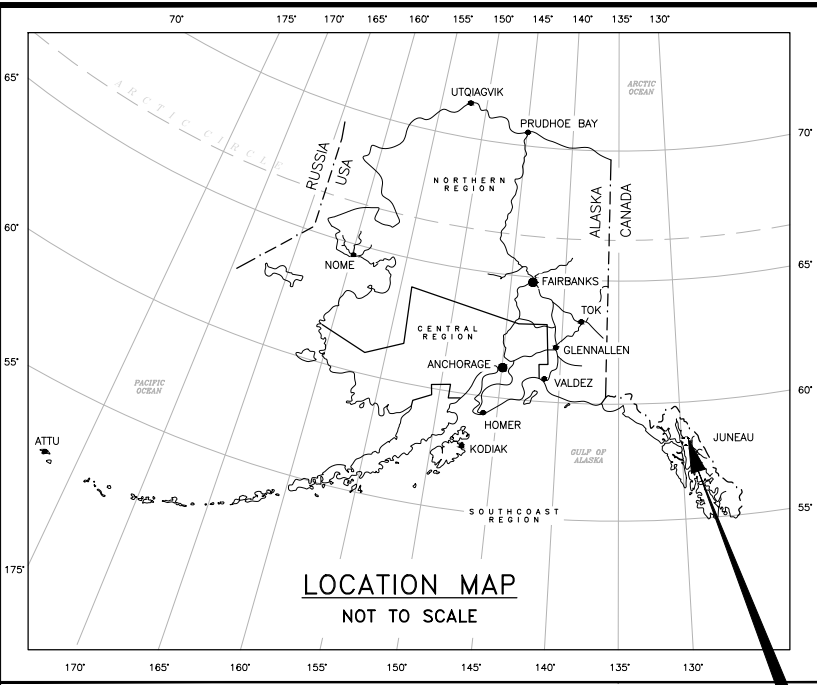


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	A1	20
			CDS ROUTE:	296000	MILEPOINT:	34.9 TO 40.0	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
JNU BRIDGET COVE CREEK CULVERT REPLACEMENT
003267/SFHwy00359
GRADING, DRAINAGE, PAVING, AND STRIPING

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET & LAYOUT
A2	LEGEND
A3	SURVEY CONTROL
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	SUMMARY TABLES
E1-E6	DETAILS
F1	PLAN & PROFILE
H1	STRIPING
J1	PIPE PLAN & PROFILE
Q1-Q2	EROSION SEDIMENT CONTROL PLANS
T1-T3	TRAFFIC CONTROL PLANS

PROJECT LOCATION: JUNEAU
M&O STATION: JUNEAU

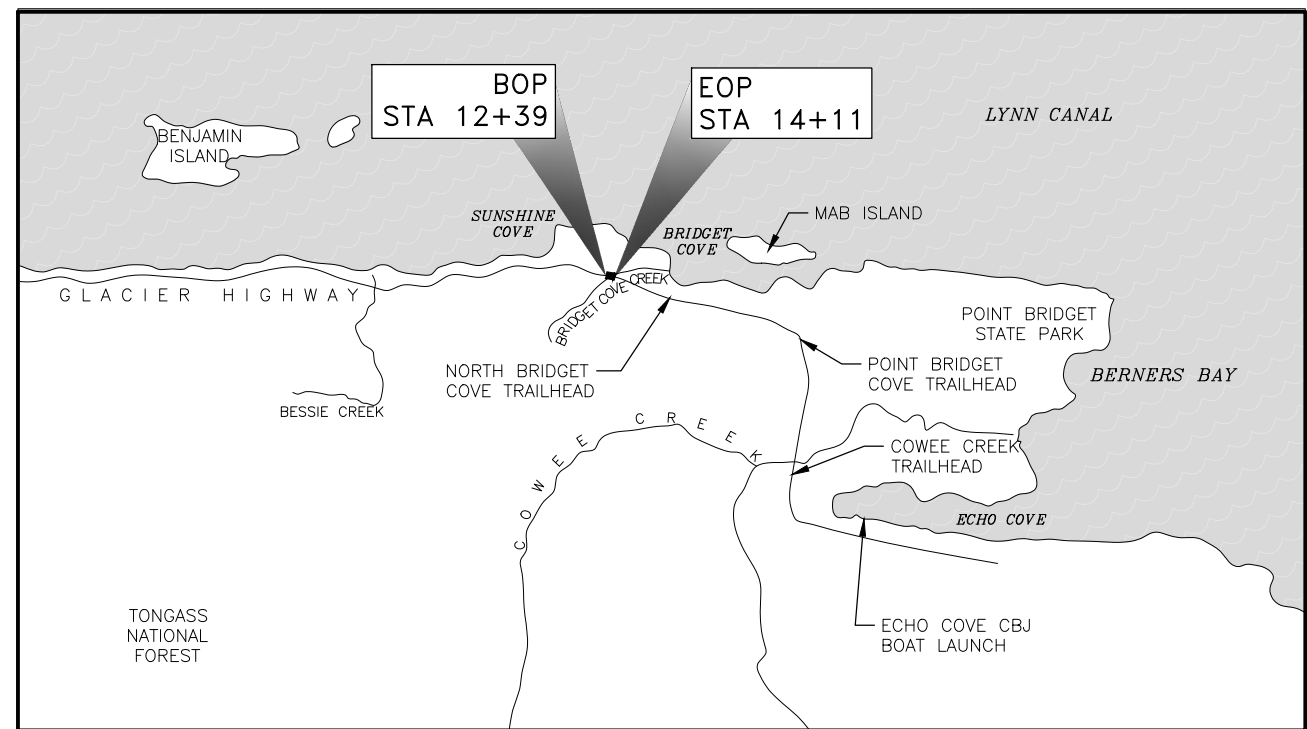
THE FOLLOWING ALASKA STANDARD PLANS APPLY TO THIS PROJECT:

- D-01.02 T-21.04
- D-04.22

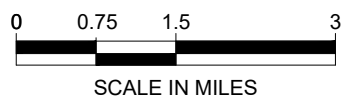
PROJECT SUMMARY	
MAJOR ROADWAYS	GLACIER HWY
WIDTH OF PAVEMENT	30 FT
LENGTH OF PAVING	172 FT
LENGTH OF PROJECT	172 FT

DESIGN DESIGNATIONS	
PROJECT TYPE	RECONSTRUCTION
FUNCTIONAL CLASSIFICATION	RURAL ARTERIAL
AADT (2021)	190
AADT (2043)	200
DHV (2021)	31
DHV (2043)	33
PERCENT COMMERCIAL TRUCKS (T)	2.5%
DIRECTIONAL SPLIT	59 / 41
DESIGN SPEED (V)	50 MPH
DESIGN ESAL (20 YEARS)	100,000

BRETT M WELLS, P.E. PROJECT MANAGER
RICHELLE K MOCKLER MARTENS, DESIGNER



VICINITY MAP
JUNEAU



COMBINED
PIHPS&E REVIEW -
NOT FOR
CONSTRUCTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: _____ DATE _____

Kirk Miller, P.E.
Preconstruction Engineer, Southcoast Region

ACCEPTED FOR CONSTRUCTION: _____ DATE _____

Christopher Goins, P.E., C.M.
Regional Director, Southcoast Region

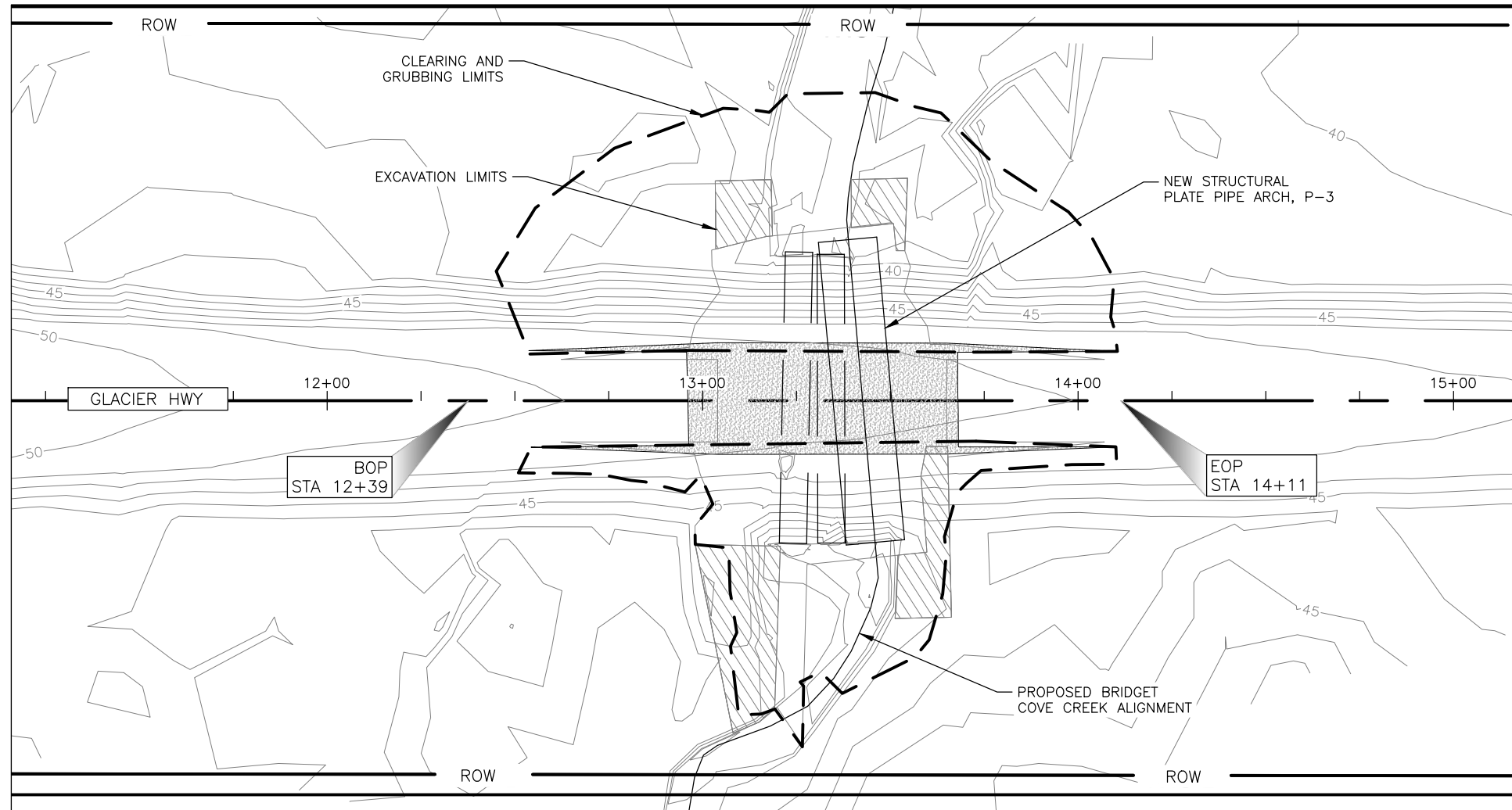
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	A2	20

LEGEND

CLEARING		FILL LIMITS		ROW MARKER - CONCRETE POST	
CLEARING AND GRUBBING		FILL LIMITS (TEMPORARY)		SEEDING	
CONTOURS CONTROL POINT MONUMENT		FISH PASSAGE		SELECTED MATERIAL, TYPE A	
CONSTRUCTION CENTERLINE		FLOW DIRECTION (SURFACE)		SELECTED MATERIAL, TYPE C	
CONSTRUCTION CENTERLINE (SHOEFLY DIVERSION)		GROUND - UNDISTURBED		SEPARATION GEOTEXTILE	
CONSTRUCTION LIMITS		ORDINARY HIGH WATER		STREAM SUBSTRATE	
CONSTRUCTION LIMITS (TEMPORARY)		PROPOSED CREEK ALIGNMENT		TEMPORARY STREAM DIVERSION	
CONTROL POINT MONUMENT		RELIC CHANNEL FILL AND UPSTREAM REALIGNMENT		WETLANDS	
CULVERT (EXISTING)		RIGHT OF WAY			
CULVERT (PROPOSED)		RIPRAP, CLASS II			
EDGE OF PAVEMENT (EXISTING)		ROADWAY (RESURFACED)			
EDGE OF PAVEMENT (PROPOSED)		ROADWAY (TEMPORARY)			

ABBREVIATIONS

AADT	AVERAGE ANNUAL DAILY TRAFFIC
ALUM	ALUMINUM
AK	ALASKA
AKSPC	ALASKA STATE PLANE COORDINATE
APPROX	APPROXIMATELY
A.S.	ALASKA STATUTES
BOP	BEGINNING OF PROJECT
CBJ	CITY OF BUREAU JUNEAU
CFS	CUBIC FEET PER SECOND
CL	CENTER LINE
CS	CONTINGENT SUM
CY	CUBIC YARD
DHV	DESIGN HOURLY VOLUME
D/DIA	DIAMETER
DOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DR	DRIVE
E	EAST
ELEV	ELEVATION
EOP	END OF PROJECT
ESAL	EQUIVALENT SINGLE AXLE LOAD
ESCP	EROSION SEDIMENT CONTROL PLANS
HW	HEADWATER
Hw/D	HEADWATER/DEPTH
HWY	HIGHWAY
IN	INCH
L	LENGTH
LB	POUND
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MPH	MILES PER HOUR
M&O	MAINTENANCE AND OPERATIONS
N	NORTH
N/A	NOT APPLICABLE
NO	NUMBER
NOS	NATIONAL OCEAN SERVICE
OHW	ORDINARY HIGH WATER
PE	PROFESSIONAL ENGINEER
R	RADIUS
ROW	RIGHT OF WAY
RT	RIGHT
SB	SEDIMENT BARRIER
S	SOUTH
SD	STORM DRAIN
SHT	SHEET
SF	SQUARE FEET
SPP	STRUCTURAL PLATE PIPE
STA	STATION
SY	SQUARE YARD
T	TANGENT
TCP	TRAFFIC CONTROL PLANS
TYP	TYPICAL
U.S.	UNITED STATES
USC&GS	UNITED STATES COAST AND GEODETIC SURVEY
VPI	VERTICAL POINT INDEX
W	WEST



PROJECT LAYOUT

GENERAL NOTES:

- DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS.

LEGEND & LAYOUT

COMBINED
PHIPS&E REVIEW -
NOT FOR
CONSTRUCTION

DESIGNED: J. B. POI
 CHECKED: E. PEDERSEN
 DRAFTED: J. B. POI
 XREFS
 SCALE
 LAYOUT: A3
 DATE: 1/30/2024 12:40
 TIME
 DRAWING LOCATION: G:\Jnu\SFHWY00359\SV\SOURCE\DWGS\BASEMAP\C3D\SCS_SFHWY00359_072623.dwg

HORIZONTAL CONTROL

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE DOT/PF 2000 JUNEAU GRID

THE DOT/PF JUNEAU GRID-2000 SYSTEM IS A LOCAL GROUND COORDINATE SYSTEM BASED AT USC&GS FIRST ORDER CONTROL STATION EDDIE (DESTROYED). IT RELATES TO AKSPC ZONE 1 NAD83 (1992) THROUGH THE FOLLOWING PARAMETERS:

ZONE = NAD83 (1992) AKSPC ZONE 1
 GRID SCALE = 0.999928875
 CONVERGENCE = -0°45'27.26"
 TRANSLATION ABOUT USC&GS POINT EDDIE (DESTROYED) AS FOLLOWS:
 AKSPC NORTHING = 2383469.17 FT US
 AKSPC EASTING = 2512570.06 FT US
 LOCAL NORTHING = 500000.00 FT US
 LOCAL EASTING = 500000.00 FT US

Project Specific Horizontal Control

200: 2.5" ALUMINUM CAP SET 1.9' FROM EP ON OUTBOUND LANE AT TOP OF CREST OF HILL. 54.4' EAST FROM 12" ALDER WITH SILVER METAL TAG. 103' NORTH FROM WHITE CARSONITE POST ON OUTBOUND LANE.

JNU-Grid N=594262.24 FT US, E=430840.18 FT US
 AKSPC N=2478630.82 FT US, E=2444667.43 FT US

204: 2.5" ALUMINUM CAP SET 1.9' FROM EP ON OUTBOUND LANE. FROM 36 MILE POST 15' S18E. FROM 12" ALDER ON OUTBOUND LANE 69.3' S72E.

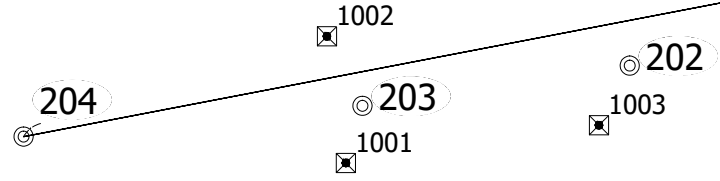
JNU-Grid N=597999.84 FT US, E=430123.354 FT US
 AKSPC N=2482377.30 FT US, E=2444000.13 FT US

VERTICAL CONTROL

THE VERTICAL DATUM FOR JNU GRID-2000 IS MEAN LOWER LOW WATER = 0.00' GASTINEAU CHANNEL - STEPHENS PASS TIDAL DATUM BASED ON NOAA NOS TIDAL BENCHMARK SERIES 9452210. THE TIDAL EPOCH IS 1960-1978, TIME PERIOD 1994-1998, PUBLISHED 11/1999. THE LATEST NOS PUBLICATION (MAY 2014) ON THE 2007 - 2011 TIDAL EPOCH, TIME PERIOD 2007-2011 INDICATES THE TIDAL BENCHMARK SERIES HAS RISEN 0.56' AT BENCHMARK 9452210 C.

BRIDGET COVE DESIGN ALIGNMENT								
SEGMENT	STATION	NORTHING	EASTING	DISTANCE	BEARING	STATION	NORTHING	EASTING
L1	10+00.00	596391.42	430364.51	634.85	S12° 16' 42"E	16+34.85	595771.0931	430499.5219

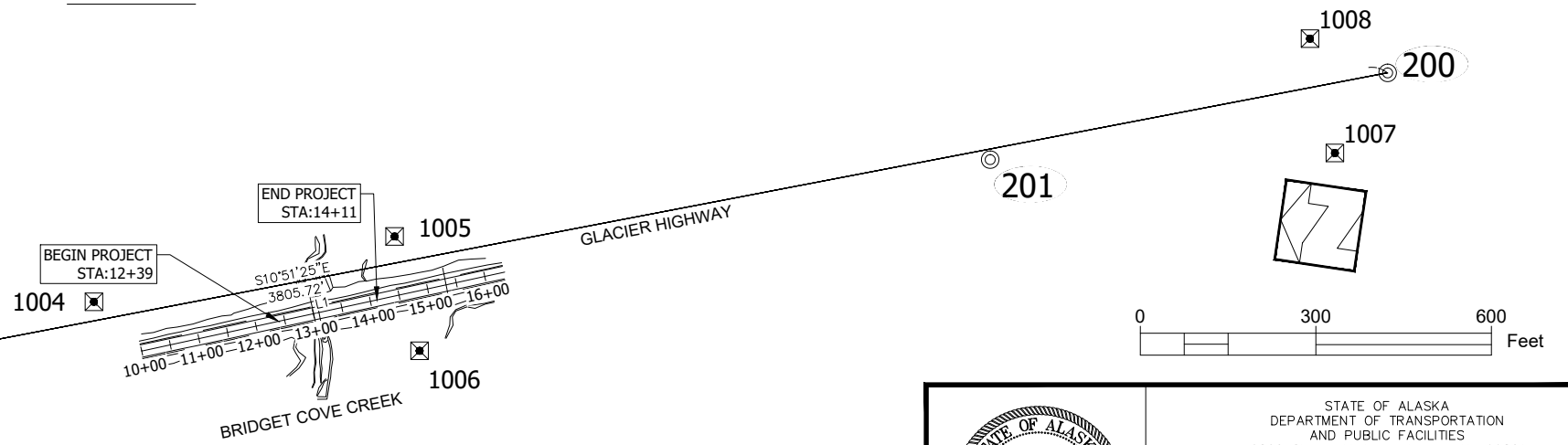
COORDINATES LISTED ABOVE HOLD OVER DISTANCE AND BEARING



EXISTING PROPERTY					
POINT #	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
1001	597496.25	430082.14	CONC_6"X6"_ROW POST	N/A	N/A
1002	597525.88	430279.99	CONC_6"X6"_ROW POST	N/A	N/A
1003	597100.85	430141.15	CONC_6"X6"_ROW POST	N/A	N/A
1004	596473.17	430448.80	CONC_6"X6"_ROW POST	N/A	N/A
1005	595959.26	430560.41	CONC_6"X6"_ROW POST	14+63.94	99.51L
1006	595916.54	430365.00	CONC_6"X6"_ROW POST	14+64.13	100.51R
1007	594352.42	430703.21	CONC_6"X6"_ROW POST	N/A	N/A
1008	594394.94	430898.66	CONC_6"X6"_ROW POST	N/A	N/A

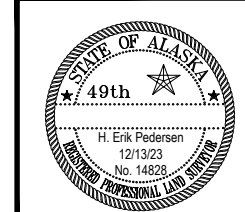
SURVEY CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	594262.24	430840.18	111.52	ALCAP2.5" DOT&PF
201	594941.47	430691.89	88.58	ALCAP2.5" DOT&PF
202	597052.78	430234.26	68.49	ALCAP2.5" DOT&PF
203	597470.37	430171.42	87.46	ALCAP2.5" DOT&PF
204	597999.84	430123.35	79.56	ALCAP2.5" DOT&PF

ALL **SURVEY CONTROL** MONUMENTS IN THIS TABLE ARE PROVIDED STRICTLY FOR SURVEY CONTROL. SHOULD ANY OF THEM BE DESTROYED DURING CONSTRUCTION THEY **SHALL NOT** BE REPLACED.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWY00359	2024	A3	13

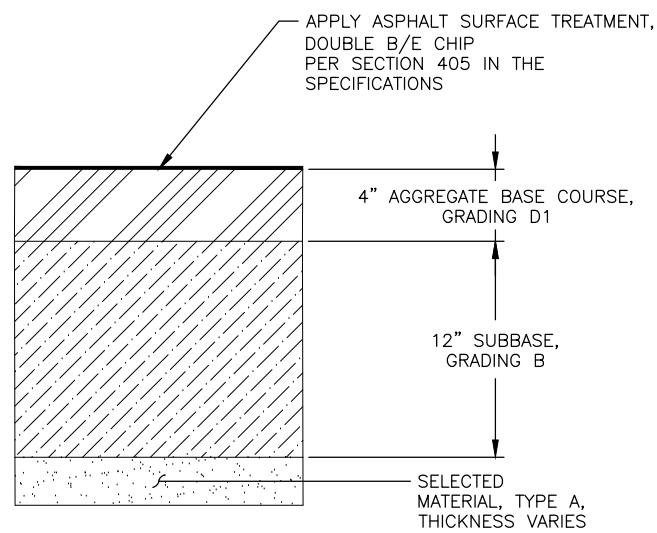
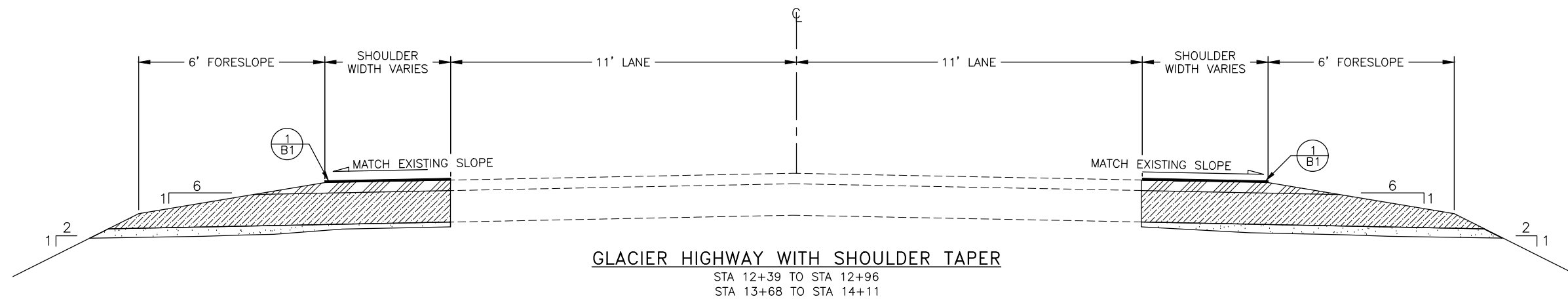
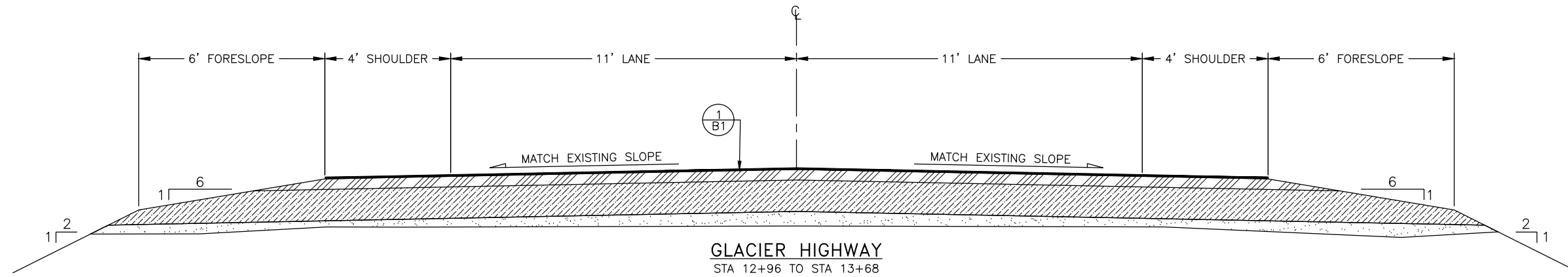
- MONUMENT NOTES:**
- IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.
 - WHETHER LISTED OR NOT, ALL PROPERTY MONUMENTS, PROPERTY MARKERS, CORNERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED, AND RE-ESTABLISHED IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH (A.S.34.65.040) AND (A.S.19.10.260) SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE USED TO RESET MONUMENTS ONLY AS A LAST RESORT.
 - WHEN POSSIBLE ALL ORIGINAL PRIMARY MONUMENTS SHALL BE SAVED AND RESET IN THEIR ORIGINAL HORIZONTAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH (A.S.34.65.040) AND (A.S.19.10.260) SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING.
 - RIGHT OF WAY LOCATION IS SHOWN FOR GRAPHICAL ORIENTATION PURPOSES ONLY. REFER TO ALASKA DOT&PF RIGHT OF WAY MAPS FOR RIGHT OF WAY INFORMATION.
 - HORIZONTAL AND VERTICAL CONTROL MUST BE FIELD VERIFIED BY THE CONTRACTOR. DISCREPANCIES WILL BE REPORTED TO DOT&PF CONSTRUCTION PROJECT ENGINEER.



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 6860 Glacier Highway Juneau Ak. 99801
 (907) 465-1763

**JNU BRIDGET COVE CREEK
 CULVERT REPLACEMENT
 SURVEY CONTROL**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	B1	20



1 ROADWAY SECTION DETAIL
B1 NOT TO SCALE

TYPICAL SECTIONS

COMBINED
PIH/PS&E REVIEW -
NOT FOR
CONSTRUCTION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWY00359	2024	C1	20

ESTIMATE OF QUANTITIES			
ITEM NO	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202.0004.0000	REMOVAL OF CULVERT PIPE	LINEAR FOOT	152
203.0003.0000	UNCLASSIFIED EXCAVATION	CUBIC YARD	1740
203.0006.000A	BORROW, TYPE A	TON	100
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	60
304.0001.000B	SUBBASE, GRADING B	TON	170
405.2001.0000	DOUBLE B/E CHIP AST	SQUARE YARD	260
602.0002.1507	STRUCTURAL PLATE PIPE-ARCH 15'-7" SPAN, 10'-2" RISE, 8 GAUGE	LINEAR FOOT	81
611.0002.0002	RIPRAP, CLASS II	TON	160
613.0002.0000	CULVERT MARKER POST	EACH	2
618.0002.0000	SEEDING	POUND	12.7
619.2013.0000	BONDED FIBER MATRIX (BFM)	POUND	681
620.0001.0000	TOPSOIL	SQUARE YARD	942
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
642.0001.0000	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642.0003.0000	THREE PERSON SURVEY PARTY	HOUR	12
643.0002.0000	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643.0032.0000	FLAGGING	CONTINGENT 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
670.0001.0000	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
690.2004.0000	WATERWAY RESTORATION	LINEAR FOOT	180

BASIS OF ESTIMATE		
ITEM NUMBER	PAY ITEM	UNIT
203.0006.000A	BORROW, TYPE A	1.95 TONS/CY
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	3920 POUNDS/CY
304.0001.000B	SUBBASE, GRADING B	1.95 TONS/CY
405.2001.0000	CRS-2P ASPHALT FOR B AGGREGATE LAYER	243 GAL/TON
	CRS-2P ASPHALT FOR E AGGREGATE LAYER	0.6 GAL/SY
	CRS-2P ASPHALT FOR SURFACE TREATMENT	0.55 GAL/SY
	GRADE B AGGREGATE FOR SURFACE TREATMENT	55 LB/SY
611.0002.0002	GRADE E AGGREGATE FOR SURFACE TREATMENT	30 LB/SY
	RIPRAP, CLASS II	1.6875 TON/CY
690.2004.0000	EXCAVATION	120 CY
	RIPRAP, CLASS II	15 CY
	ROCK CLUSTER	22 CY
	ROCK FEATURE	0.56 CY
	SEEDING	200 SY
	SELECTED MATERIAL, TYPE C	22 CY
	STREAM SUBSTRATE	275 CY
	TOPSOIL	200 SY
	VEGETATIVE MAT	124 SY
	WILLOW STAKING	120 CY

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6660 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
 C:\nu\SFHwy00359\PlanSet\SFHwy00359_C1-C1_ESTIMATE OF QUANTITIES Frt, Feb/16/24 08:53pm

ESTIMATE OF QUANTITIES

COMBINED
 PIH/PS&E REVIEW -
 NOT FOR
 CONSTRUCTION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWHY00359	2024	D1	20

202.0004.0000 REMOVAL OF CULVERT PIPE					
START STATION	OFFSET (FT)	END STATION	OFFSET (LT)	LENGTH (LT)	REMARKS
13+24	38 RT	13+26	39 LT	76	
13+34	37 RT	13+34	38 LT	76	
TOTAL				152	

203.0003.0000 UNCLASSIFIED EXCAVATION			
STATION		VOLUME [CY]	REMARKS
START	END		
12+96	13+68	1,740	
TOTAL		1,740	

203.0006.000A BORROW, TYPE A			
STATION		WEIGHT [TON]	REMARKS
START	END		
12+39	14+11	100	
TOTAL		100	

301.0001.00D1 AGGREGATE BASE COURSE, GRADING D-1			
STATION		WEIGHT [TON]	REMARKS
START	END		
12+39	12+96	2.5	FOR SHOULDER TAPER, LT AND RT
12+96	13+68	50	FOR LANE, LT AND RT
13+68	14+11	2.5	FOR SHOULDER TAPER, LT AND RT
TOTAL		60	

304.0001.000B SUBBASE, GRADING B			
STATION		VOLUME [TON]	REMARKS
START	END		
12+39	12+96	5	FOR SHOULDER TAPER, LT AND RT
12+96	13+68	160	FOR LANE, LT AND RT
13+68	14+11	5	FOR SHOULDER TAPER, LT AND RT

405.2001.0000 DOUBLE B/E CHIP AST			
STATION		AREA [SY]	REMARKS
START	END		
12+39	12+96	10	FOR SHOULDER TAPER, LT AND RT
12+96	13+68	240	FOR LANE, LT AND RT
13+68	14+11	10	FOR SHOULDER TAPER, LT AND RT

602.0002.0000 STRUCTURAL PLATE PIPE-ARCH 15'-7" SPAN, 10'-2" RISE, 8 GAUGE						
ID	START		END		LENGTH [LF]	REMARKS
	STATION N	OFFSET [LF]	STATION N	OFFSET [LF]		
P-3	13+45	37 RT	13+39	43 LT	81	
TOTAL					81	

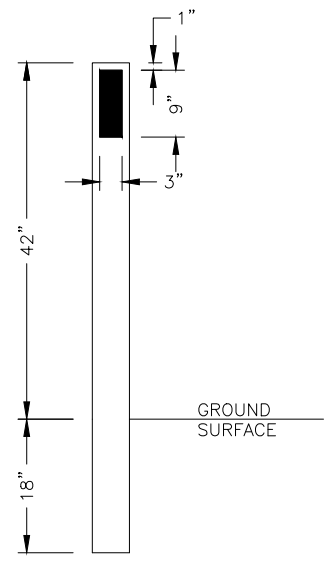
611.0002.0002 RIPRAP, CLASS II				
STATION		OFFSET	WEIGHT [TON]	REMARKS
START	END			
13+17	13+62	LT	80	
13+21	13+66	RT	80	
TOTAL			160	

613.0002.0000 CULVERT MARKER POST		
STATION	OFFSET [LF]	REMARKS
13+31	44 LT	
13+37	39 RT	

SUMMARY TABLES

COMBINED
PIHPS&E REVIEW -
NOT FOR
CONSTRUCTION

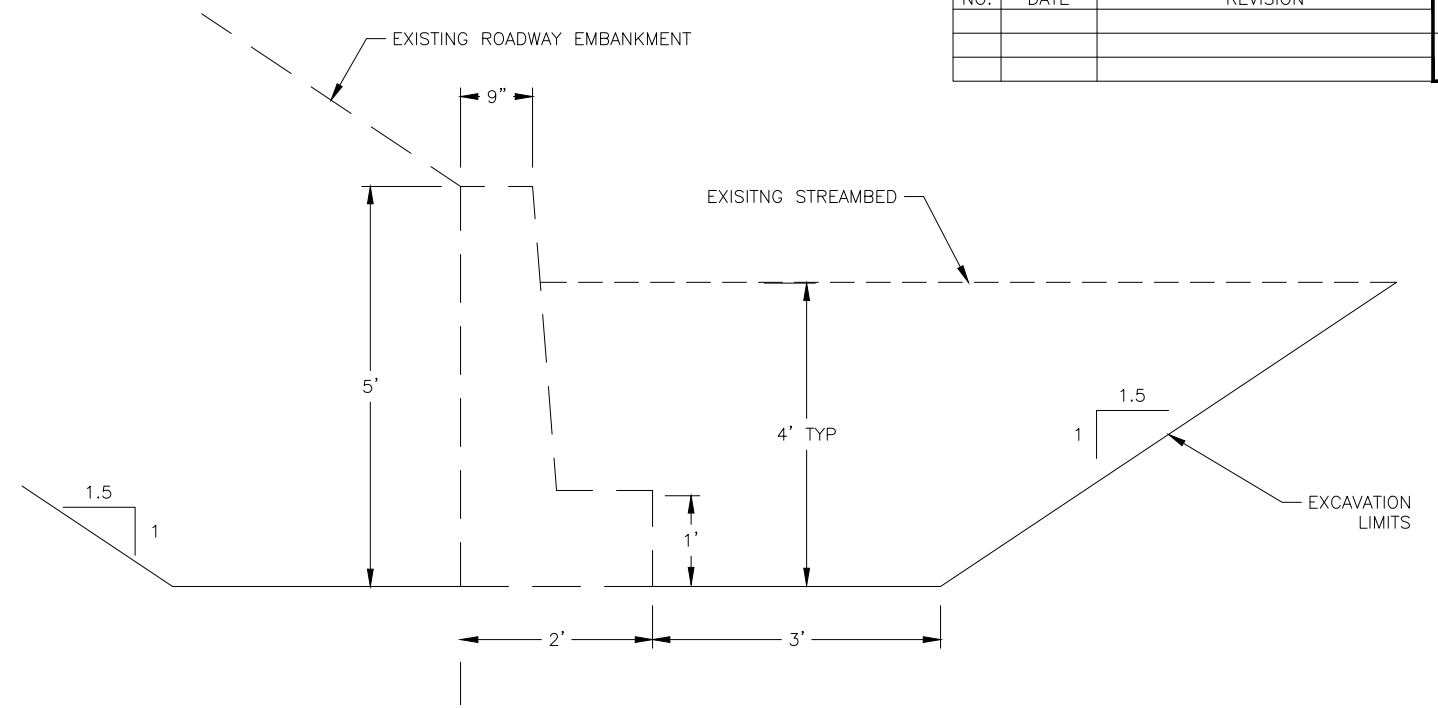
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWY00359	2024	E1	20



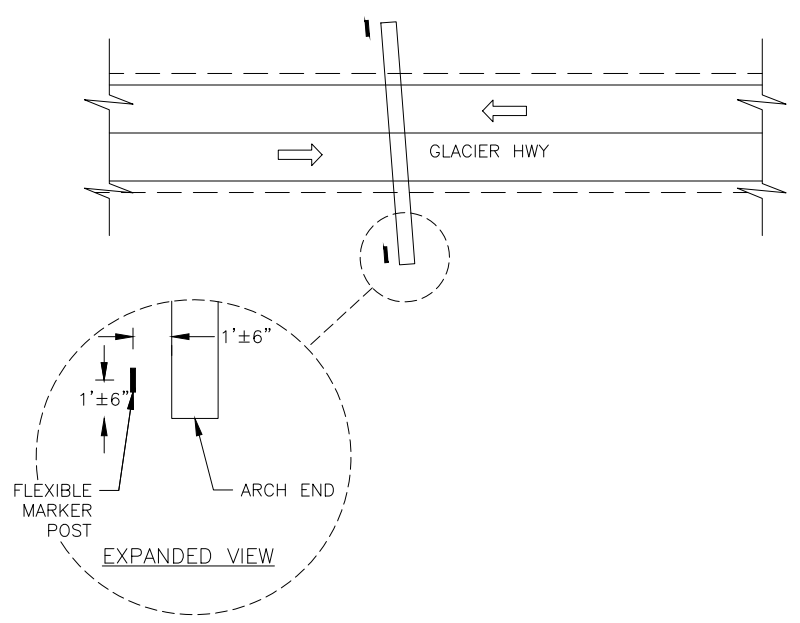
1 FLEXIBLE MARKER POST
E1 NOT TO SCALE

NOTES:

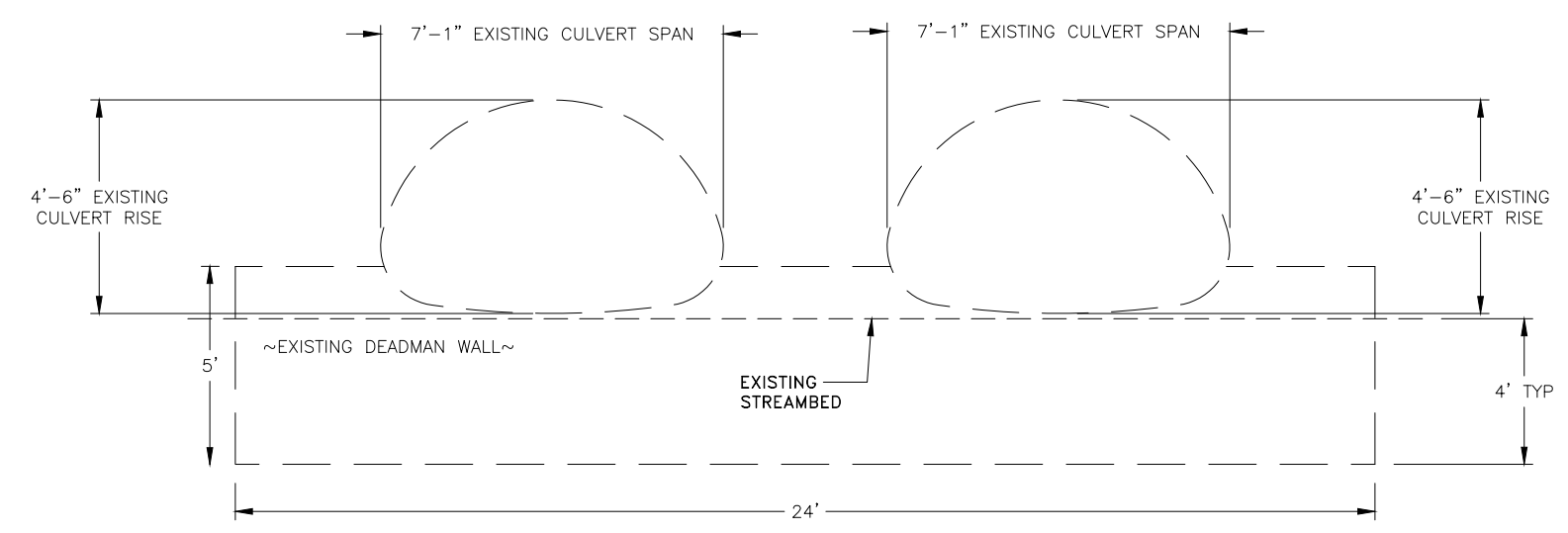
1. FLEXIBLE MARKER POSTS SHALL BE WHITE, FIBERGLASS COMPOSITE.
2. A 3" BY 9" STRIP OF BLACK 2-MIL GRAPHIC FILM SHALL BE AFFIXED TO EACH SIDE OF THE POST AS SHOWN IN THE FLEXIBLE MARKER POST DETAIL DRAWING. THE MATERIAL SHALL BE CENTERED WITHIN THE WIDTH OF THE POST. APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.



3 DEADMAN WALL EXCAVATION LIMITS
E1 NOT TO SCALE



2 FLEXIBLE MARKER POST LOCATION
E1 NOT TO SCALE



4 EXISTING P-1 AND P-2 CULVERTS AND DEADMAN WALL
E1 NOT TO SCALE

NOTES:

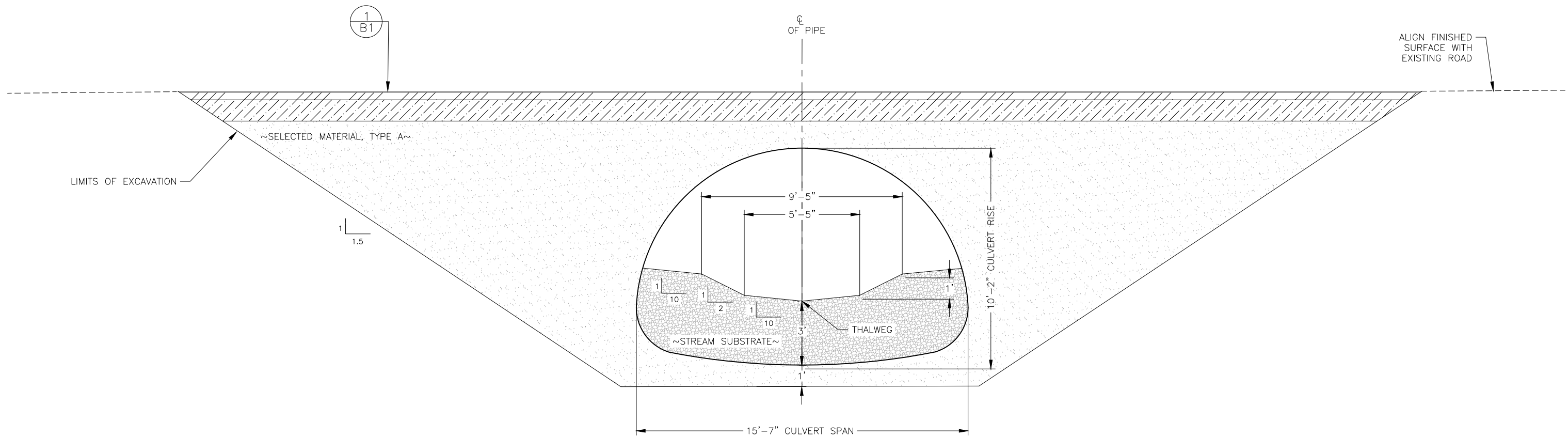
1. A DEADMAN WALL IS LOCATED AT THE INLET AND OUTLET OF THE CULVERTS.

DETAILS

COMBINED
PIH/PS&E REVIEW -
NOT FOR
CONSTRUCTION

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
G:\nu\SFH\WY00359\PlanSet\SFH\WY00359_E_SHTS-E1.Fri, Feb/16/24 05:47pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	E2	20



1
E2 P-3 CULVERT: CROSS SECTION AT CENTER OF ROAD
NOT TO SCALE

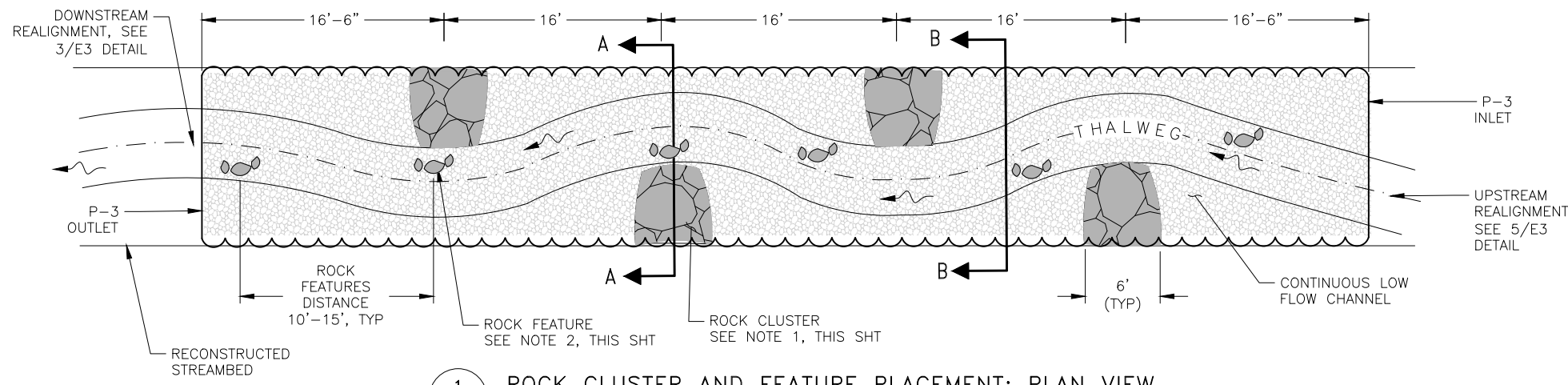
CULVERT NOTES:

- FOR CLARITY, THE EXISTING CULVERTS (P-1 AND P-2) ARE NOT SHOWN IN DETAIL 1 ON THIS SHEET.
- FOLLOW MANUFACTURER'S SPECIFICATIONS FOR CULVERT INSTALLATION.
- ADHERE TO APPENDIX B OF THE SPECIFICATIONS FOR ENVIRONMENTAL COMMITMENTS.
- SEE SUBSECTION 690-3.06 IN THE SPECIFICATIONS FOR STREAM SUBSTRATE MATERIAL AND GRADATION.
- SEE SUBSECTION 602-3.01 IN THE SPECIFICATIONS FOR BEDDING.

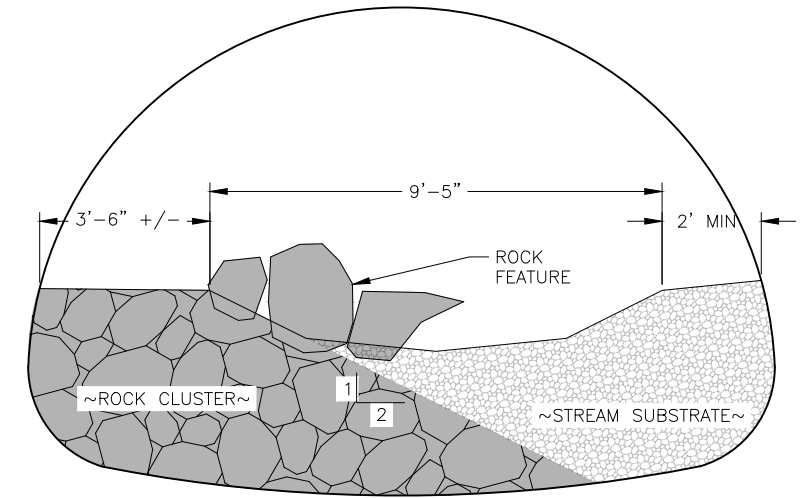
DETAILS

COMBINED
PIH/PS&E REVIEW -
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CONSTRUCTION

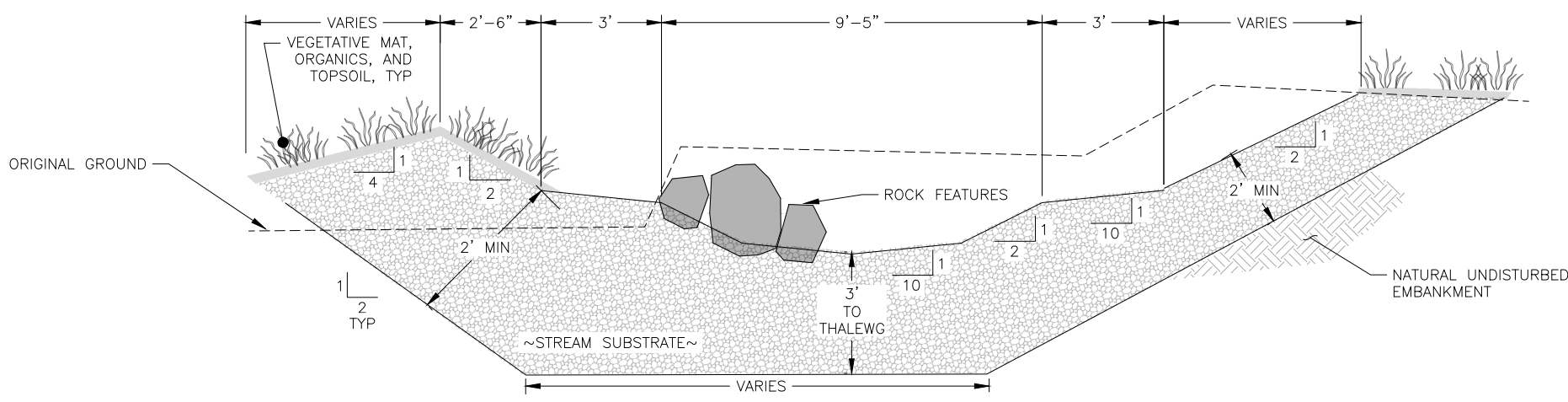
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWY00359	2024	E3	20



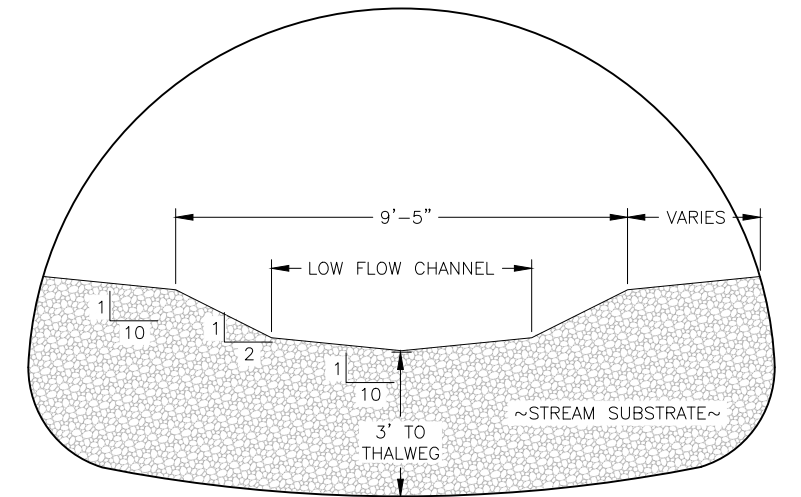
1 ROCK CLUSTER AND FEATURE PLACEMENT: PLAN VIEW
E3 NOT TO SCALE



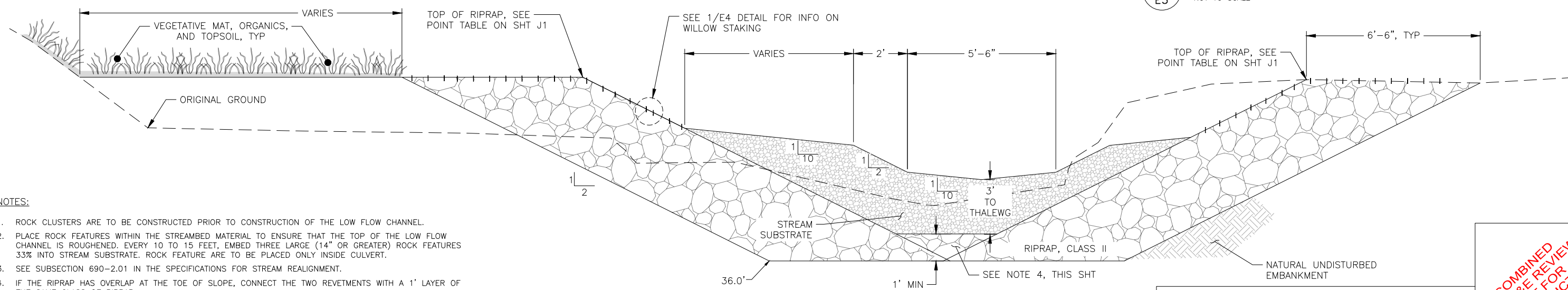
2 A-A. CULVERT WITH ROCK CLUSTER/FEATURE: CROSS SECTION VIEW
E3 NOT TO SCALE



3 STREAM REALIGNMENT ON DOWNSTREAM SIDE: SECTION VIEW
E3 NOT TO SCALE



4 B-B. TYPICAL CULVERT: CROSS SECTION VIEW
E3 NOT TO SCALE



5 STREAM REALIGNMENT ON UPSTREAM SIDE: SECTION VIEW
E3 NOT TO SCALE

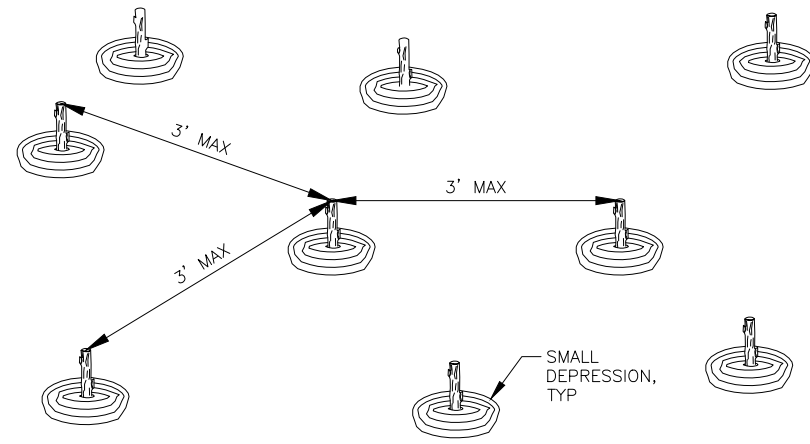
- NOTES:**
- ROCK CLUSTERS ARE TO BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE LOW FLOW CHANNEL.
 - PLACE ROCK FEATURES WITHIN THE STREAMBED MATERIAL TO ENSURE THAT THE TOP OF THE LOW FLOW CHANNEL IS ROUGHENED. EVERY 10 TO 15 FEET, EMBED THREE LARGE (14" OR GREATER) ROCK FEATURES 33% INTO STREAM SUBSTRATE. ROCK FEATURES ARE TO BE PLACED ONLY INSIDE CULVERT.
 - SEE SUBSECTION 690-2.01 IN THE SPECIFICATIONS FOR STREAM REALIGNMENT.
 - IF THE RIPRAP HAS OVERLAP AT THE TOE OF SLOPE, CONNECT THE TWO REVETMENTS WITH A 1' LAYER OF THE SAME CLASS OF RIPRAP.
 - VIEW THE POINT TABLE ON SHT J1 FOR FURTHER INFORMATION ON THE STREAM REALIGNMENT (3/E3 DETAIL AND 5/E3 DETAIL) AND RELIC CHANNEL FILL (3/E4 DETAIL).

DETAILS

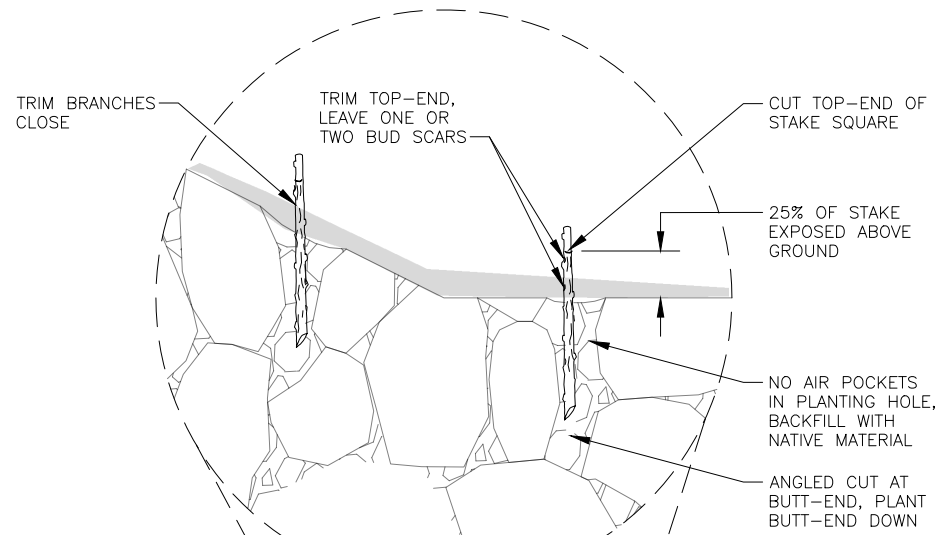
**COMBINED
PIHPS&E REVIEW -
NOT FOR
CONSTRUCTION**

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOST REGION, 6860 GLACIER HWY., JUNEAU, AK 99801 (907)465-1763
G:\jnu\SFH\00359\Plans\SFHWY00359_E_SHTS-E3_Fri_Feb/16/24_05:47pm

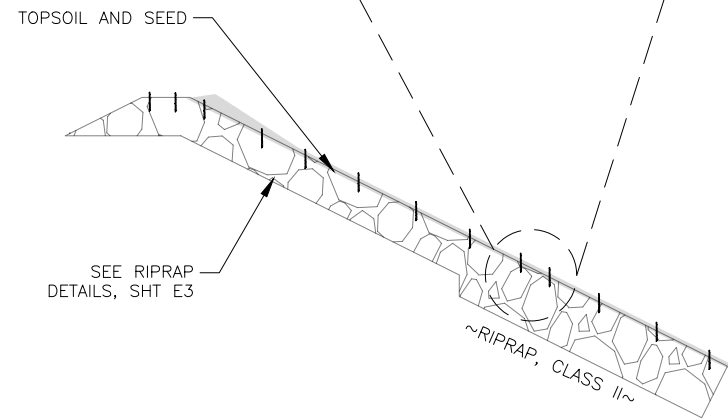
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			ALASKA	0003267/SFHWHY00359	2024	E4	20



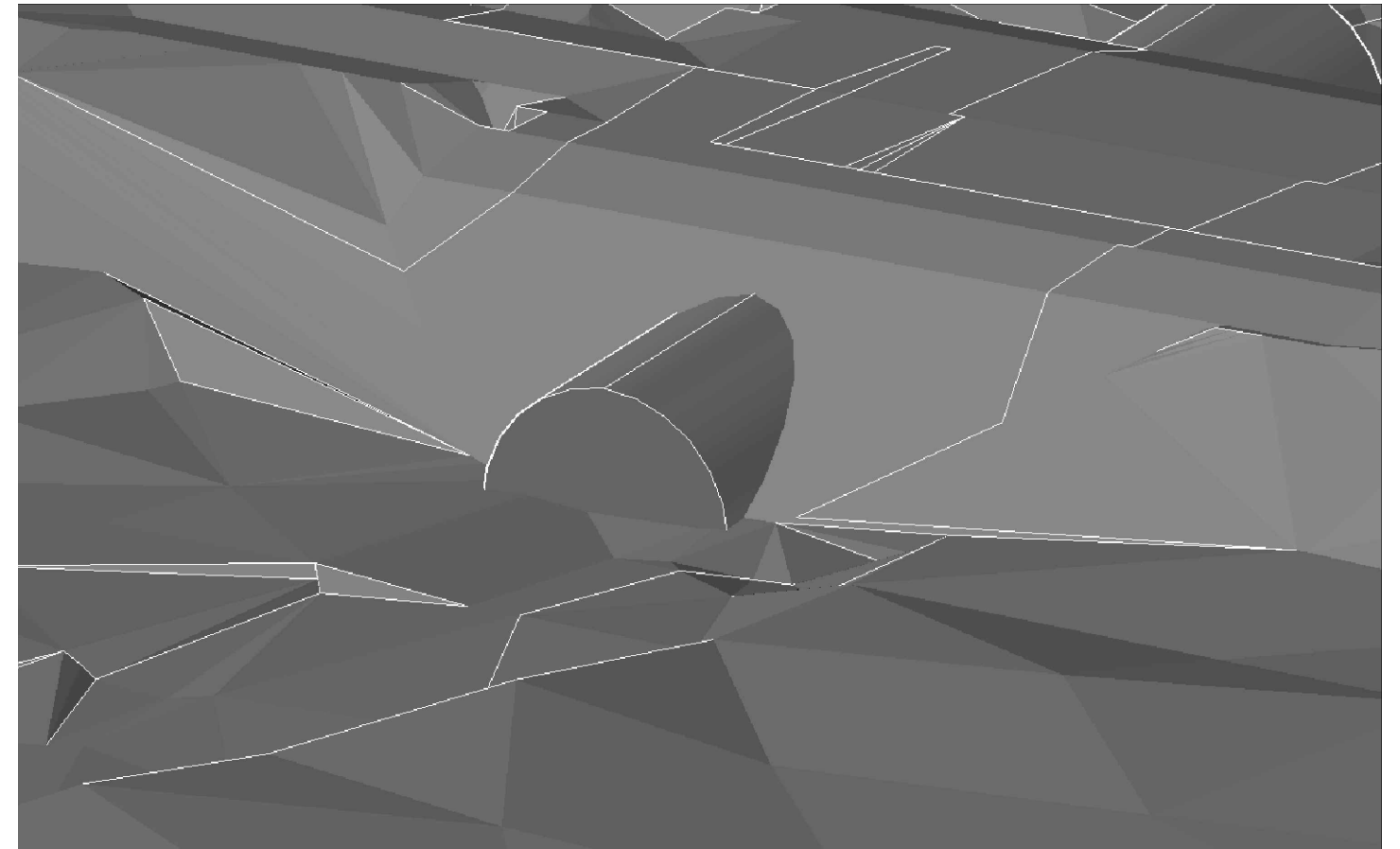
STAKING PATTERN



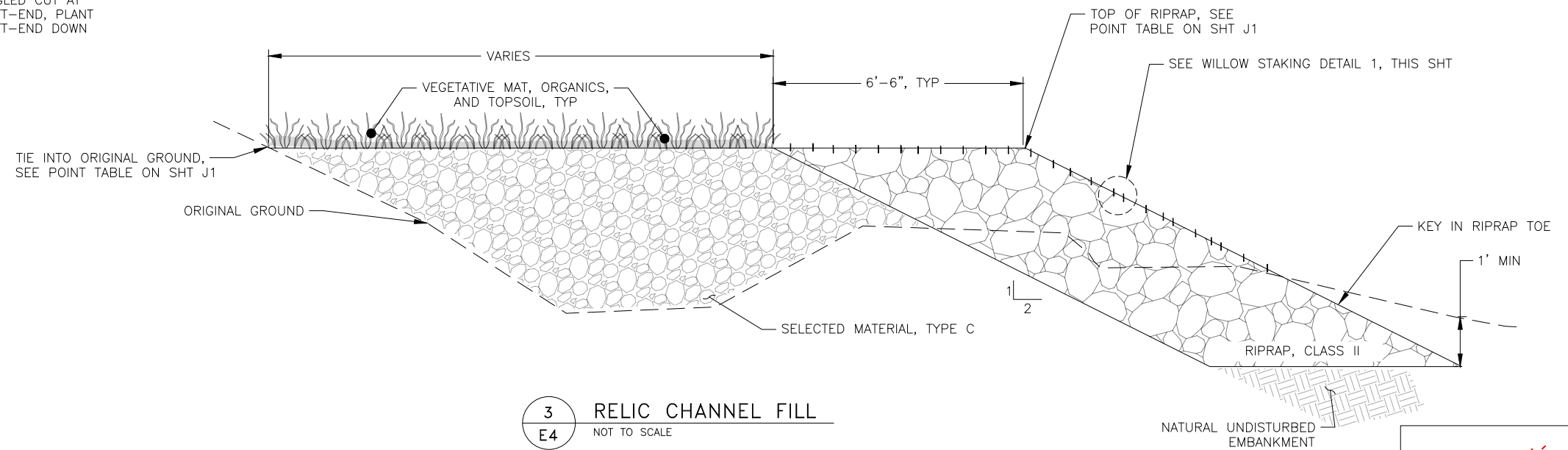
ENLARGED VIEW



1
E4 **WILLOW STAKING**
NOT TO SCALE



2
E4 **P-3 CULVERT: ISOMETRIC VIEW**
NOT TO SCALE



3
E4 **RELIC CHANNEL FILL**
NOT TO SCALE

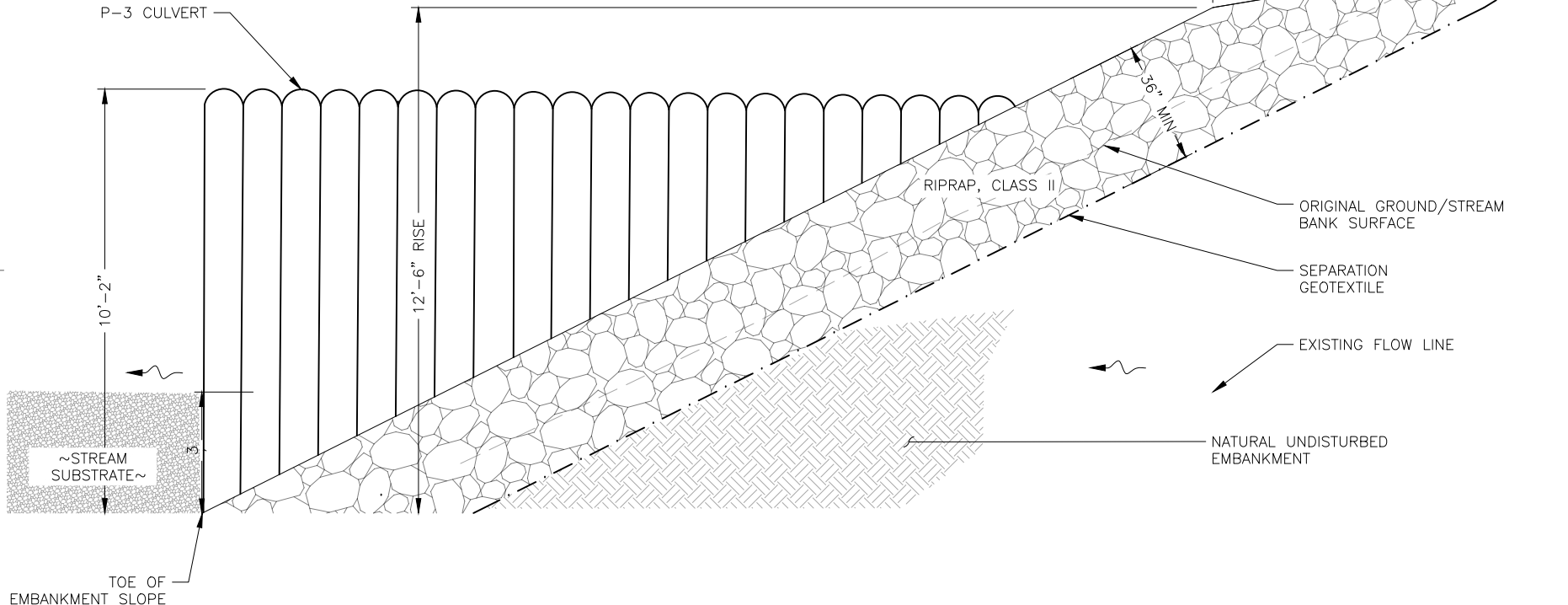
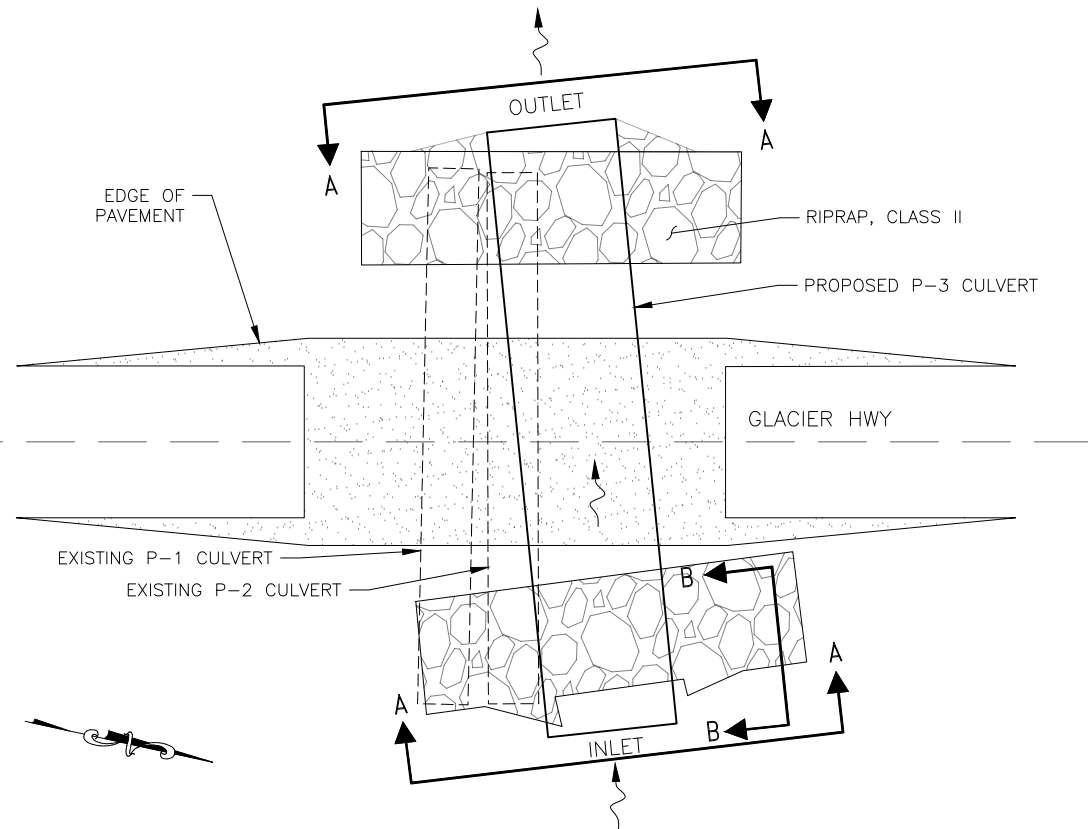
DETAILS

**COMBINED
PIHPS&E REVIEW -
NOT FOR
CONSTRUCTION**

DETAIL NOTES

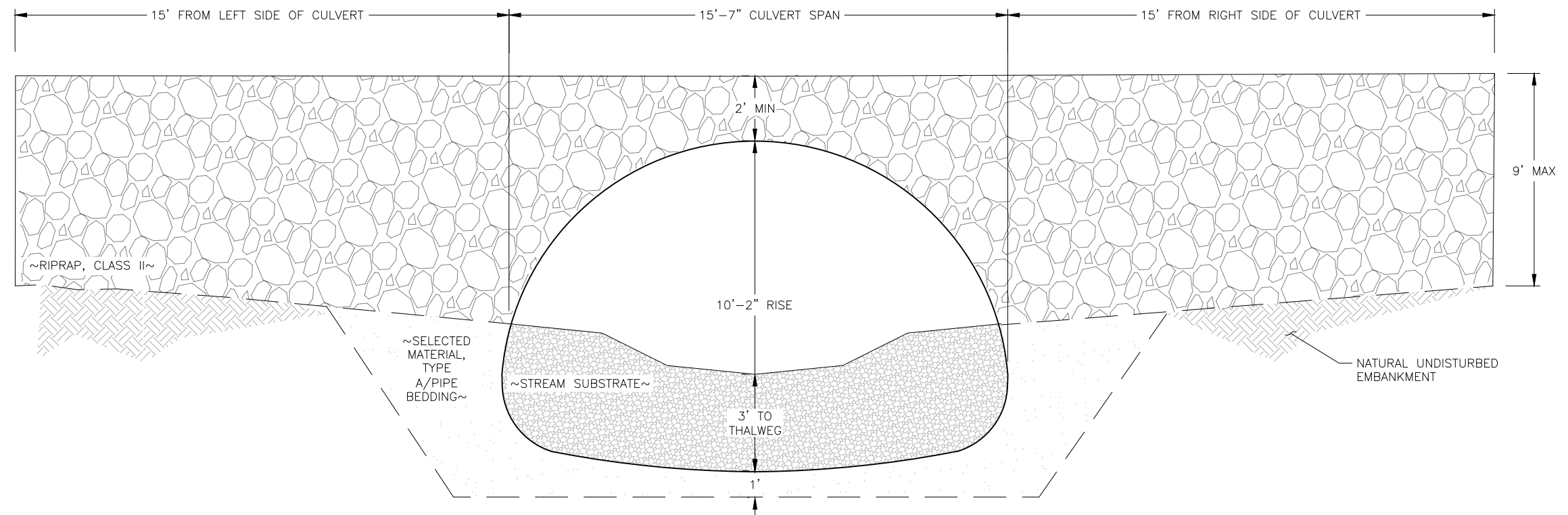
1. FOR PAVEMENT DETAILS, SEE SHEET B1.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWHY00359	2024	E5	20



1 RIPRAP PLACEMENT FOR P-3 CULVERT: PLAN VIEW
E5 NOT TO SCALE

2 B-B RIPRAP FOR P-3 CULVERT: PROFILE VIEW, TYP
E5 NOT TO SCALE



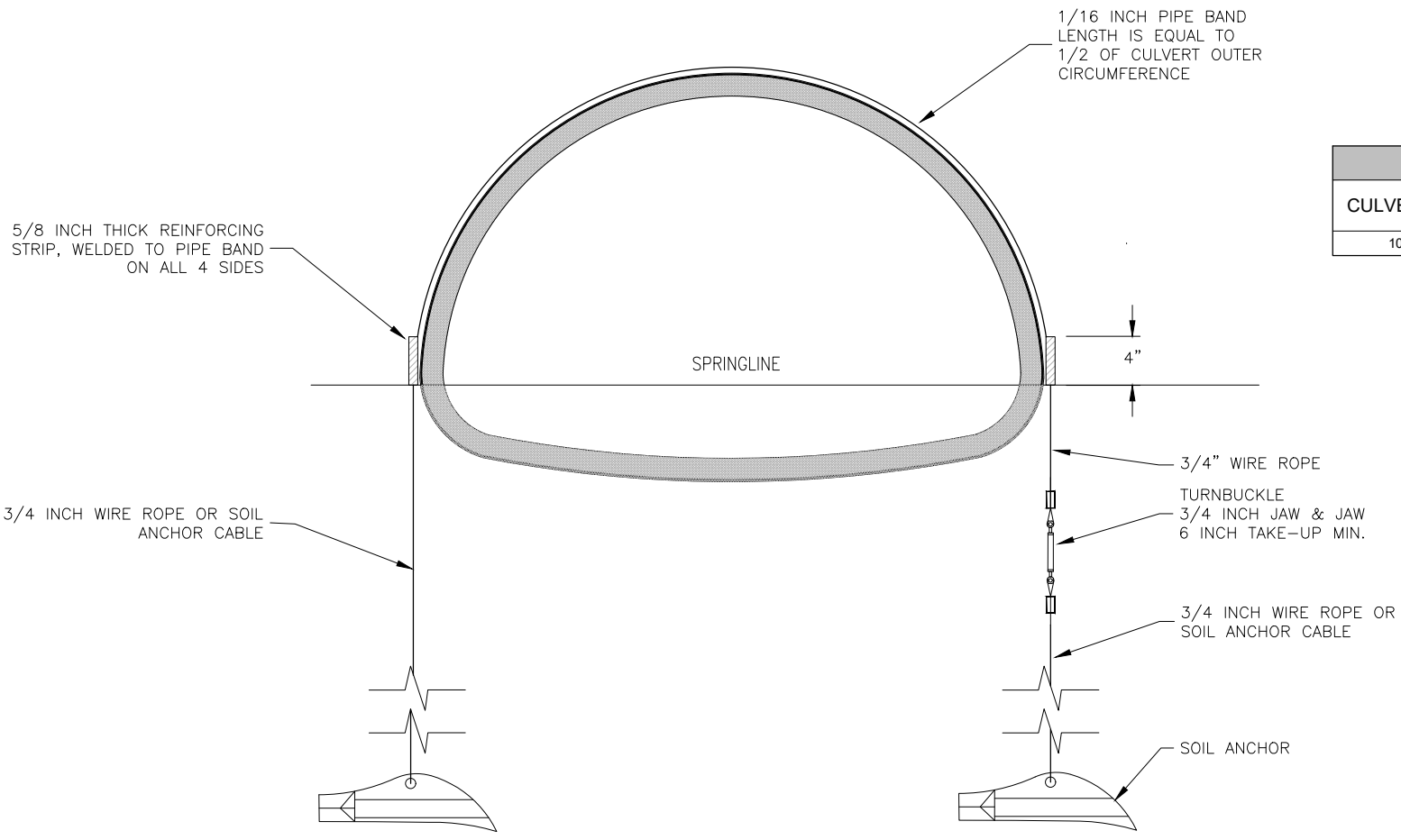
3 A-A. RIPRAP PLACEMENT FOR P-3 CULVERT: END ELEVATION VIEW, TYP
E5 NOT TO SCALE

DETAILS

COMBINED
PI/IPS&E REVIEW -
NOT FOR
CONSTRUCTION

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWHY00359	2024	E6	20

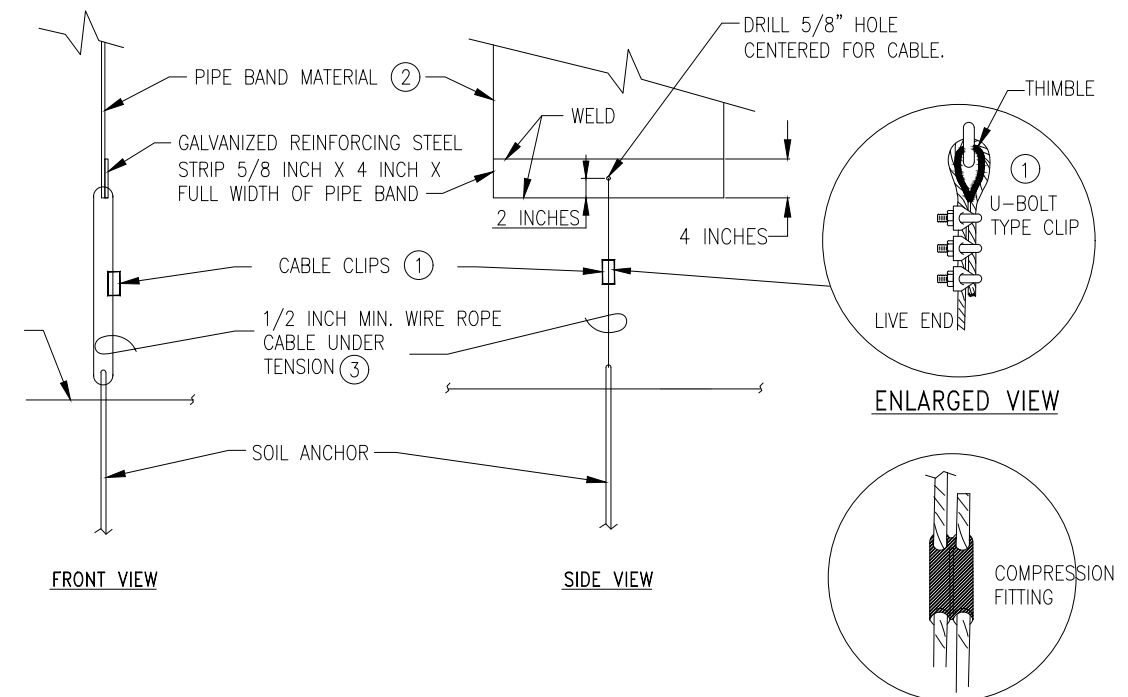


1
E6 END RESTRAINT
NOT TO SCALE

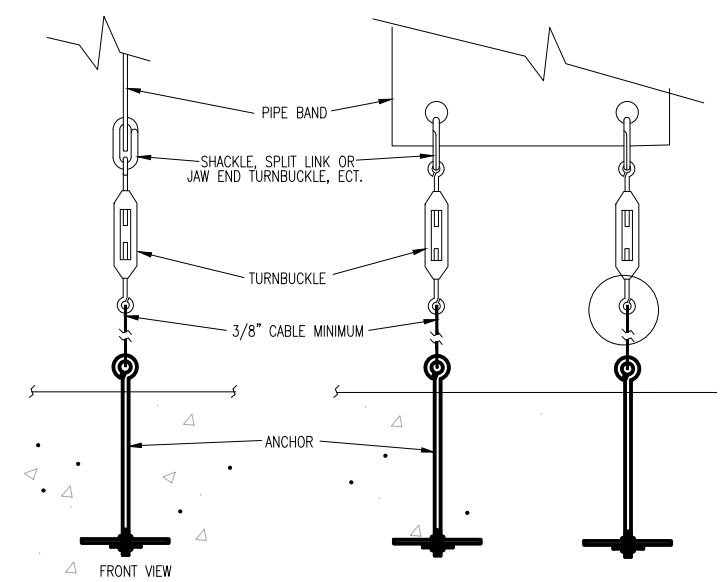
MINIMUM HARDWARE SIZE				
CULVERT DIA/SPAN	WIRE ROPE DIA (IN)	TURNBUCKLE DIA (IN)	MINMUM WIRE ROPE TURNBACK/SPLICE (IN)	U-BOLT NUT TORQUE (FT-LB)
10.01 TO 16.00	7/16	1 1/4	7	65

NOTES:

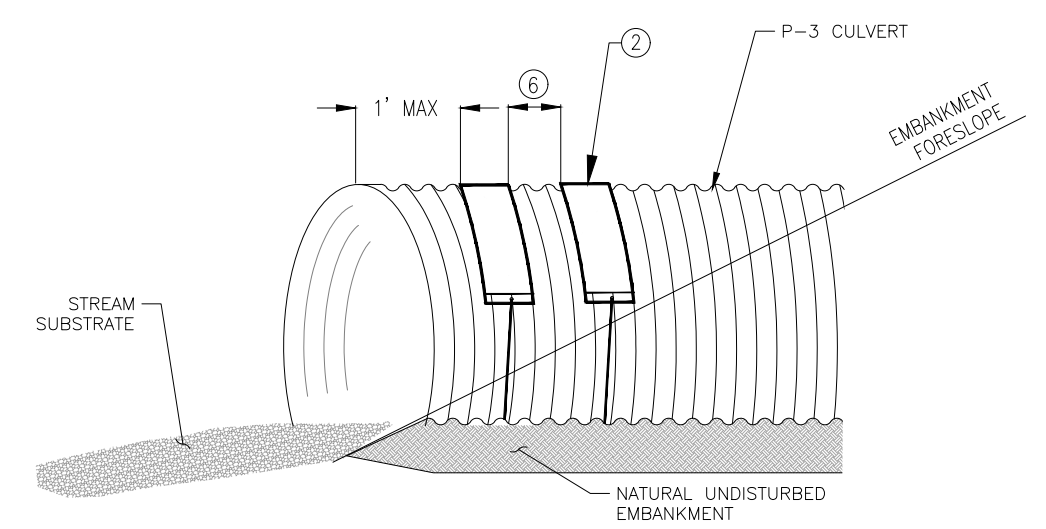
- IF DROP FORGED U-BOLT TYPE CLIPS ARE USED, THEY SHOULD BE INSTALLED USING THE FOLLOWING:
 - AMOUNT WIRE ROPE TO TURN BACK OR SPLICE: SEE TABLE.
 - TORQUE REQUIRED TO REACH HOLDING POWER: SEE TABLE.
 - SPACING: DIAMETER OF THE ROPE (INCHES) TIMES 6. THE BASE OF THE CLAMPS AND NUTS MUST BE ON THE LIVE END OF THE WIRE. INSTALL THIMBLE.
- THE LENGTH OF THE PIPE BANDS SHALL BE A MINIMUM OF HALF THE CIRCUMFERENCE OF THE ROUND CULVERT OR SHALL EXTEND TO WITHIN 6" OF THE SPRINGLINE ON PIPE ARCH CULVERT. THE PIPE BANDS SHALL BE A MINIMUM THICKNESS OF 1/16" GALVANIZED ASTM A1011 SS GRADE 36 OR MINIMUM THICKNESS 0.109" GALVANIZED AASHTO M218. THE REINFORCING STRIP SHALL BE GALVANIZED ASTM A36.
- WIRE ROPE SHALL BE 6X19 IWRC, EIPS & GAVANIZED AND MEET AASHTO M30 TYPE II REQUIREMENTS OR APPROVED EQUAL.
- ALL HARDWARE SHALL BE GALVANIZED TO MEET AASHTO M232.
- ALL WORK AND MATERIALS REQUIRED FOR THE CONSTRUCTION AND INSTALLATION OF THE SOIL ANCHOR ASSEMBLIES SHALL BE PAID UNDER 602 PAY ITEMS .
- IF MORE THAN ONE ASSEMBLY IS SPECIFIED, MINIMUM DISTANCE BETWEEN BANDS SHALL BE TWICE THE MANUFACTURER'S RECOMMENDED INSTALLATION DEPTH OF SOIL ANCHOR.
- INSTALL 8 ANCHOR ASSEMBLIES (8 BANDS + 16 SOIL ANCHORS) AT THE INLET AND OUTLET OF THE CULVERT.



2
E6 PIPE BAND
NOT TO SCALE



3
E6 BAND AND SOIL ANCHOR PLACEMENT
NOT TO SCALE

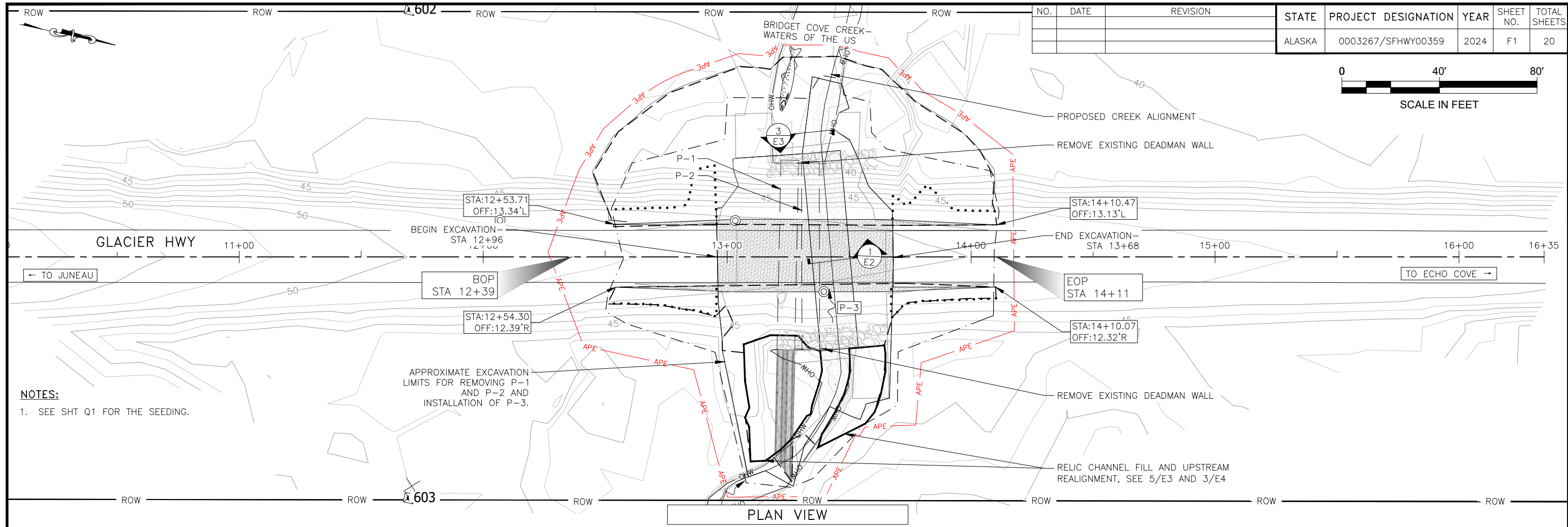
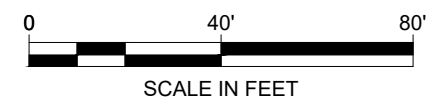


3
E6 BAND AND SOIL ANCHOR PLACEMENT
NOT TO SCALE

DETAILS

COMBINED
PIH/PS&E REVIEW -
NOT FOR
CONSTRUCTION

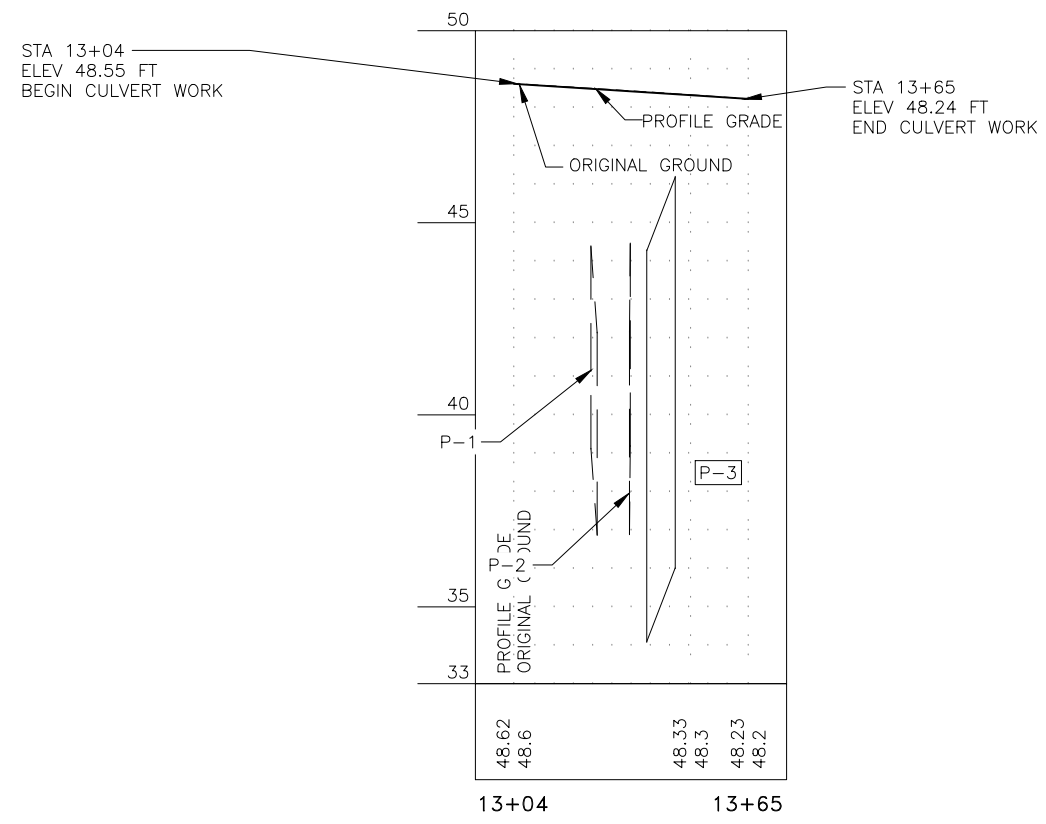
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWHY00359	2024	F1	20



NOTES:
1. SEE SHT Q1 FOR THE SEEDING.

APPROXIMATE EXCAVATION LIMITS FOR REMOVING P-1 AND P-2 AND INSTALLATION OF P-3.

PLAN VIEW



PROFILE VIEW

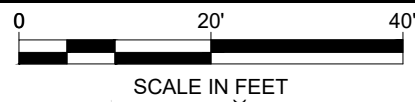
LEGEND			
CLEARING		FILL LIMITS	
CLEARING AND GRUBBING		FILL LIMITS (TEMPORARY)	
CONTOURS CONTROL POINT MONUMENT		FISH PASSAGE	
CONSTRUCTION CENTERLINE		FLOW DIRECTION (SURFACE)	
CONSTRUCTION CENTERLINE (SHOEFLY DIVERSION)		GROUND - UNDISTURBED	
CONSTRUCTION LIMITS		ORDINARY HIGH WATER	
CONSTRUCTION LIMITS (TEMPORARY)		PROPOSED CREEK ALIGNMENT	
CONTROL POINT MONUMENT		RELIC CHANNEL FILL AND UPSTREAM REALIGNMENT	
CULVERT (EXISTING)		RIGHT OF WAY	
CULVERT (PROPOSED)		RIPRAP, CLASS II	
EDGE OF PAVEMENT (EXISTING)		ROADWAY (RESURFACED)	
EDGE OF PAVEMENT (PROPOSED)		ROADWAY (TEMPORARY)	
			ROW MARKER - CONCRETE POST
			SEEDING
			SELECTED MATERIAL, TYPE A
			SELECTED MATERIAL, TYPE C
			SEPARATION GEOTEXTILE
			STREAM SUBSTRATE
			TEMPORARY STREAM DIVERSION
			WETLANDS
			EXCAVATION LIMITS
			NEW APE
			APE

PLAN & PROFILE

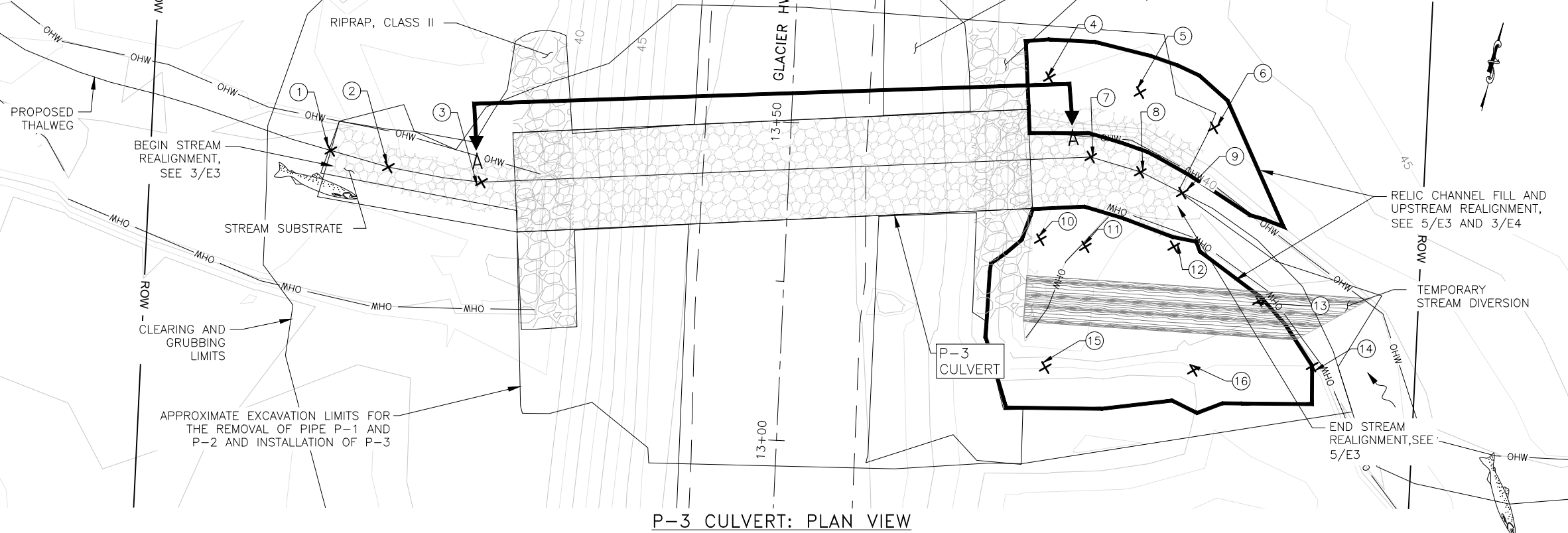
COMBINED
PIHIPS&E REVIEW -
NOT FOR
CONSTRUCTION

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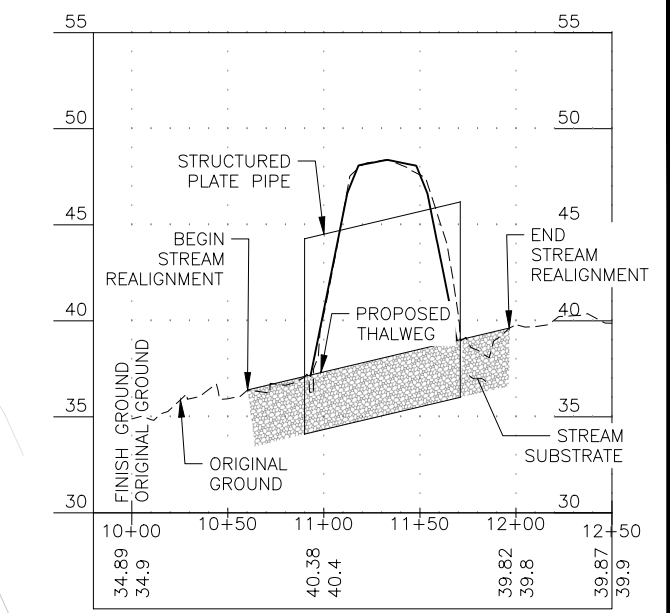
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
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SCALE IN FEET



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFH\0359	2024	J1	20



POINT TABLE						
POINT NO.	NORTHING (FT)	EASTING (FT)	STATION	OFFSET FROM HWY (FT)	ELEVATION (FT)	PURPOSE
1	430356.3755	596090.2011	13+42	72 L	36.40	THALWEG
2	430365.7638	596089.9979	13+40	63 L	36.62	THALWEG
3	430380.5088	596091.492	13+38	48 L	36.97	THALWEG
4	430462.4607	596130.338	13+58	40 R	42.00	TOP OF RIPRAP
5	430476.8163	596131.7266	13+57	55 R	42.00	TOP OF RIPRAP
6	430489.4545	596129.3852	13+52	66 R	43.00	TOP OF RIPRAP
7	430471.9416	596119.9578	13+47	47 R	39.24	THALWEG
8	430480.0676	596119.6502	13+45	56 R	39.44	THALWEG
9	430487.2952	596118.1929	13+42	62 R	39.61	THALWEG
10	430467.6311	596105.3538	13+33	40 R	43.00	TOP OF RIPRAP
11	430474.7596	596106.0947	13+32	47 R	43.00	TOP OF RIPRAP
12	430488.1698	596109.7149	13+33	62 R	43.00	TOP OF RIPRAP
13	430503.2401	596104.8668	13+26	74 R	43.00	TOP OF RIPRAP
14	430513.9991	596097.2002	13+16	42 R	43.00	TOP OF RIPRAP
15	430473.5704	596086.1607	13+13	65 R	43.00	EDGE OF CHANNEL FILL
16	430496.1554	430496.1554	13+14	83 R	43.00	EDGE OF CHANNEL FILL

HYDROLOGIC AND HYDRAULIC SUMMARY TABLE			
GLACIER HIGHWAY MILEPOST 35.77 - BRIDGET COVE CREEK 187" x 122" x 81' - ALUM. SPP ARCH			
BASIN AREA [SQ.MI]	Q FISH [CFS]	Q50 [CFS]	Q100 [CFS]
0.95	32.5	253	297
HEADWATER ELEVATION (FT) AT Q50 = 42.59 AND Q100 = 43.04			
ROADWAY OVER TOPPING FLOW [CFS] = 853			
CULVERT PURPOSE: CULVERT DRAINAGE/FISH PASSAGE			

CULVERT INSTALLATION DETAILS - BRIDGET COVE CREEK										
DESCRIPTION	MATERIAL	INLET LOCATION		OUTLET LOCATION		SPAN X RISE	LENGTH (LF)	SKEW (DEGREE)	COVER DEPTH	
		STATION	OFFSET (FT)	STATION	OFFSET (FT)				MIN (FT)	MAX (FT)
P-3	ALUMINUM	13+44	55	13+40	42	15'- 7" x 10'-2"	81	3	3	9

FILL ABOVE ORDINARY HIGH WATER				
STATION [STA]		OFFSET	AREA (SY)	VOLUME (CY)
START	END			
13+16	14+07	LT AND RT	930	910

PERMANENT FILL BELOW ORDINARY HIGH WATER				
STATION [STA]		OFFSET	AREA (SY)	VOLUME (CY)
START	END			
13+34	13+50	LT AND RT	310	300

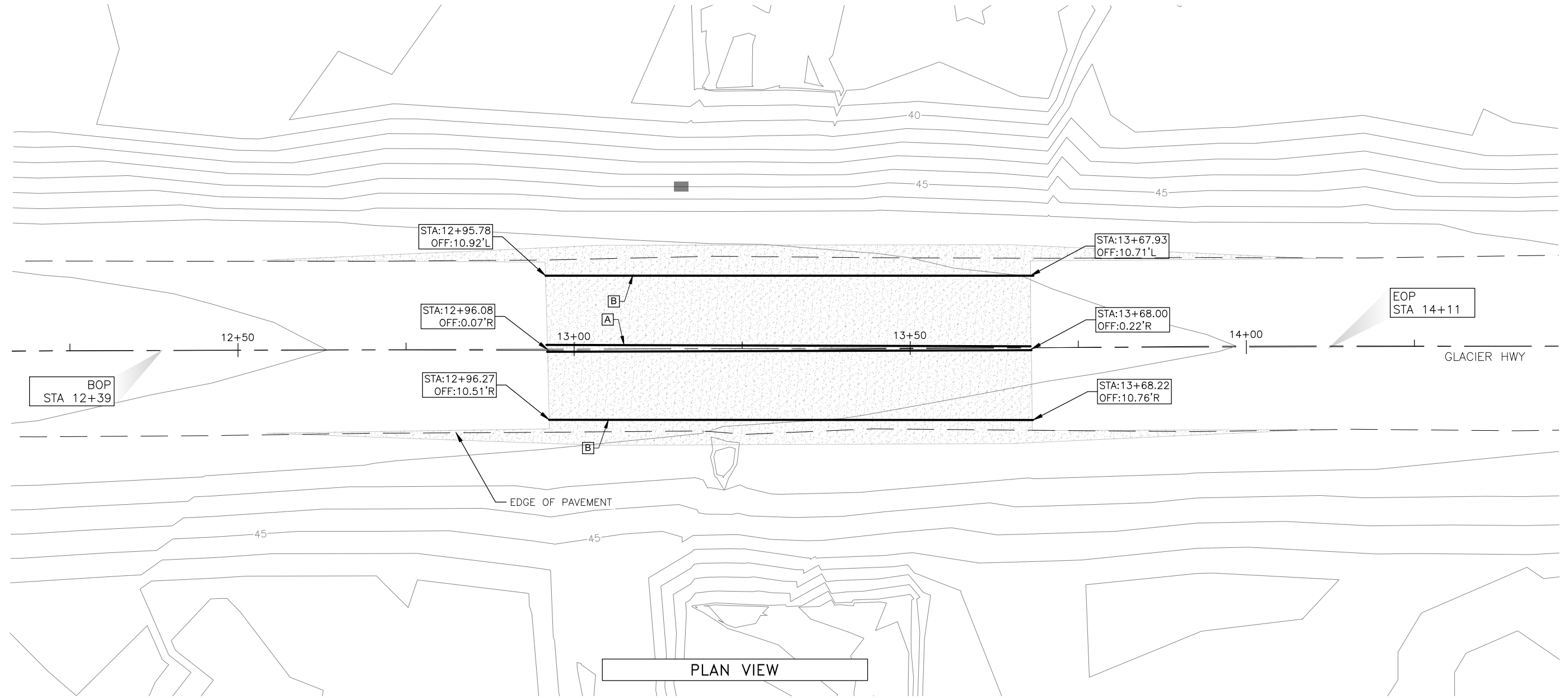
DREDGING BELOW ORDINARY HIGH WATER				
STATION [STA]		OFFSET	AREA (SY)	VOLUME (CY)
START	END			
13+16	13+58	LT AND RT	160	480

WETLAND IMPACTS		
TYPE	AREA (SY)	VOLUME (CY)
TEMPORARY	240	210
PERMANENT	3	5

PIPE PLAN & PROFILE

COMBINED
PIHPS&E REVIEW -
NOT FOR
CONSTRUCTION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	H1	20

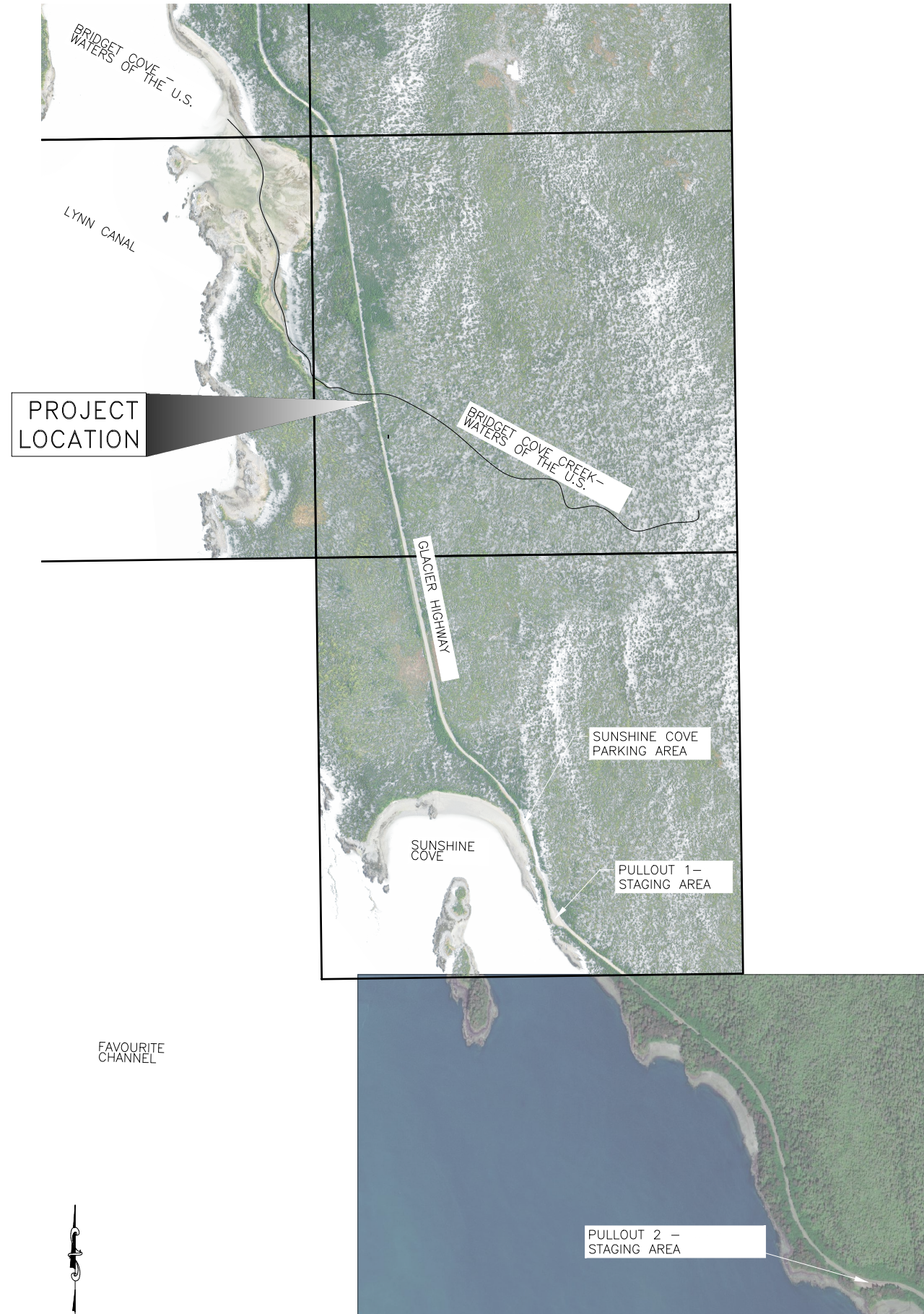


STRIPING LEGEND				
SYMBOL	DESCRIPTION	STRIPE WIDTH (IN)	PATTERN	LENGTH (LF)
A	SOLID WHITE	4"		144
B	SOLID DOUBLE YELLOW	4"		72

STRIPING

COMBINED
PIHPS&E REVIEW -
NOT FOR
CONSTRUCTION

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	Q1	20



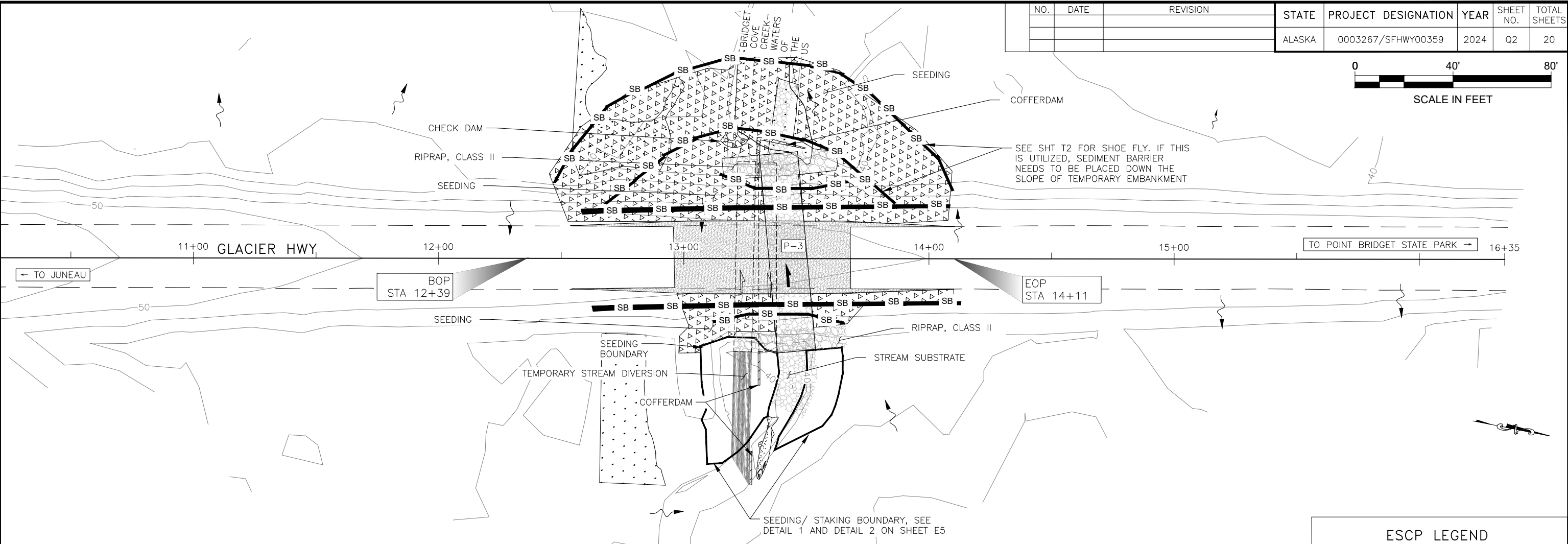
1. VICINITY MAP

NOT TO SCALE

EROSION SEDIMENT CONTROL PLANS

ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWY00359	2024	Q2	20



ESCP LEGEND	
	COFFERDAM
	CULVERT FLOW DIRECTION-EXISTING
	CULVERT FLOW DIRECTION-PROPOSED
	FISH HABITAT
	SEDIMENT BARRIER
	SURFACE FLOW DIRECTION
	TEMPORARY CHECK DAM
	WETLANDS
	SEEDING



EROSION SEDIMENT CONTROL PLANS

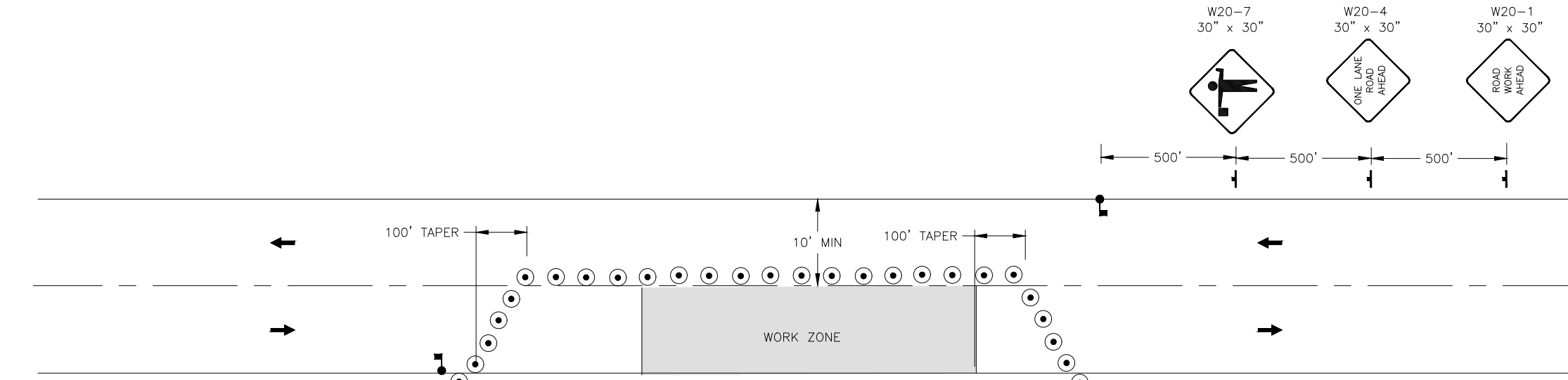
ESCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1120.7.3 DATED NOVEMBER 15, 2013

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 8860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
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FAVOURITE CHANNEL

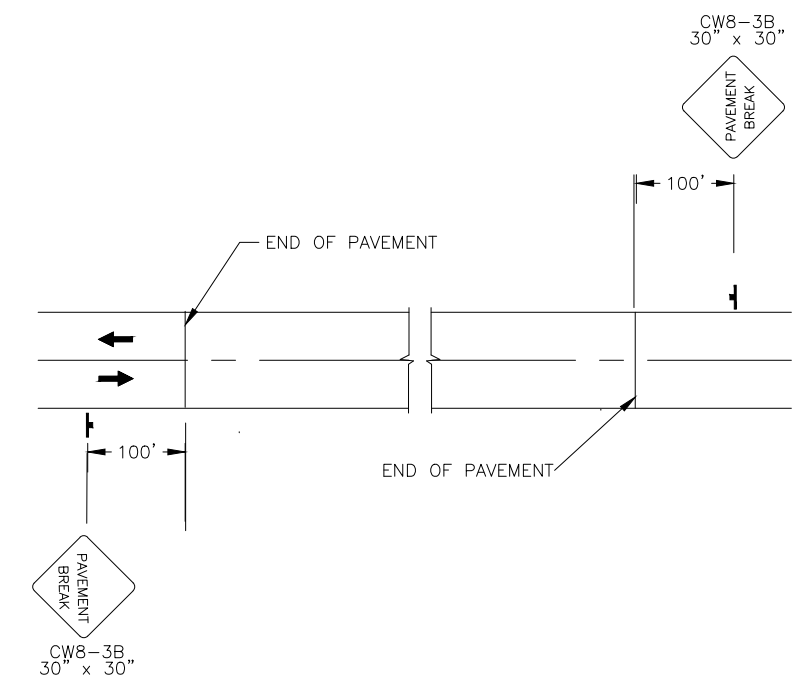
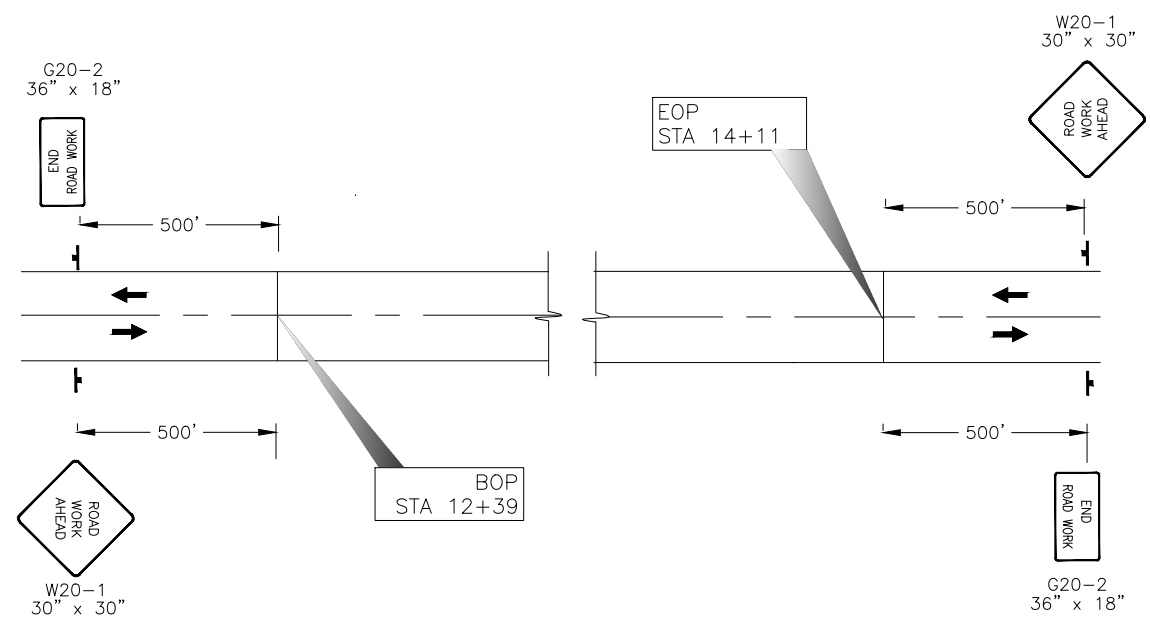
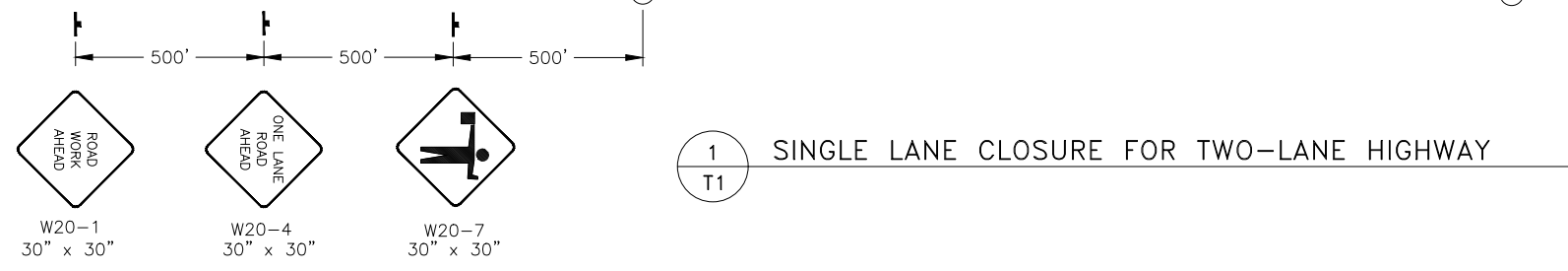
FAVOURITE CHANNEL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWY00359	2024	T1	20



TRAFFIC CONTROL LEGEND

- FLAGGER
- CONSTRUCTION SIGN
- DRUMS
- CONE
- TRAFFIC DIRECTION
- TYPE III BARICADE



2 PERMANENT CONSTRUCTION SIGNS
T1

3 SIGNING FOR UNPAVED AREA
T1

TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL PLANS MUST BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL.
- TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'.
- MAINTAIN A MINIMUM OF ONE LANE TO BE OPEN FOR TRAFFIC AT ALL TIMES.
- NO MAJOR SIDE STREETS ARE PRESENT IN PROJECT VICINITY.
- THE TRAFFIC CONTROL PLANS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR HAS THE OBLIGATION TO MEET STATE REQUIREMENTS FOR TRAFFIC CONTROL PLANNING.

TCP SETUP TABLE

SPEED (MPH)	MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FT			MAX DEVICE SPACING IN FT		BUFFER SPACE (FT)
	10FT	11FT	12FT	ALONG TAPER	ALONG TANGENT	
50	11	12	13	50	100	425

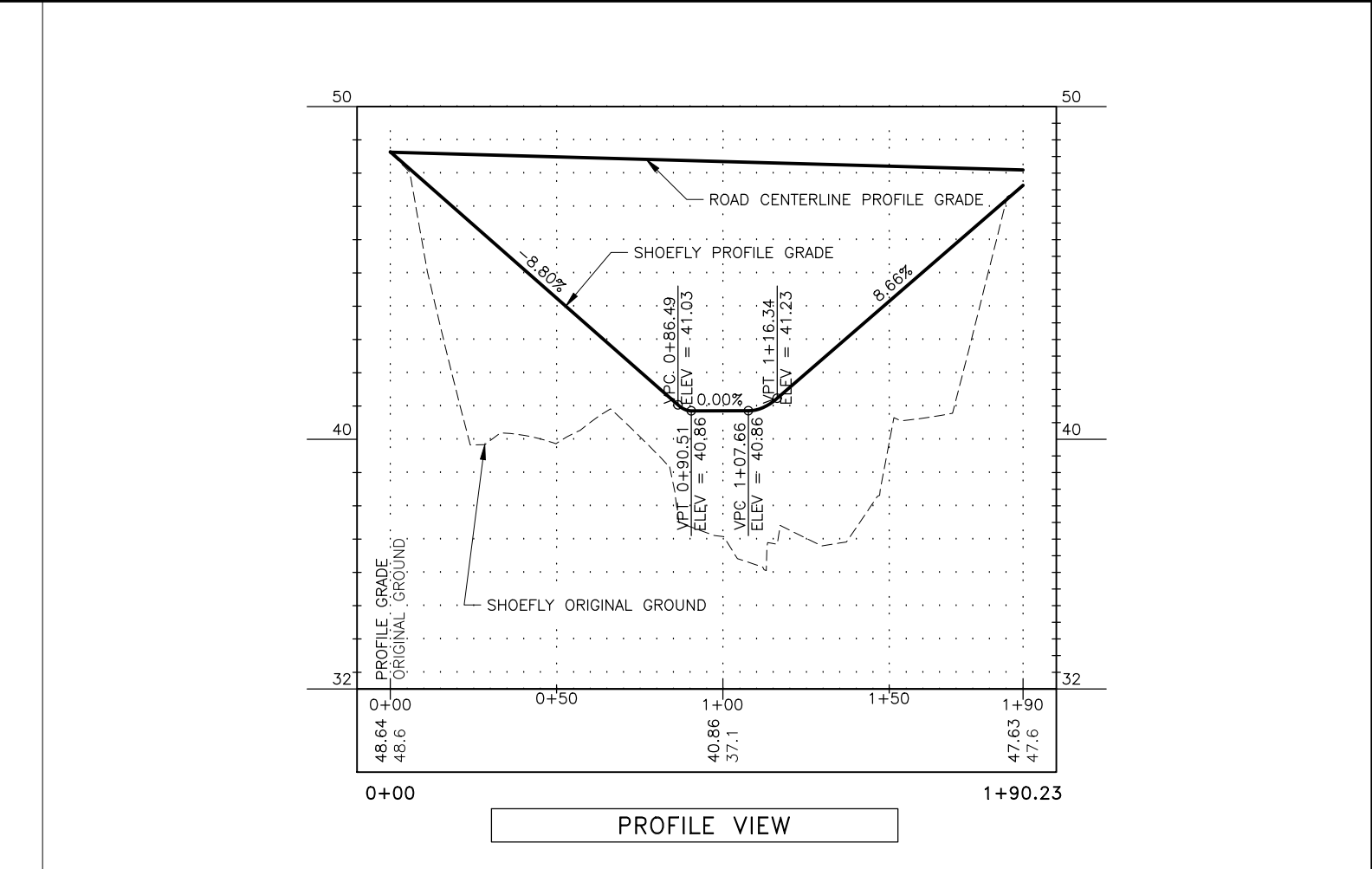
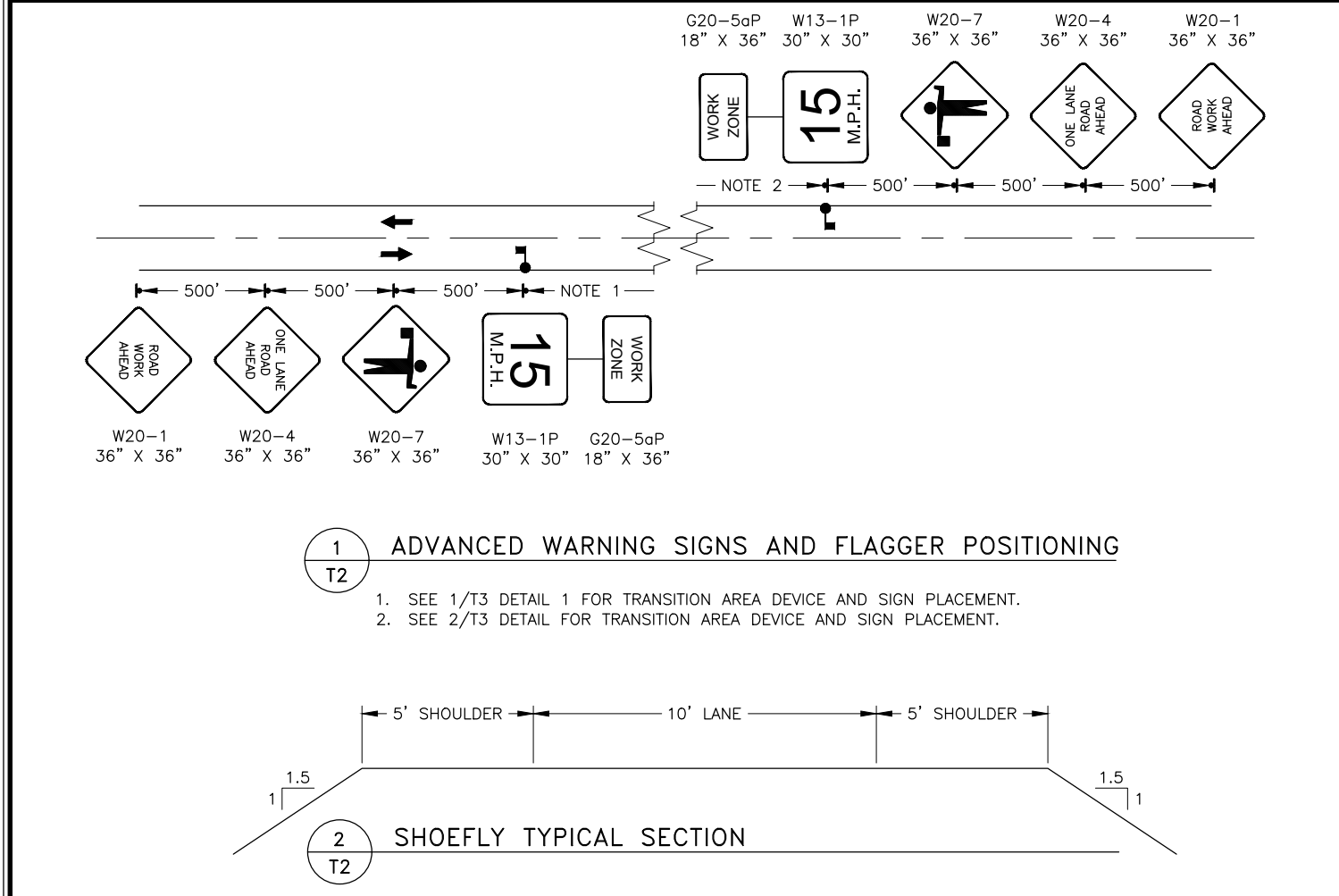
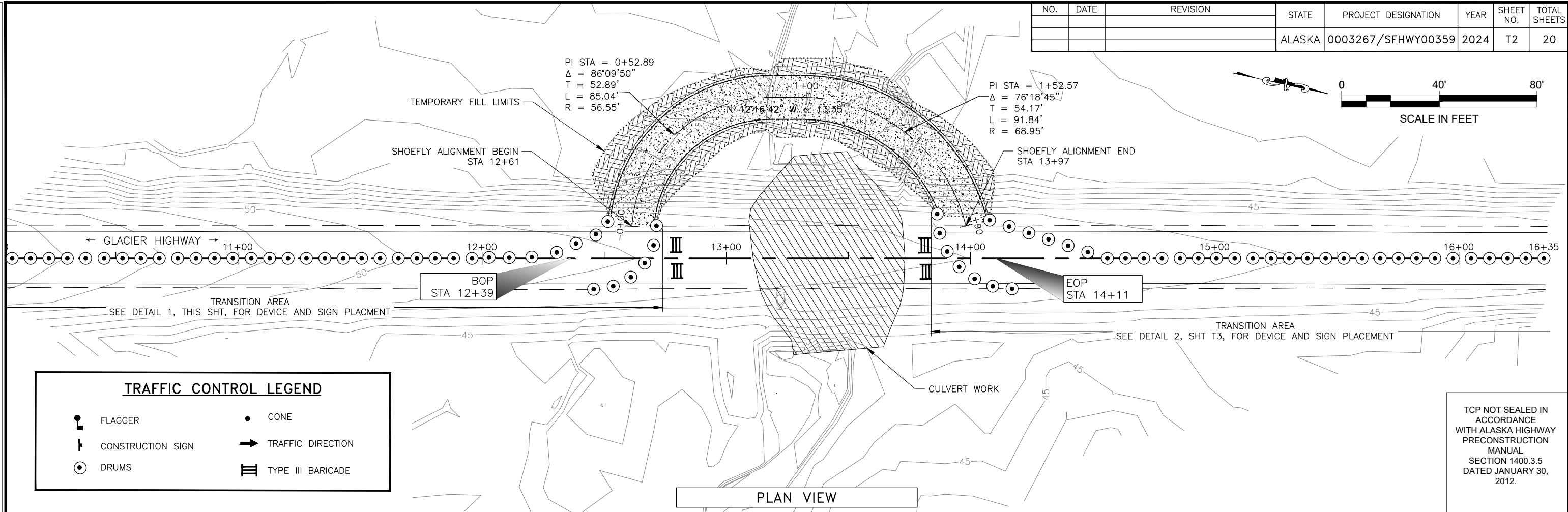
TRAFFIC CONTROL PLAN

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012.

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, SOUTHCOAST REGION, 6860 GLACIER HWY, JUNEAU, AK 99801 (907)465-1763
c:\jnu\SFHWY00359\PlanSet\SFHWY00359_T1-11 TRAFFIC CONTROL PLAN Fri, Feb/16/24 05:51pm

FIRM STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 FILE Q:\nu\SFHW\00359\Plan\set\SFHW\00359_T2.dwg
 ADDRESS 6860 GLACIER HWY, JUNEAU, AK 99811
 PHONE (907) 465-1763
 CERTIFICATE OF AUTH #:
 DRAFTED RM, AH, WU
 CHECKED BW
 DESIGNED RM, BW, AH
 LAYOUT T2
 DATE 2/16/2024 12:03
 TRAFFIC CONTROL

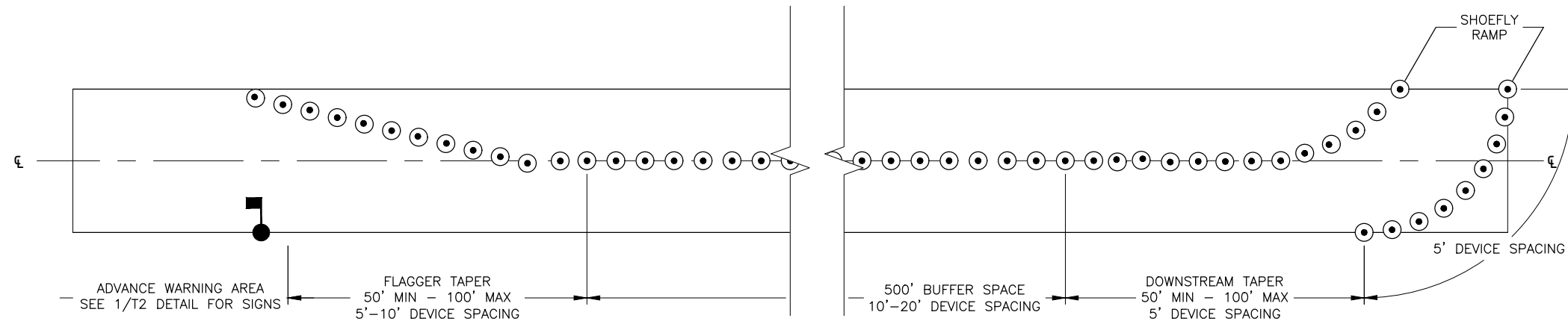
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHwy00359	2024	T2	20



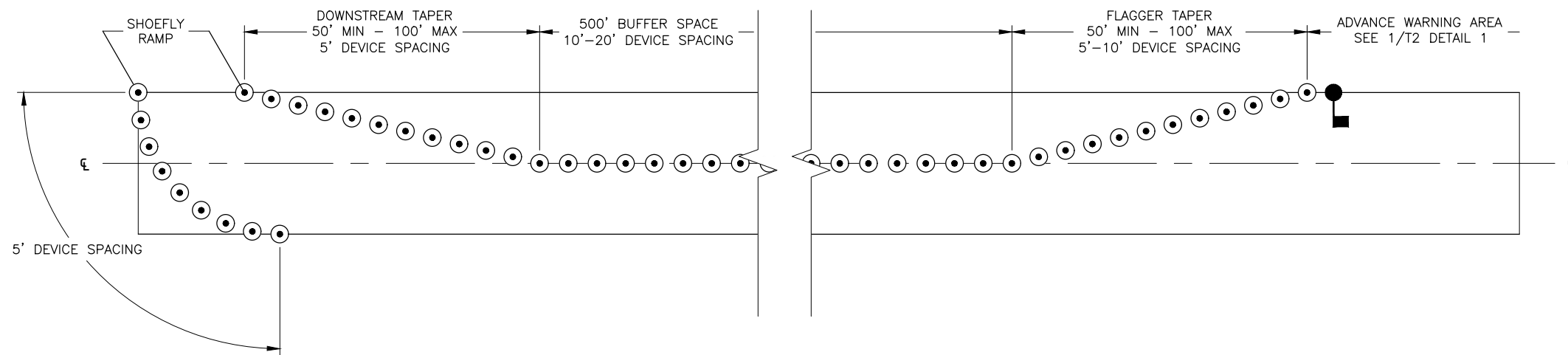
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0003267/SFHWHY00359	2024	T3	20

TRAFFIC CONTROL LEGEND

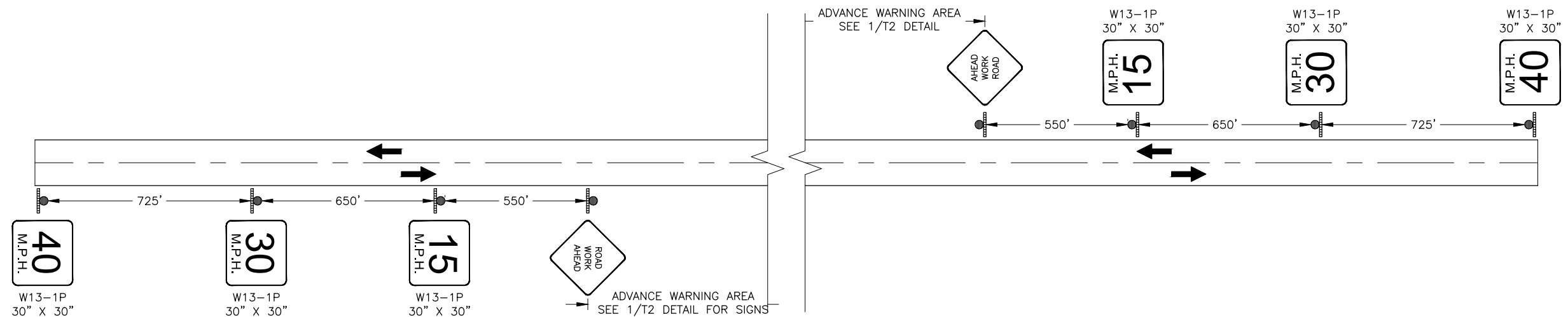
-  FLAGGER
-  CONSTRUCTION SIGN
-  DRUMS
-  CONE
-  TRAFFIC DIRECTION
-  TYPE III BARICADE



1 ADVANCE TRAFFIC DEVICE PLACEMENT - SOUTH APPROACH
T3



2 ADVANCE TRAFFIC DEVICE PLACEMENT - NORTH APPROACH
T3



3 SPEED REDUCTION SIGNS
T3

TRAFFIC CONTROL PLAN

TCP NOT SEALED IN ACCORDANCE WITH ALASKA HIGHWAY PRECONSTRUCTION MANUAL SECTION 1400.3.5 DATED JANUARY 30, 2012.