

PROJECT LOCATION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

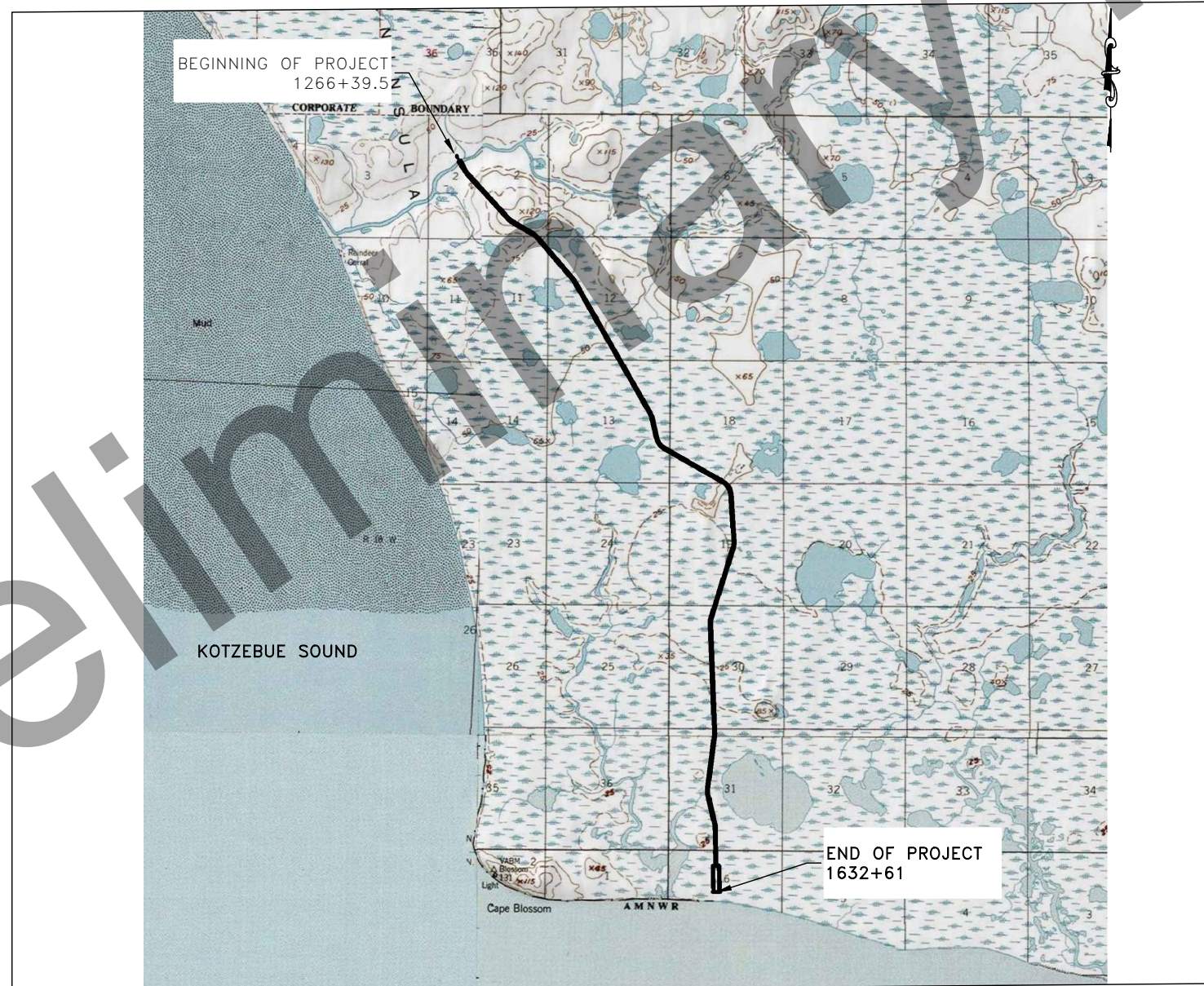
PROPOSED HIGHWAY PROJECT

0002204/NFHWHY00718

KOTZEBUE TO CAPE BLOSSOM – STAGE II
NEW CONSTRUCTION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHWHY00718	2022	A1	43
			CDS ROUTE:	N/A	MILEPOINT:	N/A TO	N/A

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND & SHEET LAYOUT INDEX
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & GENERAL NOTES
D1	TURNOUT AND APPROACH DETAILS AND SUMMARIES
E1-E2	CULVERT DETAILS AND SUMMARY
F1-F13	PLAN & PROFILE
F14	MATERIAL SITES
N1-N21	BRIDGE PLANS
Q1	EROSION AND SEDIMENT CONTROL PLAN
T1	TRAFFIC CONTROL PLAN
V1-V?	STANDARD DRAWINGS



DESIGN DESIGNATIONS	
ADT (2012)	0
ADT (2035)	100
DESIGN SPEED (V)	45 MPH

PROJECT SUMMARY	
WIDTH OF PAVEMENT	24 FT (TYP)
LENGTH OF PROJECT	7.0 MILES

JONATHAN HUTCHINSON P.E., PROJECT MANAGER
SCOTT MAYBRIER, DESIGNER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: _____ DATE _____

Sarah E. Schacher, P.E.
Preconstruction Engineer, Northern Region
ACCEPTED FOR CONSTRUCTION:

Joseph P. Kemp, P.E.
Regional Director, Northern Region

DATE _____

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PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
 H:\Projects\Communities\Kotzebue\76894_Kotz_to_Cape_Blossom_Stage_II\04_P&E\04_Plans\1_Plat\76894_A-HWYS_Layout_Mon_Sep/19/22_12:58pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	A2	A2

	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		
MISCELLANEOUS CENTERLINE		
STATION EQUATION		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
UTILITY EASEMENT LINE		
TEMPORARY EASEMENT LINE (TCP OR TCE)		
ACCESS OR SECTION LINE EASEMENT		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE		

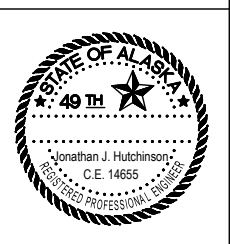
	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)		
FUEL LINE		
GAS LINE		
WATER LINE		
METER, VALVE, FIRE HYDRANT		
EXISTING STORM DRAIN (FLOW DIRECTION →)		
PROPOSED STORM DRAIN		
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE 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		

	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		

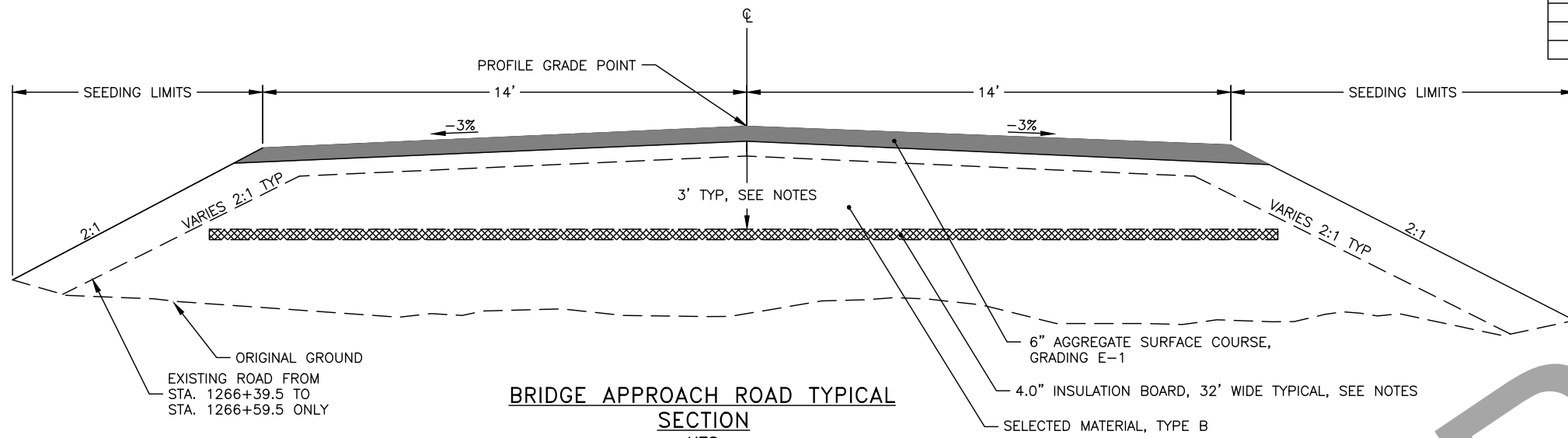
	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL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

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

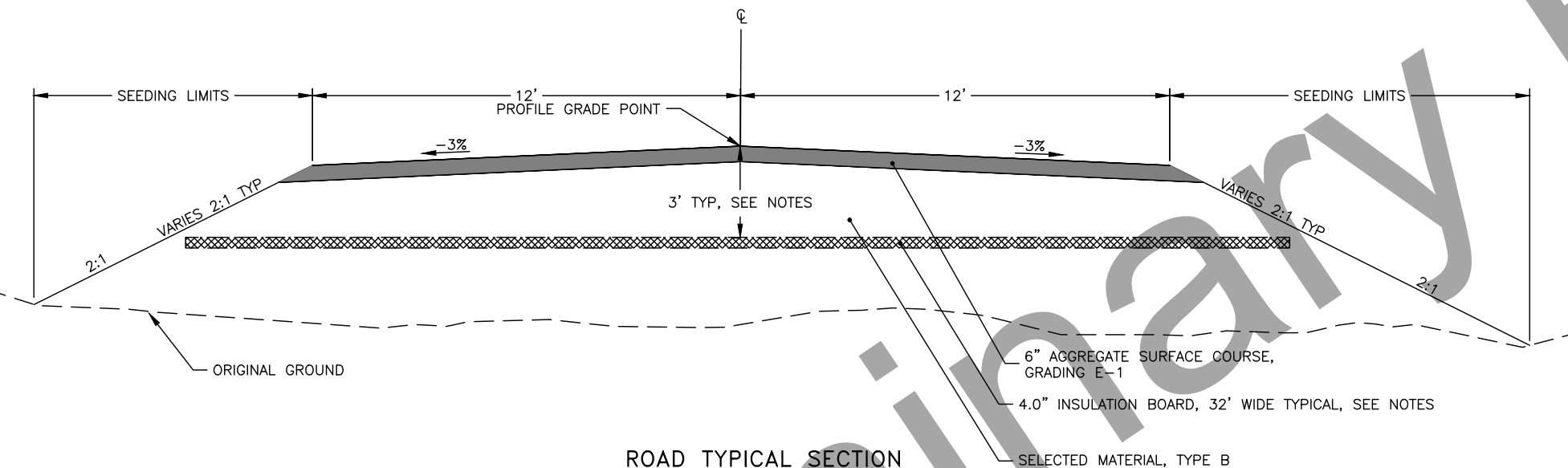
LEGEND & SHEET LAYOUT INDEX



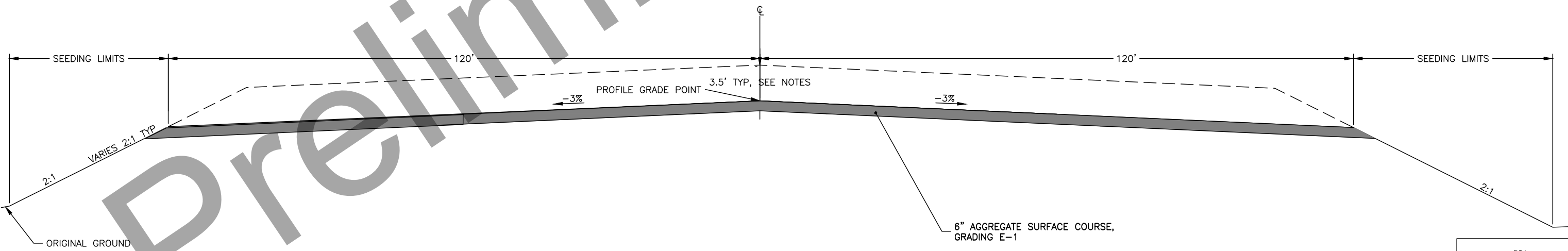
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	B1	B1



BRIDGE APPROACH ROAD TYPICAL SECTION
 NTS
 STA. 1266+39.5 TO STA. 1266+59.5
 STA. 1268+97.2 TO STA. 1269+19.2



ROAD TYPICAL SECTION
 NTS
 STA. 1266+59.5 TO STA. 1621+36



TERMINUS PAD TYPICAL SECTION
 NTS
 STA. 1621+36 TO STA. 1632+61

NOTES:

1. USE ROAD TYPICAL SECTIONS AT THE LOCATIONS SPECIFIED EXCEPT FOR TURNOUTS AS SHOWN ON SHEET D1.
2. AVOID DISTURBING NATURAL VEGETATIVE MAT UNLESS APPROVED BY THE ENGINEER.
3. TRANSITION BETWEEN TYPICALS AS DIRECTED.
4. CONSTRUCT LOWER PORTION OF EMBANKMENT, ALL INSULATION BOARD, AND 12" EMBANKMENT COVER OVER INSULATION, ENTIRELY IN FROZEN CONDITIONS AND WITHIN ONE WINTER SEASON. REMAINDER OF EMBANKMENT AND SURFACING MUST BE FINISHED IN UN-FROZEN CONDITIONS. SEE SPECIFICATIONS SECTION 203.
5. SELECTED MATERIAL, TYPE C, MAY BE USED IN PLACE OF SELECTED MATERIAL TYPE B TO CONSTRUCT PORTIONS OF THE EMBANKMENT 4' OR MORE BELOW PROFILE GRADE POINT, EXCEPT THAT TYPE C MATERIAL MAY NOT BE USED ABOVE INSULATION BOARD.
6. INSTALL INSULATION BOARD AT LOCATIONS SHOWN IN THE INSULATION BOARD SUMMARY TABLE, AND AS DIRECTED.
7. INSTALL INSULATION BOARD 3' (TYP) BELOW PROFILE GRADE POINT. WHERE REQUIRED, ADJUST INSULATION DEPTH SUCH THAT INSULATION IS NOT LESS THAN 1.5' BELOW FINISHED GRADE AND 1' ABOVE ORIGINAL GROUND. ADJUST INSULATION WIDTH WHEN NECESSARY IN 4' INCREMENTS TO MAINTAIN MINIMUM EMBANKMENT COVER OF 12".
8. INSTALL INSULATION BOARD IN TURNOUTS, PER NOTE 7.
9. INSTALL INSULATION BOARD INTO APPROACHES TO AN OFFSET FROM ROADWAY CENTERLINE OF 24', PER NOTE 7.
10. INSTALL 6 INCHES OF INSULATION BOARD UNDER ALL CULVERTS. SEE DETAIL ON SHEET E2.

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TYPICAL SECTIONS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	35,000
203.0006.0000	BORROW, TYPE B	TON	428,458
205.0006.0000	STRUCTURAL FILL	CY	854
301.0003.00E1	AGGREGATE SURFACE COURSE, GRADING E-1	TON	27,389
501.0001.0000	CLASS A CONCRETE	CY	187
501.0007.0000	PRECAST CONCRETE MEMBER, DECK PANEL	EACH	58
503.0001.0000	REINFORCING STEEL	LBS	55,696
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LBS	1,941
504.0001.0000	STRUCTURAL STEEL	LBS	274,285
505.0005.0000	FURNISH STRUCTURAL STEEL PIPE PILE, 2'-0" DIA. X 1/2" PIPE	LF	827,912
505.0005.0000	FURNISH STRUCTURAL STEEL PIPE PILE, 3'-0" DIA. X 3/4" PIPE	LF	912
505.0006.0000	DRIVE STRUCTURAL STEEL PIPE PILES, 2'-0" DIA. X 1/2" PIPE	EACH	8
505.0006.0000	DRIVE STRUCTURAL STEEL PIPE PILES, 3'-0" DIA. X 3/4" PIPE	EACH	8
507.0001.0002	STEEL BRIDGE RAILING, 2-TUBE	LF	552
603.0021.0024	CORRUGATED POLYETHYLENE PIPE 24 INCH	LF	2,306
606.0016.0000	TRANSITION RAIL	EACH	4
611.0001.0002	Riprap Class II	CY	3,820
613.0002.0000	CULVERT MARKER POST	EACH	82
618.0000.0000	SEEDING	LB	801
618.0002.0000	VEGETATED MAT REMOVAL AND PLACEMENT	LS	1
624.0001.0000	CALCIUM CHLORIDE	TON	36
631.0002.0001	GEOTEXTILE, EROSION CONTROL, CLASS I	SY	4,340
635.0001.0000	INSULATION BOARD	MBM	6,106
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	1
640.0004.0000	WORKER MEALS AND LODGING, OR PER DIEM	LS	1
641.0001.0000	ESCP ADMIN	LS	1
641.0003.0000	TEMP ESCP CONTROL	LS	1
641.0004.0000	TEMP ESCP ADDITIVES	CS	1
641.0006.0000	WITHHOLDING	CS	0
641.0007.0000	SWPPP MANAGER	LS	1
642.0001.0000	CONSTRUCTION SURVEYING	LS	1
642.0013.0000	THREE PERSON SURVEY PARTY	CS	1
643.0002.0000	TRAFFIC MAINTENANCE	LS	1
643.0025.0000	TRAFFIC CONTROL I	CS	1
644.0001.0000	FIELD OFFICE	LS	1
644.0002.0000	FIELD LABORATORY	LS	1
644.0008.0000	VEHICLE (ATV)	EACH	1
644.2002.0000	FIELD COMMUNICATIONS	CS	1
644.2007.0000	VEHICLE (LT/SUV)	EACH	3
644.2010.0000	NUCLEAR TESTING EQUIPMENT STORAGE SHED	LS	1
645.0001.0000	TRAINING PROGRAM, 3 TRAINEES/APPRENTICES	LH	2,500

GENERAL NOTES:

- REFERENCE RECORD OF SURVEY CONTROL DRAWING, KOTZEBUE TO CAPE BLOSSOM ROAD, ENVIRONMENTAL DOCUMENTATION, DATED 11/13/13 FOR HORIZONTAL AND VERTICAL CONTROL.
- TOPOGRAPHIC DATA IS BASED ON THE LIDAR SURVEY COLLECTED FROM 8/20/13 THROUGH 9/10/13. EXISTING CONDITIONS MAY VARY SLIGHTLY FROM TOPOGRAPHIC DATA ON THESE PLANS.
- UTILITY LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES FROM DAMAGE UNLESS OTHERWISE NOTED ON THE PLANS. THIS WORK IS SUBSIDIARY TO OTHER PAY ITEMS. COORDINATE POWER UTILITY RELOCATION WITH UTILITY COMPANIES PER SPECIFICATIONS SECTION 651.
- WETLAND AND UPLAND LOCATIONS ARE NOT SPECIFIED IN THESE PLANS. COORDINATION OF WORK WITHIN USACE AND ALL OTHER PERMITS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

TABLE OF ESTIMATING FACTORS		
ITEM NO.	PAY ITEM	FACTOR
203.0006.000A	BORROW, TYPE B, MODIFIED	1.80 TONS/CY
318.0002.0000	SEEDING	0.001 LBS/SF

TABLE OF LUMP SUM QUANTITIES			
ITEM NO.	PAY ITEM	UNIT	QUANTITY
501.0001.0000	CLASS A CONCRETE	CY	187
503.0001.0000	REINFORCING STEEL	LBS	55,696
503.0002.0000	EPOXY-COATED REINFORCING STEEL	LBS	1,941
504.0001.0000	STRUCTURAL STEEL	LBS	274,285

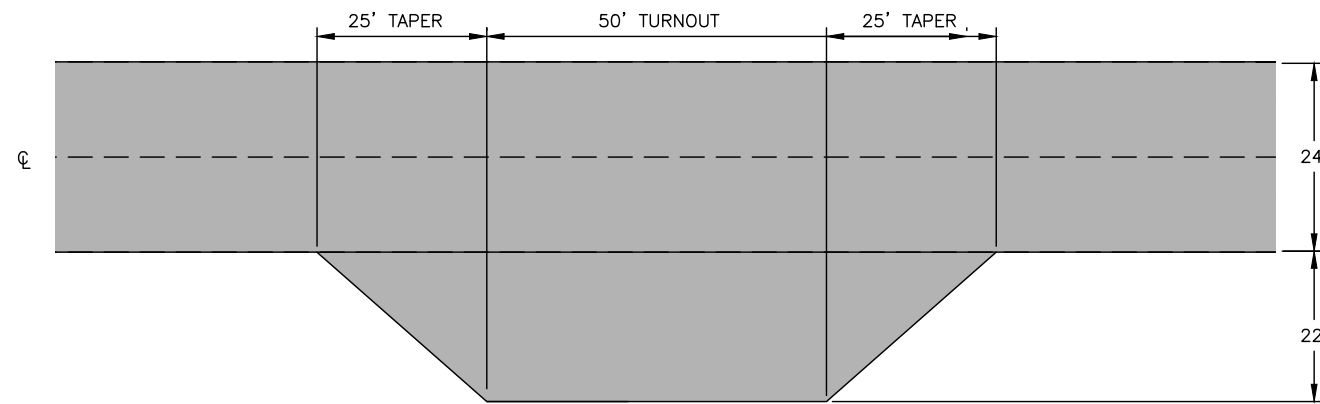
ABBREVIATIONS:

- | | | | |
|-----------|--------------------------|---------|---------------------------------|
| APPROX | APPROXIMATELY | PST | PERFORATED STEEL TUBE |
| C | CENTERLINE | PT | POINT OF TANGENCY |
| CY | CUBIC YARD | PVI | POINT OF VERTICAL INTERSECTION |
| E | EAST, EASTING | R | RADIUS |
| ELE, ELEV | ELEVATION | R.C.L | RIGHT OF CENTERLINE |
| FT. | FOOT, FEET | RT | RIGHT |
| H | HORIZONTAL | S | SOUTH |
| IE | INVERT ELEVATION | | |
| IN, " | INCH, INCHES | SQ. FT. | SQUARE FOOT |
| L | LENGTH OF CURVE | STA | STATION |
| L.C.L | LEFT OF CENTERLINE | T | TANGENT |
| LT | LEFT | TCE | TEMPORARY CONSTRUCTION EASEMENT |
| LVC | LENGTH OF VERTICAL CURVE | TS | TUBE STEEL |
| MAX | MAXIMUM | TYP | TYPICAL |
| MIN | MINIMUM | V | VERTICAL |
| N | NORTH, NORTHING | VPC | VERTICAL POINT OF CURVATURE |
| NO. | NUMBER | VPI | VERTICAL POINT OF INTERSECTION |
| NTS | NOT TO SCALE | VPT | VERTICAL POINT OF TANGENCY |
| O.C. | ON CENTER | W | WEST |
| PC | POINT OF CURVATURE | Ø | DIAMETER |
| POT | POINT ON TANGENT | | |

ESTIMATE OF QUANTITIES & GENERAL NOTES

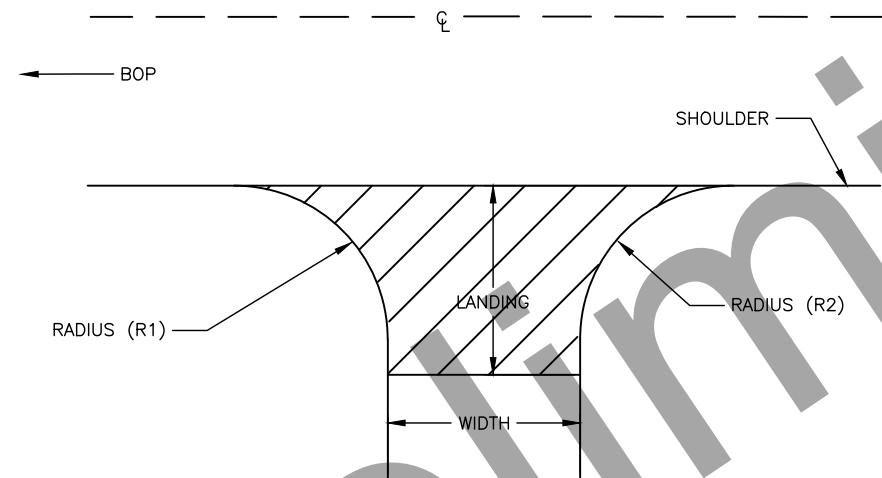


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002469/NFHwy00418	2022	D1	D1



DETAIL: TURNOUT PLAN VIEW
NTS

TURNOUT SUMMARY			
TURNOUT	BEGINNING STA	END STA	RT/LT
T-1	1317+00	1318+00	LT
T-2	1343+00	1344+00	RT
T-3	1360+44	1361+44	RT
T-4	1409+00	1410+00	RT
T-5	1482+11	1483+11	LT
T-6	1515+00	1514+00	RT
T-7	1541+00	1542+00	LT
T-8	1569+00	1570+00	RT
T-9	1592+00	1593+00	LT
T-10	1615+00	1616+00	RT



DETAIL: APPROACH
N.T.S.

APPROACH SUMMARY						
APPROACH	STATION	LT/RT	RADIUS (FEET)	WIDTH (FEET)	LANDING (FEET)	REMARKS
A-1	1271+05	RT	6/6	12	30	WINTER TRAIL ACCESS
A-2	1271+19	LT	6/6	12	30	WINTER TRAIL ACCESS
A-3	1359+32	LT	6/6	12	30	WINTER TRAIL ACCESS
A-4	1360+89	RT	6/6	12	30	WINTER TRAIL ACCESS
A-5	1409+50	RT	6/6	12	30	WINTER TRAIL ACCESS
A-6	1409+79	LT	6/6	12	30	WINTER TRAIL ACCESS
A-7	1498+34	RT	6/6	12	30	WINTER TRAIL ACCESS
A-8	1498+45	LT	6/6	12	30	WINTER TRAIL ACCESS

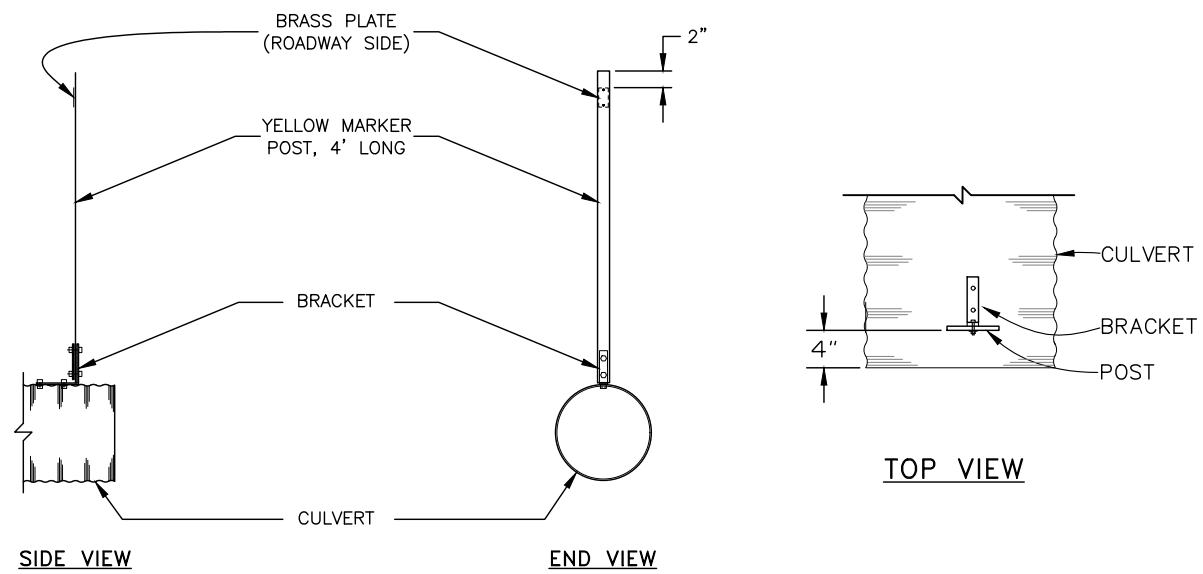
NOTES:

- CONSTRUCT TURNOUTS WITH SELECTED MATERIAL, TYPE B, 6 INCHES OF SURFACING, 3 PERCENT CROSS SLOPE, AND 2:1 SIDESLOPES. STATIONS IN THE TURNOUT SUMMARY TABLE REFERENCE BEGINNING OF TAPER THROUGH END OF TAPER.
- CONSTRUCT APPROACHES WITH SELECTED MATERIAL, TYPE B, 4 INCHES OF SURFACING, 3 PERCENT CROSS SLOPE, AND 2:1 SIDESLOPES OUT TO LANDING LENGTH SHOWN IN THE APPROACH SUMMARY TABLE.
- SMOOTHLY TRANSITION FROM END OF APPROACH LANDING TO MATCH EXISTING OVER A LENGTH OF 20 FEET, WITH SELECTED MATERIAL, TYPE B. MODIFY TRANSITION LENGTH AS NECESSARY TO NOT EXCEED A 6 PERCENT GRADE.
- APPROACH DIMENSIONS IN THE APPROACH SUMMARY TABLE ARE APPROXIMATE. MODIFY AND FIELD FIT APPROACHES AS DIRECTED.
- ALL WORK REQUIRED TO CONSTRUCT APPROACHES AND TURNOUTS ARE SUBSIDIARY TO THE CONTRACT ITEMS FOR THE MATERIAL(S) USED.

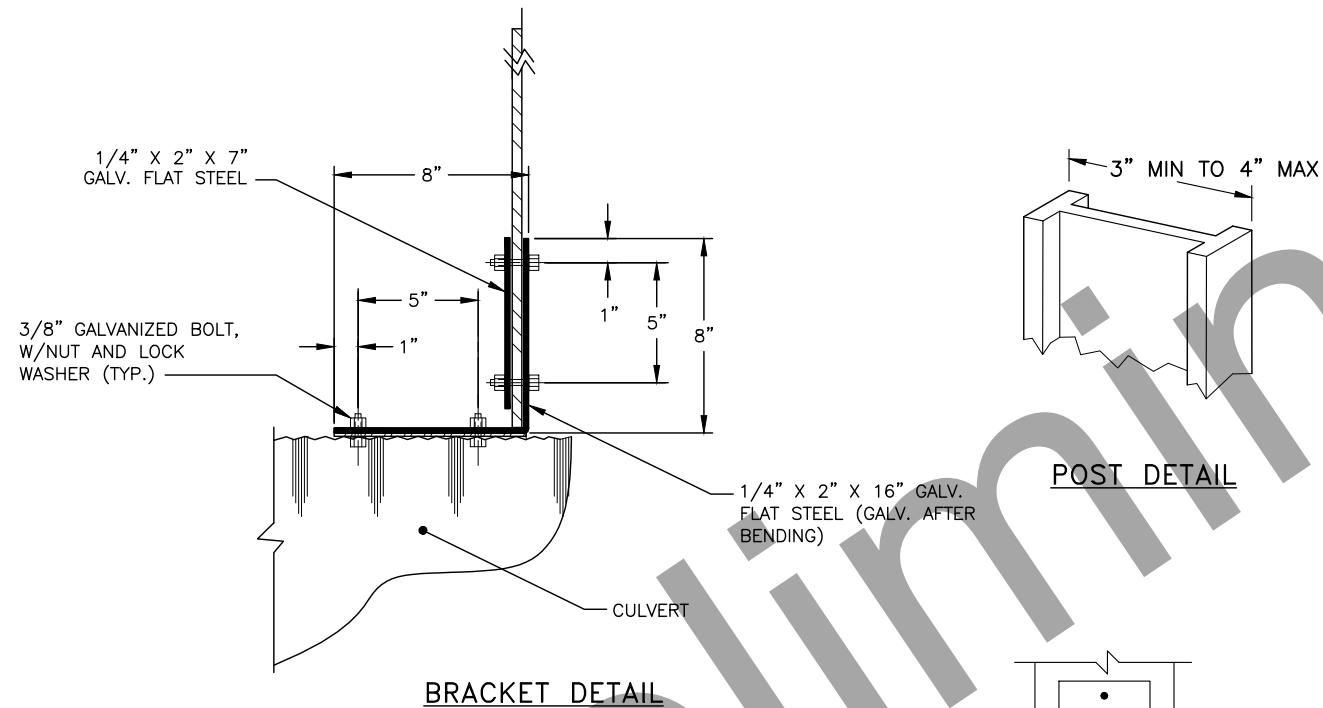
TURNOUT AND APPROACH
DETAILS AND SUMMARIES



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	E1	E2

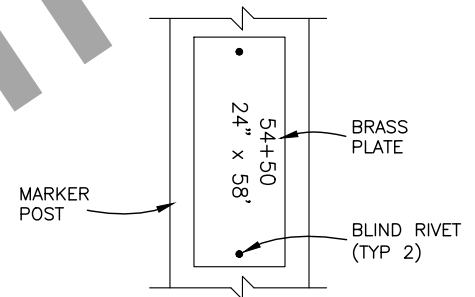


CULVERT MARKER POST DETAILS



BRACKET DETAIL

POST DETAIL



BRASS PLATE DETAIL

CULVERT MARKER POSTS NOTES:

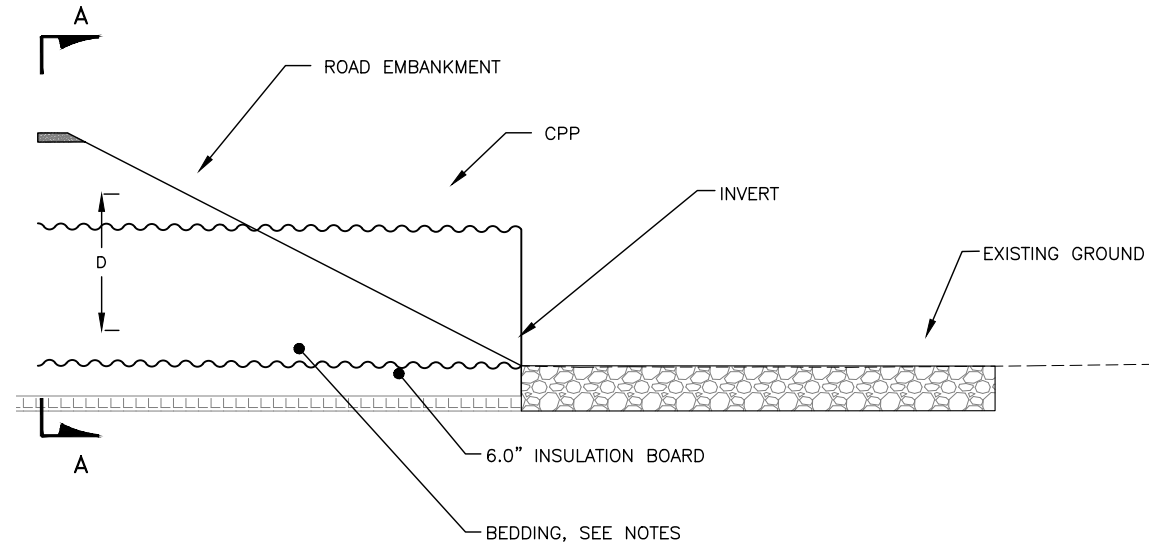
1. DRILL ALL BOLT HOLES. COAT HOLES WITH ZINC RICH PAINT.

STATION AND SIZE OF PIPE, AND PROJECT NUMBER TO BE STAMPED USING LETTERS A MINIMUM OF 1/4" HIGH INTO A 2" x 4" x .064" THICK BRASS PLATE. FASTEN PLATE TO THE SIDE FACING THE ROADWAY WITH TWO 1/8" DIA. BLIND RIVETS.

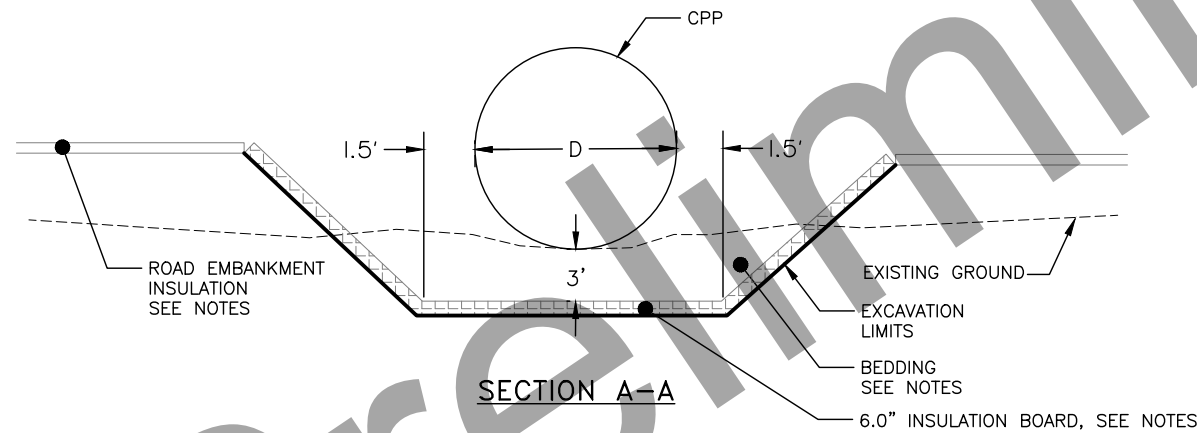
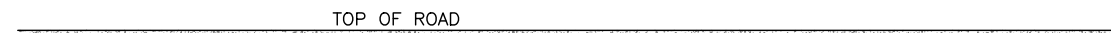
CULVERT DETAILS &
SUMMARY 1 OF 2



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	E2	E2



CULVERT DETAIL



CULVERT SUMMARY				
PIPE NO.	PROJECT STATION	24" CORRUGATED POLYETHYLENE PIPE, NEW PIPE LENGTH (LF)	SKEW	CULVERT MARKER POST (EA)
P-1	1299+77	38	3.81 Deg LT AH	2
P-2	1308+66	57	21.09 Deg RT AH	2
P-3	1311+16	61	29.67 Deg LT AH	2
P-4	1320+57	55	13.16 Deg RT AH	2
P-5	1324+14	57	34.97 Deg RT AH	2
P-6	1325+93	61	4.06 Deg RT AH	2
P-7	1332+88	58	1.04 Deg RT AH	2
P-8	1337+46	52	2.09 Deg RT AH	2
P-9	1338+92	45	0.44 Deg LT AH	2
P-10	1339+45	46	0.85 Deg RT AH	2
P-11	1341+41	48	1.62 Deg LT AH	2
P-12	1361+19	62	38.36 Deg RT AH	2
P-13	1366+02	49	13.62 Deg LT AH	2
P-14	1373+44	58	38.53 Deg LT AH	2
P-15	1380+29	49	15.74 Deg RT AH	2
P-16	1396+33	57	16.46 Deg RT AH	2
P-17	1402+11	61	33.6 Deg RT AH	2
P-18	1407+37	76	42.56 Deg RT AH	2
P-19	1416+91	52	0	2
P-20	1437+02	46	0	2
P-21	1457+24	86	31.91 Deg RT AH	2
P-22	1462+60	47	0	2
P-23	1470+97	47	0	2
P-24	1472+31	122	63.85 Deg RT AH	2
P-25	1480+33	55	4.38 Deg LT AH	2
P-26	1491+75	50	2.87 Deg LT AH	2
P-27	1508+57	50	12.12 Deg RT AH	2
P-28	1524+64	55	35.03 Deg RT AH	2
P-29	1525+90	46	0.95 Deg LT AH	2
P-30	1527+24	46	0.21 Deg RT AH	2
P-31	1531+80	53	20.33 Deg LT AH	2
P-32	1538+98	58	26.98 Deg RT AH	2
P-33	1540+94	51	9.13 Deg LT AH	2
P-34	1552+92	48	3.79 Deg LT AH	2
P-35	1557+34	43	0.40 Deg LT AH	2
P-36	1566+05	47	0.43 Deg LT AH	2
P-37	1579+57	88	53.18 Deg RT AH	2
P-38	1586+09	54	0	2
P-39x	1599+52	71	0.40 Deg LT AH	2
P-40	1602+15	50	15.24 Deg RT AH	2
P-41	1615+06	51	6.33 Deg RT AH	2
	TOTAL	2306		

CULVERT NOTES:

- CONSTRUCT BEDDING WITH SELECTED MATERIAL, TYPE B. SEE SPEC SECTION 204.
- EXTEND INSULATION BOARD TO CULVERT ENDS. FIELD FIT INSULATION BOARD AROUND CULVERTS AS APPROVED.
- TIE 6.0" CULVERT INSULATION BOARD INTO 4" ROAD EMBANKMENT INSULATION BOARD AT A SLOPE NOT STEEPER THAN 3:1, AS APPROVED.
- CONSTRUCT CULVERTS, INCLUDING INSULATION BOARD, BEDDING AND BACKFILL, ENTIRELY IN FROZEN CONDITIONS.
- STATIONING AND SKEW FOR CULVERTS ARE APPROXIMATE. STAKE CULVERTS TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.
- MINIMIZE DISTURBANCE TO THE VEGETATIVE MAT UNLESS APPROVED BY THE ENGINEER, AROUND CULVERT ENDS, TO ENSURE PROPER DRAINAGE. THIS WORK IS SUBSIDIARY TO 603 SERIES PAY ITEMS.
- MODIFY EMBANKMENT THICKNESS AND WIDTH AS NECESSARY TO MAINTAIN MINIMUM COVER OF 2 FEET OVER LENGTH OF PIPE.
- DE-WATERING FOR CULVERT INSTALLATION WILL NOT BE MEASURED FOR PAYMENT AND IS SUBSIDIARY TO 603 SERIES PAY ITEMS.
- ALL CULVERTS SHALL HAVE A MINIMUM CAMBER OF 1% OF THE LENGTH OF THE PIPE, UNLESS THE PROJECT ENGINEER DIRECTS OTHERWISE.

CULVERT DETAILS & SUMMARY 1 OF 2



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHWY00718	2022	Q1	Q1

ESCP NOTES:

1. CONTROLS

A. TEMPORARY EROSION AND SEDIMENT CONTROLS

- I. SEDIMENT CONTROLS AT CULVERT INLETS AND OUTLETS.
- II. SEDIMENT CONTROLS INSTALLED AT THE TOE OF SLOPE WHERE SELECTED MATERIAL, TYPE B OR IS PLACED.
- III. PERIMETER PROTECTION TO BE PLACED AROUND ANY AREAS OF EXPOSED ERODIBLE SOILS. PROVIDE PERIMETER PROTECTION AT THE TOE CONSISTING OF ONE OF THE FOLLOWING CONTROLS: 20-FOOT VEGETATIVE BUFFER BEYOND TEMPORARY WORK AREA, GRAVEL, FIBER ROLL, SILT FENCE, OR EQUIVALENT APPROVED BY THE ENGINEER. PERIMETER PROTECTION WILL BE PROVIDED FOR ALL SLOPES NOT HAVING ESTABLISHED PERMANENT STABILIZATION.
- IV. WETLANDS ADJACENT TO DISTURBED GROUND MUST BE PROTECTED.
- V. ALL IN-WATER WORK SHALL BE ISOLATED FROM FLOWING WATER.
- VI. ALL CONCRETE WASHOUTS WILL BE DISPOSED OF IN A LINED CONTAINMENT AREA DESIGNATED IN THE CONTRACTORS SWPPP.

B. STABILIZATION

I. SEASONAL SUSPENSION OF WORK.

1. THE CONTRACTOR SHALL STABILIZE ERODIBLE SLOPES PRIOR TO SEASONAL SUSPENSION OF WORK. SLOPE STABILIZATION SHALL BE MAINTAINED THROUGHOUT SPRING THAW UNTIL EARTH DISTURBING ACTIVITIES ARE RESUMED.
2. PROVIDE PERIMETER PROTECTION AT THE TOE CONSISTING OF ONE OF THE FOLLOWING CONTROLS: 25-FOOT VEGETATIVE BUFFER BEYOND TEMPORARY WORK AREA, GRAVEL OR SNOW BERM, FIBER ROLL, OR SILT FENCE. PERIMETER PROTECTION WILL BE PROVIDED FOR ALL SLOPES NOT HAVING ESTABLISHED PLANT GROWTH.
3. ALL WORK DONE AFTER SEEDING CUT-OFF DATES AND ALL AREAS WHERE SEED IS NOT ESTABLISHED ON DATE OF SEASONAL SUSPENSION OF WORK SHALL BE MULCHED AND TACKIFIED FOR SEASONAL SHUTDOWN.
4. MULCH USED FOR SEASONAL SLOPE STABILIZATION MUST BE WARRANTIED BY THE MANUFACTURER FOR 6 MONTHS AFTER APPLICATION AND BE USED WITH TACKIFIERS.
5. ALL DRAINAGE PIPE INLETS WILL BE PROTECTED BY ENCIRCLING THE INLET WITH LOW PROFILE FIBER ROLLS, COMPOST ROLLS, SYNTHETIC BARRIERS, OR EQUIVALENT.

II. PERMANENT

1. SIDESLOPE SEEDING WITH 70% ESTABLISHED GROWTH AND MAINTAINING EXISTING VEGETATION WILL BE THE PRIMARY PERMANENT STABILIZATION.
2. DISTURBED GROUND WILL BE STABILIZED BY PERMANENT SEEDING, MULCHING, AND THE APPLICATION OF TACKIFIERS.

2. ADDITIONAL NOTES

- A. VEGETATIVE BUFFER SHALL SERVE AS THE PRIMARY PERIMETER CONTROL AT SLOPE TOES. ALTERNATIVE PERIMETER CONTROL MEASURES WILL BE REQUIRED IN AREAS WHERE A 20' VEGETATIVE BUFFER IS NOT AVAILABLE.
- B. PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES IN THE AREA OF WORK.
- C. THE CONTRACTOR WILL PROVIDE EROSION AND SEDIMENT CONTROL (ESC) MEASURES IN ACCORDANCE WITH THEIR SWPPP. DOT&PF'S PROJECT ENGINEER MAY REQUIRE ADDITIONAL ESC MEASURES AS FIELD CONDITIONS DICTATE.

TEMPORARY WORK AREA NOTES:

1. AN 18-FOOT TEMPORARY WORK AREA IS PERMITTED ALONG THE ROAD CORRIDOR BEYOND THE DESIGN TOE-OF-SLOPE FOR EQUIPMENT ACCESS AND SNOW REMOVAL. FOR CULVERTS THIS TEMPORARY WORK AREA IS 25' BEYOND THE CULVERT ENDS. SEE PERMIT CONDITIONS.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID DAMAGING AND PLACING ANY FILL MATERIAL WITHIN THE TEMPORARY WORK AREA, INCLUDING RESIDUAL IMPACTS AND FILL ASSOCIATED WITH SNOW REMOVAL EFFORTS.
3. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL MARK THE BOUNDARIES OF PERMIT AREAS AS DESCRIBED IN SPEC SECTION 642.
4. EQUIPMENT SHALL NOT BE OPERATED OR PARKED BEYOND THE BOUNDARY.
5. CONSTRUCTION MATERIALS AND SUPPLIES MAY NOT BE STORED OR STAGED BEYOND THIS BOUNDARY.
6. NO TEMPORARY OR PERMANENT FILL SHALL BE PLACED BEYOND THIS BOUNDARY.

PROJECT SITE-SPECIFIC CONDITIONS

1. DRAINAGE FROM THE ROADWAY IS TO THE SOUTH AND WEST TOWARD THE KOTZEBUE SOUND. SURFACE WATER OVERLAYS THE LOWLAND TUNDRA IN THE SUMMER. THE AREA PAST THE EXISTING TOE IS WETLANDS.
2. TYPE OF VEGETATION: CONTAINS BUT IS NOT LIMITED TO GRASS, SEDGES, AND DWARF WILLOWS.

PROJECT AREAS

TOTAL PROJECT AREA: 263 ACRES (ROW EXTENTS)
TOTAL DISTURBED: 39.2 ACRES
USACE (WETLANDS & WATERS OF THE U.S.): 39.2 ACRES

PERCENTAGE IMPERVIOUS AREA BEFORE CONSTRUCTION: 0%
RUNOFF COEFFICIENT BEFORE CONSTRUCTION: ~0.16
PERCENTAGE IMPERVIOUS AREA AFTER CONSTRUCTION: 50%
RUNOFF COEFFICIENT AFTER CONSTRUCTION: ~0.355

3. ESSENTIAL FISH HABITAT IS PRESENT WITHIN PROJECT ROW LIMITS AT SADIE CREEK. FISH SPECIES INCLUDE: STICKLEBACKS, PIKE, AND WHITE FISH.
4. IMPAIRED WATERS: NONE
5. BASED ON USFWS AND ADFG DATA: POLAR BEAR, STELLER EIDER AND SPECTACLED EIDERS ENDANGERED SPECIES ZONE 7
6. NO HISTORIC PROPERTIES: SHPO CONCURRENCE IN APPENDIX B

RUN-OFF COEFFICIENTS

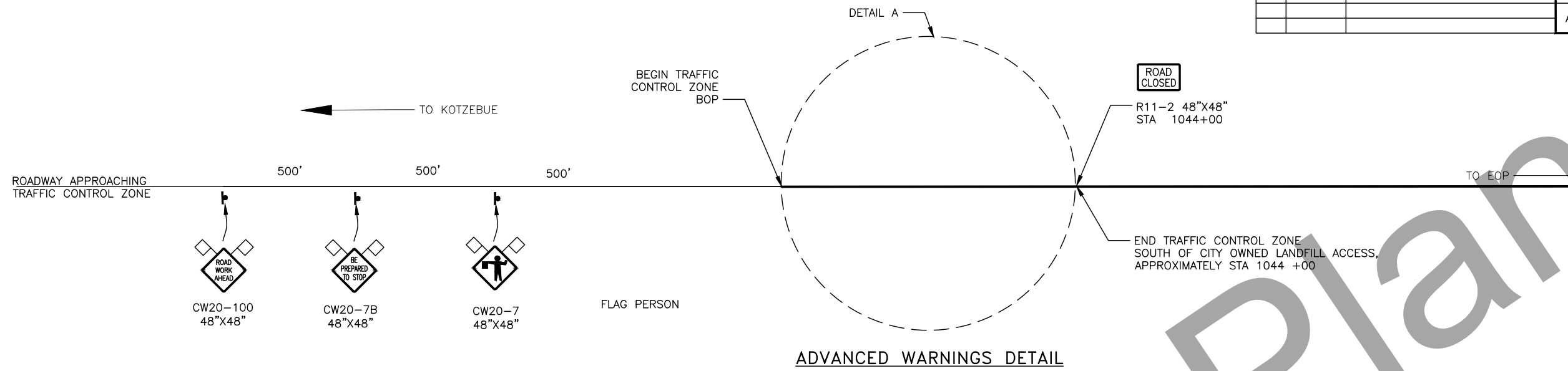
TYPE OF SURFACE	RUNOFF COEFFICIENT (C)
PAVED	0.7-0.9
GRAVEL ROADWAY OR SHOULDERS	0.4-0.6
CUT, FILL SLOPES	0.5-0.7
GRASSED AREAS	0.1-0.7
WOODS	0.1-0.3

NOTE:

FROM HYDRAULIC CIRCULAR #12, "DRAINAGE OF HIGHWAY PAVEMENTS", MARCH 1984, PAGE 12. FOR FLAT SLOPES AND/OR PERMEABLE SOILS, USE LOWER VALUE. FOR STEEP SLOPES AND/OR IMPERMEABLE SOILS, USE HIGHER VALUES.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	T1	T1



ADVANCED WARNINGS DETAIL

NOTES:

1. THE CONTRACTOR SHALL PREPARE FORMAL TRAFFIC CONTROL PLANS BASED ON THE GENERAL TRAFFIC CONTROL SCHEME SHOWN ON THIS SHEET AS COORDINATED WITH ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL SUBMIT FOR ENGINEER APPROVAL PER 643-1.03.
2. ADVANCED WARNINGS MUST BE UTILIZED ALONG HILLSIDE DRIVE AS WELL AS THE ROAD HEADING SOUTH FROM THE AIRPORT.
3. SPEED LIMIT REDUCTIONS MUST BE IN ACCORDANCE WITH ADOT&PF POLICY AND PROCEDURE NUMBER 05.05.20.
4. CONTRACTOR MUST MAINTAIN PUBLIC ACCESS TO THE CITY LANDFILL AT ALL TIMES. CONTRACTOR MAY CLOSE THE ROAD TO PUBLIC ACCESS BEYOND THE CITY LANDFILL, EXCEPT PER NOTES 5 AND 6.
5. CONTRACTOR MUST PROVIDE ACCESS FOR UNITED STATES DEPARTMENT OF THE AIR FORCE (USAF) PERSONNEL TO USAF LANDS WITHIN THE PROJECT AREA.
6. CONTRACTOR MUST PROVIDE ACCESS FOR KOTZEBUE ELECTRIC ASSOCIATION (KEA), GCI, KOTZ RADIO, AND ASSOCIATED PERSONNEL AS NEEDED, WITHIN AND THROUGH THE PROJECT AREA.
7. CONTRACTOR MUST MAINTAIN TEMPORARY ACCESS TO ALL EXISTING APPROACHES IN THE PROJECT AREA UNTIL FINAL APPROACH GRADE IS CONSTRUCTED, AS DIRECTED BY THE ENGINEER.



PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
H:\Projects\Communities\Kotzebue\76884_Kotz_to_Cape_Blossom_Stage_1\04_P&E\04_Plans\1_Plat\76884_T-11_Mon_Sep/19/22_12:59pm

TRAFFIC CONTROL PLAN



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	F1	F14

LEGEND

- SURFACE FLOW DIRECTION
- UPLANDS
- OUTLET CONTROL
- INLET CONTROL

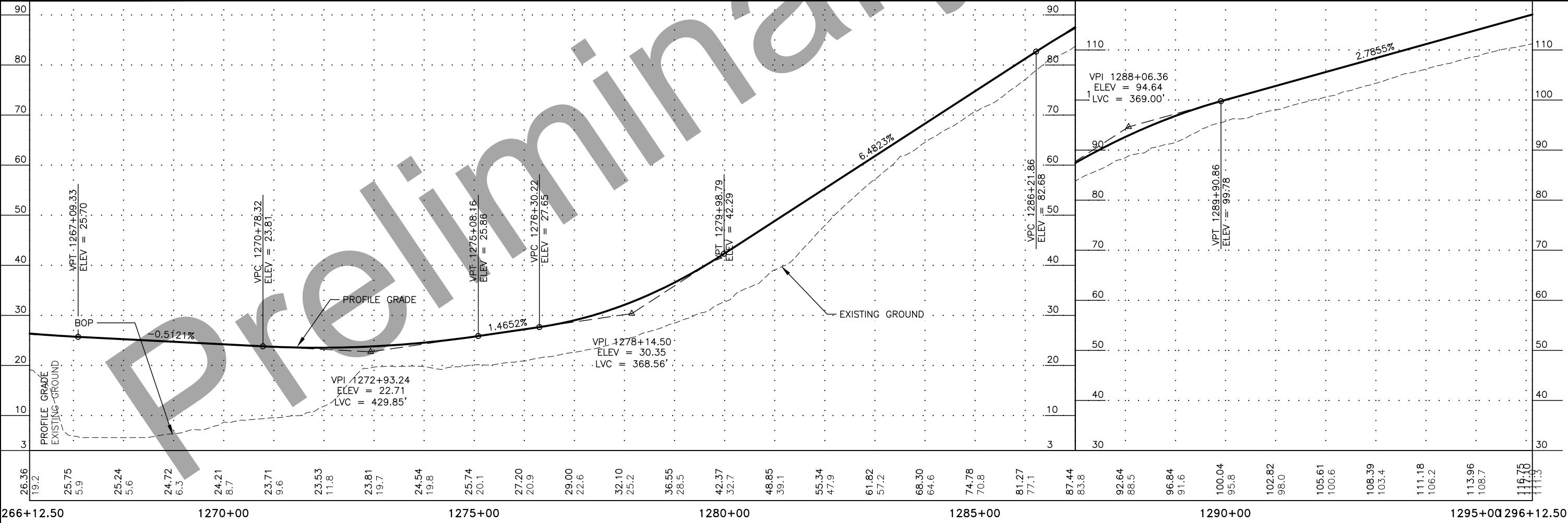
BOP STA 1266+39.50
 N: 4685324.849
 E: 1566848.805

"O"1274+71.75 PI
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 $D = 8'09''01''$
 $T = 77.56'$
 $L = 154.49'$
 $R = 703.00'$



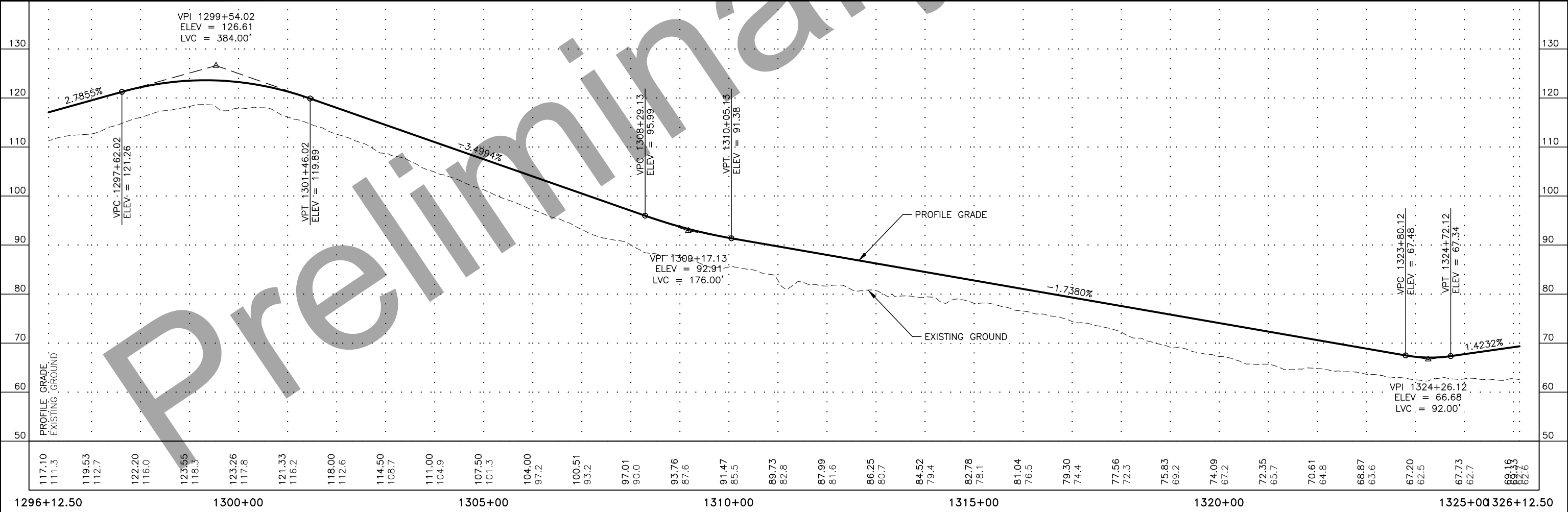
CONTROL SUMMARY

DESCRIPTION	STATION "O"	NORTHING	EASTING
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EOP	1632+61	4653288.270	1578331.177



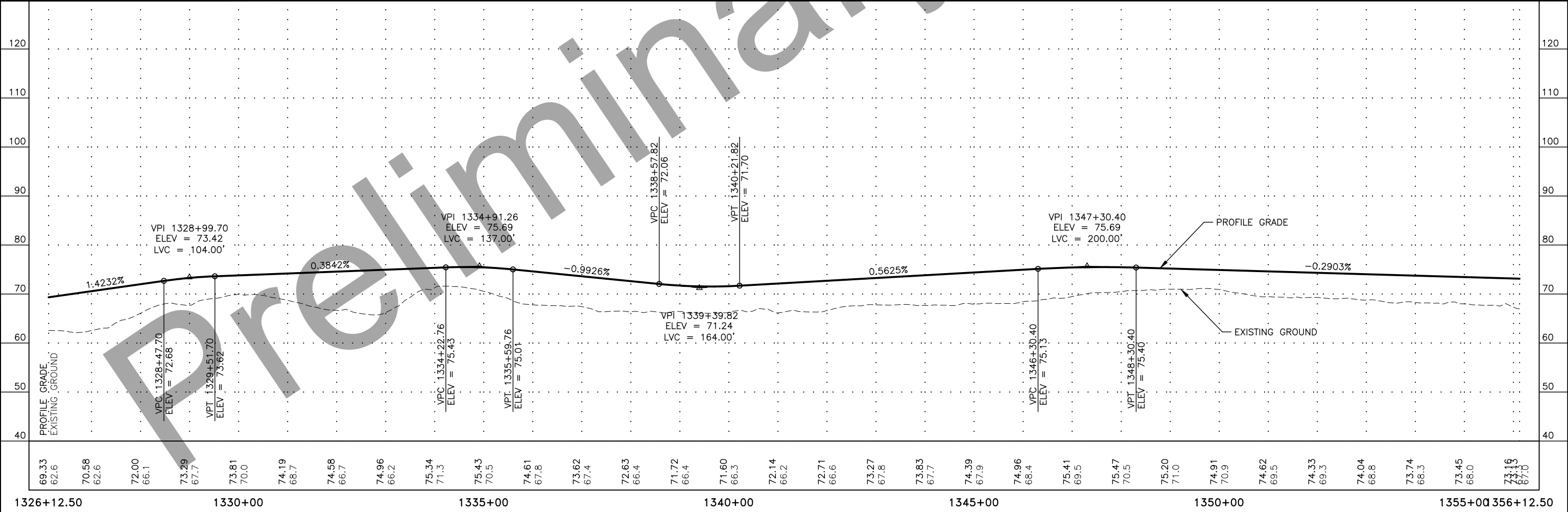
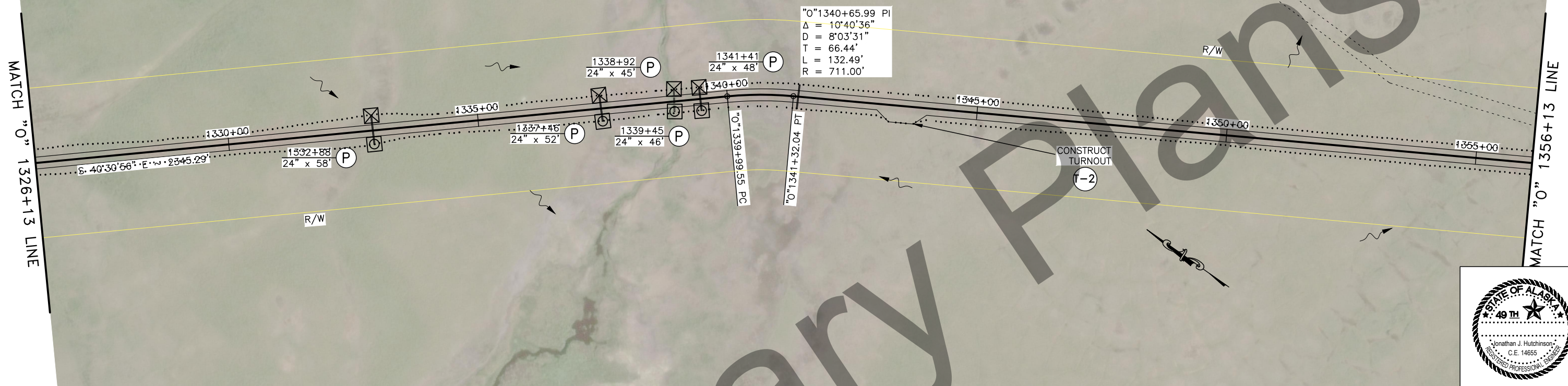
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFWY00718	2022	F2	F14



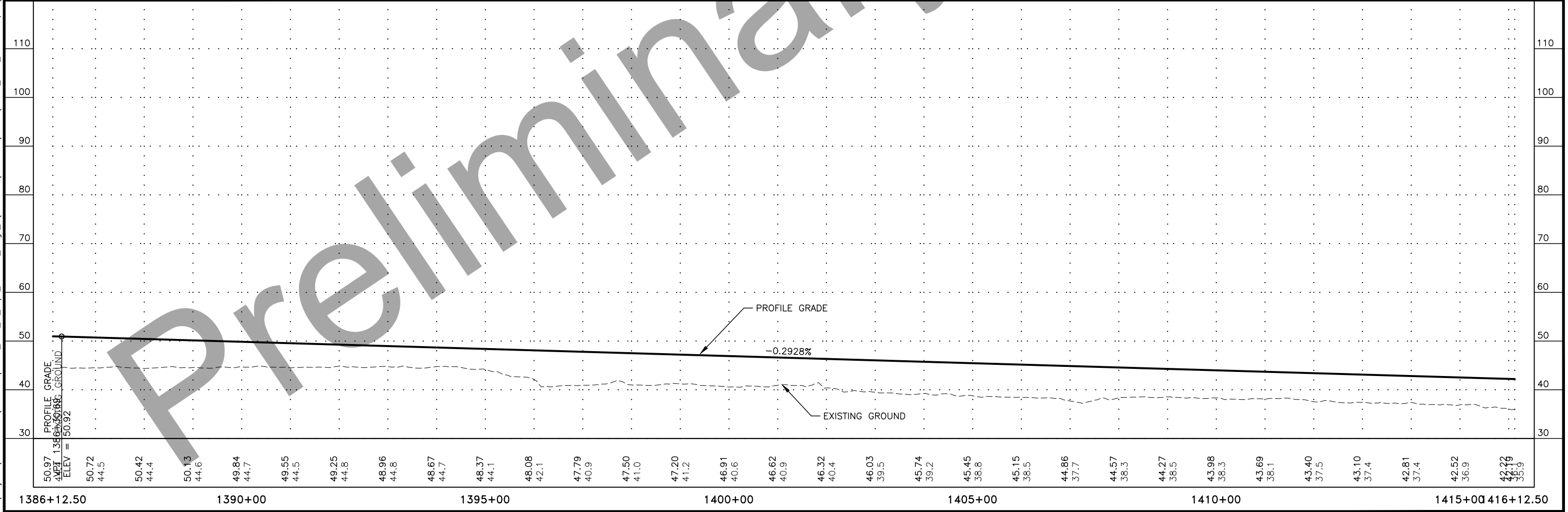
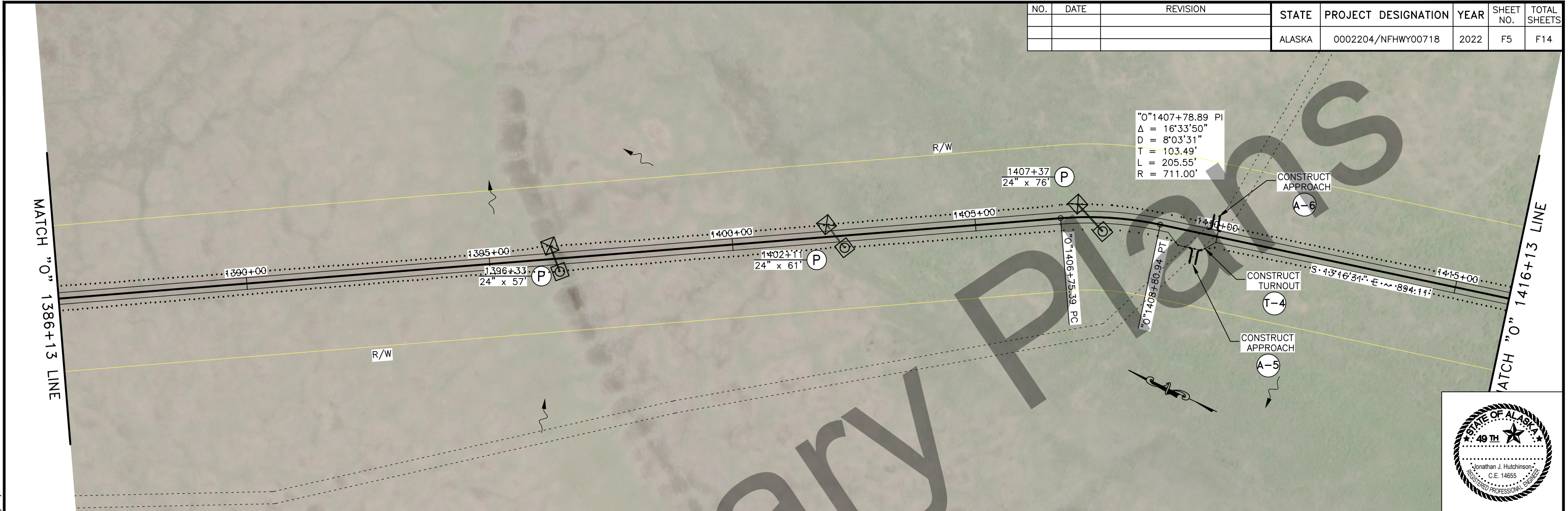
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			ALASKA	0002204/NFHWY00718	2022	F3	F14



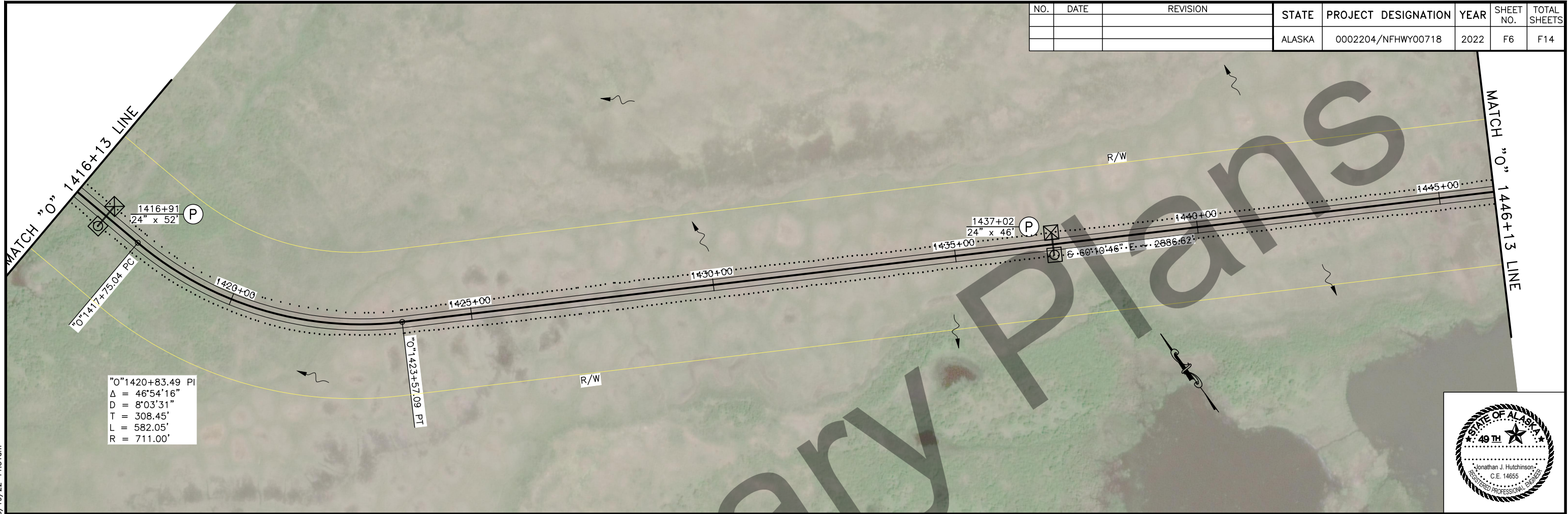
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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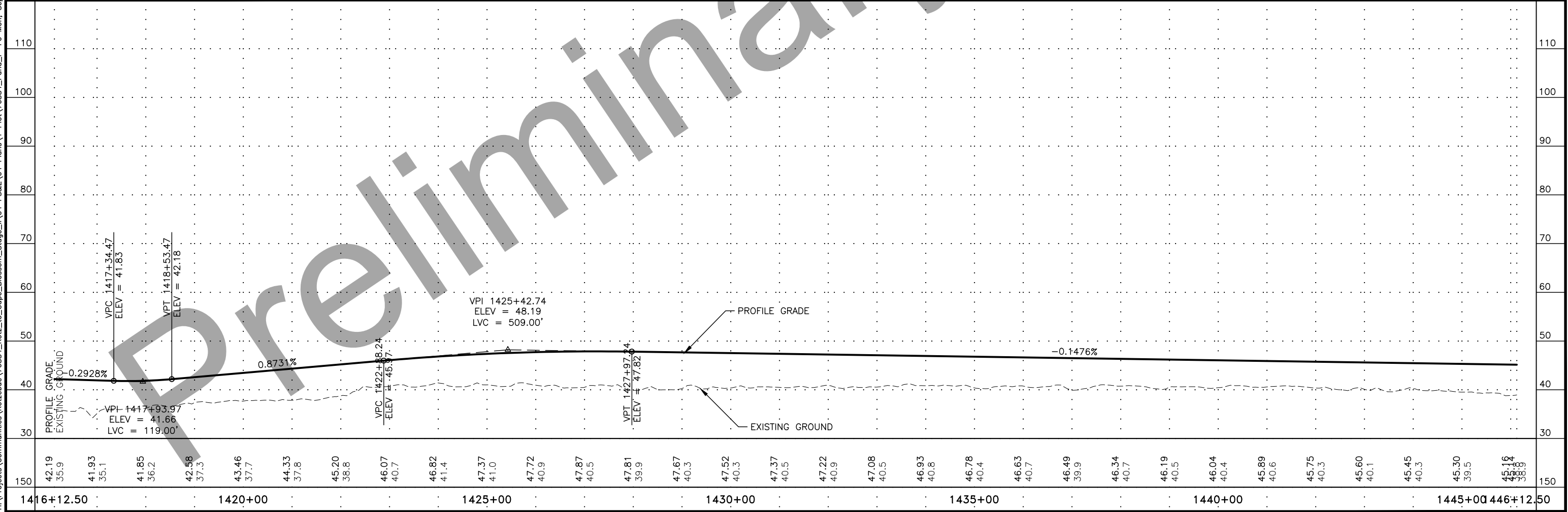


PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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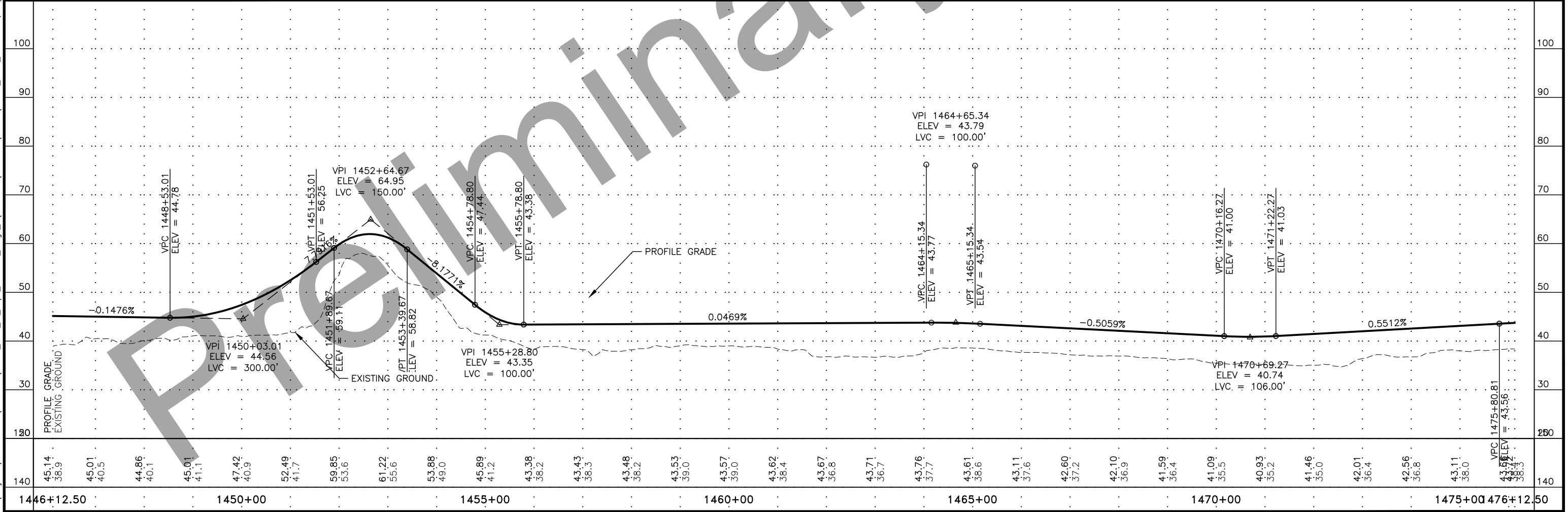
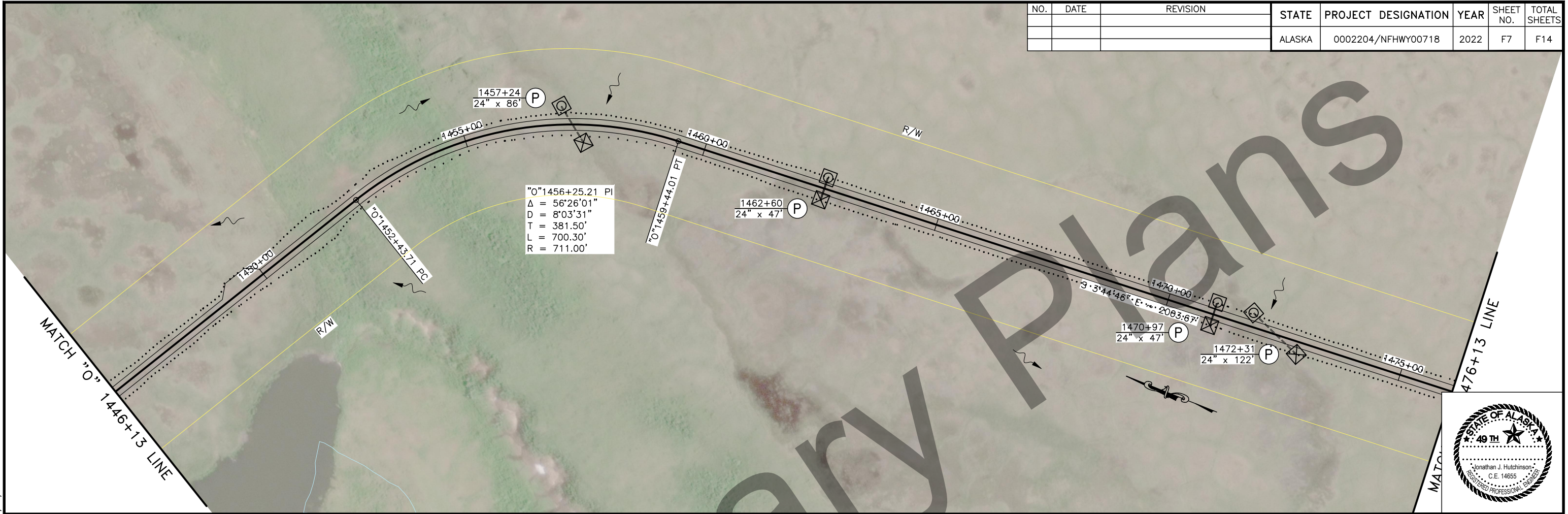
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	F6	F14



"O"1420+83.49 PI
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 $R = 711.00'$

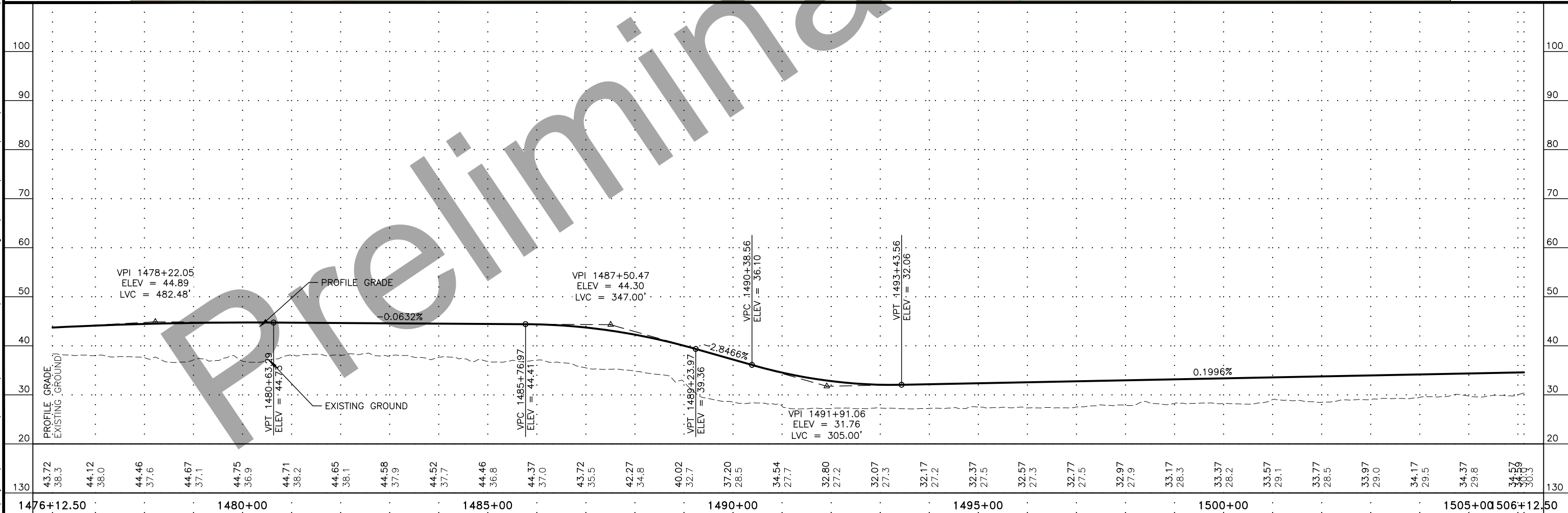
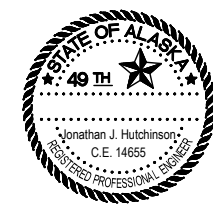
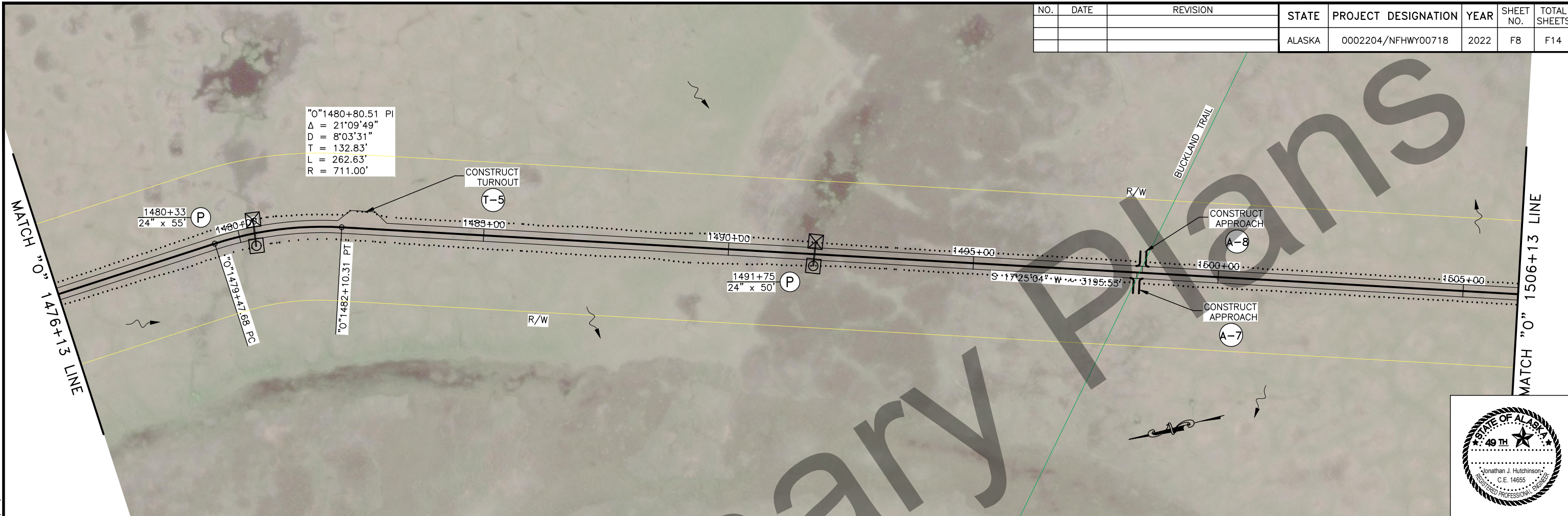


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			ALASKA	0002204/NFHWY00718	2022	F7	F14



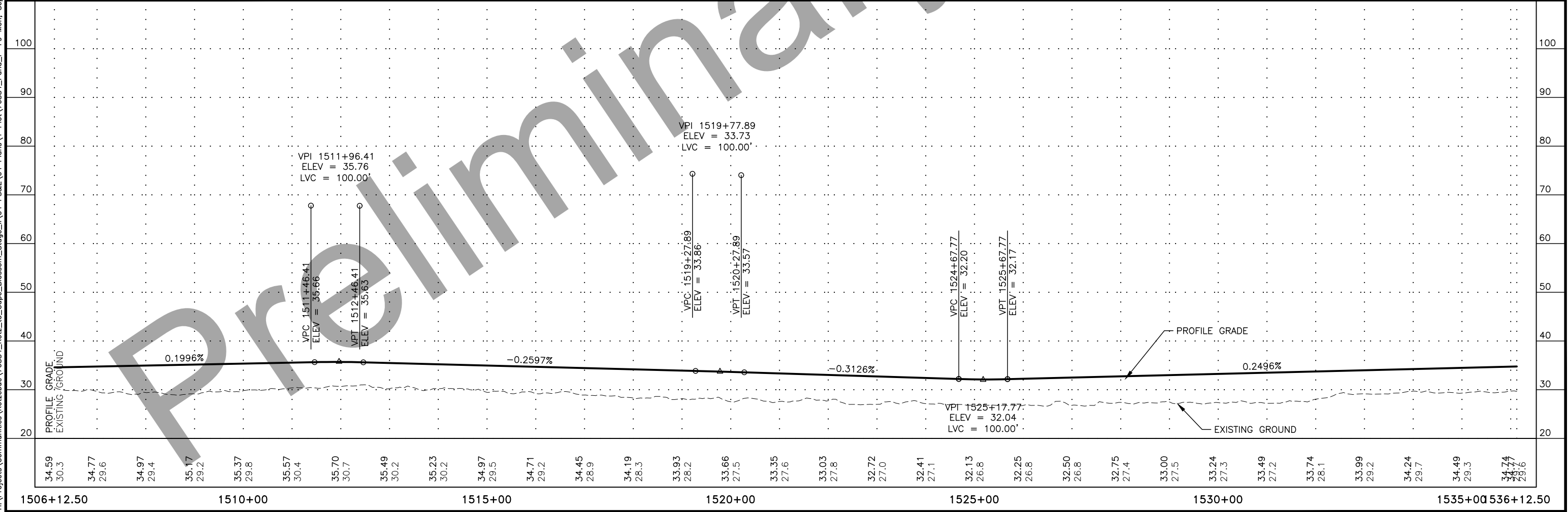
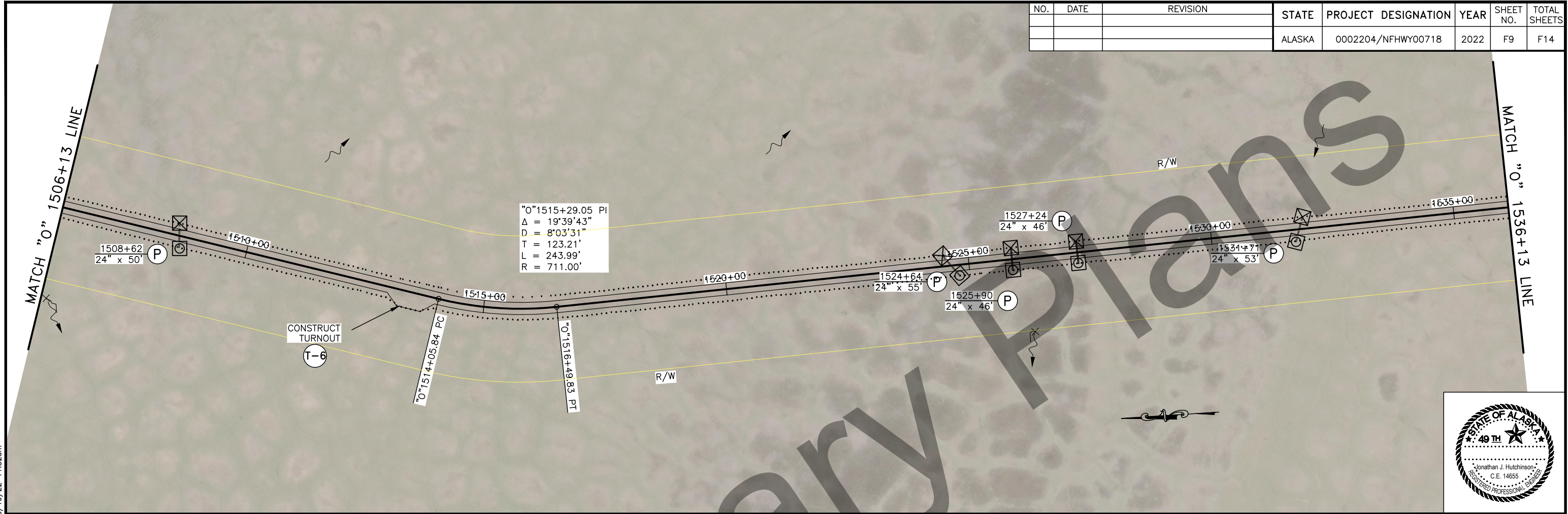
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHWW00718	2022	F8	F14



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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	F9	F14



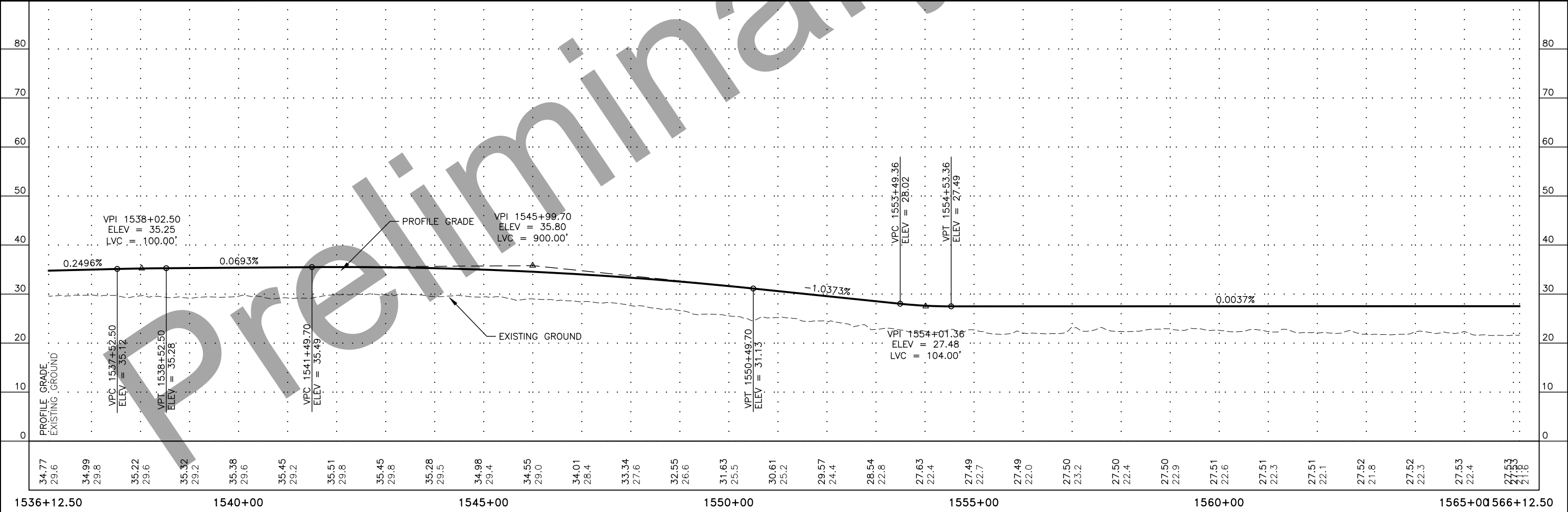
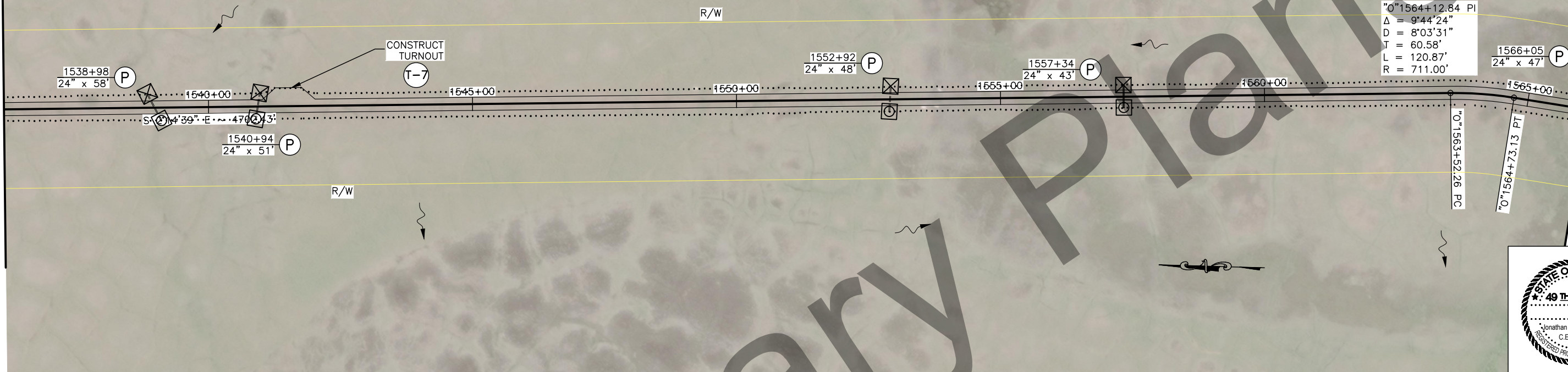
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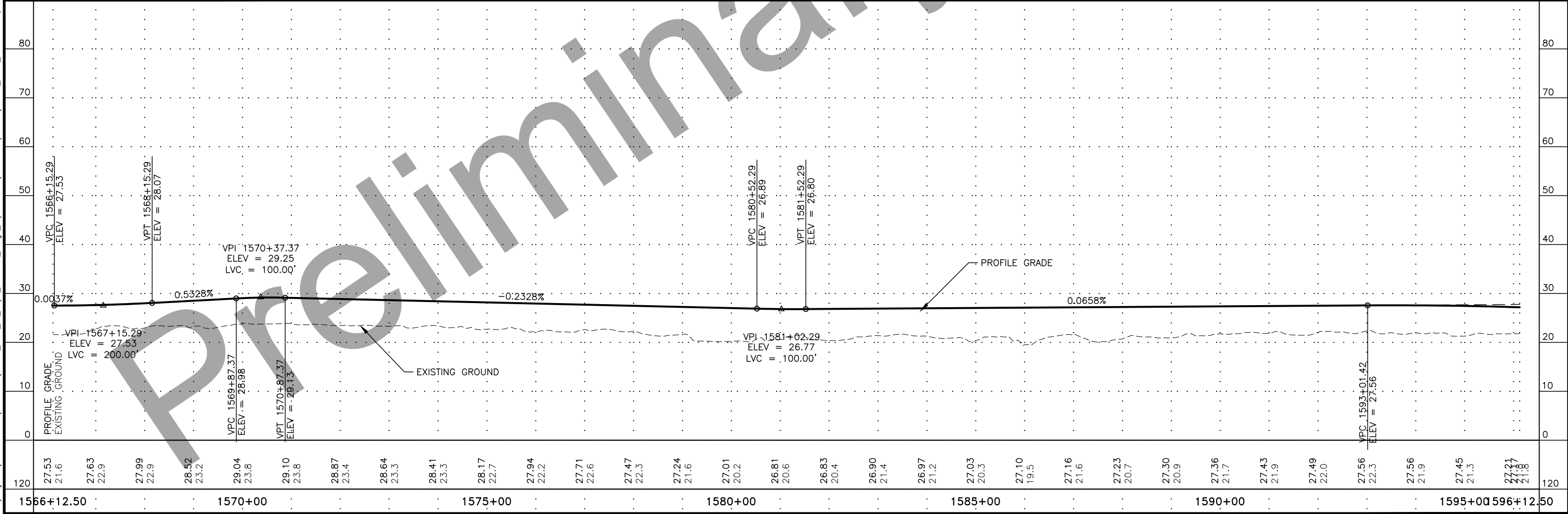
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MATCH "O" 1536+13 LINE

MATCH "O" 1566+13 LINE

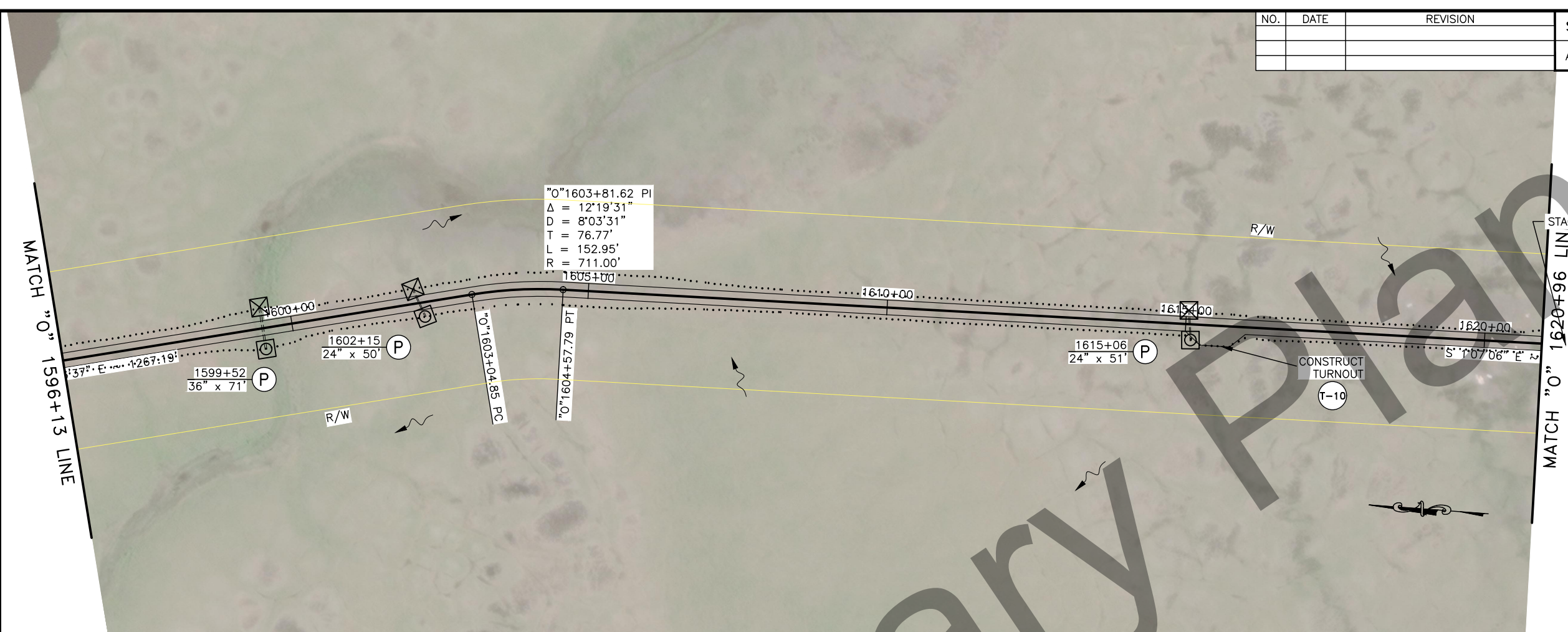


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			ALASKA	0002204/NFHWY00718	2022	F11	F14



PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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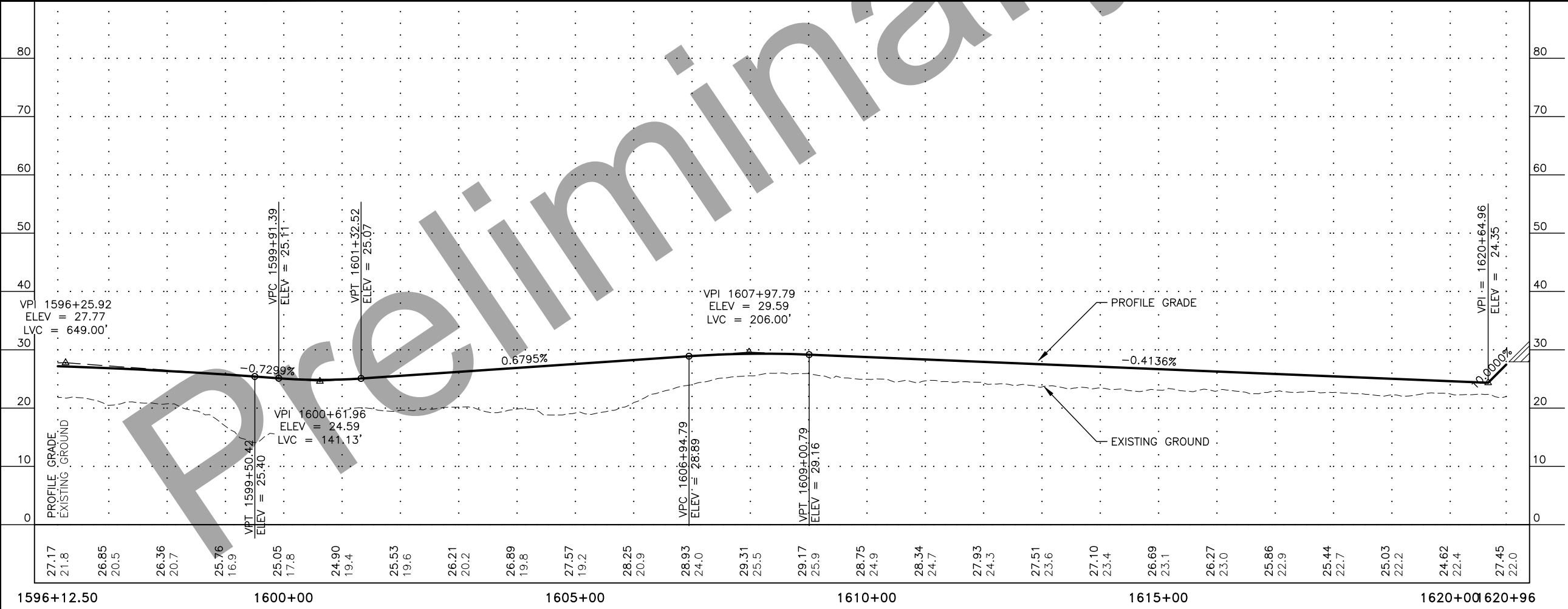
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			ALASKA	0002204/NFHwy00718	2022	F12	F14



MATCH "O" 1596+13 LINE

MATCH "O" 1620+96 LINE

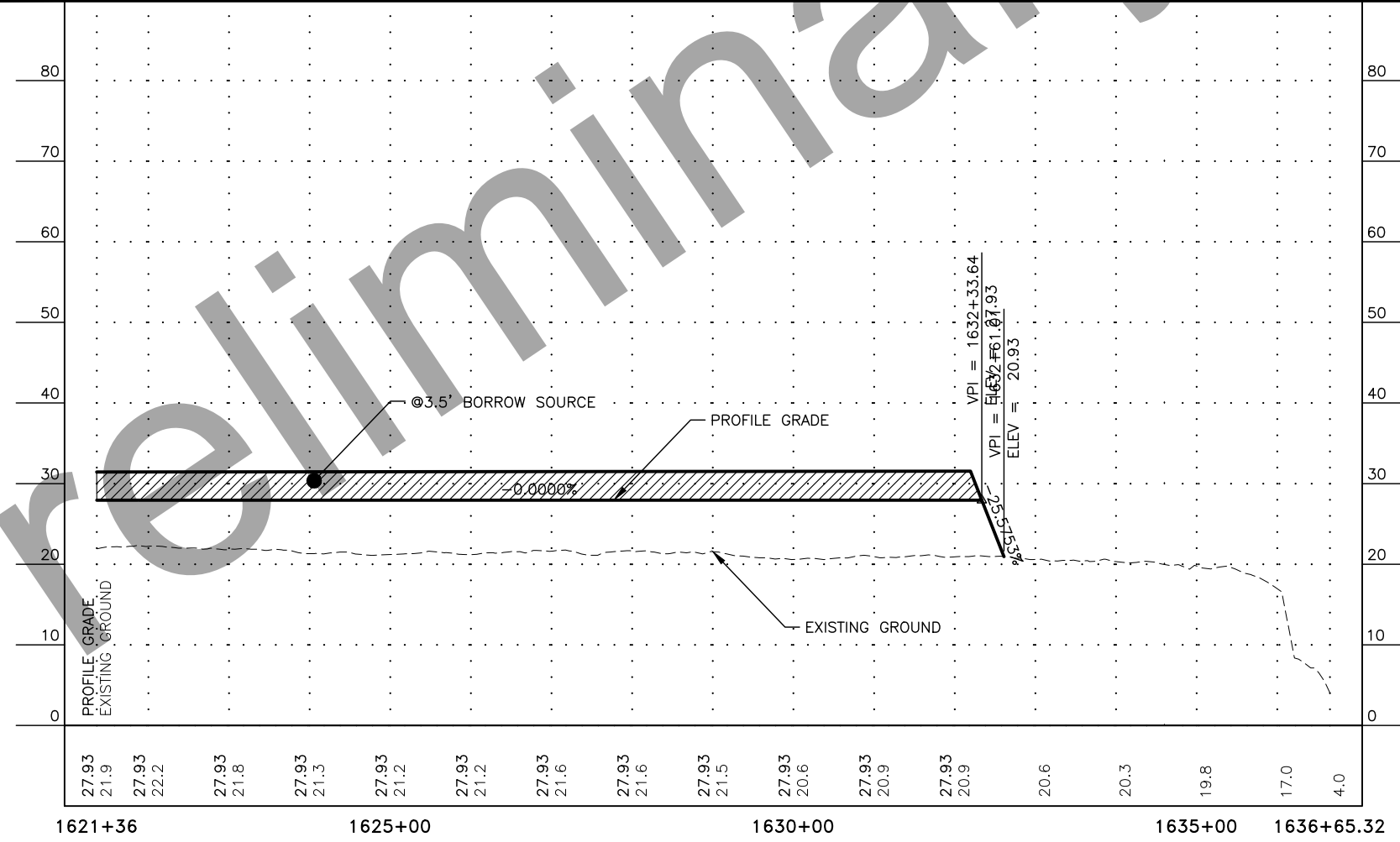
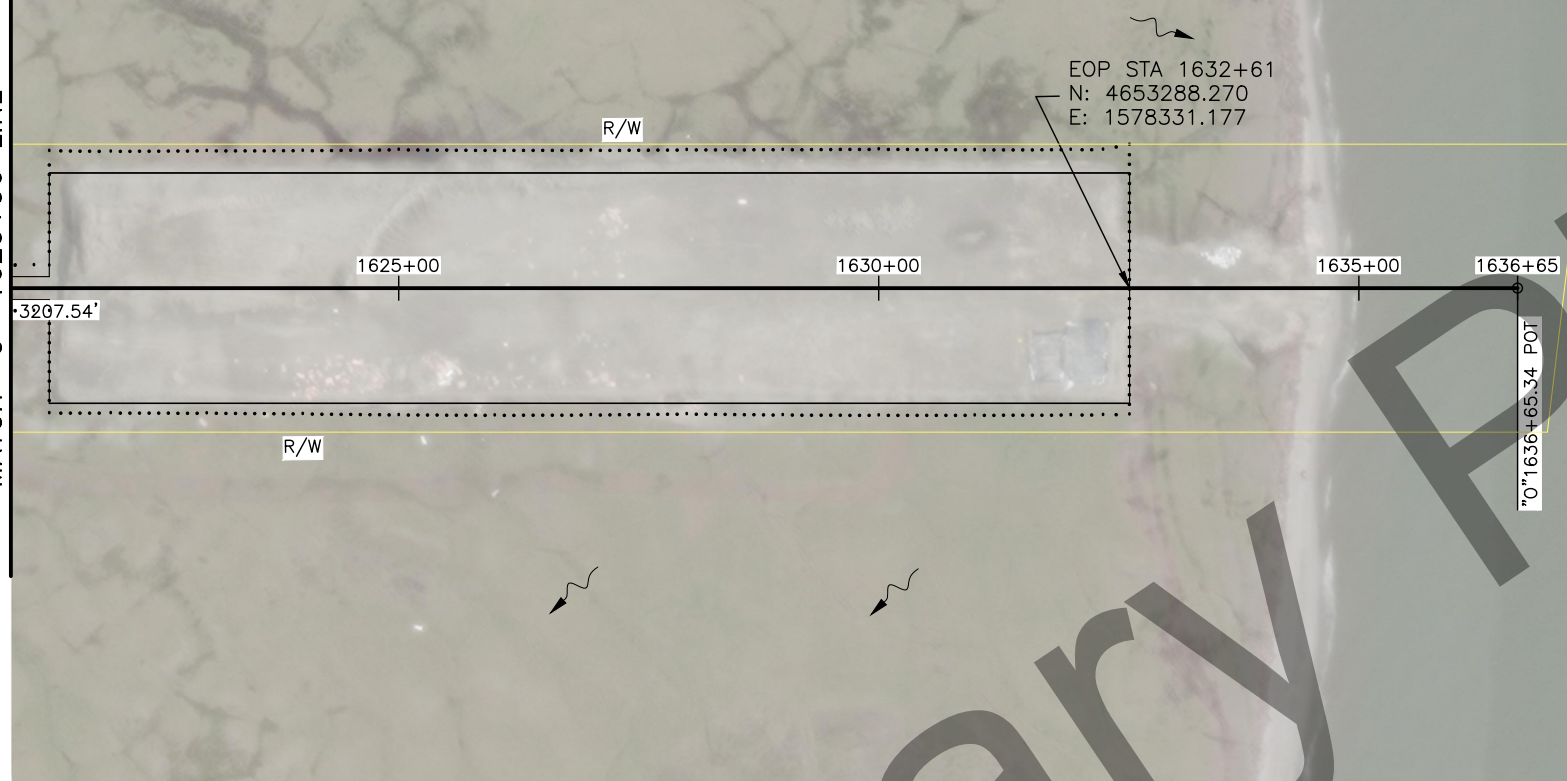
STAGE II EOP



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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	F13	F14

MATCH "O" 1620+96 LINE



NOTES:

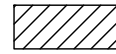
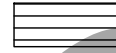
1. CONSTRUCT PAD TO 280' WIDE WITH A 1% CROWN, 2:1 SIDE SLOPES, WITH 631.00002.0001, GEOTEXTILE, EROSION CONTROL, CLASS 1 ON TOP OF ORIGINAL GROUND BENEATH THE PAD FOOTPRINT, OR AS DIRECTED BY THE ENGINEER.
2. CONSTRUCT AN ACCESS ROAD FROM THE SOUTHERN END OF THE PAD, DOWN TO THE ORDINARY HIGH WATER LIMITS OF THE KOTZEBUE SOUND, AS DIRECTED BY THE ENGINEER.
3. CONSTRUCT AN ACCESS ROAD ON THE NORTHERN END OF THE PAD DOWN TO THE ORIGINAL GROUND AS DIRECTED BY THE ENGINEER.
4. SEED ALL EMBANKMENT SIDE SLOPES.

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 H:\Projects\Communities\Kotzebue\76884_Kotz_to_Cape_Blossom_Stage_1\04_Plan_1\76884_MS-F14_Mon_Sep/19/22 11:54am

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHWW00718	2022	F14	F14



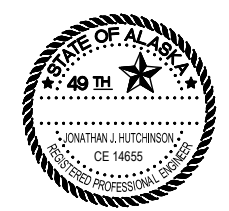
LEGEND:

-  NATIVE ALLOTMENTS
-  MILITARY

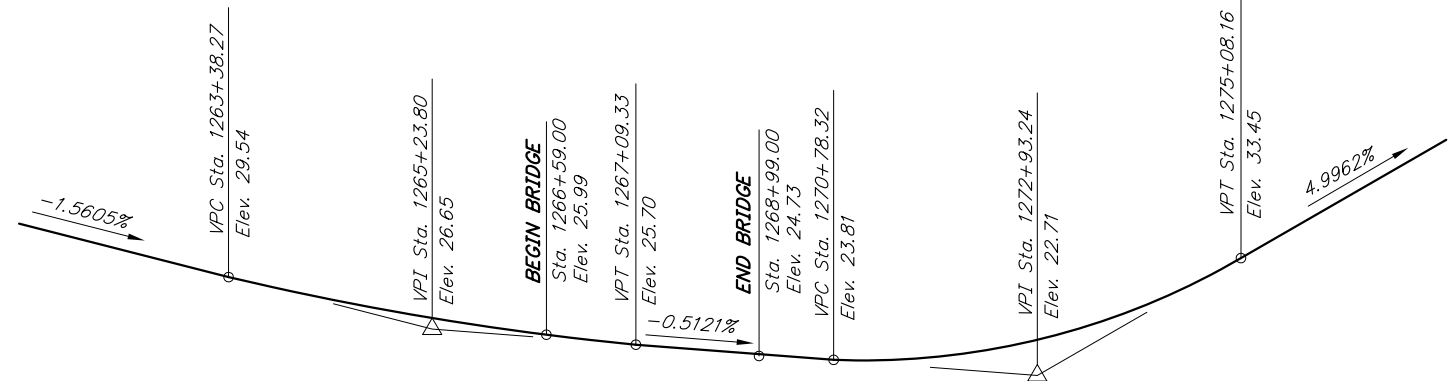
NOTES:

1. SEE SPECIFICATIONS SECTION 106 FOR MANDATORY SOURCES FOR BORROW AND AGGREGATE SURFACE COURSE. MANDATORY SOURCES ARE SHOWN ON SHEET F1.
2. ALL OTHER MATERIALS, EXCLUDING MANDATORY SOURCES, ARE CONTRACTOR-FURNISHED. CONTRACTOR FURNISHED MATERIALS ARE ANTICIPATED TO BE IMPORTED BY BARGE.
3. ALL HAUL ROUTES, BARGE LANDINGS, STAGING AREAS, AND ASSOCIATED PERMITS ARE CONTRACTOR FURNISHED.
4. FEATURE AND LAND STATUS LOCATIONS DISPLAYED ON THIS SHEET ARE APPROXIMATE ONLY. THE IMAGE ON THIS SHEET WAS TAKEN JULY 12, 2022.

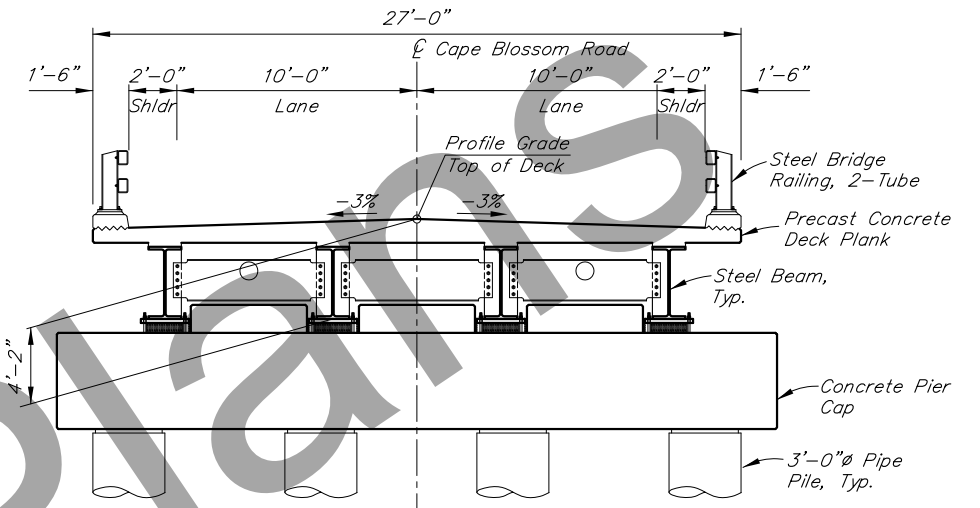
MATERIAL SITES



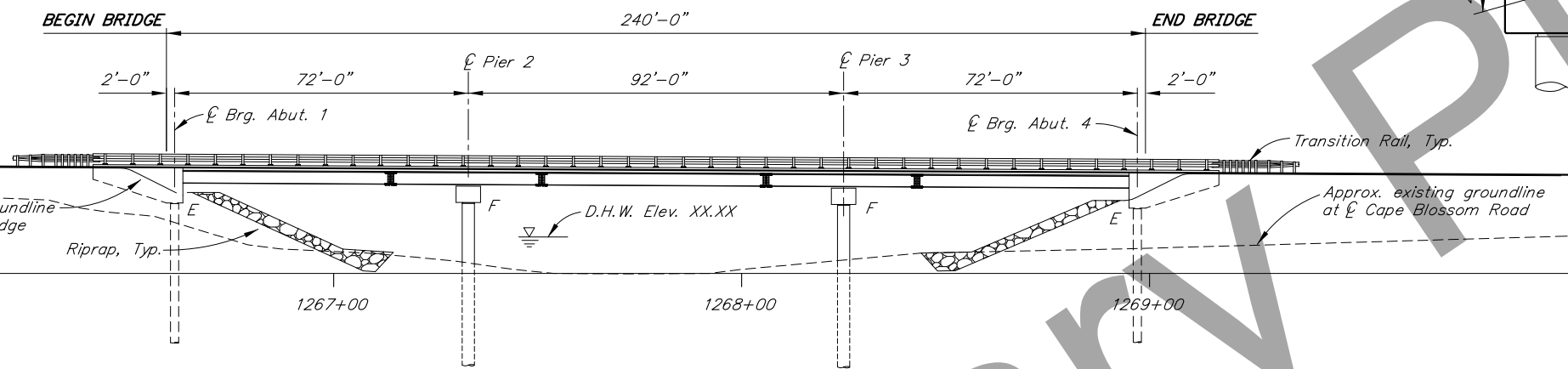
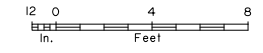
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2018	NI	TtiShts



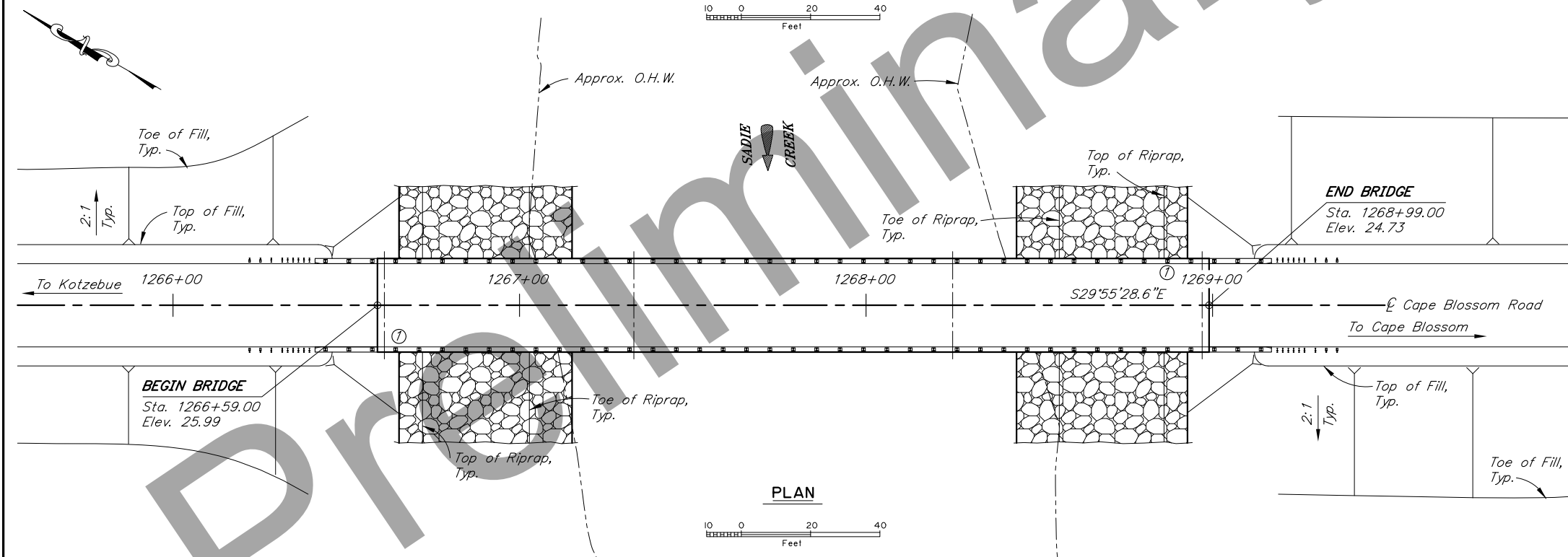
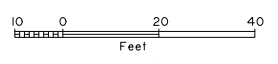
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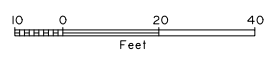
TYPICAL SECTION



ELEVATION



PLAN



BRIDGE DRAWING INDEX	
TITLE	DWG. NO.
GENERAL LAYOUT	1
SITE PLAN	2
RIPRAP LAYOUT	3
RIPRAP DETAILS	4
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EXTERIOR DECK PANELS	17
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STEEL BRIDGE RAILING, 2-TUBE	19
TEST HOLES LOGS AND LOCATIONS	20-

PRELIMINARY PLAN

① Approximate location of Bridge Number Plate.

R:\cadd\1596\1596-1 Fri, Jan/22/21 01:37pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty	LAYOUT BY: Hannah Bailey	CHECKED BY: Leslie Daugherty
DRAWN BY: Sam Solie	CHECKED: Hannah Bailey	SPECIFICATIONS BY: Hannah Bailey	P S & E COMPARED: Leslie Daugherty
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty	APPROVAL RECOMMENDED BY: Rich Pratt	

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

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
GENERAL LAYOUT

BRIDGE NO. 1596
DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N2	TtiShts

GENERAL NOTES

DESIGN:..... AASHTO LRFD Bridge Design Specifications, 2021 Edition, with latest interim specifications.

Seismic design per AASHTO Guide Specifications for LRFD Seismic Bridge Design, 2011 with latest interim revisions.

LIVE LOAD:..... HL-93.

DEAD LOAD:..... Includes 50 psf for all wearing surfaces.

SEISMIC PARAMETERS:.....

	Abutments 1 & 4	Piers 2 & 3
PGA	= 0.17	0.26
S _s	= 0.40	0.62
S _i	= 0.20	0.29
Site Class	= D	E

Liquefaction Potential = Low
AASHTO 7% probability of exceedance in 75 years.

REINFORCEMENT:..... ASTM A706, Grade 60, F_y = 60,000 psi.
ASTM A970 Headed bars, Class HA.
Space reinforcement evenly unless otherwise noted.

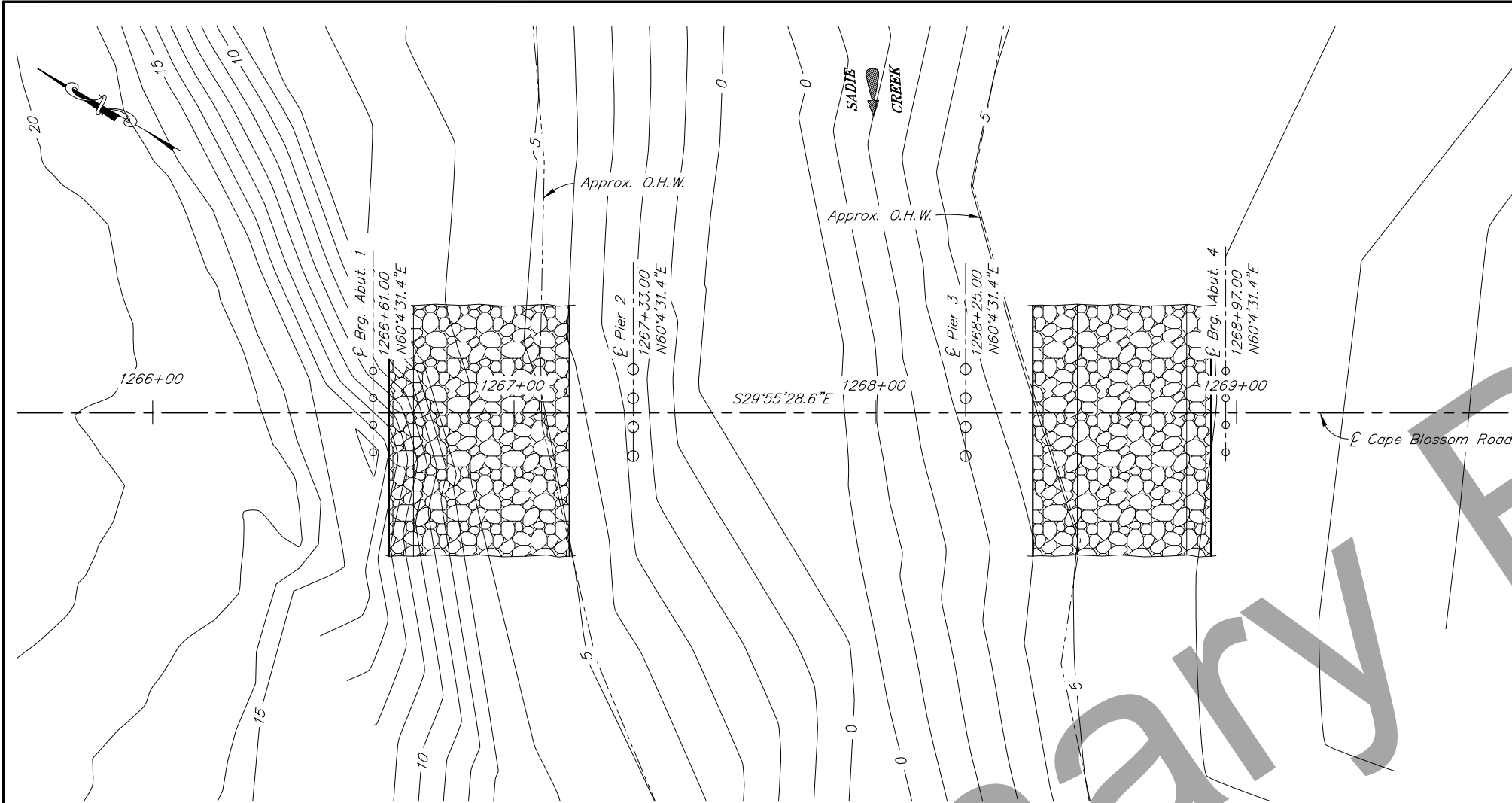
CONCRETE:..... Class A Concrete unless otherwise noted, f'c = 4,000 psi.
Provide rubbed finish on all exposed vertical surfaces.
Mandatory construction joints in concrete shall be constructed in accordance with standard specifications.

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

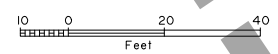
STRUCTURAL STEEL PILING:..... API 5L X52 PSL2, F_y = 52,000 psi or
ASTM A709, GR50T3, F_y = 50,000 psi.
Pile Tip reinforcing is required.

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

SHEAR STUD CONNECTORS:..... ASTM A108, F_u = 60,000 psi.



SITE PLAN



LOCATION	PILE TYPE	DRIVING CRITERIA		DESIGN DATA	
		PILE TIP ELEVATION (ft)	STRENGTH I FACTORED LOAD (K)	NOMINAL RESISTANCE (K)	RESISTANCE FACTOR, φ
Abutment 1	2'-0"Øx1/2" Pipe	-90	445	870	0.6
Pier 2	3'-0"Øx3/4" Pipe	-98	505	1,753	0.6
Pier 3	3'-0"Øx3/4" Pipe	-97	505	1,919	0.6
Abutment 4	2'-0"Øx1/2" Pipe	-86	485	893	0.6

Difficult driving conditions are expected. Methods to thaw soils may be necessary to drive piles to required elevations.

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL QUANTITY
205.0006.0000	Structural Fill	CY	CY	854	---	854
501.0001.0000	Class A Concrete	LS	CY	155.5	31.0	186.5
501.0007.0000	Precast Concrete Member, Deck Panel	EA	EA	---	58	58
503.0001.0000	Reinforcing Steel	LS	LBS	55,696	---	55,696
503.0002.0000	Epoxy-Coated Reinforcing Steel	LS	LBS	---	1,941	1,941
504.0001.0000	Structural Steel	LS	LS	172	273,808	273,979
505.0005.2405	Furnish Structural Steel Piles, 2'-0" Dia. x 1/2" Pipe	LF	LF	827	---	827
505.0005.3675	Furnish Structural Steel Piles, 3'-0" Dia. x 3/4" Pipe	LF	LF	912	---	912
505.0006.2405	Drive Structural Steel Piles, 2'-0" Dia. x 1/2" Pipe	EA	EA	8	---	8
505.0006.3675	Drive Structural Steel Piles, 3'-0" Dia. x 3/4" Pipe	EA	EA	8	---	8
507.0001.0002	Steel Bridge Railing, 2-Tube	LF	LF	---	552	552
606.0016.0000	Transition Rail	EA	EA	---	4	4
611.0001.0002	Riprap, Class II	CY	CY	---	---	---
631.0002.0001	Geotextile, Erosion Control, Class 1	SY	SY	---	---	---

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

ABBREVIATIONS:

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

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty	FOUNDATIONS REVIEWED BY: Dave Hemstreet	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION 3132 Channel Drive Juneau, Alaska 99801 907-465-2975	SADIE CREEK BRIDGE CAPE BLOSSOM ROAD SITE PLAN	 BRIDGE NO. 1596 DWG. NO. 2
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey	PRELIMINARY PLAN			
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty				

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N3	TtlShts

*TO BE
DETERMINED*

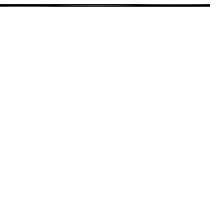
Preliminary Plans

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DESIGNED BY:	<i>Designer</i>	CHECKED:	<i>Checker</i>
DRAWN BY:	<i>Drafter</i>	CHECKED:	<i>Designer</i>
QUANTITIES BY:	<i>Designer</i>	CHECKED:	<i>Checker</i>

PRELIMINARY PLAN

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



SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
RIPRAP LAYOUT



BRIDGE NO. 1596
DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N4	TtIShts

*TO BE
DETERMINED*

Preliminary Plans

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DRAWN BY:	<i>Drafter</i>	CHECKED:	<i>Designer</i>
QUANTITIES BY:	<i>Designer</i>	CHECKED:	<i>Checker</i>

PRELIMINARY PLAN

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

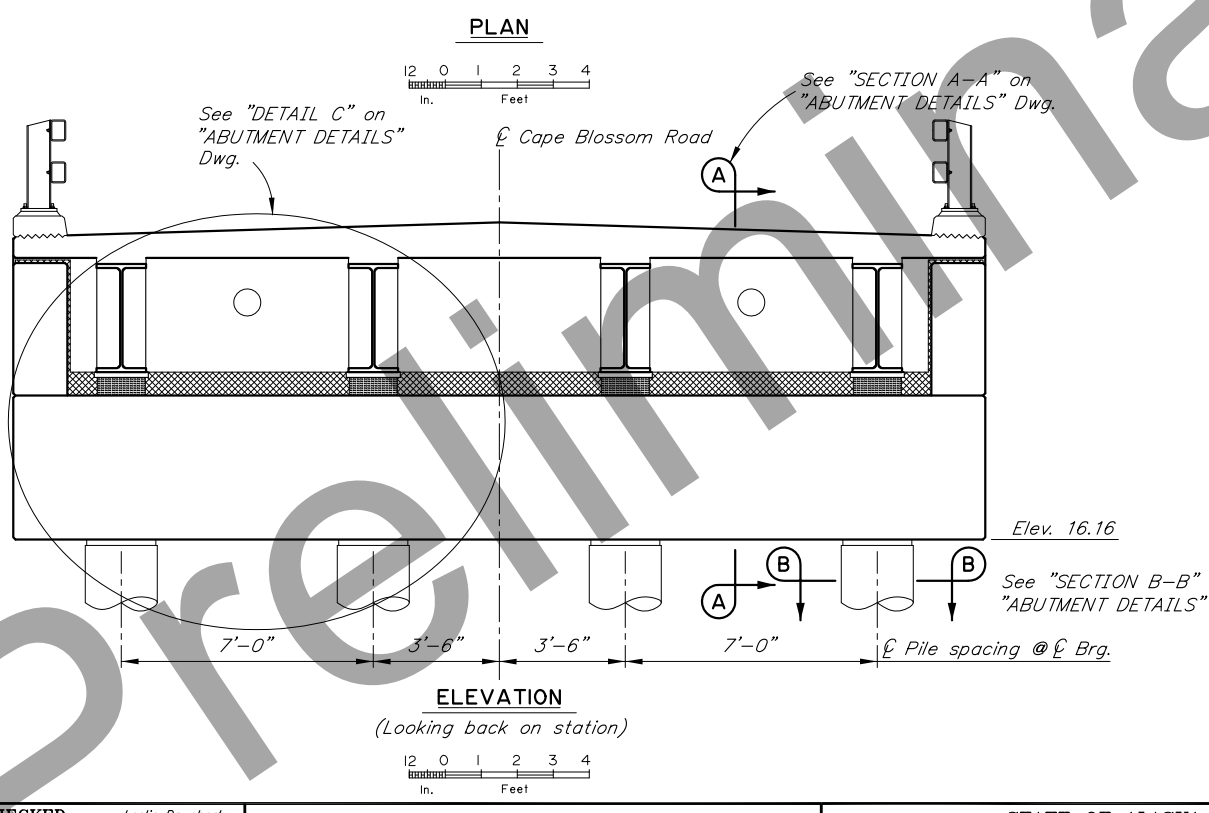
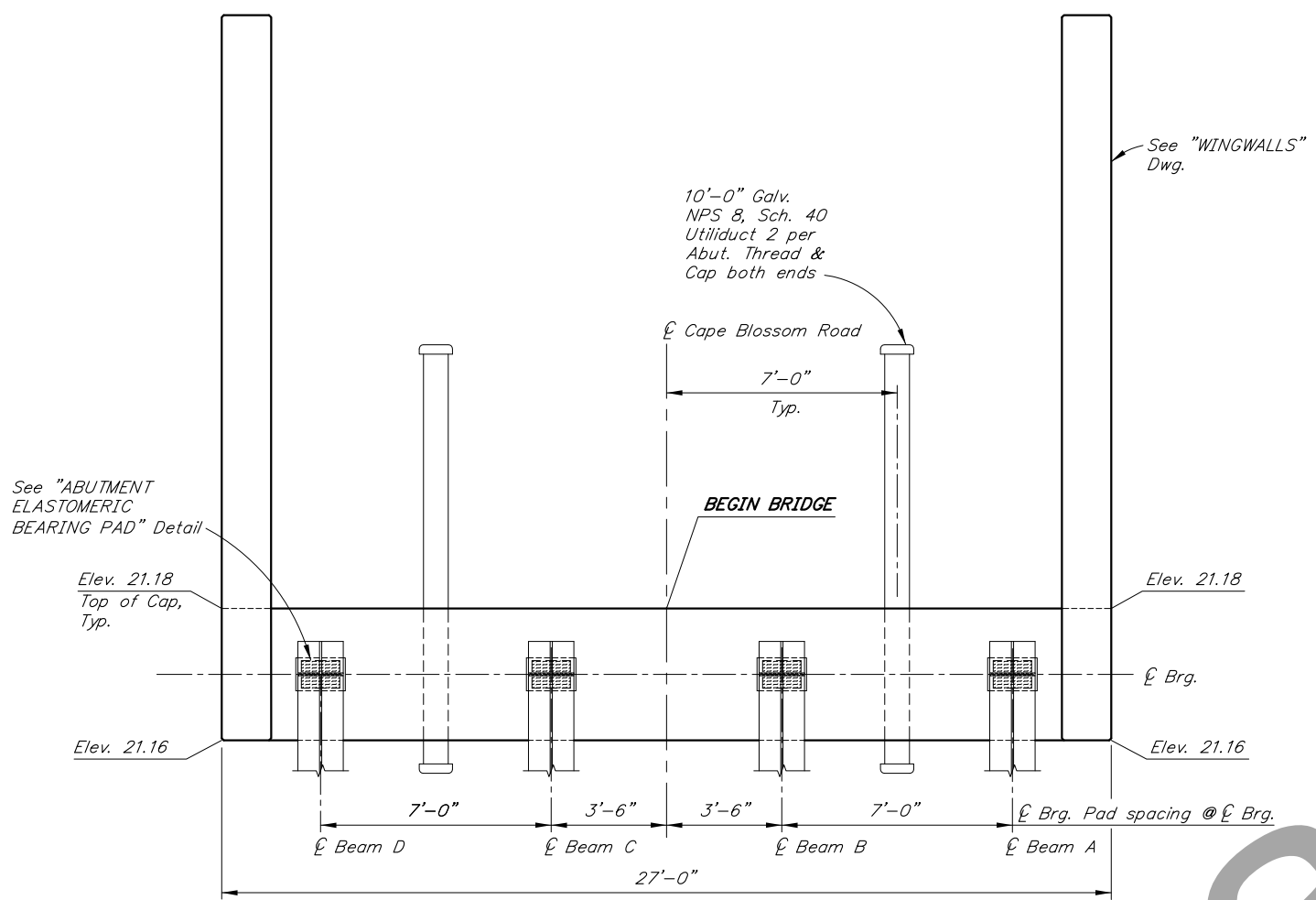
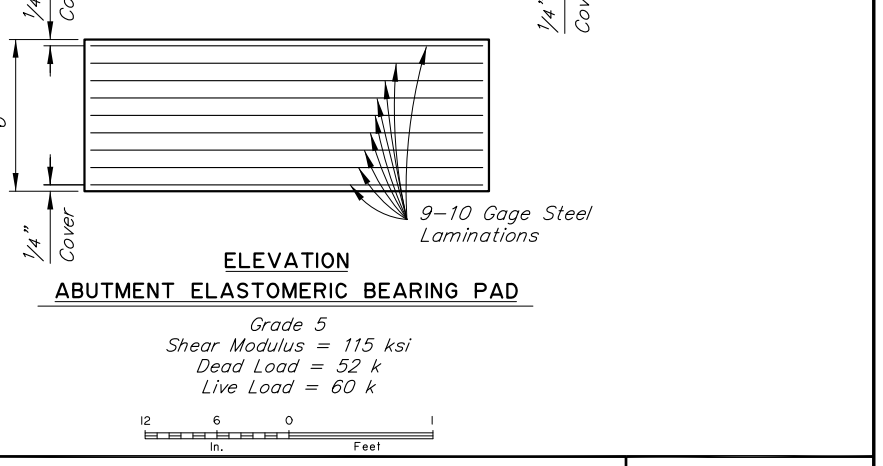
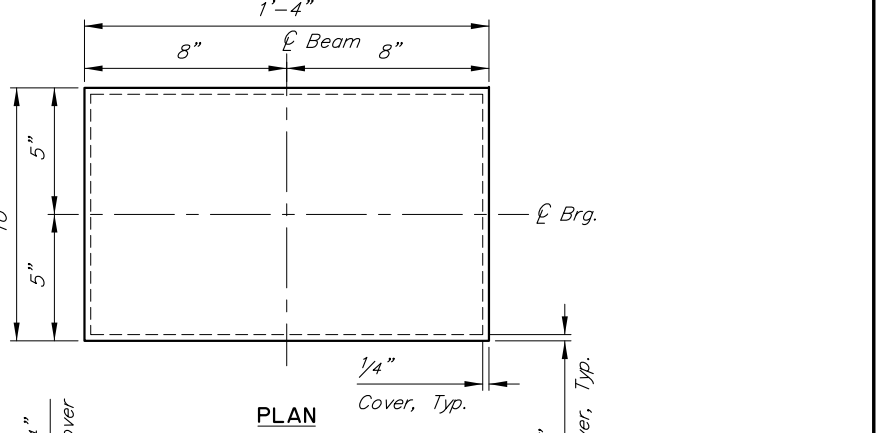
SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
RIPRAP DETAILS



BRIDGE NO. 1596
DWG. NO. 4

REINFORCING STEEL - ABUTMENT I						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401	S	4	4	350'-2"	SPIRAL	
A402		4	80	15'-5"	STIRRUP	
A403		4	28	6'-0"	HOOP	
A404		4	20	4'-8"	BENT	
A501		5	10	26'-8"	---	
A502	E	5	26	VARIES	STIRRUP	
A601	E	6	4	23'-6"	---	
A602	E	6	7	26'-8"	---	
A701	E	7	8	3'-0"	BENT	
A801	S	8	32	54'-6"	---	
A802	H	8	12	26'-8"	HEADED	

E - Epoxy-Coated
H - Headed reinforcing steel
S - Length does not include splices




DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

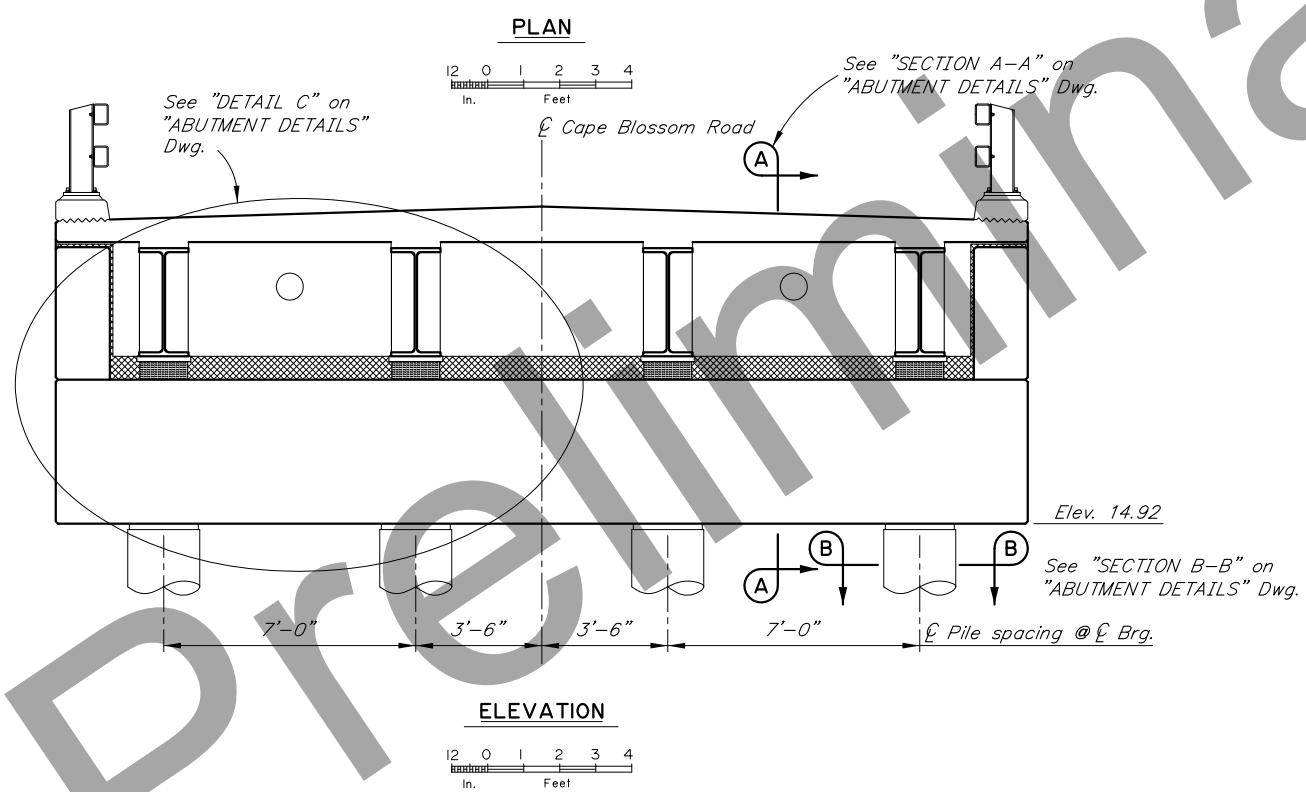
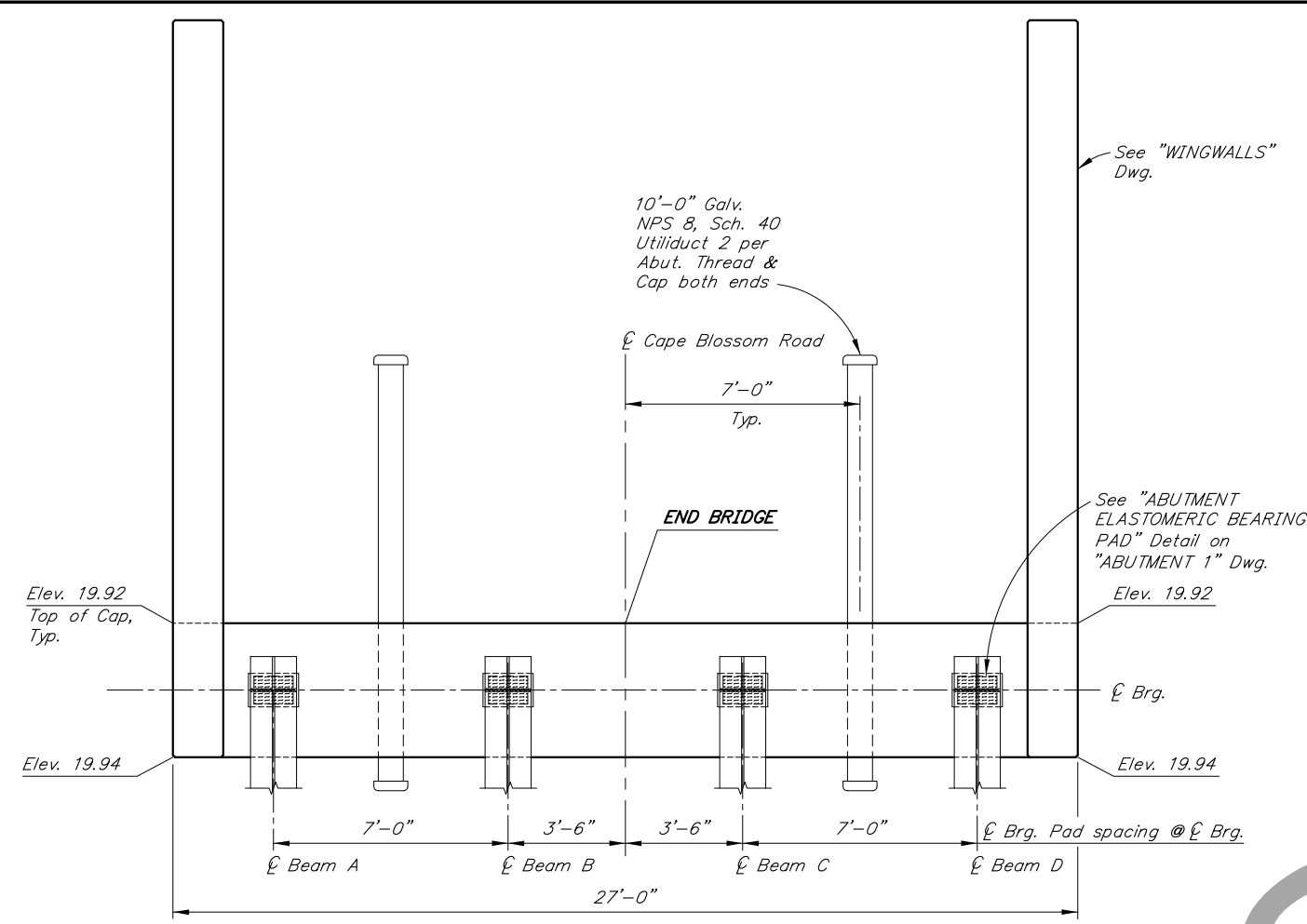
SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
ABUTMENT 1


BRIDGE NO. 1596
DWG. NO. 5

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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N6	TtIShts

REINFORCING STEEL - ABUTMENT 4						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
A401	S	4	4	350'-2"	SPIRAL	
A402		4	80	15'-5"	STIRRUP	
A403		4	28	6'-0"	HOOP	
A404		4	20	4'-8"	BENT	
A501		5	10	26'-8"	---	
A502	E	5	26	VARIES	STIRRUP	
A601	E	6	4	23'-6"	---	
A602	E	6	7	26'-8"	---	
A701	E	7	8	3'-0"	BENT	
A801	S	8	32	54'-6"	---	
A802	H	8	12	26'-8"	HEADED	



E - Epoxy-Coated
H - Headed reinforcing steel
S - Length does not include splices


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DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

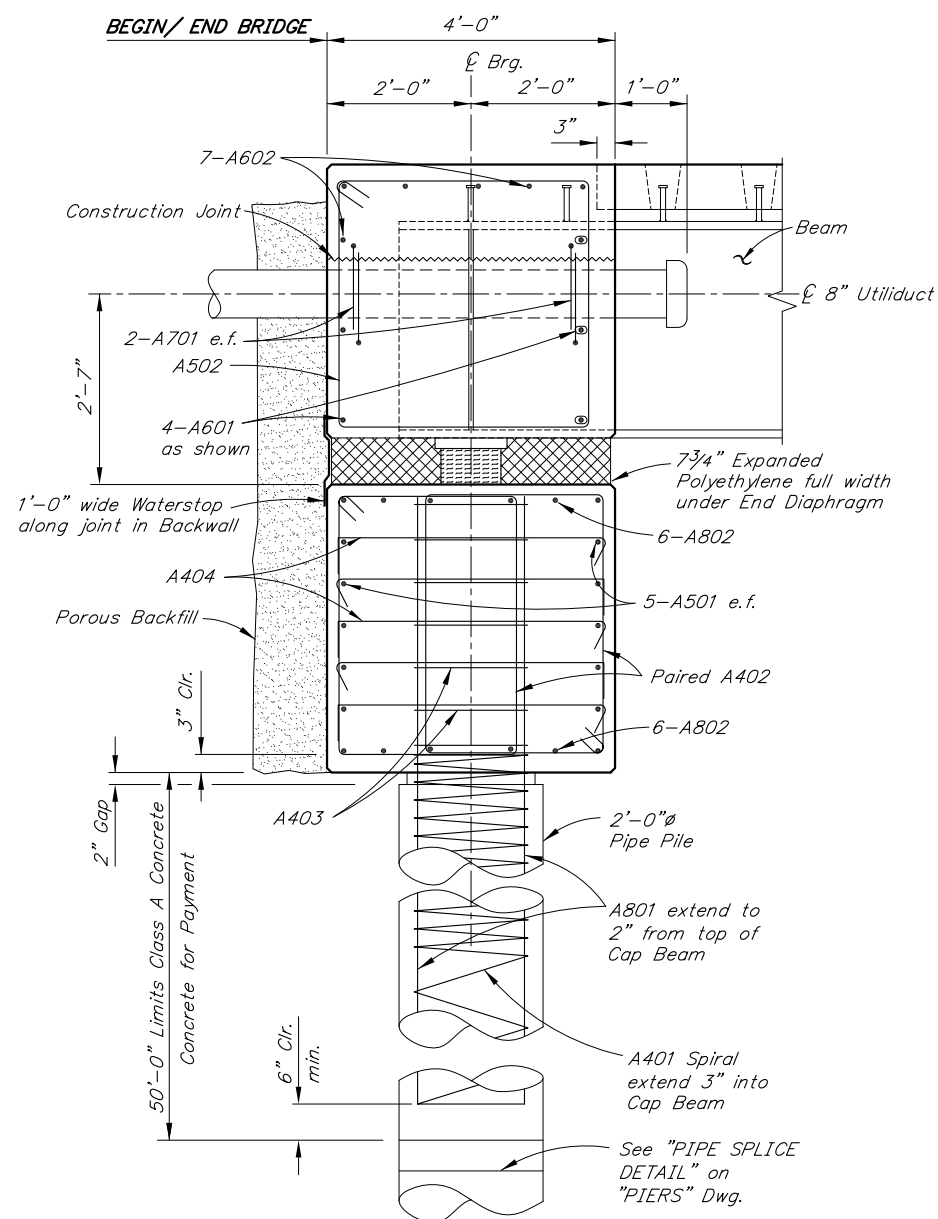
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
ABUTMENT 4

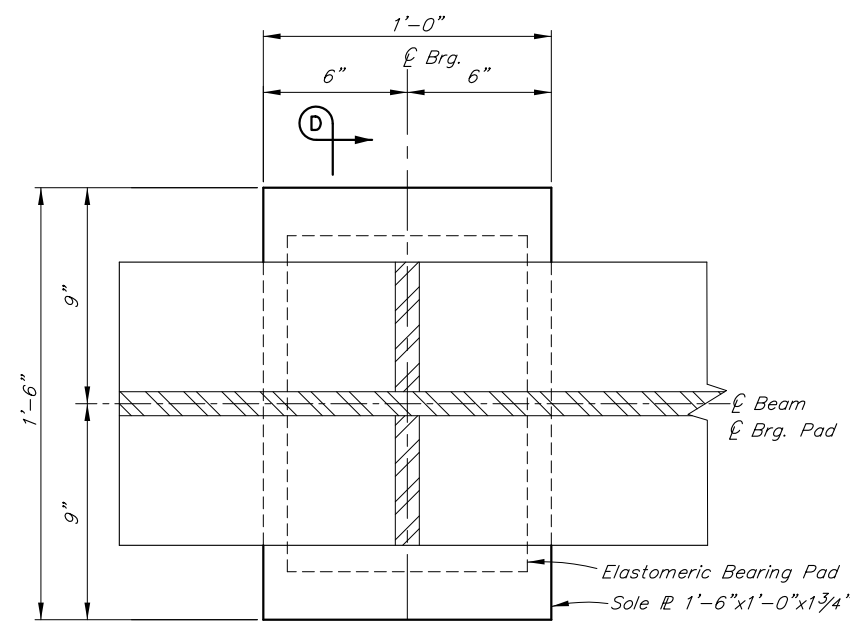


BRIDGE NO. 1596
DWG. NO. 6

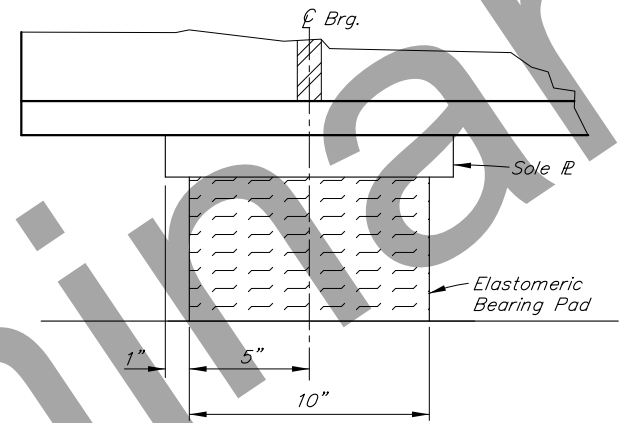
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N7	TtShts



SECTION A-A
12 6 0 1 2 3
In. Feet



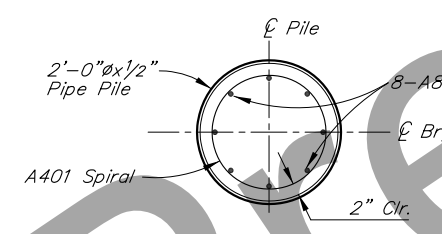
PLAN



ELEVATION

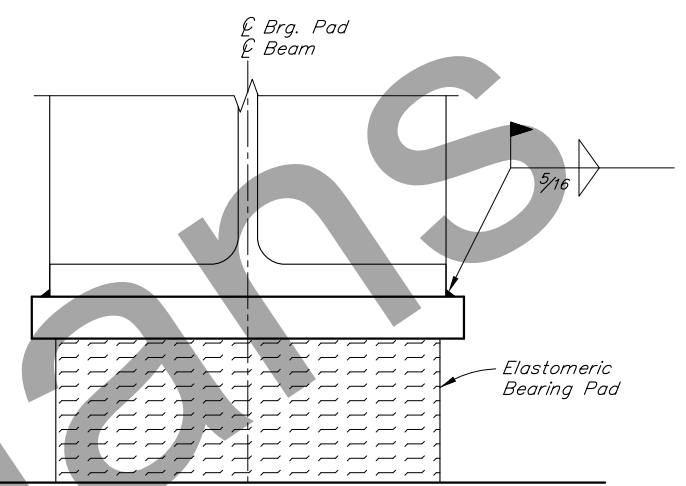
ABUTMENT BEARING DETAILS

6 3 0 1
In. Feet



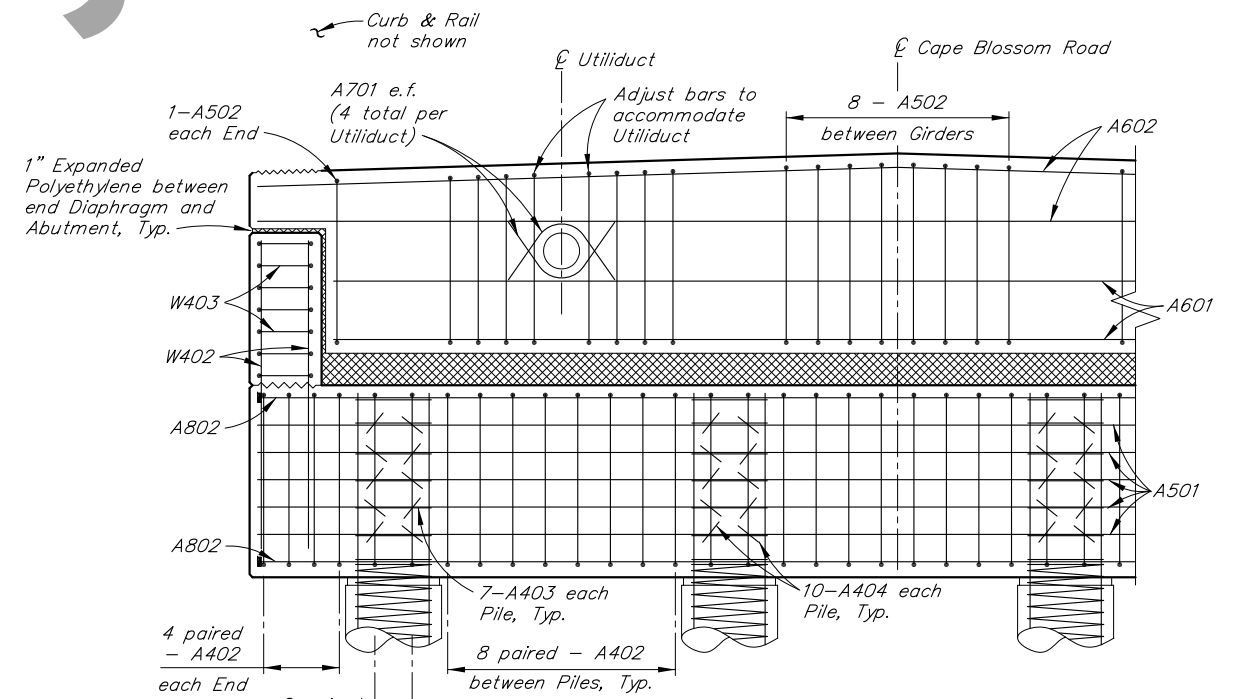
SECTION B-B

12 6 0 1 2 3
In. Feet



SECTION D-D

6 3 0 1
In. Feet



DETAIL C

12 6 0 1 2 3 4
In. Feet

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DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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BRIDGE SECTION
3132 Channel Drive
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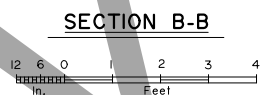
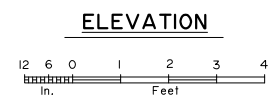
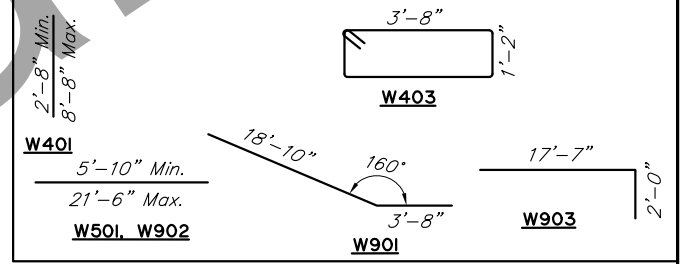
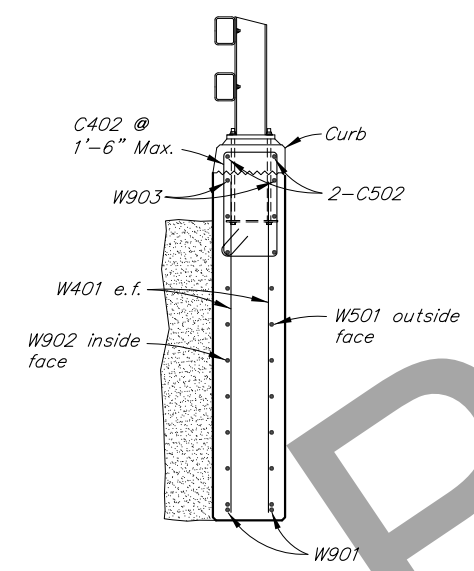
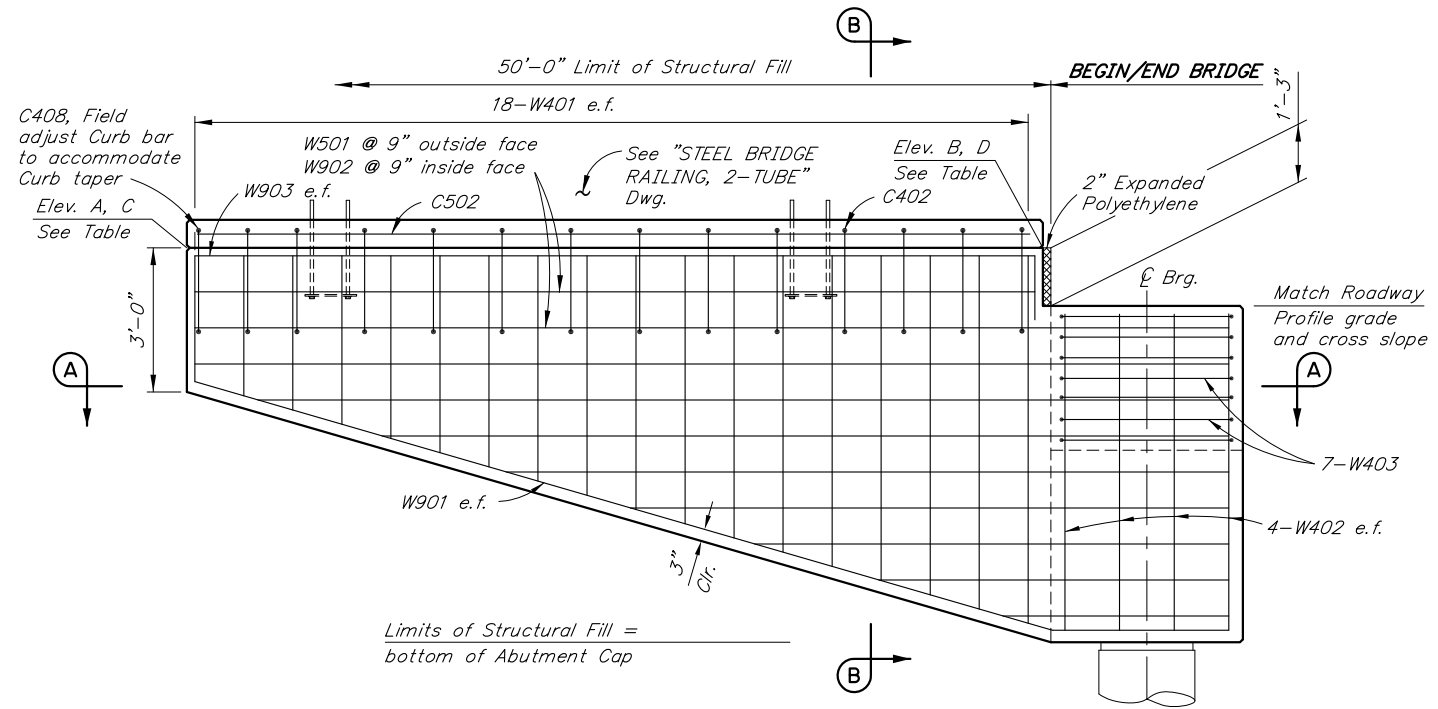
SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
ABUTMENT DETAILS



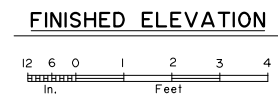
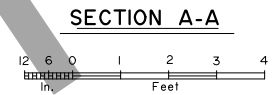
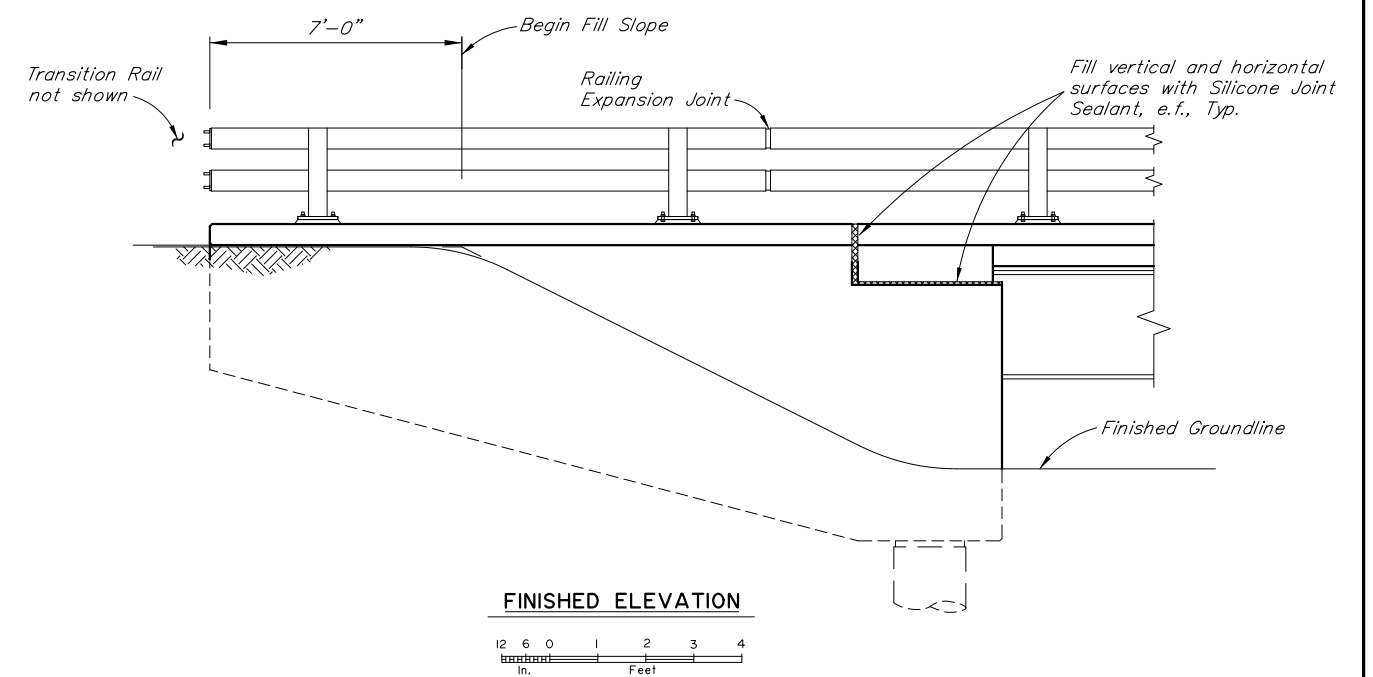
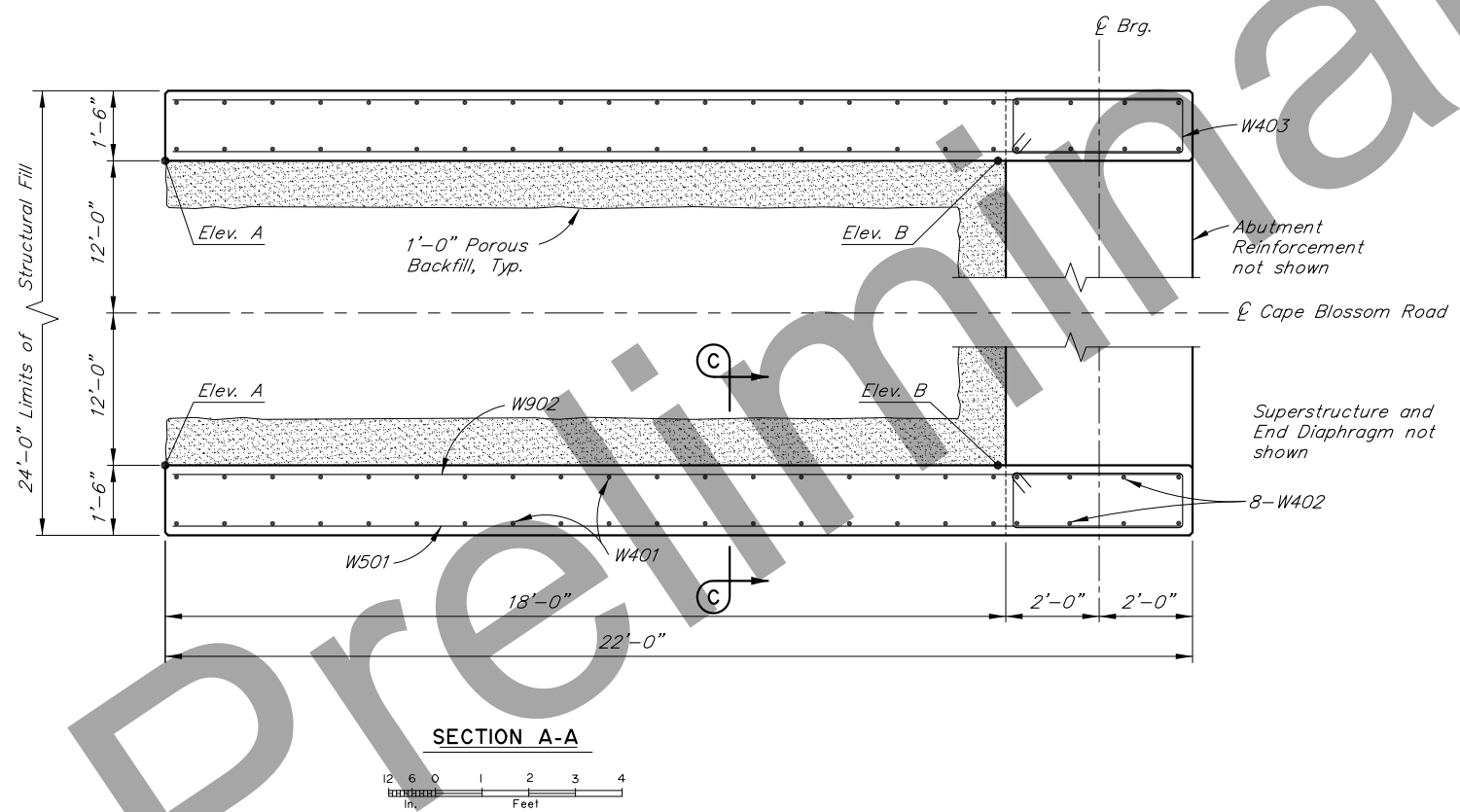
BRIDGE NO. 1596
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	NB	TtShts

REINFORCING STEEL - ONE ABUTMENT						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
W401			4	72	VARIABLES	---
W402			4	16	7'-6"	---
W403			4	14	10'-5"	STIRRUP
W501			5	22	VARIABLES	---
W901			9	4	22'-6"	BENT
W902			9	22	VARIABLES	---
W903			9	4	19'-7"	BENT
C402	E		4	28	7'-3"	STIRRUP
C502	E		5	4	17'-6"	---



LOCATION	A	B
ABUTMENT 1	25.13	25.01
ABUTMENT 4	23.65	23.74




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DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Solie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
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 BRIDGE SECTION
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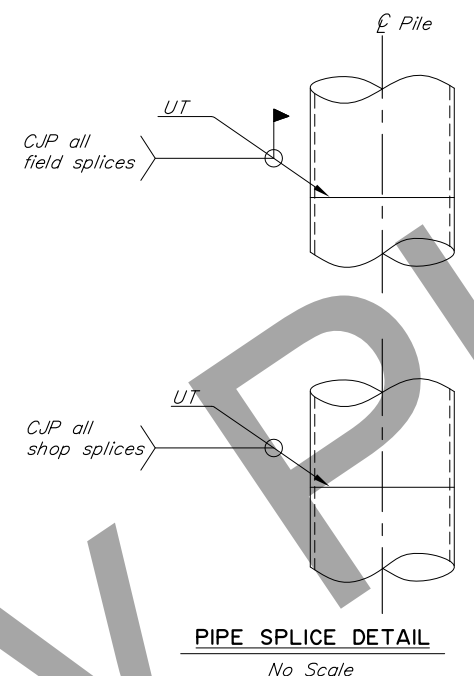
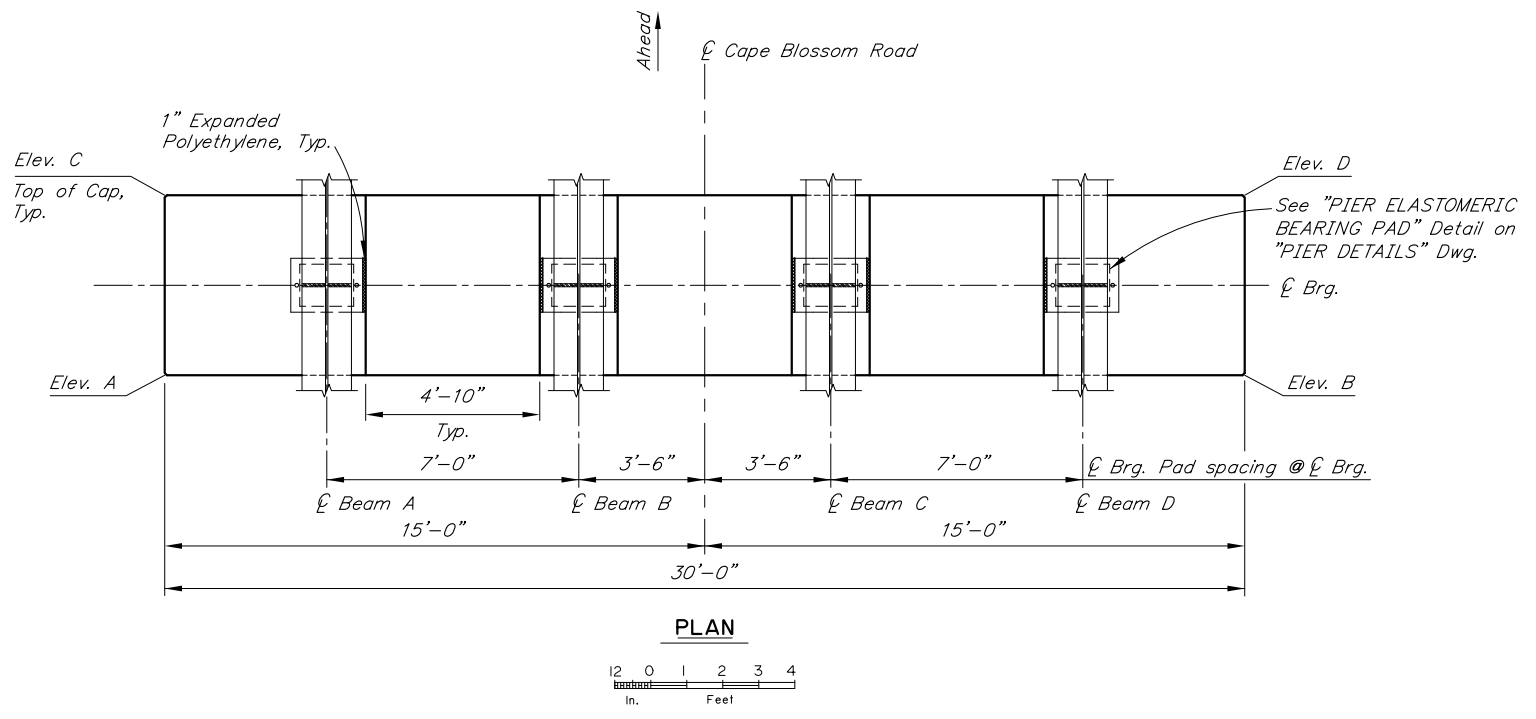
SADIE CREEK BRIDGE
 CAPE BLOSSOM ROAD
 WINGWALLS



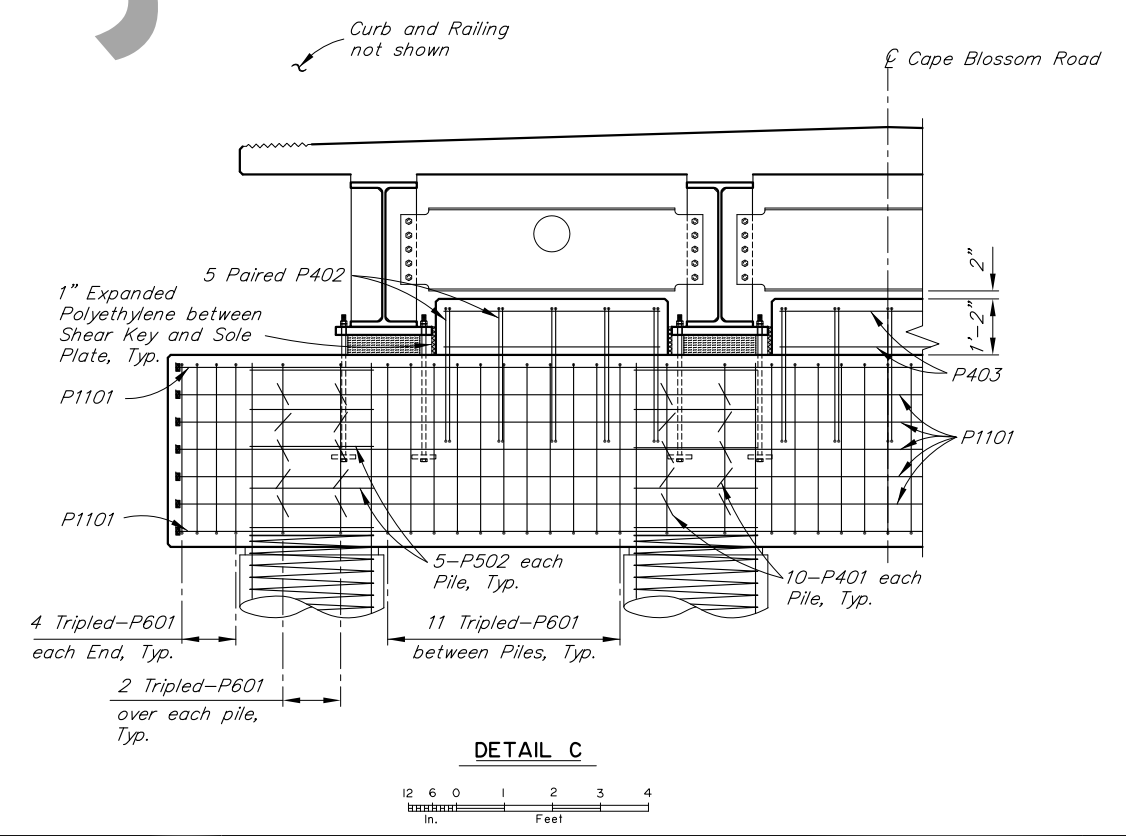
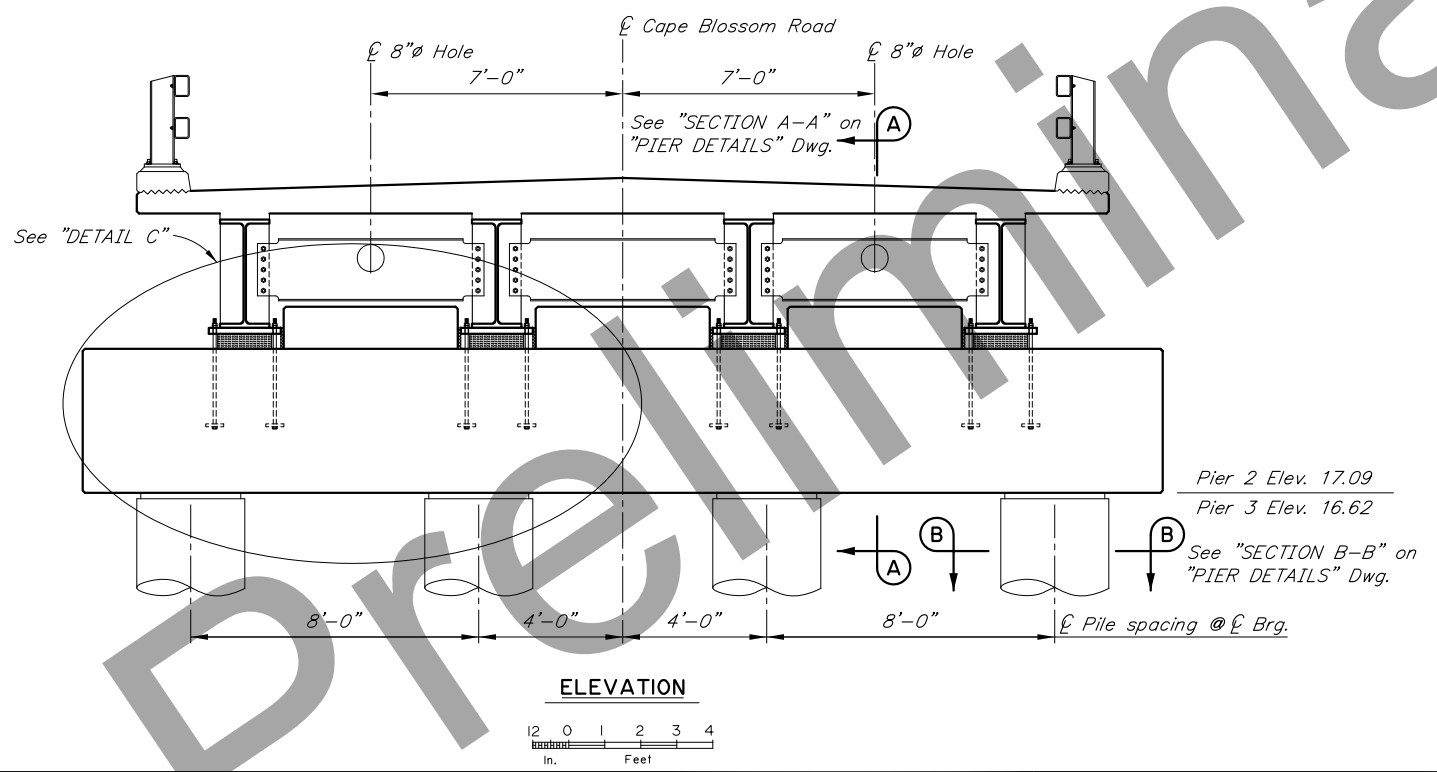
BRIDGE NO. 1596
 DWG. NO. 8

REINFORCING STEEL - ONE PIER

MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
P401		4	40	5'-8"	BENT	
P402		4	30	13'-11"	STIRRUP	
P403		4	12	4'-8"	---	
P501	S	5	4	533'-0"	SPIRAL	
P502		5	20	8'-10"	HOOP	
P601		6	252	11'-10"	STIRRUP	
P901	S	9	48	53'-3"	---	
P1101		11	30	26'-8"	---	



LOCATION	A UPSTREAM	B DOWNSTREAM	C UPSTREAM	D DOWNSTREAM
PIER 2	20.87	20.87	20.84	20.84
PIER 3	20.39	20.39	20.37	20.37



E - Epoxy-Coated
H - Headed reinforcing steel
M - Field adjust to match crown
S - Length does not include splices

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DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

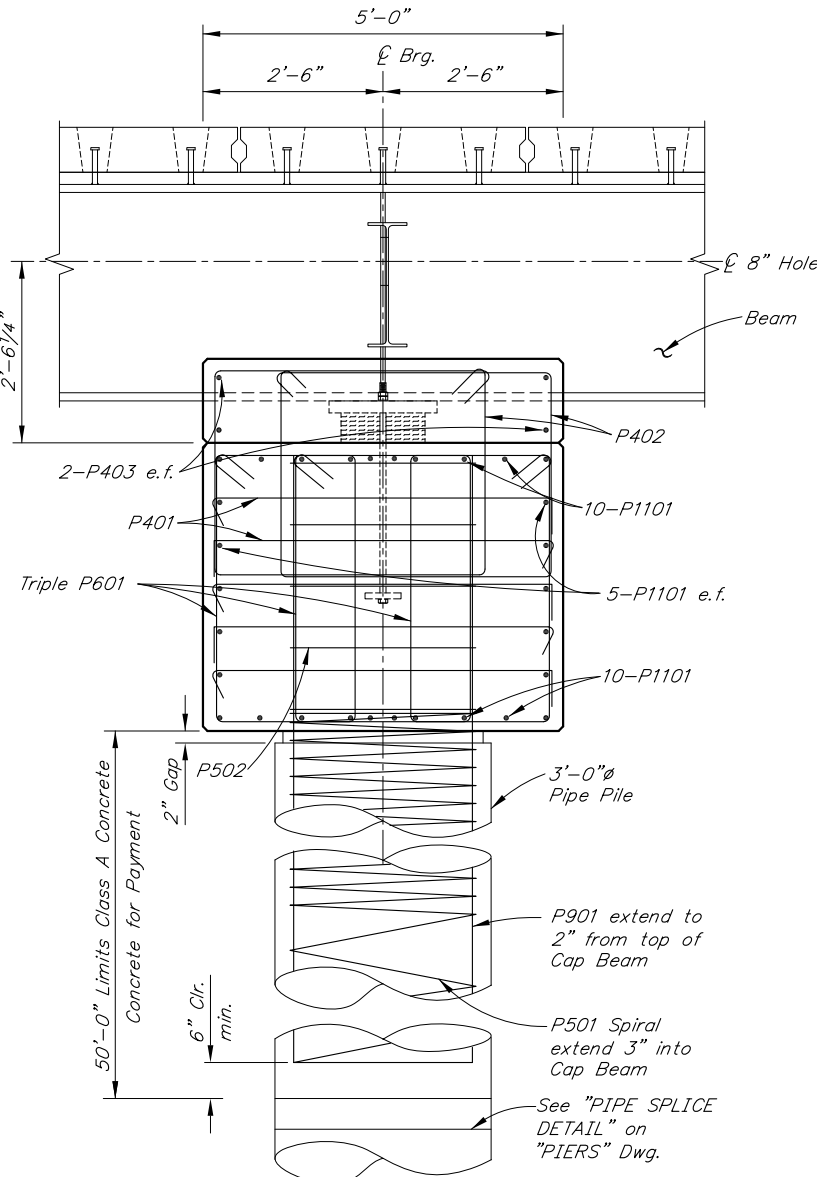
SADIE CREEK BRIDGE

CAPE BLOSSOM ROAD

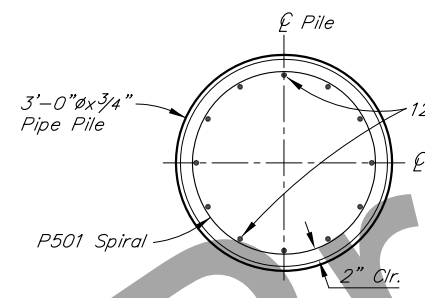
PIERS

BRIDGE NO. 1596
DWG. NO. 9

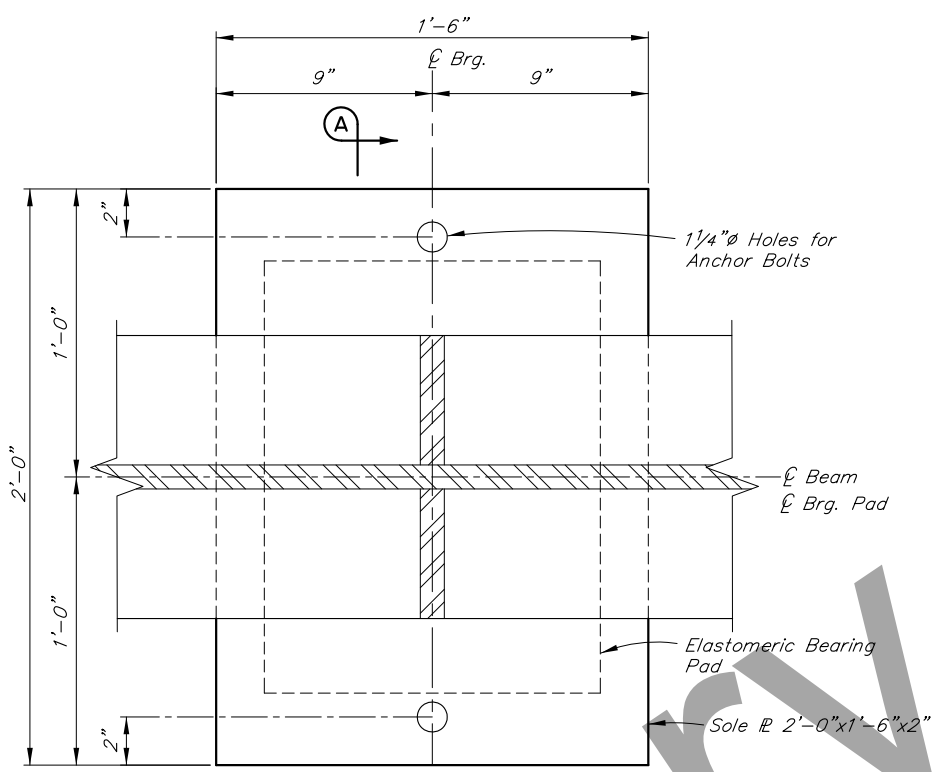
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N10	TtiShts



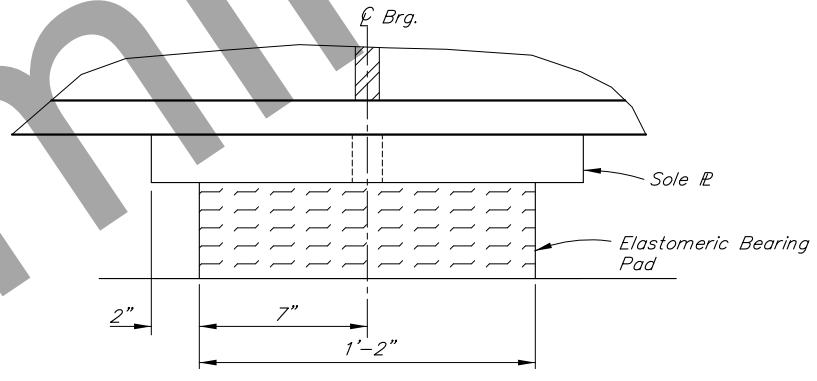
SECTION A-A
 12 6 0 1 2 3
 In. Feet



SECTION B-B
 12 6 0 1 2 3
 In. Feet



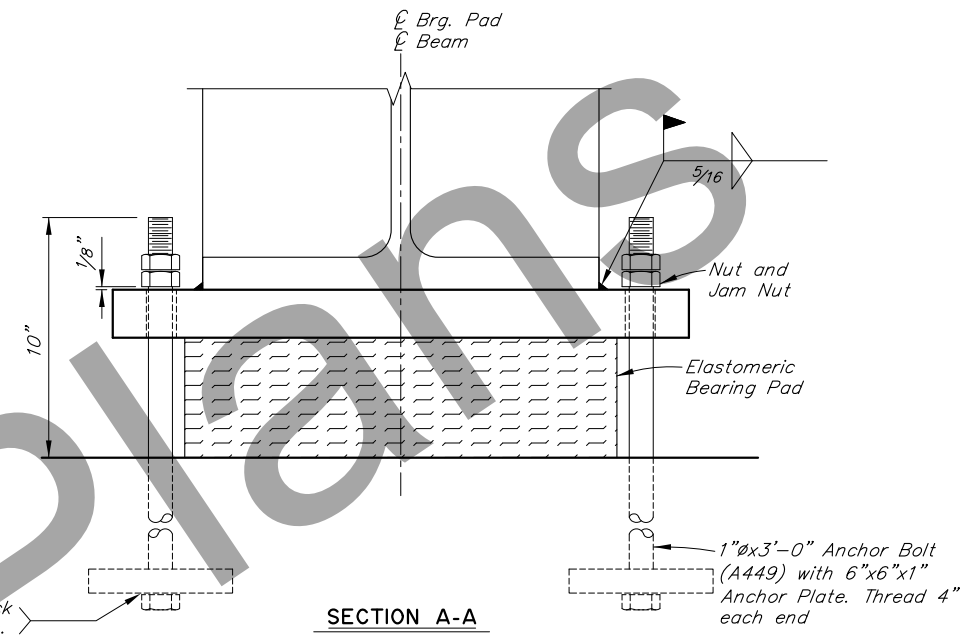
PLAN



ELEVATION

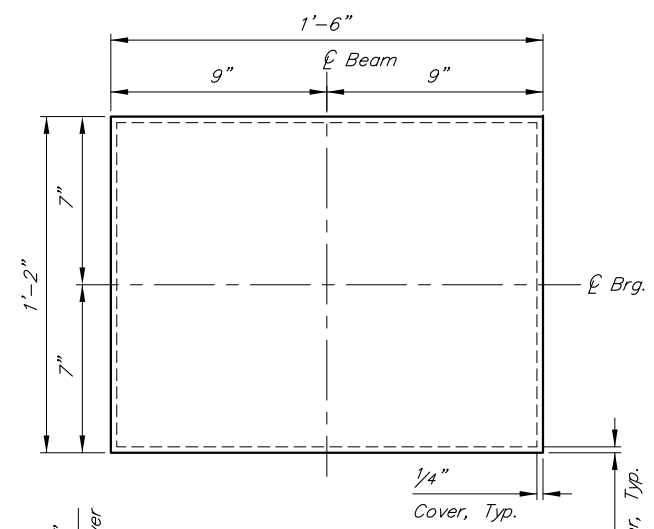
PIER BEARING DETAILS

6 3 0 1
 In. Feet

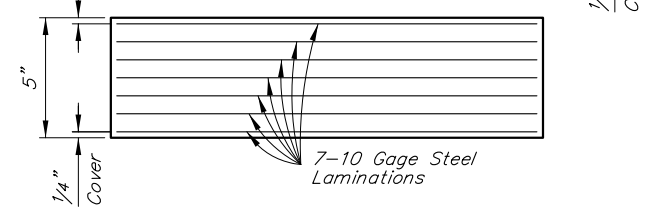


SECTION A-A

6 3 0 1
 In. Feet



PLAN



ELEVATION

PIER ELASTOMERIC BEARING PAD

Grade 5
 Shear Modulus = 115 ksi
 Dead Load = 149 k
 Live Load = 98 k

12 6 0 1
 In. Feet

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

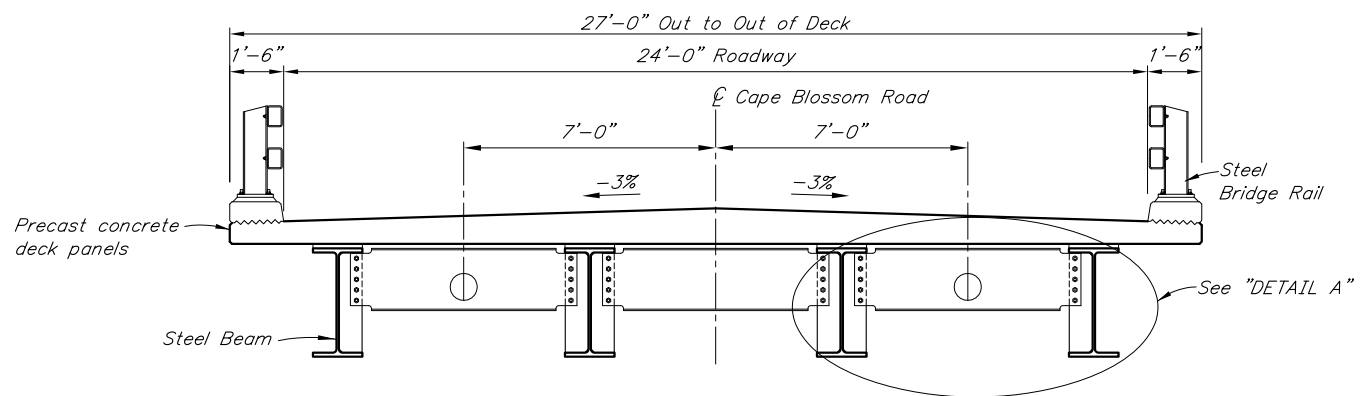
SADIE CREEK BRIDGE
 CAPE BLOSSOM ROAD
PIER DETAILS



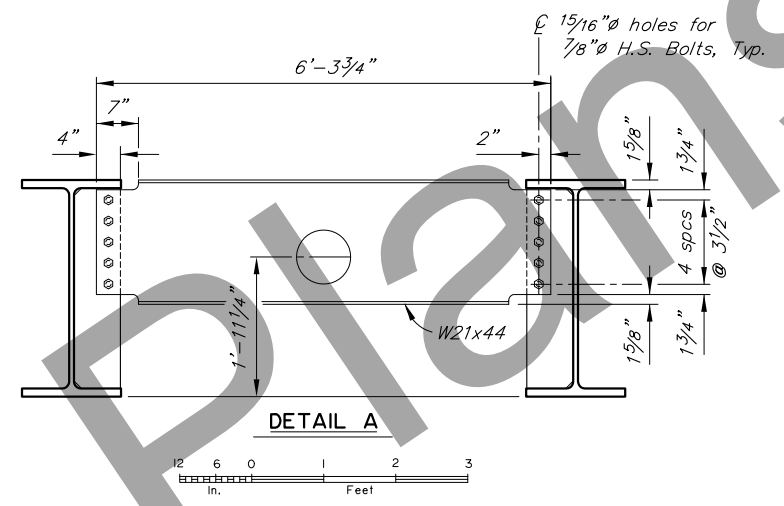
BRIDGE NO. 1596
 DWG. NO. 10

R:\cadd\1596\1-10 Fr. Jan/22/21 01:38pm

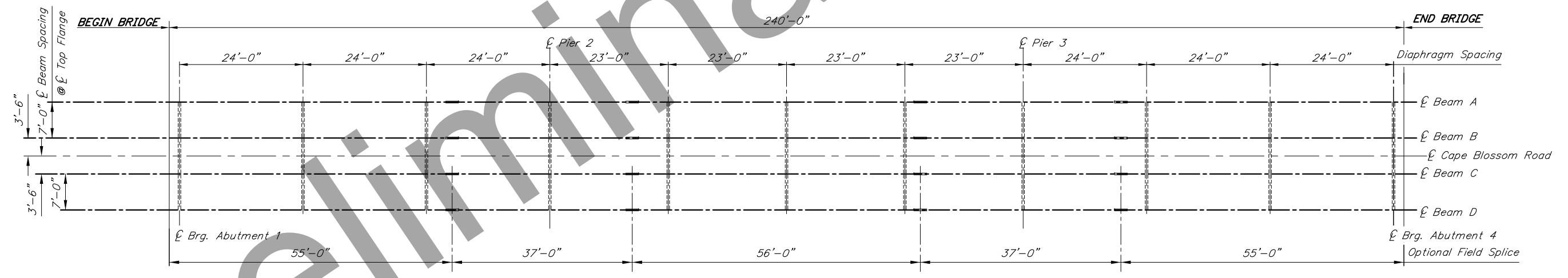
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	III	TtIShts



TYPICAL SECTION



DETAIL A



FRAMING PLAN


R:\cadd\1596\1596-1-11 Fri, Jan/22/21 01:38pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sallie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

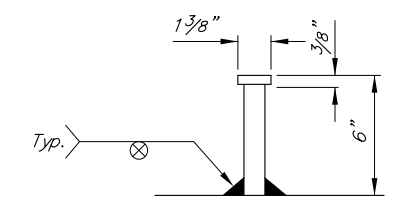
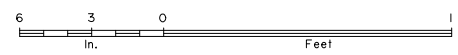
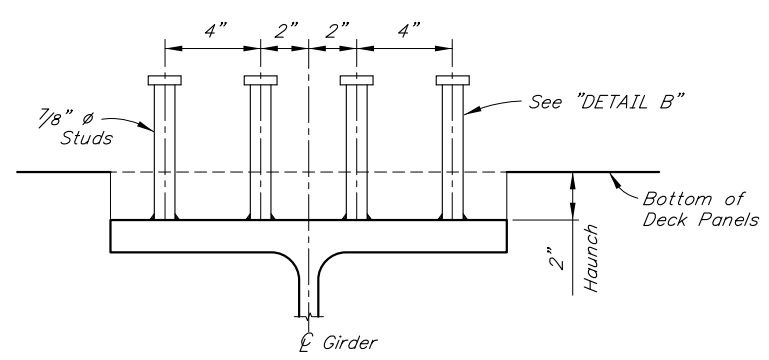
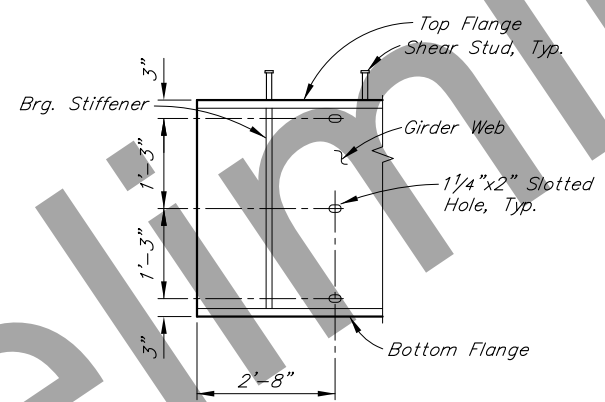
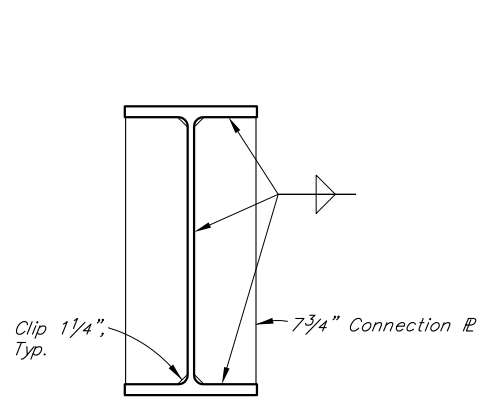
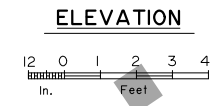
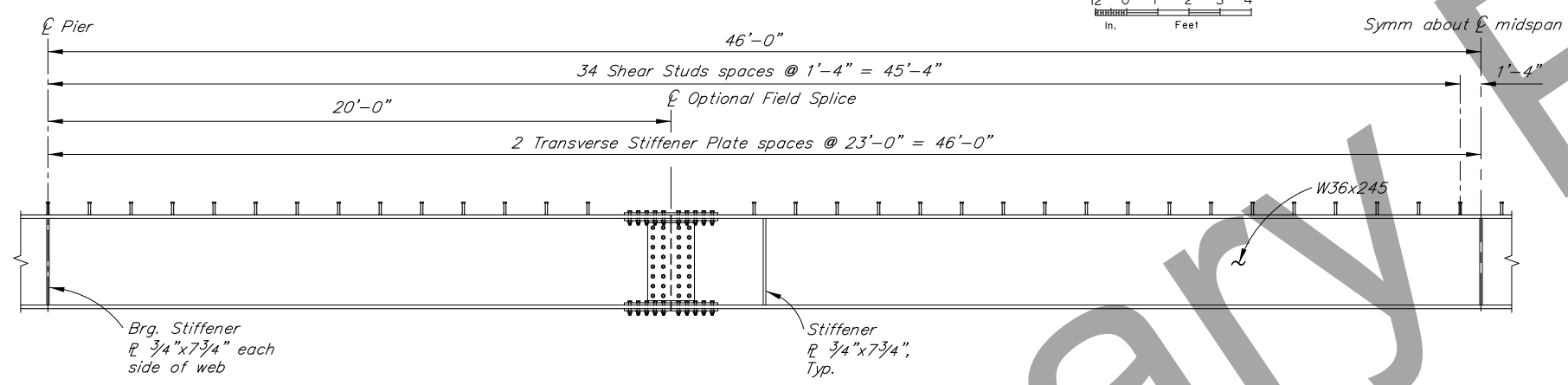
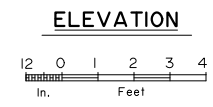
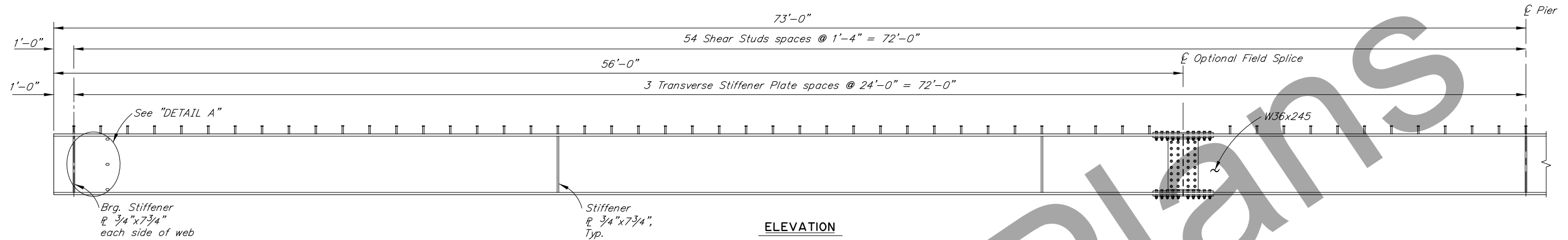
STATE OF ALASKA
**DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES**
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
FRAMING PLAN AND TYPICAL SECTION



BRIDGE NO. 1596
DWG. NO. II

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N12	Tt1Shts



R:\cadd\1596\1596-1-12 Fri, Jan/22/21 01:38pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

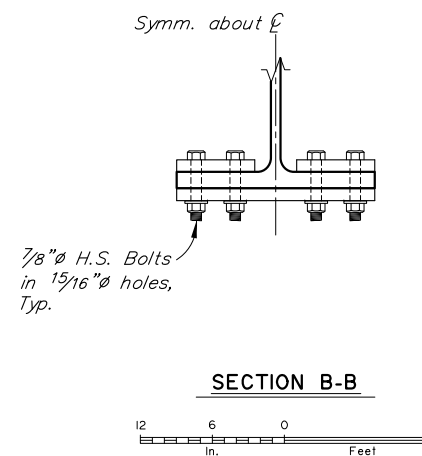
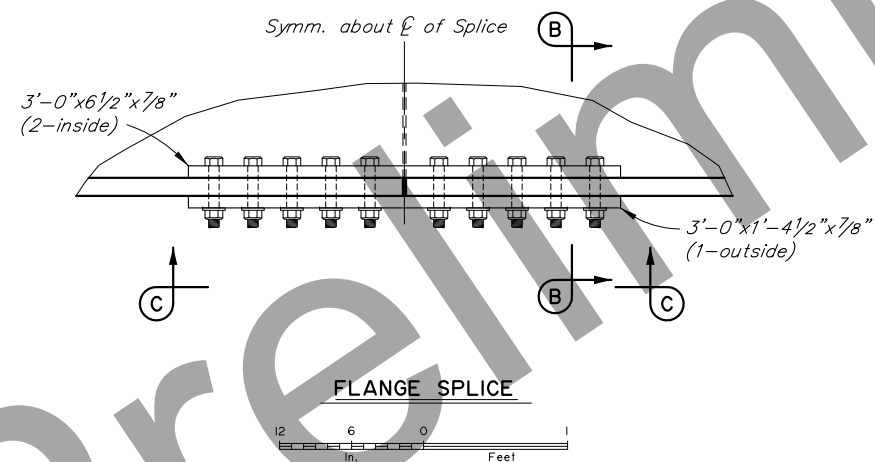
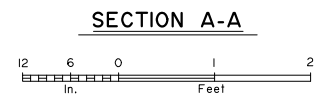
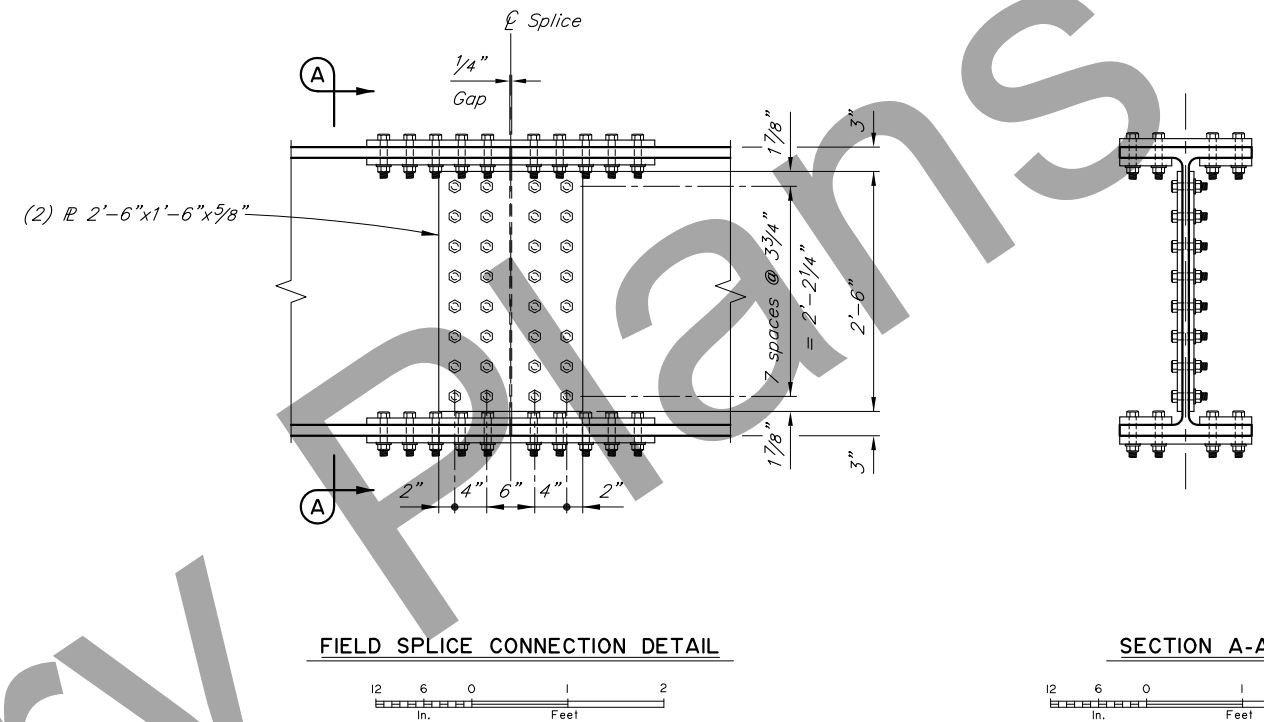
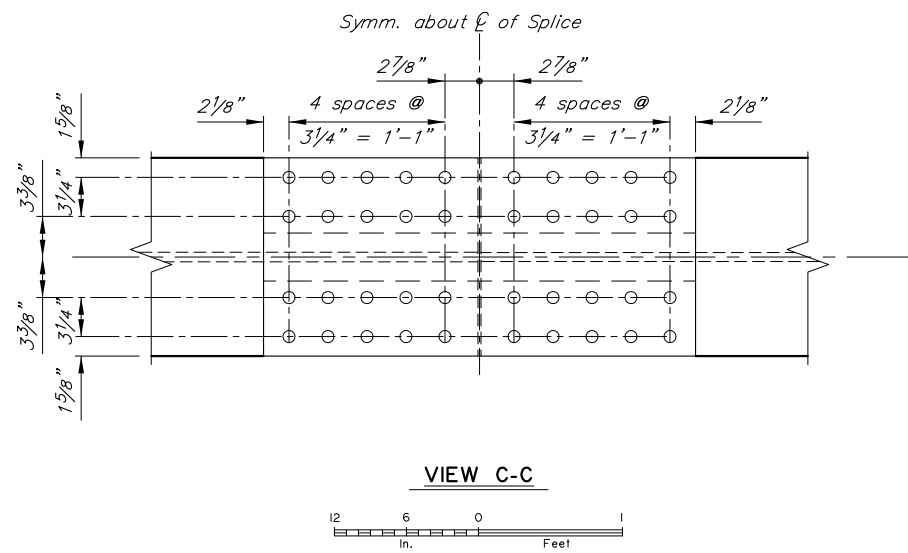
PRELIMINARY PLAN

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

SADIE CREEK BRIDGE
 CAPE BLOSSOM ROAD
 STEEL BEAMS

BRIDGE NO. 1596
 DWG. NO. 12

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	NI3	TtiShts



R:\cadd\1596\1596-1-13 Fri, Jan/22/21 01:39pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
SPLICE DETAILS

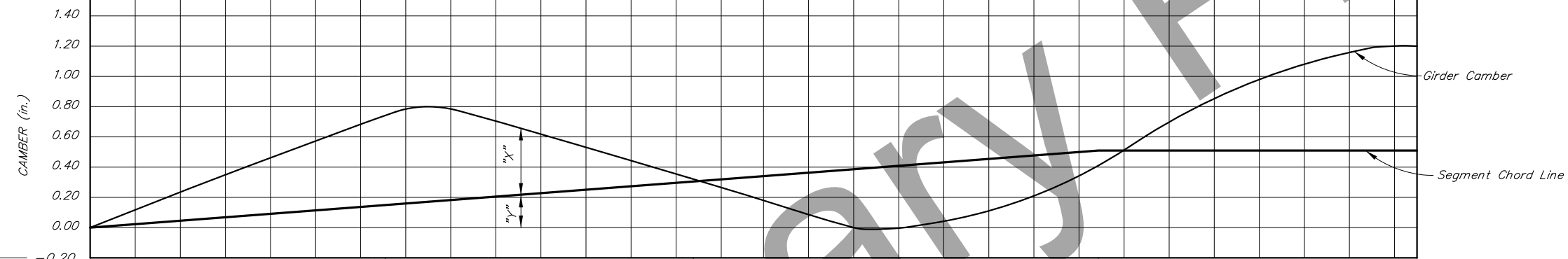


BRIDGE NO. 1596
DWG. NO. 13

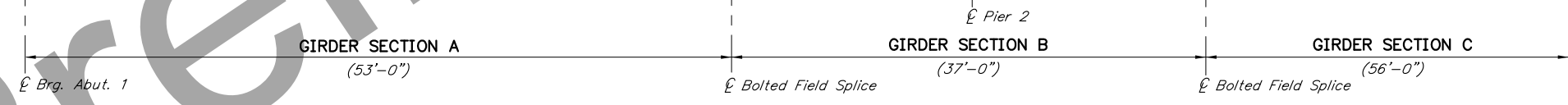
Distance from \bar{L} Brg. Abut. 1 (ft.)	0.0	4.0	8.0	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	44.0	48.0	52.0	56.0	60.0	64.0	68.0	72.0	76.0	80.0	84.0	88.0	92.0	96.0	100.0	104.0	108.0	112.0	116.0	118.0	
Girder + Diaphragm Deflection (in.)	0.00	0.04	0.07	0.10	0.12	0.14	0.15	0.16	0.16	0.15	0.14	0.12	0.10	0.08	0.06	0.03	0.01	0.00	0.00	0.00	0.01	0.03	0.06	0.09	0.12	0.15	0.18	0.21	0.24	0.25	0.25	0.25
Deck Deflection (in.)	0.00	0.09	0.18	0.25	0.32	0.37	0.40	0.42	0.42	0.40	0.37	0.32	0.27	0.21	0.14	0.09	0.09	0.04	0.01	0.00	0.03	0.07	0.11	0.14	0.17	0.20	0.23	0.26	0.28	0.29	0.29	0.28
Rail Deflection (in.)	0.00	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Future Asphalt Overlay (in.)	0.00	0.03	0.06	0.09	0.12	0.13	0.13	0.15	0.15	0.15	0.13	0.12	0.10	0.08	0.05	0.03	0.01	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Roadway Camber (in.)	0.00	-0.04	-0.08	-0.11	-0.13	-0.15	-0.16	-0.17	-0.18	-0.17	-0.15	-0.12	-0.10	-0.08	-0.05	-0.03	-0.01	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Total Deflection (in.)	0.00	0.13	0.25	0.36	0.46	0.53	0.58	0.60	0.60	0.57	0.52	0.45	0.36	0.27	0.18	0.09	0.02	0.00	0.00	0.00	0.03	0.07	0.11	0.14	0.17	0.20	0.23	0.26	0.28	0.29	0.29	0.28
"Y" Segment Chord (in.)	0.00	0.02	0.04	0.06	0.07	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.22	0.24	0.27	0.30	0.33	0.35	0.38	0.41	0.44	0.47	0.49	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
"X" Segment Camber (in.)	0.00	0.11	0.21	0.31	0.38	0.44	0.47	0.47	0.45	0.40	0.33	0.24	0.14	0.03	-0.09	-0.20	-0.30	-0.37	-0.39	-0.36	-0.29	-0.18	-0.06	0.08	0.23	0.37	0.49	0.59	0.65	0.69	0.69	

Camber Notes:

1. Segment Chord line is a straight line through the top of the web connecting the \bar{L} of bearing and \bar{L} field splices.
2. Minimum camber (sum of x+y) is provided. Maximum additional camber may vary up to 1/2" at the mid-span of any span. Additional camber shall vary parabolically in each span.



Distance from \bar{L} Brg. Abut. 1 (ft.)	0.00	26.50	53.00	72.00	90.00	118.00
Girder + Diaphragm Deflection (in.)	0.00	0.16	0.42	0.00	0.11	0.25
Deck Deflection (in.)	0.00	0.42	0.04	0.00	0.28	0.65
Rail Deflection (in.)	0.00	0.04	0.04	0.00	0.03	0.07
Future Asphalt Overlay (in.)	0.00	0.15	0.04	0.00	0.10	0.24
Roadway Camber (in.)	0.00	-0.17	0.04	-0.01	0.00	0.00
Total Deflection (in.)	0.00	0.60	0.25	0.00	0.51	1.20
"Y" Segment Chord (in.)	0.00	0.12	0.25	0.38	0.51	0.51
"X" Segment Camber (in.)	0.00	0.47	0.00	-0.39	0.00	0.69



CAMBER DIAGRAM - I
No Scale


R:\cadd\1596\1596-1-14 Fri, Jan/22/21 01:39pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

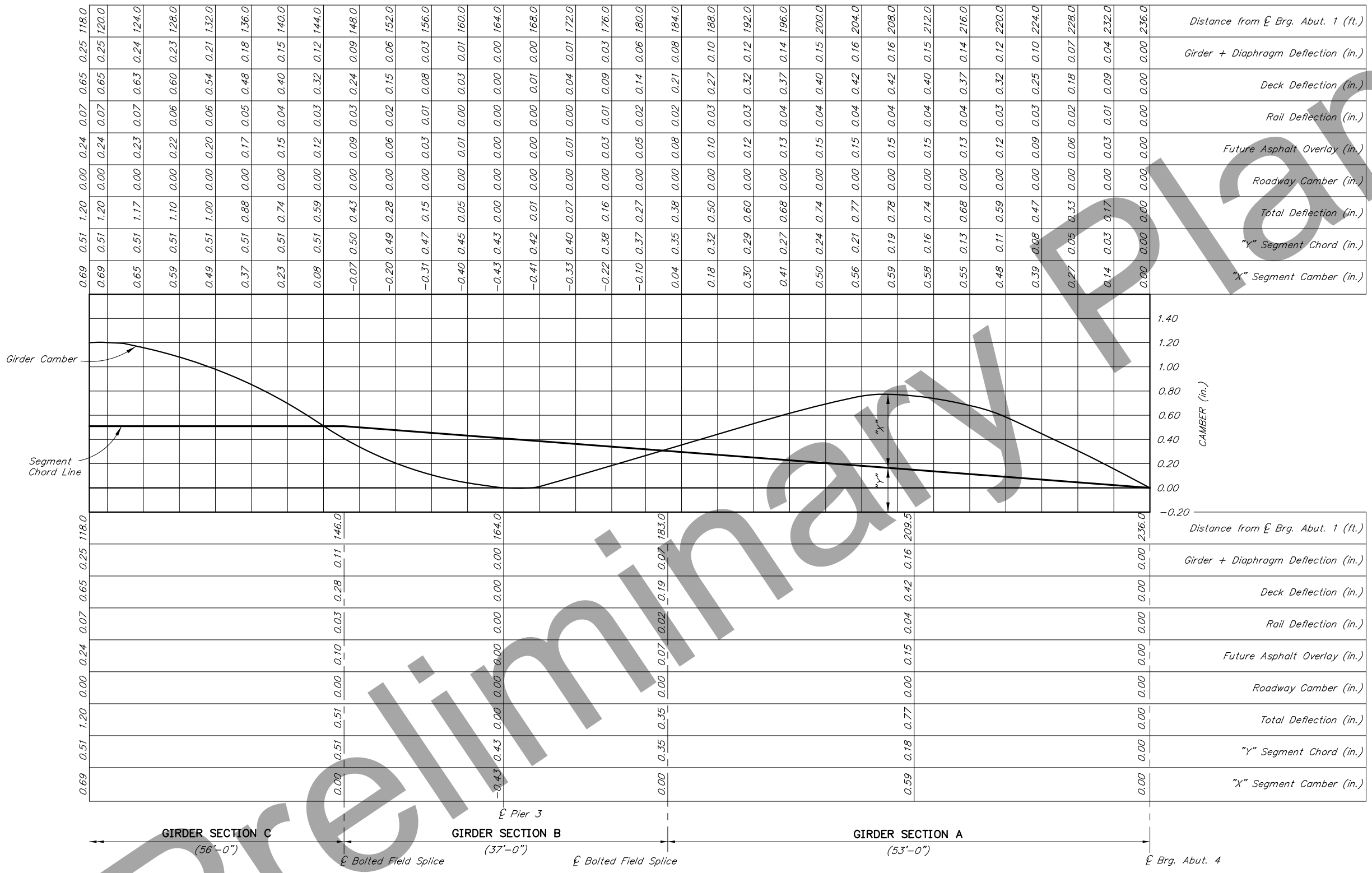
SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
CAMBER DIAGRAM - I



BRIDGE NO. 1596
DWG. NO. 14

Camber Notes:

1. Segment Chord line is a straight line through the top of the web connecting the \bar{E} of bearing and \bar{E} field splices.
2. Minimum camber (sum of x+y) is provided. Maximum additional camber may vary up to $\frac{1}{2}$ " at the mid-span of any span. Additional camber shall vary parabolically in each span.



CAMBER DIAGRAM - II
No Scale

DESIGNED BY: Hannah Bailey
 CHECKED: Leslie Daugherty
 DRAWN BY: Sam Sollie
 CHECKED: Hannah Bailey
 QUANTITIES BY: Hannah Bailey
 CHECKED: Leslie Daugherty

PRELIMINARY PLAN

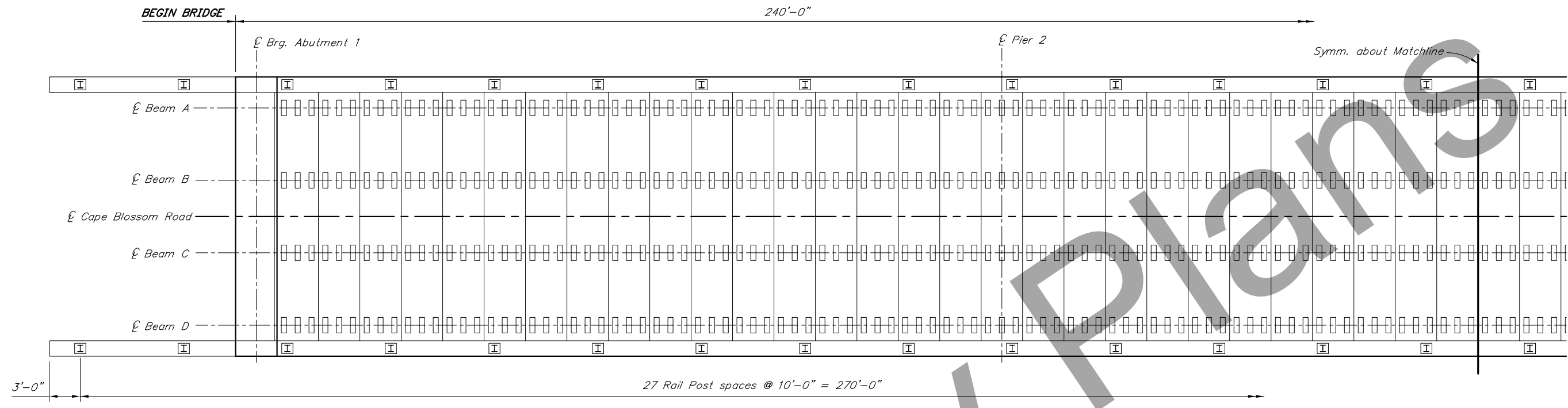
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 BRIDGE SECTION
 3132 Channel Drive
 Juneau, Alaska 99801
 907-465-2975

SADIE CREEK BRIDGE
 CAPE BLOSSOM ROAD
CAMBER DIAGRAM - II

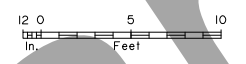

 BRIDGE NO. 1596
 DWG. NO. 15

R:\cadd\1596\1596-1-15 Fri, Jan/22/21 01:39pm

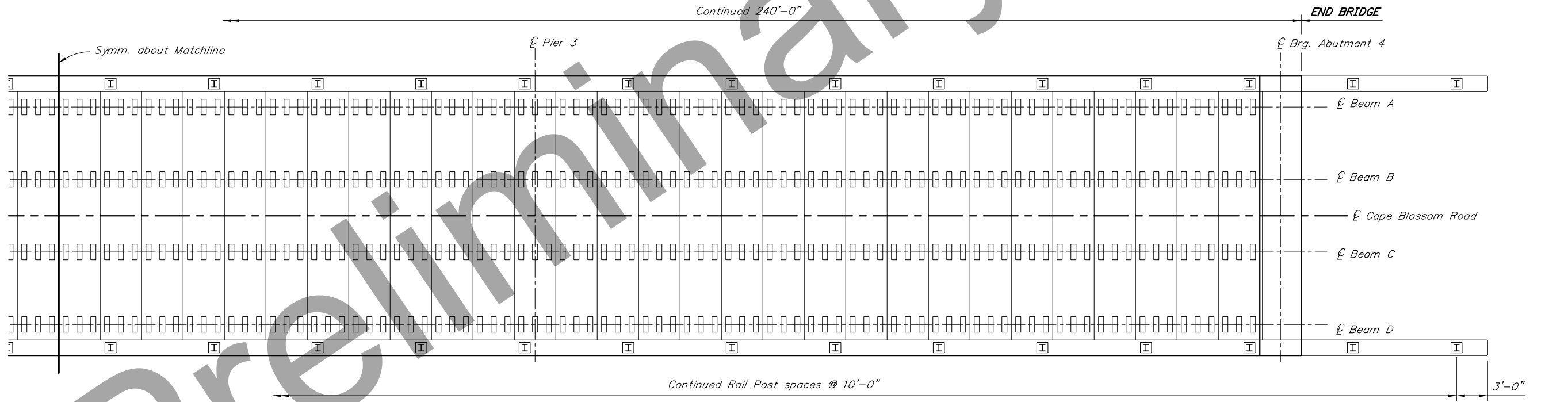
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N16	Tt1Shts



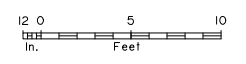
HALF PLAN - DECK LAYOUT 1



Continued 240'-0"



HALF PLAN - DECK LAYOUT 2



R:\cadd\1596\1596-1-16 Fri, Jan/22/21 01:39pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sallie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
DECK PLAN

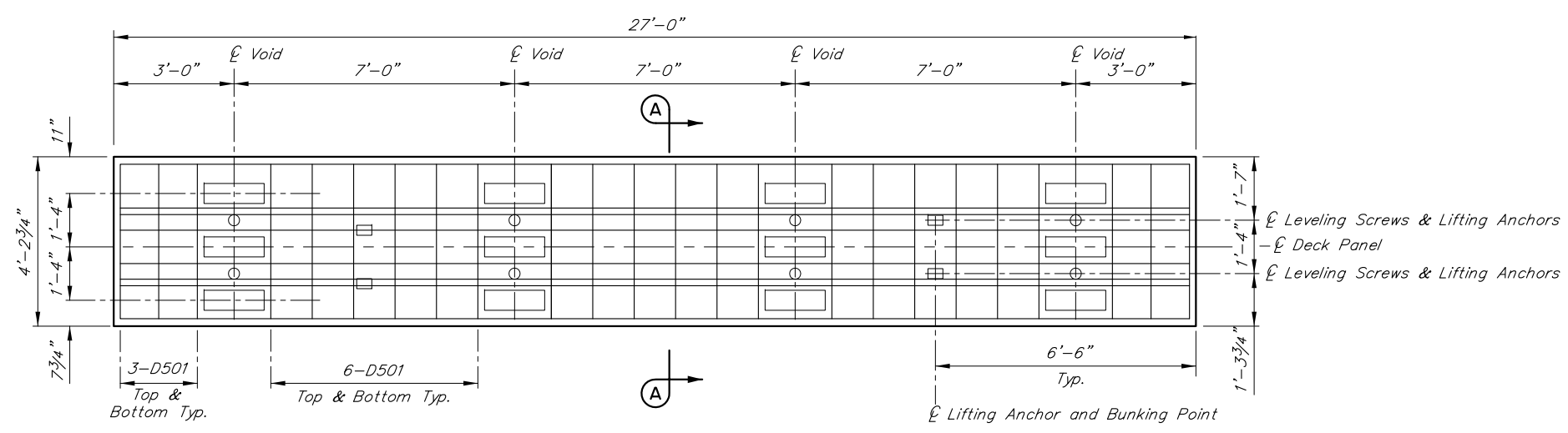


BRIDGE NO. 1596
DWG. NO. 16

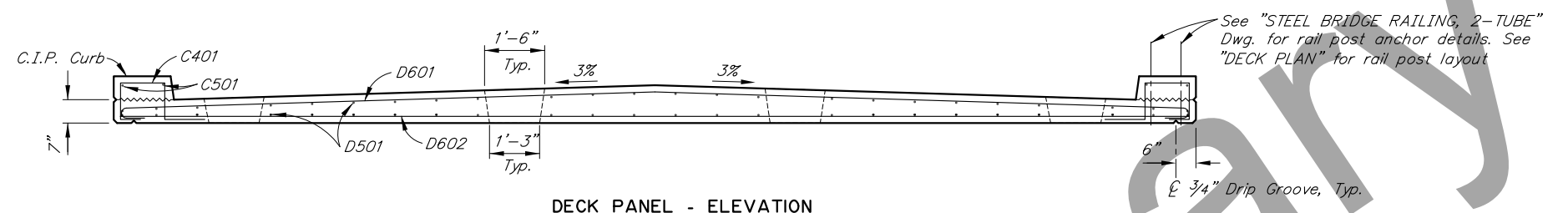
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	NI7	TtiShts

REINFORCING STEEL - ONE EXTERIOR PANEL						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
D501	E	5	48	4'-0"	---	
D601	E,M	6	8	28'-0"	BENT	
D602	E	6	8	26'-8"	---	
C401	E	4	8	4'-5"	BENT	
C501	E,S	5	4	239'-2"	---	

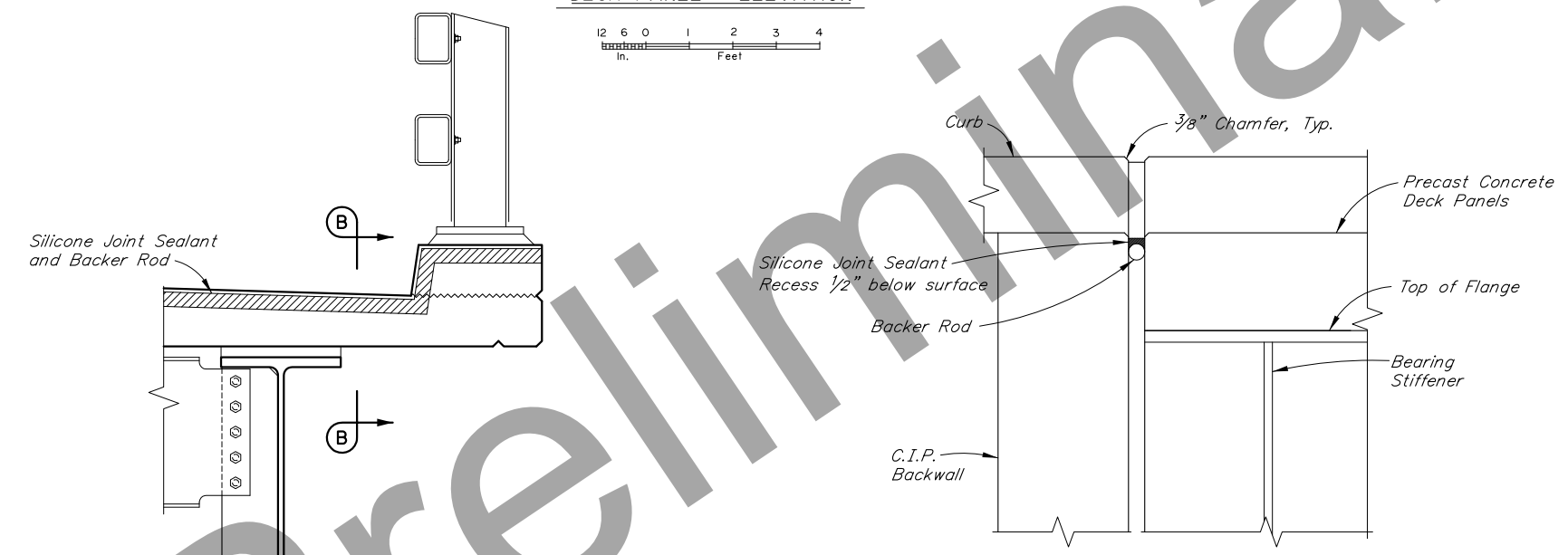
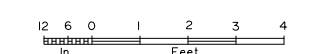
E - Epoxy-Coated
M - Match crown in panels



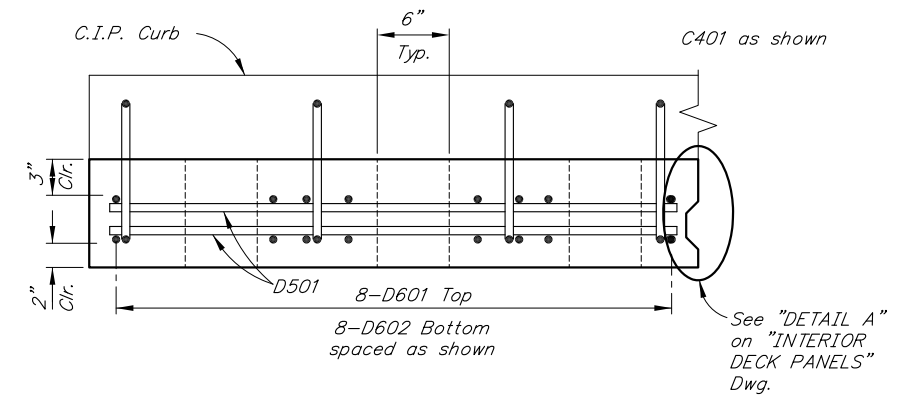
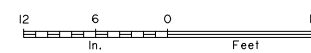
DECK PANEL - PLAN



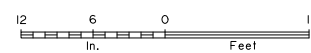
DECK PANEL - ELEVATION



SECTION B-B



SECTION A-A



EXPANSION JOINT



R:\cadd\1596\1596-1-17 Fri, Jan/22/21 01:39pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Solie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

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

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
EXTERIOR DECK PANELS

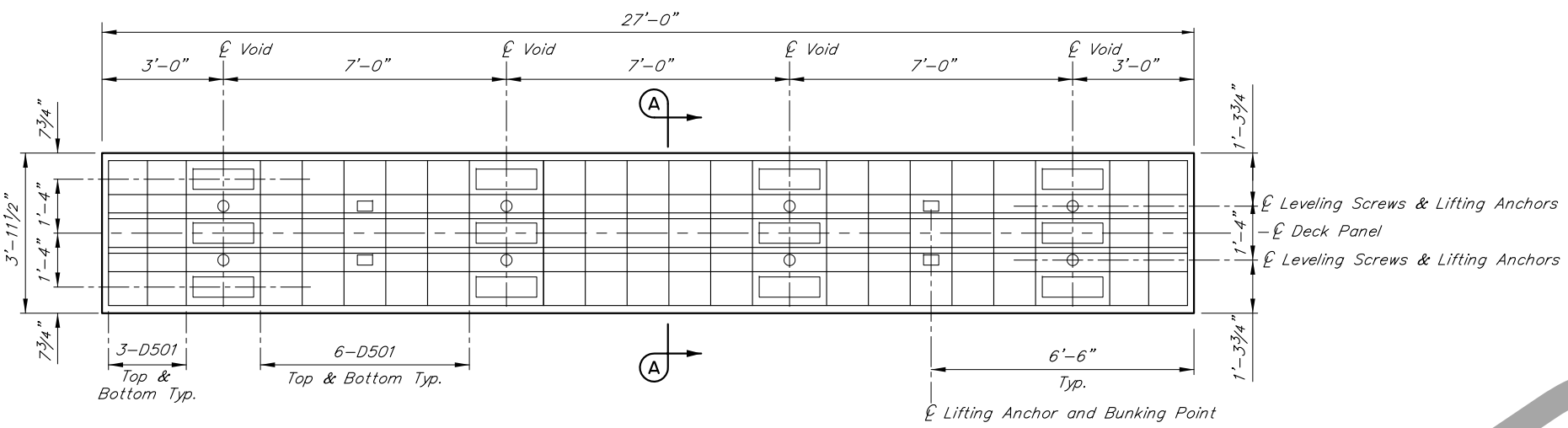


BRIDGE NO. 1596
DWG. NO. 17

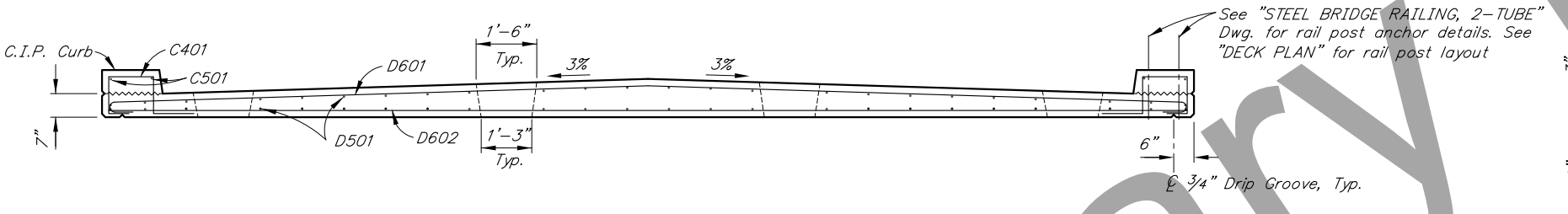
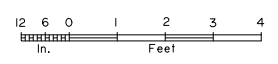
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	N18	Tt1Shts

REINFORCING STEEL - ONE EXTERIOR PANEL						
MARK	NOTE	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
D501	E	5	48	3'-9"	---	
D601	E,M	6	8	28'-0"	BENT	
D602	E	6	8	26'-8"	---	
C401	E	4	8	4'-5"	BENT	

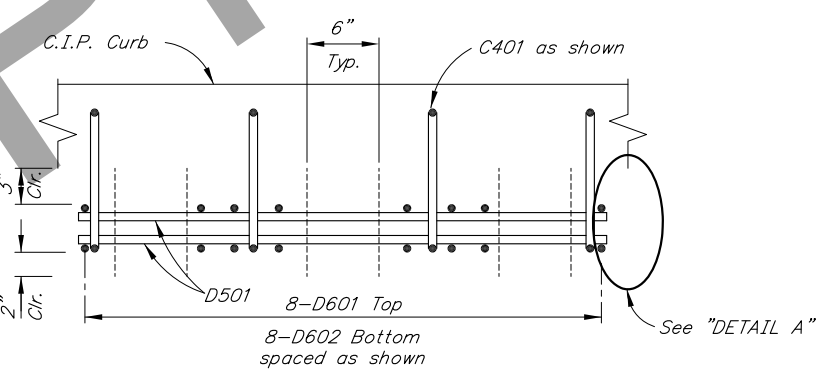
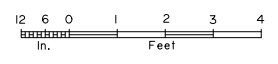
E - Epoxy-Coated
M - Match crown in panels



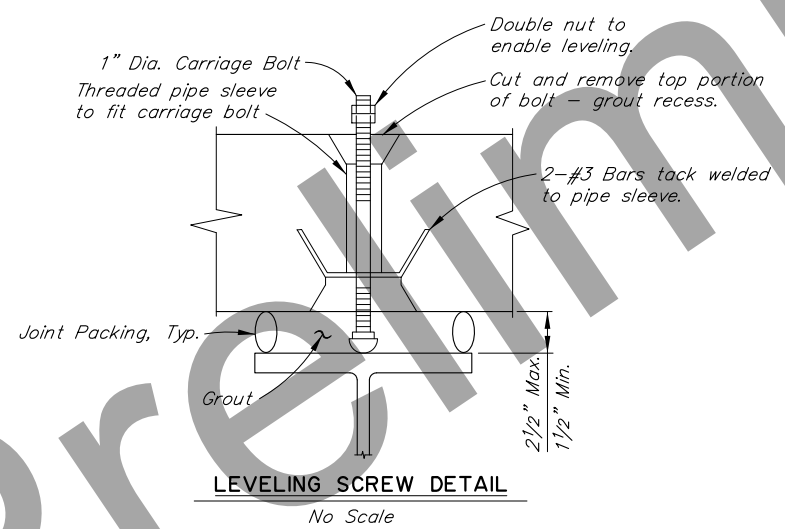
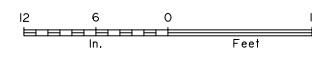
DECK PANEL - PLAN



DECK PANEL - ELEVATION

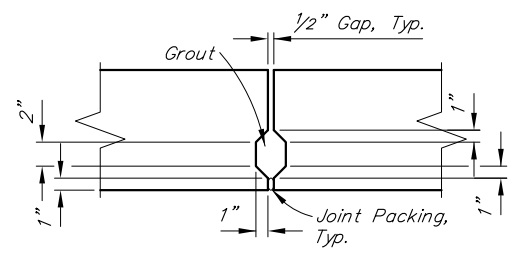


SECTION A-A



LEVELING SCREW DETAIL

No Scale



DETAIL A

No Scale

R:\cadd\1596\1596-1-18 Fri, Jan/22/21 01:39pm

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sallie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

PRELIMINARY PLAN

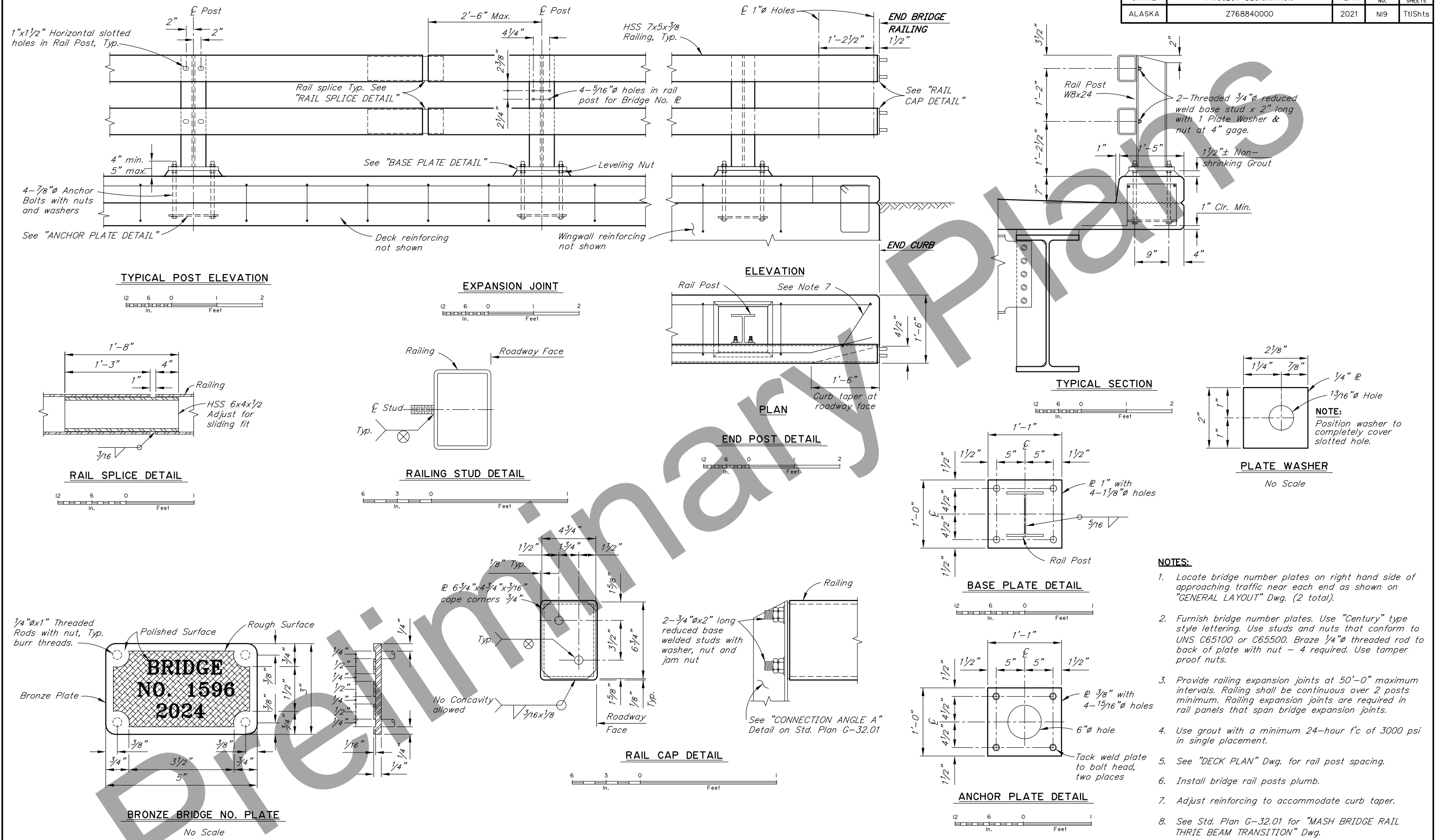
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION
3132 Channel Drive
Juneau, Alaska 99801
907-465-2975

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
INTERIOR DECK PANELS



BRIDGE NO. 1596
DWG. NO. 18

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	Z768840000	2021	NI9	TtiShts



- 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" threaded rod to back of plate with nut - 4 required. Use tamper proof nuts.
 3. Provide railing expansion joints at 50'-0" maximum intervals. Railing shall be continuous over 2 posts minimum. Railing expansion joints are required in rail panels that span bridge expansion joints.
 4. Use grout with a minimum 24-hour f'c of 3000 psi in single placement.
 5. See "DECK PLAN" Dwg. for rail post spacing.
 6. Install bridge rail posts plumb.
 7. Adjust reinforcing to accommodate curb taper.
 8. See Std. Plan G-32.01 for "MASH BRIDGE RAIL THRIE BEAM TRANSITION" Dwg.

DESIGNED BY: Hannah Bailey	CHECKED: Leslie Daugherty
DRAWN BY: Sam Sollie	CHECKED: Hannah Bailey
QUANTITIES BY: Hannah Bailey	CHECKED: Leslie Daugherty

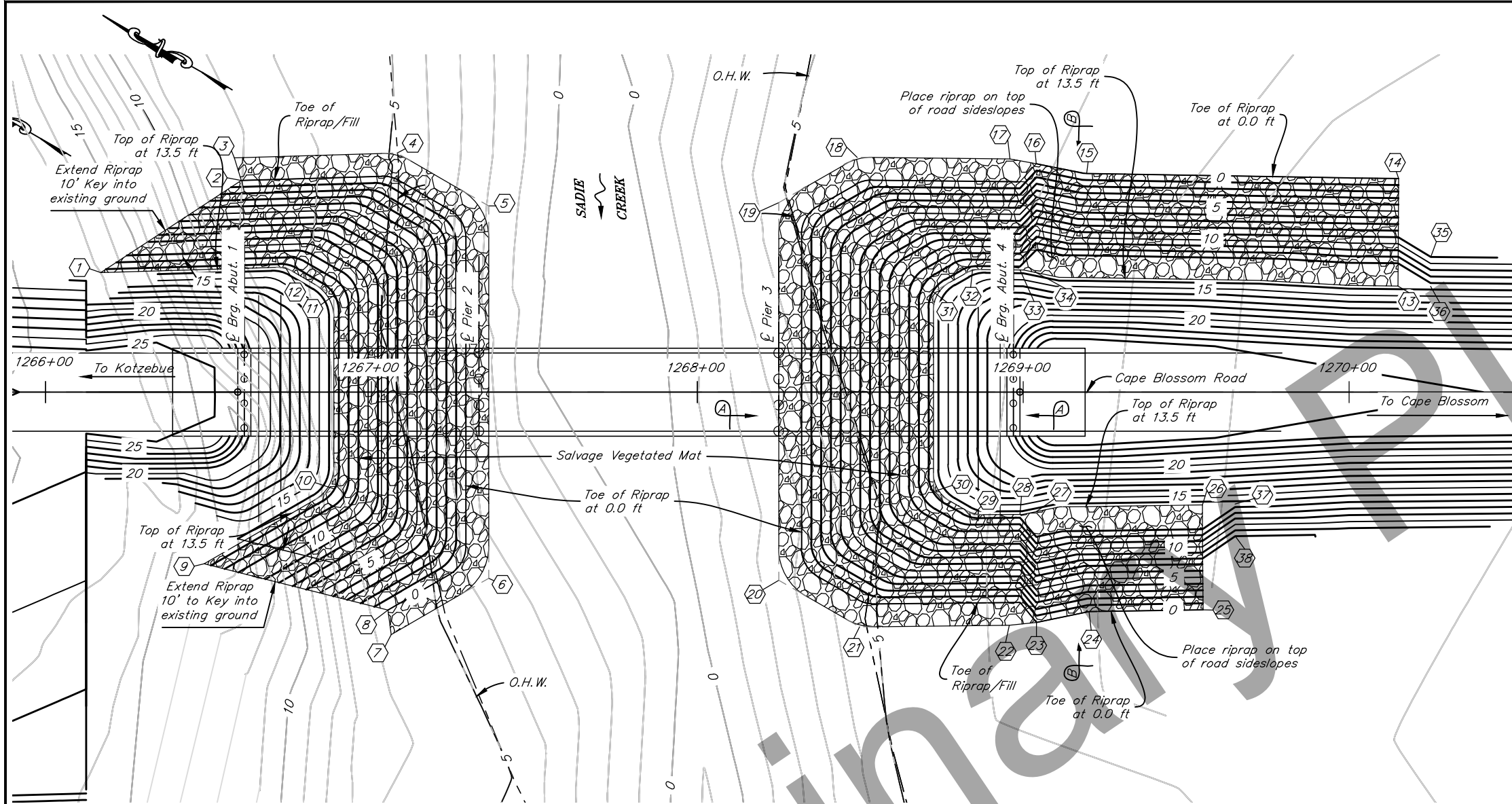
PRELIMINARY PLAN

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

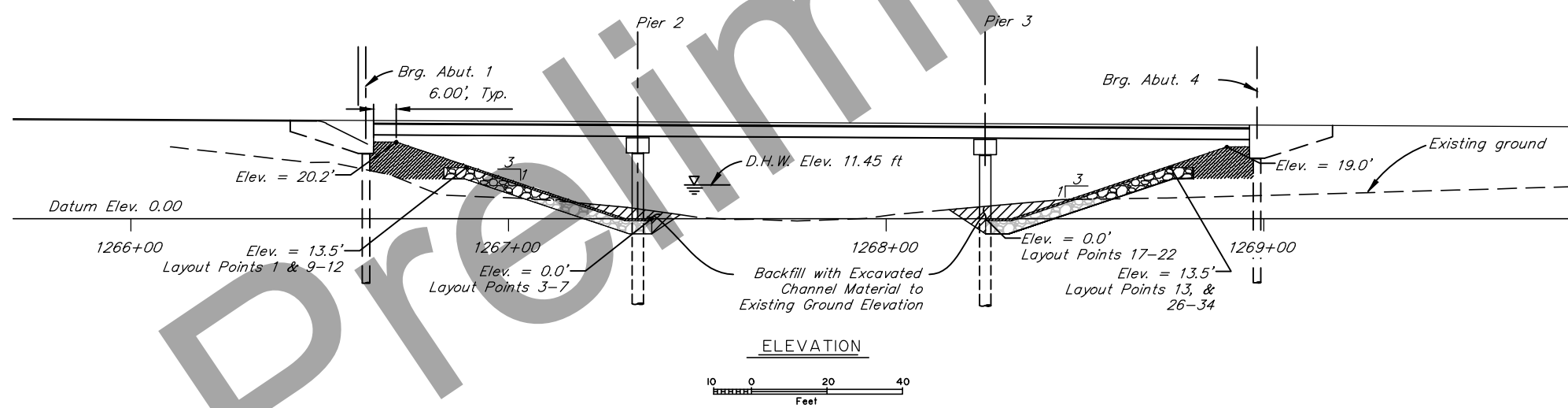
SADIE CREEK BRIDGE
 CAPE BLOSSOM ROAD
STEEL BRIDGE RAILING, 2-TUBE

BRIDGE NO. 1596
 DWG. NO. 19

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RIPRAP LAYOUT
 10 0 20 40
 Feet



ELEVATION
 10 0 20 40
 Feet

Hydraulic & Hydrologic Summary, Bridge No. 1596

Flood Frequency (yr.)	50	100	500
Exceedance Probability (%)	2	1	0.2
Discharge (CFS)	699	827	1,150
Velocity (ft/s)	1.41	1.50	1.72
Water Surface Elevation (ft)	11.5	11.6	12.1
Anticipated Add'l Backwater (ft)	1.52	1.38	1.30
Contraction Scour (ft)	3.7	4.7	5.7
Natural Channel Scour (ft)	1.1	1.3	1.5
Pier Scour (ft)	8.0	8.5	8.6
Total Scour at Abutment (ft)	4.8	6.0	7.2
Total Scour at Piers (ft)	9.1	9.8	10.1

- Notes:
- All elevations based on NAVD88.
 - Section views are 1H:1V.
 - Riprap layout points are in a table on Sheet N4.
 - Salvage vegetated mat within proposed riprap when in fill. Place vegetated mat on top of installed riprap. Use excavated material on top of riprap when in cut.
 - Avoid causing damaging bridge piers when placing riprap and geotextile.

File Path: T:\128262 - Kotzebue Cape Blossom EA\08-CADD\DWG\Sadie Creek Rip. Rip.dwg -- Date: Mar 31, 2021 11:41am -- Devon.Roe

DESIGNED BY: Alaina Smith	CHECKED: Derek Christianson
DRAWN BY: Steven Orizotti	CHECKED: Derek Christianson
QUANTITIES BY: Alaina Smith	CHECKED: Derek Christianson

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 BRIDGE SECTION
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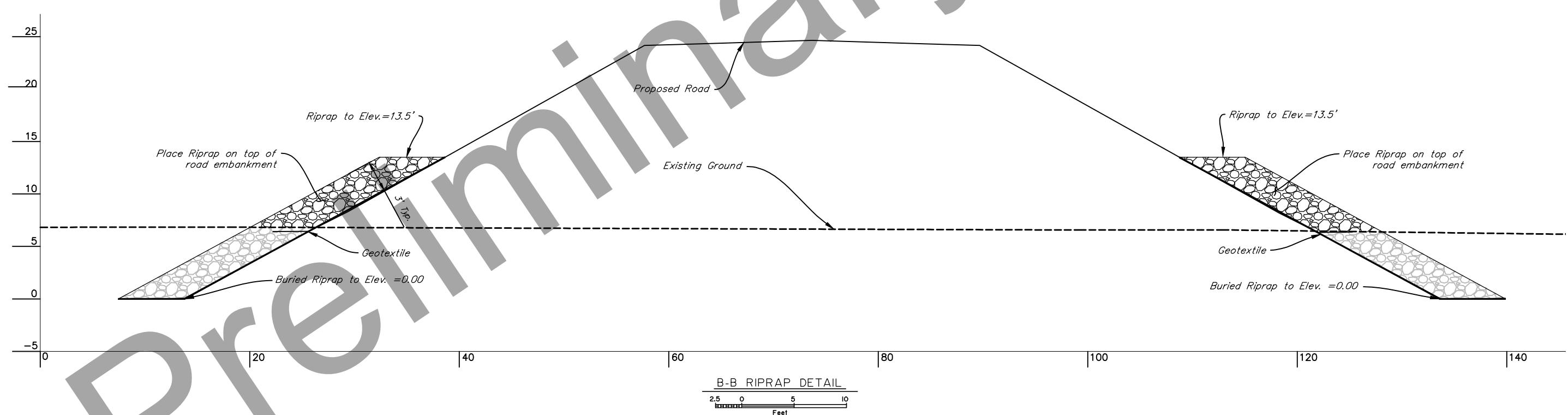
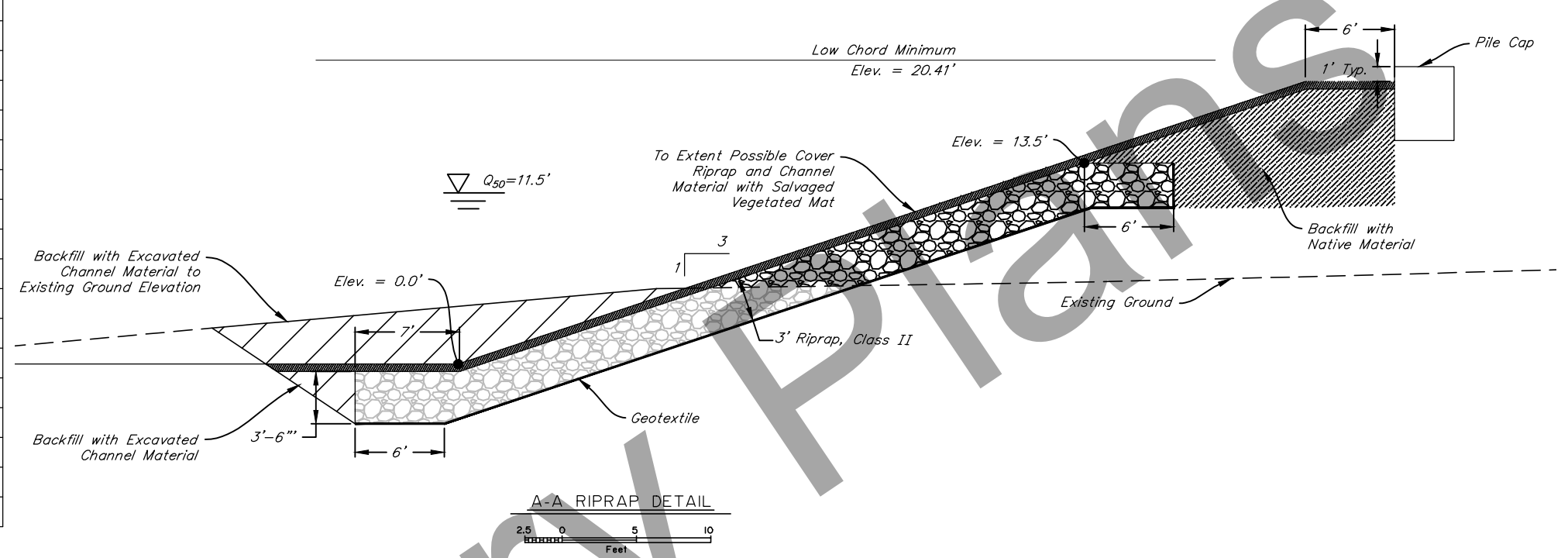
SADIE CREEK BRIDGE
 CAPE BLOSSOM ROAD
 RIPRAP LAYOUT



BRIDGE NO. 1596
 DWG. NO. 3

Riprap Table			
Point	Station	Offset	Elev.
1	1266+16.95	36.7 - Left	13.5'
2	1266+60.10	64.9 - Left	0.0'
3	1266+57.92	71.9 - Left	0.0'
4	1267+07.88	73.3 - Left	0.0'
5	1267+36.00	57.1 - Left	0.0'
6	1267+36.00	57.1 - Right	0.0'
7	1267+06.09	74.4 - Right	0.0'
8	1267+05.05	66.9 - Right	0.0'
9	1266+48.67	52.7 - Right	13.5'
10	1266+88.50	29.7 - Right	13.5'
11	1266+88.50	29.7 - Left	13.5'
12	1266+73.52	38.3 - Left	13.5'
13	1270+14.99	32.5 - Left	13.5'
14	1270+15.19	65.5 - Left	0.0'
15	1269+19.47	67.1 - Left	0.0'
16	1269+04.00	70.0 - Left	0.0'
17	1268+95.92	71.5 - Left	0.0'
18	1268+49.07	72.0 - Left	0.0'
19	1268+25.03	58.1 - Left	0.0'

Riprap Table			
Point	Station	Offset	Elev.
20	1268+25.03	57.7 - Right	0.0'
21	1268+49.77	72.0 - Right	0.0'
22	1268+95.73	71.5 - Right	0.0'
23	1269+04.04	70.7 - Right	0.0'
24	1269+20.20	67.3 - Right	0.0'
25	1269+55.23	66.8 - Right	0.0'
26	1269+54.99	34.6 - Right	13.5'
27	1269+04.00	36.7 - Right	13.5'
28	1269+99.00	37.5 - Right	13.5'
29	1268+84.85	37.6 - Right	13.5'
30	1268+72.49	30.5 - Right	13.5'
31	1268+72.49	30.7 - Left	13.5'
32	1268+84.44	37.6 - Left	13.5'
33	1268+99.00	37.5 - Left	13.5'
34	1269+04.00	36.6 - Left	13.5'
35	1270+25.04	41.4 - Left	0.0'
36	1270+24.98	32.4 - Left	13.5'
37	1269+64.98	34.3 - Right	13.5'
38	1269+65.06	44.2 - Right	0.0'



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DESIGNED BY: Alaina Smith	CHECKED: Derek Christianson
DRAWN BY: Steven Orizotti	CHECKED: Derek Christianson
QUANTITIES BY: Alaina Smith	CHECKED: Derek Christianson

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

SADIE CREEK BRIDGE
CAPE BLOSSOM ROAD
RIPRAP DETAIL



BRIDGE NO. 1596
DWG. NO. 4

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHWY00718	2022	Q1	Q1

ESCP NOTES:

1. CONTROLS

A. TEMPORARY EROSION AND SEDIMENT CONTROLS

- I. SEDIMENT CONTROLS AT CULVERT INLETS AND OUTLETS.
- II. SEDIMENT CONTROLS INSTALLED AT THE TOE OF SLOPE WHERE SELECTED MATERIAL, TYPE B OR IS PLACED.
- III. PERIMETER PROTECTION TO BE PLACED AROUND ANY AREAS OF EXPOSED ERODIBLE SOILS.
PROVIDE PERIMETER PROTECTION AT THE TOE CONSISTING OF ONE OF THE FOLLOWING CONTROLS:
20-FOOT VEGETATIVE BUFFER BEYOND TEMPORARY WORK AREA, GRAVEL, FIBER ROLL, SILT FENCE, OR EQUIVALENT APPROVED BY THE ENGINEER. PERIMETER PROTECTION WILL BE PROVIDED FOR ALL SLOPES NOT HAVING ESTABLISHED PERMANENT STABILIZATION.
- IV. WETLANDS ADJACENT TO DISTURBED GROUND MUST BE PROTECTED.
- V. ALL IN-WATER WORK SHALL BE ISOLATED FROM FLOWING WATER.
- VI. ALL CONCRETE WASHOUTS WILL BE DISPOSED OF IN A LINED CONTAINMENT AREA DESIGNATED IN THE CONTRACTORS SWPPP.

B. STABILIZATION

I. SEASONAL SUSPENSION OF WORK.

1. THE CONTRACTOR SHALL STABILIZE ERODIBLE SLOPES PRIOR TO SEASONAL SUSPENSION OF WORK. SLOPE STABILIZATION SHALL BE MAINTAINED THROUGHOUT SPRING THAW UNTIL EARTH DISTURBING ACTIVITIES ARE RESUMED.
2. PROVIDE PERIMETER PROTECTION AT THE TOE CONSISTING OF ONE OF THE FOLLOWING CONTROLS:
25-FOOT VEGETATIVE BUFFER BEYOND TEMPORARY WORK AREA, GRAVEL OR SNOW BERM, FIBER ROLL, OR SILT FENCE. PERIMETER PROTECTION WILL BE PROVIDED FOR ALL SLOPES NOT HAVING ESTABLISHED PLANT GROWTH.
3. ALL WORK DONE AFTER SEEDING CUT-OFF DATES AND ALL AREAS WHERE SEED IS NOT ESTABLISHED ON DATE OF SEASONAL SUSPENSION OF WORK SHALL BE MULCHED AND TACKIFIED FOR SEASONAL SHUTDOWN.
4. MULCH USED FOR SEASONAL SLOPE STABILIZATION MUST BE WARRANTIED BY THE MANUFACTURER FOR 6 MONTHS AFTER APPLICATION AND BE USED WITH TACKIFIERS.
5. ALL DRAINAGE PIPE INLETS WILL BE PROTECTED BY ENCIRCLING THE INLET WITH LOW PROFILE FIBER ROLLS, COMPOST ROLLS, SYNTHETIC BARRIERS, OR EQUIVALENT.

II. PERMANENT

1. SIDESLOPE SEEDING WITH 70% ESTABLISHED GROWTH AND MAINTAINING EXISTING VEGETATION WILL BE THE PRIMARY PERMANENT STABILIZATION.
2. DISTURBED GROUND WILL BE STABILIZED BY PERMANENT SEEDING, MULCHING, AND THE APPLICATION OF TACKIFIERS.

2. ADDITIONAL NOTES

- A. VEGETATIVE BUFFER SHALL SERVE AS THE PRIMARY PERIMETER CONTROL AT SLOPE TOES. ALTERNATIVE PERIMETER CONTROL MEASURES WILL BE REQUIRED IN AREAS WHERE A 20' VEGETATIVE BUFFER IS NOT AVAILABLE.
- B. PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES IN THE AREA OF WORK.
- C. THE CONTRACTOR WILL PROVIDE EROSION AND SEDIMENT CONTROL (ESC) MEASURES IN ACCORDANCE WITH THEIR SWPPP. DOT&PF'S PROJECT ENGINEER MAY REQUIRE ADDITIONAL ESC MEASURES AS FIELD CONDITIONS DICTATE.

TEMPORARY WORK AREA NOTES:

1. AN 18-FOOT TEMPORARY WORK AREA IS PERMITTED ALONG THE ROAD CORRIDOR BEYOND THE DESIGN TOE-OF-SLOPE FOR EQUIPMENT ACCESS AND SNOW REMOVAL. FOR CULVERTS THIS TEMPORARY WORK AREA IS 25' BEYOND THE CULVERT ENDS. SEE PERMIT CONDITIONS.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID DAMAGING AND PLACING ANY FILL MATERIAL WITHIN THE TEMPORARY WORK AREA, INCLUDING RESIDUAL IMPACTS AND FILL ASSOCIATED WITH SNOW REMOVAL EFFORTS.
3. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL MARK THE BOUNDARIES OF PERMIT AREAS AS DESCRIBED IN SPEC SECTION 642.
4. EQUIPMENT SHALL NOT BE OPERATED OR PARKED BEYOND THE BOUNDARY.
5. CONSTRUCTION MATERIALS AND SUPPLIES MAY NOT BE STORED OR STAGED BEYOND THIS BOUNDARY.
6. NO TEMPORARY OR PERMANENT FILL SHALL BE PLACED BEYOND THIS BOUNDARY.

PROJECT SITE-SPECIFIC CONDITIONS

1. DRAINAGE FROM THE ROADWAY IS TO THE SOUTH AND WEST TOWARD THE KOTZEBUE SOUND. SURFACE WATER OVERLAYS THE LOWLAND TUNDRA IN THE SUMMER. THE AREA PAST THE EXISTING TOE IS WETLANDS.
2. TYPE OF VEGETATION: CONTAINS BUT IS NOT LIMITED TO GRASS, SEDGES, AND DWARF WILLOWS.

PROJECT AREAS

TOTAL PROJECT AREA: 263 ACRES (ROW EXTENTS)
TOTAL DISTURBED: 39.2 ACRES
USACE (WETLANDS & WATERS OF THE U.S.): 39.2 ACRES

PERCENTAGE IMPERVIOUS AREA BEFORE CONSTRUCTION: 0%
RUNOFF COEFFICIENT BEFORE CONSTRUCTION: ~0.16
PERCENTAGE IMPERVIOUS AREA AFTER CONSTRUCTION: 50%
RUNOFF COEFFICIENT AFTER CONSTRUCTION: ~0.355

3. ESSENTIAL FISH HABITAT IS PRESENT WITHIN PROJECT ROW LIMITS AT SADIE CREEK. FISH SPECIES INCLUDE: STICKLEBACKS, PIKE, AND WHITE FISH.
4. IMPAIRED WATERS: NONE
5. BASED ON USFWS AND ADFG DATA: POLAR BEAR, STELLER EIDER AND SPECTACLED EIDERS ENDANGERED SPECIES ZONE 7
6. NO HISTORIC PROPERTIES: SHPO CONCURRENCE IN APPENDIX B

RUN-OFF COEFFICIENTS

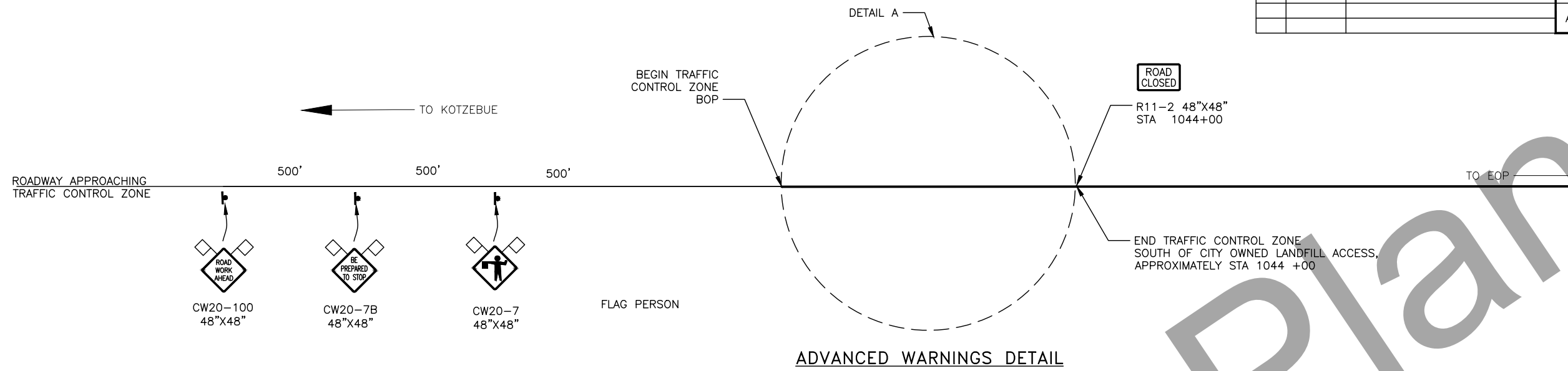
TYPE OF SURFACE	RUNOFF COEFFICIENT (C)
PAVED	0.7-0.9
GRAVEL ROADWAY OR SHOULDERS	0.4-0.6
CUT, FILL SLOPES	0.5-0.7
GRASSED AREAS	0.1-0.7
WOODS	0.1-0.3

NOTE:

FROM HYDRAULIC CIRCULAR #12, "DRAINAGE OF HIGHWAY PAVEMENTS", MARCH 1984, PAGE 12. FOR FLAT SLOPES AND/OR PERMEABLE SOILS, USE LOWER VALUE. FOR STEEP SLOPES AND/OR IMPERMEABLE SOILS, USE HIGHER VALUES.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002204/NFHwy00718	2022	T1	T1



ADVANCED WARNINGS DETAIL

NOTES:

1. THE CONTRACTOR SHALL PREPARE FORMAL TRAFFIC CONTROL PLANS BASED ON THE GENERAL TRAFFIC CONTROL SCHEME SHOWN ON THIS SHEET AS COORDINATED WITH ACTUAL FIELD CONDITIONS. CONTRACTOR SHALL SUBMIT FOR ENGINEER APPROVAL PER 643-1.03.
2. ADVANCED WARNINGS MUST BE UTILIZED ALONG HILLSIDE DRIVE AS WELL AS THE ROAD HEADING SOUTH FROM THE AIRPORT.
3. SPEED LIMIT REDUCTIONS MUST BE IN ACCORDANCE WITH ADOT&PF POLICY AND PROCEDURE NUMBER 05.05.20.
4. CONTRACTOR MUST MAINTAIN PUBLIC ACCESS TO THE CITY LANDFILL AT ALL TIMES. CONTRACTOR MAY CLOSE THE ROAD TO PUBLIC ACCESS BEYOND THE CITY LANDFILL, EXCEPT PER NOTES 5 AND 6.
5. CONTRACTOR MUST PROVIDE ACCESS FOR UNITED STATES DEPARTMENT OF THE AIR FORCE (USAF) PERSONNEL TO USAF LANDS WITHIN THE PROJECT AREA.
6. CONTRACTOR MUST PROVIDE ACCESS FOR KOTZEBUE ELECTRIC ASSOCIATION (KEA), GCI, KOTZ RADIO, AND ASSOCIATED PERSONNEL AS NEEDED, WITHIN AND THROUGH THE PROJECT AREA.
7. CONTRACTOR MUST MAINTAIN TEMPORARY ACCESS TO ALL EXISTING APPROACHES IN THE PROJECT AREA UNTIL FINAL APPROACH GRADE IS CONSTRUCTED, AS DIRECTED BY THE ENGINEER.



PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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TRAFFIC CONTROL PLAN

