5-1CT WITH FLOUROPOLYMER COATING. MOUNT BOX FOR END SEAL KIT ON 4"x4" AS SHOWN. SEE ELECTRICAL DRAWINGS FOR MORE DETAILS.

3 INSULATED HDPE WATER MAIN SECTION NTS
E5



BURIED VALVE NOTES:

1. NEW VALVE BOX TO ALLOW FOR 12" MINIMUM VERTICAL ADJUSTMENT
2. THREADED VALVE BOX SECTIONS ARE NOT ALLOWED. CONTRACTOR SHALL REMOVE THREADED PORTIONS OF THE VALVE BOX WITH CUT-OFF SAW.
3. CONTRACTOR SHALL APPLY GREASE TO ALL INTERFACES BETWEEN VALVE BOX SECTIONS.
4. COMPACTION AROUND VALVE BOX INSTALLATION IS CRITICAL. CONTRACTOR SHALL EMPLOY MECHANICAL TAMPING METHODS TO ENSURE THAT MATERIAL AROUND VALVE BOX REACHES 95% OF MAXIMUM DENSITY.
5. CONTRACTOR SHALL INSTALL A 6" MINIMUM THICKNESS OF BEDDING AROUND VALVE BOX DURING BACKFILL.
6. EXTENSION IS REQUIRED ON ALL VALVES WHERE OPERATING NUT IS 6' OR MORE BELOW FINISHED SURFACE.

4 TYPICAL BURIED MAIN LINE VALVE WITH OPERATING ROD NTS
E5

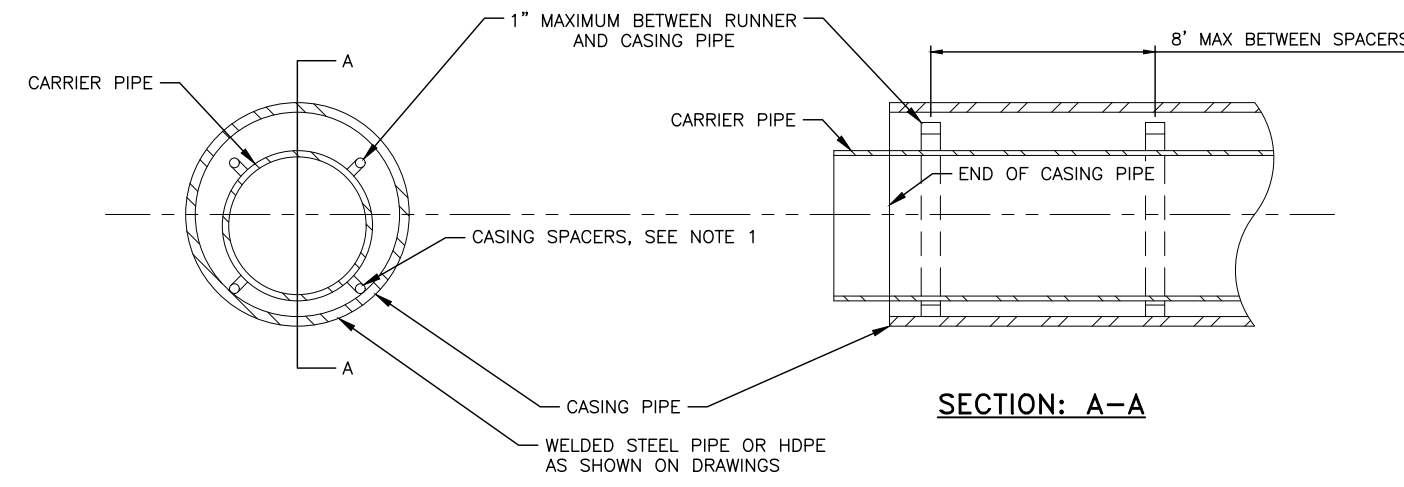
PLANS DEVELOPED BY:
R&M Consultants, Inc.
9101 Vanguard Drive
Anchorage, Alaska 99507
907 522-1707 voice
907 522-3404 fax
www.rmconsult.com
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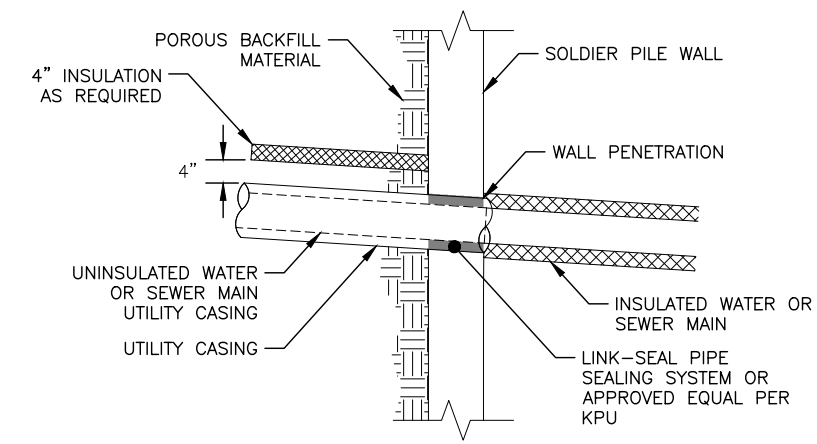
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	E6	E11



1 PIPE CASING
E6 NTS



2 INSULATED PIPE BRIDGE PENETRATION DETAIL
E6 NTS

NOTES:

1. INSTALL CASING SPACERS A MAXIMUM OF ONE FOOT (1') FROM EACH SIDE OF EACH PIPE JOINT. CASING SPACERS SHALL BE CASCADE WATERWORKS MFG. STAINLESS STEEL WITH POLYETHYLENE RUNNERS OR APPROVED EQUAL, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. ENDS OF CASING PIPE SHALL BE SEALED WITH SYNTHETIC RUBBER SEAL WITH STAINLESS STEEL BANDS. CASING SHALL BE WATERTIGHT.
3. CARRIER PIPE SHALL BE CONSTRUCTED WITH RESTRAINED JOINTS INSTALLED ENTIRE LENGTH OF CASING PIPE AND AT CONNECTIONS BETWEEN EXISTING AND NEW PIPE.
4. PERFORM LAMP TESTINGS TO VERIFY PROPER CASING ALIGNMENT AFTER CASING PIPE IS BACKFILLED A MINIMUM OF 2 FEET AND PRIOR TO CARRIER PIPE INSTALLATION.
5. PLACE INSULATION BOARD W/ BURIED UTILITY WARNING TAPE ABOVE AS REQUIRED.

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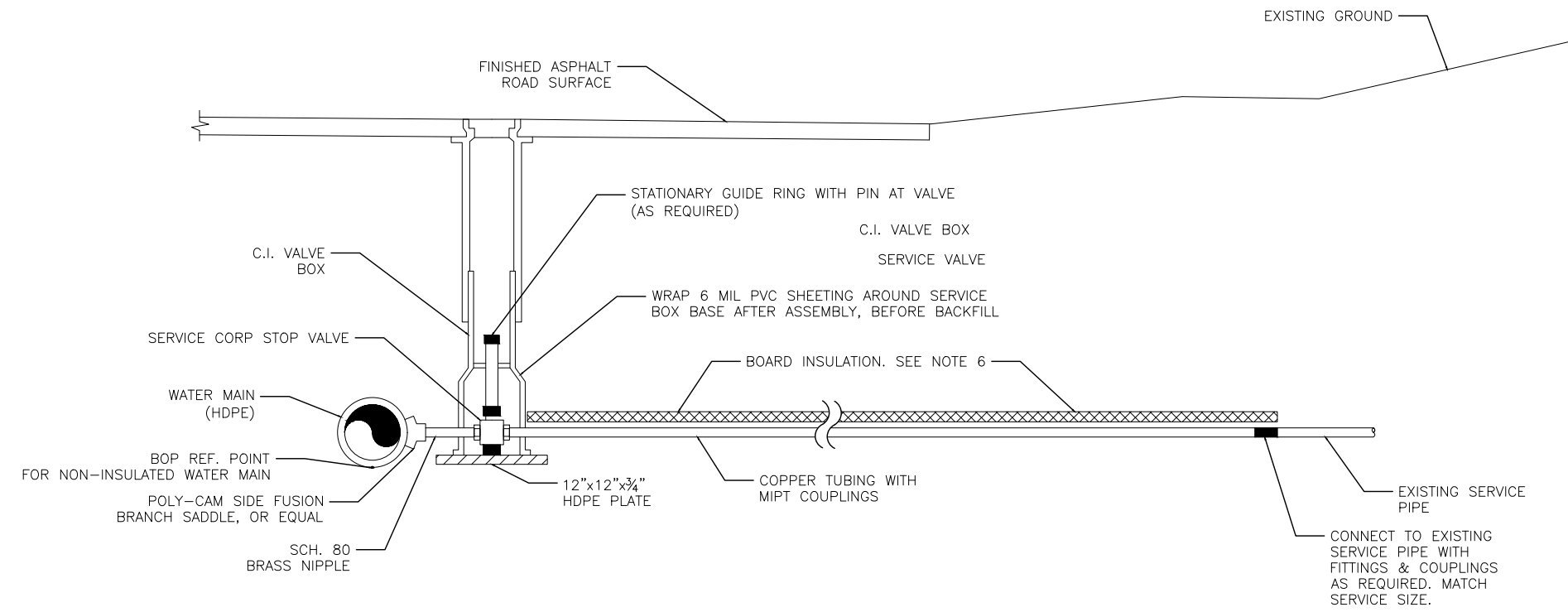


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KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS
WALL PENETRATION AND UTILITY CASING
DETAILS

FILE Z:\projects\0806_00_001_02_01N_Milest_Street_Treatment_and_Gorge_St_Viaduct_Detail\01\11\08060001\01\08060001.dwg
 DATE 9/18/23 LAYOUT E6 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

FILE | Z:\projects\2020-20 201-20 174 Water Street | Details | Design | 9/18/23 | LAYOUT | E7 | DESIGNED | JMH | CHECKED | JLO | DRAFTED | AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	E7	E11



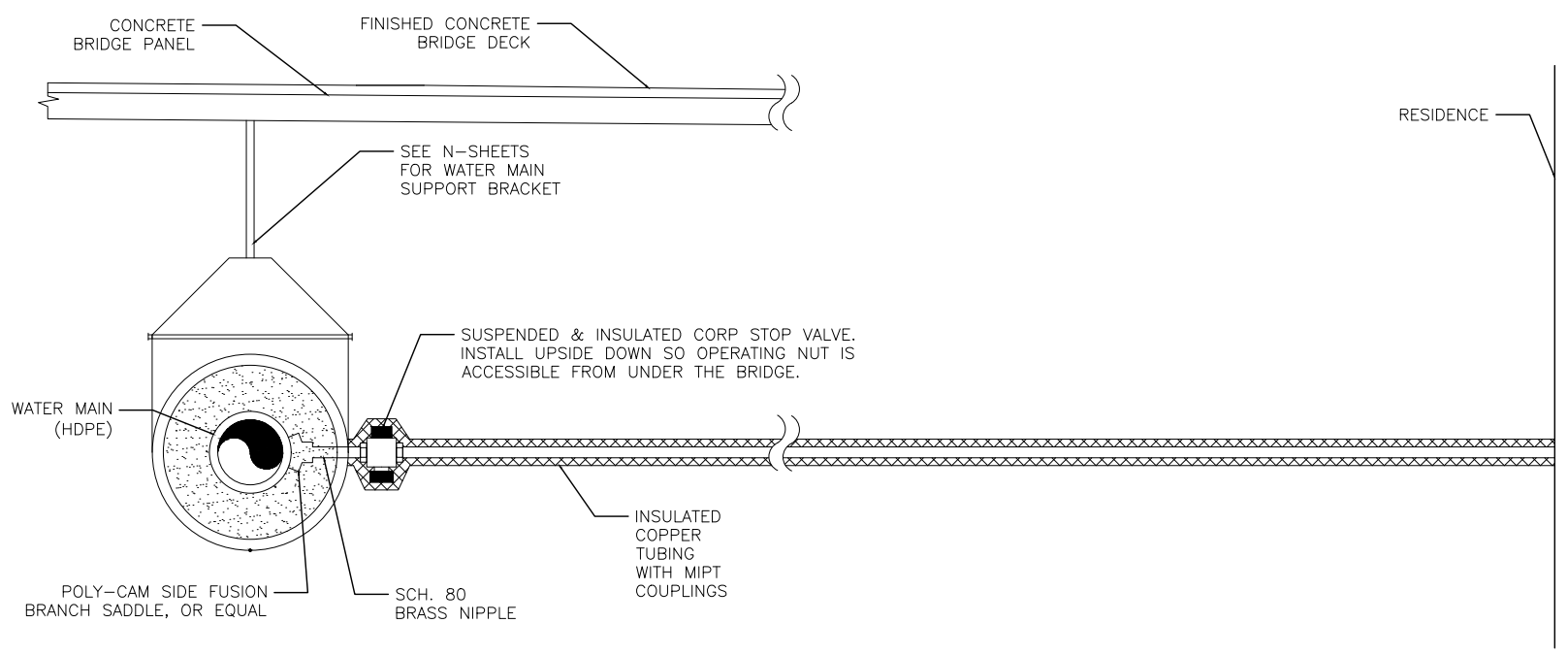
BURIED WATER SERVICE NOTES:

1. INSTALL TOP OF VALVE BOX AS SHOWN 1/4" BELOW PAVED SURFACE.
2. ALLOW 12" FOR RAISING VALVE BOX. GREASE THE OVERLAPPING PORTION.
3. ENLARGED BASE IS REQUIRED FOR 1" SERVICES AND LARGER.
4. A SERVICE VALVE ROD EXTENSION IS REQUIRED ON ALL SERVICE VALVES 6' OR MORE BELOW FINISHED GRADE.
5. EXTEND SERVICE PAST SERVICE VALVE AS REQUIRED TO ESTABLISH SERVICE OR AS INDICATED ON THE PLANS.
6. PLACE INSULATION BOARD W/ BURIED UTILITY WARNING TAPE ABOVE AS REQUIRED.

1 BURIED WATER SERVICE DETAIL
E7 NTS

SUSPENDED WATER SERVICE NOTES:

1. WHERE SERVICE EXTENSION IS ABOVE GROUND, PIPE SHALL BE INSULATED WITH 2" OF FOAM INSULATION WITH PROTECTIVE COATING.



2 SUSPENDED WATER SERVICE DETAIL
E7 NTS

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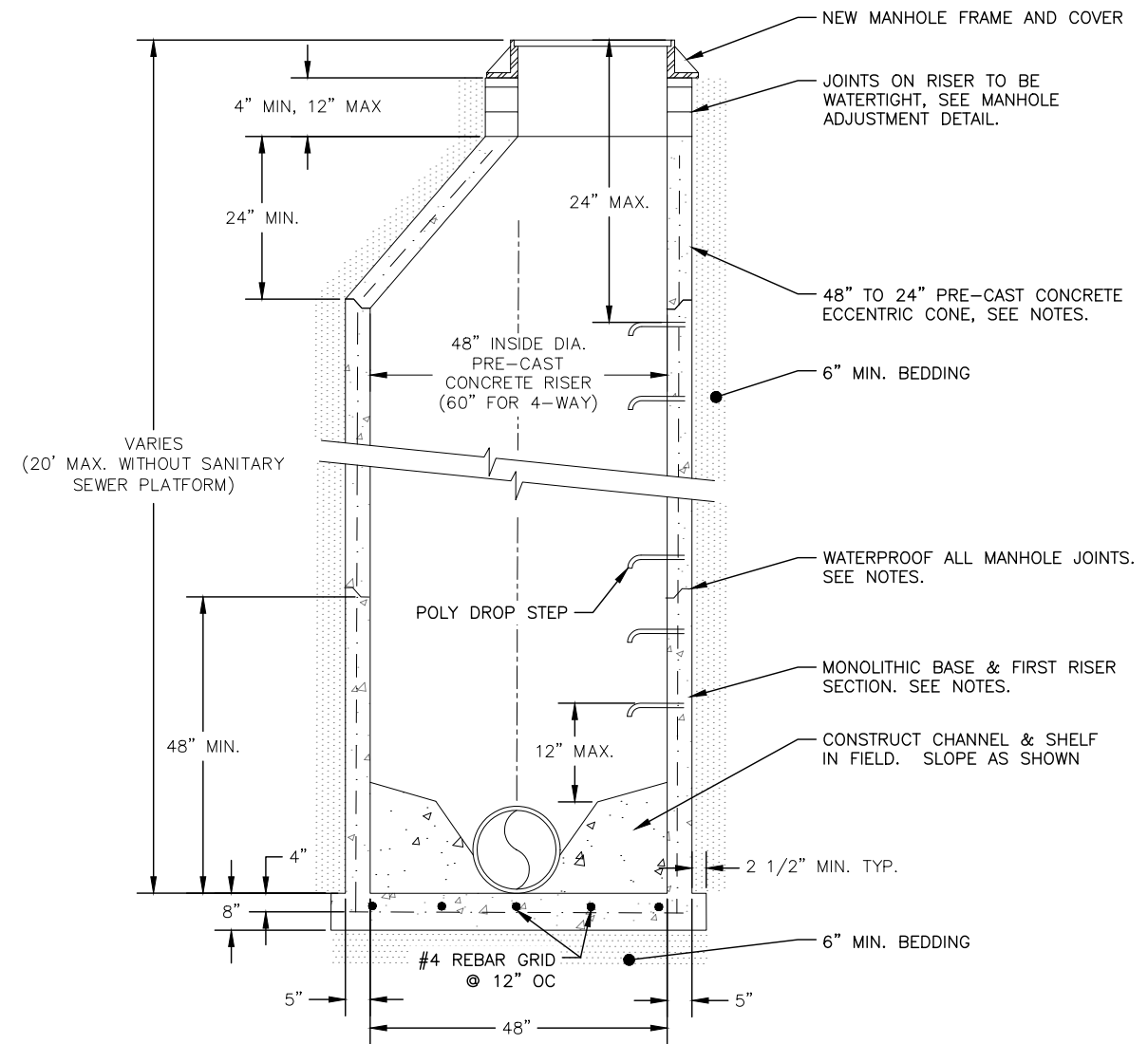
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(1841) IMPROVEMENTS

WATER SERVICE DETAILS

FILE E:\projects\2020\00 20152 ST. VIADUCT\2020\00 20152 SANITARY SEWER MANHOLE DETAILS.dwg
 DATE 9/18/23 LAYOUT E8 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	E8	E11

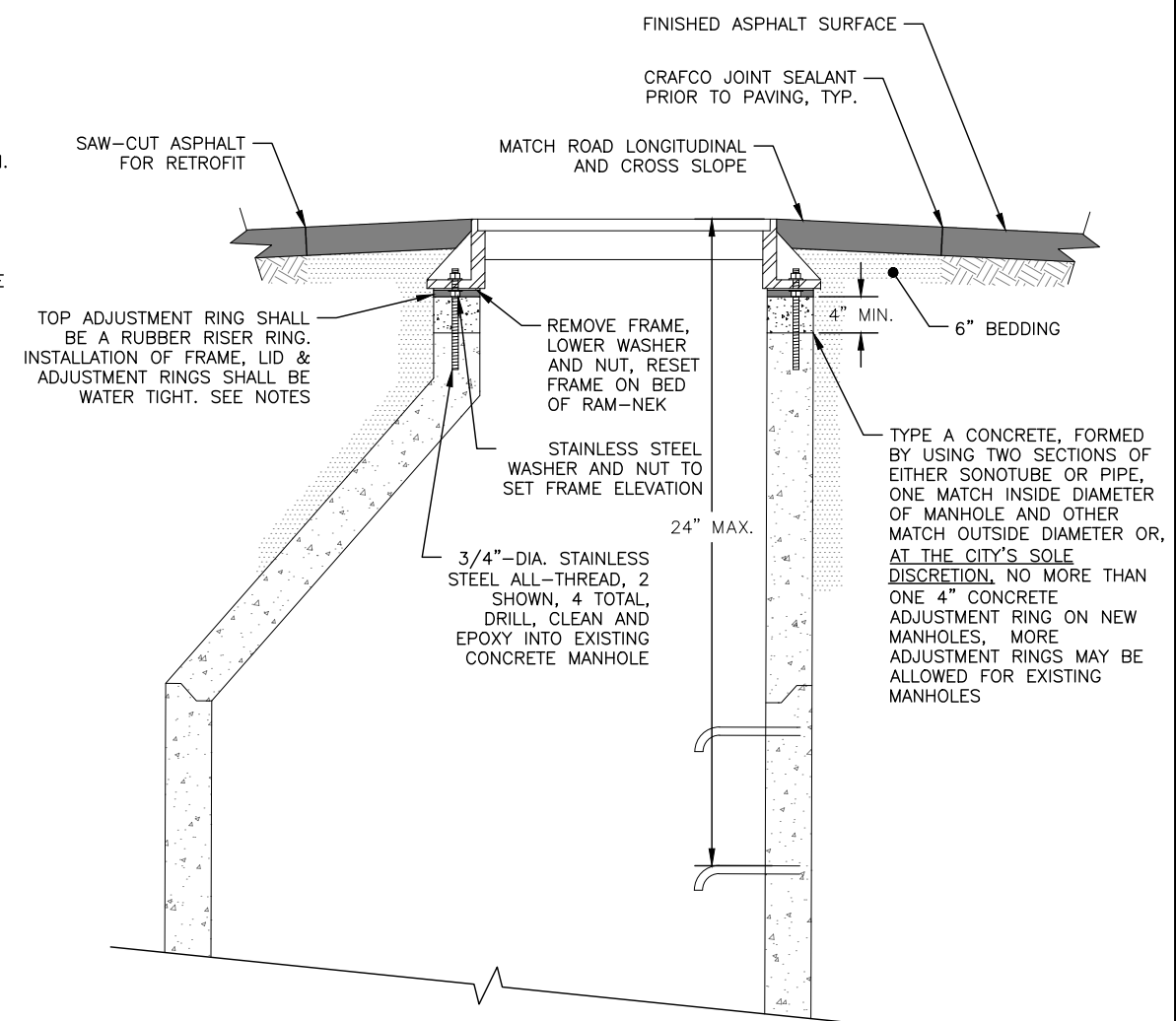


SANITARY SEWER MANHOLE NOTES:

- ALL MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478, LATEST EDITION, INCLUDING MINIMUM STEEL REQUIREMENTS. THE BASE SECTION SHALL BE A 4' TALL UNIT AND STEEL SHALL BE EMBEDDED IN BASE SO THAT FIRST RISER SECTION IS CONNECTED TO BASE.
- CHANNEL DEPTH SHALL BE EQUAL TO THE PIPE DIAMETER OR GREATER. CHANNEL AND SHELF SHALL HAVE A SMOOTH FINISH.
- SEAL MANHOLE AT PIPE CONNECTIONS WITH WATERTIGHT Z-LOCK MANHOLE CONNECTOR WITH STAINLESS STEEL CLAMP. SEE DETAIL.
- WHEN MANHOLE HEIGHT IS LESS THAN 7', REPLACE CONCRETE CONE SECTION WITH PRE-CAST REDUCING SLAB.
- FRAME AND LID SHALL BE ADJUSTED AS NECESSARY TO BE 1/4" BELOW THE RESTORED SURFACE AND MATCH EXISTING ROAD AND SLOPE.
- INSTALLATION OF FRAME, LID, ADJUSTMENT RINGS, ONTO THE PRE-CAST STRUCTURE SHALL BE WATER-TIGHT USING A POLYURETHANE SEALANT ON BOTTOM AND TOP OF EVERY RISER.
- NEW MANHOLE FRAME AND COVER SHALL NOT BE DIAMOND-CUT. THE MANHOLE SHALL BE PAVED THROUGH.
- ALL MANHOLE JOINTS SHALL BE WATERPROOFED USING A DOUBLE LAYER OF RAM-NEK, OR EQUAL. THE EXTERIOR OF ALL JOINTS SHALL BE SEALED WITH CCW-715 ADHESIVE AND CCW-861 MIRA-DRI SYSTEM 18" EACH SIDE OF JOINT.
- STRUCTURE SHALL BE BACKFILLED WITH 6" SELECTED MATERIAL, TYPE A.
- STEPS SHALL NOT BE ABOVE FLOW CHANNEL AND PLACED A MAXIMUM OF 12" ABOVE SHELF. STEPS SHALL BE IN ALIGNMENT AND NOT OFFSET FROM EACH OTHER.

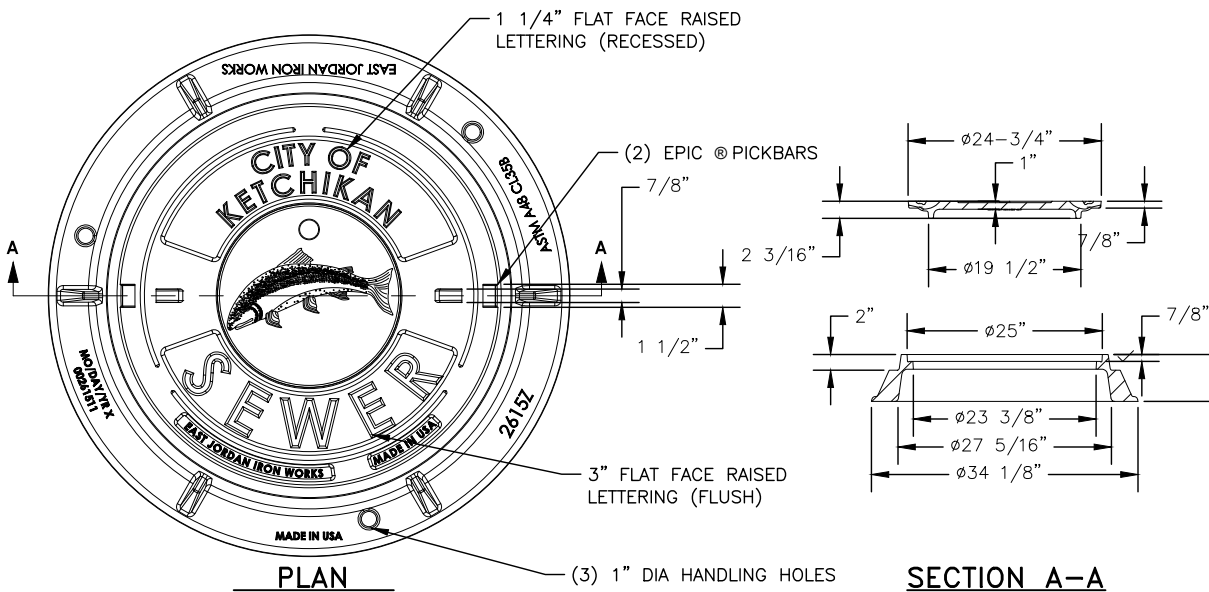
FRAME & COVER NOTES:

- MANHOLE FRAME AND COVER SHALL BE "EJIW 0026152W01" OR APPROVED EQUAL.
- COVER AND FRAME SHALL BE HEAVY DUTY AND RATED FOR H-20 LOADING. MINIMUM TOTAL WEIGHT SHALL BE 360 POUNDS. SEWER FRAME & COVERS SHALL BE "EON LOCK" BOLT DOWN COVERS.
- COVER AND SEALING GASKET FOR SEWER SHALL BE RUBBER GASKET RESULTING IN A SELF SEALING LID, OR APPROVED EQUAL.
- SEWER FRAMES SHALL BE MACHINED TO FIT WATERTIGHT COVER. SEWER COVERS SHALL HAVE THE WORDS "CITY OF KETCHIKAN SEWER" CAST IN, AND SHALL BE PROVIDED WITH AN INTEGRAL LIFT HANDLE.
- FRAME AND COVER DIMENSIONS SHALL BE IN ACCORDANCE WITH THE GUIDELINES INDICATED. VARIATIONS SHALL BE APPROVED BY THE ENGINEER.
- ALL FRAMES AND COVERS SHALL BE IDENTICAL FOR ALL MANHOLE INSTALLATIONS.



NOTES:

- MANHOLE SHALL BE INSTALLED AS PER PLANS.
- MANHOLE LID AND FRAME SHALL BE 1/4" BELOW FINAL FINISH GRADE AFTER PAVING.



2
E8 **MANHOLE ADJUSTMENT DETAIL** NTS

1
E8 **SANITARY SEWER MANHOLE, FRAME & COVER** NTS

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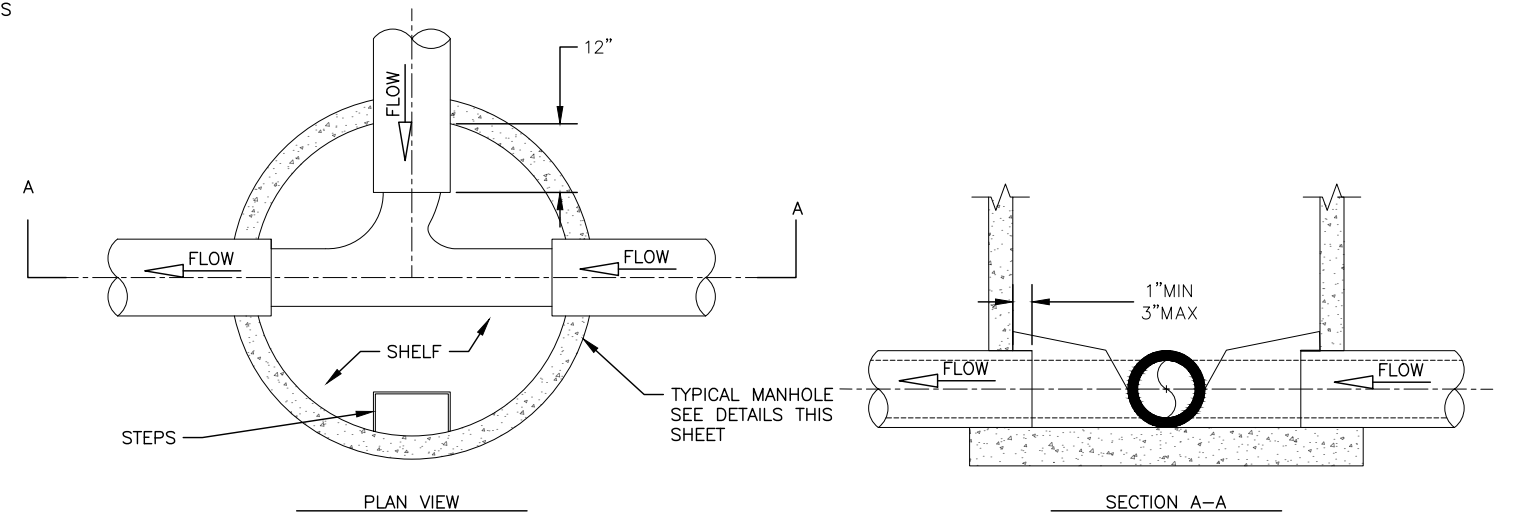
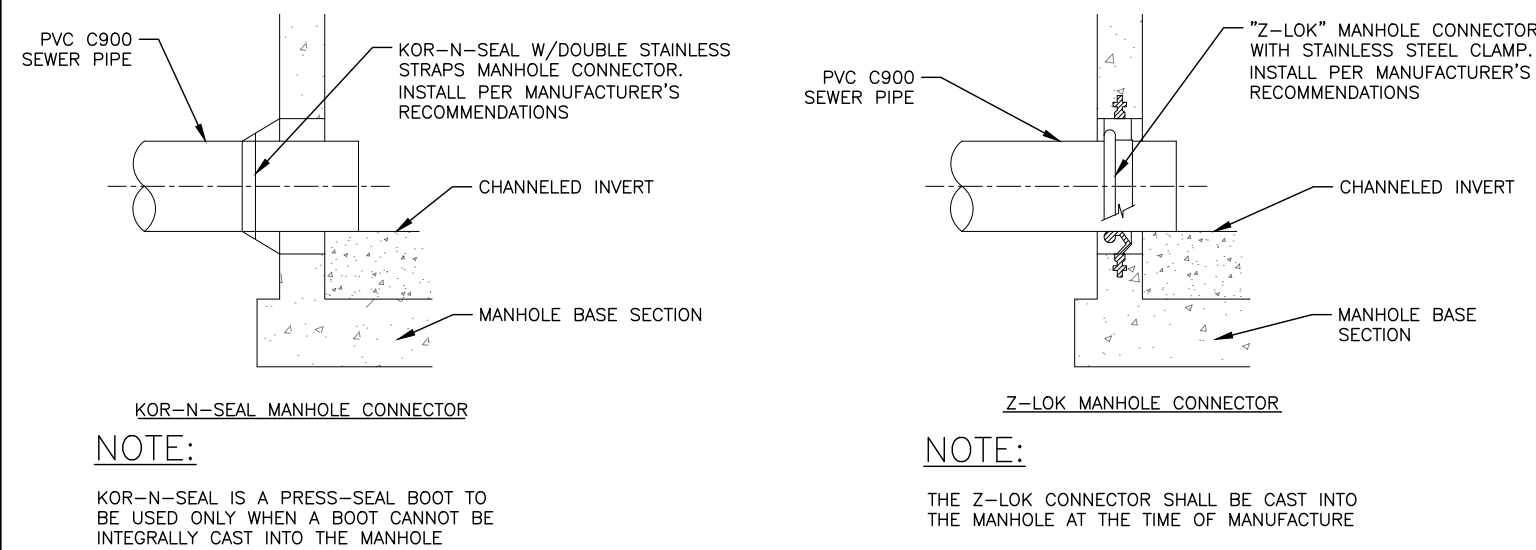
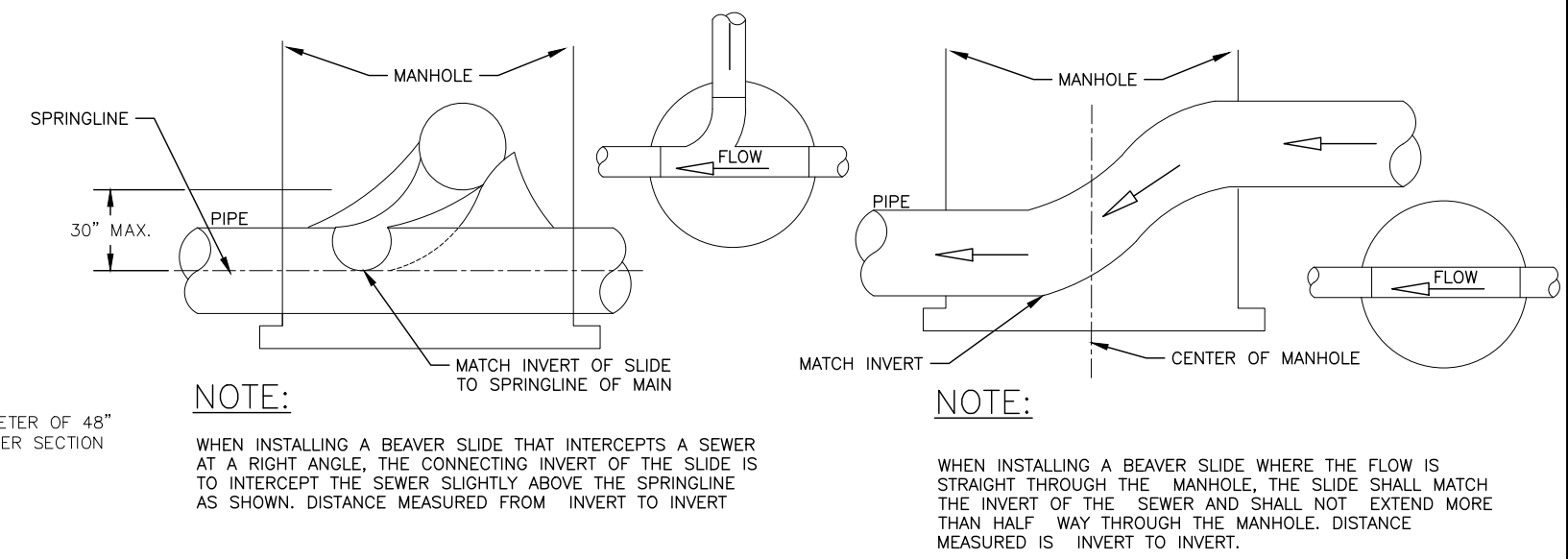
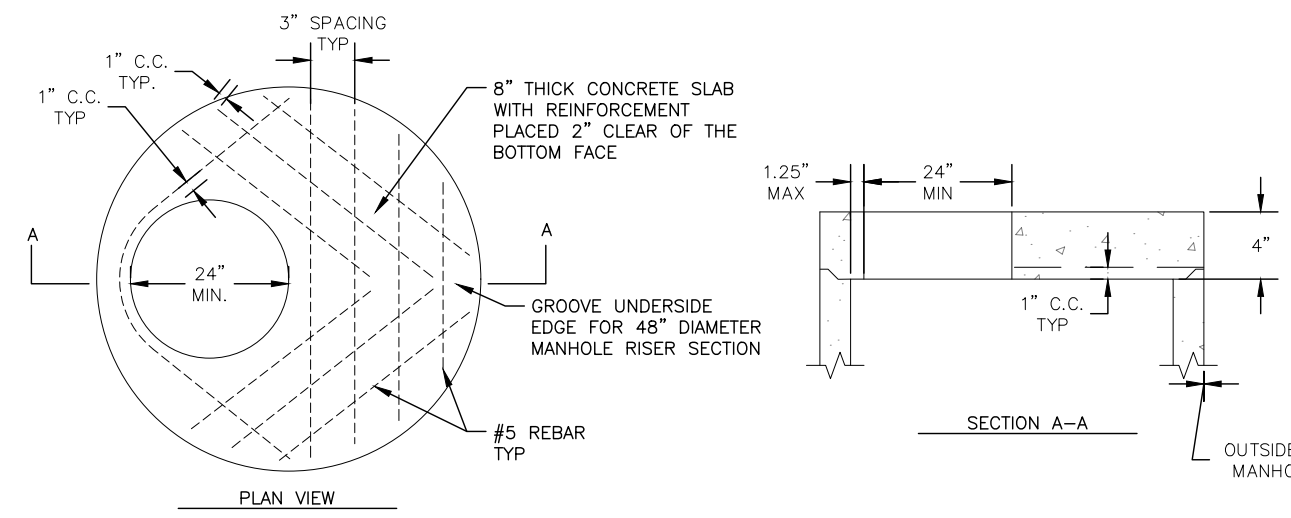


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KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	E9	E11



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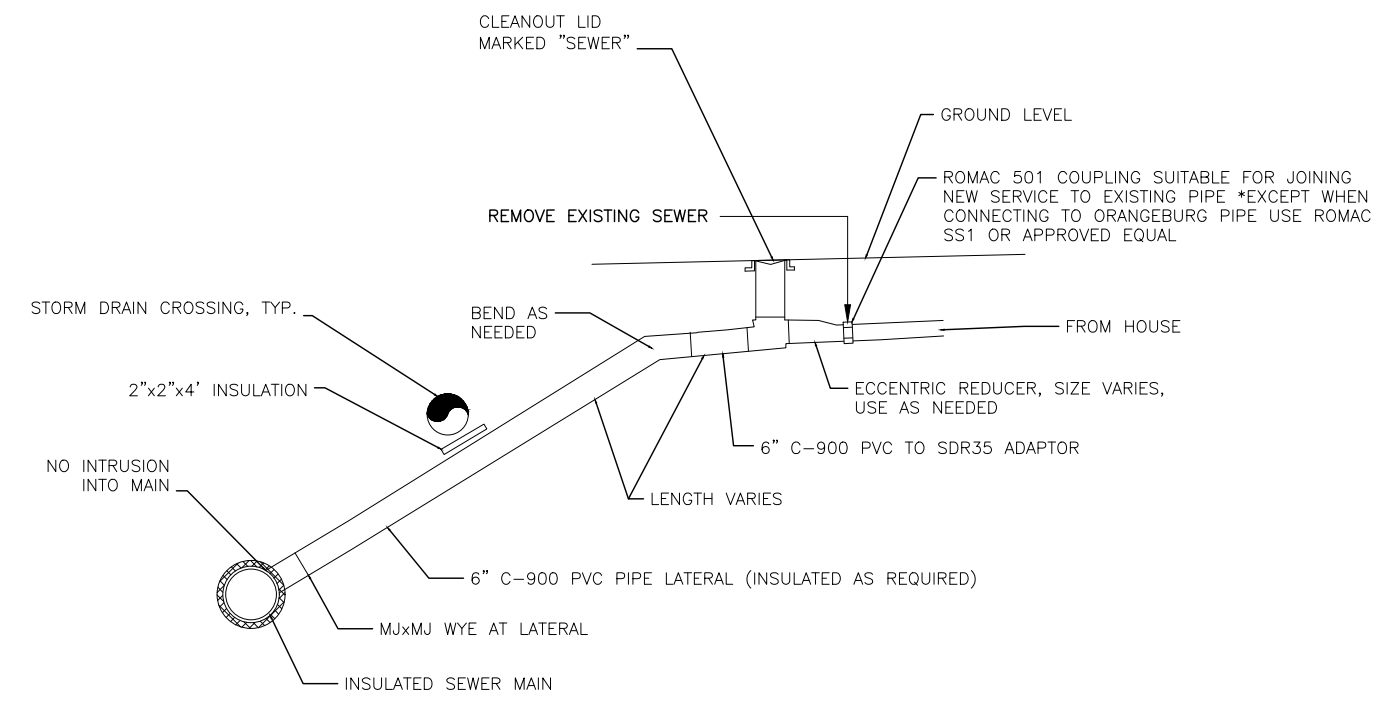
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KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS

SEWER MANHOLE DETAILS

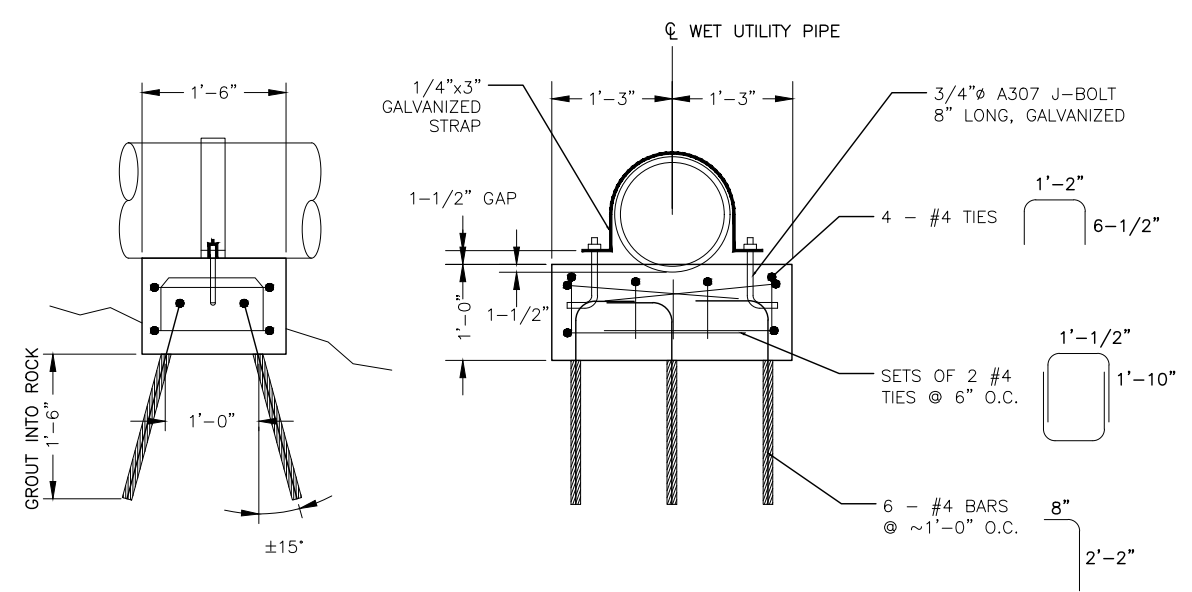
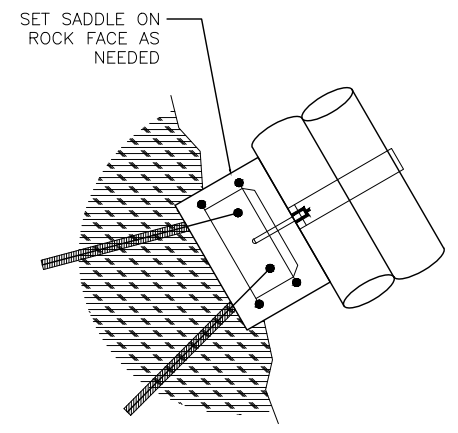
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	E10	E11



1 SEWER LATERAL SERVICE CONNECTION DETAIL
E10 NTS

- NOTES:**
1. MINIMUM SLOPE OF 0.02 FT/FT
 2. CONNECTIONS FROM ROOF DOWNSPOUTS, AREA DRAINS, ETC. ARE PROHIBITED.
 3. BURIED PIPE MUST BE LAID ON AND BEDDED WITH COMPACTED AND COMPETENT MATERIAL.
 4. MAX 3 FITTINGS ALLOWED PER SERVICE UNLESS APPROVED BY OWNER.



2 WET UTILITY PIPE SADDLE
E10 NTS

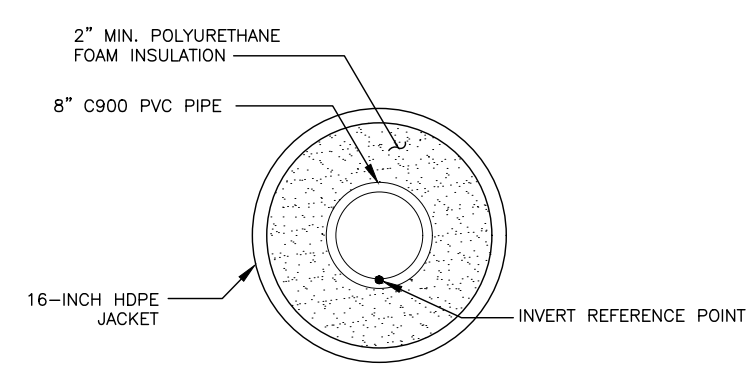
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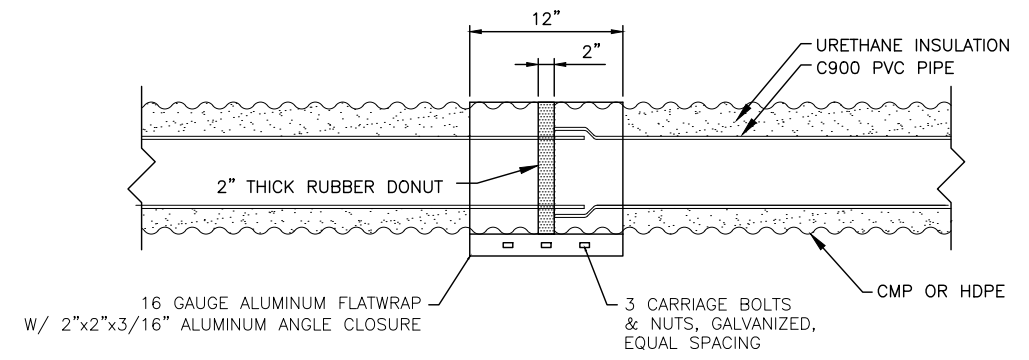
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	E11	E11

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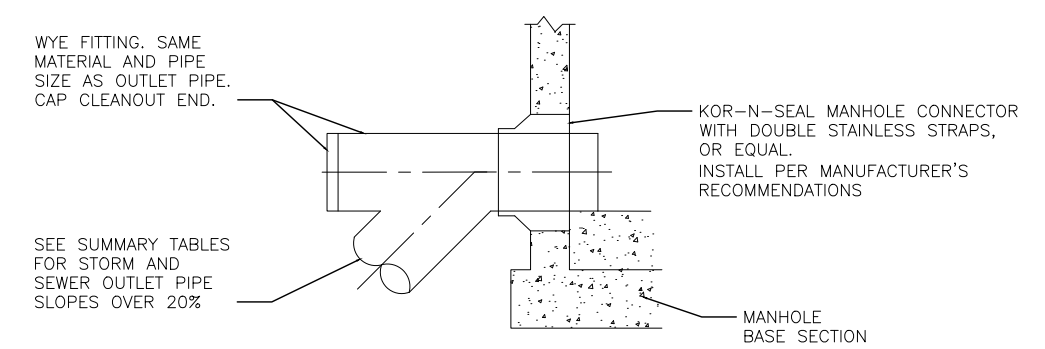


1 INSULATED C900 PVC SEWER MAIN SECTION
 E11 NTS

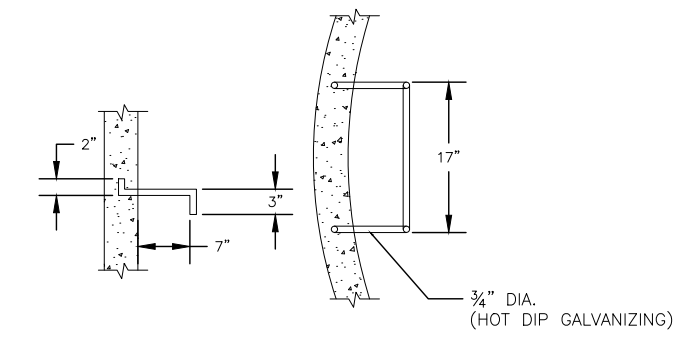


2 INSULATED SEWER PIPE JOINT
 E11 NTS

NOTE: JOINT KIT FOR C900 SEWER LINE WITH SLAB PLUS 1 3/4" CUTBACK ON THE PIPE.



3 MANHOLE PIPE CONNECTION FOR OUTLET PIPES WITH SLOPES GREATER THAN 20%
 E11 NTS



4 MANHOLE STEP
 E11 NTS

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MANHOLE & PIPE DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	F1	F3

BOP
STA "G" 5+60
BEGIN DEMO

DEMOLITION LEGEND

	REMOVAL OF OLD PILE - 202.0023.0000
	REMOVAL OF STRUCTURES AND OBSTRUCTIONS - 202.0001.0000
	REMOVAL OF PAVEMENT - 202.0002.0000
	REMOVAL OF BRIDGE NO. 1841 - 202.0023.0000
	REMOVAL OF CONCRETE BLOCKS - 202.0023.0000
	RESTORATION OF PRIVATE AND PUBLIC PROPERTY - 202.2040.0000
	REMOVAL OF EXISTING WATERLINE - 202.0001.0000 SEE NOTE 1
	REMOVAL OF EXISTING SANITARY SEWER - 202.0001.0000 SEE NOTE 1
	REMOVAL OF EXISTING STORM DRAIN - 202.0001.0000 SEE NOTE 1

DEMOLITION NOTES:

1. REMOVE EXISTING ROCK RETAINING WALL AS NECESSARY TO FACILITATE REMOVAL AND INSTALLATION OF WATER MAIN AND VALVES. REMOVAL WILL BE PAID FOR UNDER PAY ITEM 202.0001.0000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE U-SHEETS FOR MORE INFORMATION ON DEMOLITION OF WATER, SANITARY SEWER, AND STORM DRAIN.



LOOKING NE, DOWNSTATION, GORGE ST.



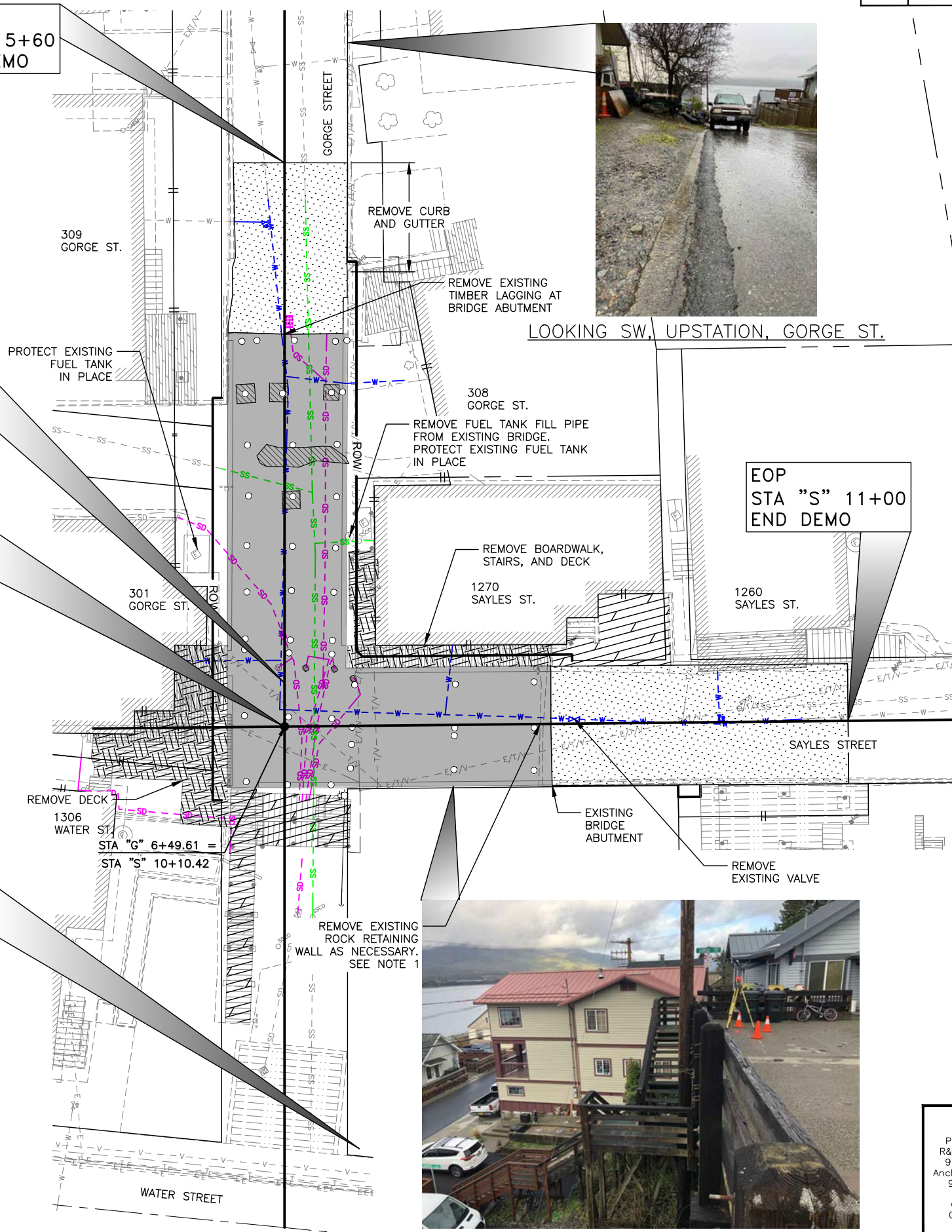
LOOKING SE, UPSTATION, SAYLES ST.



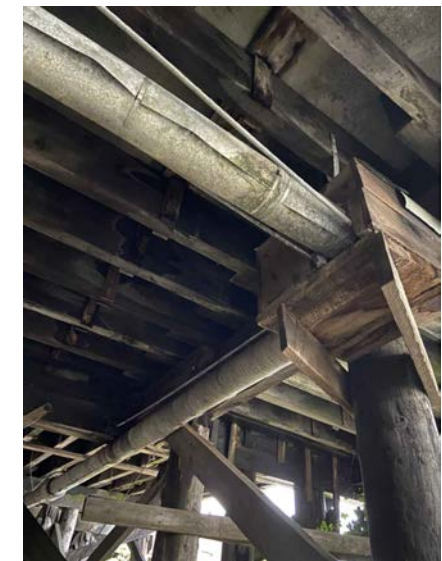
LOOKING N, STAIRCASE FROM WATER ST. TO SAYLES ST.



LOOKING N, STAIRCASE FROM SAYLES ST. TO WATER ST.



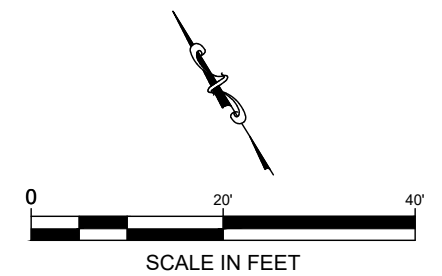
LOOKING SW, UPSTATION, GORGE ST.



UNDER BRIDGE



UNDER BRIDGE



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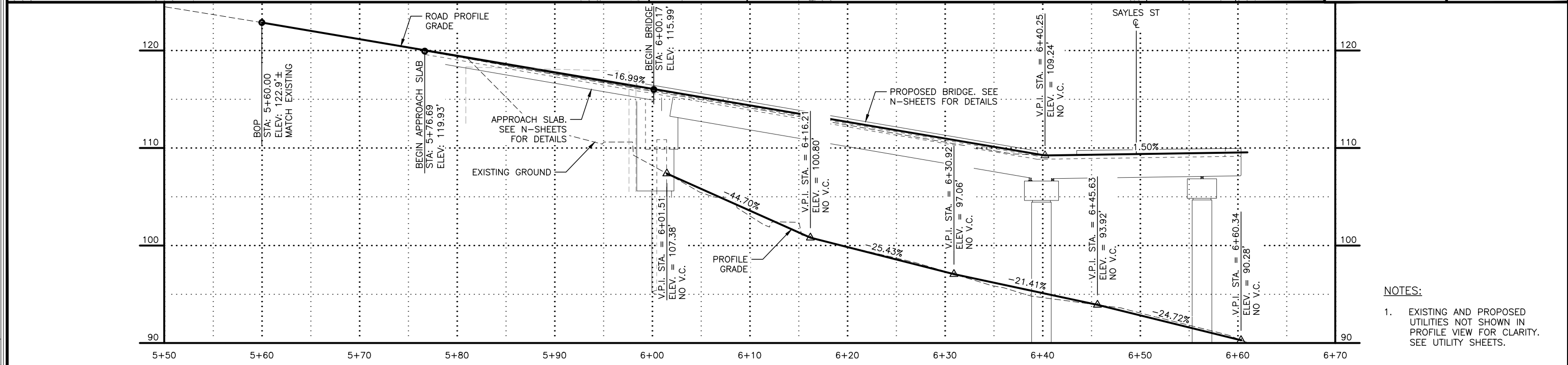
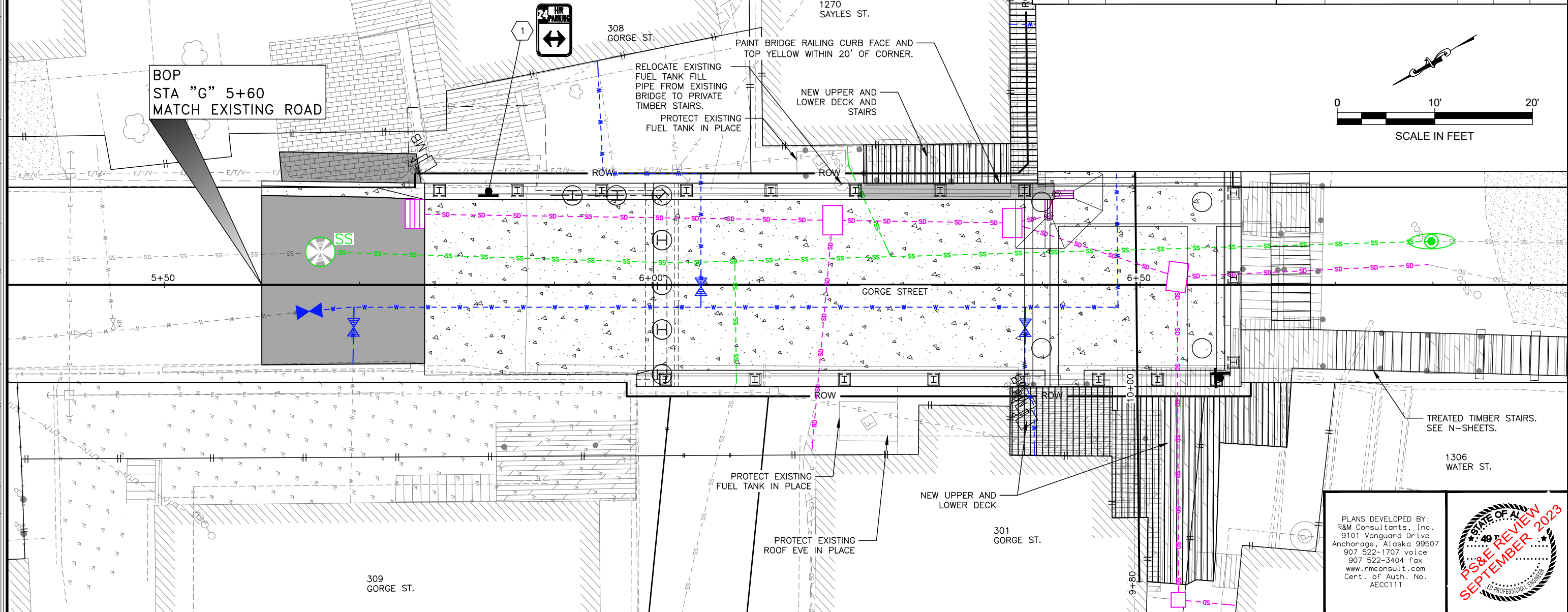
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DEMOLITION PLAN

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FIRM R&M CONSULTANTS, INC. ADDRESS 6860 GLACIER HWY., JUNEAU, AK 99811 PHONE (907) 466-1763 CERTIFICATE OF AUTH # 466-1763 DRAFTED AUB, JTH CHECKED JLO DESIGNED JMH LAYOUT F2 DATE 9/18/23

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	F2	F3



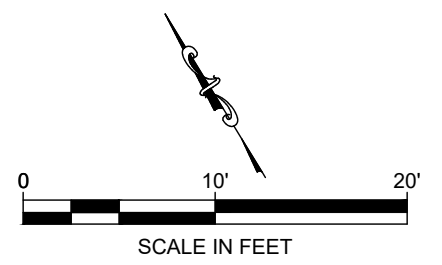
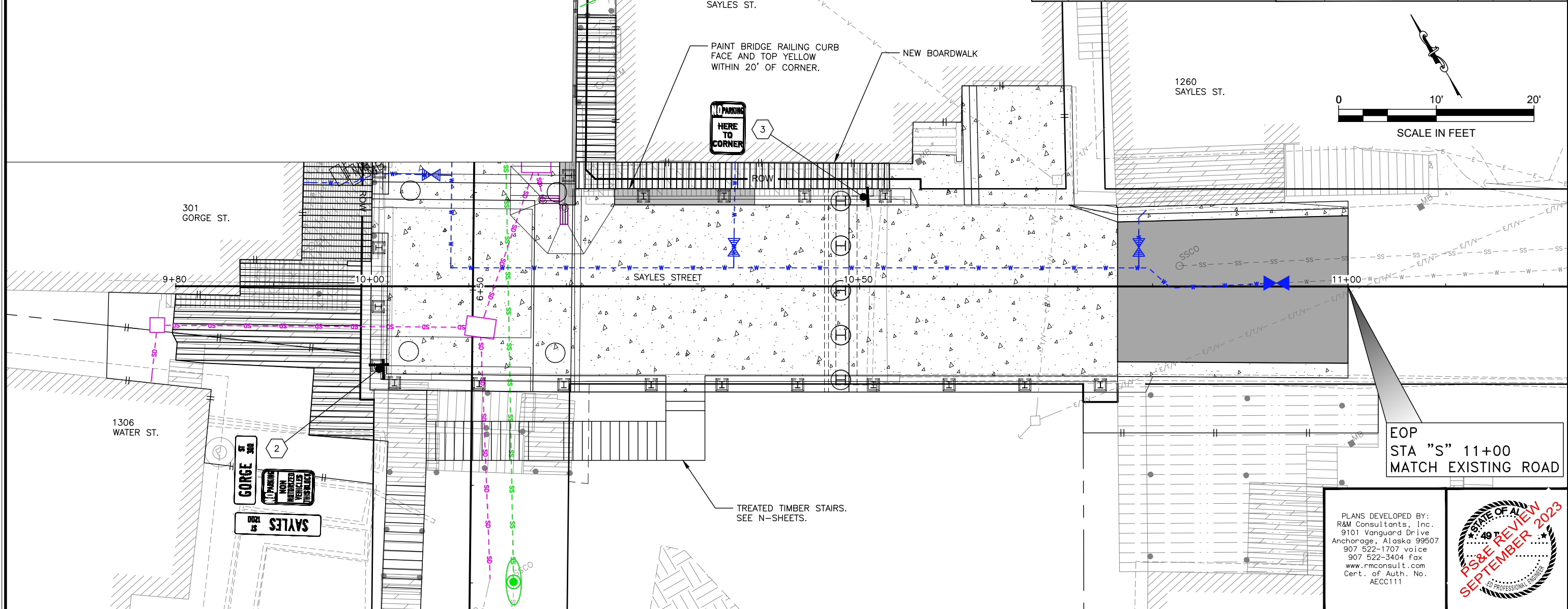
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STATE OF ALASKA
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PS&E REVIEW
 SEPTEMBER 2023

- NOTES:
- EXISTING AND PROPOSED UTILITIES NOT SHOWN IN PROFILE VIEW FOR CLARITY. SEE UTILITY SHEETS.

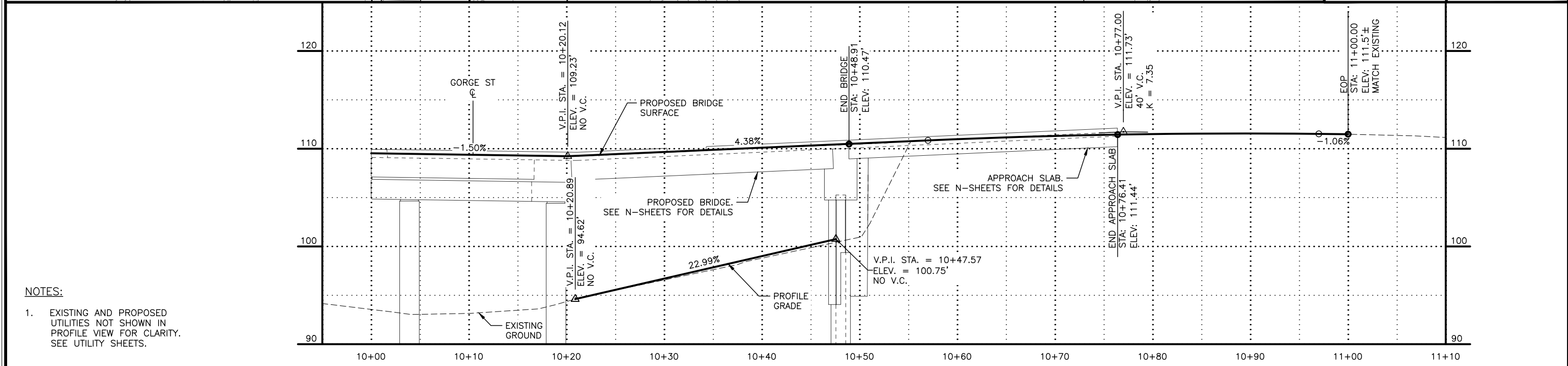
FIRM R&M CONSULTANTS, INC. ADDRESS 6860 GLACIER HWY., JUNEAU, AK 99811 PHONE (907) 465-1763 DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH CERTIFICATE OF AUTH # 9/18/23 LAYOUT F3 DATE 9/18/23

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	F3	F3



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STATE OF ALASKA
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 PS&E REVIEW
 SEPTEMBER 2023
 PROFESSIONAL ENGINEER




STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N1	N46


GENERAL STRUCTURES NOTES:


- All material and workmanship shall be in accordance with the requirements of the Alaska Department of Transportation and Public Facilities "Standard Specifications for Highway Construction", Dated 2020, Standard Modifications, Statewide Special Provisions and Project Special Provisions.
- The structure has been designed in accordance with the requirements of the AASHTO LRFD Bridge Design Specifications Ninth Edition – dated 2020.
- Seismic design of the structure has been completed using:
 - PGA = 0.10
 - A_s = 0.10
 - S_{ps} = 0.30
 - S_{d1} = 0.22
 - SITE CLASS = B
- DESIGN LOADS:
 - DEAD LOAD:
 - CIP CONCRETE – 155 PCF
 - PRESTRESSED CONCRETE – 165 PCF
 - WEARING SURFACE – 50 PSF
 - LIVE LOAD:
 - VEHICLE – AASHTO HL93 W/IMPACT
 - SURCHARGE – 270 PSF
 - EARTH PRESSURE:
 - LATERAL K_a = 0.28 @ Abutment 1
 - K_{AE} = 0.36 @ Abutment 1
 - K_a = 0.25 @ Abutment 5
 - K_{AE} = 0.32 @ Abutment 5
- Unless otherwise shown in the plans the concrete cover measured from the face of the concrete to the face of any reinforcing steel shall be two inches.
- All cast-in-place concrete shall be Class A, un.
- Reinforcing steel shall be ASTM A706, Grade 60. Soldier Piles shall be ASTM A709 Gr 50. Pipe shall be ASTM A252 Gr (Mod) 3 50 ksi yield. Plate shall be ASTM A572 GR 50. Angles shall be ASTM A36.
- All exterior corners and edges shall have a 3/4" chamfer and all interior corners shall have a 3/4" fillet uno.
- Contractor shall verify existing dimensions and elevations in the field prior to work. Contractor shall contact Project Engineer with any discrepancies.
- The Geotechnical Report provided by R&M Consultants, dated August 8, 2022 and supplementary correspondence, was used for design.
- Due to soil conditions at the site, it is expected that a temporary casing will be required for soldier pile and shaft installation.

LEGEND:

 Identifies Section, View or Detail
 Note: If Section, View or Detail is shown on another sheet reference "SHEET TITLE"



 TP-1 Test Pit by R & M Consultants, 2022

 B-1 Boring by R & M Consultants, 2022

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL QUANTITY
202.0001.0000	Removal Of Structures And Obstructions	LS	LS	All Req'd	All Req'd	All Req'd
202.0023.0000	Removal Of Bridge No. 1841	LS	LS	All Req'd	All Req'd	All Req'd
203.0019.0000	Unclassified Excavation	LS	CY	46	----	46
205.0001.0000	Excavation For Structures	CY	CY	44	----	44
205.0004.0000	Porous Backfill Material	CY	CY	86	----	86
501.0001.0000	Class A Concrete	CY	CY	85	----	85
501.0002.0000	Class A-A Concrete	LS	CY	----	99	99
501.0009.0000	Class DS Concrete, 24" Shaft	LF	LF	136	----	136
501.0007.0000	Precast Concrete Member, 37'-9" Voided Slab	EA	EA	----	5	5
501.0007.0000	Precast Concrete Member, 19'-7" Voided Slab	EA	EA	----	5	5
501.0007.0000	Precast Concrete Member, 26'-1" Voided Slab	EA	EA	----	5	5
503.0001.0000	Reinforcing Steel	LS	LB	36700	----	36700
503.0002.0000	Epoxy-Coated Reinforcing Steel	LS	LB	----	22200	22200
504.0002.0000	Structural Steel	LB	LB	8395	----	8395
505.0005.0001	Furnish Structural Steel Piles, W12x106	LF	LF	240	----	240
506.0001.0000	Treated Timber Stairs	LS	LS	All Req'd	All Req'd	All Req'd
507.0001.0003	Steel Bridge Railing, 3-Tube	LF	LF	----	227	227
515.0001.0000	Drilled Shaft 24 Inch Diameter	LS	LS	All Req'd	All Req'd	All Req'd
515.0002.0000	Unclassified Shaft Excavation, 24 Inch Diameter	LF	LF	165	----	165
515.0003.0000	Special Shaft Excavation, 24 Inch Diameter	LF	LF	168	----	168
515.0004.0000	Shaft Casing, 24" Diameter	LF	LF	116	----	116
605.0003.0006	Perforated Pipe Underdrain Inch	LF	LF	70	----	70
613.0001.0002	Geotextile, Drainage, Class 2	SY	SY	50	----	50
642.0001.0000	Construction Surveying	EA	EA	All Req'd	All Req'd	All Req'd

BRIDGE DRAWING LIST

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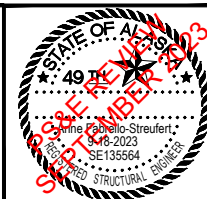
ABBREVIATIONS:

@ Centerline
 CIP Cast In Place
 CJP Complete Joint Penetration
 conc. Concrete
 EL Elevation
 long. Longitudinal
 No. Number
 typ. Typical
 ROW Right of Way
 spec. Specification
 std. Standard
 UNO Unless Noted Otherwise
 WP Work Point
 PCF Pounds per Cubic Foot
 PSF Pounds per Square Foot

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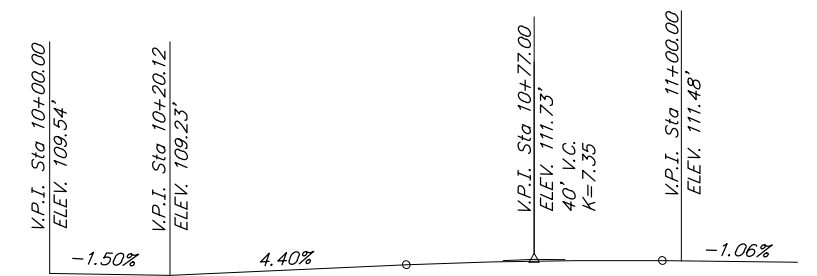
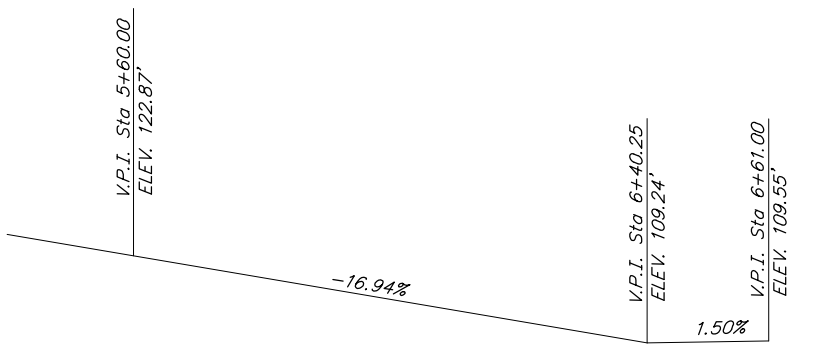
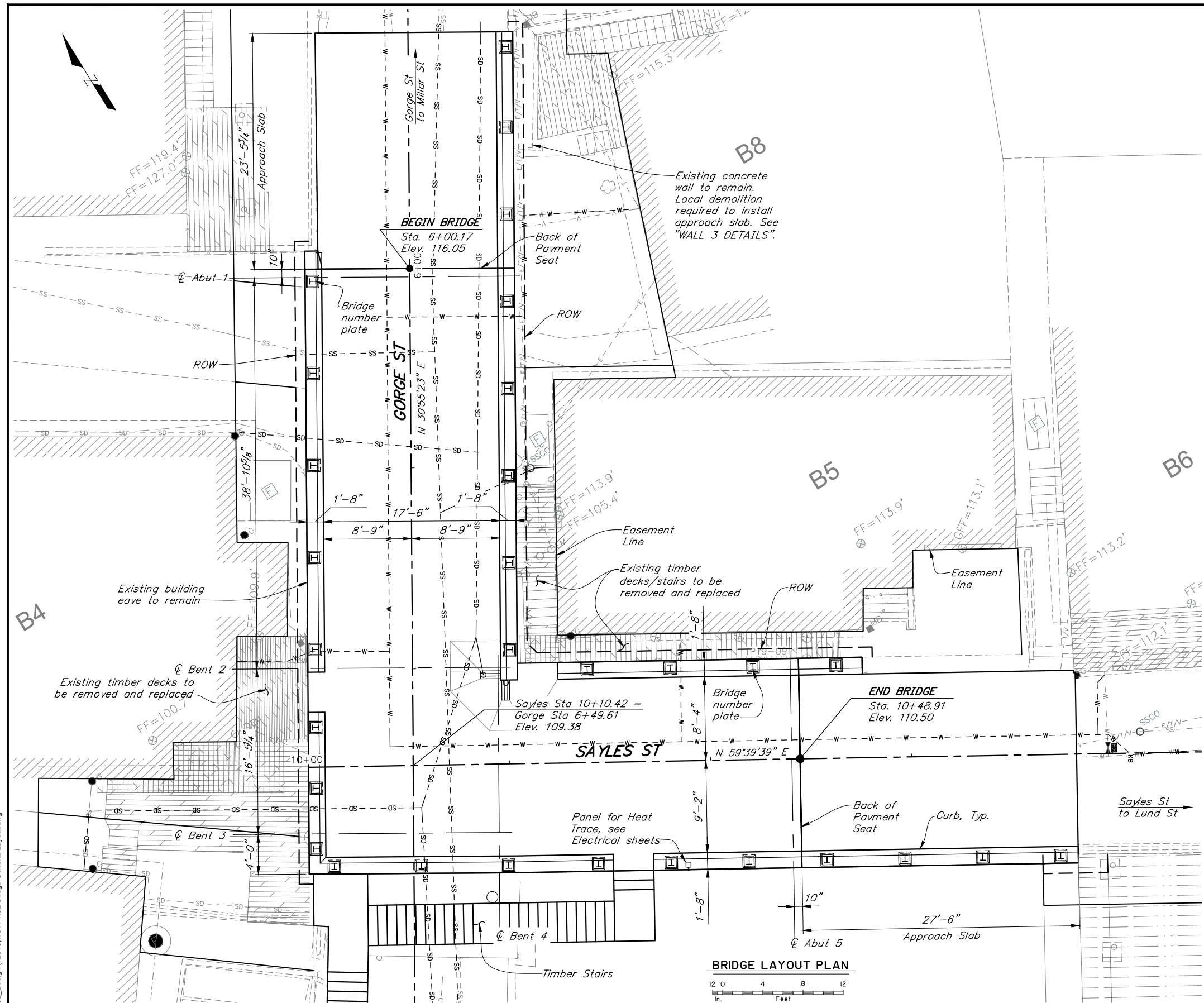
SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
DRAWING INDEX AND STRUCTURAL NOTES



BRIDGE NO. 1841

DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2022	N2	N46



BRIDGE LAYOUT PLAN
 12 0 4 8 12
 in. Feet

09/15/23 | 5:59 PM | Joshp V:\1800239\Sayles-Gorge Viaduct\02_Design (v2019)\1841-N02.Bridge General Layout.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

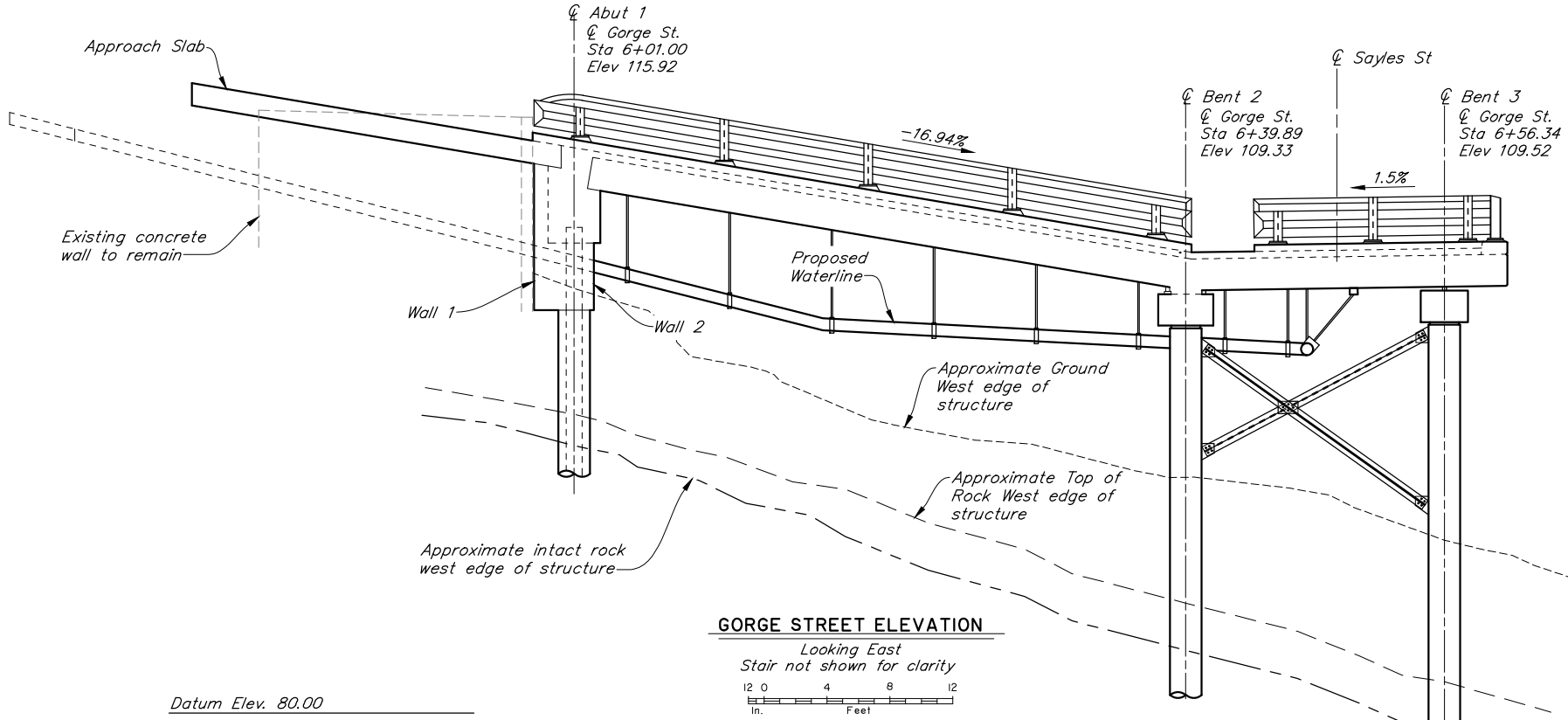
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SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
BRIDGE GENERAL LAYOUT

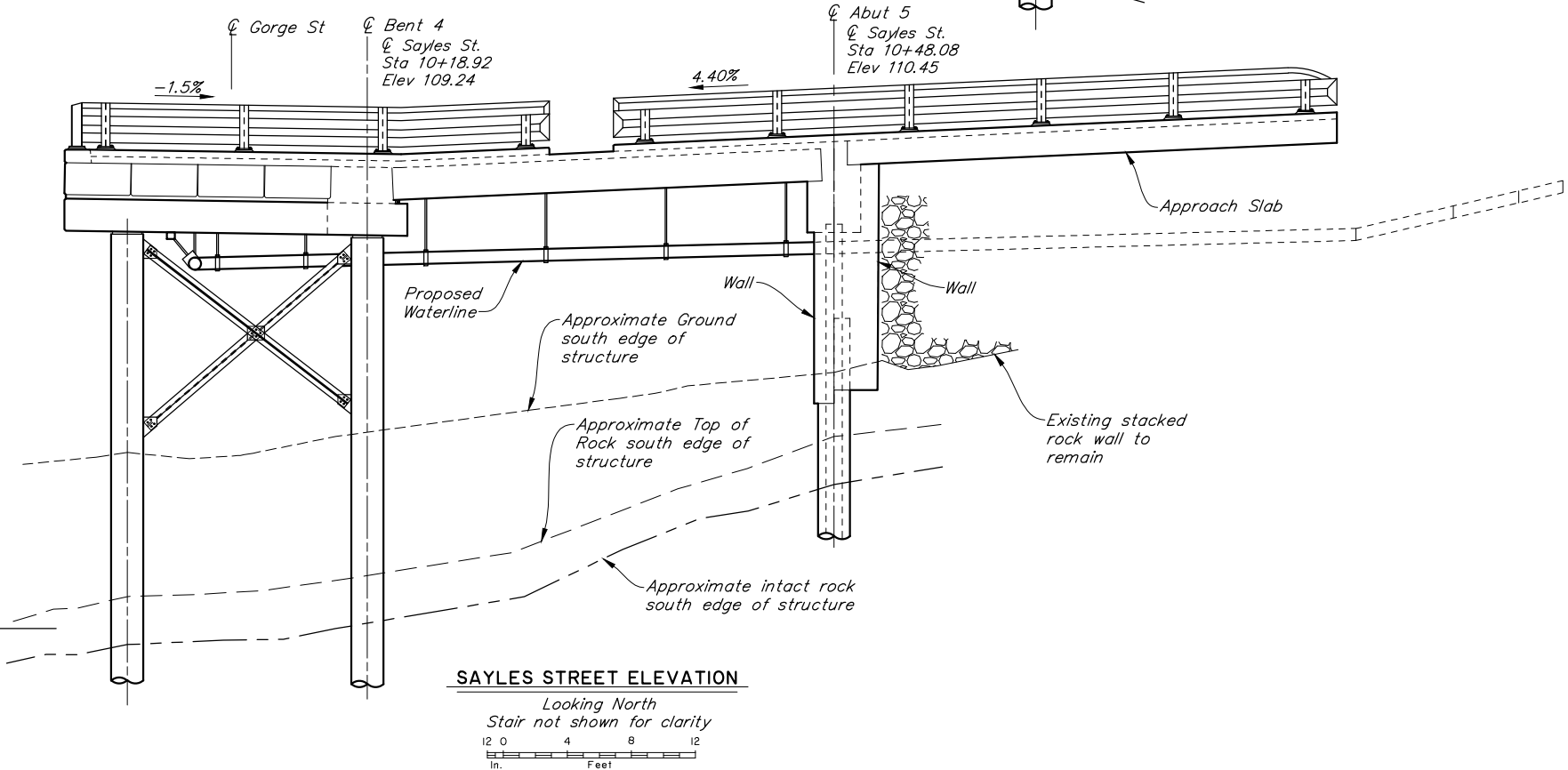

 BRIDGE NO. 1841
 DWG. NO. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2022	N3	N46



GORGE STREET ELEVATION
Looking East
Stair not shown for clarity
12 0 4 8 12
In. Feet

Datum Elev. 80.00



SAYLES STREET ELEVATION
Looking North
Stair not shown for clarity
12 0 4 8 12
In. Feet

Datum Elev. 80.00


09/15/23 | 7:26 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N03 Bridge Elevations.dwg

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DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

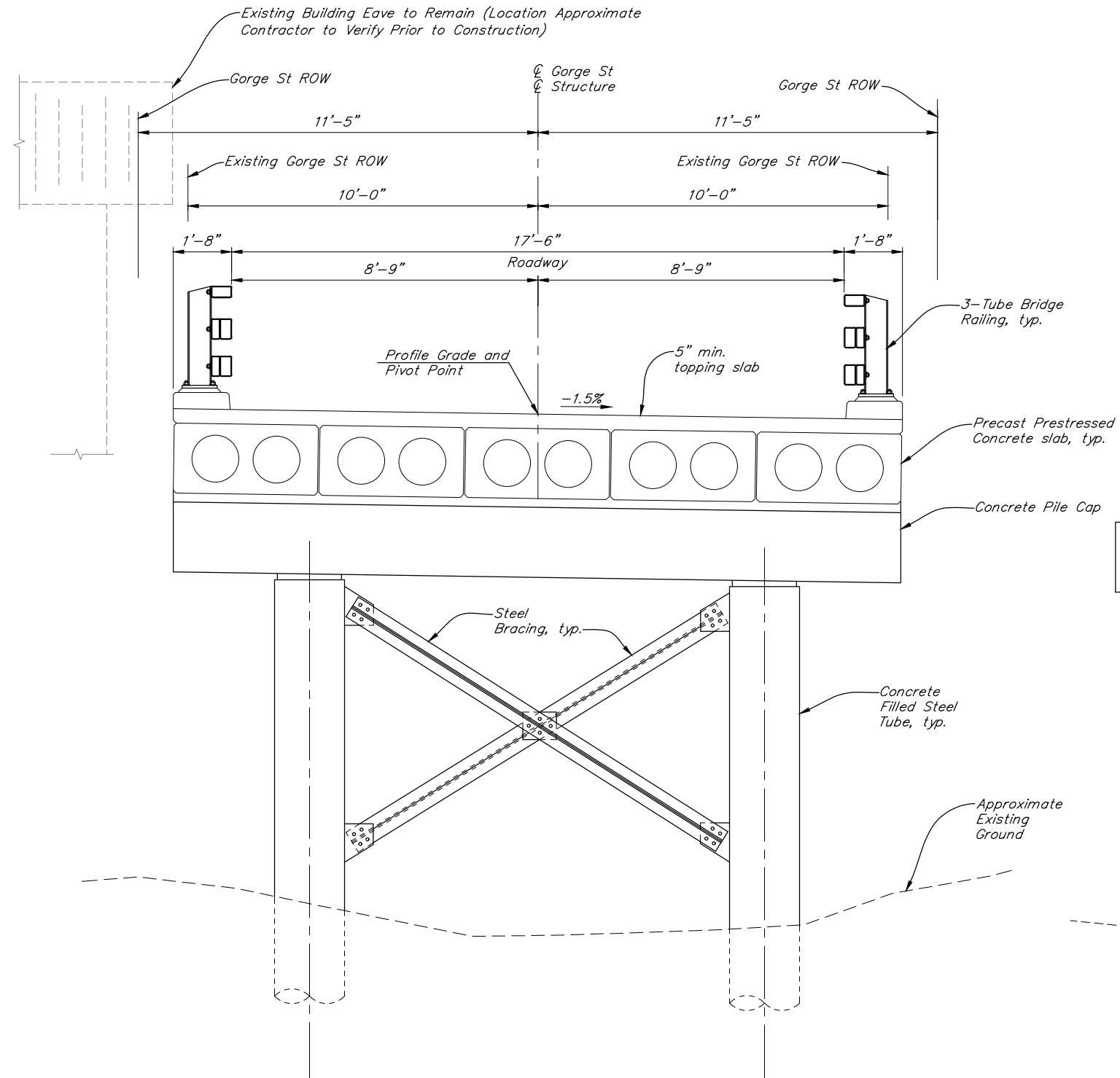
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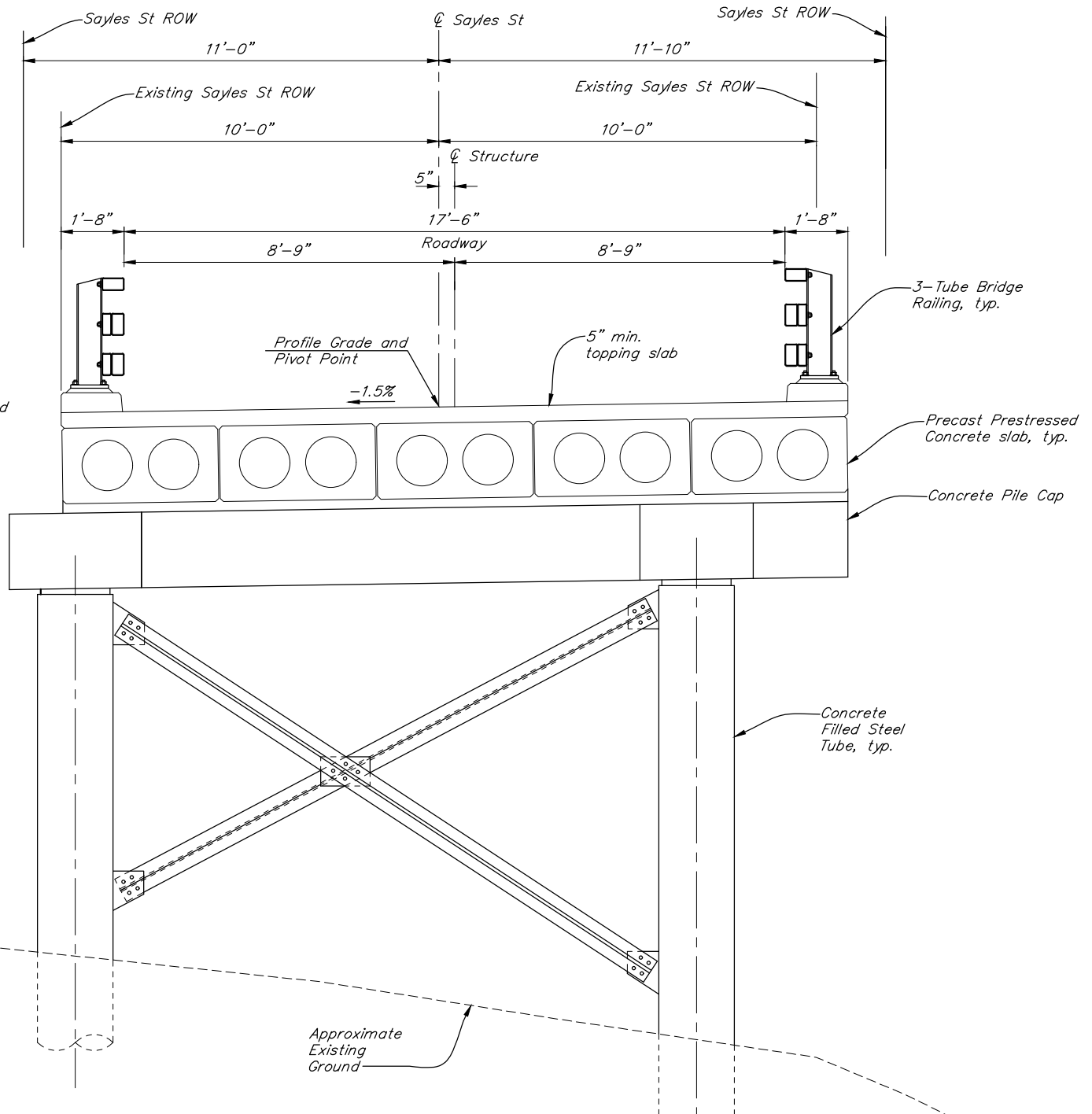
SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BRIDGE ELEVATIONS


BRIDGE NO. 1841
DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N4	N46



TYPICAL GORGE STREET SECTION
Looking North



TYPICAL SAYLES STREET SECTION
Looking East
Stair not shown for Clarity

09/13/23 | 7:07 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-NO.4 Bridge Typical Sections.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
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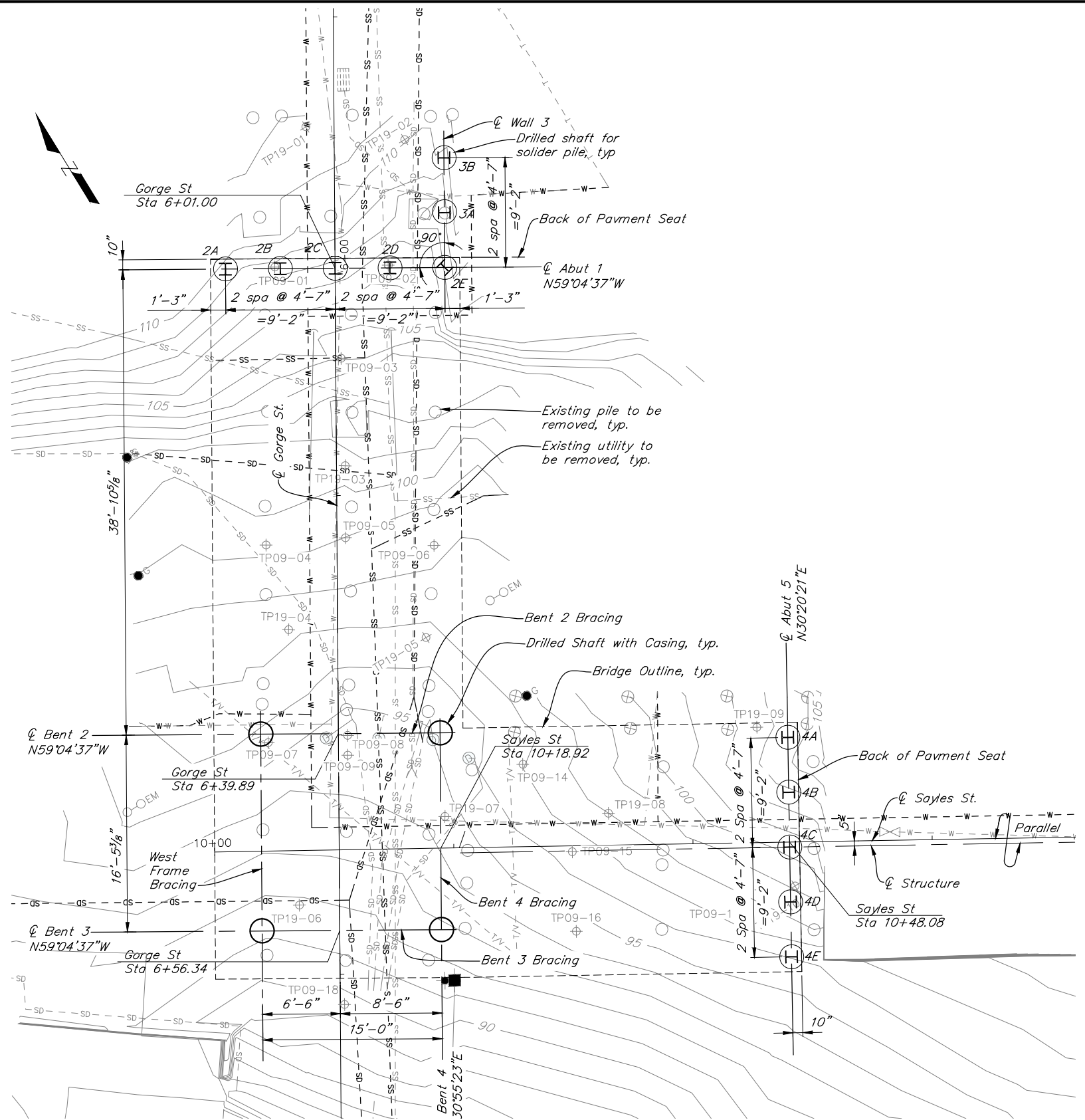
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SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BRIDGE TYPICAL SECTIONS


BRIDGE NO. 1841
DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N5	N46



NOTES:
 1. Utility locations shown conceptually.
 See civil plans for exact locations.

FOUNDATION PLAN
 12 0 4 8 12
 In Feet


09/13/23 | 12:23 PM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N05 Foundation Plan.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
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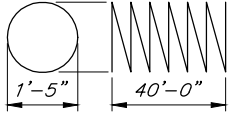


SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
FOUNDATION PLAN


 BRIDGE NO. 1841
 DWG. NO. 5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N6	N46

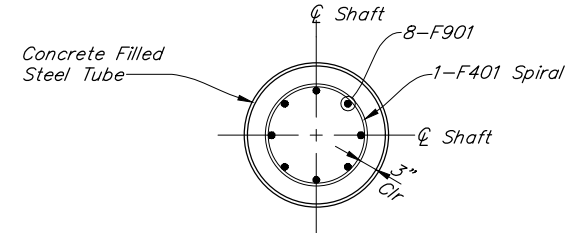
REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
F401	S, F	4	4	40'-0"	Spiral
F901	S, F	9	32	40'-0"	-



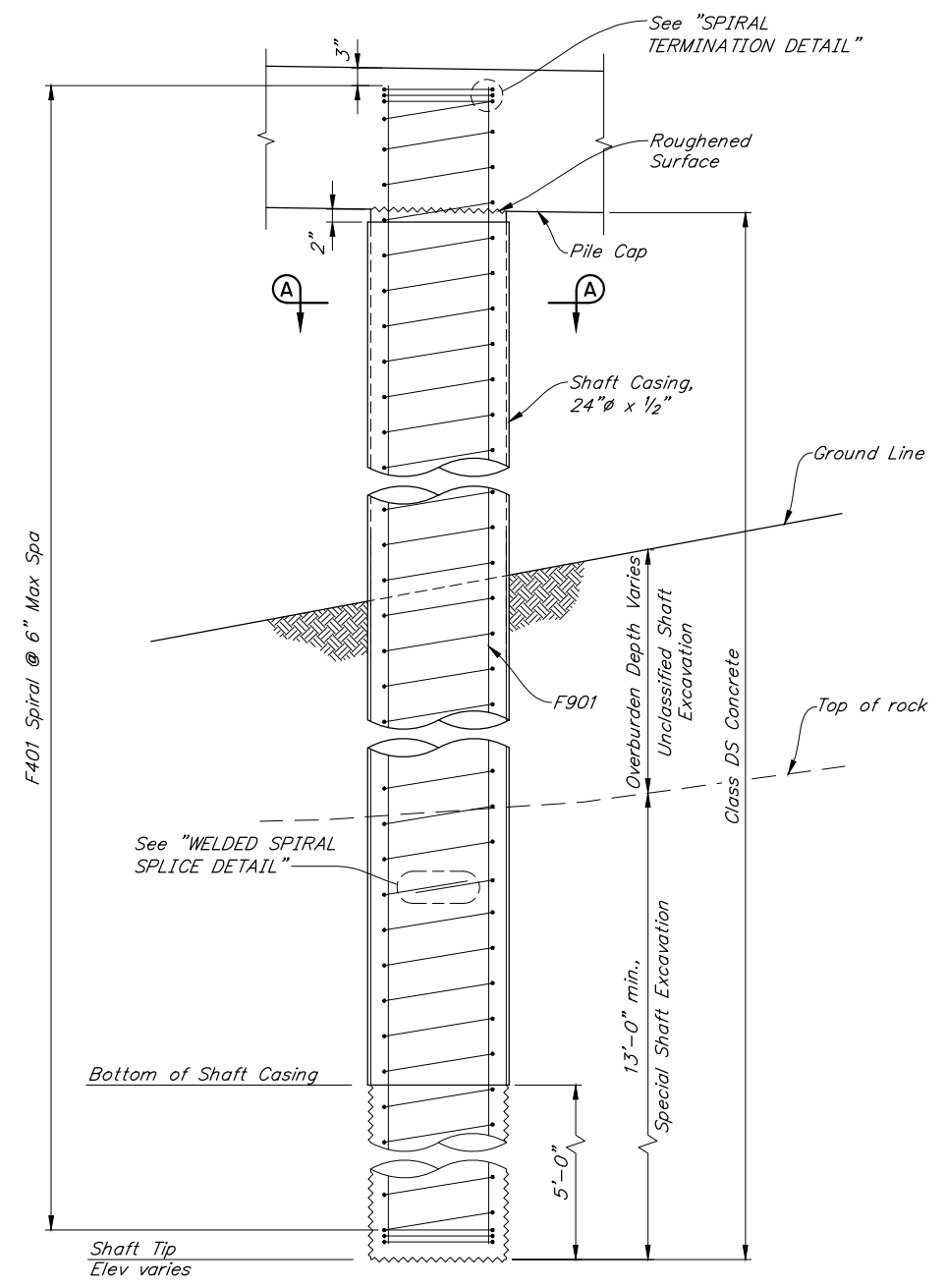
F401

Add "y" feet for every "z" feet of spiral length to account for splices

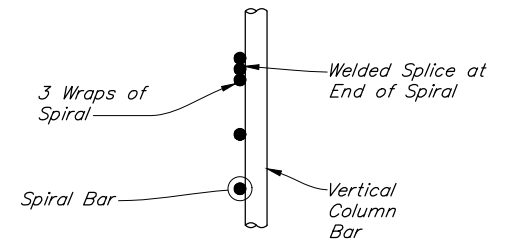
E = Epoxy coated reinforcing steel
 S = Spliced permitted. Length does not include splices.
 F = Furnish additional length and field adjust.



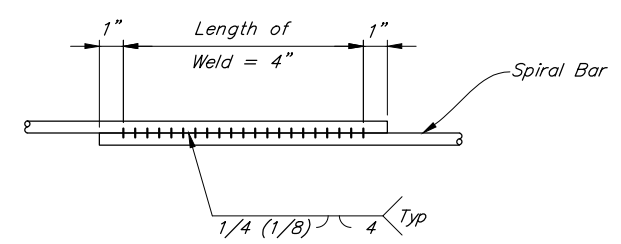
SECTION A-A



SHAFT ELEVATION



SPIRAL TERMINATION DETAIL



WELDED SPIRAL SPLICE DETAIL

09/15/23 | 7:28 PM | Joshp V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N06 Foundation Details.dwg

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QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

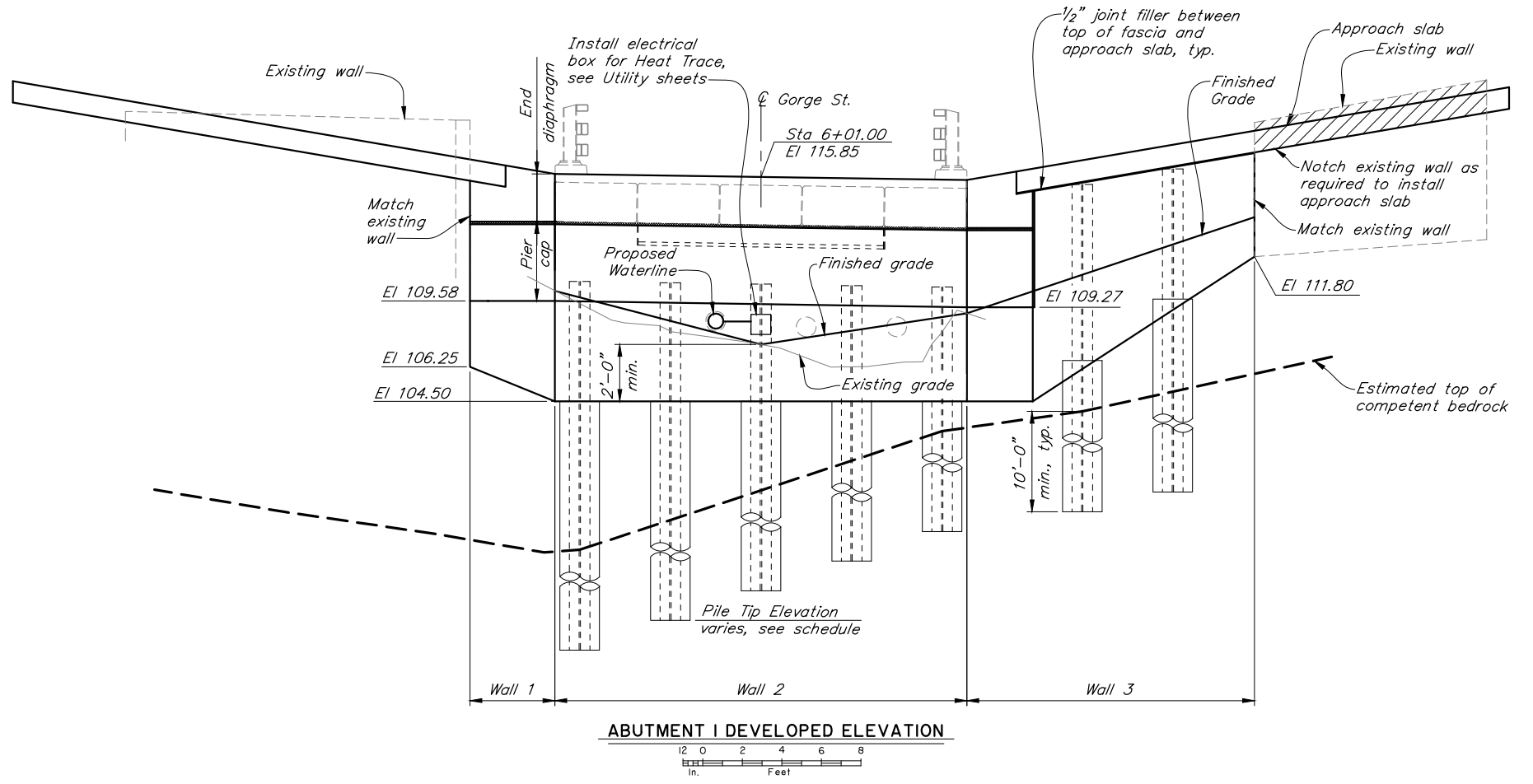
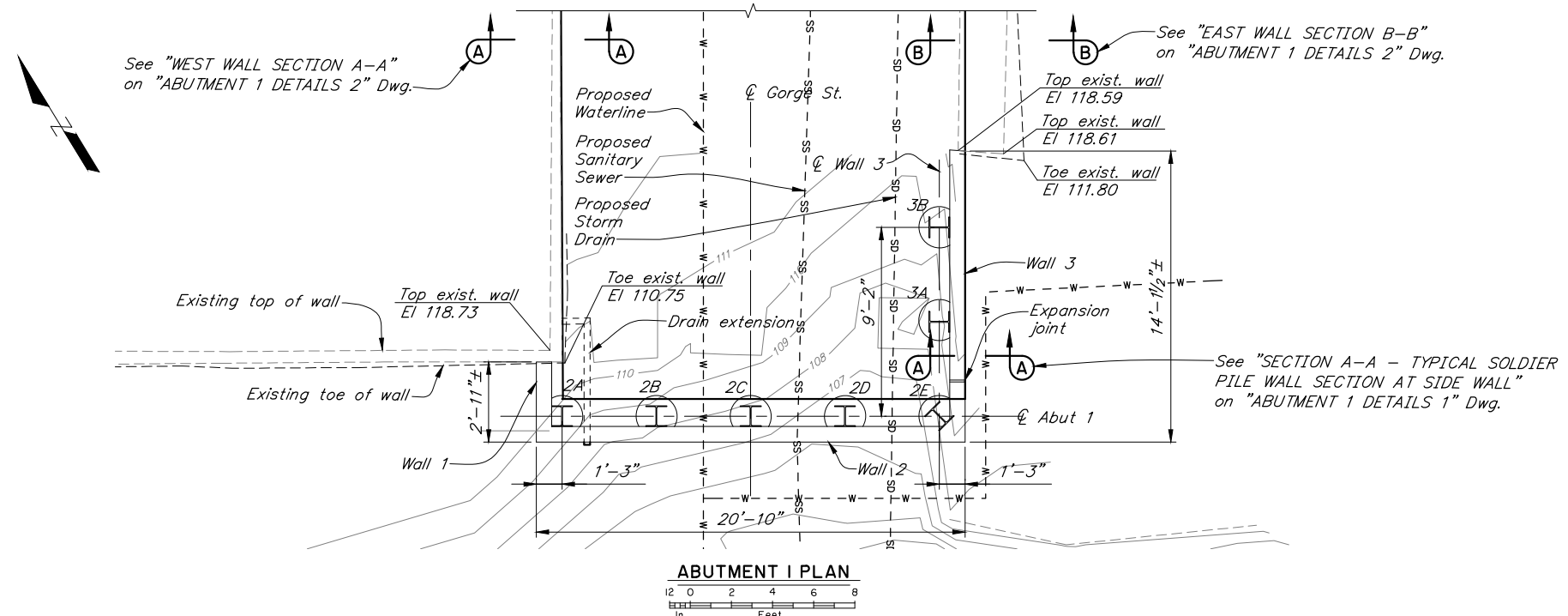
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SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
FOUNDATION DETAILS


 BRIDGE NO. 1841
 DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2022	N7	N46



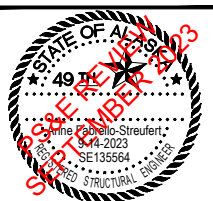
09/14/23 | 12:59 PM | RICKT V:\1800239\Sayles-Gorge Viaduct\02_Design (v2019)\1841-N07 Abutment 1 Layout.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
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QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES - GORGE STREET VIADUCT

SAYLES ST & GORGE ST

ABUTMENT 1 LAYOUT



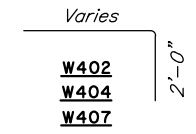
BRIDGE NO. 1841

DWG. NO. 7

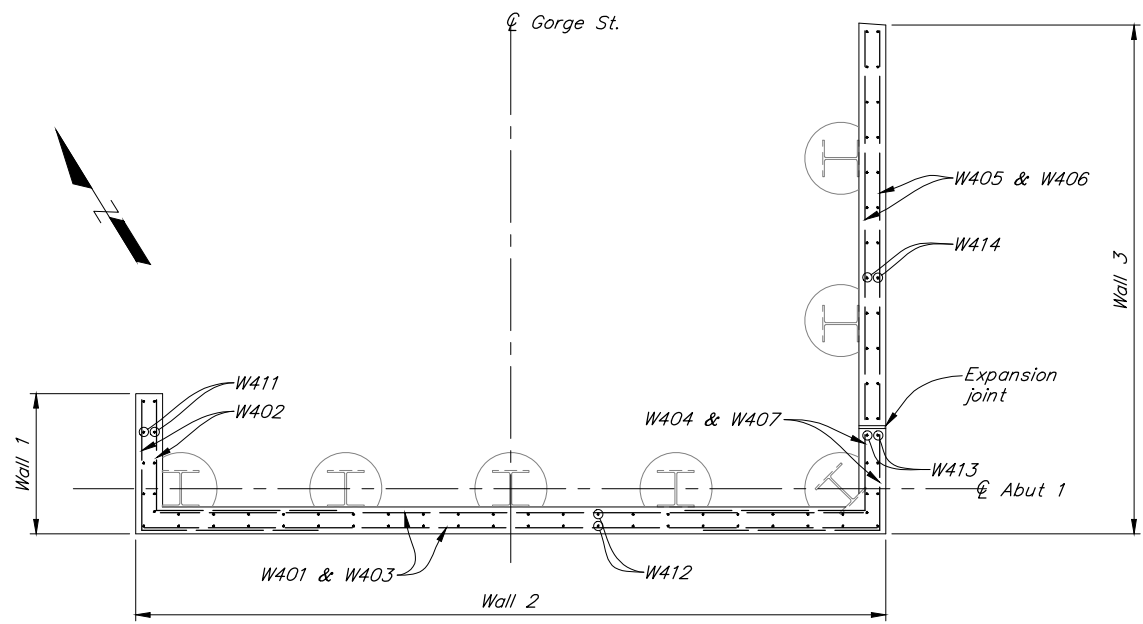
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2022	N8	N46

REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
W401		4	8	20' - 6"	
W402	V	4	8	5' - 5"	BENT
W403		4	6	10' - 7"	
W404	V	4	10	4' - 11"	BENT
W405		4	8	10' - 9"	
W406	V	4	14	9' - 1"	
W407		4	2	3' - 11"	BENT
W411		4	30	3' - 2"	
W412		4	28	5' - 0"	
W413		4	2	4' - 5"	
W414	V	4	24	10' - 1"	

BENDING DIAGRAM

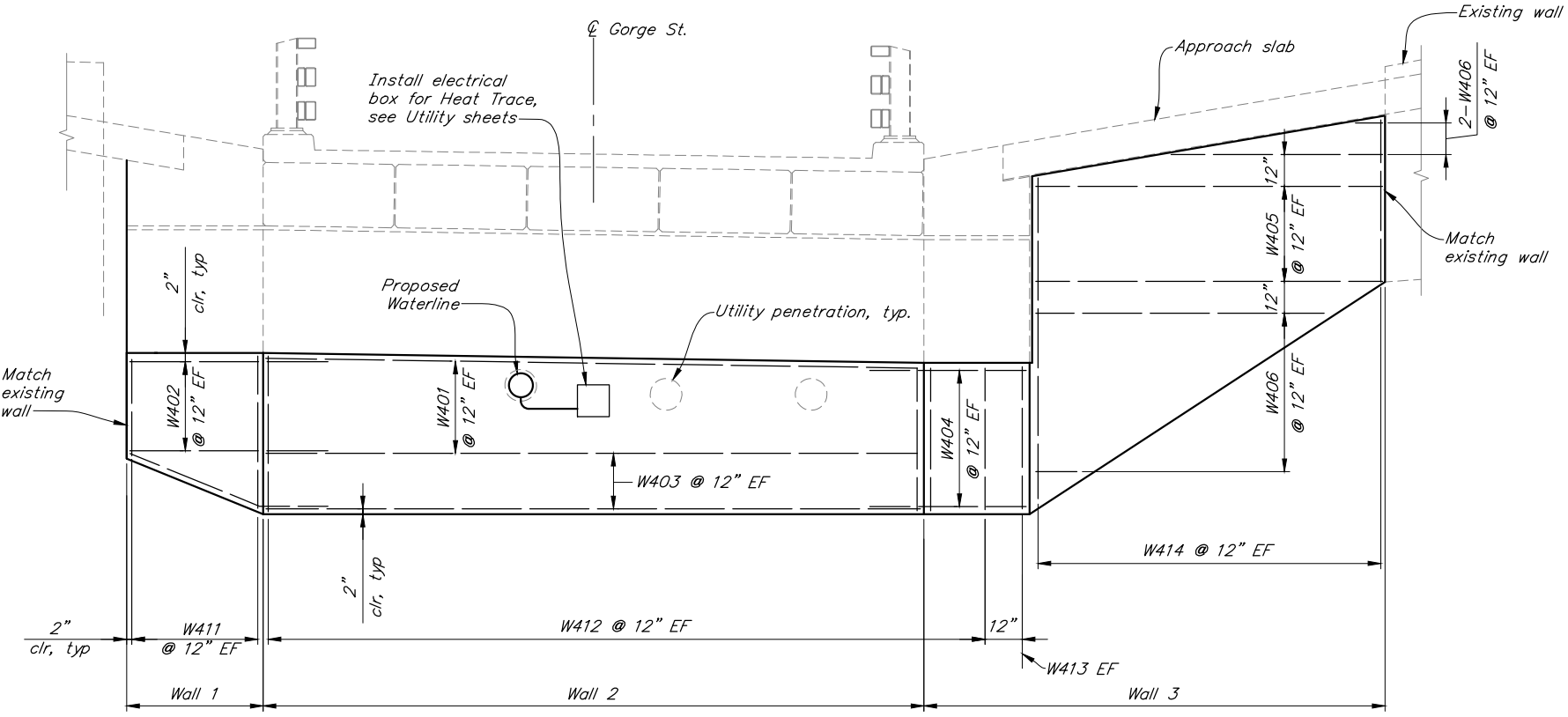


Note: All dimensions are out to out.



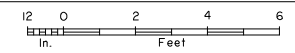
Note: For information not shown, see dwg. "ABUTMENT 1 LAYOUT"

ABUTMENT I FASCIA PLAN



Note: For information not shown, see dwg. "ABUTMENT 1 LAYOUT"

ABUTMENT I FASCIA DEVELOPED ELEVATION



09/15/23 | 7:30 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N08 Abutment 1 Fascia.dwg

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DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 1 FASCIA


BRIDGE NO. 1841
DWG. NO. 8

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2022	N9	N46

SOLDIER PILE SCHEDULE						
Wall	Pile mark	Pile size	Shaft diameter	PILE ELEVATION		
				Top	Estimated Tip*	Estimated Top intact rock **
2	2A	W12x106	2'-0"	111.00	87.00	97.00
2	2B	W12x106	2'-0"	111.00	88.50	98.50
2	2C	W12x106	2'-0"	111.00	90.00	100.00
2	2D	W12x106	2'-0"	111.00	91.50	101.50
2	2E	W12x106	2'-0"	111.00	93.00	103.00
3	3A	W12x106	2'-0"	116.00	94.00	104.00
3	3B	W12x106	2'-0"	117.00	95.00	105.00

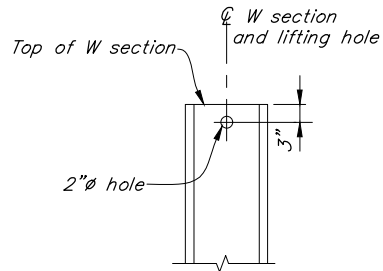
SOLDIER PILE NOTES:

* Minimum embedment of 10'-0" into intact rock. Piles shall be ordered minimum 5' long to accommodate unknown rock depths.

** Top of intact rock may vary. Elevation estimated based on geotechnical recommendations. See construction sequence below.

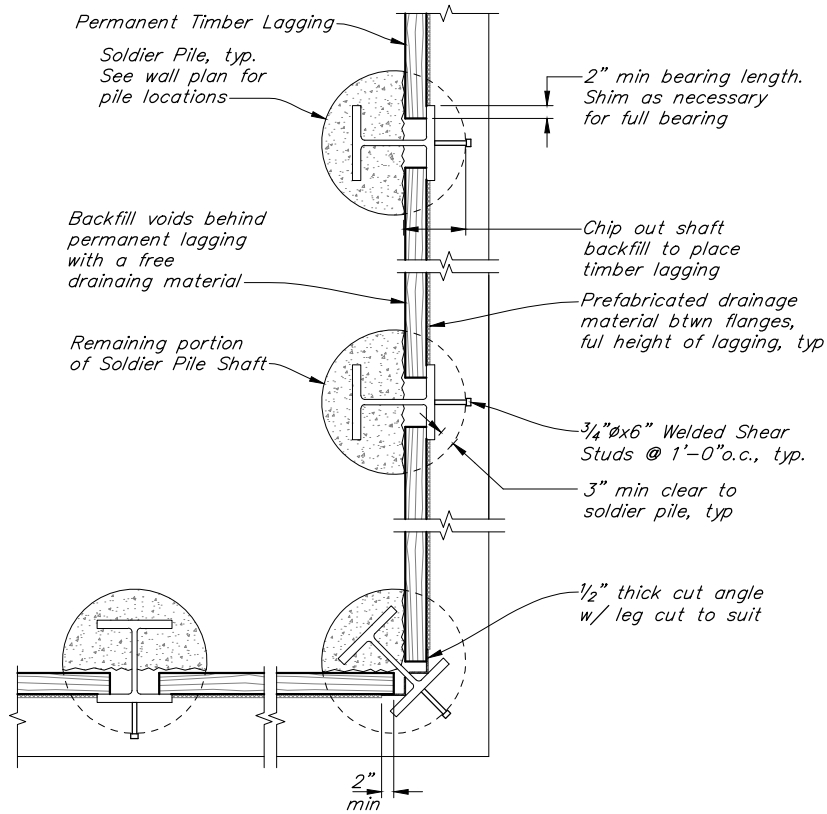
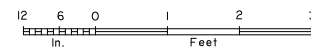
SOLDIER PILE CONSTRUCTION SEQUENCE:

1. Drill to intact rock.
2. If intact rock elevation differs from table value by more than 2 feet, contact Engineer.
3. Drill additional 10'.
4. Cut bottom of pile to achieve top elevation per table.
5. Place pile.
6. Place shaft concrete.
7. Install lagging fascia.

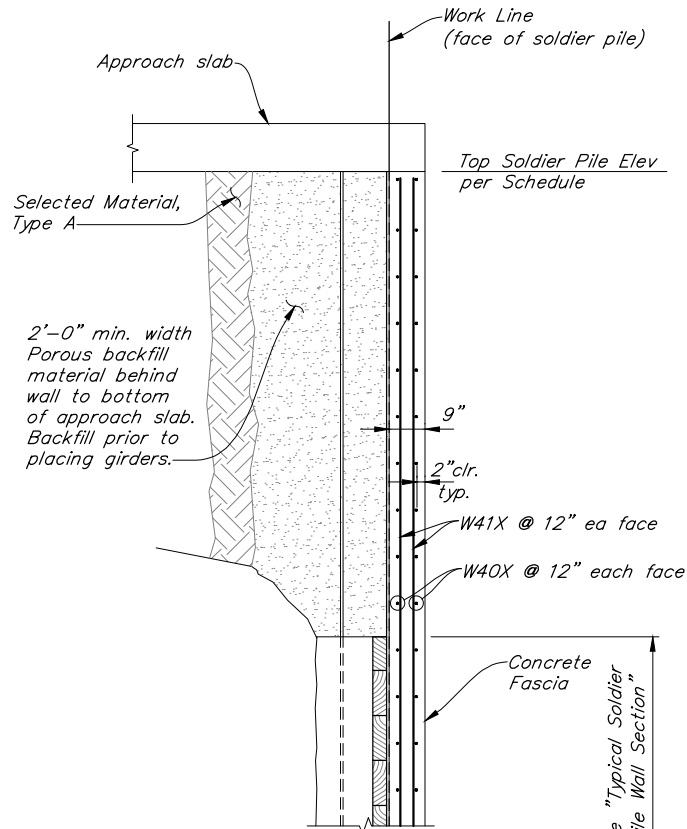
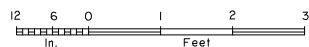


Note: Lifting hole shall be drilled in the shop prior to painting the pile.

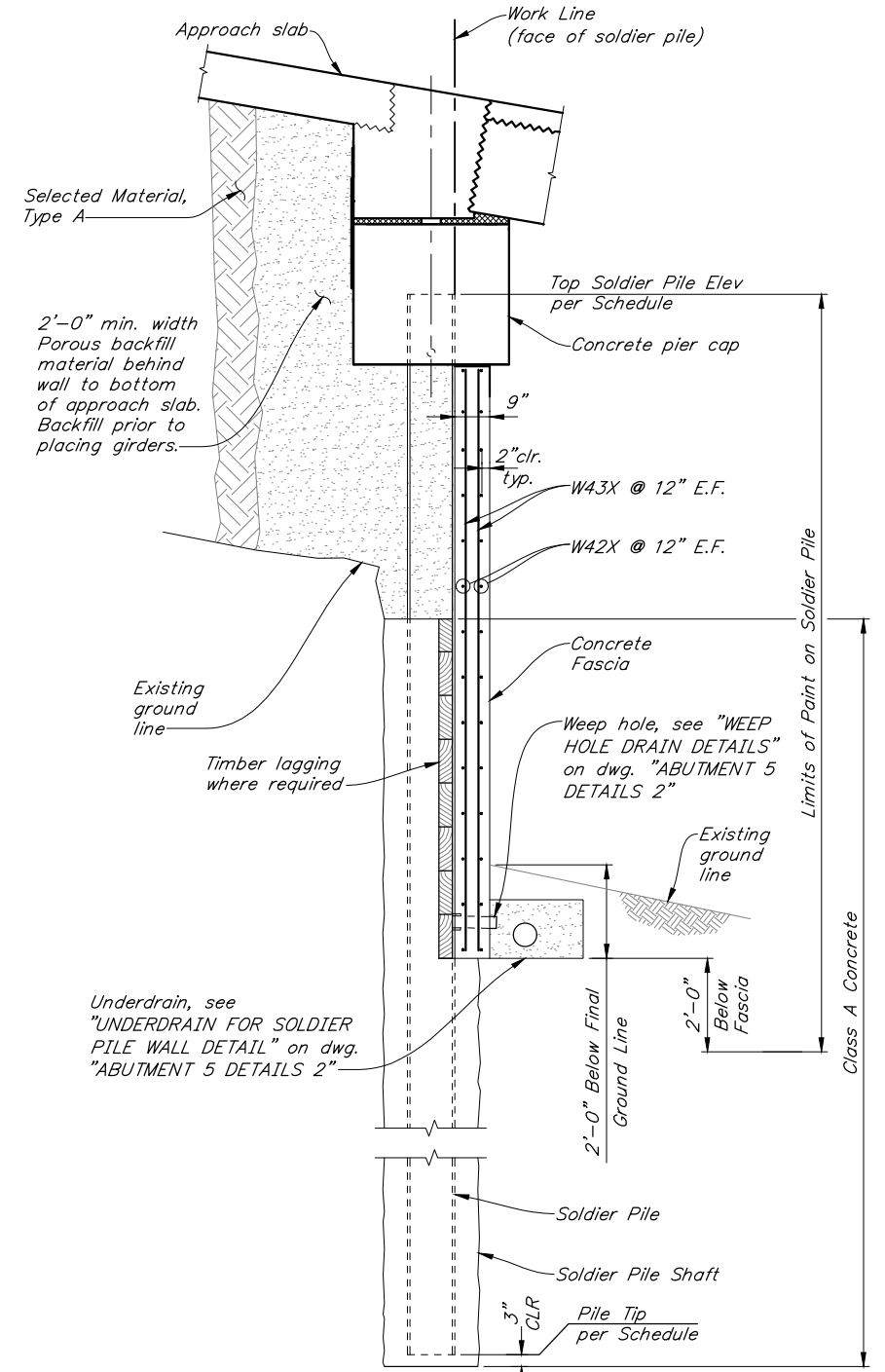
SOLDIER PILE LIFTING HOLE



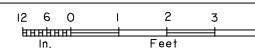
TYPICAL SOLDIER PILE WALL PLAN



SECTION A-A - TYPICAL SOLDIER PILE WALL SECTION AT SIDE WALL



TYPICAL SOLDIER PILE WALL SECTION



09/15/23 | 5:35 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N09 Abutment 1 Details 1.dwg

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DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
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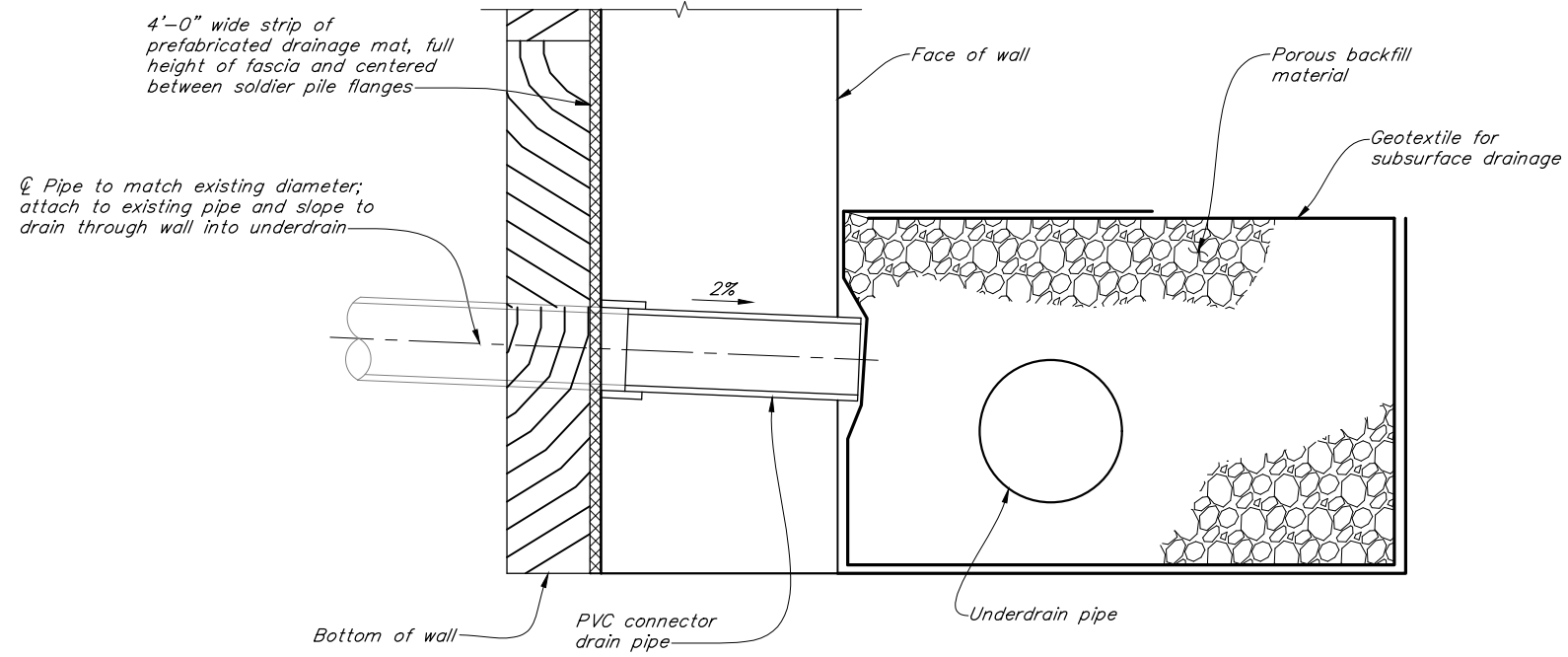


SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 1 DETAILS 1

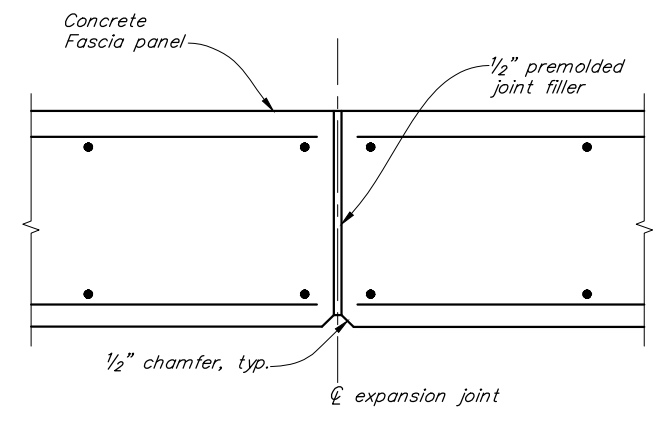
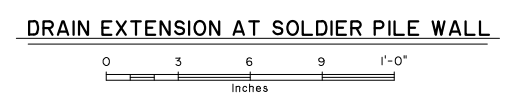


BRIDGE NO. 1841
DWG. NO. 9

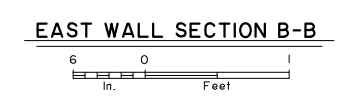
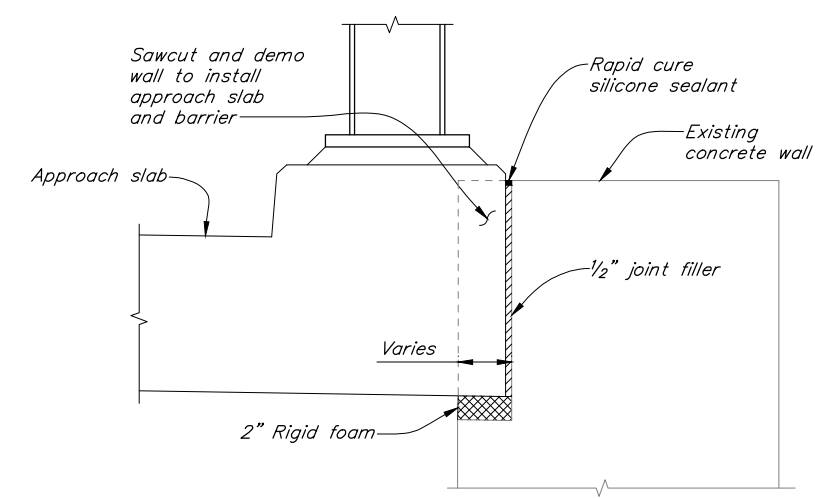
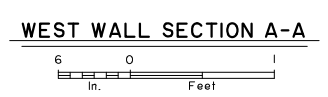
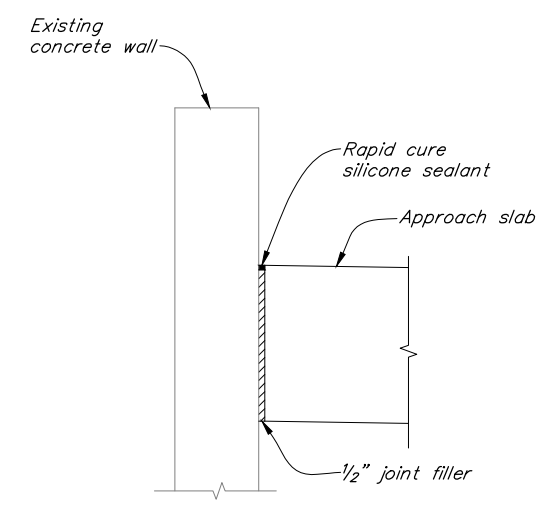
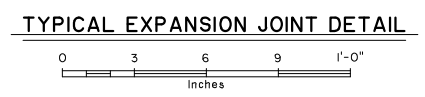
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N10	N46



Note: See "ABUTMENT 5 DETAILS" for information not shown.



NOTES:
1. See "ABUTMENT 1 LAYOUT" for location of expansion joints.



09/13/23 | 7:29 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N10 Abutment 1 Details 2.dwg

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DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

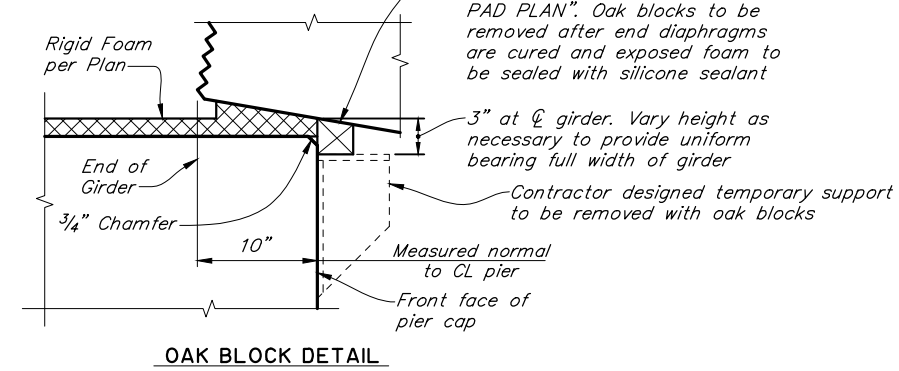
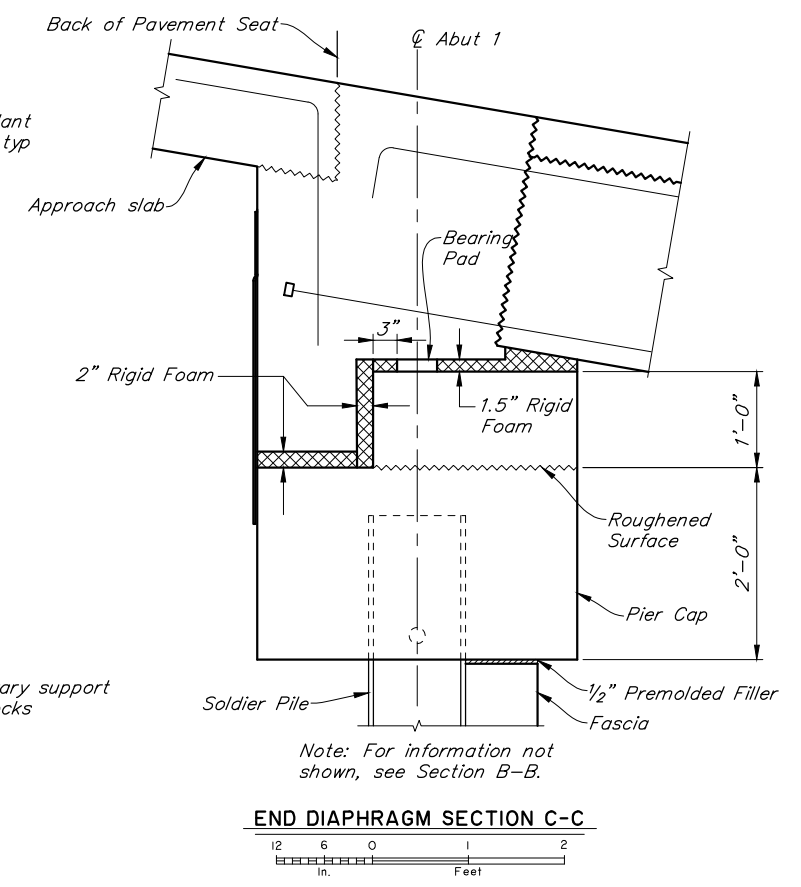
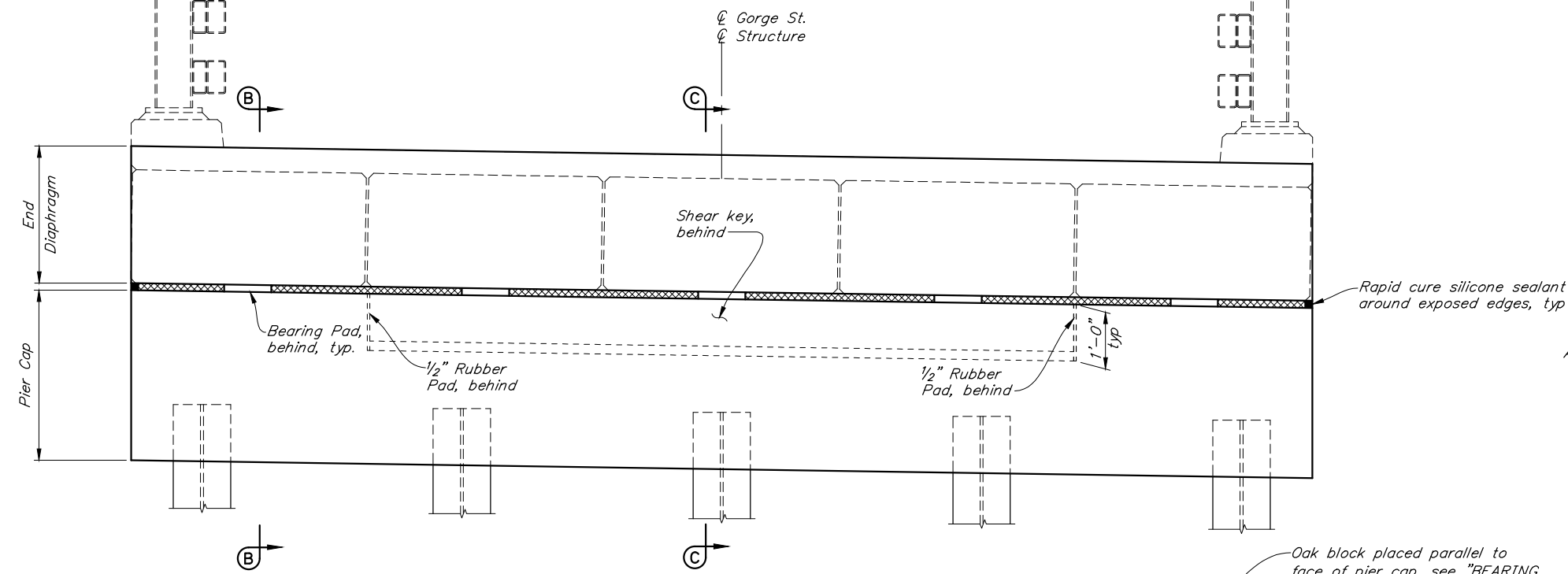
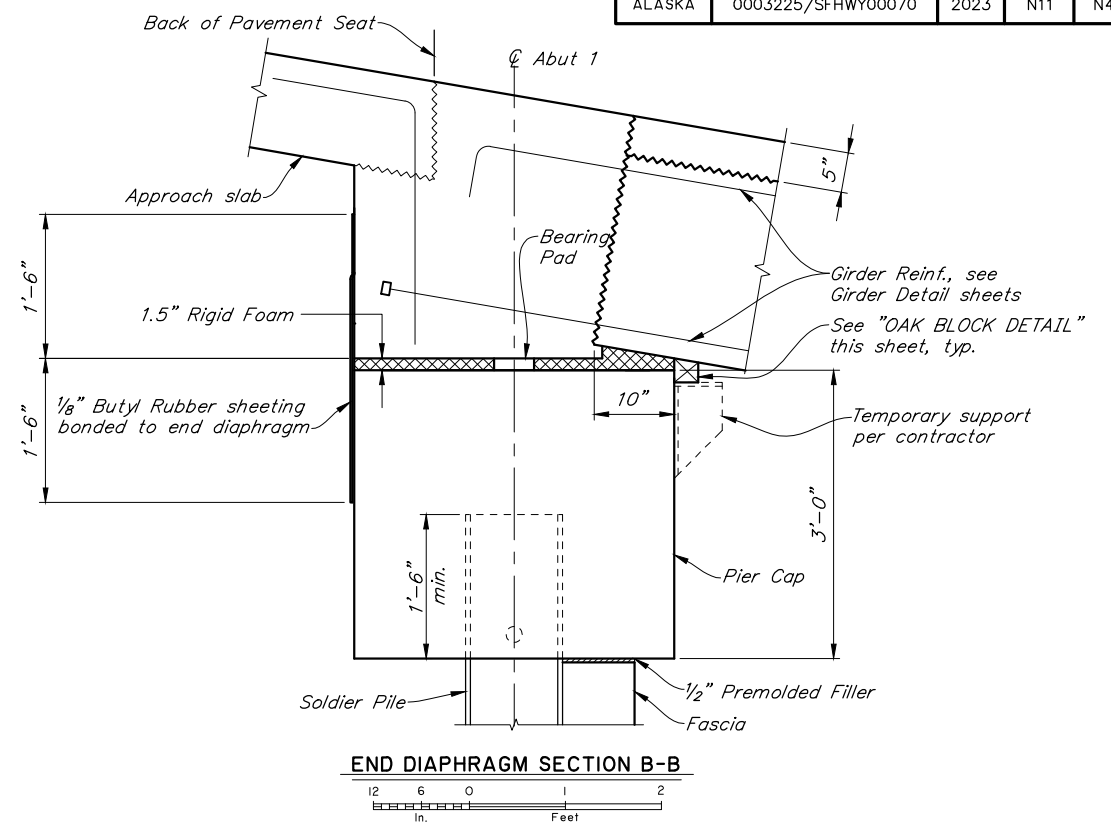
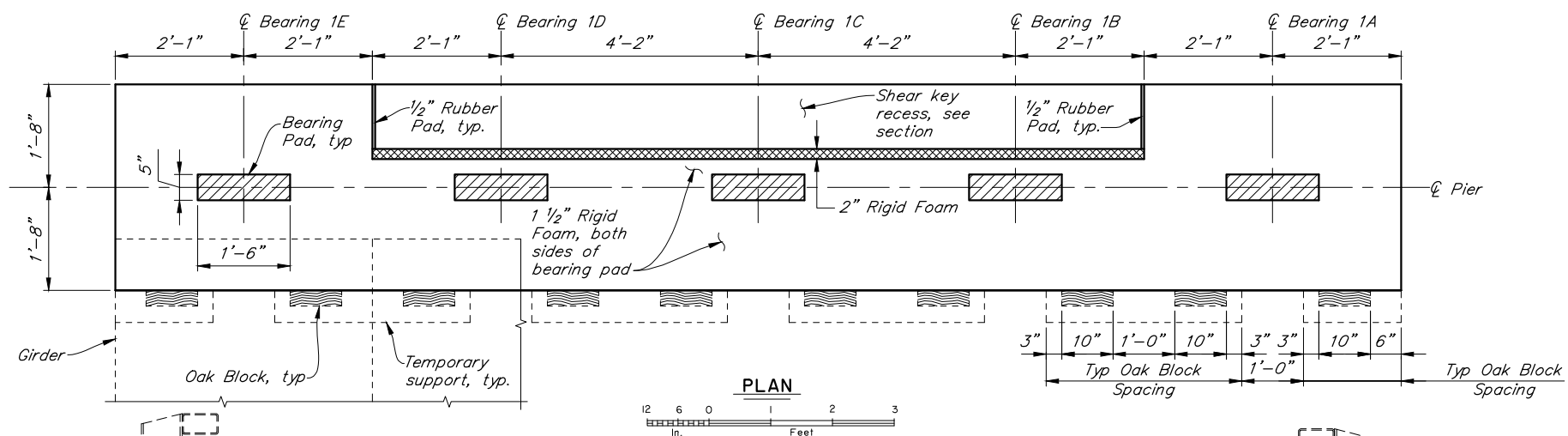
PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

PLANS DEVELOPED BY:
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(206) 622-5822



SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 1 DETAILS 2

BRIDGE NO. 1841
DWG. NO. 10



GIRDER BLOCKING ELEVATIONS									
GIRDER 1E		GIRDER 1D		GIRDER 1C		GIRDER 1B		GIRDER 1A	
R	L	R	L	R	L	R	L	R	L
113.29	113.25	113.22	113.19	113.16	113.13	113.10	113.06	113.04	113.00

09/13/23 | 2:21 PM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N11-Abutment 1 Cap Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION
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SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
ABUTMENT 1 CAP DETAILS 1

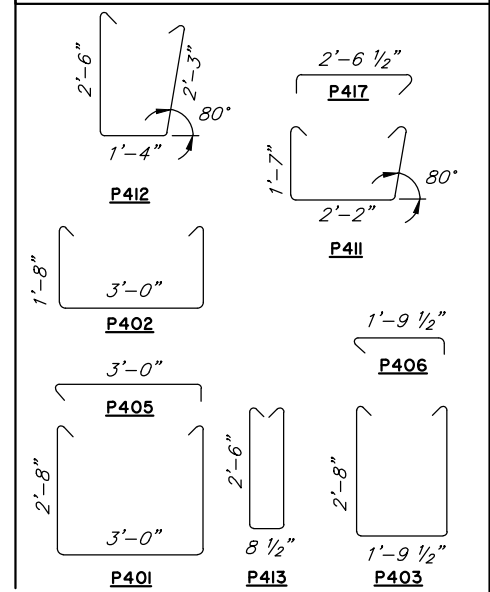

 BRIDGE NO. 1841
 DWG. NO. 11

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N12	N46

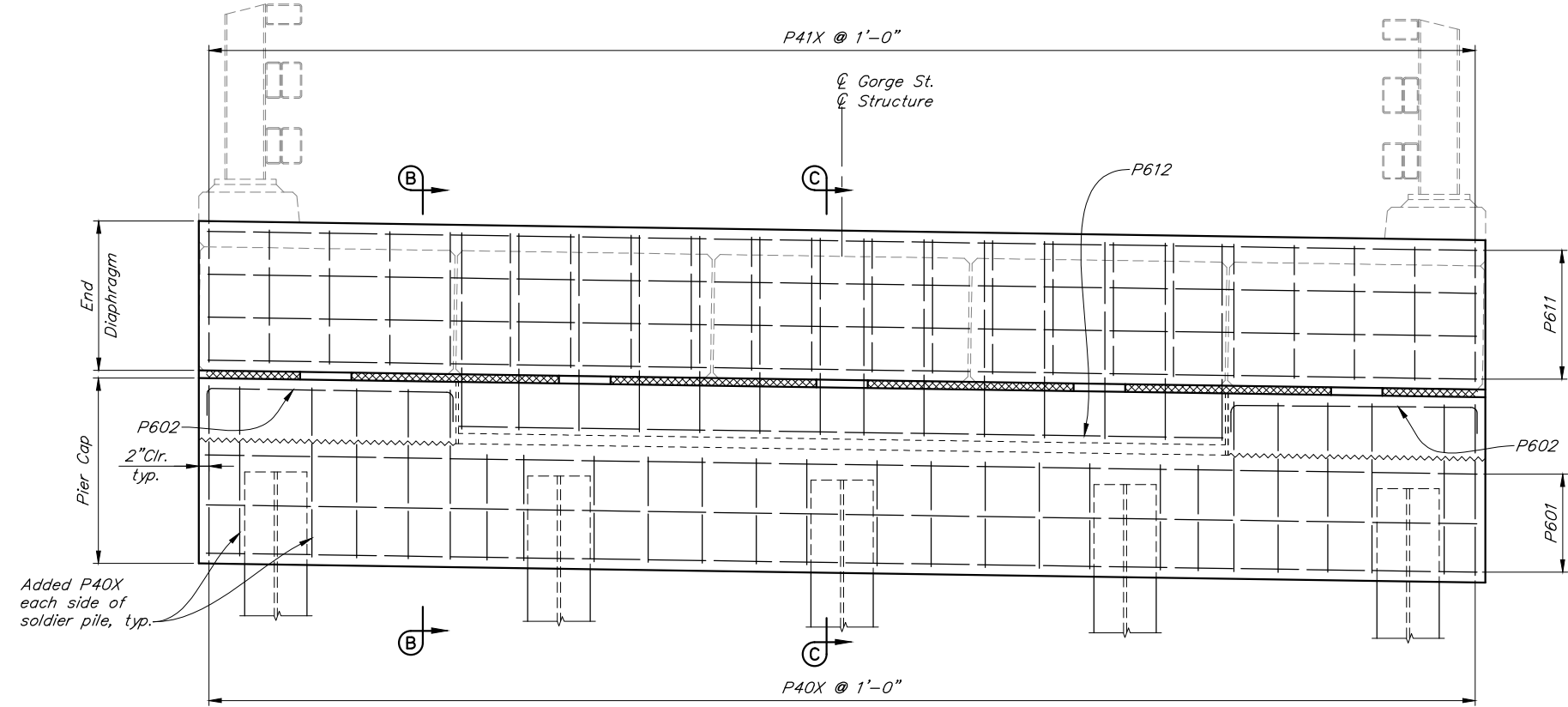
REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P401		4	12	8' - 11"	BENT
P402		4	16	6' - 11"	BENT
P403		4	16	7' - 8"	BENT
P405		4	28	3' - 8"	BENT
P406		4	16	2' - 5"	BENT
P417	E	4	22	3' - 3"	BENT
P411	E	4	22	5' - 11"	BENT
P412	E	4	22	6' - 11"	BENT
P413	E	4	14	6' - 3"	BENT
P601		6	13	20' - 6"	
P602		6	2	3' - 10"	
P611	E	6	11	20' - 6"	
P612		6	2	12' - 1"	

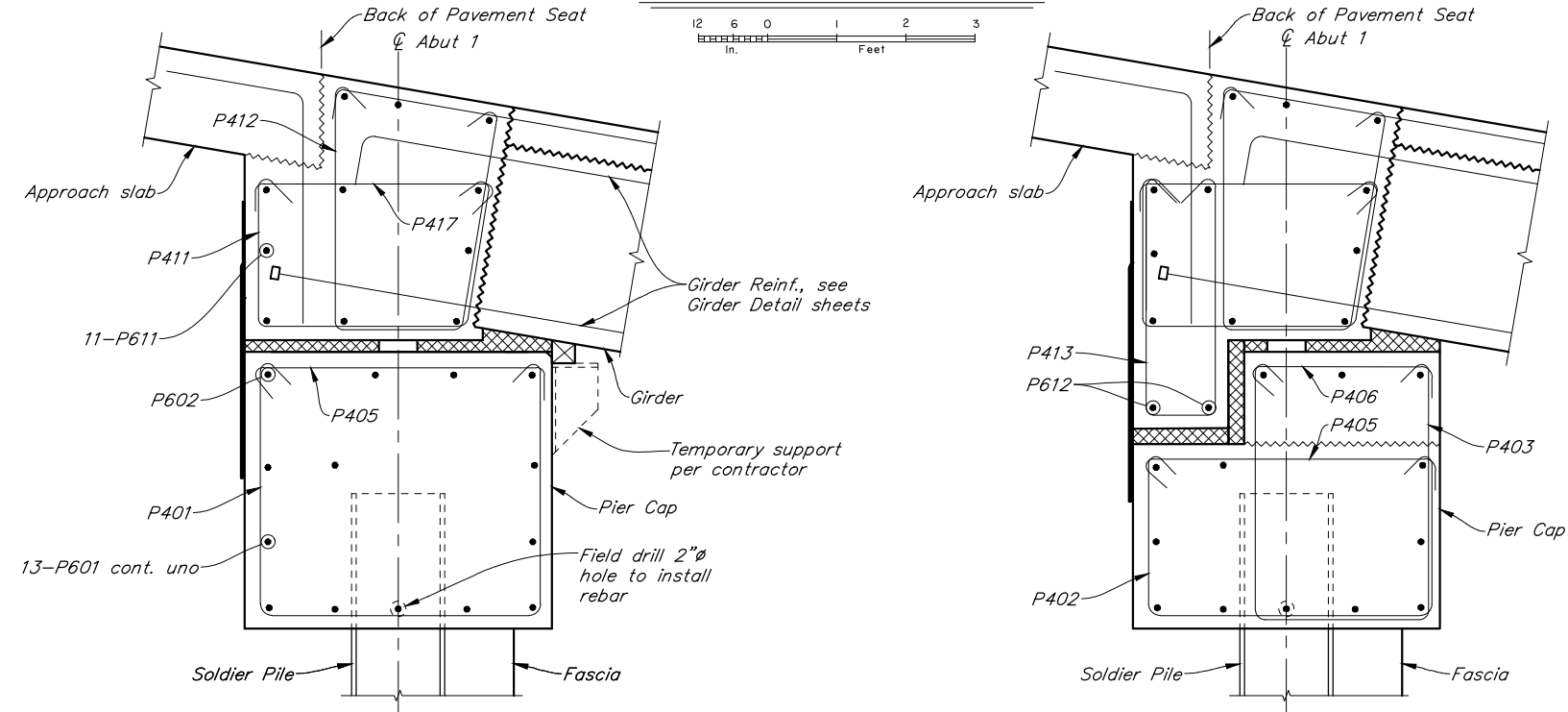
BENDING DIAGRAM



E = Epoxy coated reinforcing steel
S = Spliced permitted. Length does not include splices.



ABUTMENT I CAP BEAM ELEVATION



Note: For information not shown, see sheet "ABUTMENT 1 CAP DETAILS 1"

END DIAPHRAGM SECTION B-B

Note: For information not shown, see Section B-B

END DIAPHRAGM SECTION C-C

09/15/23 | 7:31 PM | Joshhp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N12-Abutment 1 Cap Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

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SAYLES - GORGE STREET VIADUCT

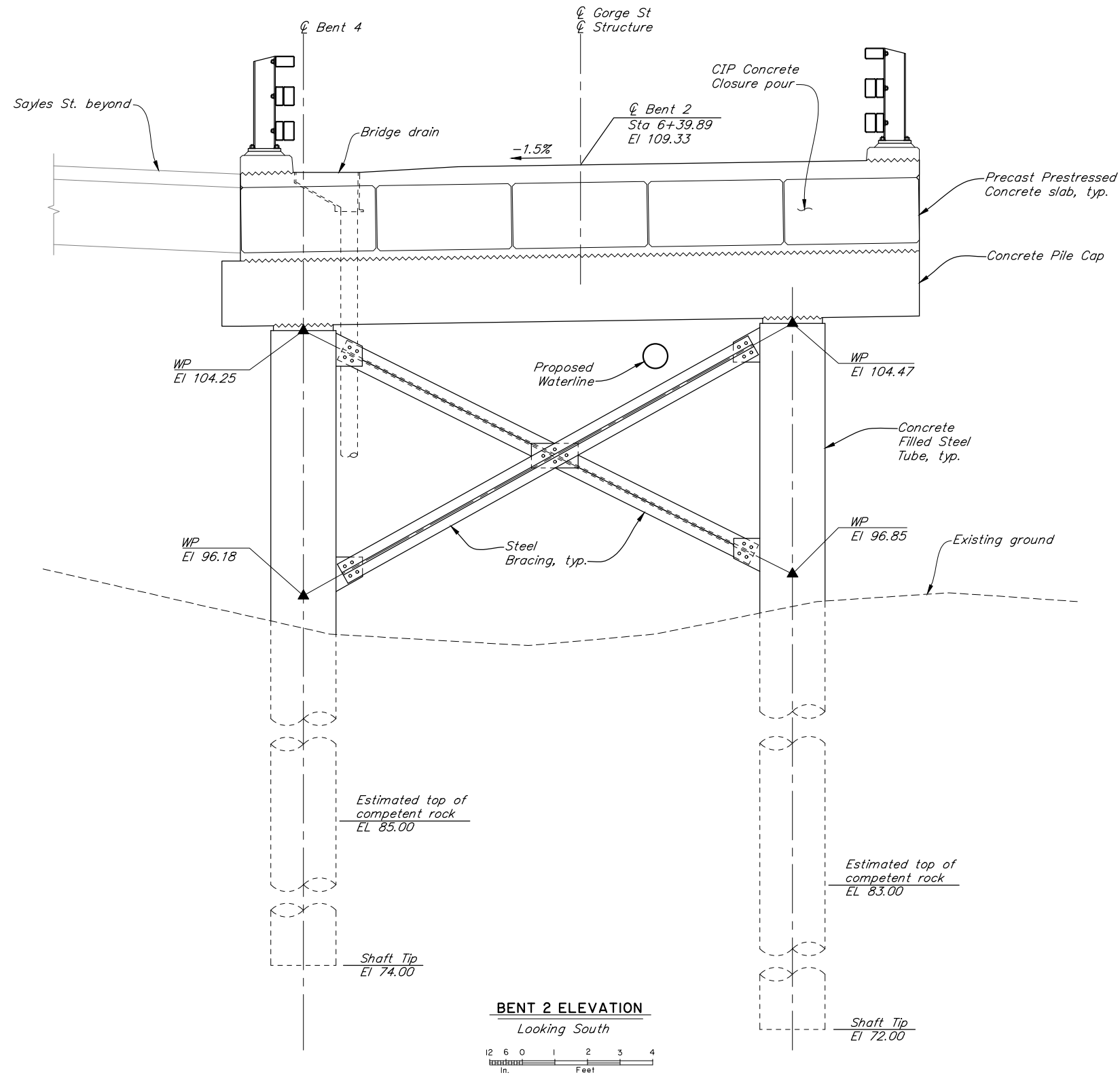
SAYLES ST & GORGE ST

ABUTMENT 1 CAP DETAILS 2



BRIDGE NO. 1841
DWG. NO. 12

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHUY00070	2023	N13	N46



BENT 2 ELEVATION
Looking South

12 6 0 1 2 3 4
In. Feet

09/14/23 | 11:55 AM | RICKT
V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N13 Bent2 Layout.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

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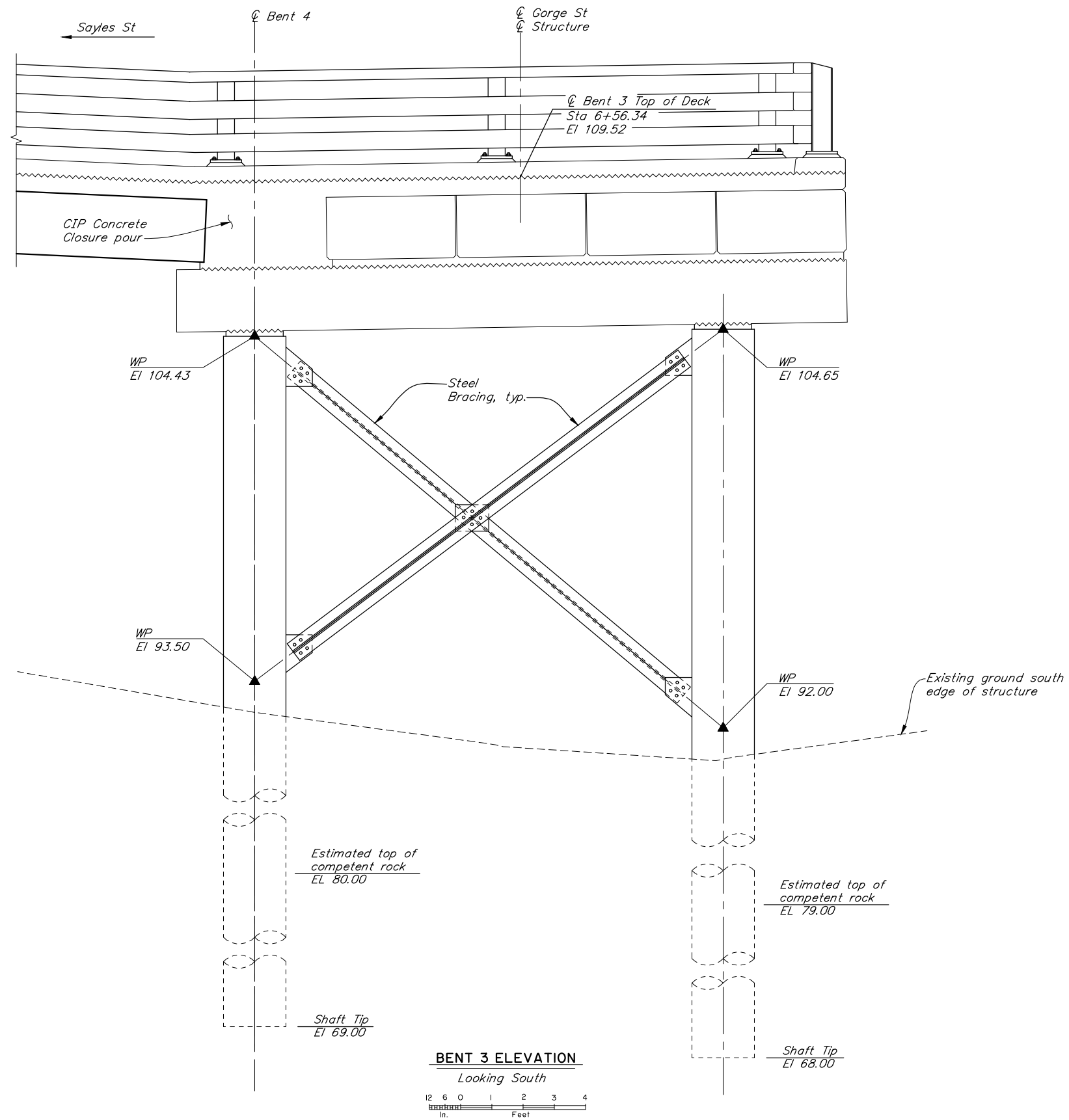


SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BENT 2 LAYOUT



BRIDGE NO. 1841
DWG. NO. 13

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N14	N46



09/13/23 | 7:31 AM | RICKT
 V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N14-Bent3 Layout.dwg

DESIGNED BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>
DRAWN BY: <i>Rick Torgeson</i>	CHECKED: <i>Joshua Pruitt</i>
QUANTITIES BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION
 PLANS DEVELOPED BY:
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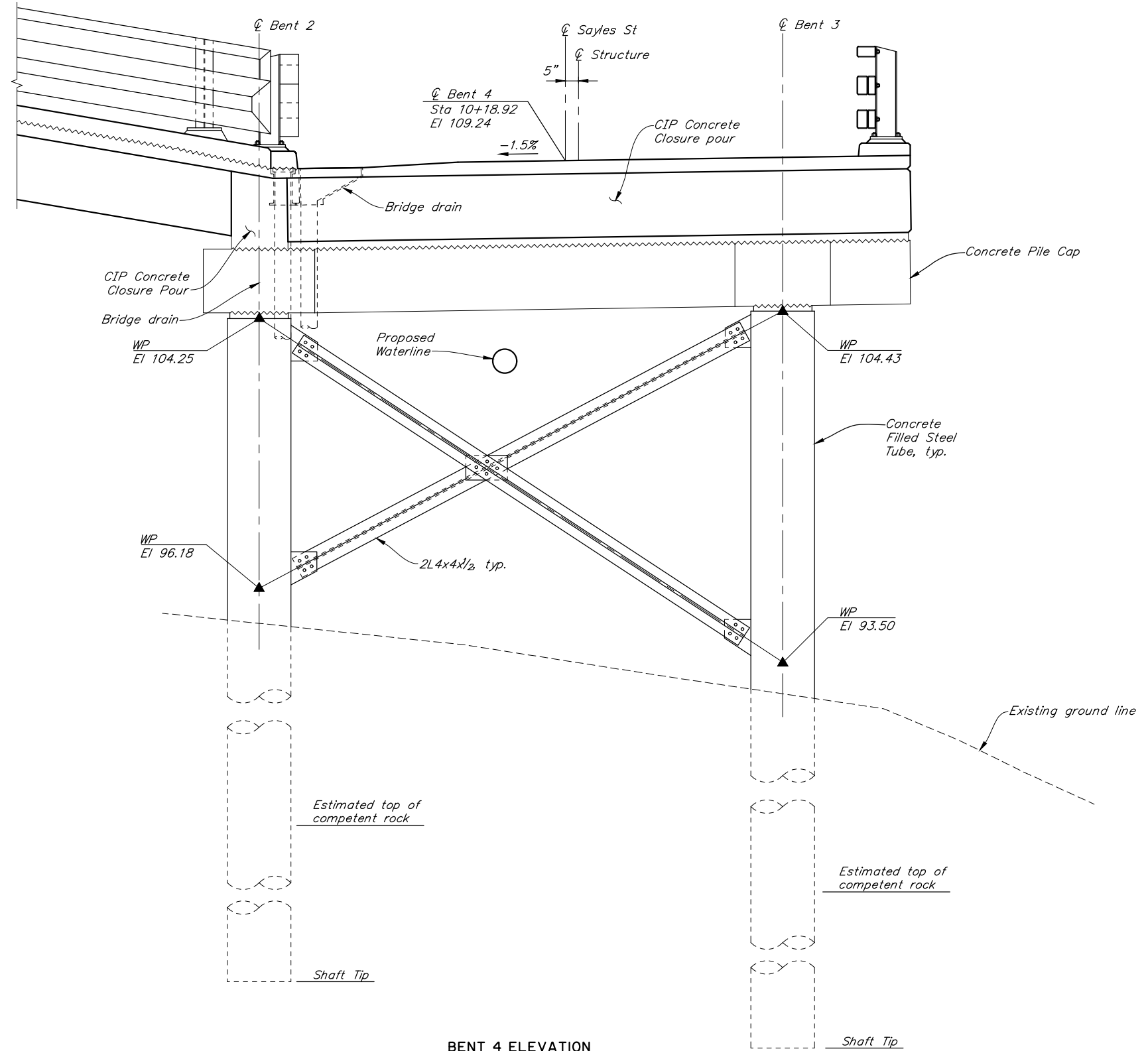


SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
BENT 3 LAYOUT



BRIDGE NO. 1841
 DWG. NO. 14

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHXY00070	2023	N15	N46



BENT 4 ELEVATION
Looking East
12 6 0 1 2 3 4
In. Feet


09/13/23 | 7:32 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N15 Bent 4 Layout.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

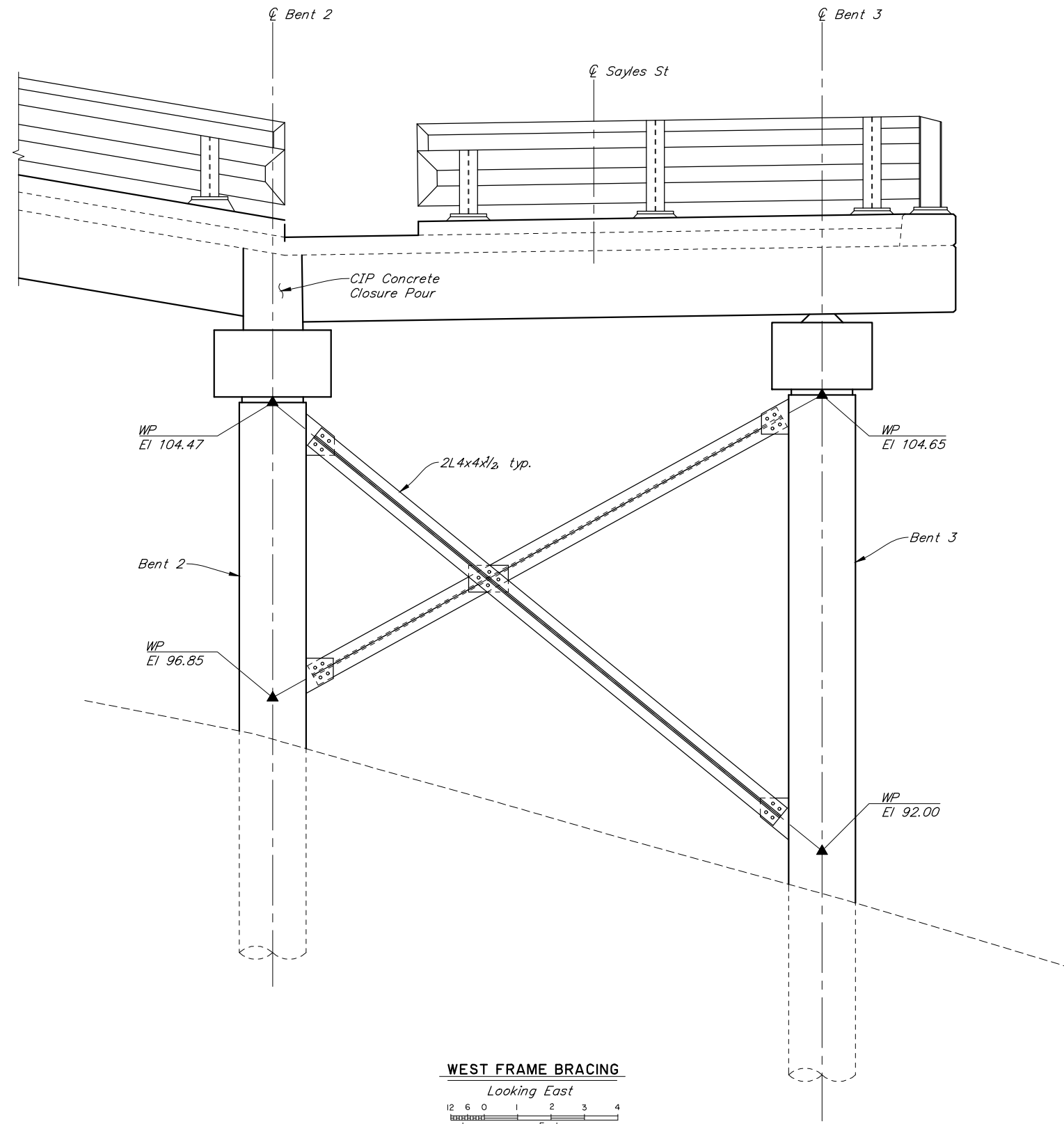
PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION
PLANS DEVELOPED BY:
KPFF ENGINEERING CONSULTING
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(206) 622-5822



SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BENT 4 LAYOUT

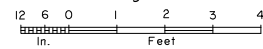

BRIDGE NO. 1841
DWG. NO. 15

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N16	N46



WEST FRAME BRACING

Looking East



09/14/23 | 12:15 PM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N16 Tower View West.dwg

DESIGNED BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>
DRAWN BY: <i>Rick Torgeson</i>	CHECKED: <i>Joshua Pruitt</i>
QUANTITIES BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>

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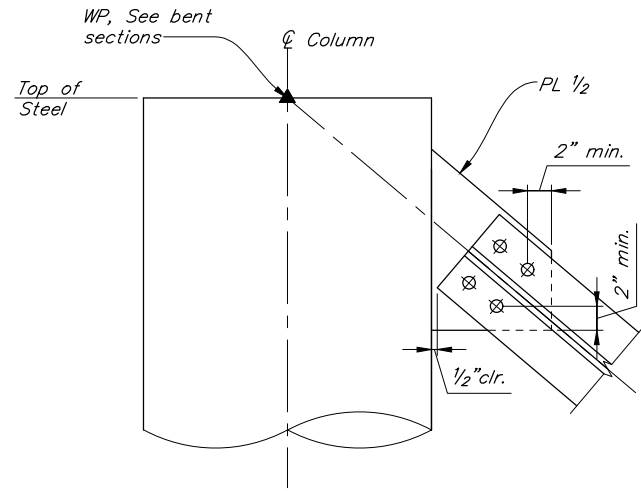


SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
WEST FRAME BRACING

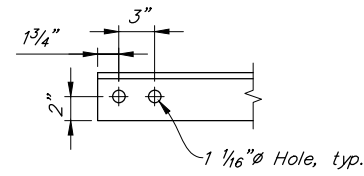


BRIDGE NO. 1841
 DWG. NO. 16

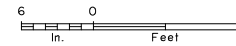
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N17	N46



TOP COLUMN BRACE DETAIL

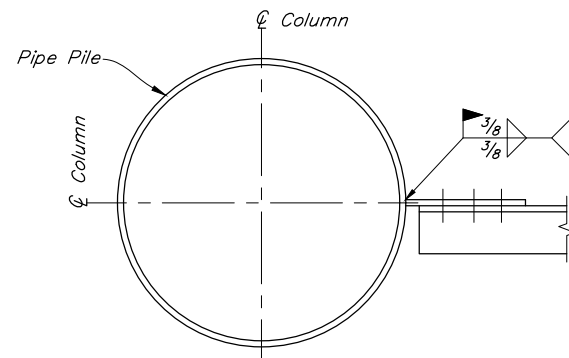


TYPICAL ANGLE BRACE END

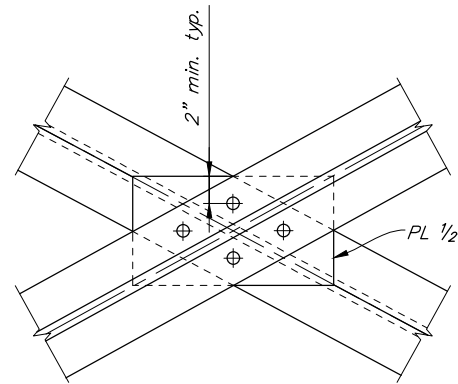
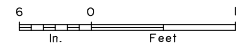


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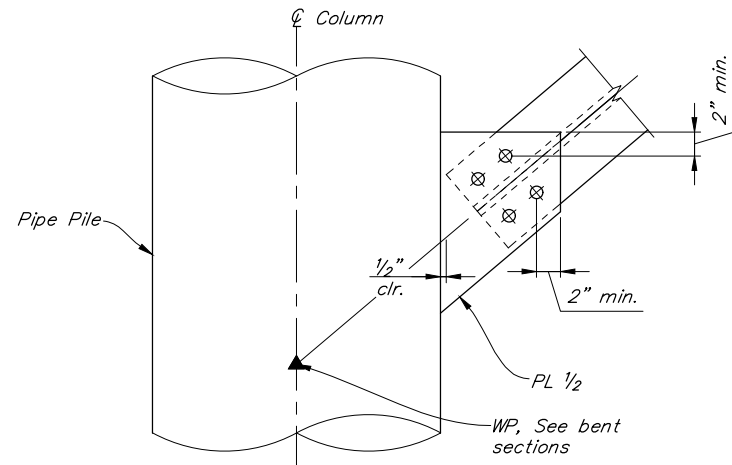
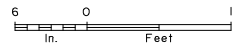
1. All holes to be filled with 1" dia. high strength bolts.



COLUMN BRACE SECTION



CENTER GUSSET DETAIL



BOTTOM COLUMN BRACE DETAIL

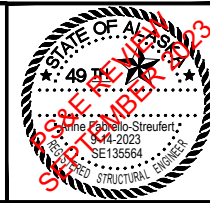


09/14/23 | 12:19 PM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N17 Steel Details.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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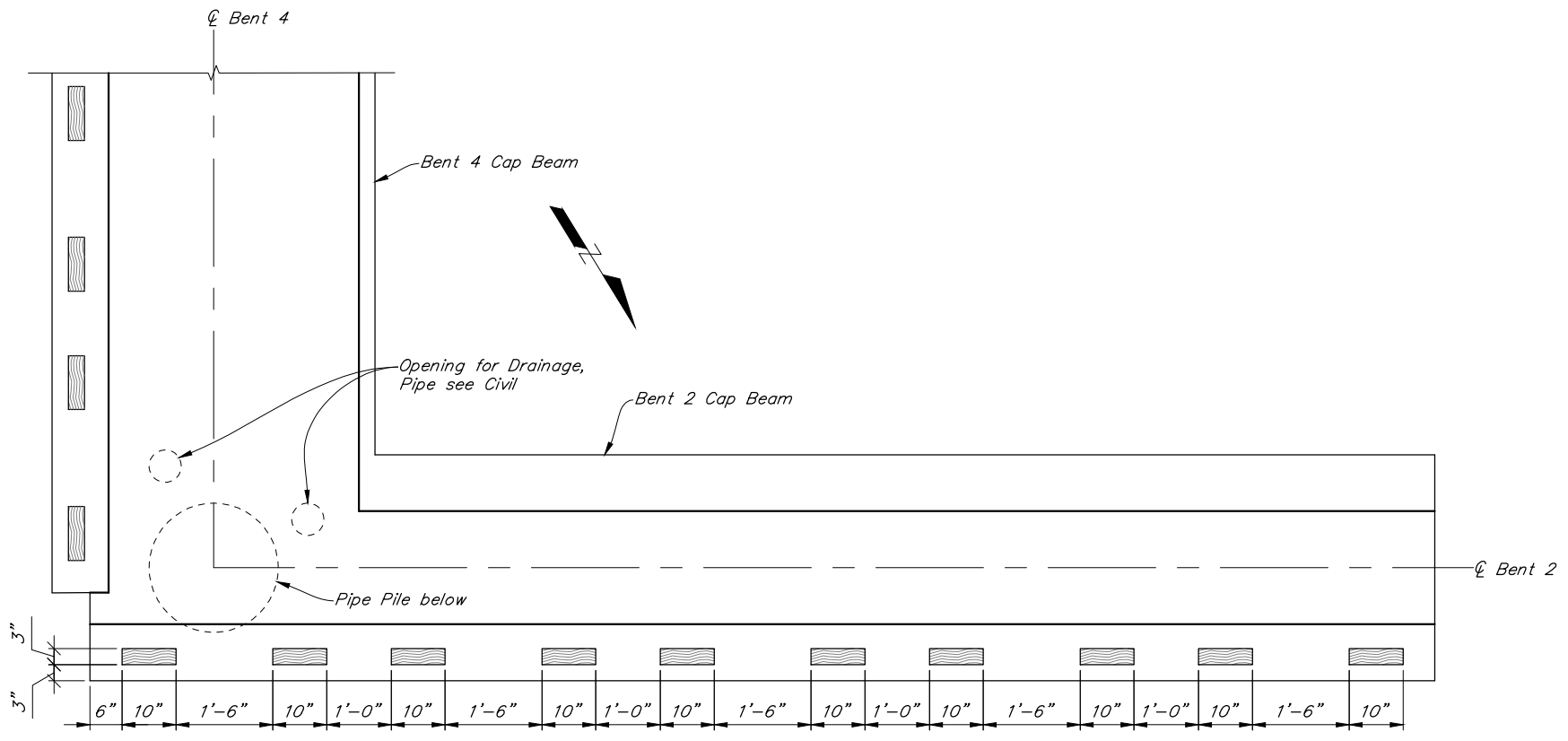


SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
STEEL DETAILS



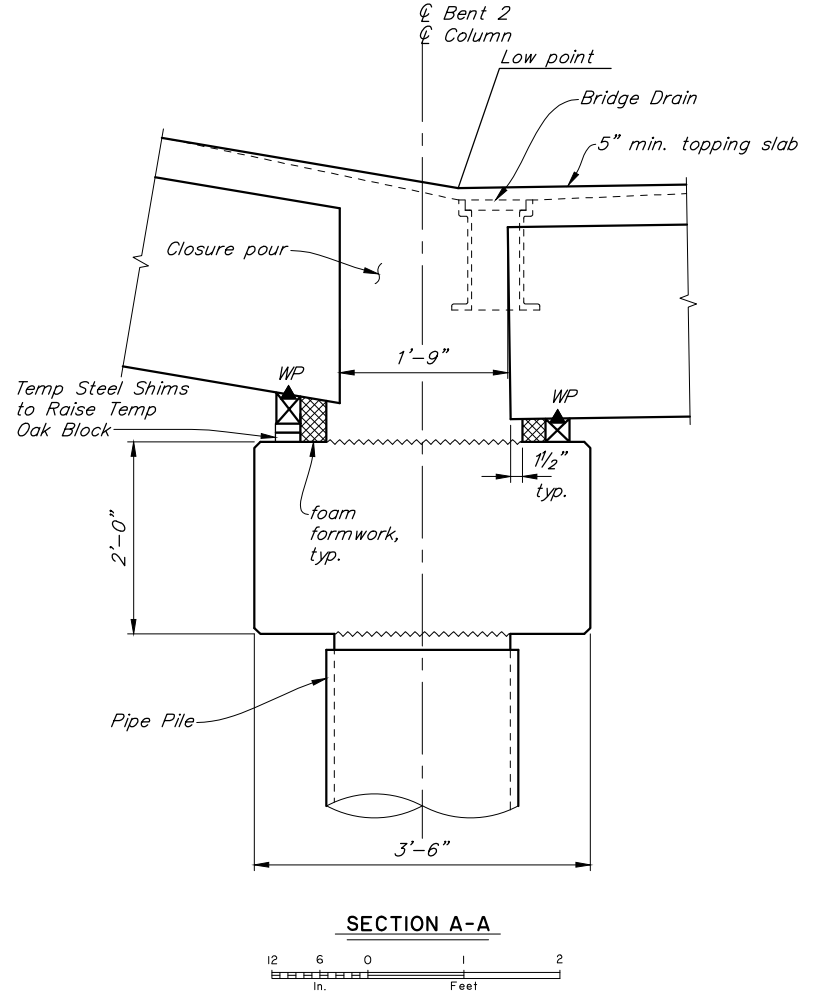
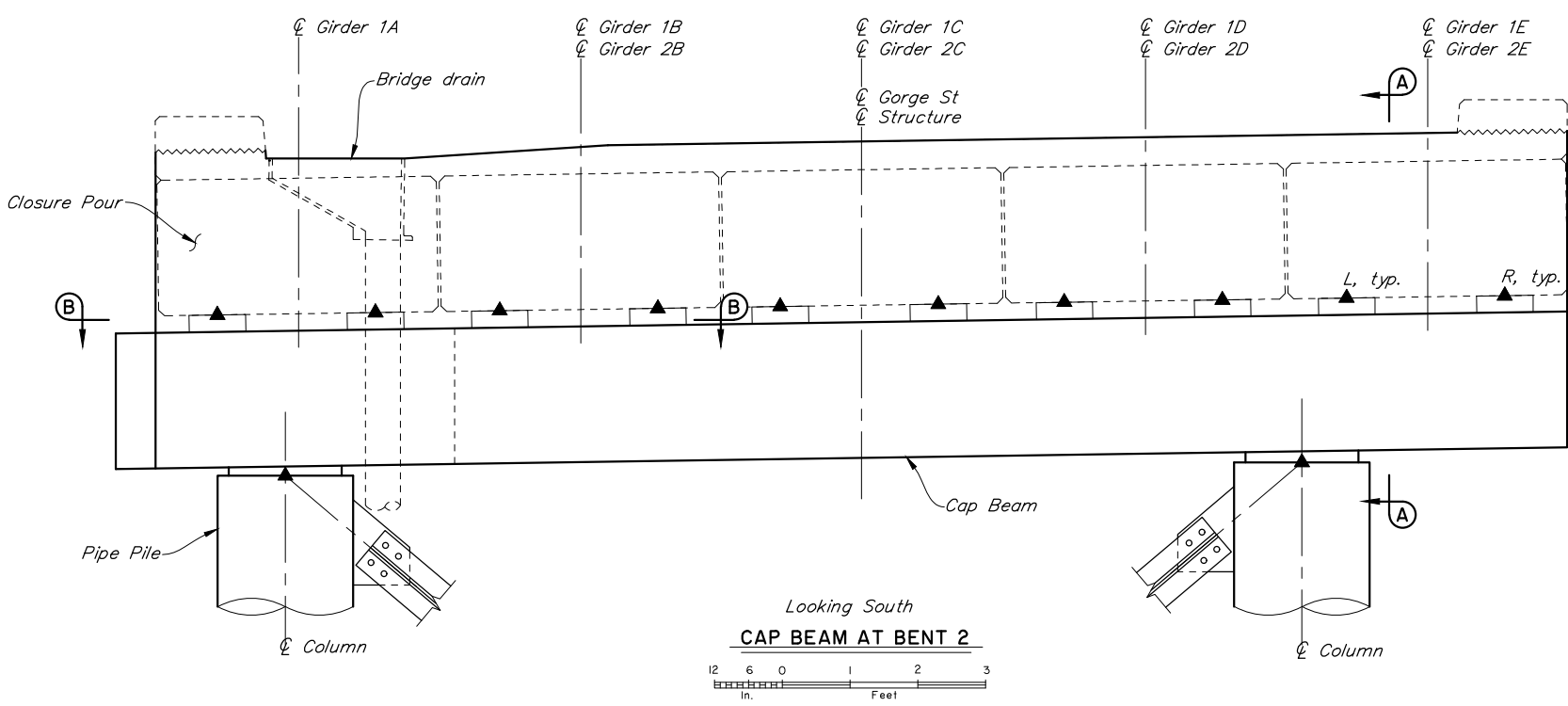
BRIDGE NO. 1841
DWG. NO. 17

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N18	N46



GIRDER BLOCKING ELEVATIONS									
Girder 1A		Girder 1B		Girder 1C		Girder 1D		Girder 1E	
L	R	L	R	L	R	L	R	L	R
106.85	106.89	106.91	106.95	106.98	107.01	107.04	107.07	107.10	107.14

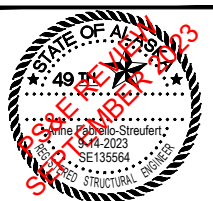
GIRDER BLOCKING ELEVATIONS							
Girder 2B		Girder 2C		Girder 2D		Girder 2E	
L	R	L	R	L	R	L	R
106.63	106.67	106.70	106.73	109.76	106.79	106.82	106.86



09/14/23 | 1:56 PM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N18 Bent2 Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
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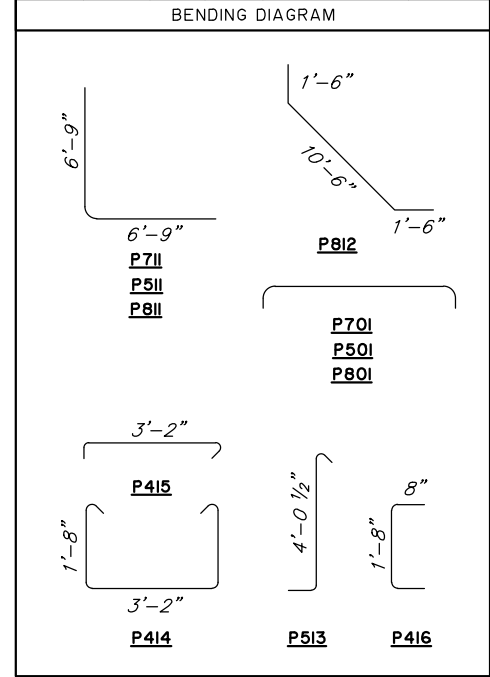


SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
BENT 2 DETAILS 1

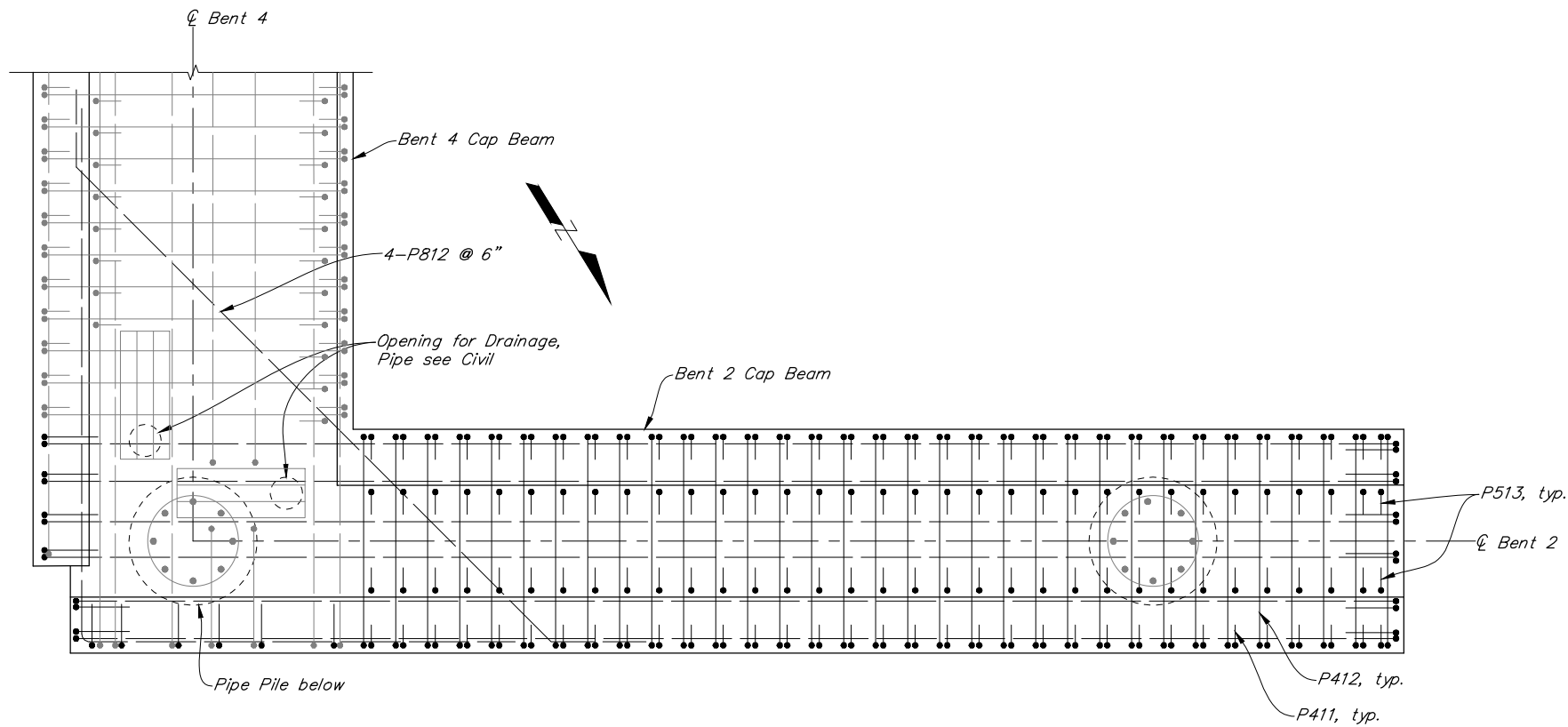

 BRIDGE NO. 1841
 DWG. NO. 18

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N19	N46

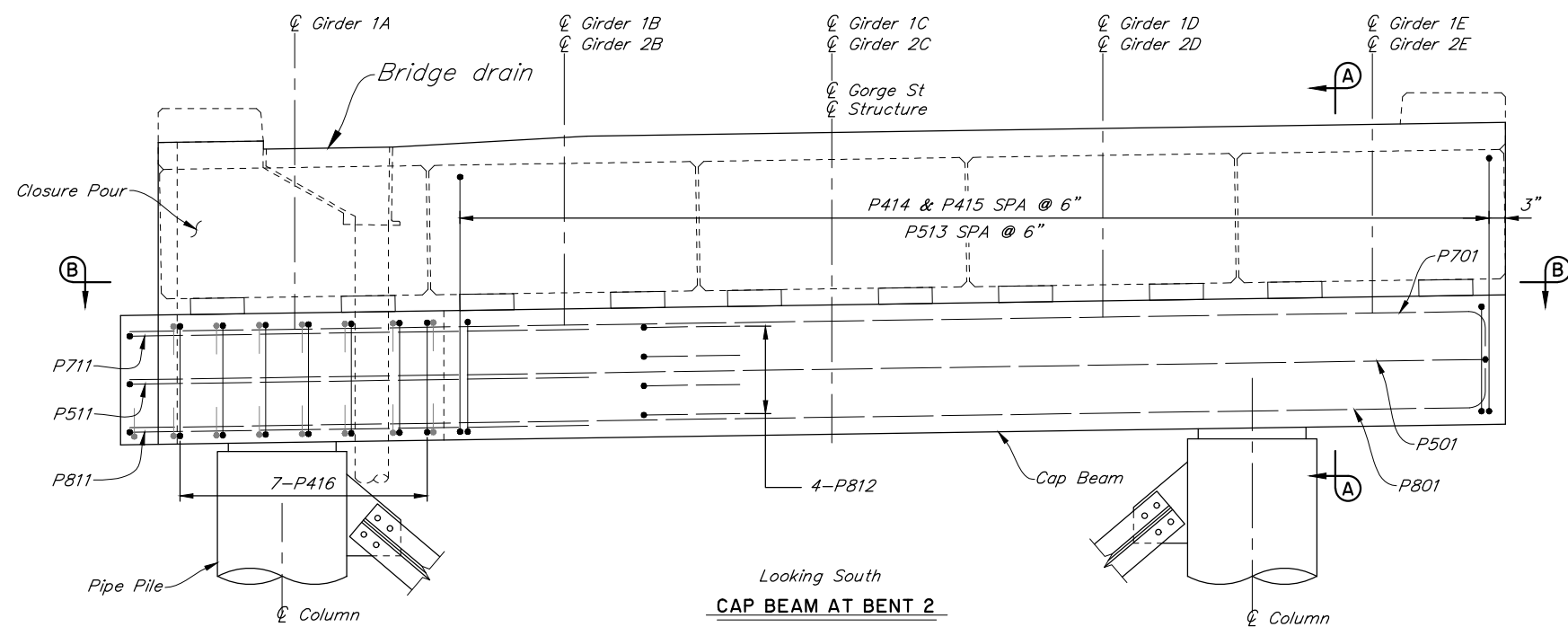
REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P414		4	33	7' - 1"	BENT
P415		4	66	3' - 10"	BENT
P416		4	7	2' - 10"	BENT
P501		5	2	22' - 3"	BENT
P511		5	1	19' - 10"	BENT
P513		5	66	4' - 10"	BENT
P701		7	6	22' - 10"	BENT
P711		7	1	19' - 10"	BENT
P801		8	6	23' - 1"	BENT
P811		8	1	19' - 9"	BENT
P812		8	4	13' - 5"	BENT



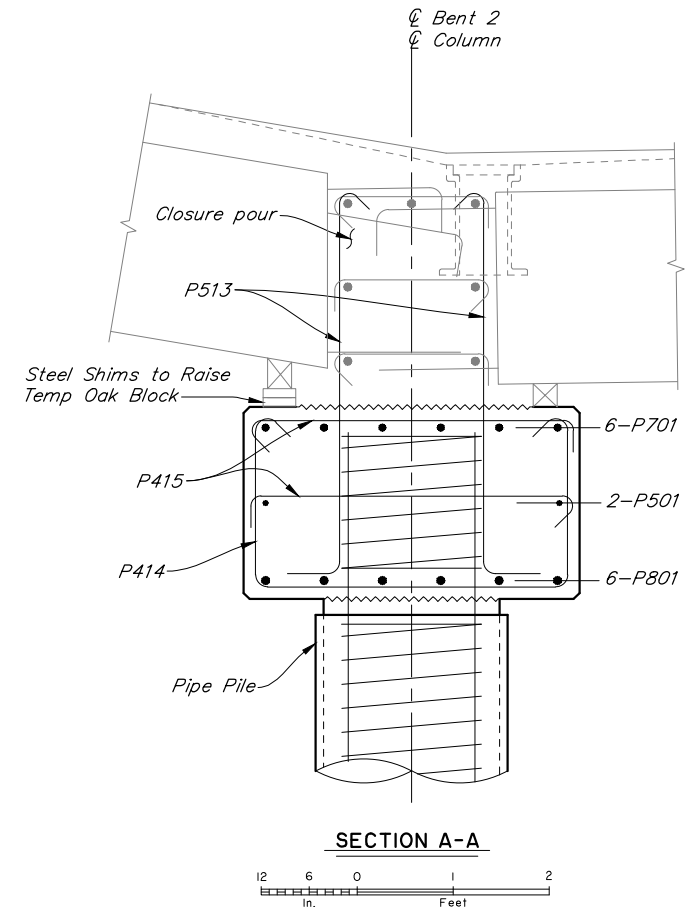
E = Epoxy coated reinforcing steel
 S = Spliced permitted. Length does not include splices.



PLAN VIEW B-B



Looking South
CAP BEAM AT BENT 2



SECTION A-A

09/15/23 | 3:20 PM | Joshp V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N19 Bent2 Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

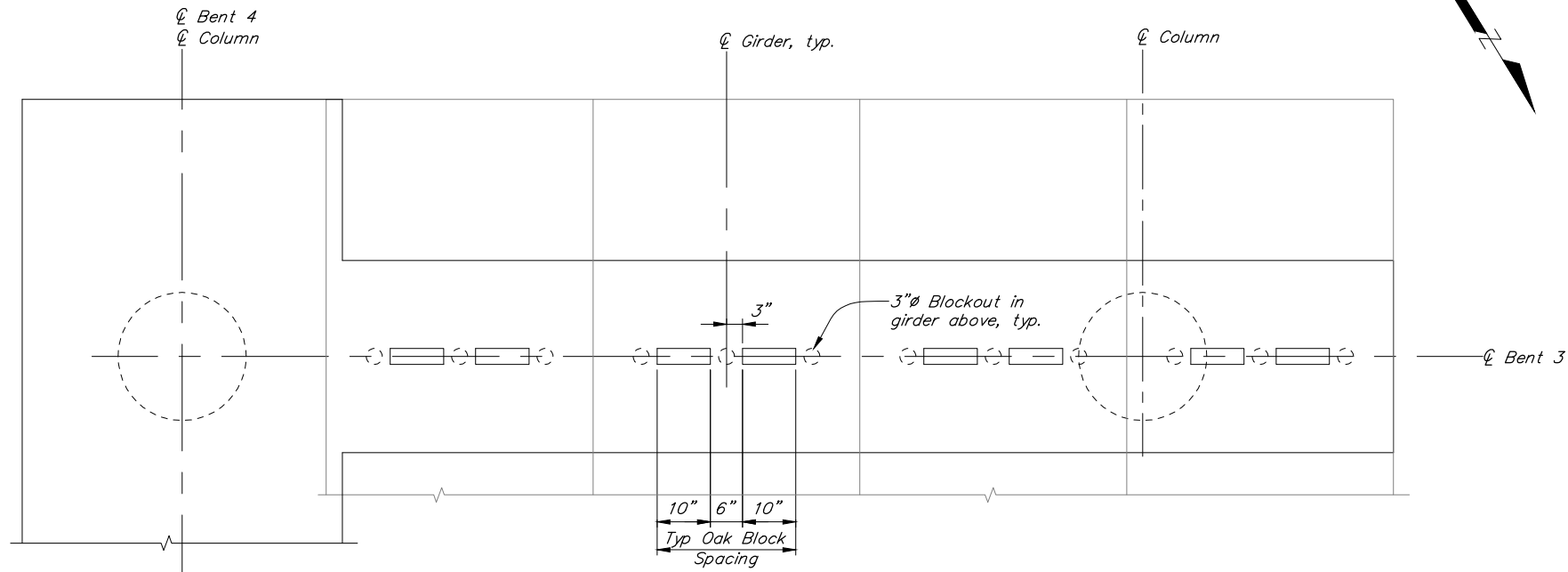
PLANS DEVELOPED BY:
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 (206) 622-5822



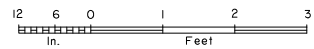
SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
BENT 2 DETAILS 2

BRIDGE NO. 1841
 DWG. NO. 19

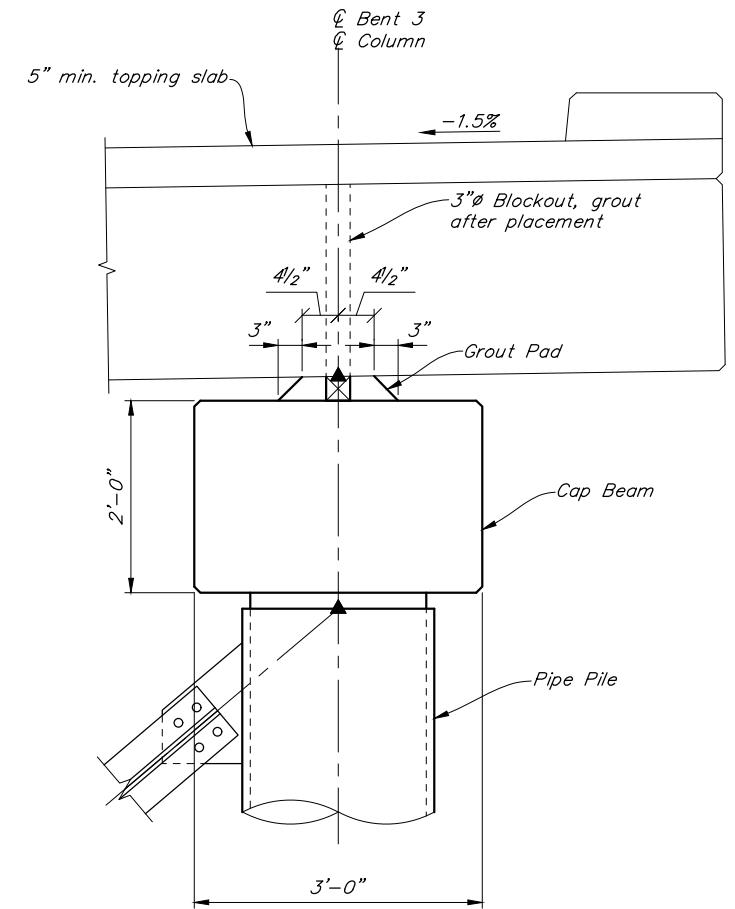
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N20	N46



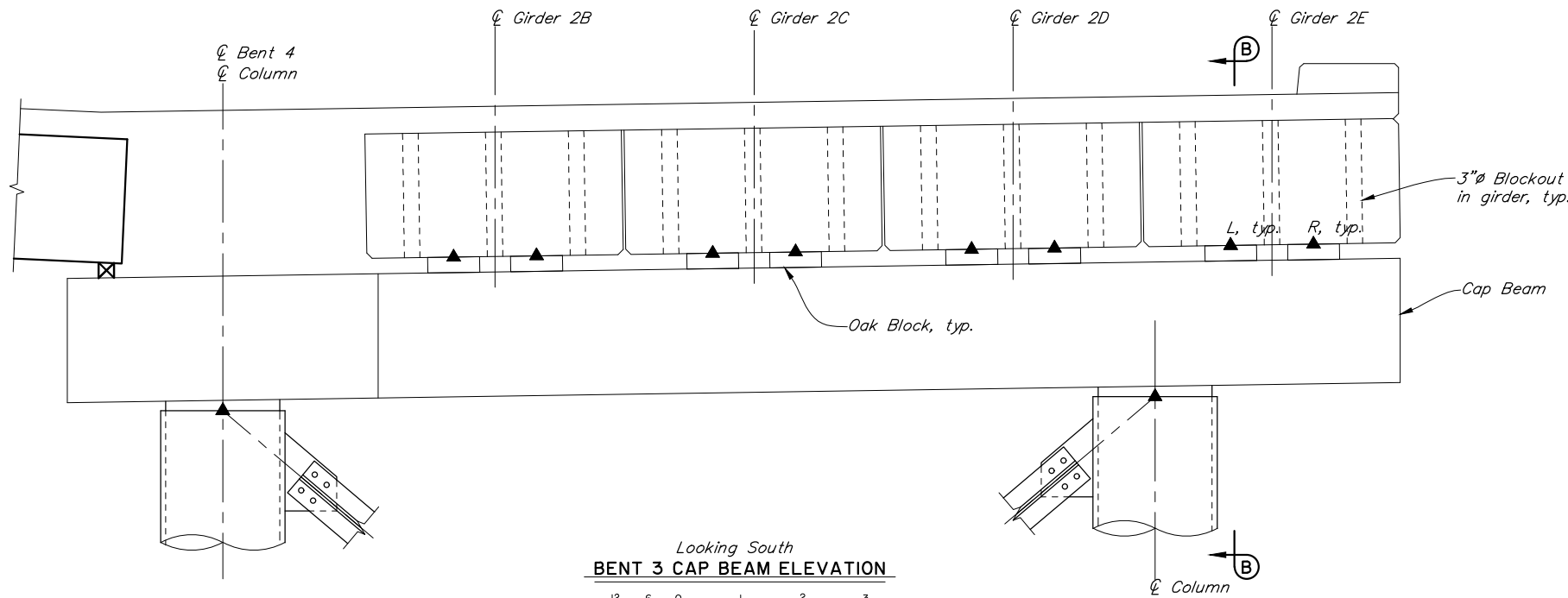
BENT 3 CAP BEAM PLAN



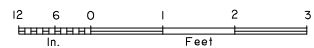
GIRDER BLOCKING ELEVATIONS							
Girder 2B		Girder 2C		Girder 2D		Girder 2E	
L	R	L	R	L	R	L	R
106.87	106.89	106.93	106.95	106.99	107.01	107.05	107.07



SECTION B-B



BENT 3 CAP BEAM ELEVATION

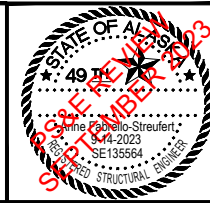


09/14/23 | 1:54 PM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N20 Bent3 Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

PLANS DEVELOPED BY:
KPFF ENGINEERING CONSULTING
1601 5th Ave, Suite 1600, Seattle, WA 98101
(206) 622-5822

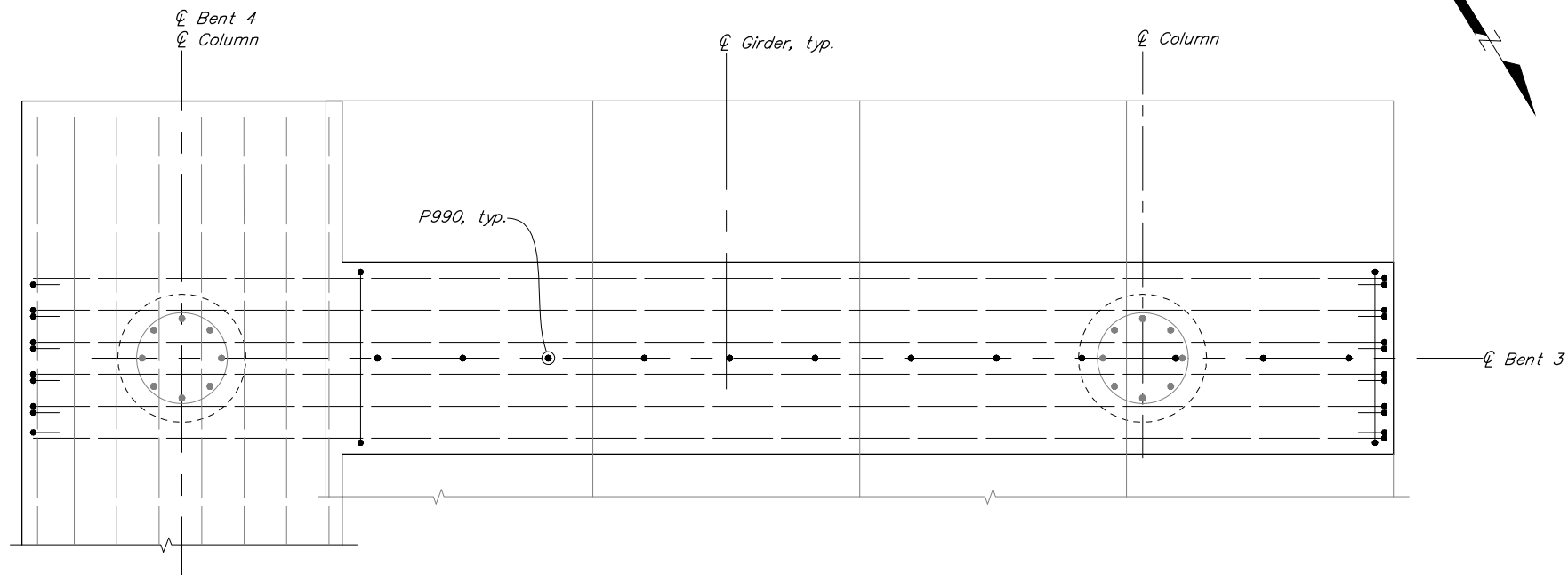


SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BENT 3 DETAILS 1

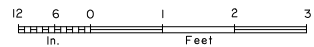


BRIDGE NO. 1841
DWG. NO. 20

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N21	N46

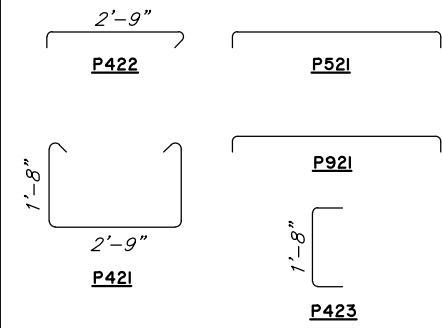


BENT 3 CAP BEAM PLAN

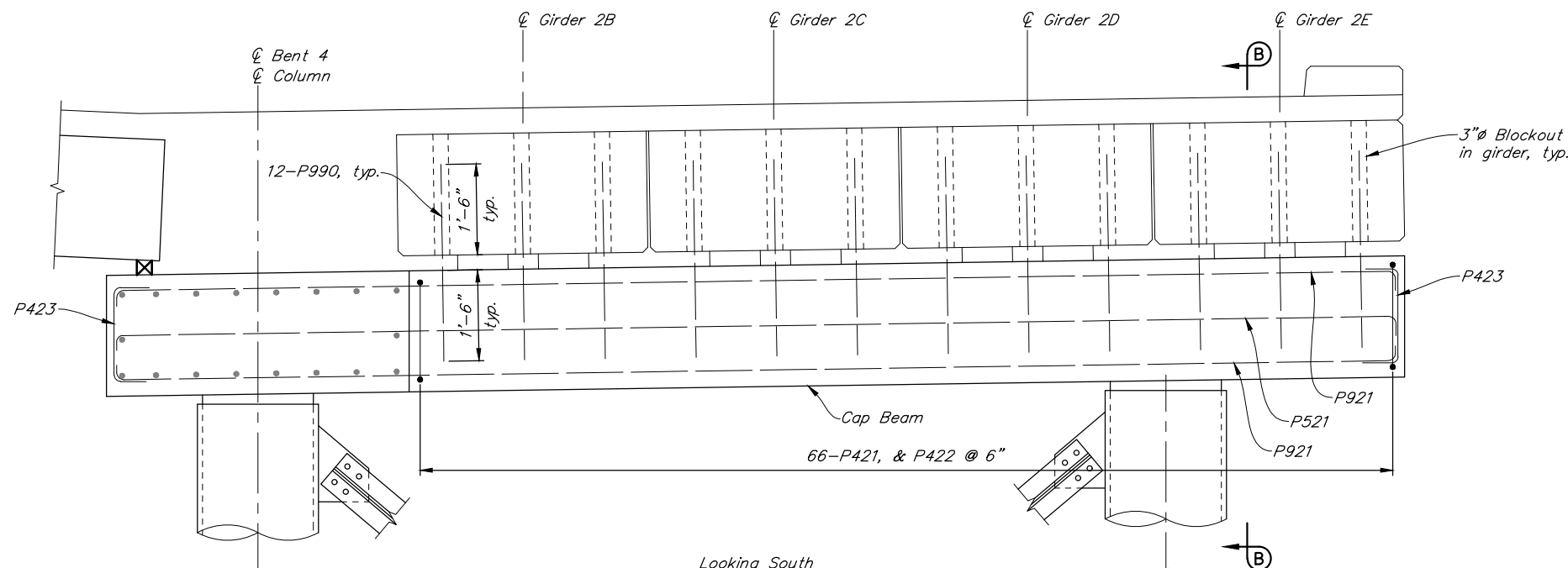


REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P421		4	33	6' - 9"	BENT
P422		4	66	3' - 4"	BENT
P423		4	12	2' - 3"	BENT
P521		5	2	22' - 6"	BENT
P921		9	12	23' - 9"	BENT
P990		9	12	3' - 3"	

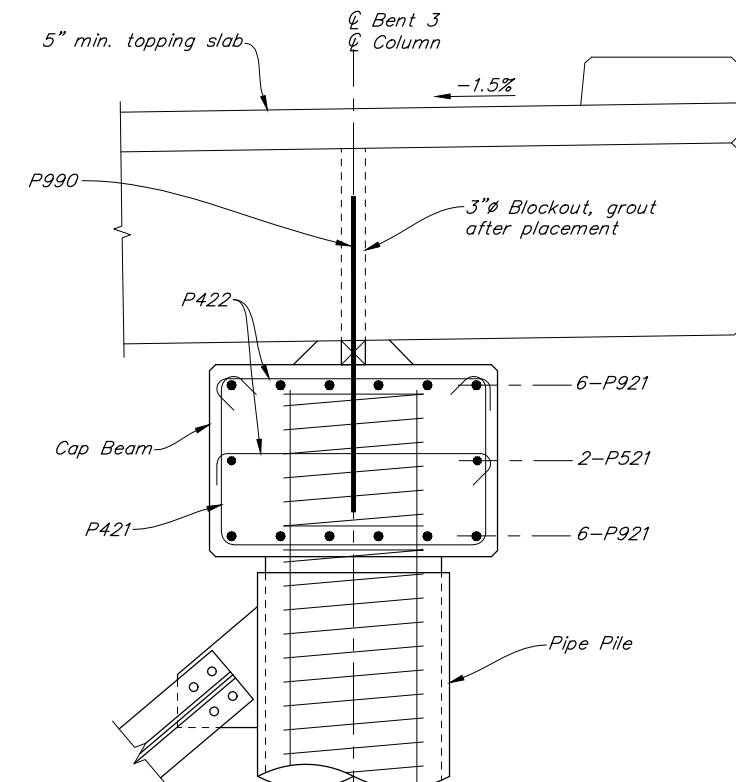
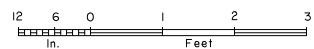
BENDING DIAGRAM



E = Epoxy coated reinforcing steel
S = Spliced permitted. Length does not include splices.



BENT 3 CAP BEAM ELEVATION
Looking South



SECTION B-B




09/15/23 | 3:23 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N21 Bent3 Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

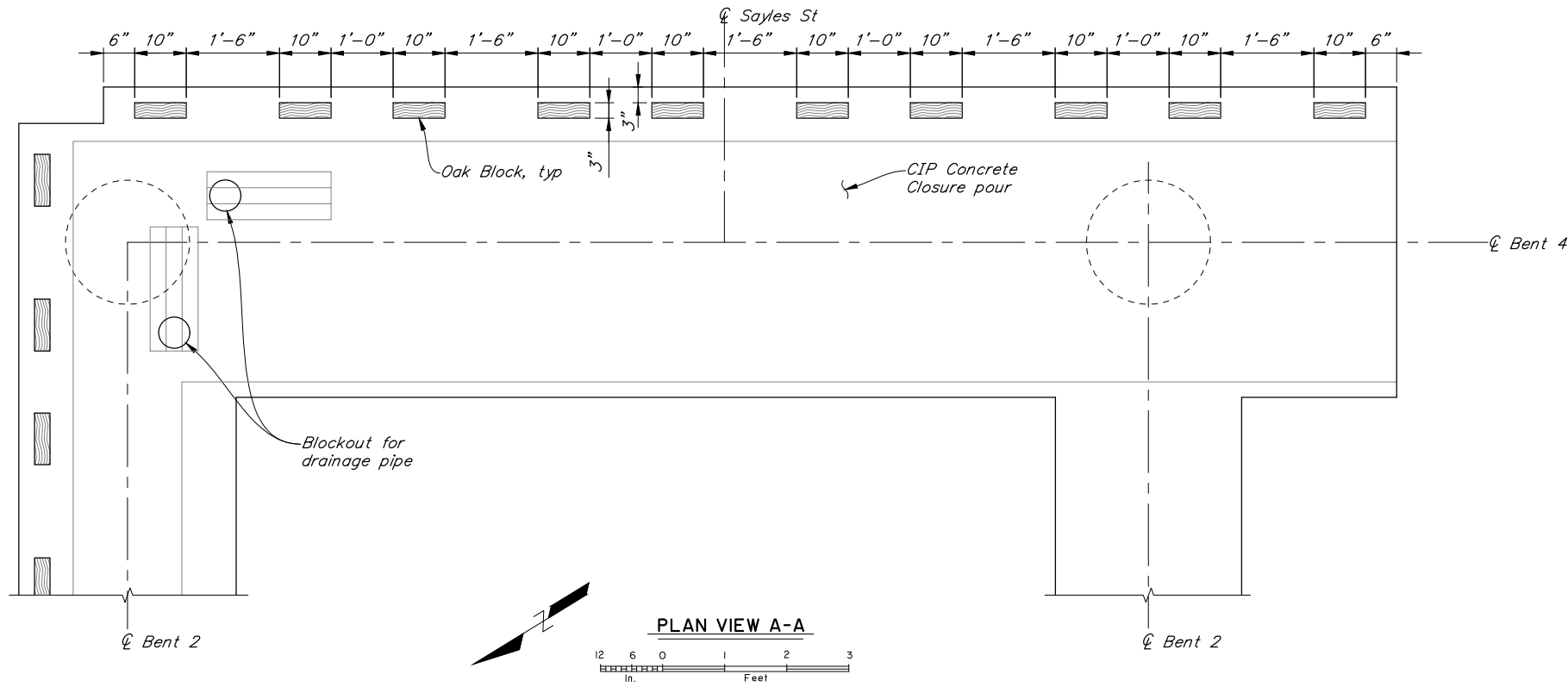
PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION
PLANS DEVELOPED BY:
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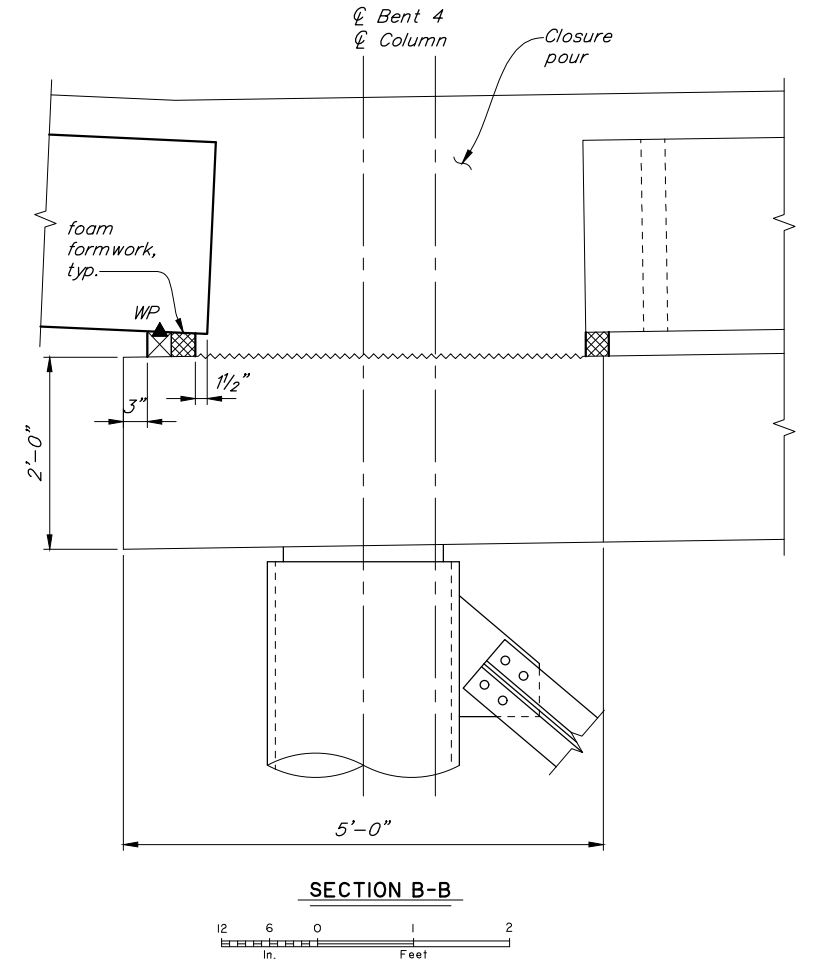
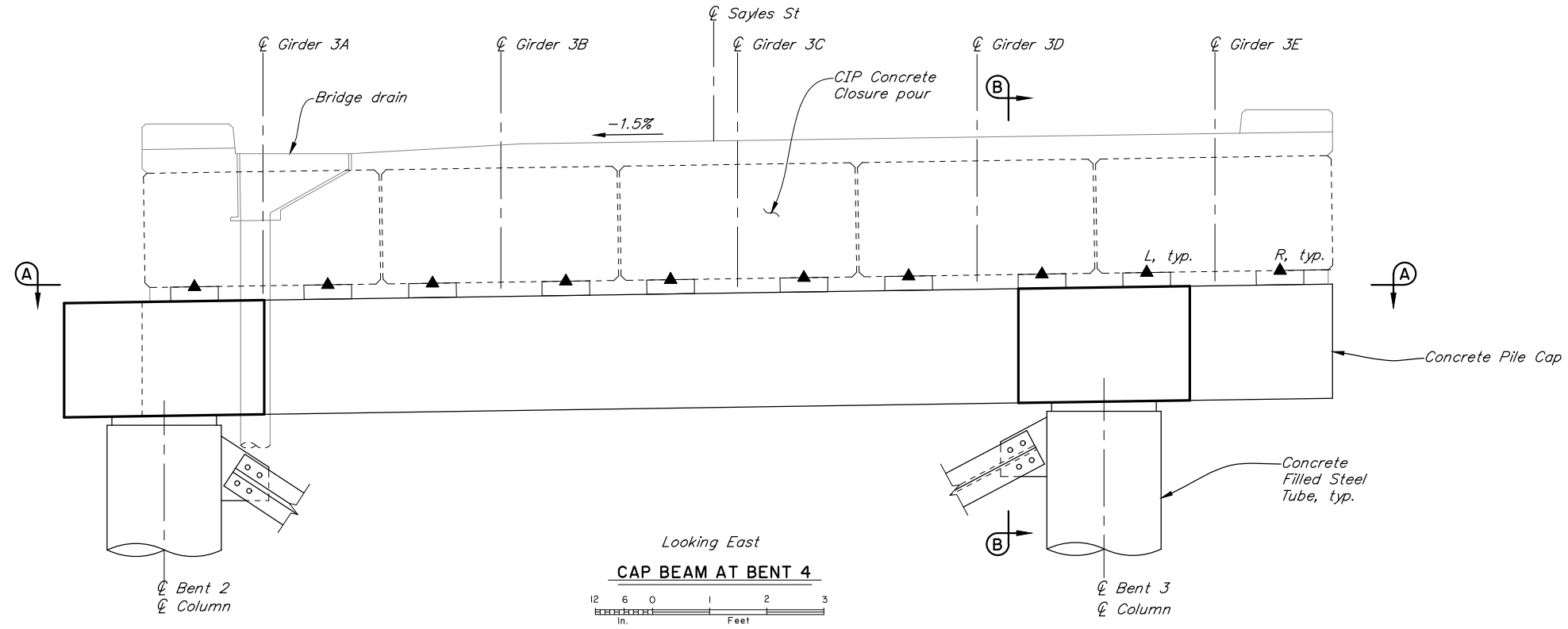
SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BENT 3 DETAILS 2


BRIDGE NO. 1841
DWG. NO. 21

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N22	N46



Girder 3A		Girder 3B		Girder 3C		Girder 3D		Girder 3E	
L	R	L	R	L	R	L	R	L	R
106.79	106.82	106.85	106.88	106.91	106.95	106.97	107.01	107.04	107.07



09/14/23 | 1:58 PM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N22-Bent4 Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
BENT 4 DETAILS 1

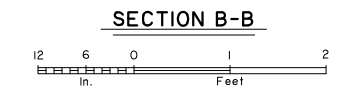
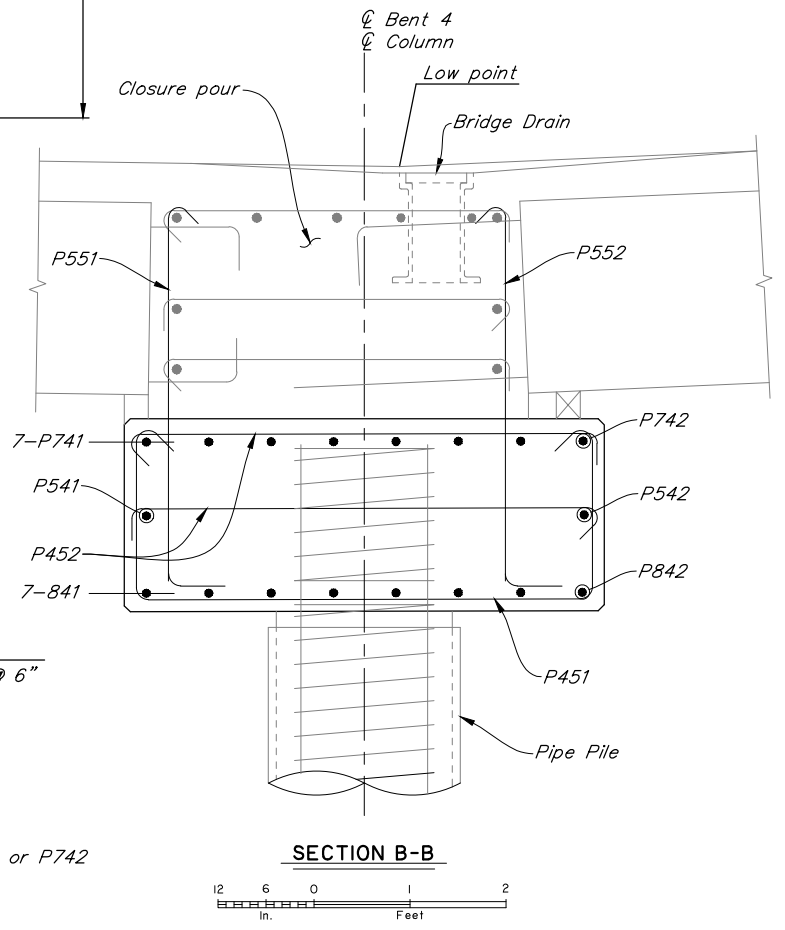
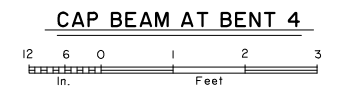
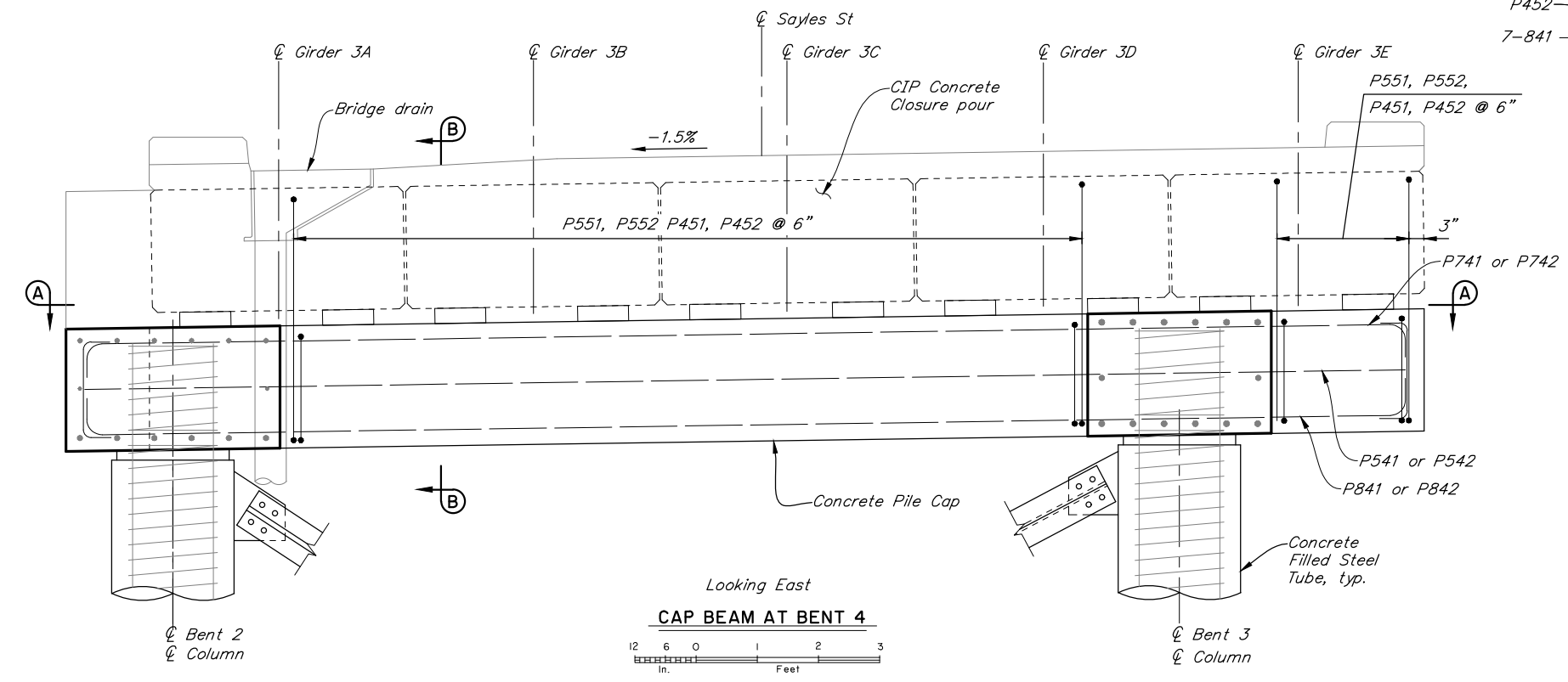
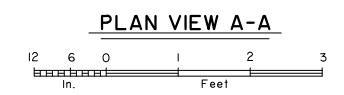
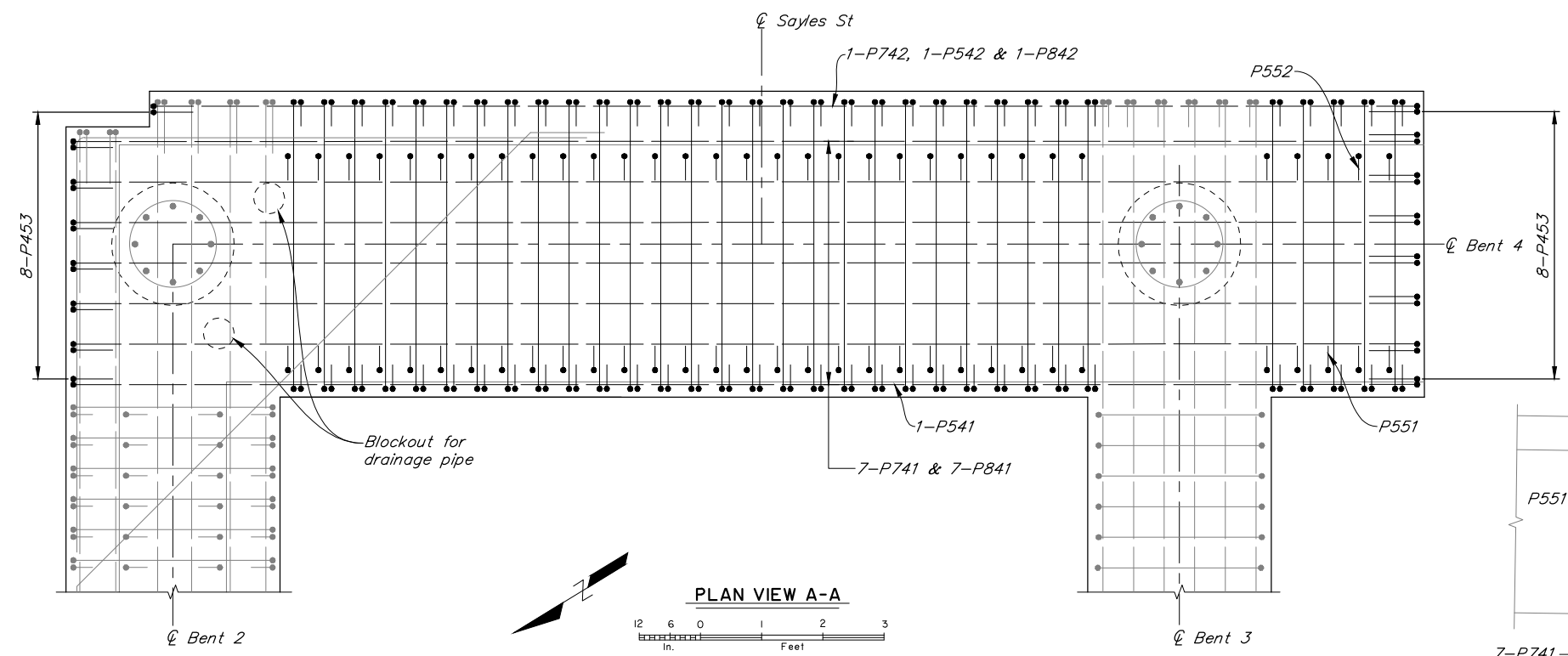

 BRIDGE NO. 1841
 DWG. NO. 22

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N23	N46

REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P451		4	32	8' - 5"	BENT
P452		4	64	5' - 4"	BENT
P453		4	16	2' - 8"	BENT
P541		5	1	23' - 2"	BENT
P542		5	1	21' - 9"	BENT
P551		5	32	4' - 8"	BENT
P552		5	32	4' - 8"	BENT
P741		7	7	23' - 9"	BENT
P742		7	1	22' - 4"	BENT
P841		8	7	23' - 12"	BENT
P842		8	1	22' - 7"	BENT

BENDING DIAGRAM			
P741 P541 P841			
P742 P542 P842	P551	P552	
4'-8"			
P452			
1'-7"			
4'-8"			
P451			P453

E = Epoxy coated reinforcing steel
S = Spliced permitted. Length does not include splices.

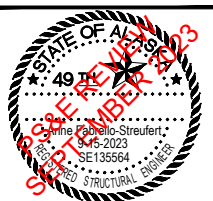


09/15/23 | 3:24 PM | Joshhp V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N23-Bent 4 Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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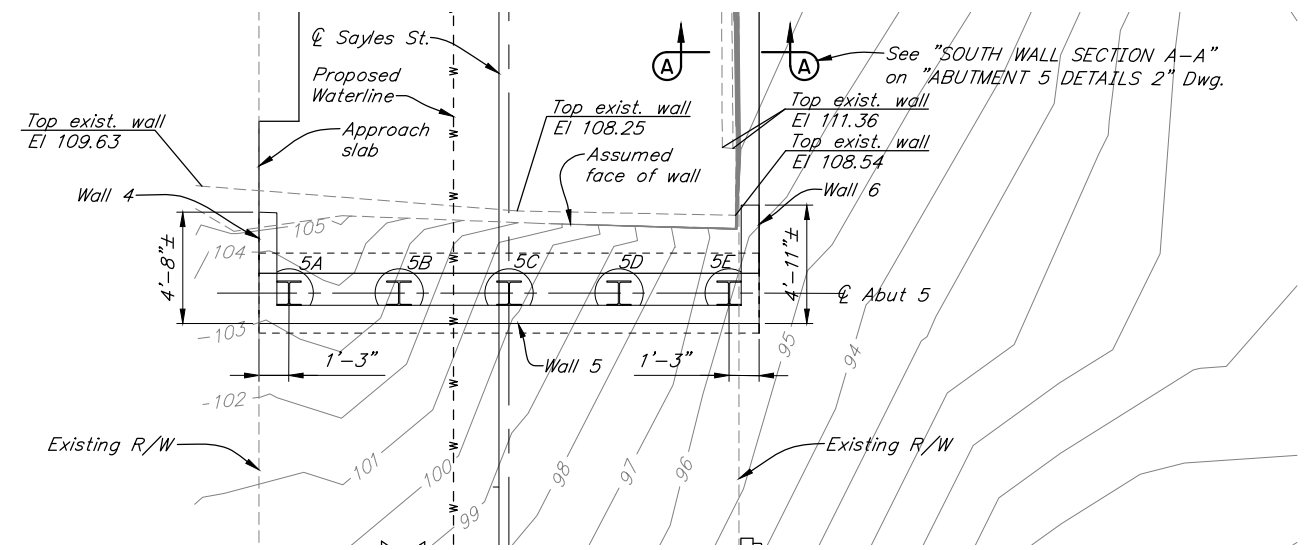
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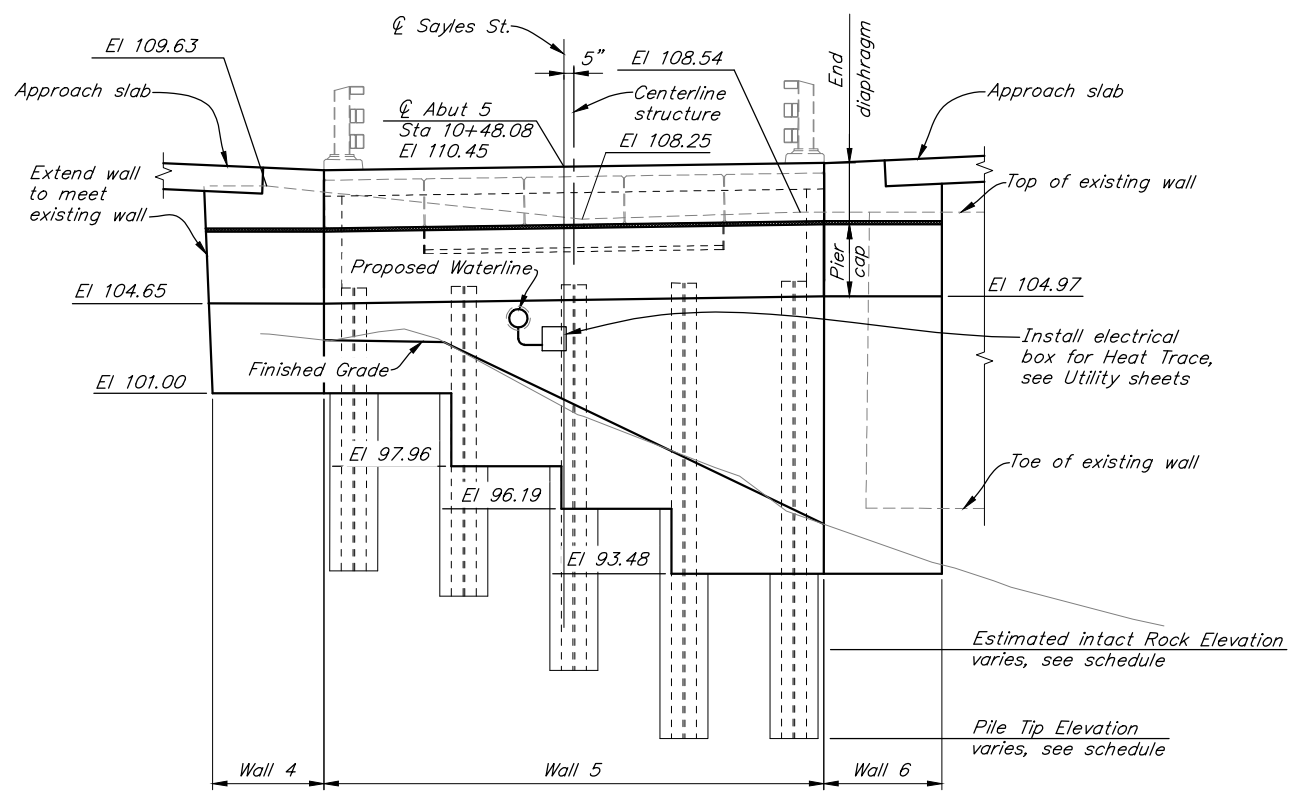
SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
BENT 4 DETAILS 2

BRIDGE NO. 1841
DWG. NO. 23

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N24	N46



ABUTMENT 5 PLAN
 12 0 2 4 6 8
 In. Feet



ABUTMENT 5 DEVELOPED ELEVATION
 12 0 2 4 6 8
 In. Feet

09/14/23 | 1:10 PM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N24-Abutment 5 Layout.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

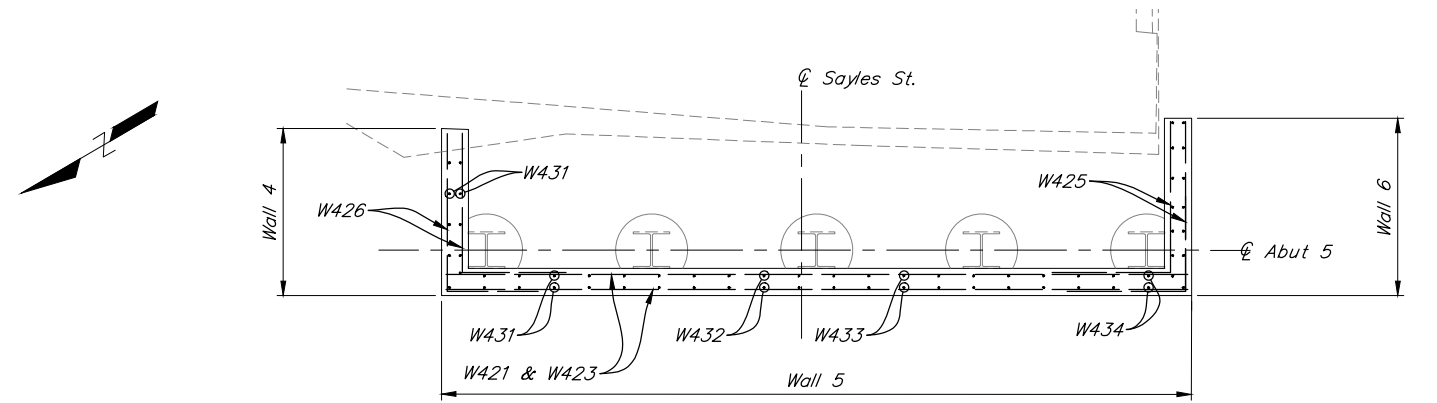
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SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
ABUTMENT 5 LAYOUT

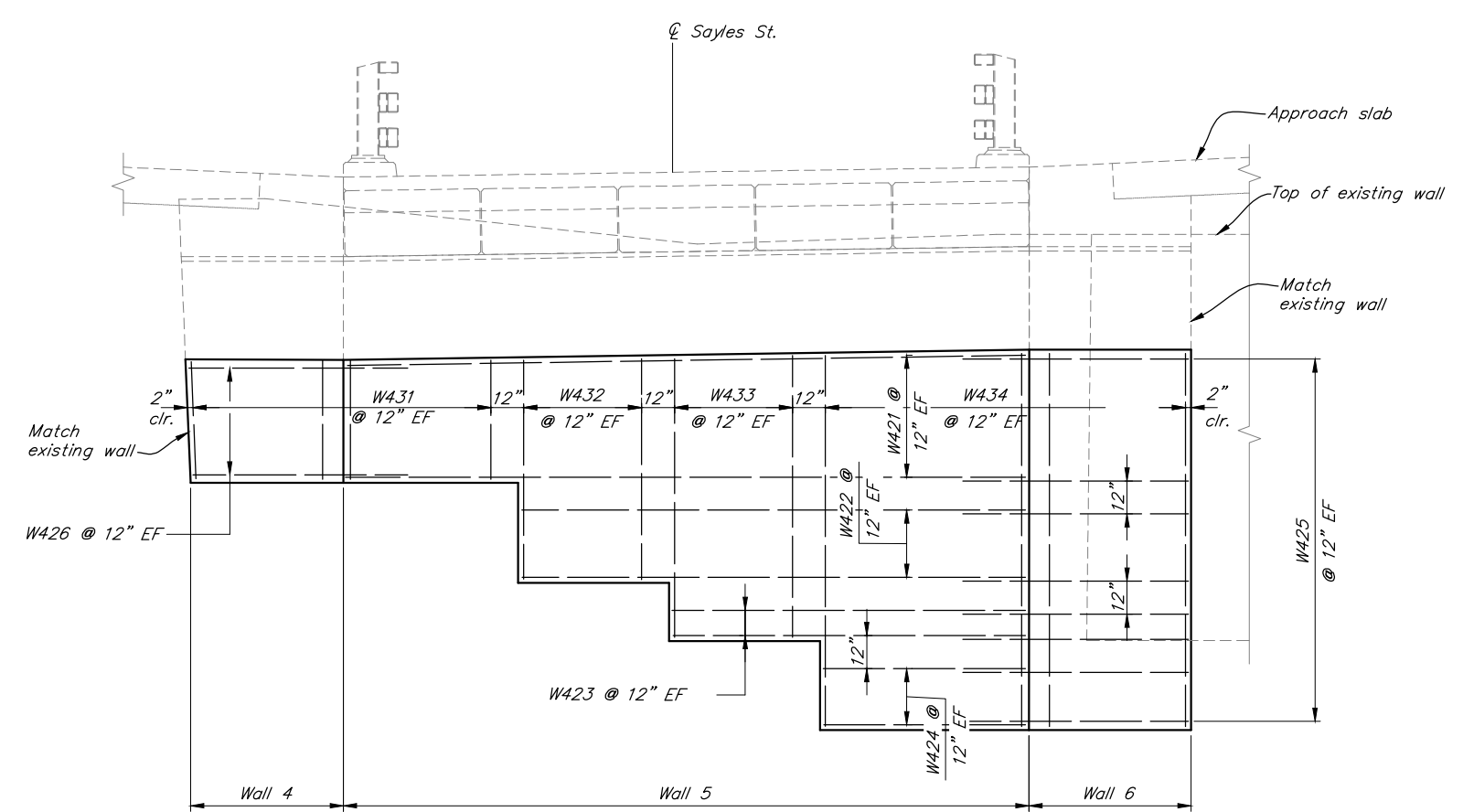
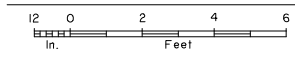


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N25	N46



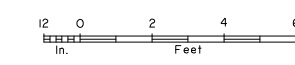
Note: For information not shown, see dwg. "ABUTMENT 5 LAYOUT"

ABUTMENT 5 FASCIA PLAN



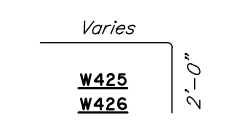
Note: For information not shown, see dwg. "ABUTMENT 5 LAYOUT"

ABUTMENT 5 FASCIA DEVELOPED ELEVATION



REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
W421		4	10	20' - 6"	
W422		4	6	15' - 2"	
W423		4	4	10' - 7"	
W424		4	6	6' - 0"	
W425	V	4	24	6' - 8"	BENT
W426	V	4	8	6' - 8"	BENT
W431		4	20	3' - 6"	
W432		4	10	6' - 6"	
W433		4	10	8' - 4"	
W434		4	24	11' - 2"	

BENDING DIAGRAM



Note: All dimensions are out to out.

09/15/23 | 4:07 PM | Joshp V:\1800239\Sayles-Gorge Viaduct\02_Design (v2019)\1841-N25 Abutment 5 Fascia.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 5 FASCIA



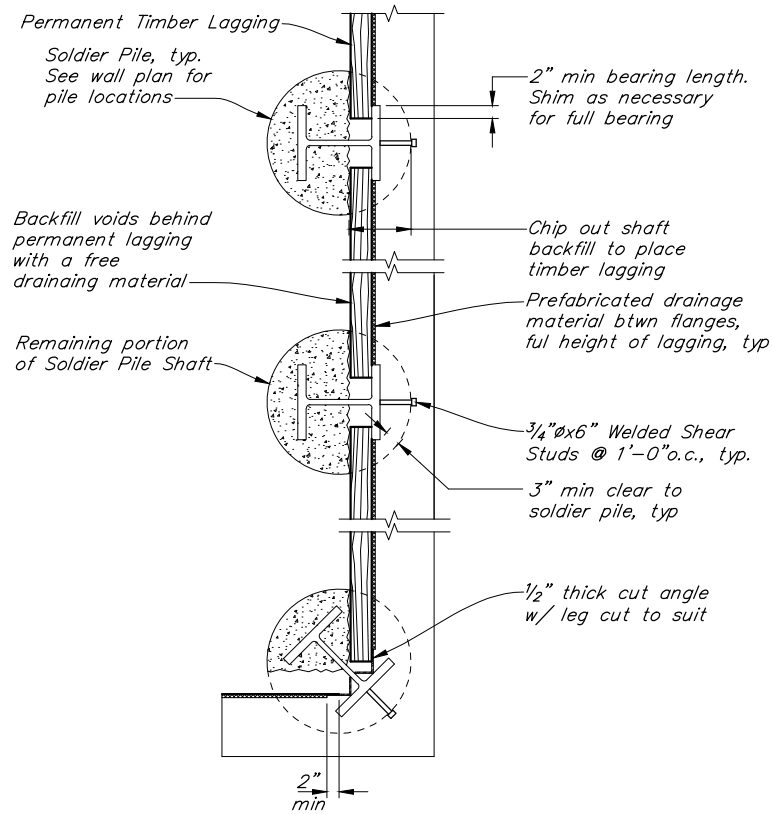
SOLDIER PILE SCHEDULE						
Wall	Pile mark	Pile size	Shaft diameter	PILE ELEVATION		
				Top	Estimated Tip*	Estimated Top intact rock
4	5A	W12x106	2'-0"	106.00	82.00	92.00
4	5B	W12x106	2'-0"	106.00	82.00	92.00
4	5C	W12x106	2'-0"	106.00	81.00	91.00
4	5D	W12x106	2'-0"	106.00	80.00	90.00
4	5E	W12x106	2'-0"	106.00	79.00	89.00

SOLDIER PILE NOTES:

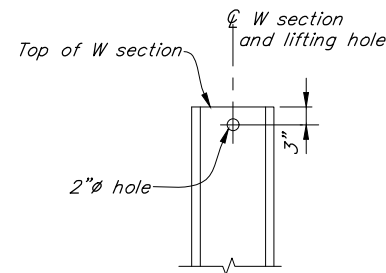
- * Minimum embedment of 10'-0" into intact rock. Piles shall be ordered minimum 5' long to accommodate unknown rock depths.
- ** Top of intact rock may vary. Elevation estimated based on geotechnical recommendations. See construction sequence below.

SOLDIER PILE CONSTRUCTION SEQUENCE:

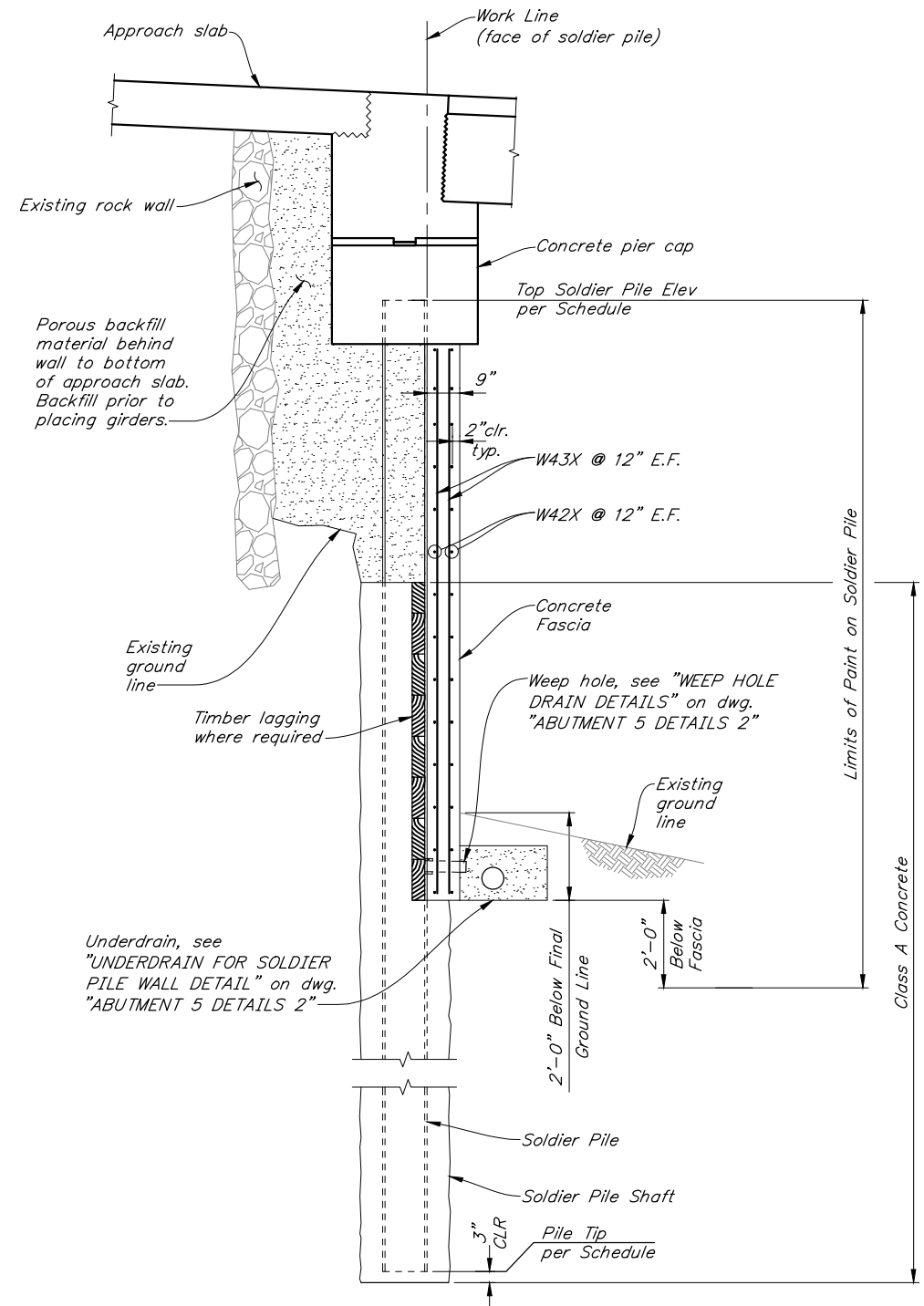
1. Drill to intact rock.
2. If intact rock elevation differs from table value by more than 2 feet, contact Engineer.
3. Drill additional 10'.
4. Cut bottom of pile to achieve top elevation per table.
5. Place pile.
6. Place shaft concrete.
7. Install lagging fascia.



TYPICAL SOLDIER PILE WALL PLAN



SOLDIER PILE LIFTING HOLE



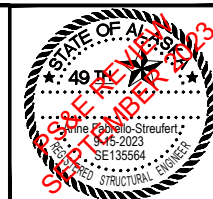
TYPICAL SOLDIER PILE WALL SECTION

09/15/23 | 5:35 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N26 Abutment 5 Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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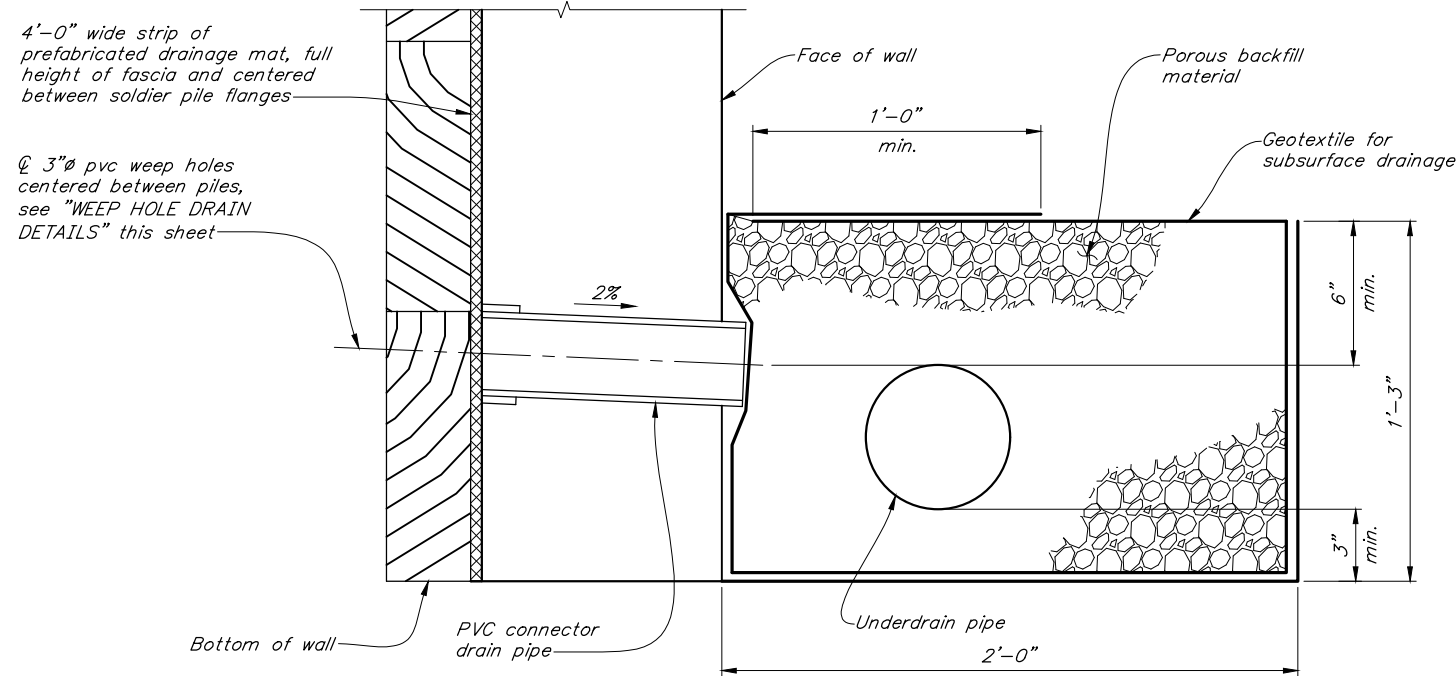


SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 5 DETAILS 1

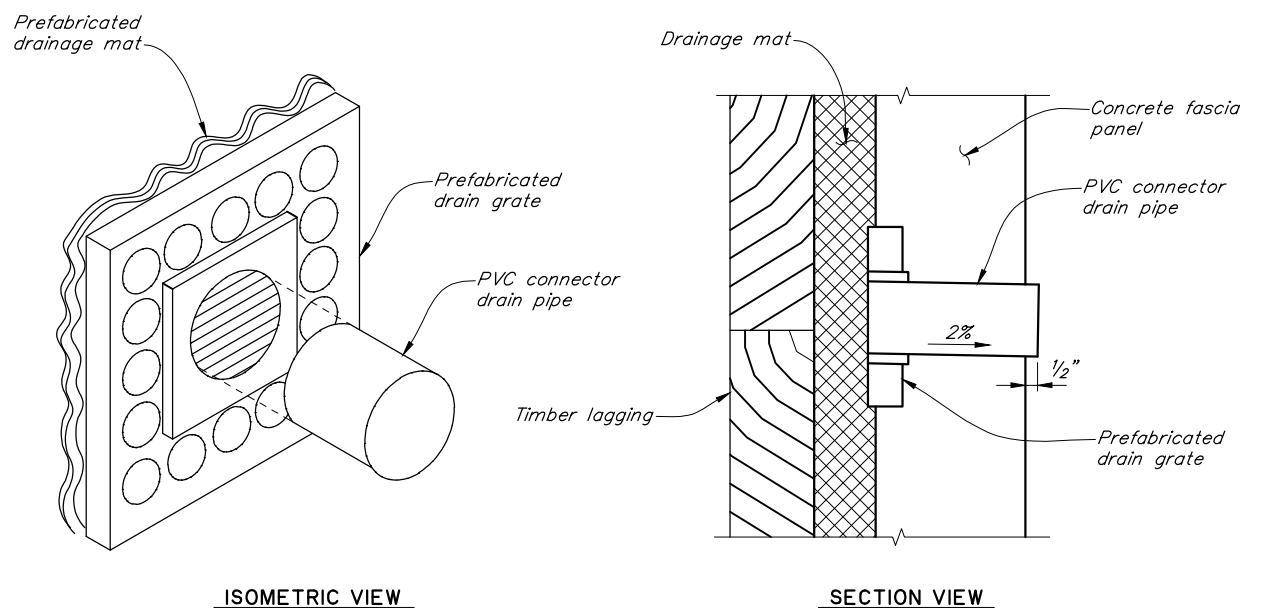
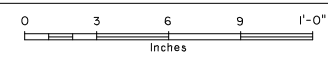


BRIDGE NO. 1841
DWG. NO. 26

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N27	N46



UNDERDRAIN AT SOLDIER PILE WALL

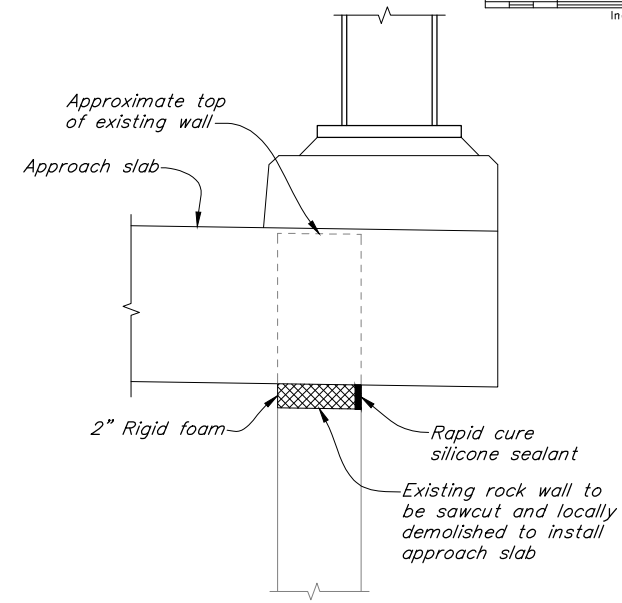
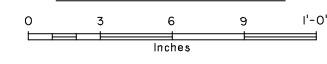


ISOMETRIC VIEW

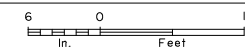
SECTION VIEW

NOTES:
1. Drain grate installation shall not disrupt prefabricated drainage mat.

WEEP HOLE DETAILS



SOUTH WALL SECTION A-A




09/13/23 | 8:48 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N27 Abutment 5 Details 2.dwg

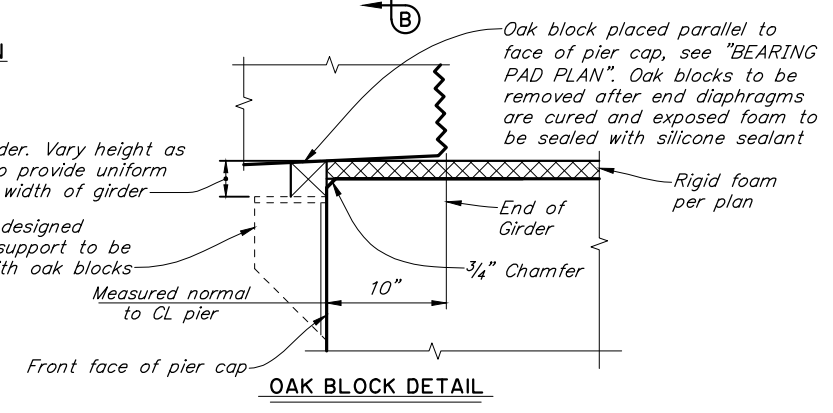
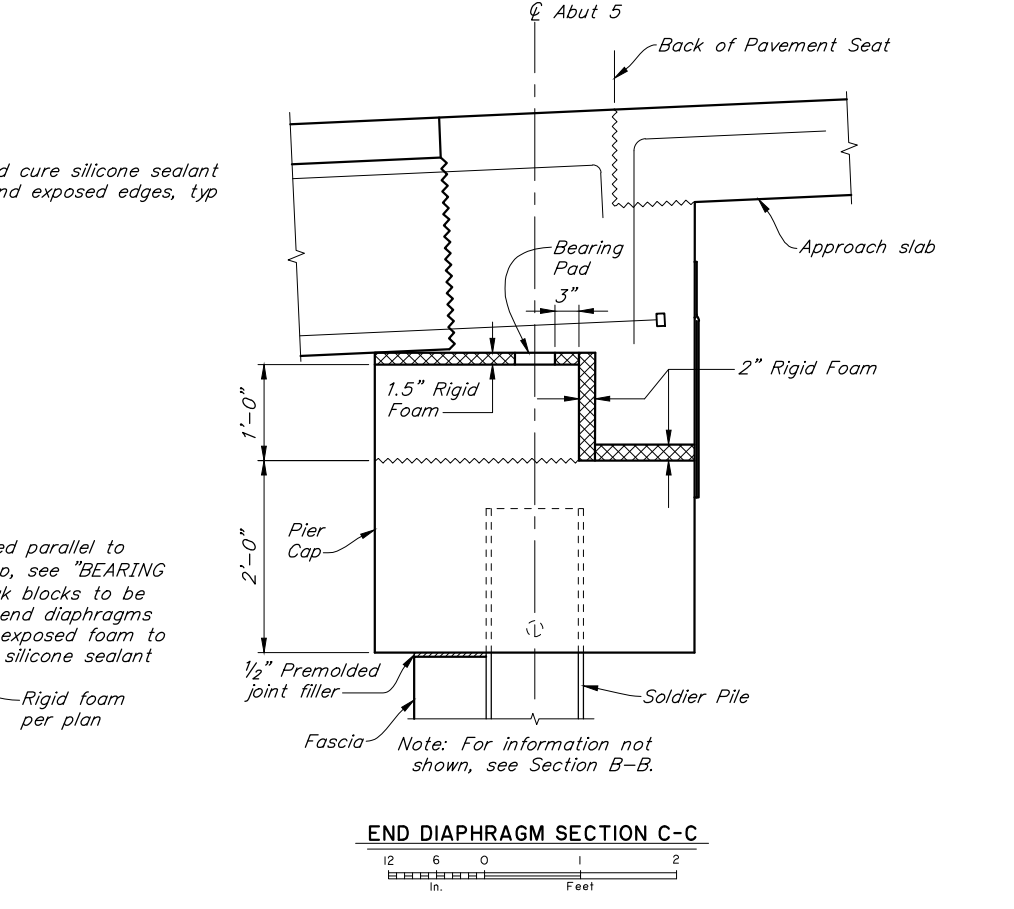
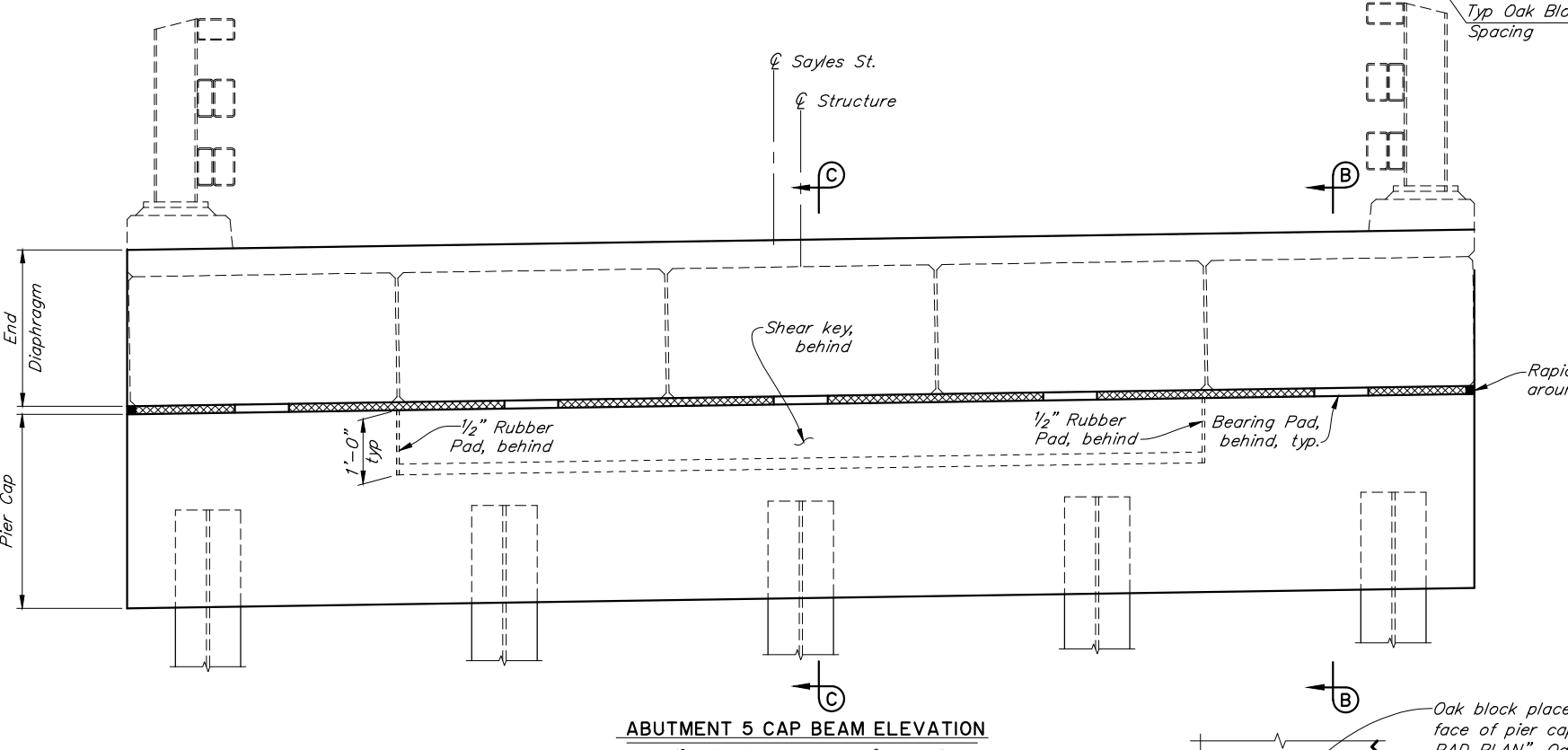
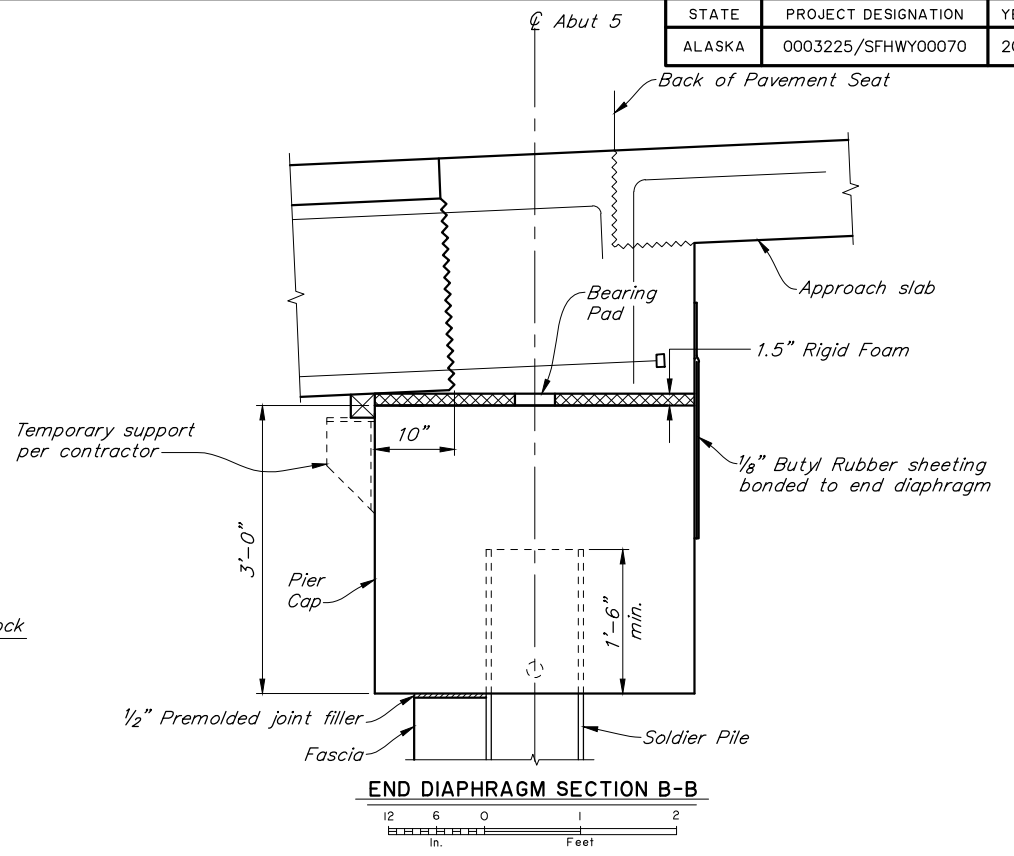
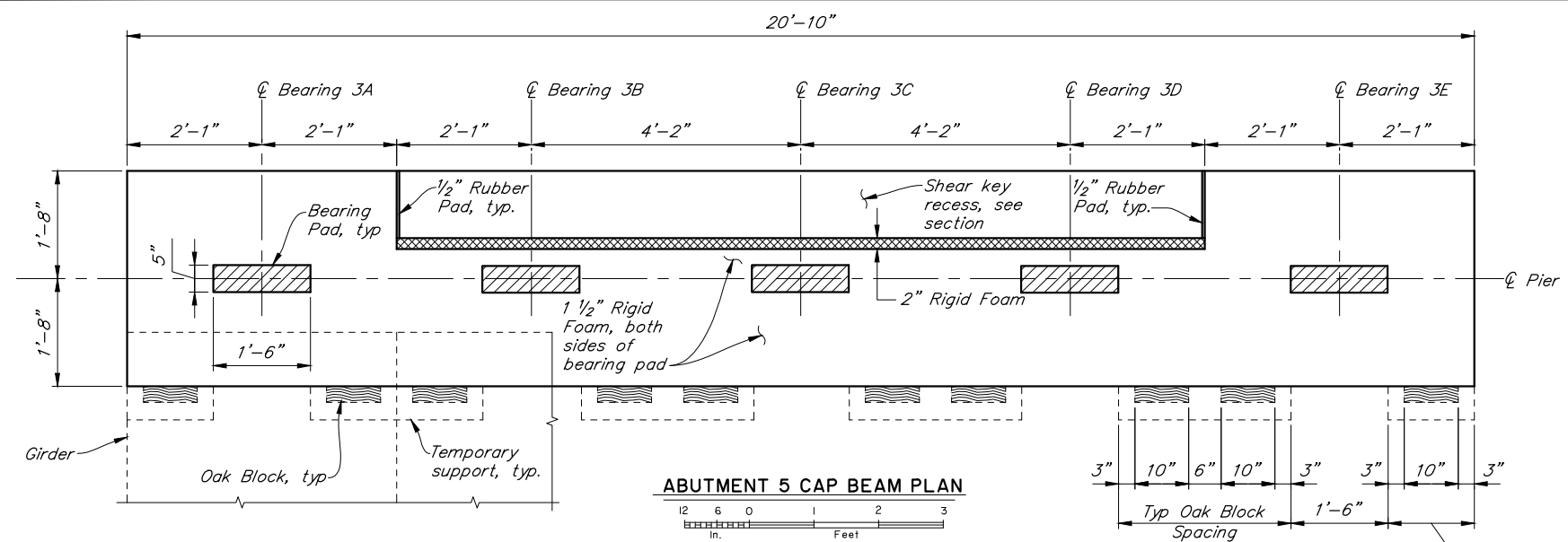
DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 5 DETAILS 2


BRIDGE NO. 1841
DWG. NO. 27



Girder 3A		Girder 3B		Girder 3C		Girder 3D		Girder 3E	
L	R	L	R	L	R	L	R	L	R
107.79	107.82	107.85	107.88	107.91	107.95	107.97	108.01	108.04	108.07

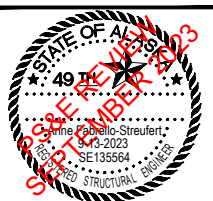
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DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES - GORGE STREET VIADUCT

SAYLES ST & GORGE ST

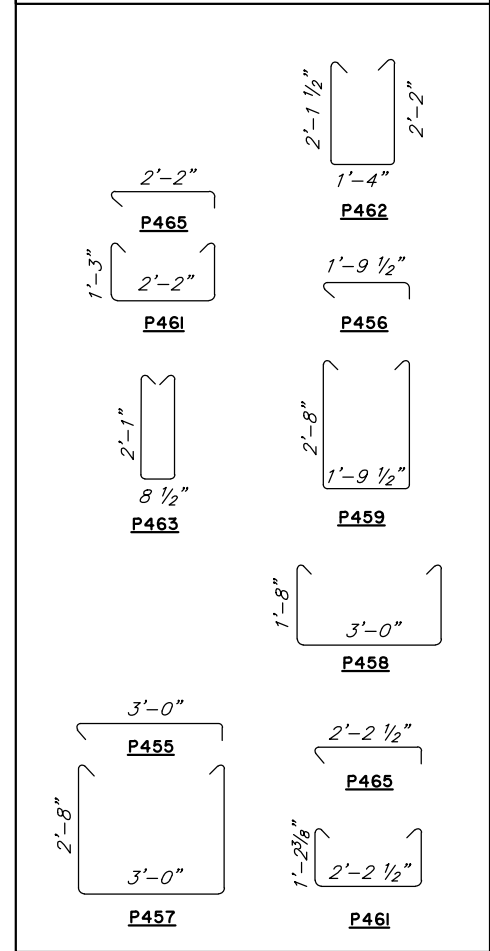
ABUTMENT 5 CAP DETAILS 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N29	N46

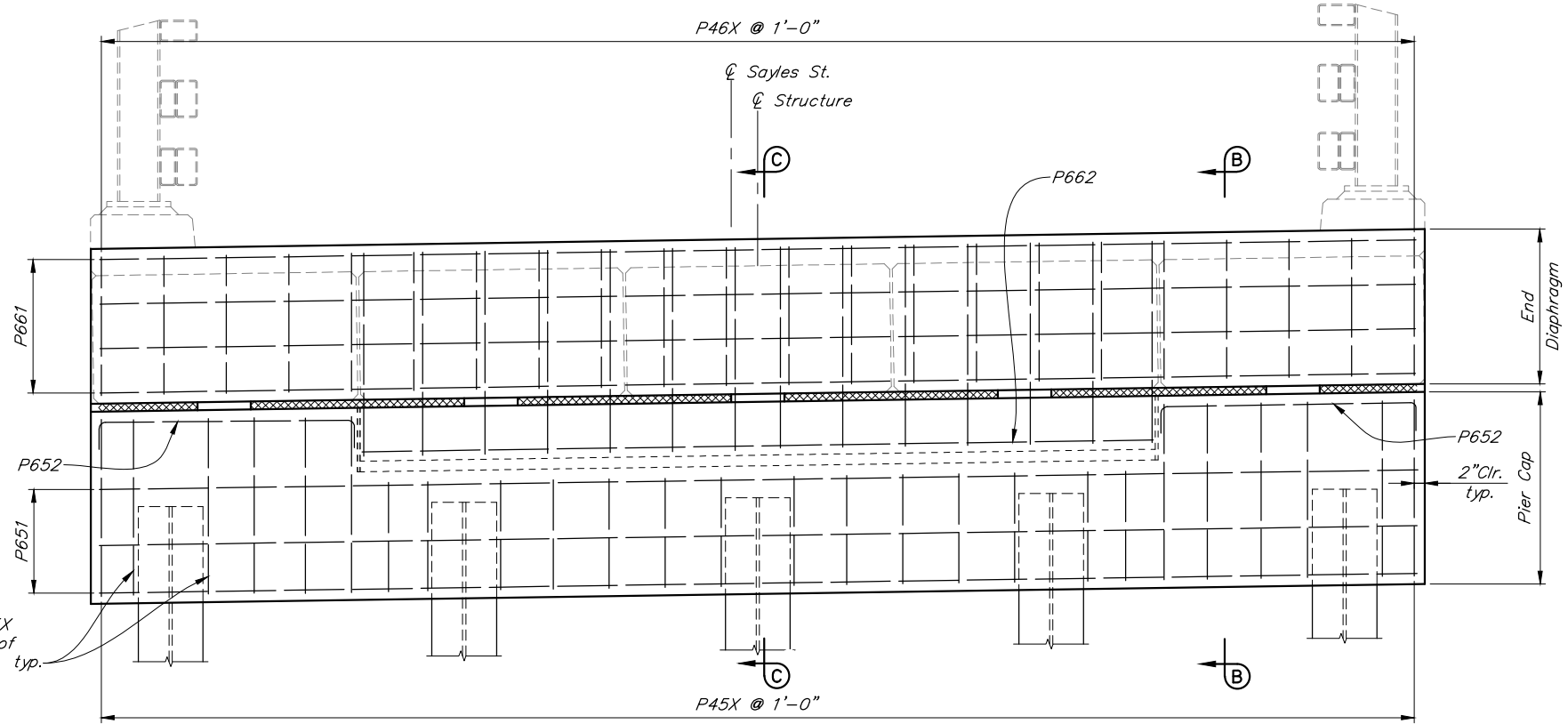
REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P455		4	28	3' - 8"	BENT
P456		4	16	2' - 5"	BENT
P457		4	12	8' - 11"	BENT
P458		4	16	6' - 11"	BENT
P459		4	16	7' - 8"	BENT
P461	E	4	22	5' - 3"	BENT
P462	E	4	22	6' - 2"	BENT
P463	E	4	14	5' - 5"	BENT
P465	E	4	22	2' - 10"	BENT
P651		6	13	20' - 6"	
P652		6	2	3' - 10"	
P661		6	11	20' - 6"	
P662		6	2	12' - 1"	

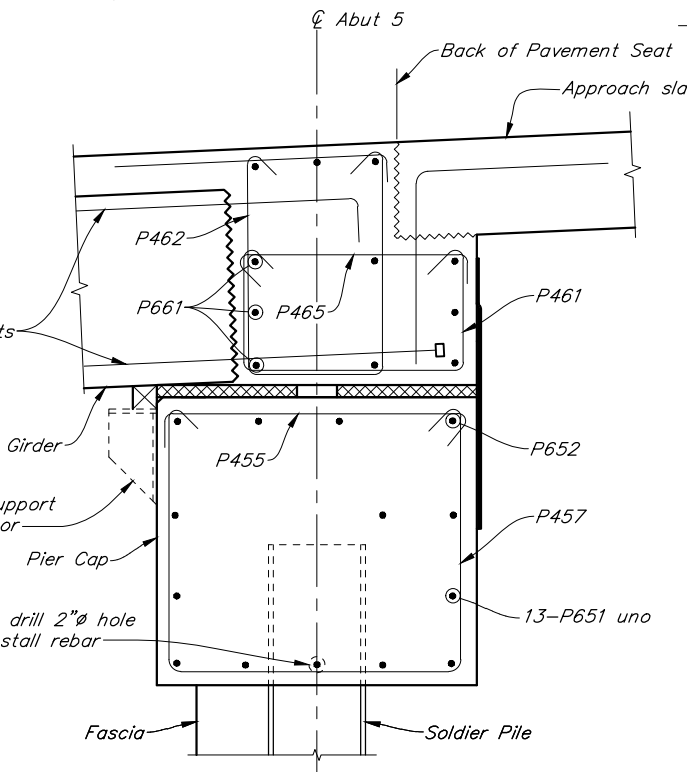
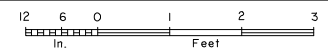
BENDING DIAGRAM



E = Epoxy coated reinforcing steel
S = Spliced permitted. Length does not include splices.

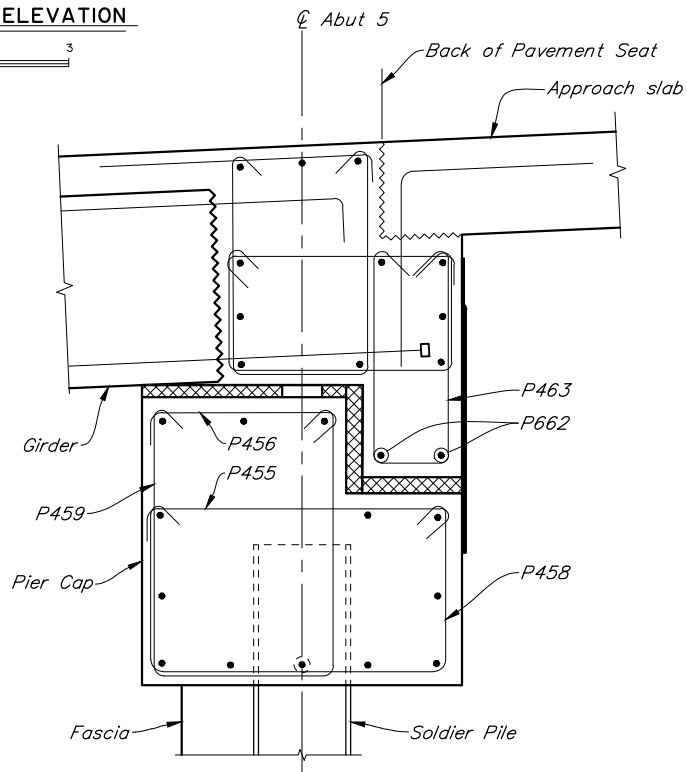
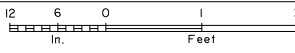


ABUTMENT 5 CAP BEAM ELEVATION



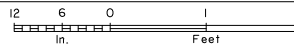
Note: For information not shown, see sheet "ABUTMENT 1 CAP DETAILS 1"

END DIAPHRAGM SECTION B-B



Note: For information not shown, see Section B-B

END DIAPHRAGM SECTION C-C




09/15/23 | 7:32 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N29 Abutment 5 Cap Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

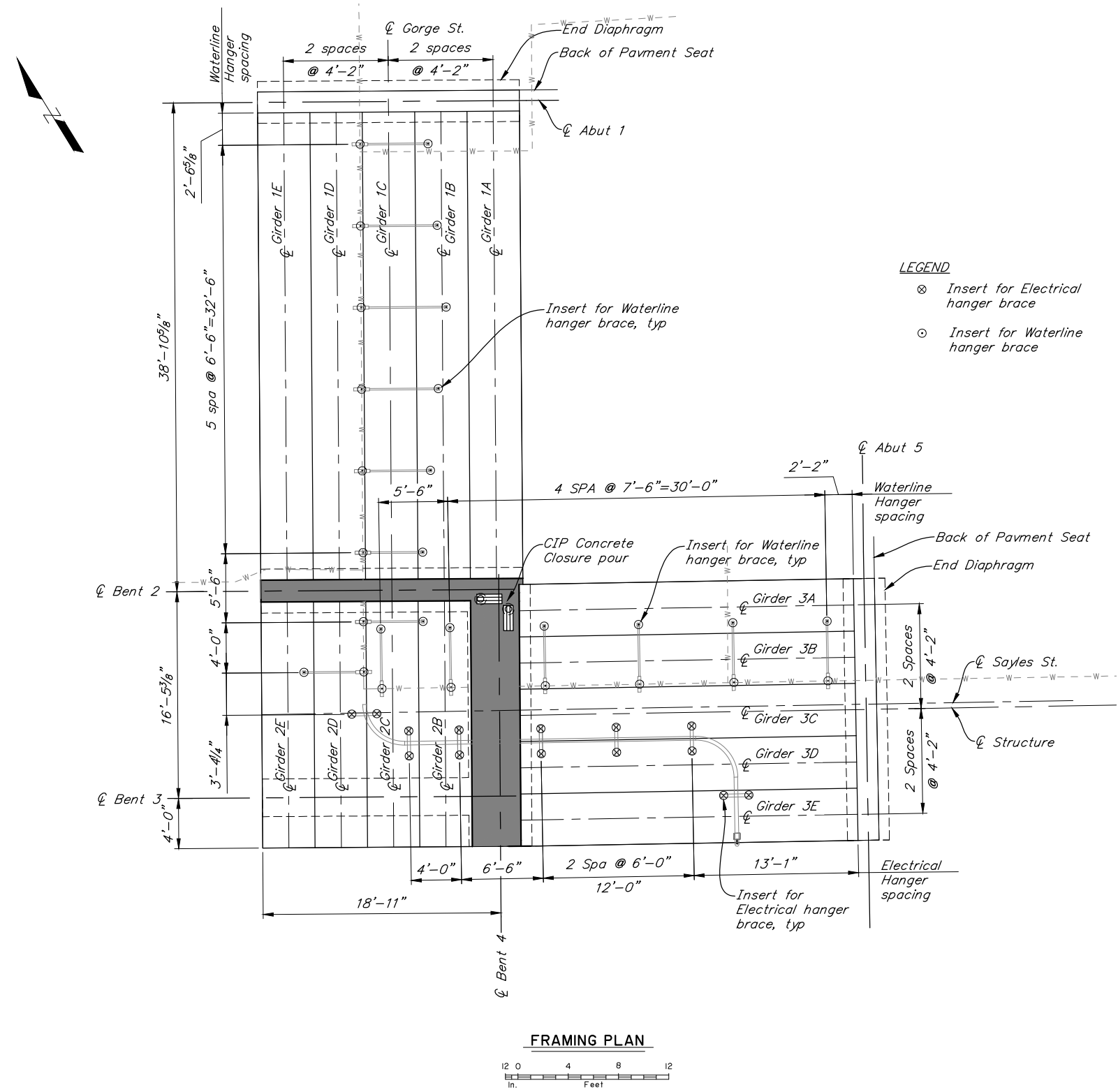
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SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
ABUTMENT 5 CAP DETAILS 2


BRIDGE NO. 1841
DWG. NO. 29

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N30	N46



FRAMING PLAN

12 0 4 8 12
in. Feet

09/13/23 | 3:17 PM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N30 Framing Plan.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES - GORGE STREET VIADUCT

SAYLES ST & GORGE ST

FRAMING PLAN



BRIDGE NO. 1841

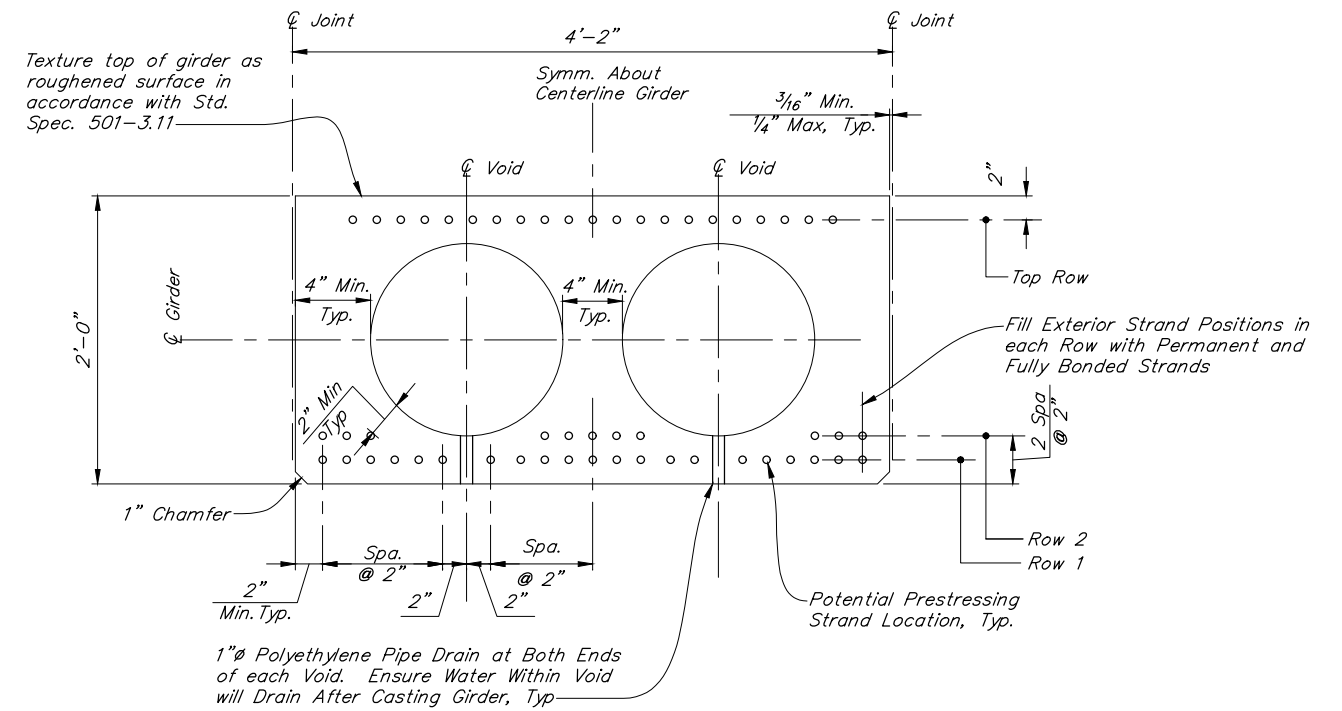
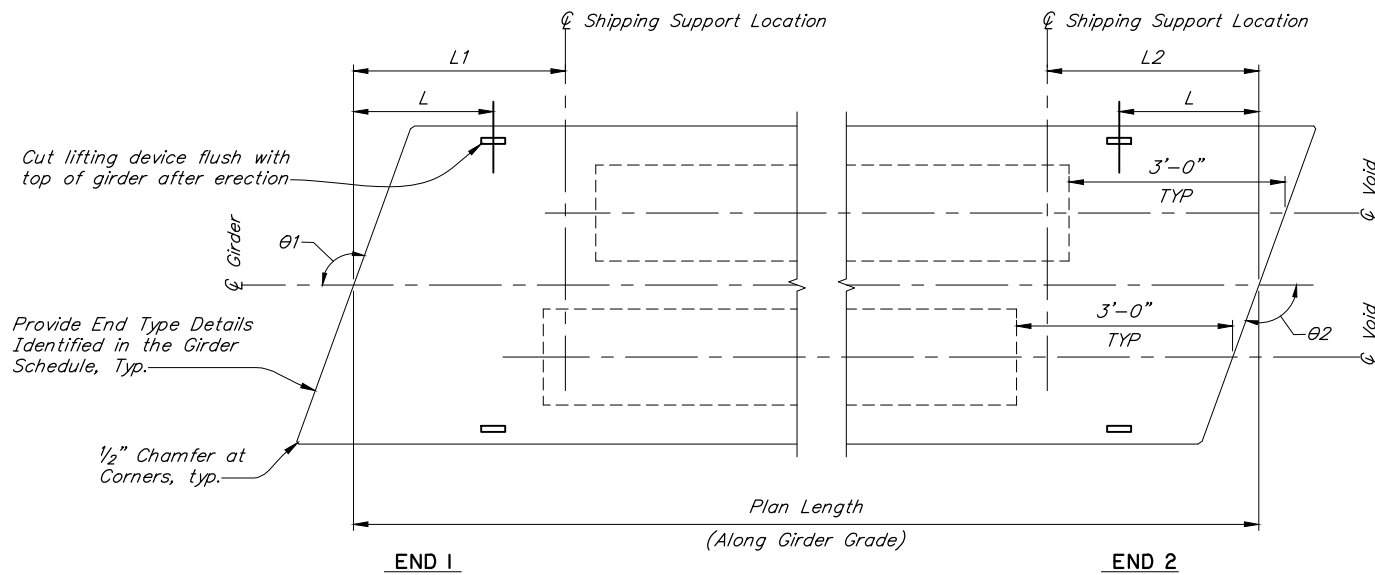
DWG. NO. 30

GIRDER SCHEDULE

Span	Girder	Girder Height H	Girder Width W	Plan length (along girder grade) (see Girder Note 1)	Voids		Girder End Details		Min Concrete Comp Strength		Prestressing Strands (See Girder Notes 2 - 4)								"A" Dimension at ϕ Bearings	Deck Scribed Camber C	Midspan Vertical Deflection D		Shipping and Handling Details					
					Number	Diameter	End 1 Type	End 2 Type	θ_1	θ_2	@ 28-Days F'C (KSI)	@ Release F'C (KSI)	Row 1			Row 2					Row 3		Top Row	Lower Bound @ 40 Days	Upper Bound @ 120 Days	L	L ₁	L ₂
													Permanent Strands	Extended Number	Debonded Number and Length	Permanent Strands	Extended Number	Debonded Number and Length			Permanent Strands	Extended Number						
1	A-E	2'-0"	4'-2"	37'-8 5/8"	2	15.7	A	B	90	90	7.0	5.0	13	4	-	-	-	-	-	4	-	5.5	0	1/8"	3/8"	3'-0"	2'-0"	2'-0"
2	B-E	2'-0"	4'-2"	19'-6 7/8"	0	-	A	C	90	90	7.0	5.0	11	4	-	-	-	-	-	2	-	5.5	0	0	1/8"	3'-0"	2'-0"	2'-0"
3	A-E	2'-0"	4'-2"	26'-0 7/8"	2	15.7	B	A	90	90	7.0	5.0	11	4	-	-	-	-	-	4	-	5.5	0	1/8"	1/4"	3'-0"	2'-0"	2'-0"

GIRDER NOTES:

- Plan length shall be increased as necessary to compensate for shortening due to prestress and shrinkage.
- all strands shall be 0.6" ϕ aashto m203 grade 270 low relaxation strands, strands shall be symmetrical about the girder centerline. Exterior strands in each row shall be fully bonded. Design is based on the following steel stresses:
Pretensioning - Jacking Stresses 189 ksi
after initial losses 178 ksi
after all losses 156 ksi
- Space extended strands symmetrically and evenly across girder width. stagger extended strand locations with respect to girders in adjacent spans.
- Debonded strands shall be debonded at each girder end for the indicated length parallel to the girder centerline. Debonded strands shall not be extended past girder ends. Debonded strands shall be symmetrically placed about the girder centerline. Debonded lengths of pairs of strands that are symmetrically positioned about the girder centerline shall be equal.
- Concrete shall be class P concrete with the strengths noted in the Girder Schedule.

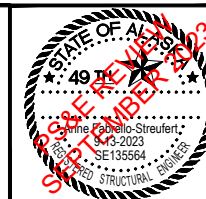


09/13/23 | 8:53 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N31 Girder Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

PLANS DEVELOPED BY:
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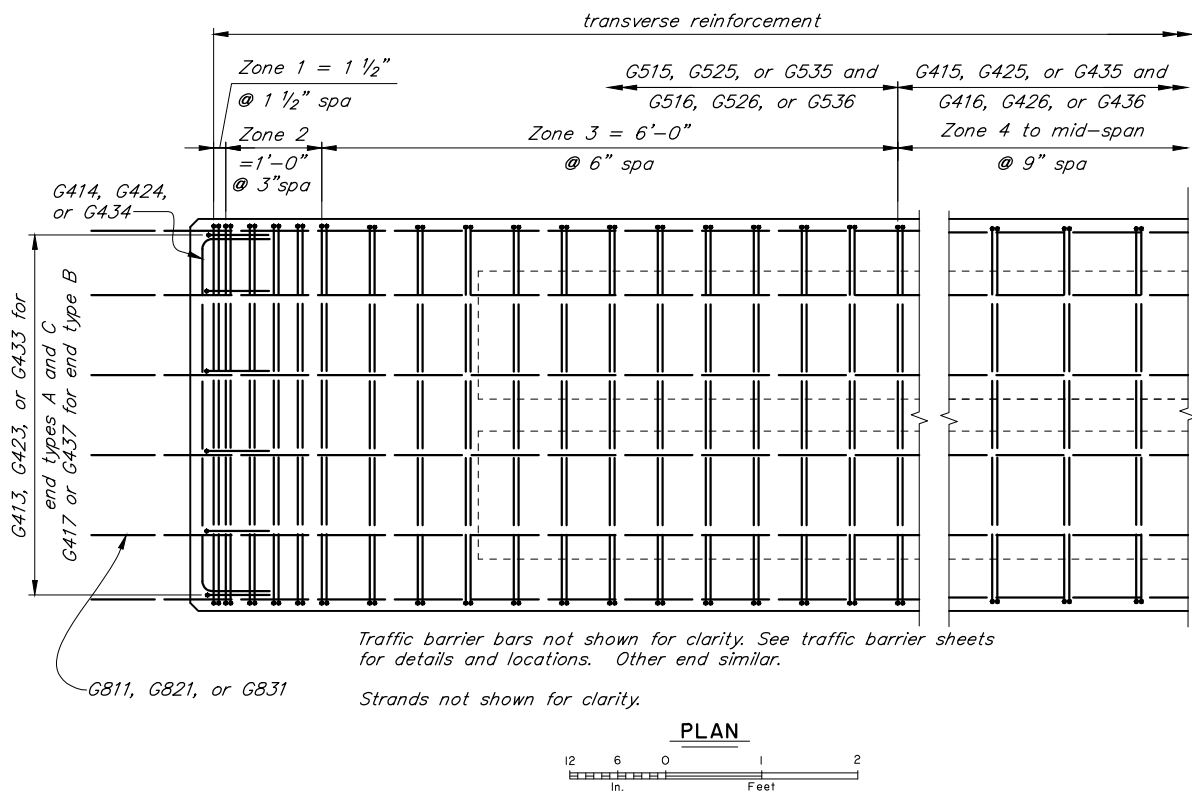


SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
GIRDER DETAILS 1



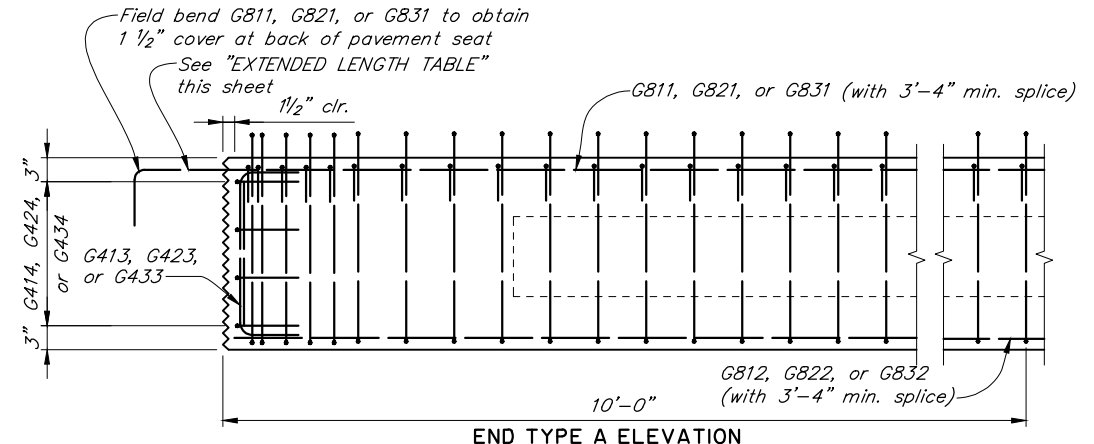
BRIDGE NO. 1841
DWG. NO. 31

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N32	N46

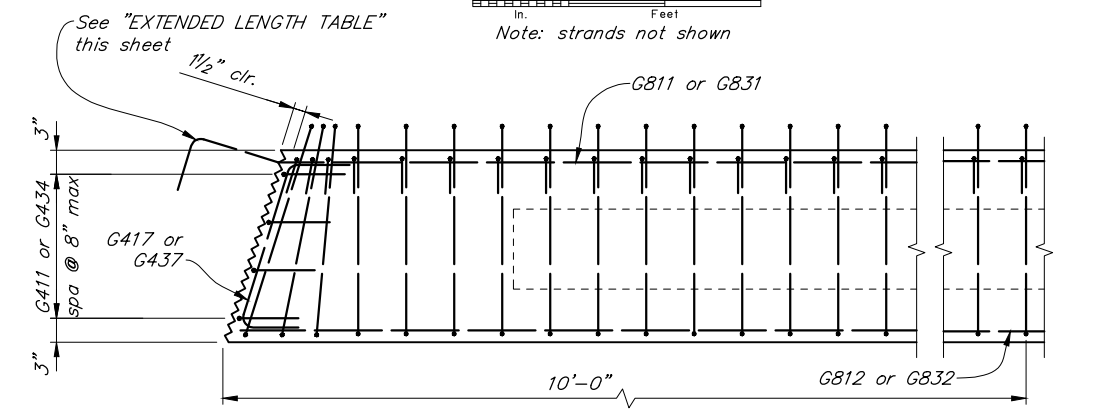
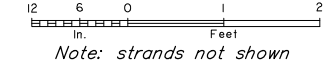


Traffic barrier bars not shown for clarity. See traffic barrier sheets for details and locations. Other end similar.

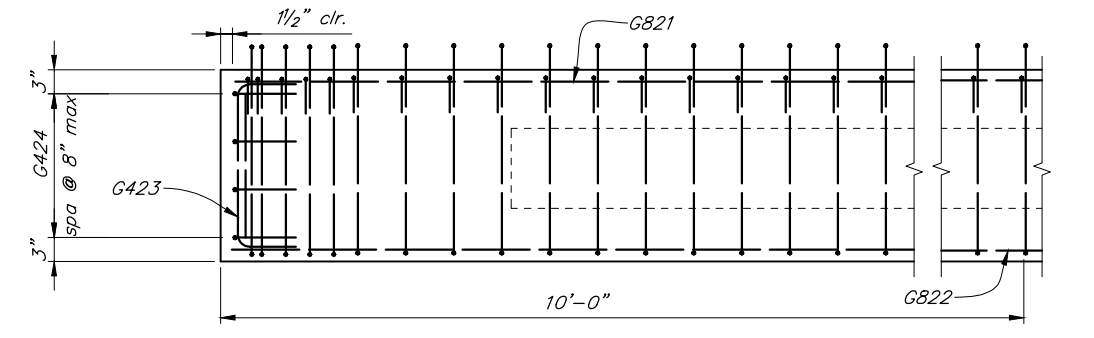
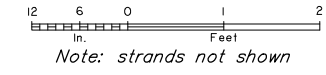
Strands not shown for clarity.



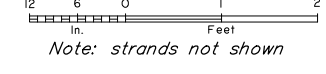
END TYPE A ELEVATION



END TYPE B ELEVATION



END TYPE C ELEVATION



GIRDER SPAN 1 REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
G413		4	30	2' - 3"	BENT
G414		4	40	4' - 3"	BENT
G415		4	165	8' - 6"	BENT
G416		4	165	4' - 5"	BENT
G515		5	170	8' - 7"	BENT
G516		5	170	4' - 7"	BENT
G811		8	30	43' - 4"	BENT
G812		8	30	38' - 11"	BENT
G417		4	30	3' - 2"	BENT

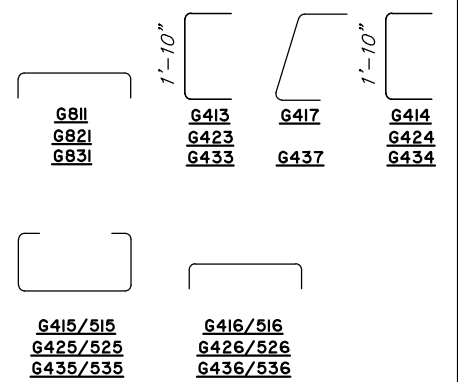
GIRDER SPAN 2 REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
G423		4	48	2' - 3"	BENT
G424		4	32	4' - 3"	BENT
G425		4	40	8' - 6"	BENT
G426		4	40	4' - 5"	BENT
G525		5	136	8' - 7"	BENT
G526		5	136	4' - 7"	BENT
G821		8	24	22' - 0"	BENT
G822		8	24	19' - 3"	BENT
G427		4	10	4' - 5"	BENT
G527		5	34	4' - 2"	BENT

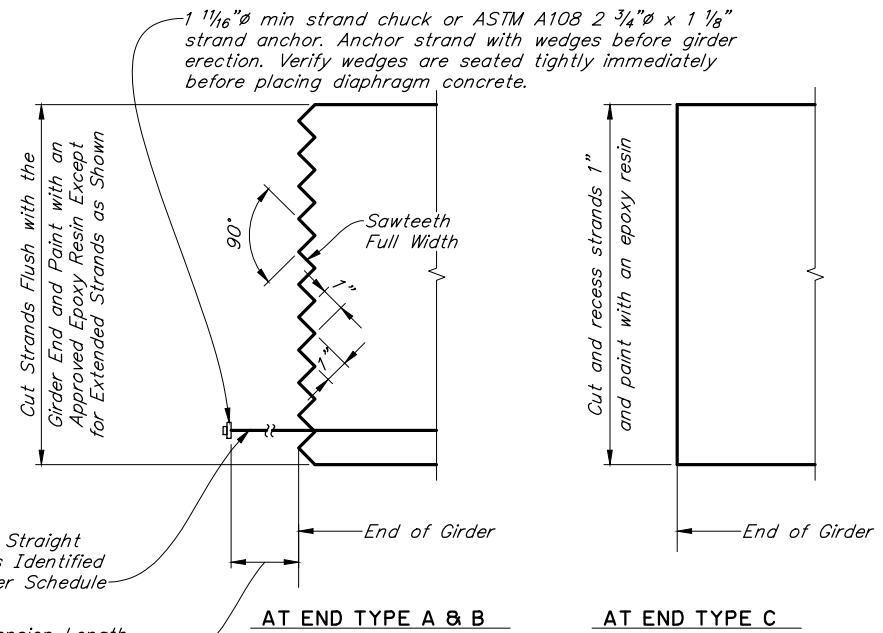
GIRDER SPAN 3 REINFORCING STEEL

MARK	NOTE	SIZE	NO.	LENGTH	TYPE
G433		4	30	2' - 3"	BENT
G434		4	40	4' - 3"	BENT
G435		4	105	8' - 6"	BENT
G436		4	105	4' - 5"	BENT
G535		5	170	8' - 7"	BENT
G536		5	170	4' - 7"	BENT
G831		8	6	32' - 5"	BENT
G832		8	6	25' - 9"	BENT
G437		4	30	2' - 10"	BENT

BENDING DIAGRAM



Note: All dimensions are out to out.



GIRDER END DETAIL

EXTENDED LENGTH TABLE

SPAN	LOCATION	TOP REINFORCING STEEL	PRESTRESSING STRAND
1	Abutment 1	1'-7"	2'-0"
1	Bent 2	1'-4"	1'-4"
2	Bent 2	1'-4"	1'-4"
2	Bent 3	-	-
3	Bent 4	2'-6"	2'-6"
3	Abutment 5	1'-7"	2'-0"

09/15/23 | 3:59 PM | Josh V:\1800239\Sayles-Gorge Viaduct\02_Design\2019\1841-N32 Girder Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

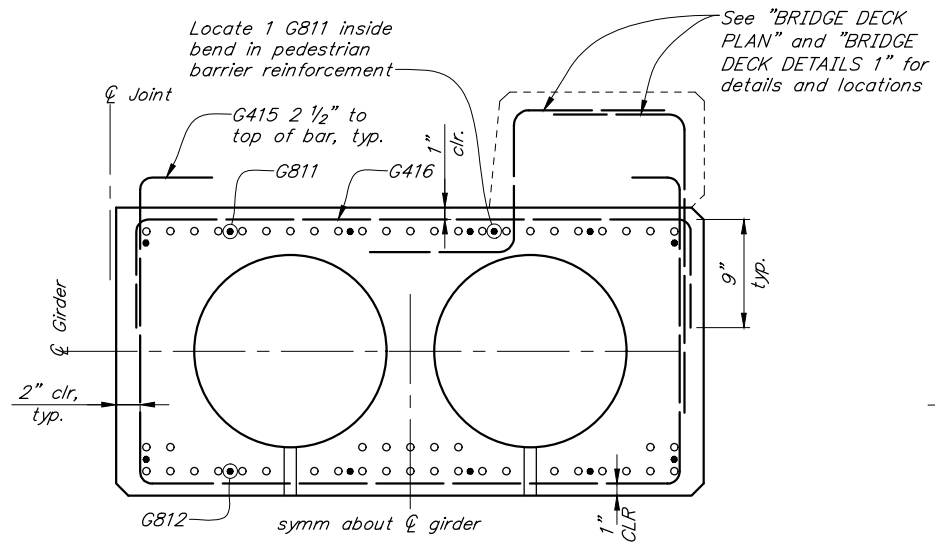
PRE-PSE SUBMITTAL
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 PLANS DEVELOPED BY:
 KPFF ENGINEERING CONSULTING
 1601 5th Ave., Suite 1600, Seattle, WA 98101
 (206) 622-5822



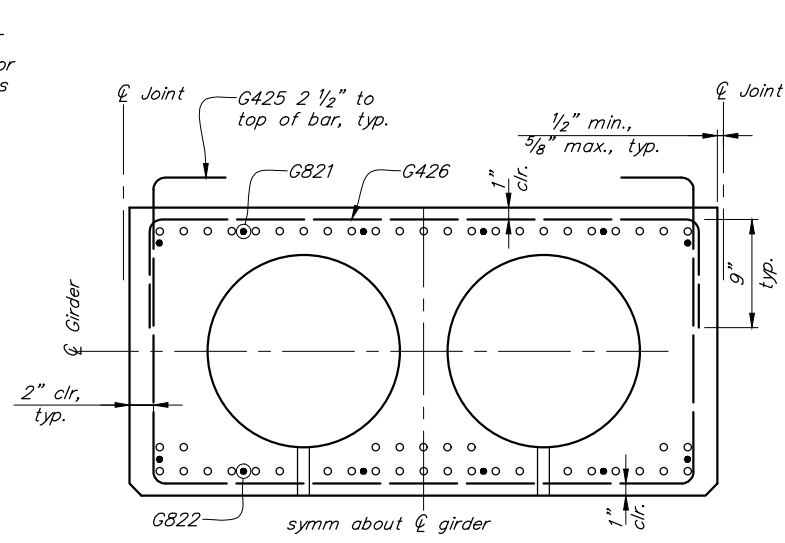
SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
GIRDER DETAILS 2


 BRIDGE NO. 1841
 DWG. NO. 32

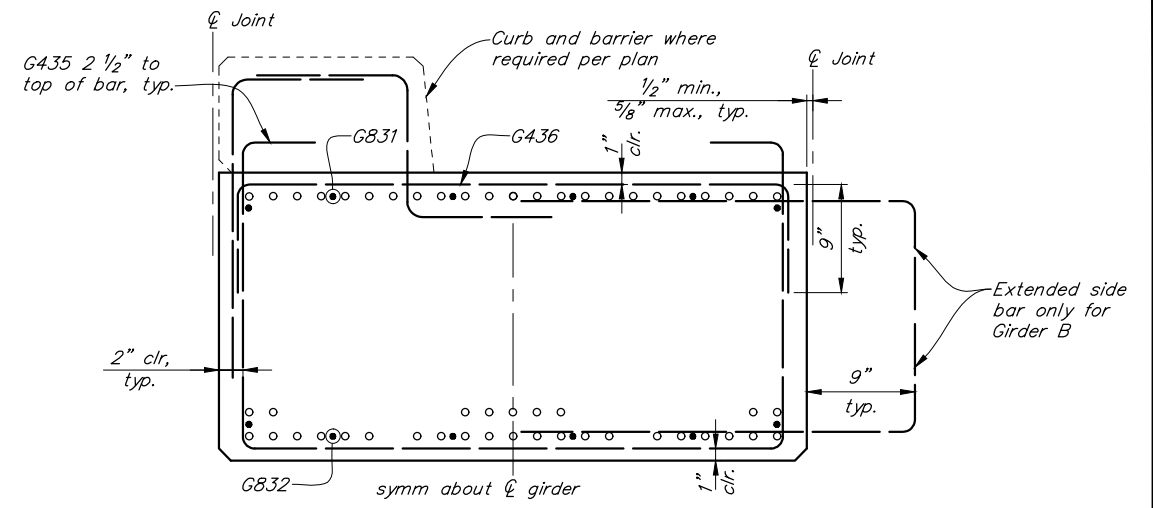
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N33	N46



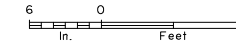
TYPICAL SPAN 1 AND 3 EXTERIOR GIRDER SECTION



TYPICAL SPAN 1 AND 3 INTERIOR GIRDER SECTION



TYPICAL SPAN 2 GIRDER SECTION

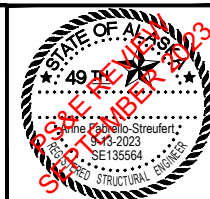


09/13/23 | 8:55 AM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N33 Girder Details 3.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
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PLANS DEVELOPED BY:
KPF ENGINEERING CONSULTING
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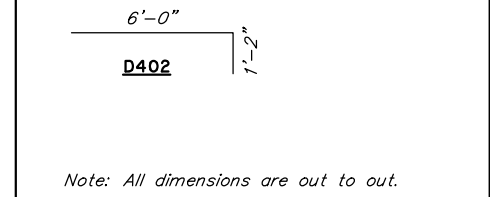
SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
GIRDER DETAILS 3



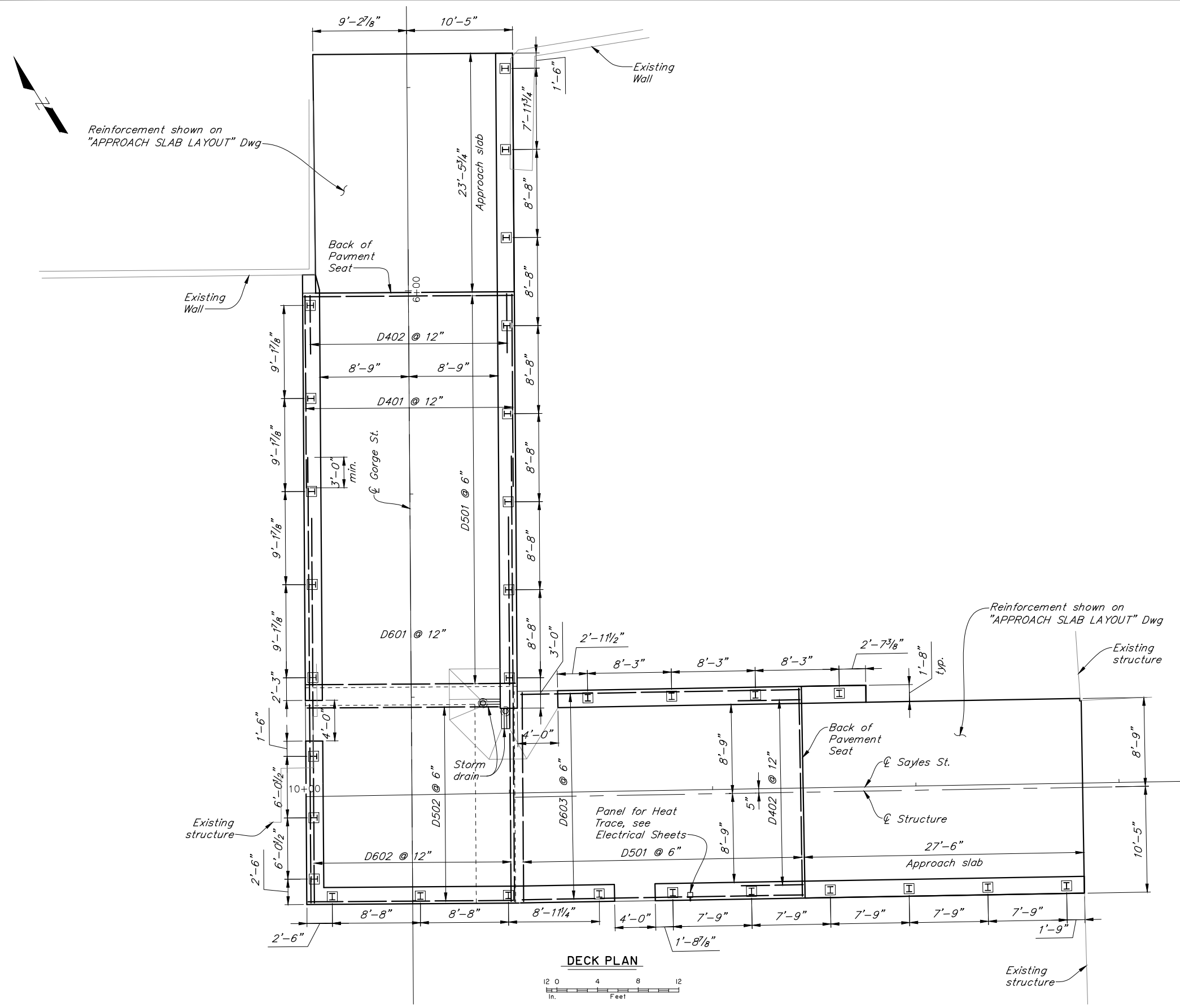
BRIDGE NO. 1841
DWG. NO. 33

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N34	N46

REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
D401	E	4	22	26' - 0"	
D402	E	4	22	7' - 1"	BENT
D501	E	5	133	20' - 6"	
D502	E	5	39	23' - 1"	
D601	E	5	21	44' - 0"	
D602	E	6	20	38' - 0"	
D603	E	6	41	48' - 7"	



S = Spliced permitted. Length does not include splices.
E = Epoxy coated reinforcing steel




09/15/23 | 7:34 PM | Joshp V:\1800239\Sayles-Gorge Viaduct\02_Design (v2019)\1841-N34 Deck Plan.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

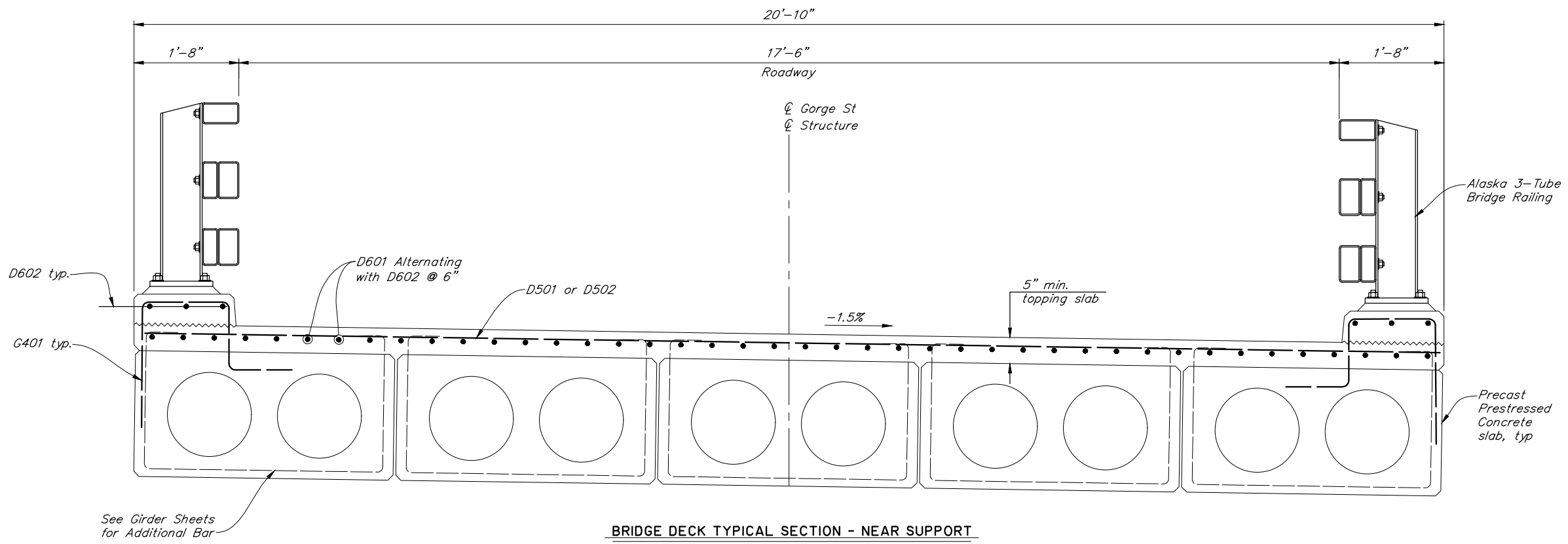
PRE-PSE SUBMITTAL
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PLANS DEVELOPED BY:
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(206) 622-5822



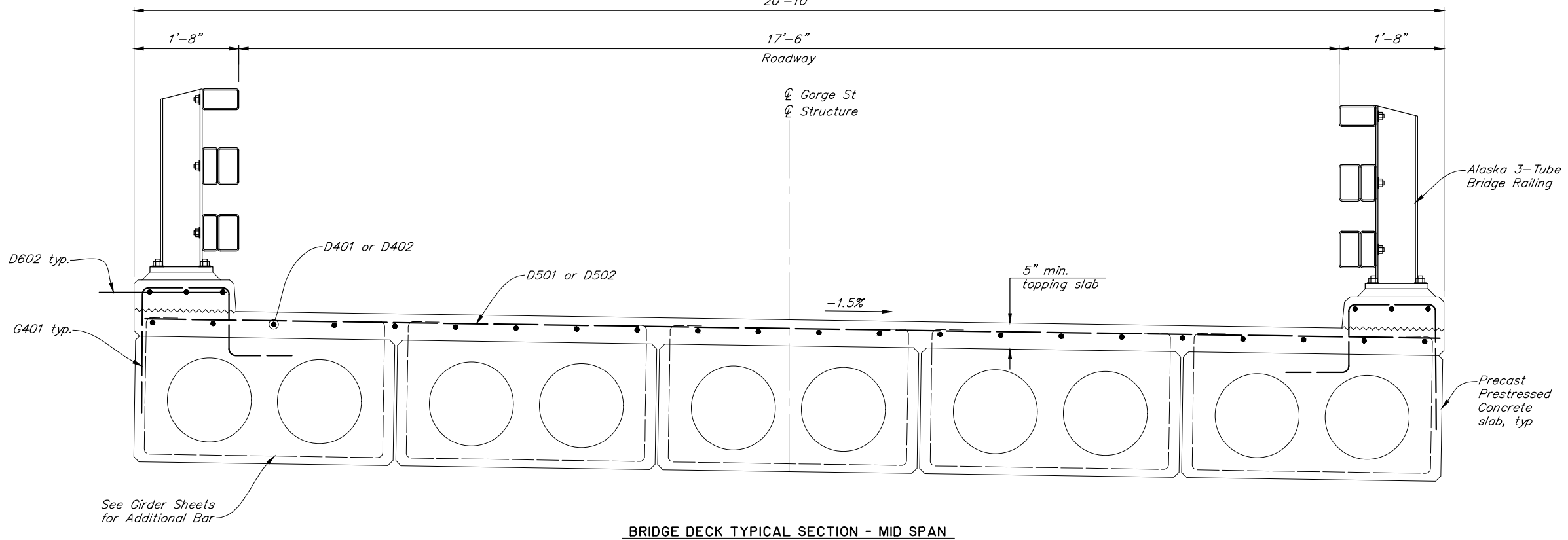
SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
DECK PLAN


BRIDGE NO. 1841
DWG. NO. 34

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWHY00070	2023	N35	N46



BRIDGE DECK TYPICAL SECTION - NEAR SUPPORT



BRIDGE DECK TYPICAL SECTION - MID SPAN



09/14/23 | 1:43 PM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N35 Bridge Deck Details 1.dwg

DESIGNED BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>
DRAWN BY: <i>Rick Torgeson</i>	CHECKED: <i>Joshua Pruitt</i>
QUANTITIES BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>

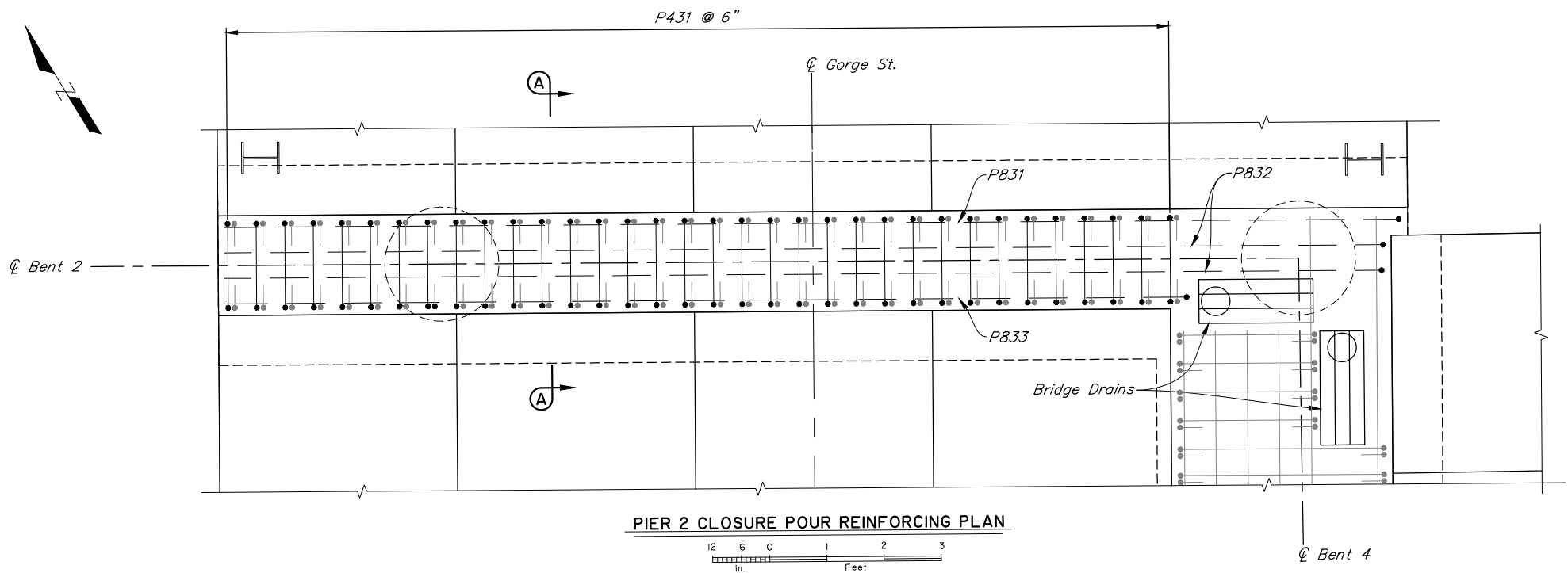
PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION
 PLANS DEVELOPED BY:
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 1601 5th Ave, Suite 1600, Seattle, WA 98101
 (206) 622-5822



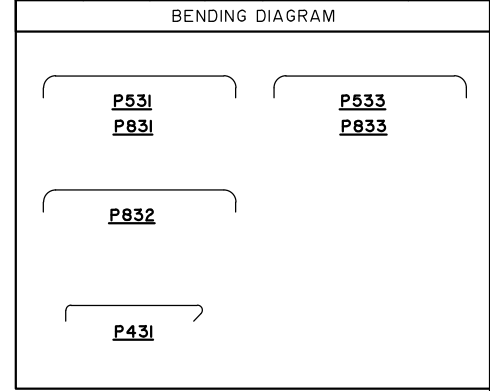
SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
BRIDGE DECK DETAILS 1


 BRIDGE NO. 1841
 DWG. NO. 35

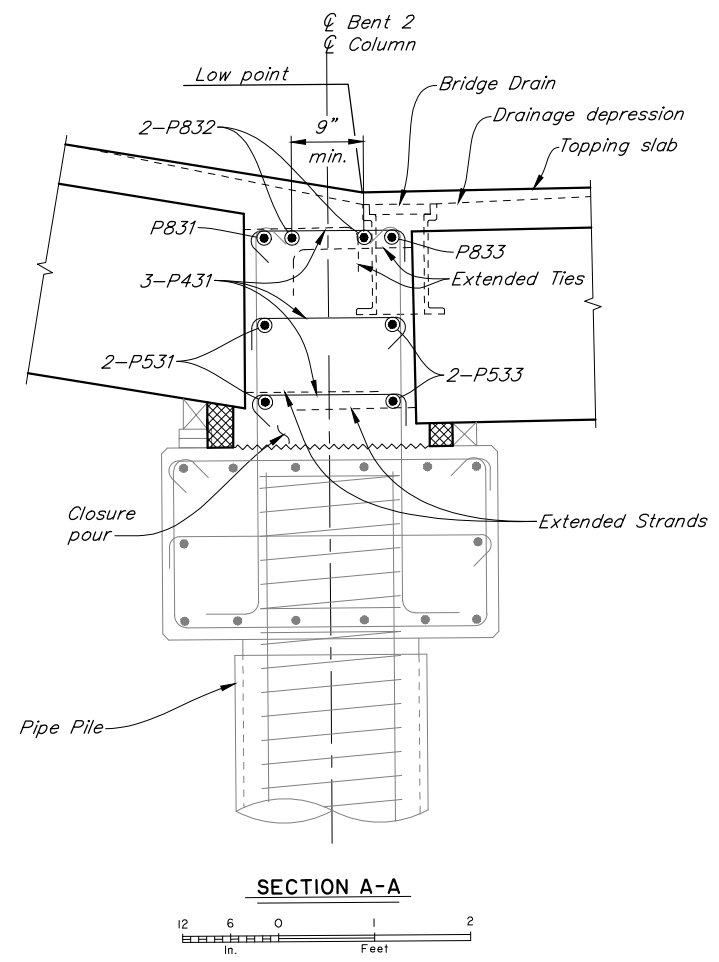
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N36	N46



REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P431		4	102	2' - 2"	BENT
P531		5	2	21' - 11"	BENT
P533		5	2	18' - 3"	BENT
P831		8	1	22' - 9"	BENT
P832		8	2	22' - 6"	BENT
P833		8	1	19' - 1"	BENT



E = Epoxy coated reinforcing steel
 S = Spliced permitted. Length does not include splices.



09/15/23 | 4:04 PM | Joshp V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N36 Deck Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION
 PLANS DEVELOPED BY:
 KPFF ENGINEERING CONSULTING
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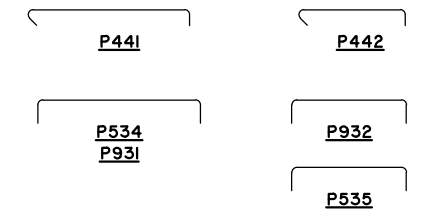
SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
BRIDGE DECK DETAILS 2


 BRIDGE NO. 1841
 DWG. NO. 36

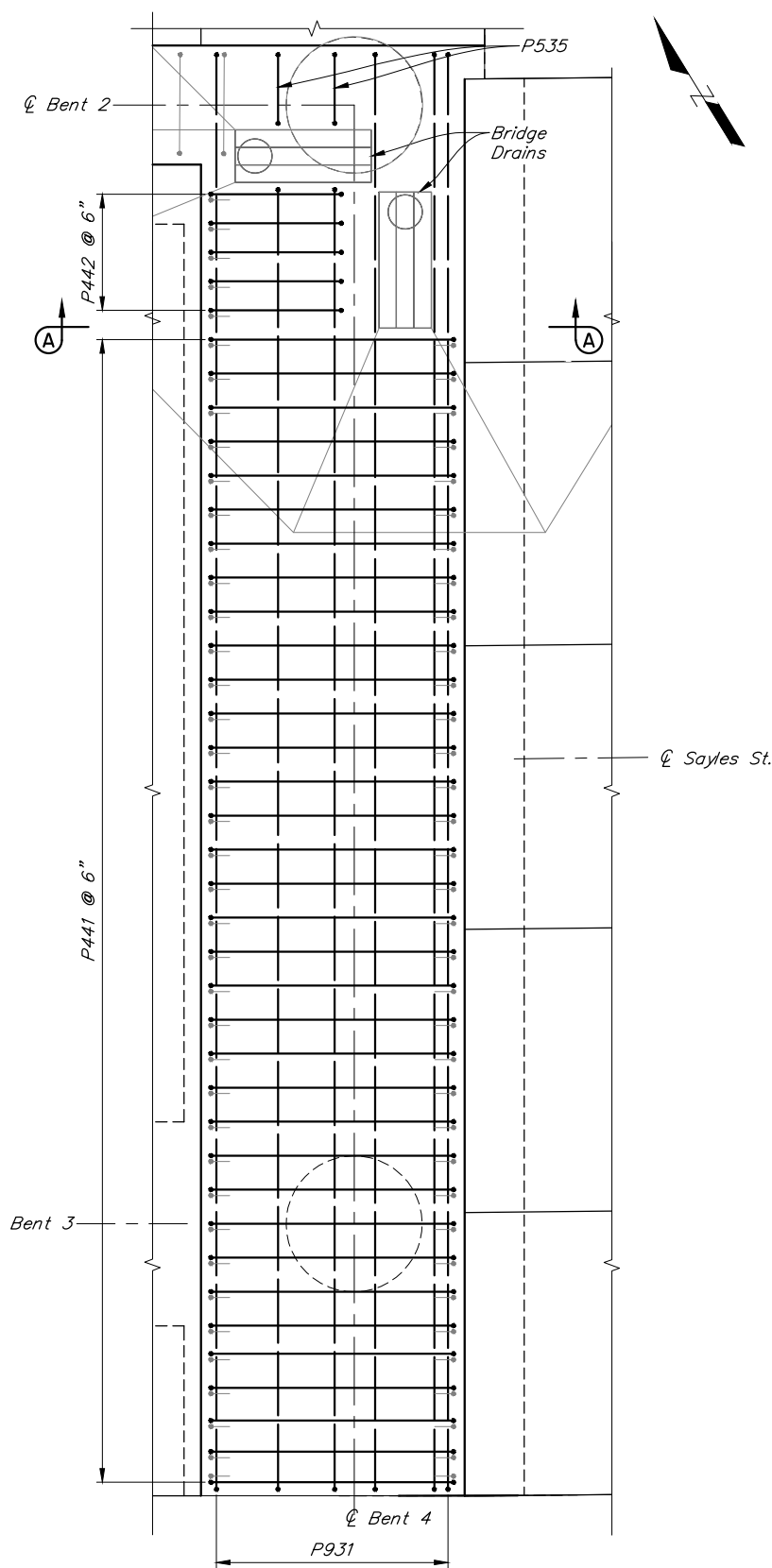
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N37	N46

REINFORCING STEEL					
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
P441		4	105	4' - 2"	BENT
P442		4	15	2' - 6"	BENT
P534		5	4	22' - 6"	BENT
P931		9	4	23' - 9"	BENT
P932		9	2	21' - 9"	BENT
P535		5	2	2' - 5"	BENT

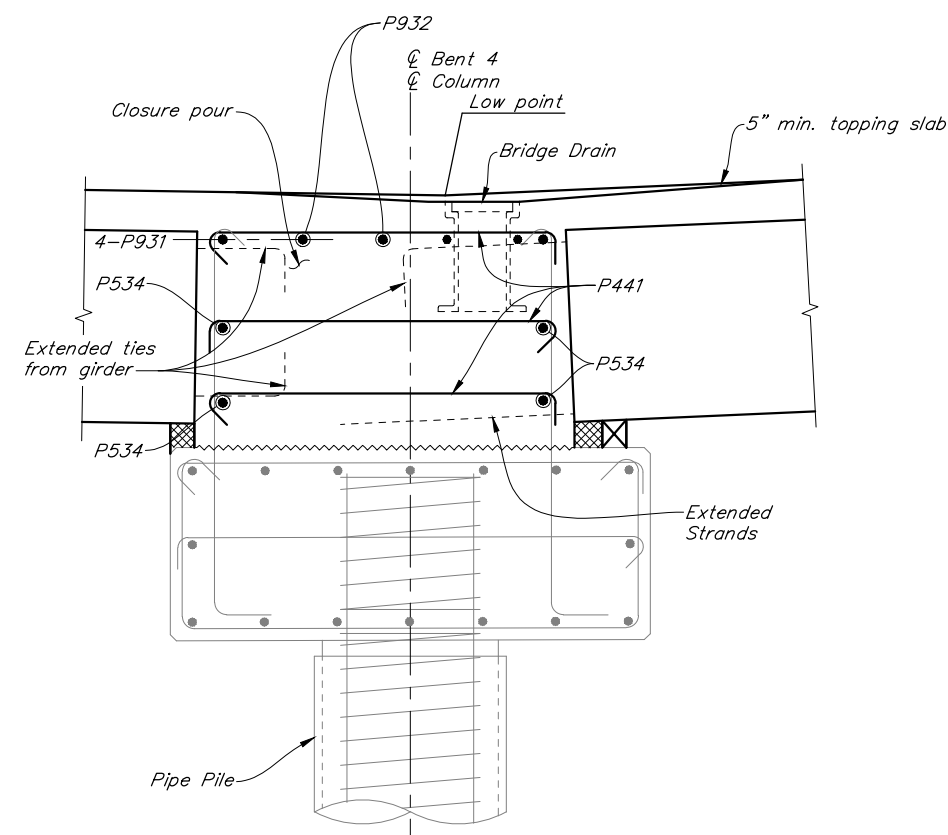
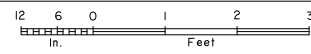
BENDING DIAGRAM



E = Epoxy coated reinforcing steel
 S = Spliced permitted. Length does not include splices.



PIER 4 CLOSURE POUR REINFORCING PLAN



SECTION A-A



09/15/23 | 4:06 PM | Joshp V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N37 Deck Details 3.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
BRIDGE DECK DETAILS 3



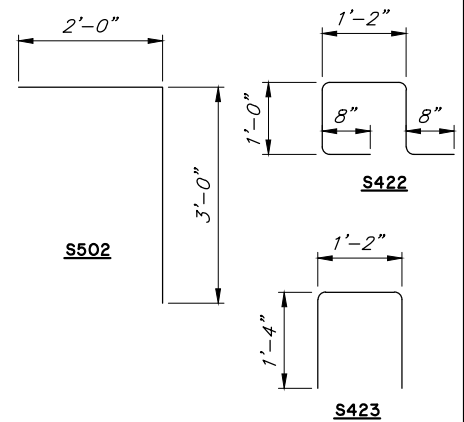
BRIDGE NO. 1841
 DWG. NO. 37

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N38	N46

REINFORCING STEEL

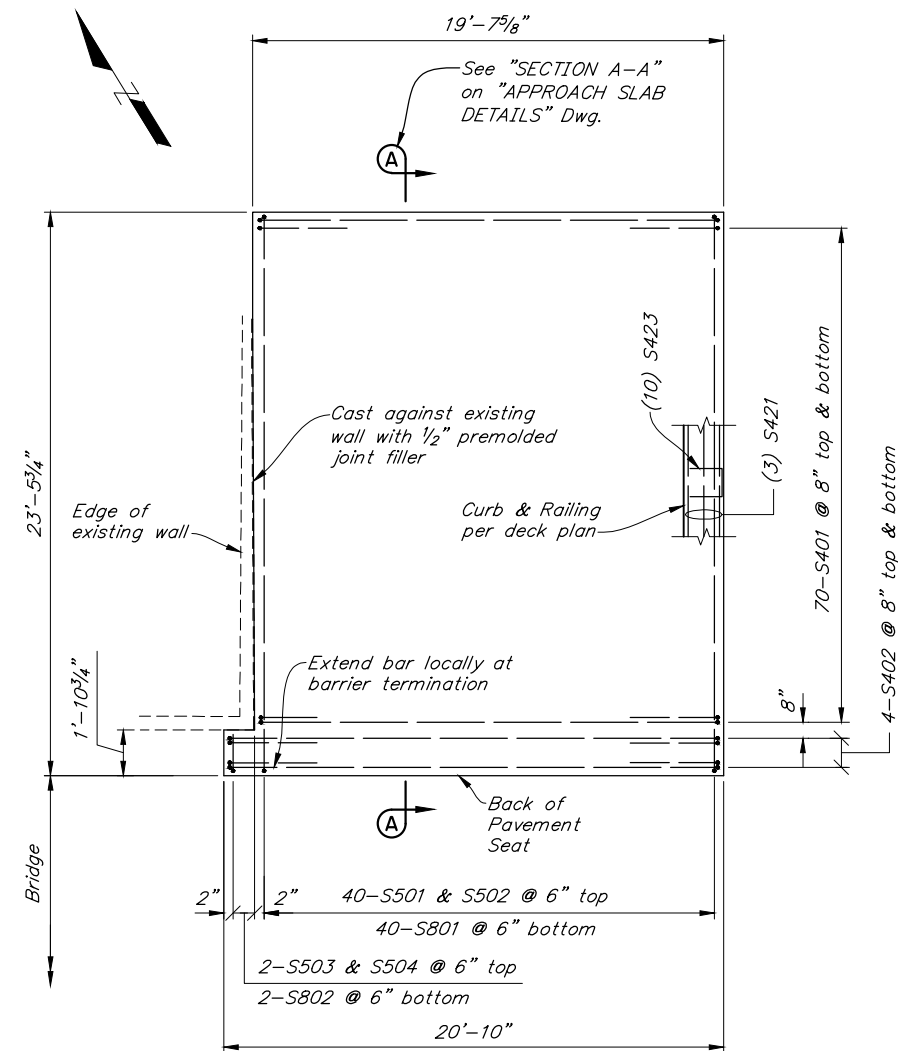
MARK	NOTE	SIZE	NO.	LENGTH	TYPE
S401	E	4	70	19' - 0"	
S402	E	4	4	20' - 4"	
S411	E	4	74	18' - 7"	
S412	E	4	20	20' - 4"	
S421	E	4	3	30' - 0"	
S422	E	4	31	4' - 2"	BENT
S423	E	4	20	3' - 8"	BENT
S424	E	4	3	5' - 11"	
S501	E	5	40	23' - 1"	
S502	E	5	83	5' - 0"	
S503	E	5	2	0' - 11"	
S504	E	5	2	5' - 0"	
S511	E	5	39	30' - 0"	
S513	E	5	4	5' - 11"	
S801	E	8	40	23' - 1"	
S802	E	8	2	0' - 11"	
S513	E	5	4	5' - 11"	
S801	E	8	40	23' - 1"	

BENDING DIAGRAM

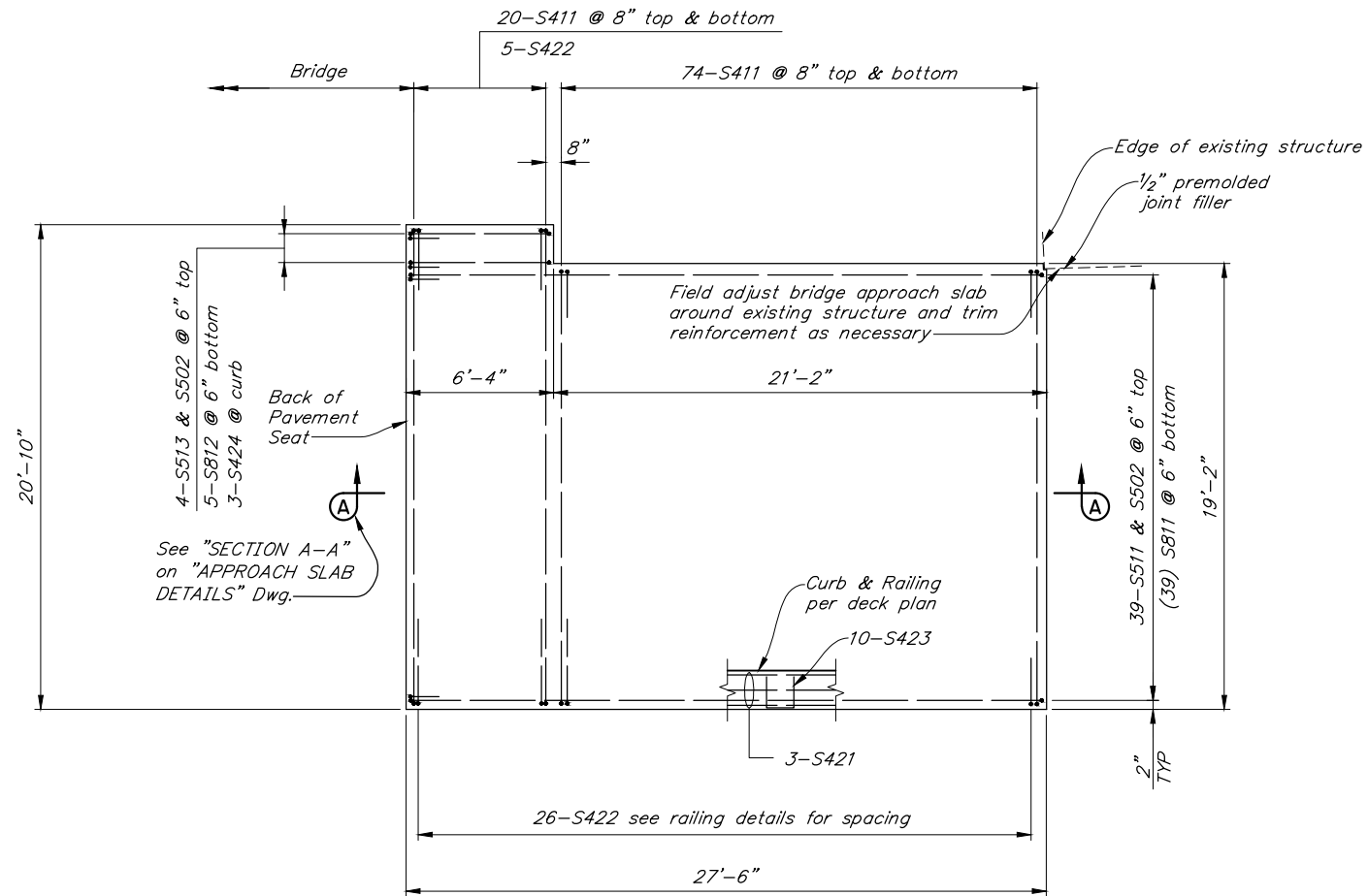
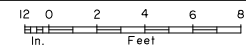


Note: All dimensions are out to out.

E = Epoxy coated reinforcing steel.
S = Spliced permitted. Length does not include splices.



GORGE STREET APPROACH SLAB PLAN



SAYLES STREET APPROACH SLAB PLAN



NOTES:

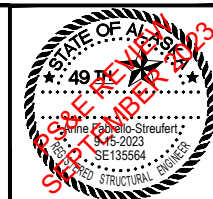
1. Provide 1/2" radius at all edges of bridge approach slab except at longitudinal joints and adjacent to L-Type abutments.
2. The minimum lap splice of #5 is 2'-6", #6 is 3'-0", and #8 is 3'-3", all lap splices shall be staggered so that no more than 50% of rebar is spliced at the same location, lap splices shall be located within the middle half of the bridge approach slab. Optional splices are allowed for #6.
3. For traffic barrier details, including any bridge approach slab blockout information, see traffic barrier sheets.

09/15/23 | 4:22 PM | Joshp V:\1800239\Sayles-Gorge Viaduct\02_Design (v2019)\1841-N38 Approach Slab Layout.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
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PLANS DEVELOPED BY:
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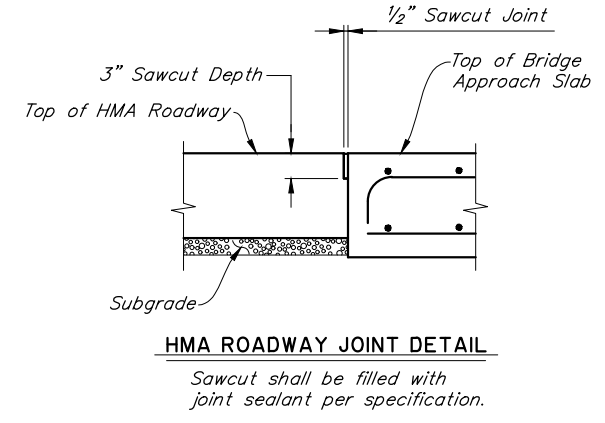
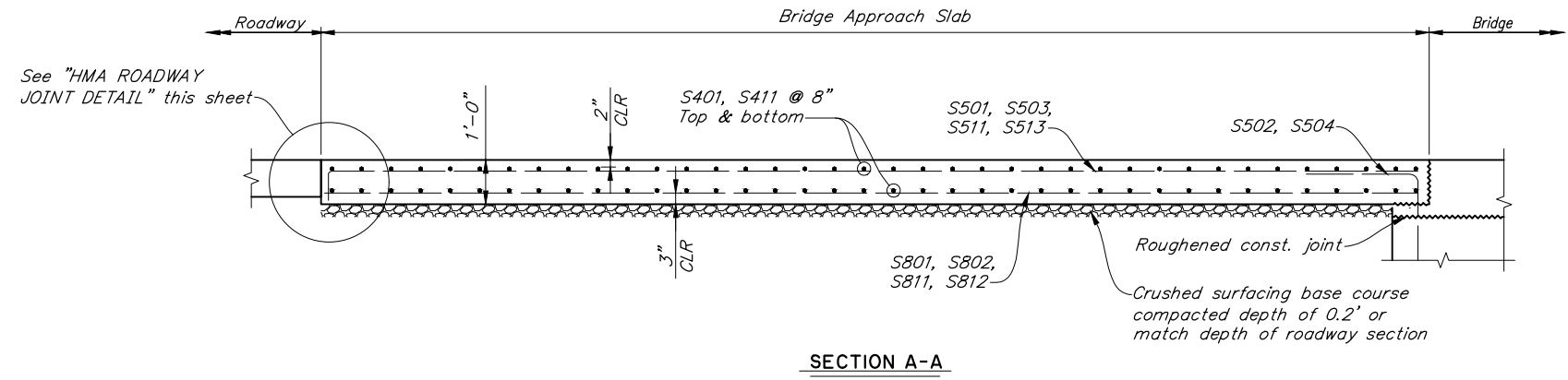


SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
APPROACH SLAB LAYOUT



BRIDGE NO. 1841
DWG. NO. 38

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N39	N46



09/13/23 | 9:02 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N39 Approach Slab Details.dwg

DESIGNED BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>
DRAWN BY: <i>Rick Torgeson</i>	CHECKED: <i>Joshua Pruitt</i>
QUANTITIES BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>

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 PLANS DEVELOPED BY:
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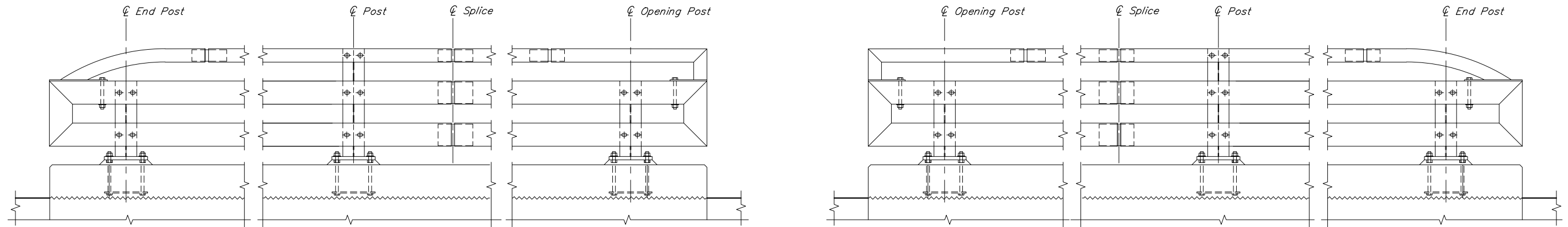
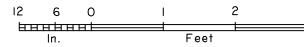
SAYLES - GORGE STREET VIADUCT
 SAYLES ST & GORGE ST
APPROACH SLAB DETAILS


 BRIDGE NO. 1841
 DWG. NO. 39

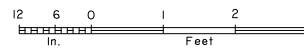
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N40	N46



PLAN



ELEVATION



09/13/23 | 9:10 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N40 Traffic Barrier Details 1.dwg

DESIGNED BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>
DRAWN BY: <i>Rick Torgeson</i>	CHECKED: <i>Joshua Pruitt</i>
QUANTITIES BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

PLANS DEVELOPED BY:
KPF ENGINEERING CONSULTING
1601 5th Ave, Suite 1600, Seattle, WA 98101
(206) 622-5822

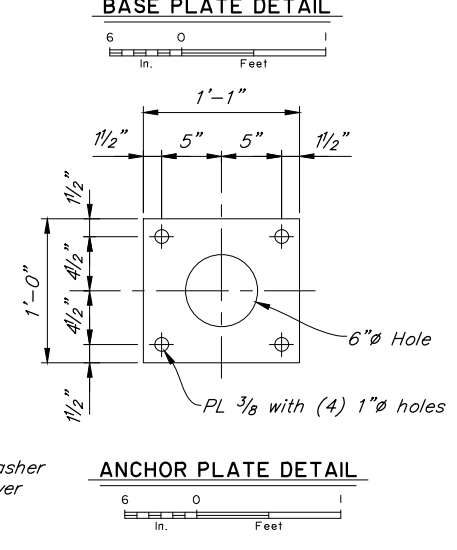
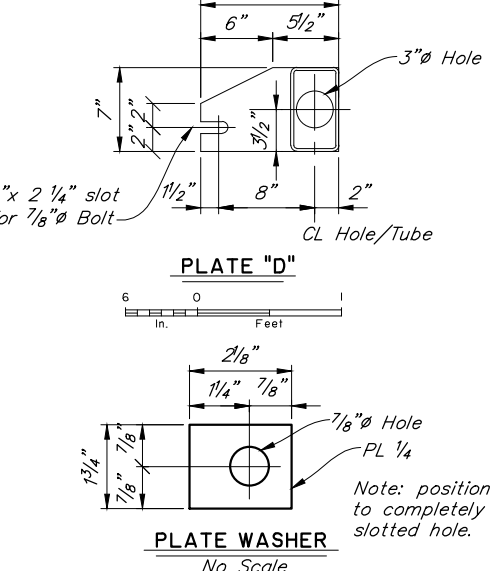
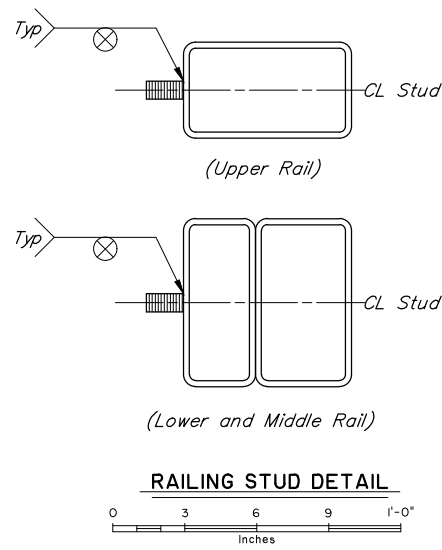
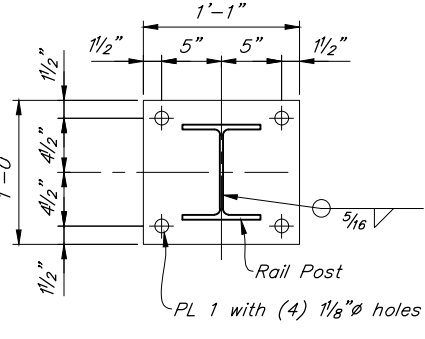
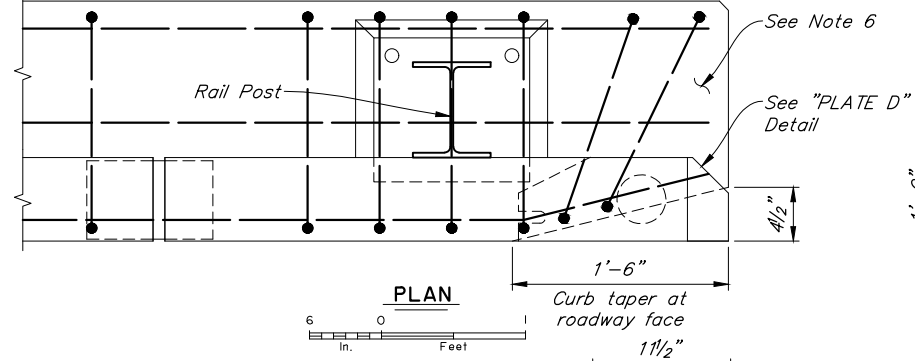
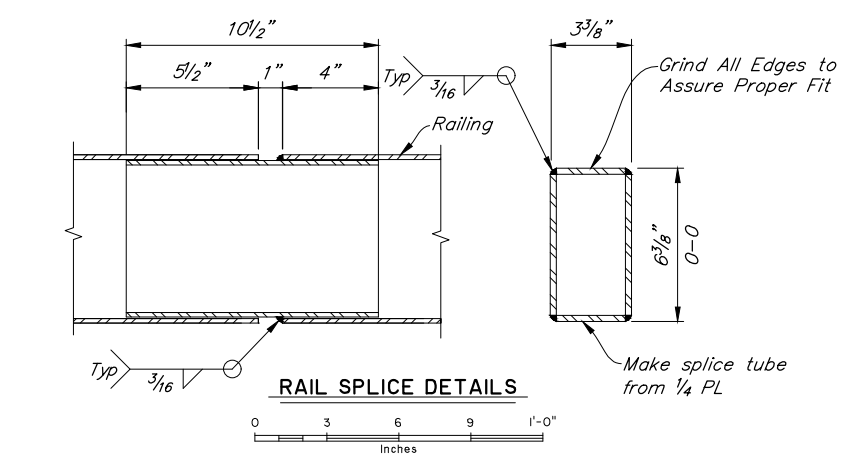
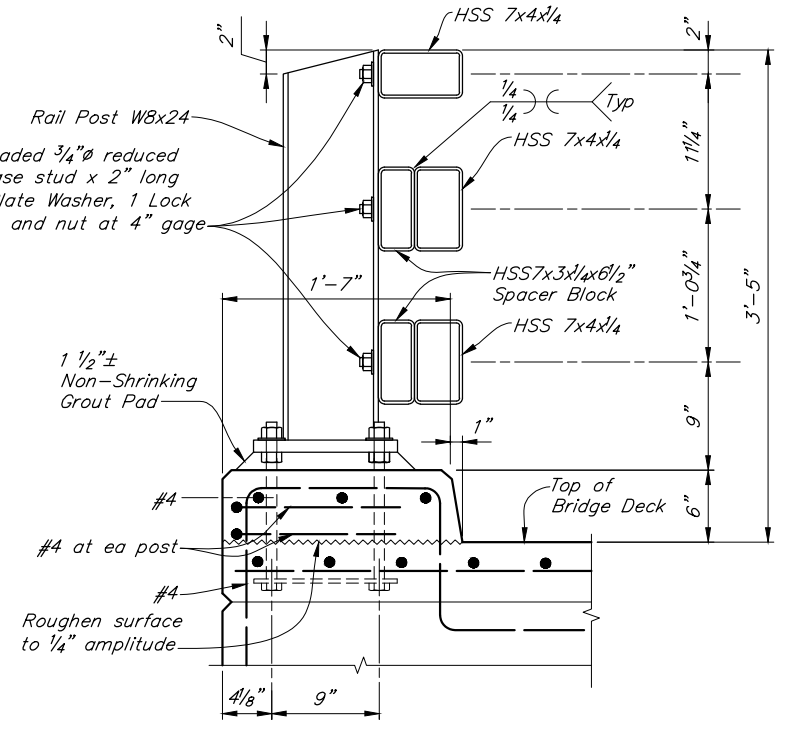
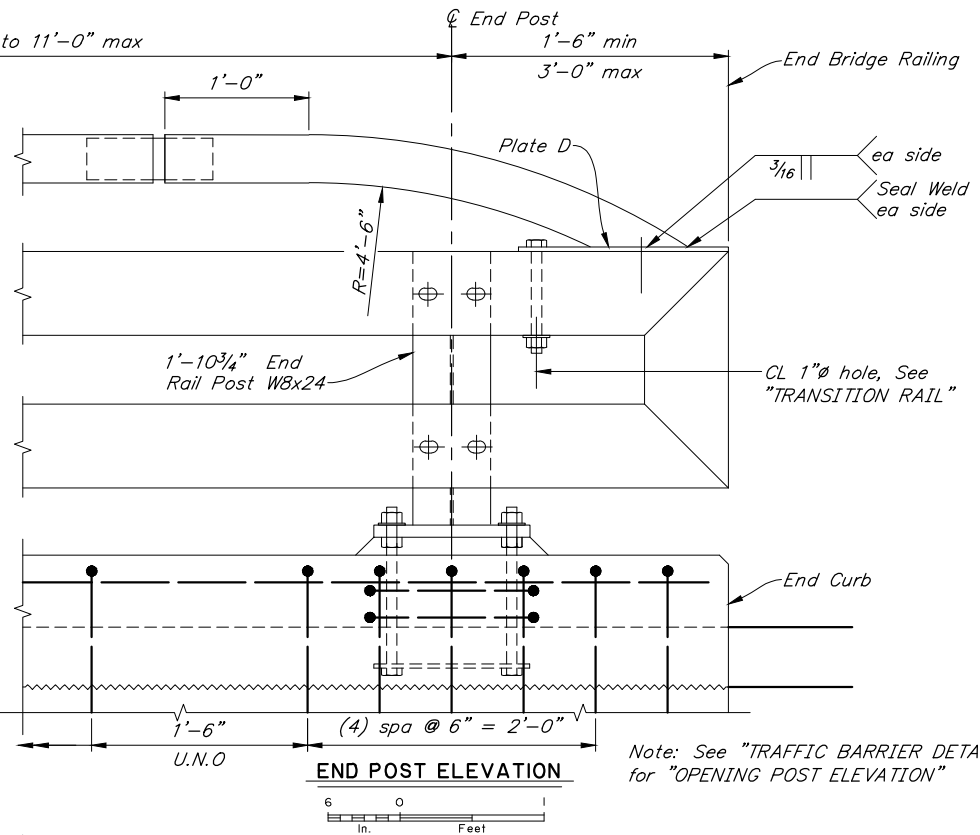
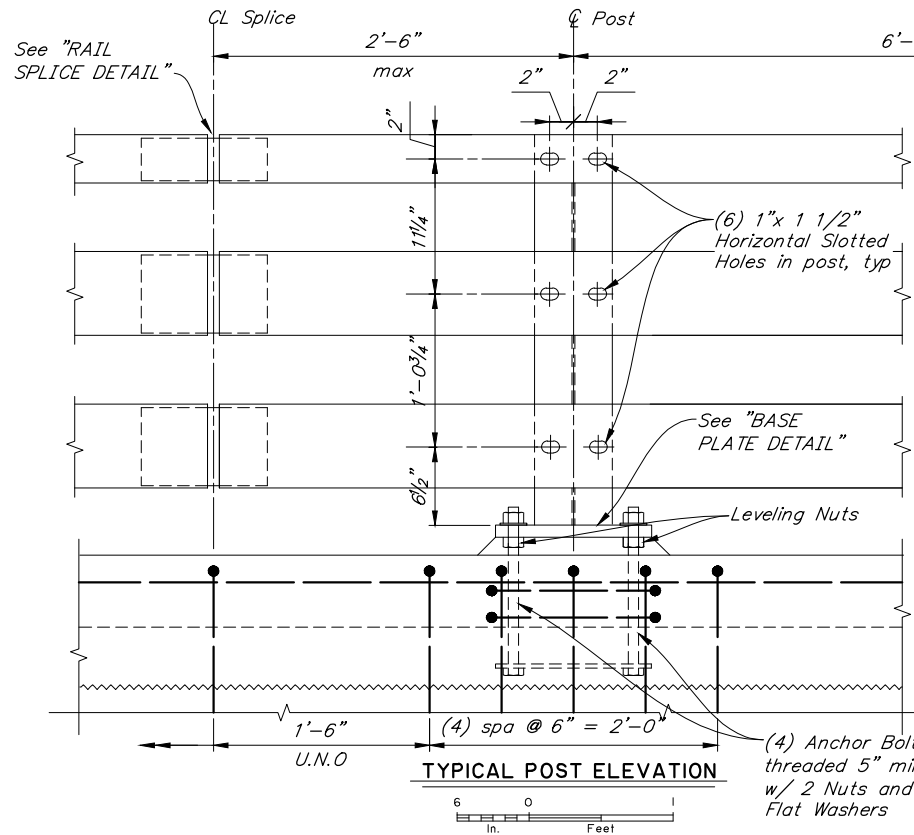


SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
TRAFFIC BARRIER DETAILS 1



BRIDGE NO. 1841
DWG. NO. 40

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N41	N46



- NOTES:**
- All plates and rolled sections shall be structural low alloy steel AASHTO A874 or A588 grade 50W.
 - Nuts, bolts, and washers shall conform to ASTM F3125 A325 Type 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.
 - Install grout in a single placement.
 - Install bridge rail post plumb.
 - Adjust reinforcing to accommodate curb taper.

09/13/23 | 9:18 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N41 Traffic Barrier Details 2.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

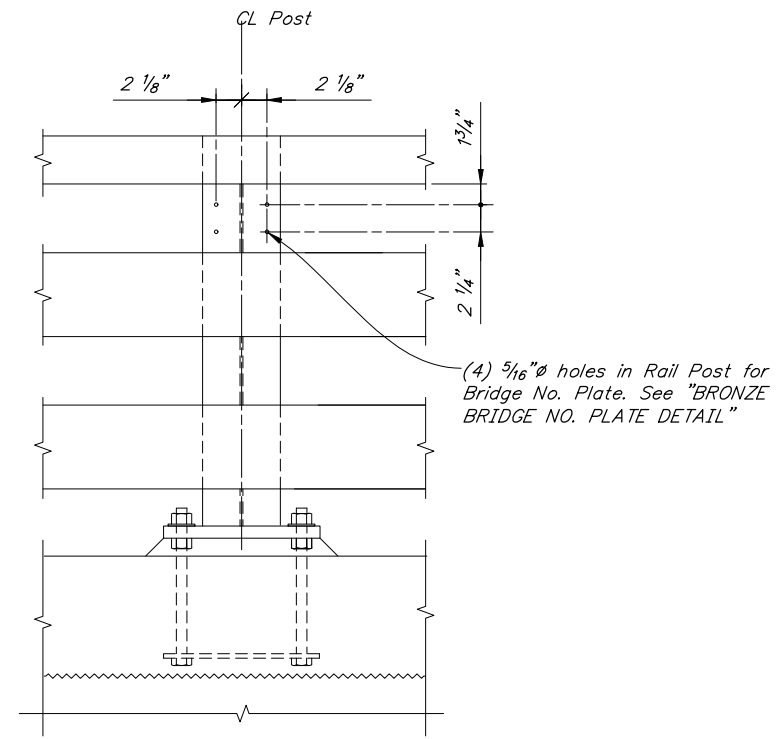
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SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
TRAFFIC BARRIER DETAILS 2

BRIDGE NO. 1841
 DWG. NO. 41

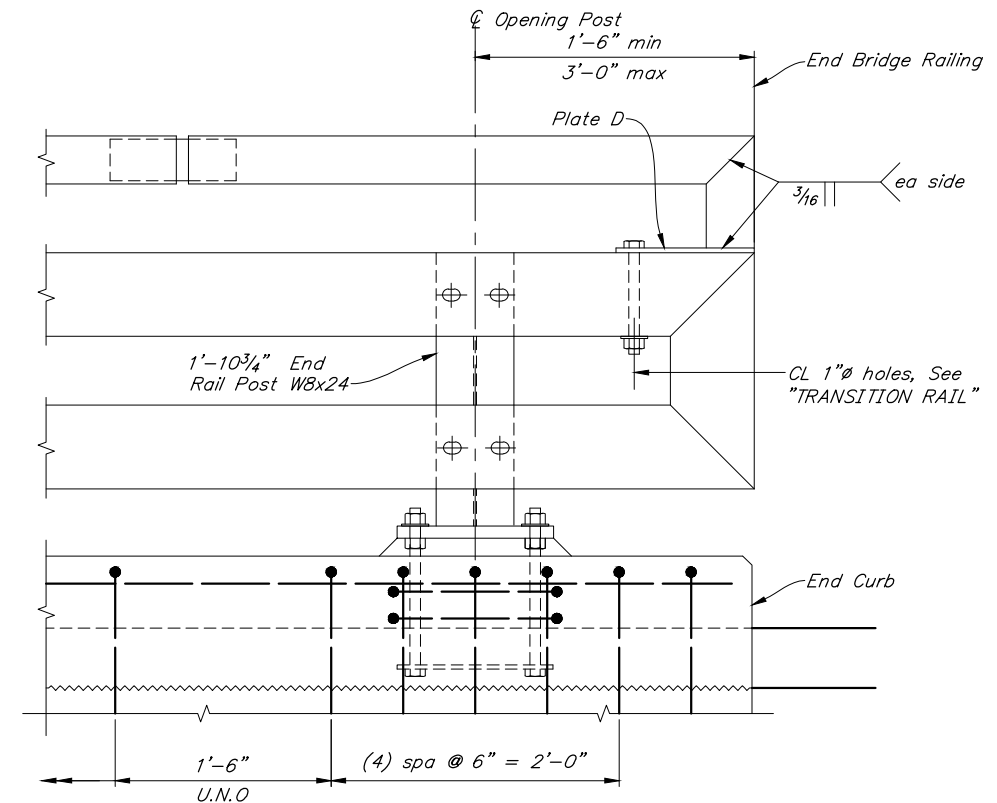
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHUY00070	2023	N42	N46



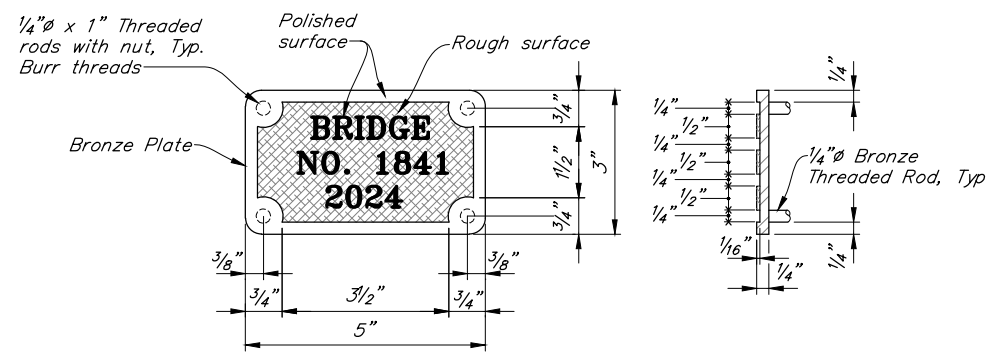
NOTES:

1. Locate bridge number plates on right hand side of approaching traffic near each end as shown on "GENERAL LAYOUT" Dwg. (2 total).
2. Furnish bridge number plates. Use "Century" type style lettering. Use studs and nuts that conform to UNS C65100 or C65500. Braze 1/4" dia. threaded rod to back of plate with nut - 4 required. Use tamper proof nuts.

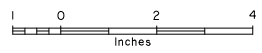
BRIDGE NO. PLATE LOCATION DETAIL



OPENING POST ELEVATION



BRONZE BRIDGE NO. PLATE DETAIL



09/13/23 | 9:21 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N42 Traffic Barrier Details 3.dwg


DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

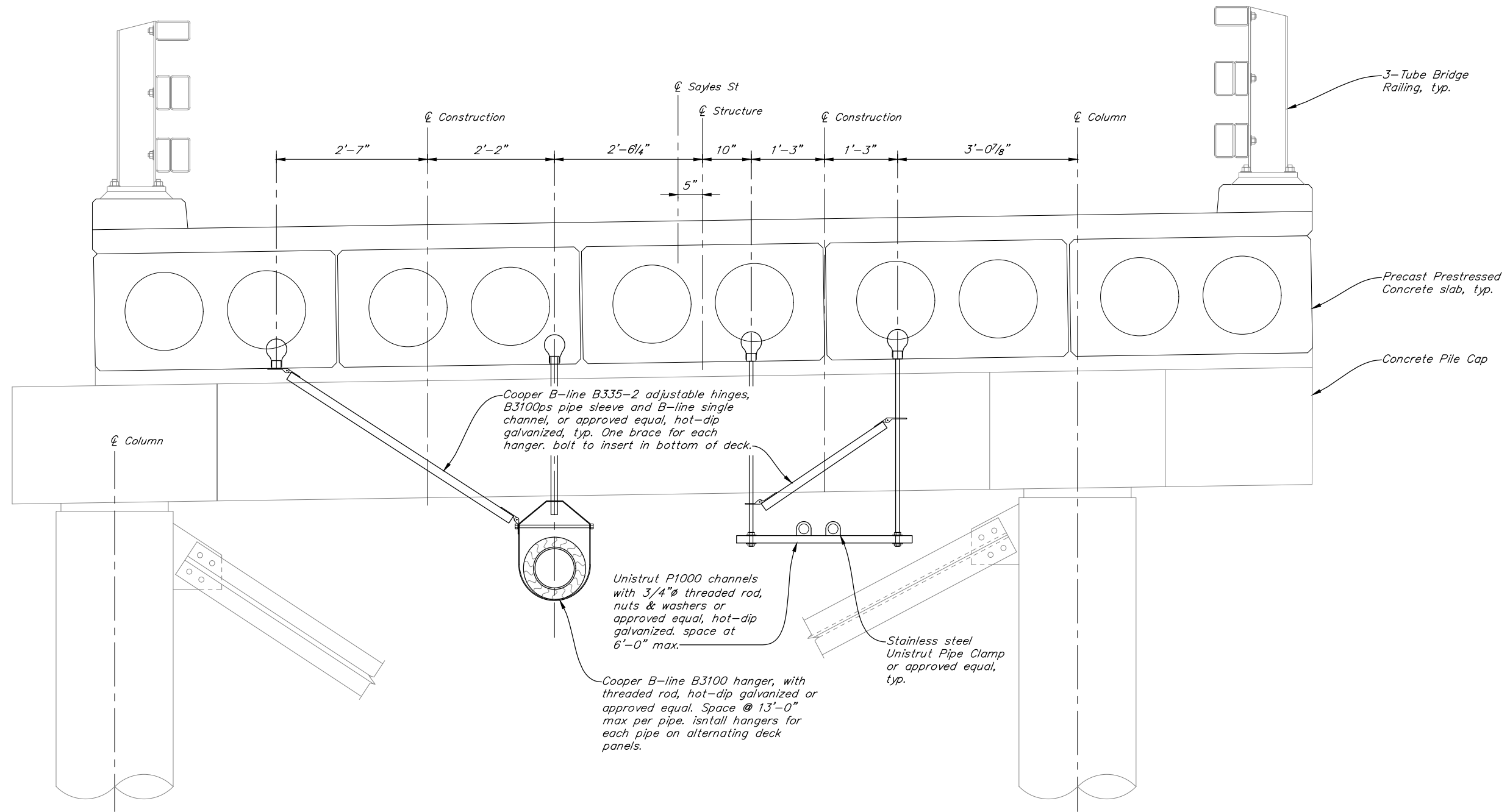
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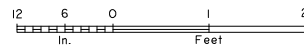
SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
TRAFFIC BARRIER DETAILS 3


 BRIDGE NO. 1841
 DWG. NO. 42

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N43	N46



UTILITY HANGER DETAILS



09/15/23 | 4:24 PM | Joshp V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N43 Bridge Utility Hanger Details.dwg

DESIGNED BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>
DRAWN BY: <i>Rick Torgeson</i>	CHECKED: <i>Joshua Pruitt</i>
QUANTITIES BY: <i>Andrew Gastineau</i>	CHECKED: <i>Joshua Pruitt</i>

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 (206) 622-5822

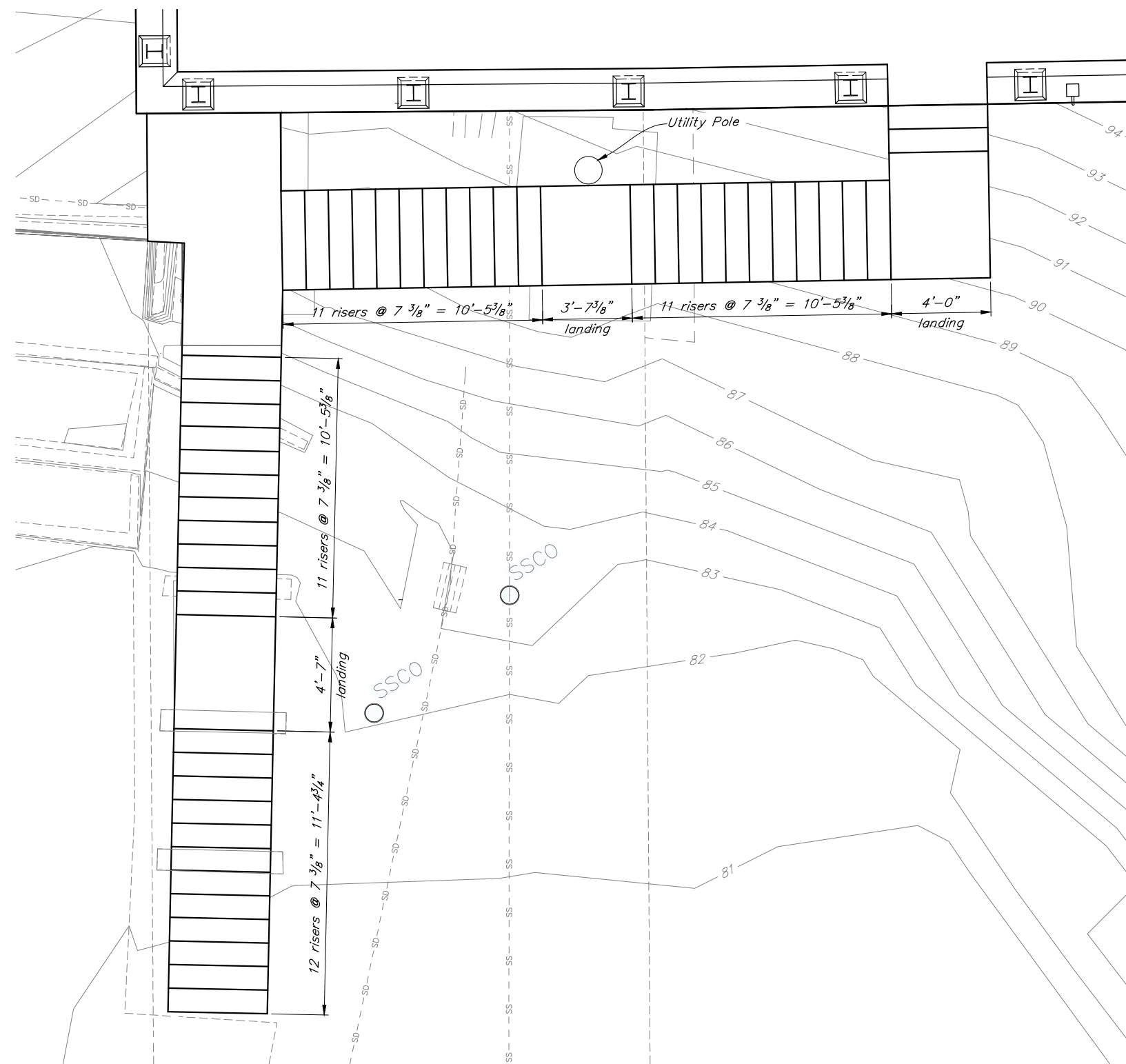


SAYLES/GORGE ST. VIADUCT
 SAYLES ST & GORGE ST
UTILITY HANGER DETAILS

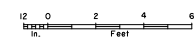


BRIDGE NO. 1841
 DWG. NO. 43

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHwy00070	2023	N44	N46



TIMBER STAIR PLAN



TIMBER STAIR NOTES

GENERAL
Stairs shall be constructed in accordance with Section 506 of the Specifications.

Dimensions provided in these plans are informational, except for rail height. The intent is that stairs will be constructed to fit the new as-constructed bridge elevations and existing landings that remain. Rail height shall be as shown.

The Contractor shall verify dimensions and elevations prior to construction of stairs.

MATERIALS
Timber: per Section 713

Preservatives for Timber: per Section 714

Steel Parts and Hardware: Hot-dip galvanize unless noted otherwise. Provide materials per Section 506 and these plans.

INSTALLATION
Stair widths shall match existing landings. Approximate stair widths between inside of rails are shown in these plans. Treads shall be constructed of single timbers. Tread depth and riser height shall not vary by more than 3/8" in any flight of stairs and shall fall within the following limits:

- Tread depth: Min. = 11"
- Max. = 12"
- Riser height: Min. = 4"
- Max. = larger of 7" or the existing riser height

09/15/23 | 7:06 PM | Joshp V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N44 Timber Stair Plan.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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NOT FOR CONSTRUCTION
PLANS DEVELOPED BY:
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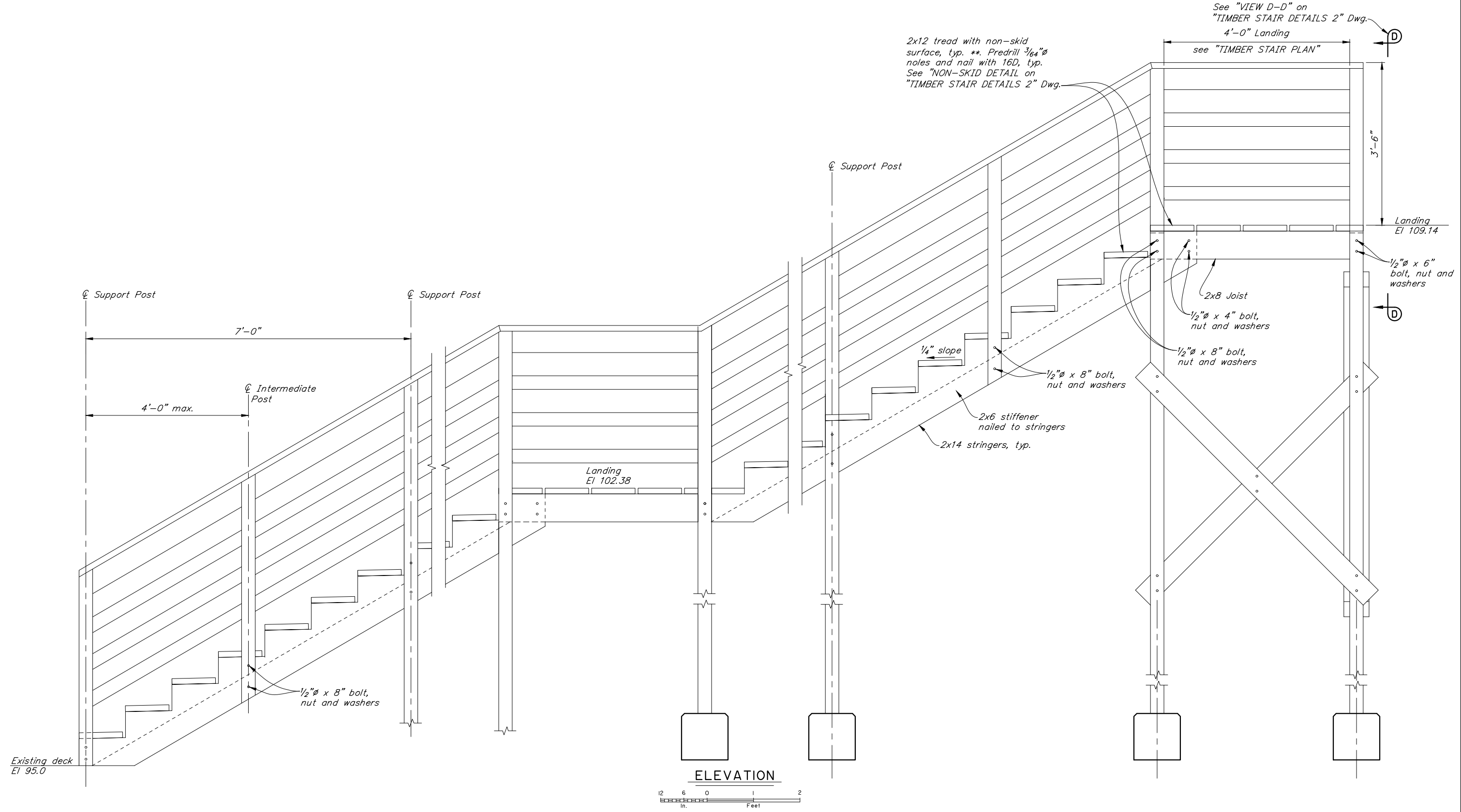


SAYLES - GORGE STREET VIADUCT
SAYLES ST & GORGE ST
TIMBER STAIR PLAN



BRIDGE NO. 1841
DWG. NO. 44

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWHY00070	2023	N45	N46



09/13/23 | 9:25 AM | RICKT V:\1800239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N45 Timber Stair Details 1.dwg

DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

PRE-PSE SUBMITTAL
NOT FOR CONSTRUCTION

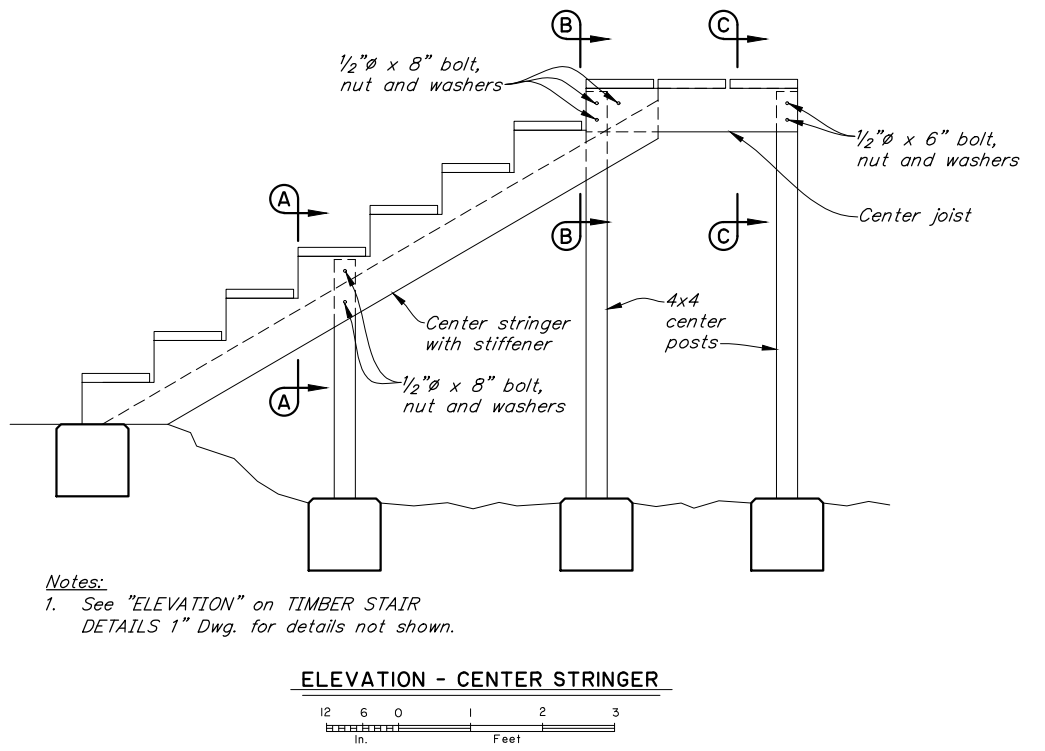
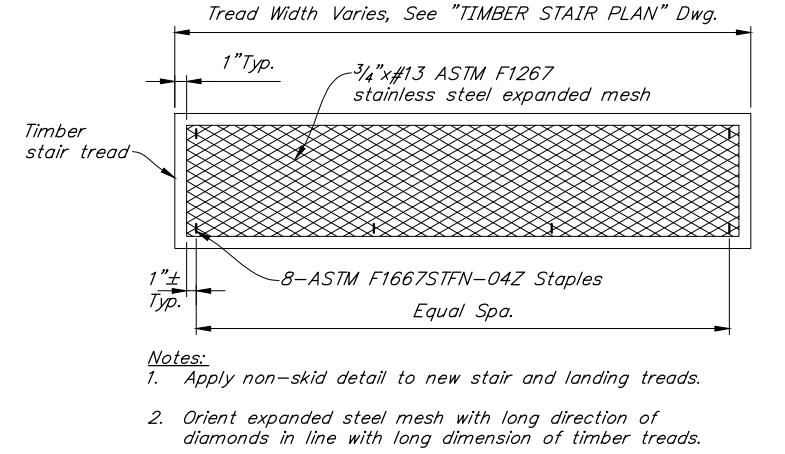
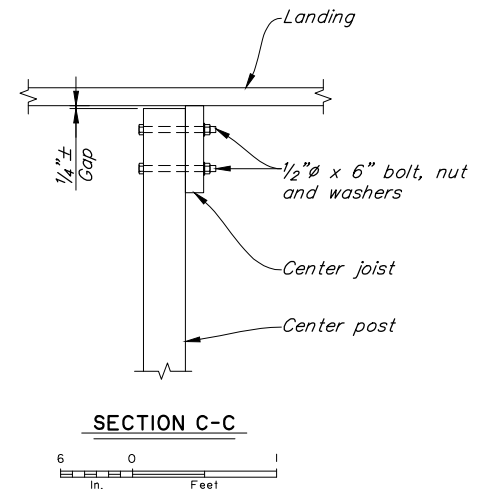
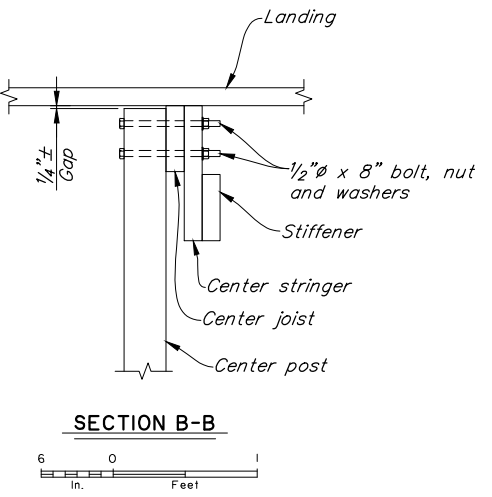
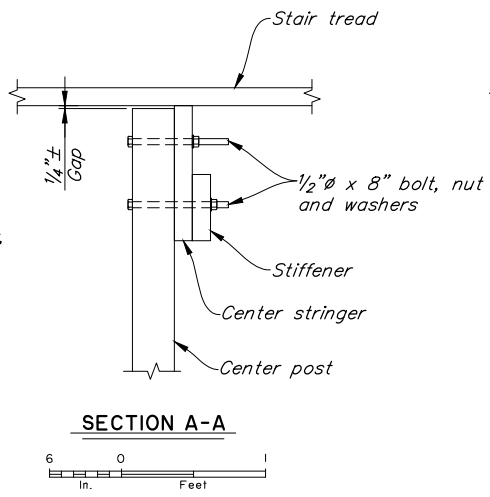
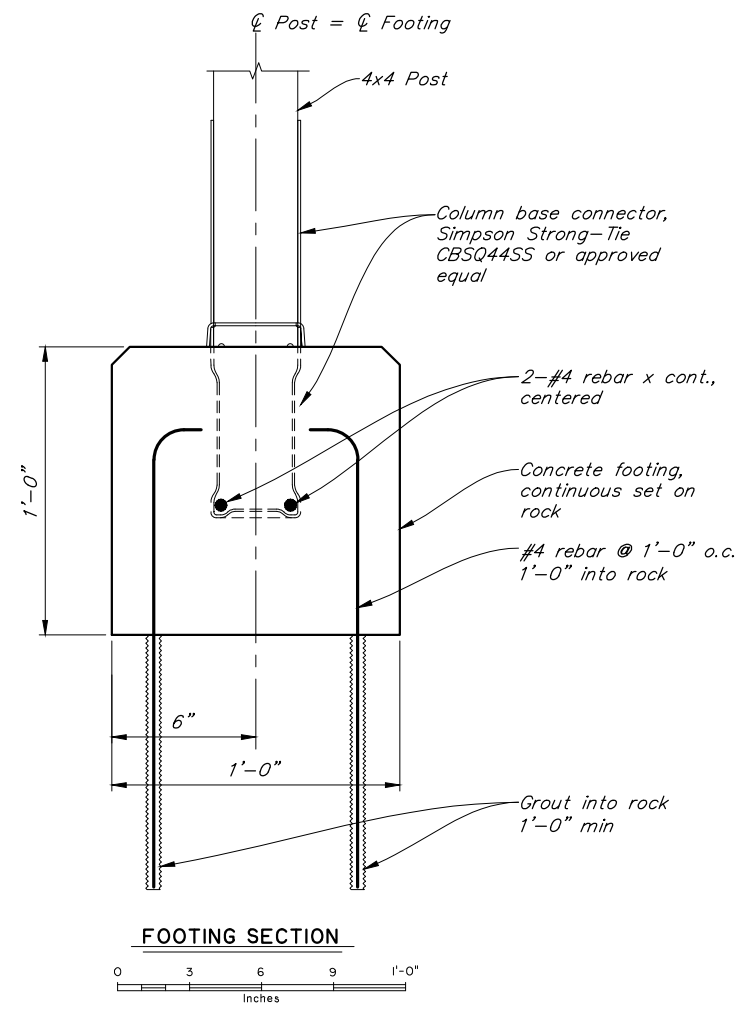
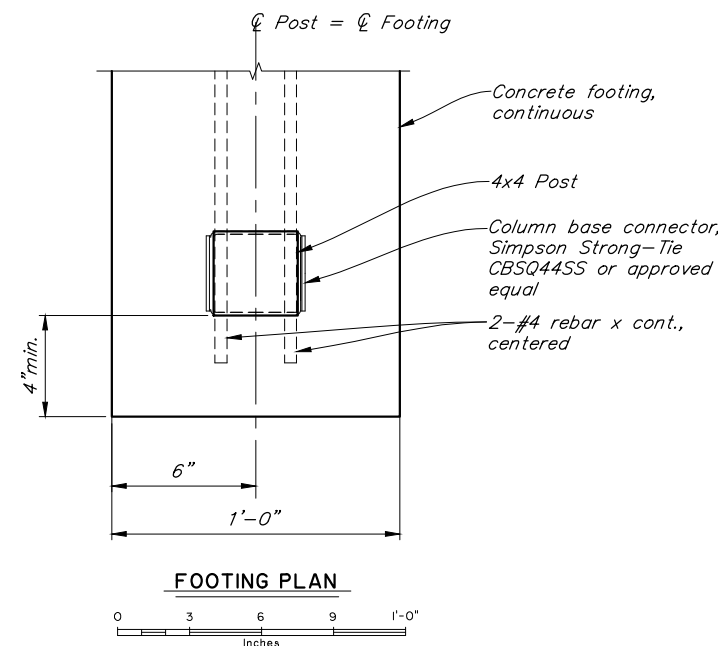
PLANS DEVELOPED BY:
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(206) 622-5822



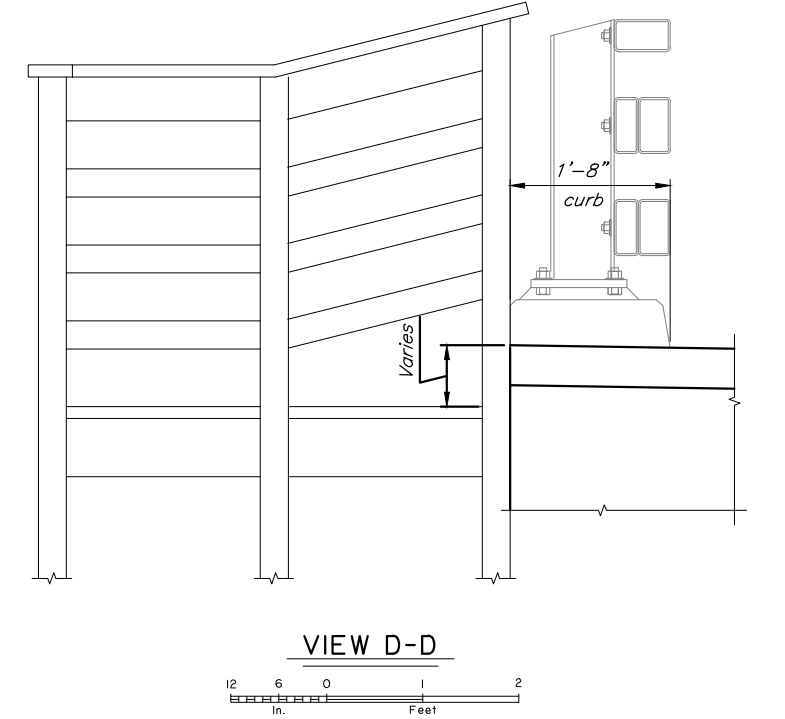
SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
TIMBER STAIR DETAILS 1


BRIDGE NO. 1841
DWG. NO. 45

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	0003225/SFHWO0070	2023	N46	N46



Notes:
1. See "ELEVATION" on TIMBER STAIR DETAILS 1" Dwg. for details not shown.



09/13/23 | 9:26 AM | RICKT V:\18020239 (Sayles-Gorge Viaduct)\02_Design (v2019)\1841-N46 Timber Stair Details 2.dwg

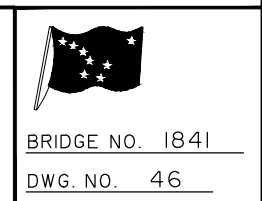
DESIGNED BY: Andrew Gastineau	CHECKED: Joshua Pruitt
DRAWN BY: Rick Torgeson	CHECKED: Joshua Pruitt
QUANTITIES BY: Andrew Gastineau	CHECKED: Joshua Pruitt

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NOT FOR CONSTRUCTION

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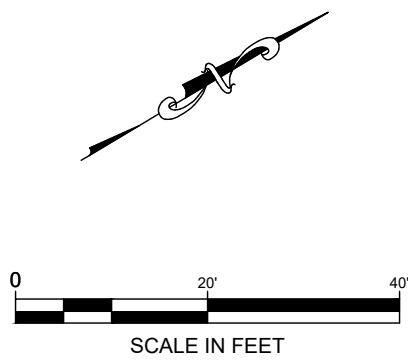
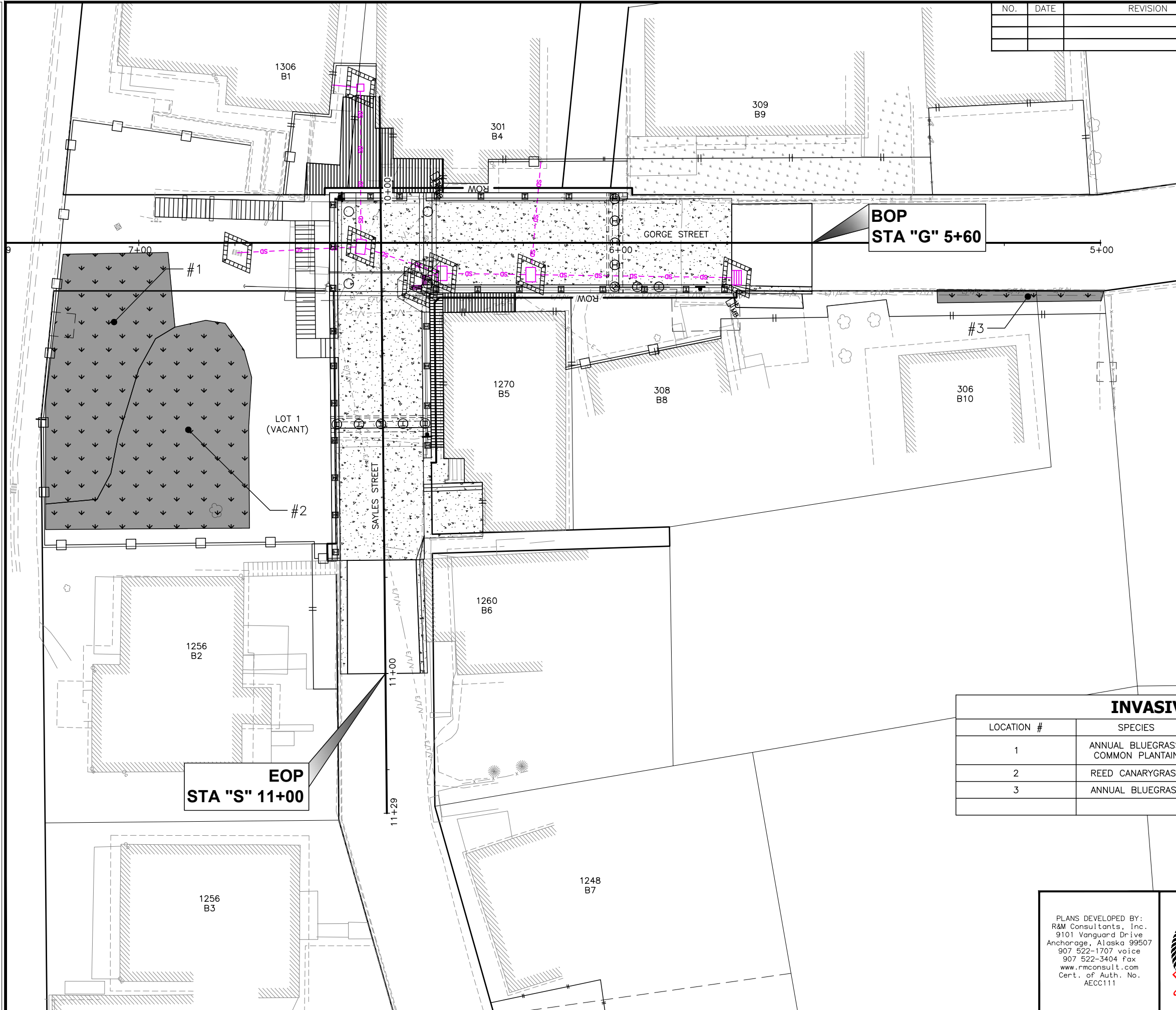
SAYLES/GORGE ST. VIADUCT
SAYLES ST & GORGE ST
TIMBER STAIR DETAILS 2



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DATE: 9/18/23 LAYOUT: P2 DESIGNED: JMH CHECKED: JLO DRAFTED: AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	P2	P2



INVASIVE PLANT SPECIES			
LOCATION #	SPECIES	AREA (SY)	NOTES
1	ANNUAL BLUEGRASS, COMMON PLANTAIN	106.8	ALONG STAIRCASE DECK
2	REED CANARYGRASS	128.5	ALONG ROCK CUT CLIFF
3	ANNUAL BLUEGRASS	9.2	ALONG STRIP OF GRAVEL

PLANS DEVELOPED BY:
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Anchorage, Alaska 99507
907 522-1707 voice
907 522-3404 fax
www.rmconsult.com
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AECC111






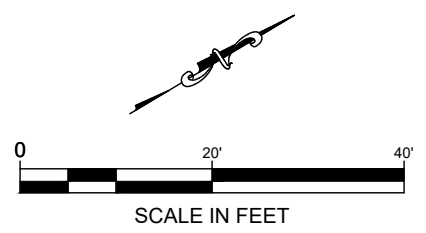
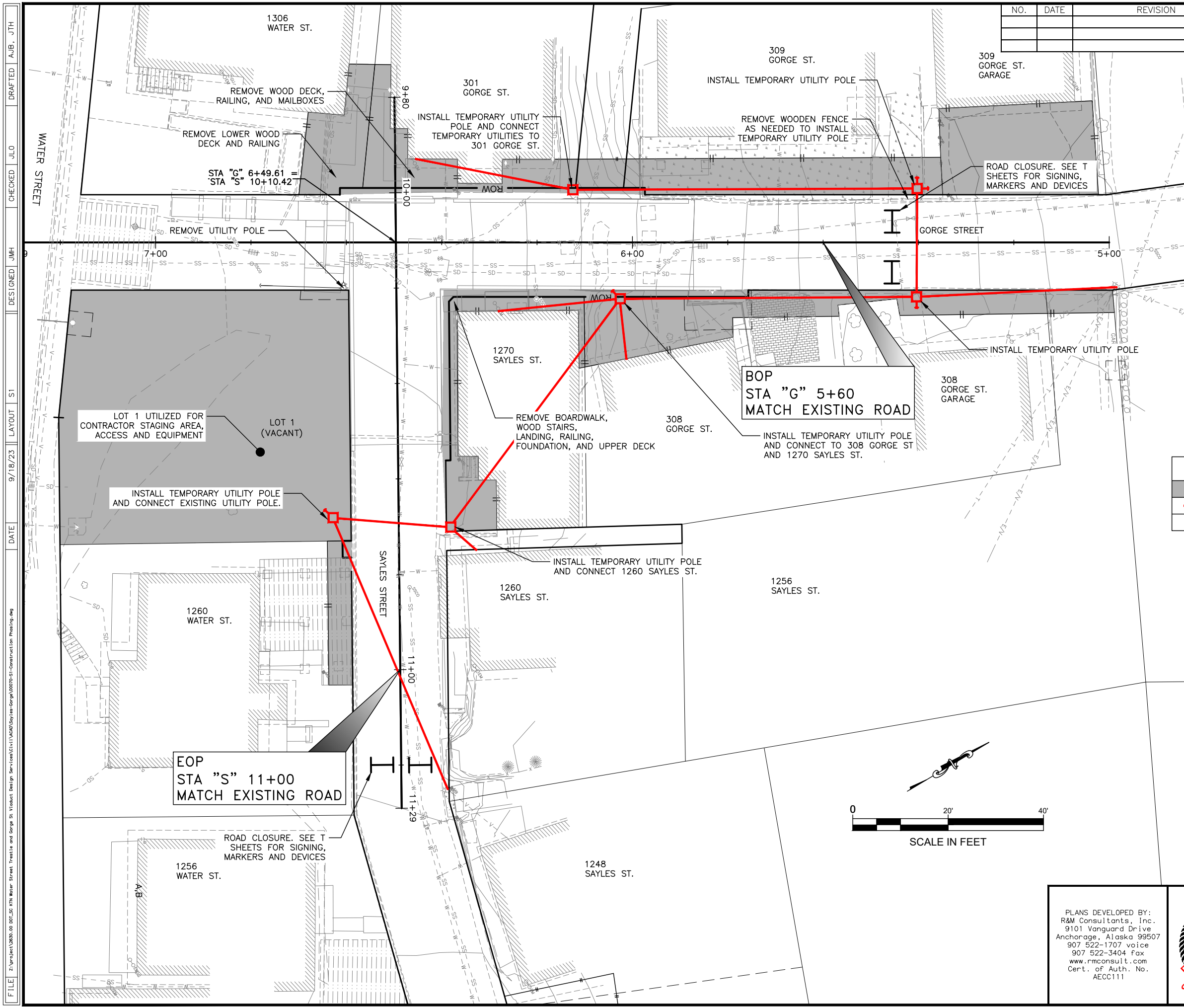
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763
KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS
EROSION AND SEDIMENT
CONTROL PLAN

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	S1	S4

PHASE 1 NOTES:

1. SEE TRAFFIC CONTROL SHEETS FOR ALL ROAD CLOSURE SIGNING, MARKERS AND DEVICES.
2. MOBILIZE AND PREP LOT 1 FOR STAGING AREA, ACCESS AND EQUIPMENT STORAGE.
3. REMOVE PRIVATE PROPERTY INCLUDING BOARDWALK, WOOD DECK, RAILING, AND MAILBOXES.
4. INSTALL TEMPORARY UTILITY POLES AND RELOCATE OVERHEAD UTILITIES. SEE U-SHEETS FOR POLE LOCATIONS.
5. INSTALL TEMPORARY UTILITY SERVICES TO ALL BUILDINGS IMPACTED WITHIN PROJECT LIMITS.
6. REMOVE EXISTING UTILITY POLE.

CONSTRUCTION PHASING LEGEND	
	CONTRACTOR STAGING AND WORK AREA
	TEMPORARY OVERHEAD UTILITY RELOCATION
	TEMPORARY OVERHEAD UTILITY POLE/GUY WIRE



FILE Z:\projects\2023-24\003225\00070\00070-S1\00070-S1-Construction-Phase1.dwg DATE 9/18/23 LAYOUT ST DESIGNED JMH CHECKED JLO DRAFTED AJB, JTH

PLANS DEVELOPED BY:
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 9101 Vanguard Drive
 Anchorage, Alaska 99507
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 www.rmconsult.com
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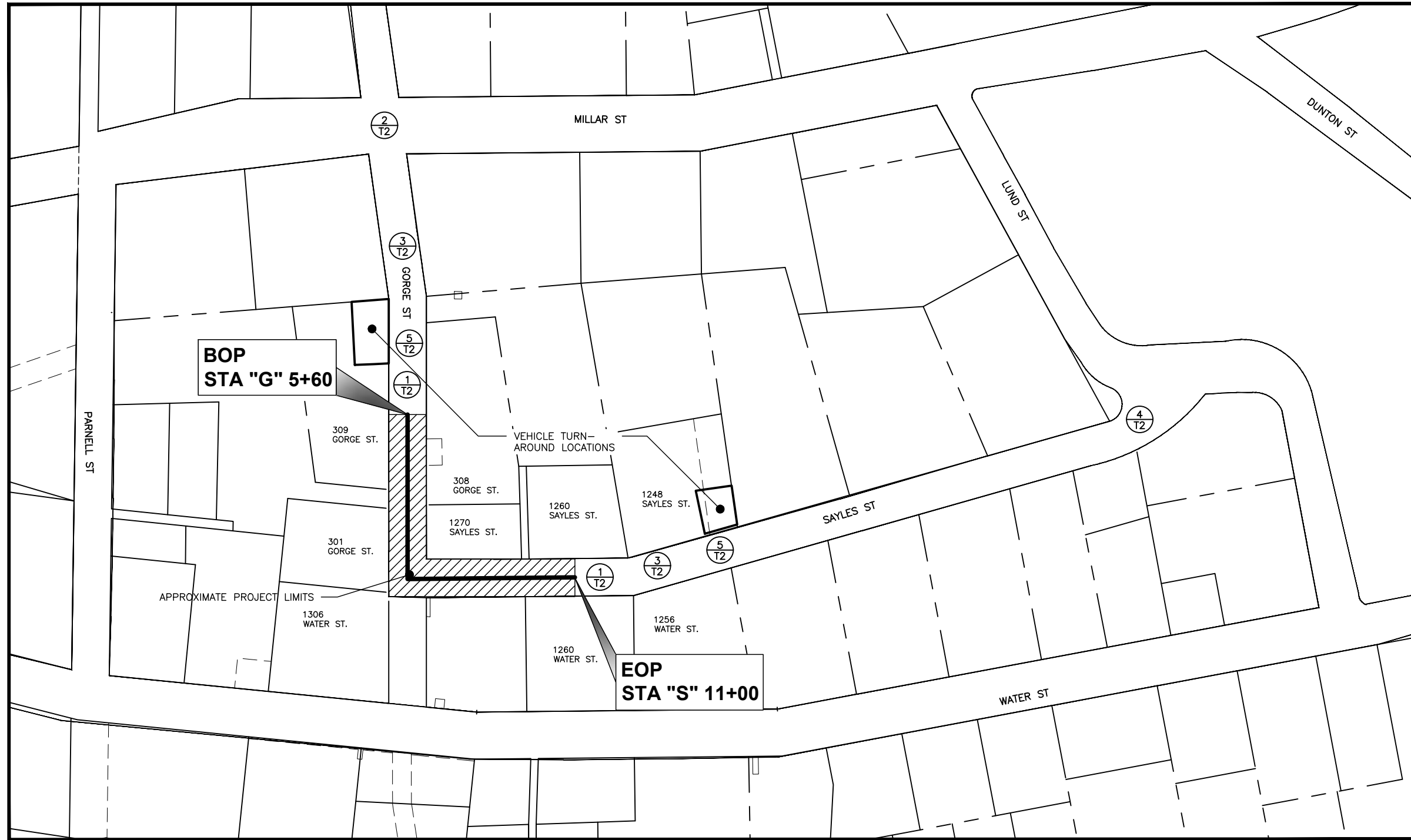
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

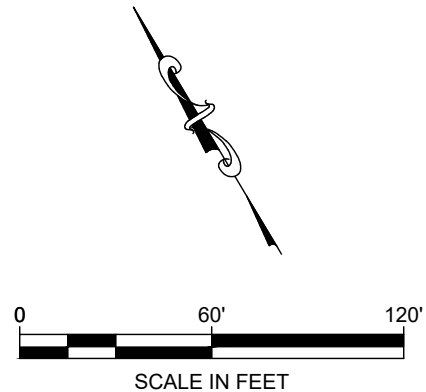
CONSTRUCTION PHASE 1

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2023	T1	T2

FILE: Z:\projects\0826-00-001-02-17th Water Street, Transit and Gorge St. Viaduct Design Services\1\1\08260001\1\08260001-17thTraffic.dwg
 DATE: 9/18/23 LAYOUT: T1 DESIGNED: JMH CHECKED: JLO DRAFTED: AJB, JTH



VICINITY MAP



LEGEND	
DESCRIPTION	SYMBOL
SIGN	
TYPE III BARRICADE	
TYPE I BARRICADE	
WORK AREA	
ROAD CLOSURE	

GENERAL TRAFFIC CONTROL NOTES:

- SEE SECTION 643-3.08 FOR LIMITATIONS ON TRAFFIC RESTRICTIONS.
- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. THE FINAL TCP ADDRESSING IN DEPTH THE VARIETY OF SITUATIONAL THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED SHALL BE COMPLETED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW BY THE ENGINEER.

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 Anchorage, Alaska 99507
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 907 522-3404 fax
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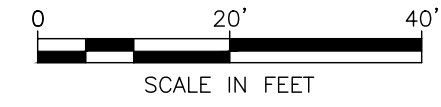


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 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

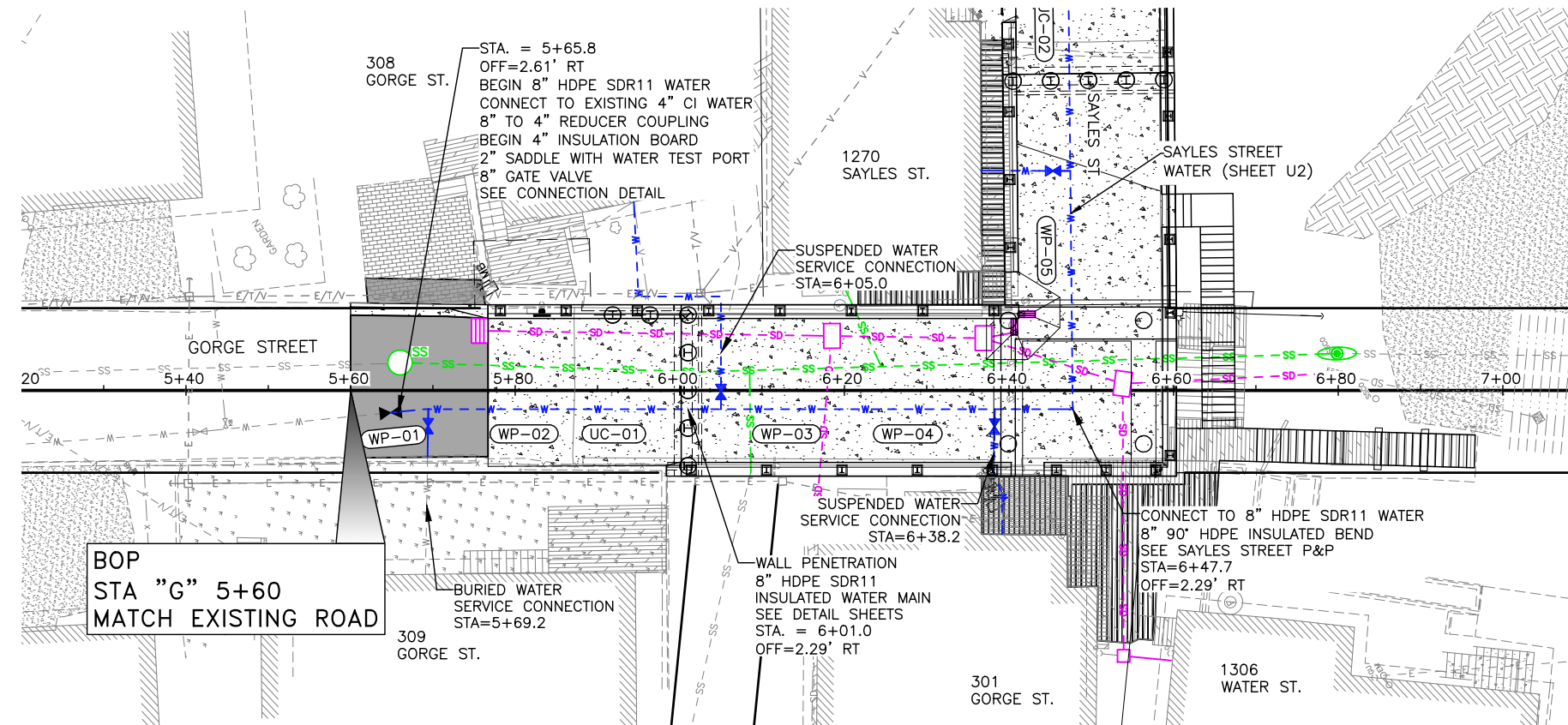
KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

LEGEND, VICINITY MAP, AND PEDESTRIAN DETOUR ROUTE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	U1	U14



SCALE IN FEET

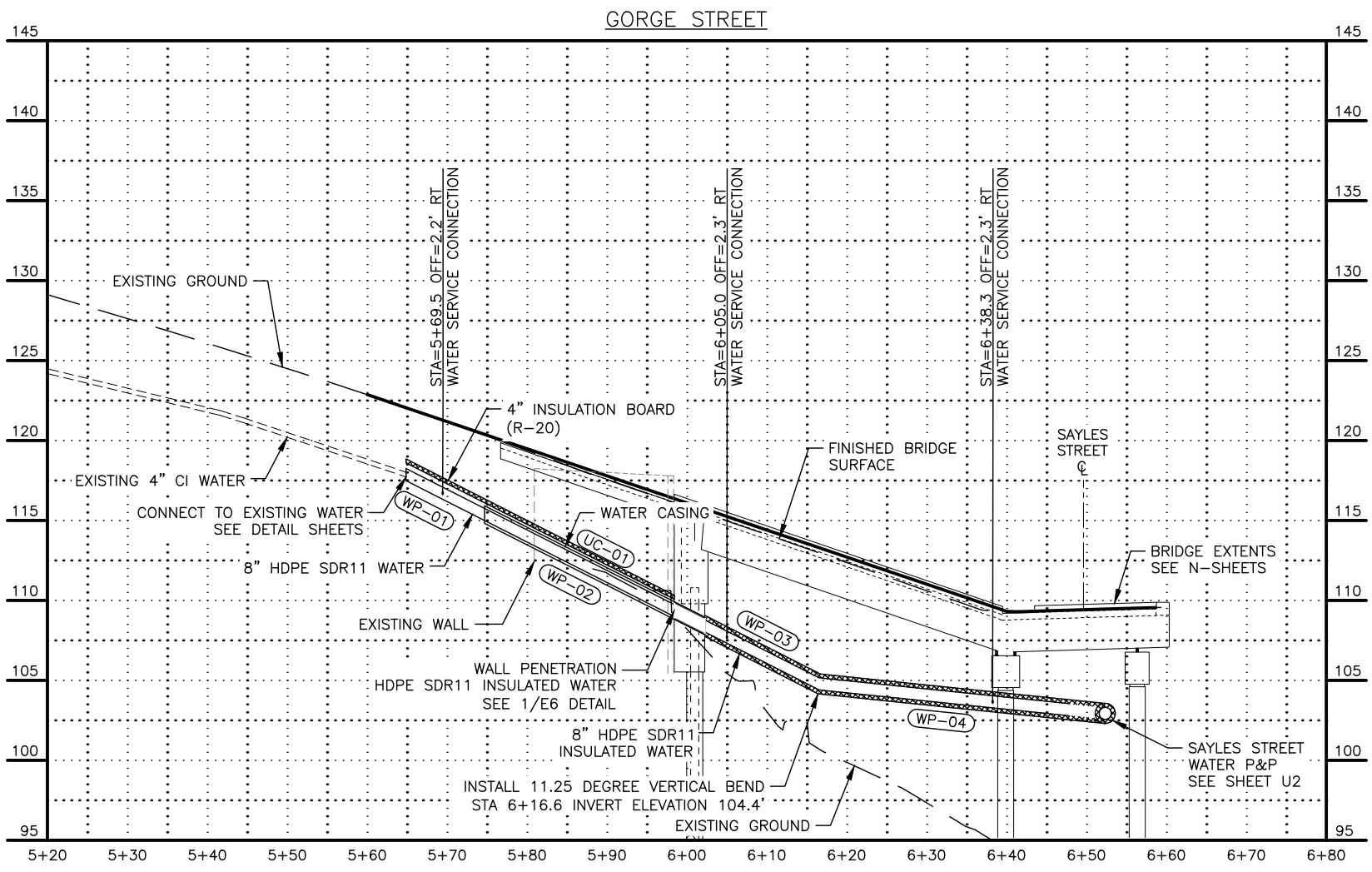


DEMOLITION & TEMPORARY SERVICE NOTES:

- EXISTING WATER MAIN AND APPURTENANCES TO BE REMOVED AND DISPOSED OF BY CONTRACTOR. SEE F SHEETS.
- EXISTING UTILITY LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK.
- WATER, SANITARY SEWER, AND STORM DRAIN REMOVAL IS PAID UNDER BID ITEM 202.0001.0000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- SEE SUMMARY TABLE IN D SHEETS FOR BID ITEM 202.0001.0000 FOR ADDITIONAL INFORMATION.
- PROVIDE TEMPORARY SERVICES PRIOR TO DEMOLITION OF UTILITIES.

CONSTRUCTION NOTES:

- CONSTRUCT WATER SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 627.
- KPU WATER DIVISION, KETCHIKAN FIRE DEPARTMENT, AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER SERVICE TO EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL HAVE A TEMPORARY WATER SERVICE PLAN REVIEWED AND APPROVED BY ADEC.
- REPLACE ALL WATER SERVICES TO THE EDGE OF RIGHT-OF-WAY OR TO RESIDENCE AS SHOWN.
- REPLACE ALL WATER SERVICE VALVE BOXES.
- BURIED WATER MAINS SHALL HAVE 4' MINIMUM COVER. WHERE MINIMUM COVER IS NOT POSSIBLE, INSTALL 4" BOARD INSULATION AS SHOWN.
- TRACE WIRE SHALL BE INSTALLED 12" ABOVE BURIED WATER MAINS. USE 8 GAGE WIRE ABOVE MAINS.
- NO PIPE LENGTH LESS THAN EIGHT (8') FEET SHALL BE INCORPORATED IN THE WATER SYSTEM EXCEPT FOR THOSE NECESSARY FOR FIRE HYDRANTS OR VALVE LOCATIONS.
- THRUST RESTRAINT SHALL BE PROVIDED BY USE OF FIELD-LOK GASKETS (OR EQUAL) OR MEG-A-LUG FITTINGS (OR EQUAL) ON ALL MECHANICAL JOINTS.
- THE CONTRACTOR SHALL OPEN BORE FLUSH THE NEWLY INSTALLED WATER MAIN PRIOR TO INSTALLATION OF WATER SERVICES. PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE.
- PIPE DEFLECTION MAY BE ACCOMPLISHED BY FUSED INSTALLATION OF PRE-FORMED ELBOWS.
- MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL SEPARATION BETWEEN THE WATER MAIN(S) AND SEWER/STORM DRAIN PIPING UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WHEN THE 10 FEET SEPARATION REQUIREMENT CANNOT BE ACHIEVED, INSTALL WATER MAINS A MINIMUM OF 18 INCHES ABOVE THE TOP OF SEWER/STORM PIPING.
- WHERE BURIED, THE WATER LINE, SEWER LINE, AND STORM DRAIN LINE WILL BE IN SEPARATE TRENCHES.
- WATER SERVICES SHALL BE 3/4" COPPER, TYPE K, UNLESS OTHERWISE NOTED ON PLANS.



PLANS DEVELOPED BY:
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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763

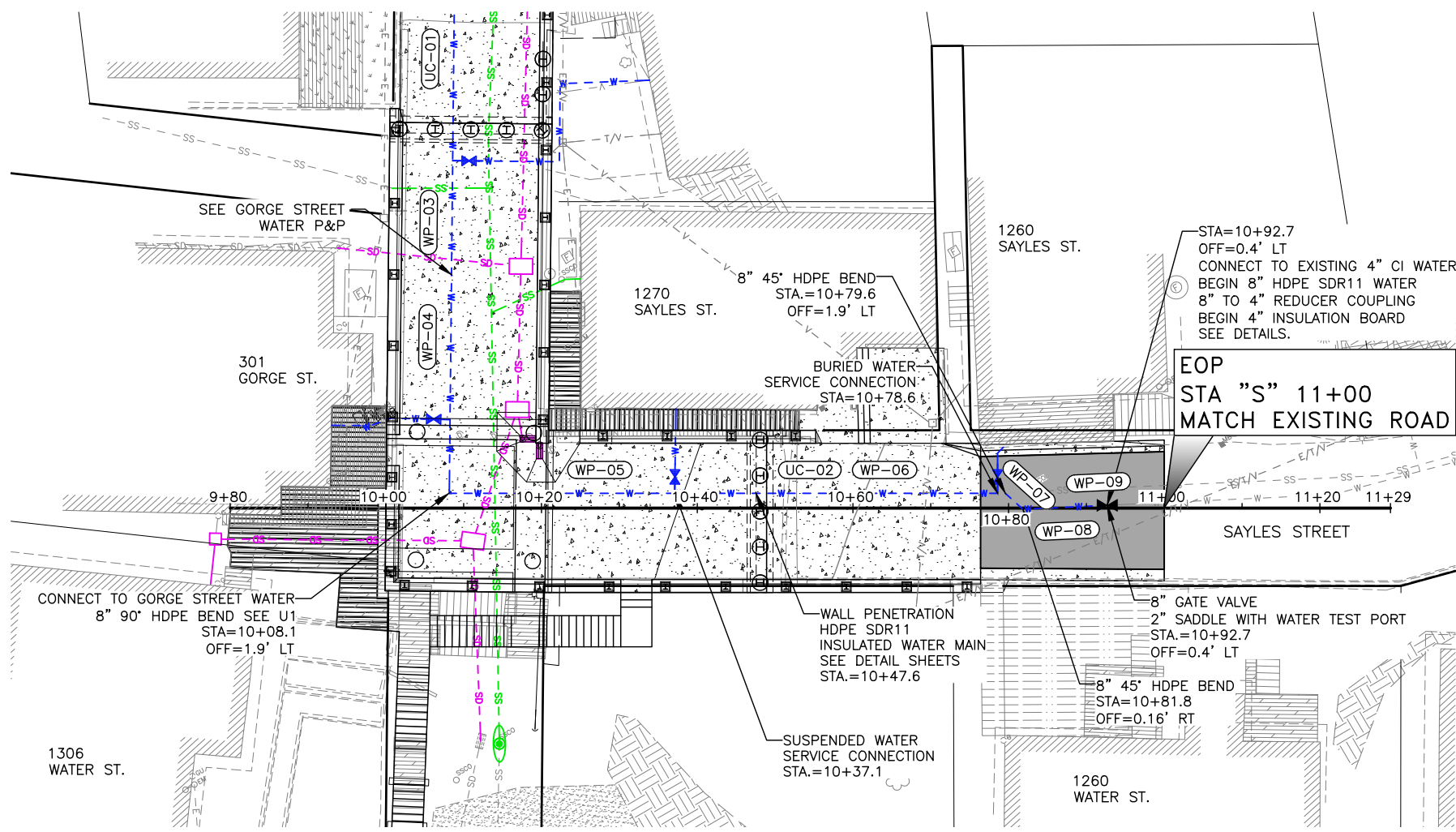
KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS

GORGE STREET WATER
PLAN & PROFILE

FILE: Z:\projects\2023-09-18\23-09-18\KTN_Sayles_and_Gorge_St_Viaduct_Design\KTN_Sayles_and_Gorge_St_Viaduct_Design.dwg
 DATE: 9/18/23
 LAYOUT: UT_WATER
 DESIGNED: JMH
 CHECKED: JLO
 DRAFTED: AJB, JTH

FILE: Z:\projects\06060-00-001-00-000-000\06060-00-001-000\06060-00-001-000-000-000.dwg
 DATE: 9/18/23
 LAYOUT: U2 WATER
 DESIGNED: JMH
 CHECKED: JLO
 DRAFTED: AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2023	U2	U14

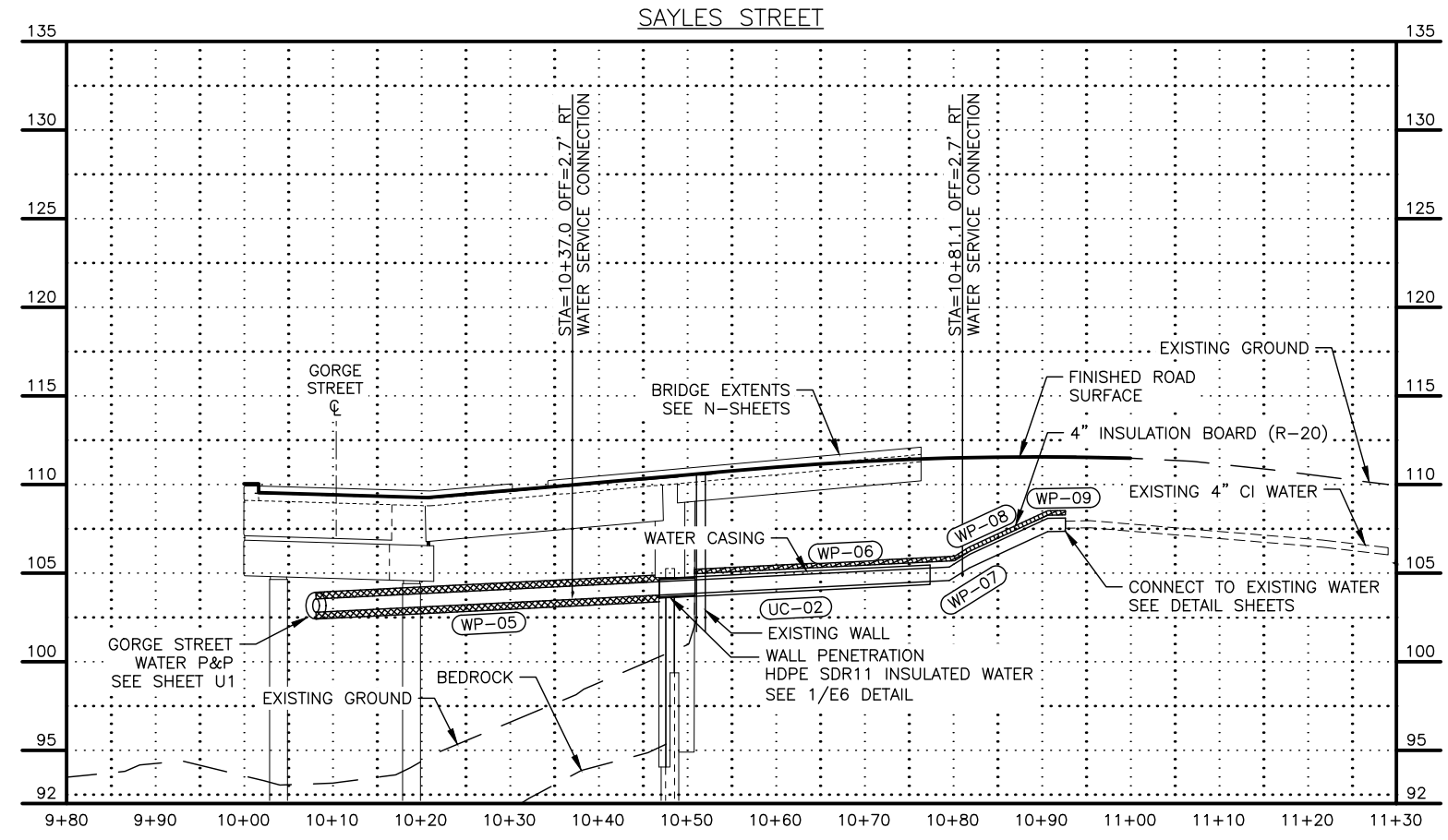


DEMOLITION & TEMPORARY SERVICE NOTES:

- EXISTING WATER MAIN AND APPURTENANCES TO BE REMOVED AND DISPOSED OF BY CONTRACTOR. SEE DEMOLITION PLAN.
- EXISTING UTILITY LOCATIONS TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK.
- WATER, SANITARY SEWER, AND STORM DRAIN REMOVAL IS PAID UNDER BID ITEM 202.0001.0000 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- SEE SUMMARY TABLE IN D SHEETS FOR BID ITEM 202.0001.0000 FOR ADDITIONAL INFORMATION.
- PROVIDE TEMPORARY WATER & SEWER SERVICES PRIOR TO DEMOLITION OF UTILITIES.

CONSTRUCTION NOTES:

- CONSTRUCT WATER SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 627.
- KPU WATER DIVISION, KETCHIKAN FIRE DEPARTMENT, AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER SERVICE TO EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL HAVE A TEMPORARY WATER SERVICE PLAN REVIEWED AND APPROVED BY ADEC.
- REPLACE ALL WATER SERVICES TO THE EDGE OF RIGHT-OF-WAY OR TO RESIDENCES AS SHOWN.
- REPLACE ALL WATER SERVICE VALVE BOXES.
- BURIED WATER MAINS SHALL HAVE 4' MINIMUM COVER. WHERE MINIMUM COVER IS NOT POSSIBLE, INSTALL 4" BOARD INSULATION AS SHOWN.
- TRACER WIRE SHALL BE INSTALLED 12" ABOVE BURIED WATER MAINS. USE 8 GAGE WIRE ABOVE MAINS.
- THRUST RESTRAINT SHALL BE PROVIDED BY USE OF FIELD-LOK GASKETS (OR EQUAL) OR MEG-A-LUG FITTINGS (OR EQUAL) ON ALL MECHANICAL JOINTS.
- THE CONTRACTOR SHALL OPEN BORE FLUSH THE NEWLY INSTALLED WATER MAIN PRIOR TO INSTALLATION OF WATER SERVICES. PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE.
- PIPE DEFLECTION MAY BE ACCOMPLISHED BY FUSED INSTALLATION OF PRE-FORMED ELBOWS.
- MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL SEPARATION BETWEEN THE WATER MAIN(S) AND SEWER/STORM DRAIN PIPING UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WHEN THE 10 FEET SEPARATION REQUIREMENT CANNOT BE ACHIEVED, INSTALL WATER MAINS A MINIMUM OF 18 INCHES ABOVE THE TOP OF SEWER/STORM PIPING.
- WHERE BURIED, THE WATER LINE, SEWER LINE, AND STORM DRAIN LINE WILL BE IN SEPARATE TRENCHES.
- WATER SERVICES SHALL BE 3/4" COPPER, TYPE K, UNLESS OTHERWISE NOTED ON PLANS.



PLANS DEVELOPED BY:
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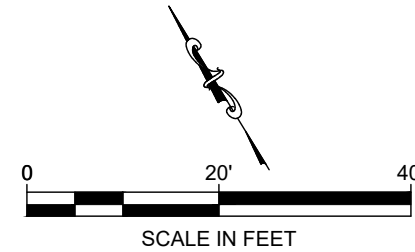
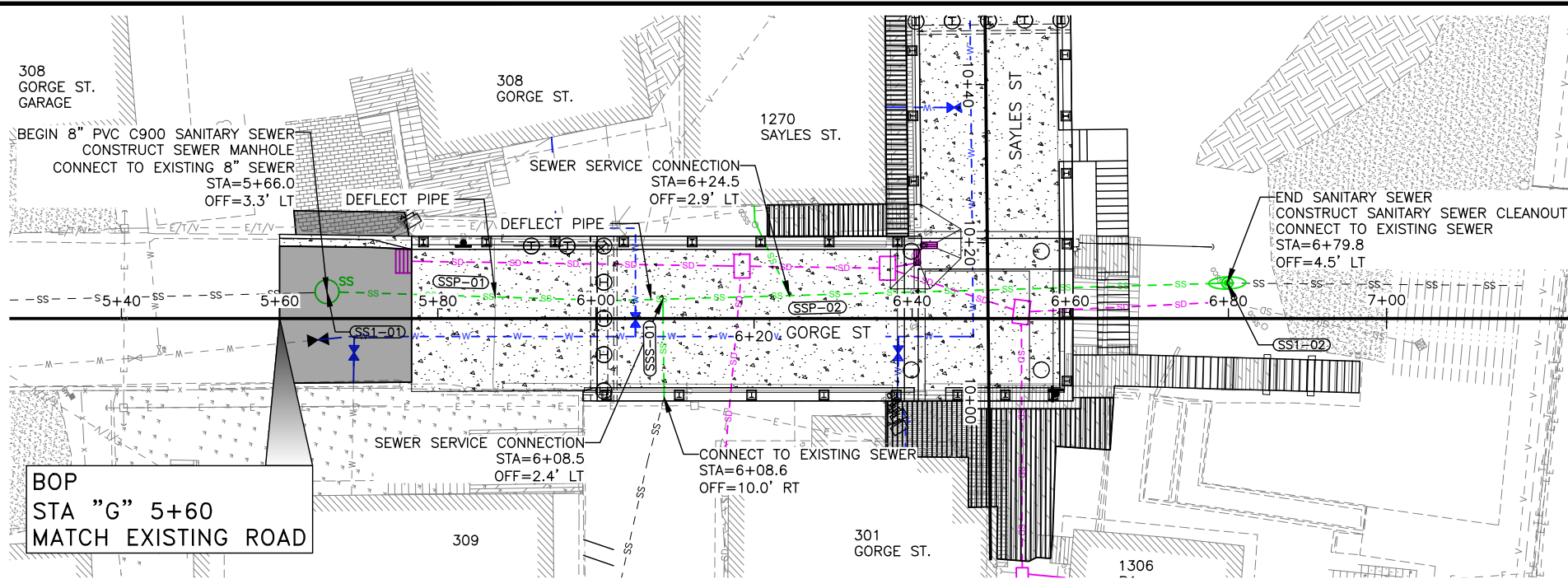
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801
 (907) 465-1763

KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS

SAYLES STREET WATER
 PLAN & PROFILE

FILE: Z:\projects\2023-09-18\23-0918\23-0918-Gorge St Viaduct - Design - Plan and Profile.dwg DATE: 9/18/23 LAYOUT: U3 DESIGNED: JMH CHECKED: JLO DRAFTED: AJB, JTH

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2023	U3	U14

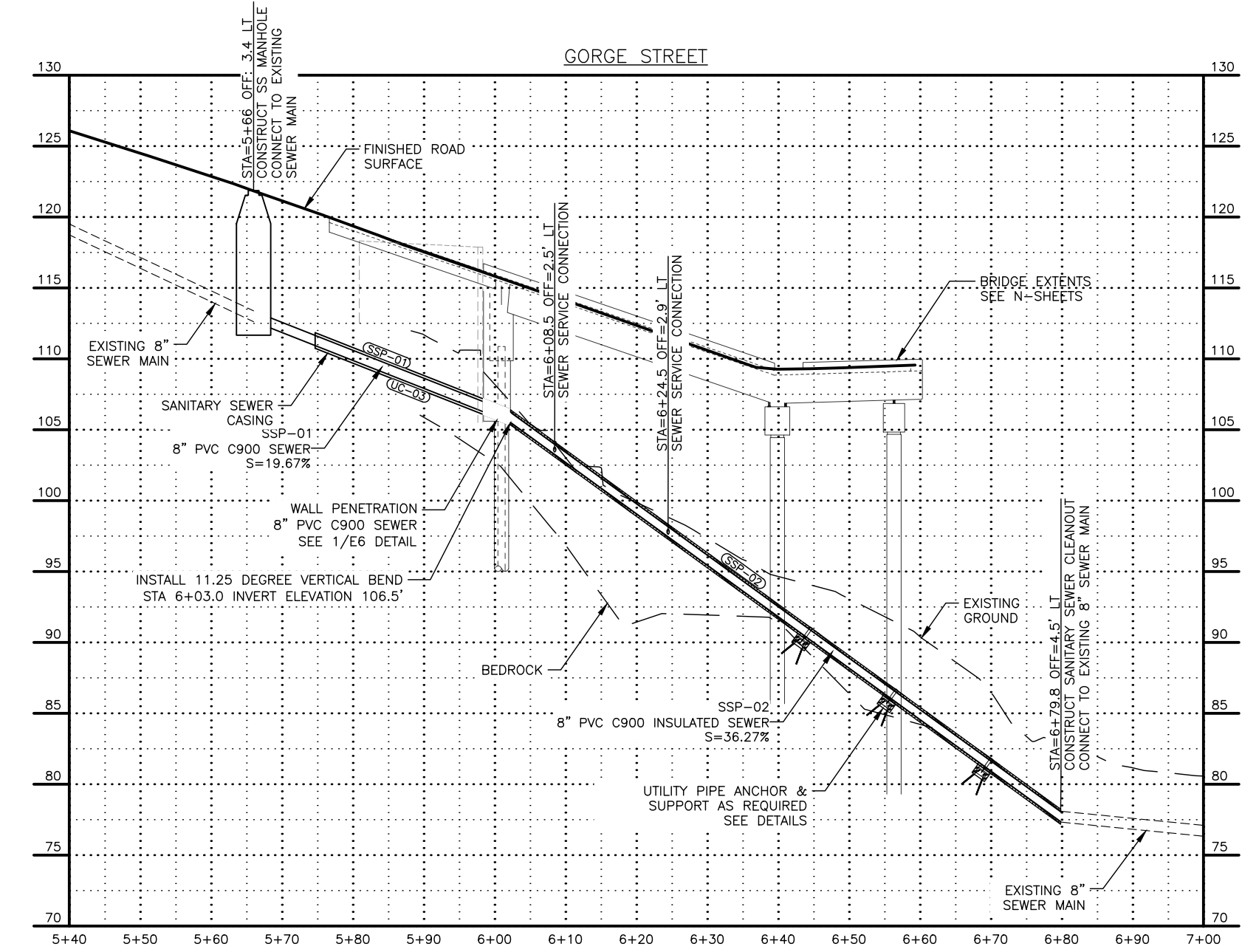


DEMOLITION & TEMPORARY SERVICE NOTES:

1. EXISTING SEWER MAIN AND APPURTENANCES TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. SEE DEMOLITION PLAN.
2. EXISTING UTILITY LOCATIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK.
3. WATER, SANITARY SEWER, AND STORM DRAIN REMOVAL IS PAID UNDER BID ITEM 202.0001.0000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
4. SEE SUMMARY TABLE IN D SHEETS FOR BID ITEM 202.0001.0000 FOR ADDITIONAL INFORMATION.
5. PROVIDE TEMPORARY SERVICES PRIOR TO DEMOLITION OF UTILITIES

CONSTRUCTION NOTES:

1. CITY OF KETCHIKAN AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF SEWER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SEWER SERVICE TO EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR SHALL HAVE A TEMPORARY SEWER SERVICE PLAN REVIEWS AND APPROVED BY ADEC.
2. REPLACE ALL SEWER SERVICES TO THE EDGE OF RIGHT-OF-WAY OR TO RESIDENCE AS SHOWN.
3. REPLACE ALL SEWER SERVICE CLEAN OUTS.
4. BURIED SEWER MAINS SHALL HAVE 4' MINIMUM COVER. WHERE MINIMUM COVER IS NOT POSSIBLE, INSTALL 4" RIGID INSULATION AS REQUIRED.
5. TRACE WIRE SHALL BE INSTALLED 12" ABOVE BURIED SEWER MAINS. USE 8 GAGE WIRE ABOVE MAINS.
6. ALL SEWER MAIN AND SERVICE TRENCH, BACKFILL, AND BEDDING SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.



PIPE SADDLES		
PIPE NO.	STATION [FT]	OFFSET [FT]
SSP-02	6+42	3 LT
SSP-02	6+54	4 LT
SSP-02	6+67	4 LT

PLANS DEVELOPED BY:
 R&M Consultants, Inc.
 9101 Vanguard Drive
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 907 522-1707 voice
 907 522-3404 fax
 www.rmconsult.com
 Cert. of Auth. No. AECC111



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
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KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

GORGE STREET SANITARY SEWER PLAN AND PROFILE

FILE S&G-U10 prefSE 230830.dwg
 DATE 9/18/23 LAYOUT U5
 DESIGNED
 CHECKED
 DRAFTED AB

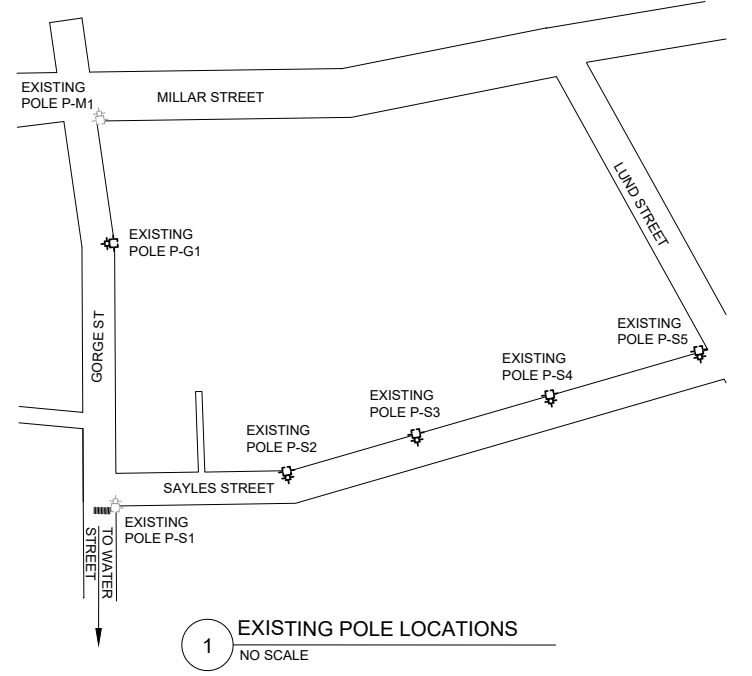
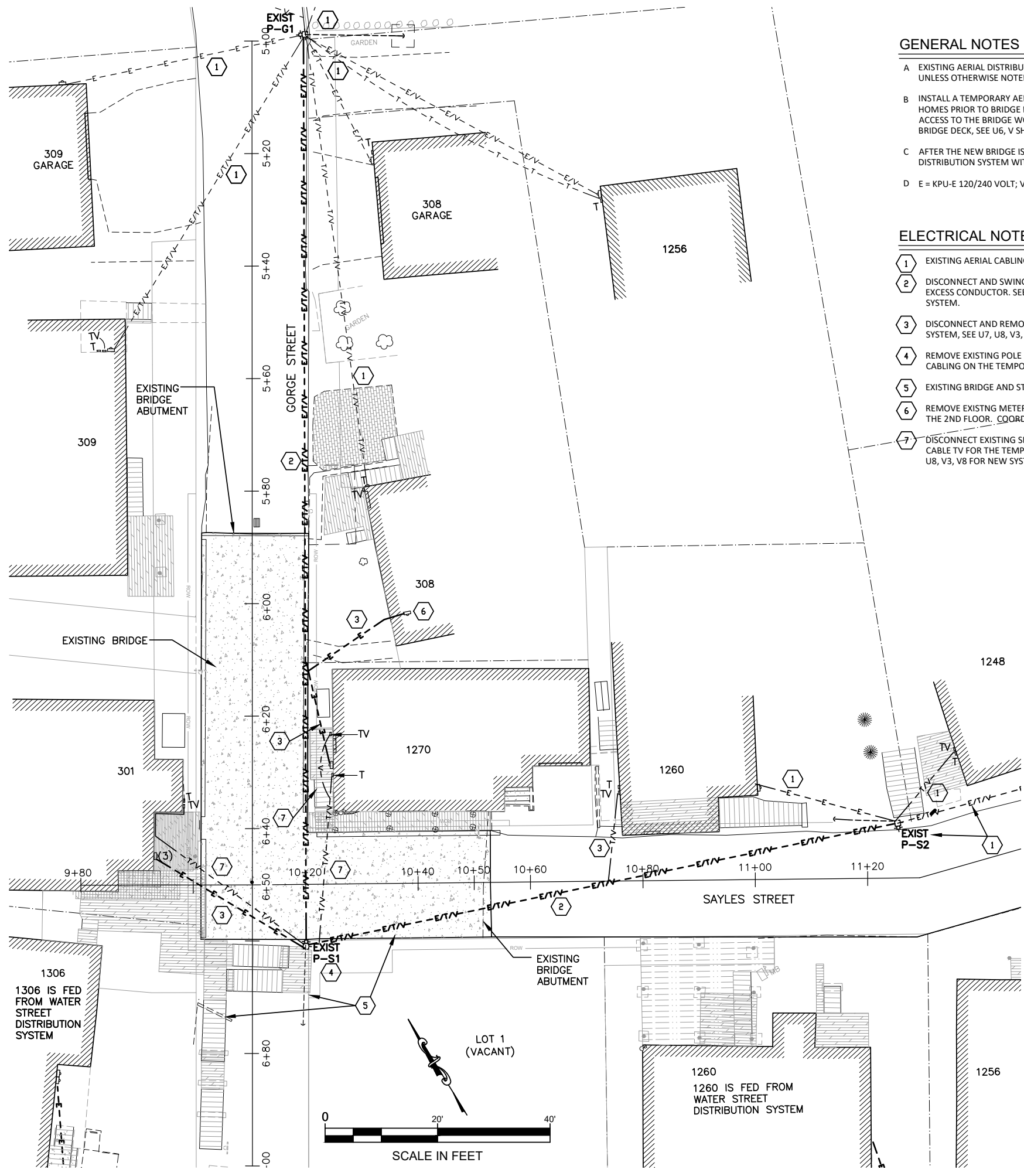
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	U5	U14

GENERAL NOTES

- A EXISTING AERIAL DISTRIBUTION SYSTEM AND SERVICE DROPS TO THE HOMES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B INSTALL A TEMPORARY AERIAL POWER DISTRIBUTION SYSTEM WITH SERVICE DROPS TO THE HOMES PRIOR TO BRIDGE DEMOLITION. THE TEMPORARY SYSTEM IS TO ALLOW COMPLETE ACCESS TO THE BRIDGE WORK AREA WITH NO OVERHEAD LINES CROSSING THE EXISTING BRIDGE DECK, SEE U6, V SHEETS.
- C AFTER THE NEW BRIDGE IS INSTALLED, INSTALL THE PERMANENT AERIAL POWER DISTRIBUTION SYSTEM WITH AERIAL DROPS TO THE HOMES, SEE U7, V SHEETS.
- D E = KPU-E 120/240 VOLT; V = CABLE TV -COAXIAL CABLE, T = KPU-T FIBER OPTIC

ELECTRICAL NOTES

- 1 EXISTING AERIAL CABLING TO REMAIN
- 2 DISCONNECT AND SWING EXISTING AERIAL DISTRIBUTION TO TEMPORARY POLE. REMOVE EXCESS CONDUCTOR. SEE U6, U8, V2 FOR TEMPORARY SYSTEM, SEE U7, U8, V3 FOR NEW SYSTEM.
- 3 DISCONNECT AND REMOVE EXISTING SERVICE DROP. SEE U6, U8, V2, V7 FOR TEMPORARY SYSTEM, SEE U7, U8, V3, V8 FOR NEW SYSTEM.
- 4 REMOVE EXISTING POLE P-S1. INSTALL NEW TEMPORARY POLE P-S1-T AND LAND EXISTING CABLING ON THE TEMPORARY POLE, SEE U6, U8, V2, V7
- 5 EXISTING BRIDGE AND STAIRS TO BE DEMOLISHED, SEE F AND N SHEETS.
- 6 REMOVE EXISTING METER, INSTALL NEW SERVICE, SEE U6. METER IS LOCATED INDOORS ON THE 2ND FLOOR. COORDINATE WITH THE OWNER TO GAIN ACCESS.
- 7 DISCONNECT EXISTING SERVICE DROP. HOME DOES NOT REQUIRE TELEPHONE OR CABLE TV FOR THE TEMPORARY SYSTEM. SEE U6, U8, V2 FOR TEMPORARY SYSTEM, SEE U7, U8, V3, V8 FOR NEW SYSTEM.



SYMBOLS AND LEGEND

	OPTICAL NETWORK TERMINAL, ONT		CABLE TELEVISION LINE -GCI
	NETWORK INTERFACE DEVICE, NID		120/240V - KPU ELECTRIC
	T = TELEPHONE, TV = CABLE TV		TELEPHONE - KPU TELECOMM
	COMBINATION METER MAIN / METER PACK/METER		WATER LINE
	DISCONNECT, CIRCUIT BREAKER TYPE		HEAT TAPE CONNECTION
	PANELBOARD		JUNCTION BOX
	EXISTING POWER POLE / POWER POLE W/LIGHT		RECEPTACLE (SEE 687 FOR NEMA TYPE)
	NEW WOOD POWER POLE, 50'		PILOT LIGHT SWITCH
	GUY		GROUNDING ELECTRODE CONDUCTOR
	LED STREET LIGHT		



PLANS DEVELOPED BY:
 NELSON ELECTRICAL
 ENGINEERING
 209 Bunchberry Road
 Ketchikan, Alaska 99901
 907-617-7761



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**KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS**

**EXISTING ELECTRICAL
 SITE PLAN**

FILE S&G-U10 prePSE 230830.dwg DATE 9/18/23 LAYOUT U6 DESIGNED CHECKED DRAFTED AB

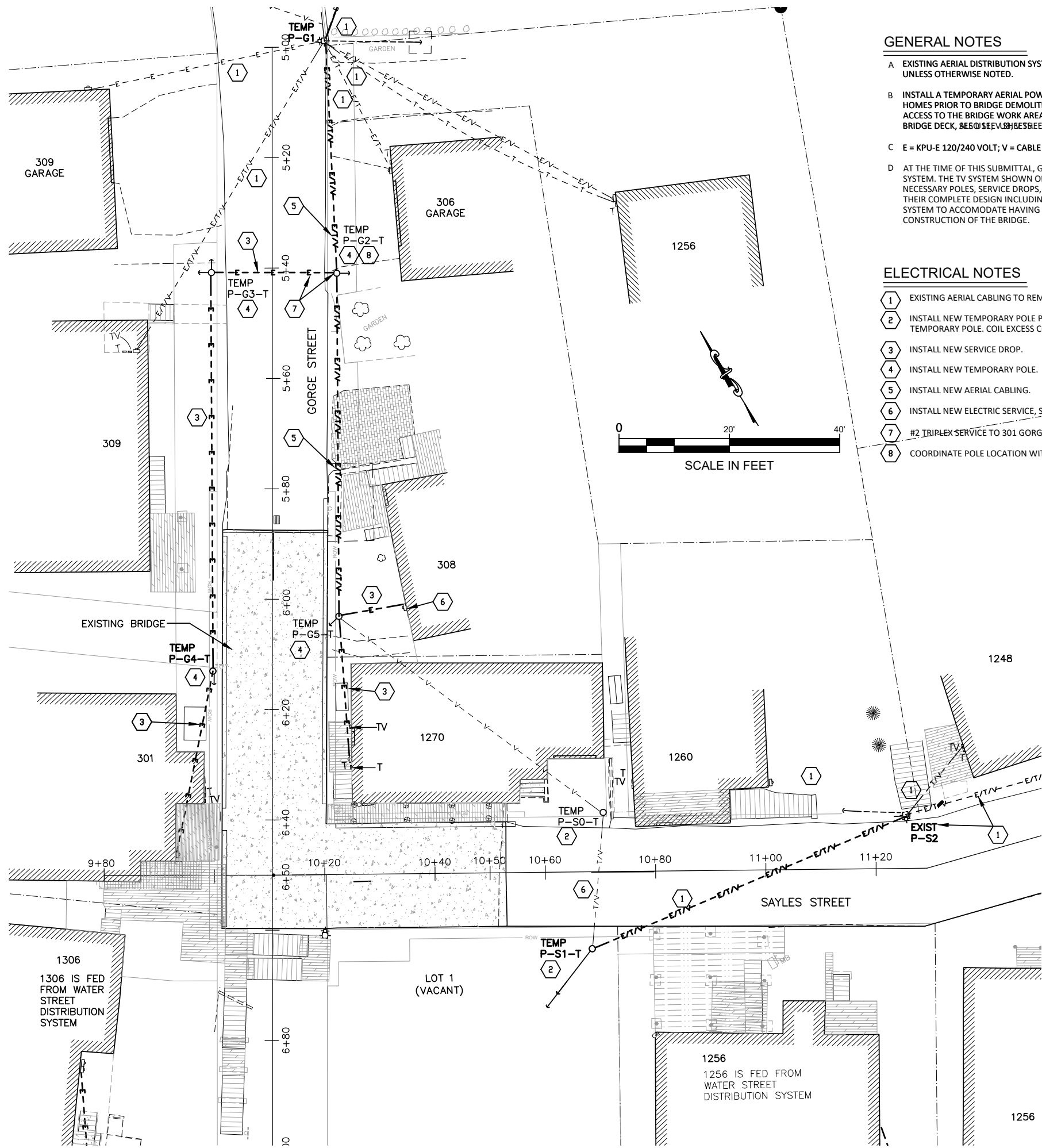
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2022	U6	U14

GENERAL NOTES

- A EXISTING AERIAL DISTRIBUTION SYSTEM AND SERVICE DROPS TO THE HOMES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B INSTALL A TEMPORARY AERIAL POWER DISTRIBUTION SYSTEM WITH SERVICE DROPS TO THE HOMES PRIOR TO BRIDGE DEMOLITION. THE TEMPORARY SYSTEM IS TO ALLOW COMPLETE ACCESS TO THE BRIDGE WORK AREA WITH NO OVERHEAD LINES CROSSING THE EXISTING BRIDGE DECK, SEE U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U34, U35, U36, U37, U38, U39, U40, U41, U42, U43, U44, U45, U46, U47, U48, U49, U50, U51, U52, U53, U54, U55, U56, U57, U58, U59, U60, U61, U62, U63, U64, U65, U66, U67, U68, U69, U70, U71, U72, U73, U74, U75, U76, U77, U78, U79, U80, U81, U82, U83, U84, U85, U86, U87, U88, U89, U90, U91, U92, U93, U94, U95, U96, U97, U98, U99, U100.
- C E = KPU-E 120/240 VOLT; V = CABLE TV -COAXIAL CABLE, T = KPU-T FIBER OPTIC
- D AT THE TIME OF THIS SUBMITTAL, GCI HAS NOT STARTED THEIR DESIGN FOR THE TEMPORARY SYSTEM. THE TV SYSTEM SHOWN ON THIS DRAWING IS CONCEPTUAL SHOWING ALL THE NECESSARY POLES, SERVICE DROPS, ETC. FOR A TEMPORARY SYSTEM. GCI SHALL PROVIDE THEIR COMPLETE DESIGN INCLUDING MODIFICATIONS TO THEIR OVERHEAD DISTRIBUTION SYSTEM TO ACCOMMODATE HAVING NO WIRING OVER THE BRIDGE WORK AREA DURING CONSTRUCTION OF THE BRIDGE.

ELECTRICAL NOTES

- 1 EXISTING AERIAL CABLING TO REMAIN
- 2 INSTALL NEW TEMPORARY POLE P-S1-T AND LAND EXISTING AERIAL CABLING ON THE TEMPORARY POLE. COIL EXCESS CONDUCTOR.
- 3 INSTALL NEW SERVICE DROP.
- 4 INSTALL NEW TEMPORARY POLE.
- 5 INSTALL NEW AERIAL CABLING.
- 6 INSTALL NEW ELECTRIC SERVICE, SEE U11
- 7 #2 TRIPLEX SERVICE TO 301 GORGE - SPLICE INTO #4/0 TRIPLEX DISTRIBUTION
- 8 COORDINATE POLE LOCATION WITH EXISTING WATER SERVICE LINE, SEE U1.



PLANS DEVELOPED BY:
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**KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS**

**ELECTRICAL SITE PLAN
 TEMPORARY WORK**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	U7	U14

ELECTRICAL NOTES

- A EXISTING AERIAL DISTRIBUTION SYSTEM AND SERVICE DROPS TO THE HOMES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B AFTER THE NEW BRIDGE IS INSTALLED, INSTALL THE PERMANENT AERIAL POWER DISTRIBUTION SYSTEM WITH AERIAL DROPS TO THE HOMES, SEE U8, V SHEETS.
- C AFTER THE NEW PERMANENT AERIAL SYSTEM IS INSTALLED, DISCONNECT AND REMOVE THE TEMPORARY AERIAL POWER DISTRIBUTION SYSTEM SHOWN ON U6.
- D E = KPU-E 120/240 VOLT, V = CABLE TV -COAXIAL CABLE, T = KPU-T FIBER OPTIC

ELECTRICAL NOTES

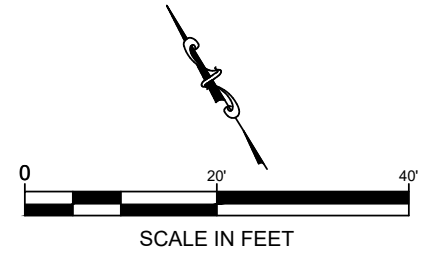
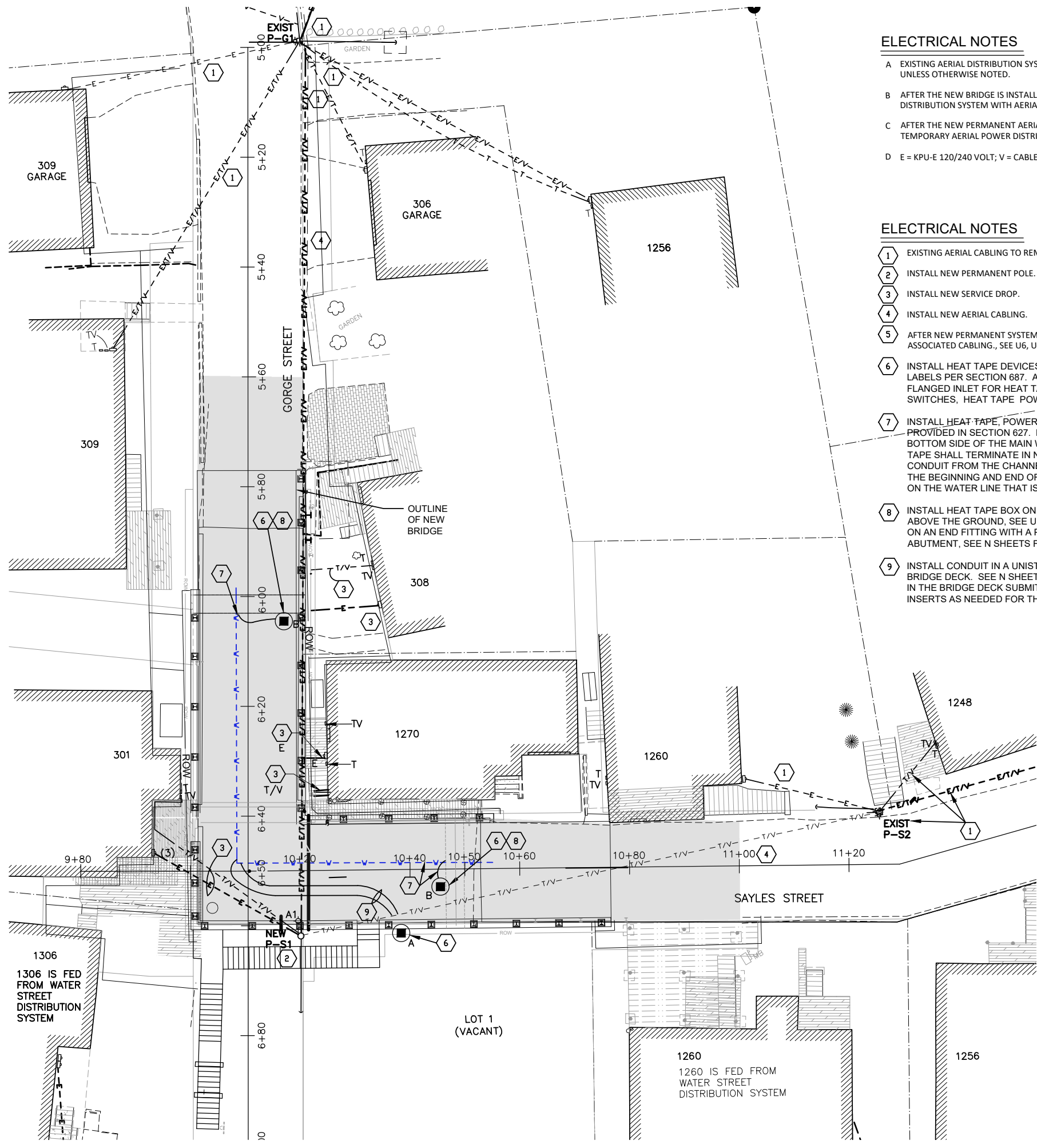
- 1 EXISTING AERIAL CABLING TO REMAIN
- 2 INSTALL NEW PERMANENT POLE.
- 3 INSTALL NEW SERVICE DROP.
- 4 INSTALL NEW AERIAL CABLING.
- 5 AFTER NEW PERMANENT SYSTEM IS INSTALLED REMOVE TEMPORARY POLES AND ASSOCIATED CABLING., SEE U6, U11 AND V2.
- 6 INSTALL HEAT TAPE DEVICES IN NEMA 4X BOX WITH CIRCUIT DIAGRAM AND LABELS PER SECTION 687. AT THE BEGINNING OF HEAT TAPE RUN: INSTALL FLANGED INLET FOR HEAT TAPE CONNECTION TO CITY GENERATOR, SWITCHES, HEAT TAPE POWER CONNECTIONS, SEE U10.
- 7 INSTALL HEAT TAPE, POWER CONNECTION & END FITTING - EQUIPMENT IS PROVIDED IN SECTION 627. PULL HEAT TAPE IN CHANNEL LOCATED ON THE BOTTOM SIDE OF THE MAIN WATER LINE ARCTIC PIPE. BOTH ENDS OF THE TAPE SHALL TERMINATE IN NEMA 4X BOXES. INSTALL THE TAPE IN HDPE CONDUIT FROM THE CHANNEL ON THE WATER LINE TO THE BOXES LOCATED AT THE BEGINNING AND END OF THE RUN, SEE U10. THE HEAT TAPE IS INSTALLED ON THE WATER LINE THAT IS UNDER THE BRIDGE, EXPOSED TO THE AIR.
- 8 INSTALL HEAT TAPE BOX ON ABUTMENT STRUCTURE WITH THE CENTER BOX 4' ABOVE THE GROUND, SEE U10. THE END OF THE HEAT TAPE SHALL TERMINATE ON AN END FITTING WITH A PILOT LIGHT. MOUNT BOX USING INSERTS IN THE ABUTMENT, SEE N SHEETS FOR INSERT LAYOUT.
- 9 INSTALL CONDUIT IN A UNISTRUT PIPE RACK W/ ALL-THREAD SUSPENDED FROM BRIDGE DECK. SEE N SHEETS FOR INSERT LAYOUT. DURING SUBMITTAL PHASE IN THE BRIDGE DECK SUBMITTAL, THE CONTRACTOR SHALL LOCATE THE INSERTS AS NEEDED FOR THE ACTUAL EQUIPMENT LAYOUT

LIGHTING FIXTURE SCHEDULE:

TYPE	LAMPS	MOUNTING	DESCRIPTION	MANUFACTURER
A1	120-LED 8000K	WOOD POLE ROADWAY ARM	LED ROADWAY FIXTURE WITH 6, TYPE II DISTRIBUTION, FULL CUTOFF, WET LABEL, GASKETED, TGIC POWDER COAT SILVER FINISH, FLAT GLASS LENS, DOUBLE FUSES & HOLDER, TILT DOWN 5°, IP68 ENCLOSURE RATING, 4G VIBRATION, TEST, 240 VOLT DRIVER, CUSTOM FAB HOUSE SIDE SHIELDS, 130MPH W/ 30% GUST, INTEGRAL PHOTOCCELL	BETALED STR LWY SERIES

NOTES:

- 1. MANUFACTURER'S LISTED ARE TO ESTABLISH QUALITY. PRIOR TO ORDERING THE FIXTURES THE OWNER AND ENGINEER SHALL SELECT THE TYPES OF FIXTURES, MOUNTING TYPES/ACCESSORIES, COLORS AND FINISHES. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 2. PROVIDE LAMPS AND ALL MOUNTING AND OPERATING ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL FIXTURES SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR INSTALLED FROM ITS JBOX TO THE FIXTURE GROUND. FIXTURES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- 3. FIXTURE AND POLE SHALL HAVE FINISH SUITABLE FOR A MARINE ENVIRONMENT AND THE FINISH SHALL HAVE A 10 YEAR WARRANTY.
- 4. LED FIXTURE AND DRIVER SHALL BE SUITABLE FOR OUTDOOR, MARINE INSTALLATION AND RATED FOR -20F STARTING, UNDERWRITERS' LABORATORIES LISTING. BALLASTS SHALL BE SUITABLE FOR OUTDOOR INSTALLATION, HIGH POWER FACTOR, CONSTANT WATTAGE AUTOTRANSFORMER TYPE BALLAST AND RATED FOR -20F STARTING, BEAR THE SEAL OF THE CERTIFIED BALLAST MANUFACTURERS AND UNDERWRITERS' LABORATORIES, INC. IN ACCORDANCE WITH UL 1028, CLASS C SOUND RATING.
- 5. LUMINAIRE SHALL BE APPROVED BY DARK SKY ASSOCIATION OR SIMILAR ORGANIZATION.

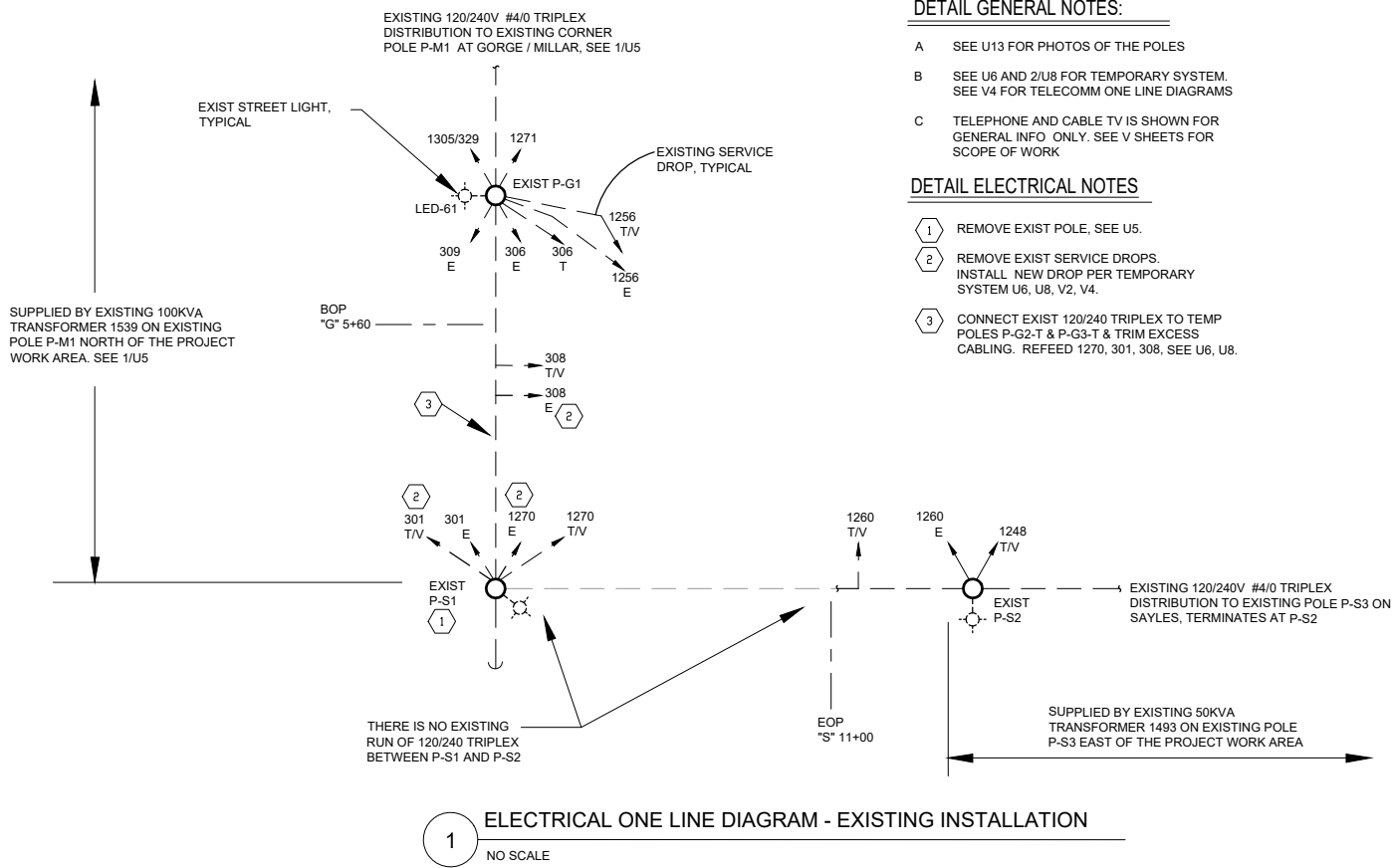


PLANS DEVELOPED BY:
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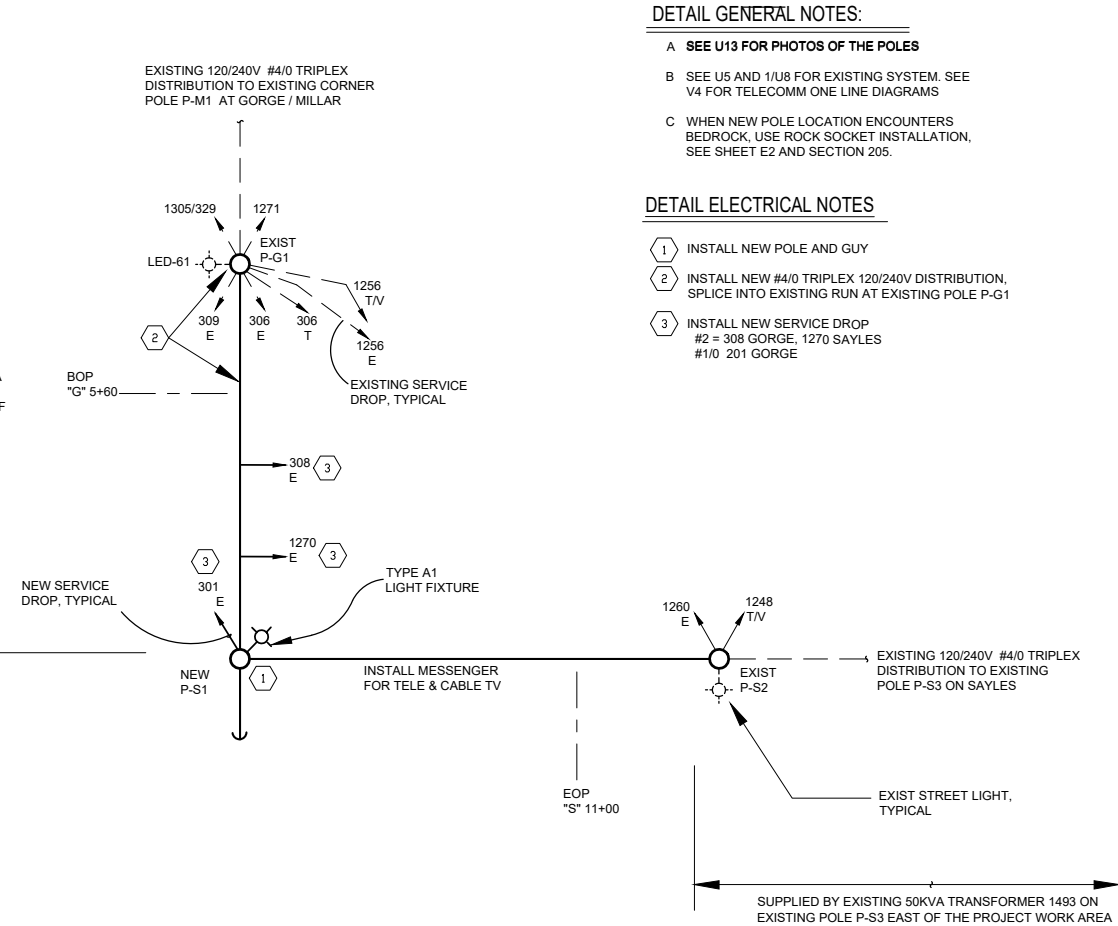


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION
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6860 GLACIER HIGHWAY, JUNEAU, AK 99801
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**KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS**
**ELECTRICAL SITE PLAN
PERMANENT WORK**

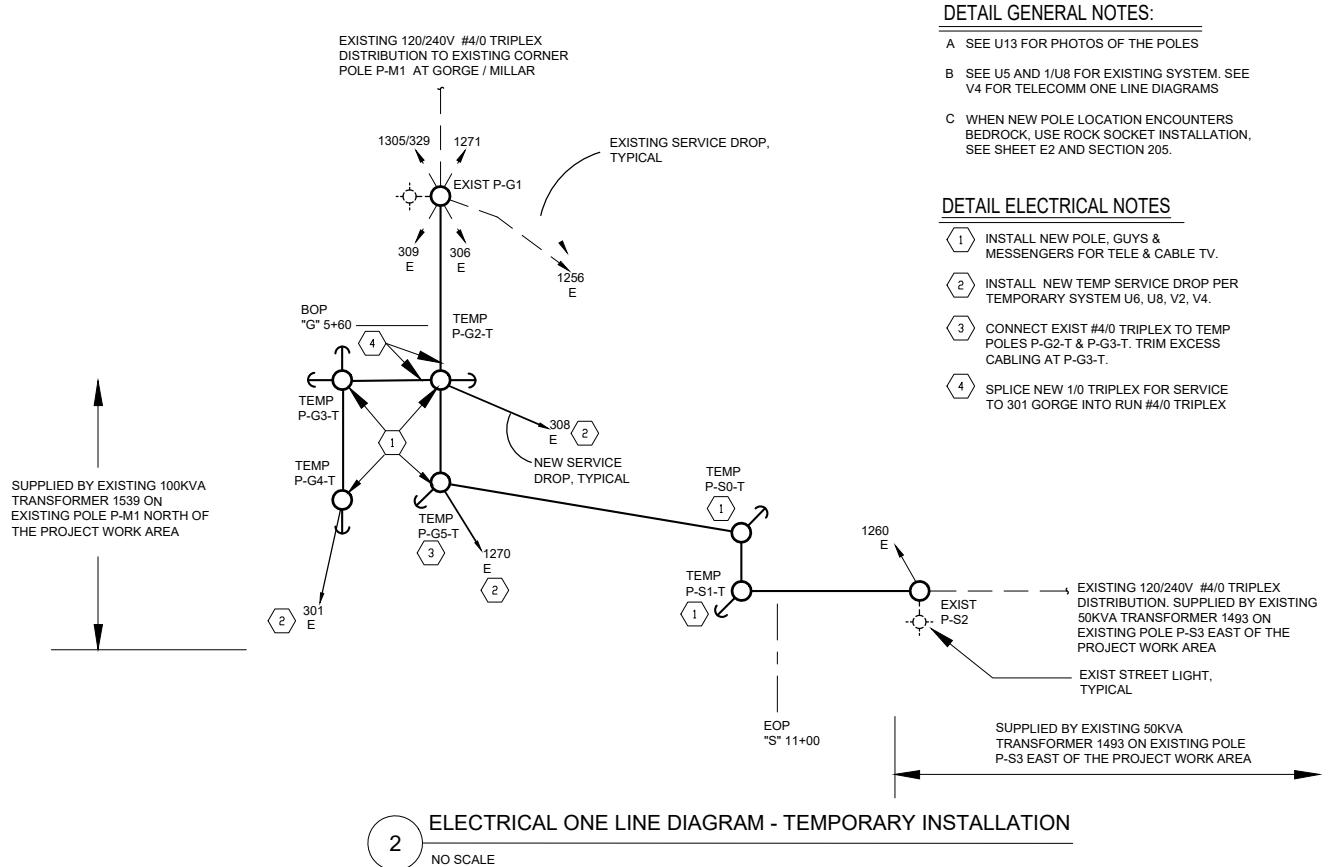
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	U8	U14



- DETAIL GENERAL NOTES:**
- A SEE U13 FOR PHOTOS OF THE POLES
 - B SEE U6 AND 2/U8 FOR TEMPORARY SYSTEM. SEE V4 FOR TELECOMM ONE LINE DIAGRAMS
 - C TELEPHONE AND CABLE TV IS SHOWN FOR GENERAL INFO ONLY. SEE V SHEETS FOR SCOPE OF WORK
- DETAIL ELECTRICAL NOTES**
- 1 REMOVE EXIST POLE. SEE U5.
 - 2 REMOVE EXIST SERVICE DROPS. INSTALL NEW DROP PER TEMPORARY SYSTEM U6, U8, V2, V4.
 - 3 CONNECT EXIST 120/240 TRIPLEX TO TEMP POLES P-G2-T & P-G3-T & TRIM EXCESS CABLING. REFEED 1270, 301, 308, SEE U6, U8.



- DETAIL GENERAL NOTES:**
- A SEE U13 FOR PHOTOS OF THE POLES
 - B SEE U5 AND 1/U8 FOR EXISTING SYSTEM. SEE V4 FOR TELECOMM ONE LINE DIAGRAMS
 - C WHEN NEW POLE LOCATION ENCOUNTERS BEDROCK, USE ROCK SOCKET INSTALLATION, SEE SHEET E2 AND SECTION 205.
- DETAIL ELECTRICAL NOTES**
- 1 INSTALL NEW POLE AND GUY
 - 2 INSTALL NEW #4/0 TRIPLEX 120/240V DISTRIBUTION. SPLICE INTO EXISTING RUN AT EXISTING POLE P-G1
 - 3 INSTALL NEW SERVICE DROP #2 = 308 GORGE, 1270 SAYLES #1/0 201 GORGE



- DETAIL GENERAL NOTES:**
- A SEE U13 FOR PHOTOS OF THE POLES
 - B SEE U5 AND 1/U8 FOR EXISTING SYSTEM. SEE V4 FOR TELECOMM ONE LINE DIAGRAMS
 - C WHEN NEW POLE LOCATION ENCOUNTERS BEDROCK, USE ROCK SOCKET INSTALLATION, SEE SHEET E2 AND SECTION 205.
- DETAIL ELECTRICAL NOTES**
- 1 INSTALL NEW POLE, GUYS & MESSENGERS FOR TELE & CABLE TV.
 - 2 INSTALL NEW TEMP SERVICE DROP PER TEMPORARY SYSTEM U6, U8, V2, V4.
 - 3 CONNECT EXIST #4/0 TRIPLEX TO TEMP POLES P-G2-T & P-G3-T. TRIM EXCESS CABLING AT P-G3-T.
 - 4 SPLICE NEW 1/0 TRIPLEX FOR SERVICE TO 301 GORGE INTO RUN #4/0 TRIPLEX

3 ELECTRICAL ONE LINE DIAGRAM - PERMANENT INSTALLATION
NO SCALE

2 ELECTRICAL ONE LINE DIAGRAM - TEMPORARY INSTALLATION
NO SCALE

PLANS DEVELOPED BY:
NELSON ELECTRICAL ENGINEERING
209 Bunchberry Road
Ketchikan, Alaska 99901
907-617-7761

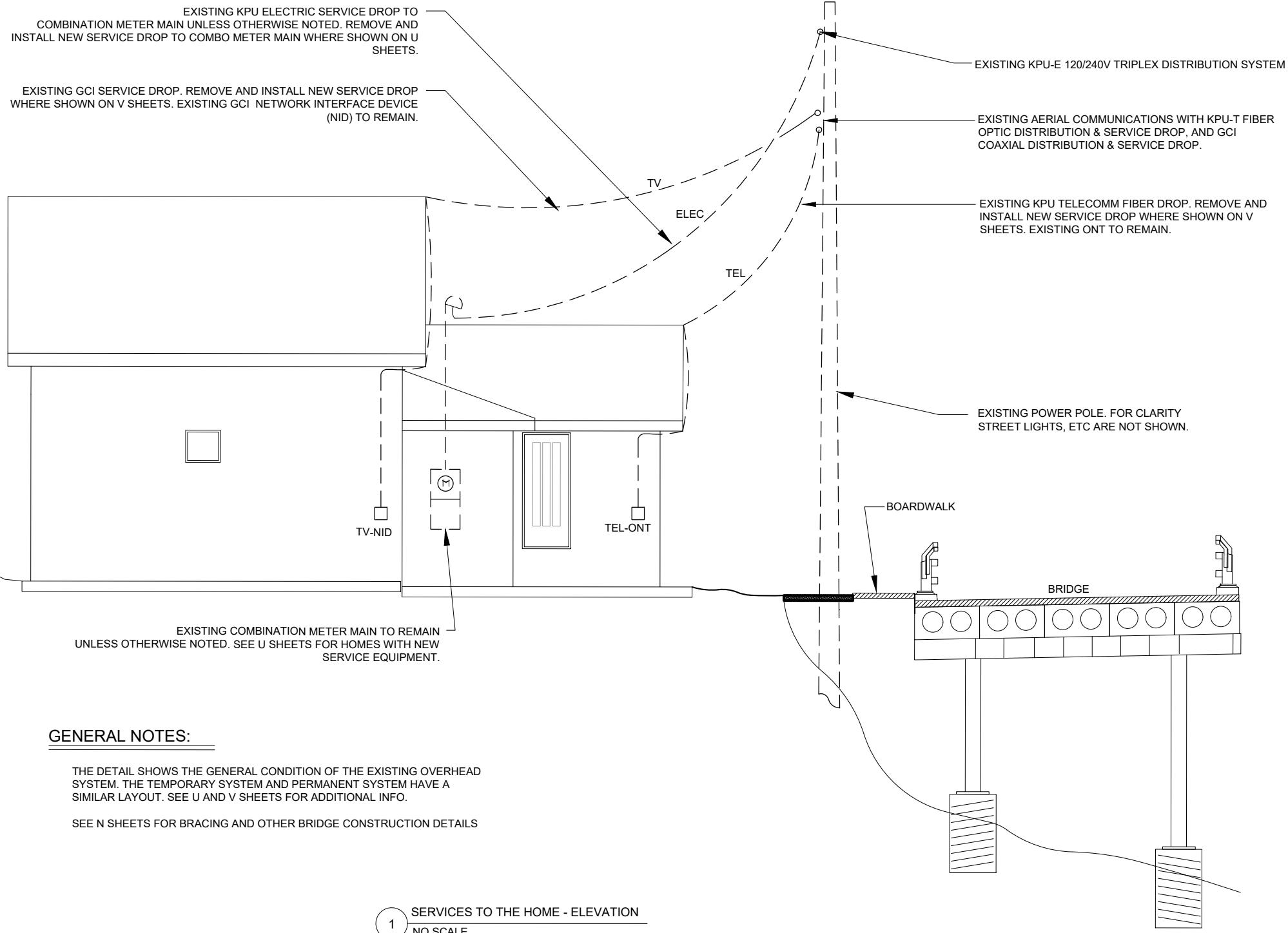


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KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS

ELECTRICAL ONE LINE DIAGRAMS

FILE S&G-U10 PrePSE 230830.dwg DATE 9/18/23 LAYOUT U9 ELEV DESIGNED CHECKED DRAFTED AB

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2022	U9	U14



GENERAL NOTES:

THE DETAIL SHOWS THE GENERAL CONDITION OF THE EXISTING OVERHEAD SYSTEM. THE TEMPORARY SYSTEM AND PERMANENT SYSTEM HAVE A SIMILAR LAYOUT. SEE U AND V SHEETS FOR ADDITIONAL INFO.
SEE N SHEETS FOR BRACING AND OTHER BRIDGE CONSTRUCTION DETAILS

1 SERVICES TO THE HOME - ELEVATION
NO SCALE

PLANS DEVELOPED BY:
NELSON ELECTRICAL
ENGINEERING.
209 Bunchberry Road
Ketchikan, Alaska 99901
907-617-7761

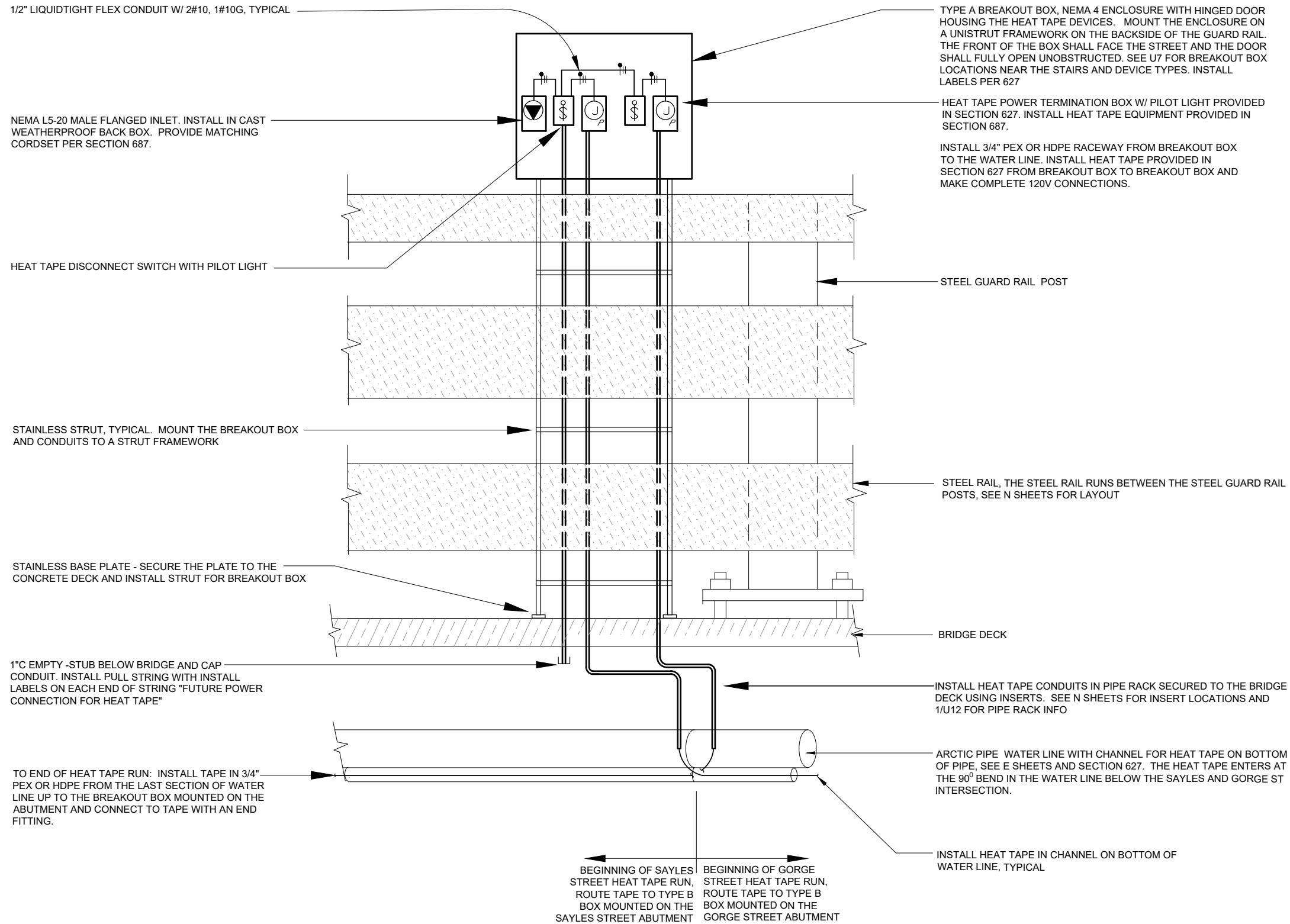


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AND PUBLIC FACILITIES
6860 GLACIER HIGHWAY, JUNEAU, AK 99801
(907) 465-1763
**KTN: SAYLES/GORGE ST. VIADUCT
(1841) IMPROVEMENTS**

ELECTRICAL
DETAILS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	U10	U14

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DETAIL NOTES:

- A HEAT TAPE, POWER CONNECTION AND END FITTINGS ARE PROVIDED IN SECTION 627.
- B THE START AND END OF EACH RUN OF HEAT TAPE SHALL BE LOCATED IN A BREAKOUT BOX MOUNTED ON THE GUARD RAIL. THE HEAT TAPE CABLE SHALL BE INSTALLED COMPLETE FROM THE POWER CONNECTION FITTING TO THE END FITTING. INSTALL HEAT TAPE IN CHANNEL LOCATED ON THE BOTTOM OF INSULATED ARCTIC WATER PIPE, SEE SECTION 627.
- C FROM THE WATER LINE TO THE BREAKOUT BOX INSTALL THE HEAT TAPE IN 3/4" PEX OR HDPE RACEWAY. ROUTE THE RACEWAY IN THE CONDUIT RACK WHEREVER POSSIBLE AND FROM UNISTRUT SUPPORTS LOCATED BETWEEN THE DECK PANELS.
- D LABEL THE RUN OF HEAT TAPE CABLE AND PROVIDE CIRCUIT DIAGRAM PER SECTION 687. LABEL COVER OF BOX: WATER LINE HEAT TAPE, PROVIDE OTHER LABELS PER SECTION 687
- E SEE N SHEETS FOR GUARD RAIL DETAILS
- F COORDINATE LOCATION OF THE BREAKOUT BOX AND INSTALLATION METHODS WITH THE ENGINEER PRIOR TO COMMENCING WITH THE ROUGH-IN WORK
- G IN THE SUBMITTAL PHASE, COORDINATE THE LOCATION OF THE INSERTS IN THE DECK WITH THE BRIDGE DECK MANUFACTURER.

1
HEAT TAPE BREAKOUT BOX DETAIL
 NO SCALE LOCATION NEAR STAIRS

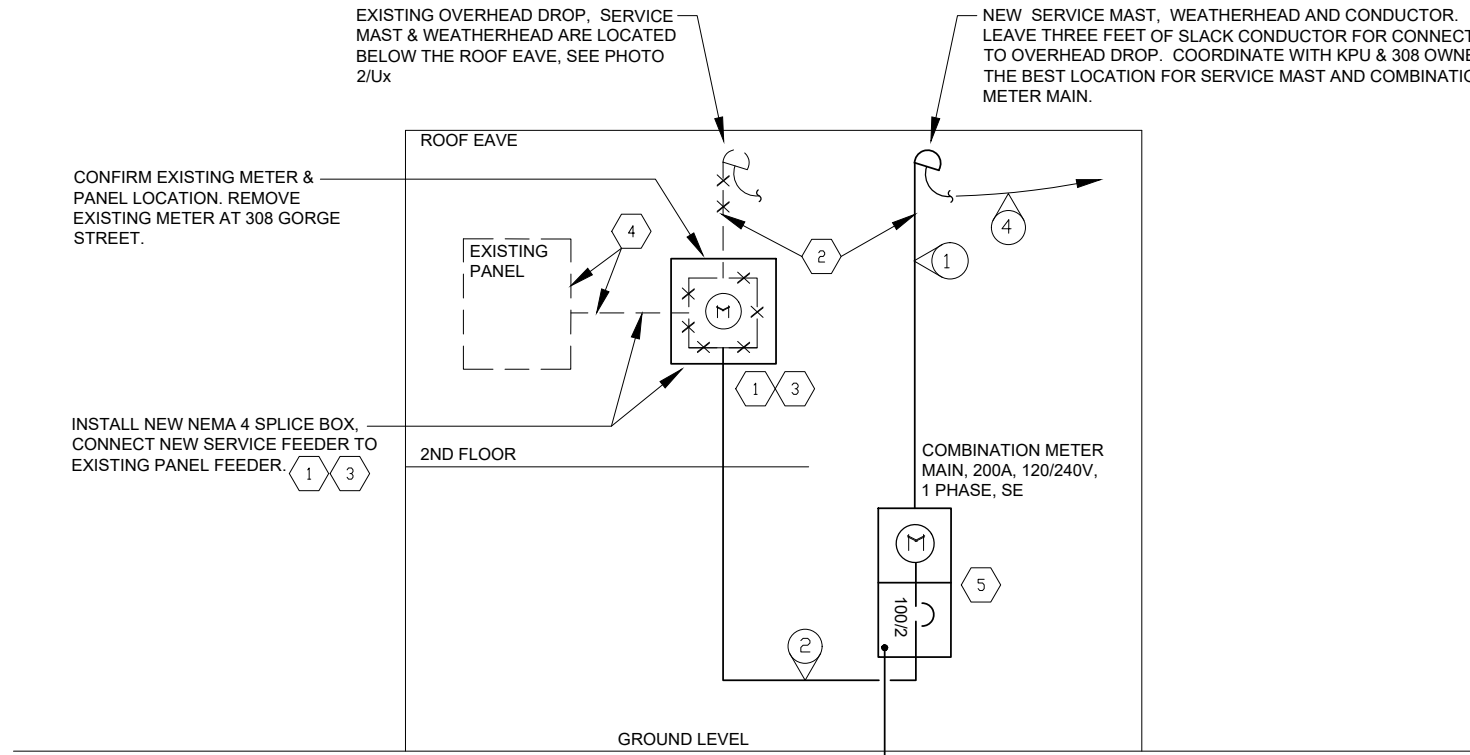
PLANS DEVELOPED BY:
 NELSON ELECTRICAL
 ENGINEERING
 209 Bunchberry Road
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 907-617-7761



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 DETAILS**

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GROUNDING ELECTRODE SYSTEM:
 - 3/4" DIA X 10' DRIVEN COPPER GROUND ROD
 - EXISTING WATER PIPING WITHIN 5 FEET OF ENTERING HOUSE
 - RECONNECT EXISTING GEC AT FOOTING IF ONE EXISTS.

FEEDER NUMBER	CONDUIT AND WIRE SIZE
1	2" C W/ 3 #2
2	2" C W/ 3 #2, 1#8G
3	#4 BARE CU GEC
4	#2 TRIPLEX DROP

NEC LOAD CALC:
 RECONNECT EXISTING ELECTRICAL SERVICE WHICH IS 100A, 120/240V, SINGLE PHASE. THE SERVICE LOAD HAS NOT CHANGED. THE UTILITY OVERHEAD SERVICE DROP IS SIZED PER KPU ELECTRIC STANDARD SERVICE CONDUCTOR SIZE.

1 SERVICE ONE LINE DIAGRAM -308 GORGE STREET
 NO SCALE

ELECTRICAL NOTES:

- 1 REMOVE THE EXISTING SURFACE MOUNTED METER CAN. INSTALL NEW NEMA 4 HINGED SPLICE BOX SIZED TO COVER THE EXISTING OPENING AND CONNECT THE NEW PANEL FEEDER TO THE EXISTING PANEL FEEDER. COORDINATE WITH THE OWNER FOR ACCESS TO THE ELECTRICAL EQUIPMENT IN THE HOUSE.
- 2 EXIST SERVICE MAST LOCATED BELOW THE 2ND FLOOR ROOF EAVE. REMOVE EXISTING SERVICE MAST AND SERVICE CONDUCTOR. INSTALL NEW RISER MAST, WEATHERHEAD, AND CONDUCTORS -CONNECT TO NEW COMBINATION METER MAIN. PATCH AND PAINT RISER CONDUIT & HOUSE SIDING TO MATCH EXISTING. COORDINATE WITH KPU TO DISCONNECT AND RECONNECT THEIR TRIPLEX OVERHEAD DROP.
- 3 SIZE THE NEW BOX TO BE AT LEAST THE NEXT NOMINAL SIZED BOX LARGER THAN THE EXISTING METER CAN(S)
- 4 FIELD CONFIRM LOCATION OF THE EXISTING PANEL WITH THE OWNER AND THAT THE EXISTING FEEDER CONDUIT AND CONDUCTORS ARE SUITABLE FOR CONNECTION TO THE NEW FEEDER CONDUCTORS AND MEETS NEC REQUIREMENTS. IF THE INSTALLATION IS NOT SUITABLE OR DOES NOT MEET CODE, REMOVE CONDUIT AND INSTALL NEW -THE INSTALLATION METHODS AND CONDUIT ROUTE SHALL BE APPROVED BY THE OWNER AND THE DEPARTMENT PRIOR TO ROUGH-IN WORK. PATCH AND PAINT ALL SURFACES TO MATCH EXISTING.

GENERAL NOTES:

- A SERVICE WORK SHALL COMPLY WITH THE LATEST KPU INSTALLATION STANDARDS. PRIOR TO INSTALLATION, CONFIRM THE INSTALLATION MEETS THEIR REQUIREMENTS.
- B OBTAIN PERMITS & PLAN REVIEW FROM CITY OF KETCHIKAN BUILDING DEPT.
- C PRIOR TO BEGINNING THE INSTALLATION WORK, MEET WITH THE OWNER TO COORDINATE THE WORK EFFORT INCLUDING SCHEDULING THE OUTAGES, THE NEW EQUIPMENT LOCATIONS AND CONDUIT ROUTES ON THE HOME, ROOF AND SIDING REPAIR, FINISH MATERIAL, AND PAINT COLORS.
- D THIS DETAIL ILLUSTRATES THE BASIC CONCEPT FOR INSTALLING NEW SERVICE EQUIPMENT AT 308 GORGE STREET. PATCH AND PAINT ALL EXISTING OPENINGS IN ROOFS AND WALLS TO MATCH EXISTING SURFACES. PROVIDE ALL COMPONENTS FOR A COMPLETE INSTALLATION. SEE U7-8 SHEETS FOR OVERHEAD LINE LOCATIONS. SEE PHOTO 2/U12 FOR ADDITIONAL INFO
- E FIELD CONFIRM EXISTING EQUIPMENT LAYOUT, FEEDER CONNECTIONS PRIOR TO ORDERING NEW SERVICE EQUIPMENT

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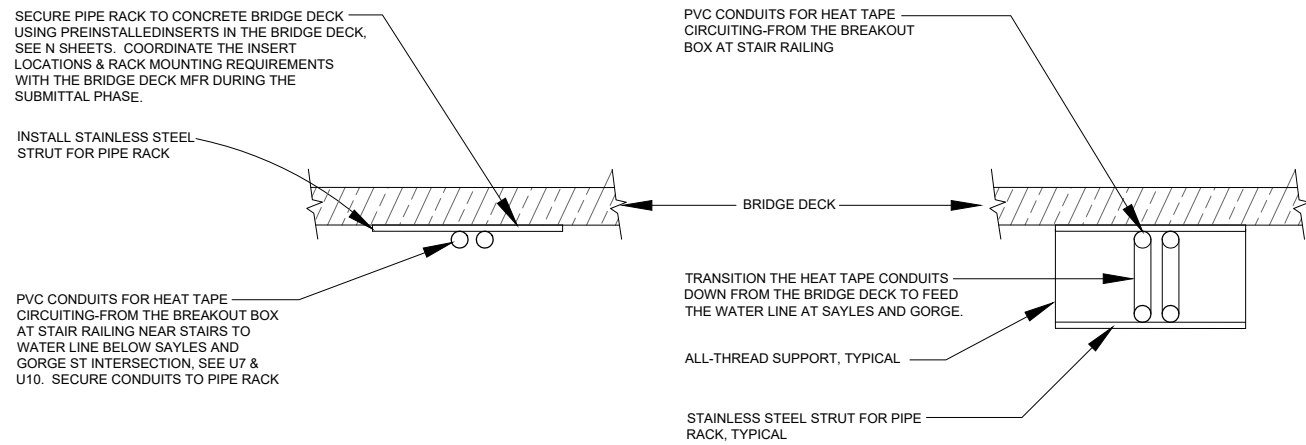
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ELECTRICAL DETAILS

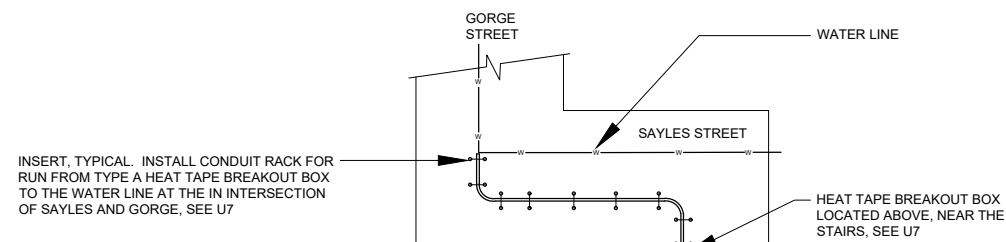
FILE S&G-U10 PrefSE 230830.dwg DATE 9/18/23 LAYOUT U12 RACK POLES DESIGNED CHECKED DRAFTED AB

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CONDUIT RUNS UNDER BRIDGE DECK

CONDUIT TRANSITION TO WATER LINE



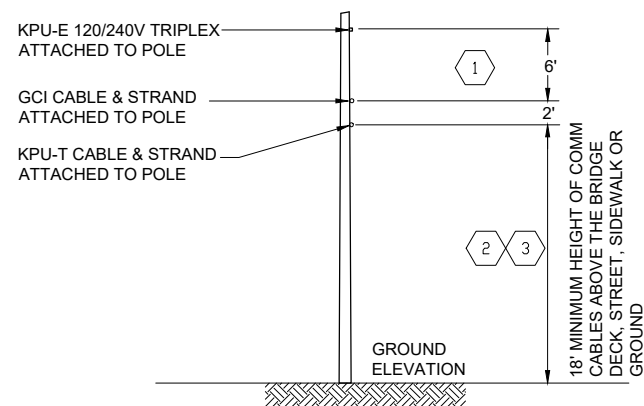
INSERTS & TRAPEZOID - UNDER THE BRIDGE DECK

1 CONDUIT RACK - UNDER THE BRIDGE DECK

NO SCALE

GENERAL NOTES:

- A. DETAIL SHOWS A GENERIC SECTION OF THE PIPE RACK. NOT ALL CONDUITS OR COMPONENTS ARE SHOWN, SEE U SHEETS FOR ADDITIONAL INFO.
- B. SEE N43 FOR BRACING.
- C. INSERTS ARE PREINSTALLED AND CANNOT BE INSTALLED IN THE BRIDGE DECK IN THE FIELD. COORDINATE THE FINAL INSERT LOCATIONS WITH THE DECK MANUFACTURER DURING THE SUBMITTAL PHASE. SEE N30 FOR INSERT LAYOUT AND N43 FOR CONDUIT RACK INFO.



THE DETAIL SHOWS THE GENERAL FRAMING REQUIREMENTS FOR KPU POWER POLES.

2 KPU GENERAL FRAMING GUIDE

NO SCALE

ELECTRICAL NOTES

- 1 THE MINIMUM DISTANCE BETWEEN ANY OF THE COMM LINES AND THE 120/240V DISTRIBUTION SYSTEM IS 48"
- 2 MAINTAIN A MINIMUM OF 5' HORIZONTAL DISTANCE BETWEEN OVERHEAD CONDUCTORS AND BUILDINGS & STRUCTURES.
- 3 MINIMUM VERTICAL CLEARANCE OVER BUILDINGS/STRUCTURES SHALL BE 10'.

TOP TIER CROSSARMS ARE CONSTRUCTED AS 34.5KV SUBTRANSMISSION AND HAVE BEEN JUMPERED AT TO OPERATE AT 12.47KV

20' RADIUS CLEARANCE BUBBLE

10' RADIUS CLEARANCE BUBBLE

LOWER TIER 12.47KV CROSSARMS

TRANSFORMER

SYSTEM NEUTRAL W/ 120/240V BELOW.

STREET LIGHT

COMMUNICATIONS CROSSARM

EDGE OF SIDEWALK

CURB

3 OSHA CLEARANCE BUBBLE

NO SCALE

GENERAL NOTES:

- A. THE DETAIL SHOWS EXISTING ARRANGEMENT ON EXISTING POLE P-M1 (GORGE AND MILLAR)
- B. THE DETAIL SHOWS THE 10 AND 20 FOOT CLEARANCE BUBBLES DRAWN CENTERED ON THE INSULATOR LOCATED ON THE RIGHT SIDE OF THE TOP CROSSARM.
- C. WORKING INSIDE OF THE 10 FOOT BUBBLE REQUIRES A CERTIFIED OPERATOR ON THE GROUND TO MONITOR CONSTRUCTION EQUIPMENT AND DISTANCE FROM ENERGIZED ELECTRICAL EQUIPMENT, CONDUCTORS, ETC.

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ELECTRICAL DETAILS

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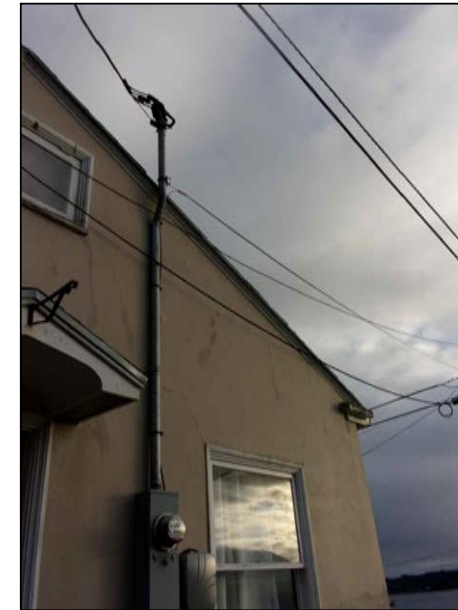
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			ALASKA	0003225/SFHWHY00070	2022	U13	U14



1 301 ELECTRIC SERVICE
NO SCALE



2 308 SERVICE DROP
NO SCALE



3 1270 ELECTRIC SERVICE
NO SCALE



4 POLE P-S1
NO SCALE



5 POLE P-S2 & 1248 COMM DROPS
NO SCALE



6 POLE P-S3
NO SCALE



7 POLE P-G1
NO SCALE

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ELECTRICAL
PHOTOS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2022	U14	U14

SERVICE INFORMATION										
120/240V, Single Phase, Three Wire Distribution										
	Address	Street	# Existing Meters	Existing Triplex (Alum)	Existing Drop	New Service	GES	Comments	Existing Electric Service Equipment	KPU Meter / Mfr.
1	1305 / 329	Gorge	1	#2	Pole P-M1		NA	KPU-E and KPU-T services are from Millar aerial distribution. The GCI service originates on Pole P-G1. NID located under deck. (2) splitters.	House is not involved in the project work area	House is not involved in the project work area
2	1271	Gorge	1	#2	Pole P-G1		No GEC visible		Existing service equipment remains: Meter only, no disconnect or CB	Westinghouse 9465
3	309 Garage	Gorge	1	#2	Pole P-G1		No GEC visible	Inactive Service; No Meter	Existing service equipment remains: Circle AW Combination meter main w/ 100A CB	No Meter
4	309	Gorge	1	#2	Pole P-G1		No GEC visible		Existing service equipment remains: B-Line meter main w/ 100A CB	
5	308 Garage	Gorge	1	#2	Pole P-G1		No GEC visible		Existing service equipment remains: Combination meter main w/CB. No Meter, CB locked closed	27099; Itron
6	308	Gorge	1	#2	Midspan Tap, P-G1 - P-S1	Y	#6G Stranded, #10G	Demo existing service. Install new service. See U16 New Service Detail	Existing service mast with conductors routed into the house, no meter or disconnect is visible	No meter is visible
7	301	Gorge	3	#1/0	Pole P-S1		#8G	Meter Pack w/ 3 Breakers: Top 125/2, Middle 100/2, Bottom 100/2	Existing service equipment remains: Square D 300A meter main w/ (3) meters. (2) 100A & (1) 125A-(Top) CBs	21219 top; 21218 middle; 21217 bottom; Itron
8	1270	Sayles	1	#2	Midspan Tap, P-G1 - P-S1		No GEC visible		Existing service equipment remains: B-Line meter main w/ 100A CB	11828; Westinghouse
9	1260	Sayles	1	#2	Pole P-S2		No GEC visible		Existing service equipment remains: Meter only, no disconnect or CB	18038; Itron
10	1248	Sayles	1	#2	Midspan Tap, P-S2 - P-S3		No GEC visible	Service is fed from midspan tap P-S2 - P-S3 and remains; no work required on overhead drop	Existing service equipment remains: meter main w/??A CB, >7AFG NEC=cannot access equipment.	14447; ABB

POLE INFORMATION												
Information for the Existing Installation												
Pole	KPU #	Status	Height	Class	Xfm #	Xfm #	Xfm Phase	Street Light	Guy	KPU Detail	120/240V Distribution	Comments
P-G1	1342-A3-3	E	45	2	N	#		Y	Y	K10, K15, M26.5	#4/0 Triplex	Existing pole to remain. Modify overhead conductors to accommodate the temporary and permanent installations.
P-S1	E00479	R/R	55	2	N	4051		Y	Y	E1.2, E3.10, K15, M26.5	#4/0 Triplex	Existing pole to be removed. Install temporary poles per drawings for power, telephone and cable TV during construction phase. After bridge work is complete install new P-S1 and associated overhead lines per drawings.
P-S2	E00164	E	45	2	N			Y	Y	E1.2, K15, M26.5	#1/0 Triplex	Existing pole to remain. The existing triplex from transformer on P-S3 depends on the P-S2. Modify overhead conductors to accommodate the temporary and permanent installations.
Information for the Temporary Installation												
P-S0-T		N		2	N			N	Y		#4/0 Triplex	Install temporary overhead system to remove all overhead cabling from crossing the work area. After bridge work is complete and the permanent system is operation, remove temporary overhead system.
P-S1-T		N		2	N			N	Y			" "
P-G1-T		N		2	N			N	Y		#1/0 Triplex	" "
P-G2-T		N		2	N			N	Y		#4/0 Triplex	" "
P-G3-T		N		2	N			N	Y		#4/0 Triplex	" "
P-G4-T		N		2	N			N	Y		#4/0 Triplex	" "
P-G5-T		N		2	N			N	Y		#4/0 Triplex	" "
Information for the Permanent Installation												
P-S1		N	55	2	N			Y	Y	E1.2, E3.10, K15, M26.5	#4/0 Triplex	After bridge work is complete install new P-S1 and associated overhead lines per drawings. After permanent system is operation, remove temporary overhead system
Information for the Existing Transformers												
P-M1		E		2	Y-100kVA	1539	A	G39				Existing transformer to remain. Extend triplex for the temporary and permanent installation.
P-S3		E		2	Y-50kVA	1493	C	G39				" "

E = EXISTING
 N = NEW
 R/R = REMOVE & REPLACE

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ELECTRICAL SERVICE & POLE INFORMATION

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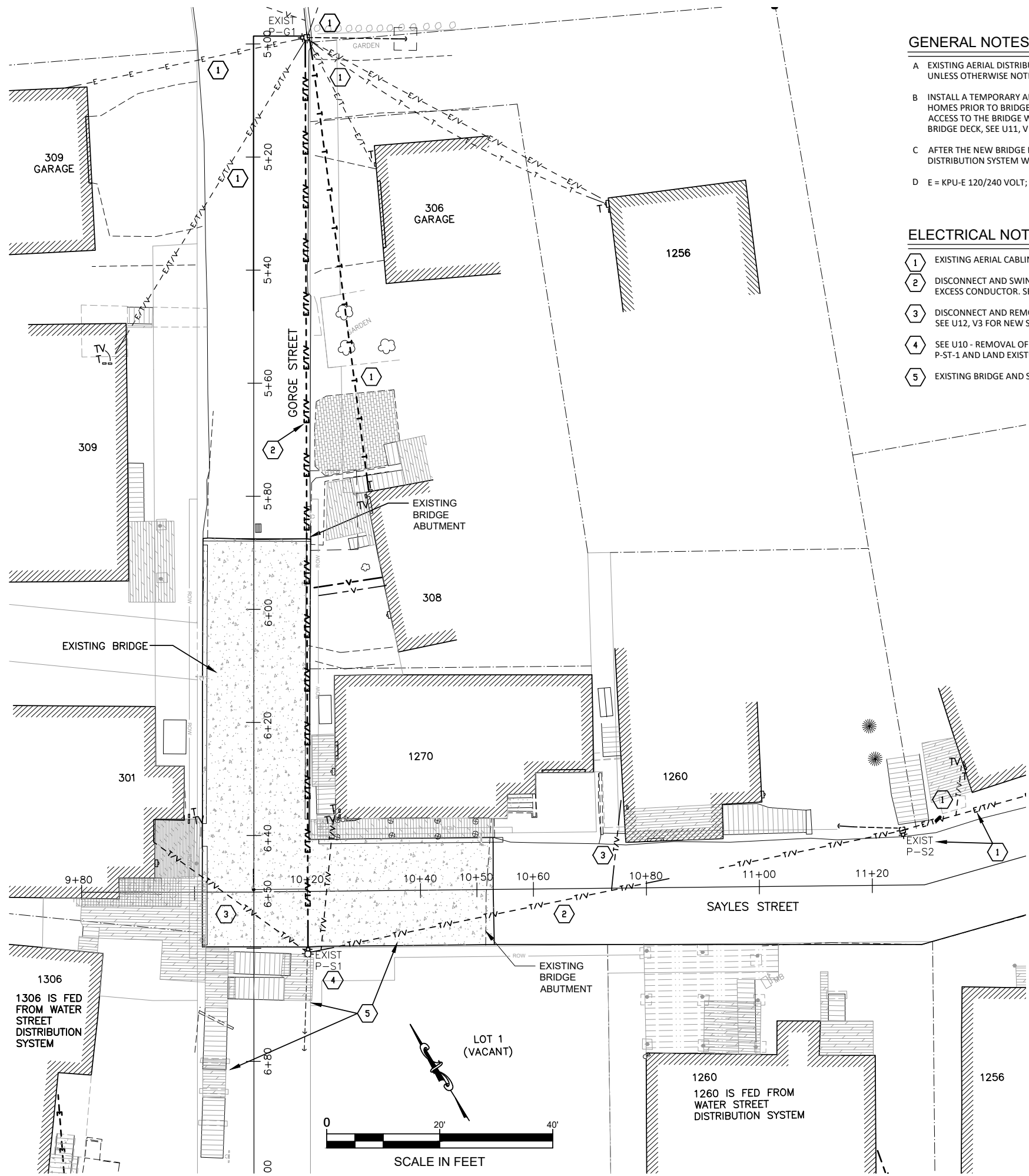
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	V1	V8

GENERAL NOTES

- A EXISTING AERIAL DISTRIBUTION SYSTEM AND SERVICE DROPS TO THE HOMES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B INSTALL A TEMPORARY AERIAL POWER DISTRIBUTION SYSTEM WITH SERVICE DROPS TO THE HOMES PRIOR TO BRIDGE DEMOLITION. THE TEMPORARY SYSTEM IS TO ALLOW COMPLETE ACCESS TO THE BRIDGE WORK AREA WITH NO OVERHEAD LINES CROSSING THE EXISTING BRIDGE DECK, SEE U11, V SHEETS.
- C AFTER THE NEW BRIDGE IS INSTALLED, INSTALL THE PERMANENT AERIAL POWER DISTRIBUTION SYSTEM WITH AERIAL DROPS TO THE HOMES, SEE U12, V SHEETS.
- D E = KPU-E 120/240 VOLT; V = CABLE TV -COAXIAL CABLE, T = KPU-T FIBER OPTIC

ELECTRICAL NOTES

- 1 EXISTING AERIAL CABLING TO REMAIN
- 2 DISCONNECT AND SWING EXISTING AERIAL DISTRIBUTION TO TEMPORARY POLE. REMOVE EXCESS CONDUCTOR. SEE U11, V2 FOR TEMPORARY SYSTEM, SEE U12, V3 FOR NEW SYSTEM.
- 3 DISCONNECT AND REMOVE EXISTING SERVICE DROP. SEE U11, V2 FOR TEMPORARY SYSTEM, SEE U12, V3 FOR NEW SYSTEM.
- 4 SEE U10 - REMOVAL OF EXISTING POLE P-S1 AND INSTALLATION OF NEW TEMPORARY POLE P-ST-1 AND LAND EXISTING CABLING ON THE TEMPORARY POLE, SEE U11
- 5 EXISTING BRIDGE AND STAIRS TO BE DEMOLISHED, SEE F AND N SHEETS.



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TELECOMM SITE PLAN
 EXISTING SYSTEM

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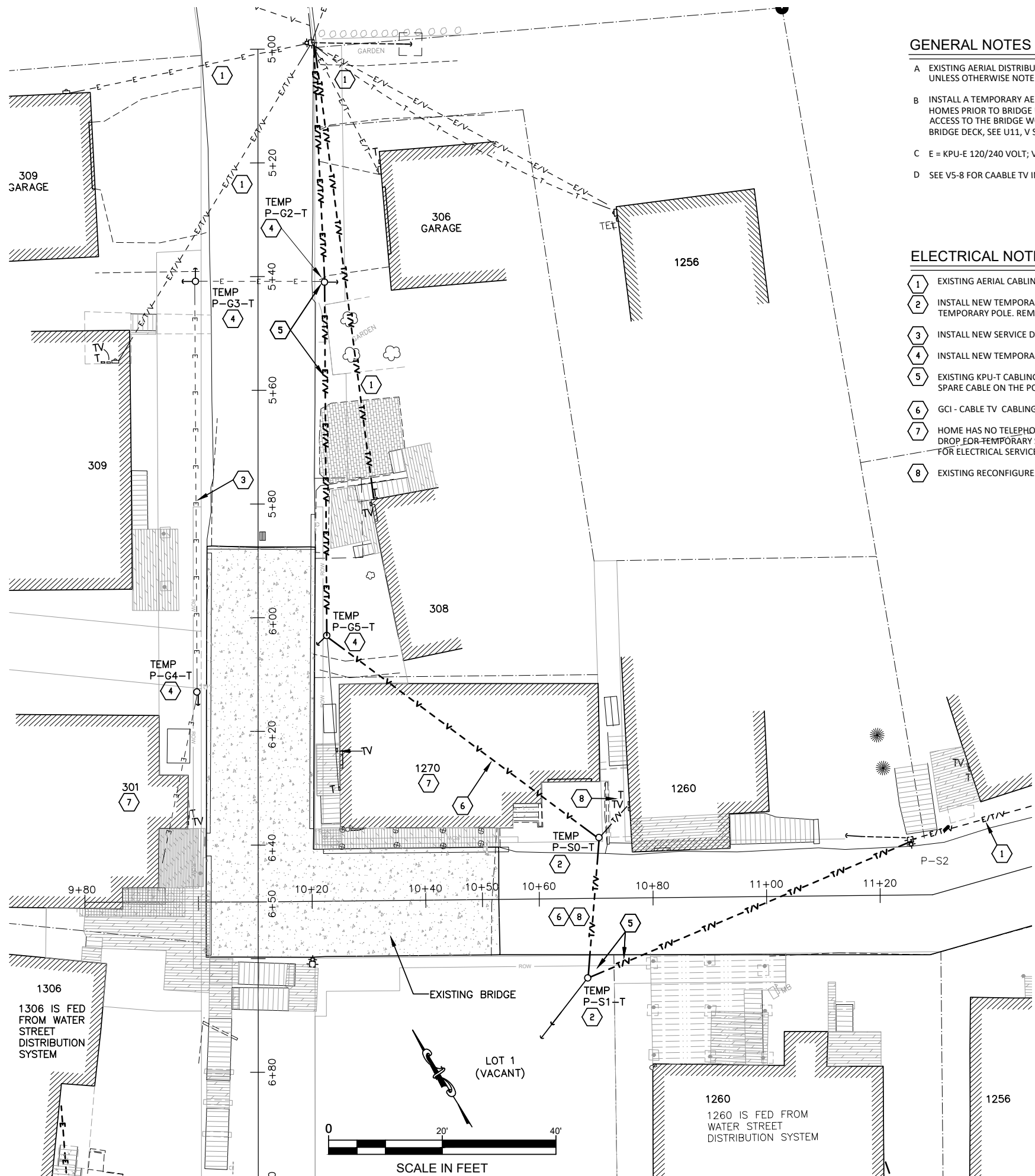
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	V2	V8

GENERAL NOTES

- A EXISTING AERIAL DISTRIBUTION SYSTEM AND SERVICE DROPS TO THE HOMES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B INSTALL A TEMPORARY AERIAL POWER DISTRIBUTION SYSTEM WITH SERVICE DROPS TO THE HOMES PRIOR TO BRIDGE DEMOLITION. THE TEMPORARY SYSTEM IS TO ALLOW COMPLETE ACCESS TO THE BRIDGE WORK AREA WITH NO OVERHEAD LINES CROSSING THE EXISTING BRIDGE DECK, SEE U11, V SHEETS.
- C E = KPU-E 120/240 VOLT; V = CABLE TV -COAXIAL CABLE, T = KPU-T FIBER OPTIC
- D SEE V5-8 FOR CAABLE TV INSTALLATION

ELECTRICAL NOTES

- 1 EXISTING AERIAL CABLING TO REMAIN
- 2 INSTALL NEW TEMPORARY POLE P-S1-T AND LAND EXISTING AERIAL CABLING ON THE TEMPORARY POLE. REMOVE EXCESS CONDUCTOR.
- 3 INSTALL NEW SERVICE DROP.
- 4 INSTALL NEW TEMPORARY POLE.
- 5 EXISTING KPU-T CABLING, REINSTALL AERIAL TERMINALS AT TEMPORARY POLE AND COIL SPARE CABLE ON THE POLE
- 6 GCI - CABLE TV CABLING, SEE V5-8
- 7 HOME HAS NO TELEPHONE OR CABLE TV DROPS FOR THE TEMPORARY SYSTEM. DISCONNECT DROP FOR TEMPORARY SYSTEM. SEE V3 FOR CONNECTION TO PERMANENT SYSTEM. SEE U6 FOR ELECTRICAL SERVICE DROP.
- 8 EXISTING RECONFIGURE KPU-T DROP TO 1260



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TELECOMM SITE PLAN
 TEMPORARY SYSTEM

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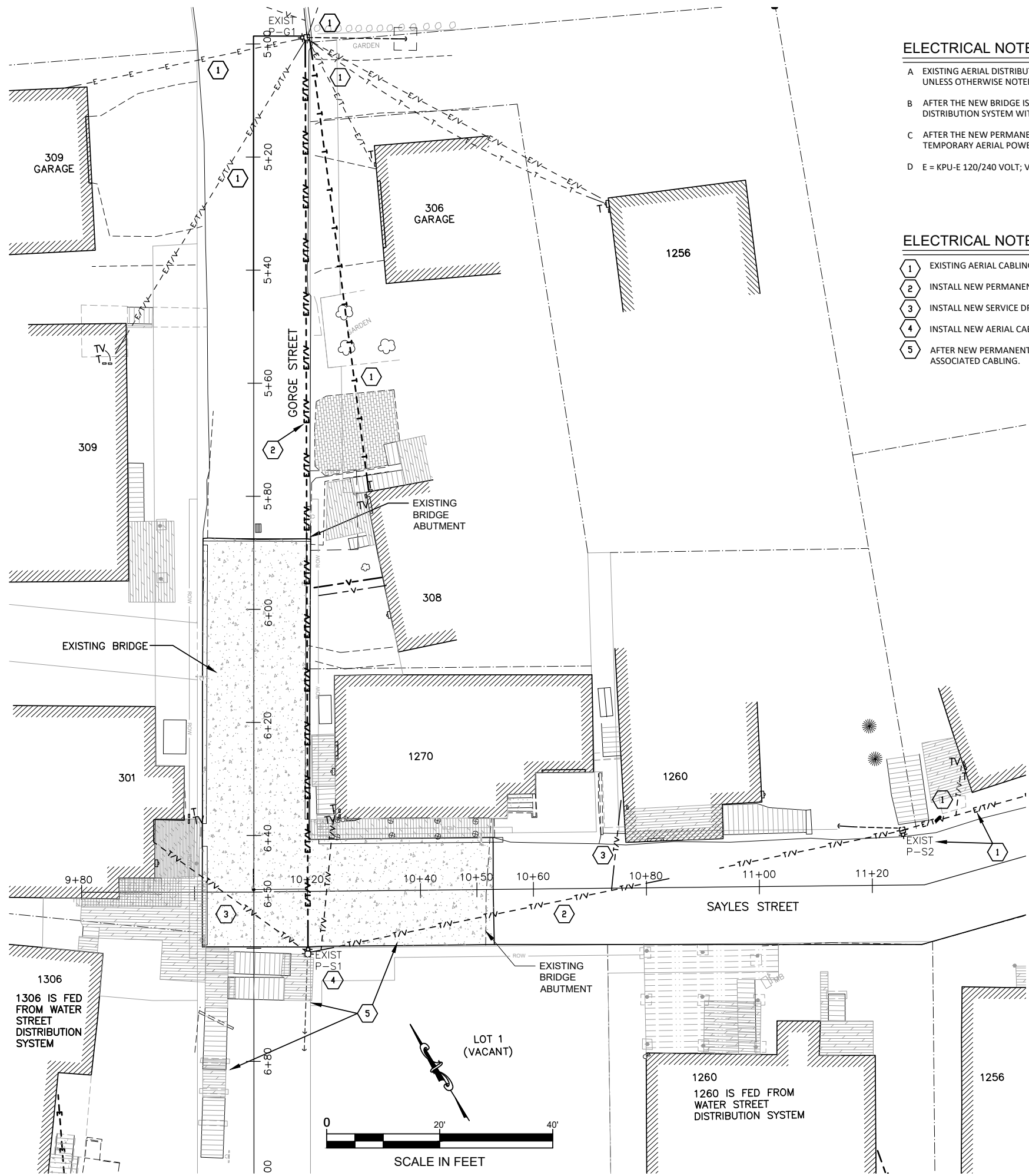
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ELECTRICAL NOTES

- A EXISTING AERIAL DISTRIBUTION SYSTEM AND SERVICE DROPS TO THE HOMES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B AFTER THE NEW BRIDGE IS INSTALLED, INSTALL THE PERMANENT AERIAL POWER DISTRIBUTION SYSTEM WITH AERIAL DROPS TO THE HOMES, SEE U12, V SHEETS.
- C AFTER THE NEW PERMANENT AERIAL SYSTEM IS INSTALLED, DISCONNECT AND REMOVE THE TEMPORARY AERIAL POWER DISTRIBUTION SYSTEM SHOWN ON U11.
- D E = KPU-E 120/240 VOLT; V = CABLE TV - COAXIAL CABLE, T = KPU-T FIBER OPTIC

ELECTRICAL NOTES

- 1 EXISTING AERIAL CABLING TO REMAIN
- 2 INSTALL NEW PERMANENT POLE.
- 3 INSTALL NEW SERVICE DROP.
- 4 INSTALL NEW AERIAL CABLING.
- 5 AFTER NEW PERMANENT SYSTEM IS INSTALLED REMOVE TEMPORARY POLES AND ASSOCIATED CABLING.



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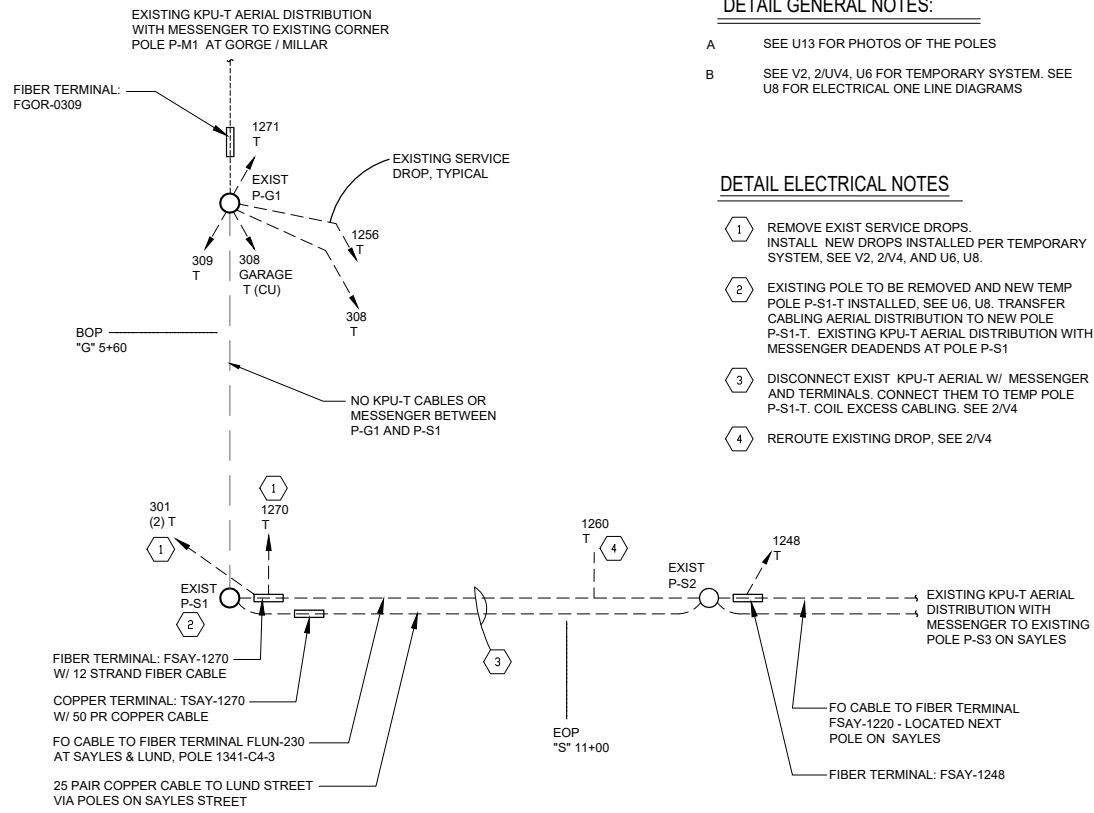
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TELECOMM SITE PLAN
 PERMANENT SYSTEM

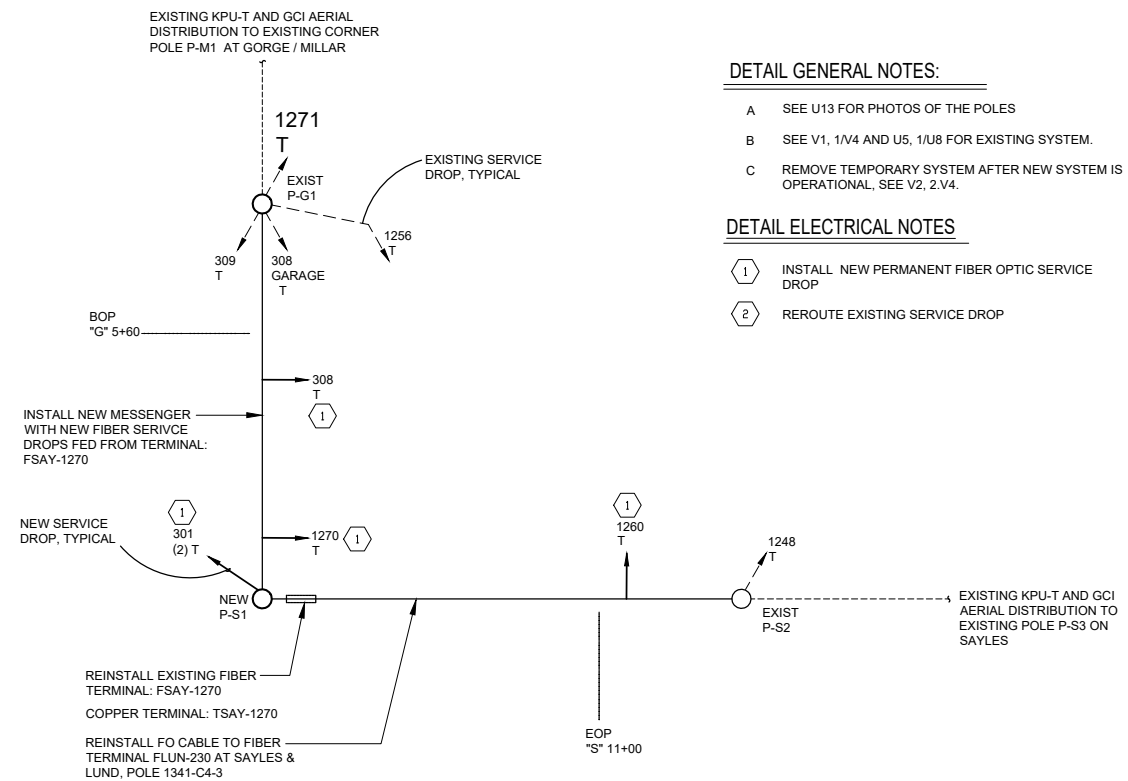
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			ALASKA	0003225/SFHWY00070	2022	V4	V8



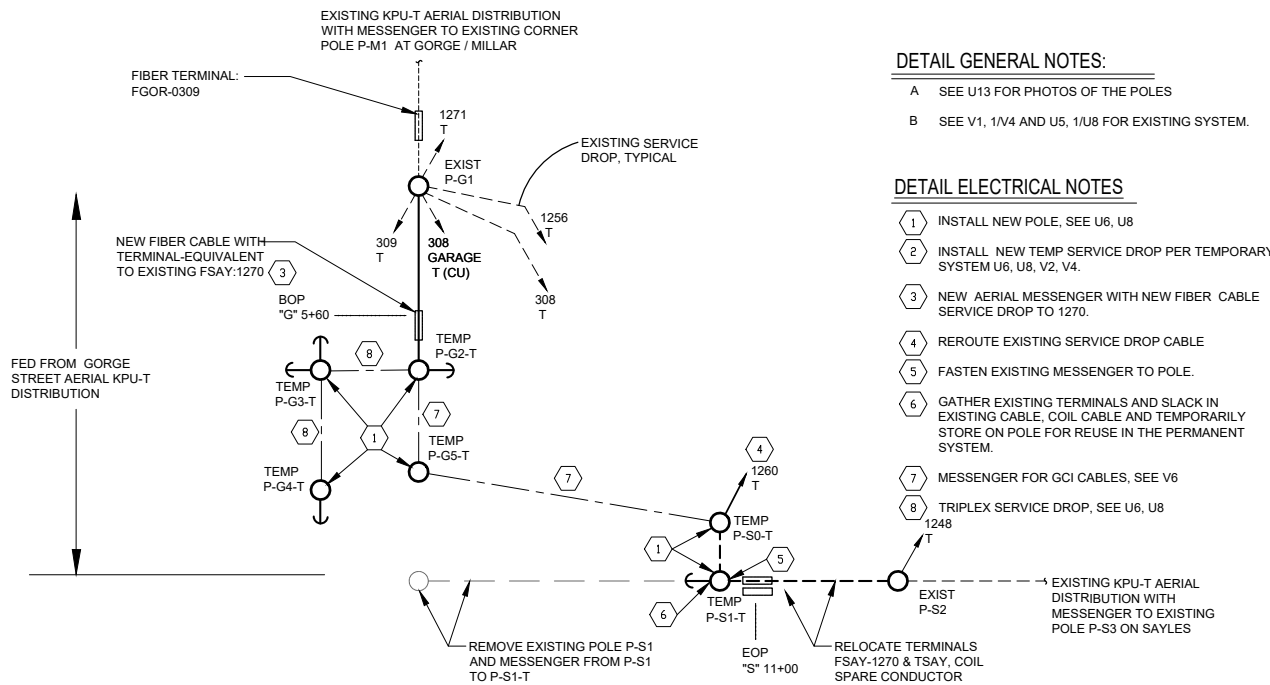
1 TELEPHONE ONE LINE DIAGRAM - EXISTING INSTALLATION
NO SCALE

- DETAIL GENERAL NOTES:**
- A SEE U13 FOR PHOTOS OF THE POLES
 - B SEE V2, 2/UV4, U6 FOR TEMPORARY SYSTEM. SEE U8 FOR ELECTRICAL ONE LINE DIAGRAMS
- DETAIL ELECTRICAL NOTES**
- 1 REMOVE EXIST SERVICE DROPS. INSTALL NEW DROPS INSTALLED PER TEMPORARY SYSTEM. SEE V2, 2/UV4, AND U6, U8.
 - 2 EXISTING POLE TO BE REMOVED AND NEW TEMP POLE P-S1-T INSTALLED. SEE U6, U8. TRANSFER CABLING AERIAL DISTRIBUTION TO NEW POLE P-S1-T. EXISTING KPU-T AERIAL DISTRIBUTION WITH MESSENGER DEADENDS AT POLE P-S1
 - 3 DISCONNECT EXIST KPU-T AERIAL W/ MESSENGER AND TERMINALS. CONNECT THEM TO TEMP POLE P-S1-T. COIL EXCESS CABLING. SEE 2/V4
 - 4 REROUTE EXISTING DROP. SEE 2/V4



3 TELEPHONE ONE LINE DIAGRAM - PERMANENT INSTALLATION
NO SCALE

- DETAIL GENERAL NOTES:**
- A SEE U13 FOR PHOTOS OF THE POLES
 - B SEE V1, 1/V4 AND U5, 1/U8 FOR EXISTING SYSTEM.
 - C REMOVE TEMPORARY SYSTEM AFTER NEW SYSTEM IS OPERATIONAL. SEE V2, 2/V4.
- DETAIL ELECTRICAL NOTES**
- 1 INSTALL NEW PERMANENT FIBER OPTIC SERVICE DROP
 - 2 REROUTE EXISTING SERVICE DROP



2 TELEPHONE ONE LINE DIAGRAM - TEMPORARY INSTALLATION
NO SCALE

- DETAIL GENERAL NOTES:**
- A SEE U13 FOR PHOTOS OF THE POLES
 - B SEE V1, 1/V4 AND U5, 1/U8 FOR EXISTING SYSTEM.
- DETAIL ELECTRICAL NOTES**
- 1 INSTALL NEW POLE. SEE U6, U8
 - 2 INSTALL NEW TEMP SERVICE DROP PER TEMPORARY SYSTEM U6, U8, V2, V4.
 - 3 NEW AERIAL MESSENGER WITH NEW FIBER CABLE SERVICE DROP TO 1270.
 - 4 REROUTE EXISTING SERVICE DROP CABLE
 - 5 FASTEN EXISTING MESSENGER TO POLE.
 - 6 GATHER EXISTING TERMINALS AND SLACK IN EXISTING CABLE. COIL CABLE AND TEMPORARILY STORE ON POLE FOR REUSE IN THE PERMANENT SYSTEM.
 - 7 MESSENGER FOR GCI CABLES. SEE V6
 - 8 TRIPLEX SERVICE DROP. SEE U6, U8

PLANS DEVELOPED BY: NELSON ELECTRICAL ENGINEERING 209 Bunchberry Road Ketchikan, Alaska 99901 907-617-7761		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 6860 GLACIER HIGHWAY, JUNEAU, AK 99801 (907) 465-1763 KTN: SAYLES/GORGE ST. VIADUCT (1841) IMPROVEMENTS TELEPHONE ONE LINE DIAGRAMS
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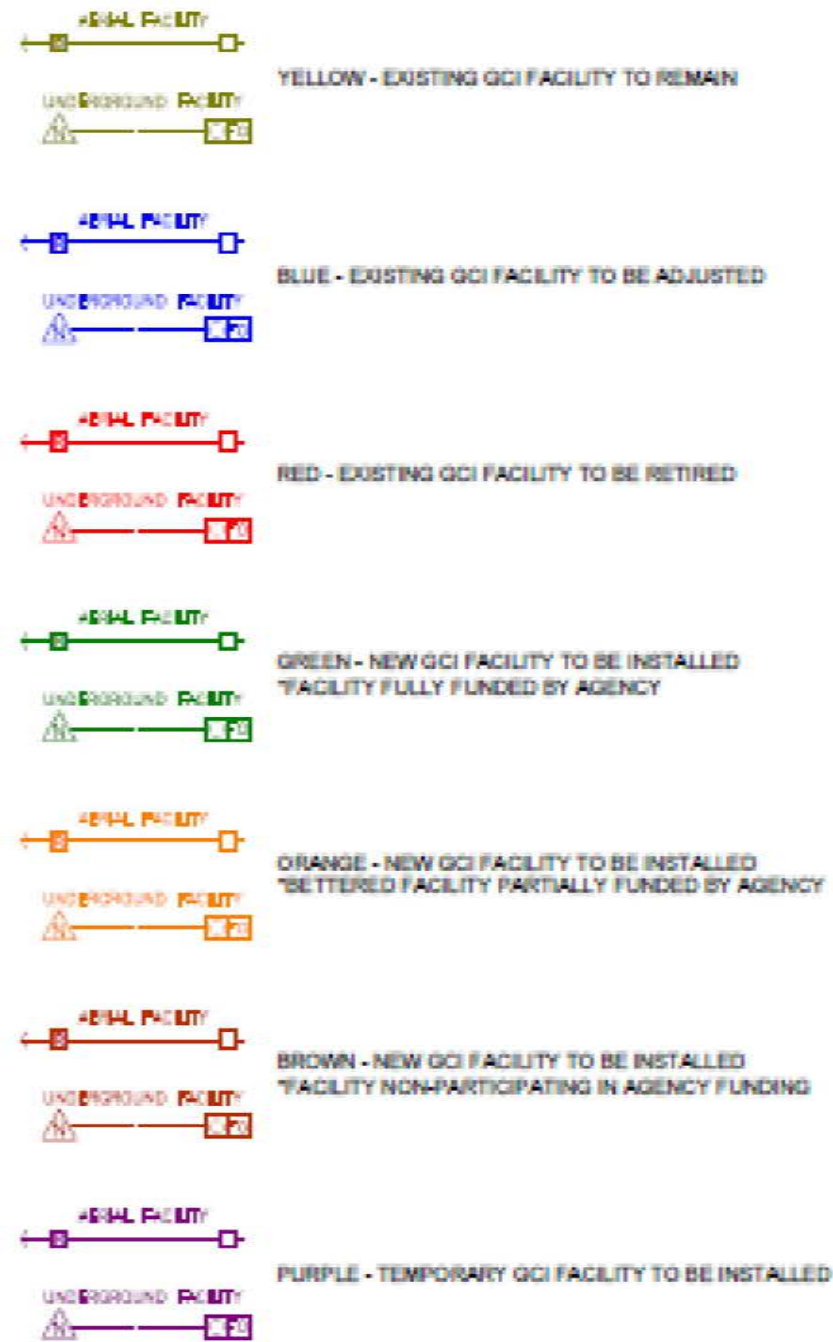
FILE S&G-U10 prePSE 230830.dwg DATE 9/18/23 LAYOUT V5 DESIGNED CHECKED DRAFTED AB

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWY00070	2022	V5	V8

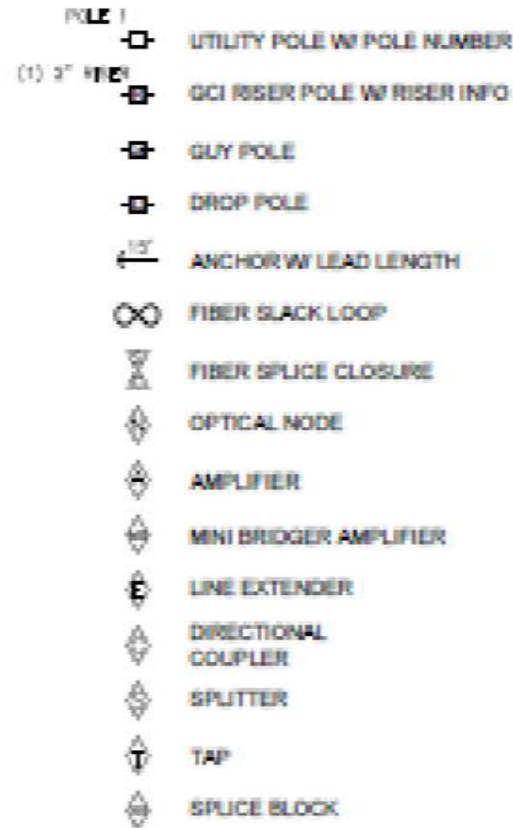
LEGEND

*SYMBOLS ARE PROVIDED FOR POSITIONAL REFERENCE ONLY. GCI SYSTEM DESIGN SHEETS SHOULD BE REFERRED TO FOR ACTUAL SYSTEM LAYOUT AND SPlicing.

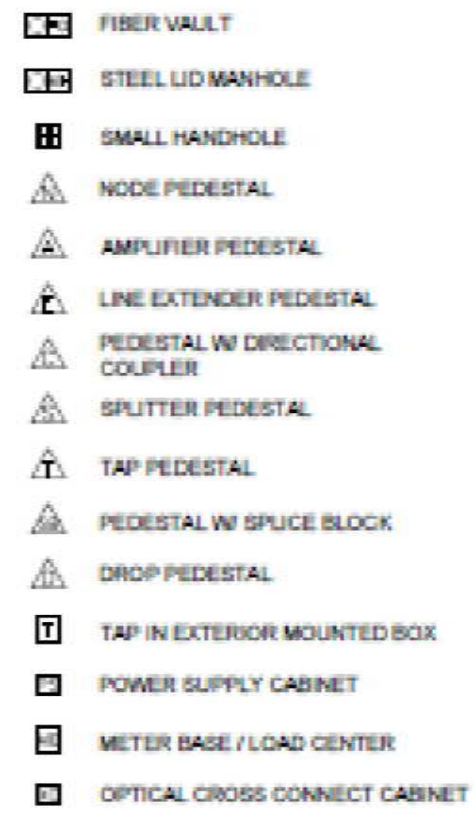
FACILITY LINE TYPES & COLOR CODES



AERIAL FACILITY SYMBOLS



UNDERGROUND FACILITY SYMBOLS



FACILITY ID CONVENTION



FACILITY ID SUFFIXES

C - COAXIAL CABLE
F - FIBER OPTIC CABLE

COMMON ABBREVIATIONS

AC - ASPHALT CUT
C/C - CABLE IN CONDUIT
DBC - DIRECT BURIED CABLE
DB - DIRECTIONAL BORE
EHS - EXTRA HIGH STRENGTH (STRAND)
HD - HAND DIG
HB - HOG BORE
JB - JOINT BORE
JT - JOINT TRENCH
OH - OVERHEAD
PSP - POWER SUPPLY FEED
STM - STATUS MONITORING
SVC - SERVICE DROP
UG - UNDERGROUND

SPECIAL CONSTRUCTION METHODS



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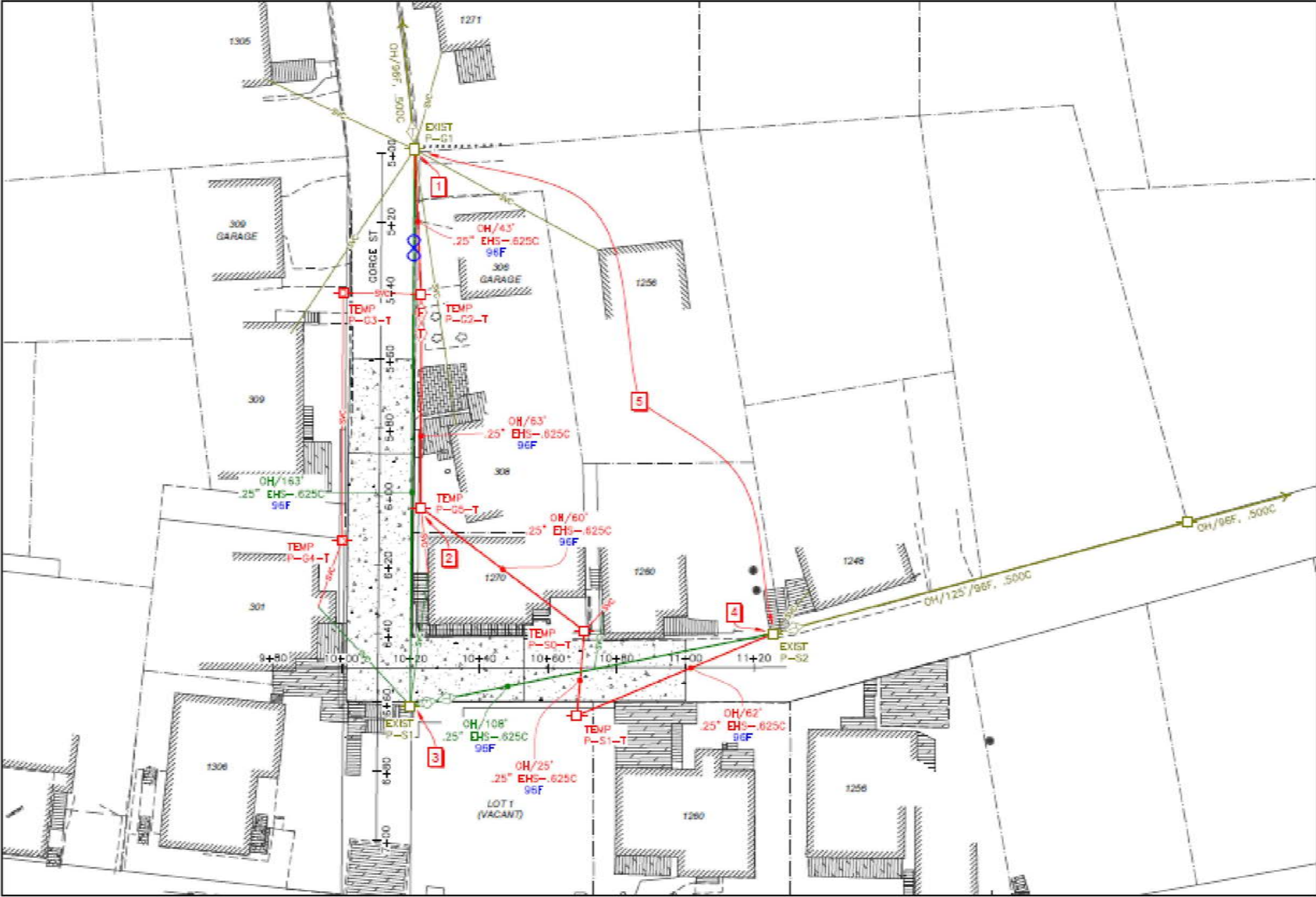
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CABLE TV - LEGEND

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2022	V6	V8

FILE S&G-U10 prePSE 230830.dwg | DATE 9/18/23 | LAYOUT V6 | DESIGNED | CHECKED | DRAFTED | AB



- 1.) At existing pole P-G1: Dead-end permanent .25" strand and splice permanent .625 coax
 - 2.) At temporary pole P-G5-T: Coordinate KPU anchoring to allow for the permanent reconfiguration of the existing active 96 count fiber optic cable.
 - 3.) At existing pole P-S1: Splice permanent line extender, permanent tap, and permanent .625 coax.
From the tap at pole P-S1: Restore permanent service to 301, 1270, and 1260.
 - 4.) At existing pole P-S2: Dead-end permanent .25" strand and splice permanent .625 coax
 - 5.) Relocate existing active 96 count fiber optic cable from temporary alignment to permanent alignment. Fiber to remain active during relocation.
- At temporary pole P-G5-T: Coordinate KPU anchoring to allow for the permanent reconfiguration of the existing active 96 count fiber optic cable.

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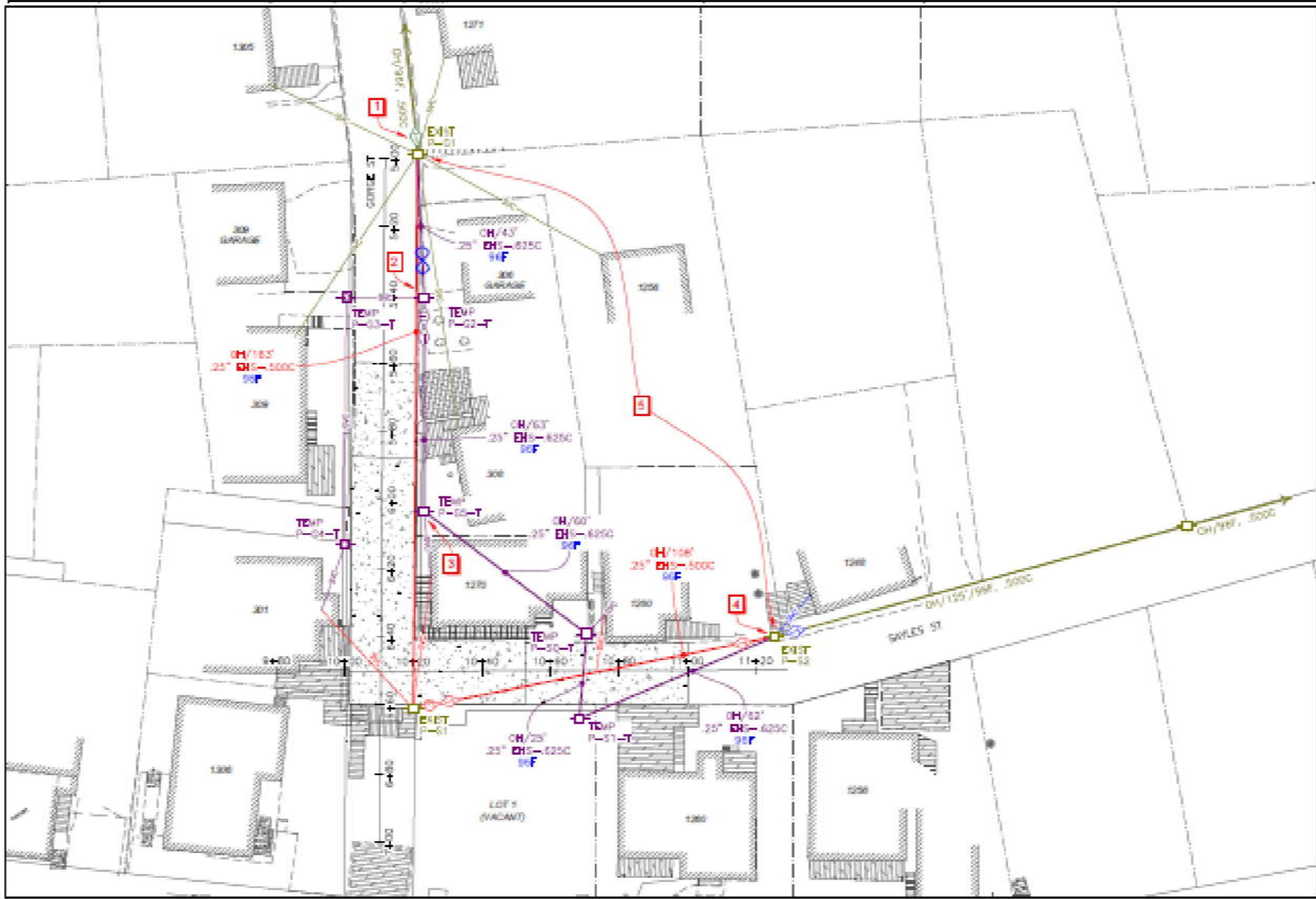
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KTN: SAYLES/GORGE ST. VIADUCT
 (1841) IMPROVEMENTS

CABLE TV SITE PLAN
 EXISTING SYSTEM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHWHY00070	2022	V7	V8

FILE S&G-U10 prePSE 230830.dwg DATE 9/18/23 LAYOUT V7 DESIGNED CHECKED DRAFTED AB



1.) At existing pole P-G1: Dead-end existing .25" strand to remain in place and temporary .25" strand, change out existing tap, splice temporary .625 coax, and gather the slack from the existing active 96 count fiber optic cable for storage on temporary aerial alignment.

From the tap at pole P-G1: Maintain existing services to 1305, 1271, 309, 308, and 1256.

2.) At temporary pole P-G2-T: Splice temporary line extender, temporary tap, and temporary .625 coax.

From the tap at pole P-G2-T: Temporarily serve 301 and 1270. The service to 301 shall not be routed over the construction area and shall be routed from pole P-G2-T, then to P-G3-T, then to P-G4-T, and then to customer.

3.) At temporary pole P-G5-T: Coordinate KPU anchoring to allow for the temporary reconfiguration of the existing active 96 count fiber optic cable.

4.) At existing pole P-S2: Dead-end existing .25" strand to remain in place and temporary .25" strand, relocate existing tap to the span to the east that is to remain in place, and splice temporary .625 coax.

From the tap at pole P-S2: Reconfigure service to 1248 as required for permanent installation, and temporarily serve 1260. The service to 1260 shall be routed from pole P-S2, then to P-S1-T, then to P-S0-T, and then to customer.

5.) Relocate existing active 96 count fiber optic cable from existing alignment to temporary alignment. Fiber to remain active during relocation.

At temporary pole P-G5-T: Coordinate KPU anchoring to allow for the temporary reconfiguration of the existing active 96 count fiber optic cable.

At existing pole P-G1: Gather the slack from the existing active 96 count fiber optic cable for looped storage at pole.

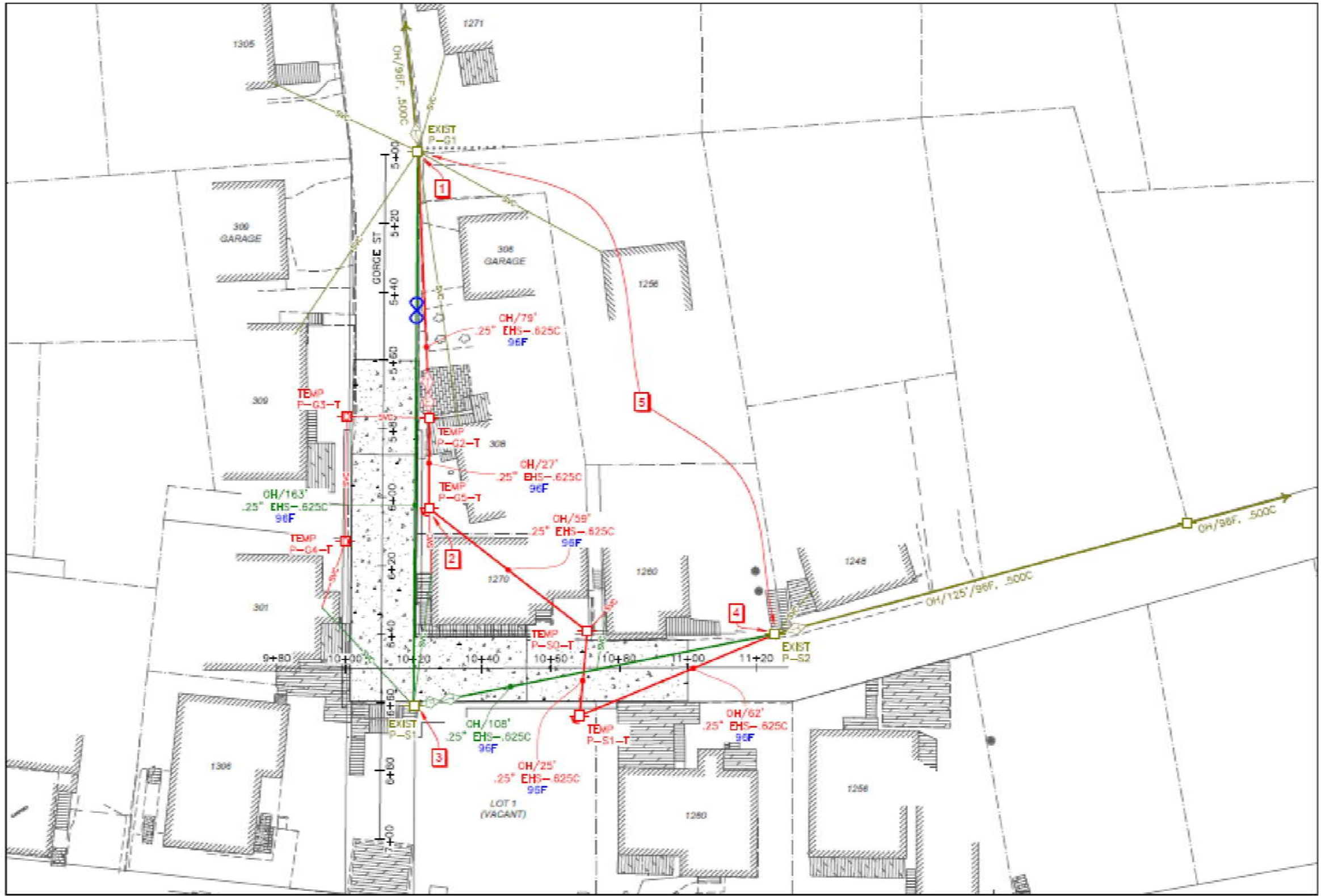
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CABLE TV SITE PLAN
TEMPORARY SYSTEM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003225/SFHwy00070	2022	V8	V8

FILE S&G-U10 prePSE 230830.dwg | DATE 9/18/23 | LAYOUT V8 | DESIGNED | CHECKED | DRAFTED | AB



- 1.) At existing pole P-G1: Dead-end permanent .25" strand and splice permanent .625 coax
 - 2.) At temporary pole P-G5-T: Coordinate KPU anchoring to allow for the permanent reconfiguration of the existing active 96 count fiber optic cable.
 - 3.) At existing pole P-S1: Splice permanent line extender, permanent tap, and permanent .625 coax.
From the tap at pole P-S1: Restore permanent service to 301, 1270, and 1260.
 - 4.) At existing pole P-S2: Dead-end permanent .25" strand and splice permanent .625 coax
 - 5.) Relocate existing active 96 count fiber optic cable from temporary alignment to permanent alignment. Fiber to remain active during relocation.
- At temporary pole P-G5-T: Coordinate KPU anchoring to allow for the permanent reconfiguration of the existing active 96 count fiber optic cable.

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 (1841) IMPROVEMENTS

CABLE TV SITE PLAN
 PERMANENT SYSTEM