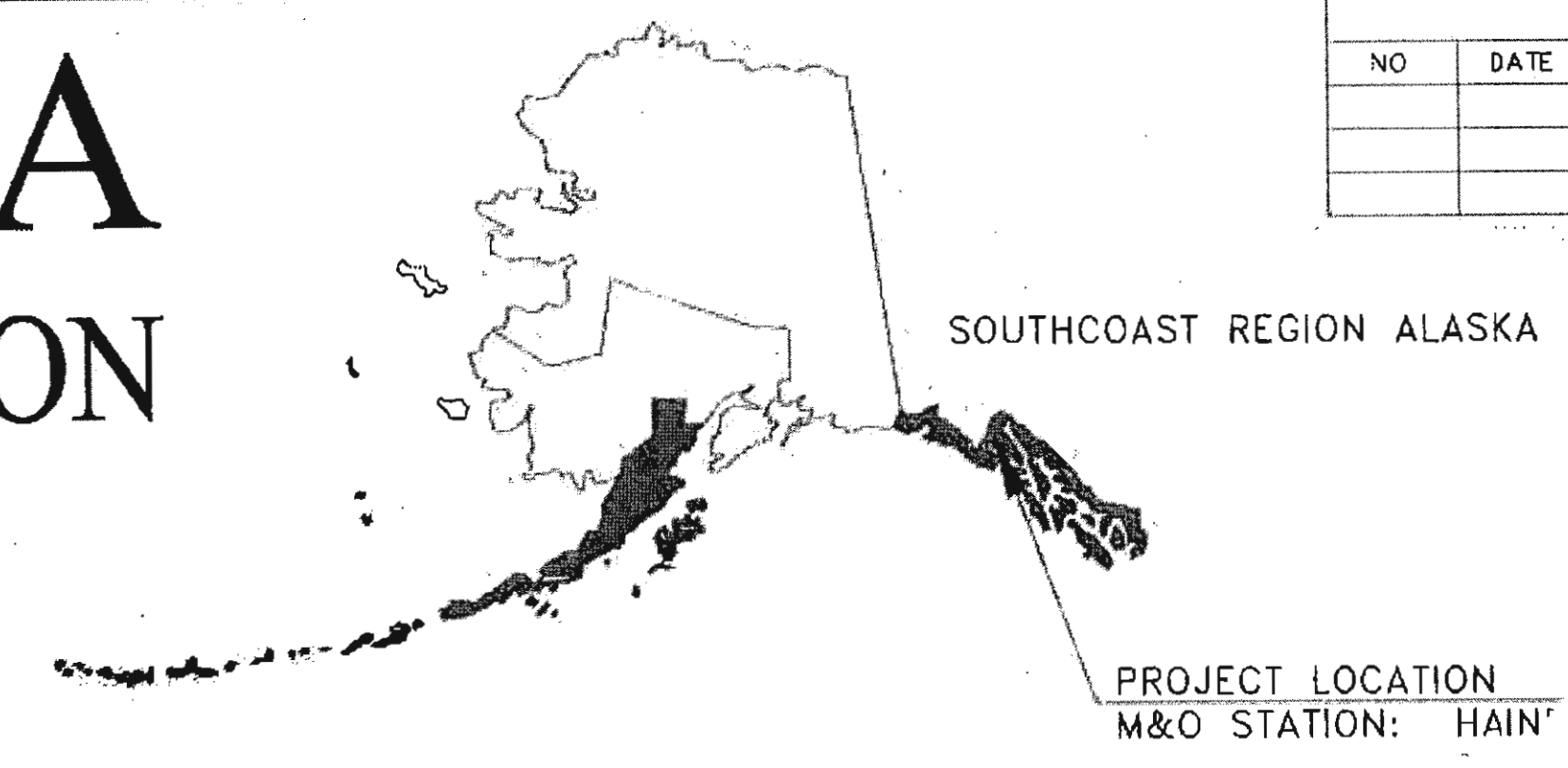


Q:\24\1850-01\55CAD\VP 3-12 PSE\A-C SHEETS\A1.dwg  
 DATE: 8/13/2017 10:31 LAYOUT: A1  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

# STATE OF ALASKA

## DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

### HAINES HIGHWAY RECONSTRUCTION MILEPOST 3.9 TO 12.2, PHASE 1 PROJECT NO. 0965(035)/SFHWY00126 GRADING, DRAINAGE, PAVING, SIGNING & STRIPING



REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
NO	DATE	DESCRIPTION	ALASKA	0965(035)/SFHWY00126	2017	A1	11
						PLAN SET TOTAL	162

CDS ROUTE: 298000 MILEPOINT: 3.43 TO 11.73  
 LATITUDE: N 59° 15' 59" LONGITUDE: W 135° 38' 00"

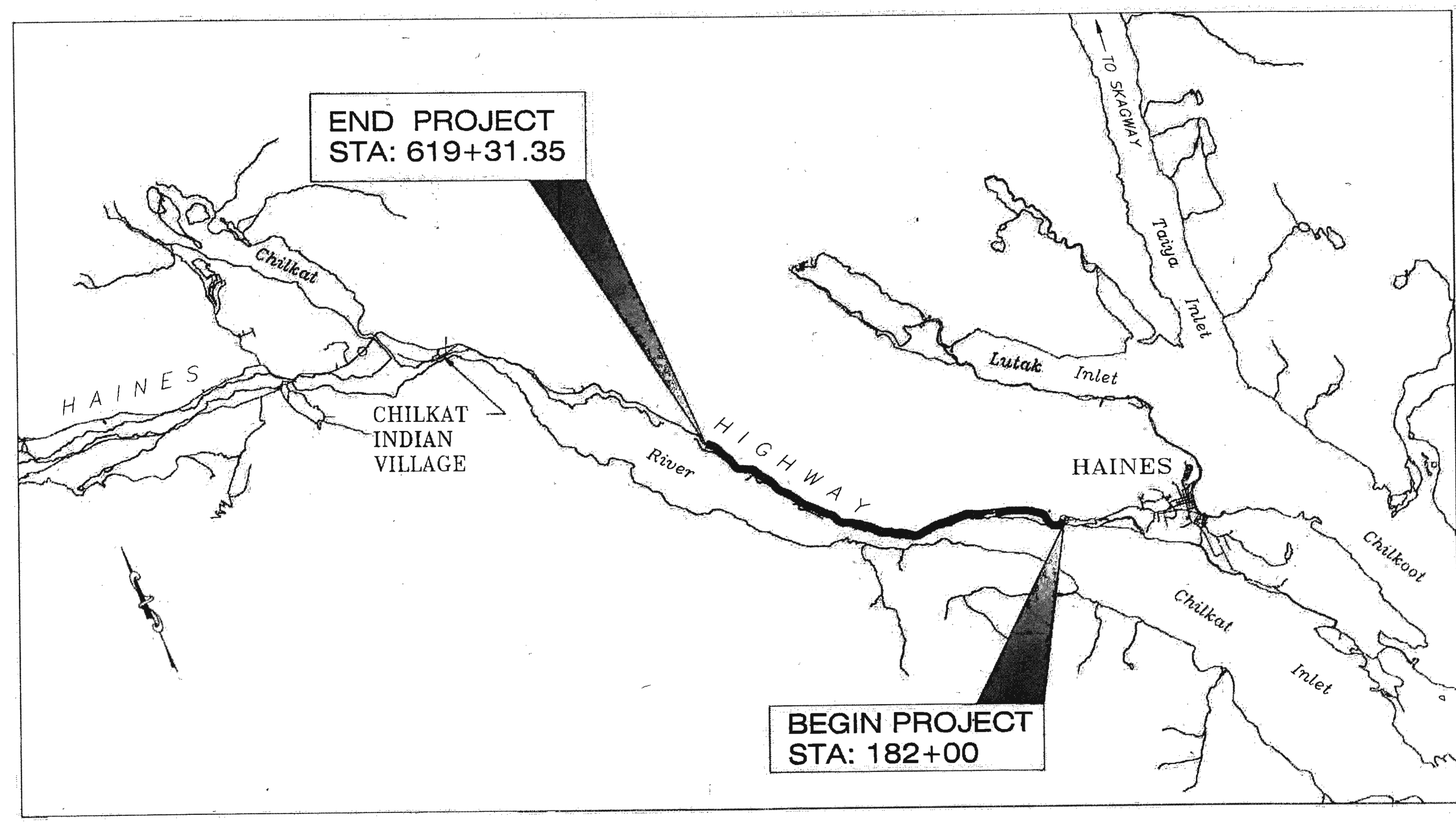
DESIGN DESIGNATIONS	
FUNCTIONAL CLASS	RURAL OTHER PRINCIPAL ARTERIAL
ADT (2013)	580
ADT (2037)	650
DHV (15.4%) 2011	90
DHV (15.4%) 2037	100
PERCENT TRUCKS (T)	15.1%
DIRECTIONAL SPLIT (D)	55/45
DESIGN SPEED (V)	55 MPH
DESIGN ESAL'S (20 YEARS)	1,450,000

The undersigned hereby certifies that this duplicated document is an exact and true copy of the original.

*Cody Salas*

PROJECT SUMMARY	
HAINES HIGHWAY MP 3.9 TO MP 12.2	
LENGTH OF PROJECT	8.3 MI.
LENGTH OF PAVING	8.3 MI.
WIDTH OF PAVING	36 FT.

Project Engineer: Theron Willard Date: 6-25-20  
 Contractor: SECON  
 Begin Date of Work: 4-2-2018 End Date of Work: 10-1-2020



VICINITY MAP  
N.T.S.

USE THESE PLANS IN CONJUNCTION WITH THE STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2015 EDITION AND THE PROJECT SPECIAL PROVISIONS

PLANS DEVELOPED BY: DOWL  
 5368 COMMERCIAL BLVD. - JUNEAU, AK 99801  
 907-780-3533 - #AECL848

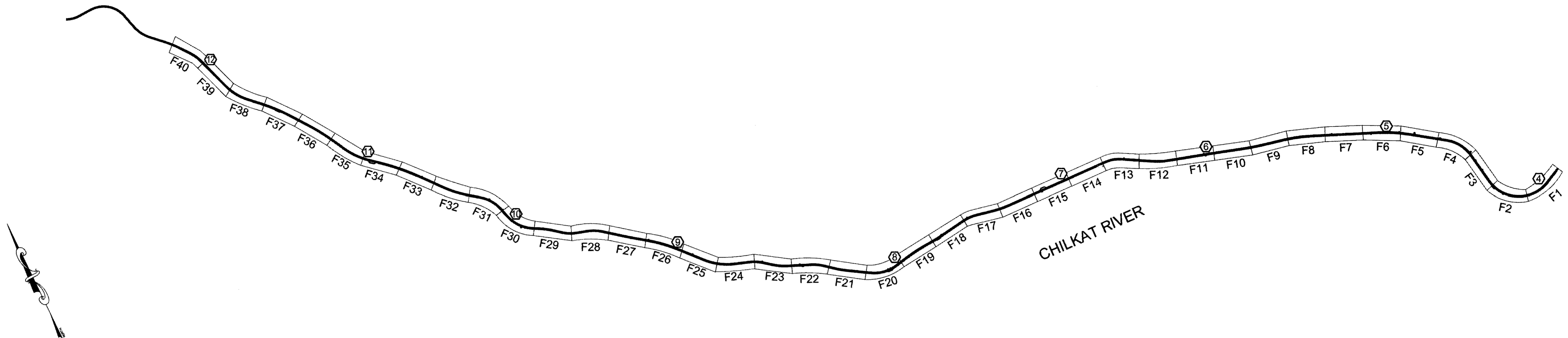
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

APPROVED: *Pat Carroll* 8/11/17  
 L. PAT CARROLL, P.E.  
 REGIONAL PRECONSTRUCTION ENGINEER  
 DATE

*Michael J. Coffey* 8/11/17  
 MICHAEL J. COFFEY  
 DIRECTOR, SOUTHCOAST REGION  
 DATE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
①	10-30-2017	REVISED INDEX OF SHEETS	ALASKA	0965(035)/SFHWY00126	2017	A2	162

FILE: 0:\24\161850-01\6560\WP 3-12 PSE\A-C SHEETS\A2-A3.dwg  
 DATE: 10/30/2017 10:24  
 LAYOUT: A2  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER



**ABBREVIATIONS**

@	AT
&	AND
AC	ACRES
ACI	AMERICAN CONCRETE INSTITUTE
ADOT	ALASKA DEPARTMENT OF TRANSPORTATION
ADT	AVERAGE DAILY TRAFFIC
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
ATB	ASPHALT TREATED BASE
BFS	BEGIN FULL SUPERELEVATION
BLC	BALLASTED LOGS CLUSTER
BM	BENCH MARK
B.O.P.	BEGINNING OF PROJECT
BOT	BOTTOM
BRG	BEARING
BVCE	BEGIN VERTICAL CURVE ELEVATION
BVCS	BEGIN VERTICAL CURVE STATION
CAP	CORRUGATED ALUMINUM PIPE
CAPA	CORRUGATED ALUMINUM PIPE ARCH
CC	CENTER TO CENTER
CFS	CUBIC FOOT PER SECOND
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CONN	CONNECTION
CONT	CONTINUOUS, CONTINUATION
CPP	CORRUGATED POLYETHYLENE PIPE, TYPE S
CSP	CORRUGATED STEEL PIPE
CTE	CONNECT TO EXISTING
CTR	CENTER
CY	CUBIC YARD
DET	DETAIL
DHV	DESIGN HOURLY VOLUME
DI OR Ø	DIAMETER
DOT&PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DWG	DRAWING
E	EAST

EA	EACH
EFS	END FULL SUPERELEVATION
EG	EXISTING GRADE
EL	ELEVATION
ENGR	ENGINEER
E.O.P.	END OF PROJECT
EP	EDGE OF PAVEMENT
ESCP	EROSION SEDIMENT CONTROL PLAN
EXP	EXPOSED, EXPANSION
EXST, EX	EXISTING
FDN	FOUNDATION
FG	FINAL GRADE
FL	FLOW LINE (ELEV)
FT	FOOT OR FEET
FW	FISH WHEEL
GAL	GALLONS
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
H	HEIGHT
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
ILMA	INTERAGENCY LAND MANAGEMENT ASSIGNMENT
IN	INCH
INVT, INV	INVERT
JT	JOINT
KIP	1000 POUNDS-FORCE
L	LEFT, LENGTH
LB	POUNDS
LF	LINEAR FOOT
LT	LEFT
LVC	LENGTH OF VERTICAL CURVE
MAX	MAXIMUM
ME	MATCH EXISTING
MEP	MATCH EXISTING PAVEMENT
MIN	MINIMUM
MISC	MISCELLANEOUS
MTE	MATCH TO EXISTING
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
NO, #	NUMBER, NUMBERING
NOM	NOMINAL

NTS	NOT TO SCALE
O.C./OC	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PL	PLACE, PLATE, PROPERTY LINE
PC, POC	POINT OF CURVATURE
POT, PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PST	PERFORATED STEEL TUBE
PVC	POLYVINYL CHLORIDE PLASTIC
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R, RAD	RADIUS
RD	ROAD
REF	REFER OR REFERENCE
REINF	REINFORCED, REINFORCING, REINFORCED
REQD	REQUIRED
ROW, RW	RIGHT-OF-WAY
RP	RIVER PROTRUSION
RT	RIGHT
S	SOUTH
SCH	SCHEDULE
SH, SHT	SHEET
SHLD	SHOULDER
SPCAPA	STRUCTURAL PLATE CORRUGATED ALUMINUM PIPE ARCH
SPECS	SPECIFICATIONS
SQ MI	SQUARE MILES
STA	STATION
STD	STANDARD
T	SQUARE STEEL TUBE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TCP	TEMPORARY CONSTRUCTION PERMIT
TYP	TYPICAL
VC, V.C.	VERTICAL CURVE
VERT, VI	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W	WEST
W	WIDTH

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	INDEX, SHEETS LAYOUT, AND ABBREVIATIONS
A3	LEGEND AND SYMBOLS
A4-A10	SURVEY CONTROL SHEETS
A11	EAGLE TREE LOCATIONS
B1-B4	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1-D9	SUMMARY TABLES
F1-F40	PLAN & PROFILE
G1-G9	TURNOUT, RECREATION FACILITIES & DRIVEWAYS
H1-H33	SIGNING AND STRIPING
J1-J12	MISCELLANEOUS DETAILS
① P1-P12A, P13	FISH PASSAGE PLAN AND PROFILE
P14-P16	STREAM MITIGATION
① P17-P21	FISH PASSAGE DETAILS
S1-S3	TRAFFIC CONTROL PLAN
T1-T19	EROSION SEDIMENT CONTROL PLAN

**THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:**

C-04.12	E-09.00	G-20.11	M-20.14	S-20.10
D-01.02	G-00.03	G-28.00	M-23.12	S-30.04
D-04.21	G-04.11S	I-81.00	S-00.11	
D-07.00	G-10.01	M-13.01	S-01.01	
D-30.11	G-13.00	M-16.01	S-05.01	

PLANS DEVELOPED BY: DOWL 5368 COMMERCIAL BLVD. JUNEAU, AK 99801 (907) 780-3533 #AECL848		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES <b>HAINES HIGHWAY RECONSTRUCTION</b> MILEPOST 3.9 TO 12.2 <b>INDEX, SHEET LAYOUT, AND ABBREVIATIONS</b>
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FILE q:\24161850-01\650AD\wp 3-12 pse\A-C SHEETS\A2-A3.dwg  
 DATE 6/13/2017 10:09 LAYOUT A3  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	A3	162

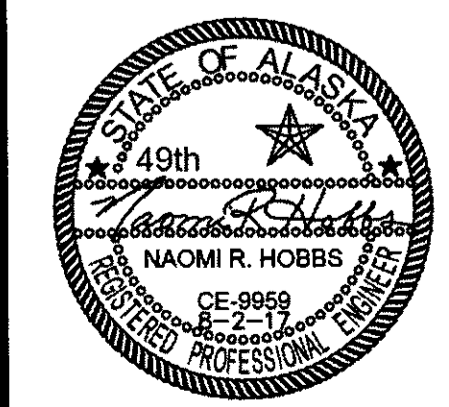
	RECOVERED	SET				
BLM MONUMENT						
GLO MONUMENT						
USC&GS MONUMENT						
PRIMARY MONUMENT						
CENTERLINE MONUMENT IN CASING						
PRIMARY R.O.W. MONUMENT						
BEARING OBJECT						
MISCELLANEOUS MONUMENT						
LINE OF SIGHT MONUMENT						
CONCRETE R.O.W. MONUMENT						
BENCHMARK						
REBAR AND CAP						
REBAR						
IRON PIPE						
PK NAIL						
SPIKE						
HUB AND TACK						
CONSTRUCTION CENTERLINE						
MICELLANEOUS CENTERLINE						
STATION EQUATION	$\frac{L}{100} = \frac{48+97.23 \text{ POT BK} - 5+00}{100}$ $\frac{0}{100} = \frac{48+97.23 \text{ PC AHD} - 5+00}{100}$					
PROJECT RIGHT-OF-WAY LINE						
EXISTING RIGHT-OF-WAY LINE						
EXISTING PROPERTY LINE						
EASEMENT/ILMA/MATERIAL SALE AREA						
TCE/TCP						
PROPOSED CUT SLOPE LIMIT						
PROPOSED FILL SLOPE LIMIT						
SECTION LINE						
1/4 SECTION LINE						
1/16 SECTION LINE						
TOWNSHIP & RANGE LINE	<table border="0"> <tr> <td>T. 2 N.</td> <td>T. 2 E.</td> </tr> <tr> <td>T. 1 N.</td> <td>T. 1 E.</td> </tr> </table>	T. 2 N.	T. 2 E.	T. 1 N.	T. 1 E.	
T. 2 N.	T. 2 E.					
T. 1 N.	T. 1 E.					

	EXISTING	PROPOSED
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT		
TELEPHONE PEDESTAL		
TELEPHONE PEDESTAL		
ELECTRIC PEDESTAL		
BURIED CABLE MARKER		
RIPRAP		
WATER BOUNDARY		
TOP OF BANK		
FLOW CENTERLINE		
EXISTING CHANNEL		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
ROADWAY/PAVEMENT HATCH		
GUARDRAIL		
GUARDRAIL PARALLEL END SECTION		
GUARDRAIL END ANCHOR		
CULVERT PIPE		
SIGN		
MAILBOX		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
NOOTKA ROSE TREE		
DOGWOOD TREE		
RED ALDER TREE		
CROWN LINE		
GRADE BREAK		
WORK LIMITS		
MAJOR CONTOURS		
MINOR CONTOURS		
MILE POST		
UTILITY TRENCH		

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

PLANS DEVELOPED BY:  
 DOWL  
 5368 COMMERCIAL BLVD.  
 JUNEAU, AK 99801  
 (907) 780-3533  
 #AECL848



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
**LEGEND AND SYMBOLS**

7-20 6-85-20

DRAWING LOCATION: C:\hms\66606\SV\AC\30\BASEMAPS\C-30\14\HNS\_4\_13\_SCS\_013117.dwg  
 DATE TIME: 8/20/2017 13:22  
 LAYOUT: SCS 1  
 SCALE: REFS  
 SHEETS: 162

**HORIZONTAL & VERTICAL BASIS**

Haines Highway Project # 68606  
 Haines Highway 3.5 mile to 24 Mile

**HORIZONTAL CONTROL**

The basis of horizontal control is "HNS-D", a Primary Airport Control Station, 3.5" Brass Cap located in bedrock adjacent to Haines Highway near the northwesterly end of the airport access road.

NGS published coordinates NAD83 (1992)  
 Latitude : N 59°14'53.13661"  
 Longitude : W 135°32'03.05281"  
 Ellipsoid Ht: 16.353m

The basis of bearing for this project is the local grid bearing of S 49°22'48" E from HNS-D to HNS-A. This bearing was derived from GPS and conventional observations plus the applied convergence angle of -1°34'03.84" described below.

The Haines 4-24 Grid is based about NGS monument HNS-A, a 3.5" Brass Cap located in a 6'x3' concrete pad near the hold bar on taxiway B. The Grid system relates to AKSPC zone 1 NAD83(1992) through the following parameters:

Datum = NAD83(92) AKSPC ZONE 1  
 Grid Scale = 0.99995319  
 Convergence = -1°34'03.84"

Translation about HNS-A as follows:  
 AKSPC Northing = 2711876.84 FT US  
 AKSPC Easting = 2337586.75 FT  
 US Local Northing = 500000.00 FT US  
 Local Easting = 700000.00 FT US

**PROJECT SPECIFIC HORIZONTAL CONTROL**

HNS-D :  
 HNS-Grid  
 N 501107.97 FT US, E 698634.33 FT US  
 AKSPC  
 N 2713021.70 FT US, E 2336251.96 FT US

HNS-A :  
 HNS-Grid  
 N 500000.00 FT US, E 700000.00 FT US  
 AKSPC  
 N 2711876.84 FT US, E 2337586.75 FT US

**VERTICAL CONTROL**

The basis of vertical control is the USC&GS benchmark "M-141" with a NAVD88 published elevation of 107.42'.

The project specific basis of vertical control is HNS-D with an observed elevation of 33.95' NAVD88.

**TBM Summary**

**Location of TBM by Station is approximate only**

TBM #1 Elev = 28.11', Spike in PP W95, Sta: 221+47 Rt

TBM #2 Elev = 28.43', Spike in PP W113, Sta: 268+07 Rt

TBM #3 Elev = 30.20', Spike in Double Cottonwood Tree Near Mile 6.25. Tree is on Riverside @ Yellow metal Sign "Gas Location" Sta: 304+91 Lt

TBM #4 Elev = 36.65', Spike in Cottonwood Tree Just North Mile 7 Sign. Tree is on Riverside, Sta: 338+53 Lt

TBM #5 Elev = 37.93', Top Guard Rail Post on Riverside. Sta: 368+96 Lt

TBM #6 Elev = 38.29', Set Spike Riverside Across From Stone House. Sta: 395+26 Lt

TBM #7 Elev = 43.93', Set Spike In 36" Cotton Wood Tree, Sta: 417+96 Lt

TBM #8 Elev = 41.25', Sta: 475+84 Lt

TBM #9 Elev = 48.25', Set Spike In Cut Off PP @Hydro Shed 10.5 Mile, Sta: 518+05 Rt

TBM #10 Elev = 46.67', 2.5" BC Set Vertically in Rock Face Same as Point #255, Sta: 545+86 Rt

TBM #11 Elev = 47.74', Set Spike in Cotton Wood Tree On Riverside Back of Second Pull Out North of Point #63, Sta: 566+42 Lt

TBM #12 Elev = 50.84', 2.5" BC Set Vertically in Rock Face Adjacent to Point #65, Sta: 589+38 Rt

TBM #13 Elev = 51.85', Set Spike Between End of Guard Rail and Point #68 Sta: 629+19 Lt

TBM #14 Elev = 57.37', Set Spike in Double Cotton Wood Tree Between Driveways, Sta: 647+31 Rt

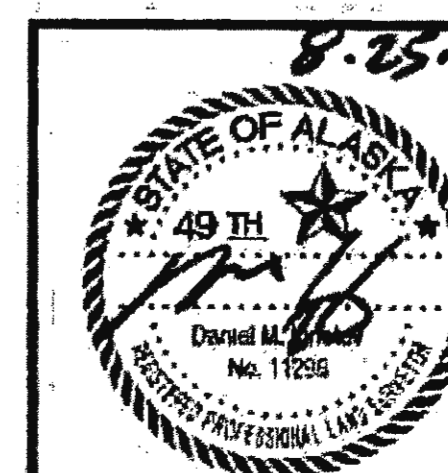
**SURVEY MONUMENT NOTES:**

1. 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.

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	Z686060000	2017	A4	162

Survey Control Table						
Point #	Northing	Easting	Elevation	Description	Station	Offset
40	501632.14	697157.38	29.22	GPS_ALCTRL2.5"_H4-2	202+25.89	37.87L
41	503307.06	696865.28	29.36	GPS_ALCTRL2.5"_H4-3	219+11.17	49.65R
42	504543.97	695249.80	29.07	GPS_ALCTRL2.5"_H4-4	239+34.69	29.29R
43	505719.23	692621.53	28.14	GPS_ALCTRL2.5"_H4-5	268+10.44	17.82R
44	506122.06	691037.29	29.50	ALCTRL2.5"_H4-6	284+43.56	17.43L
45	506875.73	688880.84	29.21	ALCTRL2.5"_H4-7	307+28.99	10.89R
46	507599.53	687580.65	31.46	GPS_ALCTRL2.5"_H4-8	322+16.85	19.85R
51	508773.62	678574.58	39.94	ALCTRL2.5"_H4-12	415+87.40	7.51L
52	509312.55	677563.62	47.91	ALCTRL2.5"_H4-13	427+46.32	24.35R
53	509752.78	677003.46	46.67	ALCTRL2.5"_H4-14	434+48.21	44.28R
54	510080.87	676111.51	40.24	ALCTRL2.5"_H4-15	443+93.49	0.90L
57	512487.67	673454.76	41.22	ALCTRL2.5"_H4-18	479+94.26	24.62L
58	513591.98	671606.83	40.54	GPS_ALCTRL2.5"_H4-19	501+70.41	5.50L
59	514647.58	670974.86	40.20	GPS_ALCTRL2.5"_H4-20	514+33.38	37.19L
60	515675.93	670106.65	42.11	GPS_ALCTRL2.5"_H4-21	527+30.87	14.05R
61	516986.01	668897.30	44.17	ALCTRL2.5"_H4-22	545+90.21	6.24R
62	517618.32	668154.61	44.91	GPS_ALCTRL2.5"_H4-23	555+63.77	27.49L
63	518189.80	667740.48	45.30	ALCTRL2.5"_H4-24	562+63.81	30.20L
64	519238.15	667183.83	47.54	GPS_ALCTRL2.5"_H4-25	574+51.57	9.57R
65	520412.13	666276.37	49.50	GPS_ALCTRL2.5"_H4-26	589+35.54	13.39R
66	521056.65	665647.68	50.36	GPS_ALCTRL2.5"_H4-27	598+33.37	27.79L
68	523968.15	664026.07	51.33	ALCTRL2.5"_H4-29	N\A	N\A
69	524906.89	663682.53	53.20	GPS_ALCTRL2.5"_H4-30	N\A	N\A
70	525142.59	663256.66	55.42	ALCTRL2.5"_H4-31	N\A	N\A
88	510521.49	675577.84	40.54	ALCTRL_H4_16_REPLACES_55	450+86.39	18.38L
89	507712.45	680140.36	41.20	ALCAP2.5"_H4-11_RESHOT49	396+93.16	27.26L
246	525167.40	663315.41	0.00	RM_PK_YELLOW_TAG	N\A	N\A
247	524877.38	663650.66	0.00	RM_PK_YELLOW_TAG	N\A	N\A
248	523937.81	663969.06	0.00	RM_PK_YELLOW_TAG	N\A	N\A
252	519245.29	667193.42	0.00	RM_PK_YELLOW_TAG	574+51.98	21.51R
256	515536.91	670054.33	0.00	RM_PK_YELLOW_TAG	527+40.07	50.56L
257	514743.36	670977.63	0.00	RM_PK_YELLOW_TAG	515+19.56	7.21R
258	513563.03	671586.51	0.00	RM_PK_YELLOW_TAG	501+72.75	40.79L
261	510555.22	675626.58	0.00	RM_PK_YELLOW_TAG	450+80.45	40.59R
262	510090.75	676193.48	0.00	RM_PK_YELLOW_TAG	443+25.73	47.52R
264	509318.85	677563.63	0.00	RM_PK_YELLOW_TAG	427+41.05	34.99R
265	508841.95	678594.41	0.00	RM_PK_YELLOW_TAG	416+09.12	60.10R
266	507775.95	680116.75	0.00	RM_PK_YELLOW_TAG	397+31.23	28.81R
270	506881.32	688900.24	0.00	RM_PK_YELLOW_TAG	307+13.20	23.64R
272	506183.06	691039.26	0.00	RM_PK_YELLOW_TAG	284+61.41	40.93R
275	503216.04	696932.63	0.00	RM_PK_YELLOW_TAG	218+04.79	65.60R
276	501637.87	697232.93	0.00	RM_PK_YELLOW_TAG	201+96.84	32.09R



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

**HAINES HIGHWAY RECONSTRUCTION  
 MILEPOST 3.9 TO 12.2  
 STATE PROJECT # SFHWY00126  
 SURVEY CONTROL**

Top 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z686060000	2017	A5	162

Centerline Monuments To Be Removed					
Point #	Northing	Easting	Description	Station	Offset
587	522880.24	664920.39	CL_MON_DOH	618+07.48	0.66L
588	521776.36	665399.49	CL_MON_DOH_PI	605+90.94	14.03L
589	520656.04	665955.37	CL_MON_DOH	593+35.27	38.60L
590	519888.36	666703.92	CL_MON_DOH	582+59.63	6.46L
591	518960.36	667359.46	CL_MON_DOH_PI	571+23.29	4.43R
592	517951.88	667885.13	CL_MON_DOH_PI	559+88.16	24.64L
593	517450.29	668323.16	CL_MON_DOH_PI	553+28.39	38.63L
594	517181.34	668691.46	CL_MON_DOH_PI	548+73.79	2.60R
595	516545.54	669282.14	CL_MON_DOH_PI	540+05.36	1.88L
596	515782.32	669896.28	CL_MON_DOH	530+25.75	2.36L
597	515291.15	670403.07	CL_MON_DOH	523+19.22	3.20L
598	515053.30	670718.20	CL_MON_DOH_PI	519+24.49	1.48R
599	514730.49	670946.87	CL_MON_DOH	515+22.85	25.97L
600	514408.44	671083.22	CL_MON_DOH	511+68.09	4.27L
601	512926.39	672591.55	CL_MON_DOH	489+77.65	2.28R
602	513099.09	672314.23	CL_MON_DOH	493+05.56	2.59L
603	513297.41	672104.63	CL_MON_DOH_PI	495+93.14	15.74R
604	513606.53	671539.16	CL_MON_DOH	502+34.10	29.98L
605	514173.74	671127.24	CL_MON_DOH	509+31.09	20.84L
606	512758.76	673041.96	CL_MON_DOH	484+96.63	10.76L
607	512600.89	673303.21	CL_MON_DOH	481+85.83	30.29L
608	512407.43	673518.86	CL_MON_DOH_PI	478+93.68	45.37L
609	511438.63	674830.13	CL_MON_DOH_PI	462+67.25	28.28R
610	509899.57	676547.36	CL_MON_DOH_PI	439+20.46	6.44R
611	510037.96	676216.04	CL_MON_DOH_PI	442+80.77	10.90R
612	509611.63	677176.58	CL_MON_DOH	432+31.36	28.12R
613	509800.81	676848.74	CL_MON_DOH	436+04.24	19.05R
614	509202.41	677716.21	CL_MON_DOH	425+48.97	4.92R
615	509409.46	677401.91	CL_MON_DOH	429+28.54	15.95R
616	508669.12	678734.04	CL_MON_DOH	413+97.48	10.61R
617	508844.80	678487.84	CL_MON_DOH	416+98.87	6.08R
618	508451.78	678942.89	CL_MON_DOH_PI	410+97.49	15.17L
619	507721.36	680412.65	CL_MON_DOH	394+24.69	8.10R
620	507850.69	679846.80	CL_MON_DOH	400+13.28	4.99L
621	507879.15	682026.50	CL_MON_DOH_PI	378+00.14	3.97L
622	507853.91	681367.70	CL_MON_DOH_PI	384+59.20	4.75R
623	507802.92	684018.52	CL_MON_DOH_PI	357+81.68	10.17L
624	508009.56	683110.15	CL_MON_DOH_PI	367+10.73	17.41R
625	507618.67	687366.08	CL_MON_DOH	324+29.68	3.70R
626	507475.06	687829.09	CL_MON_IP_NO-CAP	319+41.46	0.27L
627	506613.71	689638.46	CL_MON_DOH	299+26.21	4.82R
628	506022.66	691391.74	CL_MON_IP_NO-CAP_PI	280+76.06	3.48L
629	505543.12	693024.95	CL_MON_DOH	263+71.36	1.21L
630	505765.93	692392.79	CL_MON_DOH	270+42.66	1.57L
631	504520.67	695273.01	CL_MON_DOH_PI	239+03.11	20.79R
632	502997.38	696940.00	CL_MON_DOH	216+02.55	2.96L
633	503531.58	696616.38	CL_MON_DOH	222+36.45	2.86R
634	501897.62	697109.83	CL_MON_DOH	204+88.86	4.38R
635	501161.37	697949.12	CL_MON_DOH	192+56.76	87.54R
636	501236.39	697690.54	CL_MON_DOH	195+48.15	71.66R
637	501249.88	697648.26	CL_MON_DOH	195+94.68	63.24R
638	501224.64	698755.05	CL_MON_NO-CAP	184+01.63	2.29L

Approximate Location of New Shoulder Monuments					
Point #	Northing	Easting	Description	Station	Offset
1600	501163.77	697613.58	APPROX_SH_MON	195+82.21	28.77L
1601	501571.50	697093.10	APPROX_SH_MON	202+02.51	122.58L
1602	503381.35	698817.24	APPROX_SH_MON	219+95.68	50.85R
1603	504555.30	695308.20	APPROX_SH_MON	238+90.48	66.49R
1604	505700.63	692791.03	APPROX_SH_MON	266+45.72	55.84R
1605	506138.10	690953.97	APPROX_SH_MON	285+27.60	29.18L
1606	506913.71	688888.27	APPROX_SH_MON	307+37.42	48.69R
1607	507605.69	687600.26	APPROX_SH_MON	322+00.07	31.22R
1608	507794.53	684011.02	APPROX_SH_MON	357+87.77	19.61L
1609	507879.36	681505.48	APPROX_SH_MON	383+20.68	22.54R
1610	507720.35	680137.33	APPROX_SH_MON	396+97.77	20.23L
1611	508759.40	678565.30	APPROX_SH_MON	415+86.90	24.49L
1612	509318.68	677544.26	APPROX_SH_MON	427+57.69	24.56R
1613	509742.92	676996.68	APPROX_SH_MON	434+49.15	32.34R
1614	510054.53	676098.32	APPROX_SH_MON	443+91.72	36.38L
1615	510513.30	675564.41	APPROX_SH_MON	450+88.86	33.92L
1616	511477.14	674781.54	APPROX_SH_MON	463+28.63	22.99R
1617	512541.78	673401.66	APPROX_SH_MON	480+69.69	16.94L
1618	513577.33	671600.55	APPROX_SH_MON	501+68.26	21.28L
1619	514655.37	670988.14	APPROX_SH_MON	514+35.24	21.90L
1620	515548.13	670154.22	APPROX_SH_MON	526+77.13	27.64R
1621	517008.63	668983.79	APPROX_SH_MON	545+46.27	83.93R
1622	517669.16	668096.08	APPROX_SH_MON	556+39.91	34.39L
1623	518254.44	667691.83	APPROX_SH_MON	563+43.62	43.44L
1624	519251.59	667222.38	APPROX_SH_MON	574+40.75	48.92R
1625	520438.33	666321.69	APPROX_SH_MON	589+22.15	63.96R
1626	521091.28	665626.21	APPROX_SH_MON	598+73.29	29.96L
1627	522584.54	665155.98	APPROX_SH_MON	614+32.05	22.18R

All OFFSETS = 16' ±

Proposed Location of Shoulder Monuments To Be Set After Construction. Shoulder Monuments Must Be Line of Sight Between Each Monument. Contractor Can Move the Shoulder Monuments and Cases As Needed to Maintain Sight Line Between Shoulder Monuments as Directed by Engineer.

1602a	---	---	---	214' ± φ	16' ± RT
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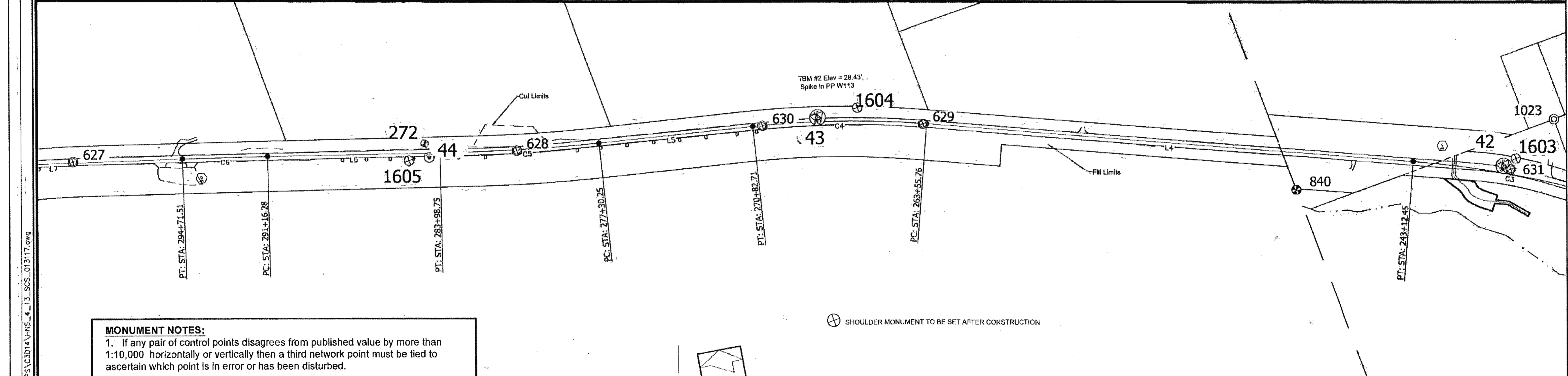
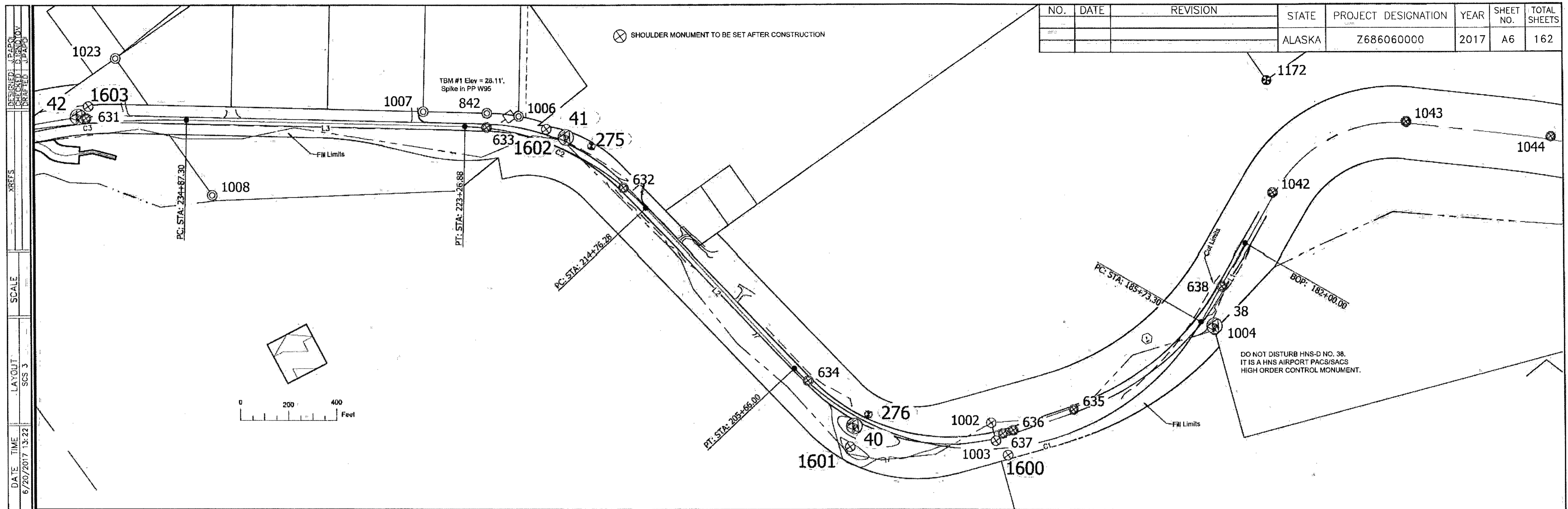
Existing Property Monuments					
Point #	Northing	Easting	Description	Station	Offset
38	501107.97	688634.33	GPS_BC2" _NGS-PACS_HNS-D	185+60.42	56.80L
255	516990.41	668901.88	BM_BC_GSC_VERT_521F	545+90.14	12.59R
583	525147.87	663048.67	CL_MON_DOH	N/A	N/A
584	524527.06	663857.98	CL_MON_DOH	N/A	N/A
585	524088.98	663967.23	CL_MON_DOH	N/A	N/A
586	523607.98	664258.51	CL_MON_DOH	N/A	N/A
813	511711.26	674560.88	BLM_BC3.25" _RM_S5685_L3_C1/S5217_C11	466+45.42	57.30R
814	511461.24	674926.56	BLM_BC3.25" _RM_S5217_C10	462+14.65	111.62R
815	511375.26	675017.24	BLM_BC3.25" _RM_S5217_C9	460+93.21	115.71R
816	511137.85	675162.27	BLM_BC3.25" _RM_S5217_C8	458+25.06	65.10R
818	510846.05	675629.71	ALSEC2" _L5A/L5B_4469S	452+99.78	231.61R
820	510873.06	675492.28	ALSEC2" _WC_L5A_4469S	454+09.47	144.52R
821	510499.36	676058.74	ALSEC2" _L5C_4469S	447+04.27	312.58R
822	510391.55	676010.01	ALSEC2" _L5/L6_4469S	446+68.35	198.35R
823	510347.50	675978.65	REBAR	446+64.85	144.37R
824	510612.89	676047.57	ALSEC2" _L5C_4469S	448+08.40	390.03R
825	510850.45	675965.25	REBAR	450+85.49	489.85R
826	510737.62	675825.45	REBAR	450+90.29	310.26R
827	510724.84	675773.82	ALSEC2" _L5B_4469S	451+14.04	262.67R
828	509819.86	677078.02	ALSEC2" _RM_S5217_C1/RM_S5685_L2_C1	434+20.28	139.96R
830	509366.37	677554.35	BLM_BC3.25" _RM_S5685_L2_C4/L1_C1	427+75.49	70.13R
832	509101.93	678074.74	USC&GS_BC3.75" _BRENDA_AZI	421+81.03	62.27R
834	512147.43	674063.63	BLM_BC3.25" _RM_S5685_L3_C4	473+05.79	99.16R
836	515271.19	670733.10	GLO_BC_C1/4_S8	520+45.54	182.31R
838	507882.32	684811.83	BLM_BC3.25" _WCMC_S5906_L3_C4	349+94.60	125.05R
840	504748.64	694399.26	GLO_BC2.5" _WCMC_S24_T30S_R58E/S19_T30S_R	247+91.38	154.90L
842	503578.98	696651.42	PLASCAP	222+41.07	61.62R
843	515259.76	670726.02	BT_16" PINE_C1/4_S8_BT	520+44.17	168.94R
844	515271.57	670528.51	ALSEC2" _1410S	522+07.89	57.82R

Existing Property Monuments to be Referenced and Replaced					
Point #	Northing	Easting	Description	Station	Offset
50	508209.28	679255.48	GPS_USGS_BC3.5" BRENDA_NO.2	407+04.12	28.16L
504	508190.78	679268.33	GPS_USC&GS "BRENDA"	406+83.22	36.56L
1017	507721.67	684906.78	BLM_BC3.25" _L3C5/L2C1WCMC_S906	348+90.88	30.08L
1018	507708.50	684905.92	BLM_BC3.25" _L3C6/L2C2_S906	348+91.01	43.28L
1019	507676.04	685842.60	BLM_BC3.25" _L2C4/L3C8WCMC_S906	339+53.97	23.67L
1032	512624.99	673365.19	GLO_BC2.5" _S8/9/17/16	481+49.58	25.51R

NOT DISTURBED  
NOT DISTURBED  
NOT DISTURBED

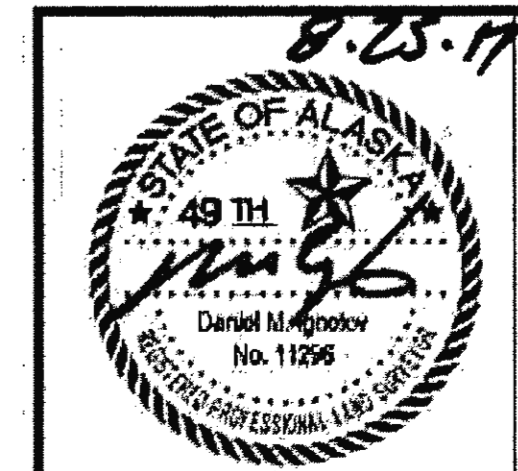
Existing Property Monuments					
Point #	Northing	Easting	Description	Station	Offset
845	513396.58	672048.25	ALCAP2" _1410S	496+96.35	60.85R
860	524739.83	663071.32	GLO_BC2.5" _WCMC_S36_T29SR57E/S31_T29SR58	N/A	N/A
861	507799.73	680130.59	GLO_BC	397+23.51	55.31R
1002	501314.05	697633.11	ALCAP3.25" _S908/C4_ATS1053	196+45.00	110.28R
1003	501241.60	697606.75	ALCAP3.25" _WC_C3_ATS1053	196+27.64	34.90R
1004	501093.17	698625.28	BLM_BC3.25" _C1_TR2_S3151	185+74.80	66.37L
1006	503491.75	696752.95	PLASCAP_EMPS_3136S	221+15.21	70.27R
1007	503736.88	696436.99	PLASCAP_EMPS_3136S	225+02.49	57.97R
1008	503956.96	695516.37	ALSEC_EMPS	233+74.32	310.67L
1010	507713.66	686268.35	BLM_BC2.5" _WCMC_C1L3_S906	335+30.97	37.54R
1020	507981.45	680539.49	BLM_BC3.25" _L9C3/L10_S3394/C2S2896	392+52.93	253.35R
1021	508309.66	680493.76	BLM_BC3.25" _C3_S2896/L7C2/C3_S3394	392+41.01	584.52R
1022	508306.83	682227.11	GLO_BC3.25" _L3C3/L2C2/C6_S3394	375+50.55	399.14R
1023	504653.47	695515.45	ALSEC2" _EMPS_3136-S	237+69.81	260.34R
1027	507299.93	689207.81	GLO_BC2.5" _S13/14/23/24	305+49.56	523.95R
1033	517938.83	668095.42	STONE_X_S5/6/7/B	558+51.77	139.04R
1034	517289.13	668096.83	GLO_BC2.5" _MC_S7/S8	553+95.17	308.33L
1035	523224.31	663067.07	GPS_GLO_BC2.75" _S36/S31/S6/S1	N/A	N/A
1036	508250.96	680068.68	BLM_BC3.25" _C4_S2896_1950	400+26.05	452.55R
1042	501419.77	699152.82	CL_MON_PT202+42.78	N/A	N/A
1043	501338.27	699781.34	SH_MON_196+00.10	N/A	N/A
1044	500936.72	700243.97	SH_MON_189+89.88	N/A	N/A
1159	508611.59	681142.29	BLM_BC3.25" _C3_L6/C2_L5/C4_S3394_WC	386+01.35	779.81R
1165	523207.20	664709.77	BLM_BC3.25" _WCMC_S31_T29S/S6_T30S_R58E	N/A	N/A
1166	512611.45	673105.16	BLM_BC3.25" _WCMC_S8/S17_T30SR58E	483+74.05	121.78L
1167	512444.20	673365.32	BLM_BC3.25" _AP/S17/S16_T30SR58E	480+35.27	115.21L
1168	513940.15	6			

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z686060000	2017	A6	162



**MONUMENT NOTES:**

1. 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.
2. Whether listed or not, all monuments, property markers, or accessories that will be disturbed or buried shall be referenced prior to being disturbed, and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 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.



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 (907) 465-1763

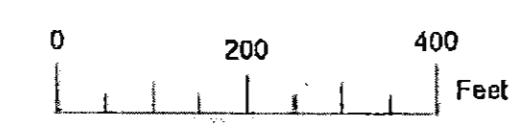
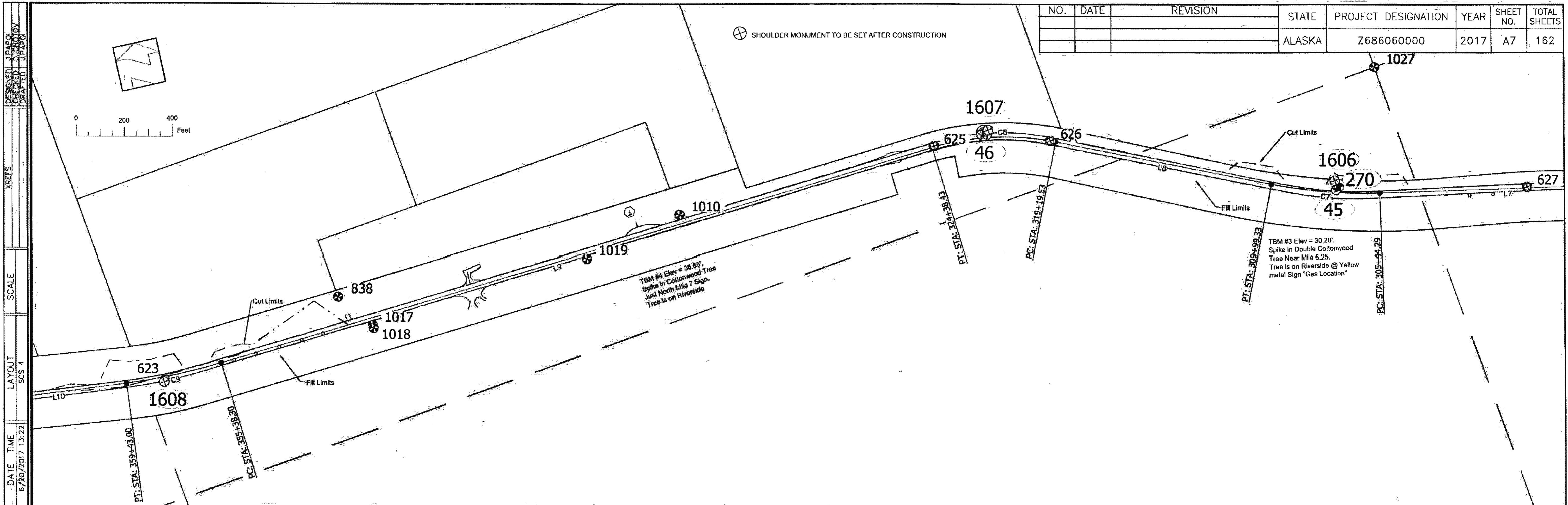
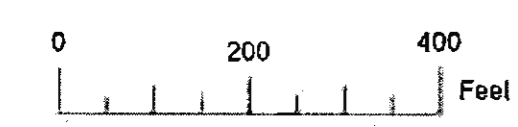
**HAINES HIGHWAY RECONSTRUCTION  
 MILEPOST 3.9 TO 12.2  
 STATE PROJECT # SFHWY00126  
 SURVEY CONTROL**

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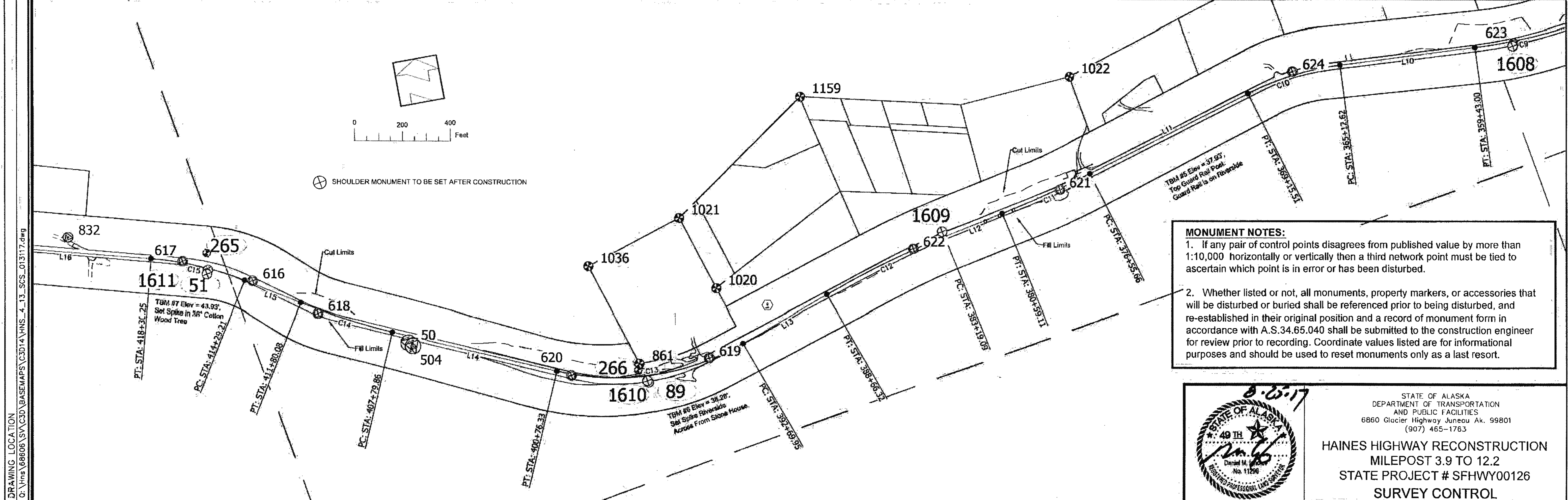
TW 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z686060000	2017	A7	162

⊕ SHOULDER MONUMENT TO BE SET AFTER CONSTRUCTION

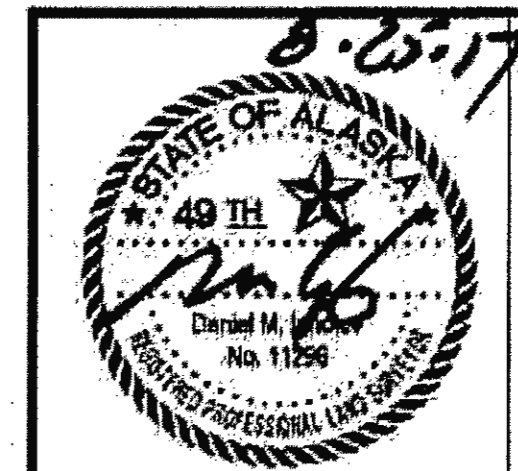


⊕ SHOULDER MONUMENT TO BE SET AFTER CONSTRUCTION



**MONUMENT NOTES:**

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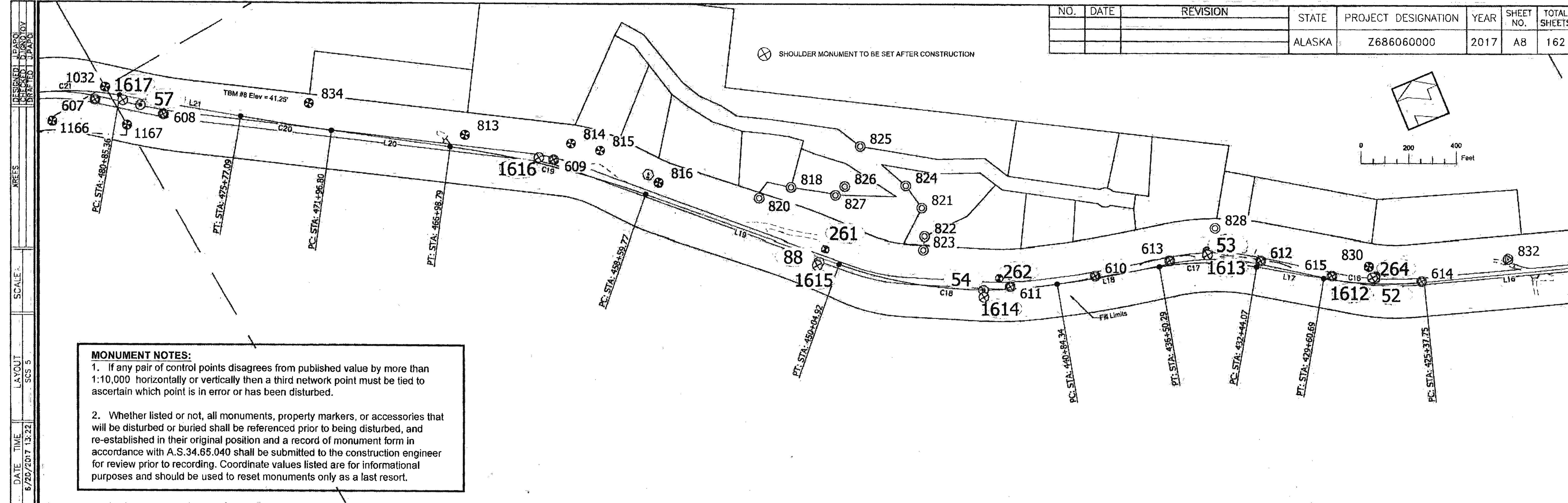
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
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(907) 465-1763

**HAINES HIGHWAY RECONSTRUCTION  
MILEPOST 3.9 TO 12.2  
STATE PROJECT # SFHWY00126  
SURVEY CONTROL**

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 DRAFTED: J.P.A.P.O.

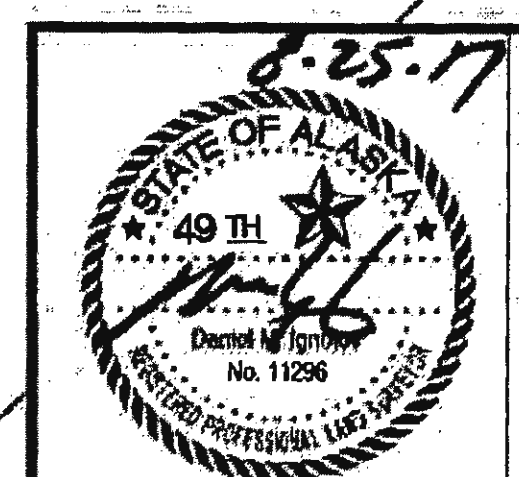
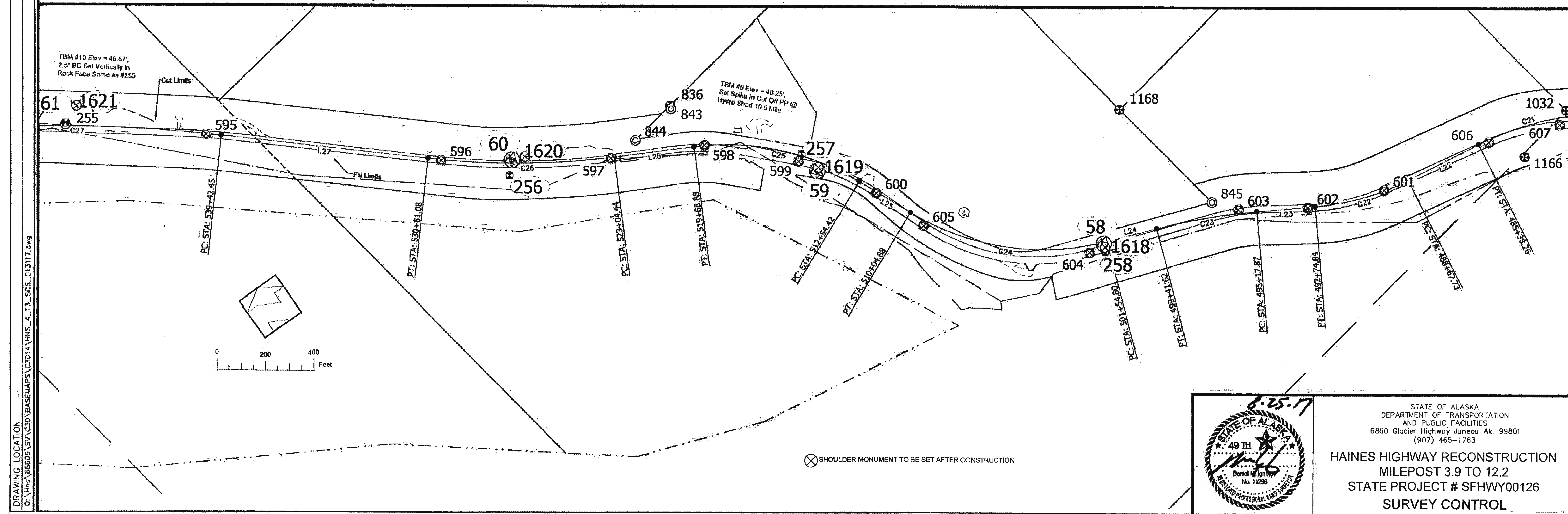
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z686060000	2017	A8	162



**MONUMENT NOTES:**

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**HAINES HIGHWAY RECONSTRUCTION**  
 MILEPOST 3.9 TO 12.2  
 STATE PROJECT # SFHWY00126  
 SURVEY CONTROL

DESIGNED: J. PAPO  
 CHECKED: D. KOSTOV  
 BRACKET: J. PAPO  
 AREAS:  
 SCALE: SCS 3  
 LAYOUT: SCS 3  
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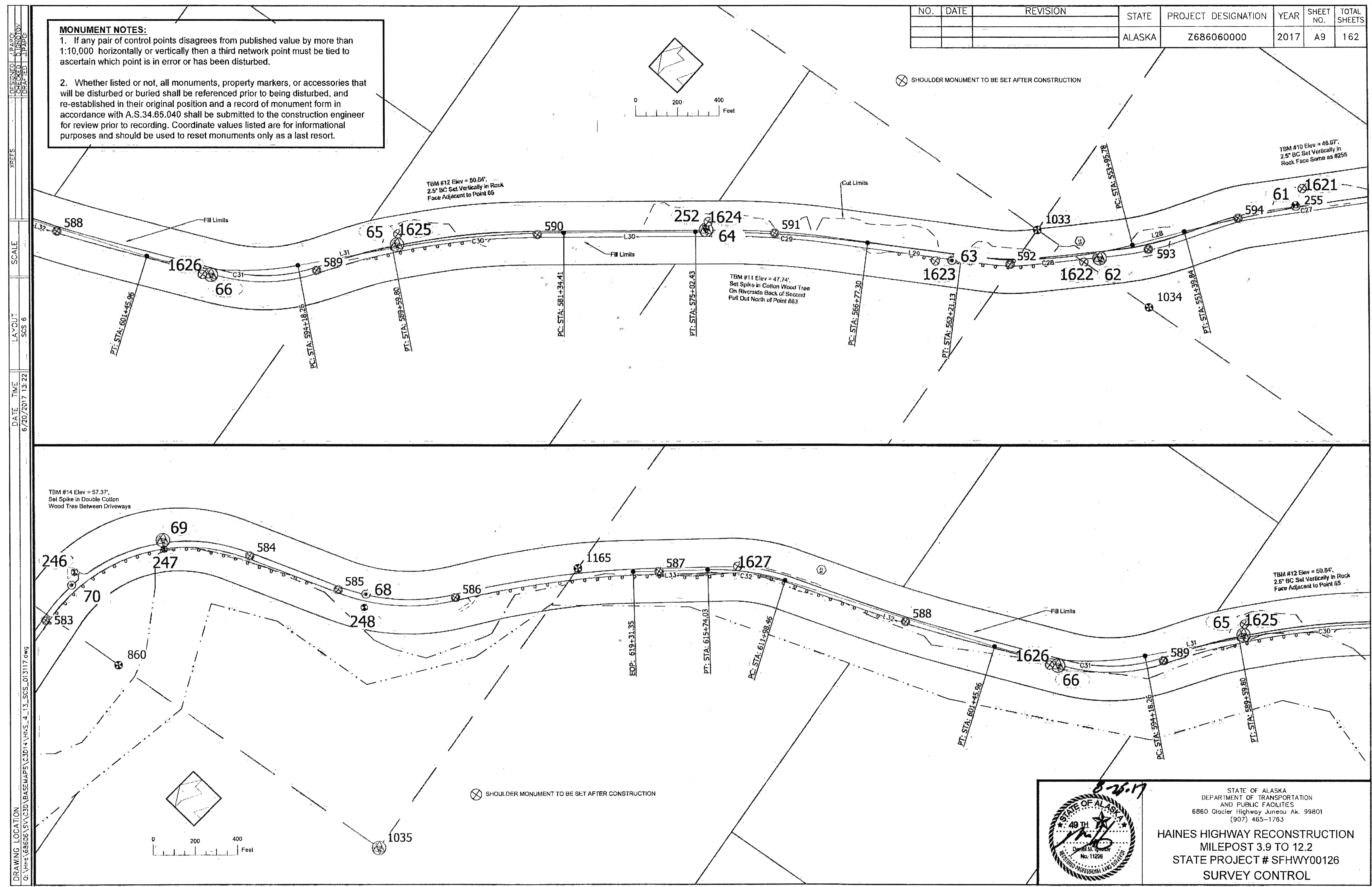
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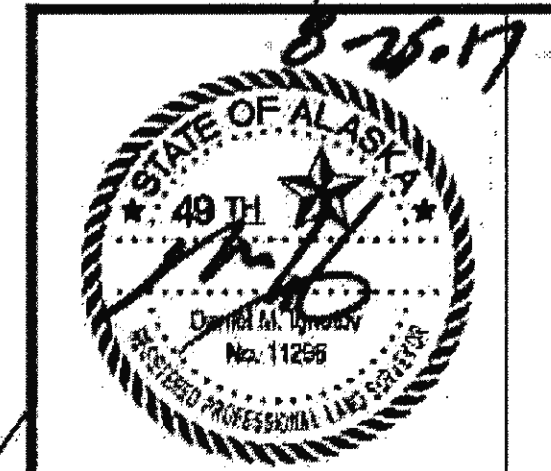
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z686060000	2017	A9	162

**MONUMENT NOTES:**

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**HAINES HIGHWAY RECONSTRUCTION  
 MILEPOST 3.9 TO 12.2  
 STATE PROJECT # SFHWY00126  
 SURVEY CONTROL**

7/10 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	Z686060000	2017	A10	162

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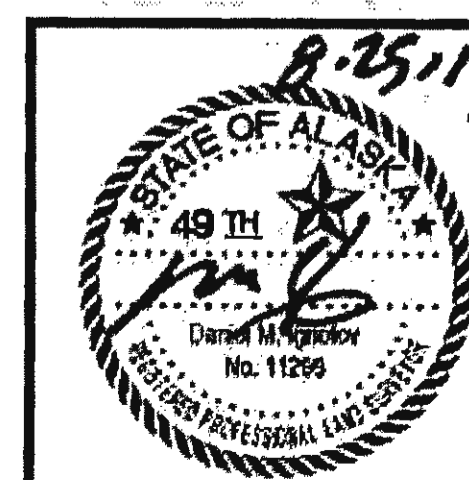
### HAINES HIGHWAY 3.9 to 12.2 MILE DESIGN ALIGNMENT

SEGMENT	STATION	NORTHING	EASTING	STATION	RADIUS	LENGTH	DELTA
L1	182+00.00	501312.18	698936.70	185+73.30			
C1	185+73.30	501153.95	698598.59	205+66.00	1065.00	1992.70	107°12'17"
L2	205+66.00	501972.66	697092.22	214+76.28			
C2	214+76.28	502874.37	696967.52	223+26.88	1065.00	850.60	45°45'41"
L3	223+26.88	503586.07	696544.03	234+87.30			
C3	234+87.30	504274.11	695609.60	243+12.45	3977.00	825.16	11°53'16"
L4	243+12.45	504691.18	694899.33	263+55.76			
C4	263+55.76	505537.79	693039.66	270+82.71	4000.00	726.95	10°24'46"
L5	270+82.71	505777.38	692354.39	277+30.25			
C5	277+30.25	505934.74	691726.25	283+98.75	8000.00	668.50	4°47'16"
L6	283+98.75	506124.08	691085.33	291+16.28			
C6	291+16.28	506355.94	690406.30	294+71.51	25000.00	355.23	0°48'51"
L7	294+71.51	506468.33	690069.31	305+44.29			
C7	305+44.29	506800.51	689049.26	309+99.33	2000.00	455.04	13°02'09"
L8	309+99.33	506989.21	688636.27	319+19.53			
C8	319+19.53	507484.17	687848.12	324+38.43	1066.00	518.90	27°53'25"
L9	324+38.43	507615.50	687357.11	355+38.30			
C9	355+38.30	507787.66	684262.03	359+43.00	2500.00	404.69	9°16'30"
L10	359+43.00	507842.67	683861.54	365+12.62			
C10	365+12.62	507985.56	683305.33	369+15.51	1200.00	402.89	19°14'12"
L11	369+15.51	507985.43	682904.82	376+55.66			
C11	376+55.66	507898.07	682169.84	380+59.11	5000.00	403.44	4°37'23"
L12	380+59.11	507866.67	681767.73	383+19.09			
C12	383+19.09	507856.89	681507.93	388+66.32	4000.00	547.23	7°50'19"
L13	388+66.32	507799.03	680964.20	392+69.95			
C13	392+69.95	507728.99	680566.69	400+76.33	1067.00	806.38	43°18'04"
L14	400+76.33	507888.07	679795.61	407+79.86			
C14	407+79.86	508274.41	679207.64	411+80.08	2810.00	400.21	8°09'37"
L15	411+80.08	508517.21	678889.92	414+29.21			
C15	414+29.21	508682.19	678703.24	418+30.25	1355.00	401.04	16°57'29"
L16	418+30.25	508899.75	678368.08	425+37.75			
C16	425+37.75	509193.26	677724.33	429+60.69	1600.00	422.94	15°08'43"
L17	429+60.69	509417.25	677367.03	432+44.07			

### HAINES HIGHWAY 3.9 to 12.2 MILE DESIGN ALIGNMENT

SEGMENT	STATION	NORTHING	EASTING	STATION	RADIUS	LENGTH	DELTA
C17	432+44.07	509598.09	677148.65	436+50.29	1200.00	406.22	19°23'44"
L18	436+50.29	509799.97	676798.59	440+84.34			
C18	440+84.34	509950.27	676391.39	450+04.92	1800.00	920.58	29°18'11"
L19	450+04.92	510471.41	675644.68	458+59.77			
C19	458+59.77	511122.05	675090.21	486+98.79	4000.00	839.01	12°01'05"
L20	466+98.79	511699.10	674483.26	471+96.80			
C20	471+96.80	512002.58	674088.40	475+77.09	10000.00	380.29	2°10'44"
L21	475+77.09	512240.00	673791.35	480+85.36			
C21	480+85.36	512564.82	673400.42	485+38.26	1200.00	452.90	21°37'27"
L22	485+38.26	512782.48	673006.32	488+67.73			
C22	488+67.73	512884.84	672693.15	492+74.84	1065.00	407.11	21°54'08"
L23	492+74.84	513081.32	672339.42	495+17.87			
C23	495+17.87	513237.55	672153.26	499+41.62	2500.00	423.75	9°42'42"
L24	499+41.62	513481.19	671807.17	501+54.80			
C24	501+54.80	513588.71	671623.09	510+04.88	1065.00	850.08	45°44'00"
L25	510+04.88	514251.10	671126.78	512+54.42			
C25	512+54.42	514493.24	671066.51	519+68.88	1065.00	714.46	38°26'14"
L26	519+68.88	515079.96	670682.65	523+04.44			
C26	523+04.44	515284.64	670416.73	530+81.08	3270.00	776.64	13°36'29"
L27	530+81.08	515826.65	669863.06	539+42.45			
C27	539+42.45	516497.89	669323.25	551+39.84	6500.00	1197.39	10°33'17"
L28	551+39.84	517356.80	668491.40	553+95.78			
C28	553+95.78	517523.49	668297.19	562+21.13	2168.00	825.36	21°48'45"
L29	562+21.13	518165.94	667787.00	566+77.30			
C29	566+77.30	518570.38	667576.03	575+02.43	6187.00	825.13	7°38'29"
L30	575+02.43	519274.39	667146.83	581+34.41			
C30	581+34.41	519790.88	666782.63	589+59.80	4645.00	825.39	10°10'52"
L31	589+59.80	520419.74	666249.70	594+18.26			
C31	594+18.26	520741.81	665923.43	601+45.96	1500.00	727.70	27°47'46"
L32	601+45.96	521356.39	665547.22	611+98.46			
C32	611+98.46	522359.77	665229.43	615+74.03	1140.00	375.57	18°52'33"
L33	615+74.03	522692.86	665059.62	619+31.35			

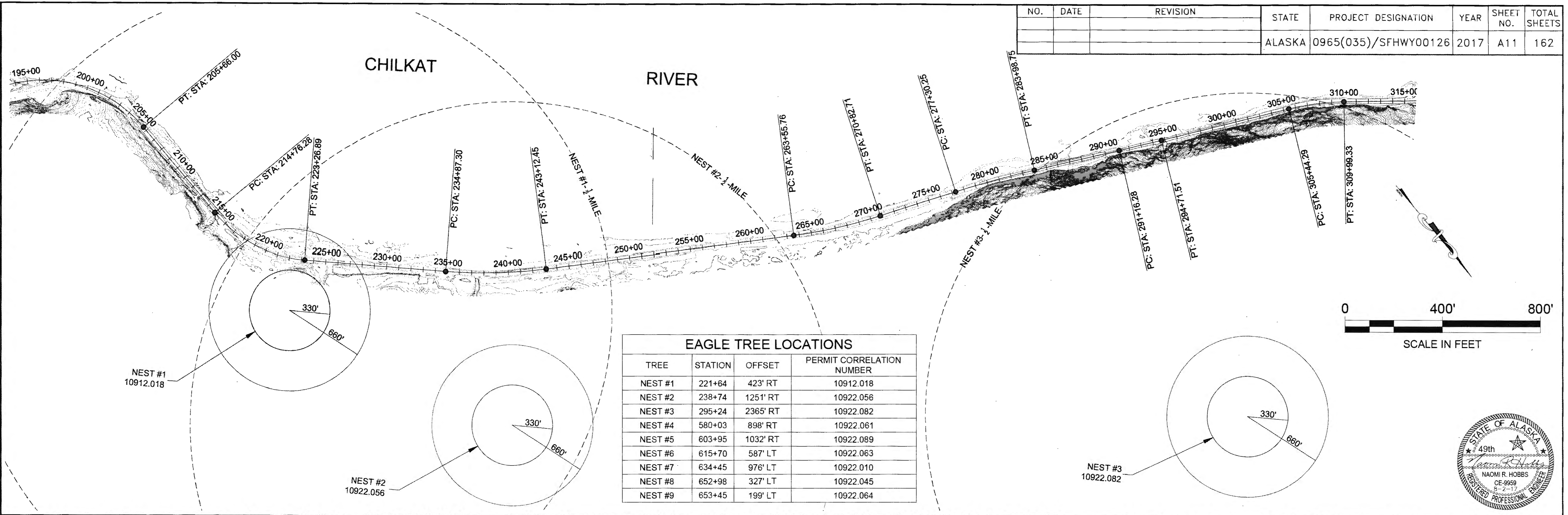
Coordinates hold over distances and bearings.



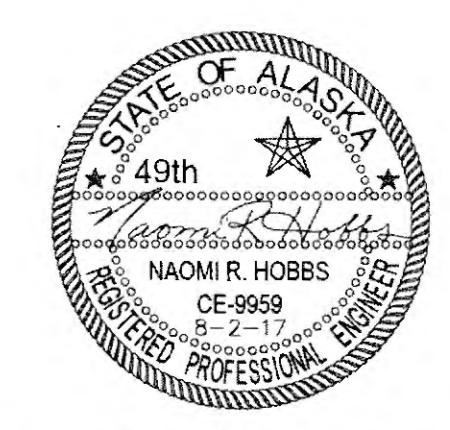
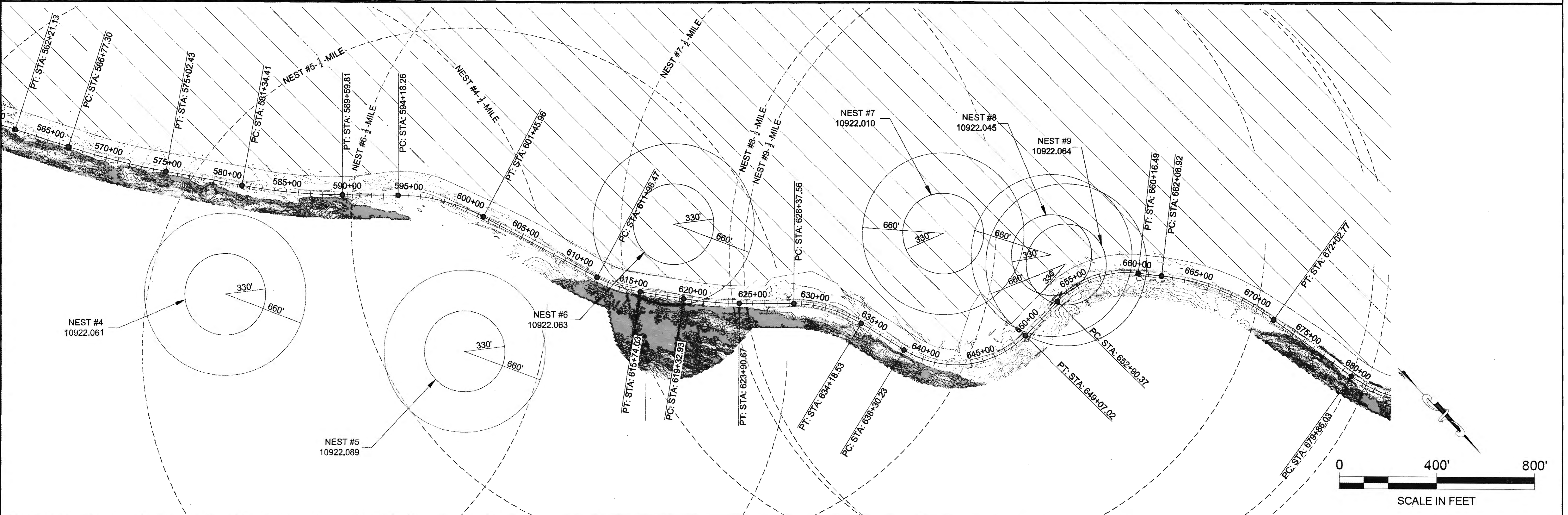
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 6860 Glacier Highway Juneau Ak. 99801  
 (907) 465-1783  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
**STATE PROJECT # SFHWY00126**  
**SURVEY CONTROL**

FIRM: DOWL  
 FILE: q:\24\161850-01\65CAD\mp 3-12 pse\A-C SHEETS\A11.dwg  
 ADDRESS: 5366 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH: # AEC1848  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/13/2017 10:36  
 LAYOUT: A11

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	A11	162

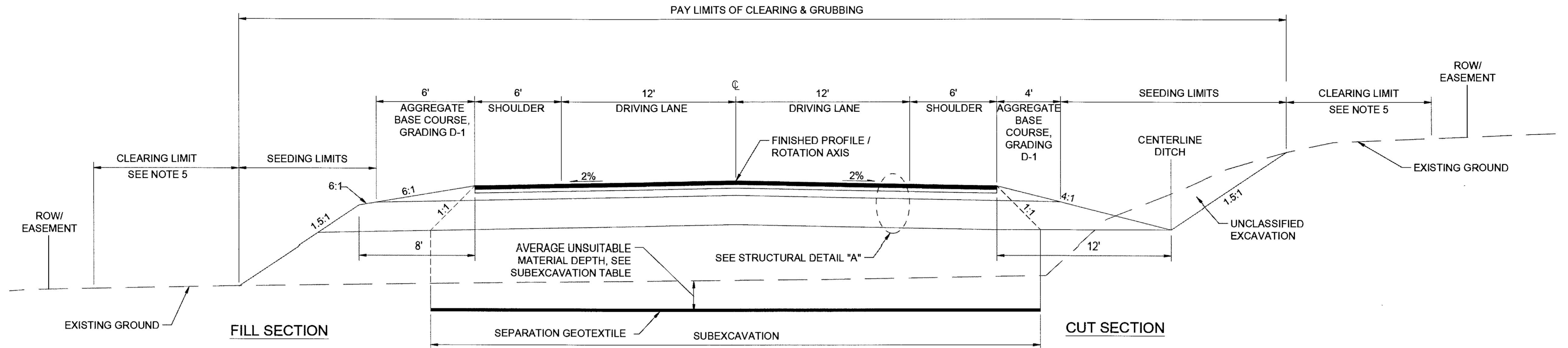


TREE	STATION	OFFSET	PERMIT CORRELATION NUMBER
NEST #1	221+64	423' RT	10912.018
NEST #2	238+74	1251' RT	10922.056
NEST #3	295+24	2365' RT	10922.082
NEST #4	580+03	898' RT	10922.061
NEST #5	603+95	1032' RT	10922.089
NEST #6	615+70	587' LT	10922.063
NEST #7	634+45	976' LT	10922.010
NEST #8	652+98	327' LT	10922.045
NEST #9	653+45	199' LT	10922.064



Rev 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	B1	162

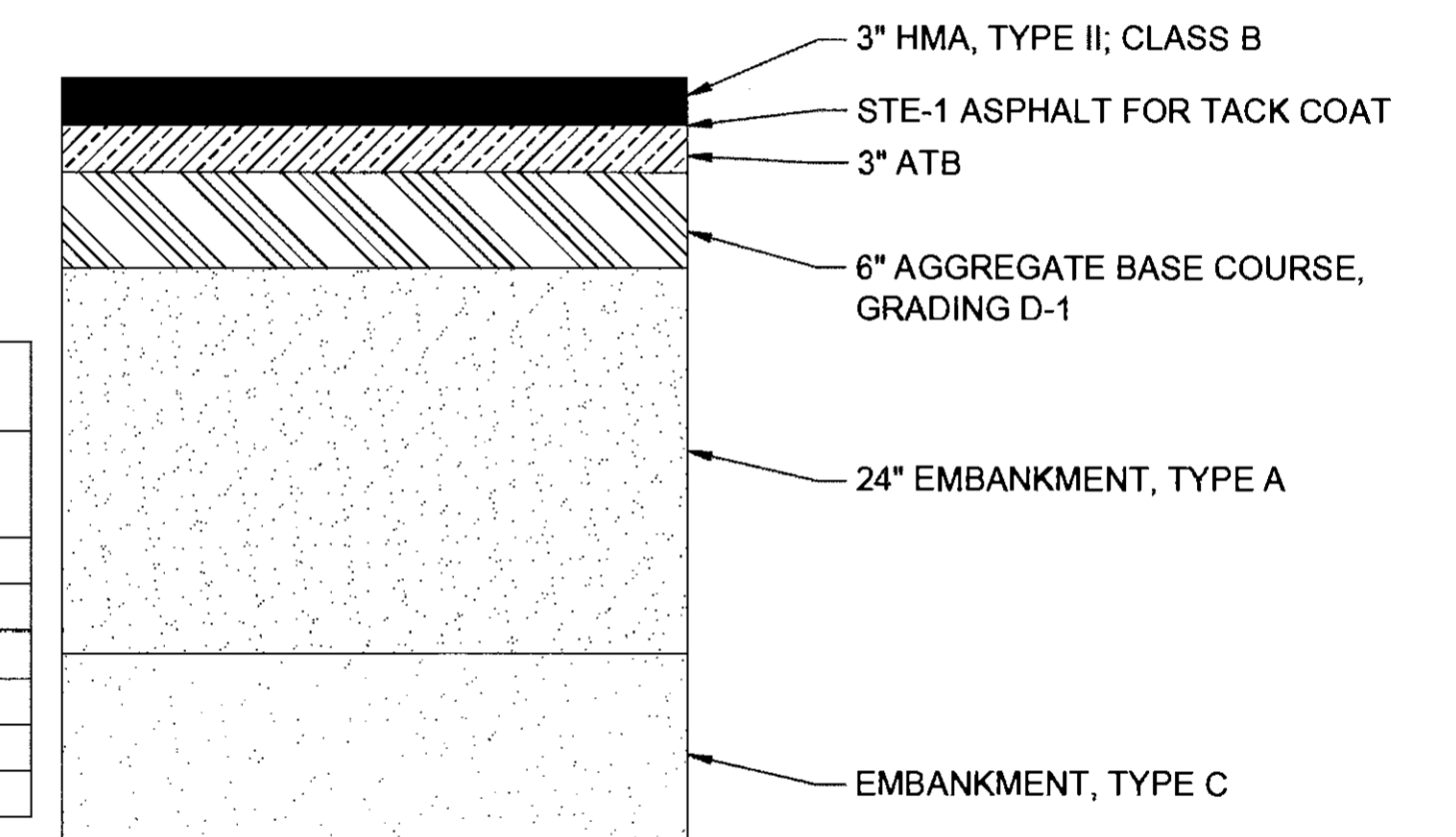


TYPICAL SECTION FOR ROADWAY ON NEW ALIGNMENT

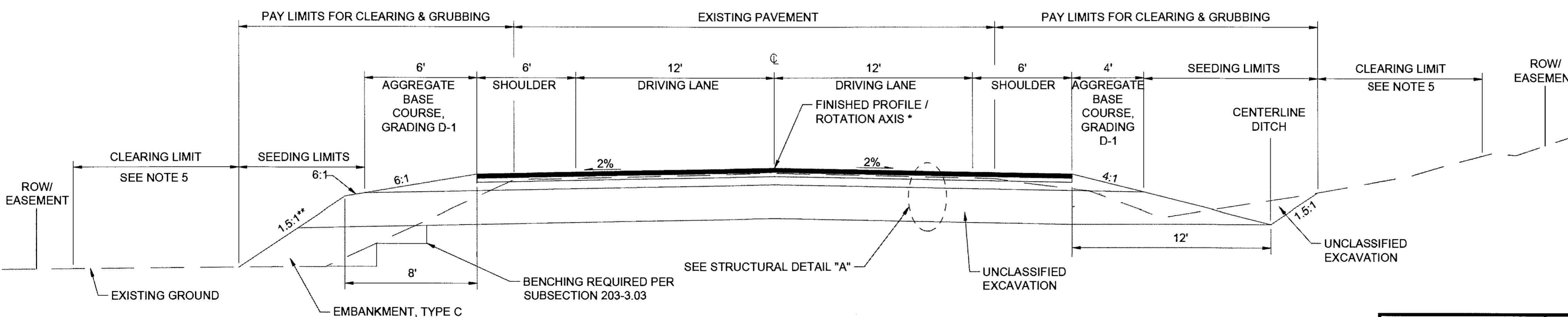
TYPICAL SECTION NOTES

1. THE EXISTING PAVEMENT VARIES IN THICKNESS (UP TO 12" IN PAST OVERLAY AREAS). SEE THE TEST HOLE DATA IN THE GEOTECHNICAL REPORT FOR KNOWN LOCATIONS OF PAVEMENT THICKNESS.
2. SEEDING, SCHEDULE A PER SECTION 618 SHALL BE APPLIED TO ALL CONSTRUCTION SLOPES, EXCEPT; BEDROCK SLOPES, GRAVEL SHOULDER, AND RIPRAP SLOPES, BELOW OHW.
3. FOR SUPERELEVATION TRANSITION REFER TO THE DETAILS ON SHEET J4.
4. CLEARING LIMITS QUANTITY IS BASED ON AN ASSUMED LINE LOCATED 10' BEYOND THE SLOPE CATCH POINT OR TO ROW, WHICHEVER IS CLOSEST. EXCLUDING AREAS OF RIVER BED, WETLANDS AND STREAM CHANNELS. FROM STATION 204+00 TO 211+00 CLEARING WILL NOT EXTEND PAST THE SLOPE CATCH POINT.
5. FULL WIDTH SUBEXCAVATION ON THE TYPICAL SECTION REPRESENTS THE MAXIMUM WIDTH. NOT ALL INSTANCES OF SUBEXCAVATION WILL NEED THE FULL WIDTH.

SUBEXCAVATION OF UNSUITABLE MATERIAL			
FROM STA	TO STA	AVERAGE DEPTH (FT)	REMARKS
186+50	195+00	2	WIDTH VARIES
217+00	222+00	2	WIDTH VARIES
236+00	242+00	2	WIDTH VARIES
471+00	487+00	3.5	WIDTH VARIES
497+00	510+00	1.5	WIDTH VARIES
513+00	516+00	1.5	WIDTH VARIES



STRUCTURAL DETAIL "A"



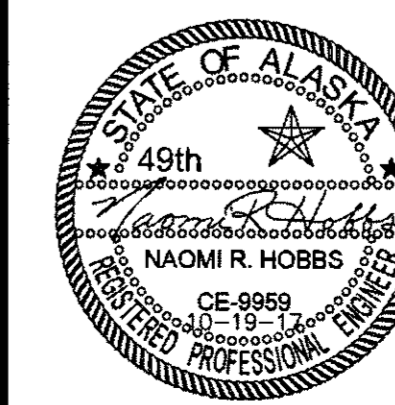
FILL SECTION

CUT SECTION

TYPICAL SECTION FOR ROADWAY ON EXISTING ALIGNMENT

\* FROM STATION 182+00.00 TO STATION 184+03.97 CROWN LINE IS SHIFTED FROM CENTERLINE. SEE SHEET F1.  
 \*\* FROM STATION 207+75 TO 208+25 FILL SLOPE IS FLATTENED FROM 1.5:1 TO 3:1.

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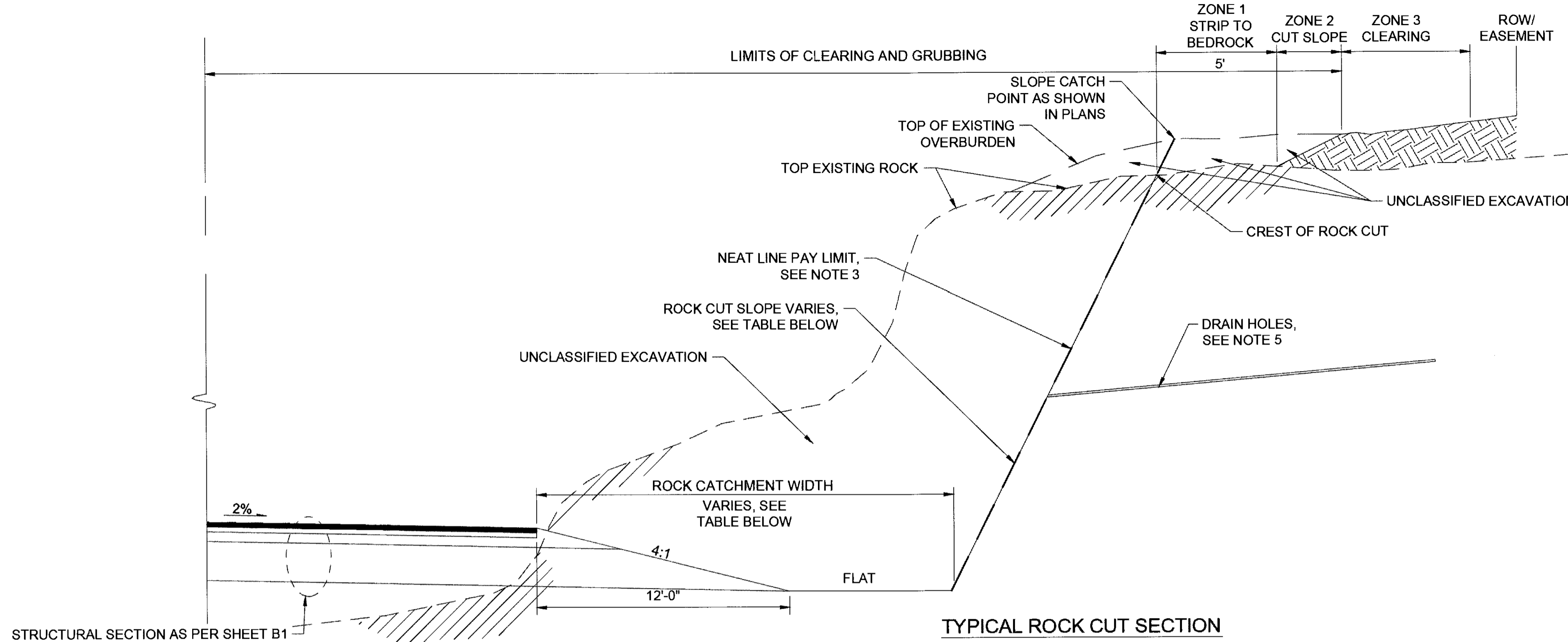


STATE OF ALASKA  
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**HAINES HIGHWAY RECONSTRUCTION  
 MILEPOST 3.9 TO 12.2**  
 TYPICAL SECTIONS

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 LAYOUT: B1  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	B2	162

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 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER



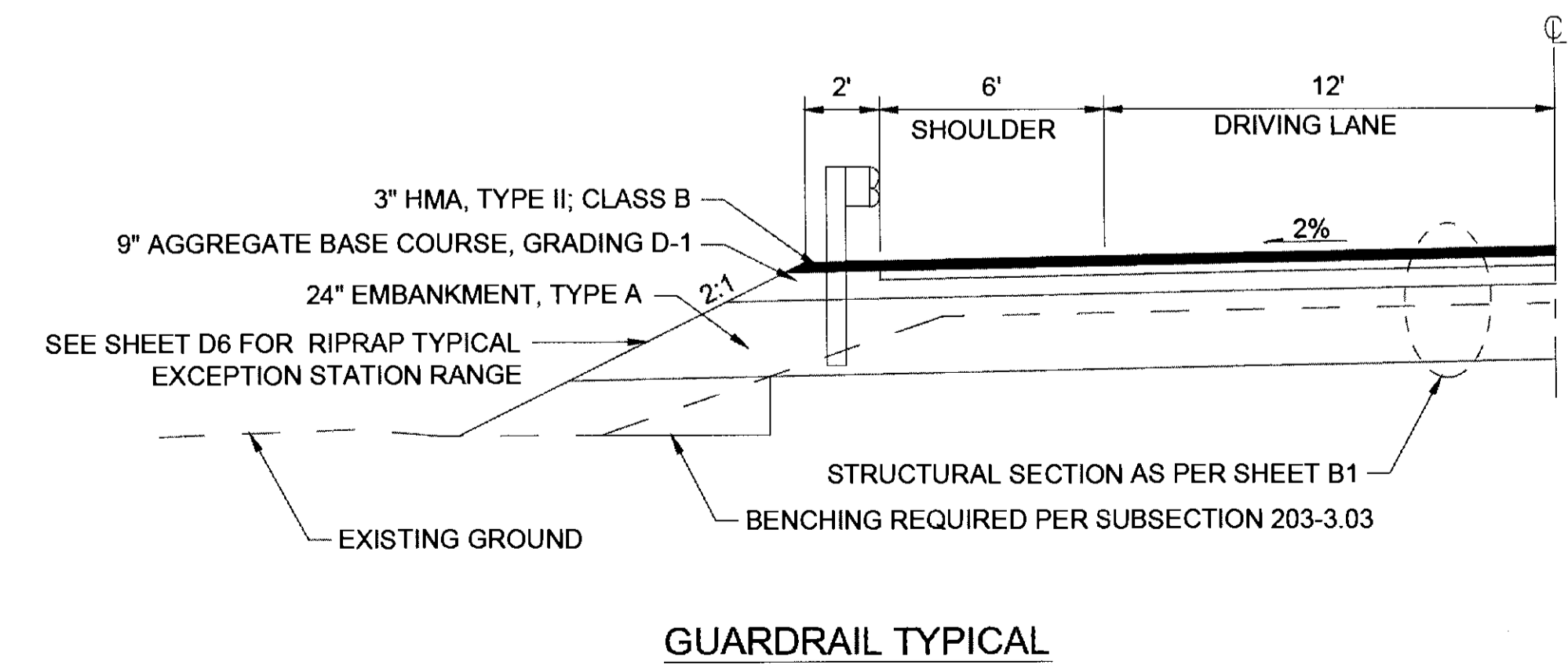
ROCK CUT SETBACK PARAMETERS	
ZONE	DESCRIPTION
1	REMOVE ALL OVERBURDEN SOILS 5 HORIZONTAL FEET FROM CREST OF ROCK CUT TO PREVENT VEGETATION GROWTH.
2	IF A 2H:1V SLOPE IS NOT CONSTRUCTIBLE WITHIN THE PERMITTED LIMITS CUT OVERBURDEN AT 1.5H:1V. IF 1.5H:1V IS NOT CONSTRUCTIBLE WITHIN THE PERMITTED LIMITS CUT OVERBURDEN AT A 1H:1V. STABILIZE SOIL WITH ROCK MAT PER SECTION 619.
3	CLEAR ALL TREES 10 HORIZONTAL FEET FROM THE SLOPE CATCH POINT OF ZONE 2 OR TO THE ROW OR EASEMENT LINE, WHICHEVER IS CLOSER. LEAVE STUMPS AND ORGANIC MAT IN PLACE FOR ROCK CUT 2 & 3 REDUCE CLEARING WIDTH TO KEEP ZONE 2 CUT SLOPE FLATTER THAN 1H:1V.

**NOTES:**

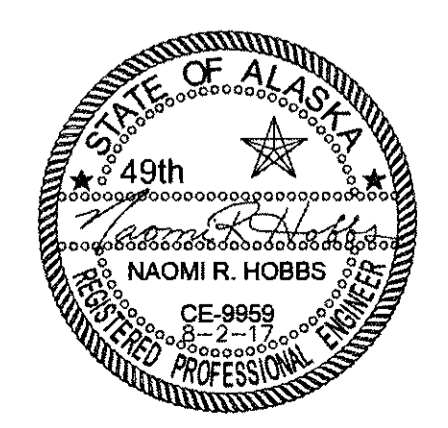
- AT THE CONTRACTOR'S OPTION, ADDITIONAL ROCK OR SOIL MAY BE OBTAINED FROM CUTS WITHIN THE EXISTING HAINES HIGHWAY RIGHT-OF-WAY AS APPROVED BY THE ENGINEER. SEE SUMMARY OF AVAILABLE ADDITIONAL MATERIAL IN THE TABLE BELOW.
- UNCLASSIFIED EXCAVATION MEASURED FOR PAYMENT WILL BE LIMITED TO MATERIAL WITHIN THE PLANNED DESIGN CUT. EXCAVATED MATERIAL OUTSIDE THE PLANNED DESIGN CUT WILL BE CONSIDERED A MATERIAL SOURCE.
- THE EXTENT OF THE NEAT LINE PAY LIMIT FOR UNCLASSIFIED EXCAVATION THROUGH ROCK SHALL BE ALONG A STRAIGHT LINE BEGINNING AT THE OUTER LIMIT OF THE ROCK CATCHMENT WIDTH AND PROJECTED TO THE CREST OF THE EXISTING ROCK AT THE DESIGN CUT SLOPE WHICH INCLUDES ALLOWANCE FOR OFFSET BENCHES AS DESCRIBED IN NOTE 4.
- MAXIMUM ALLOWABLE CONTROLLED BLAST FACE HEIGHT IS 30 FEET PER LIFT. LIMIT WIDTH OF OFFSET BENCHES TO 2 FEET FOR 0.25:1 AND 4 FEET FOR 0.5:1 CUT SLOPES.
- DRILL 3 INCH MIN DIAMETER HOLES AT 5 TO 10 DEGREES ABOVE HORIZONTAL TO A DEPTH OF 20 FEET. DRILL 5 TO 10 FEET ABOVE THE TOE OF DITCH AND ALL INTERMEDIATE BENCHES. SPACE 20 FEET BETWEEN HOLES AND ADJUST LOCATIONS TO INTERCEPT VISIBLE WATER SEEP AND MOIST SPOTS. THERE SHALL BE ONE ROW OF DRAIN HOLES PER 30 FOOT LIFT.

ROCK CUT SUMMARY (OPTIONAL MATERIAL SOURCE)						
ROCK CUT	OFFSET	FROM STA	TO STA	CATCHMENT WIDTH	DESIGN CUT SLOPE	REMARKS
1	RT	279+75	282+75	42'	0.25:1	REMOVE UP TO 6,242 CY OF MATERIAL REMOVED BETWEEN ROW AND CUT LIMIT (MATERIAL SALE AREA)
2&3	RT	304+50	311+50	42'	0.25:1	
4&5	RT	353+50	360+00	40'	0.5:1	
6	RT	377+25	381+00	35'	0.25:1	APPROXIMATELY 13,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
7	RT	397+50	404+00	25'	0.5:1	APPROXIMATELY 9,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
8	RT	410+00	411+75	20'	0.5:1	APPROXIMATELY 13,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
9	RT	523+50	525+25	20'	0.25:1	APPROXIMATELY 9,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
10	RT	542+50	546+75	32'	0.5:1	APPROXIMATELY 16,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
11	RT	552+00	554+00	25'	0.5:1	APPROXIMATELY 6,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
12&13	RT	556+75	570+50	30'	0.5:1	APPROXIMATELY 33,000 CY OF ADDITIONAL MATERIAL AVAILABLE BEYOND PLANNED DESIGN CUTS.
14&15	RT	571+50	577+00	25'	0.5:1	
16	RT	587+00	589+50	35'	0.5:1	

NOTES:  
 1) STATION RANGES ABOVE ARE FOR FULL CATCHMENT WIDTH AND DO NOT INCLUDE TRANSITIONING LENGTH IN AND OUT OF CUTS.  
 2) ALLOWABLE OFFSET BENCHES (SEE NOTE 4 THIS SHEET) ARE REFLECTED IN PLANS (CUT LIMITS) AND IN SUPPLEMENTAL CROSS SECTIONS.



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**HAINES HIGHWAY RECONSTRUCTION  
 MILEPOST 3.9 TO 12.2**  
**TYPICAL SECTIONS**

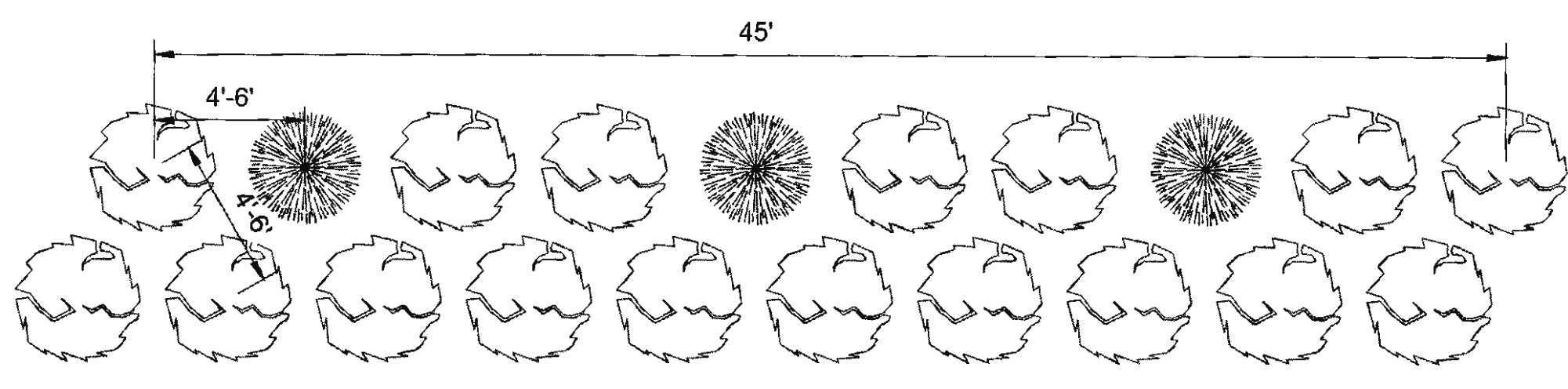
Plan 6-25-20

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 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	B3	162

PLANTING SCHEDULE				
SYMBOL	SCIENTIFIC NAME	COMMON NAME	SPACING	% COVERAGE
	ROSA NUTKANA	NOOTKA ROSE	4' TO 6', O.C.	15%
	ALNUS RUBRA	RED ALDER	4' TO 6', O.C.	85%

OHW ELEVATION		
FROM STATION	TO STATION	APPROX OHW ELEV.
BOP	195+31	22.0
195+31	210+94	23.0
210+94	226+56	24.0
226+56	242+19	25.0
242+19	257+81	26.0
257+81	273+44	27.0
273+44	289+06	28.0
289+06	304+69	29.0
304+69	320+31	30.0
320+31	335+94	31.0
335+94	351+56	32.0
351+56	367+19	33.0
367+19	382+81	34.0
382+81	398+44	35.0
398+44	414+06	36.0
414+06	429+69	37.0
429+69	445+31	38.0
445+31	460+94	39.0
460+94	476+56	40.0
476+56	492+19	41.0
492+19	507+81	42.0
507+81	523+44	43.0
523+44	539+06	44.0
539+06	554+69	45.0
554+69	570+31	46.0
570+31	585+94	47.0
585+94	601+56	48.0
601+56	EOP	49.0



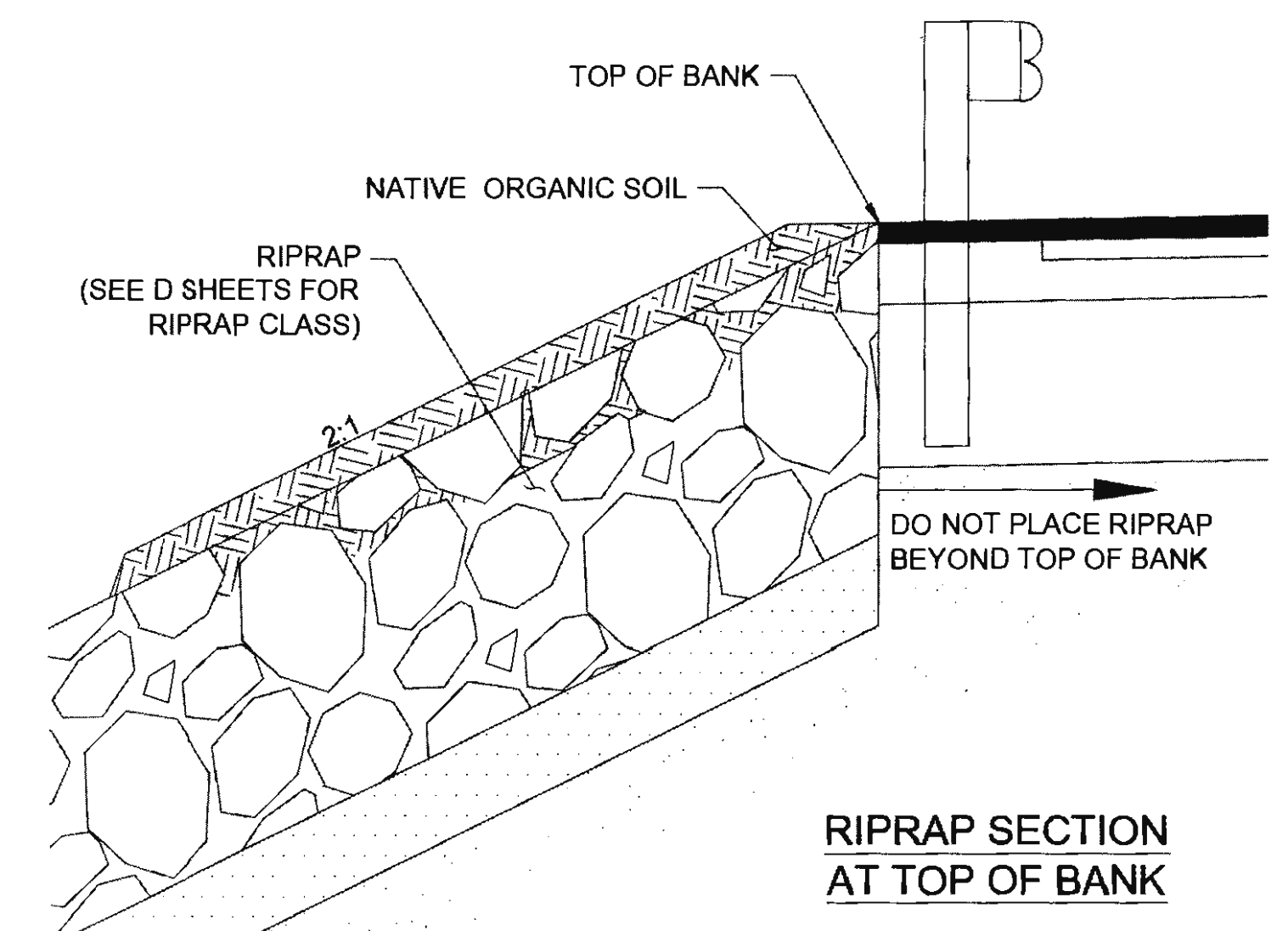
PLANTING TYPICAL LAYOUT

**PLANTING NOTES**

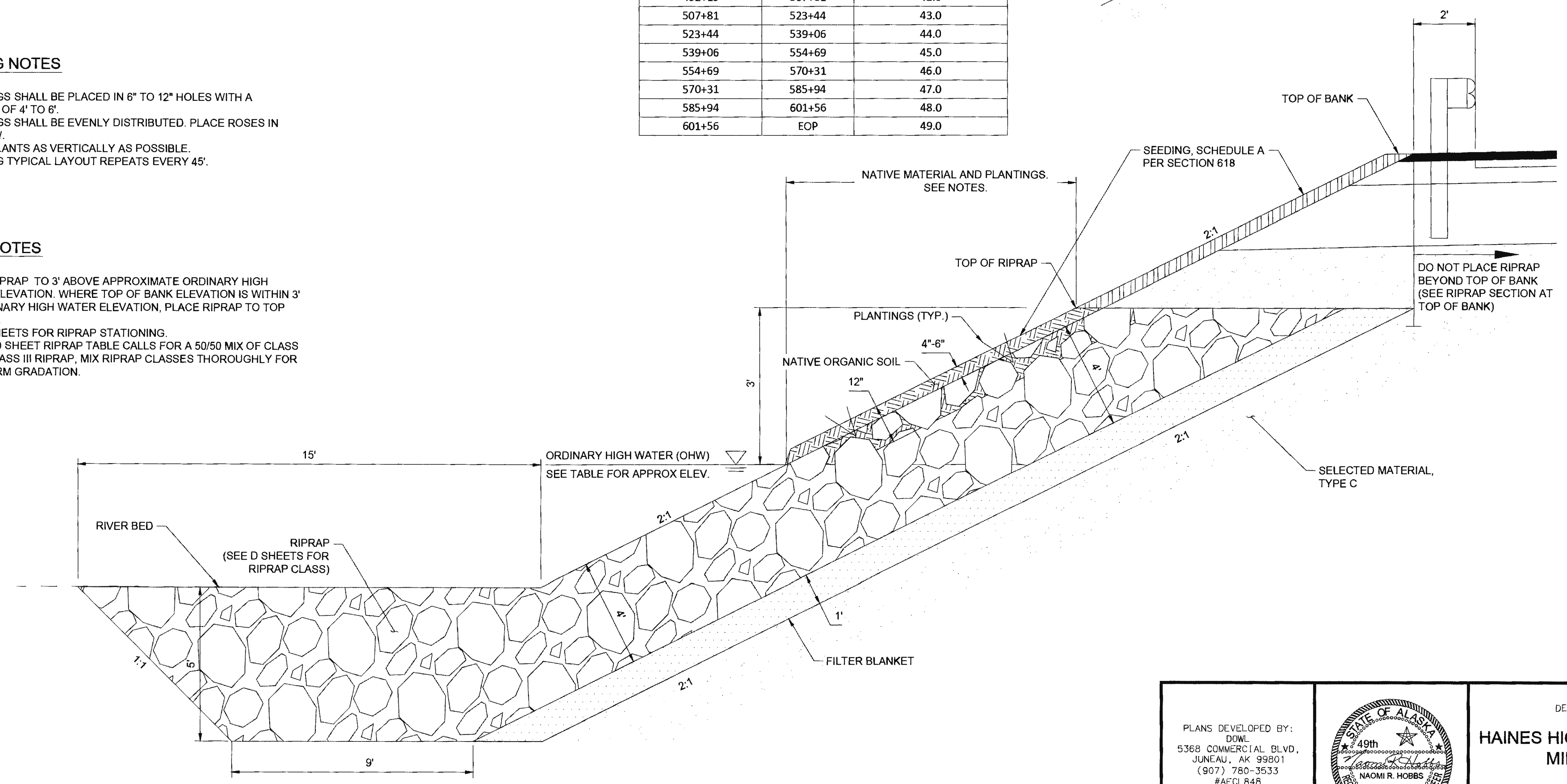
1. PLANTINGS SHALL BE PLACED IN 6" TO 12" HOLES WITH A SPACING OF 4' TO 6'.
2. PLANTINGS SHALL BE EVENLY DISTRIBUTED. PLACE ROSES IN TOP ROW.
3. PLACE PLANTS AS VERTICALLY AS POSSIBLE.
4. PLANTING TYPICAL LAYOUT REPEATS EVERY 45'.

**RIPRAP NOTES**

1. PLACE RIPRAP TO 3' ABOVE APPROXIMATE ORDINARY HIGH WATER ELEVATION. WHERE TOP OF BANK ELEVATION IS WITHIN 3' OF ORDINARY HIGH WATER ELEVATION, PLACE RIPRAP TO TOP OF BANK.
2. SEE D SHEETS FOR RIPRAP STATIONING.
3. WHERE D SHEET RIPRAP TABLE CALLS FOR A 50/50 MIX OF CLASS II AND CLASS III RIPRAP, MIX RIPRAP CLASSES THOROUGHLY FOR A UNIFORM GRADATION.

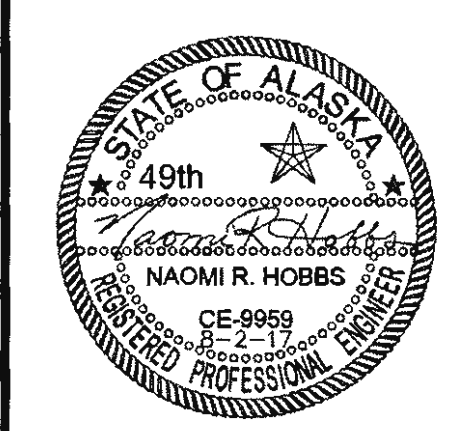


RIPRAP SECTION AT TOP OF BANK



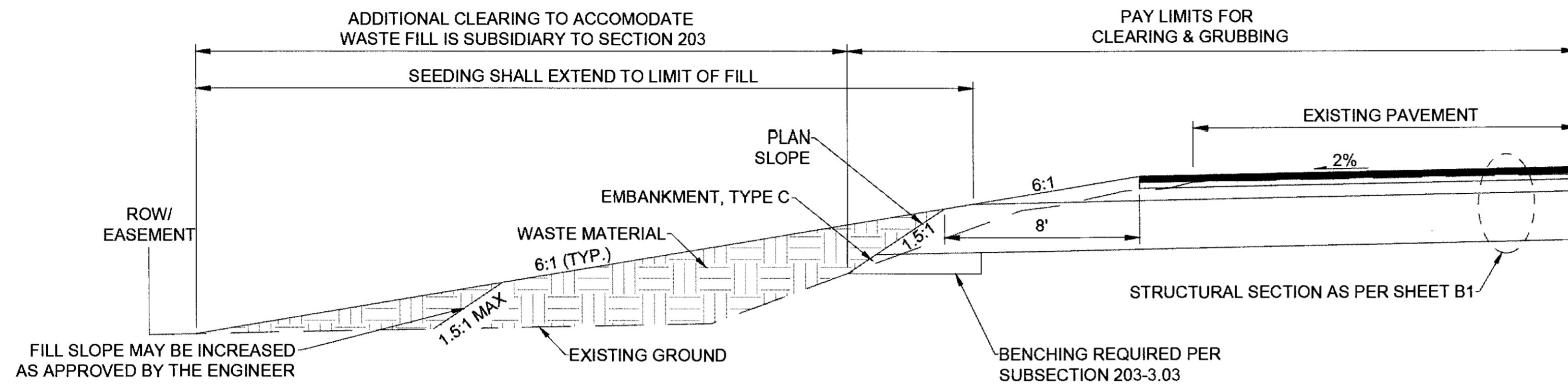
RIPRAP TYPICAL SECTION

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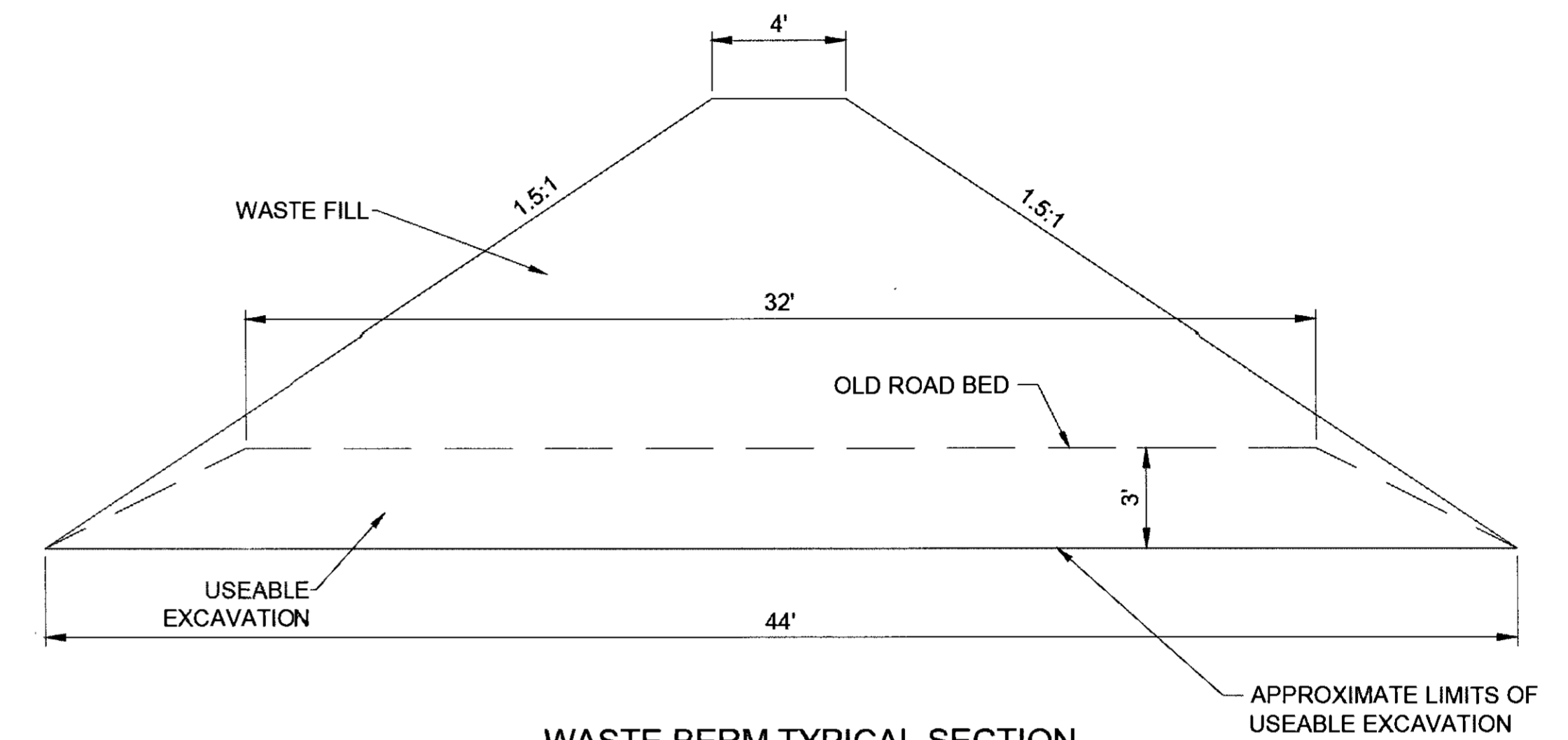


STATE OF ALASKA  
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**HAINES HIGHWAY RECONSTRUCTION**  
 MILEPOST 3.9 TO 12.2  
**TYPICAL SECTIONS**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	B4	162



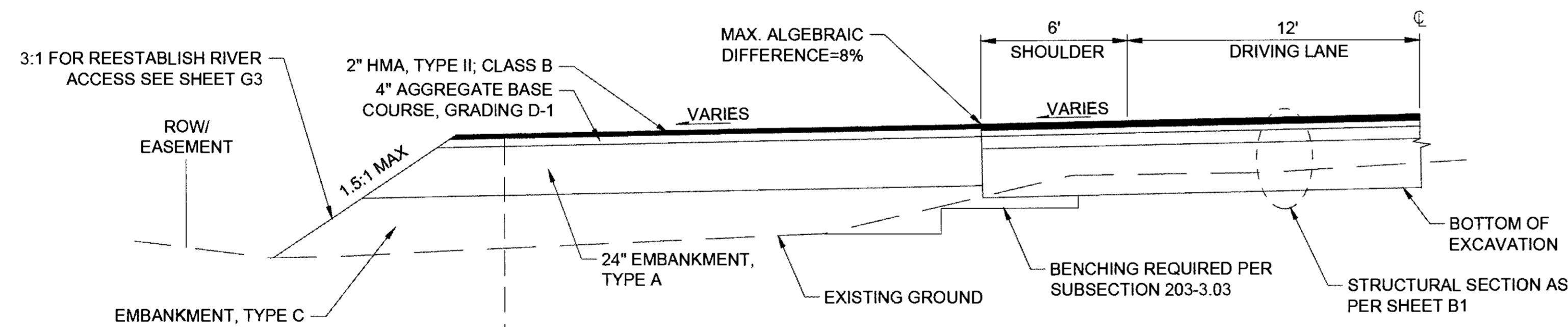
**DOWNHILL WASTE FILL TYPICAL SECTION**



**WASTE BERM TYPICAL SECTION**

**NOTES:**

1. SEE WASTE FILL LOCATIONS TABLE FOR OPTIONAL WASTE DISPOSAL AREAS.
2. WOODY DEBRIS NOT USED ON THE PROJECT SHALL BE BURNED AT APPROVED SITES WITHIN THE RIGHT-OF-WAY OR HAULED OFF-SITE AT THE CONTRACTOR'S EXPENSE.
3. LEAVE AN UNDISTURBED BUFFER OF 50' FROM THE TOP BANK OF ANY STREAM CHANNELS TO THE TOP OF THE WASTE SLOPE. DO NOT EXCEED 2:1 ON THE SLOPES THAT ABUT THE STREAM BUFFER.

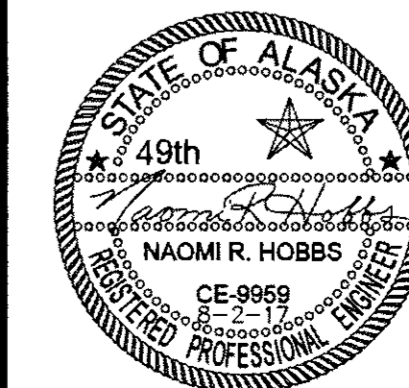


**ROADSIDE TURN OUT TYPICAL SECTION**  
(SEE G-SHEETS FOR LAYOUT DETAILS)

**ROADSIDE TURN OUT GUARDRAIL EXCEPTION**

WASTE FILL LOCATIONS				
FROM STATION	TO STATION	OFFSET	APPROXIMATE VOLUME (CY)	REMARKS
188+00	196+00	RT	9,490	OLD ROAD BED
199+00	204+00	LT	4,920	HNS 1 AND HNS 2
475+00	484+00	LT	5,660	OLD ROAD BED
502+00	508+50	LT	6,610	OLD ROAD BED

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2  
**TYPICAL SECTIONS**

FILE q:\24\161850-01\B5CAD\mp 3-12 pae\A-C SHEETS\B1-B4.dwg DATE 6/28/2017 15:56 LAYOUT B4 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

Jan 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	10-19-2017	REVISED ITEM DESCRIPTION, NEW ITEMS ADDED	ALASKA	0965(035)/SFHWY00126	2017	C1	162
2	10-30-2017	REVISED QUANTITIES, ITEM DESCRIPTION					

FILE: 0:\24\61850-01\65CAD\MP 3-12 PSEA-C SHEETS\C-SHEET.dwg  
 DATE: 10/30/2017 9:42  
 LAYOUT: C1  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
201(1A)	CLEARING	ACRE	13.6 3.3
201(3A)	CLEARING AND GRUBBING	ACRE	47.1 28.0
201(7)	INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL	SQUARE YARD	23,374 19,688
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	136,234 138,165
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	3,205 3,126
202(10)	SINGLE MAIL BOX INSTALLATION	EACH	2 1
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	283,200 285,572
203(9)	OBLITERATION OF ROADWAY	SQUARE YARD	12,304 12,481
203(10)	CONTROLLED BLASTING	LINEAR FOOT	143,383 141,798
203(12)	DRAIN HOLES	LINEAR FOOT	9,760 13,040
203(19A)	EMBANKMENT, TYPE A	CUBIC YARD	209,390 176,178
203(19C)	EMBANKMENT, TYPE C	CUBIC YARD	107,700 160,518
203(300)	PRE-BLAST STRUCTURE SURVEY	EACH	5 3
206(1)	FILTER BLANKET	CUBIC YARD	7,250 12,118
208(1)	STABILIZATION - ROCK BOLT	LINEAR FOOT	3,885 0
208(2)	STABILIZATION - ROCK DOWEL	LINEAR FOOT	1,005 3,005
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	106,210 128,539
306(1)	ATB	TON	37,790 35,091
401(1B)	HMA, TYPE II; CLASS B	TON	37,790 24,480
401(4)	ASPHALT BINDER, GRADE PG 58-34	TON	4,126 3476
401(8B)	HMA PRICE ADJUSTMENT, TYPE II; CLASS B	CONTINGENT SUM	ALL REQUIRED
401(9)	LONGITUDINAL JOINT DENSITY PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401(10)	PAVEMENT SMOOTHNESS PRICE ADJUSTMENT, METHOD 1	CONTINGENT SUM	ALL REQUIRED
401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	78 39
501(1)	CLASS A CONCRETE	LUMP SUM	ALL REQUIRED
602(2A)	STRUCTURAL PLATE PIPE-ARCH 12'-7" SPAN, 7'5" RISE, 0.125" GAGE (1)	LINEAR FOOT	189 184.9
603(9-36)	36-INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	210 (2)
603(9-48)	48-INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	211
603(9-60)	60-INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	296 295.5
603(10A)	87X63-INCH CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	72
603(10B)	95X67-INCH CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	102
603(10C)	103X71-INCH CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	154 152
603(21-12)	12-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	94 90
603(21-18)	18-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	391 341.9
603(21-24)	24-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	2,081 31.3 (2)
603(21-36)	36-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	152
603(21-48)	48-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	222 133.5
606(1)	W-BEAM GUARDRAIL	LINEAR FOOT	21,095 31
606(6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	10,934 16,093
606(13)	PARALLEL GUARDRAIL TERMINAL	EACH	22
610(1)	DITCH LINING	CUBIC YARD	12 11.9
611(1A)	RIPRAP, CLASS I	CUBIC YARD	316 102
611(1B)	RIPRAP, CLASS II	CUBIC YARD	25,090 33,972
611(1C)	RIPRAP, CLASS III	CUBIC YARD	27,510 37,208
611(3)	CULVERT INFILL RIPRAP	CUBIC YARD	42 41
615(1)	STANDARD SIGN	SQUARE FOOT	484
618(1A)	SEEDING, SCHEDULE A	ACRE	39.0 7.8
619(4)	ROCK MAT	SQUARE YARD	16,946 3769
621(5)	TRANSPLANTED COTTONWOOD STOCK	LUMP SUM	ALL REQUIRED
621(6)	PLANTINGS	LUMP SUM	ALL REQUIRED
629(1)	GUARDRAIL PAVING	LINEAR FOOT	22,439 22,152
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	14,772 15,070

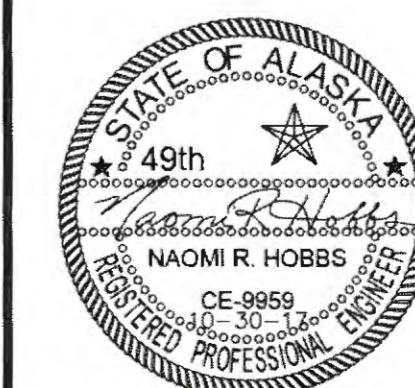
ESTIMATE OF QUANTITIES CONTINUED

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
630(2)	GEOTEXTILE, STABILIZATION	SQUARE YARD	662 336
639(3)	APPROACH	EACH	27 28
639(4)	TURNOUT	EACH	5
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641(5)	TEMPORARY EROSION SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	CONTINGENT SUM	ALL REQUIRED
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
641(7)	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642(3)	THREE PERSON SURVEY PARTY	hour	265 2
642(4)	SET PRIMARY MONUMENT	EACH	40 32
642(10)	MONUMENT CASE	EACH	40 21
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(11)	SPECIAL CONSTRUCTION SIGNS	SQUARE FOOT	170 137.5
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
644(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644(2)	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644(10)	ENGINEERING COMMUNICATIONS	CONTINGENT SUM	ALL REQUIRED
645(1)	TRAINING PROGRAM, 5 TRAINEES/APPRENTICES	LABOR HOUR	2,500
648(1)	ARCHAEOLOGICAL MONITORING	hour	300 176
662(1)	UTILITY RELOCATION	LUMP SUM	ALL REQUIRED
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
671(1)	BANK RECONSTRUCTION	LINEAR FOOT	404 415
671(2)	CHANNEL RECONSTRUCTION	LINEAR FOOT	3,169 3,144.54
671(3)	STREAM SIMULATION MATERIAL	CUBIC YARD	1,911 12.94 (1)
671(4)	BALLASTED LOG CLUSTERS	LUMP SUM	ALL REQUIRED
671(5)	MITIGATION MANAGER	LUMP SUM	ALL REQUIRED
671(6)	CHANNEL EXCAVATION	LINEAR FOOT	491 469.5
671(7)	RIVER PROTRUSIONS AND FISH WHEEL SITES	LUMP SUM	ALL REQUIRED
672(1)	STREAM DIVERSION AND DEWATERING	LUMP SUM	ALL REQUIRED

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
301(1)	AGGREGATE BASE COURSE, GRADING D-1	2.36 TON/CY
306(1)	ATB	131 LB/SY PER INCH DEPTH
401(1B)	HMA, TYPE II; CLASS B	131 LB/SY PER INCH DEPTH
401(4)	ASPHALT BINDER, GRADE PG 58-34	5% OF ITEM 306(1), 6% OF ITEM 401(1)
402(1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/SY, 240 GAL/TON
670(1)	PAINTED TRAFFIC MARKINGS	10,600 LF DOUBLE YELLOW
		15,400 LF SOLID/SKIP YELLOW
		17,900 LF SKIP YELLOW
		88,700 LF OF SINGLE WHITE

PLANS DEVELOPED BY:  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2  
ESTIMATE OF QUANTITIES



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D1	162

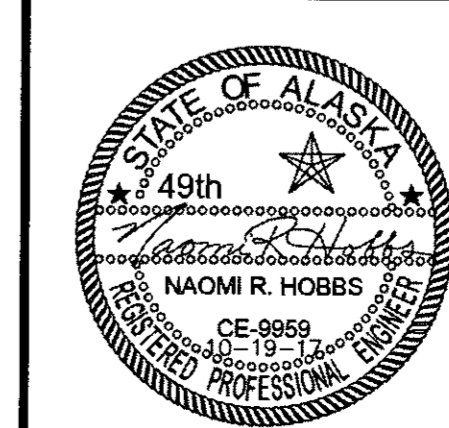
201 CLEARING AND GRUBBING					
SHEET	START STATION	END STATION	201(1A) CLEARING AREA (ACRE)	201(3A) CLEARING & GRUBBING AREA (ACRE)	REMARKS
F1	181+00	193+00	0.5	1.4	Varies
F2	193+00	204+00	0.5	1.3	
F3	204+00	215+00	0.5	0.9	
F4	215+00	226+00	0.3	0.8	
F5	226+00	237+00	0.2	1.0	
F6	237+00	248+00	0.0	1.1	
F7	248+00	259+00	0.0	0.9	
F8	259+00	270+00	0.0	1.0	
F9	270+00	281+00	0.2	0.9	
F10	281+00	292+00	0.5	1.3	
F11	292+00	303+00	0.4	0.9	
F12	303+00	314+00	0.5	2.0	
F13	314+00	325+00	0.3	0.9	
F14	325+00	336+00	0.2	0.8	
F15	336+00	347+00	0.3	0.9	
F16	347+00	358+00	0.7	1.9	
F17	358+00	369+00	0.8	1.2	
F18	369+00	380+00	0.7	1.1	
F19	380+00	391+00	0.3	1.0	
F20	391+00	402+00	0.9	1.1	
F21	402+00	413+00	0.8	1.2	
F22	413+00	424+00	0.5	1.1	
F23	424+00	435+00	0.4	1.6	
F24	435+00	446+00	0.3	1.3	
F25	446+00	457+00	0.3	1.0	
F26	457+00	468+00	0.3	1.0	
F27	468+00	479+00	0.2	0.1	
F28	479+00	490+00	0.1	1.1	
F29	490+00	501+00	0.1	1.0	
F30	501+00	512+00	0.3	1.3	
F31	512+00	523+00	0.4	1.0	
F32	523+00	534+00	0.1	1.2	
F33	534+00	545+00	0.2	1.2	
F34	545+00	556+00	0.3	1.8	
F35	556+00	567+00	0.3	1.7	
F36	567+00	578+00	0.3	1.8	
F37	578+00	589+00	0.3	1.5	
F38	589+00	600+00	0.2	1.3	
F39	600+00	611+00	0.1	2.1	
F40	611+00	621+61	0.3	0.4	
TOTAL			13.6	47.4 28.0	ACRE

INVASIVE SPECIES TYPE LEGEND		
SPECIES CODE	SCIENTIFIC NAME	COMMON NAME
CARA	Campanula rapunculioides	Rampion bellflower
CIAR	Cirsium arvense	Canada thistle
CRTE	Crepis tectorum	Narrowleaf hawkbeard
ELRE	Elymus repens	Quackgrass
GATE	Galeopsis tetrahit	Hempnettle
LAPU	Lactuca tatarica (L. pulchella)	Blue-flowering lettuce
LEVU	Leucanthemum vulgare	Oxeye daisy
LIVU	Linaria vulgaris	Common toadflax
LYSA	Lythrum salicaria	Purple loosestrife
MEAL	Melilotus alba	White sweetclover
PHAR	Phalaris arundinacea	Reed canarygrass
SEJA	Senecio jacobaea	Tansy ragwort
TAVU	Tanacetum vulgare	Common tansy
VICR	Vicia cracca	Bird vetch

201(7) INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL					
SHEET	START STATION	END STATION	OFFSET	AREA (SY)	SPECIES
T1	181+18	182+63	LT	48.1	Varies LEVU
T1	182+30	182+34	RT	1.4	LEVU
T1	182+61	183+11	RT	16.5	GATE
T1	182+97	184+96	LT	65.9	LEVU/LIVU/VICR
T1	185+51	187+43	RT	134.9	LEVU
T1	185+93	187+12	RT/LT	33.7	LEVU/LIVU/VICR
T1	185+93	186+04	LT	12.6	LEVU
T1	187+88	188+68	RT	34.7	LEVU
T1	194+34	194+83	RT	47.1	PHAR/VICR
T1	195+29	195+36	RT	3.1	PHAR
T1	195+69	195+95	RT	89.1	LEVU/LIVU/VICR
T1	195+85	197+72	RT	8.7	PHAR
T1	197+56	197+81	LT	5.7	CARA
T1	198+62	204+27	RT	162.9	LEVU
T1	200+85	200+89	LT	1.4	LEVU
T1	202+04	202+08	LT	1.4	LEVU/LIVU
T1	202+23	202+70	LT	42.8	LEVU
T1	203+34	204+75	LT	98.6	LEVU/LIVU
T1	205+72	205+78	RT	3.1	LEVU
T1-T2	205+48	207+42	LT	112.3	ELRE
T2	208+87	208+91	LT	1.4	PHAR
T2	210+66	211+30	RT	34.9	ELRE
T2	214+41	214+84	RT	9.4	LEVU
T2	214+69	214+73	LT	1.4	PHAR
T2	215+58	217+52	LT	167.9	LEVU/PHAR
T2	217+73	218+67	RT	32.1	ELRE
T2	219+54	219+58	LT	1.4	PHAR
T2	221+61	222+09	LT	10.6	LEVU
T2	226+50	228+41	LT	96.1	LEVU
T2	227+24	228+07	RT	18.3	LEVU
T2	228+98	229+02	LT	1.4	PHAR
T2-T3	229+74	231+29	LT	34.4	LEVU
T2-T3	229+98	231+02	RT	34.4	LEVU
T3	231+88	232+67	LT	68.9	PHAR
T3	232+59	232+65	RT	3.1	PHAR
T3	233+13	233+27	LT	17.1	PHAR/LIVU
T3	235+02	235+08	RT	3.1	PHAR
T3	235+13	236+97	LT	160.5	PHAR/ELRE/LIVU
T3	235+39	236+44	RT	57.8	PHAR
T3	237+40	238+94	LT	34.1	LEVU/LIVU
T3	240+39	242+54	LT	74.1	LEVU/LIVU
T3	243+68	245+16	LT	65.4	LEVU
T3	249+04	249+94	RT	20.5	LEVU
T3-T4	249+52	254+53	LT	167.0	LEVU
T3	252+01	252+71	RT	15.4	LEVU
T4	256+18	256+74	RT	12.3	LEVU
T4	258+71	259+21	LT	11.0	LEVU
T4	260+00	264+59	LT	151.9	LEVU
T4	262+56	264+12	RT	34.6	LEVU
T4	266+47	268+08	LT	70.8	LEVU/ELRE
T4	266+49	277+52	RT	441.2	LEVU/PHAR/CIAR/LIVU
T4	269+03	271+71	LT	59.3	LEVU/LIVU/VICR
T4	271+71	277+63	LT	208.3	LEVU/GATE
T4-T5	277+55	278+25	RT	38.4	PHAR
T5	280+65	281+67	LT	33.9	LEVU/CARA
T5	280+74	288+81	RT	716.6	LEVU/ELRE/PHAR/LIVU/GATE
T5	283+94	291+11	LT	387.3	PHAR
T5	290+27	293+70	RT	228.3	LEVU/ELRE/PHAR/LIVU
T5	294+51	295+46	LT	153.1	ELRE/PHAR
T5	295+71	296+01	LT	11.1	LEVU
T5	296+05	296+21	LT	22.3	LEVU/ELRE
T5	296+45	298+92	LT	163.8	Varies LEVU/CARA

201(7) INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL (CONT'D)					
SHEET	START STATION	END STATION	OFFSET	AREA (SY)	REMARKS
T5	299+21	299+25	LT	1.4	Varies PHAR
T5-T6	299+42	303+34	LT	260.5	LEVU/LIVU
T6	303+35	303+45	RT	8.7	LEVU
T6	304+31	305+87	RT	68.9	LEVU/LIVU
T6	305+56	306+19	LT	41.7	LEVU
T6	308+52	311+60	RT	2,369	LEVU/PHAR
T6	312+12	313+41	LT	85.1	LEVU/LIVU
T6	313+78	314+41	LT	54.6	ELRE
T6	314+86	315+51	LT	43.0	LIVU
T6	315+81	322+74	LT	152.5	LEVU/LIVU
T6	318+79	319+80	RT	67.5	LEVU/ELRE
T6	320+00	321+40	RT	47.5	LEVU
T6	322+71	322+76	RT	3.1	CIAR
T6-T7	323+79	334+40	LT	629.7	LEVU/ELRE/TAVU
T6-T7	324+20	325+15	RT	21.1	LEVU
T7	326+21	331+19	RT	224.1	LEVU
T7	336+78	336+90	LT	12.6	LIVU
T7	337+92	341+33	LT	189.0	LEVU/LIVU
T7	338+38	342+16	RT	167.5	LEVU/LIVU
T7	345+25	346+29	RT	34.5	LEVU
T7	345+73	347+66	LT	85.2	LEVU
T7	348+57	348+67	LT	8.7	PHAR
T7	349+42	349+51	LT	8.7	PHAR
T7-T8	349+80	357+26	LT	331.8	LEVU/ELRE/LIVU/GATE
T8	350+62	350+68	RT	3.1	
T8	351+51	352+95	RT	32.1	LEVU
T8	352+15	352+19	RT	1.4	PHAR
T8	352+30	352+88	RT	19.2	LIVU
T8	352+99	353+67	RT	22.2	PHAR
T8	354+62	361+31	RT	552.5	LEVU/LIVU/VICR/GATE
T8	358+34	360+89	LT	132.1	LEVU/LIVU/GATE
T8	361+88	365+02	RT	278.2	LEVU/LIVU/GATE
T8	362+35	363+09	LT	32.8	GATE
T8-T9	366+35	377+74	LT	575.3	LEVU/LIVU/GATE
T8	367+03	367+46	RT	23.7	LEVU
T8	369+00	369+99	RT	160.8	LEVU/LIVU/GATE
T8	369+98	370+02	RT	1.4	PHAR
T8-T9	370+23	376+08	RT	959.1	LEVU/GATE
T9	375+07	375+47	RT	17.5	PHAR
T9	378+39	383+03	RT	269.3	LEVU/LIVU
T9	379+92	381+23	LT	72.3	LEVU/LIVU
T9	383+49	385+13	LT	72.3	LEVU
T9	385+48	386+24	LT	33.1	LIVU
T9	386+80	388+16	LT	59.5	LEVU/LIVU
T9	388+64	394+20	LT	318.0	LEVU/LIVU/VICR
T9	389+43	394+20	RT	210.1	LEVU/LIVU/VICR
T9	394+32	394+40	RT	5.6	LIVU
T9	395+57	396+21	LT	45.8	ELRE
T9	395+60	396+08	RT	10.5	LEVU
T9	396+29	396+72	RT	9.4	PHAR
T9	396+30	397+26	LT	43.5	LEVU
T10	398+38	399+24	LT	39.2	ELRE
T10	399+09	399+98	RT	95.5	LEVU/LIVU
T10	400+08	401+32	LT	56.1	Varies LEVU

PLANS DEVELOPED BY:  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION  
MILEPOST 3.9 TO 12.2**  
**MISCELLANEOUS  
SUMMARIES**

FILE: 0:\2A\61850-01\BSCAD\WP 3-12 PSE\D SHEETS\D-SHEET15.dwg DATE: 10/18/2017 14:21 LAYOUT: D1 DESIGNED: N. HOBBS CHECKED: S. NOBLE DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D2	162

FILE 0:\24\61850-01\65CAD\MP 3-12 PSEAD SHEETS\D-SHEETS.dwg  
 DATE 10/18/2017 14:21 LAYOUT D2  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER

**201(7) INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL (CONT'D)**

SHEET	START STATION	END STATION	OFFSET	AREA (SY)	REMARKS
T10	401+62	403+86	RT	74.8	Varies LEVU/LIVU
T10	403+32	404+29	LT	42.7	LEVU/LIVU
T10	404+08	404+40	RT	10.6	PHAR
T10	404+91	405+21	LT	13.2	LIVU
T10	405+26	407+35	LT	47.3	ELRE/LIVU
T10	406+53	406+89	RT	11.7	PHAR
T10	408+26	409+31	LT	46.3	LEVU/LIVU
T10	408+99	409+46	RT	32.6	PHAR/CIAR
T10	409+50	410+21	RT	15.6	LEVU
T10	410+32	410+64	RT	7.1	PHAR
T10	410+96	411+04	RT	5.6	PHAR
T10	411+49	412+26	LT	34.2	ELRE/LIVU
T10	412+22	414+23	RT	22.4	ELRE
T10	412+79	414+44	LT	72.8	LEVU/LIVU
T10	414+01	414+17	RT	22.3	LEVU
T10	415+27	415+33	LT	3.1	LEVU/MCR
T10	416+07	418+57	RT	186.3	LEVU/ELRE/GATE
T10	420+05	420+21	LT	22.3	ELRE
T10	420+01	421+07	RT	46.8	ELRE
T11	423+10	423+70	RT	33.0	ELRE
T11	425+35	426+29	RT	71.1	LEVU
T11	440+43	440+96	LT	29.2	ELRE
T11	442+58	442+70	RT/LT	12.6	LEVU/GATE
T11	443+27	443+36	LT	5.6	ELRE/GATE
T11-T12	444+82	448+60	RT/LT	211.5	LEVU/ELRE/LIVU/MCR/GATE
T12	447+67	449+18	RT	82.4	LEVU
T12	450+41	451+62	RT	105.7	LEVU/PHAR/LIVU
T12	451+48	453+10	LT	72.0	LEVU/LIVU
T12	454+22	456+14	LT	63.9	LEVU/LIVU/VICR
T12	456+79	457+81	LT	56.4	LEVU/LIVU/GATE
T12	458+79	459+33	LT	17.9	GATE
T12	460+07	460+86	LT	35.1	LEVU/GATE
T12-T13	461+80	470+10	RT/LT	346.2	LEVU/LIVU/MCR/GATE
T12	469+27	469+94	RT	22.1	LEVU
T13	470+10	470+94	LT	28.0	ELRE
T13	470+25	470+55	RT	9.5	ELRE
T13	470+40	470+46	LT	3.1	MEAL
T13	470+96	471+57	LT	26.6	LEVU/ELRE
T13	471+48	471+88	RT	13.3	ELRE
T13	473+27	477+85	RT/LT	152.6	LEVU
T13	473+82	476+32	RT/LT	55.5	ELRE
T13	474+57	475+19	LT	20.8	LEVU
T13	476+42	477+47	LT	58.1	LEVU/ELRE
T13	479+08	479+60	LT	29.3	ELRE
T13	481+19	482+02	LT	27.3	LEVU/ELRE
T13	484+11	485+44	RT	73.8	LEVU/ELRE
T13	485+06	488+47	LT	150.7	LEVU/ELRE
T13	487+33	491+72	RT	193.6	LEVU/ELRE
T13	488+58	489+03	LT	19.7	VICR
T13	489+23	490+15	LT	51.6	LEVU/ELRE
T13	490+26	490+60	LT	22.0	MEAL
T13	490+63	492+87	RT	126.8	LEVU/LIVU
T13	491+73	492+26	RT	5.9	ELRE
T13	492+49	493+54	LT	34.7	LEVU/ELRE
T14	494+72	494+80	RT	5.6	LEVU
T14	496+65	497+27	RT	56.8	PHAR
T14	497+65	497+73	RT	5.6	PHAR
T14	497+94	498+03	RT	5.6	PHAR
T14	498+40	499+27	RT	78.1	PHAR
T14	500+02	500+10	RT	5.6	Varies PHAR

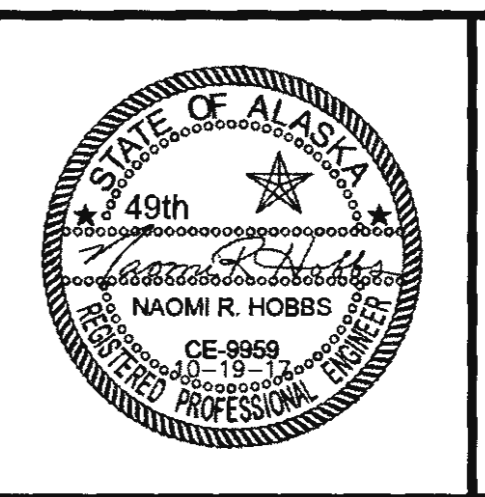
**201(7) INVASIVE PLANT SPECIES CONTROL, REMOVAL, AND DISPOSAL (CONT'D)**

SHEET	START STATION	END STATION	OFFSET	AREA (SY)	REMARKS
T14	502+19	504+07	LT	42.6	Varies LEVU
T14	503+09	505+39	RT/LT	977.5	LEVU
T14	506+30	509+88	RT/LT	86.9	LEVU
T14	511+06	511+22	RT	22.3	LEVU
T14	511+84	512+71	LT	38.2	ELRE
T15	519+50	525+82	LT	413.5	LEVU/ELRE/VICR/GATE
T15	521+46	525+68	RT	139.8	VICR
T15	525+77	527+69	RT	63.8	LEVU/VICR
T15-T16	531+07	543+36	LT	649.9	LEVU/LIVU
T15	532+80	533+61	RT	27.1	LEVU
T15-T16	541+58	542+74	RT	25.9	PHAR
T16	543+38	548+45	LT	281.8	LEVU/MEAL
T16	547+66	552+54	RT/LT	326.6	LEVU/MEAL/GATE
T16	548+45	549+70	LT	70.0	LEVU/MEAL/VICR
T16	549+81	551+58	LT	39.4	LEVU/MEAL/VICR
T16	550+64	552+54	LT	289.8	LEVU/ELRE
T16	551+91	551+97	LT	3.1	PHAR
T16	552+78	553+84	LT	92.3	LEVU/MEAL/LIVU/CRTE
T16	553+91	554+01	LT	8.7	PHAR
T16	553+93	556+25	RT/LT	71.1	LEVU/MEAL
T16	555+97	557+08	LT	74.8	LEVU
T16	557+38	558+58	RT	26.4	MEAL
T16	560+19	562+45	LT	152.1	LEVU/MCR
T16	562+19	564+06	RT	62.2	LEVU/LIVU/VICR
T16	564+54	565+81	LT	83.8	LEVU
T16-T17	564+57	566+31	RT	58.0	LEVU
T17	567+58	569+31	LT	113.7	LEVU/LIVU
T17	569+32	569+95	LT	20.7	PHAR
T17	570+23	571+04	LT	26.7	LEVU
T17	572+62	574+69	LT	68.5	LEVU
T17	573+05	573+21	RT	22.3	LAPU
T17	579+37	581+37	RT	66.6	LEVU
T17	579+69	580+94	LT	55.4	LEVU
T17	581+51	584+43	LT	160.9	LEVU/ELRE
T17	582+74	582+86	LT	12.6	ELRE
T17	584+21	584+29	LT	5.6	ELRE
T17	584+15	585+64	RT	66.1	LEVU
T17	585+49	585+82	LT	14.5	LEVU
T17	586+13	586+81	LT	37.0	LEVU
T17-T18	588+36	590+68	LT	153.5	LEVU/MCR/GATE
T18	592+21	593+17	LT	53.2	LEVU
T18	592+91	593+34	RT/LT	33.4	PHAR
T18	593+75	595+95	LT	74.1	LEVU
T18	596+68	598+13	RT/LT	64.8	LEVU
T18	597+01	597+09	RT	5.6	PHAR
T18	598+46	599+68	RT	95.0	PHAR
T18	599+17	600+12	LT	42.2	LEVU/LIVU
T18	599+55	601+21	RT	54.0	LEVU/ELRE/LIVU
T18	601+14	602+84	LT	93.8	LEVU
T18	601+25	602+19	RT	31.0	ELRE
T18	603+09	603+72	LT	20.6	ELRE
T18	603+71	603+75	RT	1.4	LEVU
T18	603+89	603+95	RT	3.1	PHAR
T18	604+99	605+36	LT	12.6	LEVU
T18	605+17	607+02	RT	82.0	PHAR/LIVU
T18-T19	606+54	611+83	LT	325.1	LEVU/LIVU/GATE
T18	607+86	607+95	RT	8.7	PHAR
T18	609+59	609+67	RT	5.6	PHAR
T19	613+05	613+60	LT	23.9	LEVU
T19	614+19	617+57	LT	296.1	LEVU/GATE
T19	621+03	623+06	LT	67.0	Varies LEVU/GATE
TOTAL				23,371	15,099 SY

**202(2) REMOVAL OF PAVEMENT**

SHEET	START STATION	END STATION	AREA (SY)	REMARKS
F1	182+00	193+00	3,368	Varies
F2	193+00	204+00	3,250	
F3	204+00	215+00	3,400	
F4	215+00	226+00	3,392	
F5	226+00	237+00	3,377	
F6	237+00	248+00	3,397	
F7	248+00	259+00	3,382	
F8	259+00	270+00	3,395	
F9	270+00	281+00	3,320	
F10	281+00	292+00	3,400	
F11	292+00	303+00	3,389	
F12	303+00	314+00	3,414	
F13	314+00	325+00	3,470	
F14	325+00	336+00	3,409	
F15	336+00	347+00	3,394	
F16	347+00	358+00	3,341	
F17	358+00	369+00	3,424	
F18	369+00	380+00	3,509	
F19	380+00	391+00	3,382	
F20	391+00	402+00	3,379	
F21	402+00	413+00	3,366	
F22	413+00	424+00	3,418	
F23	424+00	435+00	3,398	
F24	435+00	446+00	3,355	
F25	446+00	457+00	3,393	
F26	457+00	468+00	3,429	
F27	468+00	479+00	3,478	
F28	479+00	490+00	3,444	
F29	490+00	501+00	3,475	
F30	501+00	512+00	3,653	
F31	512+00	523+00	3,410	
F32	523+00	534+00	3,445	
F33	534+00	545+00	3,439	
F34	545+00	556+00	3,419	
F35	556+00	567+00	3,657	
F36	567+00	578+00	3,459	
F37	578+00	589+00	3,464	
F38	589+00	600+00	3,532	
F39	600+00	611+00	3,526	
F40	611+00	621+61	2,682	Varies
TOTAL			136,234	138,105 SY

PLANS DEVELOPED BY:  
 DOWL  
 5368 COMMERCIAL BLVD.  
 JUNEAU, AK 99801  
 (907) 780-3533  
 #AECL848



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
 MISCELLANEOUS  
 SUMMARIES

FILE: q:\24\61850-01\65CAD\mp 3-12 psc\VD SHEETS\D-SHEETS.dwg  
 DATE: 8/3/2017 10:29 LAYOUT: D3 DESIGNED: N. HOBBS CHECKED: S. NOBLE DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D3	162

SHEET	START		END		LENGTH (LF)	SIZE (IN)	REMARKS
	STATION	OFFSET	STATION	OFFSET			
F1	182+37	51' LT	182+37	36' RT	87	48	Varies
F1	189+61	26' RT	189+58	96' RT	70	24	
F3	209+26	32' RT	209+48	33' RT	22	18	
F3	211+86	33' RT	212+12	34' RT	26	18	
F3	212+64	32' RT	212+97	32' RT	33	18	
F3	213+09	28' LT	213+05	30' RT	58	24	
F3	213+09	34' RT	214+44	79' RT	142	24	
F4	215+03	29' RT	215+04	31' RT	60	24	
F4	223+25	26' LT	223+69	24' RT	66	48	
F4	225+56	33' RT	225+06	33' RT	50	18	
F5	230+08	29' RT	230+01	31' LT	60	24	
F5	232+66	37' RT	233+20	35' RT	54	24	
F6	237+62	59' RT	237+25	63' RT	37	18	
F6	241+38	33' RT	241+33	26' LT	59	24	
F6	246+15	29' RT	246+17	29' LT	58	36	
F7	249+41	28' RT	249+44	30' LT	58	24	
F10	289+84	32' RT	290+10	30' RT	26	12	
F11	293+88	28' RT	293+88	22' LT	50	24	
F11	293+92	29' RT	293+92	22' LT	50	24	
F11	294+21	69' RT	294+26	88' RT	20	30	
F11	294+92	54' RT	294+76	42' RT	20	30	
F11	299+61	31' RT	299+59	24' LT	55	24	
F11	300+94	30' RT	300+97	25' LT	54	24	
F13	315+69	22' RT	315+70	30' LT	52	24	
F13	318+56	43' RT	318+34	40' RT	22	24	
F13	320+17	29' RT	320+10	23' LT	53	36	
F14	325+81	30' RT	325+85	30' LT	61	48	
F16	350+97	30' RT	351+01	25' LT	56	24	
F17	364+56	27' RT	364+83	28' RT	28	18	
F17	367+48	34' RT	367+44	22' LT	56	24	
F18	370+08	28' RT	370+04	24' LT	52	24	
F18	373+46	29' RT	373+48	28' LT	56	24	
F19	383+17	37' RT	383+16	25' LT	62	36	
F21	404+57	24' RT	404+72	38' LT	64	24	
F21	408+71	27' RT	408+73	30' LT	58	24	
F22	421+11	29' RT	421+04	26' LT	55	24	
F22	421+16	28' RT	421+08	26' LT	55	24	
F23	434+30	53' RT	434+26	11' LT	64	24	
F24	435+69	56' RT	435+49	56' RT	21	18	
F25	450+26	30' RT	450+33	28' LT	58	24	
F25	454+55	37' RT	454+30	36' RT	25	18	
F25	454+58	36' RT	454+61	27' LT	63	24	
F26	463+83	35' RT	463+82	17' LT	52	24	
F28	484+55	26' RT	484+43	49' LT	77	24	
F31	513+74	32' RT	513+59	38' LT	72	24	
F31	513+81	31' RT	513+67	39' LT	71	36	
F31	519+15	20' RT	519+23	40' LT	60	24	
F32	532+21	26' RT	532+22	23' LT	49	24	
F33	541+32	21' RT	541+25	35' LT	56	24	
F34	548+17	29' RT	548+18	29' LT	58	24	
F35	558+36	17' RT	558+36	38' LT	55	24	
F36	570+56	27' RT	570+60	34' LT	61	24	
F36	573+41	22' RT	573+41	39' LT	61	24	
F36	577+88	19' RT	577+88	35' LT	54	24	
F37	581+28	25' RT	581+33	36' LT	61	24	
F38	590+65	24' RT	590+62	38' LT	62	24	
F38	590+75	24' RT	590+71	38' LT	63	24	
F38	597+72	9' RT	597+80	49' LT	58	24	
F39	608+25	19' RT	608+29	39' LT	59	24	Varies
TOTAL					3,205	LF	
					3126		

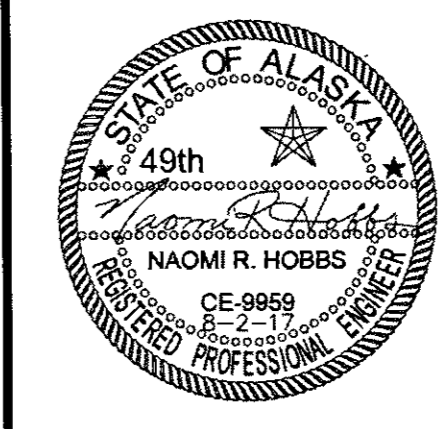
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
F5	233+14	RT	1	REMOVE AND RESET
F22	421+81	RT	1	REMOVE AND RESET
TOTAL			2	EA

SHEET	START STATION	END STATION	VOLUME (CY)	UNSUITABLE MATERIAL VOLUME (CY)	REMARKS
F1	181+00	193+00	4,715	1,898	Varies
F2	193+00	204+00	1,301	591	
F3	204+00	215+00	4,320	0	
F4	215+00	226+00	3,672	600	
F5	226+00	237+00	680	49	
F6	237+00	248+00	1,152	458	
F7	248+00	259+00	3,099	0	
F8	259+00	270+00	390	0	
F9	270+00	281+00	13,620	0	
F10	281+00	292+00	15,102	0	INCLUDES ROCK CUT 1
F11	292+00	303+00	839	0	
F12	303+00	314+00	32,447	0	INCLUDES ROCK CUTS 2&3
F13	314+00	325+00	1,058	0	
F14	325+00	336+00	789	0	
F15	336+00	347+00	445	0	
F16	347+00	358+00	15,470	0	INCLUDES ROCK CUTS 4&5
F17	358+00	369+00	21,201	0	INCLUDES ROCK CUTS 4&5
F18	369+00	380+00	8,423	0	INCLUDES ROCK CUT 6
F19	380+00	391+00	6,647	0	INCLUDES ROCK CUT 6
F20	391+00	402+00	16,282	0	INCLUDES ROCK CUT 7
F21	402+00	413+00	8,488	0	INCLUDES ROCK CUTS 7&8
F22	413+00	424+00	606	0	
F23	424+00	435+00	1,554	0	
F24	435+00	446+00	2,639	0	
F25	446+00	457+00	663	0	
F26	457+00	468+00	1,062	0	
F27	468+00	479+00	1	2,864	
F28	479+00	490+00	2,823	2,693	
F29	490+00	501+00	968	430	
F30	501+00	512+00	9	1,838	
F31	512+00	523+00	310	409	
F32	523+00	534+00	1,748	0	INCLUDES ROCK CUT 9
F33	534+00	545+00	9,405	0	INCLUDES ROCK CUT 10
F34	545+00	556+00	20,549	0	INCLUDES ROCK CUTS 10&11
F35	556+00	567+00	19,842	0	INCLUDES ROCK CUTS 12&13
F36	567+00	578+00	21,338	0	INCLUDES ROCK CUTS 12&13
F37	578+00	589+00	13,193	0	
F38	589+00	600+00	7,291	0	
F39	600+00	611+00	2,048	0	
F40	611+00	621+61	3,613	0	Varies
SUBTOTAL			269,802	11,830	CY
APPROACHES				1,197	CY
TURNOUTS				443	CY
ROUNDED TOTAL			283,280	295,572	CY

SHEET	START STATION	END STATION	AREA (SY)	REMARKS
F1/F2	186+57	199+23	2,992	Varies
F4	219+63	221+26	50	
F6	237+56	239+82	86	
F11	295+42	295+76	16	
F20	392+08	394+06	107	
F20	396+32	399+42	86	
F22	414+00	415+84	40	
F23/F24	430+12	435+96	497	
F24/F25	437+10	446+42	485	
F26	460+75	463+87	216	
F27/F28	473+51	484+45	1,987	
F29/F30	498+14	509+88	2,428	
F31	514+31	518+69	603	
F33/F34	541+78	546+65	382	
F34	550+15	552+21	206	
F34	554+09	555+00	47	
F35	559+28	560+80	31	
F35/F36	564+76	568+61	204	
F38	589+64	598+29	1,841	Varies
TOTAL			12,304	SY
			12,931	

SHEET	START STATION	END STATION	LENGTH (LF)	REMARKS
F9-F10	279+75	282+75	14,924	Varies
F12	304+50	311+50	21,522	
F16-F17	353+50	360+00	24,304	
F18-F19	377+25	381+00	7,491	
F20-F21	397+50	404+00	14,504	
F21	410+00	411+75	2,354	
F32	523+50	525+25	2,889	
F33-F34	542+50	546+75	12,593	
F34	552+00	554+00	3,660	
F35-F36	556+75	570+50	18,194	
F36	571+50	577+00	12,284	
F38	587+00	589+50	8,664	Varies
TOTAL			143,383	LF
			141,798	

PLANS DEVELOPED BY:  
 DOWL  
 5368 COMMERCIAL BLVD.  
 JUNEAU, AK 99801  
 (907) 780-3533  
 #AECL848



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
**MISCELLANEOUS**  
**SUMMARIES**

Tkw 8-25-20

FILE G:\24161850-01\65CAD\mp 3-12.pse\0 SHEETS\0-SHEETS.dwg  
 DATE 8/3/2017 10:29 LAYOUT D4  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D4	162

SHEET	START STATION	END STATION	ROCK CUT	LENGTH (LF)	REMARKS
F9-F10	279+75	282+75	1	900	Varies
F12	304+50	311+50	2&3	1,400	
F16-F17	353+50	360+00	4&5	1,300	
F18-F19	377+25	379+50	6	225	
F18-F19	379+50	380+50	6	200	
F18-F19	380+50	381+00	6	50	
F20-F21	397+50	399+50	7	200	
F20-F21	399+50	403+00	7	700	
F20-F21	403+00	404+00	7	100	
F21	410+00	411+75	8	175	
F32	523+50	525+25	9	175	
F33-F34	542+50	545+00	10	500	
F33-F34	545+00	546+00	10	300	
F33-F34	546+00	546+75	10	150	
F34	552+00	554+00	11	200	
F35-F36	556+75	564+50	12&13	775	
F35-F36	564+50	570+00	12&13	1,100	
F35-F36	570+00	570+50	12&13	50	
F36	571+50	575+50	14&15	400	
F36	575+50	576+00	14&15	100	
F36	576+00	577+00	14&15	100	
F37-F38	587+00	588+00	16	200	
F37-F38	588+00	589+50	16	450	Varies
TOTAL				<del>9,750</del> 13,040	LF

SHEET	START STATION	END STATION	VOLUME (CY)	REMARKS
F1	182+00	193+00	5,305	Varies
F2	193+00	204+00	5,903	
F3	204+00	215+00	5,308	
F4	215+00	226+00	5,377	
F5	226+00	237+00	5,315	
F6	237+00	248+00	5,288	
F7	248+00	259+00	5,257	
F8	259+00	270+00	5,202	
F9	270+00	281+00	5,356	
F10	281+00	292+00	5,226	
F11	292+00	303+00	5,243	
F12	303+00	314+00	5,224	
F13	314+00	325+00	5,255	
F14	325+00	336+00	5,215	
F15	336+00	347+00	5,843	
F16	347+00	358+00	5,215	
F17	358+00	369+00	5,291	
F18	369+00	380+00	5,116	
F19	380+00	391+00	4,835	
F20	391+00	402+00	5,552	
F21	402+00	413+00	5,356	
F22	413+00	424+00	5,437	
F23	424+00	435+00	5,410	
F24	435+00	446+00	5,356	
F25	446+00	457+00	4,372	
F26	457+00	468+00	4,646	
F27	468+00	479+00	5,188	
F28	479+00	490+00	5,185	
F29	490+00	501+00	4,883	
F30	501+00	512+00	5,352	
F31	512+00	523+00	5,344	
F32	523+00	534+00	5,185	
F33	534+00	545+00	5,247	
F34	545+00	556+00	5,847	
F35	556+00	567+00	5,185	
F36	567+00	578+00	5,185	
F37	578+00	589+00	5,363	
F38	589+00	600+00	5,244	
F39	600+00	611+00	5,166	
F40	611+00	621+61	4,109	Varies
ROUNDED TOTAL			<del>209,390</del> 176,178	CY

SHEET	START STATION	END STATION	VOLUME (CY)	REMARKS
F1	181+00	193+00	3,105	Varies
F2	193+00	204+00	6,682	
F3	204+00	215+00	449	
F4	215+00	226+00	128	
F5	226+00	237+00	1,283	
F6	237+00	248+00	2,238	
F7	248+00	259+00	586	
F8	259+00	270+00	1,692	
F9	270+00	281+00	113	
F10	281+00	292+00	908	
F11	292+00	303+00	2,018	
F12	303+00	314+00	8,325	
F13	314+00	325+00	1,458	
F14	325+00	336+00	2,056	
F15	336+00	347+00	1,498	
F16	347+00	358+00	6,899	
F17	358+00	369+00	123	
F18	369+00	380+00	365	
F19	380+00	391+00	390	
F20	391+00	402+00	532	
F21	402+00	413+00	872	
F22	413+00	424+00	2,977	
F23	424+00	435+00	7,963	
F24	435+00	446+00	3,514	
F25	446+00	457+00	1,981	
F26	457+00	468+00	1,889	
F27	468+00	479+00	8,771	
F28	479+00	490+00	3,105	
F29	490+00	501+00	1,266	
F30	501+00	512+00	1,603	
F31	512+00	523+00	1,789	
F32	523+00	534+00	6,706	
F33	534+00	545+00	1,445	
F34	545+00	556+00	1,296	
F35	556+00	567+00	1,589	
F36	567+00	578+00	1,107	
F37	578+00	589+00	5,304	
F38	589+00	600+00	1,505	
F39	600+00	611+00	889	
F40	611+00	621+61	12	Varies
SUBTOTAL			96,431	CY
ADDITIONAL SUBEXCAVATION			11,267	CY
ROUNDED TOTAL			<del>107,700</del> 107,698	CY

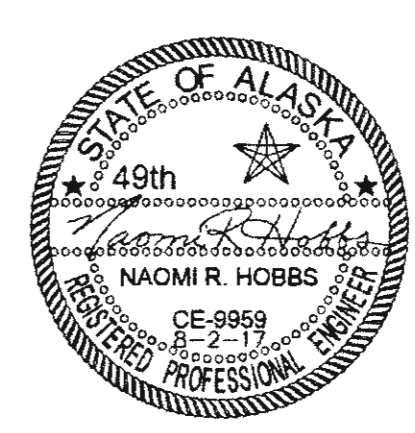
QUANTITY (EA)	REMARKS
53	EA

SHEET	START STATION	END STATION	OFFSET	VOLUME (CY)	REMARKS
F2	194+71	198+05	LT	206	Varies
F8	262+73	265+09	LT	124	
F10	284+38	289+09	LT	270	
F11	296+98	302+33	LT	285	
F12	311+48	313+83	LT	138	
F15	336+48	338+58	LT	106	
F16	349+48	358+18	LT	613	
F17	365+18	366+54	LT	59	
F18	370+98	376+69	LT	339	
F19	379+98	386+08	LT	352	
F19-F20	388+03	392+13	LT	322	
F21	407+13	409+93	LT	188	
F21-F22	411+63	417+95	LT	406	
F23-F26	428+30	458+53	LT	2,411	
F26-F27	459+38	470+43	LT	842	
F29	492+98	498+09	LT	323	
F37	585+76	587+82	LT	186	
F39-F40	610+68	613+37	LT	73	Varies
ROUNDED TOTAL				<del>7,250</del> 12,118	CY

SHEET	START STATION	END STATION	LENGTH (LF)	REMARKS
F9-F10	279+75	282+75	420	
F12	304+50	311+50	570	
F16-F17	353+50	360+00	600	
F18-F19	377+25	381+00	180	
F20-F21	397+50	404+00	360	
F21	410+00	411+75	60	
F32	523+50	525+25	75	
F33-F34	542+50	546+75	300	
F34	552+00	554+00	105	
F35-F36	556+75	570+50	600	
F36	571+50	577+00	285	
F37-F38	587+00	589+50	330	
TOTAL			<del>3,885</del> 0	LF

SHEET	START STATION	END STATION	LENGTH (LF)	REMARKS
F9-F10	279+75	282+75	105	Varies
F12	304+50	311+50	150	
F16-F17	353+50	360+00	150	
F18-F19	377+25	381+00	45	
F20-F21	397+50	404+00	90	
F21	410+00	411+75	15	
F32	523+50	525+25	30	
F33-F34	542+50	546+75	75	
F34	552+00	554+00	30	
F35-F36	556+75	570+50	150	
F36	571+50	577+00	75	
F37-F38	587+00	589+50	90	Varies
TOTAL			<del>1,005</del> 3,005	LF

PLANS DEVELOPED BY:  
 DOWL  
 5368 COMMERCIAL BLVD.  
 JUNEAU, AK 99801  
 (907) 780-3533  
 #AECL848



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
**MISCELLANEOUS**  
**SUMMARIES**



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
①	10-2-2017	REVISED REMARKS	ALASKA	0965(035)/SFHWY00126	2017	D6	162
②	10-19-2017	INLET AND OUTLET STATIONS REVISED					
③	10-30-2017	P37-1 REMOVED, FP-35 ADDED					

501(1) CLASS A CONCRETE - LUMP SUM

SHEET	PIPE ID	START		END		VOLUME (CY)	REMARKS
		STATION	OFFSET	STATION	OFFSET		
F1	P1-1	182+38	36' RT	182+38	51' LT	14	FOR BOTH ENDS
F11	P11-1	293+97	31' RT	293+90	34' LT	14	FOR BOTH ENDS
F22	P22-2	421+16	33' RT	421+12	35' LT	14	FOR BOTH ENDS

NOT INSTALLED PER CDS

602(2A) STRUCTURAL PLATE PIPE-ARCH 12'-7" SPAN, 7'5" RISE, 10 GAGE

PIPE ID	TYPE	INLET		OUTLET		SIZE (IN)	LENGTH (LF)	REMARKS
		STATION	OFFSET	STATION	OFFSET			
FP-14	SPCAPA	484+96	44' RT	484+60	43' LT	151x89	94.5	9" X 2.5" CORRUGATIONS
FP-15	SPCAPA	513+97	44' RT	513+68	43' LT	151x89	94.5	9" X 2.5" CORRUGATIONS
TOTAL							189	LF

603(9) & 603(10) CORRUGATED ALUMINUM PIPE AND PIPE ARCH SUMMARY

PIPE ID	TYPE	INLET		OUTLET		SIZE (IN)	LENGTH (LF)	REMARKS
		STATION	OFFSET	STATION	OFFSET			
FP-1	CAPA	223+88	39' RT	223+23	39' LT	95x67	102	3" X 1" CORRUGATIONS
FP-2	CAP	230+49	38' RT	229+98	40' LT	60	94	3" X 1" CORRUGATIONS
FP-3	CAP	241+80	39' RT	241+38	38' LT	60	88	3" X 1" CORRUGATIONS
FP-4	CAP	246+39	36' RT	246+24	38' LT	60	77	3" X 1" CORRUGATIONS
FP-5	CAP	249+44	35' RT	249+48	35' LT	48	70	3" X 1" CORRUGATIONS
FP-8	CAPA	320+23	36' RT	320+15	36' LT	87x63	72	3" X 1" CORRUGATIONS
FP-9	CAPA	325+84	40' RT	325+84	40' LT	103x71	80	3" X 1" CORRUGATIONS
FP-11	CAP	367+52	34' RT	367+45	33' LT	48	67	3" X 1" CORRUGATIONS
FP-12	CAP	383+21	39' RT	383+21	35' LT	48	74	3" X 1" CORRUGATIONS
FP-16	CAP	532+21	39' RT	532+27	39' LT	36	78	3" X 1" CORRUGATIONS
FP-17	CAPA	590+80	35' RT	590+71	36' LT	103x71	74	3" X 1" CORRUGATIONS
FP-33	CAP	233+21	37' RT	232+69	37' RT	36	52	3" X 1" CORRUGATIONS
FP-34	CAP	245+89	45' LT	245+66	73' LT	60	37	3" X 1" CORRUGATIONS
FP-35	CAP	581+34	39' RT	581+37	39' LT	36	80	3" X 1" CORRUGATIONS
TOTAL		36-INCH CORRUGATED ALUMINUM PIPE					210.8	LF
		48-INCH CORRUGATED ALUMINUM PIPE					211	LF
		60-INCH CORRUGATED ALUMINUM PIPE					296	LF
		87X63-INCH CORRUGATED ALUMINUM PIPE ARCH					72	LF
		95X67-INCH CORRUGATED ALUMINUM PIPE ARCH					102	LF
		103X71-INCH CORRUGATED ALUMINUM PIPE ARCH					154	LF

CDS

P1-1	CAP	182+38	31' RT	182+38	51' LT	48	88	3" X 1" CORRUGATIONS
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603(21) CORRUGATED POLYETHYLENE PIPE SUMMARY

PIPE ID	TYPE	INLET		OUTLET		DIA. (IN)	LENGTH (LF)	REMARKS
		STATION	OFFSET	STATION	OFFSET			
P1-1	CPP	182+38	36' RT	182+38	51' LT	48	88	TYPE II HEADWALLS
P1-2	CPP	189+61	32' RT	189+63	34' LT	24	66	
P3-1	CPP	209+15	32' RT	209+62	31' RT	18	471	
P3-2	CPP	212+64	29' RT	212+99	31' RT	18	36	
P3-3	CPP	213+05	32' RT	213+10	40' LT	24	72	
P3-4	CPP	214+92	36' RT	214+93	40' LT	24	76	
P4-1	CPP	225+08	35' RT	225+66	33' RT	18	59	
P6-1	CPP	237+22	42' RT	237+64	45' RT	18	40	
P9-1	CPP	273+52	29' RT	273+52	31' LT	24	61	
P11-1	CPP	293+96	30' RT	293+90	34' LT	48	65	TYPE II HEADWALLS
P11-2	CPP	299+66	35' RT	299+63	37' LT	24	73	
P11-3	CPP	300+97	36' RT	301+01	37' LT	24	74	
P13-1	CPP	315+75	31' RT	315+74	34' LT	36	66	
P13-2	CPP	318+36	40' RT	318+60	43' RT	24	25	
P14-1	CPP	334+88	30' RT	334+88	28' LT	24	59	
P16-1	CPP	350+96	42' RT	350+96	44' LT	36	86	
P17-1	CPP	364+59	29' RT	364+87	28' RT	12	29	
P18-1	CPP	370+12	32' RT	370+04	32' LT	24	64	
P18-2	CPP	373+50	34' RT	373+52	35' LT	24	70	
P20-1	CPP	396+24	30' RT	396+24	40' LT	24	71	
P20-2	CPP	394+70	30' RT	394+52	30' RT	18	18	INLET STA 395+23 OUTLET STA 395+64
P21-1	CPP	404+59	32' RT	404+76	35' LT	24	70	
P21-2	CPP	408+75	32' RT	408+78	39' LT	24	72	
P22-1	CPP	415+84	31' RT	415+84	33' LT	24	65	
P22-2	CPP	421+16	33' RT	421+12	35' LT	48	69	TYPE II HEADWALLS
P22-3	CPP	421+37	32' RT	421+84	31' RT	18	47	
P23-1	CPP	432+55	30' RT	432+98	30' RT	18	44	
P23-2	CPP	434+33	28' RT	434+31	36' LT	24	65	
P24-1	CPP	441+30	39' RT	441+39	34' LT	24	74	
P25-1	CPP	450+30	32' RT	450+37	35' LT	24	68	
P25-2	CPP	453+49	29' RT	453+88	32' RT	18	40	
P25-3	CPP	454+62	36' RT	454+65	35' LT	24	71	
P26-1	CPP	463+87	35' RT	463+85	38' LT	24	74	
P26-2	CPP	466+97	39' RT	467+61	36' RT	12	65	NOT INSTALLED
P31-1	CPP	519+17	33' RT	519+27	43' LT	24	77	
P33-1	CPP	541+38	34' RT	541+29	35' LT	24	70	
P34-1	CPP	545+48	33' RT	545+48	51' LT	24	84	NOT INSTALLED
P34-2	CPP	548+21	33' RT	548+22	33' LT	24	67	
P35-1	CPP	558+40	33' RT	558+40	38' LT	24	72	
P36-1	CPP	570+60	35' RT	570+64	35' LT	24	71	
P36-2	CPP	573+45	33' RT	573+45	39' LT	24	73	
P36-3	CPP	577+91	32' RT	577+92	37' LT	24	71	
P38-1	CPP	597+72	33' RT	597+84	48' LT	24	82	
P39-1	CPP	609+68	30' RT	609+68	37' LT	24	68	
P40-1	CPP	612+72	30' RT	612+72	26' LT	24	56	
TOTAL		12-INCH CORRUGATED POLYETHYLENE PIPE					94	LF
		18-INCH CORRUGATED POLYETHYLENE PIPE					331	LF
		24-INCH CORRUGATED POLYETHYLENE PIPE					2,061	LF
		36-INCH CORRUGATED POLYETHYLENE PIPE					152	LF
		48-INCH CORRUGATED POLYETHYLENE PIPE					222	LF

NOT INSTALLED - SEE CDS

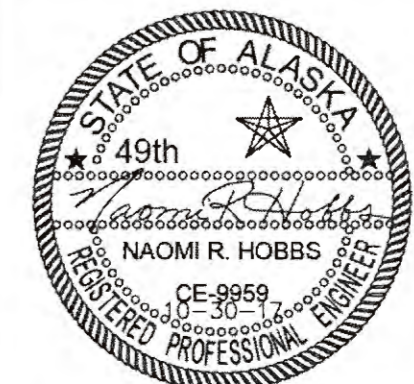
NOT INSTALLED

NOT INSTALLED

P1-3	CPP	187+66	33' RT	187+91	33' RT	12	31	UTILITY ACCESS AREA
P13-2A	CPP	316+26	34' RT	316+71	34' RT	24	44	

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 DATE: 10/30/2017 9:56 LAYOUT: D6  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2

MISCELLANEOUS  
SUMMARIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D7	162

SHEET	START		END		LENGTH (LF)	REMARKS	
	STATION	OFFSET	STATION	OFFSET			
F1-F2	186+20	18' LT	197+75	18' LT	1,175	Varies	
F3	204+63	18' LT	206+99	18' LT	238		
F8-F10	262+73	18' LT	291+25	18' LT	2,850		
F11-F12	295+69	18' LT	303+69	18' LT	800		
F12-F13	307+19	18' LT	314+92	18' LT	775		
F14-F15	335+17	18' LT	340+67	18' LT	550		
F16-F18	349+14	18' LT	376+43	18' LT	2,725		
F18-F20	379+67	18' LT	395+34	38' LT	1,575		END ANCHOR
F20-F22	395+54	34' LT	419+82	18' LT	2,438		END ANCHOR
F22-F27	421+74	18' LT	472+07	18' LT	5,038		
F29-F30	493+25	18' LT	503+25	18' LT	1,000		
F37-F38	585+12	38' LT	591+72	18' LT	663		END ANCHOR
F39-F40	606+83	18' LT	619+26	16' LT	1,238		CONNECT TO EXISTING
TOTAL					21,065		LF

SHEET	START STATION	END STATION	OFFSET	LENGTH (LF)	REMARKS		
F1-F2	186+24	197+93	RT	1,126	Varies		
F8-F10	262+45	289+48	LT	2,702			
F11	296+45	302+73	LT	628			
F16-F18	349+41	377+68	LT	2,827			
F18-F20	379+41	391+94	LT	1,251			
F20-F22	395+86	420+18	LT	2,451			
F22-F27	420+98	471+11	LT	5,023			
F29-F30	490+62	504+00	LT	1,353			
F35	557+84	562+89	LT	511			
F35	563+73	565+69	LT	196			
F37-F38	585+99	590+91	LT	492			
F39-F40	606+27	619+31	LT	1,374			
TOTAL						18,934	LF

SHEET	START STATION	END STATION	LENGTH (LF)	OFFSET	QUANTITY (EA)	REMARKS
F1	185+70	186+20	50	LT	1	EA
F2	197+75	198+24	50	LT	1	
F3	204+14	204+63	50	LT	1	
F3	206+99	207+49	50	LT	1	
F8	262+23	262+73	50	LT	1	
F10	291+25	291+75	50	LT	1	
F11	295+19	295+69	50	LT	1	
F12	303+69	304+19	50	LT	1	
F12	306+70	307+19	50	LT	1	
F13	314+92	315+42	50	LT	1	
F14	334+67	335+17	50	LT	1	
F15	340+67	341+17	50	LT	1	
F16	348+64	349+14	50	LT	1	
F18	376+43	376+92	50	LT	1	
F18	379+18	379+67	50	LT	1	
F22	419+82	420+32	50	LT	1	
F22	421+24	421+74	50	LT	1	
F27	472+07	472+57	50	LT	1	
F29	492+75	493+25	50	LT	1	
F30	503+25	503+74	50	LT	1	
F38	591+72	592+22	50	LT	1	
F39	606+33	606+83	50	LT	1	
TOTAL					22	EA

SHEET	START STATION	END STATION	VOLUME (CY)	REMARKS
F1	189+43	189+79	3	Varies
F34	545+30	545+66	3	
F36	573+27	573+63	3	
F40	612+94	613+30	3	
TOTAL			12	

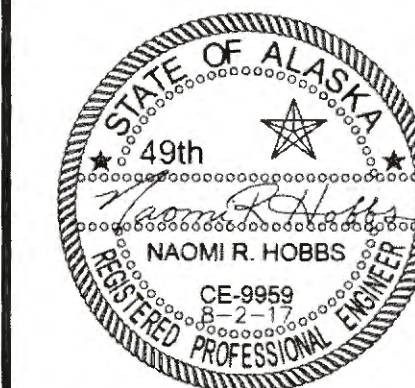
SHEET	STATION	OFFSET	VOLUME (CY)	REMARKS
F3	212+99	31' RT	11	P3-2 (OUTLET)
F3	213+10	40' LT	16	P3-3 (OUTLET)
F3	214+93	40' LT	16	P3-4 (OUTLET)
F9	273+52	32' LT	16	P9-1 (OUTLET)
F13	315+74	34' LT	32	P13-1 (OUTLET)
F13	318+60	43' RT	16	P13-2 (OUTLET)
F18	370+04	32' LT	16	P18-1 (OUTLET)
F20	396+24	40' LT	16	P20-1 (OUTLET)
F21	404+76	35' LT	16	P21-1 (OUTLET)
F31	519+27	43' LT	16	P31-1 (OUTLET)
F33	541+29	35' LT	16	P33-1 (OUTLET)
F34	545+48	41' LT	16	P34-1 (OUTLET)
F34	548+22	33' LT	16	P34-2 (OUTLET)
F35	558+40	38' LT	16	P35-1 (OUTLET)
F36	570+64	35' LT	16	P36-1 (OUTLET)
F36	573+45	39' LT	16	P36-2 (OUTLET)
F36	577+92	38' LT	16	P36-3 (OUTLET)
F37	581+37	39' LT	16	P37-1 (OUTLET)
F38	597+84	48' LT	16	P38-1 (OUTLET)
TOTAL			315	CY

SHEET	START STATION	END STATION	OFFSET	611(B) RIPRAP, CLASS II VOLUME (CY)	611(C) RIPRAP, CLASS III VOLUME (CY)	REMARKS
F1	182+23	182+54	LT	74		P1-1 (OUTLET)
F2	194+71	198+05	LT	768	768	50/50 MIX
F8	262+73	265+09	LT	460	460	50/50 MIX
F10	284+38	289+09	LT	1,043	1,043	50/50 MIX
F11	293+75	294+05	LT	74		P1-11 (OUTLET)
F11	296+98	302+33	LT	1,148	1,148	50/50 MIX
F12	311+48	313+83	LT		982	
F15	336+48	338+58	LT	396	396	50/50 MIX
F16	349+48	358+18	LT	2,202	2,202	50/50 MIX
F17	365+18	366+54	LT		440	
F18	370+98	376+69	LT	1,306	1,306	50/50 MIX
F19	379+98	386+08	LT	1,375	1,375	50/50 MIX
F19-F20	388+03	392+13	LT	1,067	1,067	50/50 MIX
F21	407+13	409+93	LT		1,247	
F21-F22	411+63	417+95	LT	1,469	1,469	50/50 MIX
F22	420+96	421+27	LT	74		P22-2 (OUTLET)
F23-F26	428+30	458+53	LT	8,394	8,394	50/50 MIX
F26-F27	459+38	470+43	LT	2,925	2,925	50/50 MIX
F29	492+98	498+09	LT	1,195	1,195	50/50 MIX
F37	585+76	587+82	LT	620	620	50/50 MIX
F39-F40	610+68	613+37	LT	465	465	50/50 MIX
RIPRAP FOR CHANNEL RECONSTRUCTION				29	0	LARGE WOODY DEBRIS
ROUNDED TOTAL				25,090	27,510	CY
				33,602	37,208	

PIPE ID	INLET		OUTLET		VOLUME (CY)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
FP-2	230+49	38' RT	229+98	40' LT	14	Varies
FP-4	246+39	36' RT	246+24	38' LT	11	
FP-8	320+23	36' RT	320+15	36' LT	12	
FP-34	245+89	45' LT	245+66	73' LT	5	
TOTAL					42	

SHEET	START STATION	END STATION	AREA (ACRE)	REMARKS
F1	182+00	193+00	1.2	Varies
F2	193+00	204+00	1.2	
F3	204+00	215+00	0.8	
F4	215+00	226+00	0.8	
F5	226+00	237+00	0.9	
F6	237+00	248+00	0.9	
F7	248+00	259+00	0.8	
F8	259+00	270+00	0.8	
F9	270+00	281+00	0.8	
F10	281+00	292+00	1.1	
F11	292+00	303+00	0.7	
F12	303+00	314+00	1.8	
F13	314+00	325+00	0.8	
F14	325+00	336+00	0.8	
F15	336+00	347+00	0.7	
F16	347+00	358+00	1.6	
F17	358+00	369+00	1.0	
F18	369+00	380+00	0.9	
F19	380+00	391+00	0.6	
F20	391+00	402+00	1.0	
F21	402+00	413+00	1.0	
F22	413+00	424+00	0.8	
F23	424+00	435+00	1.2	
F24	435+00	446+00	0.7	
F25	446+00	457+00	0.6	
F26	457+00	468+00	0.6	
F27	468+00	479+00	1.2	
F28	479+00	490+00	1.0	
F29	490+00	501+00	0.7	
F30	501+00	512+00	1.2	
F31	512+00	523+00	1.0	
F32	523+00	534+00	1.1	
F33	534+00	545+00	1.1	
F34	545+00	556+00	1.2	
F35	556+00	567+00	1.7	
F36	567+00	578+00	1.7	
F37	578+00	589+00	1.3	
F38	589+00	600+00	0.8	
F39	600+00	611+00	0.6	
F40	611+00	621+61	0.3	
TOTAL			39.0	7.9 ACRE

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2  
**MISCELLANEOUS SUMMARIES**

FILE q:\24\161850-01\65CAD\mp 3-12 psc\D SHEETS\D-SHEETS.dwg DATE 8/3/2017 10:29 LAYOUT D7 CHECKED S. NOBLE DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D8	162

FILE q:\24\161850-01\650CAD\mp 3-12 pse\0 SHEETS\D-SHEETS.dwg  
 DATE 8/3/2017 10:29 LAYOUT DB  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

### 619(4) ROCK MAT

SHEET	START STATION	END STATION	AREA (SY)	REMARKS
F9/F10	279+75	282+75	172	Varies
F12	304+50	311+50	240	
F12	353+50	360+00	563	
F16	354+50	381+00	2,042	
F16/F17	377+25	404+00	2,082	
F18	397+50	411+75	761	
F20/F21	410+00	525+25	5,935	
F21	523+50	546+75	2,084	
F31/F32	542+50	554+00	509	
F33/F34	556+75	570+50	1,364	
F34	571+50	577+00	860	
F34	587+00	589+50	334	Varies
TOTAL			<del>16,946</del> 3,769	SY

### 629(1) GUARDRAIL PAVING

SHEET	START STATION	END STATION	OFFSET	LENGTH (LF)	REMARKS
F1-F2	185+48	198+45	LT	1,298	Varies
F2-F3	204+05	207+74	LT	366	
F8-F10	262+01	291+92	LT	2,996	
F11-F12	294+97	304+42	LT	944	
F12-F13	306+48	315+67	LT	916	
F14-F15	334+45	341+41	LT	694	
F16-F18	348+47	377+09	LT	2,864	
F18-F22	379+01	420+49	LT	4,148	
F22-F27	421+07	472+73	LT	5,172	
F29-F30	492+53	504+00	LT	1,143	
F37-F38	585+12	592+43	LT	732	
F39-F40	606+11	617+77	LT	1,166	Varies
TOTAL				<del>22,439</del> 22,152	LF

### 639(3) APPROACH

SHEET	STATION	OFFSET	TYPE			RADIUS (LF)	WIDTH (LF)	LENGTH (LF)	REMARKS	
			PUBLIC (EA)	RES. (EA)	COMM. (EA)					
G1	200+00	LT	1			40	24	144	HNS 1	
G1	203+07	LT	1			40	24	118	HNS 2	
G2	294+40	LT	1			40	24	75	HNS 3	
G2	344+61	LT	1			40	24	90	HNS 4A	
G4	420+79	LT	1			40	20	96	HNS 7	
G4	504+77	LT	1			40	24	65	HNS 8	
G6	209+38	RT		1		20	14	36	U.S.S. 908	
G6	212+79	RT		1		20	18	36	Schnabel Driveway Lot 4	
G6	215+62	RT			1	40	20	66	Schnabel Driveway Lot 5	
G6	225+33	RT			1	40	24	50	Schnabel Driveway Lot 2	
G6	232+96	RT			1	40	24	72	Schnabel Driveway Lot 1	
G6	237+43	RT		1		20	20	41	Wilson Driveway	
G7	245+61	LT		1		20	14	79	Ramsey Driveway	
G7	257+00	RT			1	20	14	76	Hard Rock Inc. Driveway Lot 4	
G7	294+96	RT		1		20	16	50	Boyce Driveway	
G7	318+48	RT			1	<del>20</del> 44	<del>10</del> 24	56	Boyce & DeBenedetti Driveway	
G7	367+77	RT		1		20	12	61	Native Allotment Driveway	
G7	376+79	RT		1		20	20	43	Driveway 12	
G8	394+63	RT		1		20	14	38	Povey-Martinez Driveway	
G8	395+35	RT		1		20/8	14	59	Povey-Martinez Driveway	
G8	421+57	RT		1		20/10	20	72	Piggot Driveway	
G8	432+77	RT		1		20	20	51	Keirstead Driveway	
G8	453+70	RT		1		20/10	20	60	Driveway 17	
G8	467+17	RT		1		20/11	14	85	Mitchell Tree Driveway	
G9	512+24	RT		1		20	20	78	Floreske Driveway	
G9	517+05	RT		1		20	24	53	Driveway 20	
G9	537+92	RT		1		20/11	14	74	Wackerman Driveway	
SUBTOTAL			6	17	45				EA	
TOTAL								27	28	EA

### 621(5) TRANSPLANTED COTTONWOOD STOCK - LUMP SUM

START STATION	END STATION	STRUCTURE NUMBER	QUANTITY (EA)	REMARKS
298+25	300+25	3	8	
354+80	356+40	7	6	
362+00	363+00	8	4	
385+50	386+00	10	0	
384+00	384+50	12	2	
413+00	413+50	14	0	
415+80	417+20	15	6	
431+00	431+50	16	0	
435+80	437+75	17	8	
441+00	443+10	18	8	
446+00	446+50	19	0	
468+00	468+50	23	0	
494+00	494+50	24	0	
497+80	500+00	25	9	

### 630(1) GEOTEXTILE, SEPARATION

SHEET	START STATION	END STATION	AREA (SY)	REMARKS
F1	186+50	193+00	2,711	Varies
F2	193+00	195+00	844	
F4	217+00	222+00	857	
F5	236+00	237+00	69	
F6	237+00	242+00	654	
F27	471+00	479+00	2,338	
F28	479+00	487+00	2,199	
F29	497+00	501+00	818	
F30	501+00	510+00	3,502	
F31	513+00	516+00	780	Varies
TOTAL			<del>14,772</del> 15,070	SY

### 630(2) GEOTEXTILE, STABILIZATION

SHEET	STATION	OFFSET	AREA (SY)	REMARKS
F1	182+38	51' LT	70	P1-1 (OUTLET)
F3	212+99	31' RT	15	Varies P3-2 (OUTLET)
F3	213+10	40' LT	23	P3-3 (OUTLET)
F3	214+93	40' LT	23	P3-4 (OUTLET)
F9	273+52	32' LT	23	P9-1 (OUTLET)
F11	293+90	34' RT	70	P11-1 (OUTLET)
F13	315+74	34' LT	46	P13-1 (OUTLET)
F13	318+60	43' RT	23	P13-2 (OUTLET)
F18	370+04	32' LT	23	P18-1 (OUTLET)
F20	396+24	40' LT	23	P20-1 (OUTLET)
F21	404+76	35' LT	23	P21-1 (OUTLET)
F22	421+12	35' LT	70	P22-2 (OUTLET)
F31	519+27	43' LT	23	P31-1 (OUTLET)
F33	541+29	35' LT	23	P33-1 (OUTLET)
F34	545+48	41' LT	23	P34-1 (OUTLET)
F34	548+22	33' LT	23	P34-2 (OUTLET)
F35	558+40	38' LT	23	P35-1 (OUTLET)
F36	570+64	35' LT	23	P36-1 (OUTLET)
F36	573+45	39' LT	23	P36-2 (OUTLET)
F36	577+92	38' LT	23	P36-3 (OUTLET)
F37	581+37	39' LT	23	P37-1 (OUTLET)
F38	597+84	48' LT	23	Varies P38-1 (OUTLET)
TOTAL			<del>662</del> 336	SY

### 639(4) TURNOUT

SHEET	STATION	QUANTITY (EA)	REMARKS
G3	344+02	1	HNS 4
G3	378+05	1	HNS 5
G4	394+97	1	HNS 6
G5	553+18	1	HNS 9
G5	584+61	1	HNS 12
TOTAL		5	EA

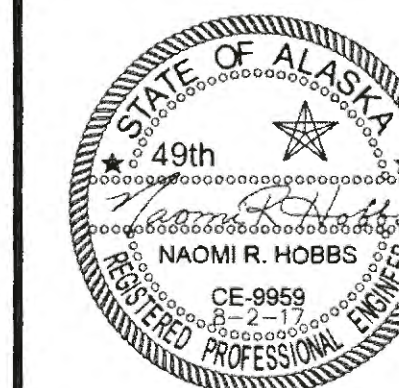
### 621(6) PLANTINGS - LUMP SUM

SHEET	START STATION	END STATION	ROSE QUANTITY (EA)	ALDER QUANTITY (EA)	PLANTING QUANTITY (EA)	REMARKS
F2	194+71	198+05	22	126	148	
F8	262+73	265+09	16	89	105	
F10	284+38	289+09	31	178	209	
F11	296+98	302+33	36	202	238	
F12	311+48	313+83	16	89	105	
F15	336+48	338+58	14	79	93	
F16	349+48	358+18	58	329	387	
F17	365+18	366+54	9	51	60	
F18	370+98	376+69	38	215	253	
F19	379+98	386+08	41	230	271	
F19-F20	388+03	392+13	27	155	182	
F21	407+13	409+93	19	105	124	
F21-F22	411+63	417+95	42	239	281	
F23-F26	428+30	458+53	202	1,142	1,344	
F26-F27	459+38	470+43	74	417	491	
F29	492+98	498+09	34	193	227	
F37	585+76	587+82	14	77	91	
F39-F40	610+68	613+37	18	101	119	

### 643(11) SPECIAL CONSTRUCTION SIGNS

SHEET	HEIGHT (FT)	WIDTH (FT)	QUANTITY (EA)	AREA (SF)	REMARKS
S3	4	4	4	64	MOTORCYCLES USE EXTREME CAUTION
S3	4.5	3.5	2	31.5	PAVEMENT BREAK AHEAD
S3	3.5	3	4	42	
TOTAL			10	137.5	SF

PLANS DEVELOPED BY:  
 OWL  
 5368 COMMERCIAL BLVD.  
 JUNEAU, AK 99801  
 (907) 780-3533  
 #AECL848



STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
**MISCELLANEOUS**  
**SUMMARIES**



FILE q:\24\61850-01\65CAD\mp\_3-12\_pse\AD SHEETS\D-SHEETS.dwg DATE 8/3/2017 10:29 LAYOUT D9 DESTIONED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	D9	162

### 671(1) BANK RECONSTRUCTION

SHEET	START STATION	END STATION	OFFSET	LENGTH (LF)	REMARKS
P1	223+65	223+84	RT	20 18	FP-1
P1	223+90	224+35	RT	45 42	FP-1
P4	246+35	246+45	RT	13	FP-4
P4	246+41	246+48	RT	9	FP-4
P6	319+91	320+19	RT	30 28	FP-8
P6	320+25	320+35	RT	8 13	FP-8
P6	320+10	320+12	LT	14 12	FP-8
P6	320+17	320+19	LT	13	FP-8
P7	325+68	325+80	LT	17 18	FP-9
P7	325+90	325+96	LT	16 17	FP-9
P9	383+17	383+25	RT	9	FP-12
P9	383+22	383+29	RT	6	FP-12
P10	484+38	484+52	LT	50 62	FP-14
P10	484+68	484+72	LT	18 16	FP-14
P10	484+87	485+01	RT	20	FP-14
P10	485+04	485+38	RT	36	FP-14
P11	513+49	513+60	LT	12	FP-15
P11	513+87	513+96	RT	11	FP-15
P11	514+04	514+12	RT	12	FP-15
P13	590+60	590+66	LT	11 13	FP-17
P13	590+75	590+80	LT	12 15	FP-17
P13	590+73	590+78	RT	8 10	FP-17
P13	590+83	590+88	RT	8 10	FP-17
TOTAL				404 415	LF

### 671(2) CHANNEL RECONSTRUCTION

SHEET	START		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
P1	221+32	51' LT	223+23	39' LT	231 224	FP-1
P2	230+49	38' RT	232+69	37' RT	223	FP-2 / FP-33
P2	233+21	37' RT	233+63	38' RT	42	FP-2 / FP-33
P3	239+75	127' LT	241+02	66' LT	201 200	FP-3
P4	246+61	41' RT	246+96	38' RT	35	FP-4
P6	319+33	35' RT	319+91	35' RT	60 58.3	FP-8
P14	189+85	83' LT	193+04	60' LT	345 350	SM-1
P15	525+29	143' RT	517+81	93' RT	650 597.5	SM-2
P16	594+46	92' RT	608+54	52' RT	1,382 1415 07	SM-3
TOTAL					3,169	LF
					3,144.87	

### 671(3) STREAM SIMULATION MATERIAL

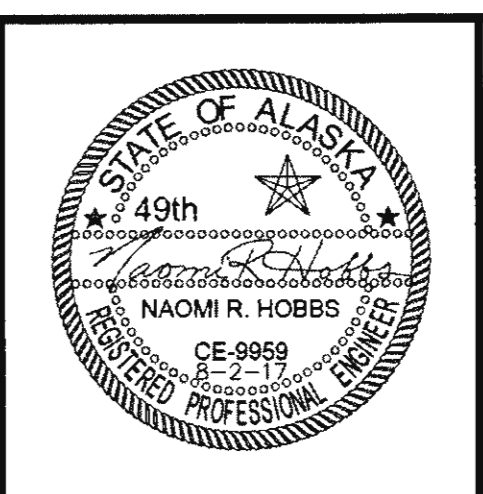
SHEET	PIPE ID	START STATION	END STATION	OFFSET	VOLUME (CY)				CLASS	REMARKS
					CHANNEL	BANK	CULVERT	TOTAL		
P2	FP-2 / FP-33	230+49	232+69	LT/RT	50		15	65	4	CHANNEL, CULVERT
P2	FP-2 / FP-33	233+21	233+63	RT	9			9	4	CHANNEL
P3	FP-3	241+80	241+38	LT/RT	102		27	129	4	CHANNEL, CULVERT
P4	FP-4	246+35	246+48	LT/RT	8	44	12	64	4	CHANNEL, BANK, CULVERT
P5	FP-34	245+89	245+66	LT/RT			6	6	4	CULVERT
P6	FP-8	319+33	320+35	RT	17	132	17	166	4	CHANNEL, CULVERT, BANK
P7	FP-9	325+84	325+84	LT/RT		66	38	104	3	BANK, CULVERT
P9	FP-12	383+17	383+25	RT		30		30	4	BANK
P10	FP-14	484+96	484+60	LT/RT		266	88	354	4	BANK, CULVERT
P11	FP-15	513+97	513+68	LT/RT		70	86	156	2	BANK, CULVERT
P13	FP-17	590+80	590+71	LT/RT		70	47	117	1	BANK, CULVERT
P14	SM-1	189+85	193+04	LT	52			52	4	CHANNEL
P15	SM-2	525+29	517+81	RT	96			96	4	CHANNEL
P16	SM-3	594+46	608+54	RT	563			563	2	CHANNEL
CLASS 1 SUBTOTAL					0	70	47	117	CY	
CLASS 2 SUBTOTAL					563	70	86	719	CY	
CLASS 3 SUBTOTAL					0	66	38	104	CY	
CLASS 4 SUBTOTAL					334	472	165	971	CY	
TOTAL					897	678	336	1,911	CY	
TOTAL							13.95	1,294.71		

CO#5

### 671(6) CHANNEL EXCAVATION

SHEET	START		END		LENGTH (LF)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
P5	247+10	61' LT	249+48	35' LT	249 255.5	FP-5
P12	530+28	73' LT	532+27	39' LT	242 214	FP-16
TOTAL					491	LF
					469.5	

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AEC1848



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

## HAINES HIGHWAY RECONSTRUCTION MILEPOST 3.9 TO 12.2

### MISCELLANEOUS SUMMARIES

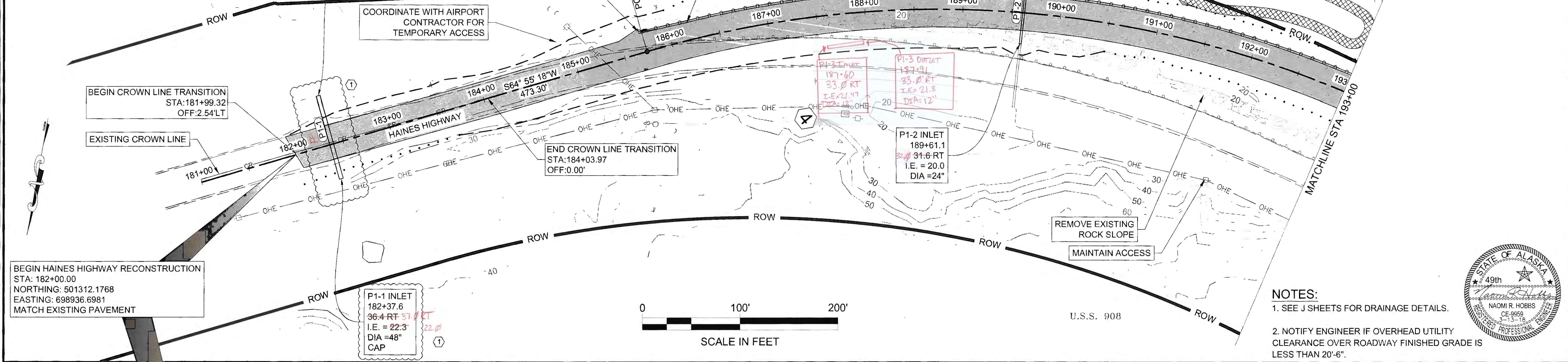
JTW 8-25-20

F:\RM DOWL  
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 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DATE 3/13/2018 11:40 LAYOUT F1  
 CHECKED S. NOBLE  
 DESIGNED N. HOBBS  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH. #: AECL848

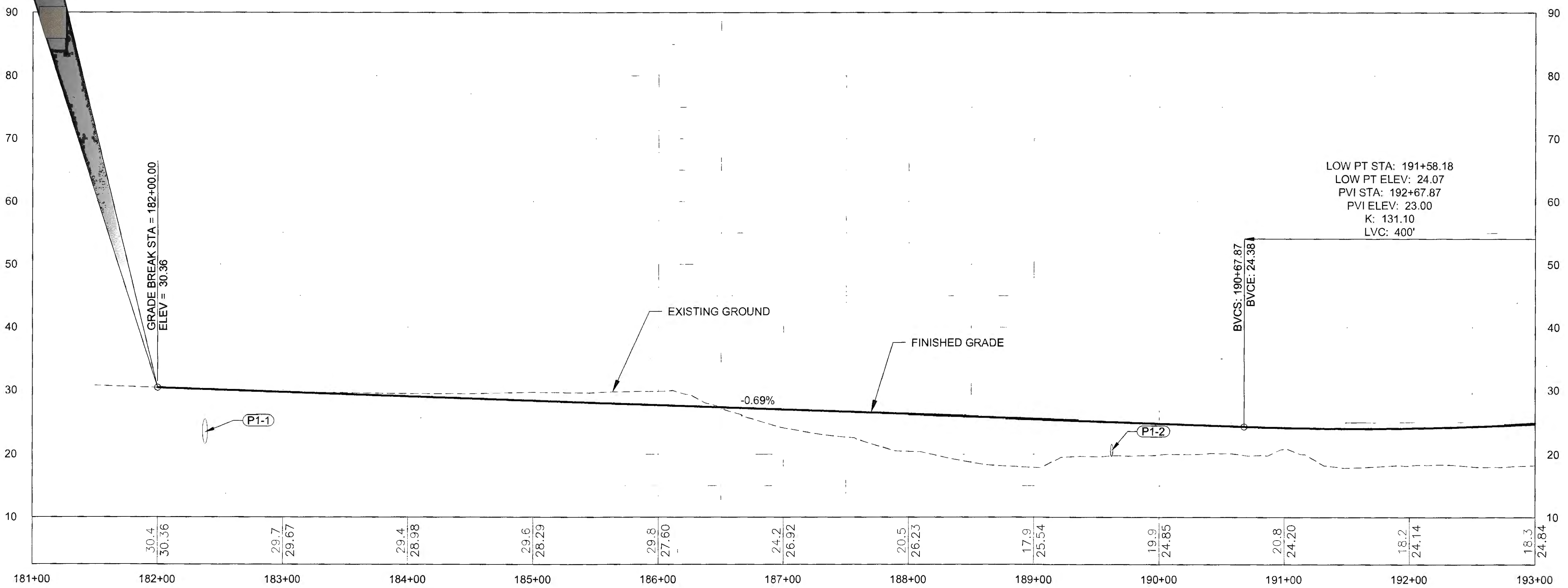
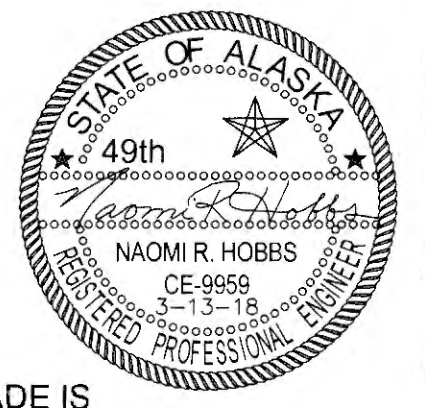
P1-1 HYDROLOGIC & HYDRAULIC SUMMARY				
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	5.0	23.13	0.21
50%	2	13	23.70	0.36
2%	50	35	24.74	0.61
1%	100	39	24.91	0.66

DRAINAGE AREA = 0.115 SQ MI (73.6 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 134 CFS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
①	3-12-2018	REVISED P1-1	ALASKA	0965(035)/SFHWY00126	2017	F1	162



**NOTES:**  
 1. SEE J SHEETS FOR DRAINAGE DETAILS.  
 2. NOTIFY ENGINEER IF OVERHEAD UTILITY CLEARANCE OVER ROADWAY FINISHED GRADE IS LESS THAN 20'-6".

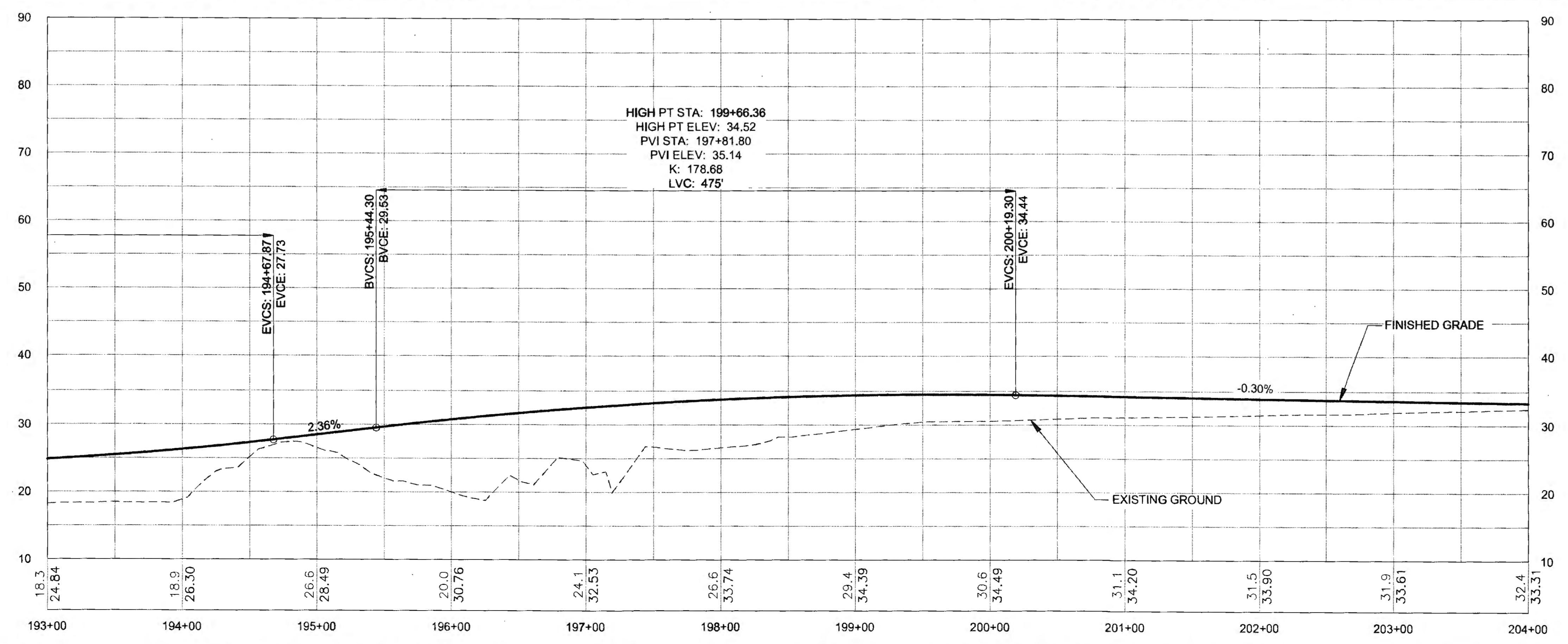
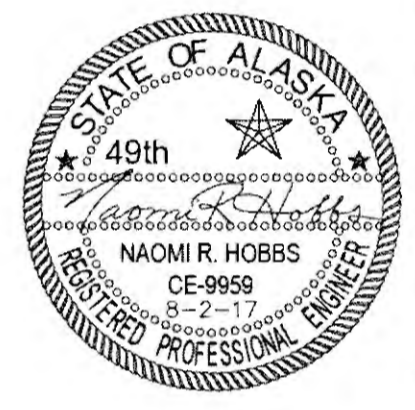
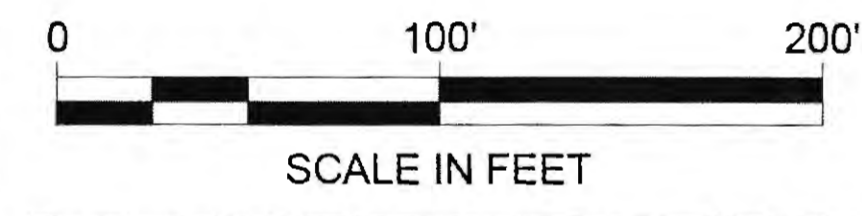
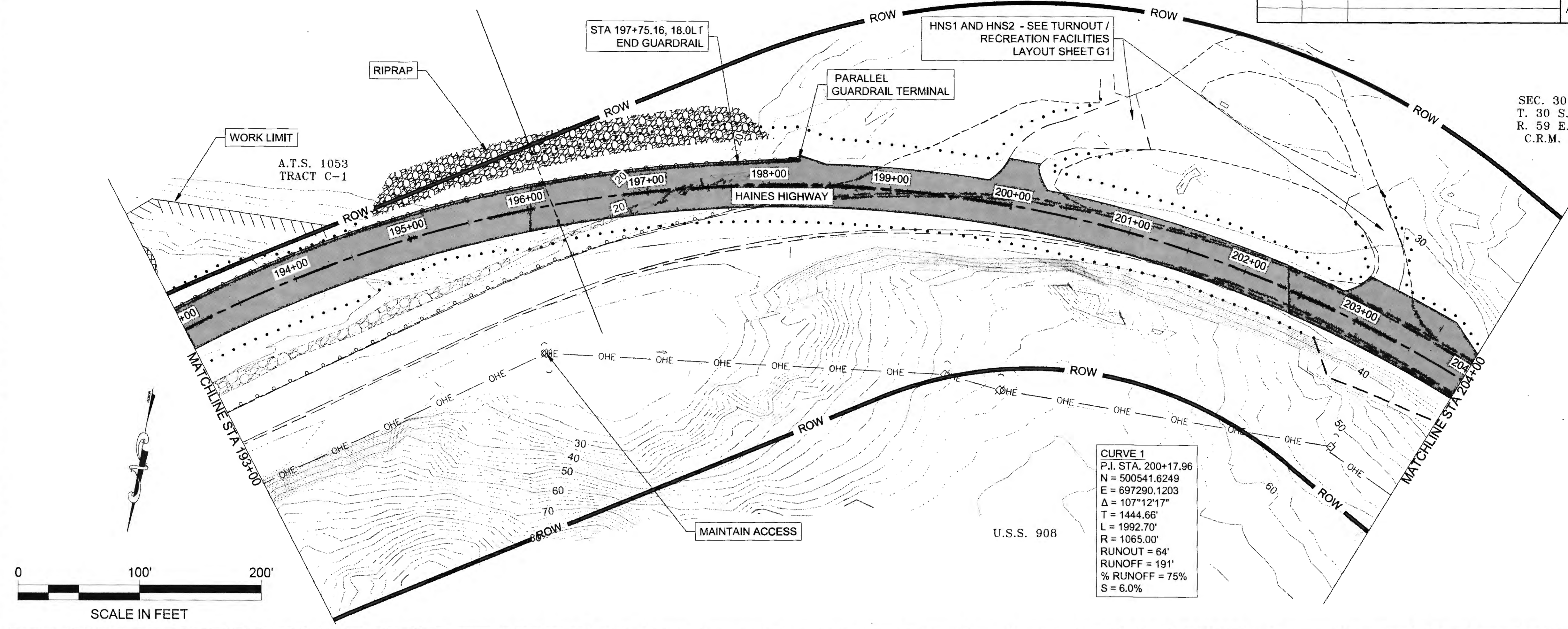


TKW 4-20-21

FIRM: DOWL  
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 8/2/2017, 10:18 LAYOUT: F2  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. TYLER  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F2	162

SEC. 30  
 T. 30 S.  
 R. 59 E.  
 C.R.M.

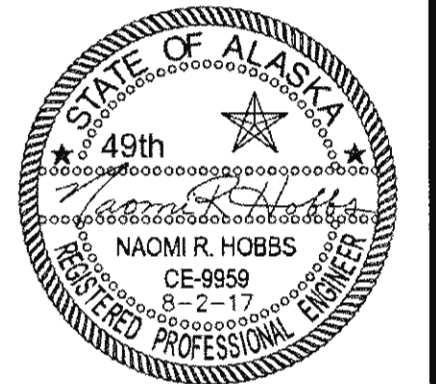
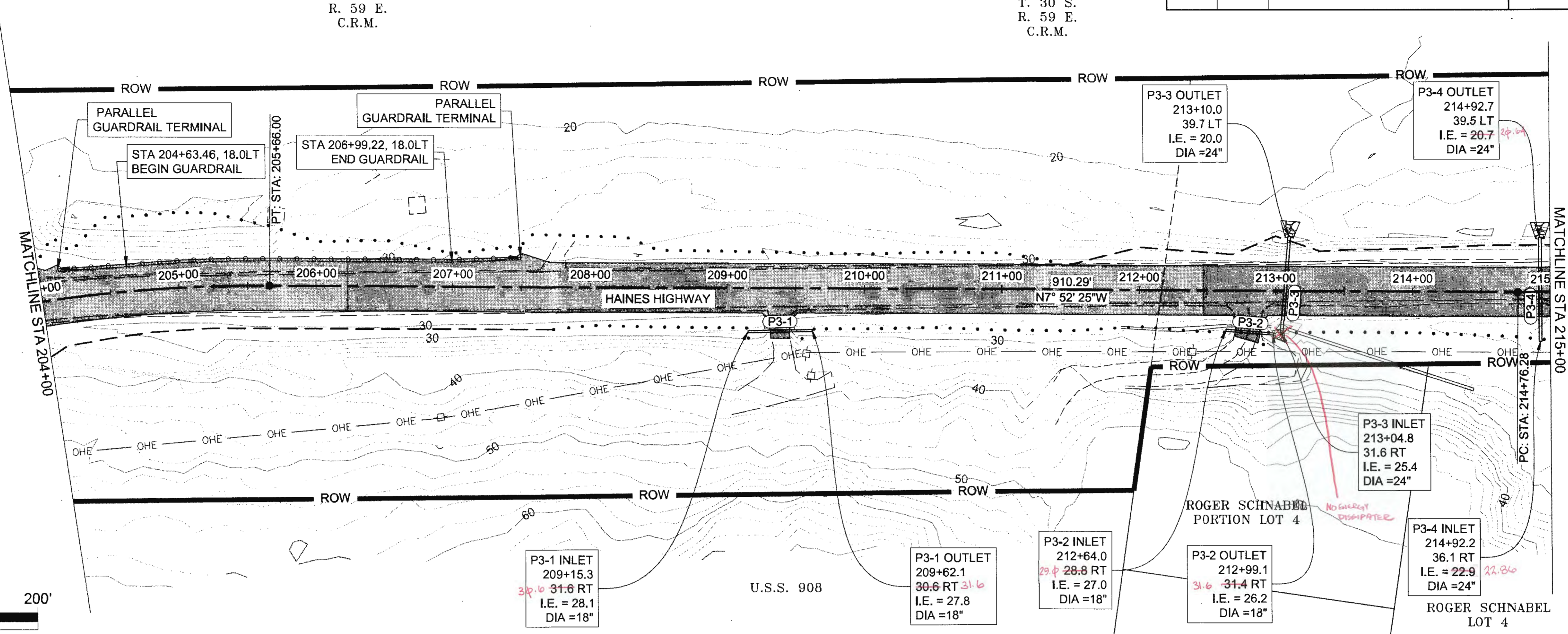


JW 6-25-20

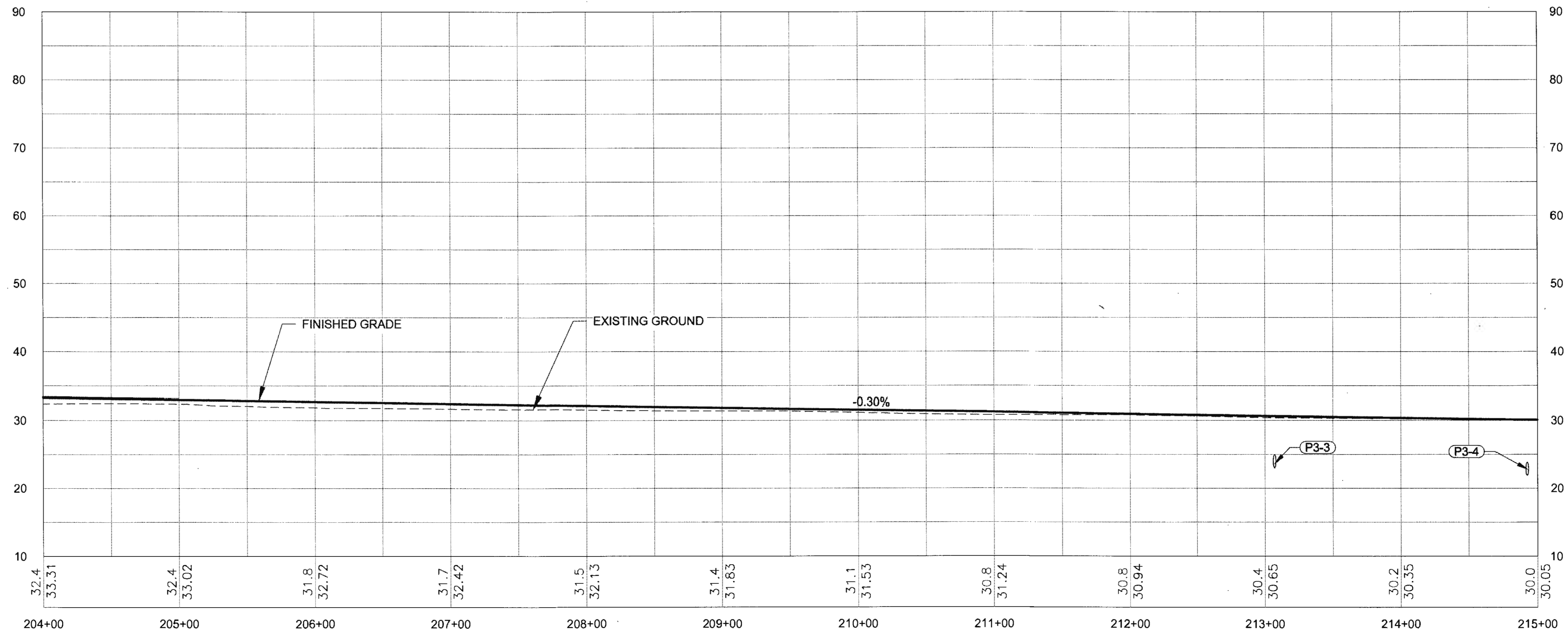
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F3	162

SEC. 30  
T. 30 S.  
R. 59 E.  
C.R.M.

SEC. 19  
T. 30 S.  
R. 59 E.  
C.R.M.



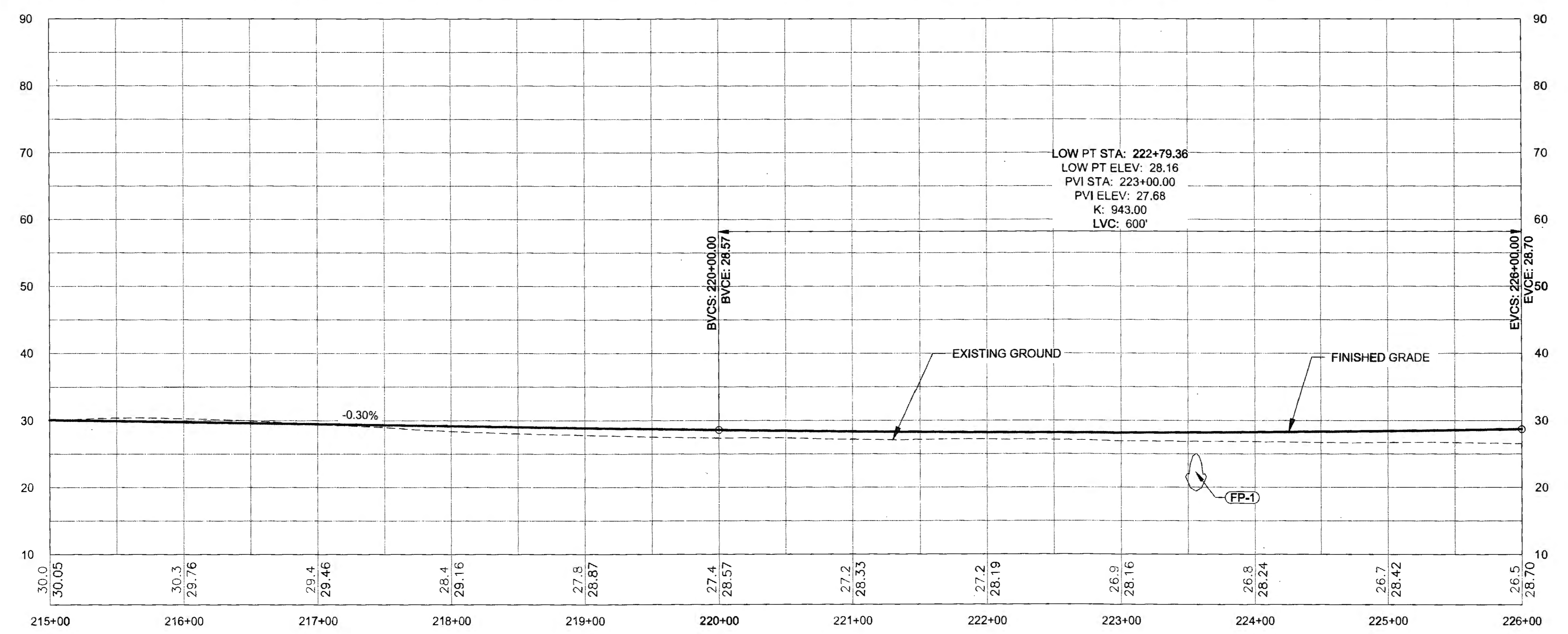
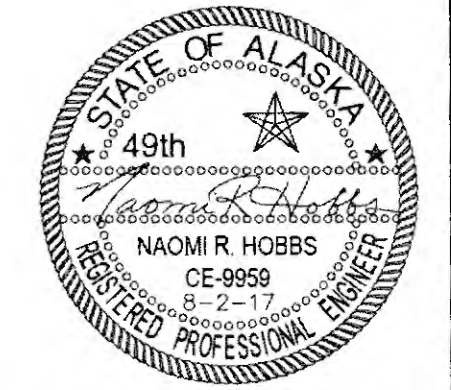
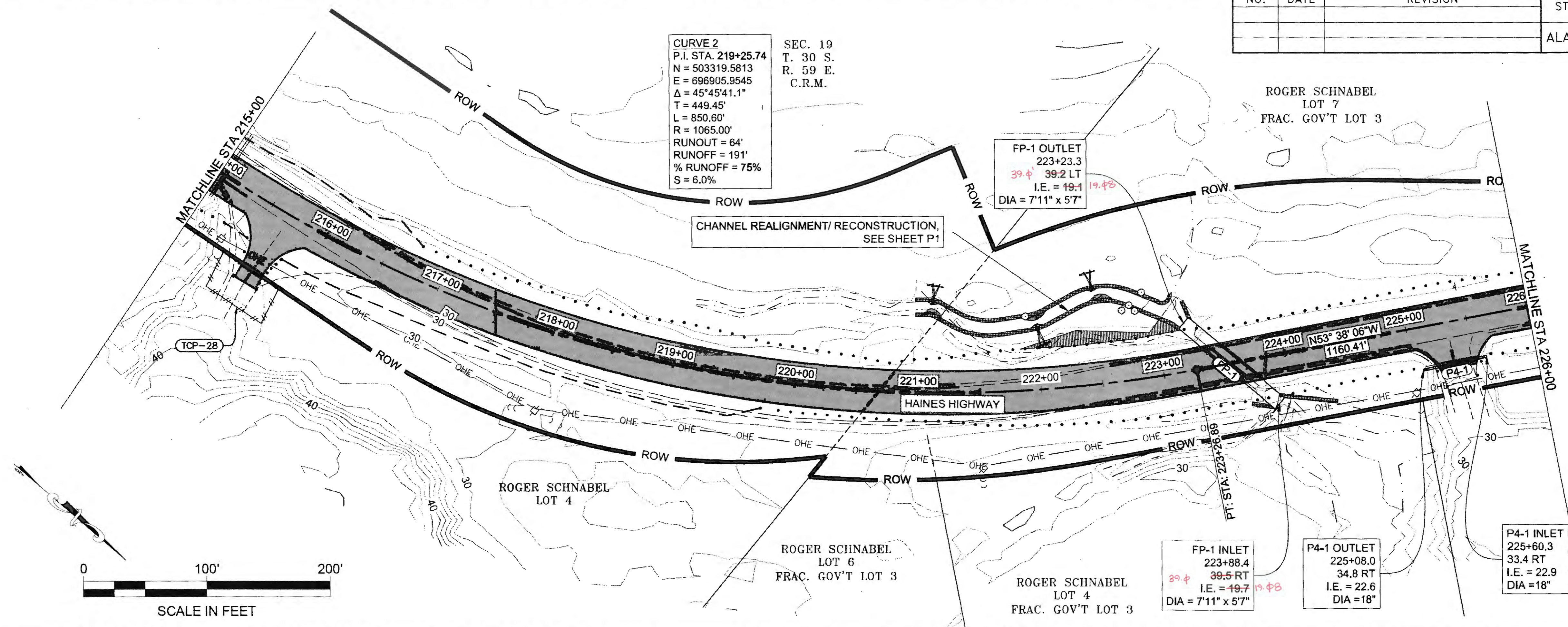
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 8/3/2017 10:18  
 LAYOUT: F3  
 CERTIFICATE OF AUTH #1: AECLB48  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER



7/20 6-25-20

F:\RM\DWL  
 FILE: q:\24\1850-01\55CAD\mp\_3-12\_pse\F\_SHEET\SV\F1-F20.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 8/3/2017 10:18  
 LAYOUT: F4  
 CERTIFICATE OF AUTH #1 AEL848  
 S. TYLER

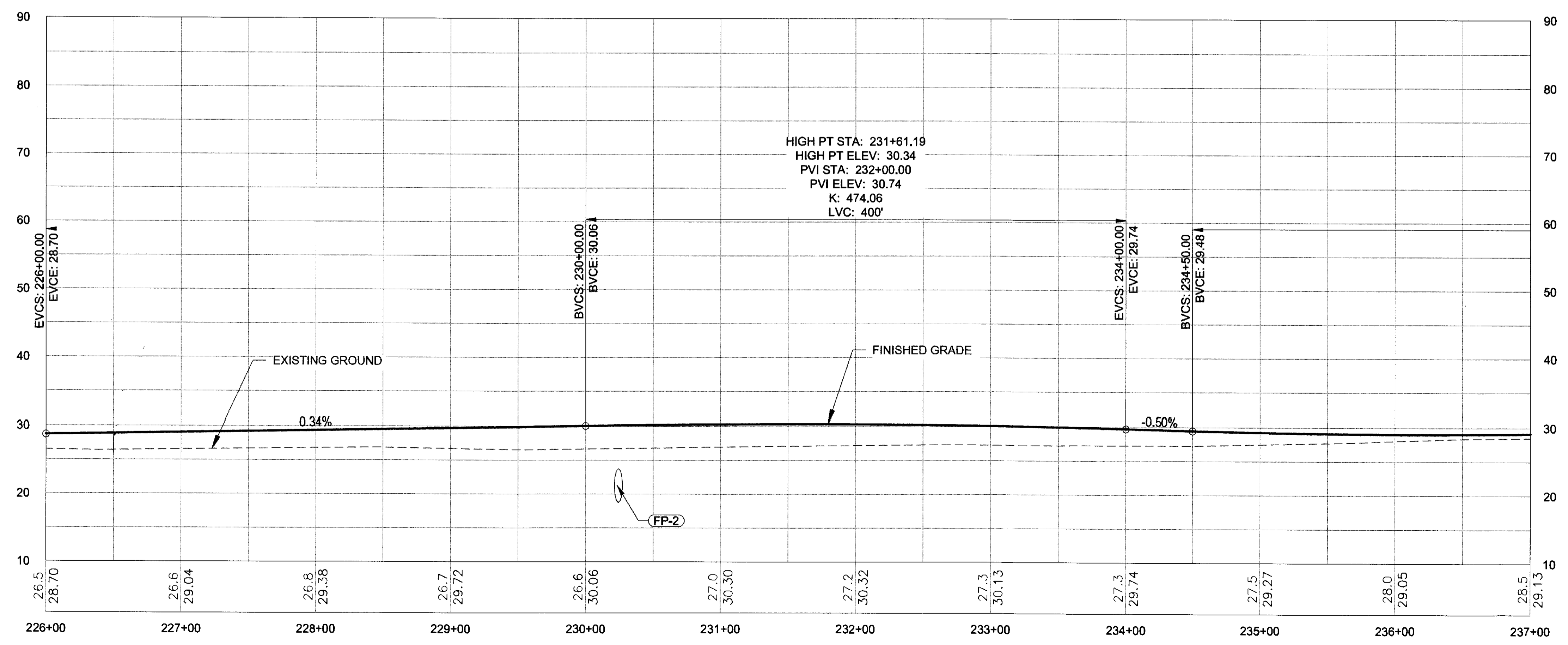
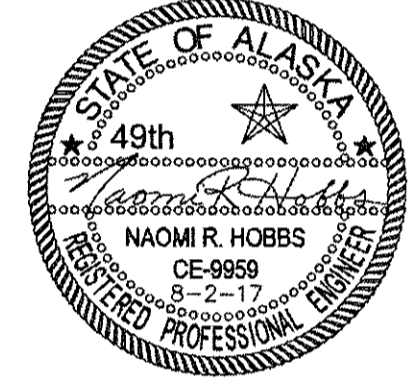
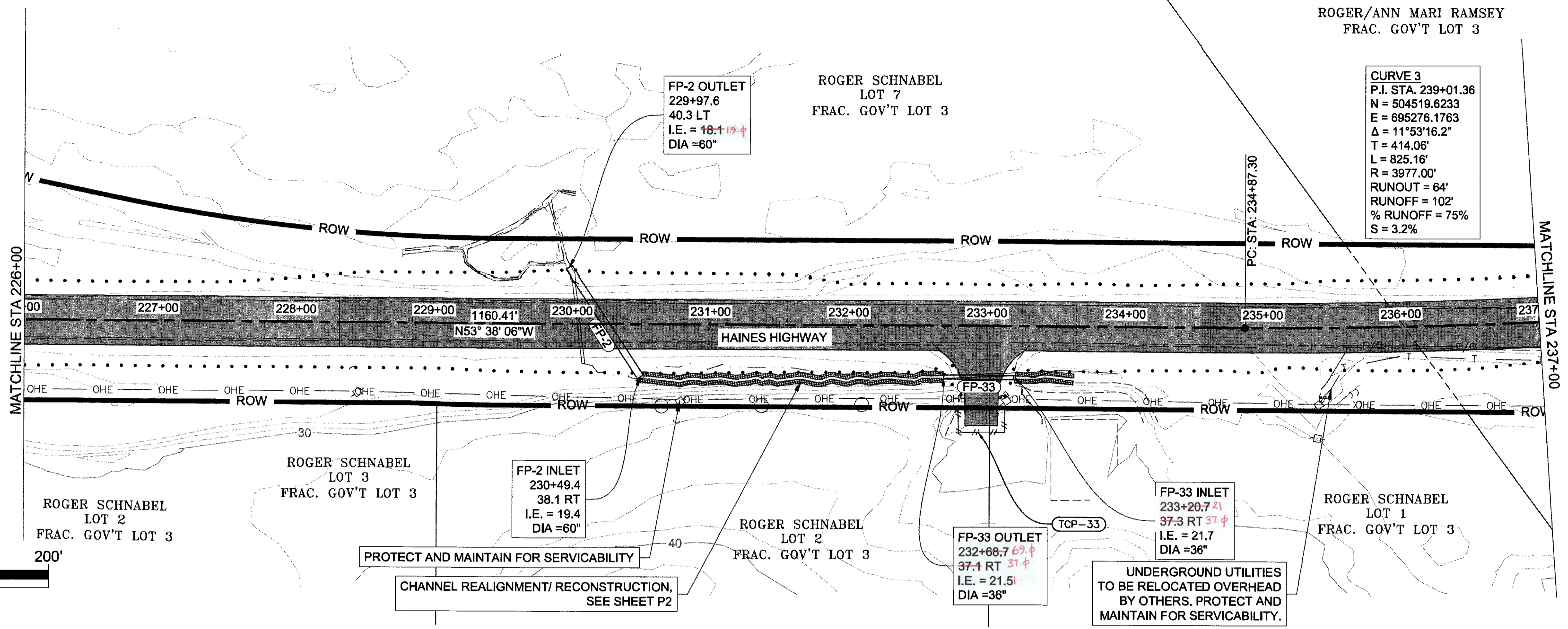
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F4	162



TRW 6-05-00

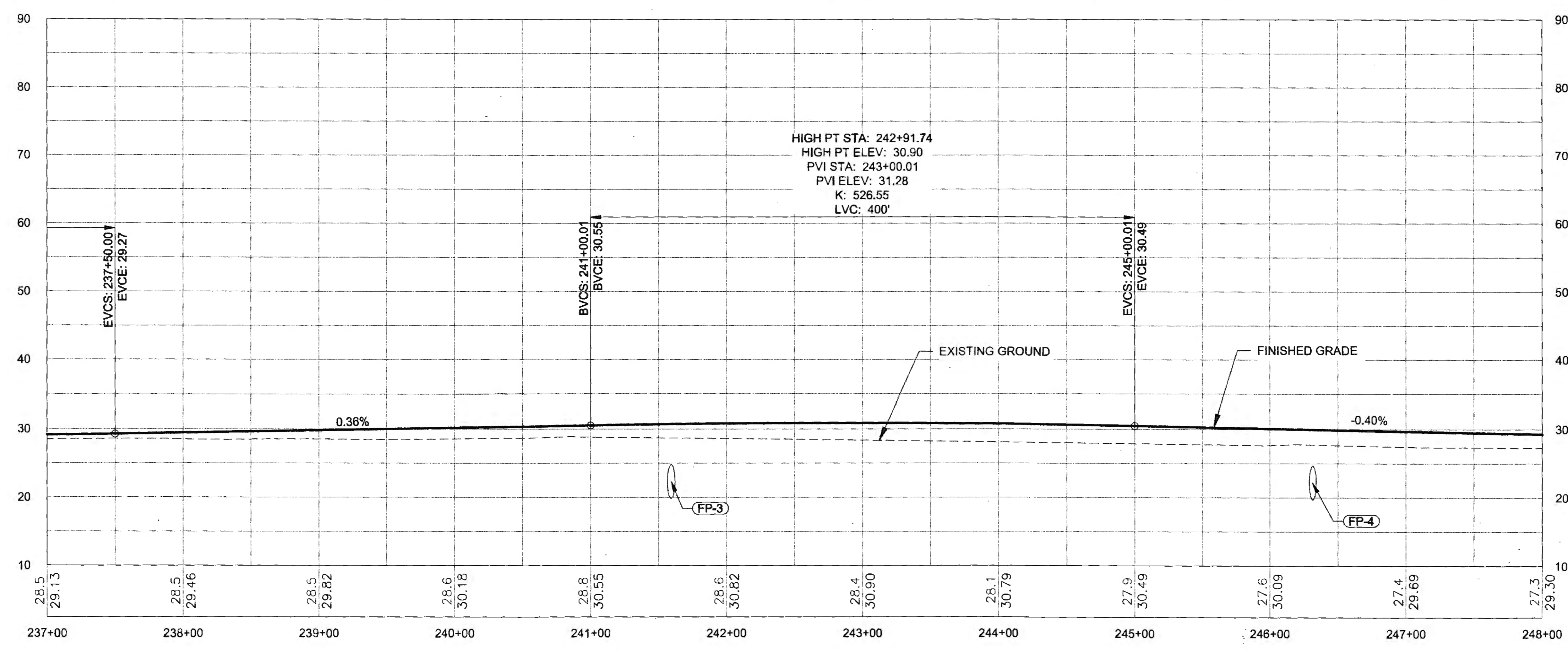
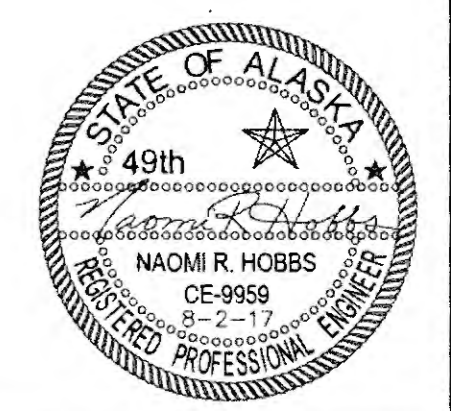
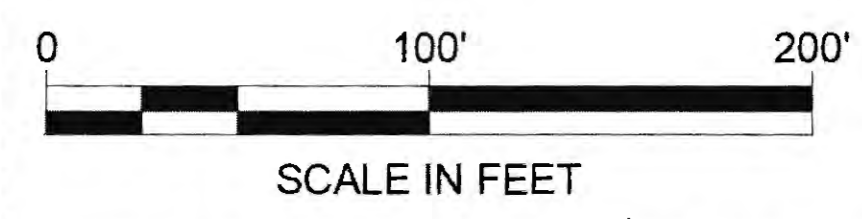
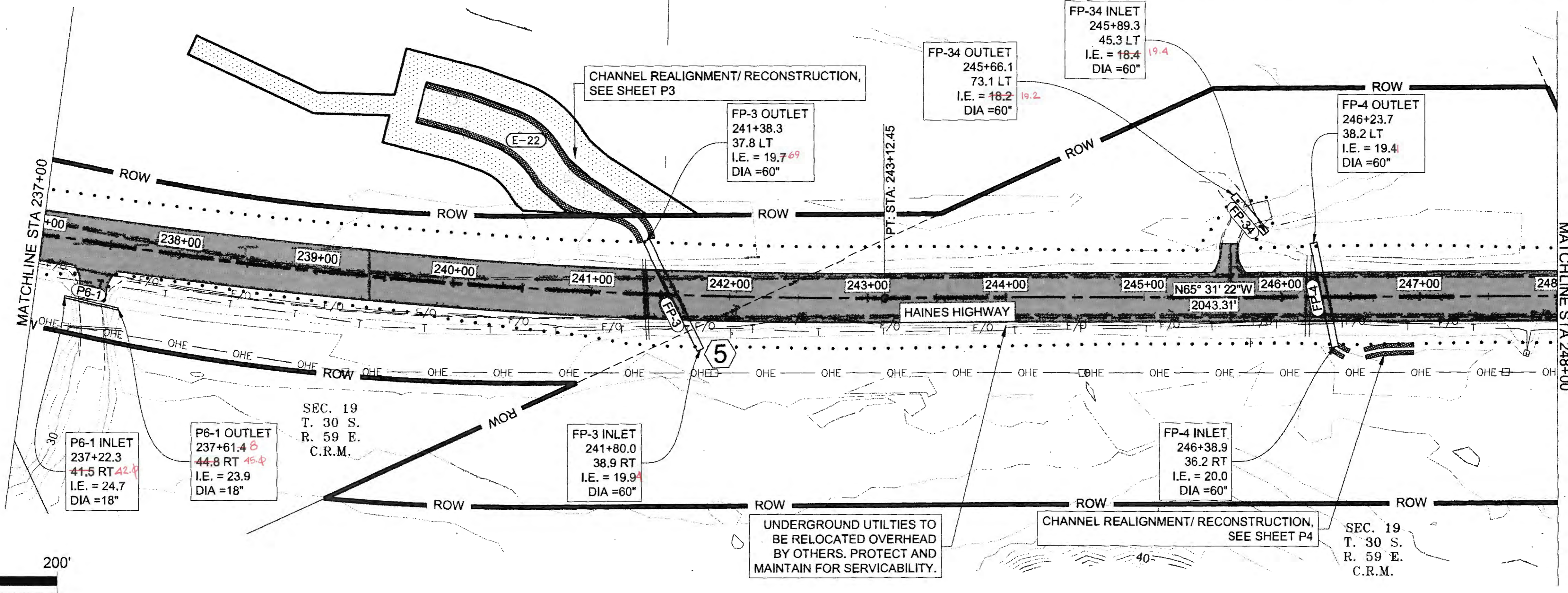
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F5	162

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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 8/3/2017 10:18  
 LAYOUT: F5



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F6	162

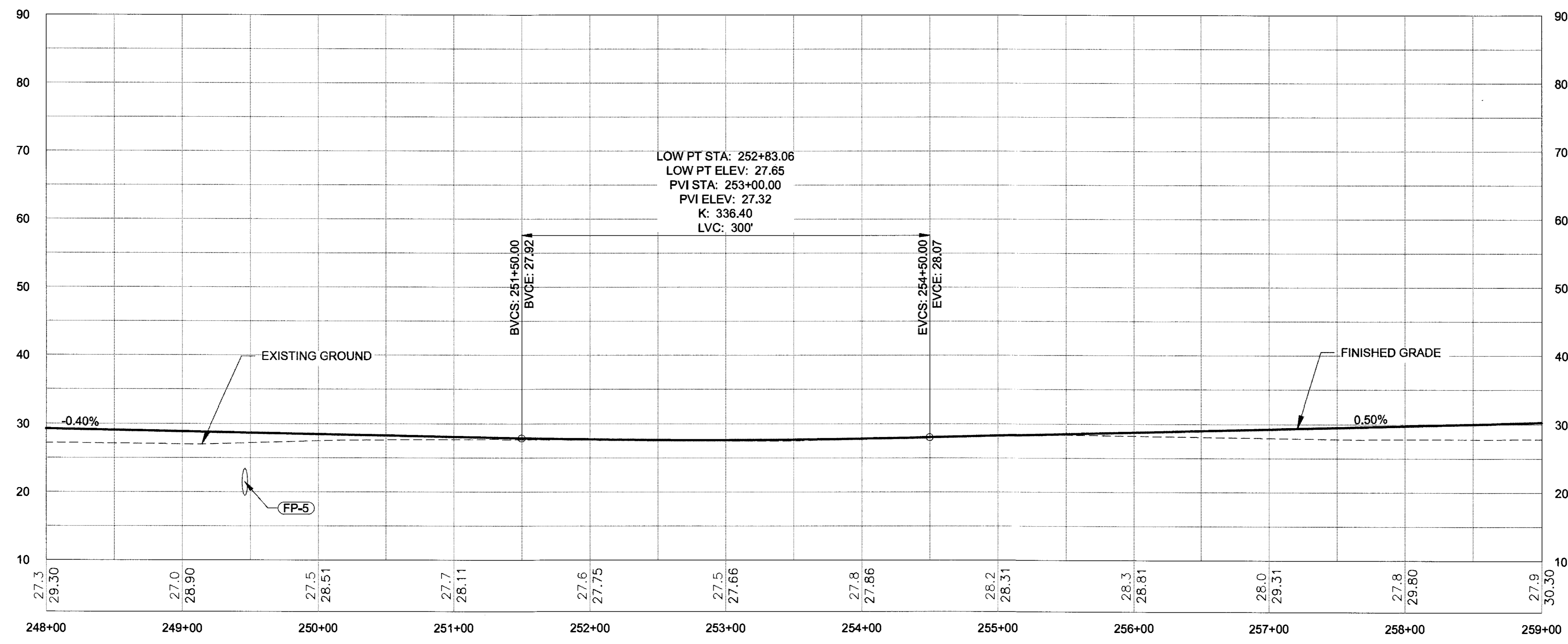
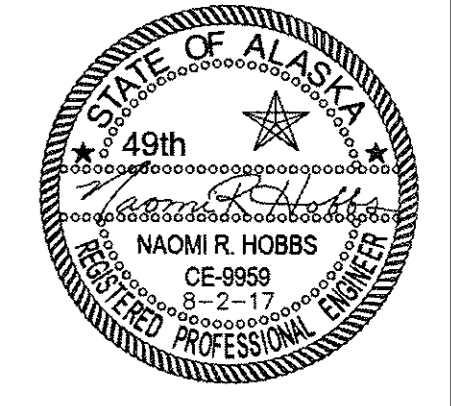
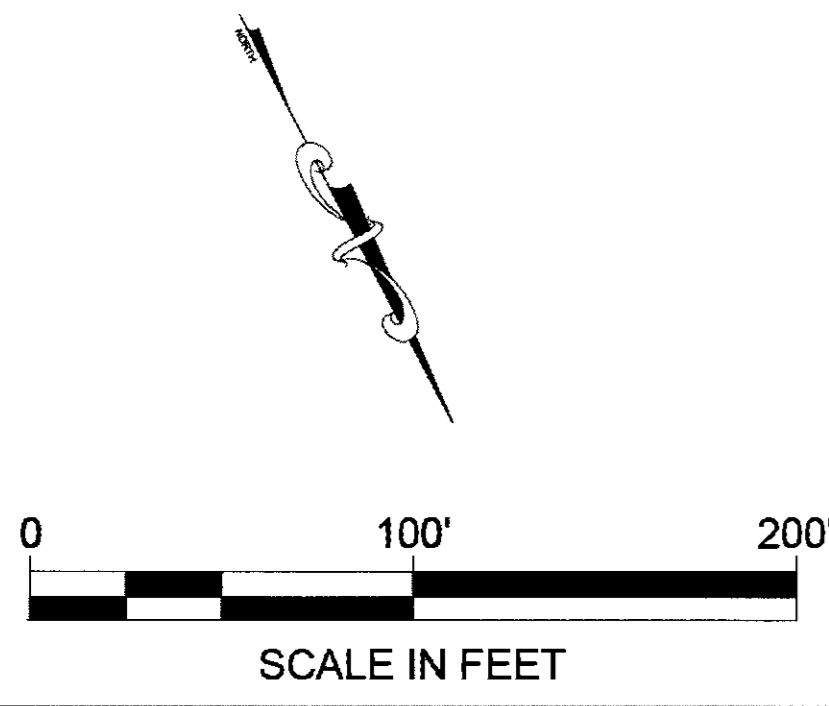
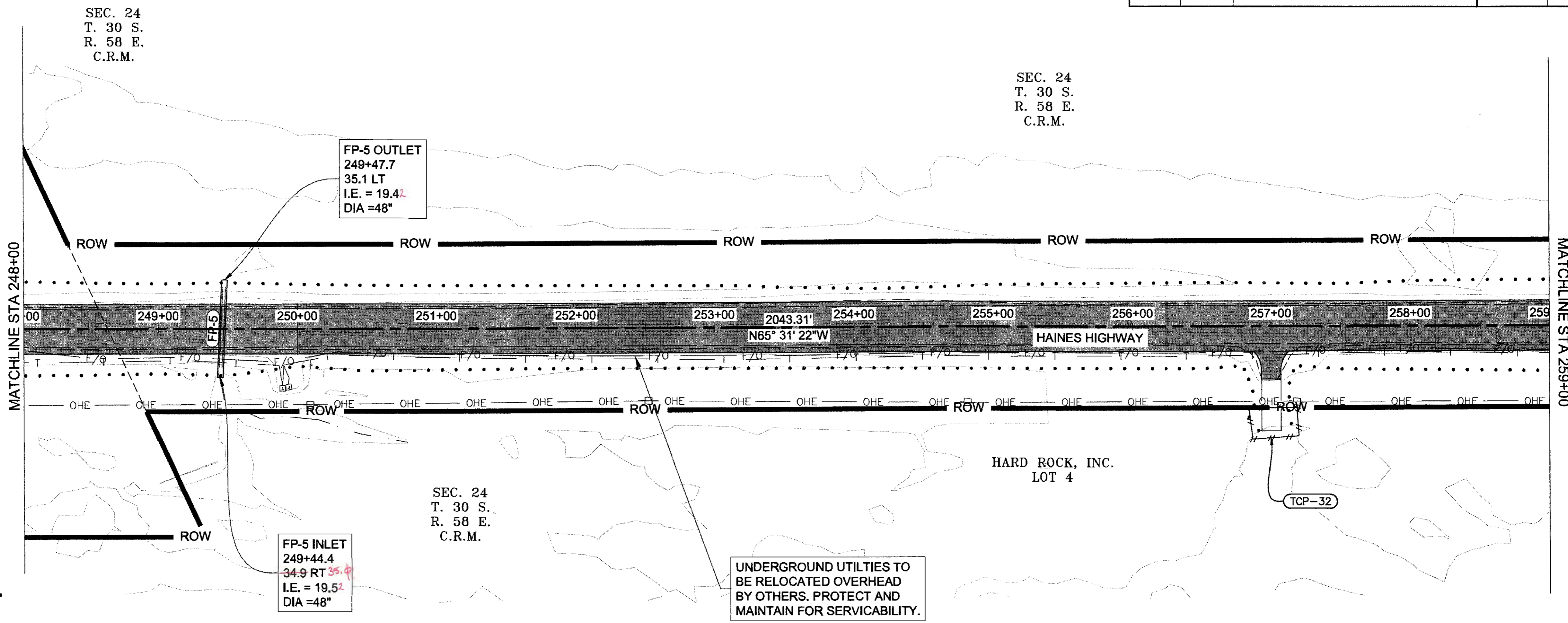
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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE 8/3/2017 10:18 LAYOUT F6  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. TYLER  
 CERTIFICATE OF AUTH # AELB48  
 DRAFTED S. TYLER



TAs 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F7	162

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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 8/3/2017 10:18  
 LAYOUT: F7  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #: AECLB48

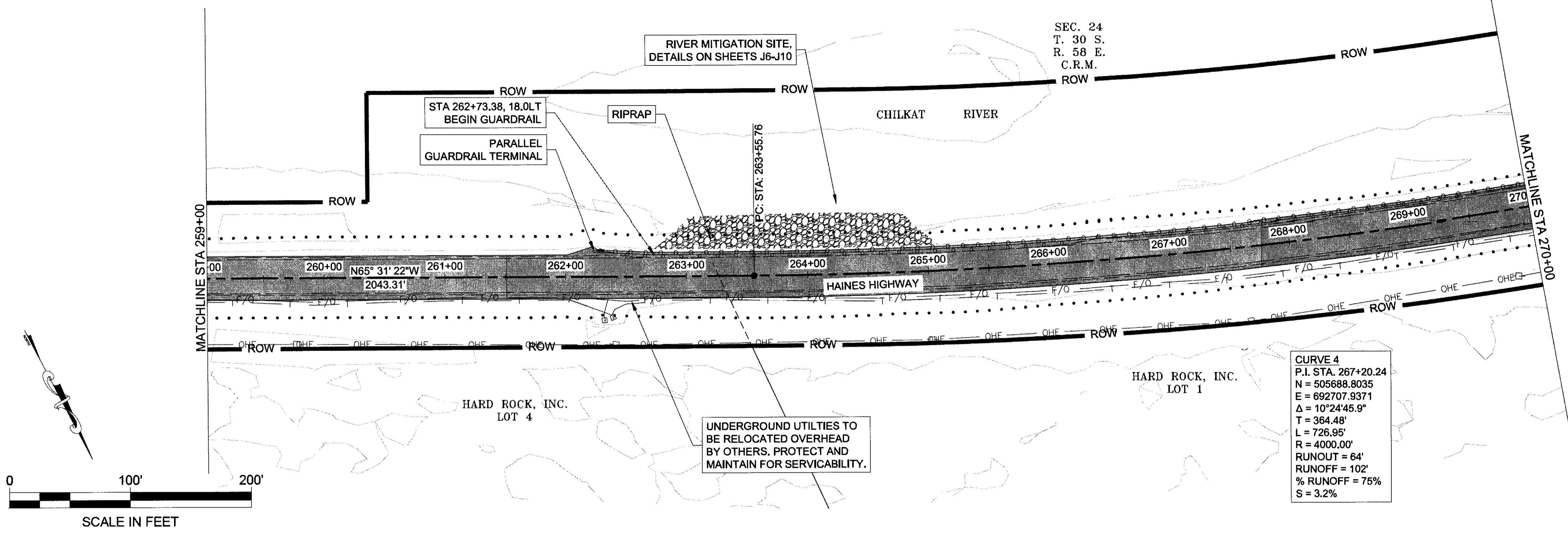


JAN 1-25-20

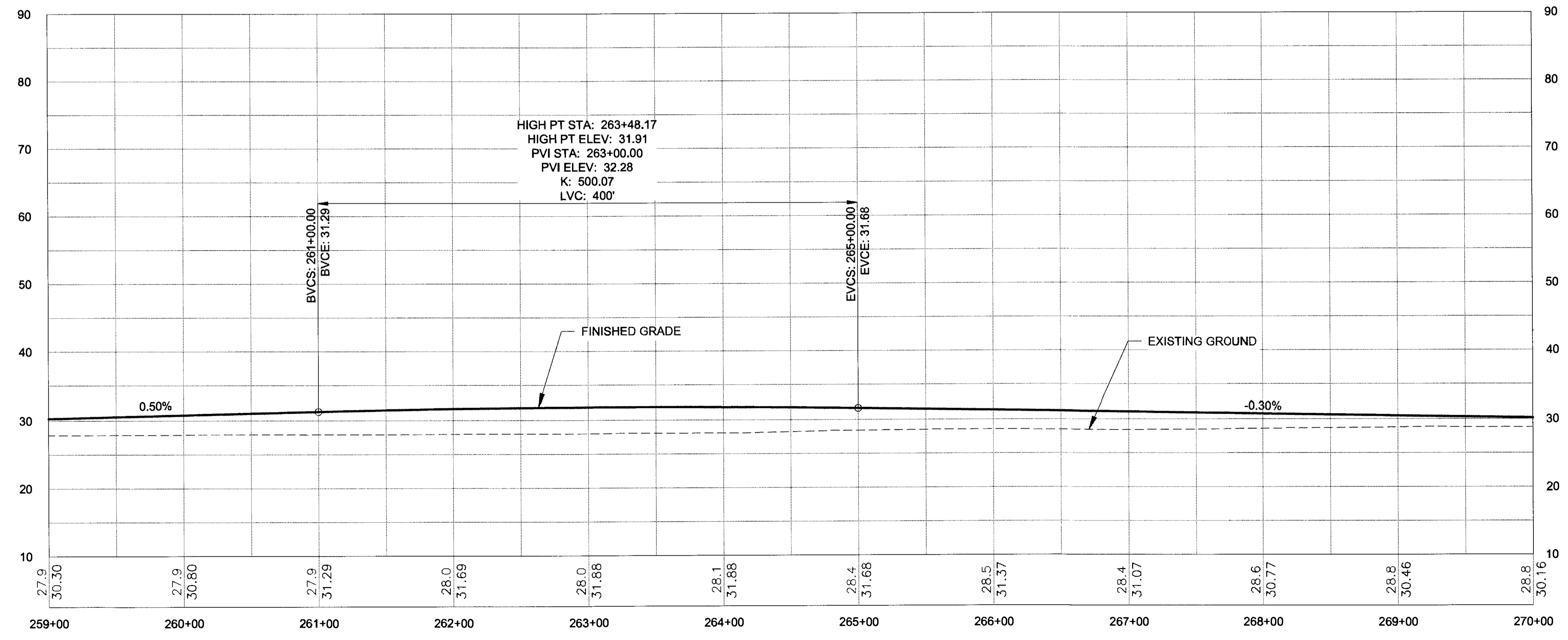
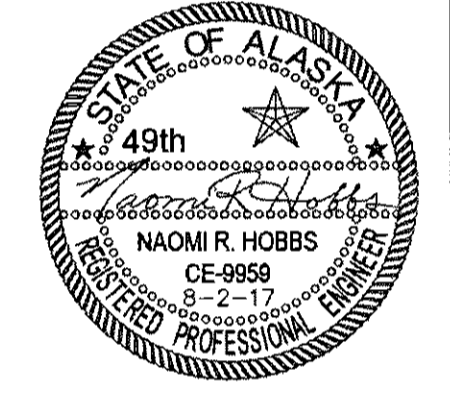


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F8	162

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 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 8/23/2017 10:18 LAYOUT FB  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. TYLER  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH #1: AECCL848



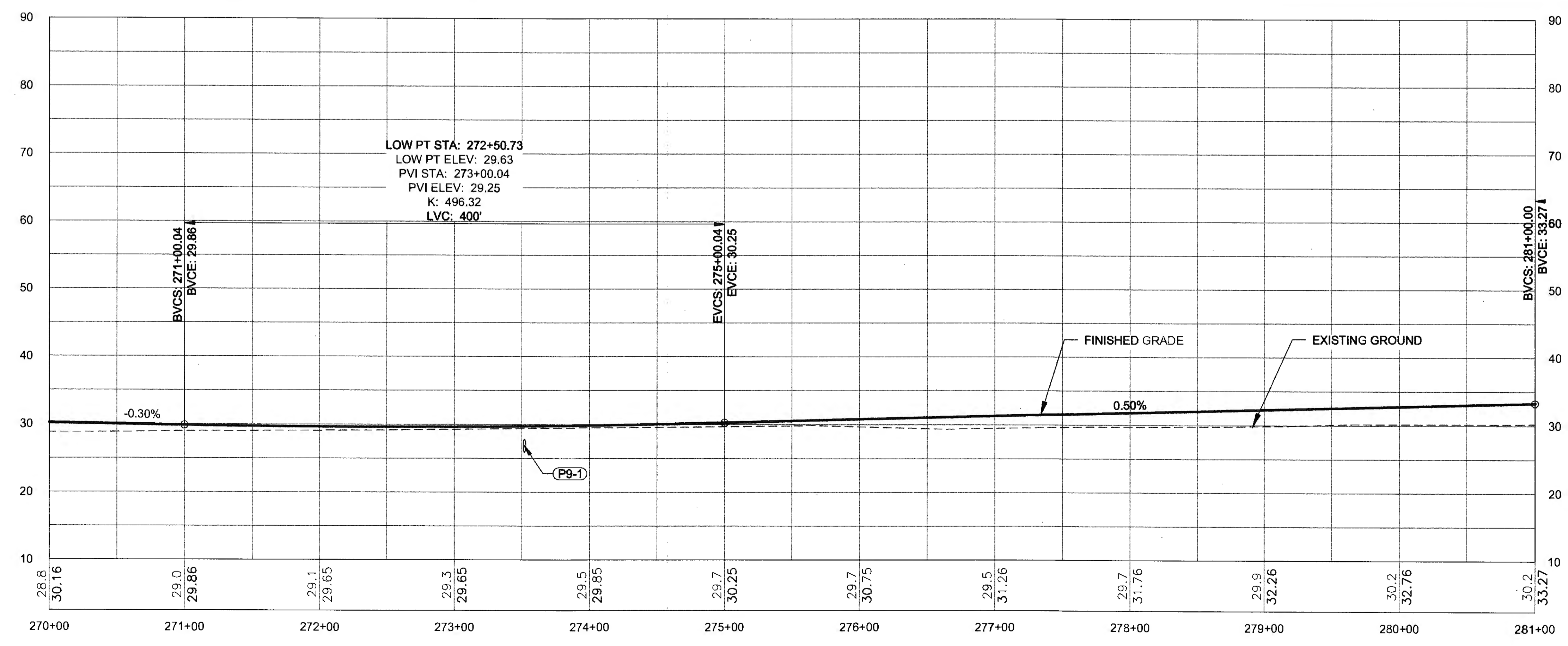
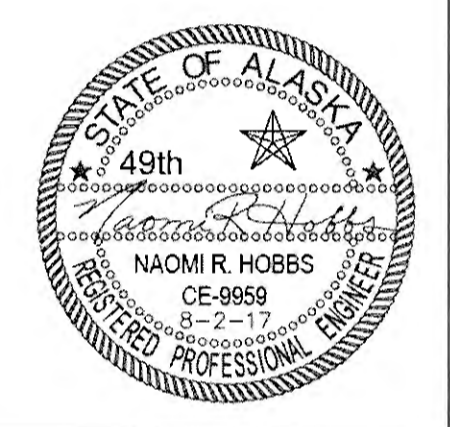
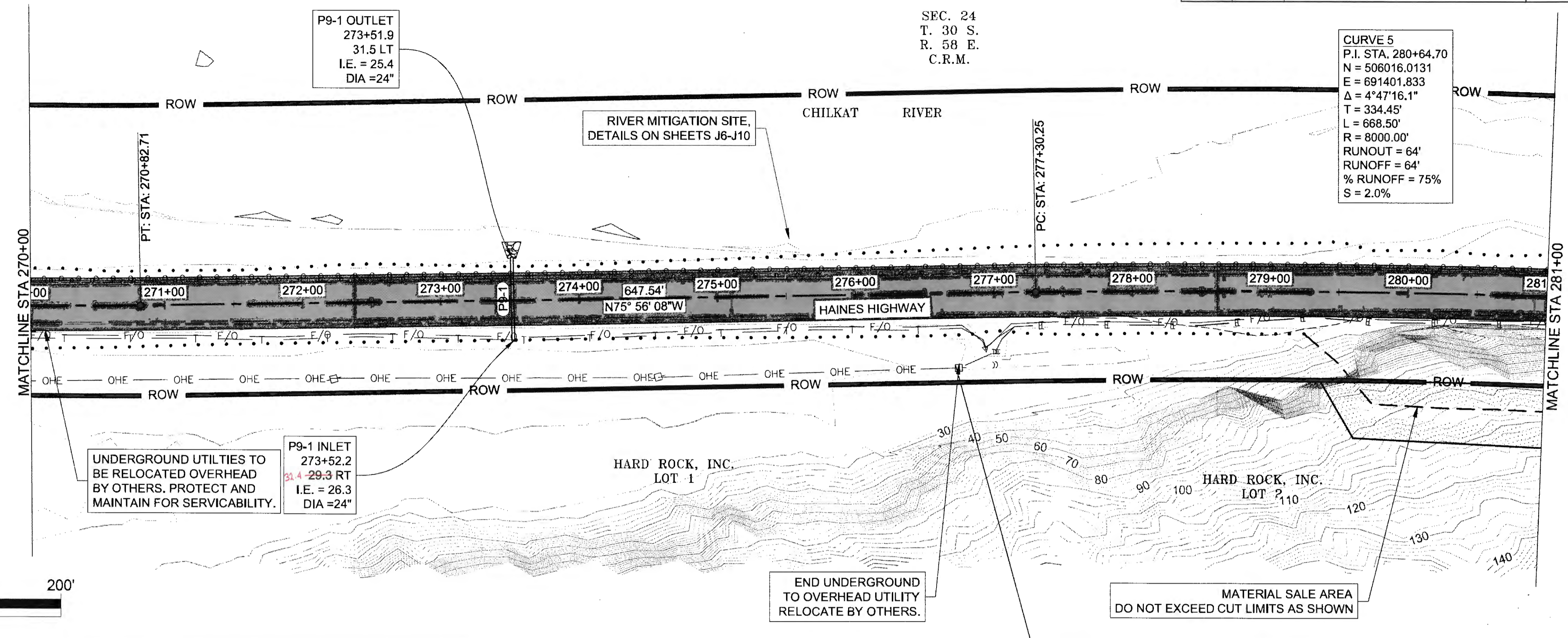
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 E = 692707.9371  
 $\Delta = 10^{\circ}24'45.9''$   
 T = 364.48'  
 L = 726.95'  
 R = 4000.00'  
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 % RUNOFF = 75%  
 S = 3.2%



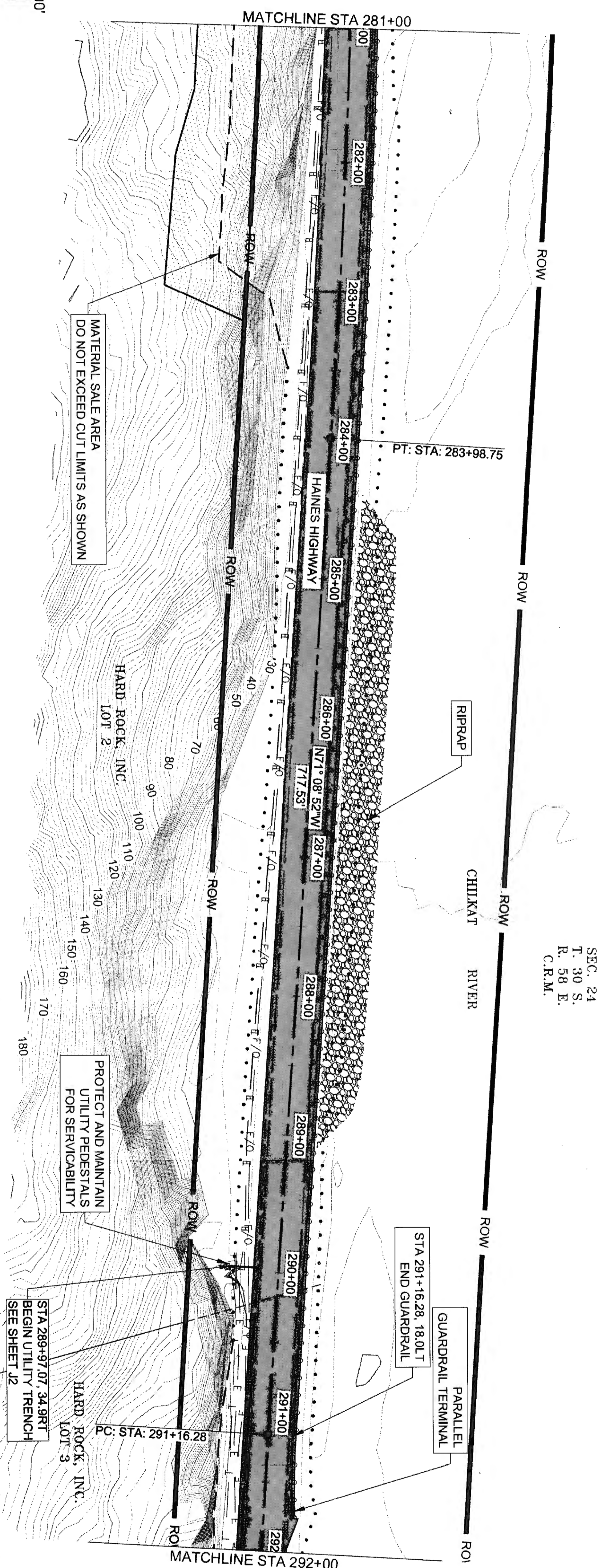
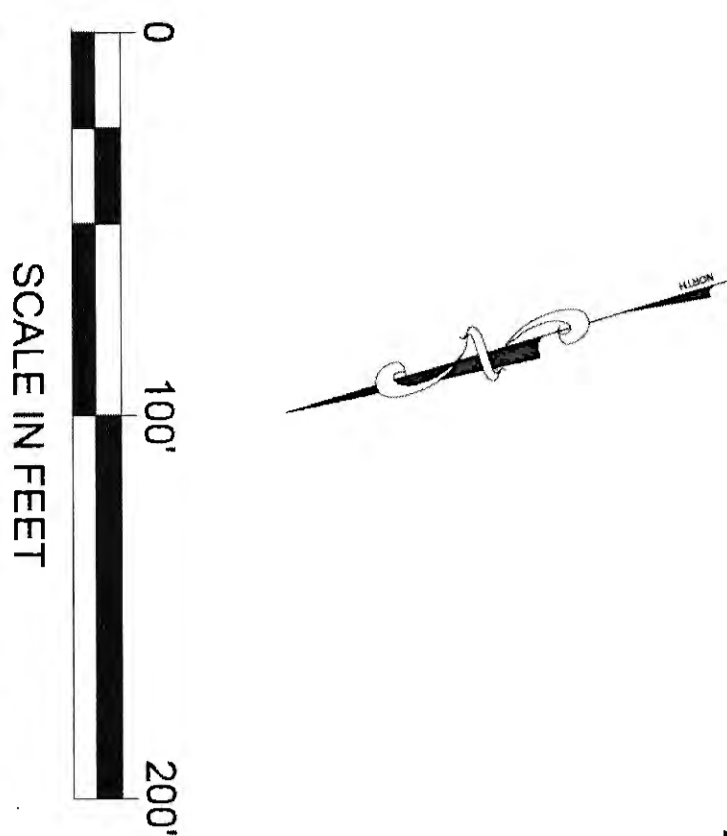
TBLS 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F9	162

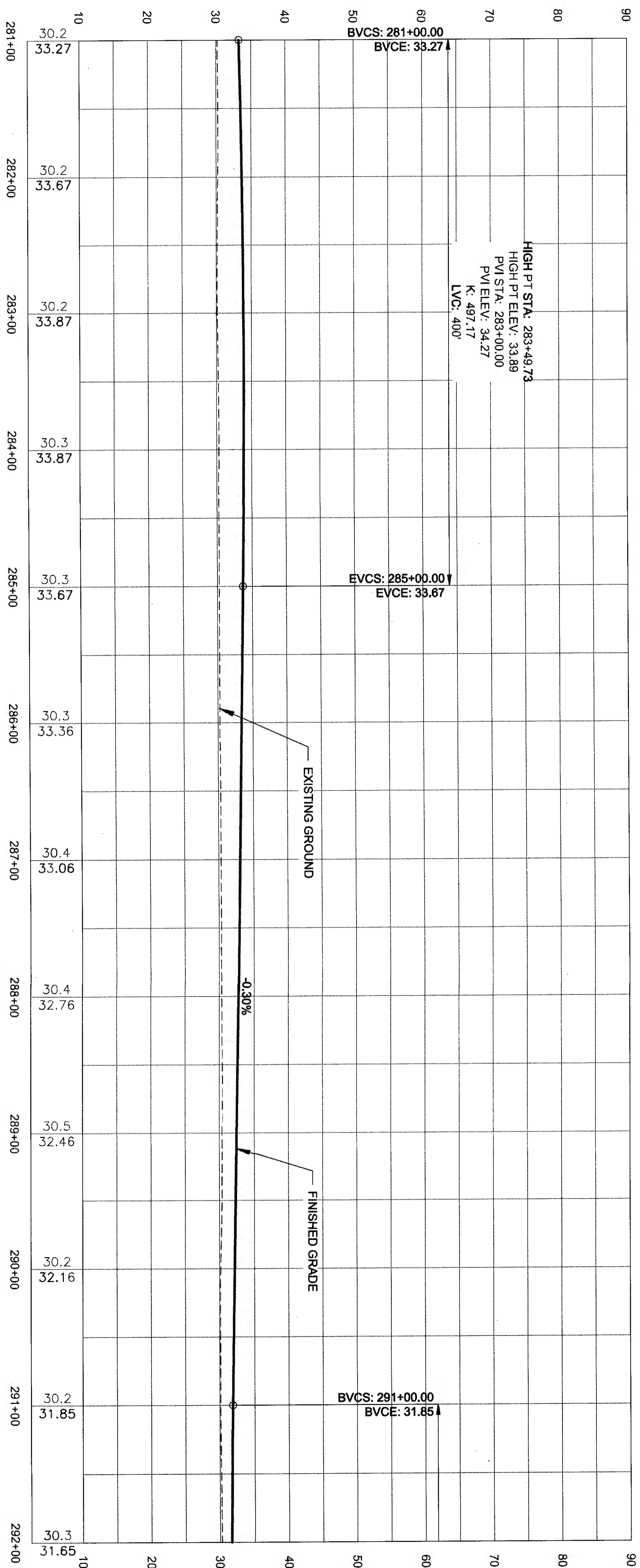
FIRM: DOWL  
 ADDRESS: 5388 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 8/3/2017 10:18  
 LAYOUT: F9  
 FILE: q:\24\61850-01\650AD\mp\_3-12\_pse\F\_SHEETS\F1-F20.dwg



Tkew 6-25-20



SEC. 24  
T. 30 S.  
R. 58 E.  
C.R.M.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F10	162



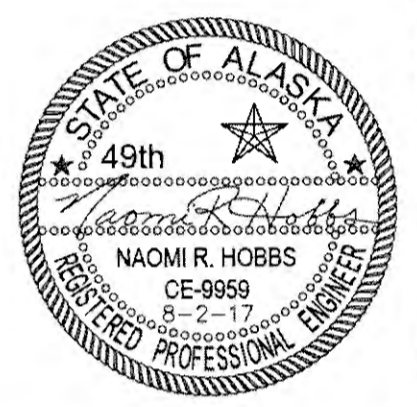
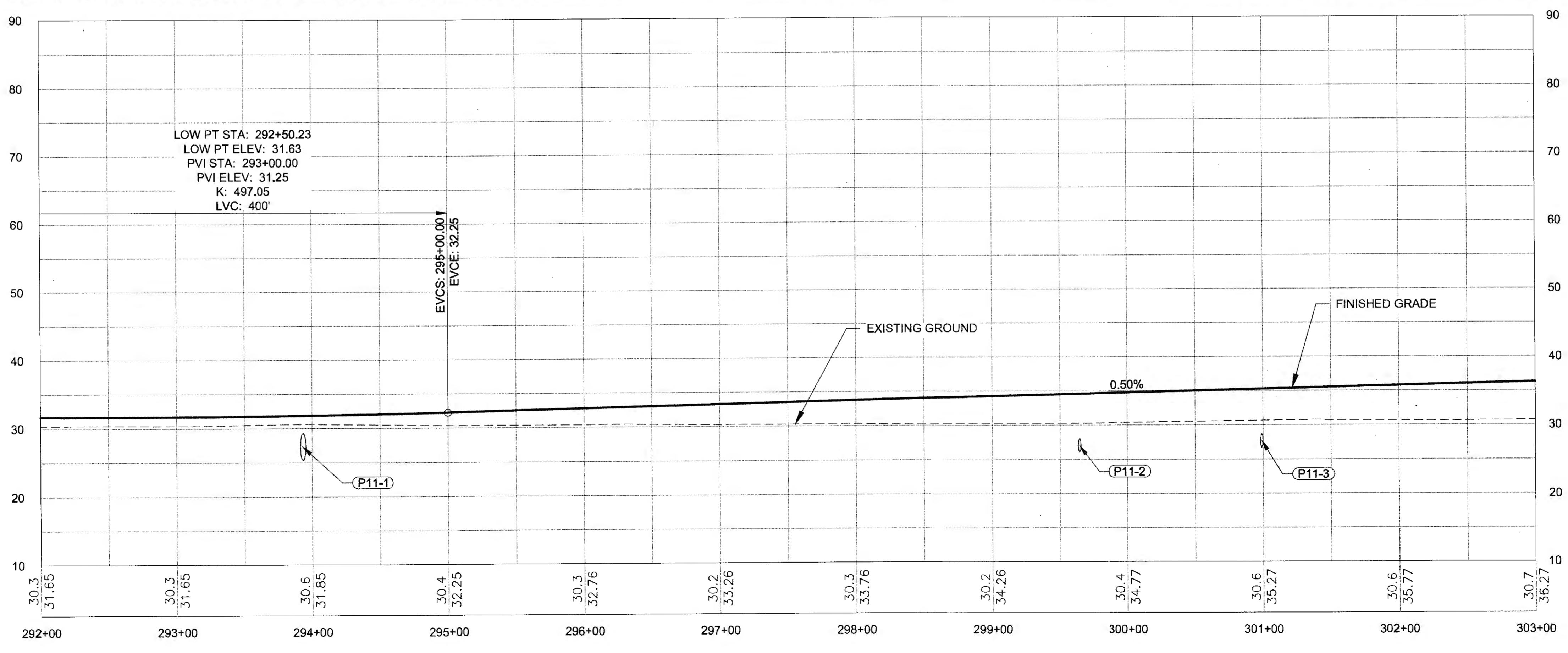
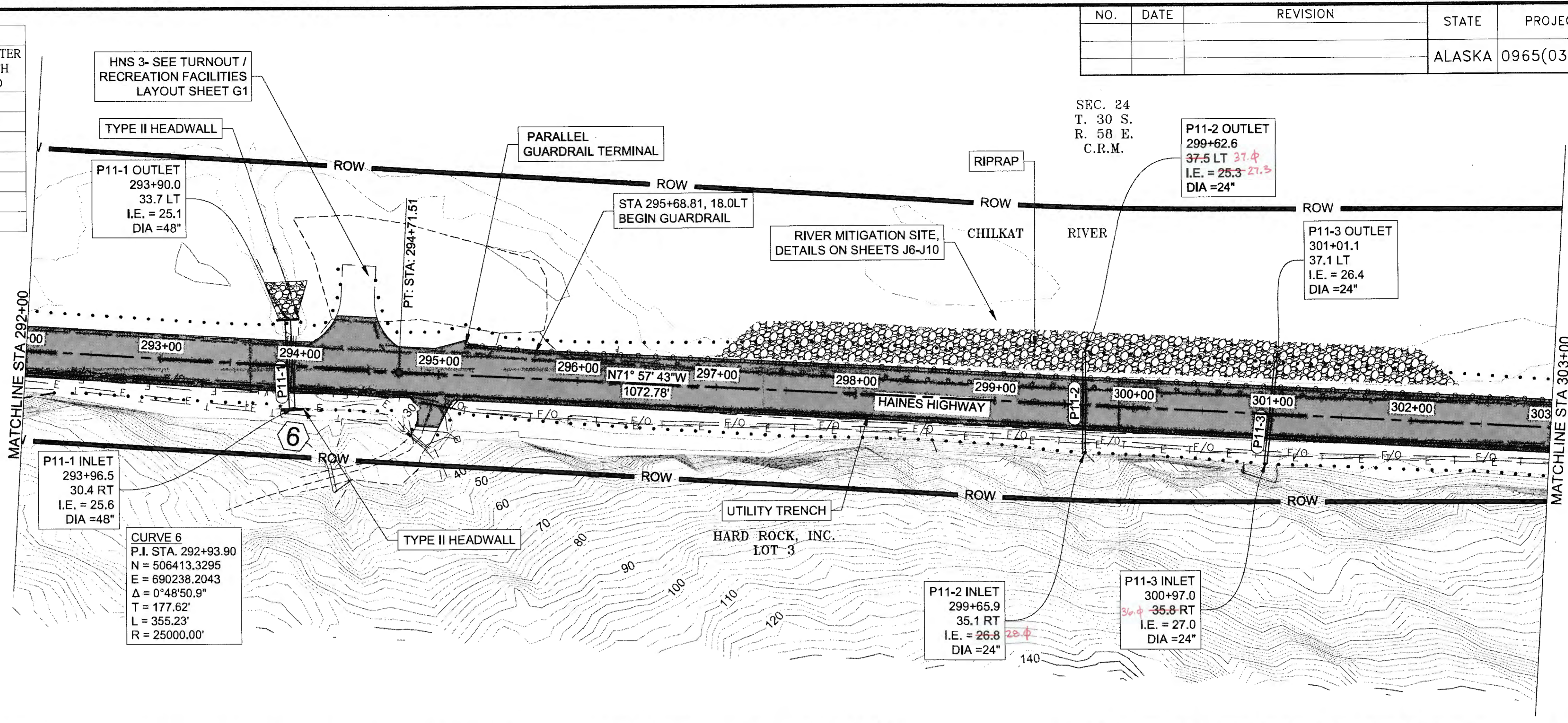
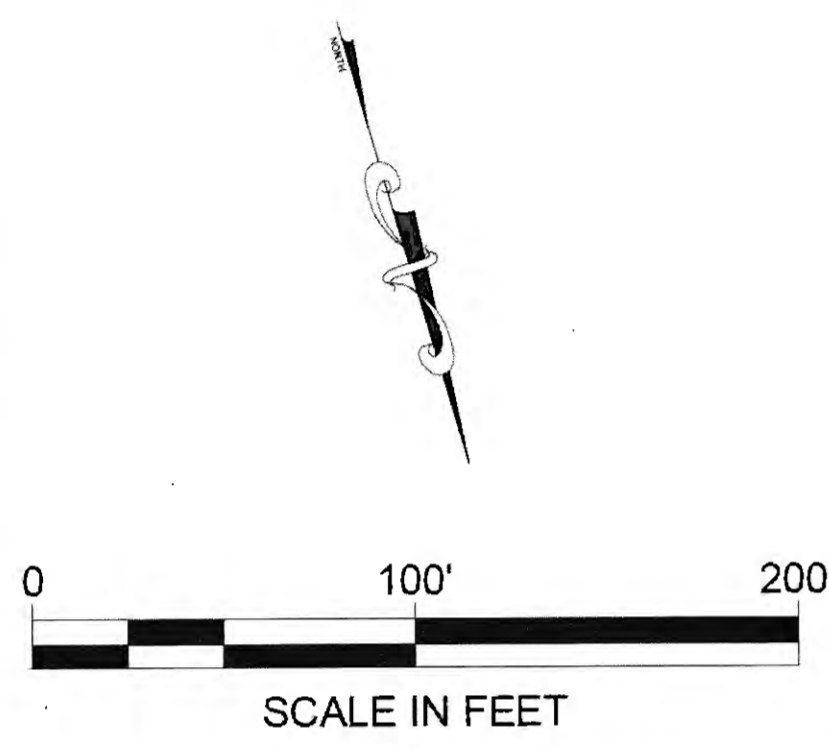
7/24 6-25-20

FIRM DWL  
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 ADDRESS 5366 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 8/3/2017 10:18 LAYOUT F11

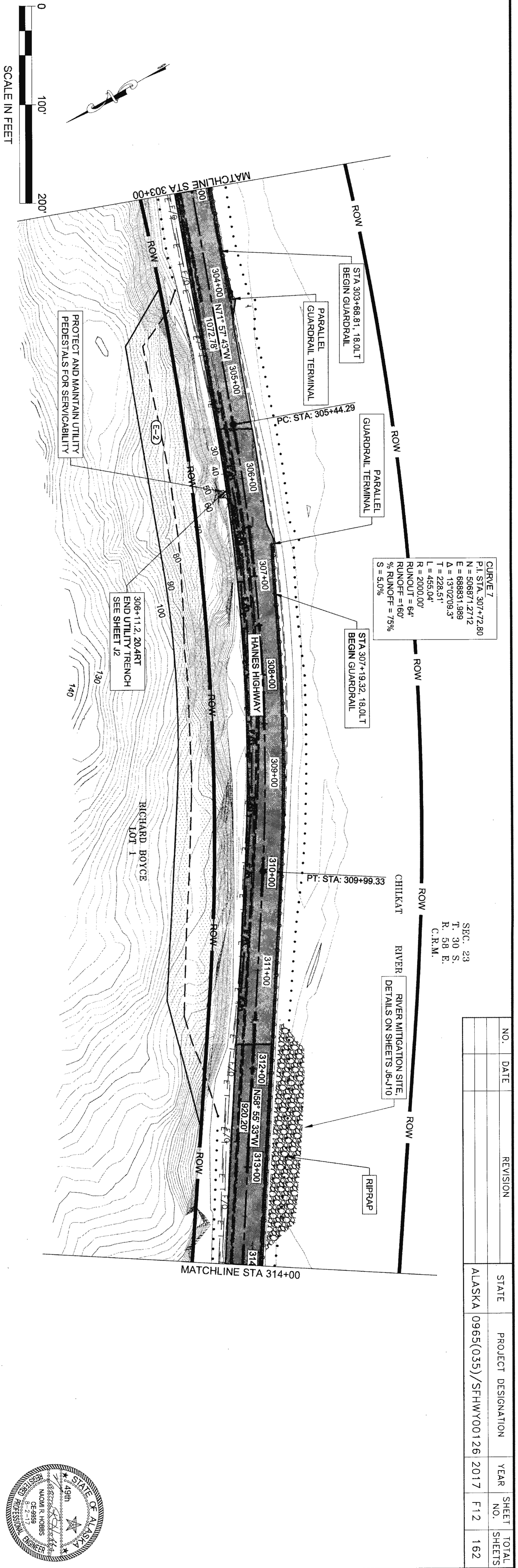
P11-1 HYDROLOGIC & HYDRAULIC SUMMARY				
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER / DEPTH RATIO
50%	2	13	27.19	0.40
2%	50	36	28.37	0.69
1%	100	41	28.58	0.74

DRAINAGE AREA = 0.933 SQ MI (597 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 103 CFS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F11	162



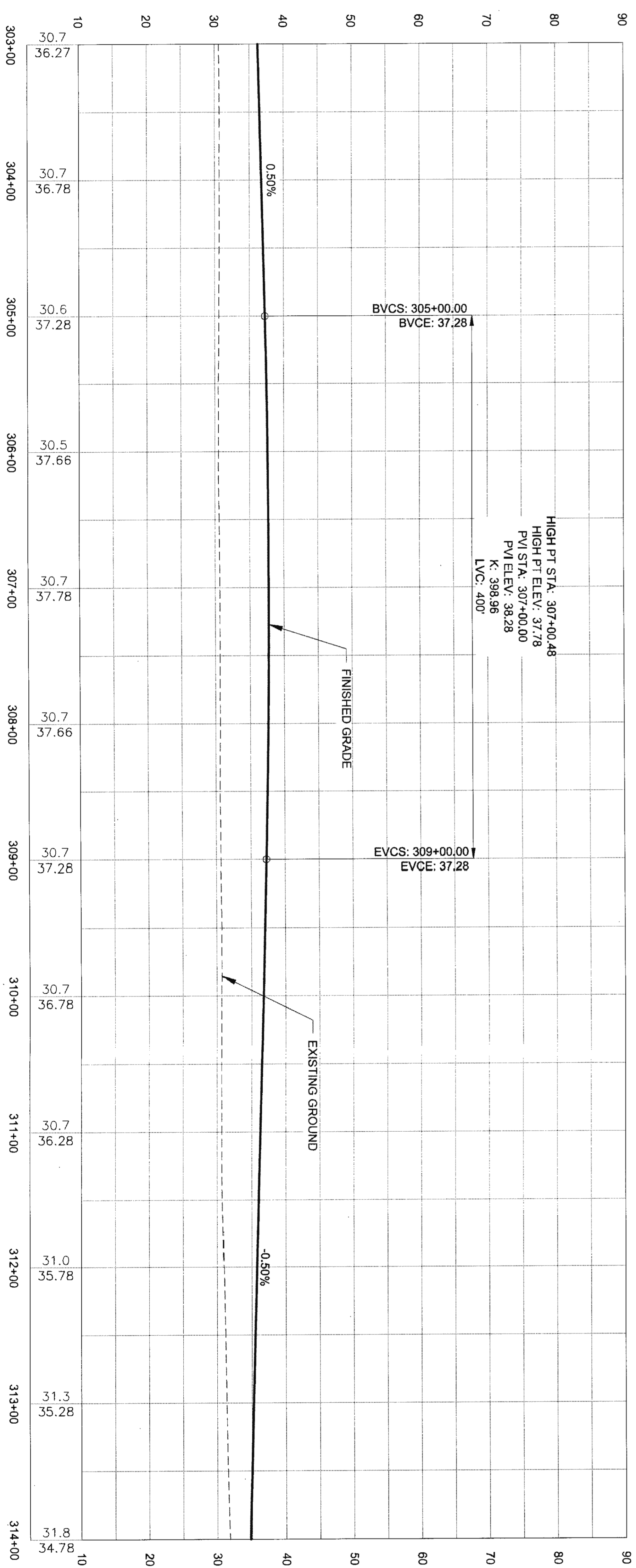
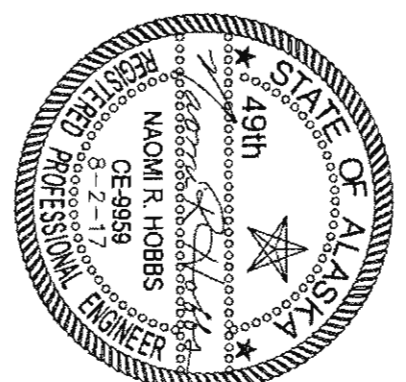
TW 6-25-20



**CURVE 7**  
 P.I. STA: 307+72.80  
 N = 506871.2712  
 E = 898831.3889  
 Δ = 13°02'09.3"  
 T = 228.51'  
 L = 455.04'  
 R = 2000.00'  
 RUNOUT = 64'  
 RUNOFF = 160'  
 % RUNOFF = 75%  
 S = 5.0%

SEC. 23  
 T. 30 S.  
 R. 58 E.  
 C.R.M.

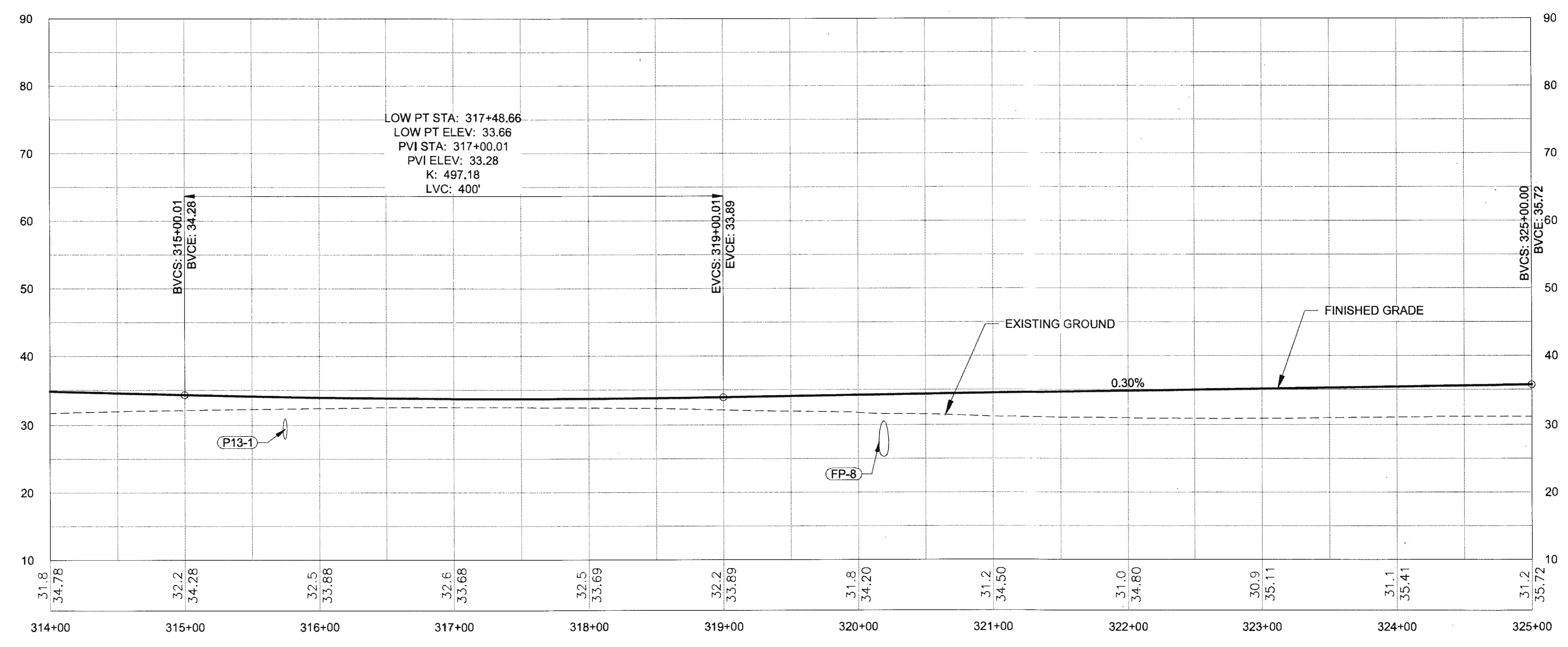
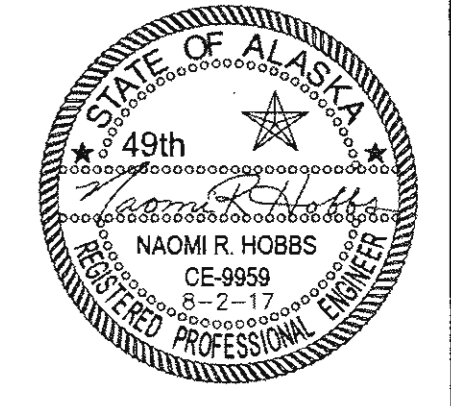
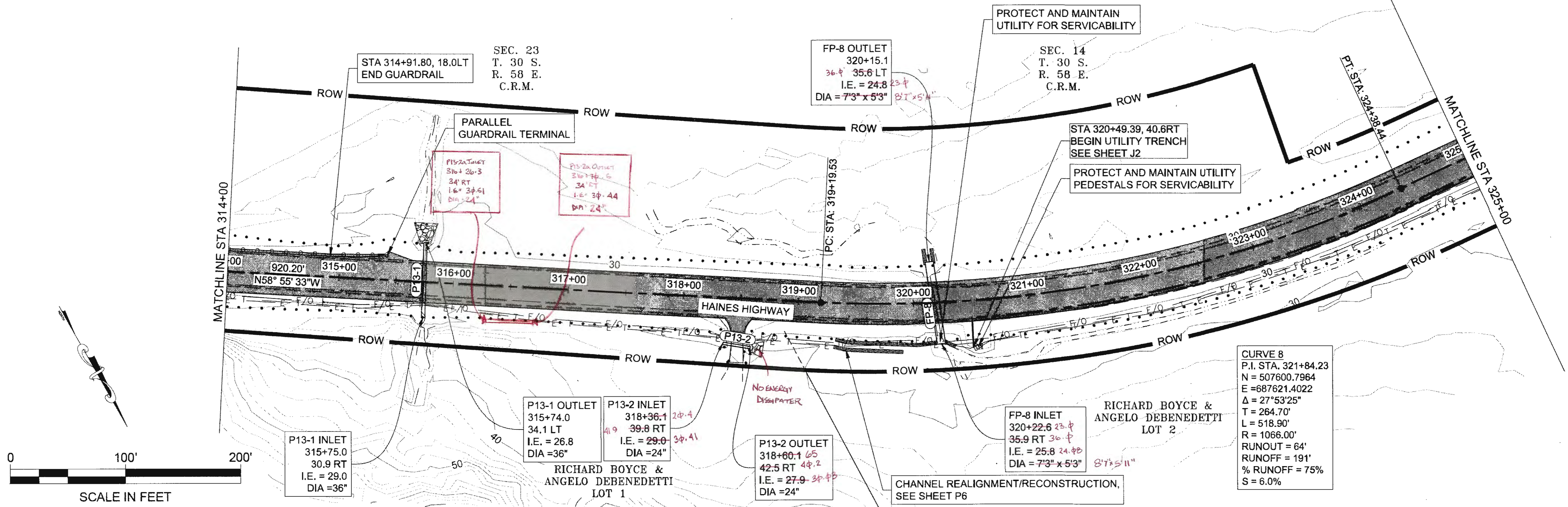
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F12	162



TKL 6-25-20

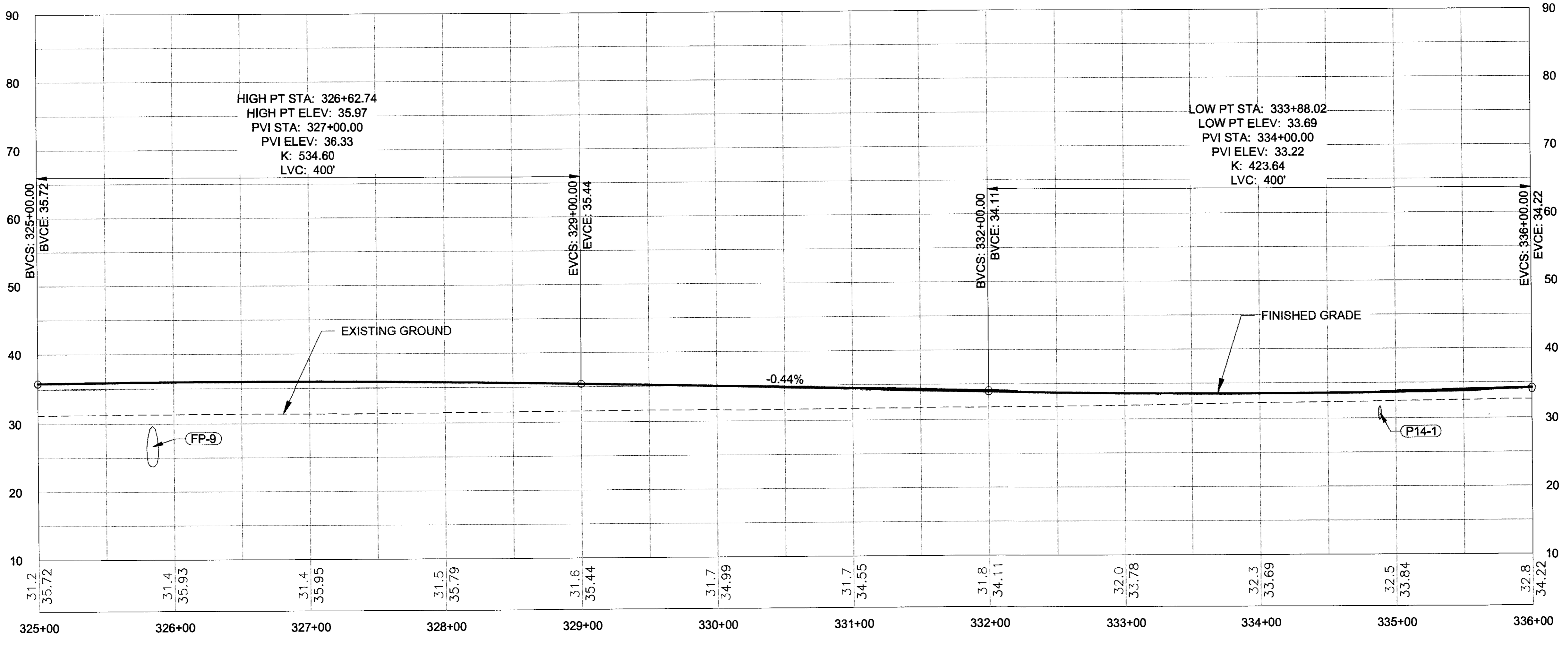
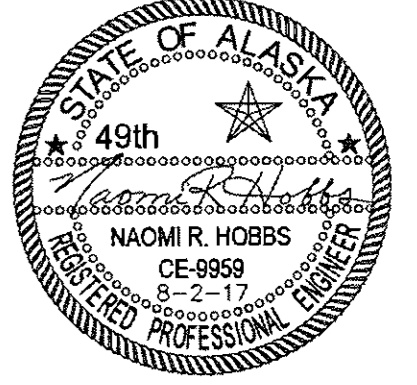
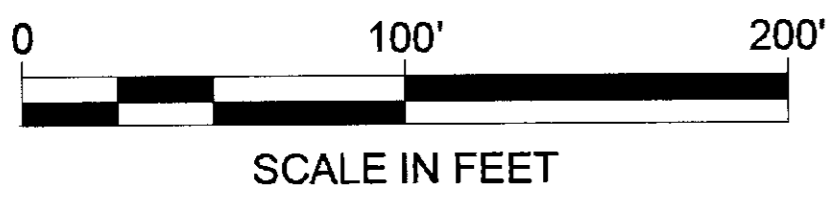
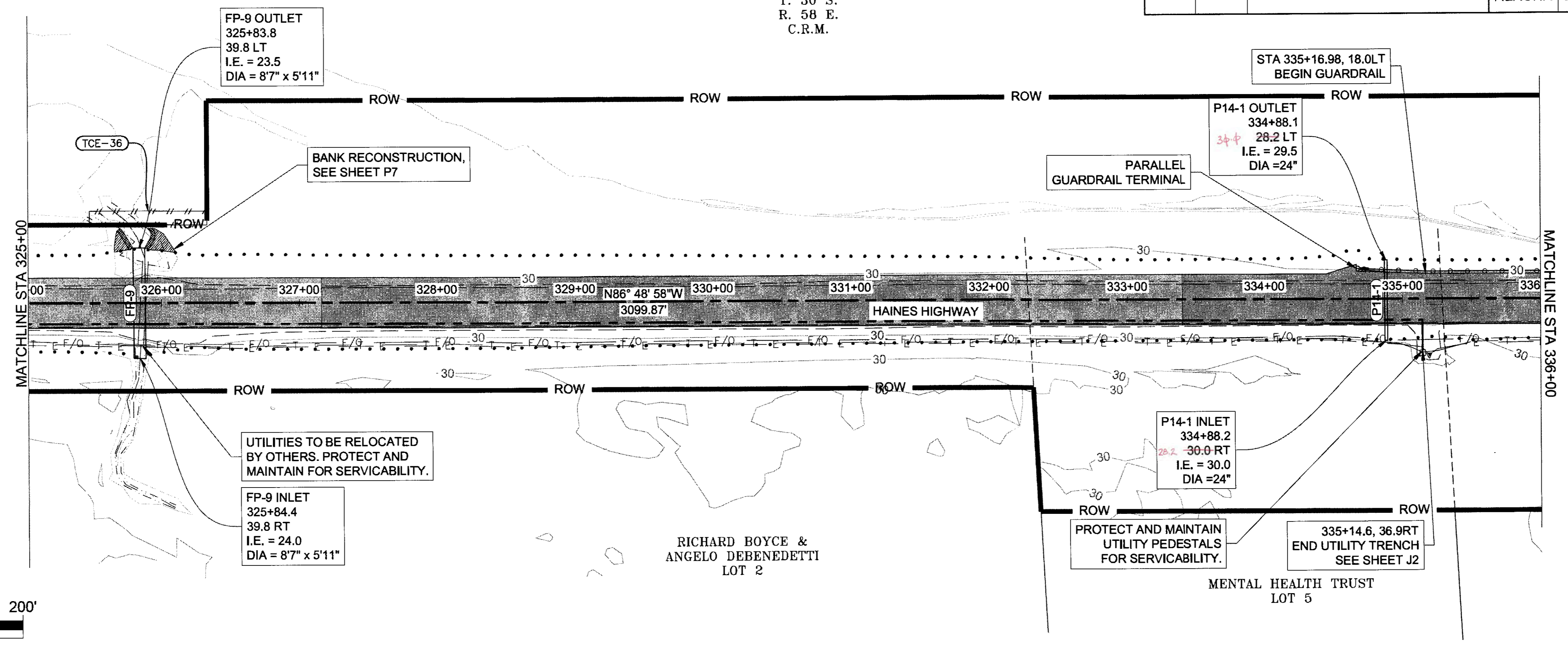
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F13	162

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 FILE: g:\24\61850-01\65CAD\mp\_3-12\_pse\F SHEETS\F1-F20.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 8/3/2017 10:18  
 LAYOUT: F13  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECLB48



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F14	162

SEC.14  
T. 30 S.  
R. 58 E.  
C.R.M.

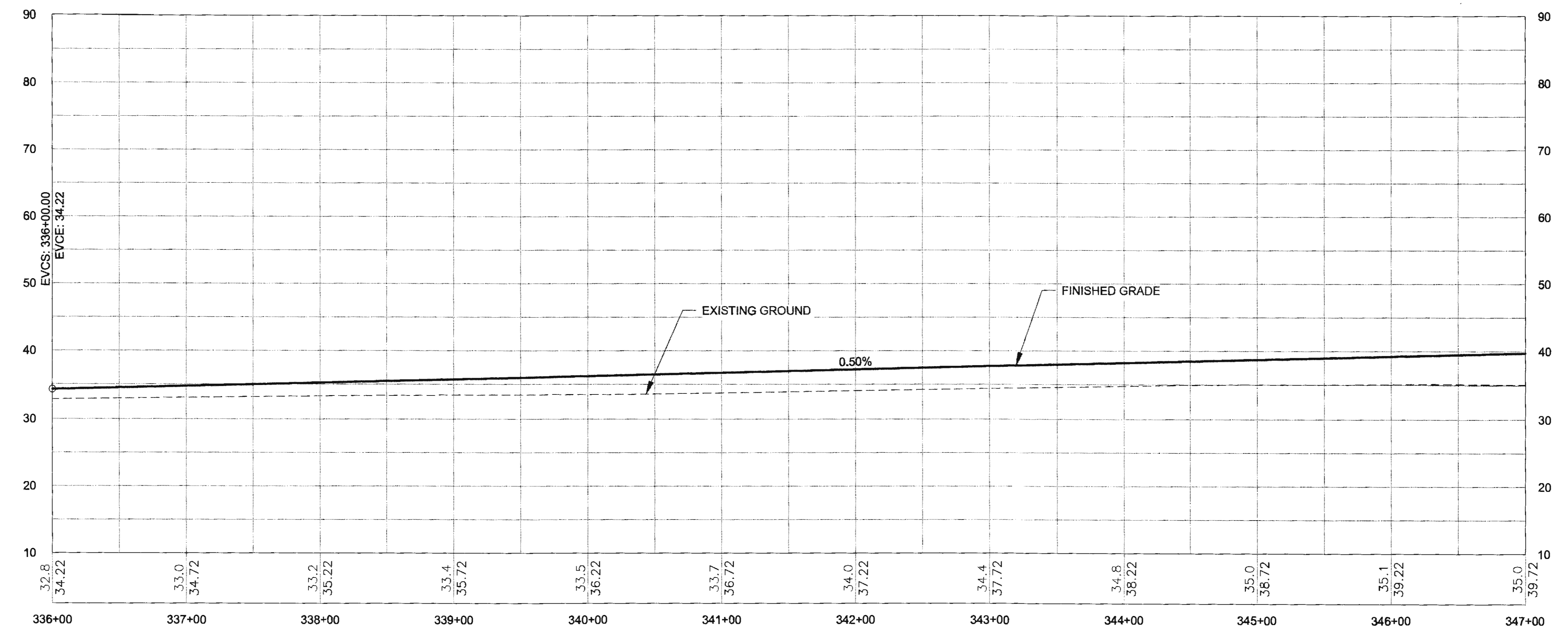
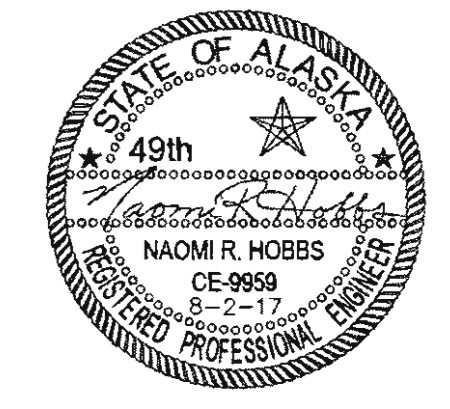
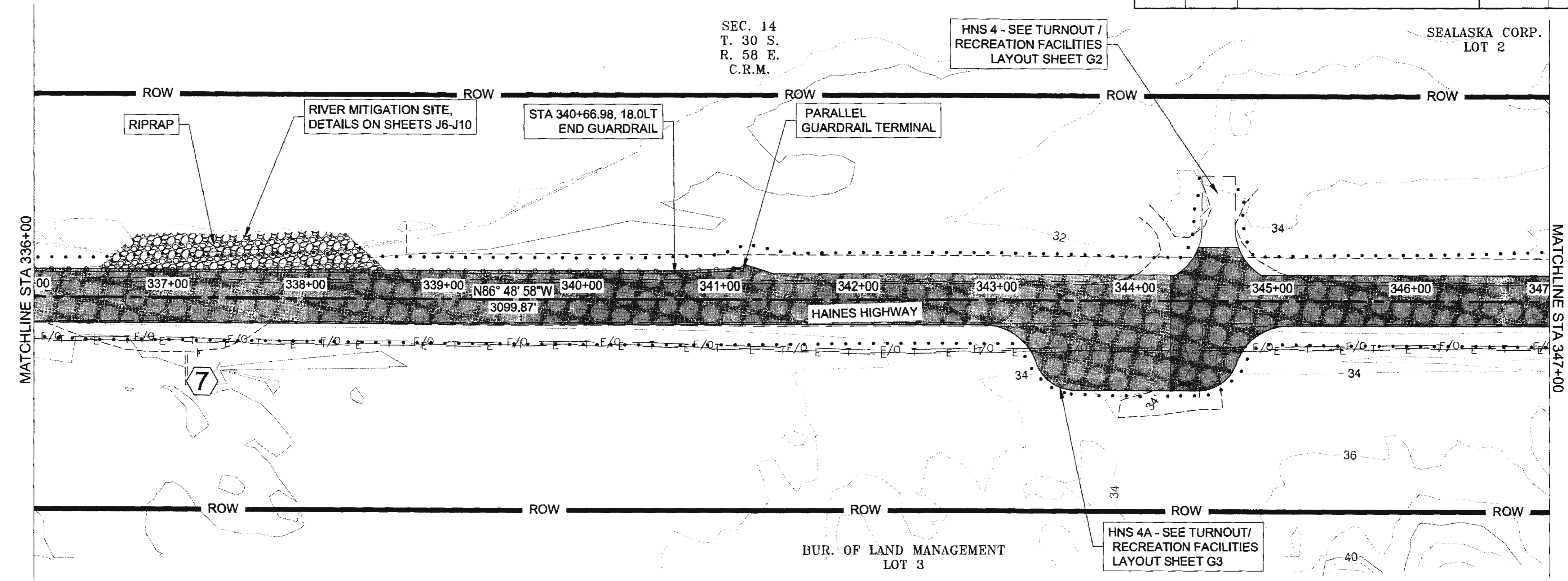


FIRM DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH # : AECL848  
 FILE: g:\24\61850-01\65CAD\mp\_3-12\_pse\F SHEETS\F1-F20.dwg  
 DATE: 8/3/2017 10:18  
 LAYOUT: F14  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

Rev 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F15	162

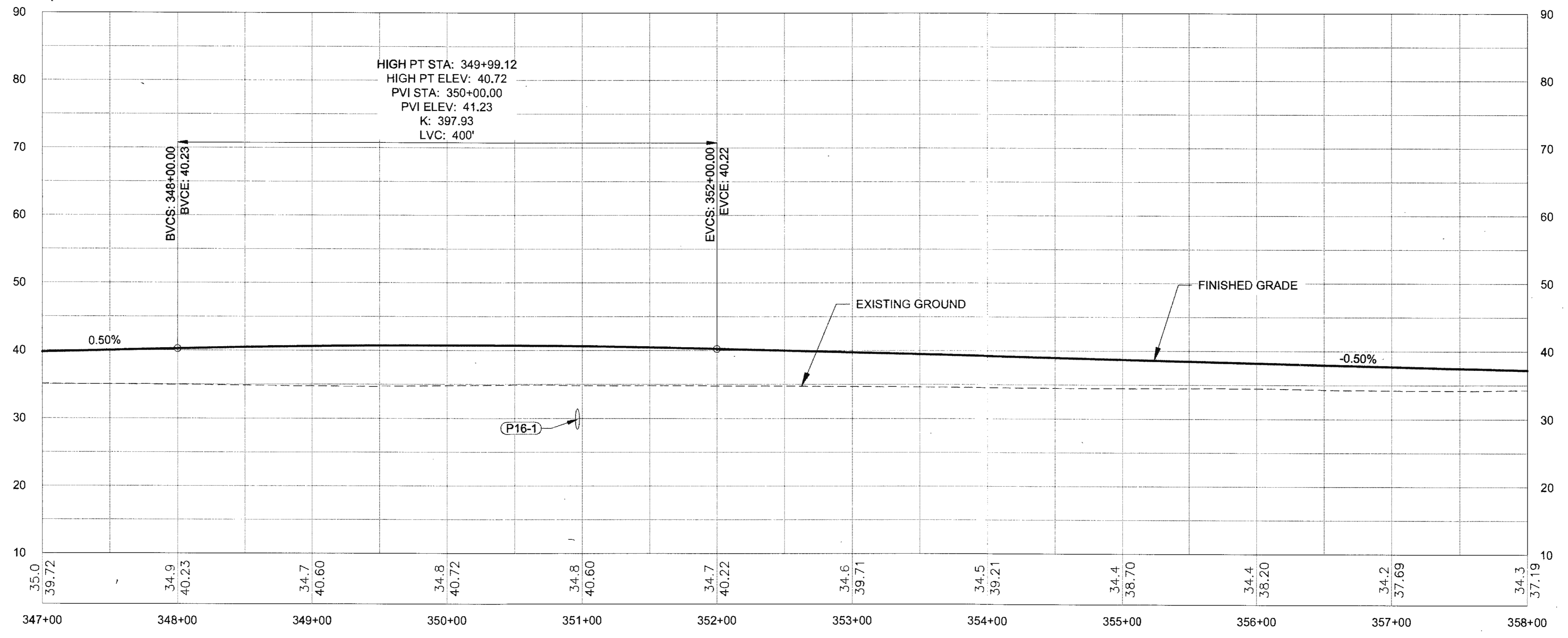
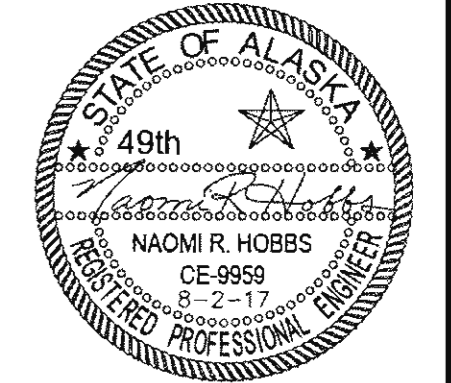
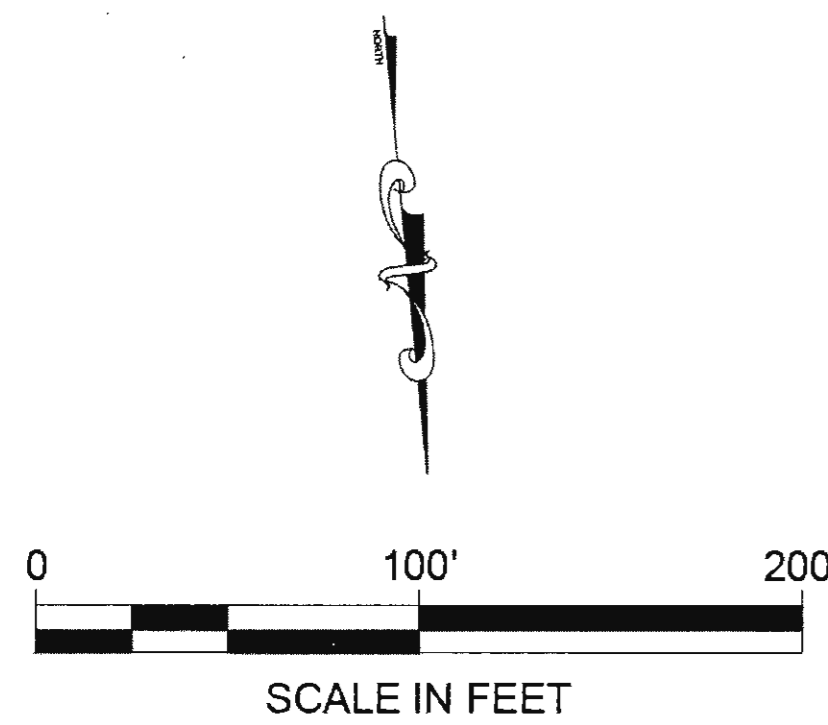
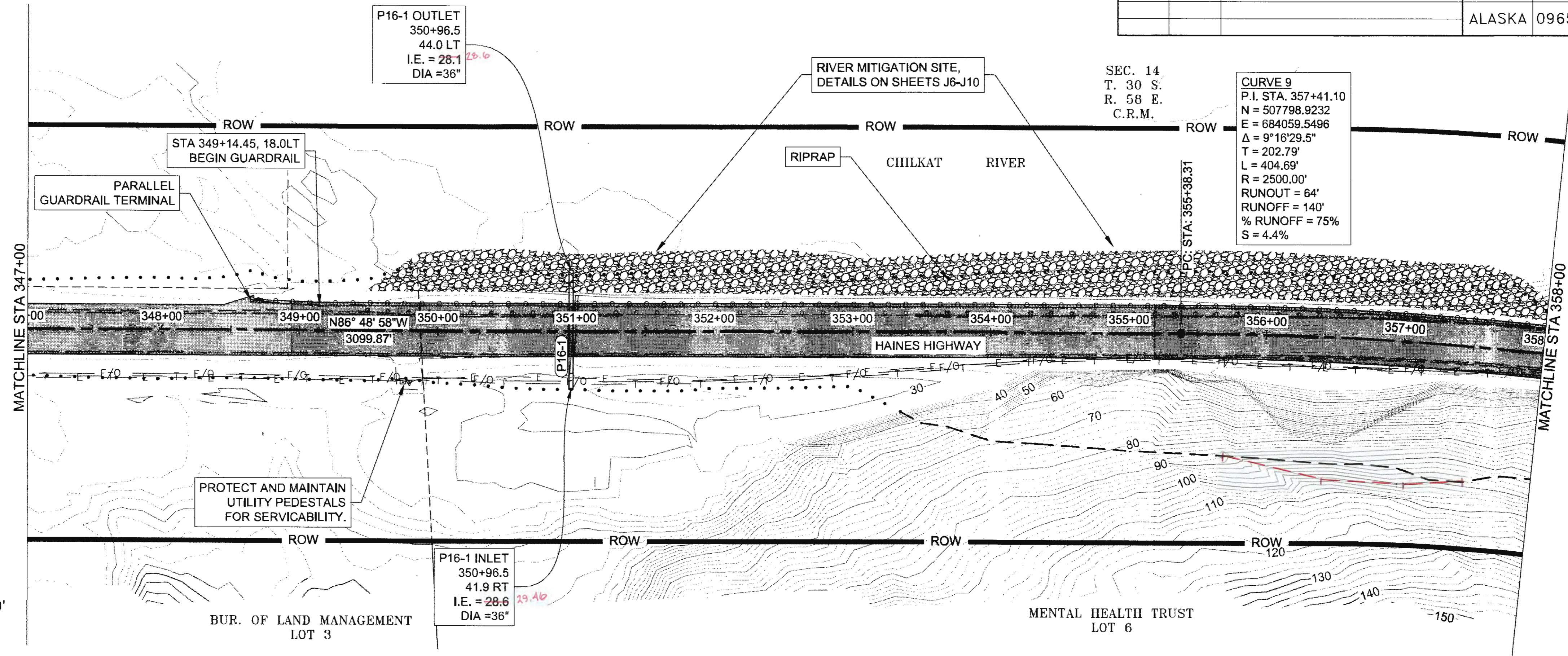
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 8/3/2017 10:18  
 LAYOUT: F15  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECL848



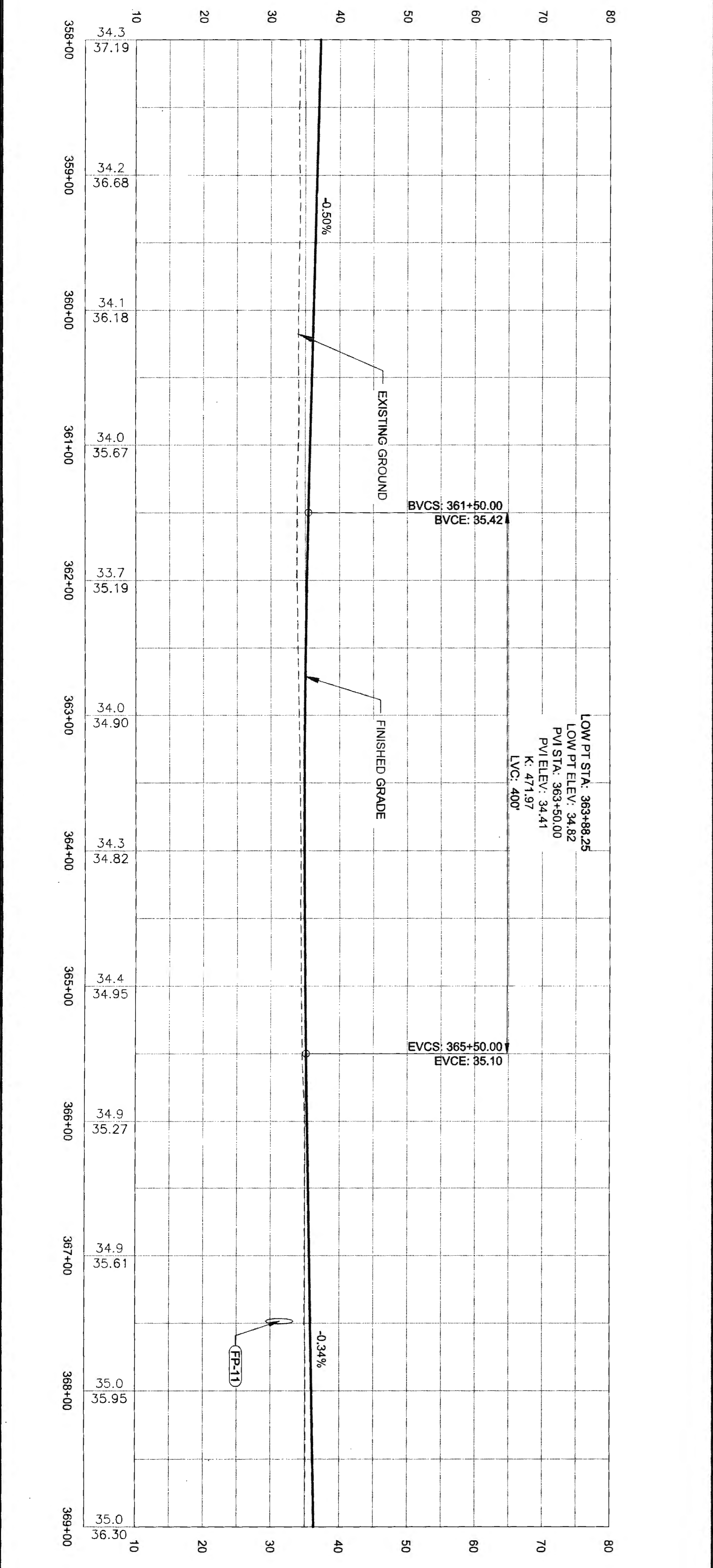
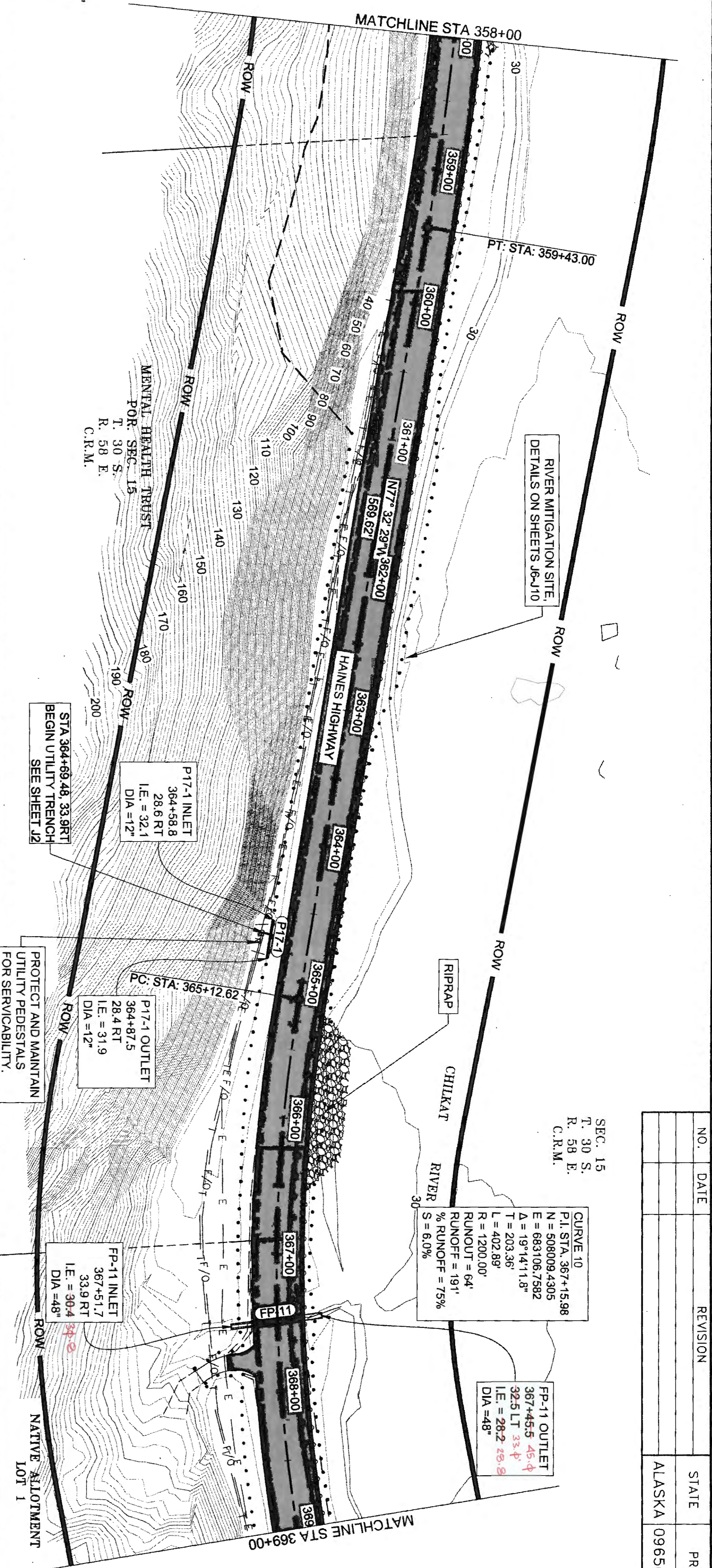
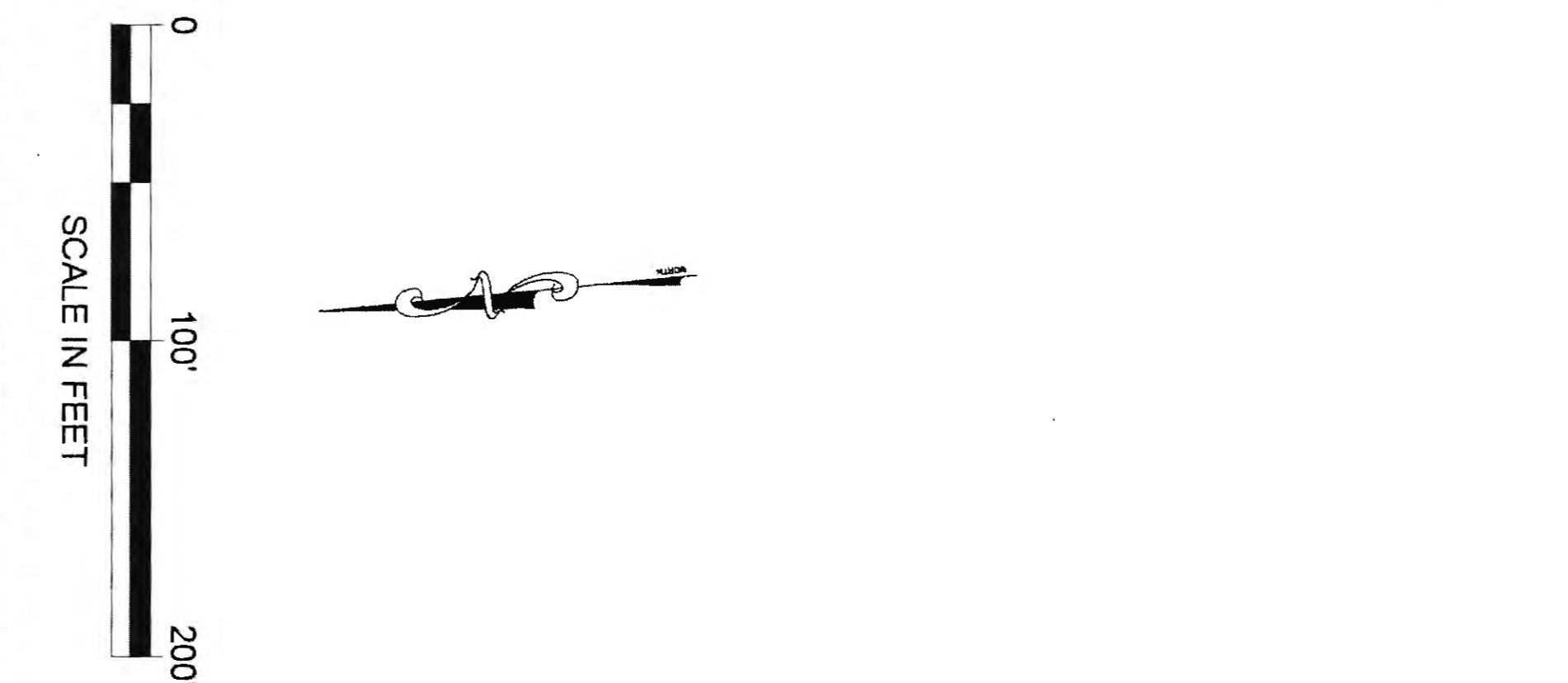


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F16	162

FIRM DOWL  
 ADDRESS 5388 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 8/3/2017 10:18 LAYOUT F16  
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TRW 1-25-20

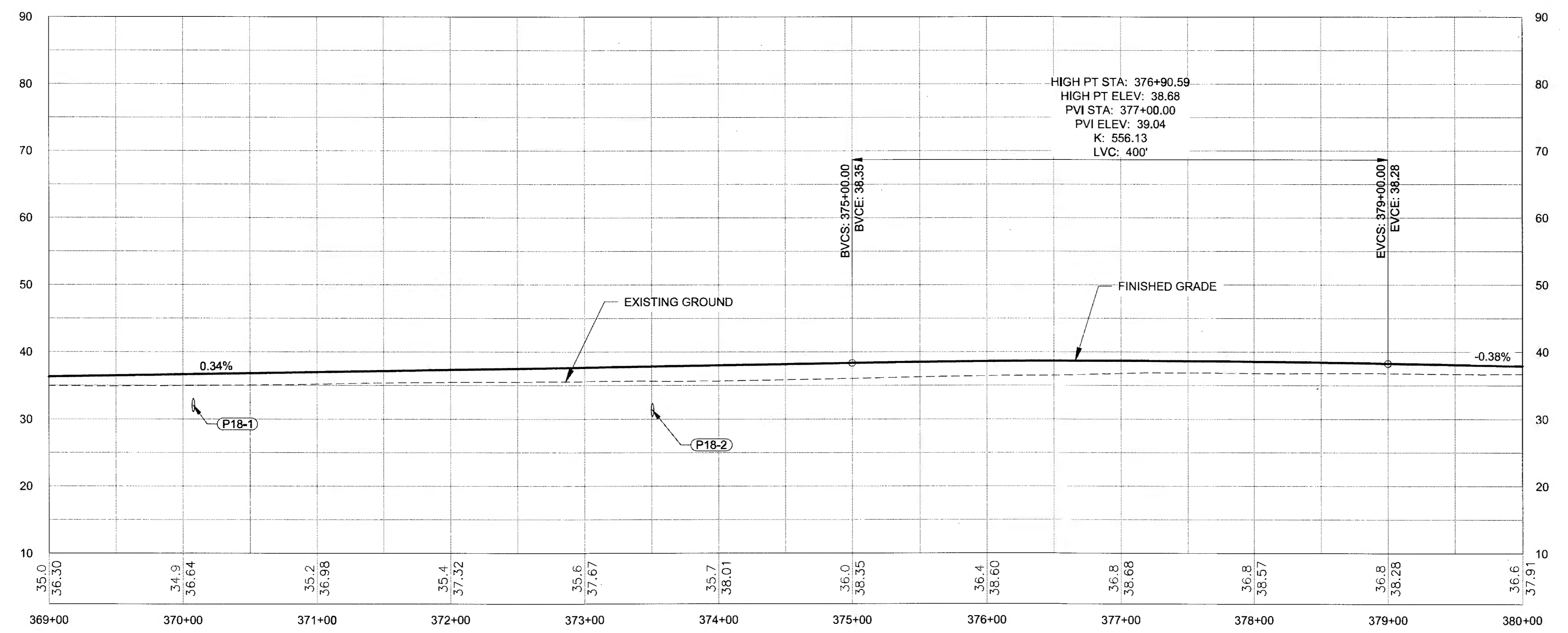
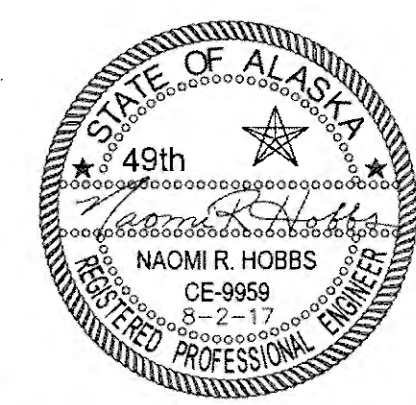
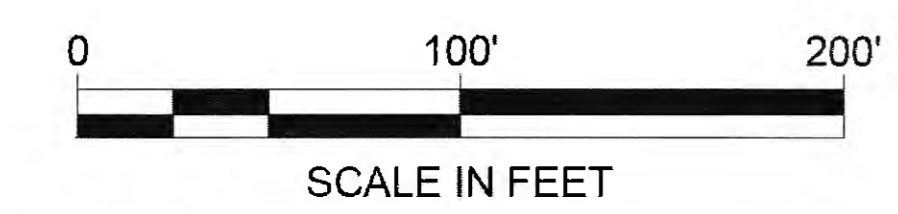
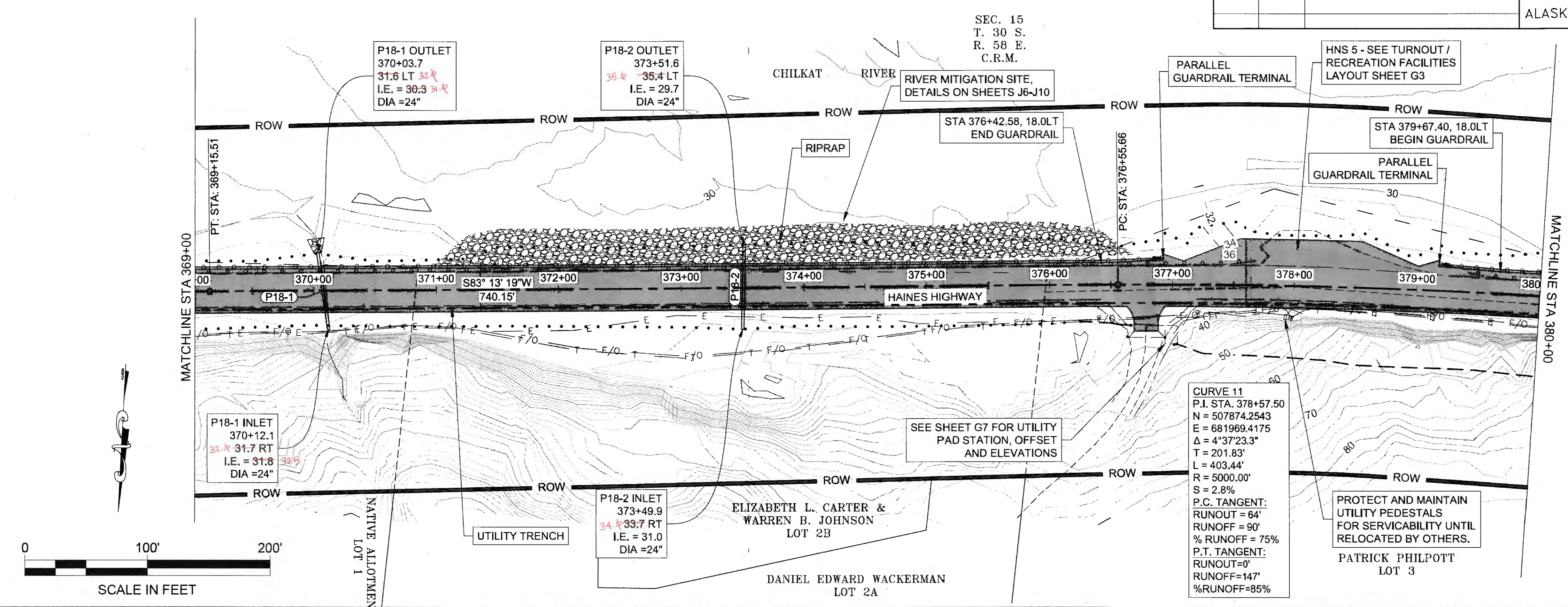


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHW00126	2017	F17	162

7/20/17-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F18	162

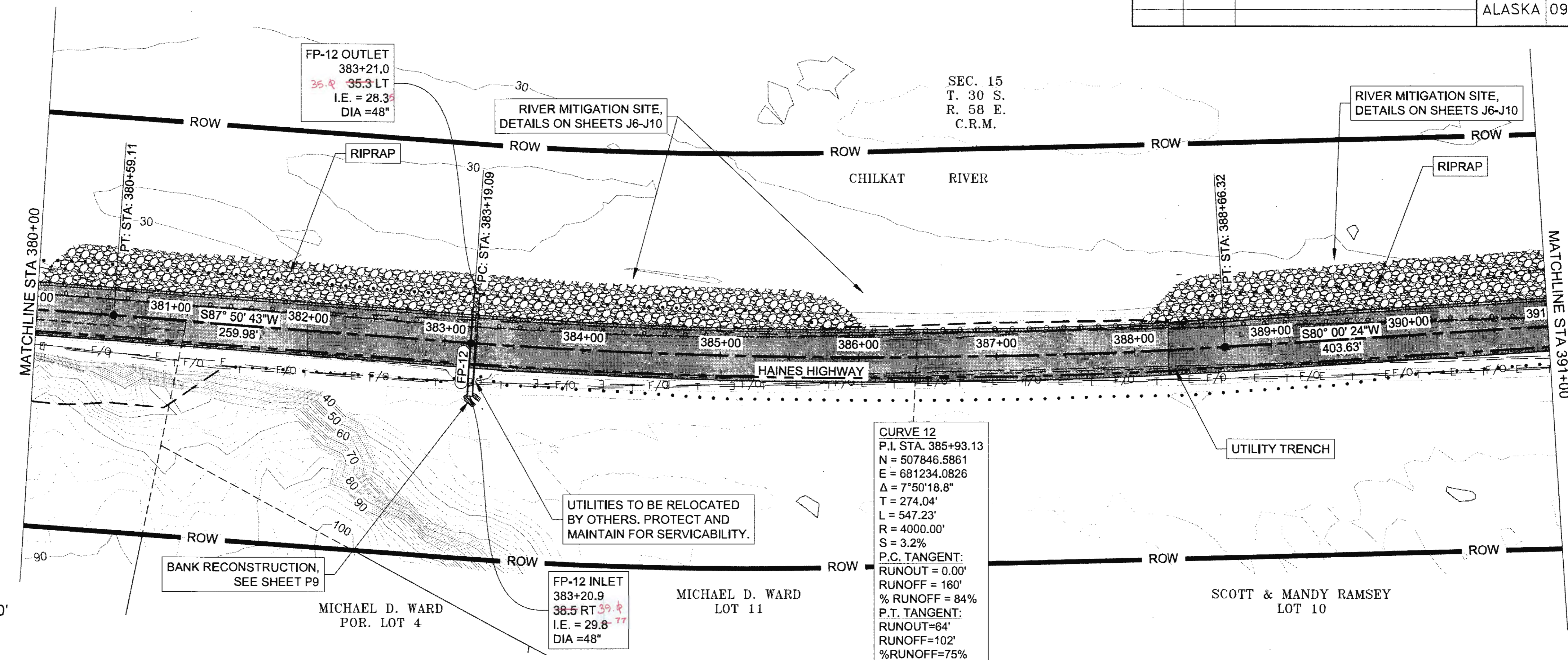
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 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH. #: AEC-848  
 DATE: 8/3/2017 10:18  
 LAYOUT: F18



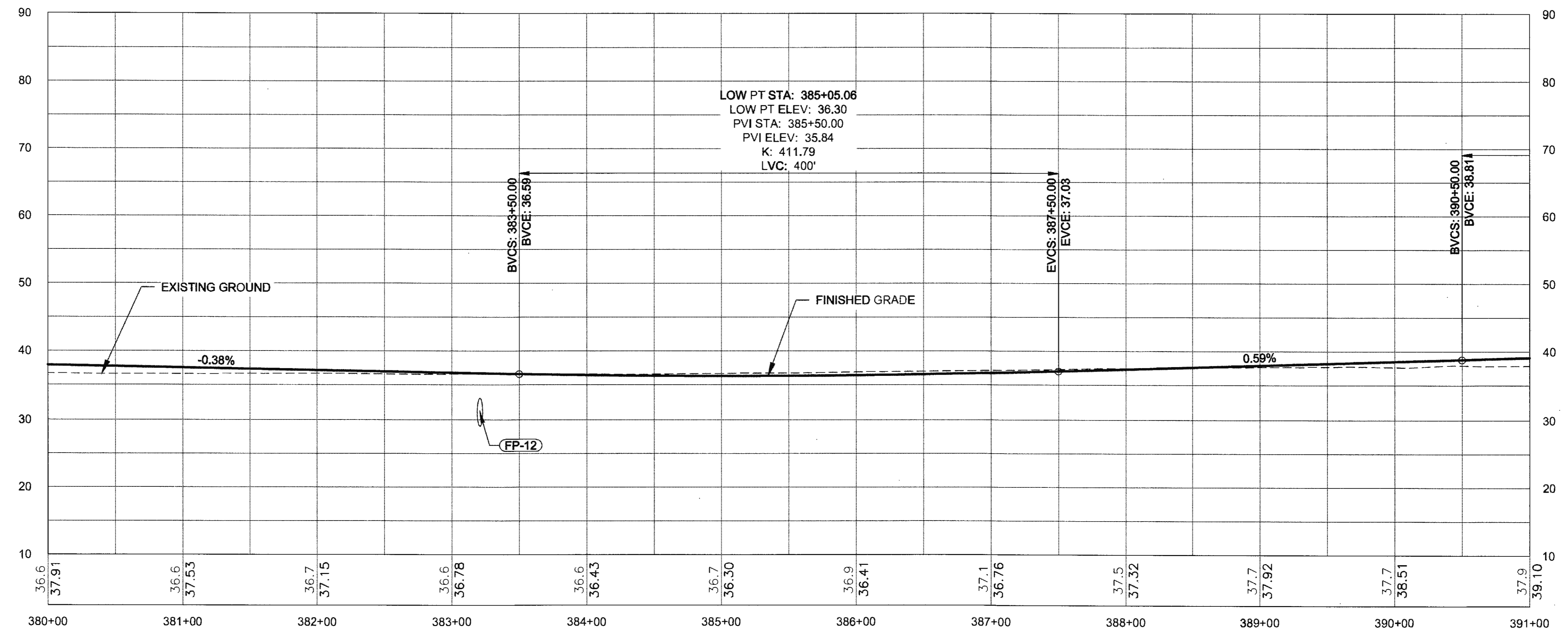
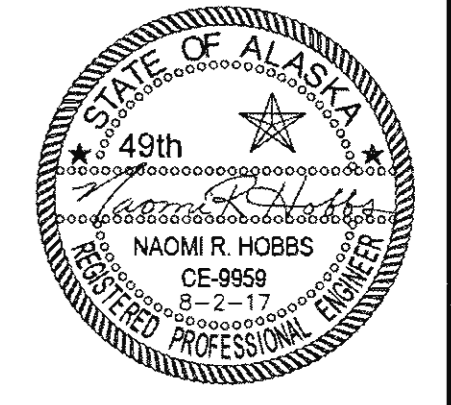
TRW 6-25-20

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F19	162

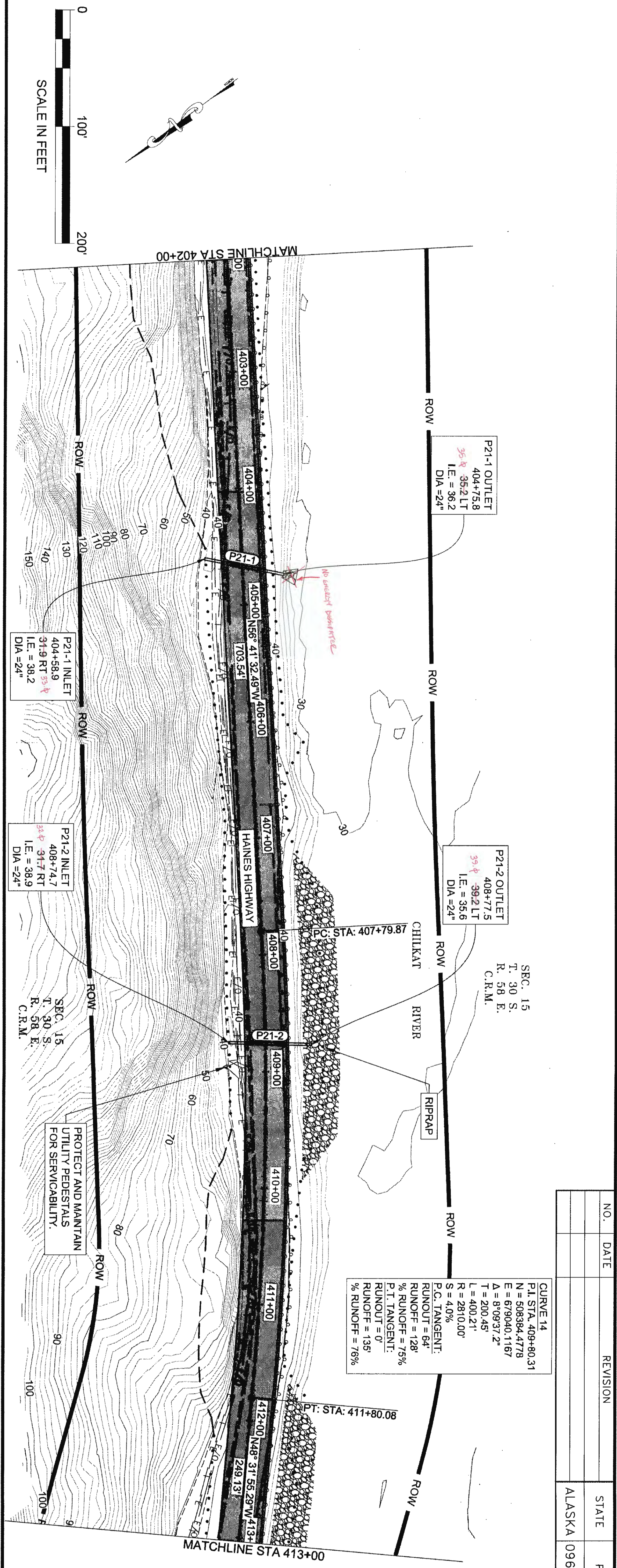
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 8/3/2017 10:18 LAYOUT: F19  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #.: AECL848



**CURVE 12**  
 P.I. STA. 385+93.13  
 N = 507846.5861  
 E = 681234.0826  
 $\Delta = 7^{\circ}50'18.8''$   
 T = 274.04'  
 L = 547.23'  
 R = 4000.00'  
 S = 3.2%  
 P.C. TANGENT: RUNOUT = 0.00'  
 RUNOFF = 160'  
 % RUNOFF = 84%  
 P.T. TANGENT: RUNOUT = 64'  
 RUNOFF = 102'  
 % RUNOFF = 75%

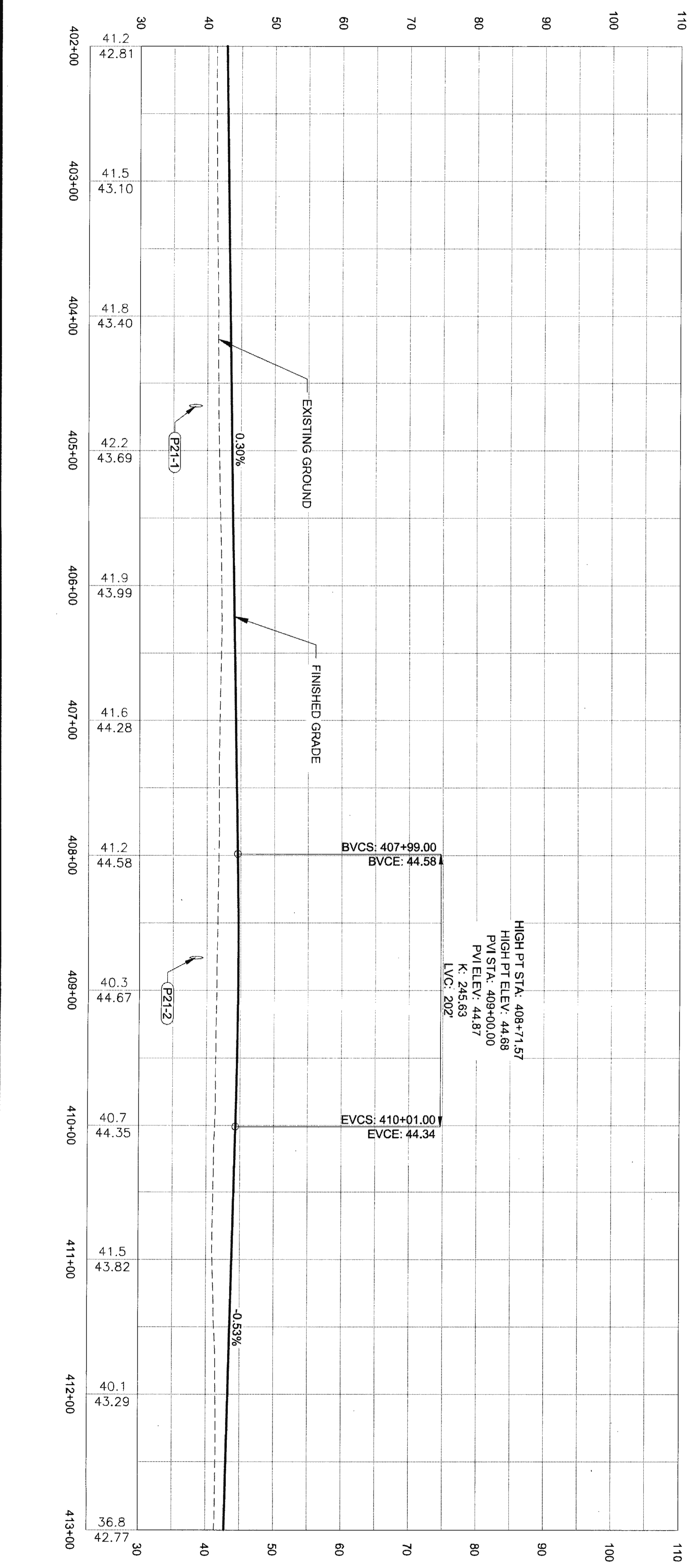
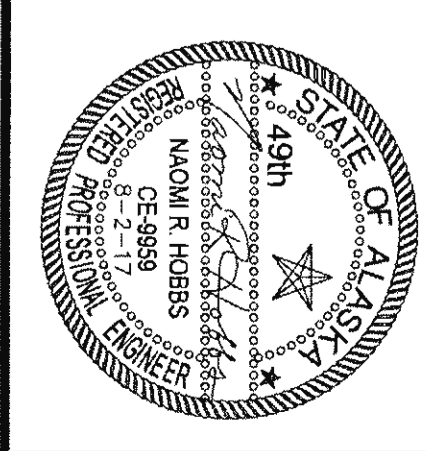






CURVE 14  
 P.I. STA: 409+80.31  
 N = 508384.4778  
 E = 679040.1167  
 Δ = 8°09'37.2"  
 T = 200.45'  
 L = 400.21'  
 R = 2810.00'  
 S = 4.0%  
 P.C. TANGENT: RUNOUT = 64'  
 % RUNOFF = 128  
 P.T. TANGENT: RUNOUT = 0'  
 % RUNOFF = 135  
 % RUNOFF = 76%

SEC. 15  
 T: 30 S.  
 R: 58 E.  
 C.R.M.



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F21	162

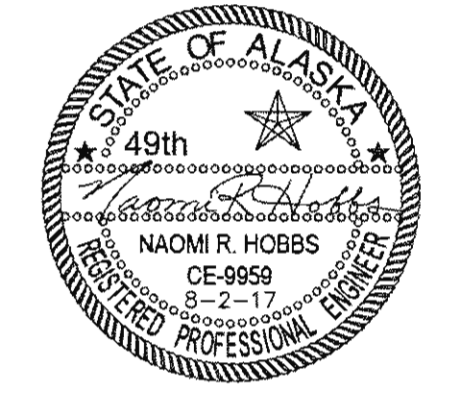
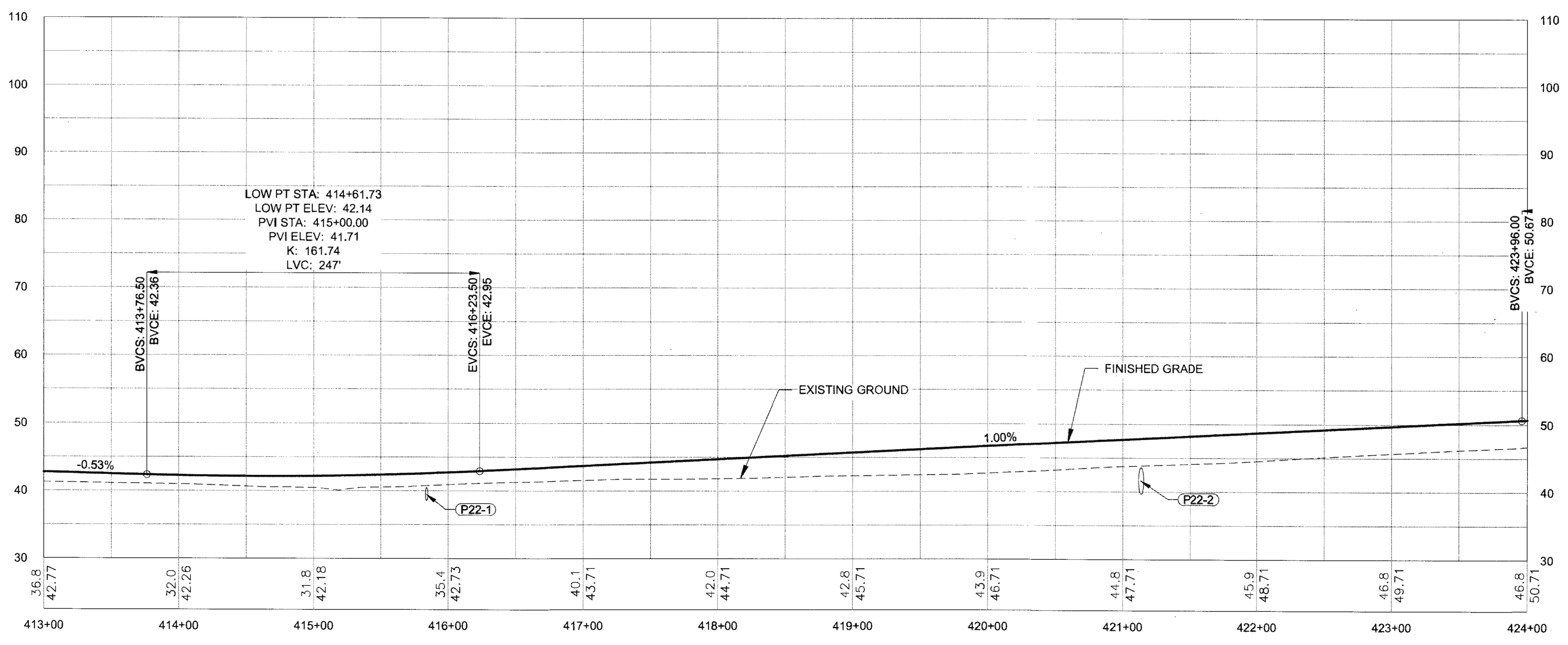
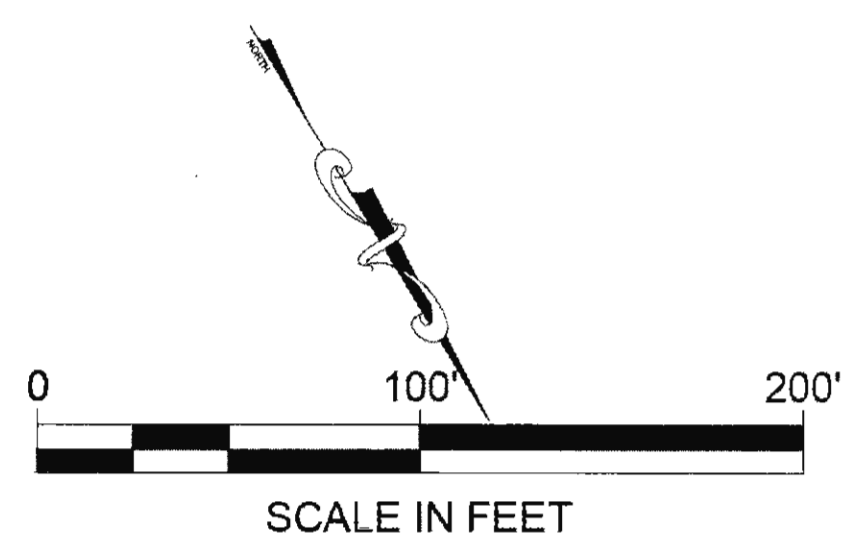
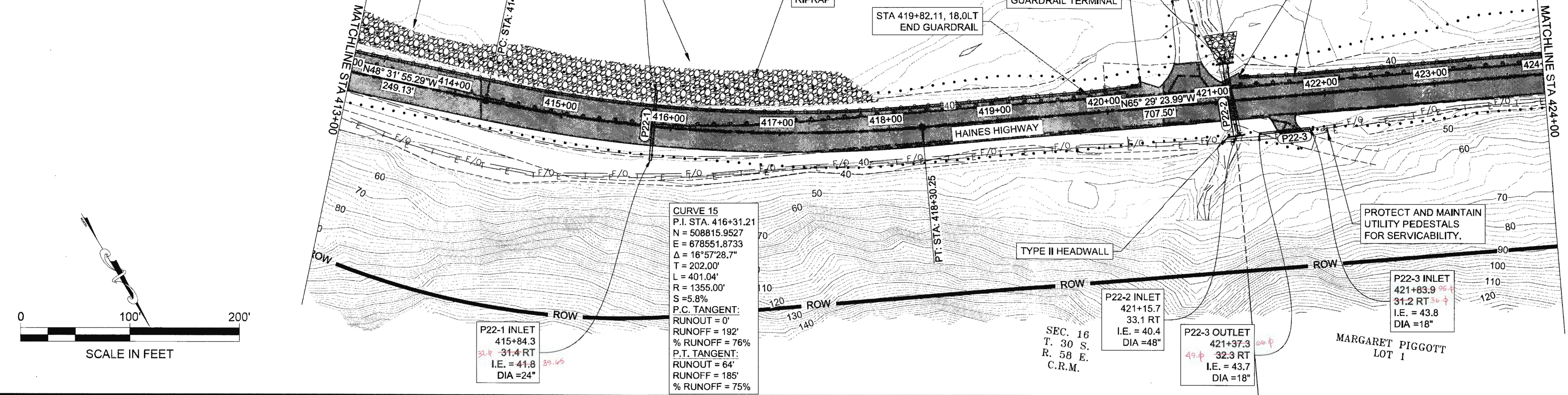
7/10 6-25-20

FIRM DOWL  
 FILE: c:\24\61850-01\650CAD\mp\_3-12\_pse\F SHEETS\F21-F40.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/22/2017 12:34  
 LAYOUT: F22

P22-2 HYDROLOGIC & HYDRAULIC SUMMARY				
EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
50%	2	24	41.98	0.40
2%	50	65	43.64	0.81
1%	100	74	44.00	0.90

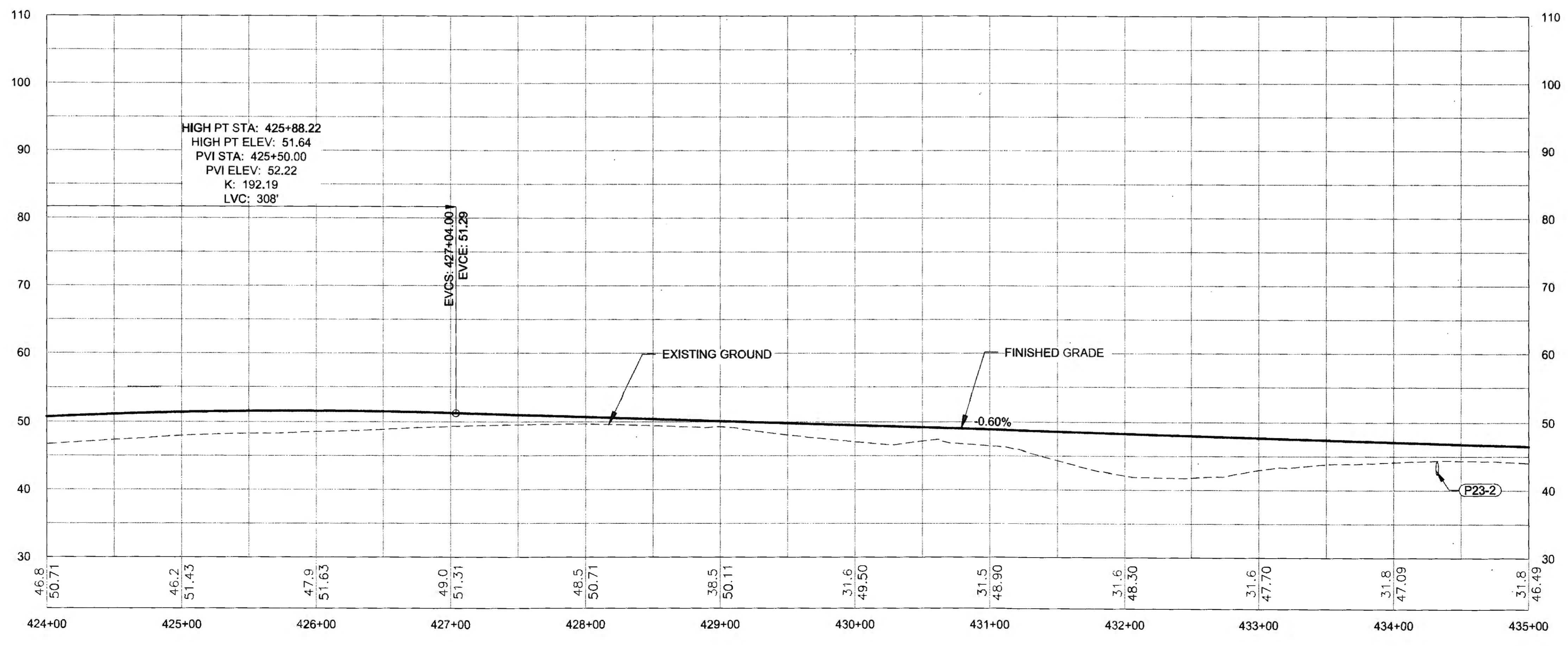
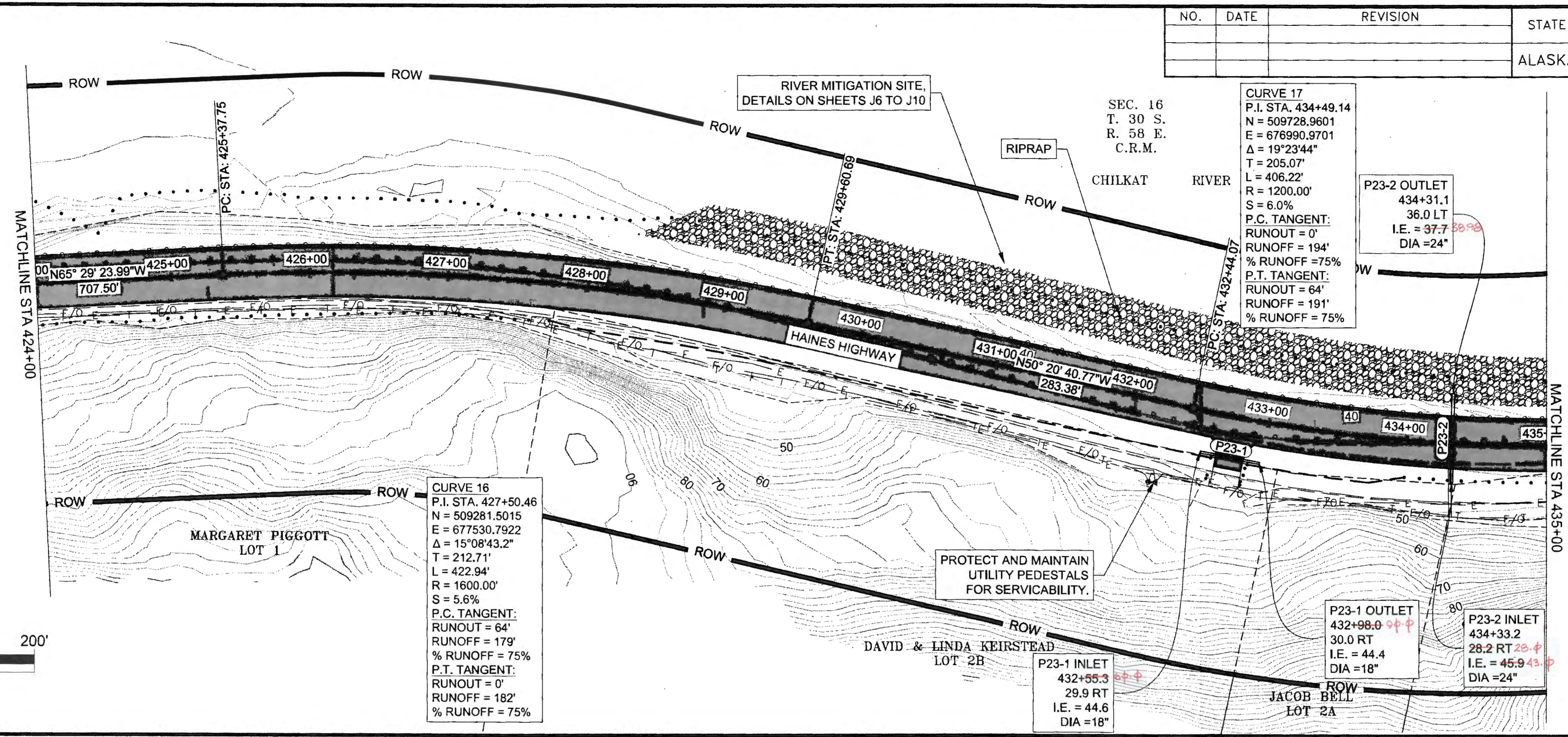
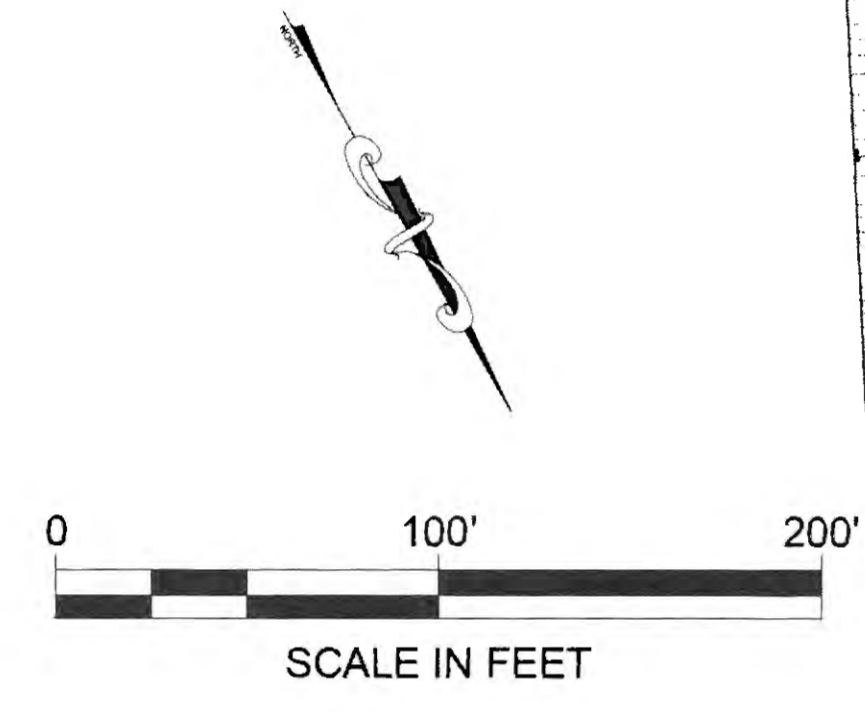
DRAINAGE AREA = 0.245 SQ MI (157 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 130 CFS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F22	162

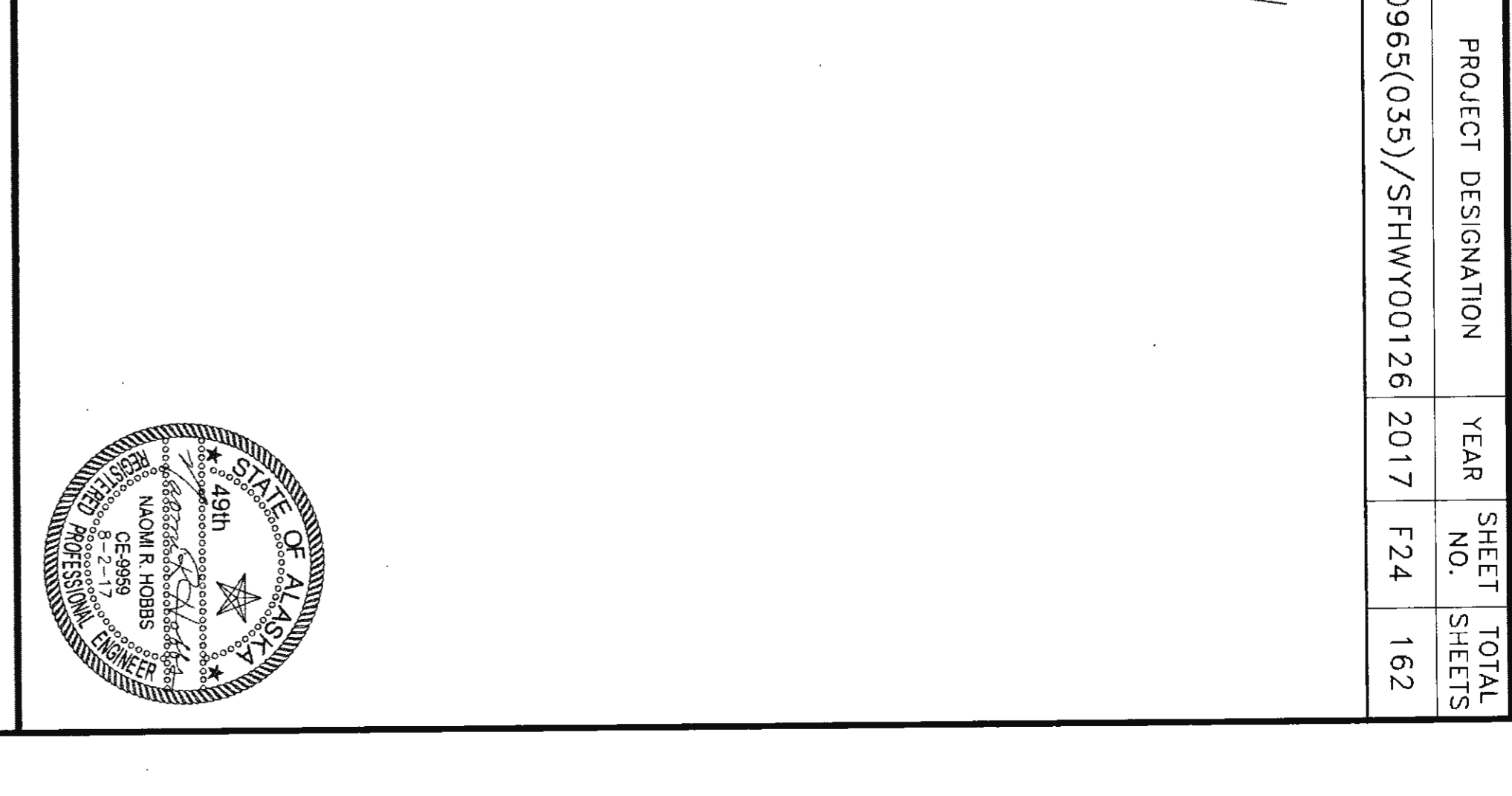
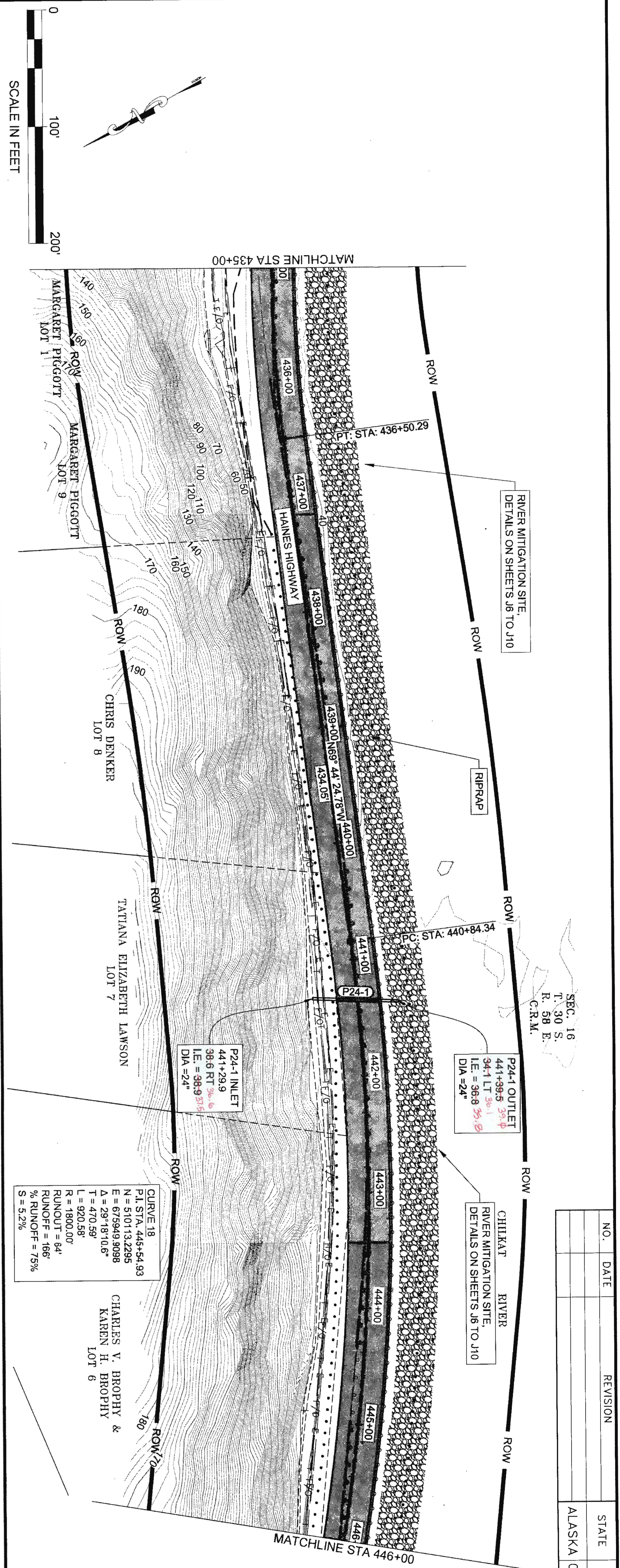


FIRM: DOWL  
 ADDRESS: 5388 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. TYLER  
 DRAFTED: S. TYLER  
 DATE: 6/22/2017 12:34  
 LAYOUT: F23  
 FILE: c:\24\1850-01\65CAD\mp 3-12 psa\F SHEETS\F21-F40.dwg

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F23	162

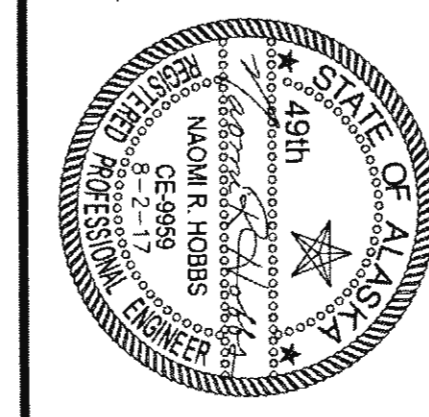






SEC. 16  
T. 30 S.  
R. 58 E.  
C.R.M.

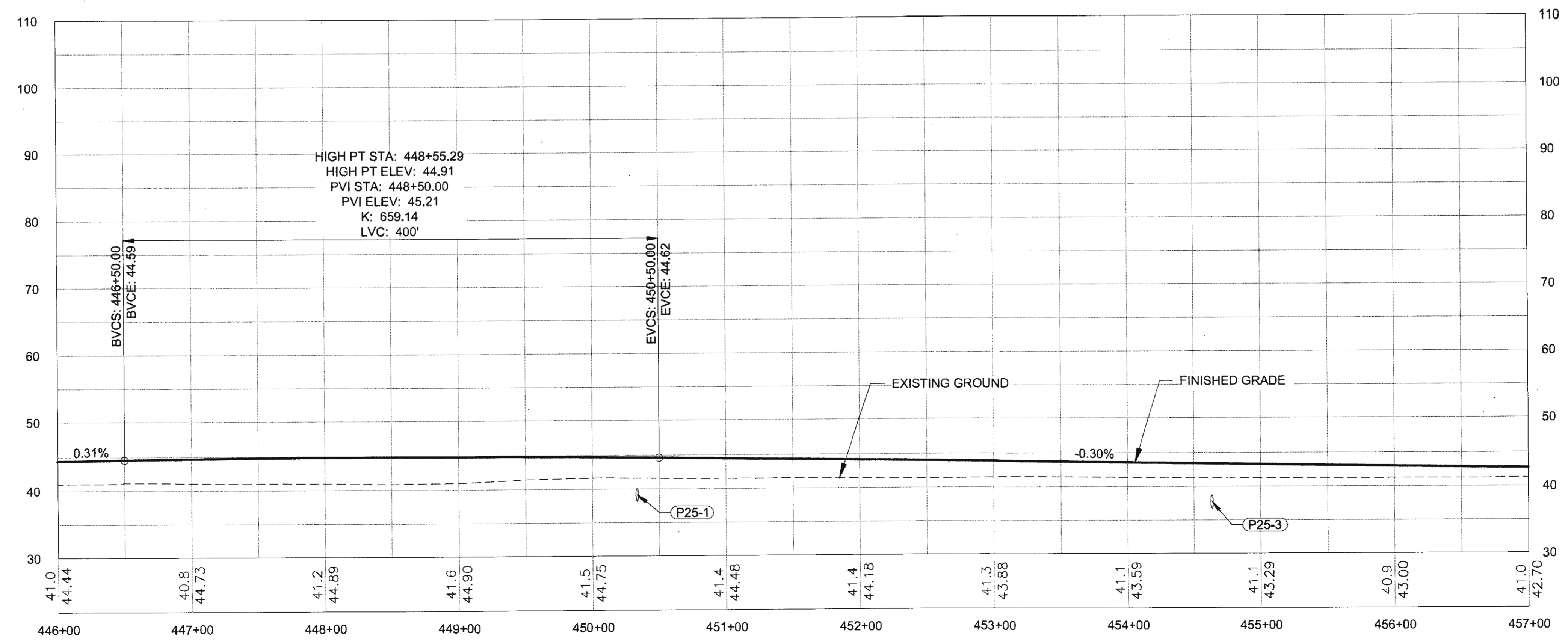
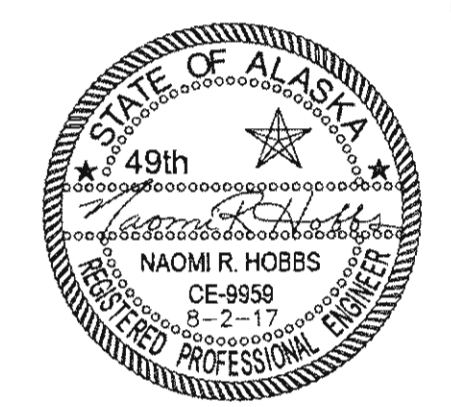
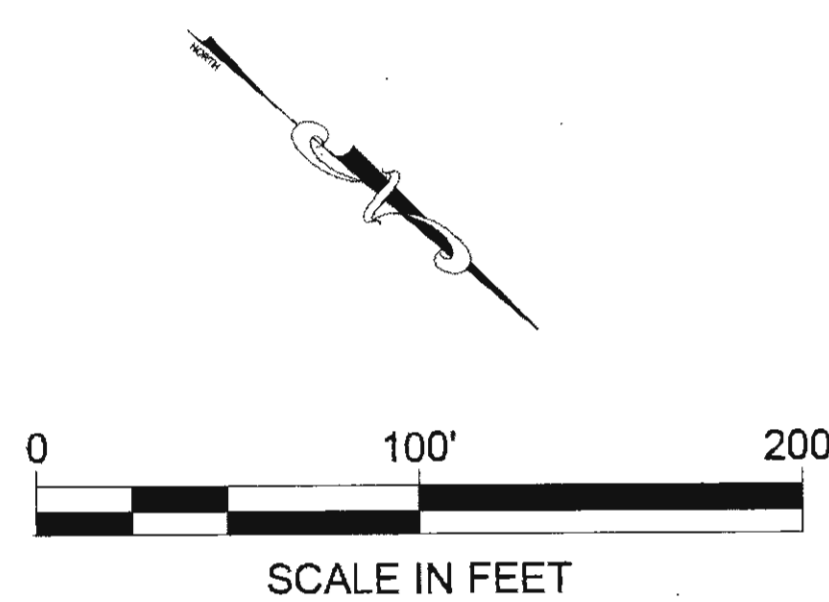
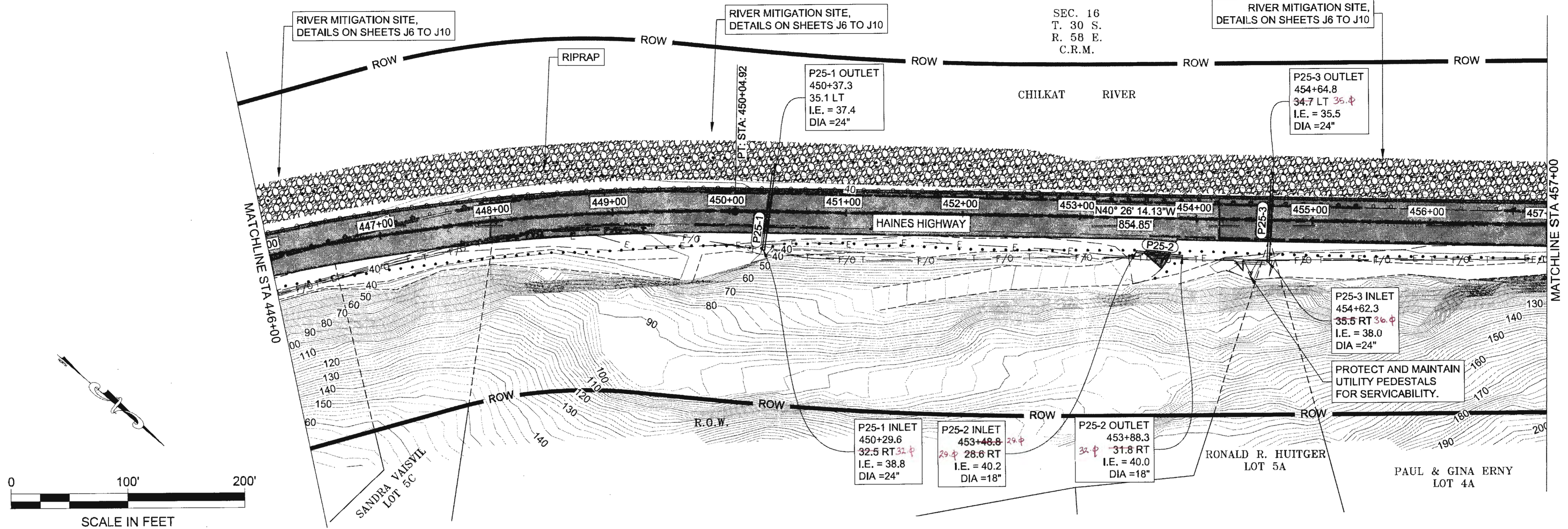
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F24	162

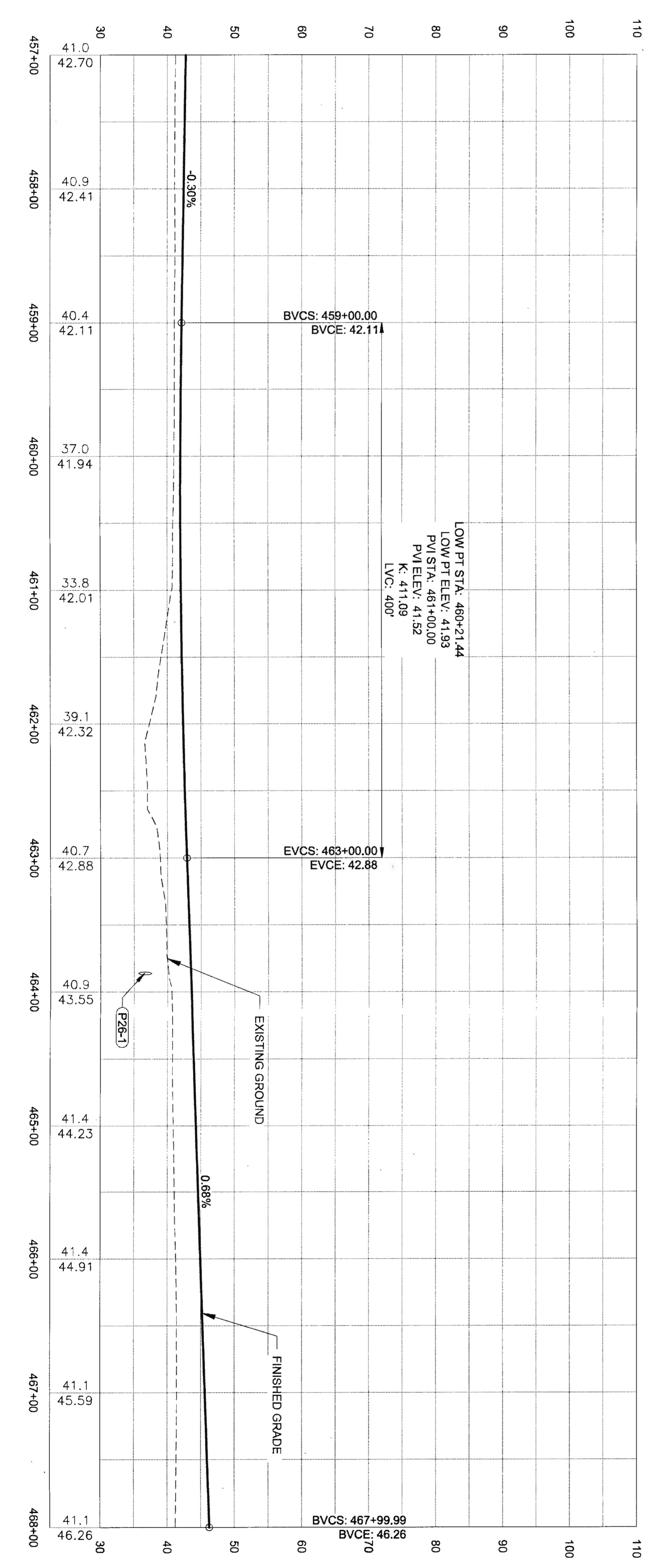
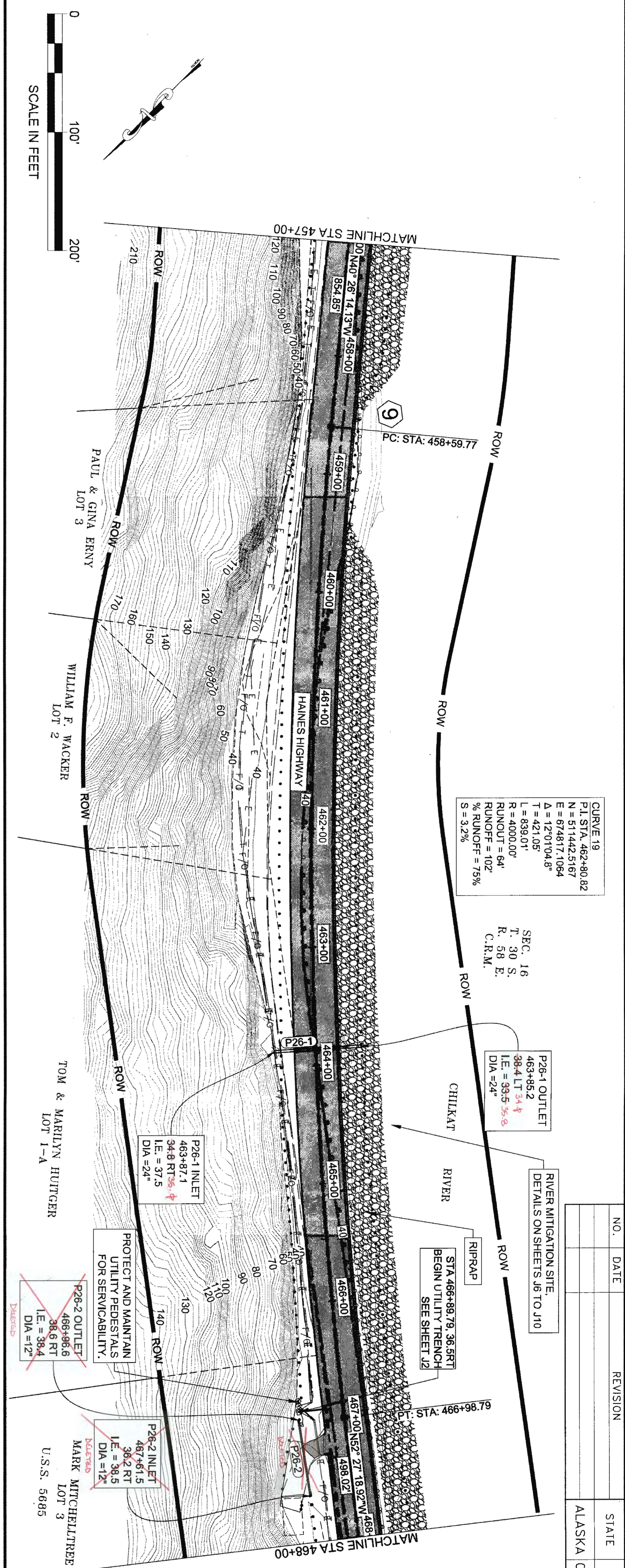


Rev 6-25-20

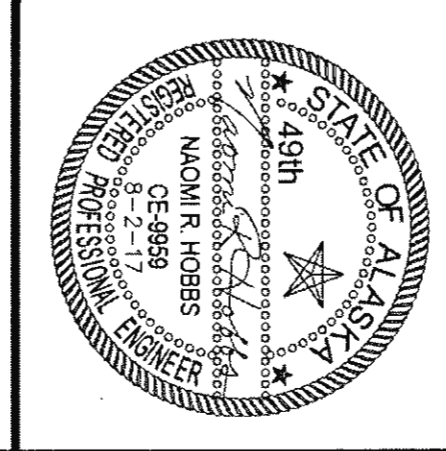
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F25	162

CERTIFICATE OF AUTH # : AECL848  
 CHECKED S. NOBLE DRAFTED S. TYLER  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 6/22/2017 12:34 LAYOUT F25  
 FIRM DOWL  
 FILE q:\24\61850-01\65CAD\mp 3-12 pse\F SHEETS\F21-F40.dwg

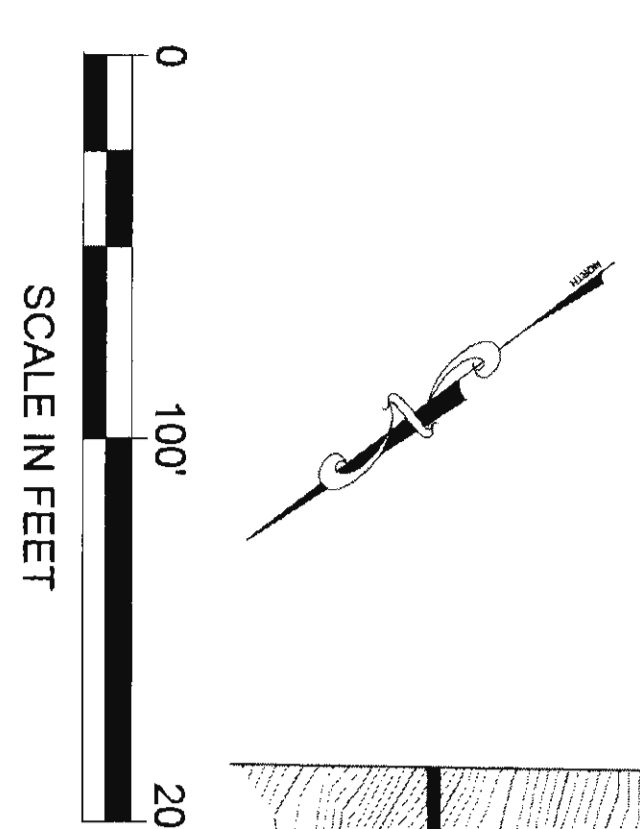
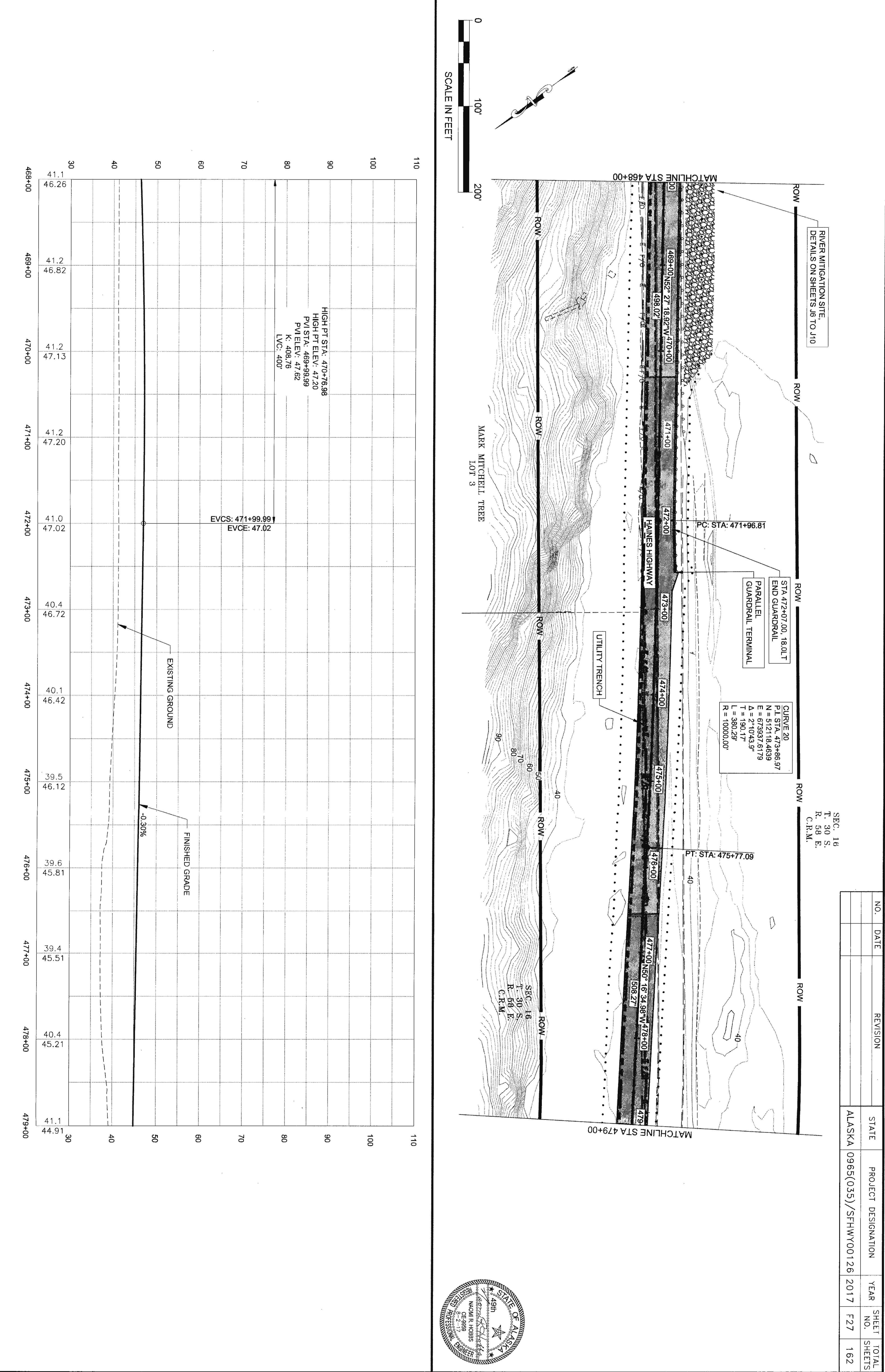




NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F26	162



7/10 6-25-20



Station	Existing Ground Elevation	Finished Grade Elevation
468+00	41.1	46.26
469+00	41.2	46.82
470+00	41.2	47.13
471+00	41.2	47.20
472+00	41.0	47.02
473+00	40.4	46.72
474+00	40.1	46.42
475+00	39.5	46.12
476+00	39.6	45.81
477+00	39.4	45.51
478+00	40.4	45.21
479+00	41.1	44.91

HIGH PT STA: 470+76.98  
 HIGH PT ELEV: 47.20  
 PVI STA: 469+99.99  
 PVI ELEV: 47.62  
 K: 408.76  
 LVC: 400'

EVCS: 471+99.99  
 EVCE: 47.02

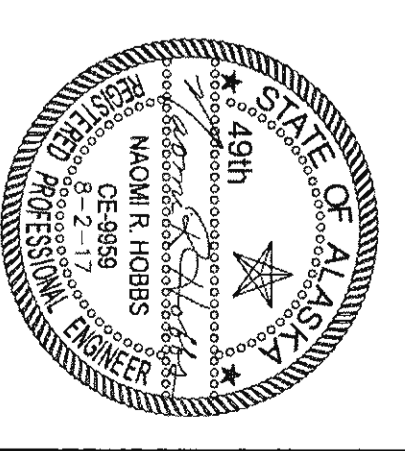
EXISTING GROUND  
 FINISHED GRADE  
 -0.30%

CURVE 20  
 PI STA: 473+66.97  
 N = 512118.4689  
 E = 673937.6179  
 Δ = 2°10'43.9"  
 L = 380.29'  
 R = 10000.00'

SIC 16  
 T: 30 S  
 R: 58 E  
 C.R.M.

SEC. 16  
 T. 30 S.  
 R. 58 E.  
 C.R.M.

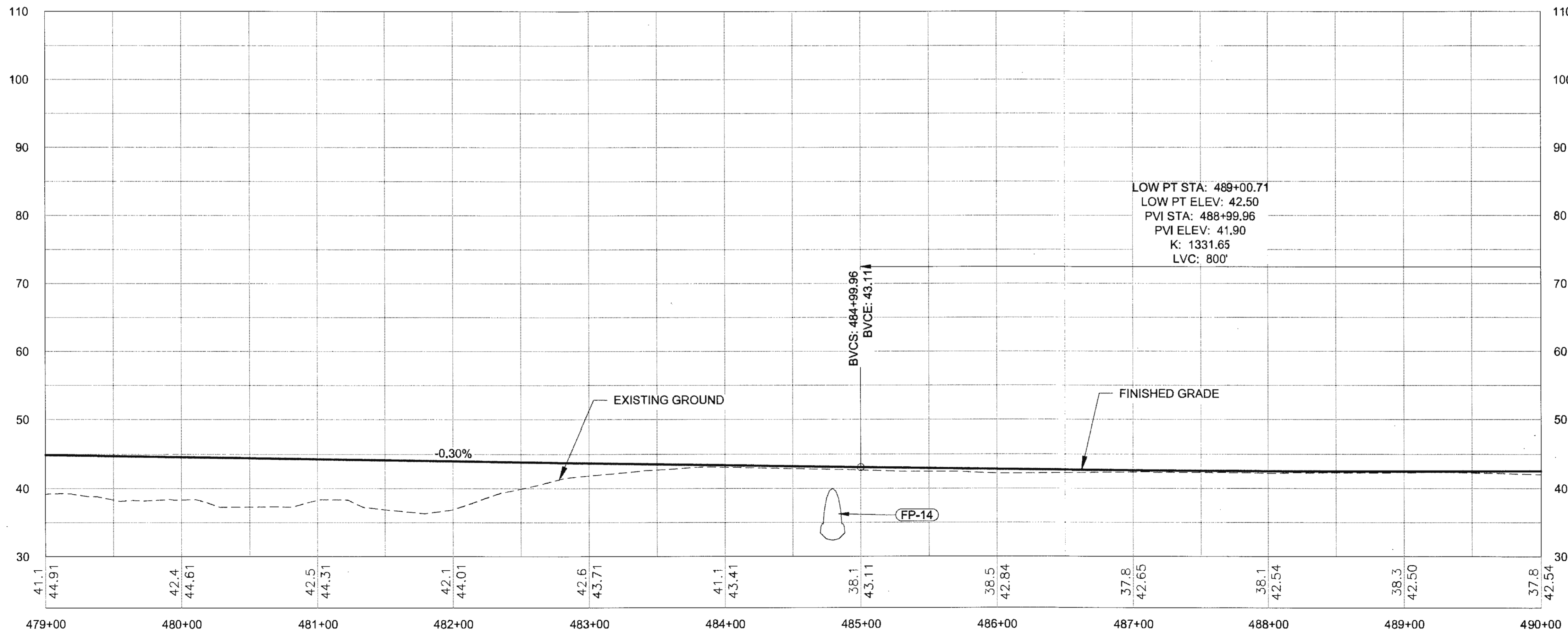
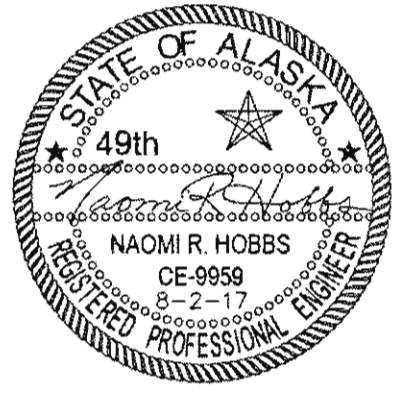
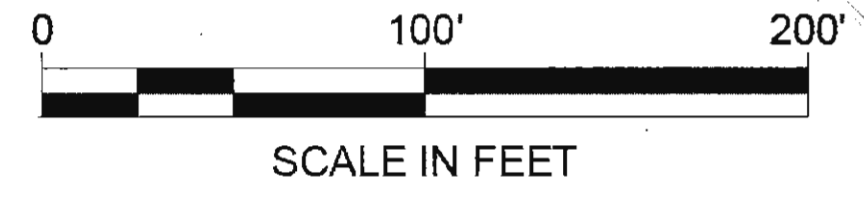
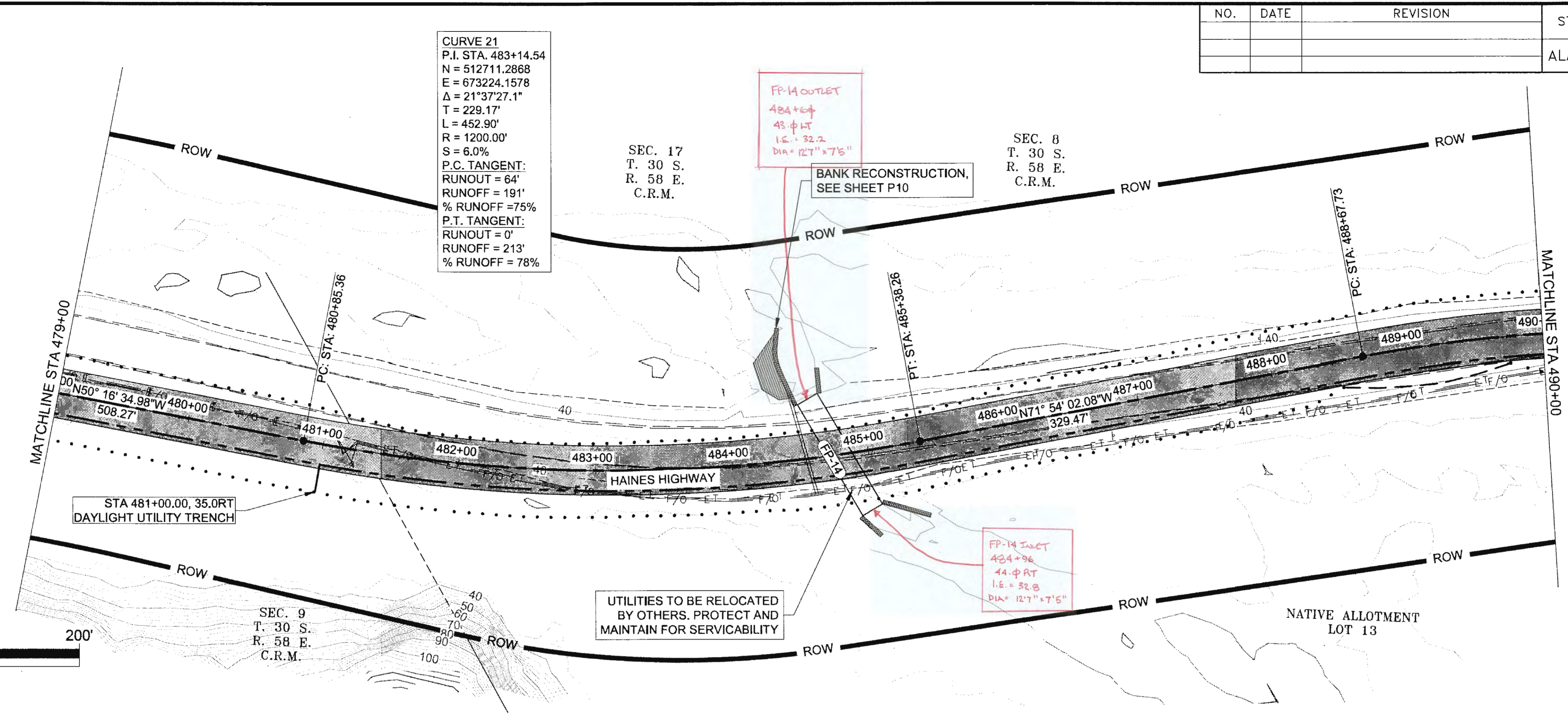
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHW00126	2017	F27	162



7/20/17 C. 08-20

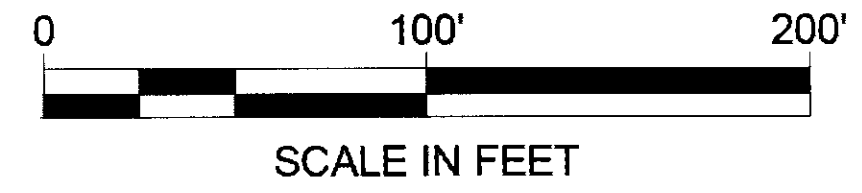
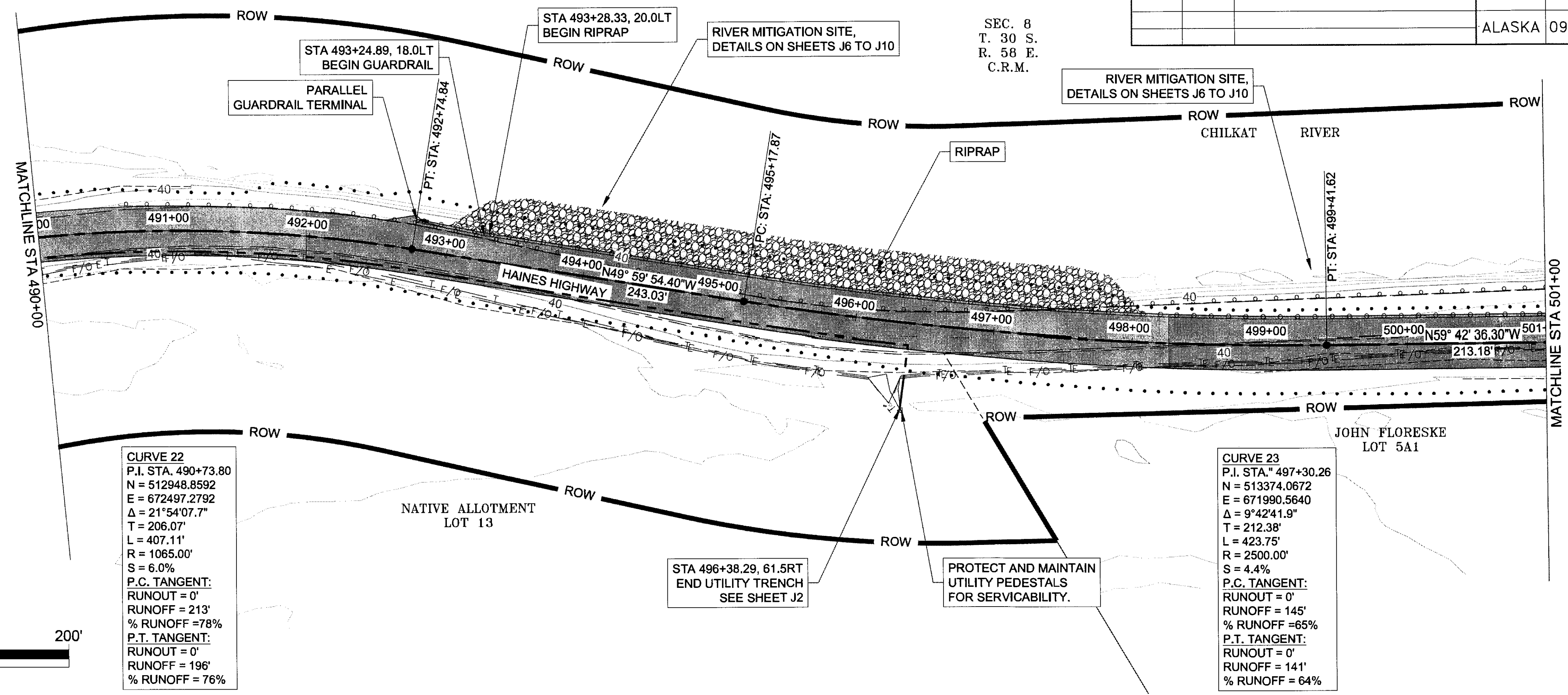
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F28	162

FIRM: DOWL  
 FILE: q:\24\61850-01\65CAD\mp 3-12 pset\ SHEETS\F-21-F40.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE: 6/22/2017 12:34  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 LAYOUT: F28  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1: AECLB48



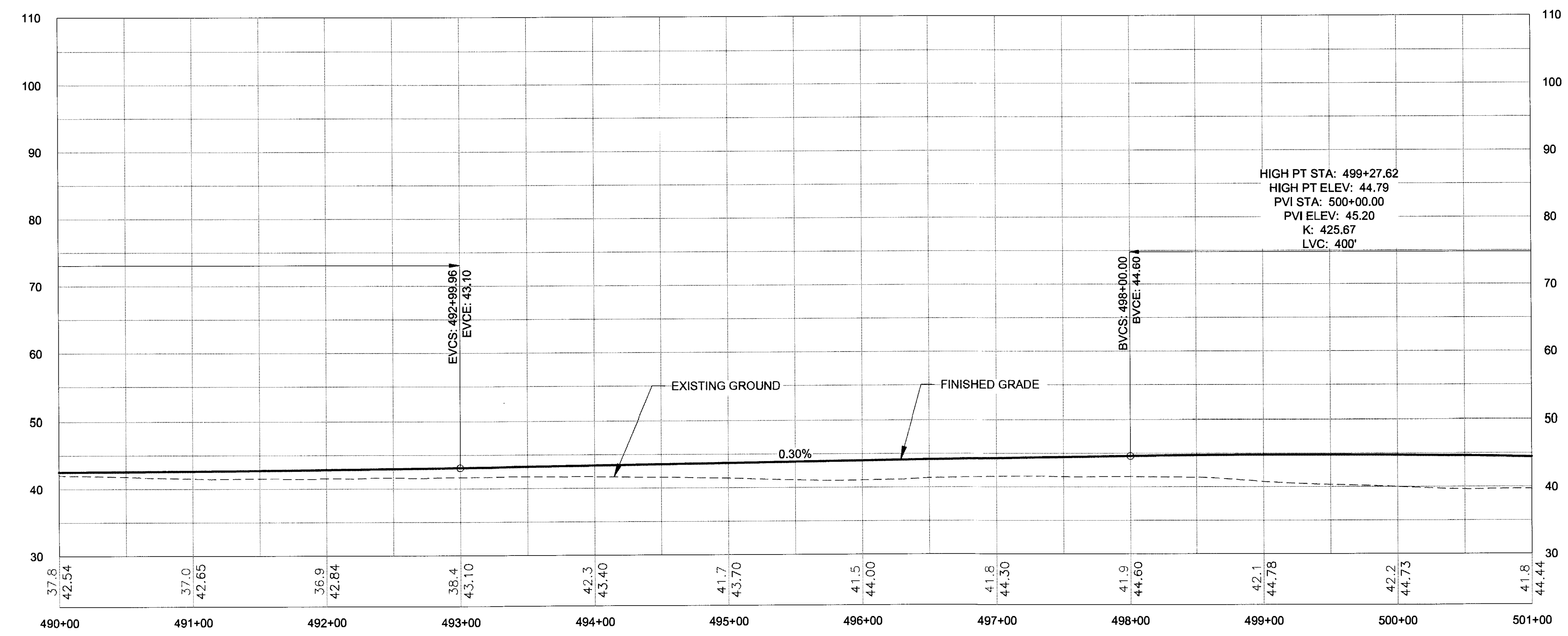
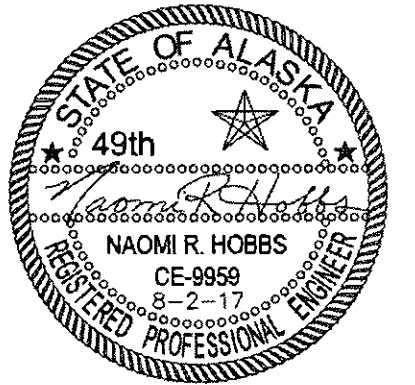
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F29	162

FIRM: DOWL  
 FILE: g:\24\161850-01\65CAD\mp 3-12 pse\F SHEETS\F21-F40.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AELB48  
 DATE: 6/22/2017 12:34 LAYOUT: F29



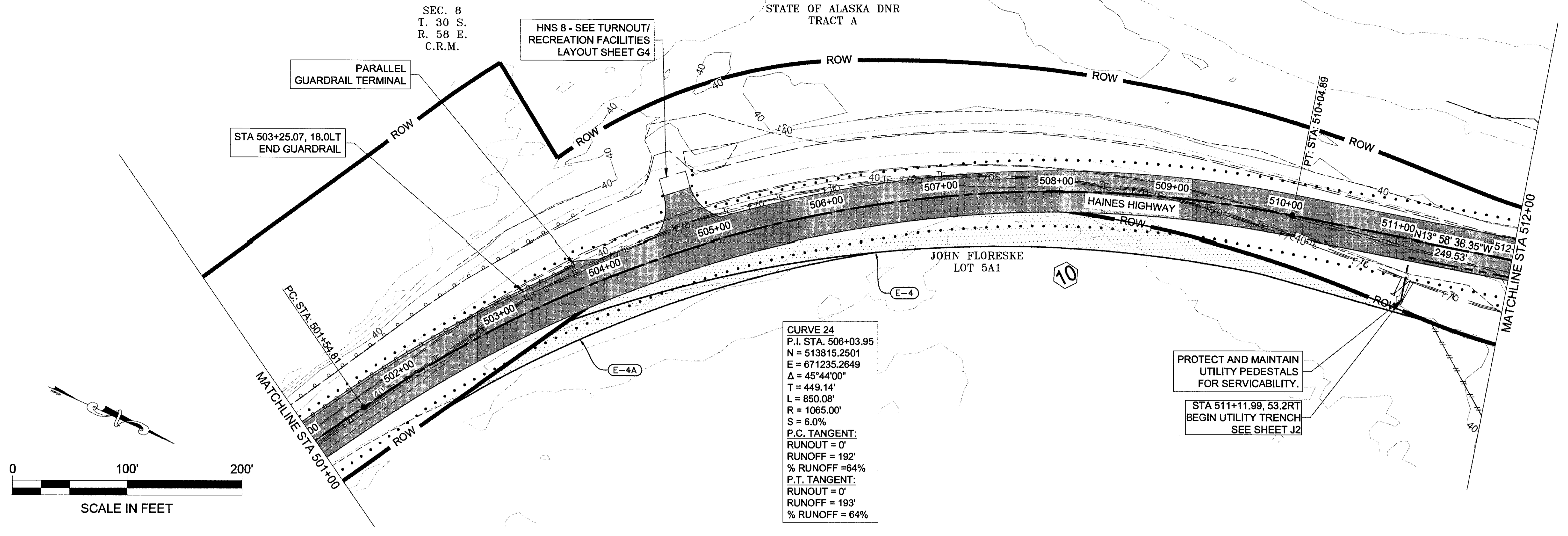
**CURVE 22**  
 P.I. STA. 490+73.80  
 N = 512948.8592  
 E = 672497.2792  
 $\Delta = 21^\circ 54' 07.7''$   
 T = 206.07'  
 L = 407.11'  
 R = 1065.00'  
 S = 6.0%  
 P.C. TANGENT:  
 RUNOUT = 0'  
 RUNOFF = 213'  
 % RUNOFF = 78%  
 P.T. TANGENT:  
 RUNOUT = 0'  
 RUNOFF = 196'  
 % RUNOFF = 76%

**CURVE 23**  
 P.I. STA. 497+30.26  
 N = 513374.0672  
 E = 671990.5640  
 $\Delta = 9^\circ 42' 41.9''$   
 T = 212.38'  
 L = 423.75'  
 R = 2500.00'  
 S = 4.4%  
 P.C. TANGENT:  
 RUNOUT = 0'  
 RUNOFF = 145'  
 % RUNOFF = 65%  
 P.T. TANGENT:  
 RUNOUT = 0'  
 RUNOFF = 141'  
 % RUNOFF = 64%



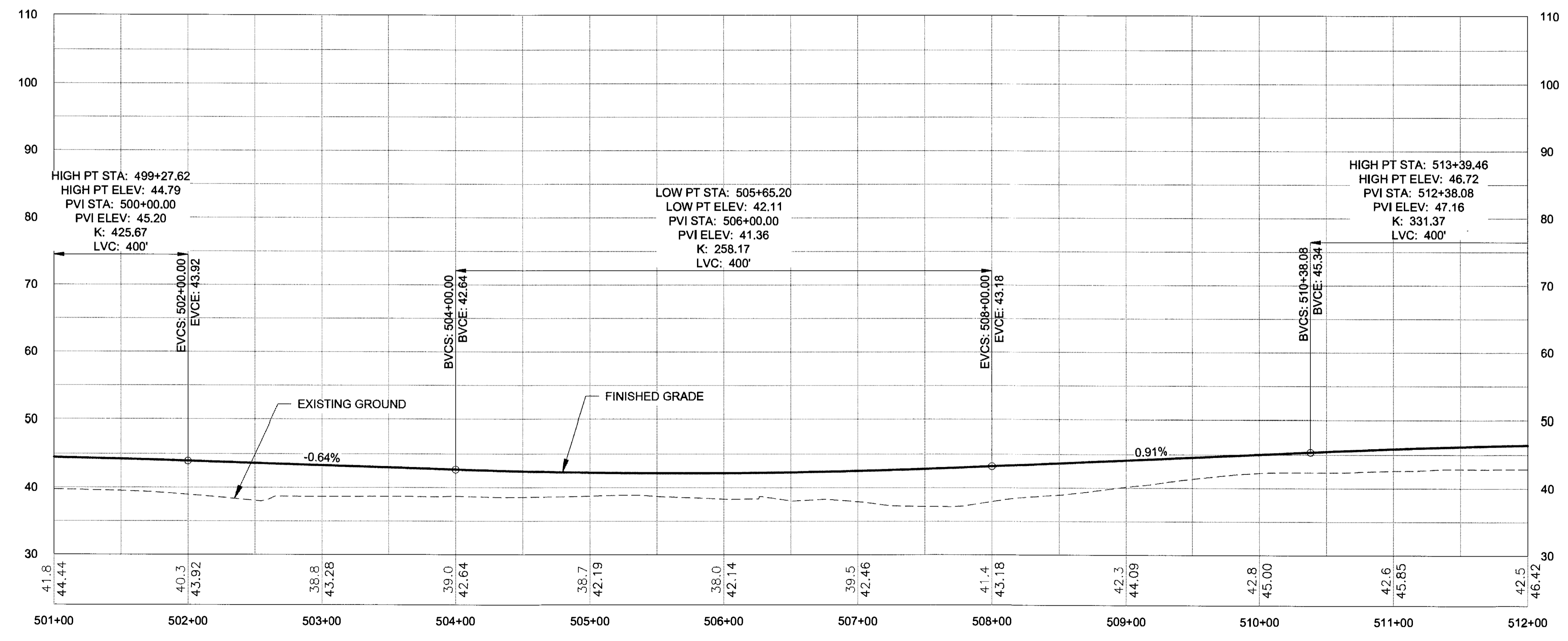
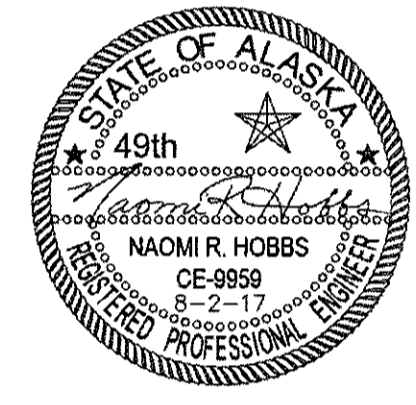
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F30	162

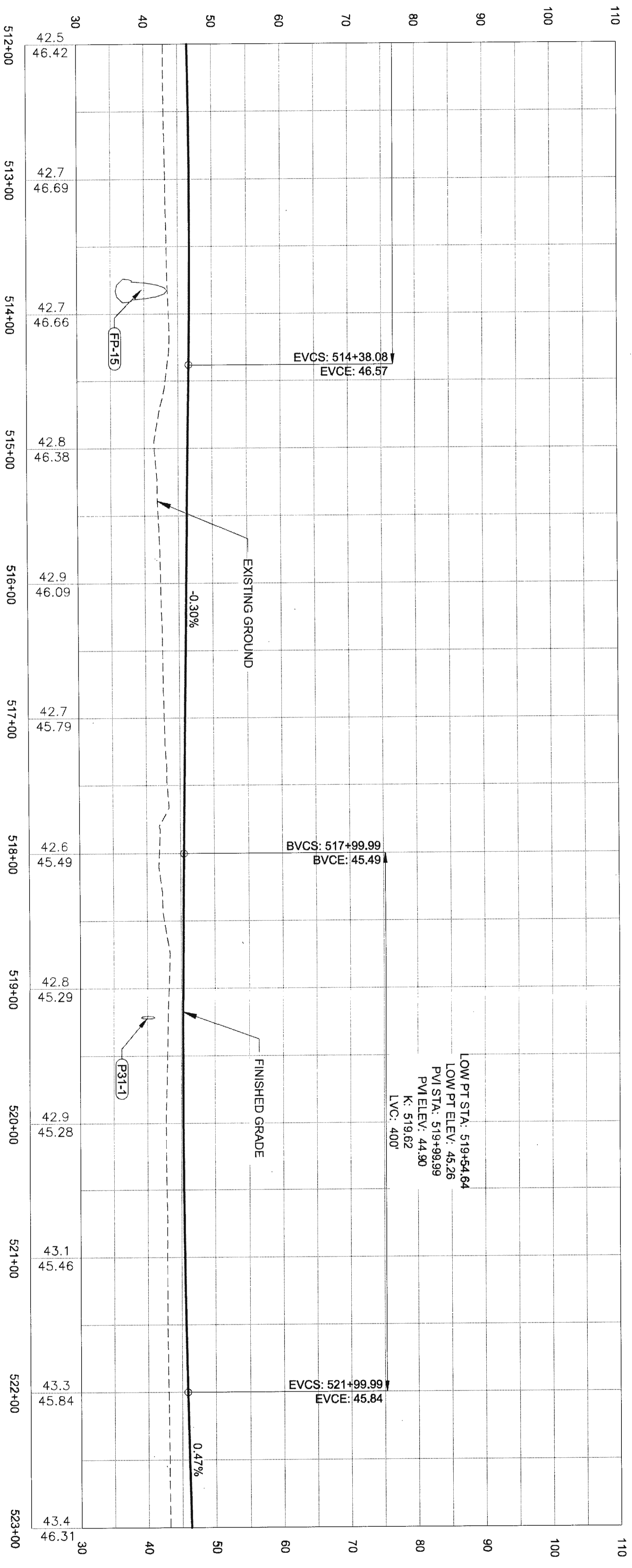
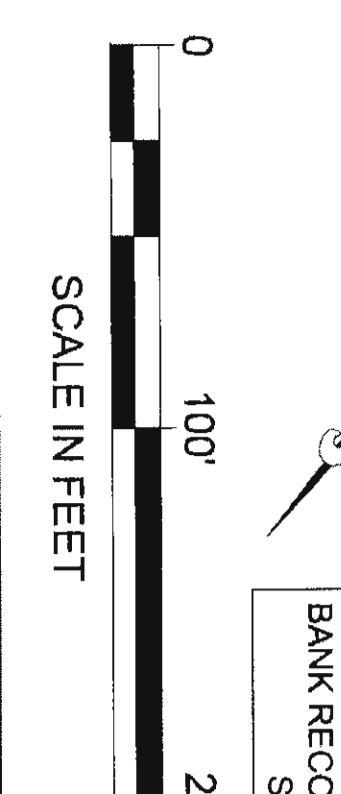
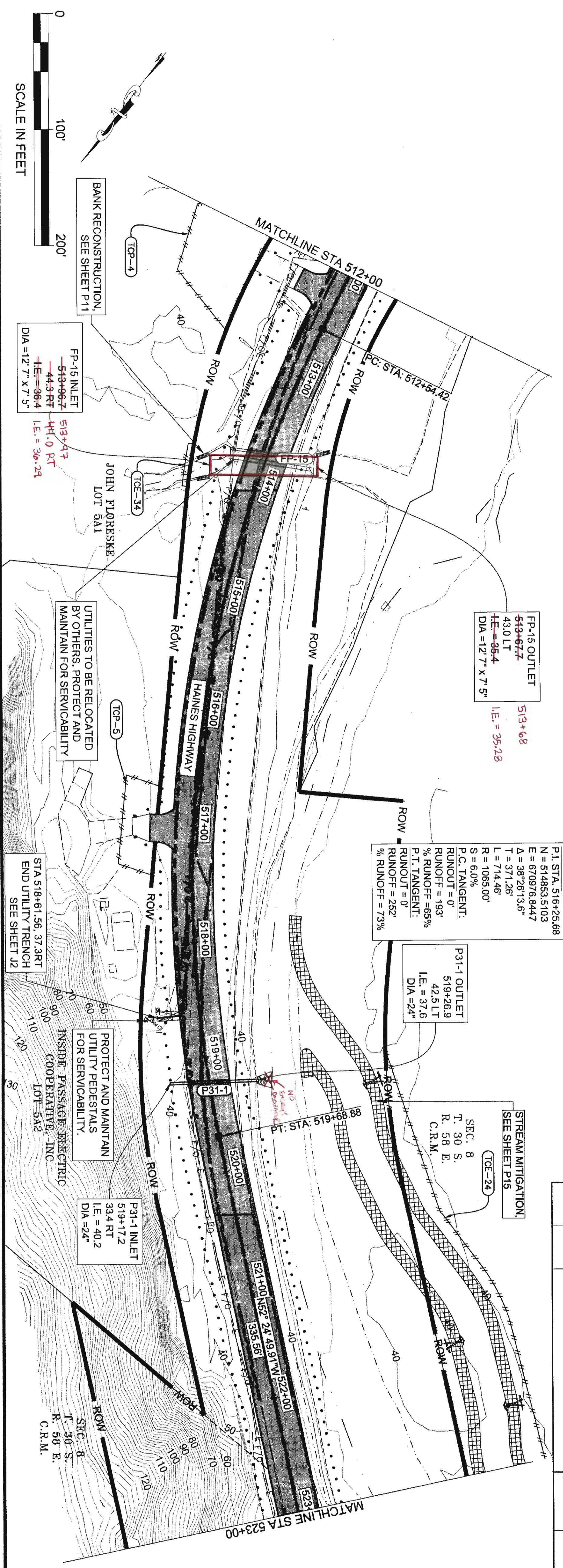
FIRM: DOWL  
 FILE: q:\24\161850-01\65CAD\mp 3-12.pse\F SHEETS\F21-F40.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/22/2017 12:34  
 LAYOUT: F30  
 CERTIFICATE OF AUTH #1: AECLB48  
 S. TYLER



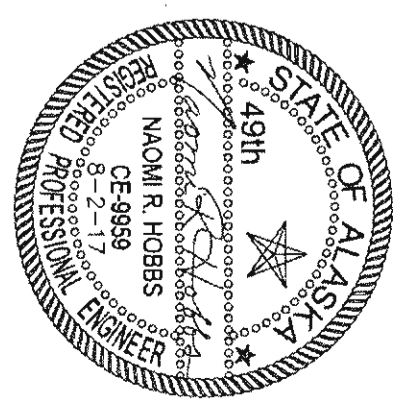
**CURVE 24**  
 P.I. STA: 506+03.95  
 N = 513815.2501  
 E = 671235.2649  
 $\Delta = 45^\circ 44' 00''$   
 T = 449.14'  
 L = 850.08'  
 R = 1065.00'  
 S = 6.0%  
 P.C. TANGENT:  
 RUNOUT = 0'  
 RUNOFF = 192'  
 % RUNOFF = 64%  
 P.T. TANGENT:  
 RUNOUT = 0'  
 RUNOFF = 193'  
 % RUNOFF = 64%

PROTECT AND MAINTAIN  
 UTILITY PEDESTALS  
 FOR SERVICABILITY.  
 STA 511+11.99, 53.2RT  
 BEGIN UTILITY TRENCH  
 SEE SHEET J2



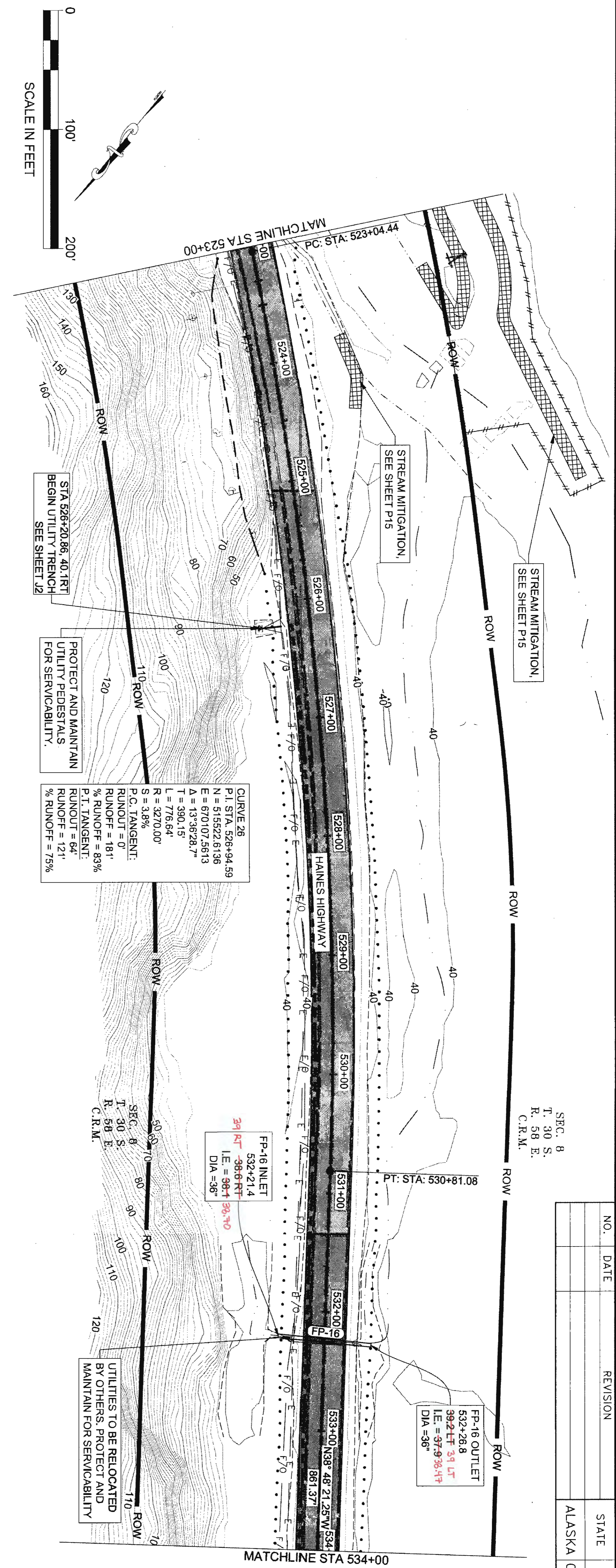
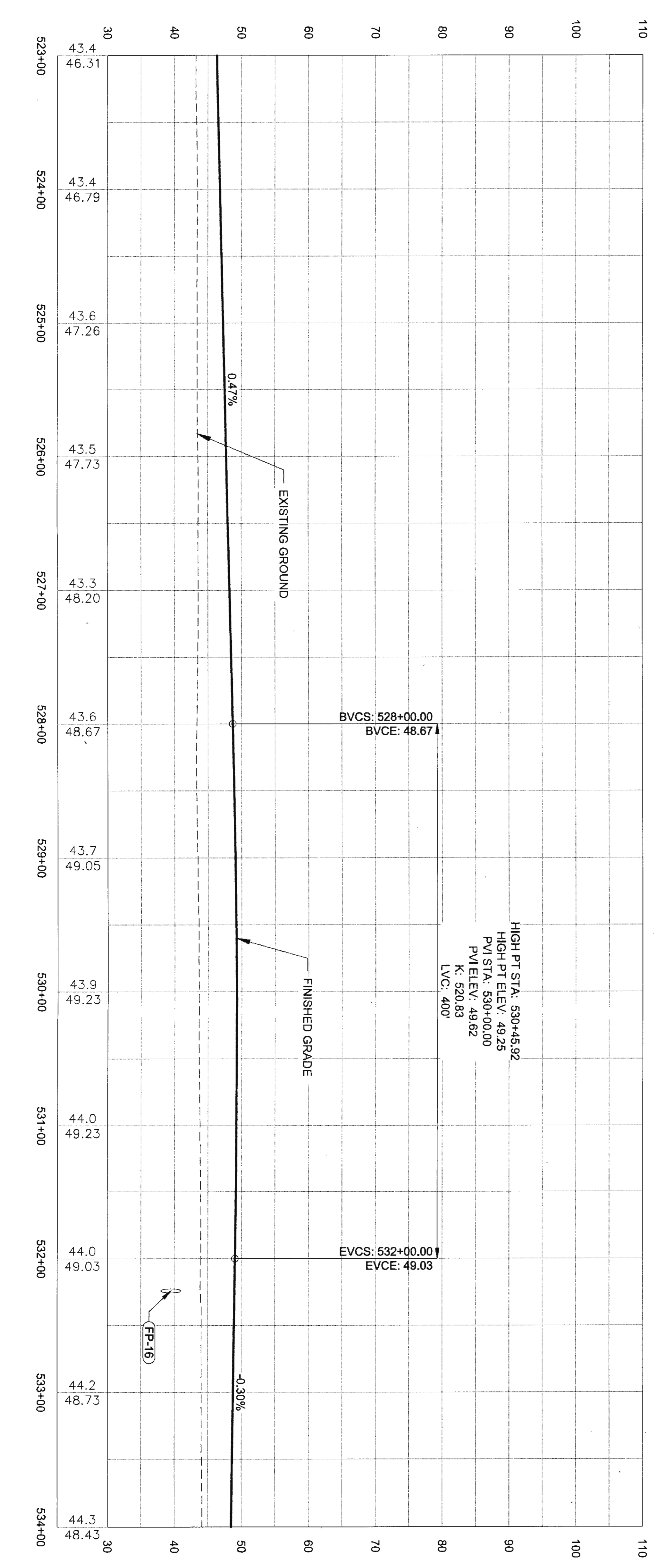


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F31	162

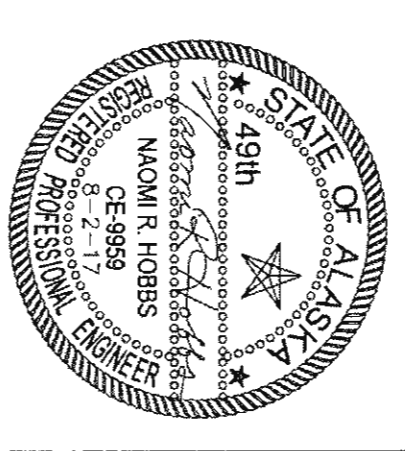


720 6-25-20



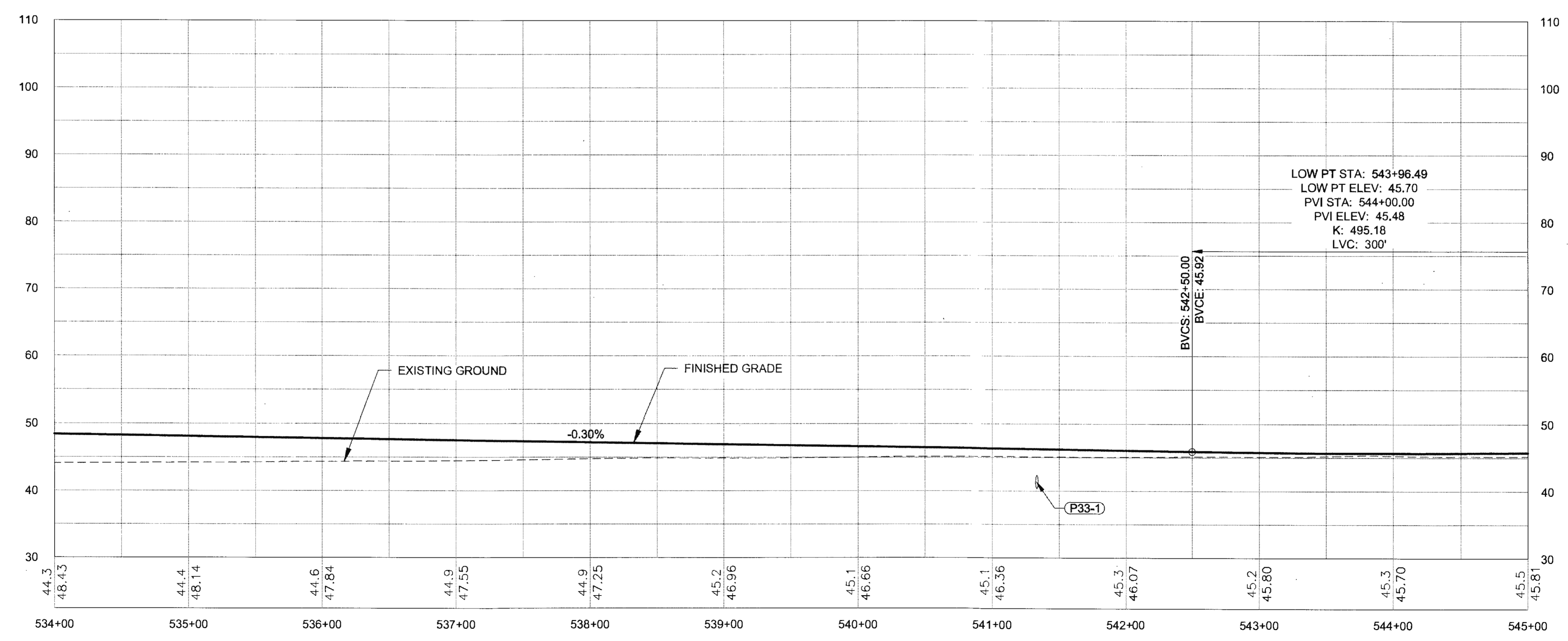
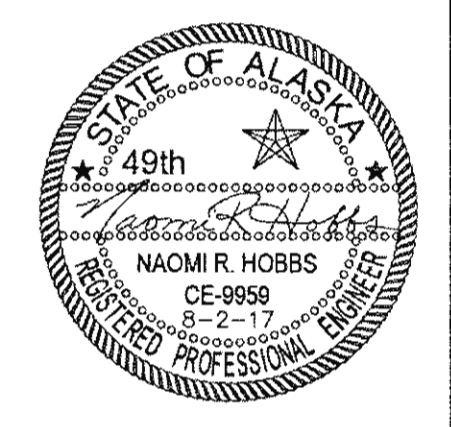
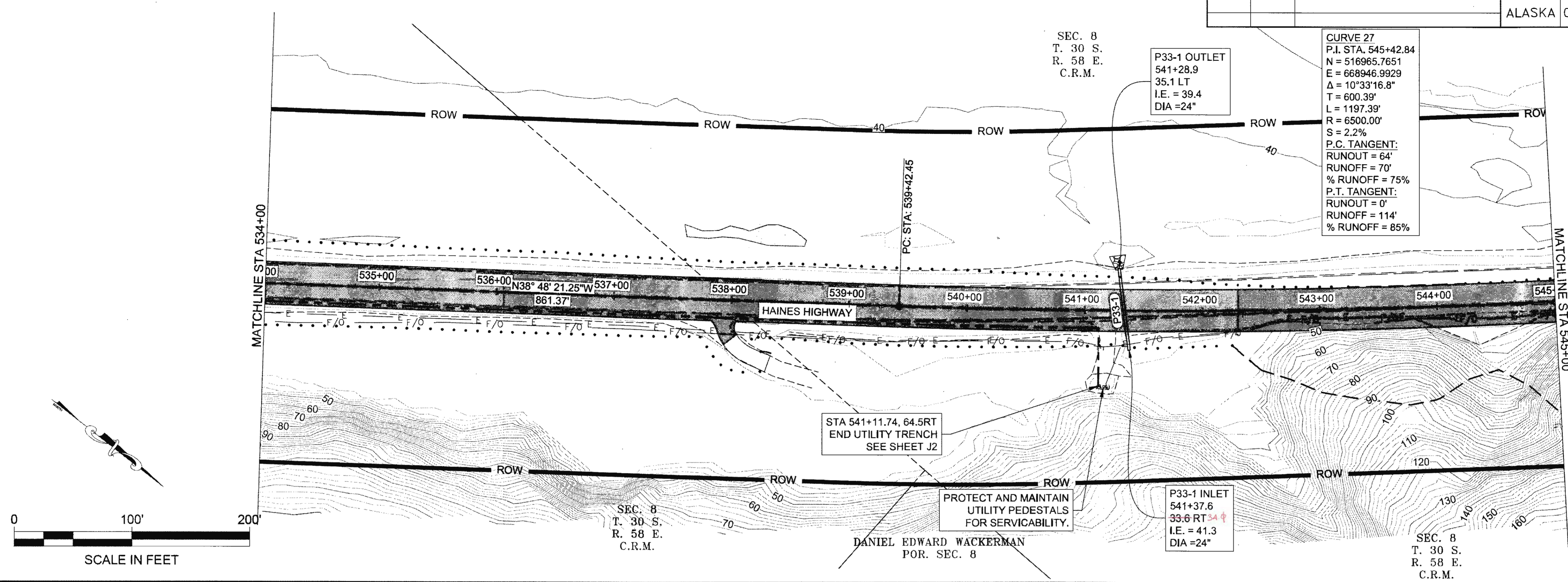


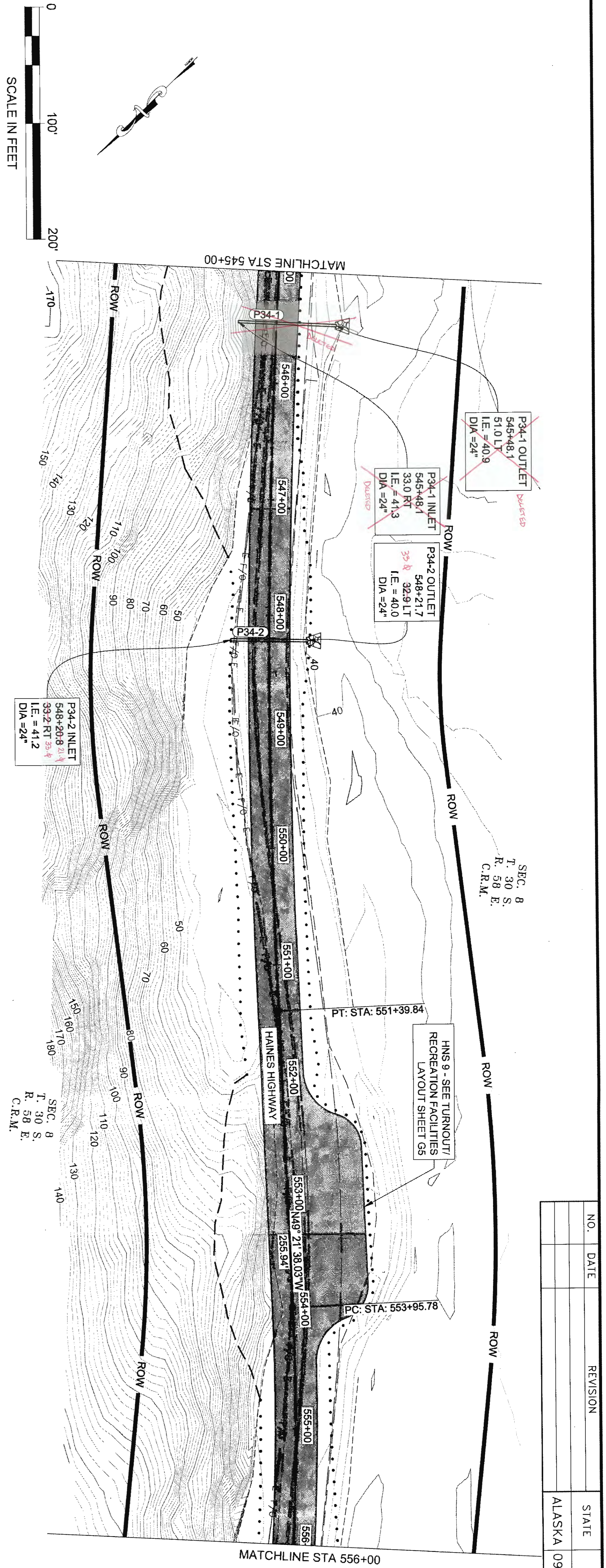
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F32	162



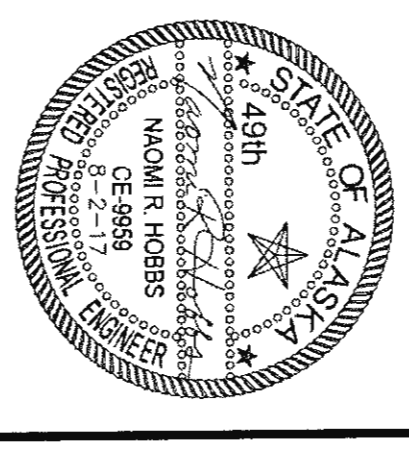
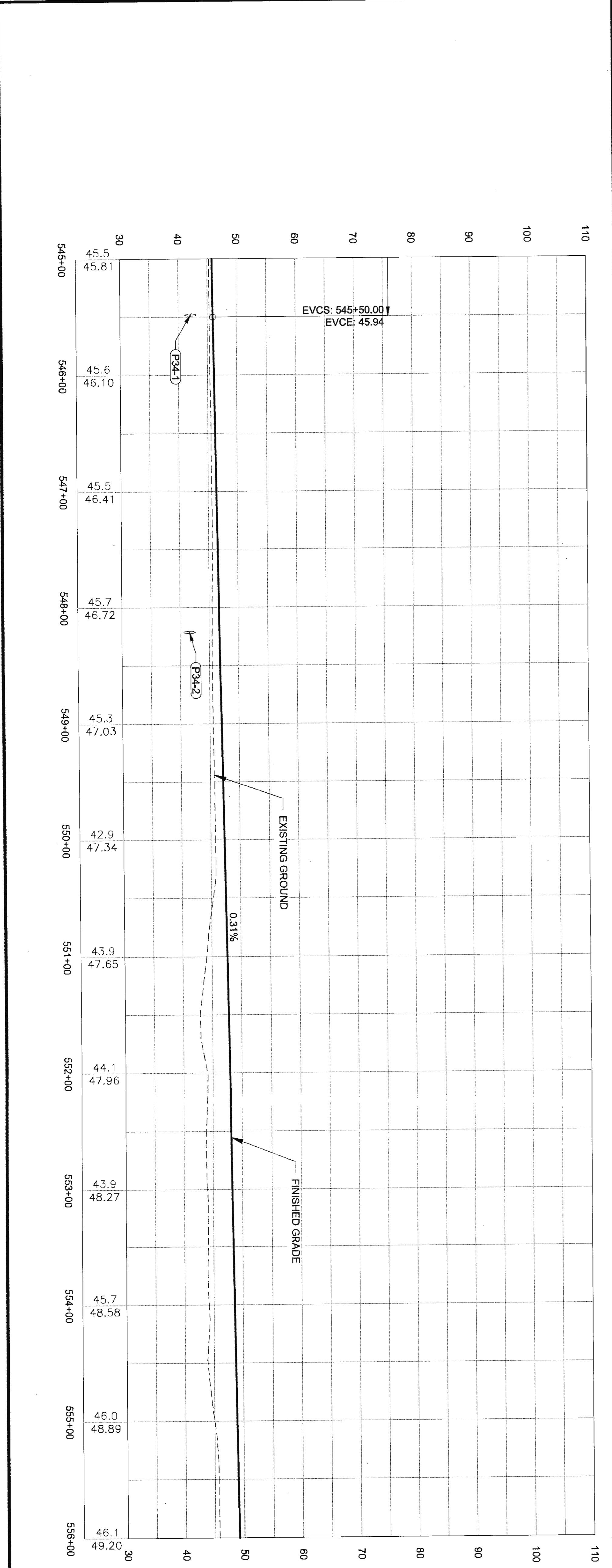
FIRM: DOWL  
 FILE: q:\2A\61850-01\65CAD\mp\_3-12 pss\F SHEET\S\F21-F40.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/22/2017 12:34  
 LAYOUT: F33

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F33	162





NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F34	162

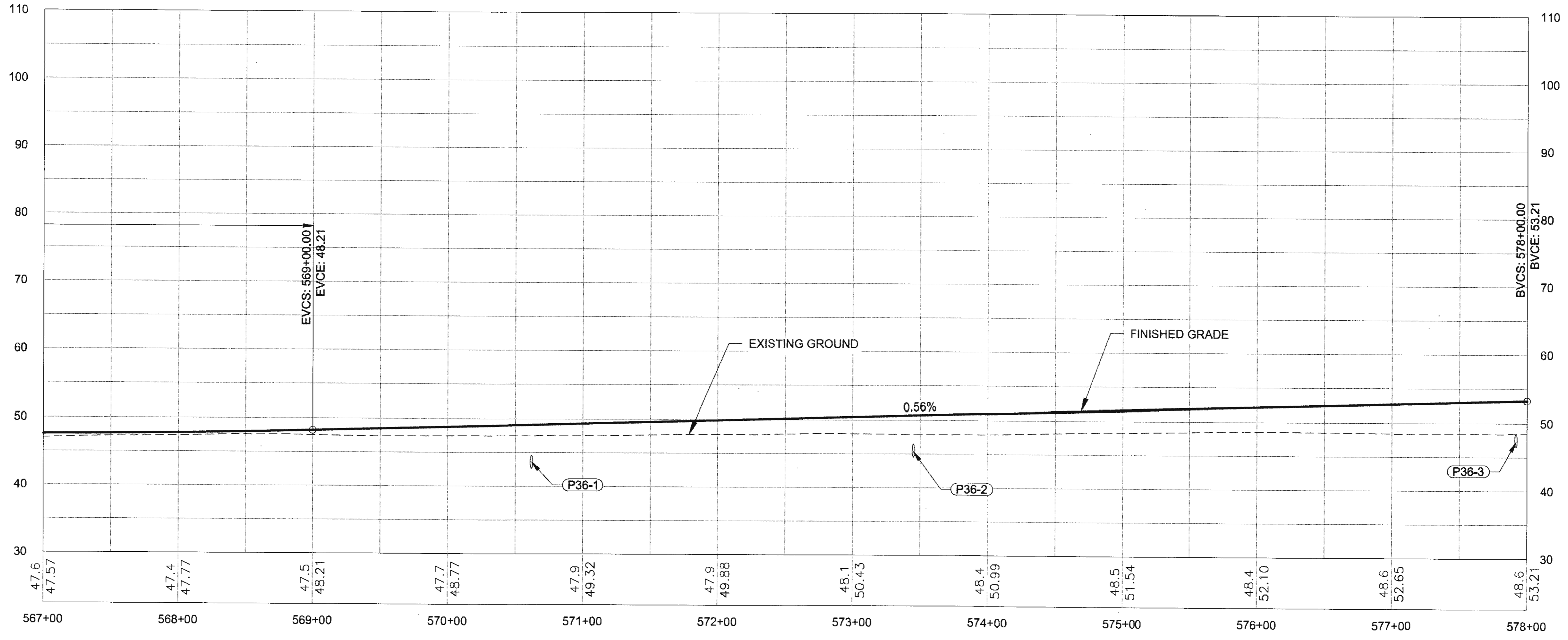
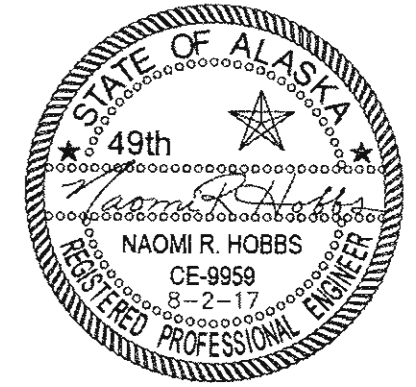
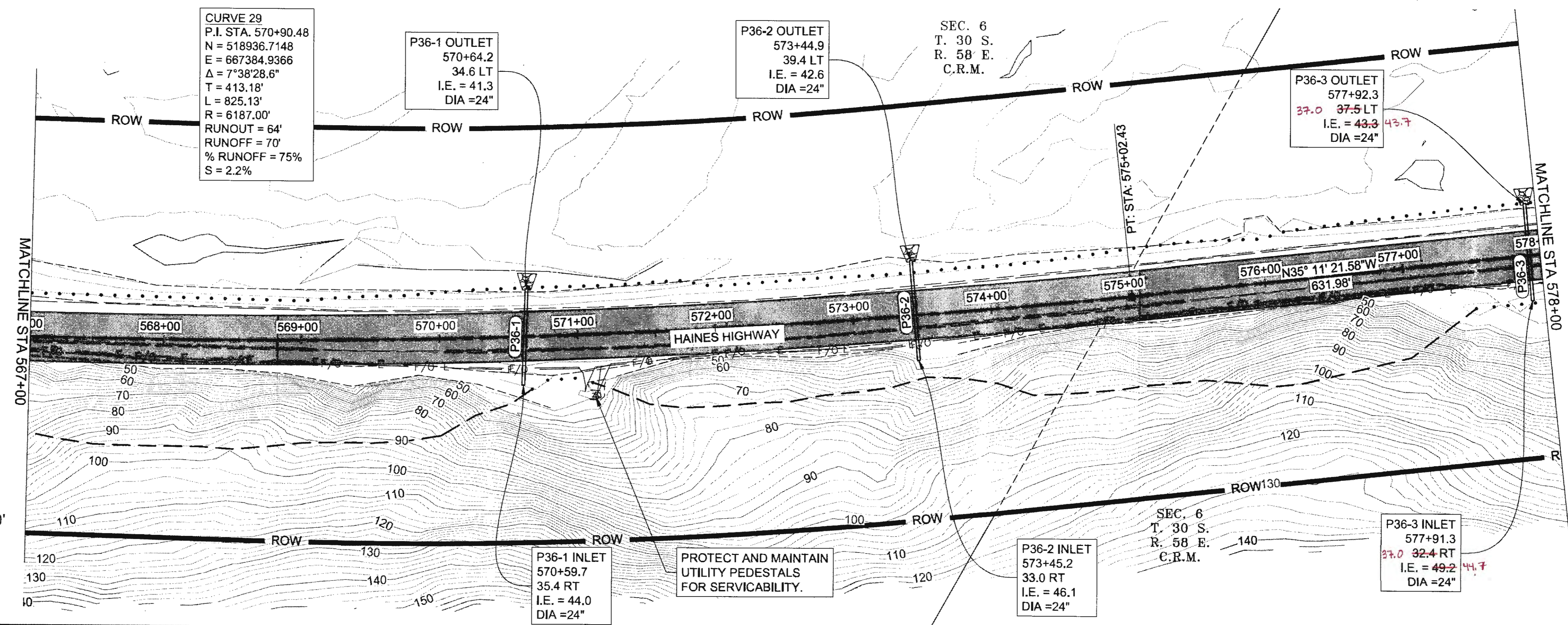
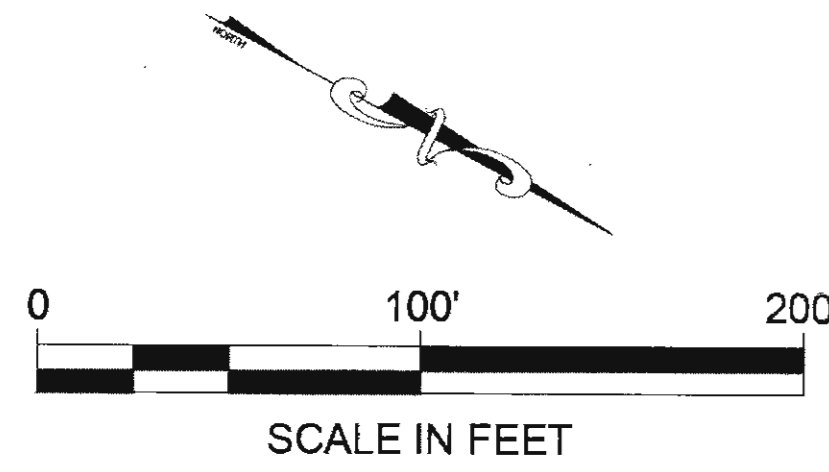


TKD 6-25-20



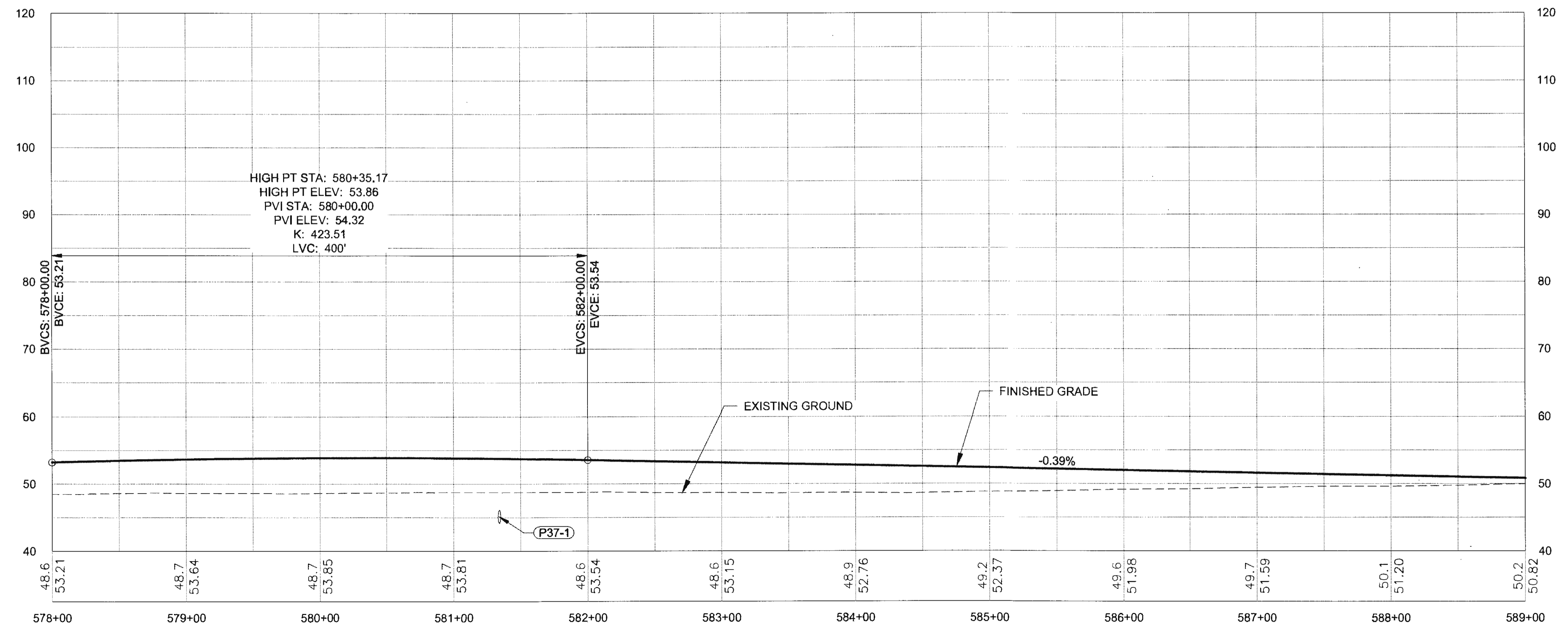
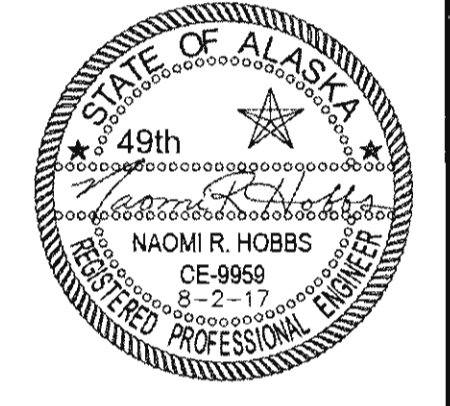
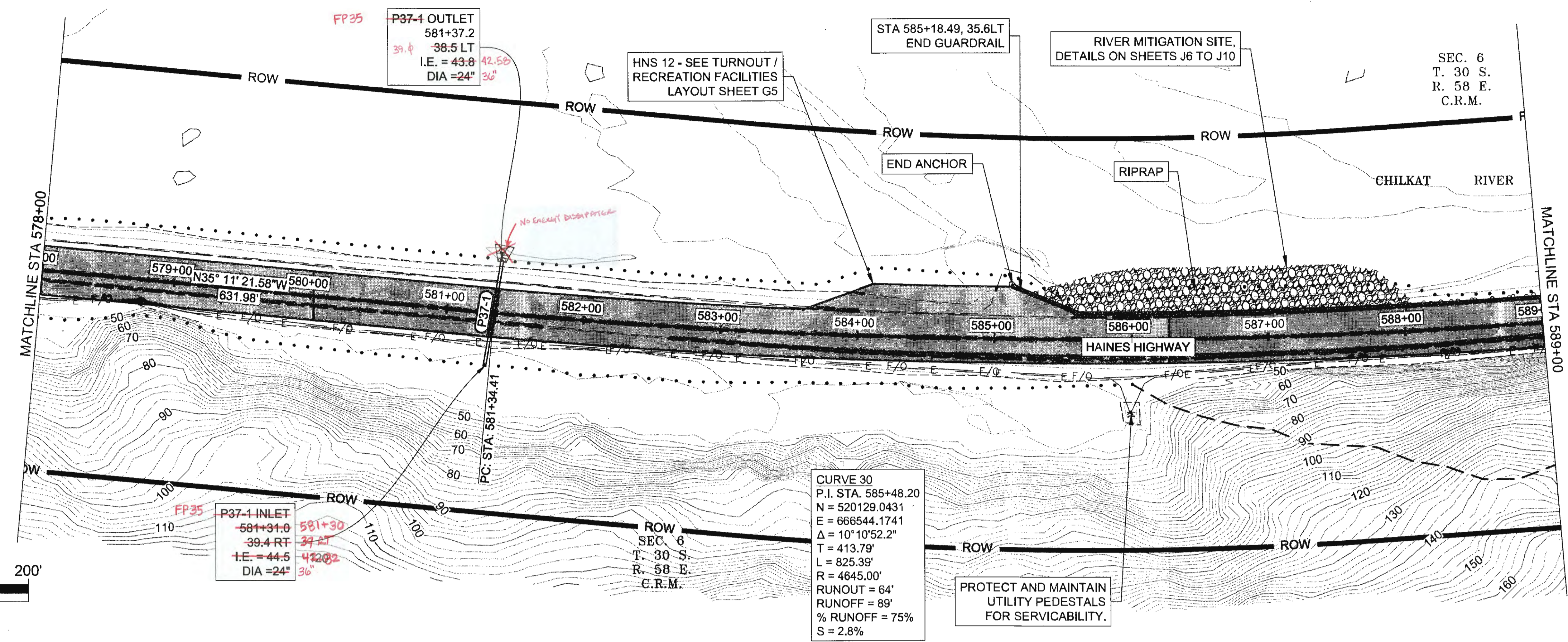
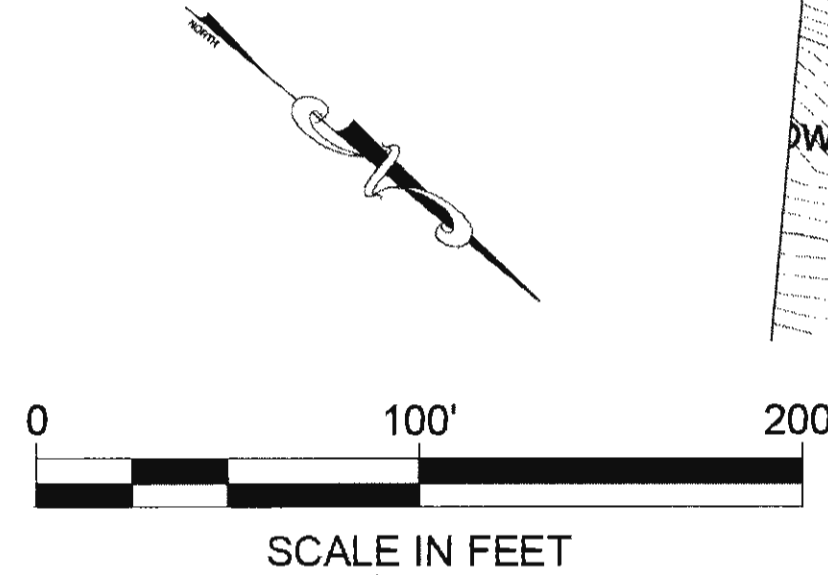
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F36	162

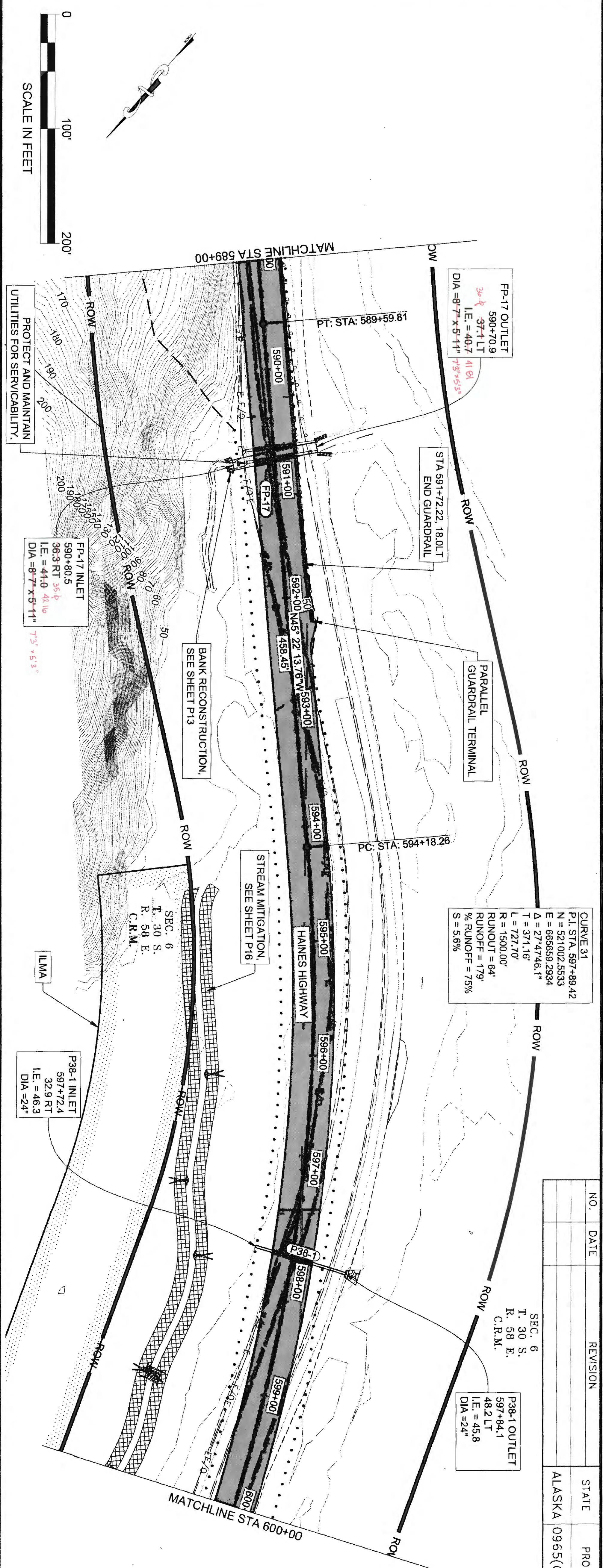
FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/22/2017 12:34  
 LAYOUT: F.36  
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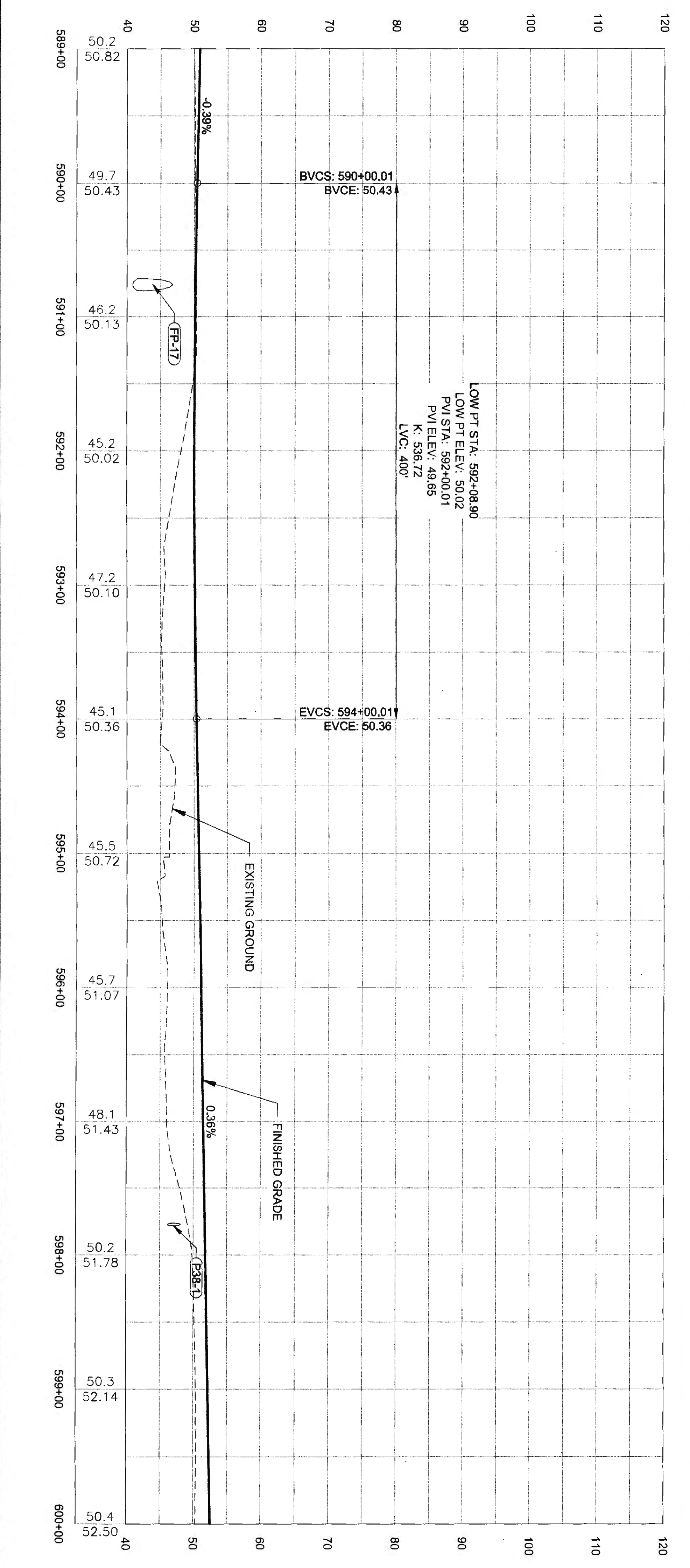
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F37	162

FIRM: DOWL  
 FILE: q:\24\1850-01\65CAD\mp\_3-12\_pse\F\_SHEETS\F21-F40.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99901  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/22/2017 12:34  
 LAYOUT: F37

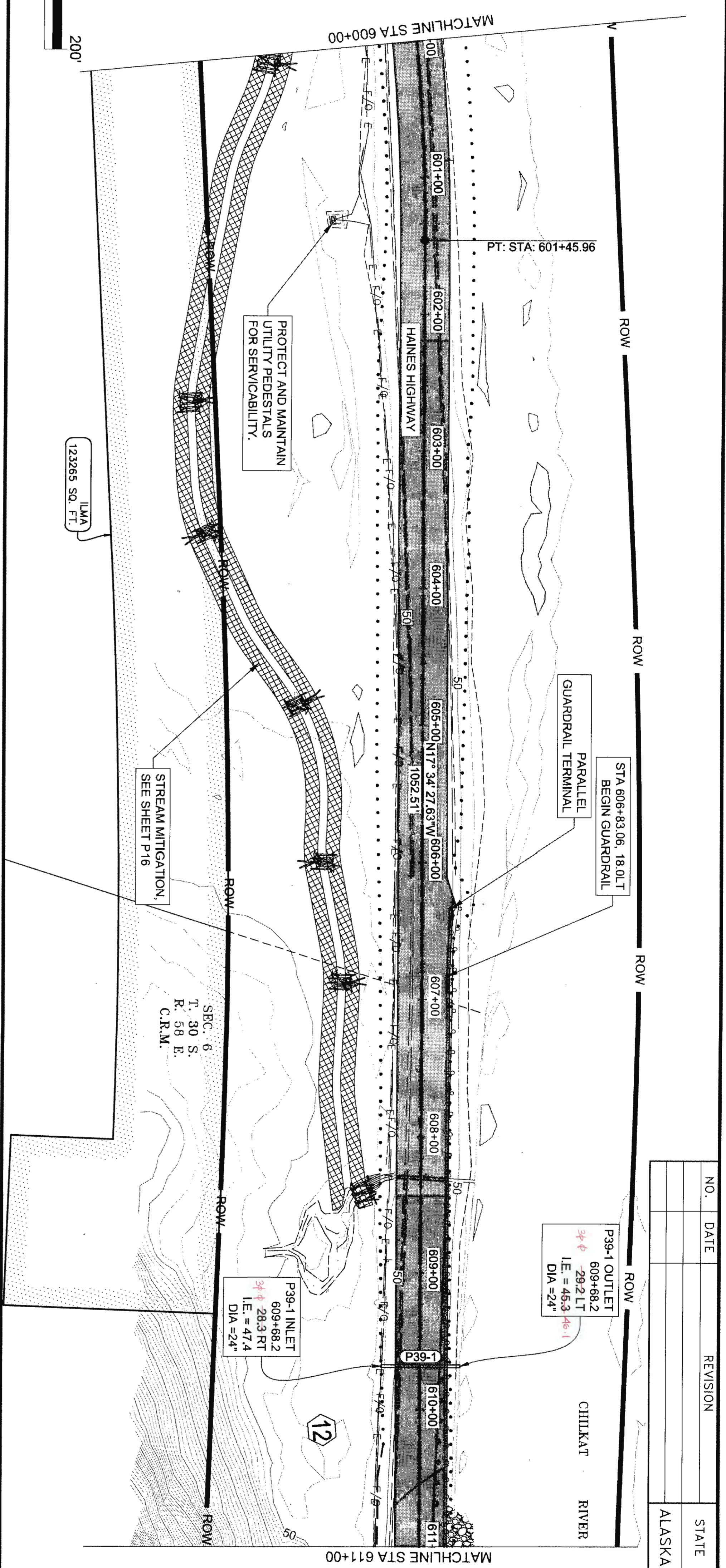




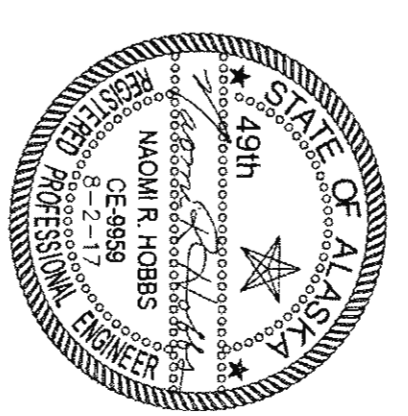
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F38	162



Thu 6-25-20



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F39	162



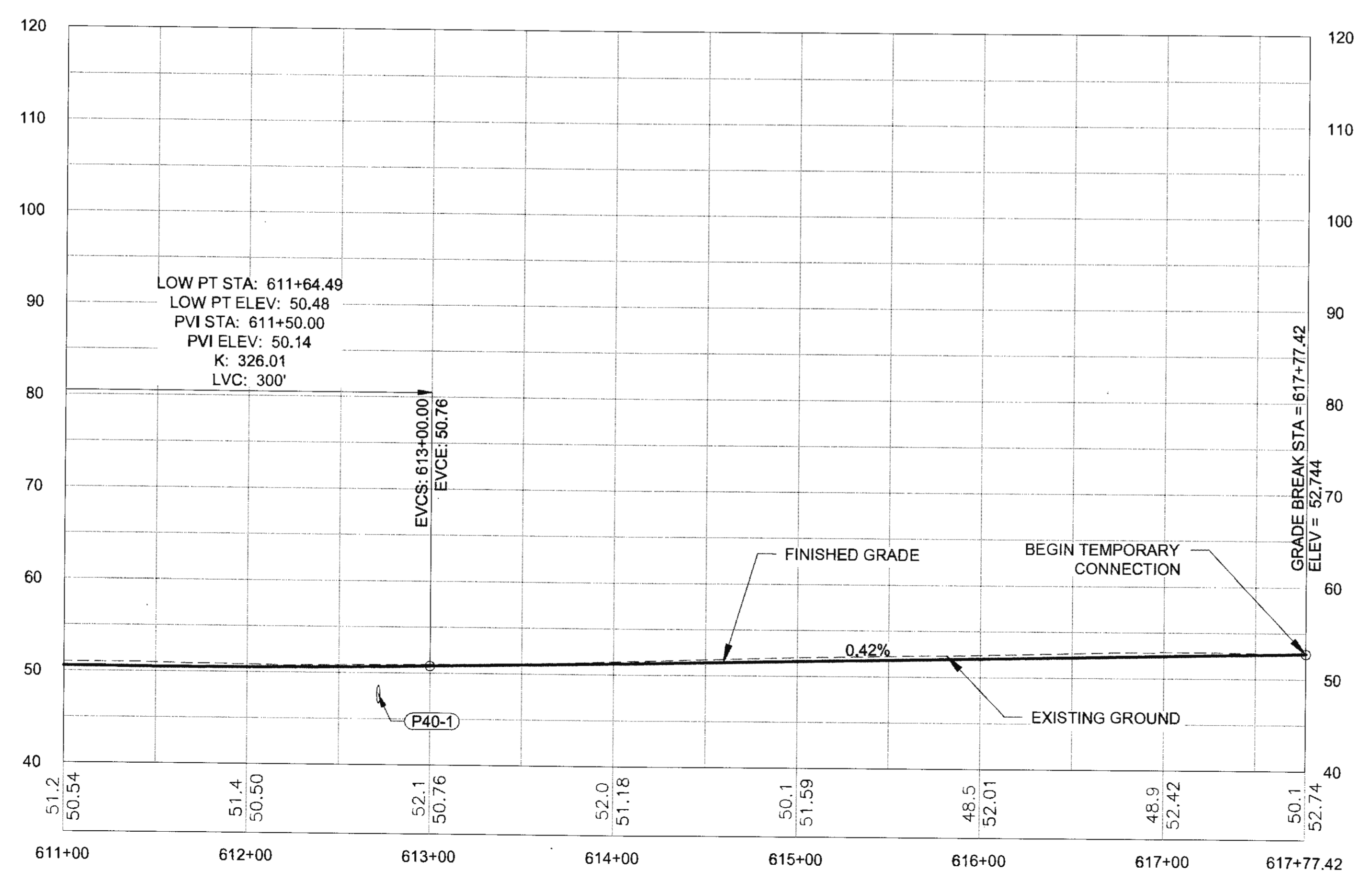
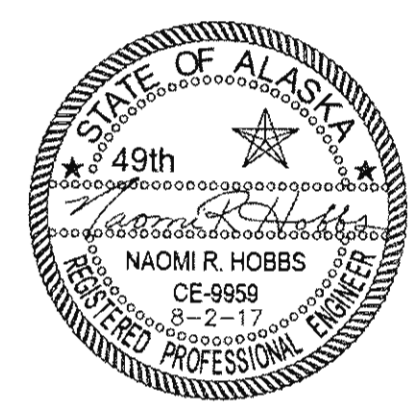
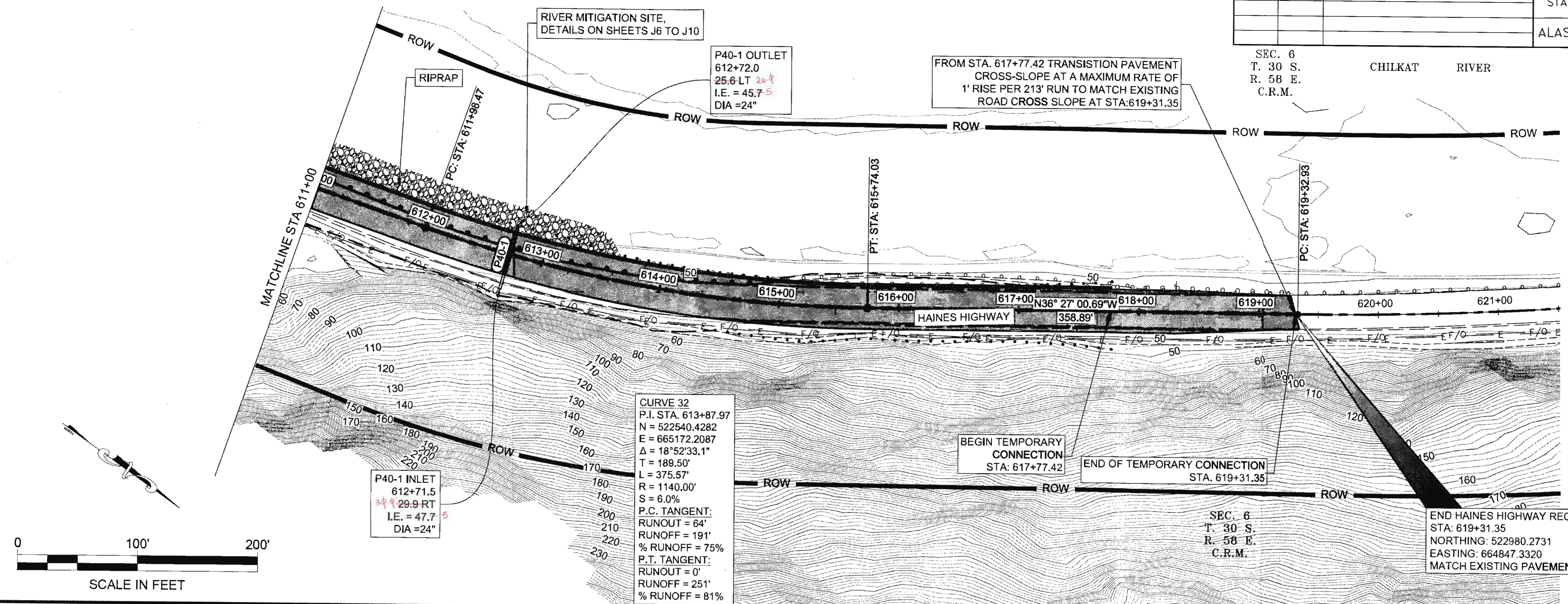
72.1 6-28-20



FIRM: DOWL  
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 6/22/2017 12:34  
 LAYOUT: F40  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

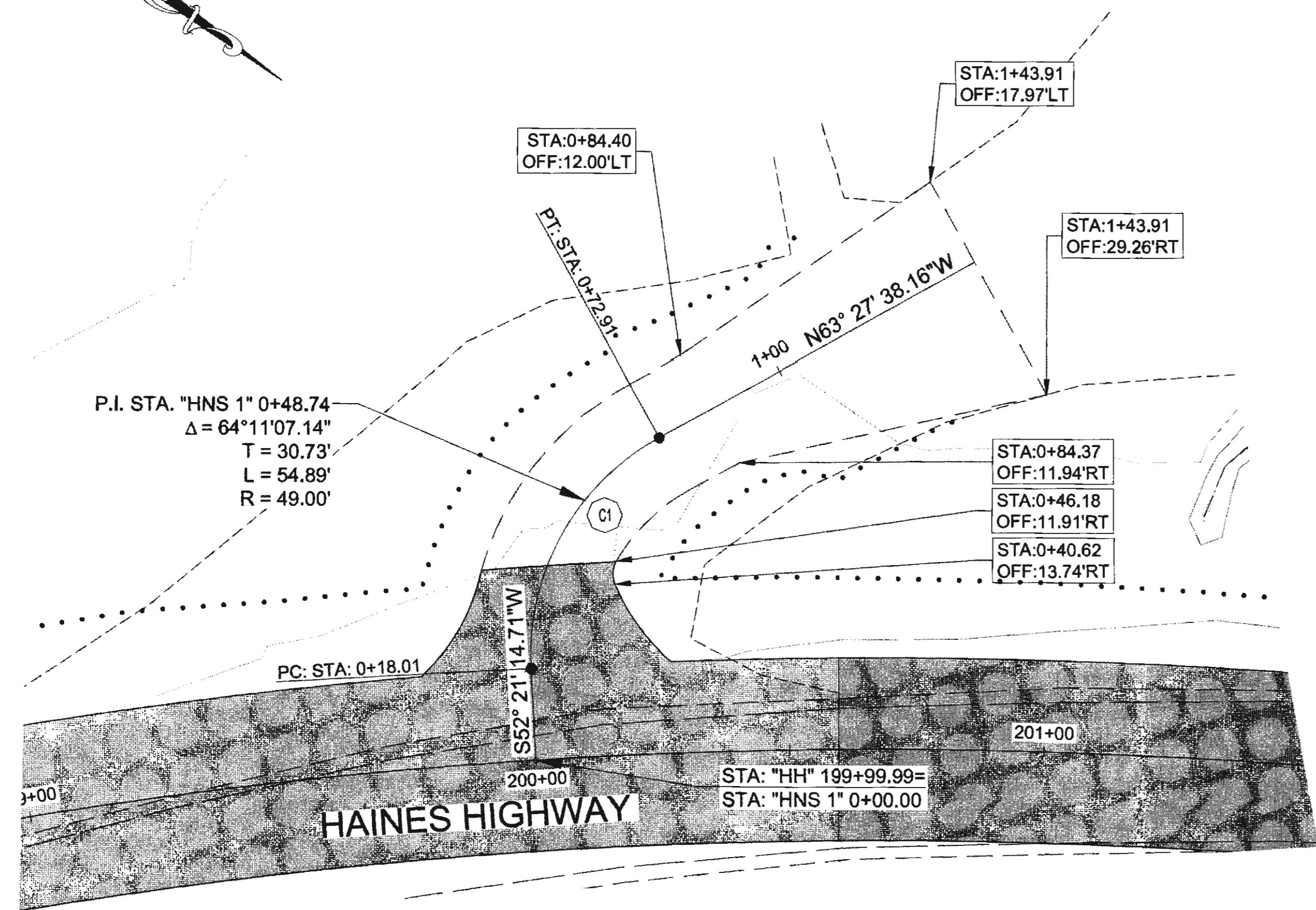
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	F40	162

SEC. 6  
 T. 30 S.  
 R. 58 E.  
 C.R.M.  
 CHILKAT RIVER



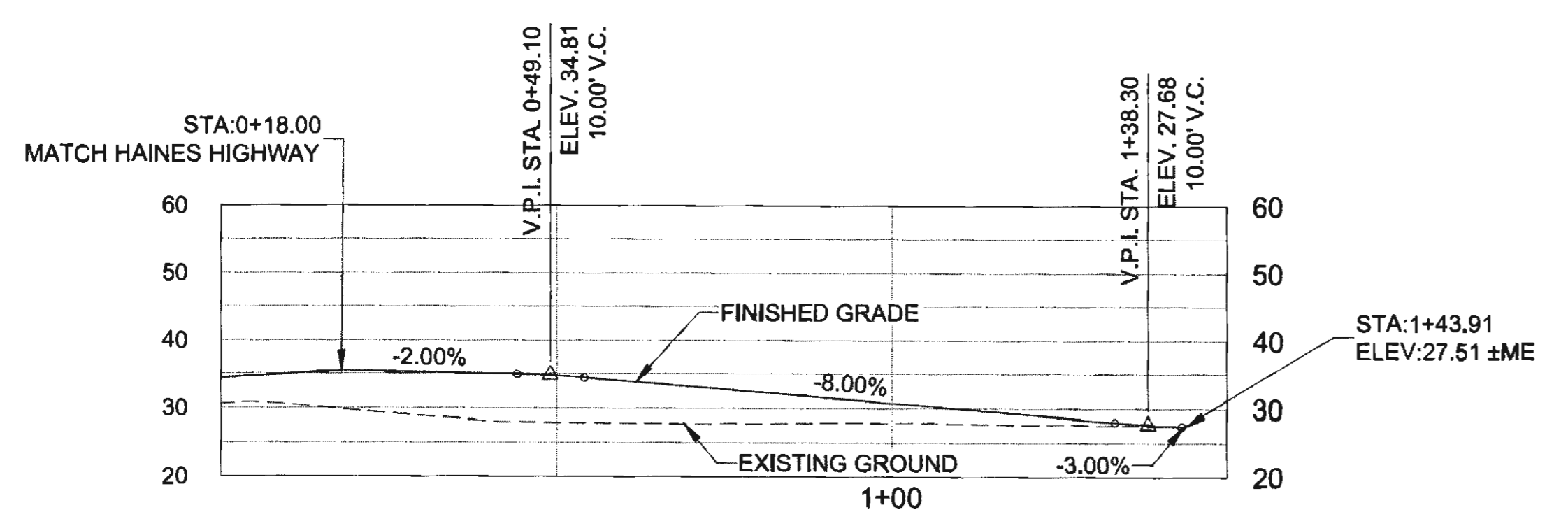
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 ADDRESS: 5366 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. TYLER  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G1	162

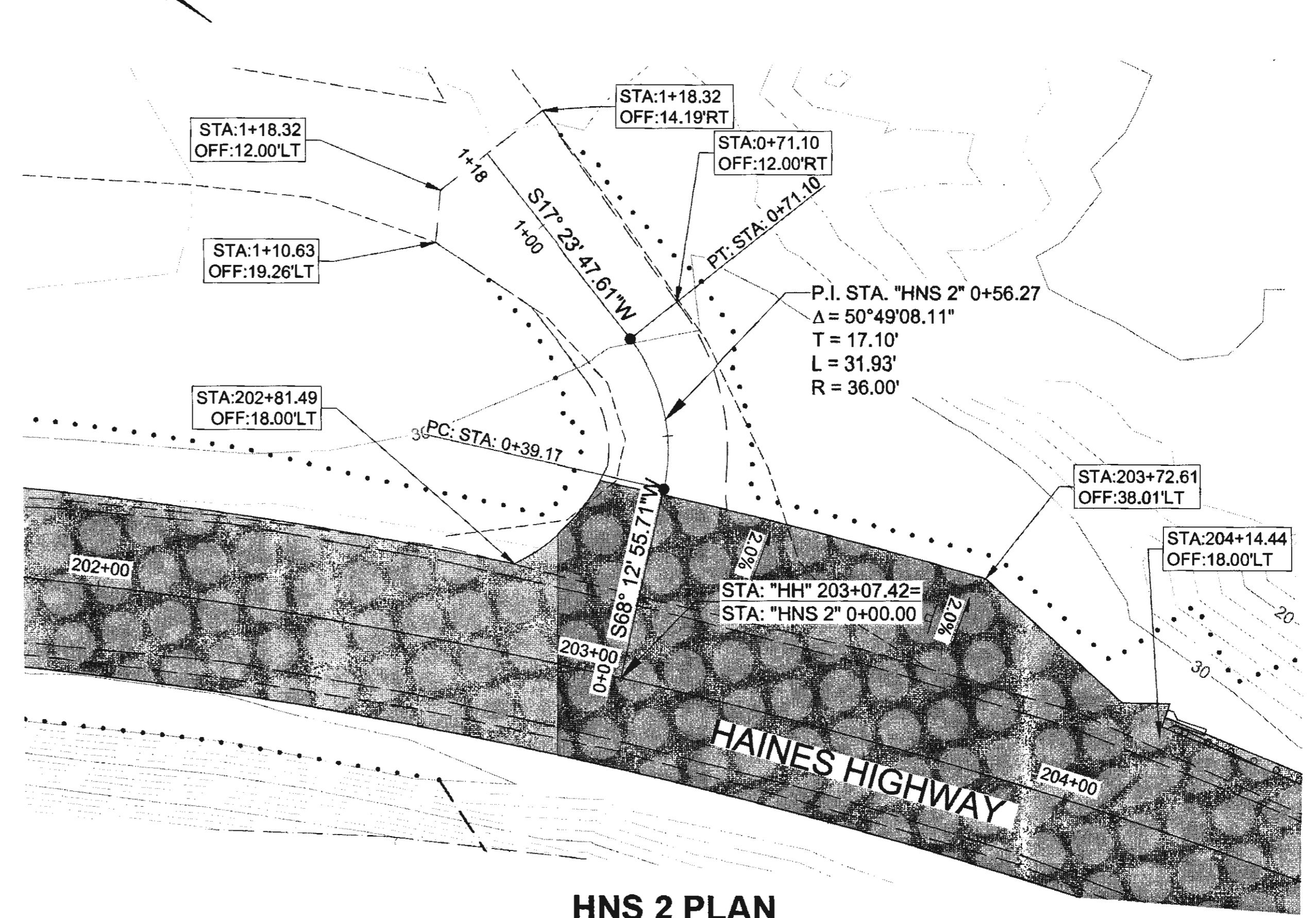
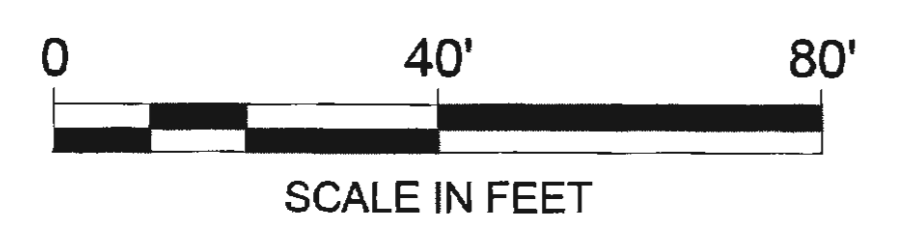


**HNS 1 PLAN**

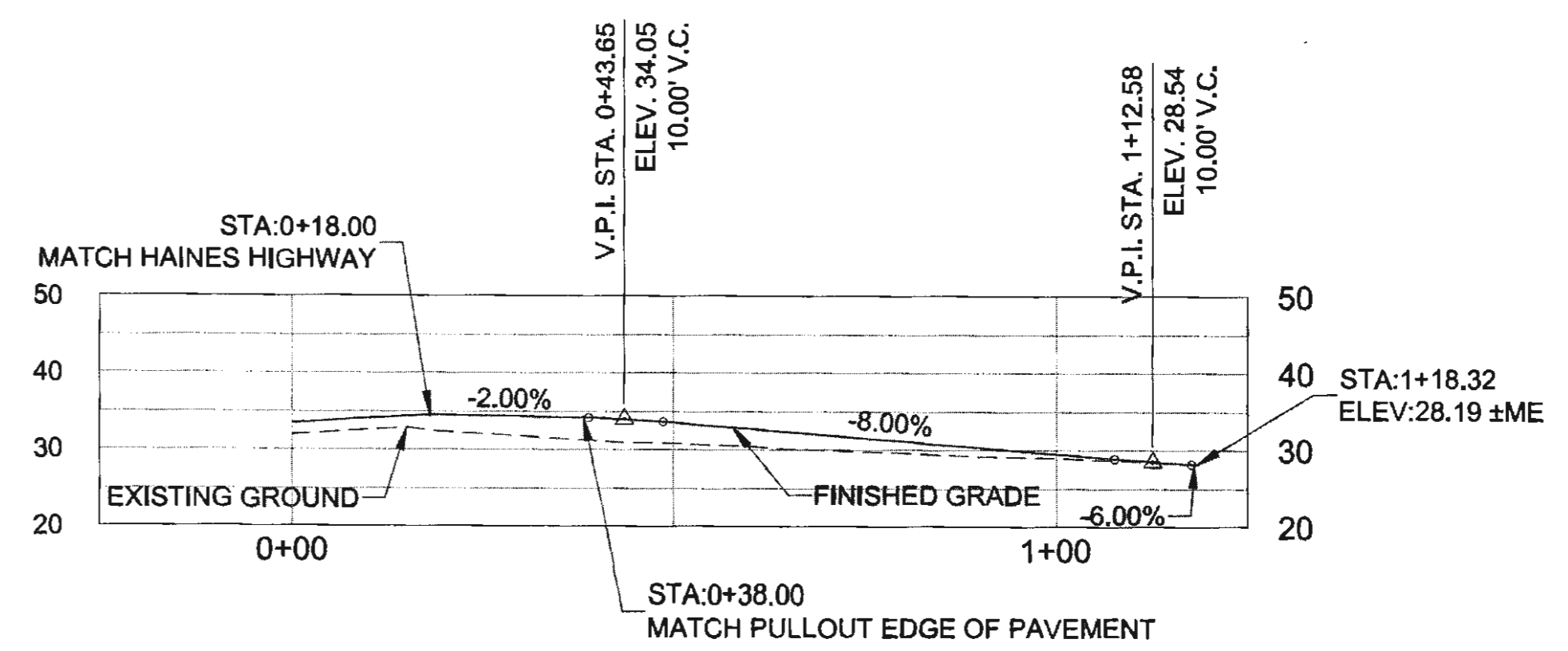
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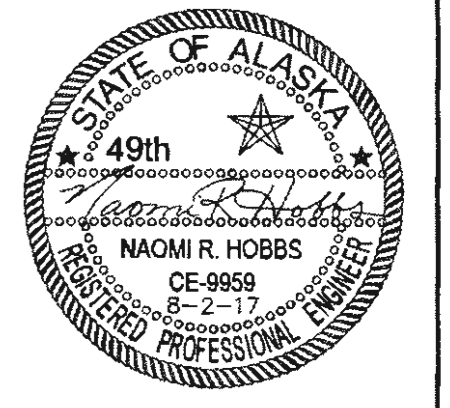
**HNS 1 PROFILE**



**HNS 2 PLAN**

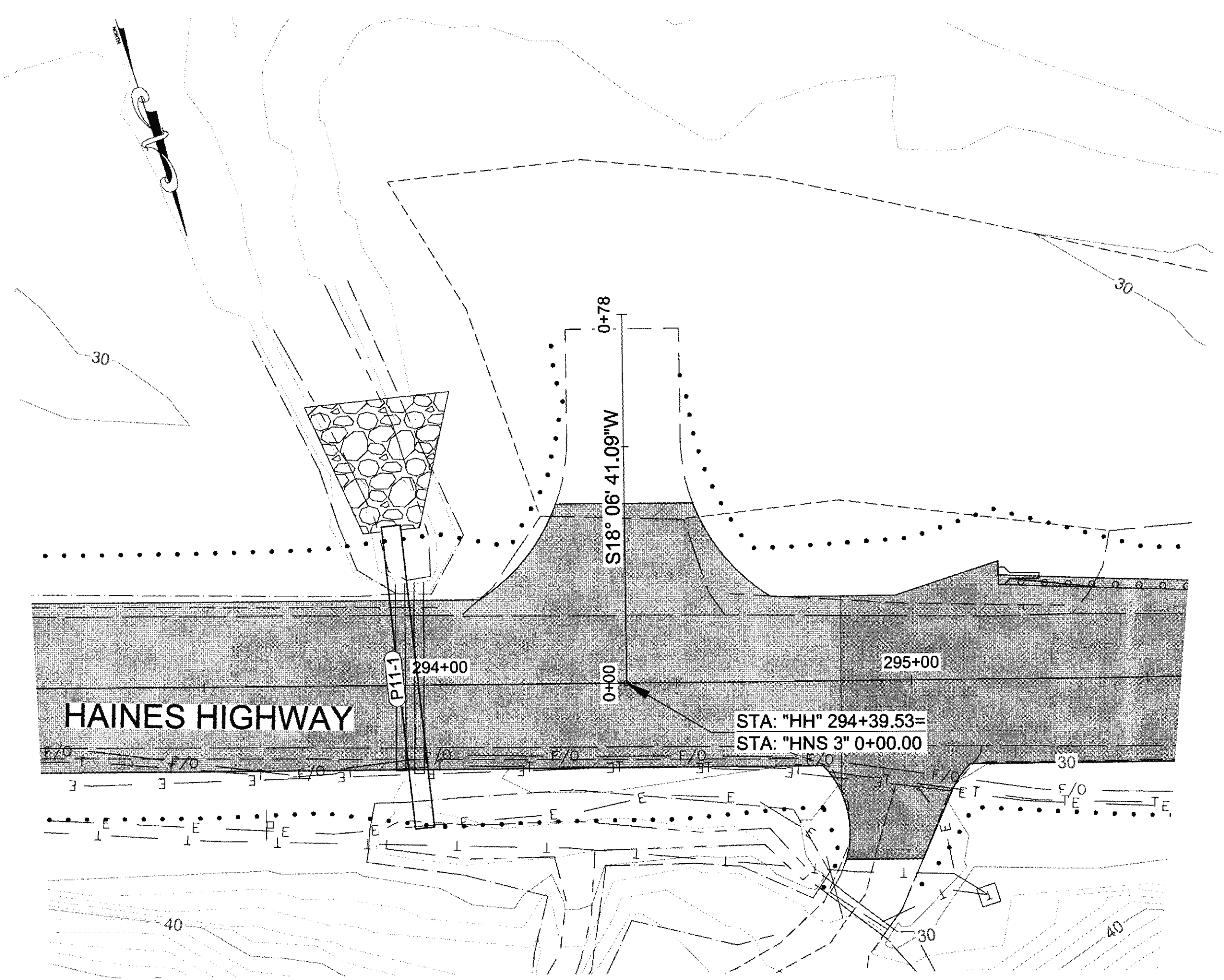


**HNS 2 PROFILE**

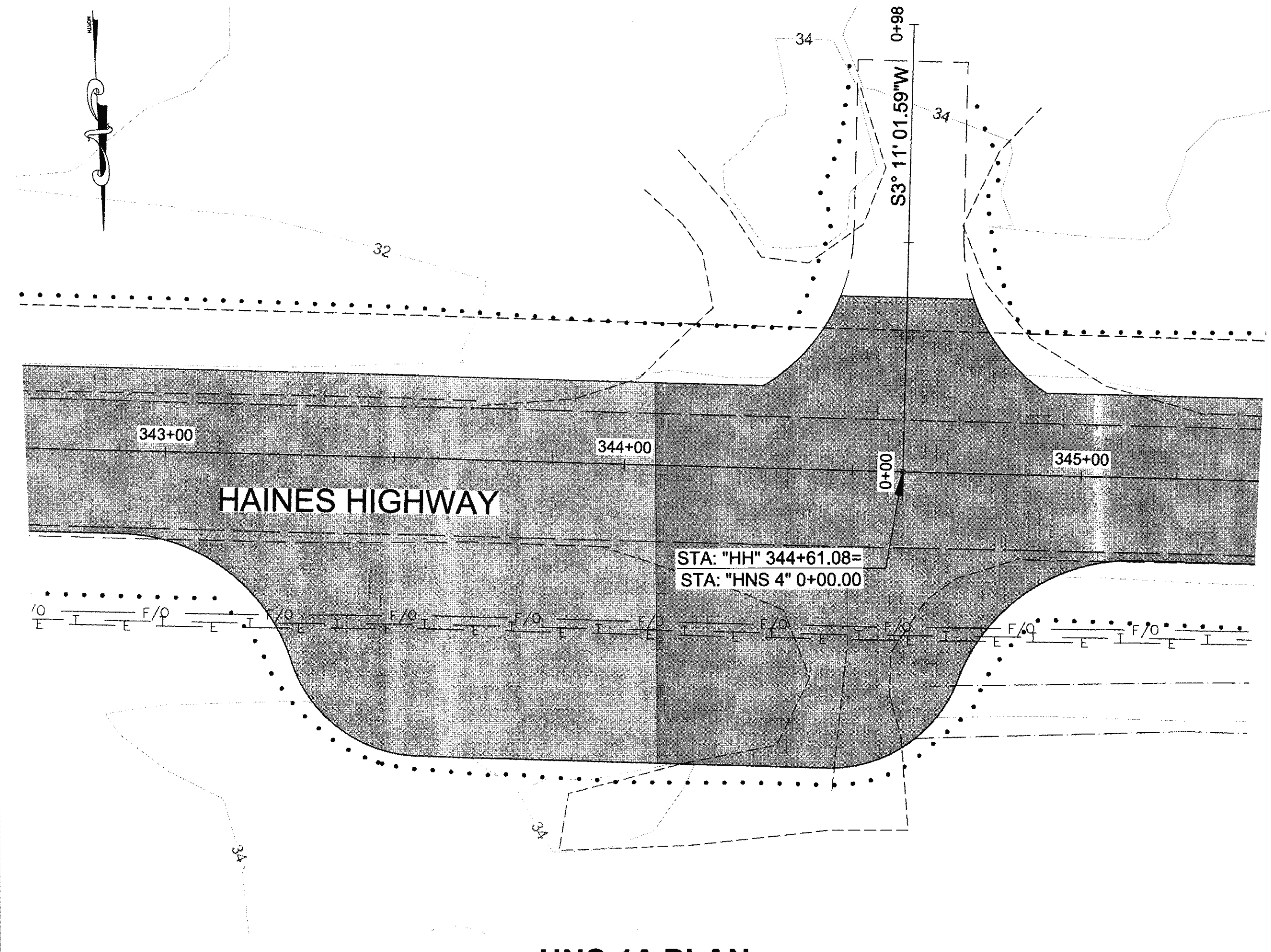


FIRM DOWL  
 FILE 0:\24\61850-01\85CAD\WP 3-12 PSE\G SHEETS\G1-G3.dwg  
 ADDRESS 5368 COMMERCIAL BLVD. JUNEAU, AK 99801  
 DATE 6/16/2017 13:26 LAYOUT 02  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # AEC1848

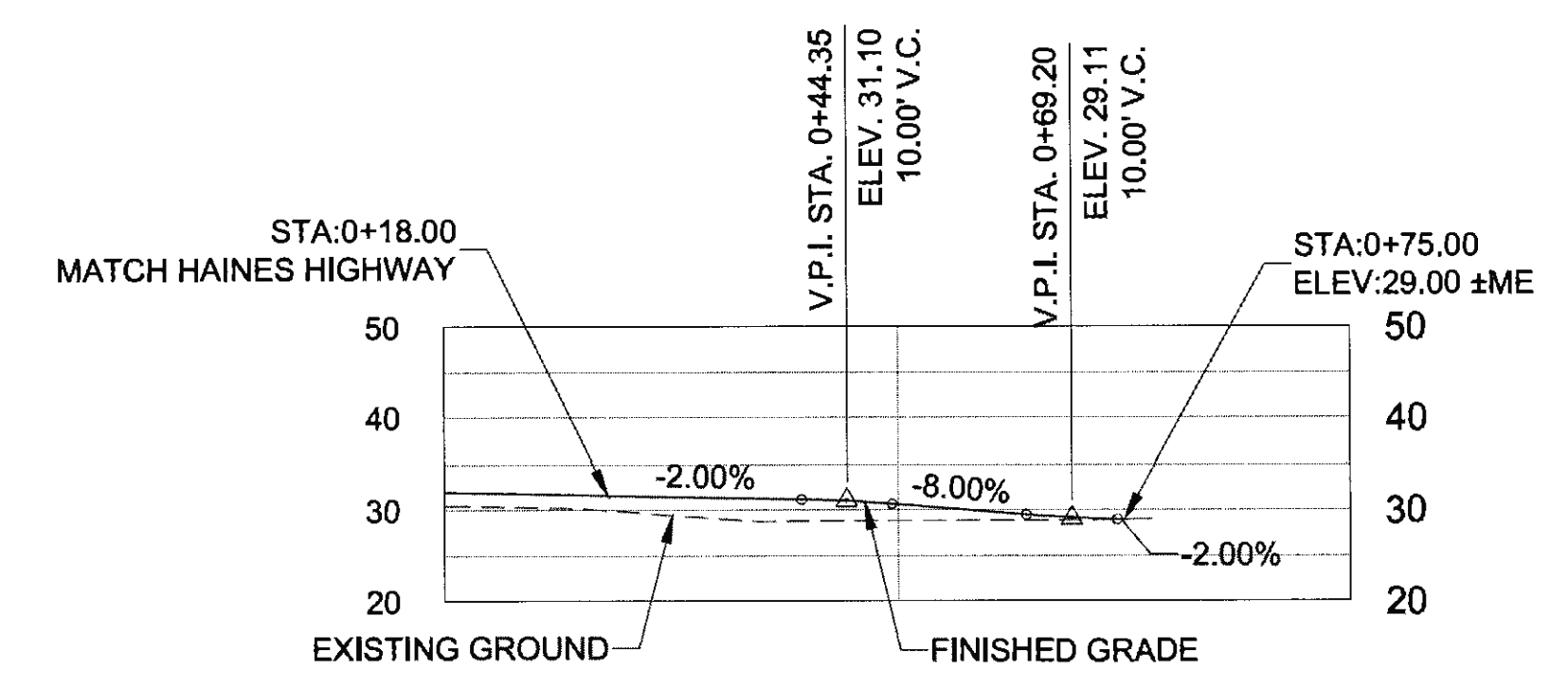
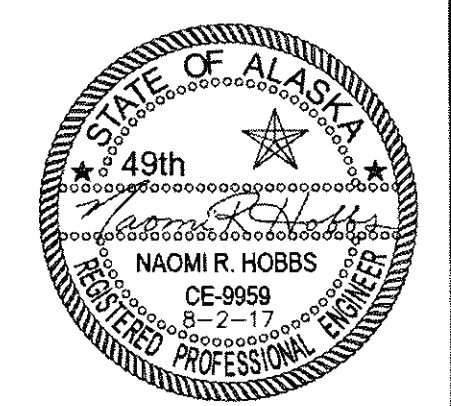
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G2	162



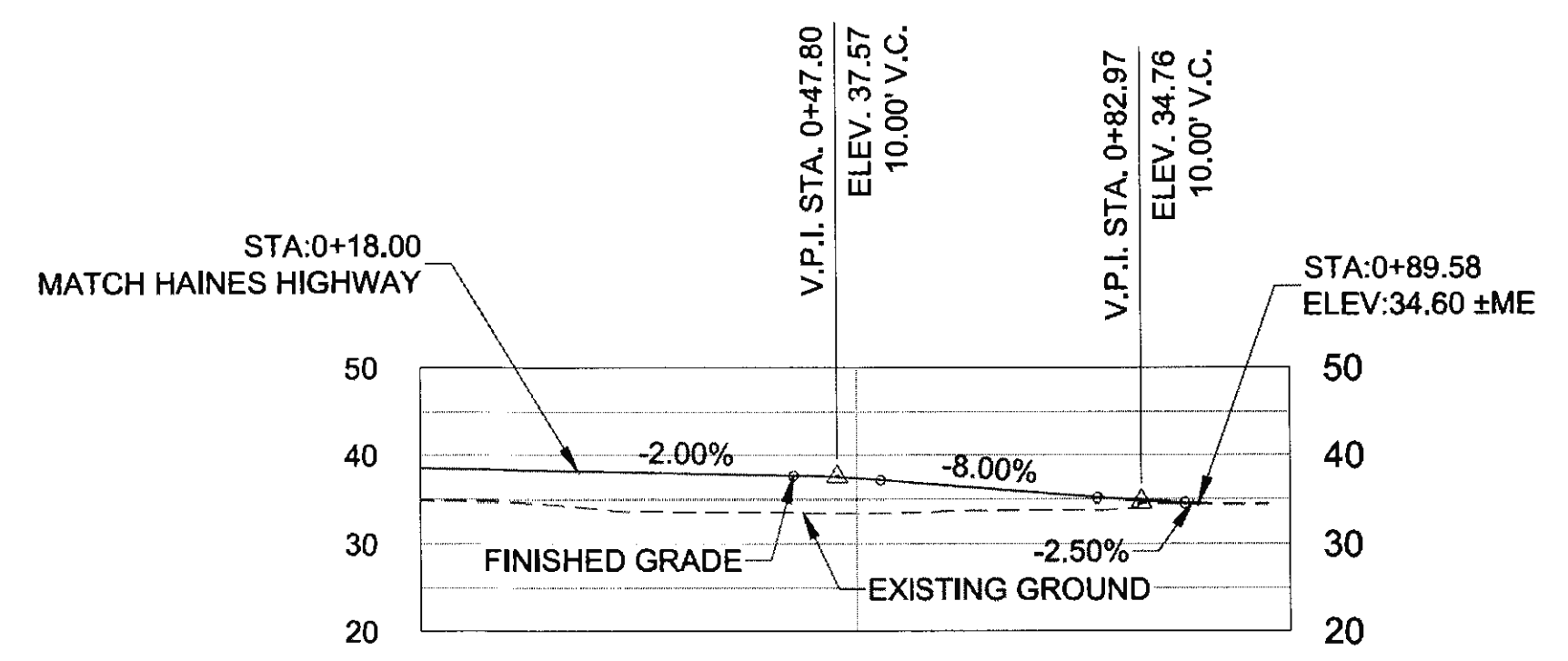
**HNS 3 PLAN**



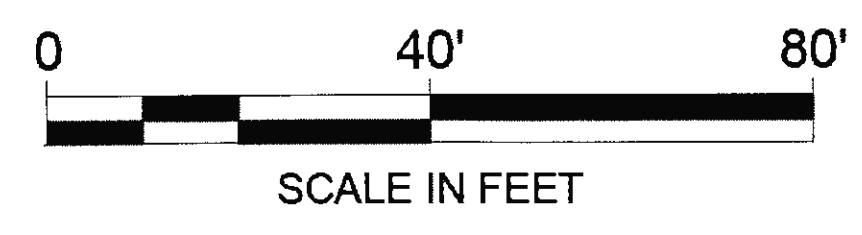
**HNS 4A PLAN**



**HNS 3 PROFILE**

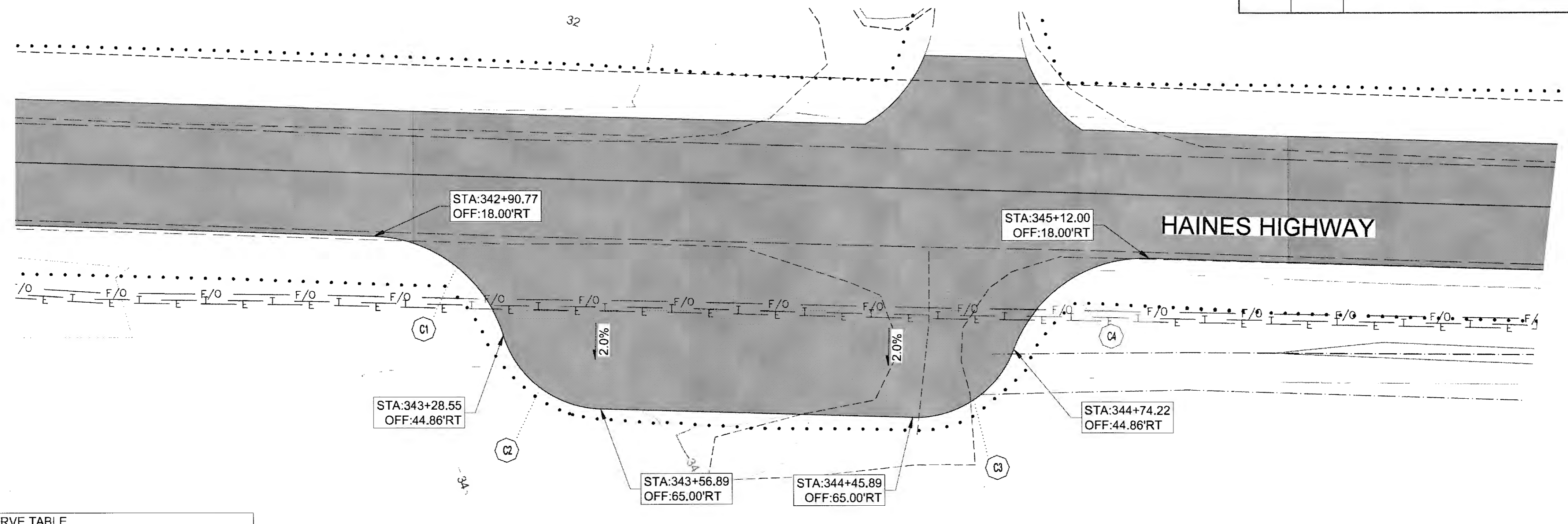


**HNS 4A PROFILE**



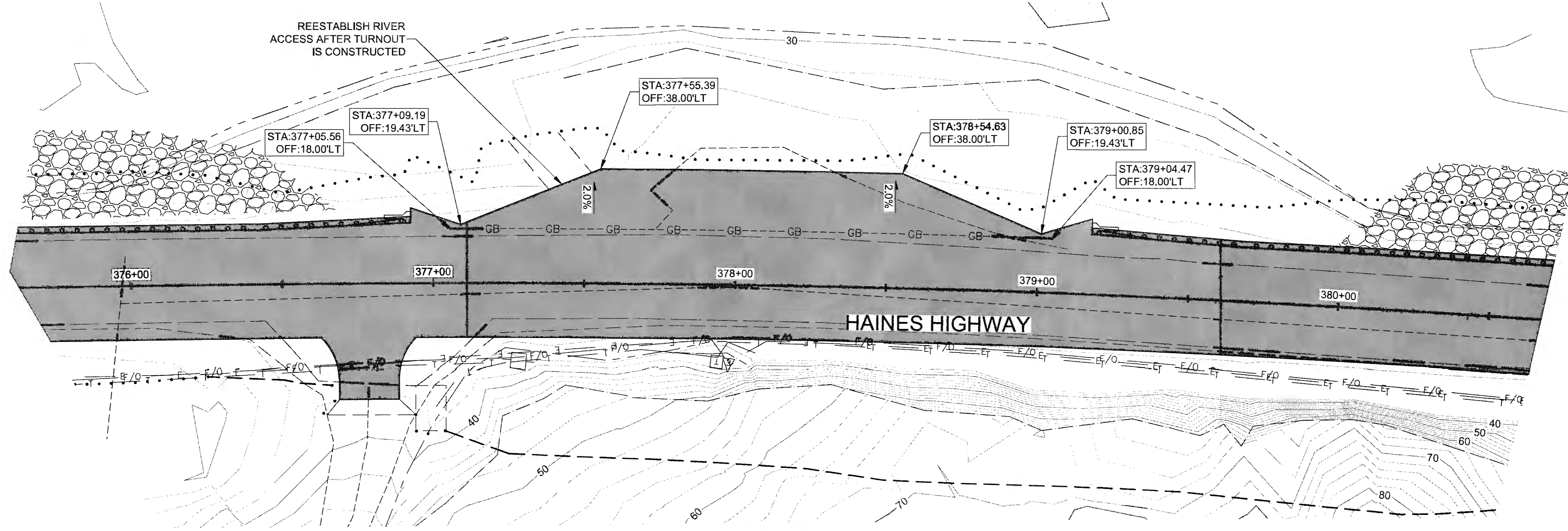
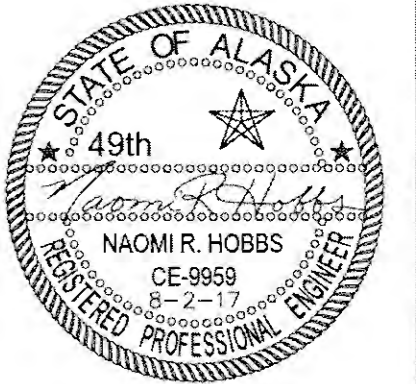
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G3	162

CERTIFICATE OF AUTH # : ACCL848  
 DRAFTED S. TYLER  
 CHECKED S. NOBLE  
 DESIGNED N. HOBBS  
 PHONE (907) 780-3533  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 16/16/2017 13:26 LAYOUT G3  
 FIRM DOWL  
 FILE 0:\24\161850-01\85CAD\MP\_3-12\_P&G\_SHEETS\G1-G3.dwg

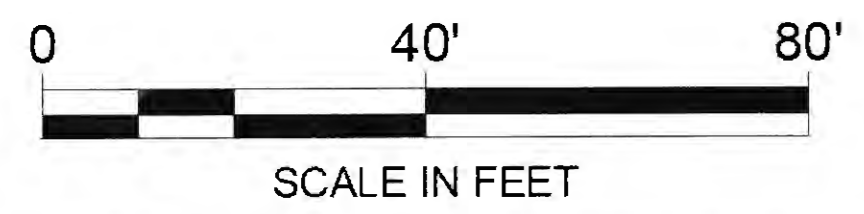


POINT	DESCR.	ALGN.	STATION	OFFSET	RADIUS	LENGTH
C1	EOP	HH	342+90.77	58.0' RT	40'	49.44'
C2	EOP	HH	343+56.89	35.0' RT	30'	37.08'
C3	EOP	HH	344+45.89	35.0' RT	30'	37.08'
C4	EOP	HH	345+12.00	58.0' RT	40'	49.44'

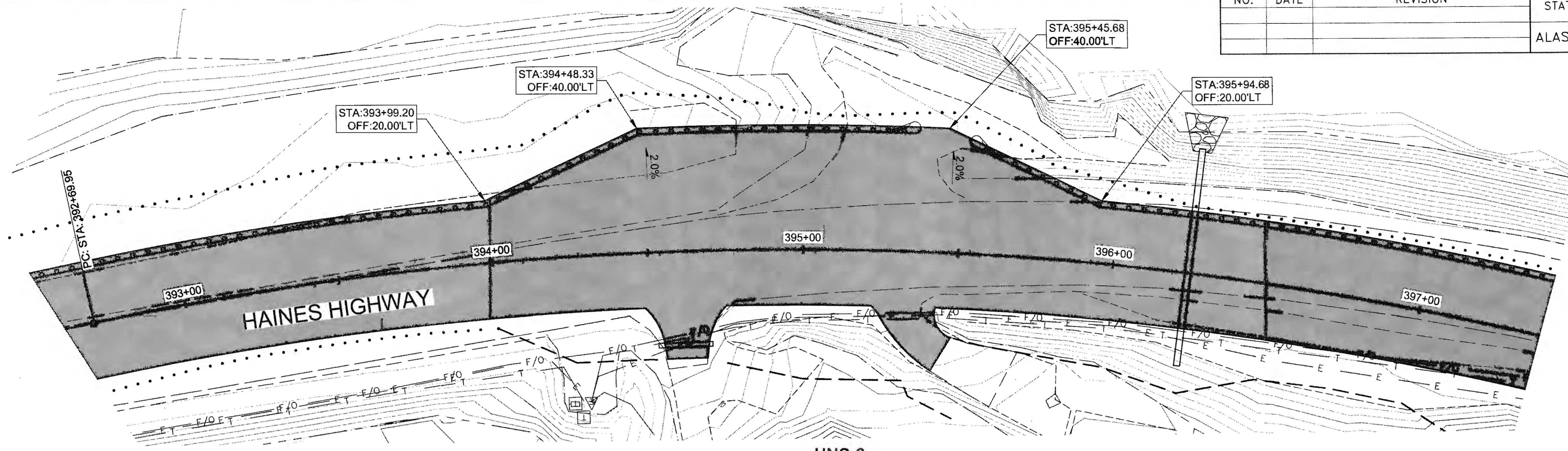
**HNS 4**



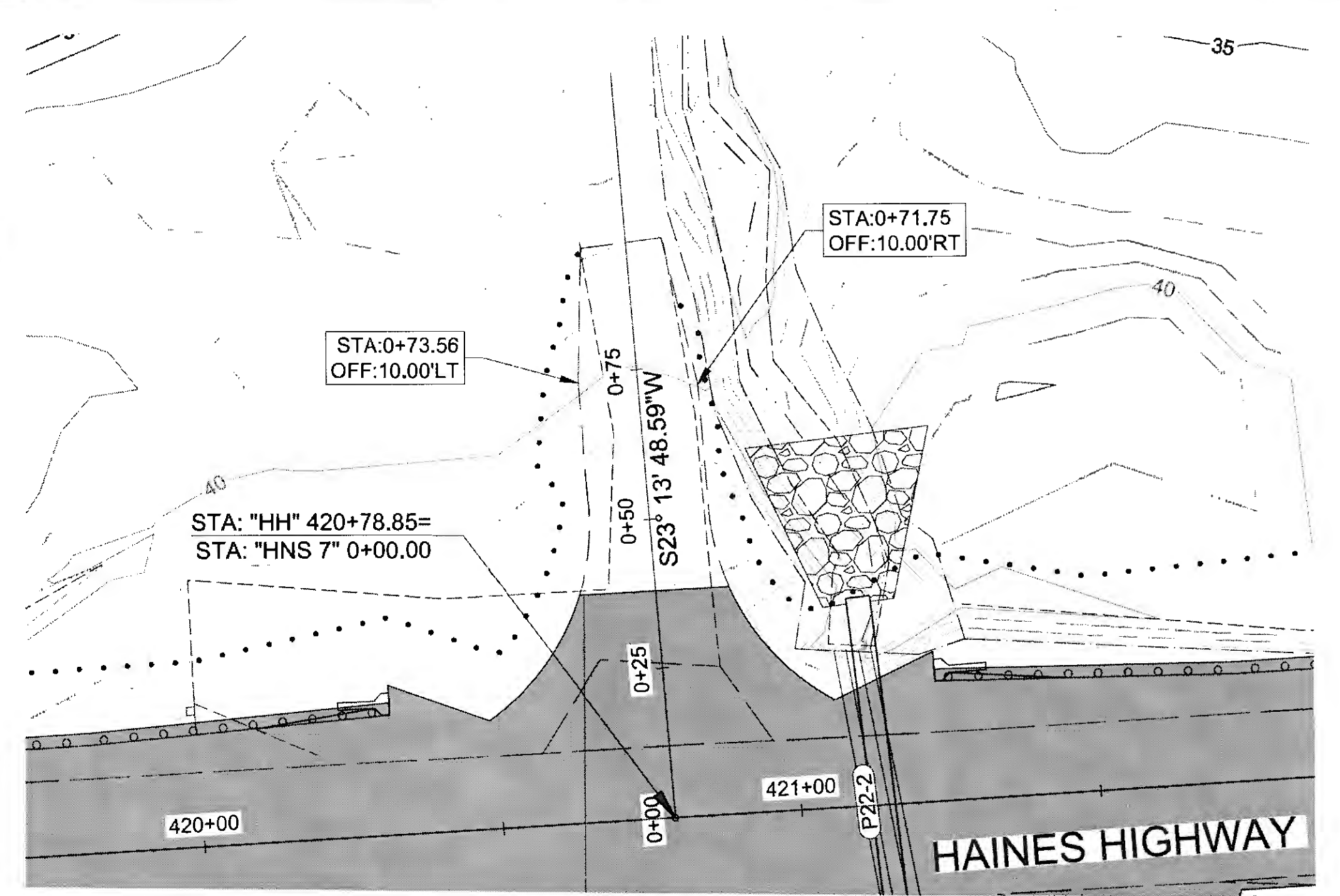
**HNS 5**



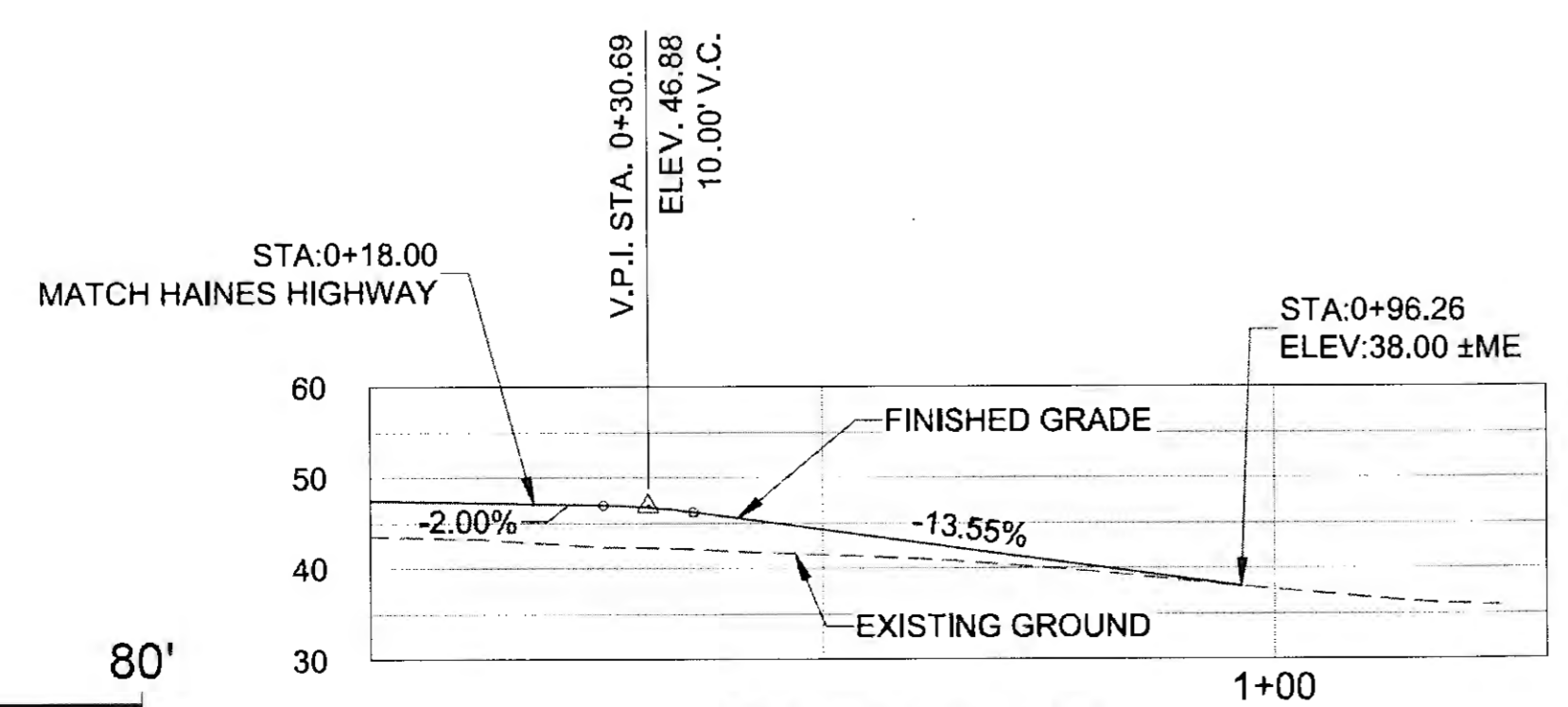
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G4	162



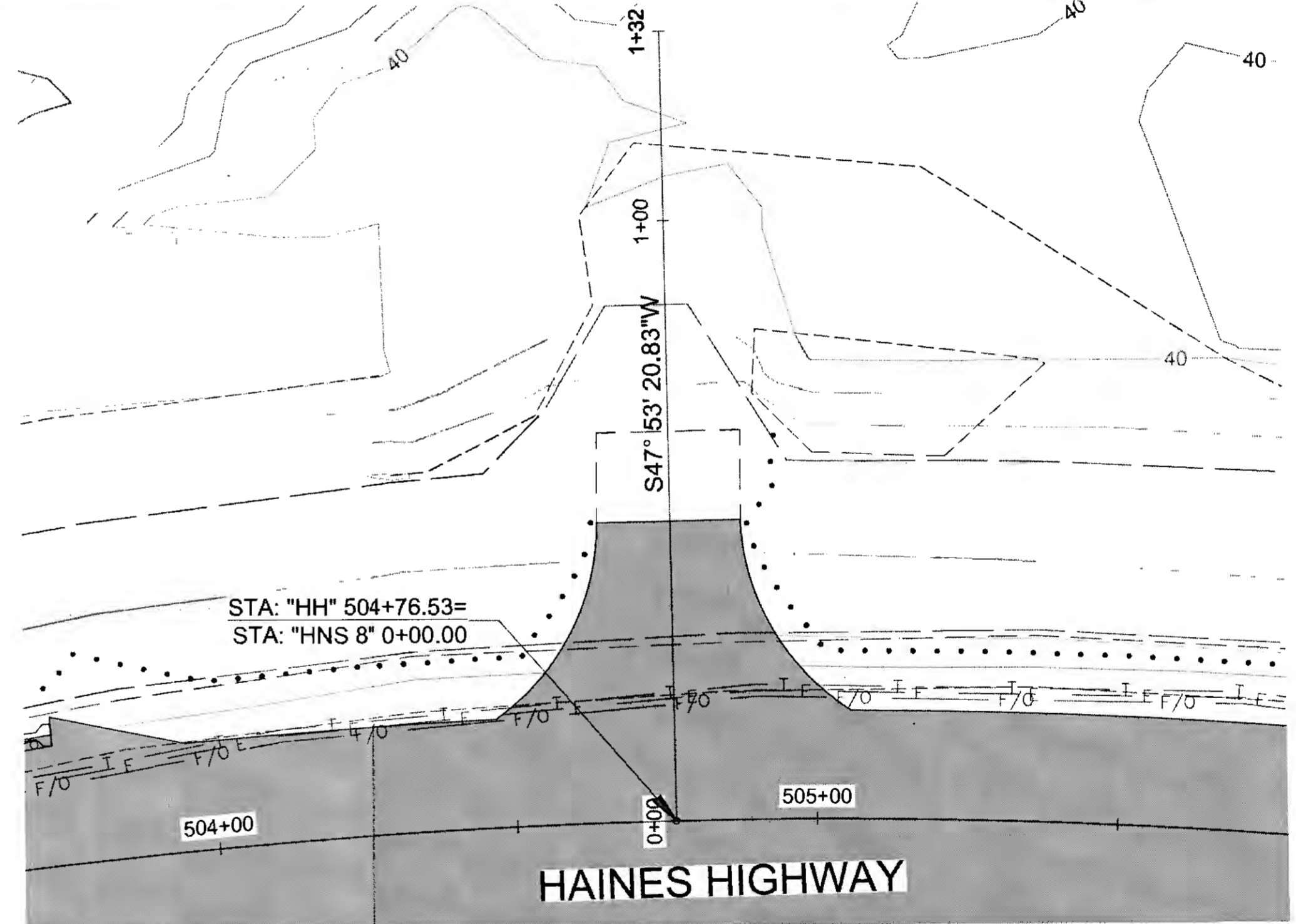
HNS 6



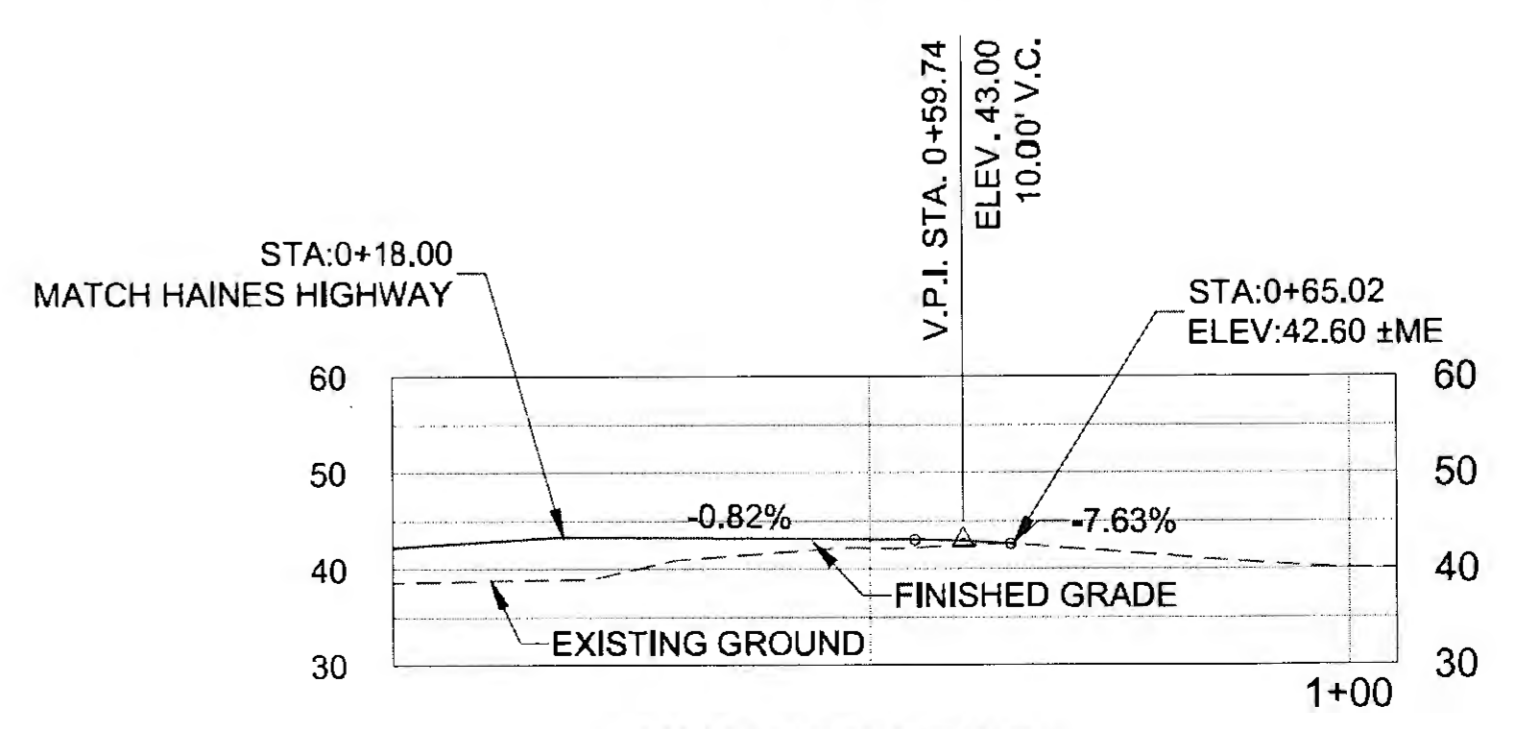
HNS 7 PLAN



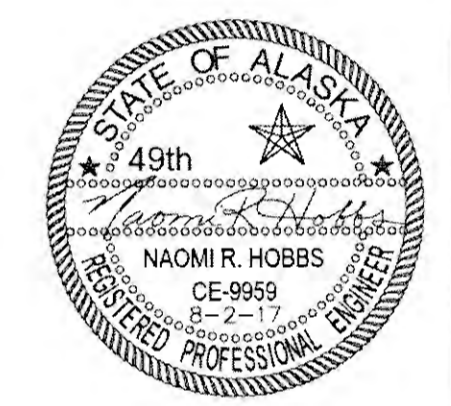
HNS 7 PROFILE



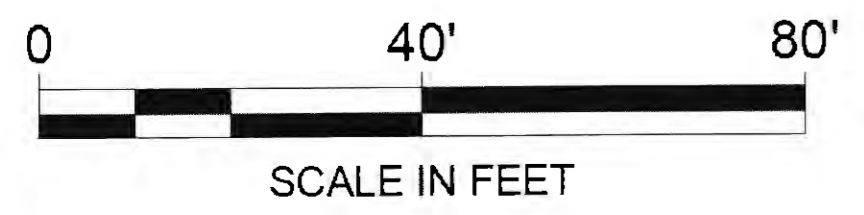
HNS 8 PLAN



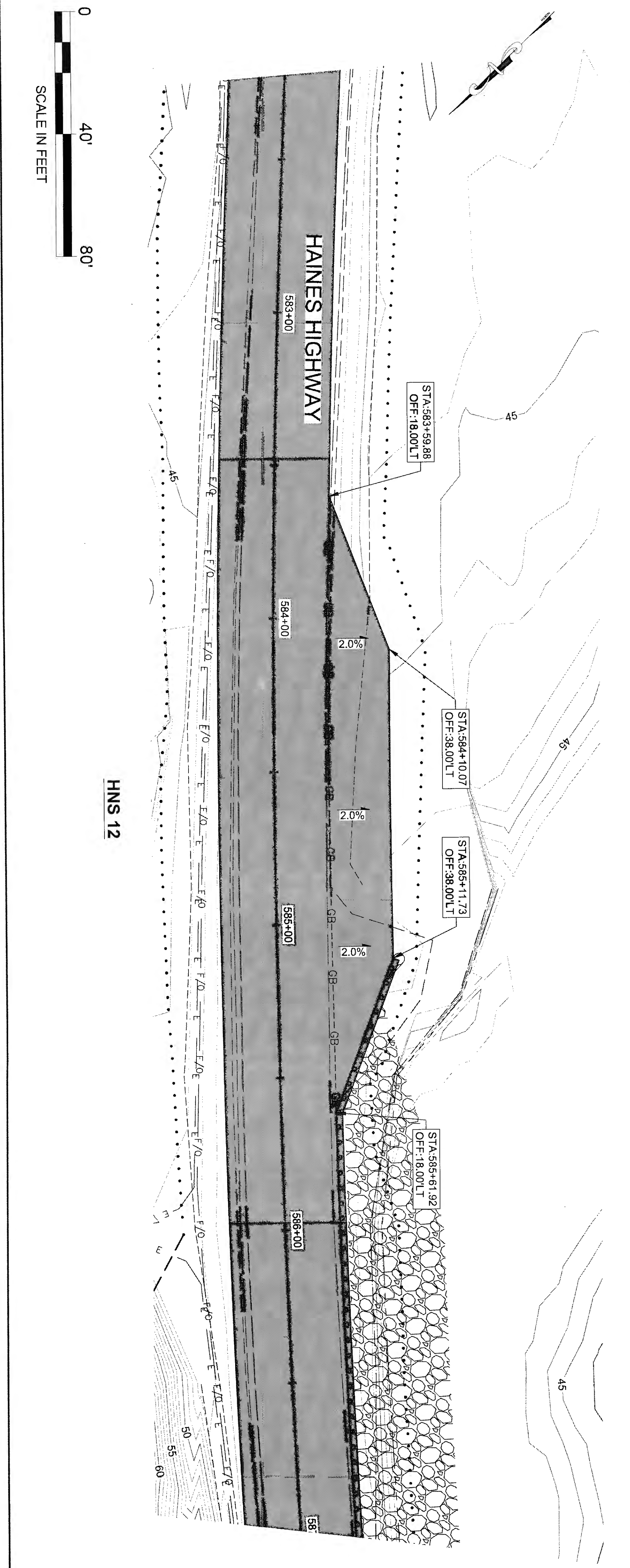
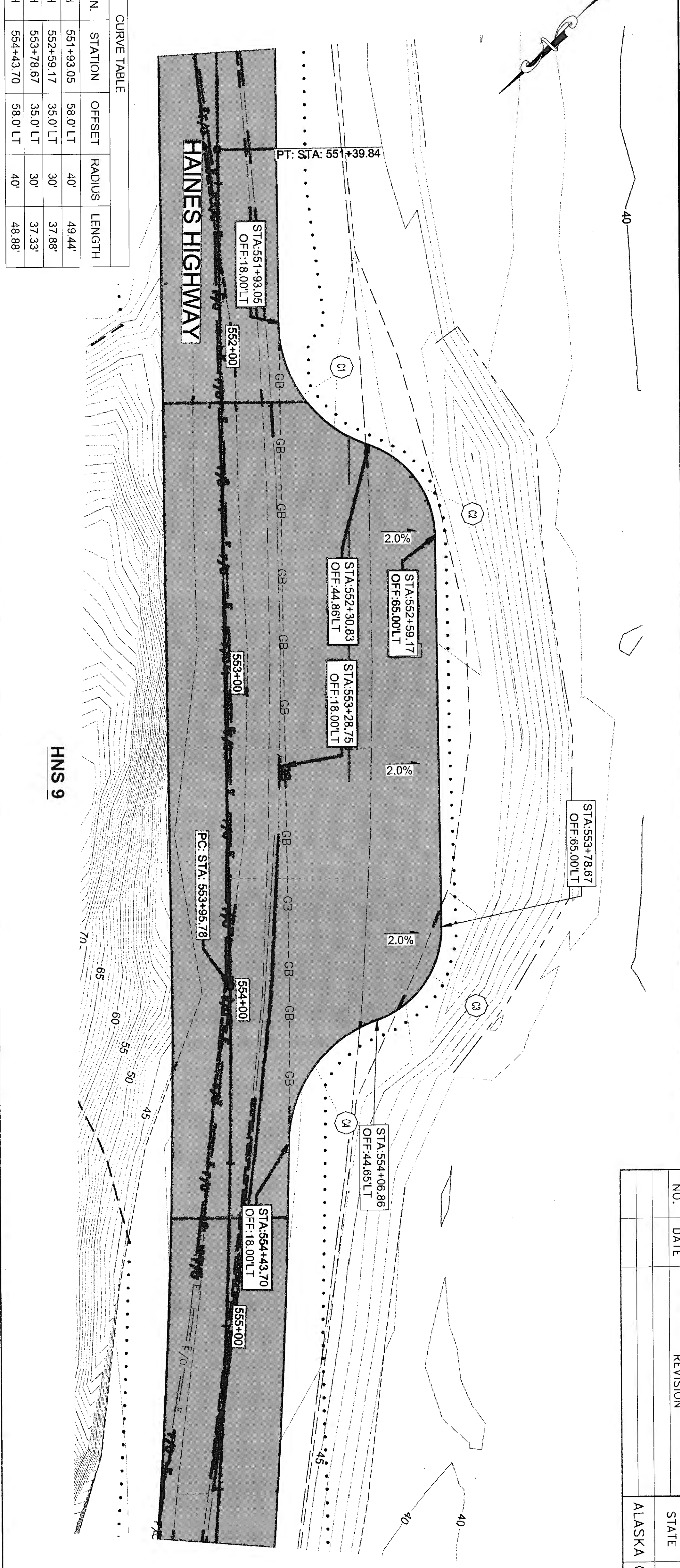
HNS 8 PROFILE



FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/16/2017 14:06  
 LAYOUT: G4  
 FILE: O:\24161850-01\65CAD\WP\_3-12\_PSE\G SHEETS\G4-G5.dwg



POINT	DESCR.	ALGN	STATION	OFFSET	RADIUS	LENGTH
C1	EOP	HH	551+93.05	58.0' LT	40'	49.44'
C2	EOP	HH	552+59.17	35.0' LT	30'	37.88'
C3	EOP	HH	553+78.67	35.0' LT	30'	37.33'
C4	EOP	HH	554+43.70	58.0' LT	40'	48.88'

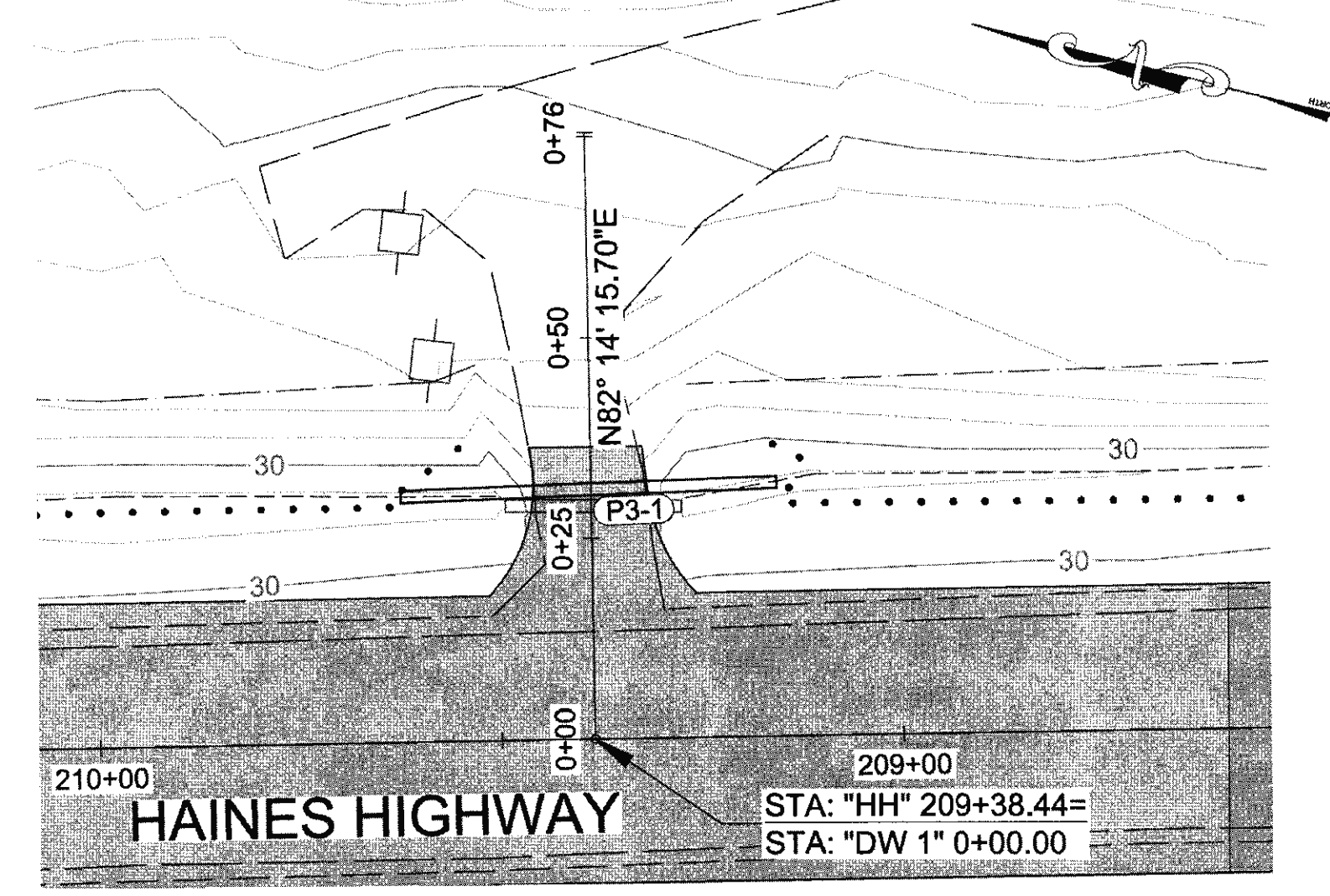


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G5	162

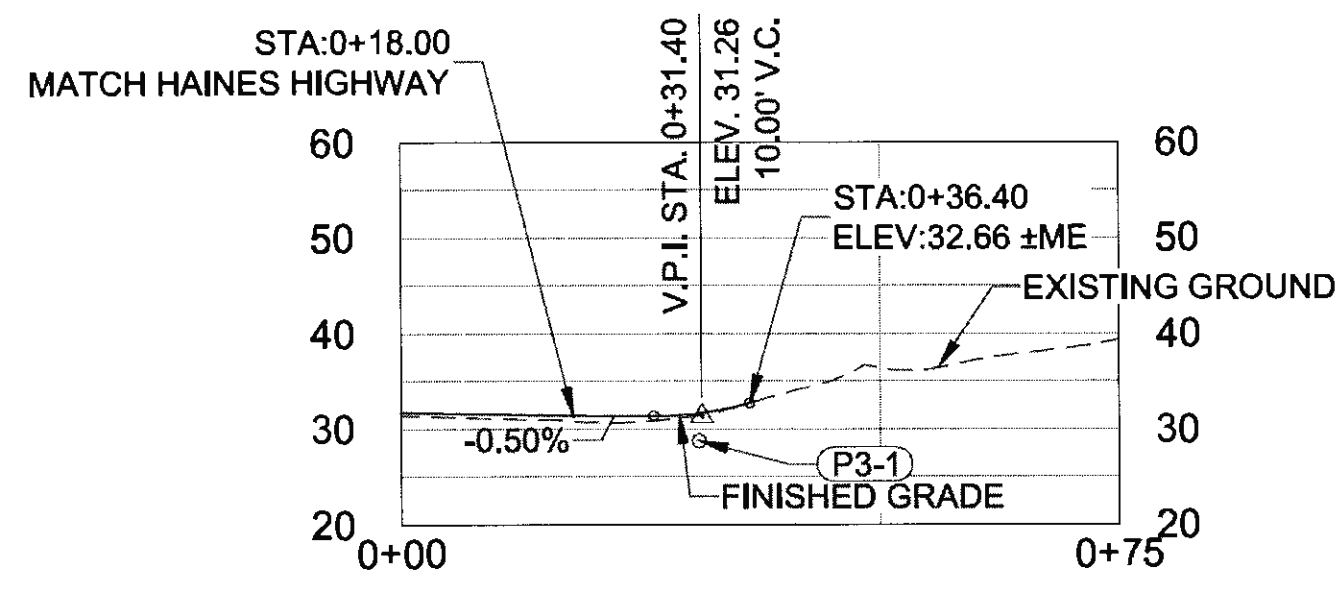
7-20 6-25-20

FIRM DWM  
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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 6/20/2017 13:36 LAYOUT 06

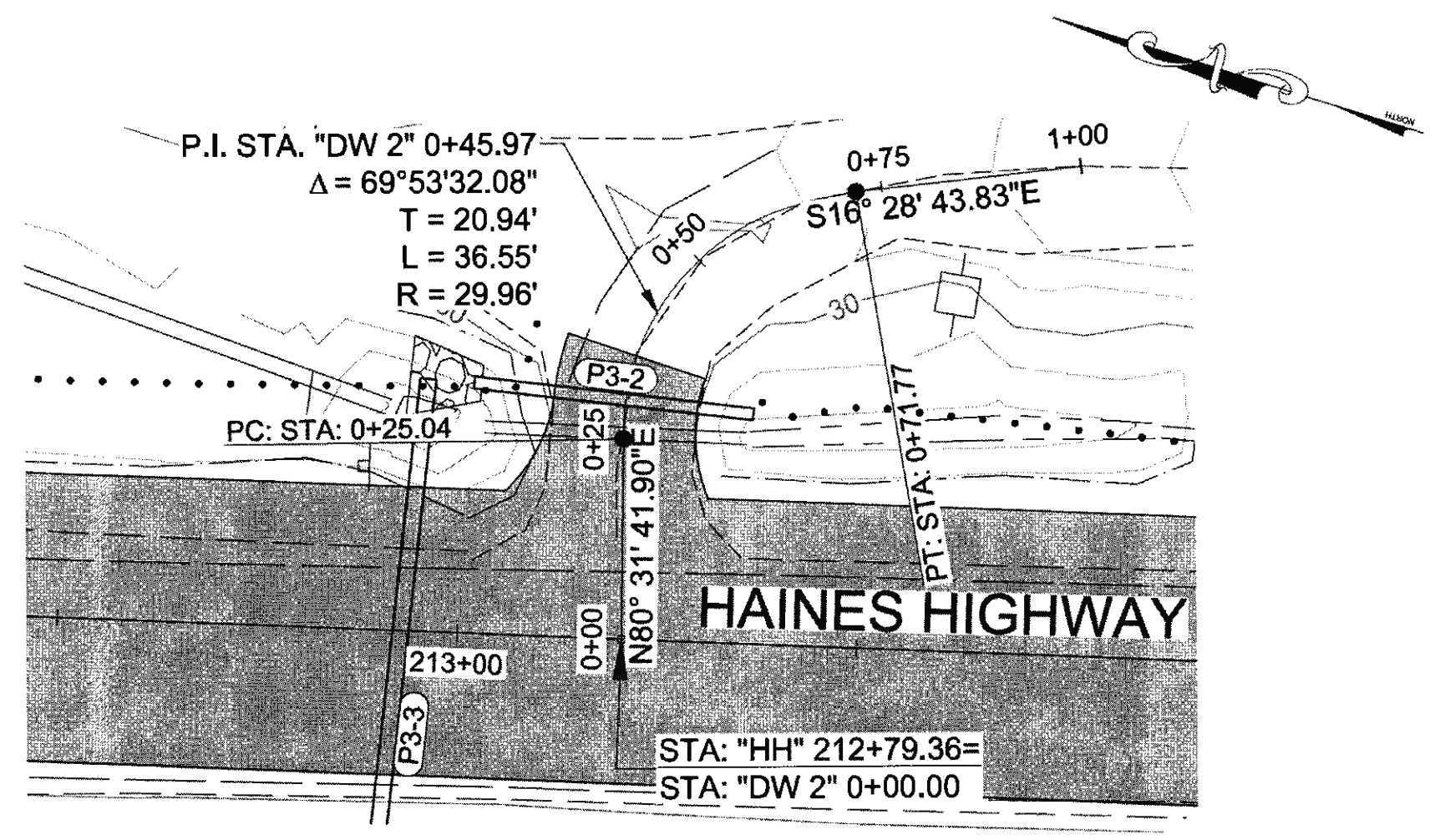
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G6	162



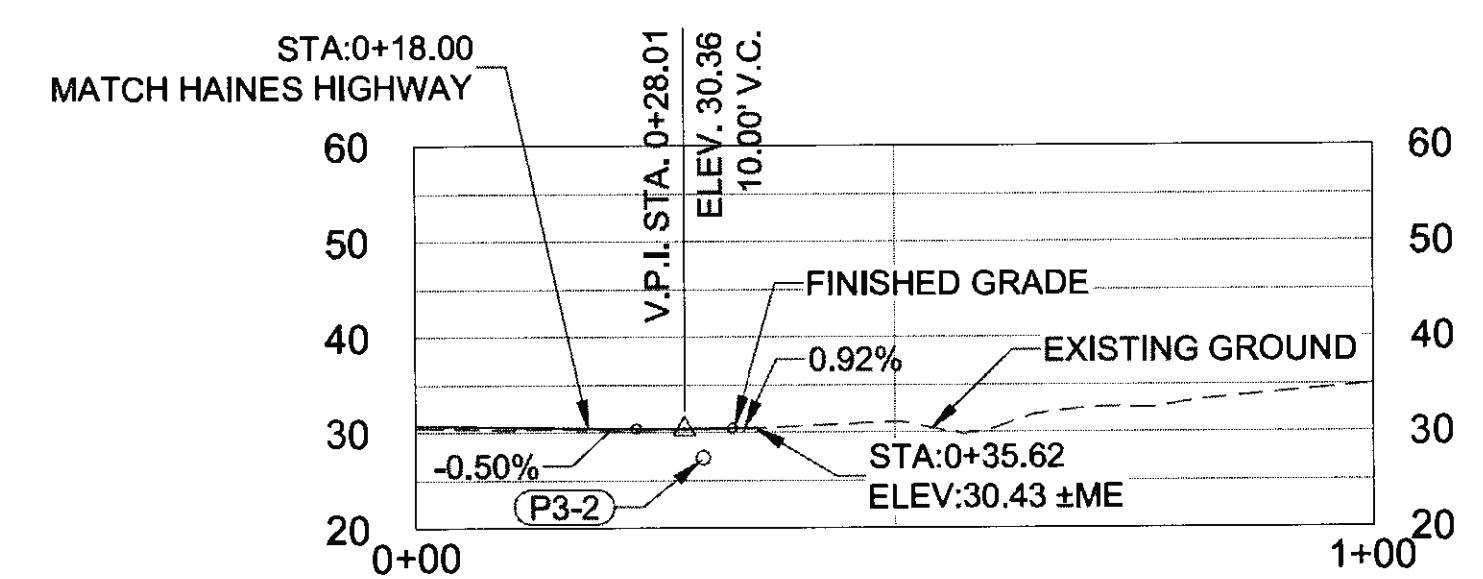
**U.S.S. 908 PLAN**



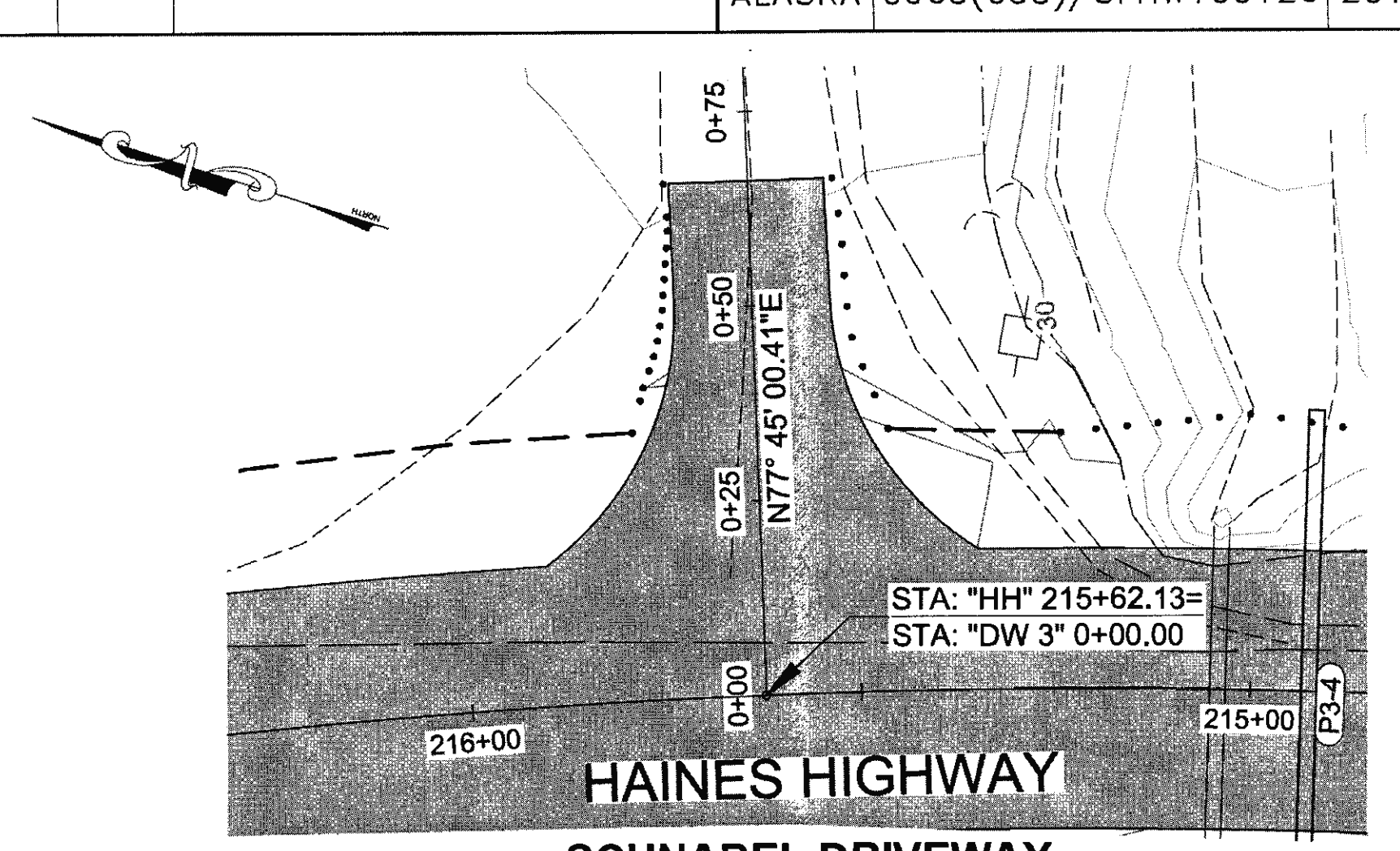
**U.S.S. 908 PROFILE**



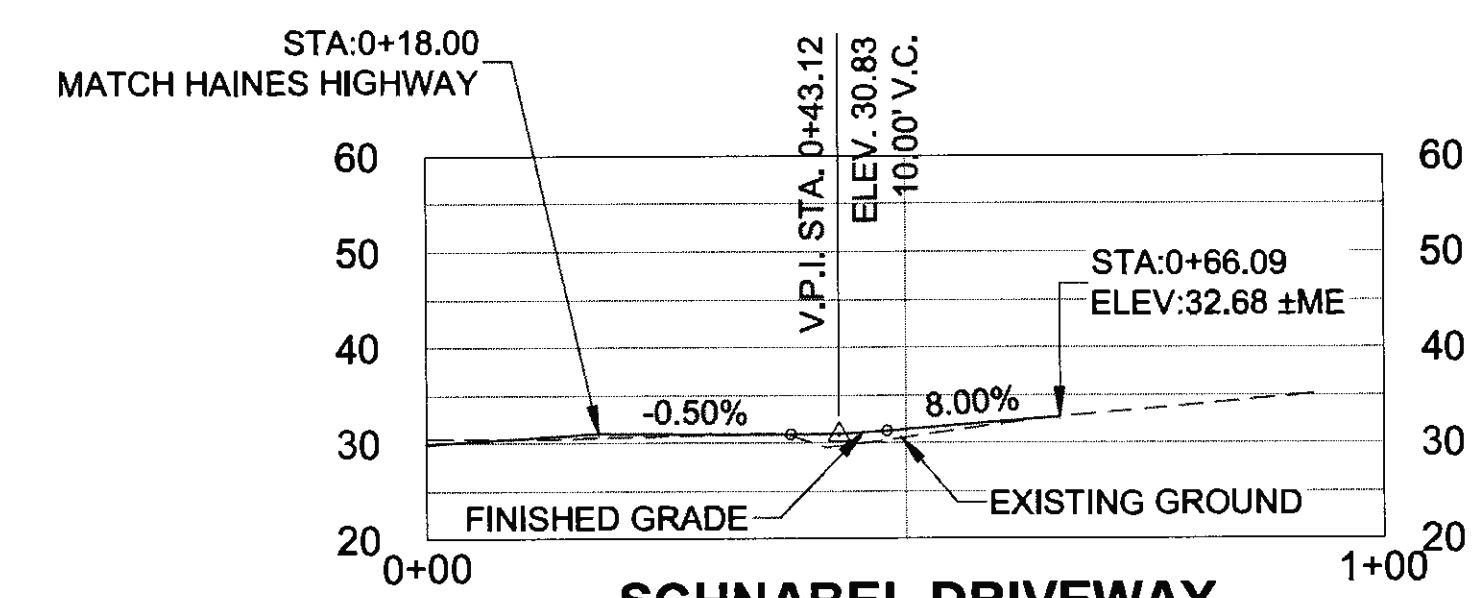
**SCHNABEL DRIVEWAY LOT 4 PLAN**



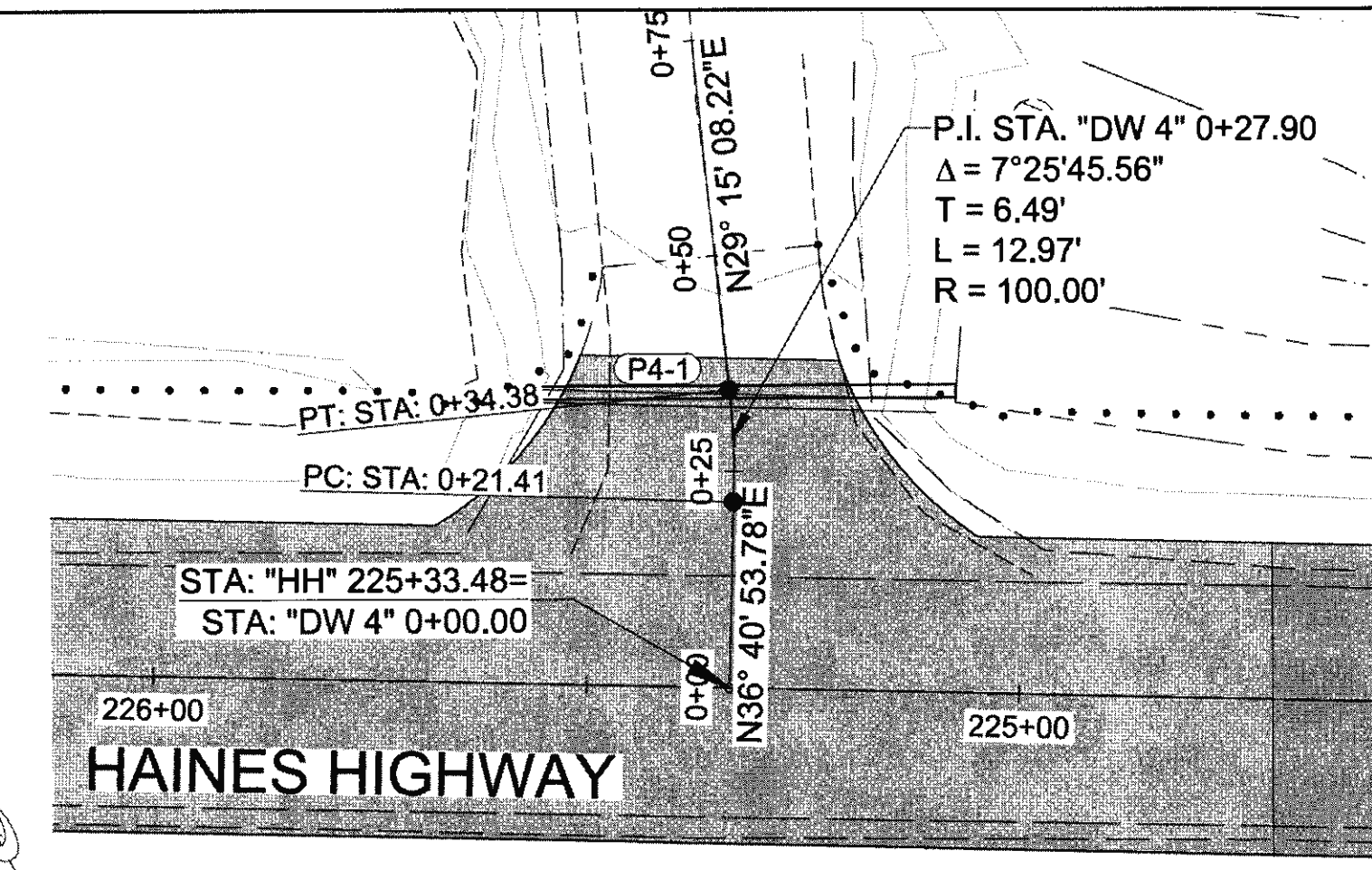
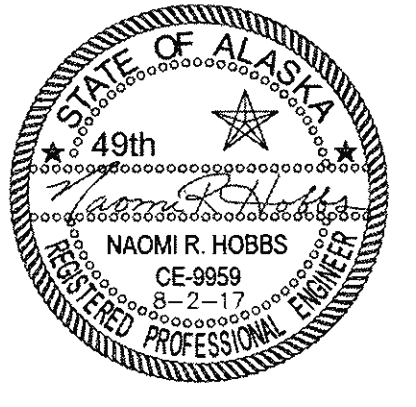
**SCHNABEL DRIVEWAY LOT 4 PROFILE**



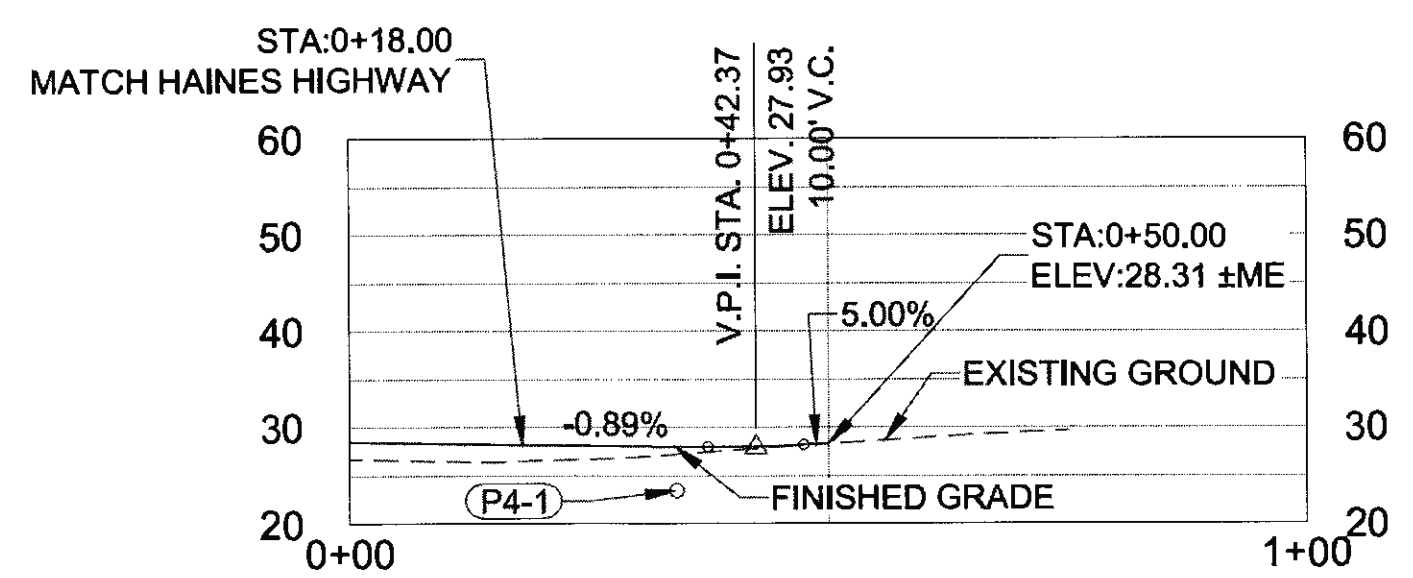
**SCHNABEL DRIVEWAY LOT 5 PLAN**



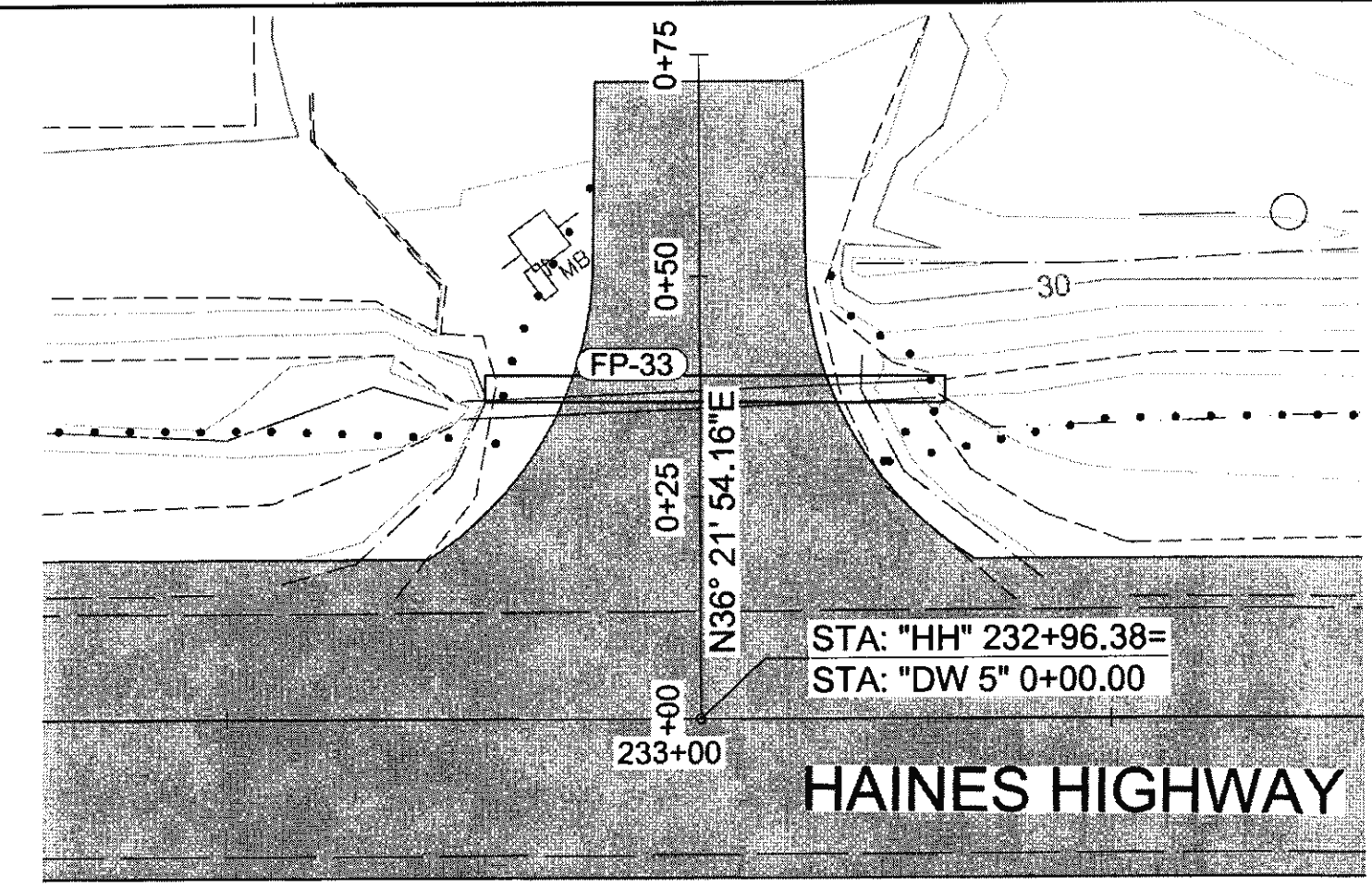
**SCHNABEL DRIVEWAY LOT 5 PROFILE**



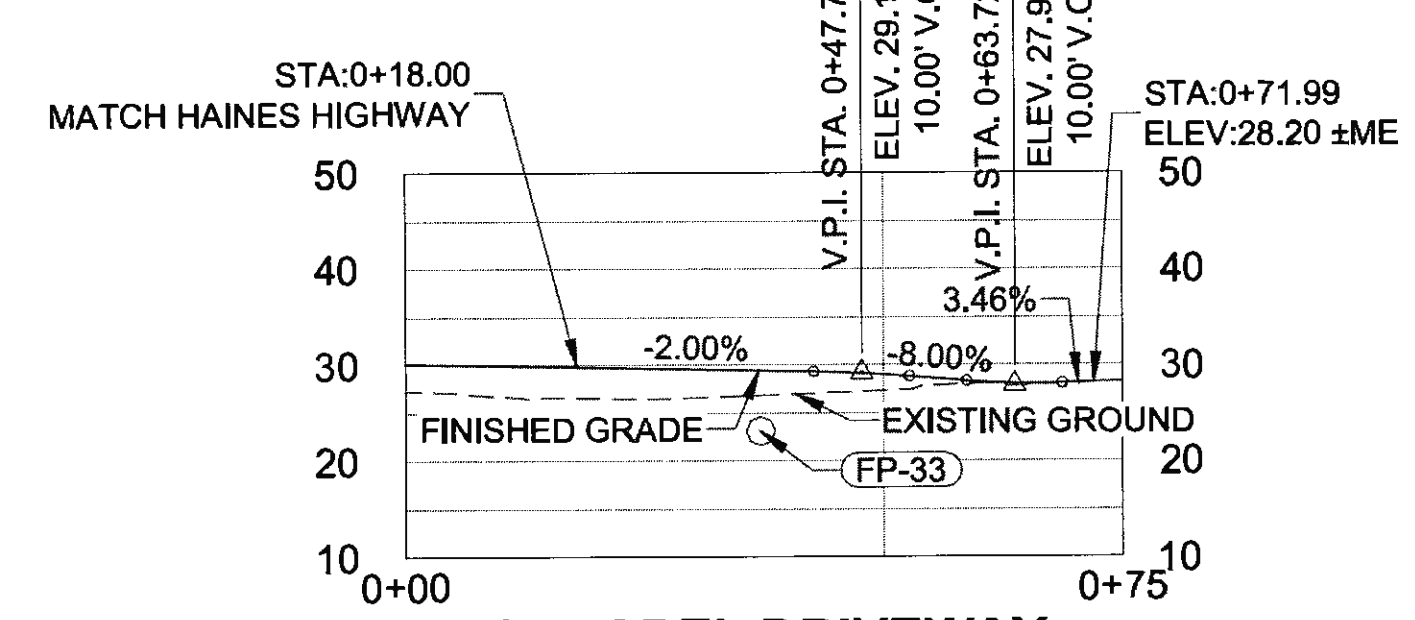
**SCHNABEL DRIVEWAY LOT 2 PLAN**



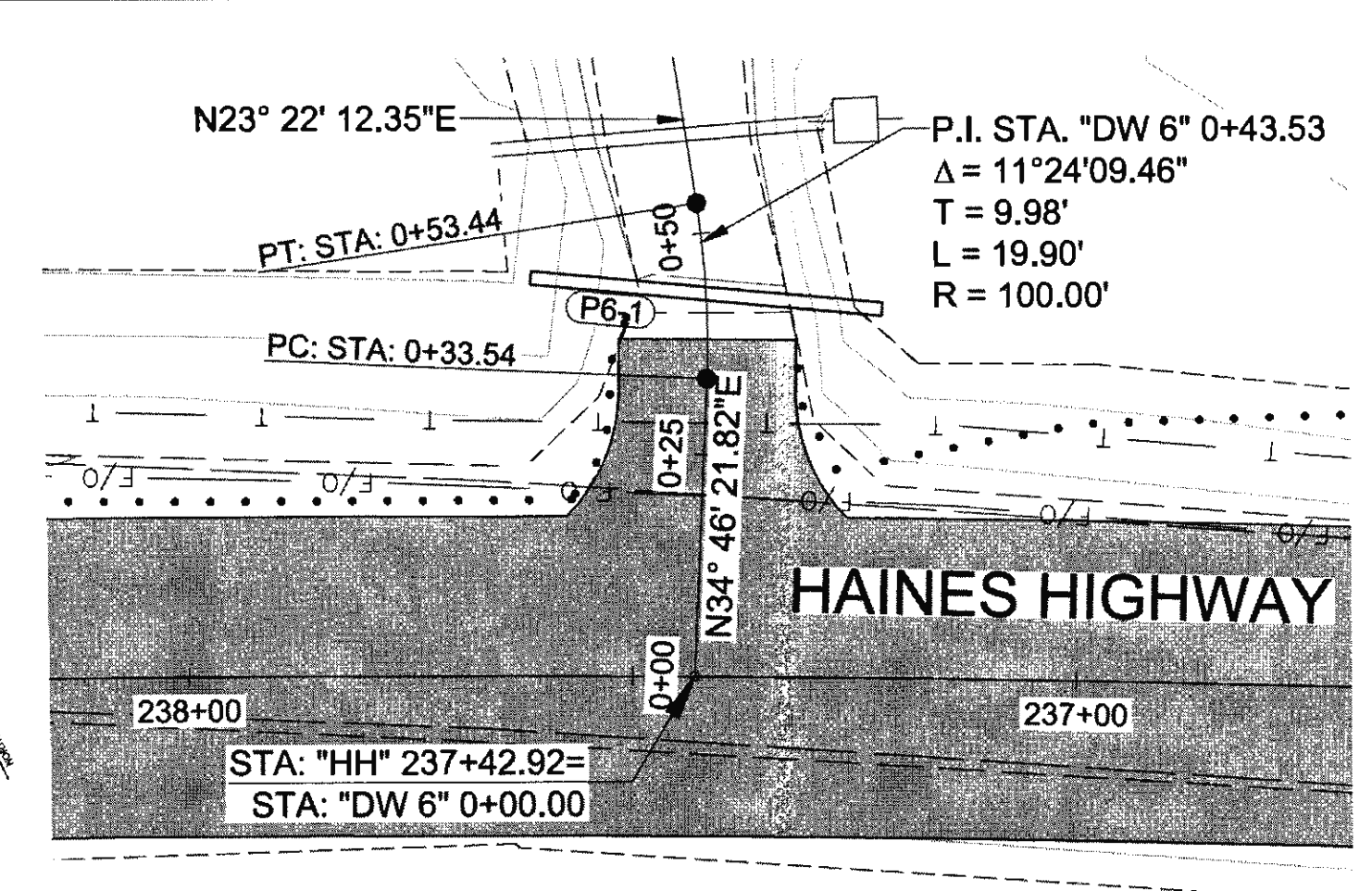
**SCHNABEL DRIVEWAY LOT 2 PROFILE**



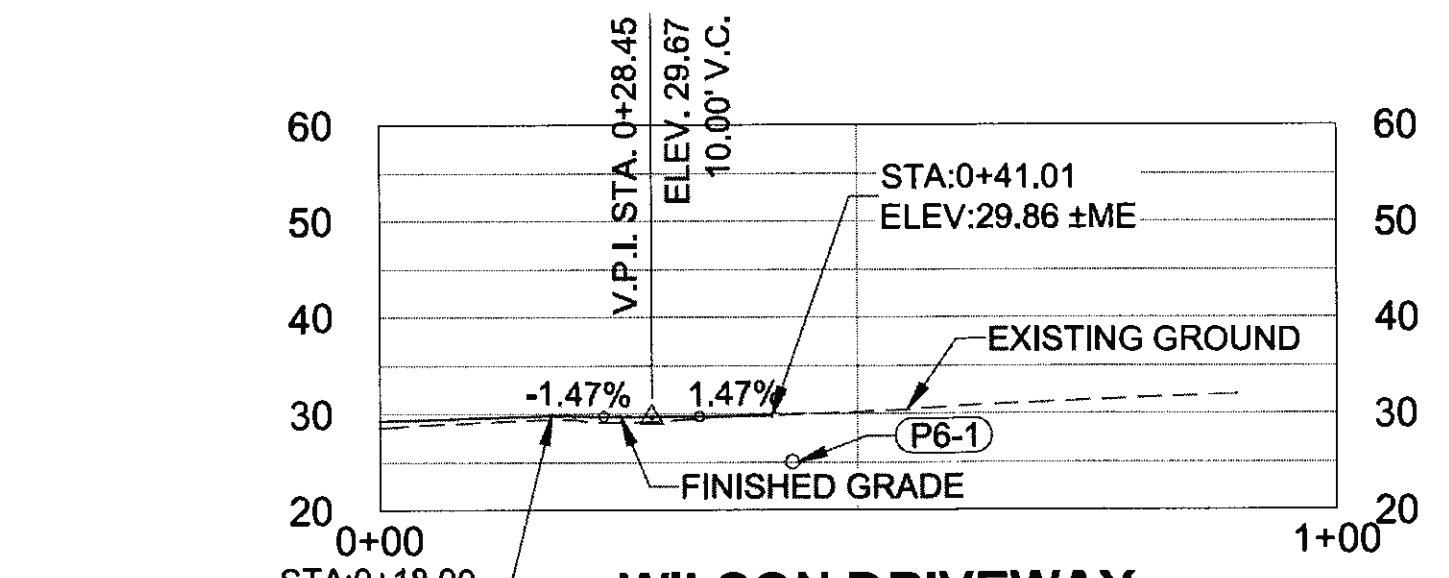
**SCHNABEL DRIVEWAY LOT 1 PLAN**



**SCHNABEL DRIVEWAY LOT 1 PROFILE**



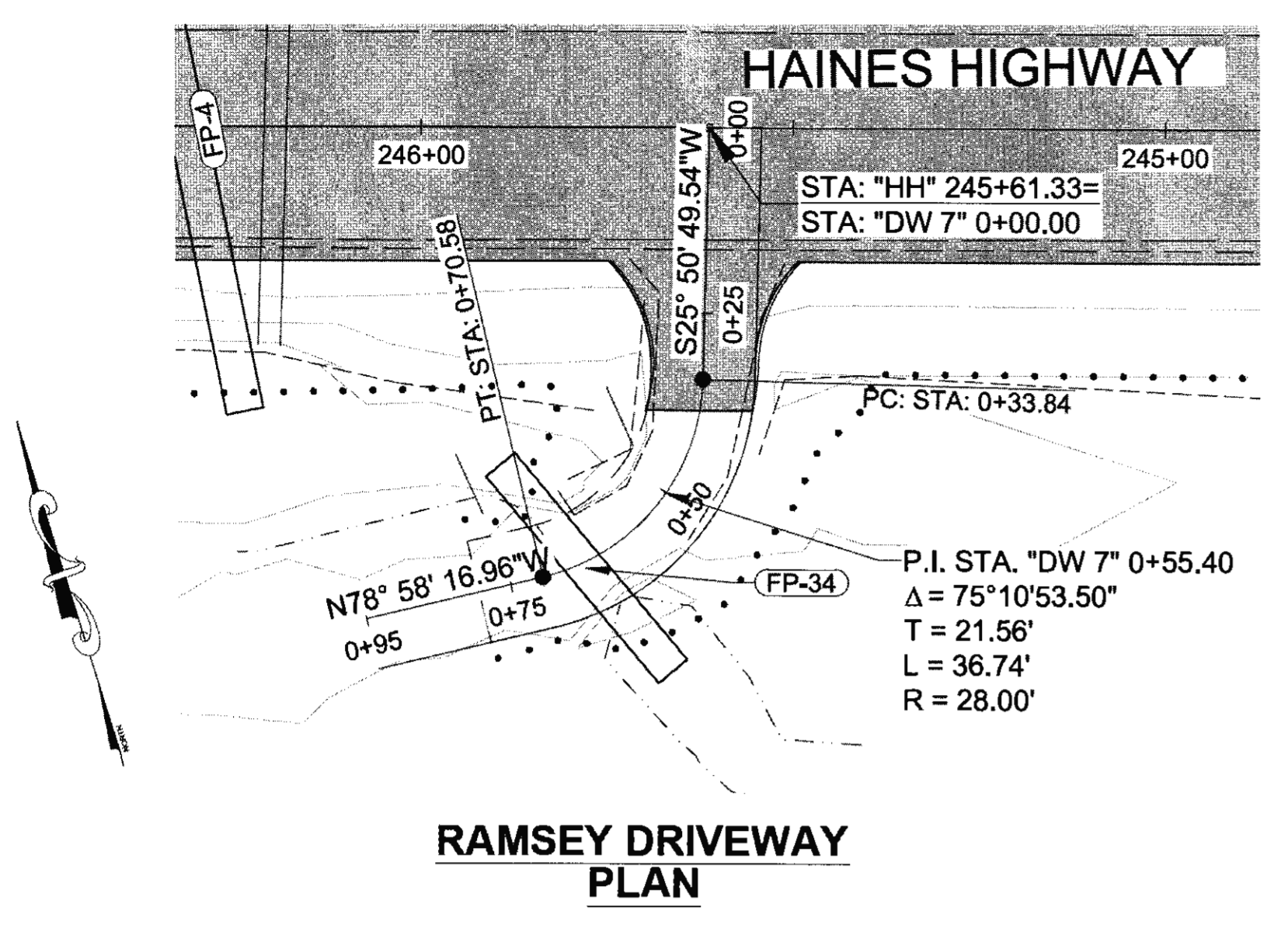
**WILSON DRIVEWAY PLAN**



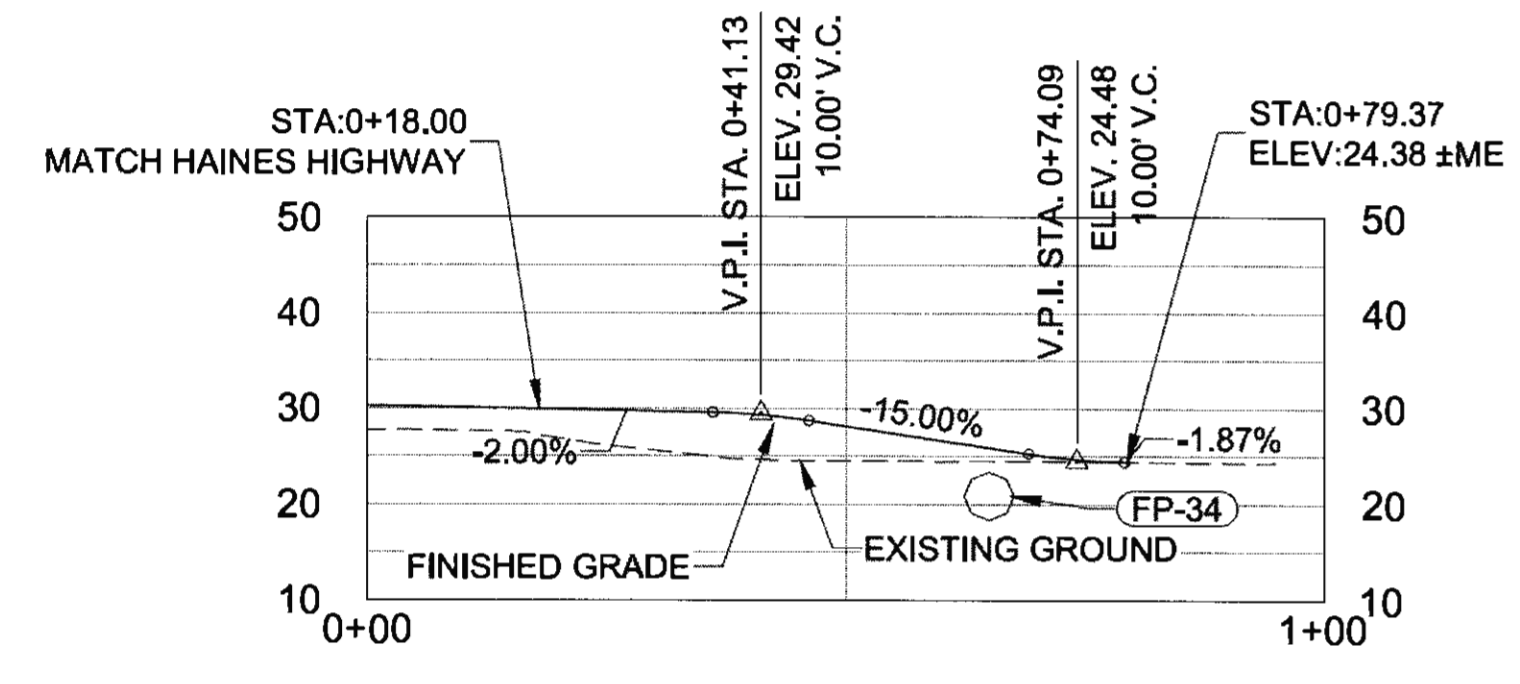
**WILSON DRIVEWAY PROFILE**

PHONE (907) 780-3533 CHECKED S. NOBLE DRAFTED S. TYLER  
 DESIGNED N. HOBBS  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 6/20/2017 13:36 LAYOUT 1/67  
 FIRM DOWL  
 FILE 0:\24\161850-01\65CAD\MP 3-12\_PSE\G SHEETS\G6-69.dwg

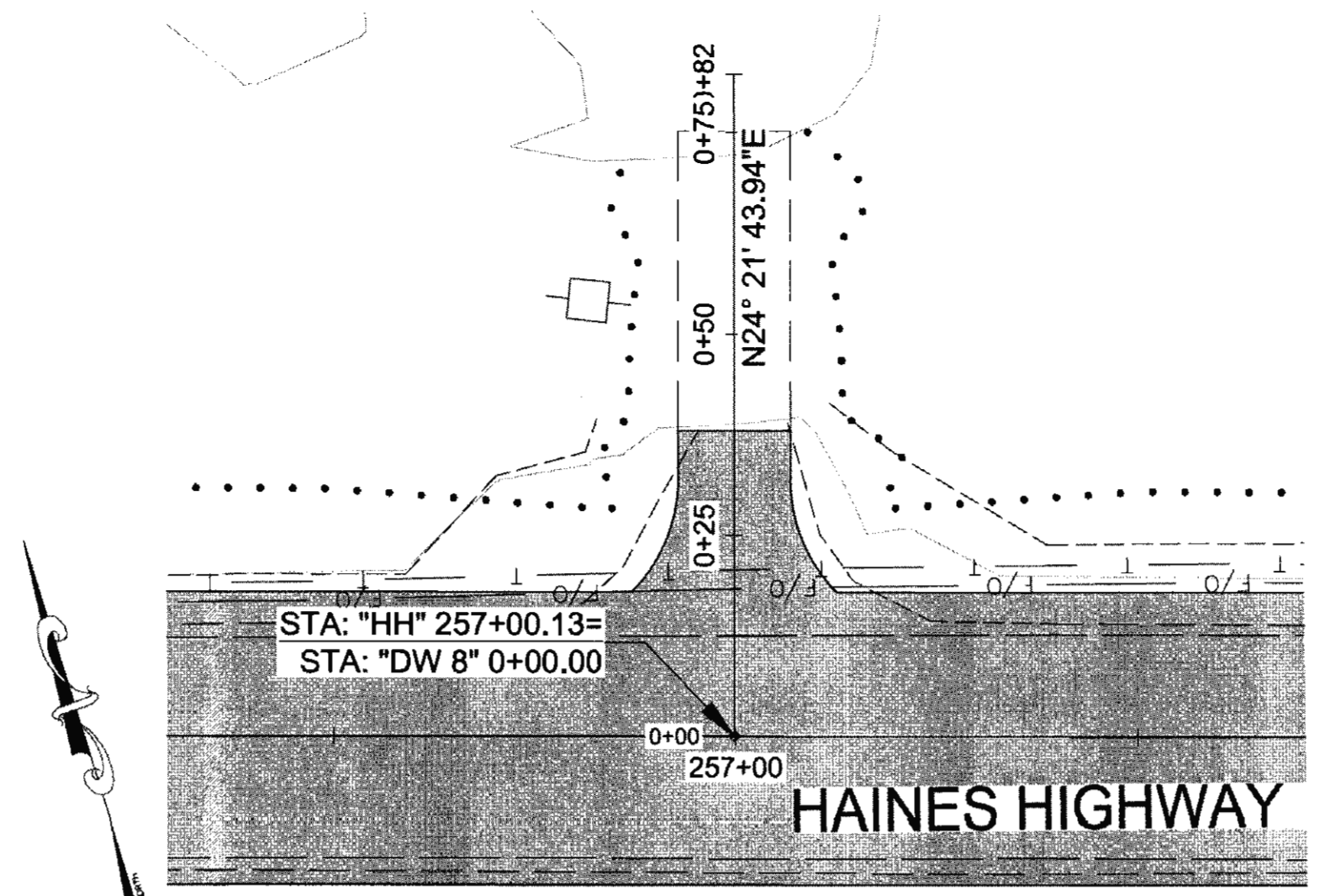
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G7	162



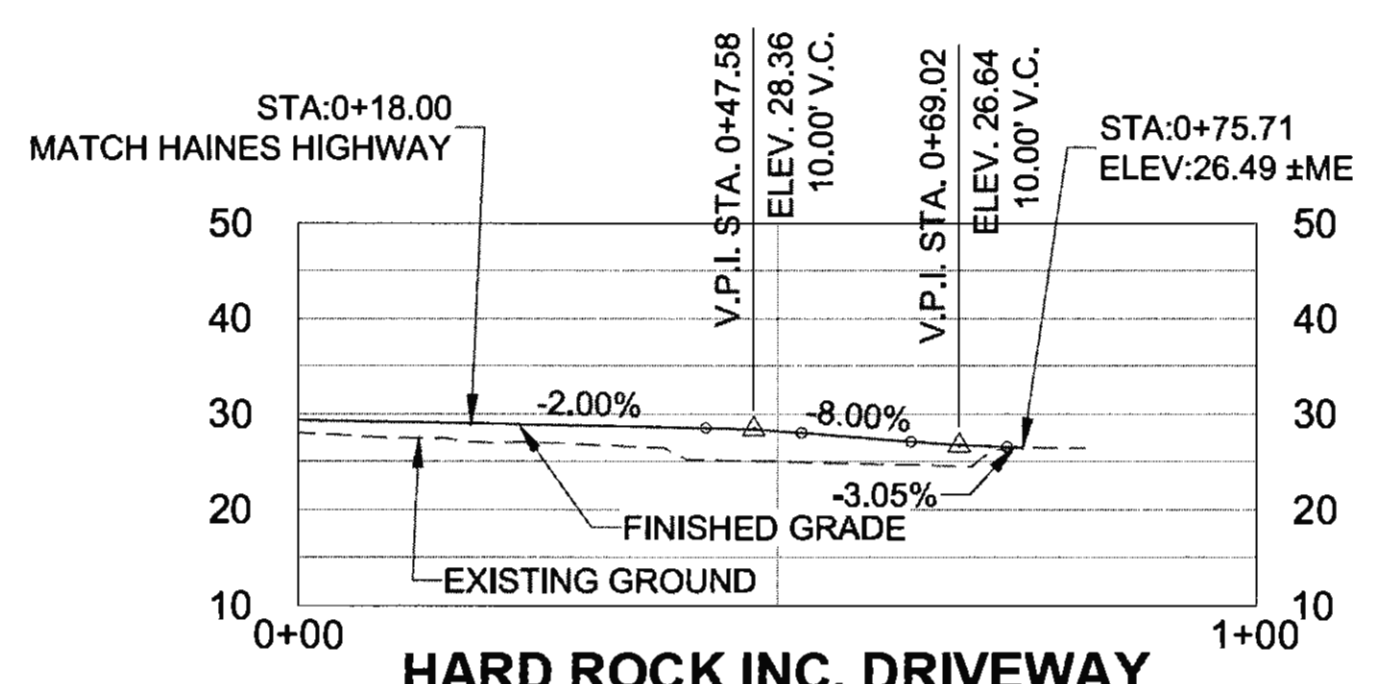
**RAMSEY DRIVEWAY PLAN**



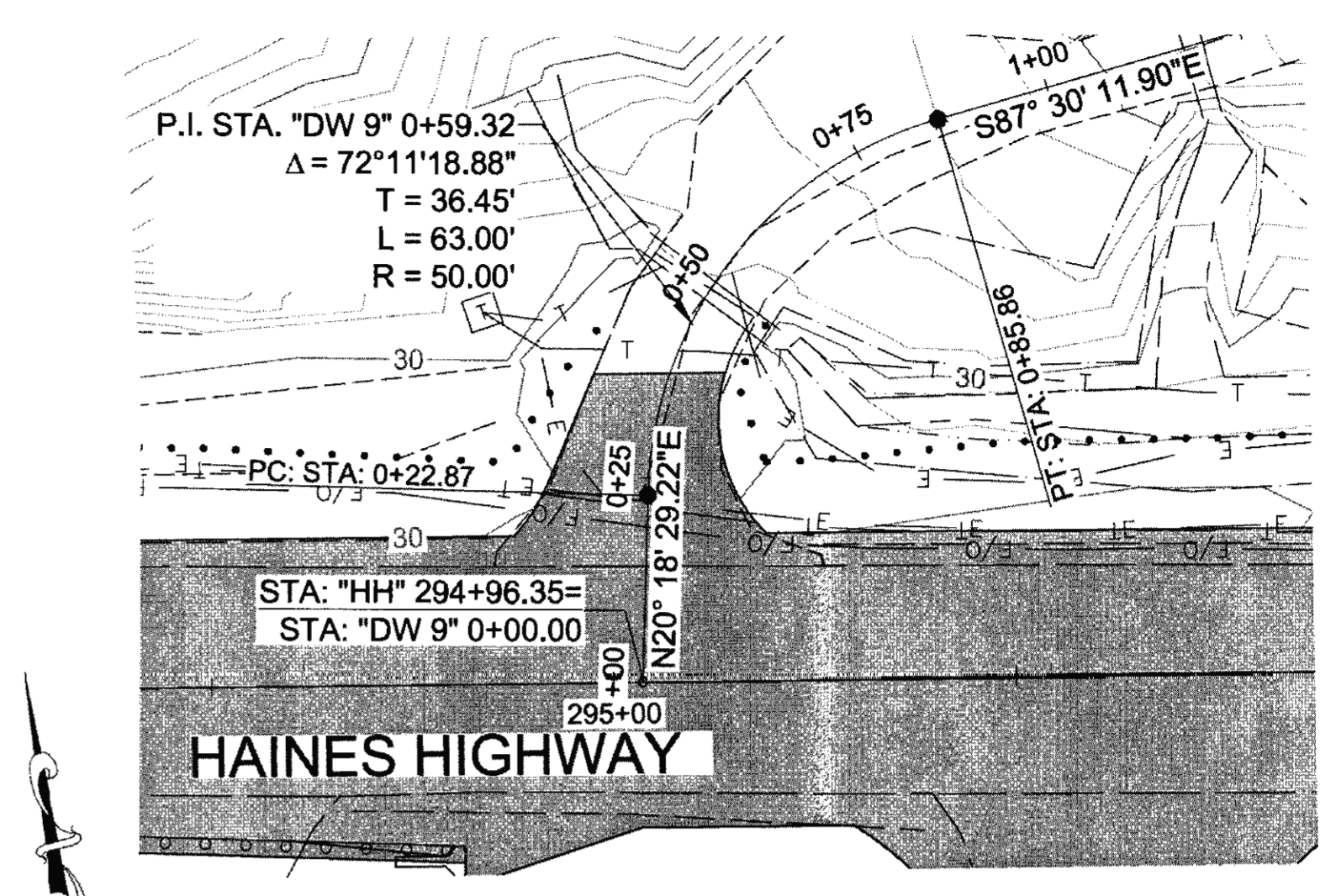
**RAMSEY DRIVE PROFILE**



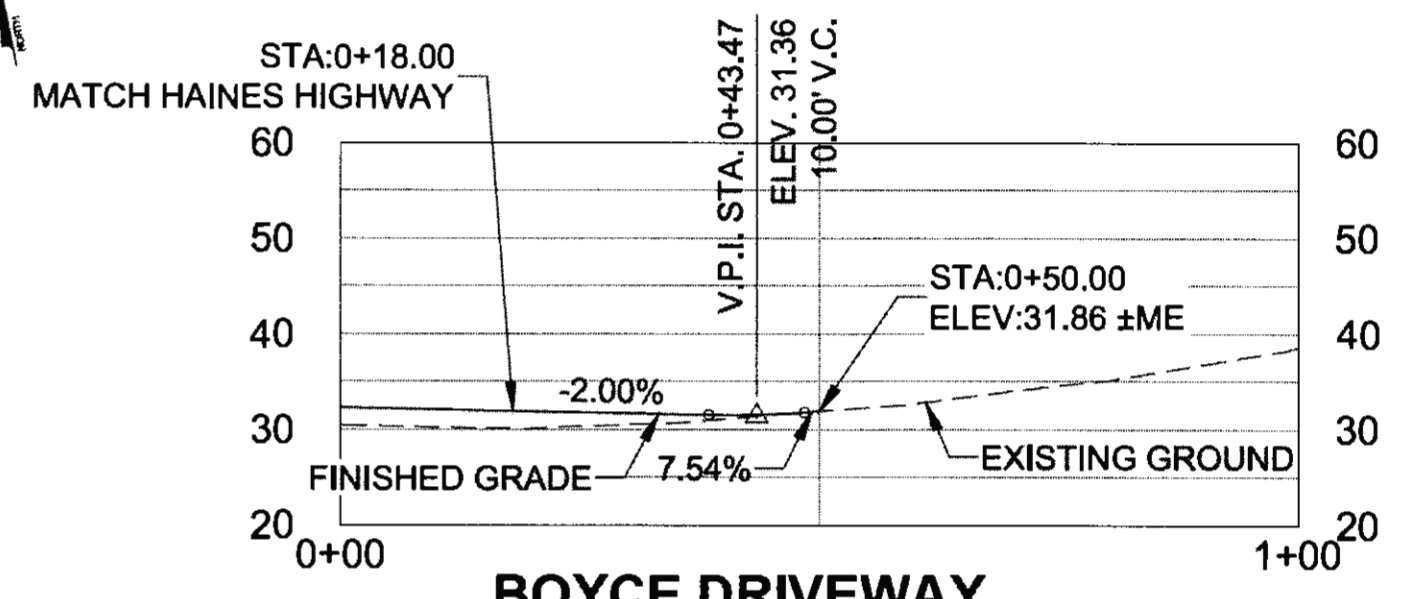
**HARD ROCK INC. DRIVEWAY LOT 4 PLAN**



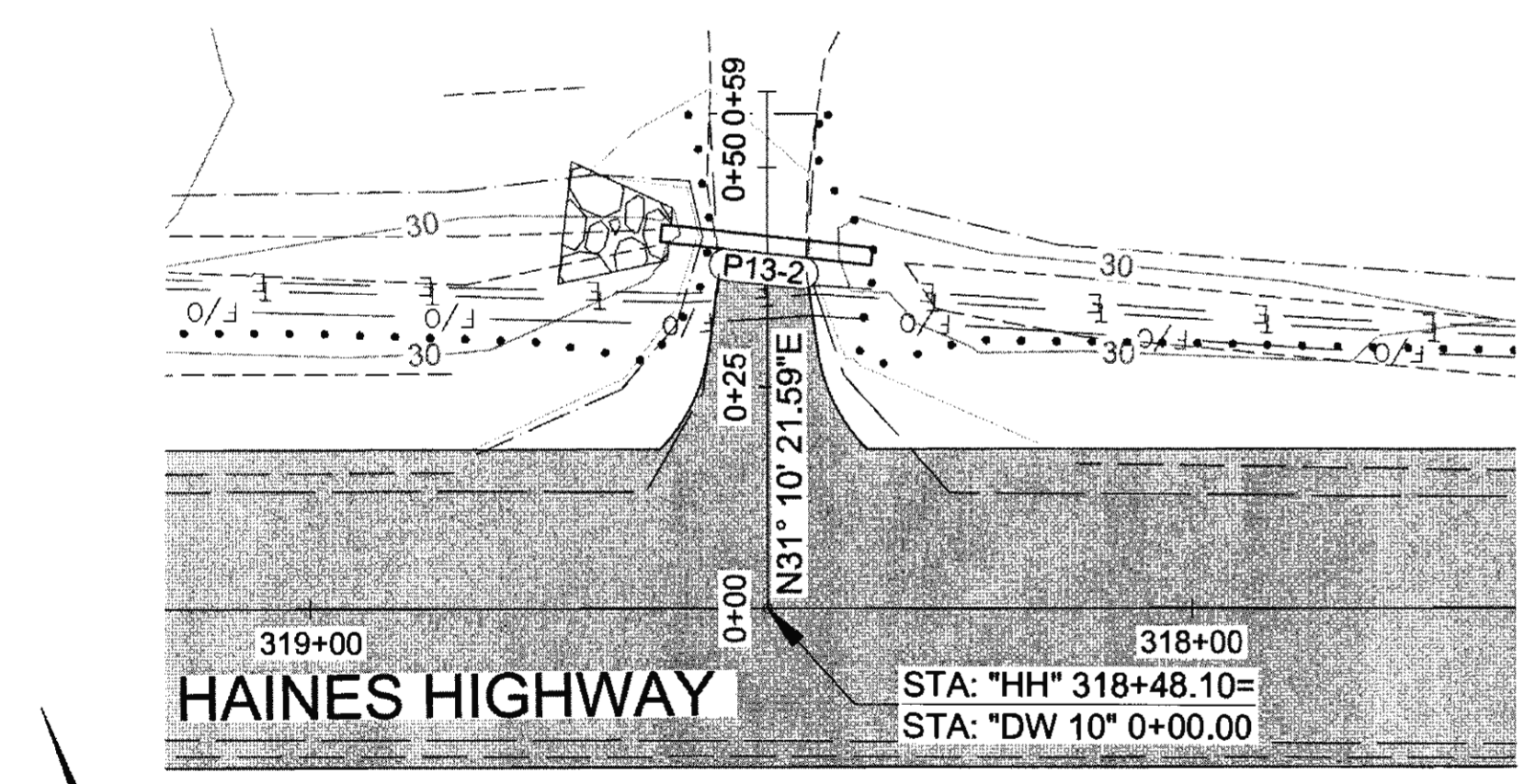
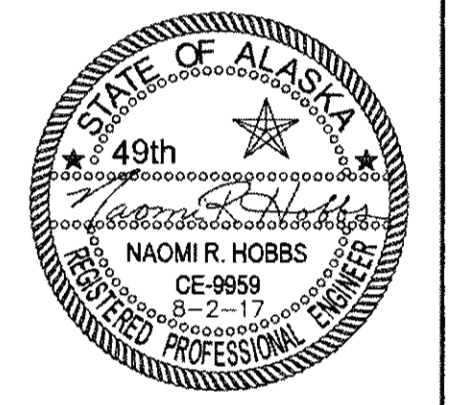
**HARD ROCK INC. DRIVEWAY LOT 4 PROFILE**



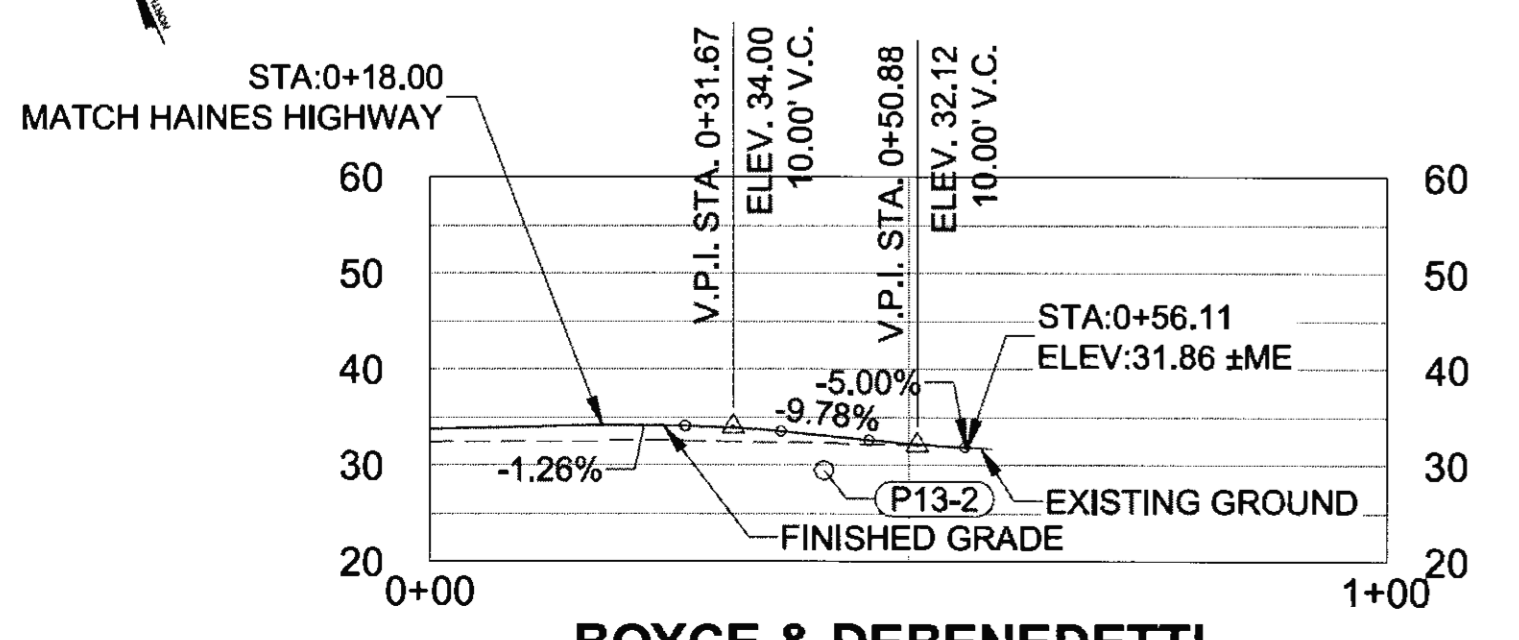
**BOYCE DRIVEWAY PLAN**



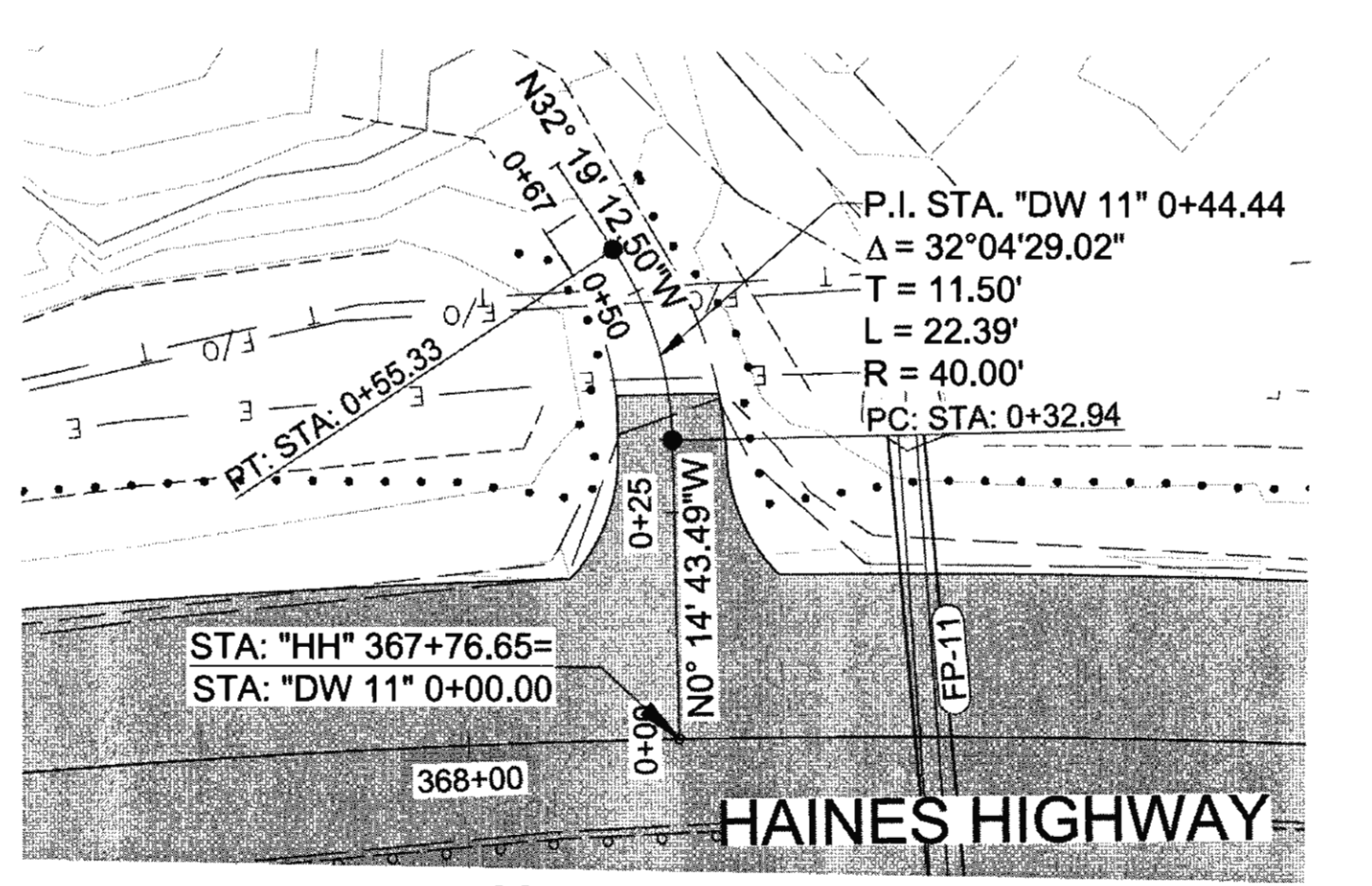
**BOYCE DRIVEWAY PROFILE**



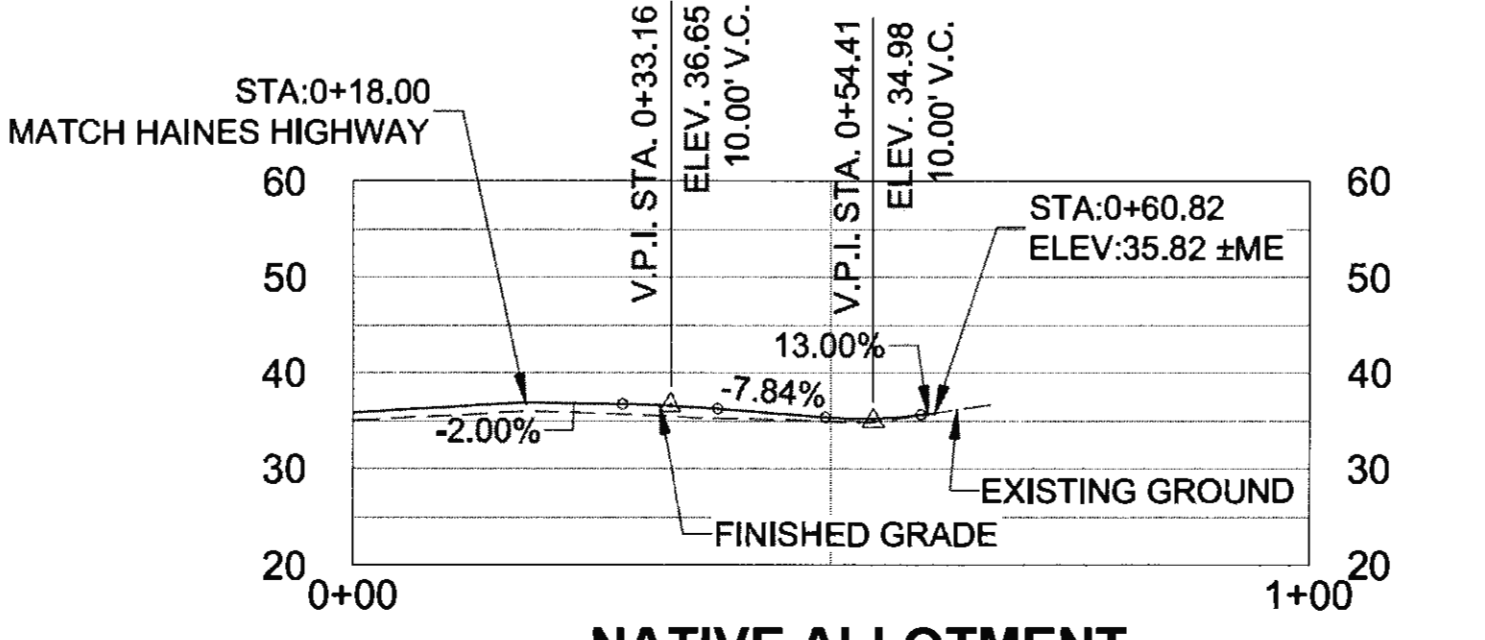
**BOYCE & DEBENEDETTI DRIVEWAY PLAN**



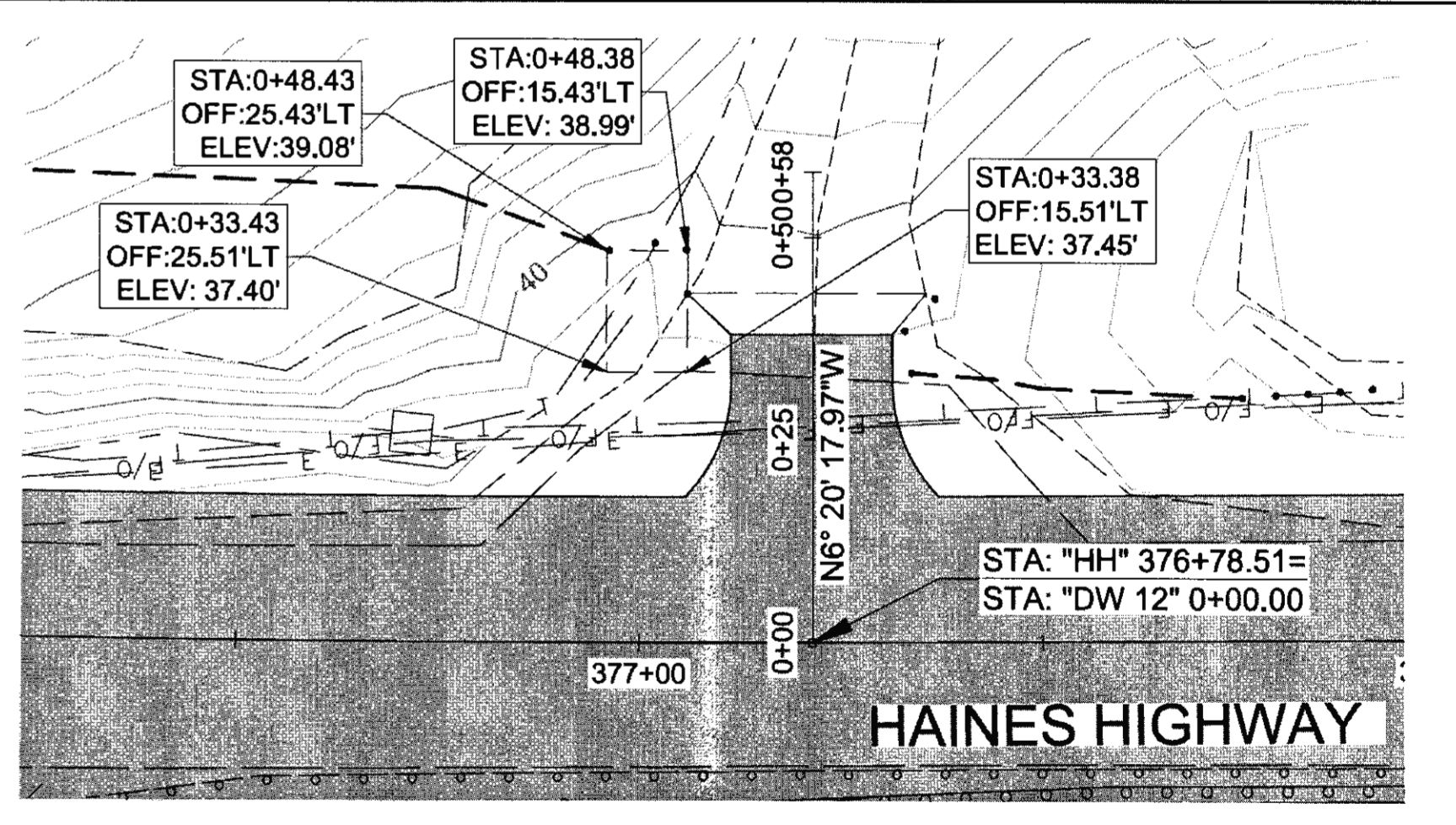
**BOYCE & DEBENEDETTI DRIVEWAY PROFILE**



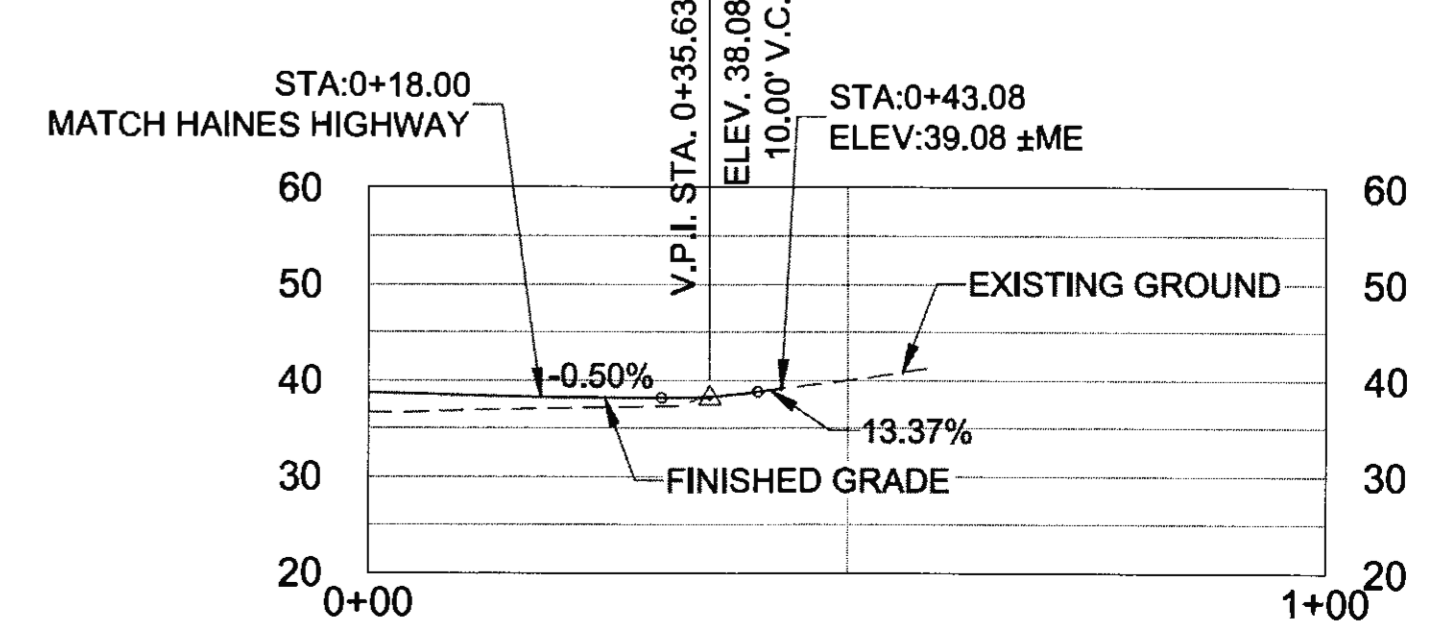
**NATIVE ALLOTMENT DRIVEWAY LOT 1 PLAN**



**NATIVE ALLOTMENT DRIVEWAY LOT 1 PROFILE**



**DRIVEWAY 12 PLAN**

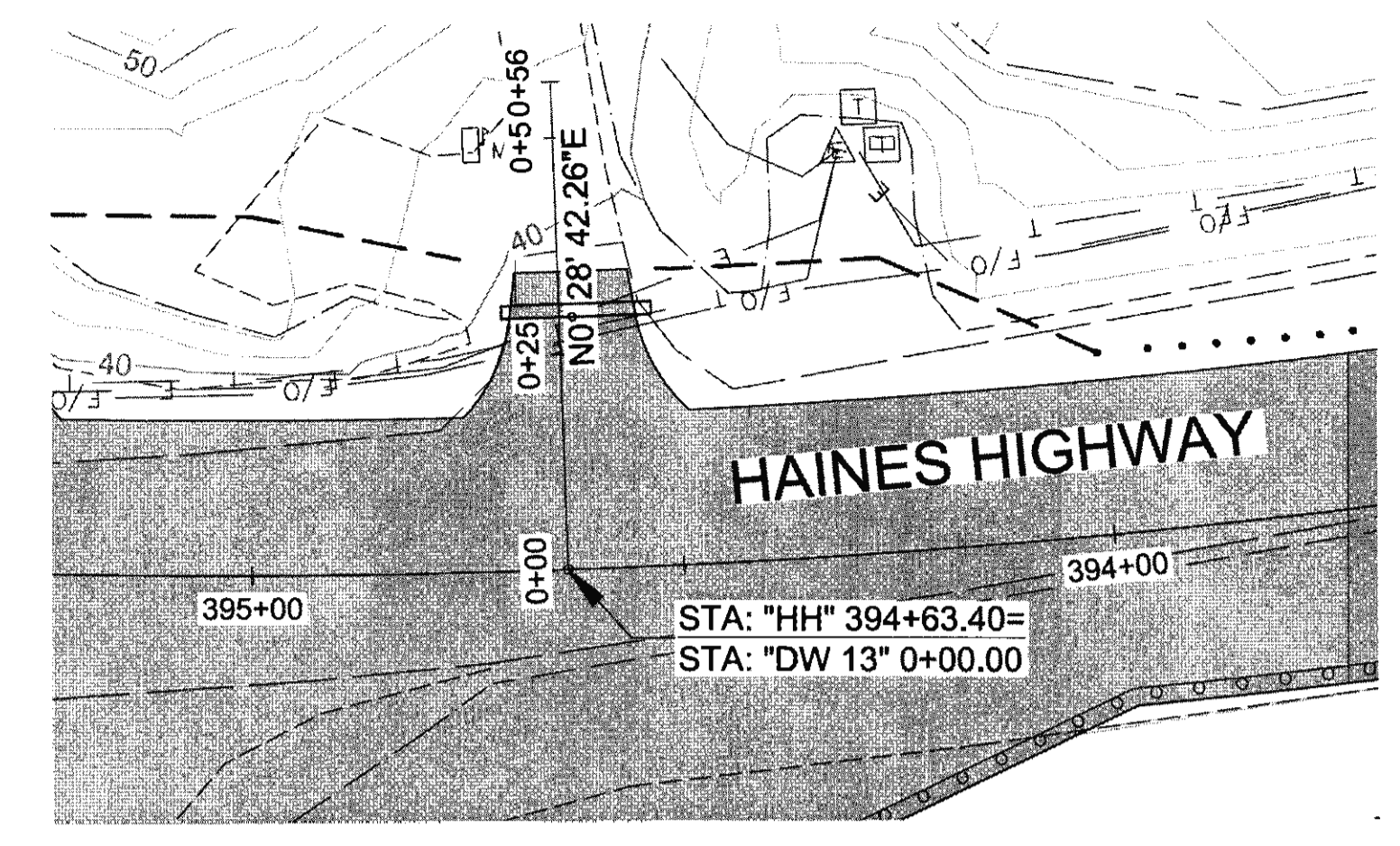


**DRIVEWAY 12 PROFILE**

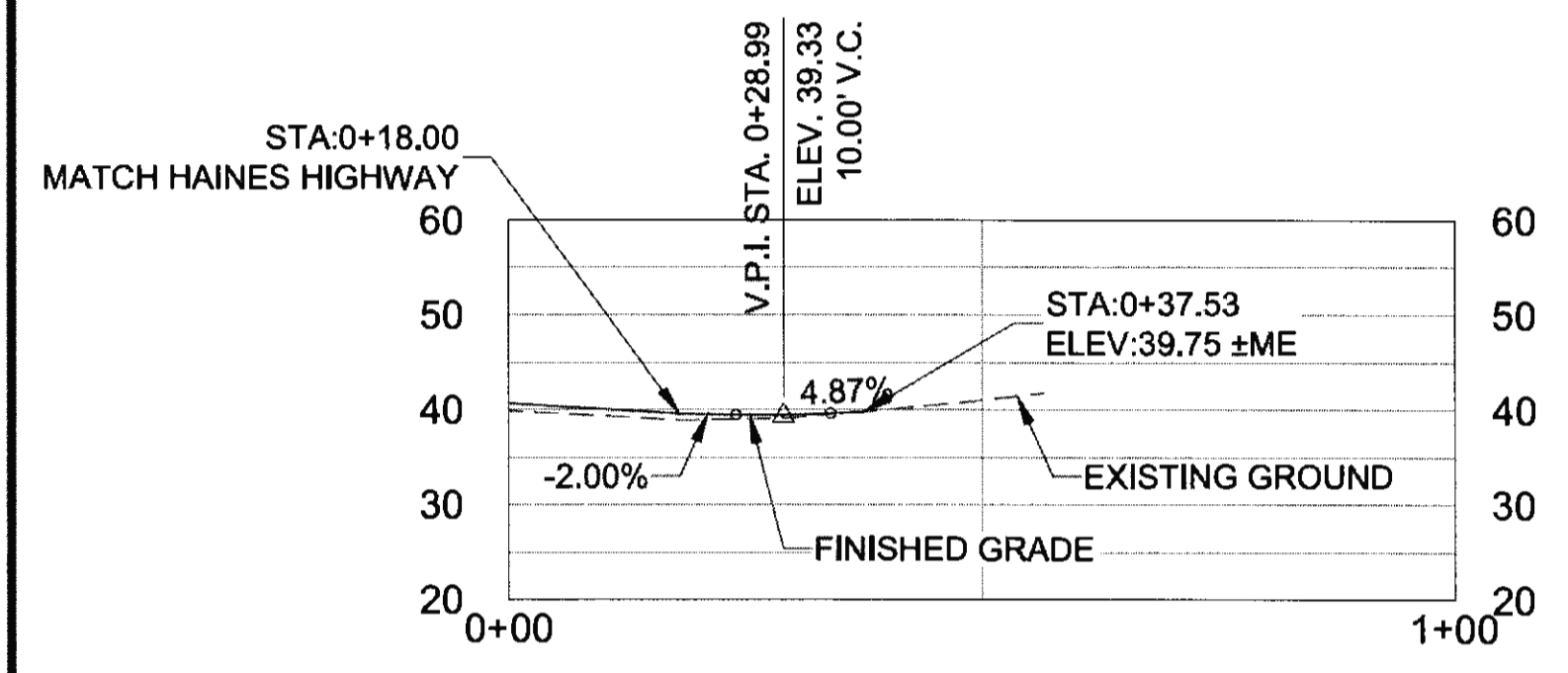


FIRM: DOWL  
 FILE: 0:\24\1850-01\65CAD\MP\_3-12\_PSE\G\_SHEETS\G6-G9.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. ROBBES  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/20/2017 13:36  
 LAYOUT: G8  
 CERTIFICATE OF AUTHORITY #: AECL848

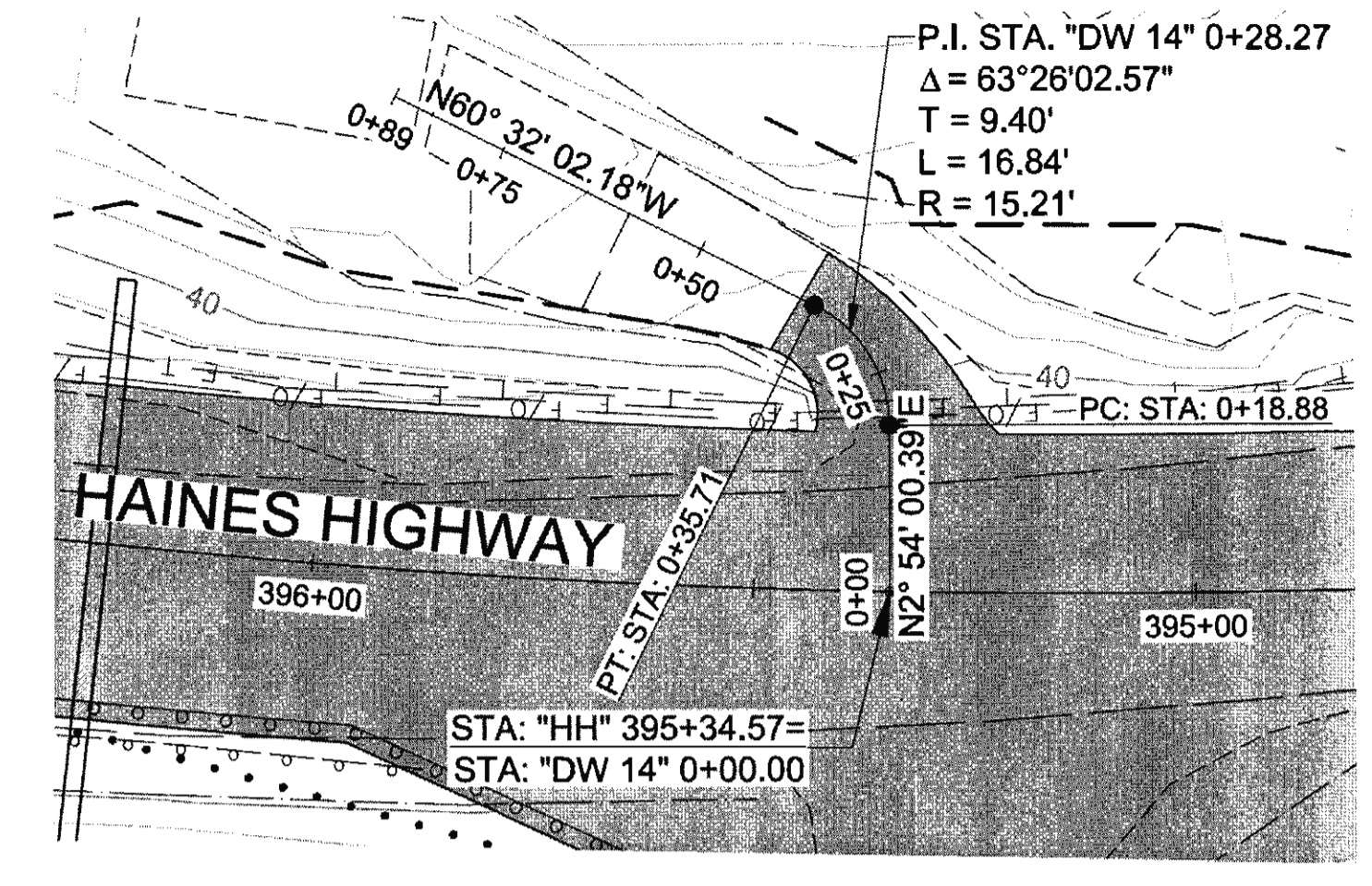
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G8	162



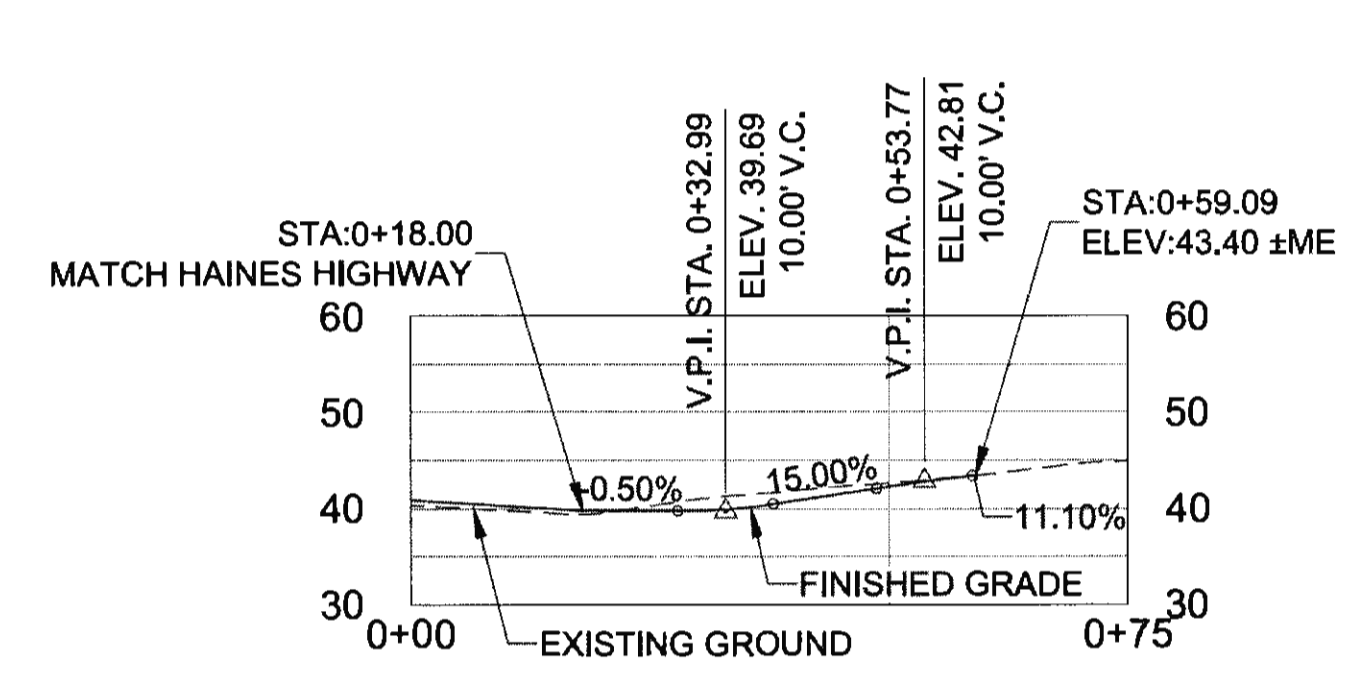
**POVEY-MARTINEZ DRIVEWAY PLAN**



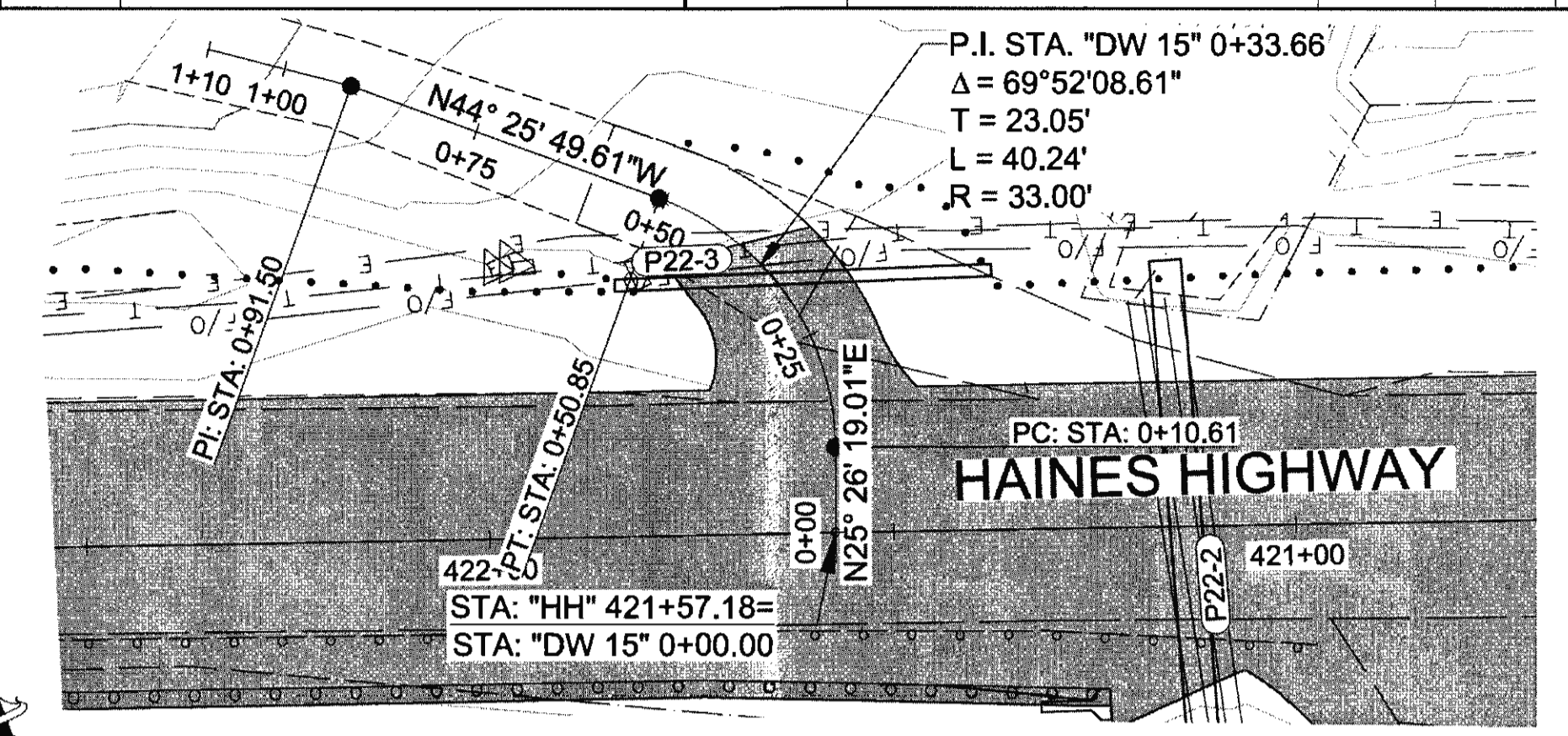
**POVEY-MARTINEZ DRIVEWAY PROFILE**



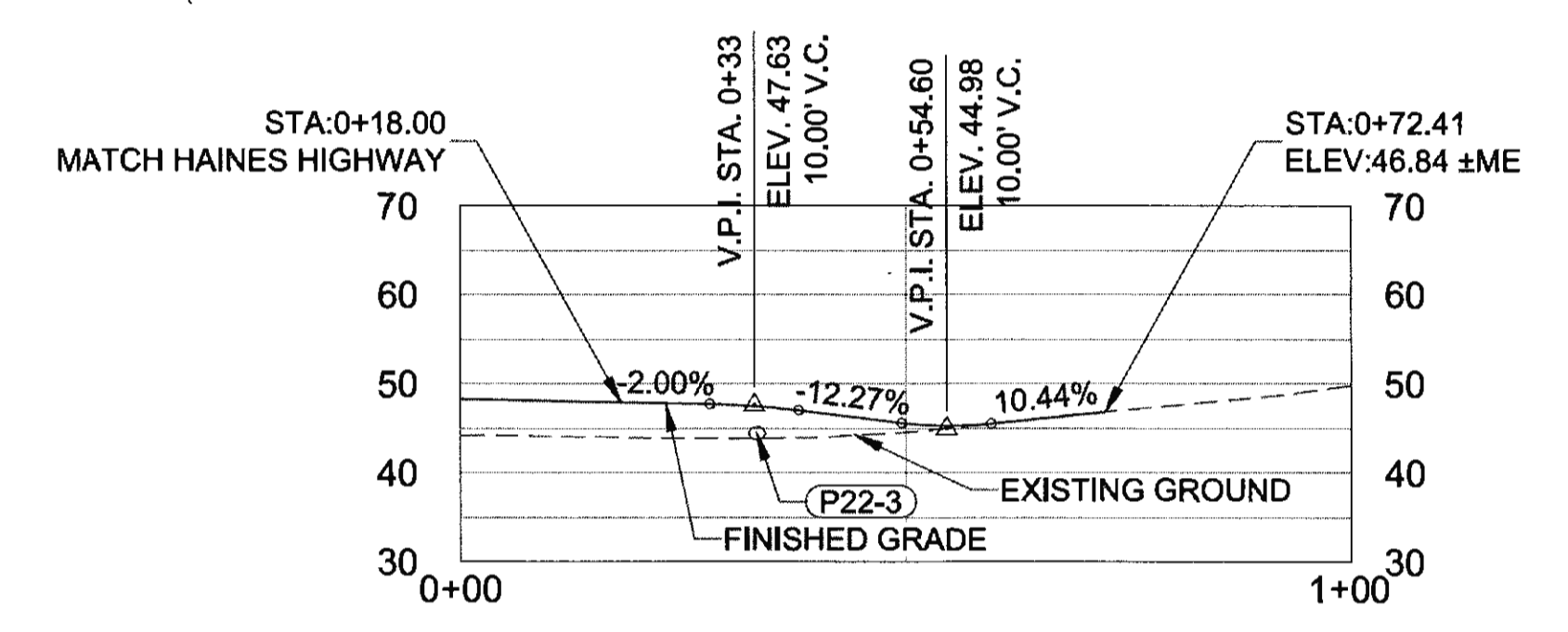
**POVEY-MARTINEZ DRIVEWAY PLAN**



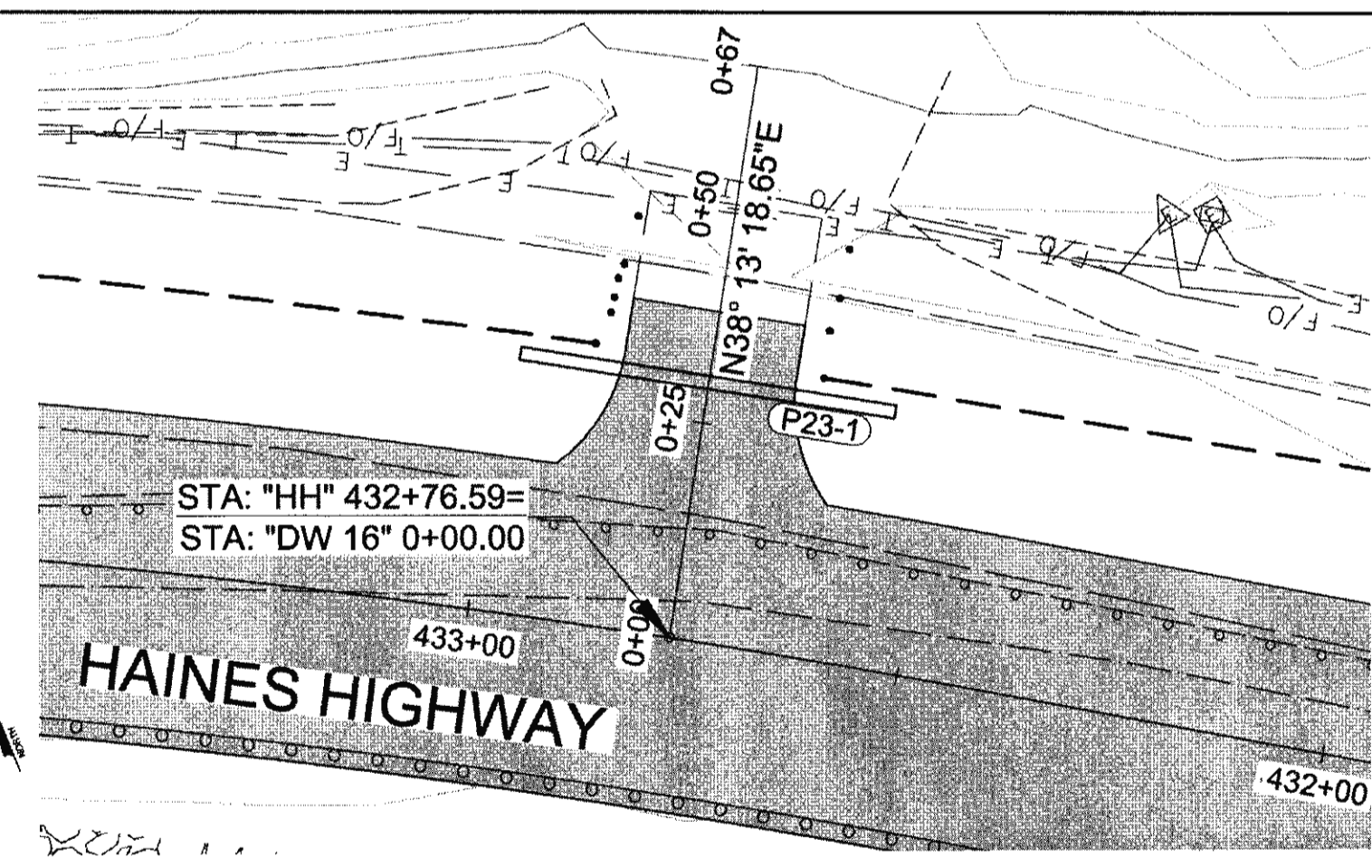
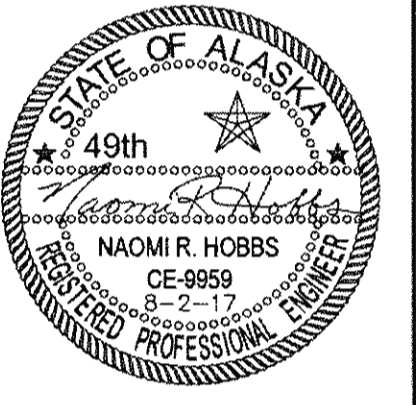
**POVEY-MARTINEZ DRIVEWAY PROFILE**



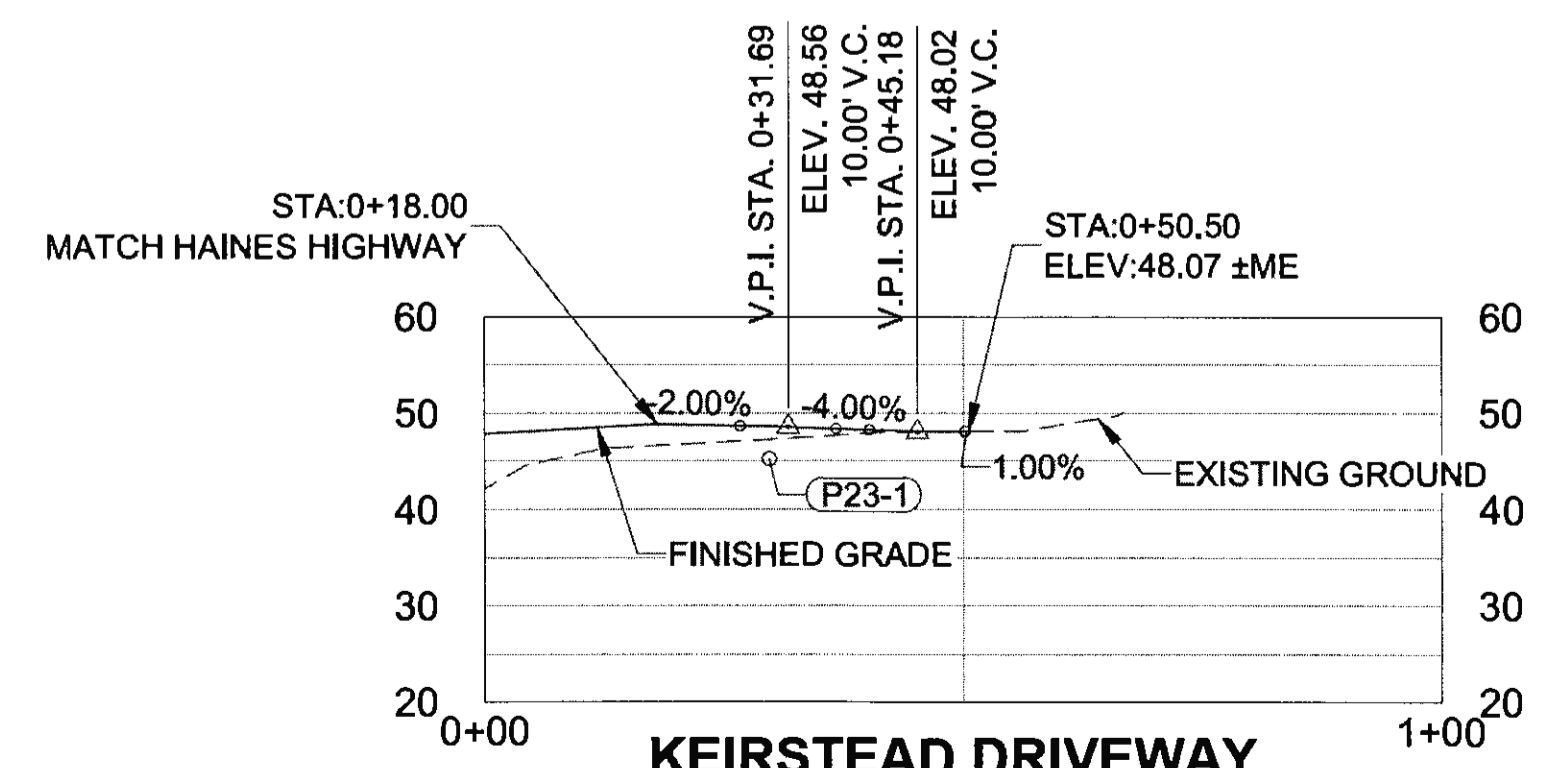
**PIGGOT DRIVEWAY PLAN**



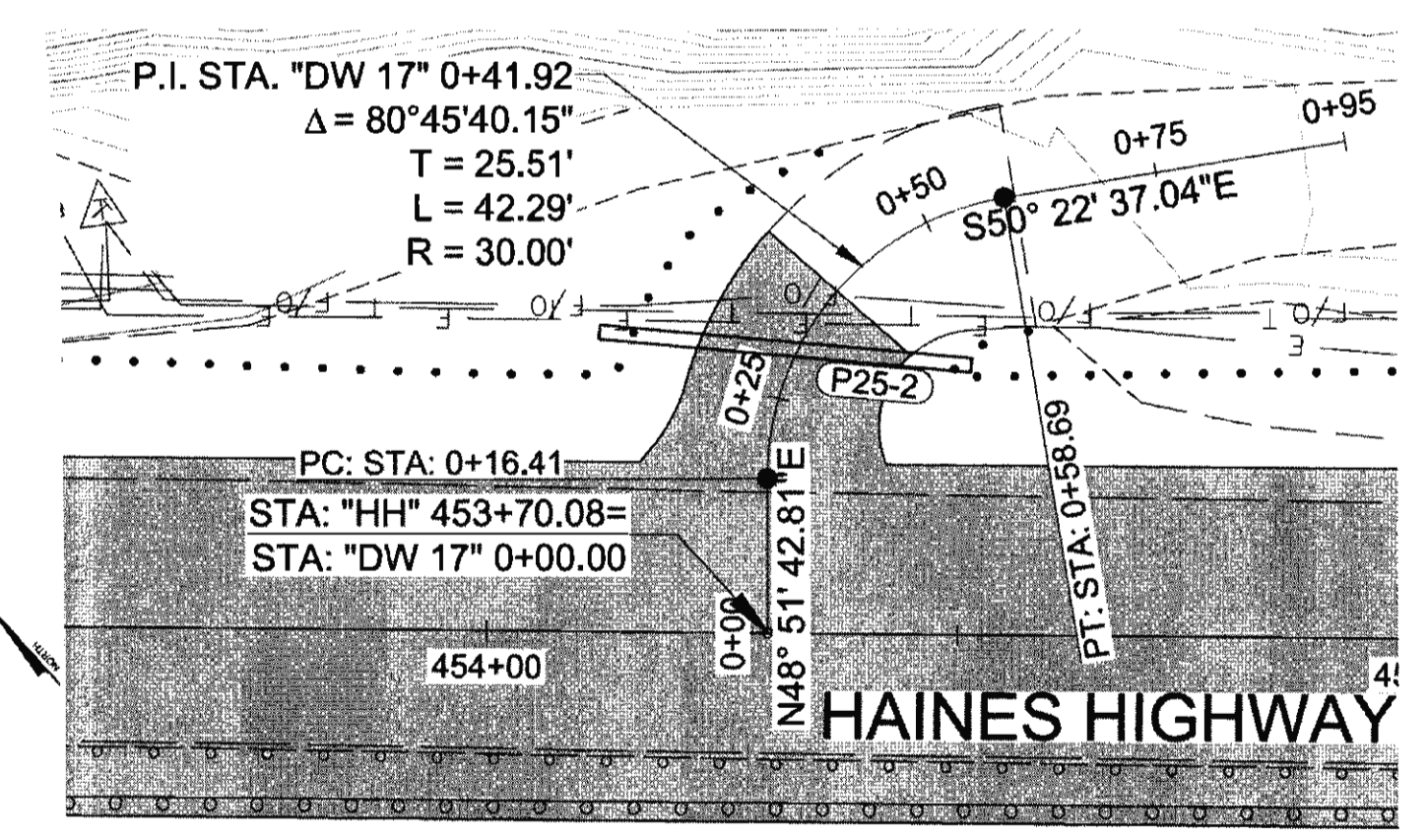
**PIGGOT DRIVEWAY PROFILE**



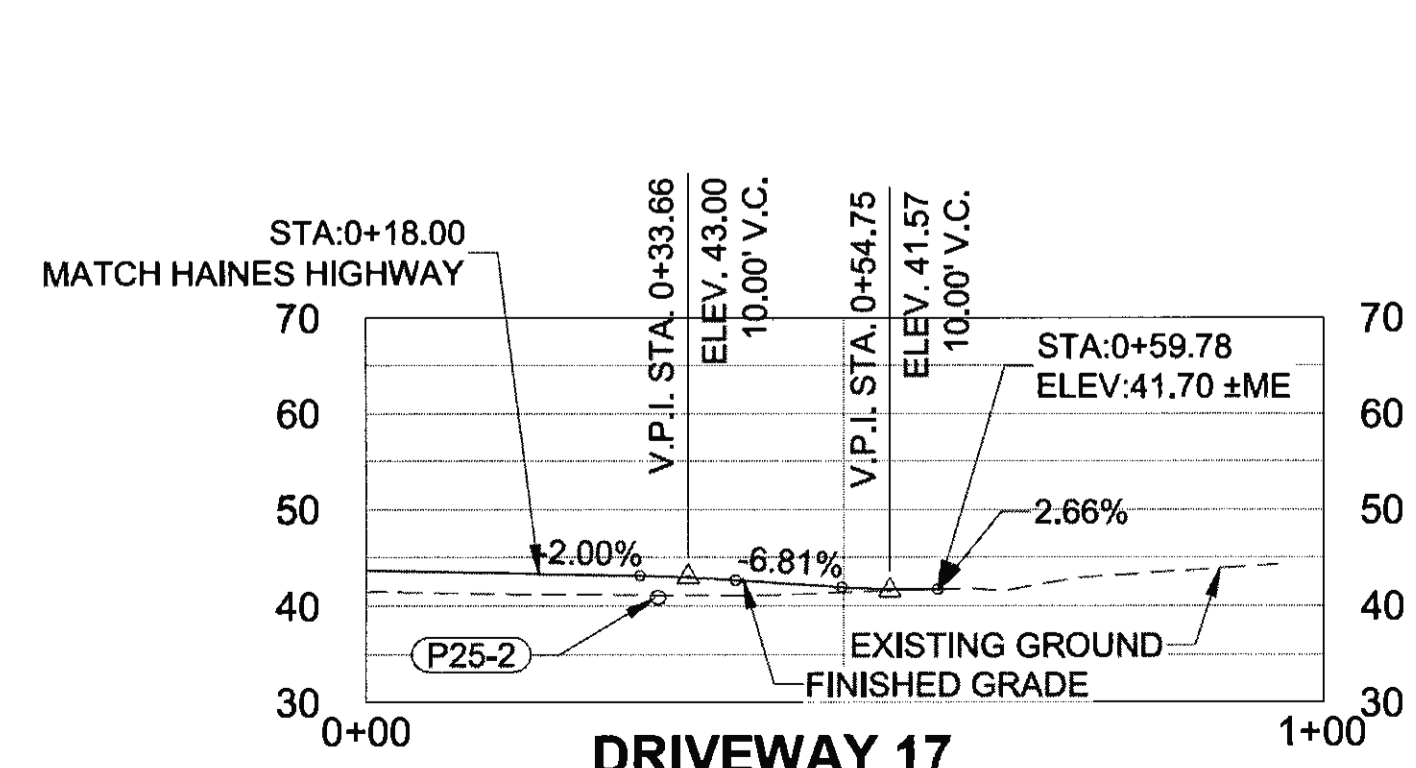
**KEIRSTEAD DRIVEWAY PLAN**



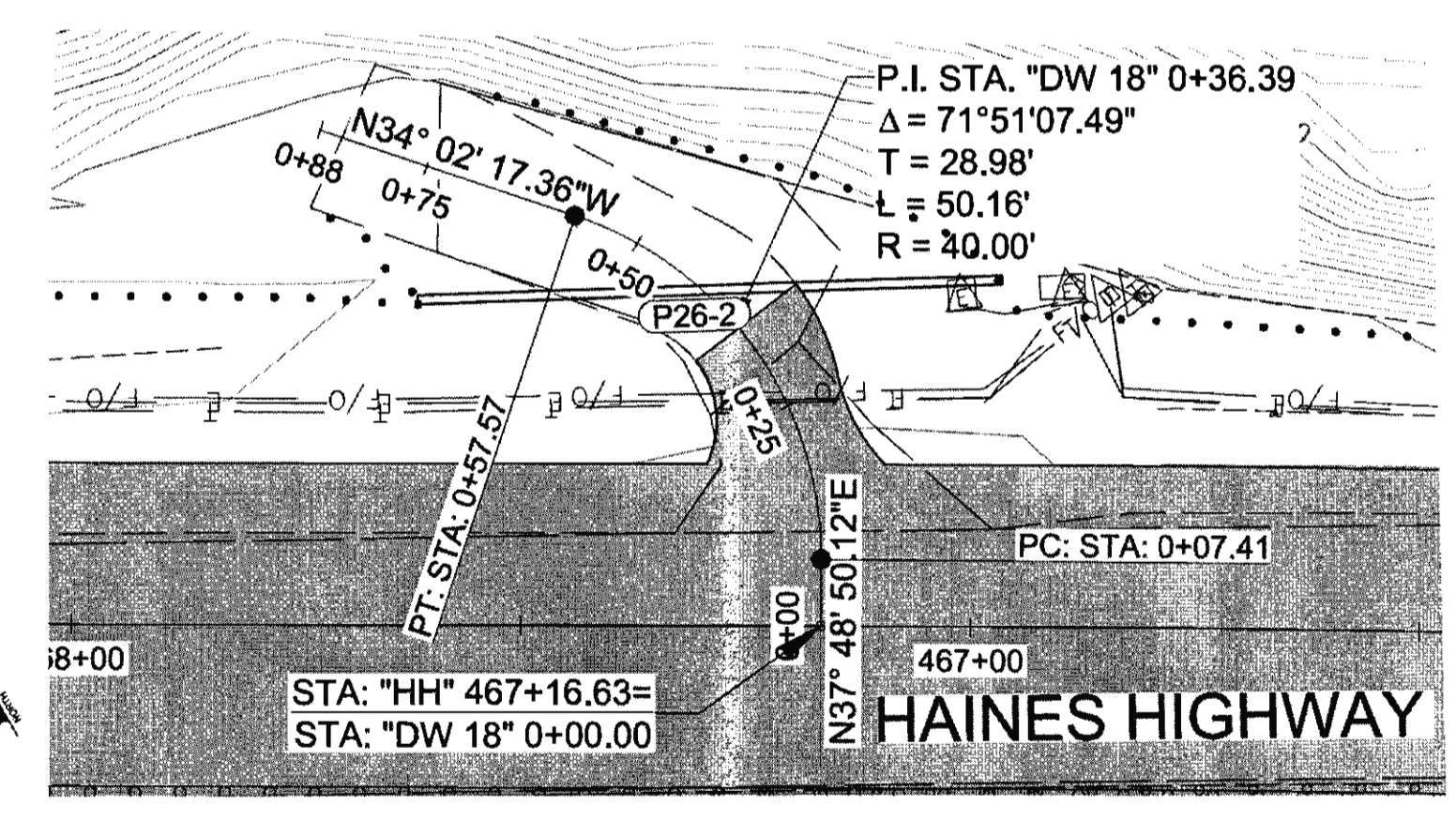
**KEIRSTEAD DRIVEWAY PROFILE**



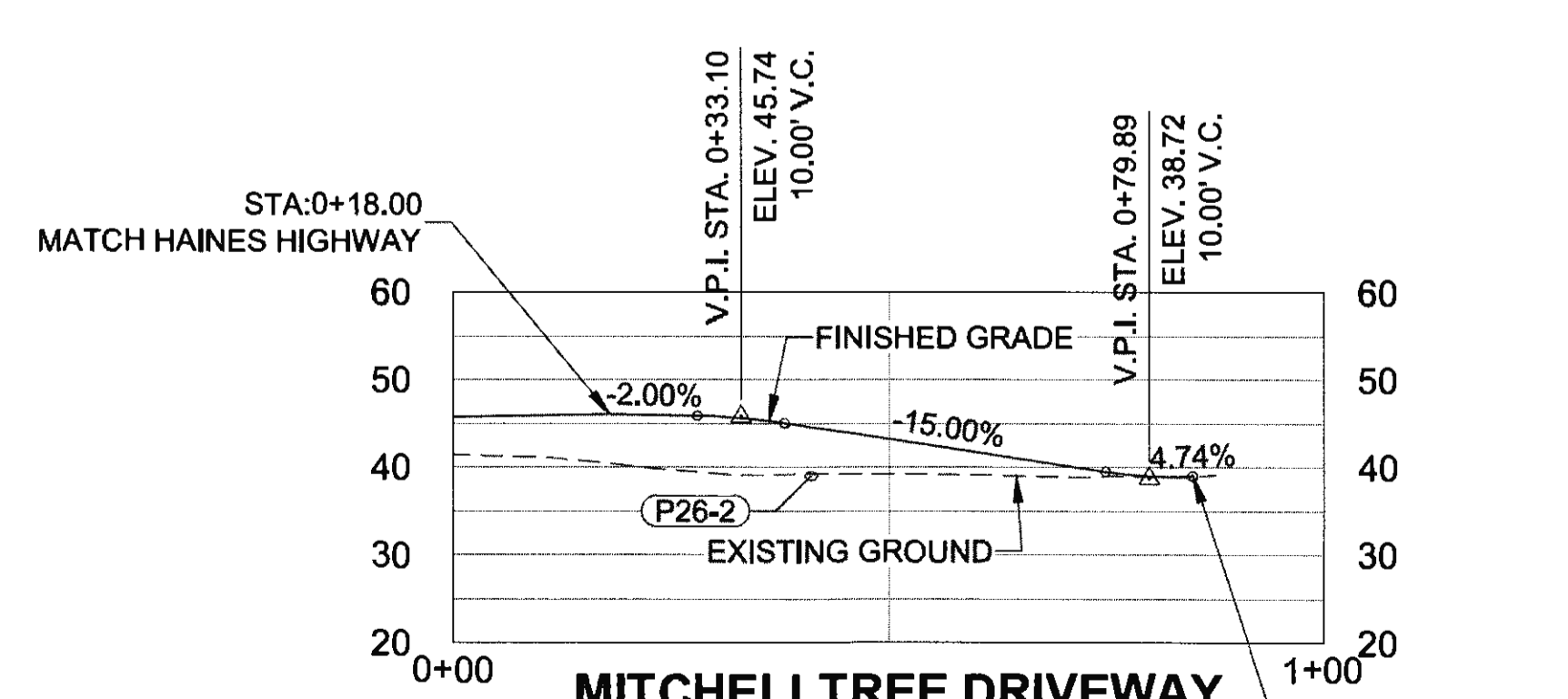
**DRIVEWAY 17 PLAN**



**DRIVEWAY 17 PROFILE**



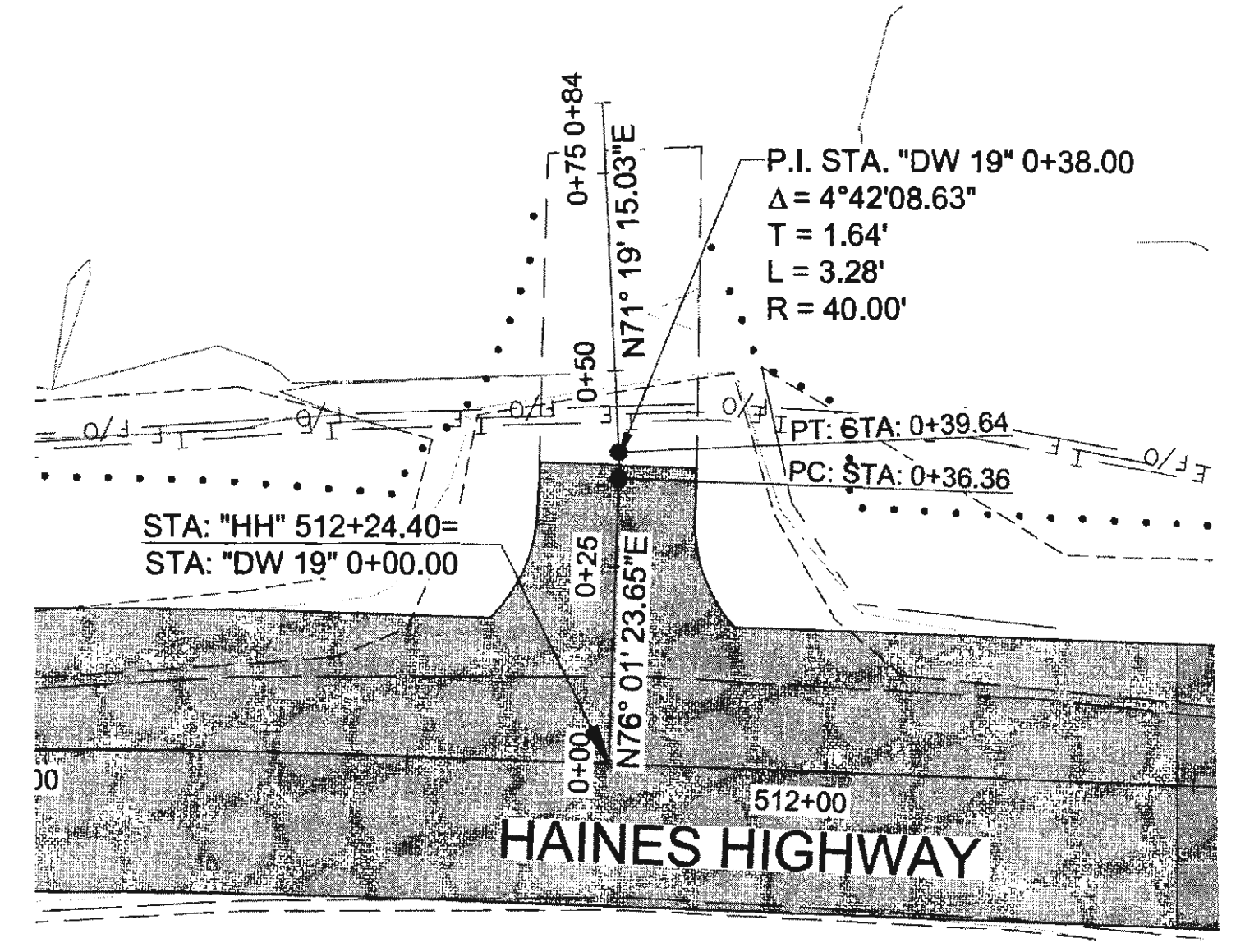
**MITCHELLTREE DRIVEWAY PLAN**



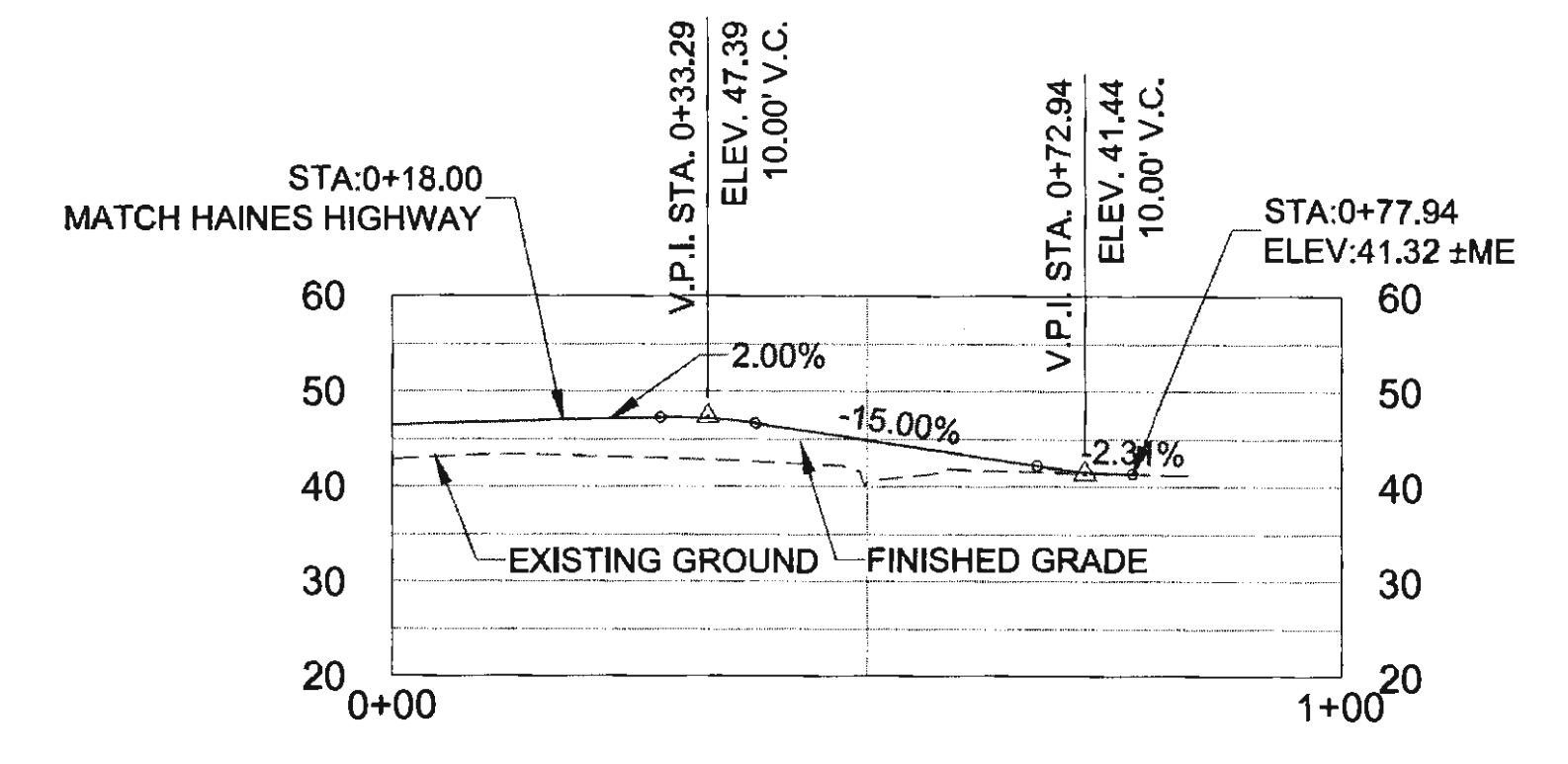
**MITCHELLTREE DRIVEWAY PROFILE**

FIRM: DOWL  
 FILE: 0:\24\61850-01\65CAD\MP 3-12 PSE\G SHEETS\G6-G9.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 6/20/2017 13:36  
 LAYOUT: G9  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1: AECL848

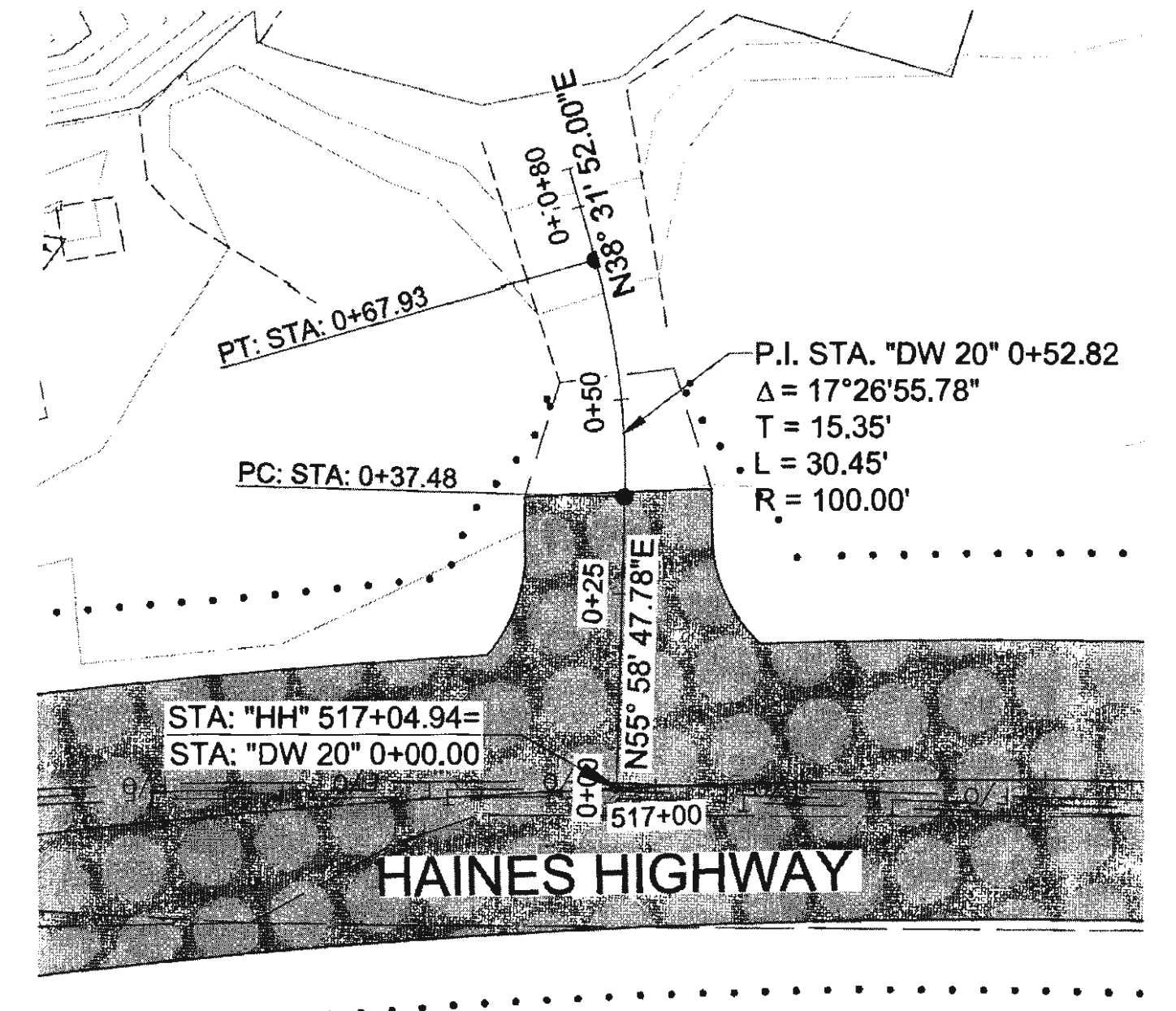
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	G9	162



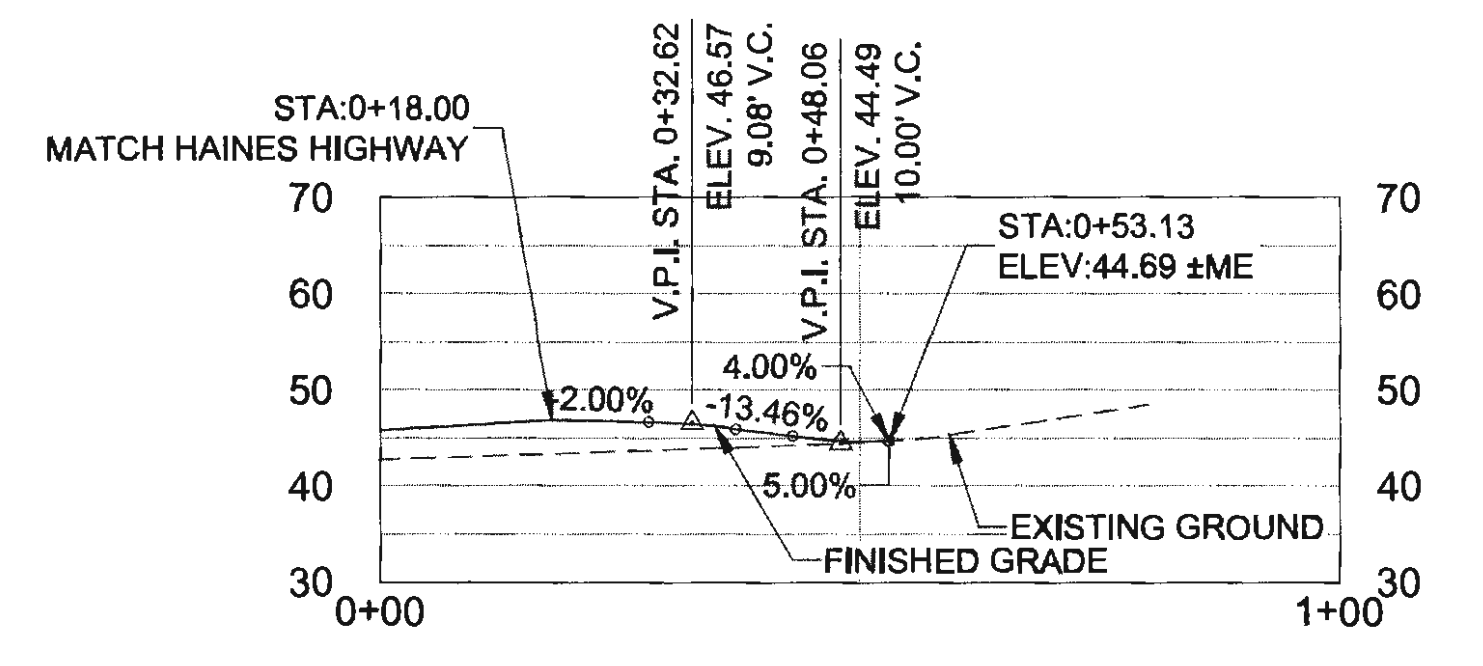
**FLORESKE DRIVEWAY PLAN**



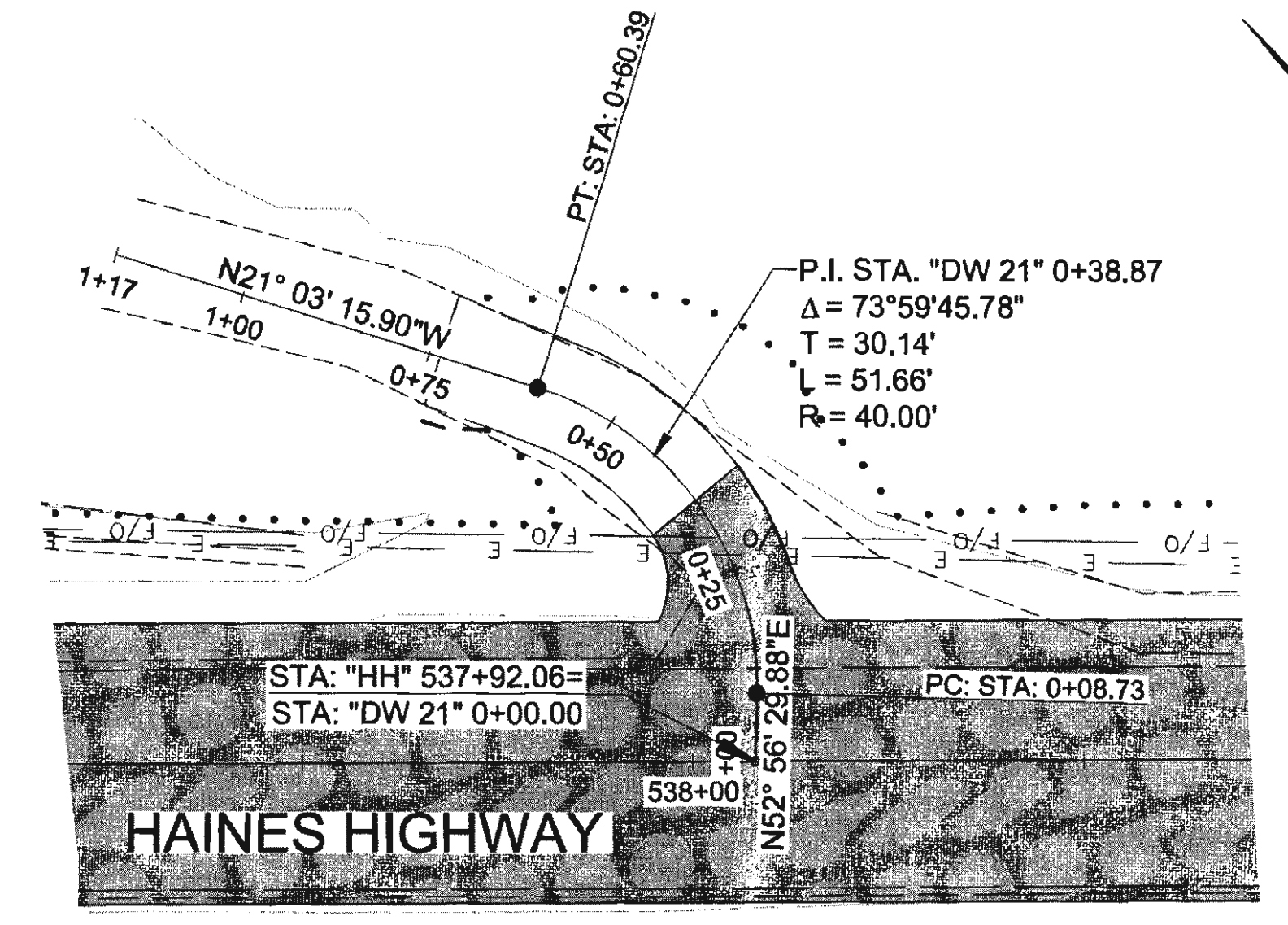
**FLORESKE DRIVEWAY PROFILE**



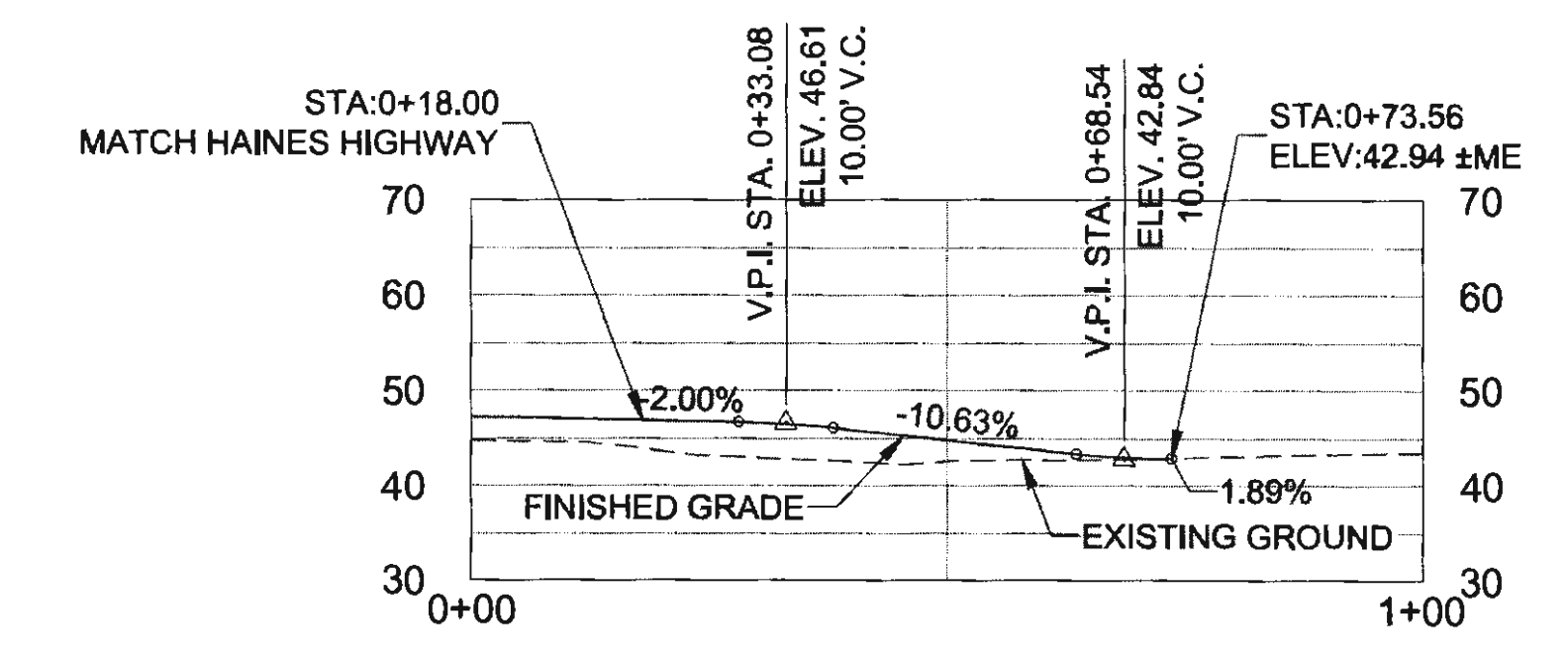
**DRIVEWAY 20 PLAN**



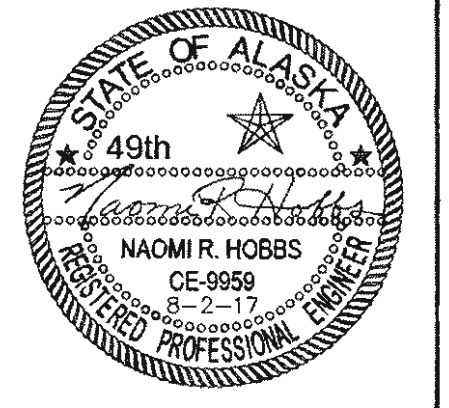
**DRIVEWAY 20 PROFILE**



**WACKERMAN DRIVEWAY PLAN**

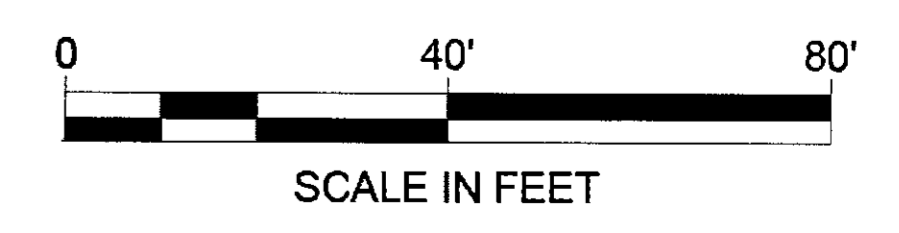
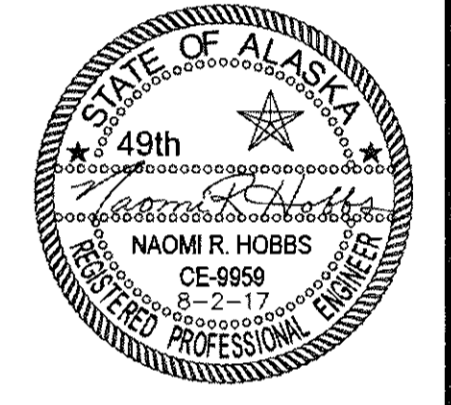
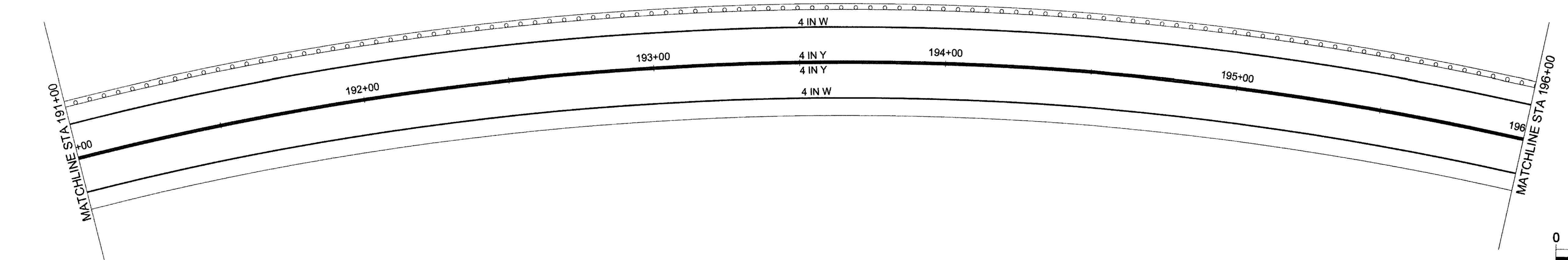
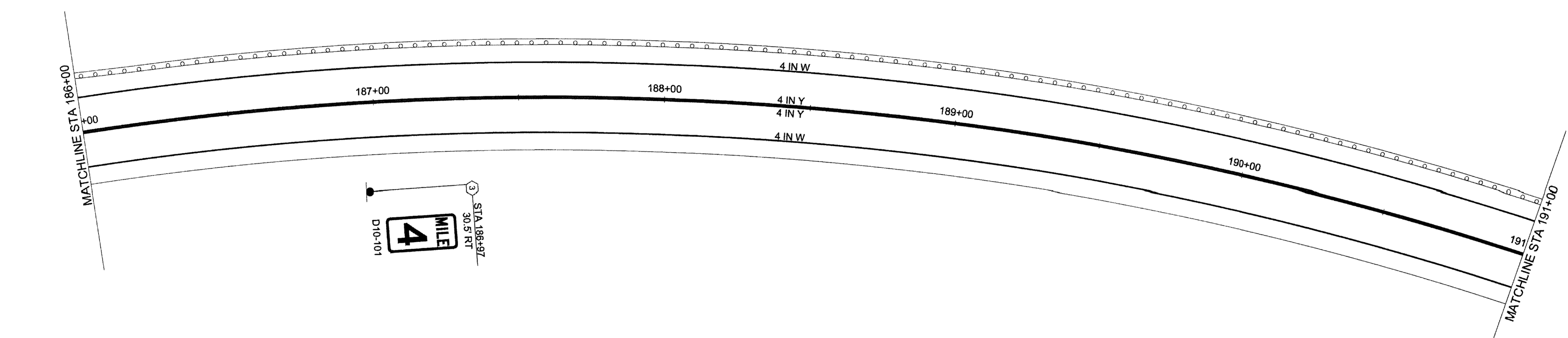
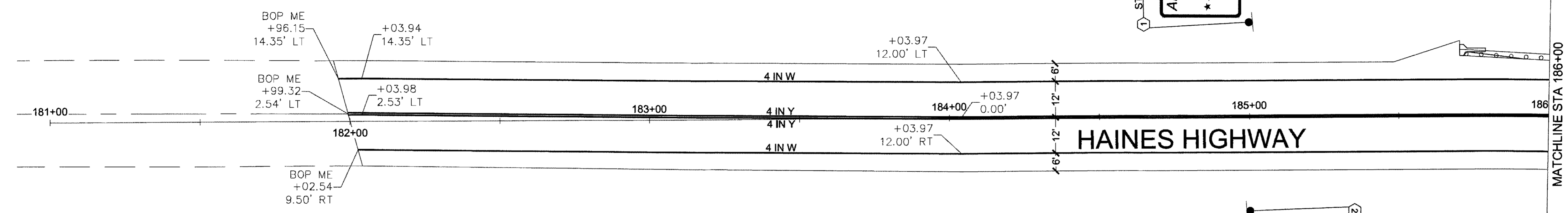


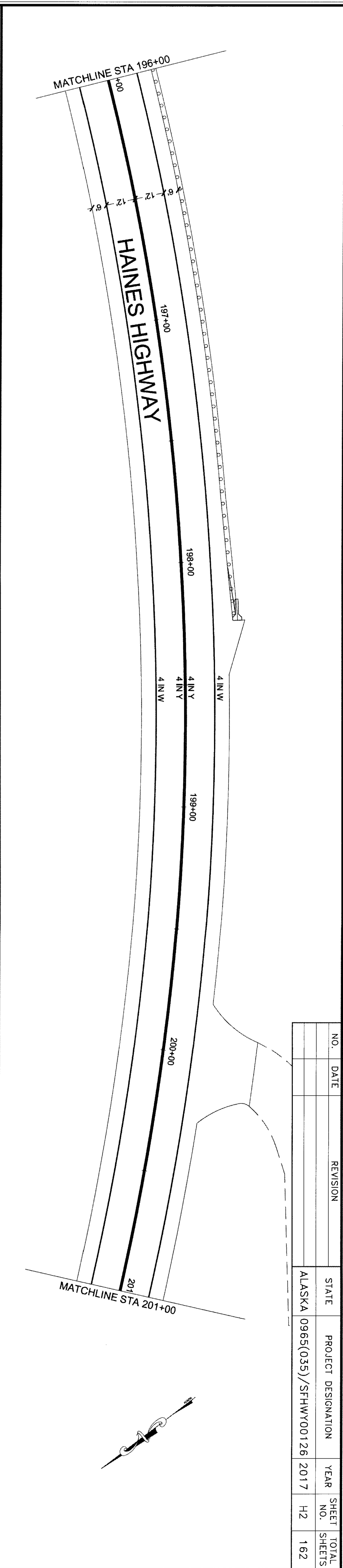
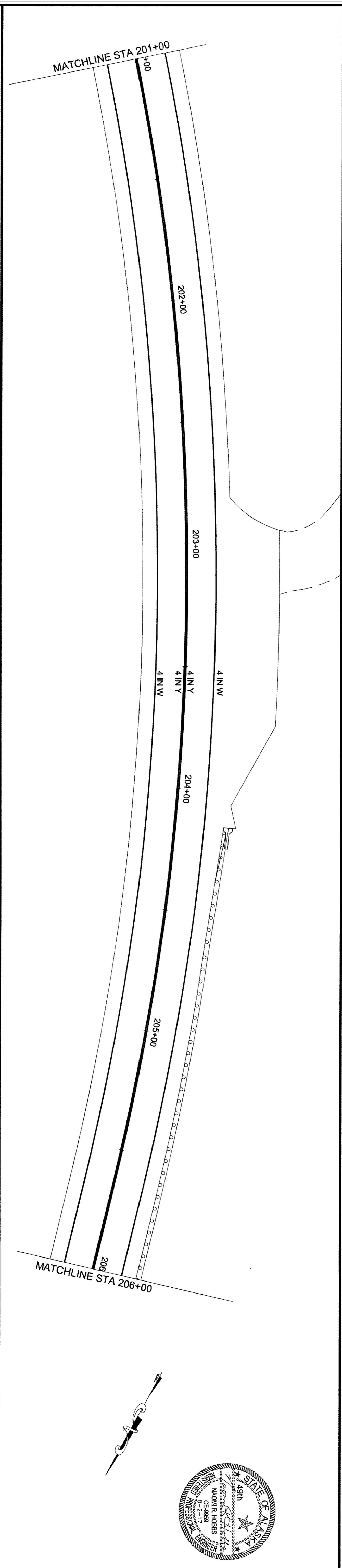
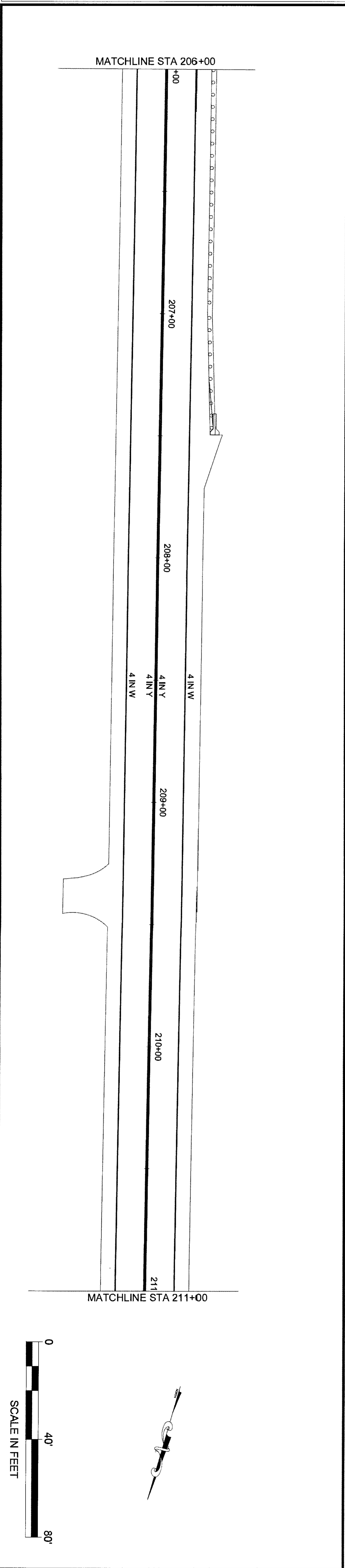
**WACKERMAN DRIVEWAY PROFILE**



FIRM: DOWL  
 FILE: O:\24\61850-01\65CAD\MP 3-12 PSE\H SHEETS\H1-H30\_160225.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 6/19/2017 12:09 LAYOUT: H1  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. TYLER  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECLB48

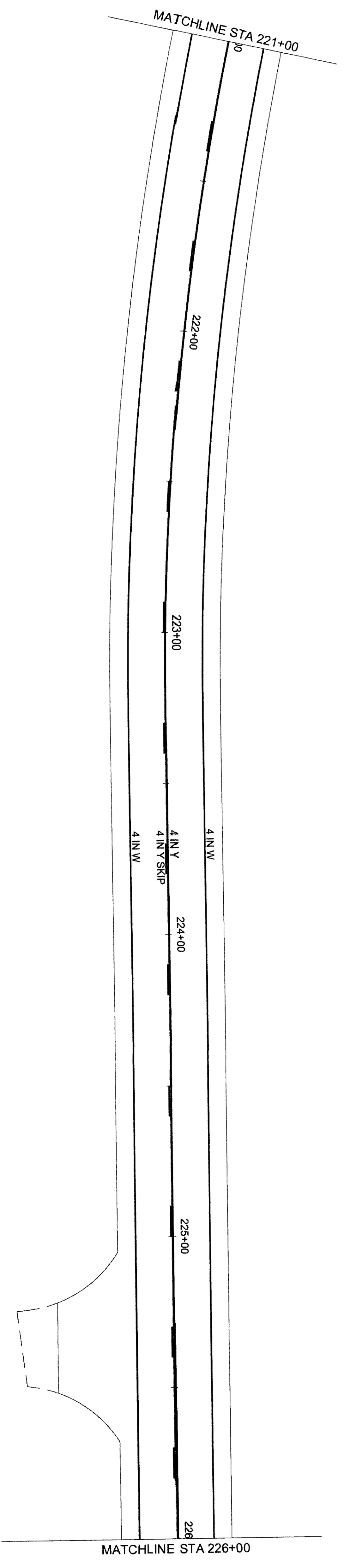
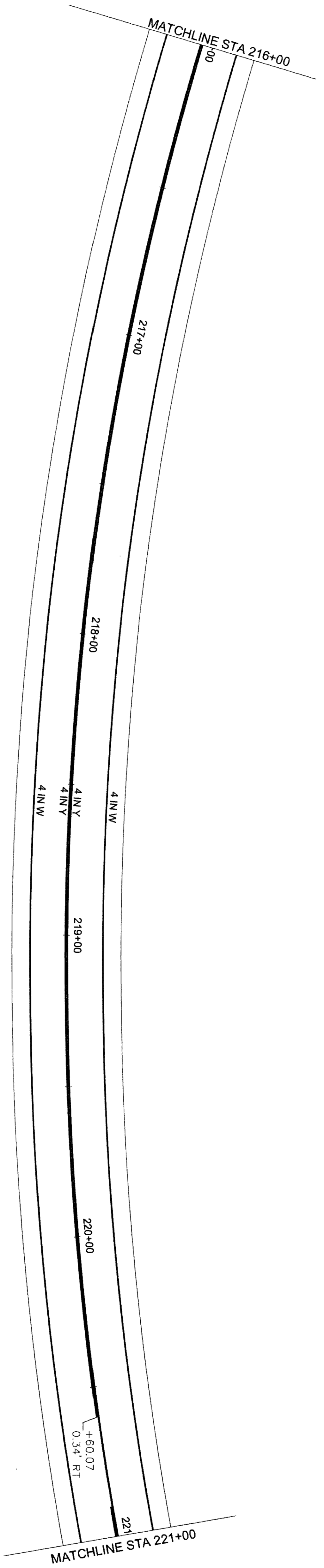
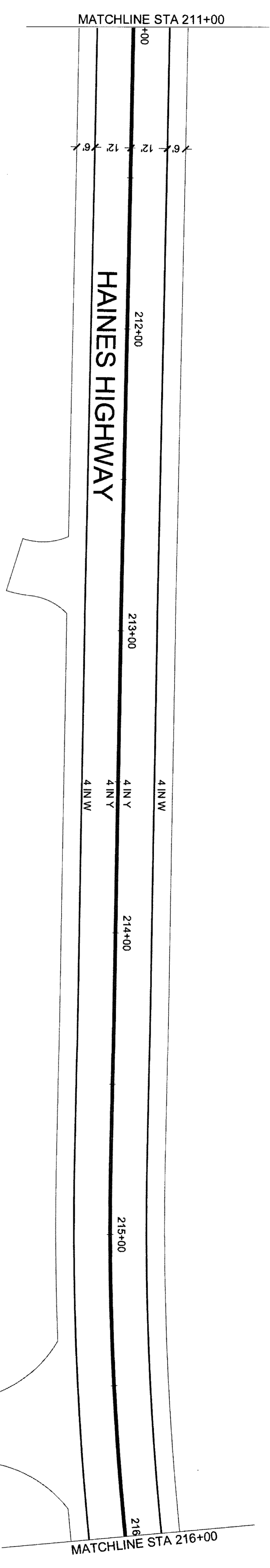
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H1	162



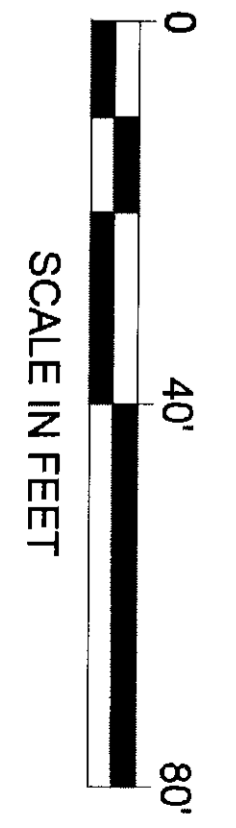
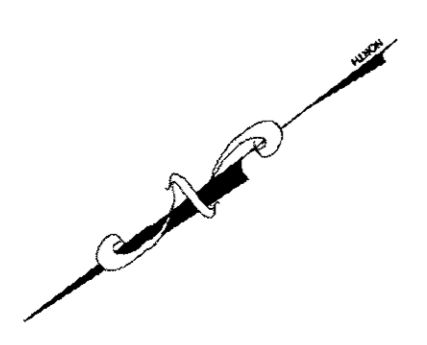
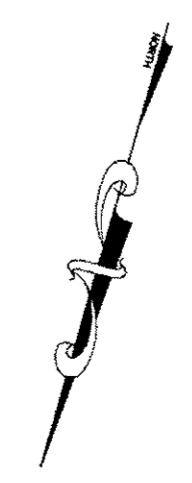
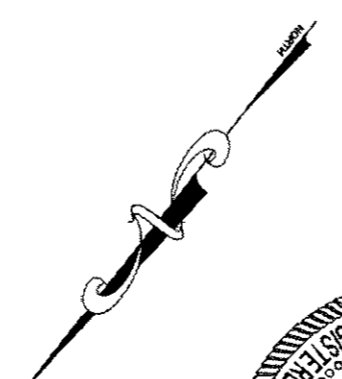


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHW00126	2017	H2	162

7/20 6-25-20

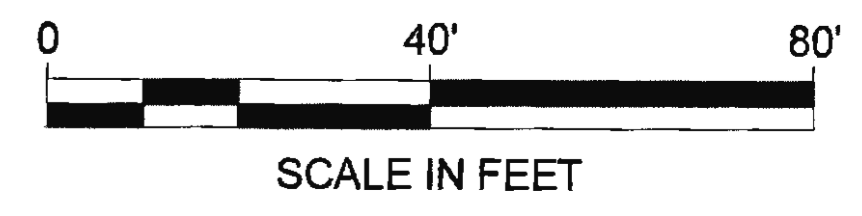
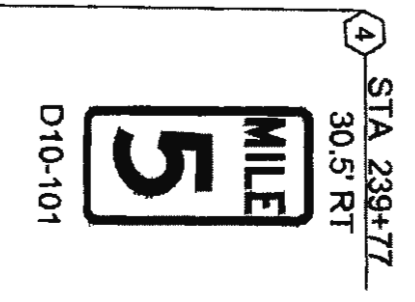
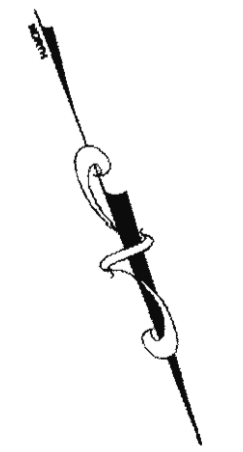
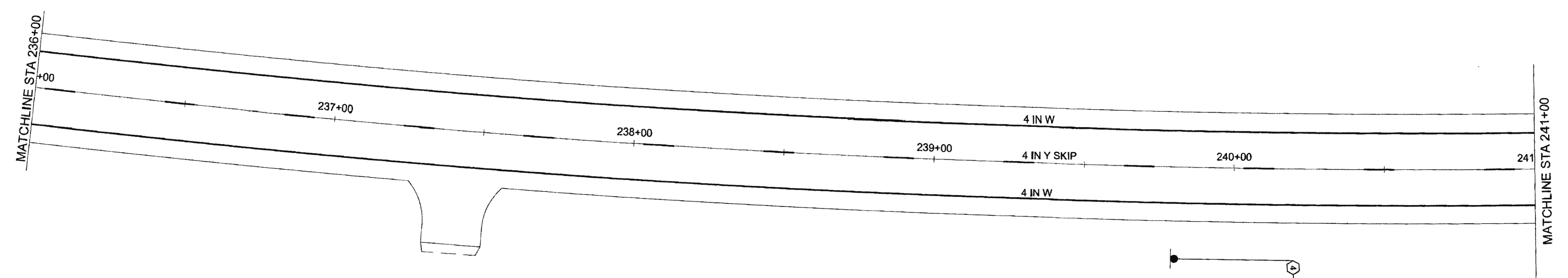
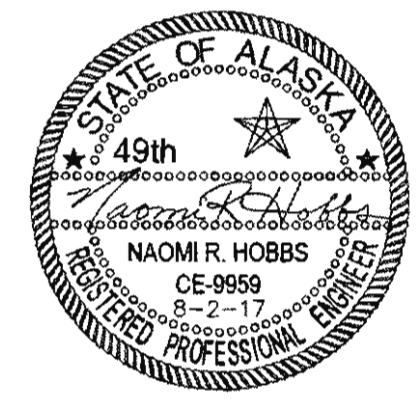
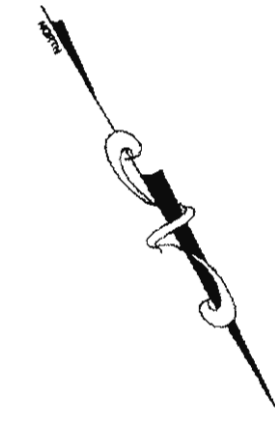
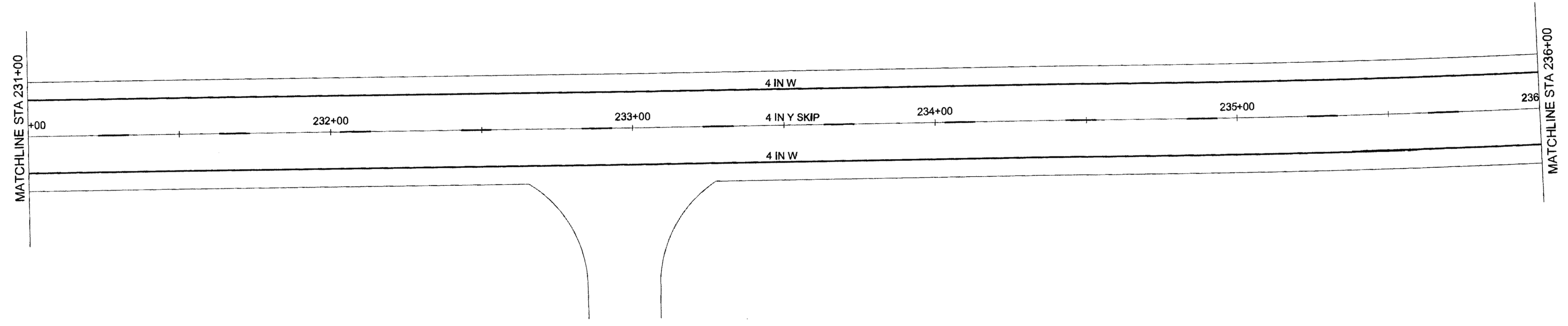
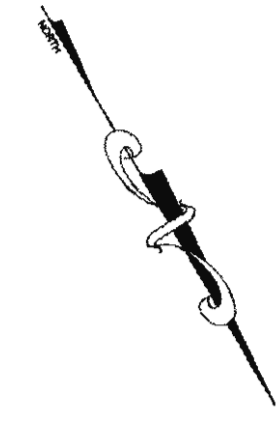
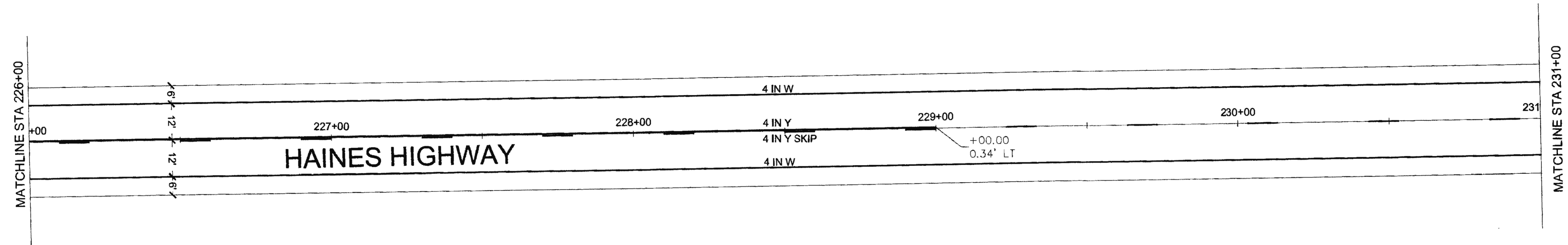


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H3	162



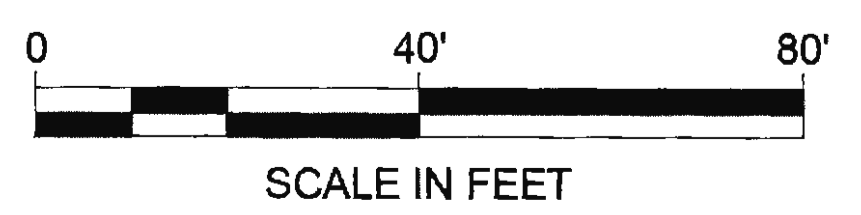
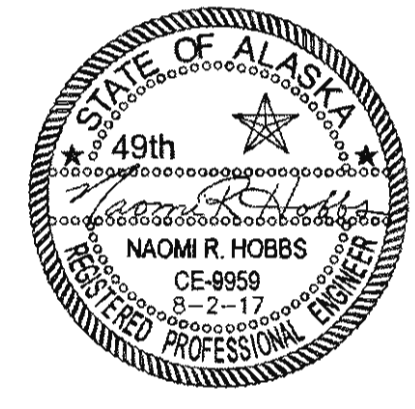
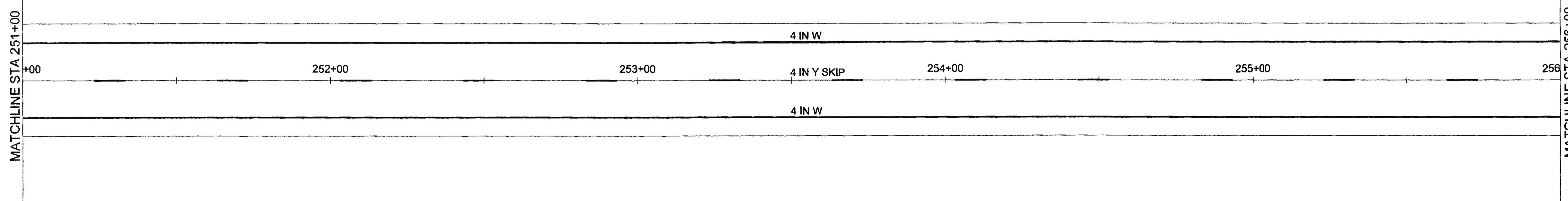
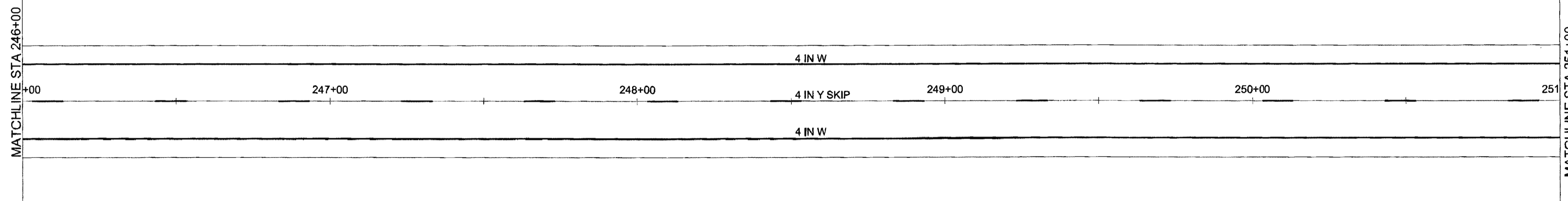
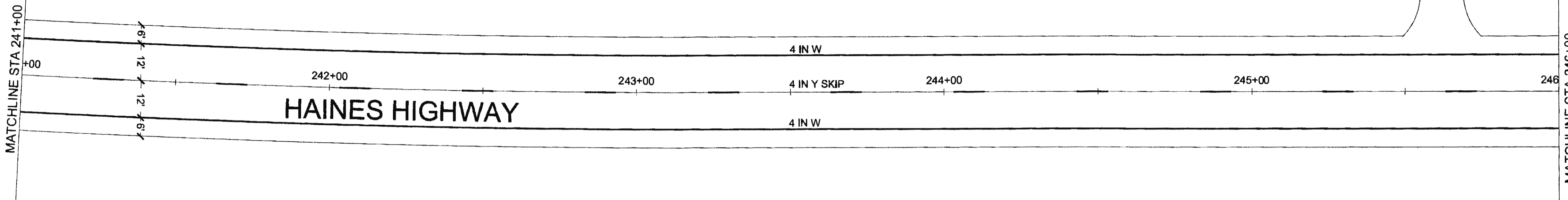
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 6/19/2017 12:09 LAYOUT: H4  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH. #: AEC1848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H4	162



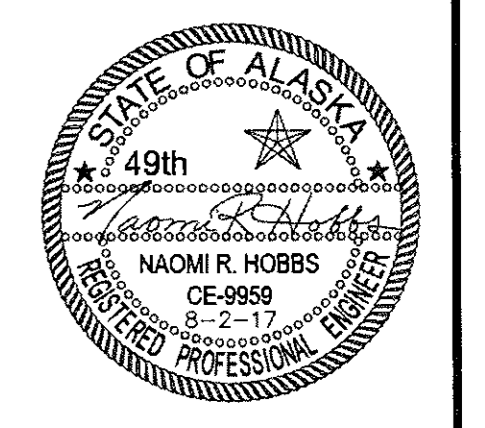
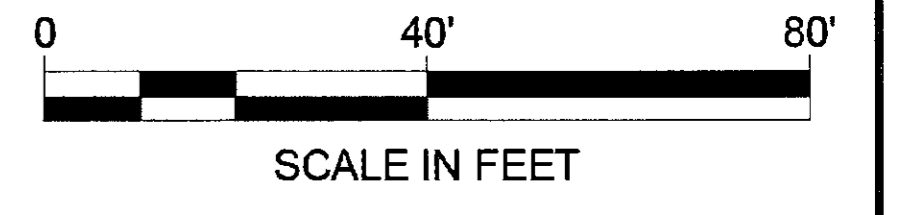
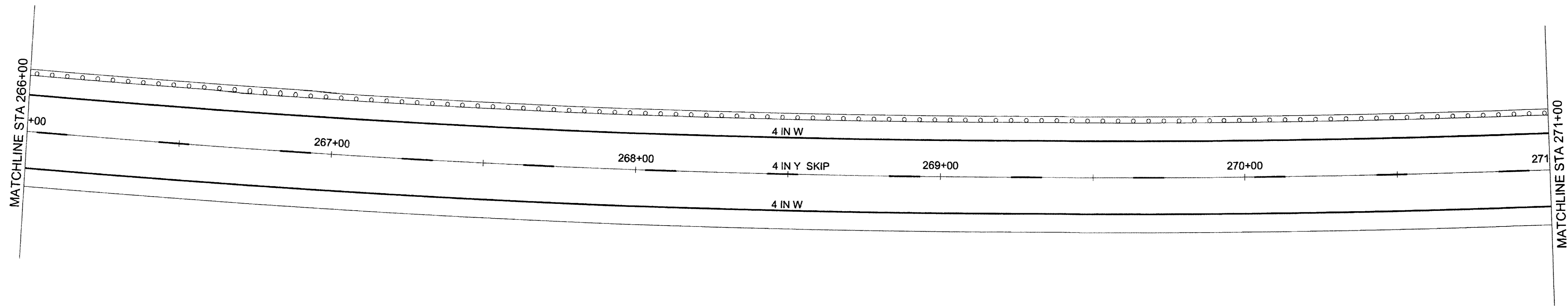
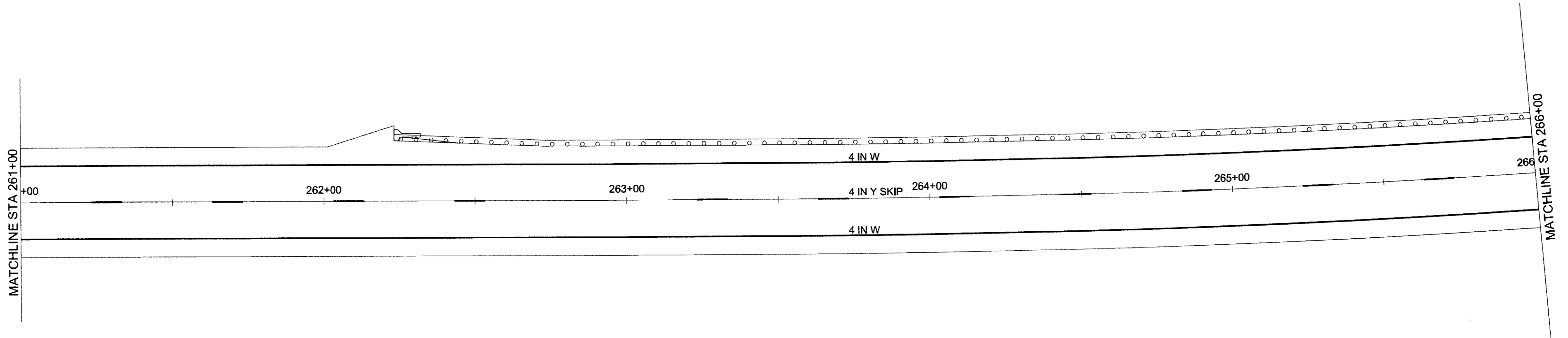
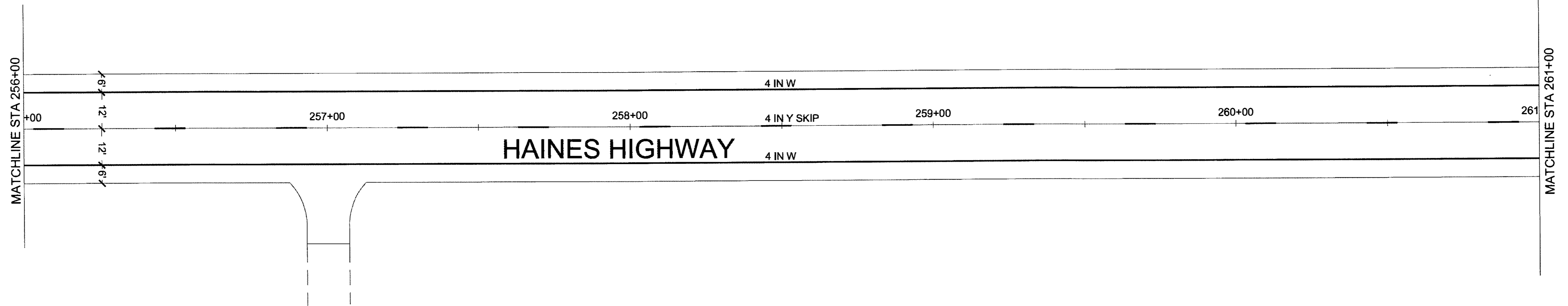
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 6/19/2017 12:09 LAYOUT: H5  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 CERTIFICATE OF AUTH. #: AECLB48  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H5	162



FIRM: DOWI  
 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH # : AECLR48  
 FILE: 0:\24\61850-01\65CA3\WP\_3-12\_PSE\H SHEETS\H1-H30\_160225.dwg  
 DATE: 6/19/2017 12:09  
 LAYOUT: H6  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

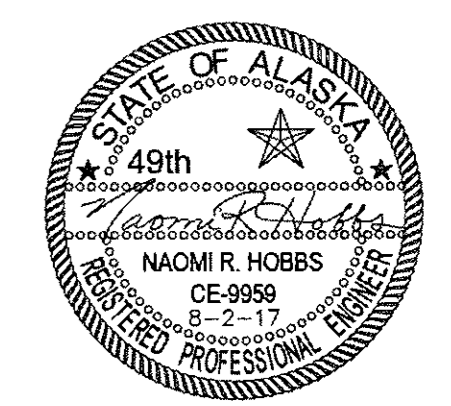
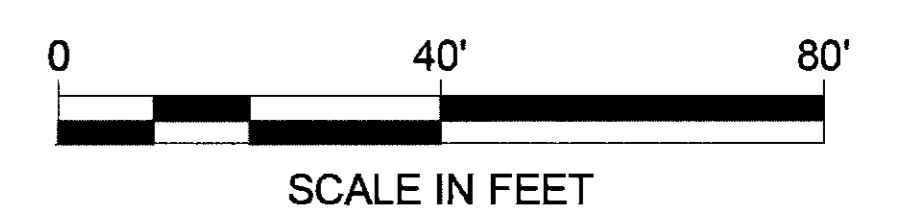
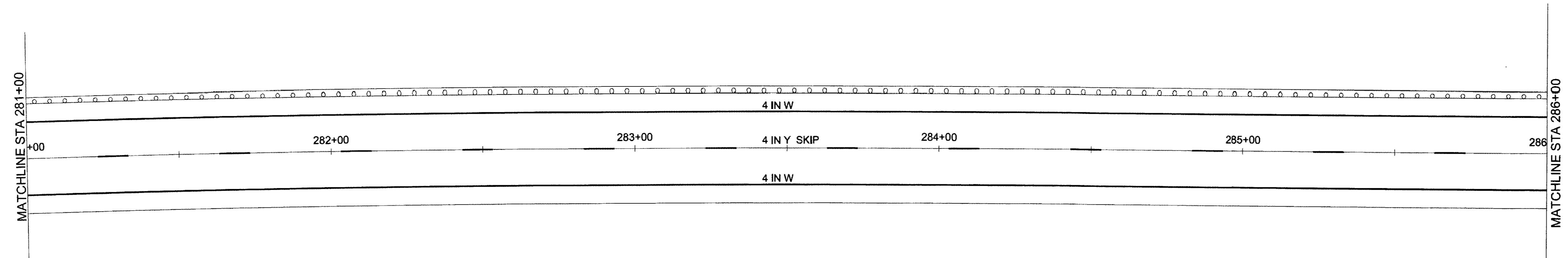
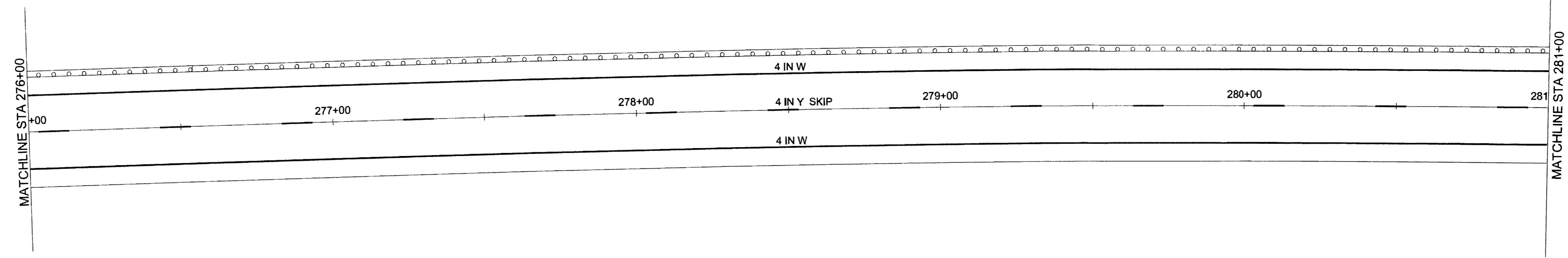
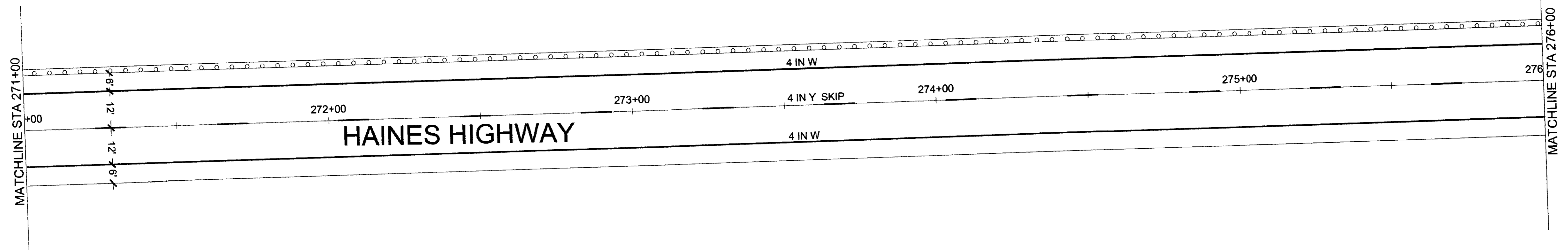
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H6	162





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 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE: 6/19/2017 12:09 LAYOUT: H7  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECLB48

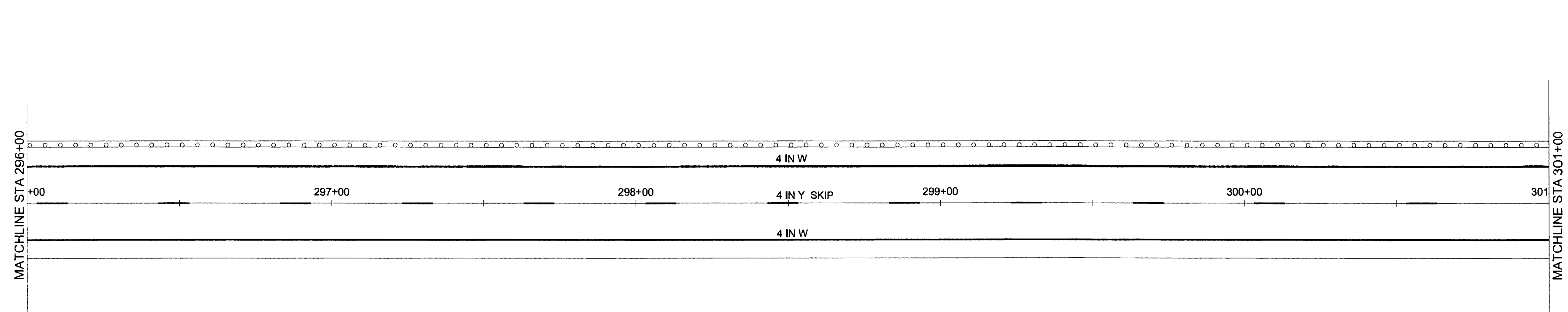
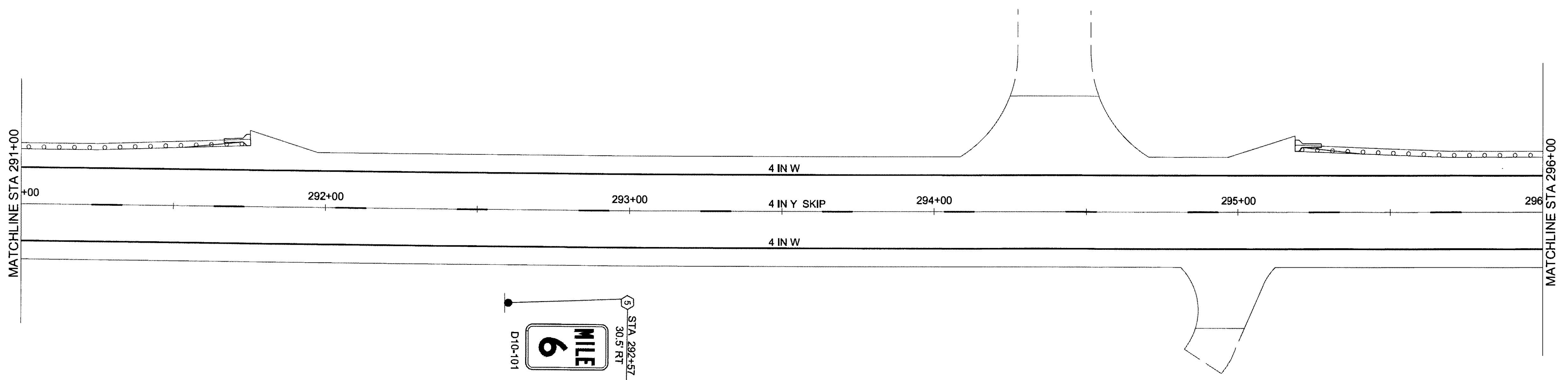
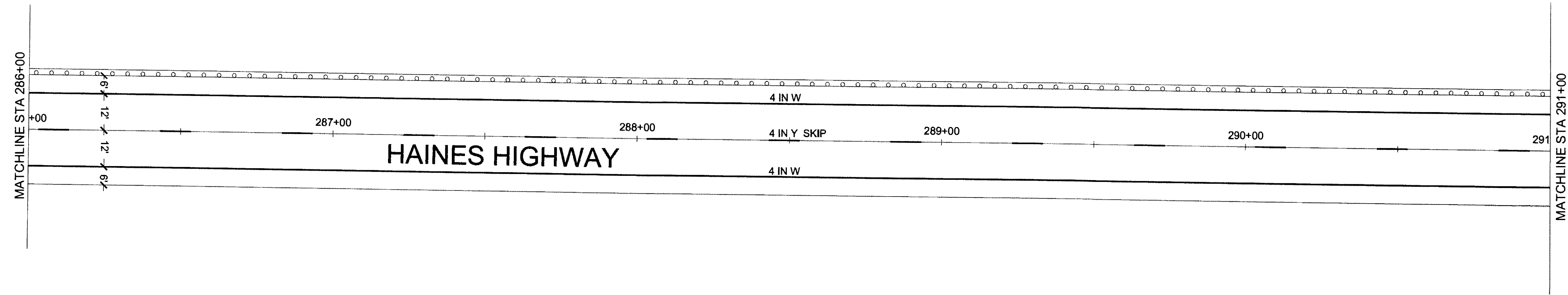
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H7	162



TW 6-26-20

FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH # : AECL848  
 FILE: Q:\24\61850-01\65CAD\MP\_3-12\_PSE\H\_SHEETS\H1-H30\_160225.dwg  
 DATE: 6/19/2017 12:09  
 LAYOUT: H8  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

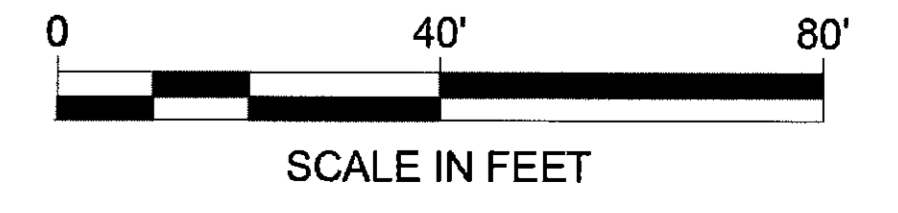
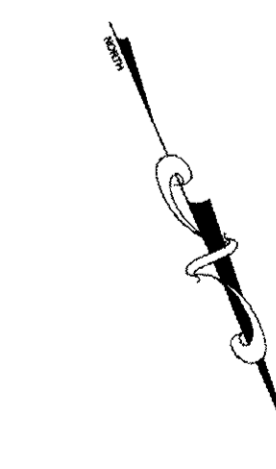
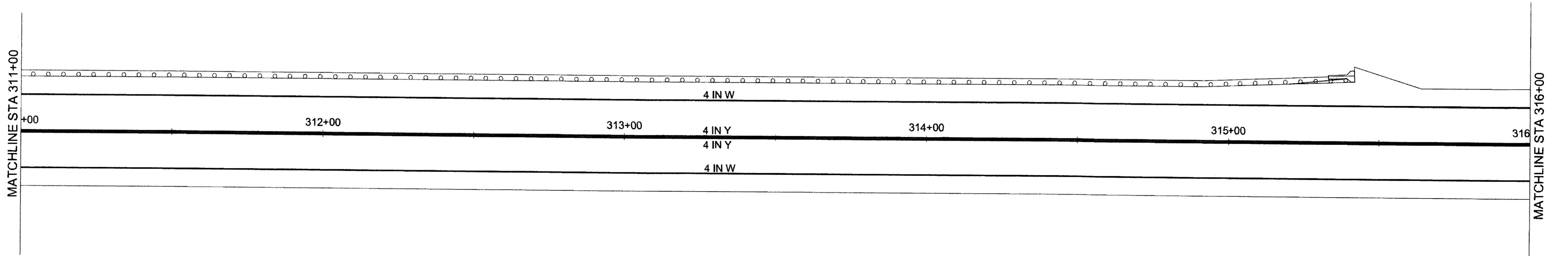
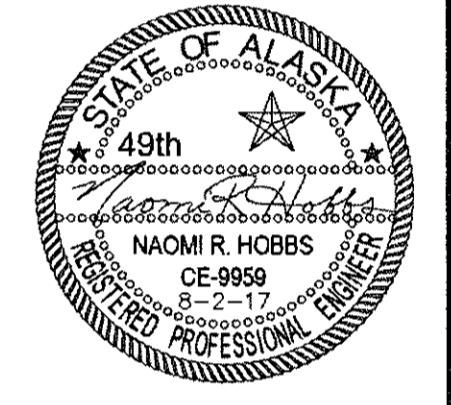
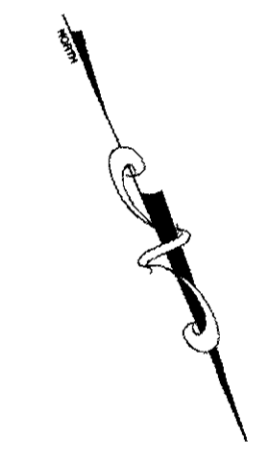
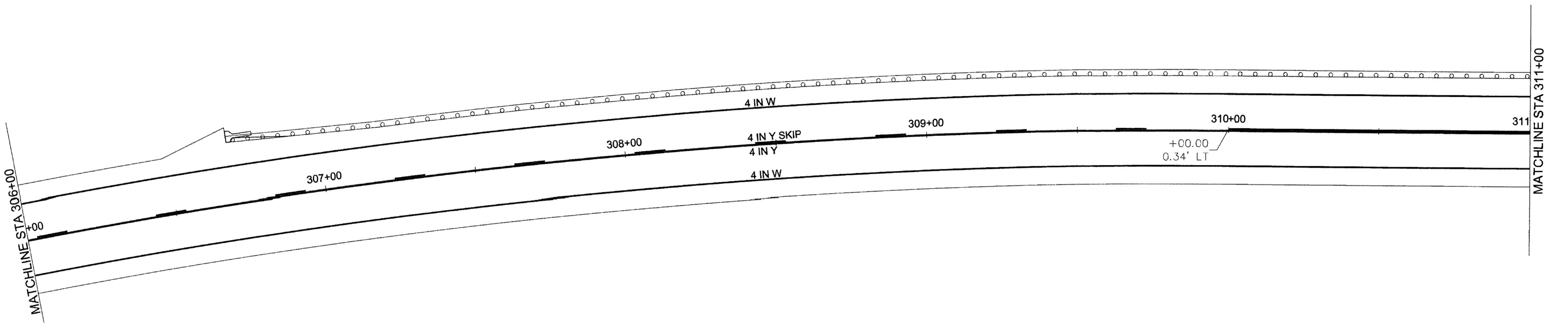
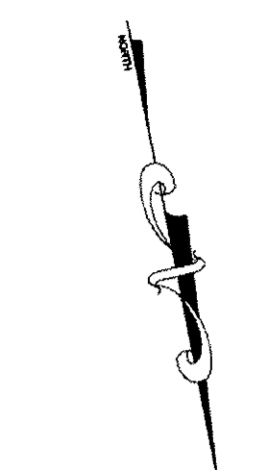
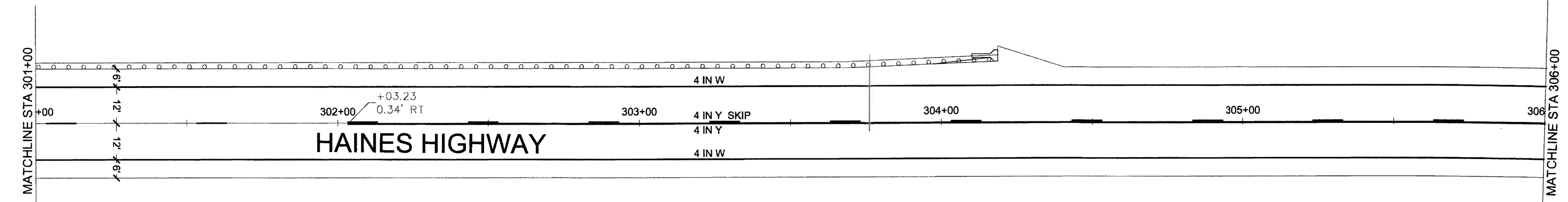
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H8	162

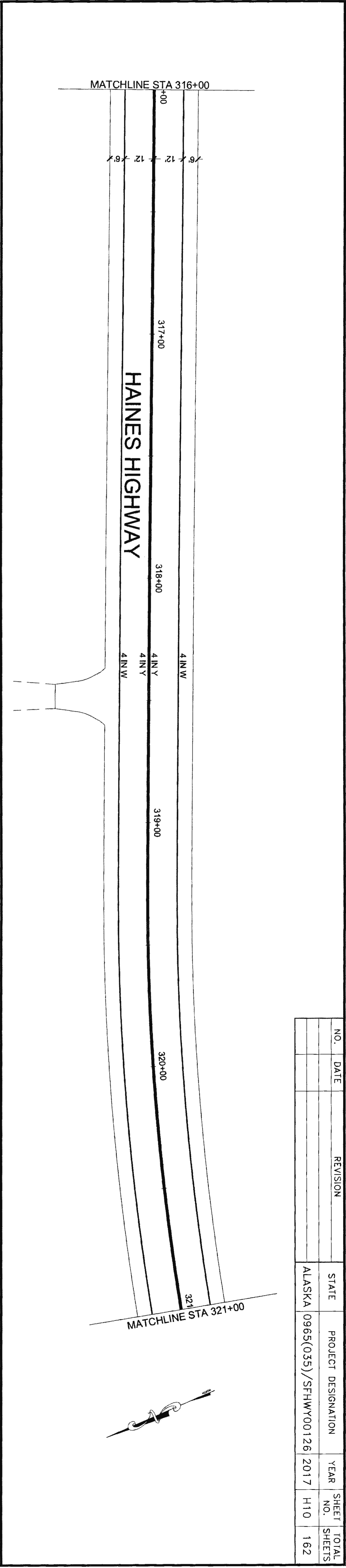
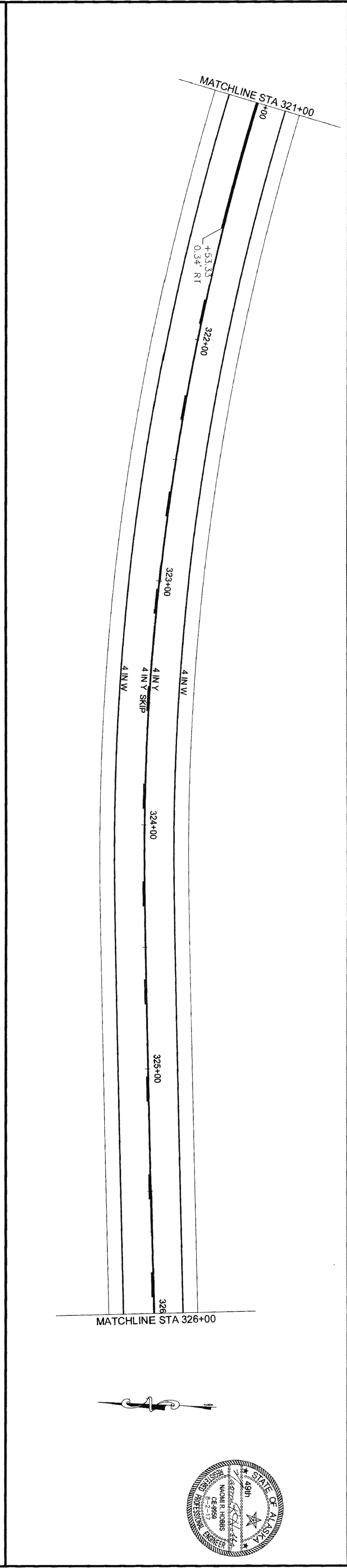
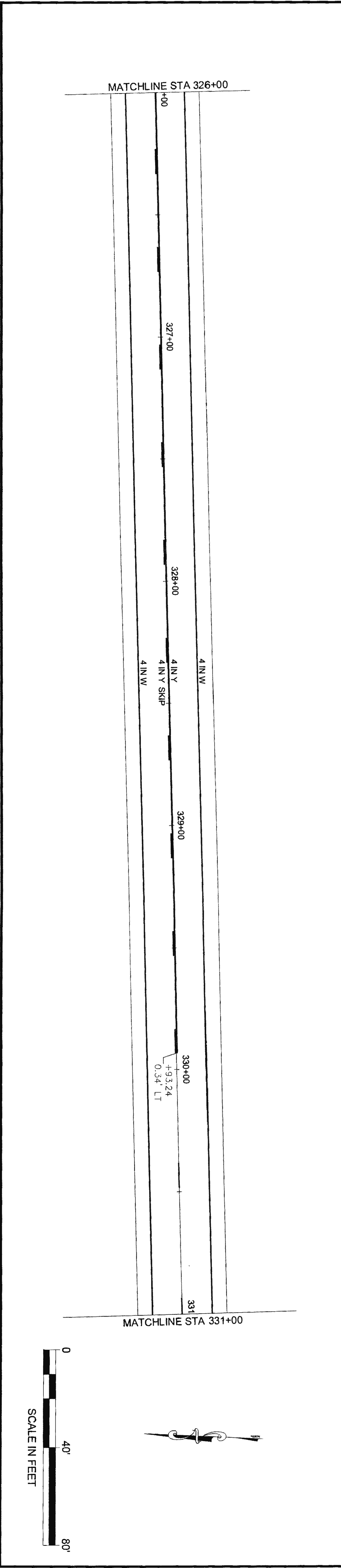


NORTH ARROW  
  
 NORTH ARROW  
  
 SCALE IN FEET

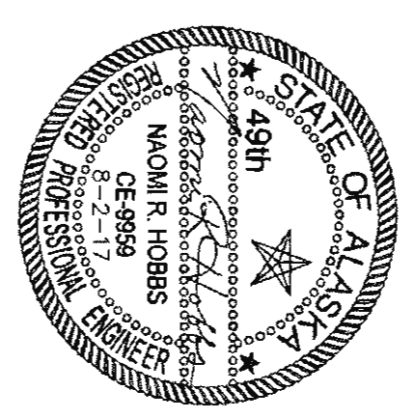
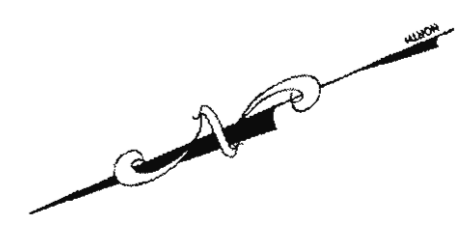
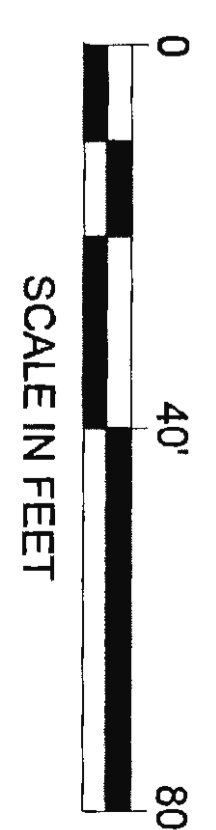
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H9	162

FIRM DOWL  
 FILE C:\24\1850-01\65CAD\MP 3-12 PSE\11 SHEETS\11-H30\_160225.dwg  
 ADDRESS 5368 COMMERCIAL BLVD. JUNEAU, AK 99801  
 DATE 6/19/2017 12:09 LAYOUT H9  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AEC-L848



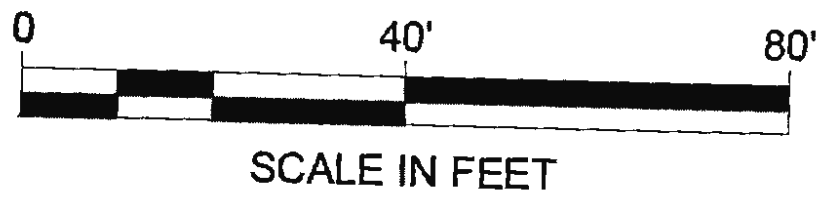
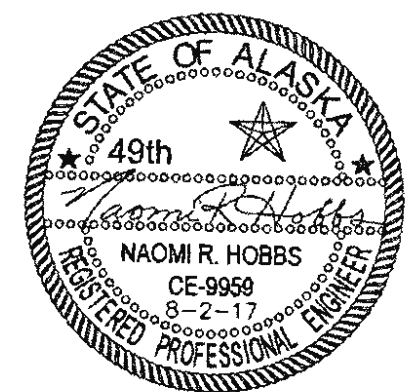
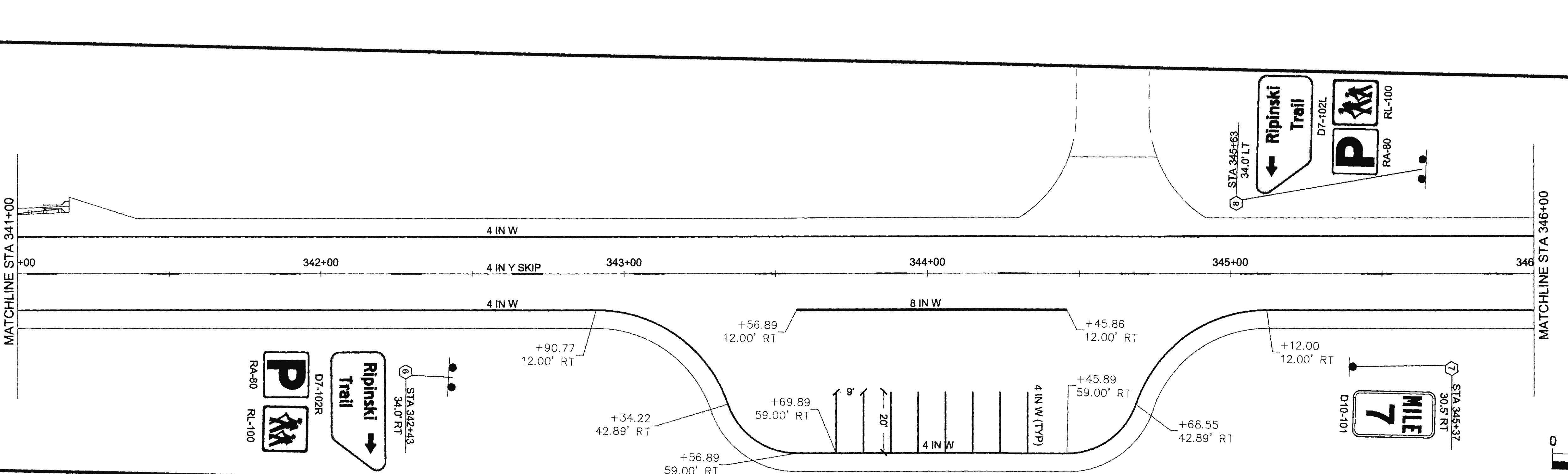
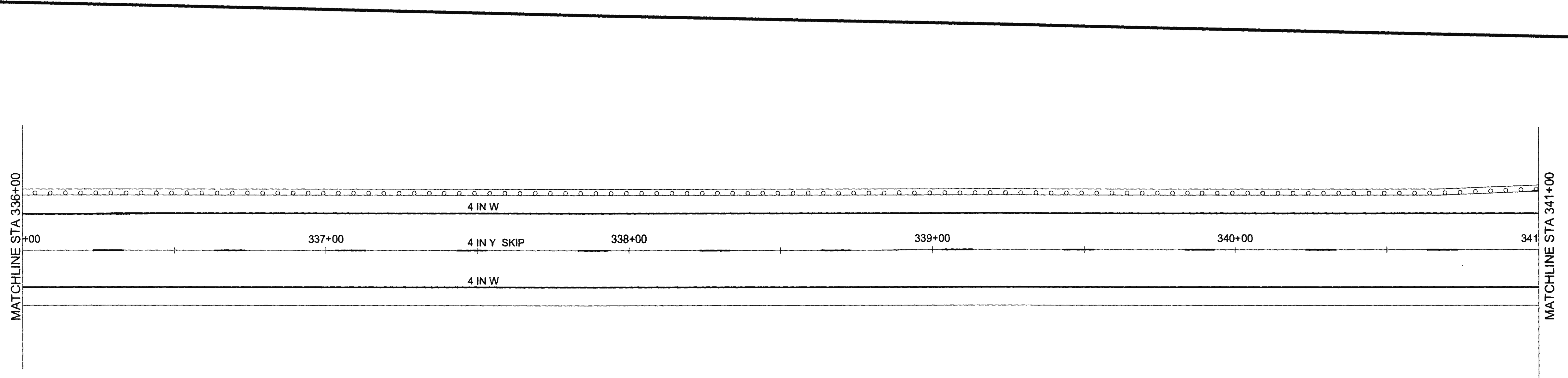
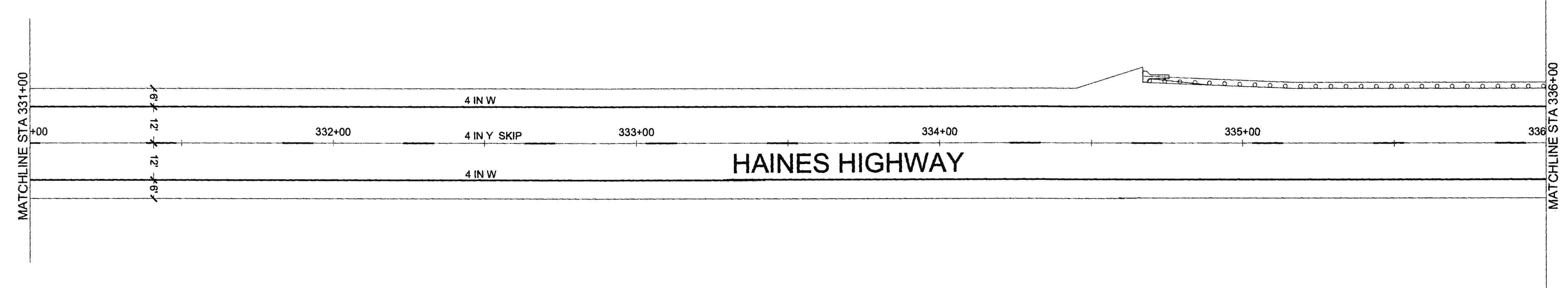


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H10	162



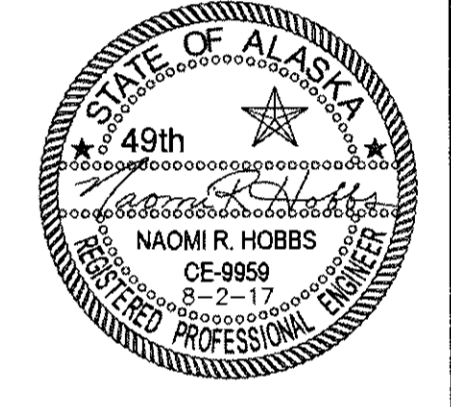
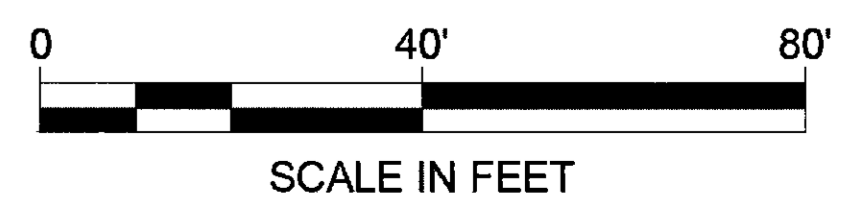
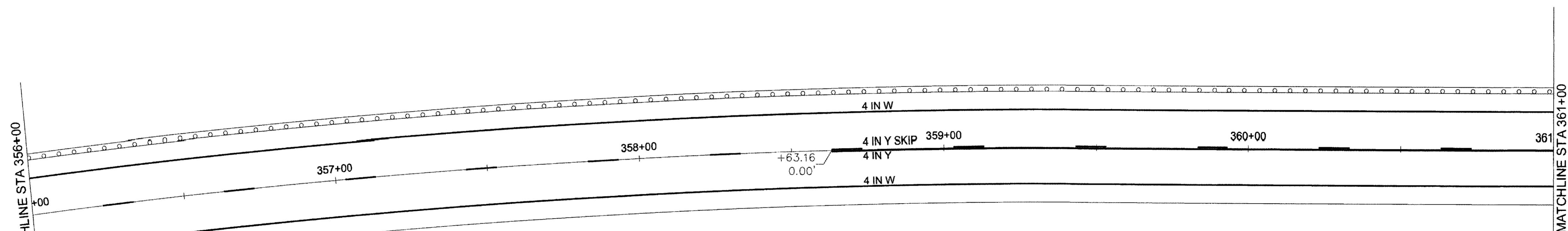
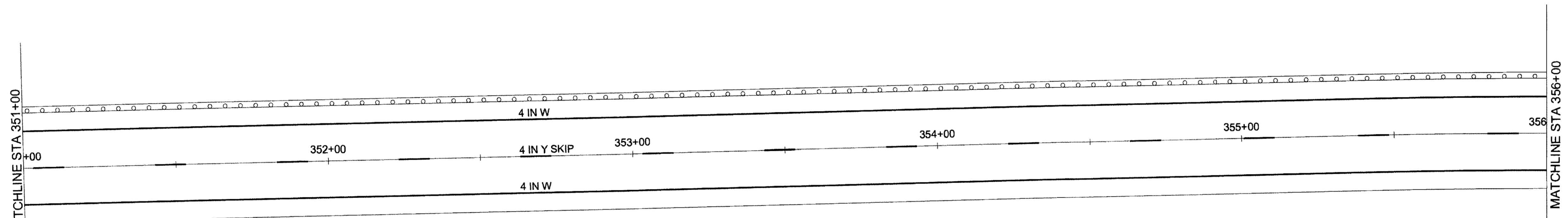
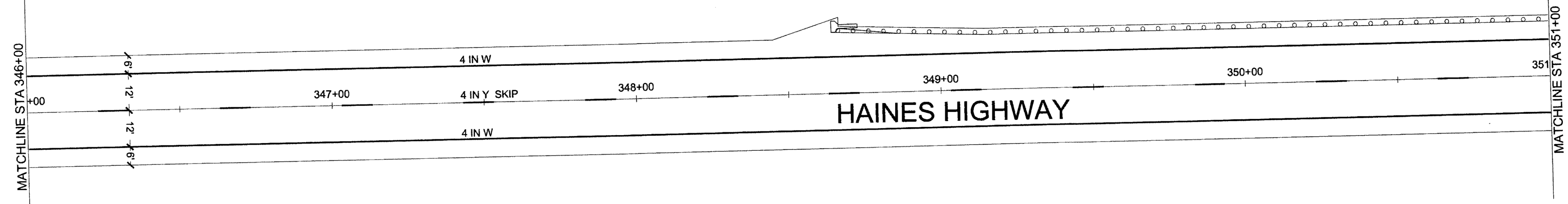
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H11	162

FIRM: DOWI  
 ADDRESS: 5366 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 6/19/2017 12:09  
 LAYOUT: HTI  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1 AECI 848  
 FILE: G:\24\1850-01\65CA0\WP\_3-12\_PSE\H1 SHEETS\H1-H30\_160225.dwg



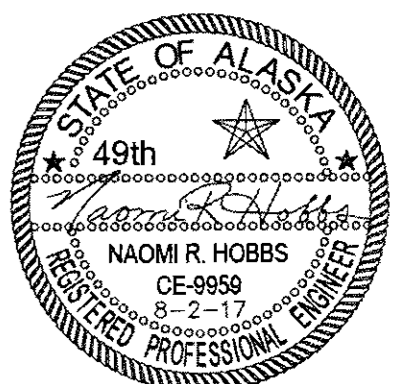
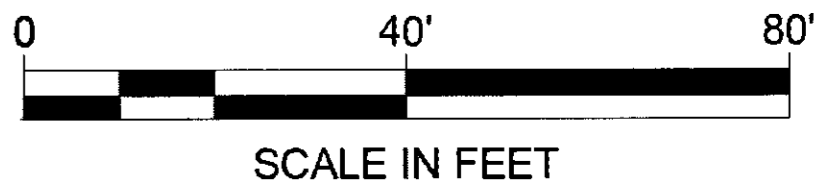
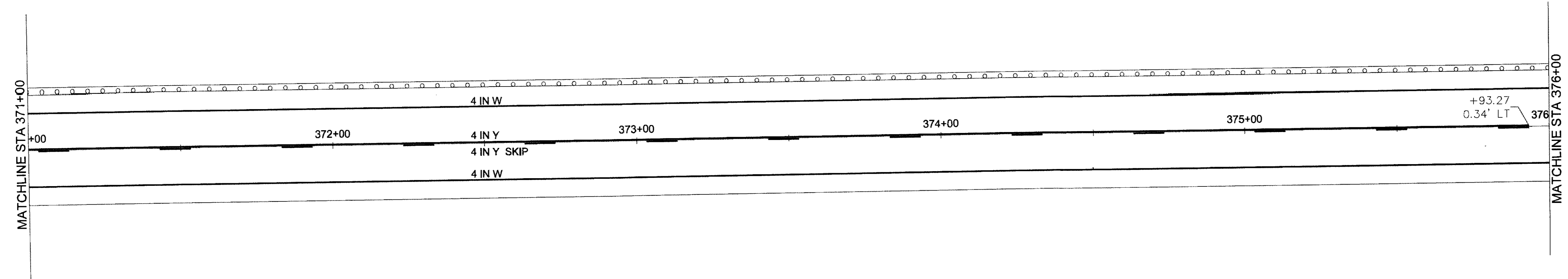
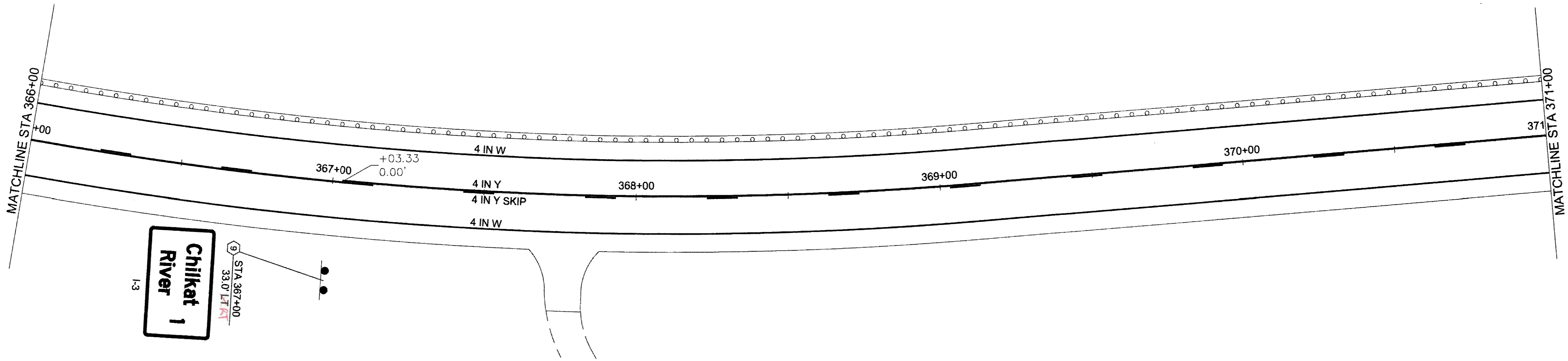
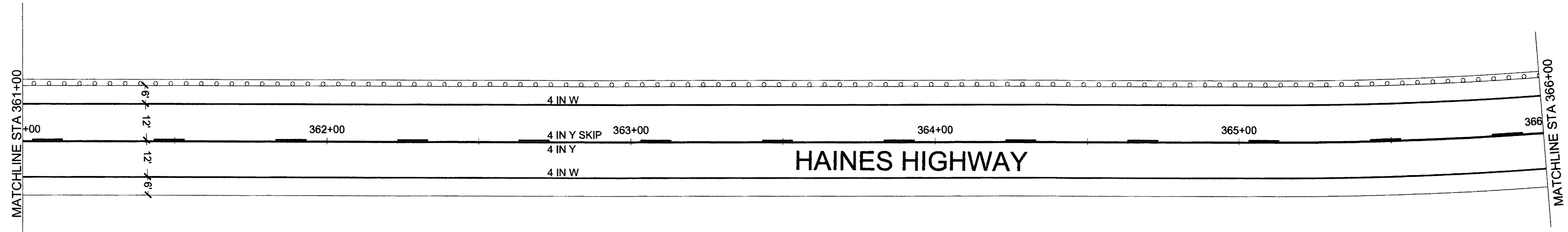
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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE 6/19/2017 12:09 LAYOUT H12  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H12	162



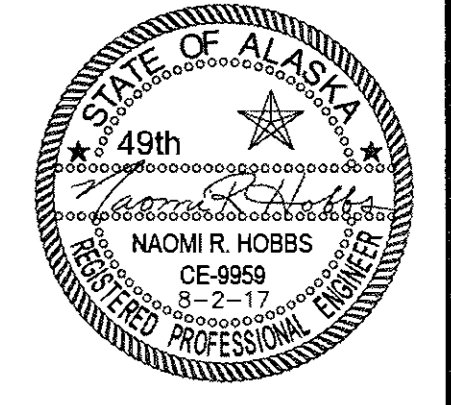
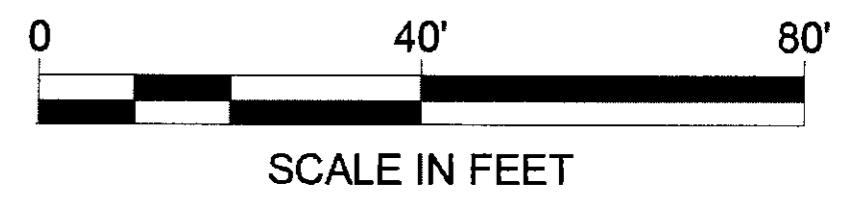
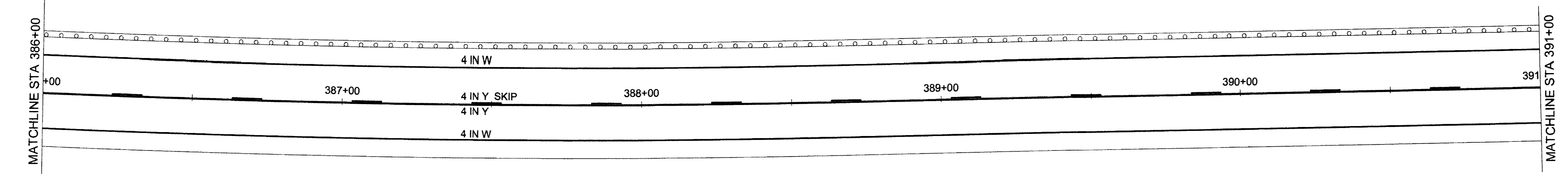
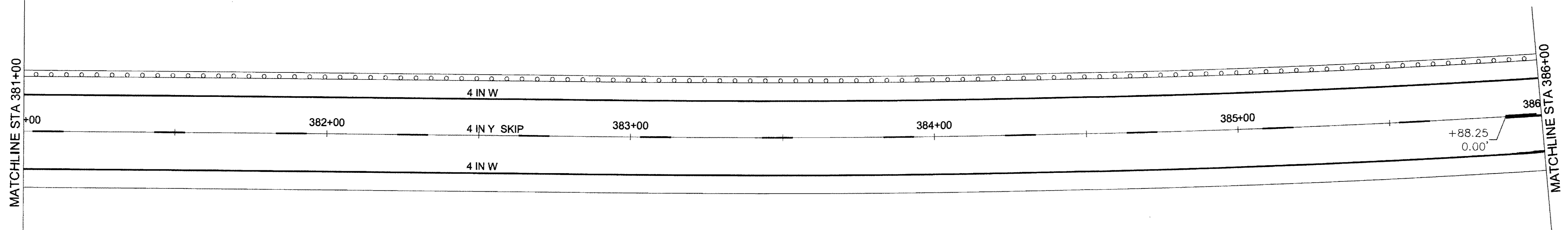
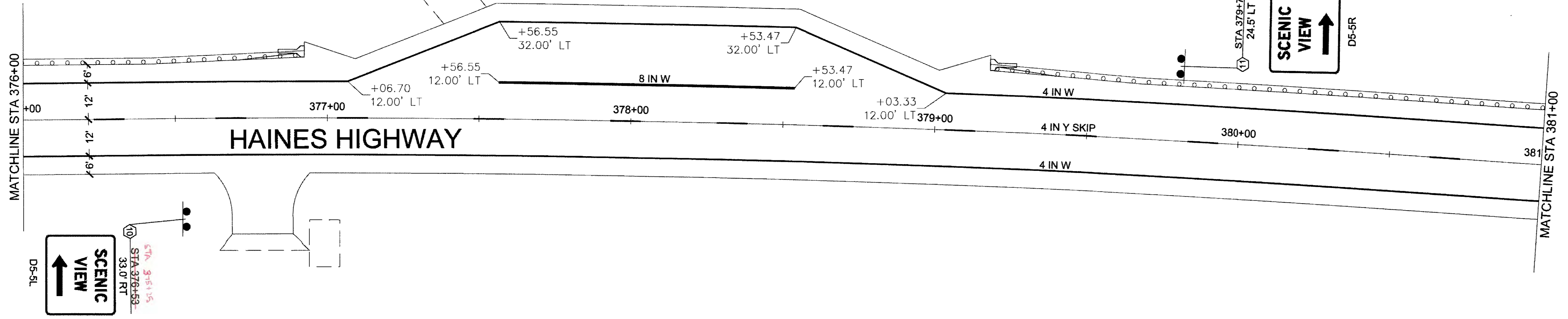
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			ALASKA	0965(035)/SFHWY00126	2017	H13	162

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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECLB48  
 DATE 6/19/2017 12:09  
 LAYOUT H13



FIRM: DOWL  
 FILE: C:\24\1850-01\65CAD\MP\_3-12\_PSE\H\_SHEET\H1-H30\_160225.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 6/19/2017 12:09 LAYOUT: H14  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #: AECL848

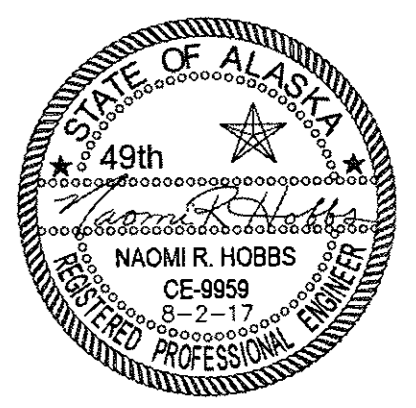
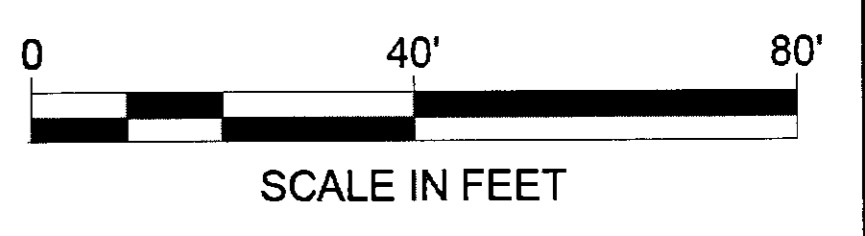
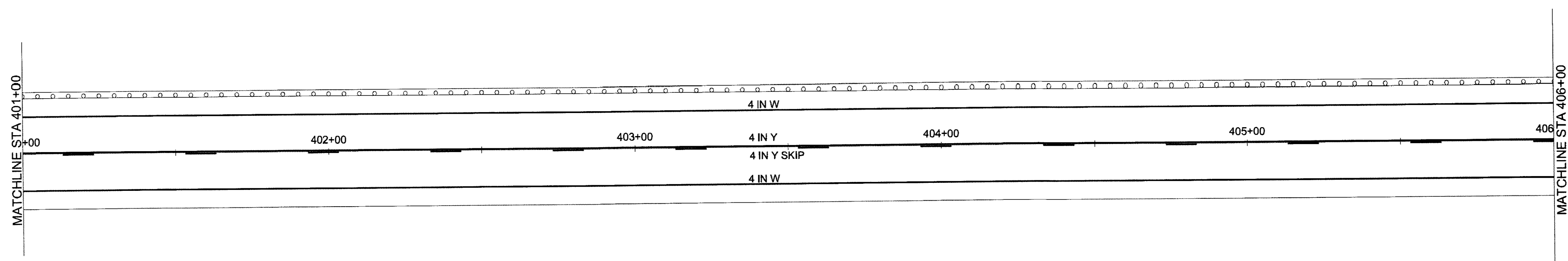
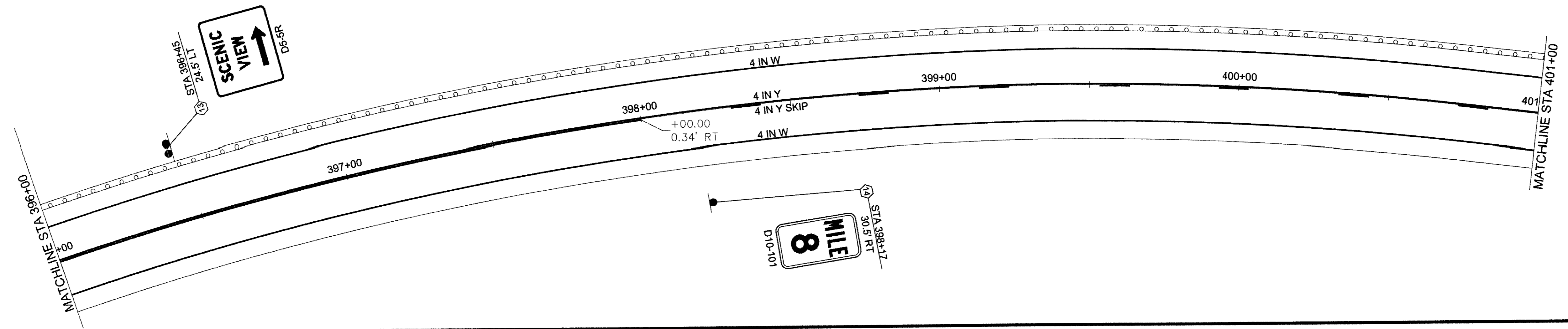
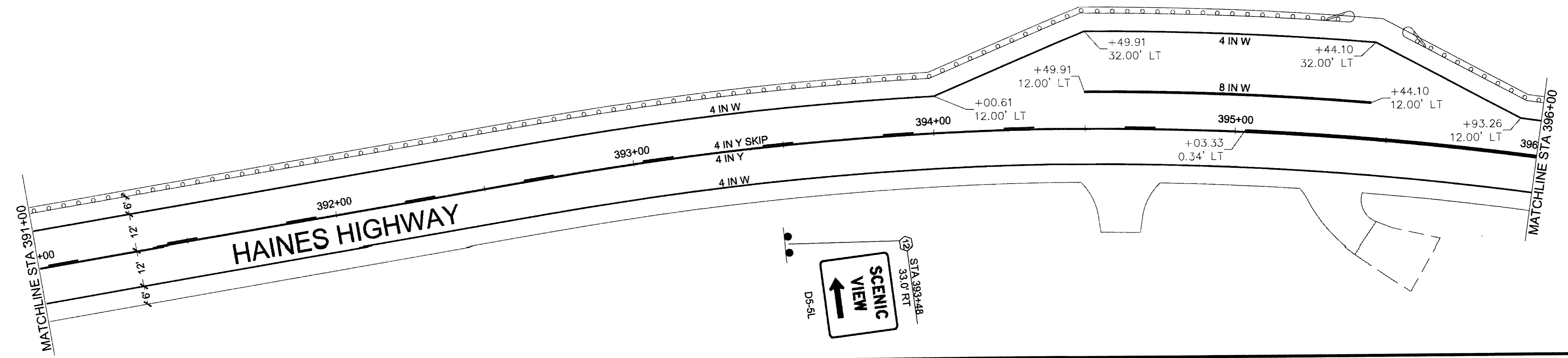
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H14	162





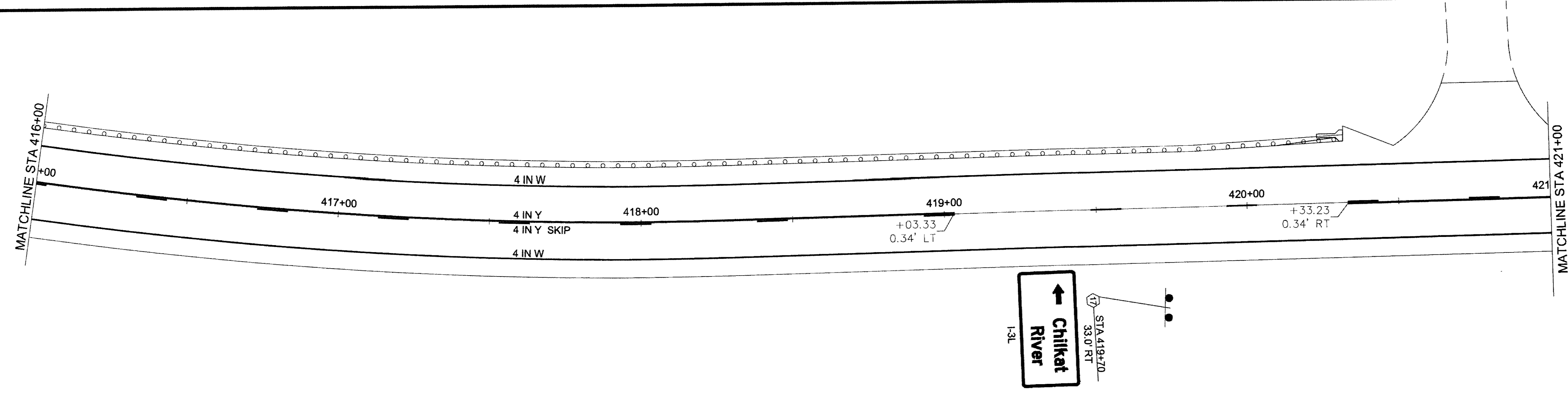
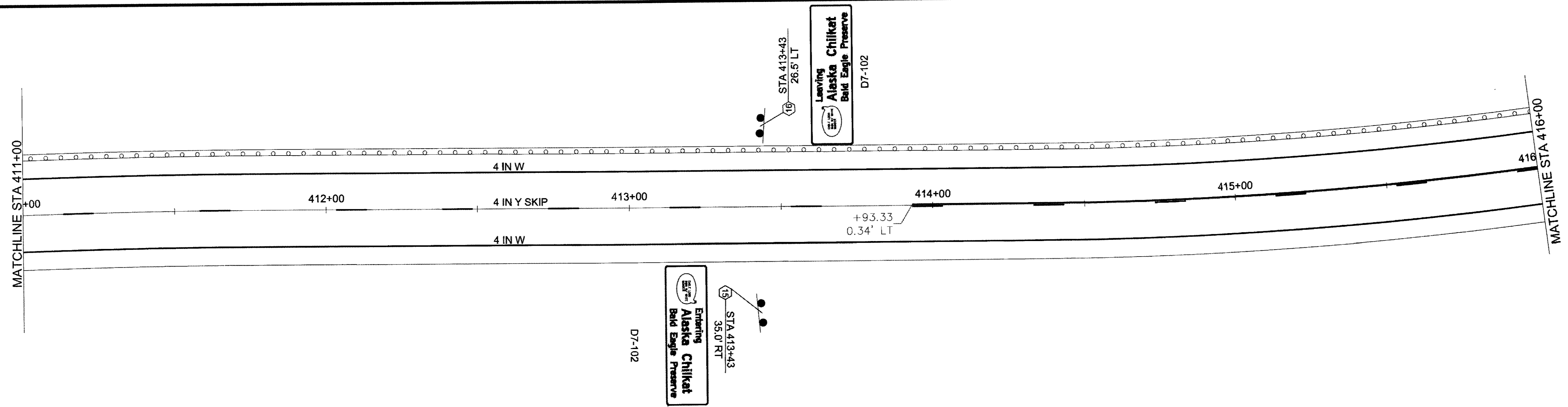
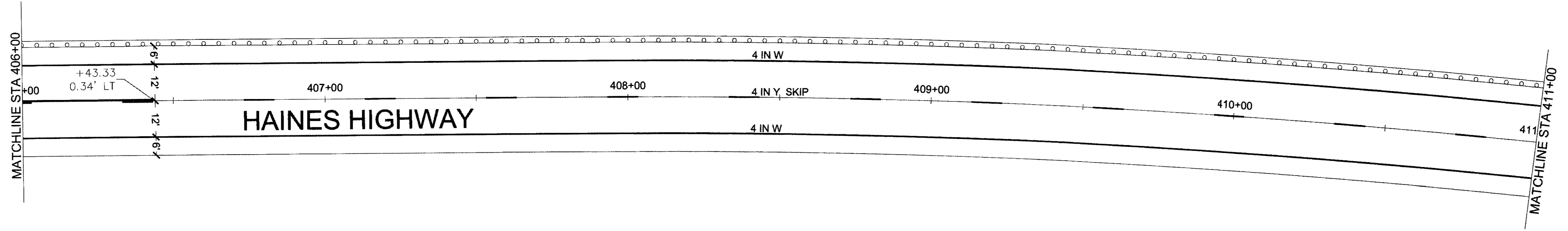
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H15	162

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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 6/19/2017 12:09  
 LAYOUT: H15  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH # : AECL848



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H16	162

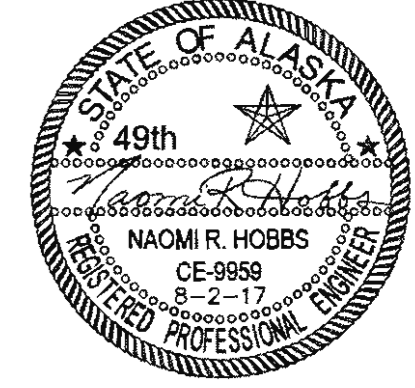
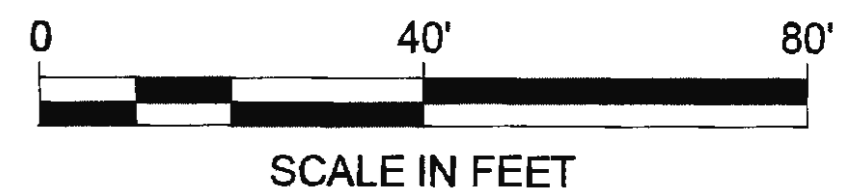
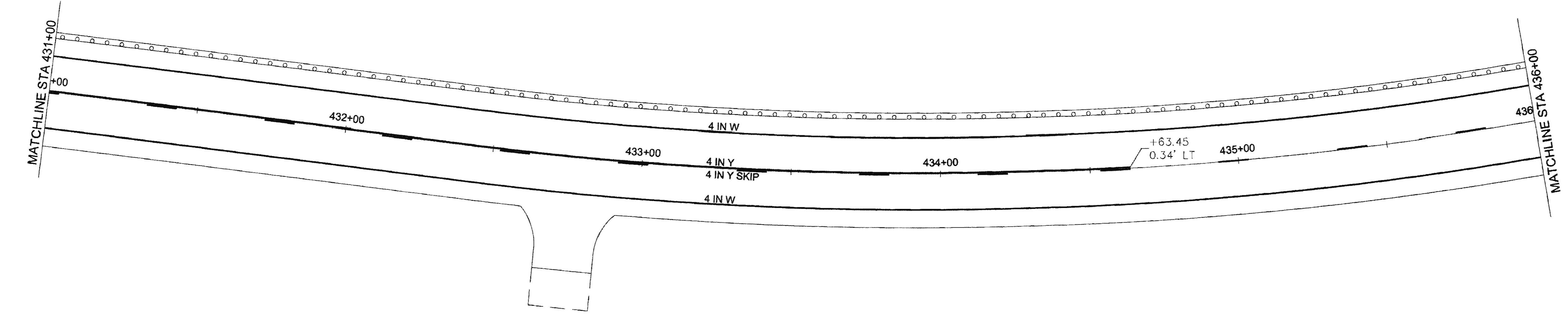
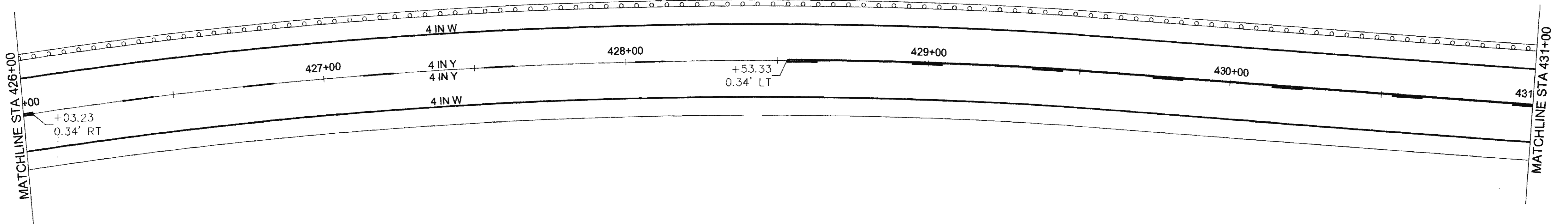
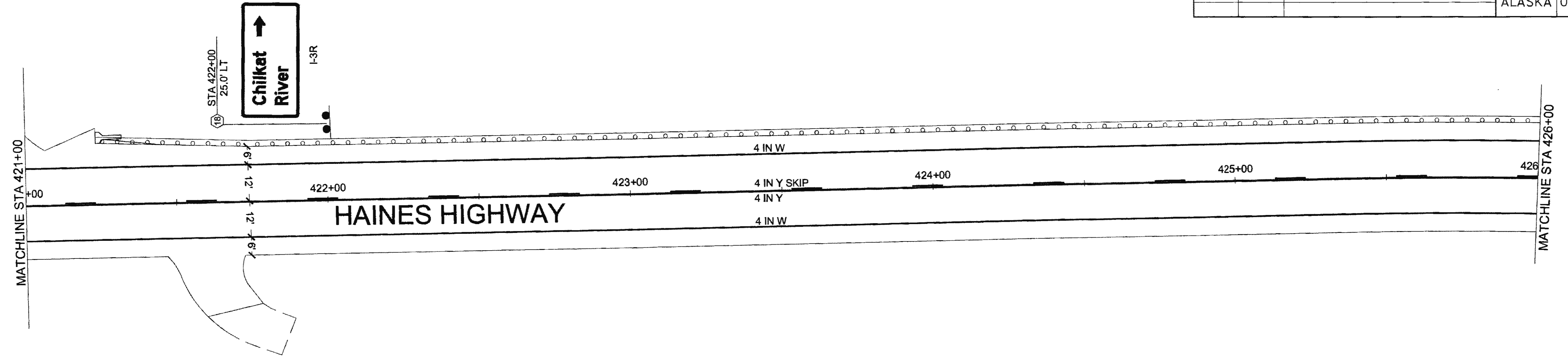
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 ADDRESS: 536B COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #: AECL848  
 DATE: 6/19/2017 12:09 LAYOUT: H16



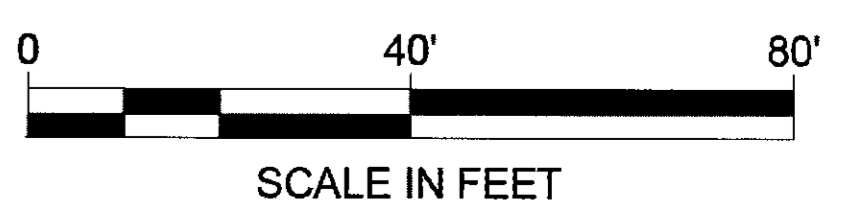
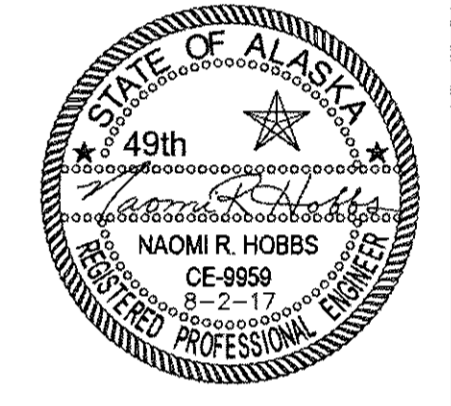
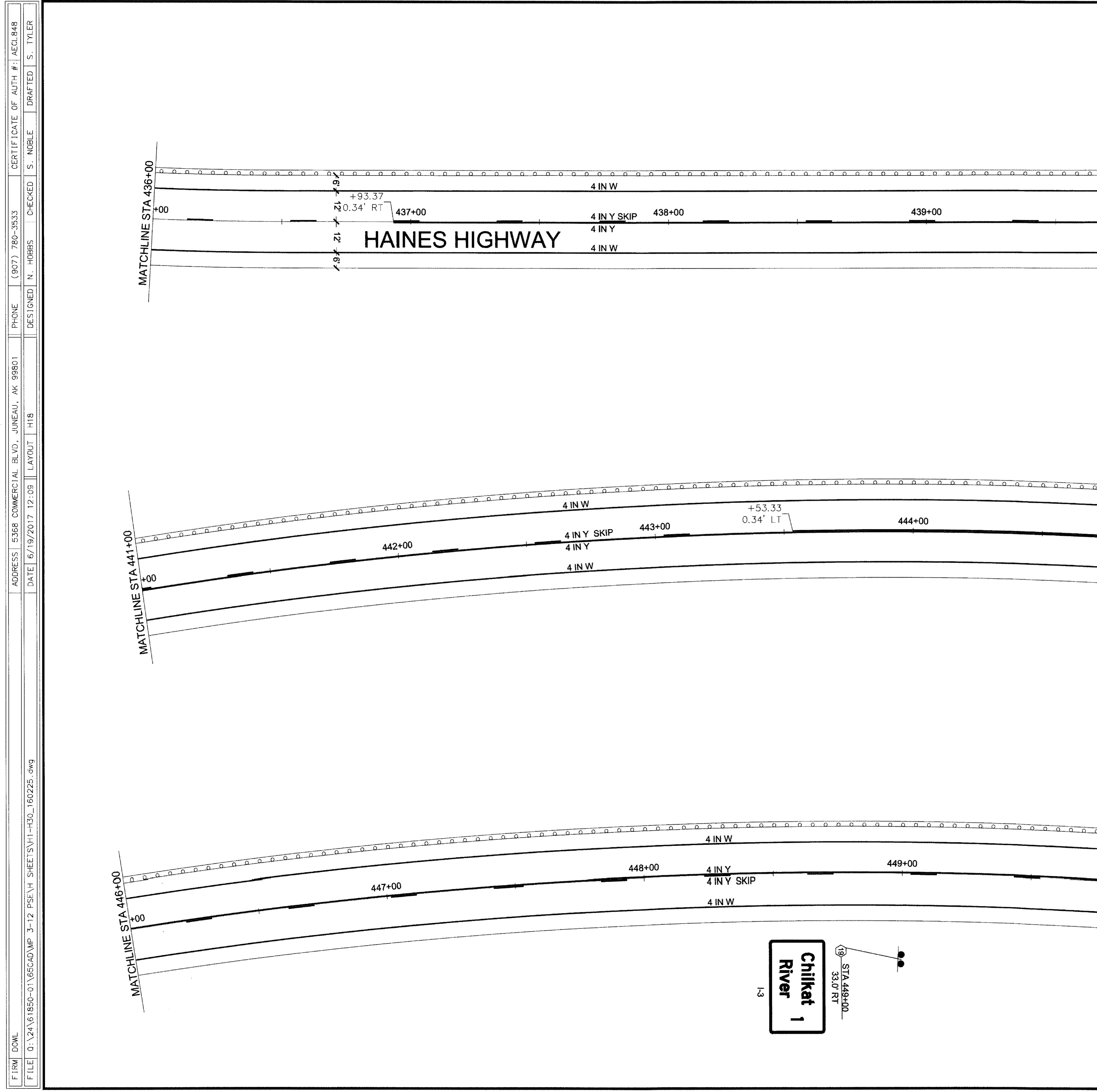
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 ADDRESS: 5366 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 6/19/2017 12:09 | LAYOUT | H17  
 CERTIFICATE OF AUTH # : AECLB48  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H17	162



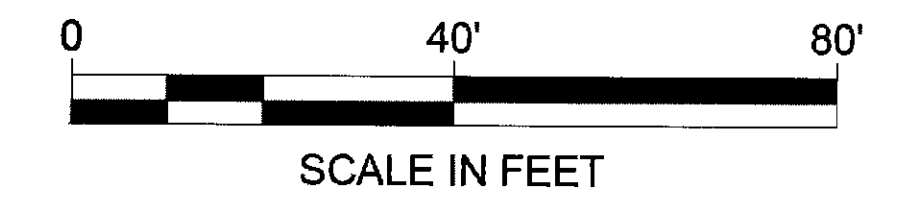
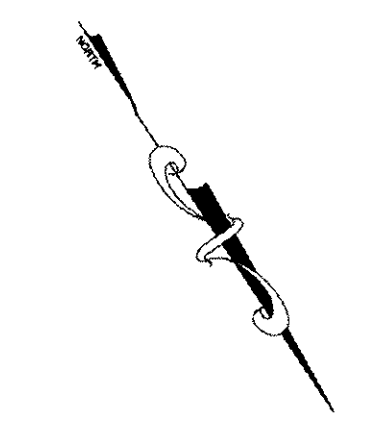
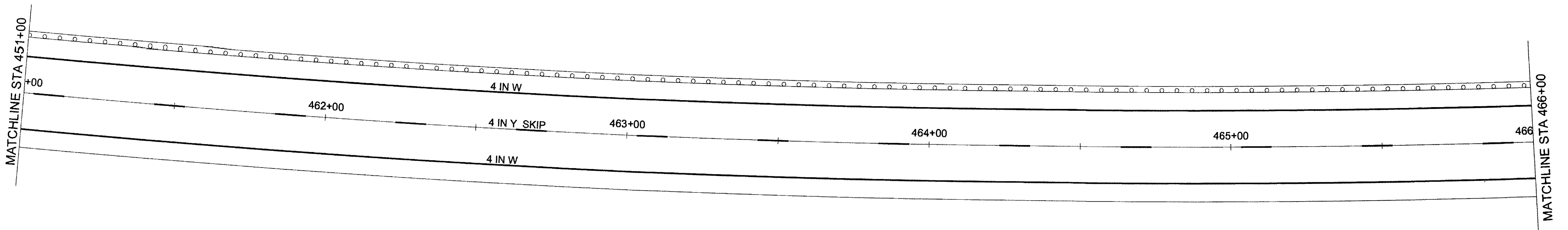
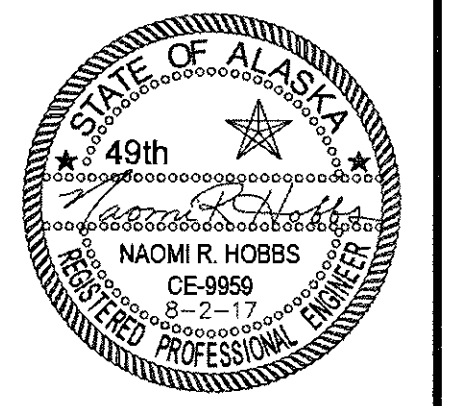
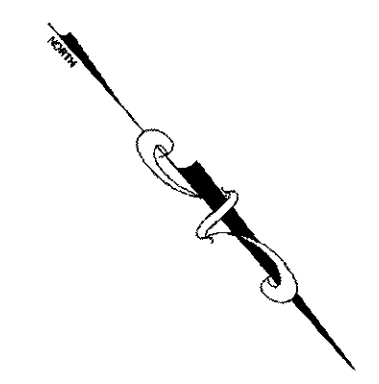
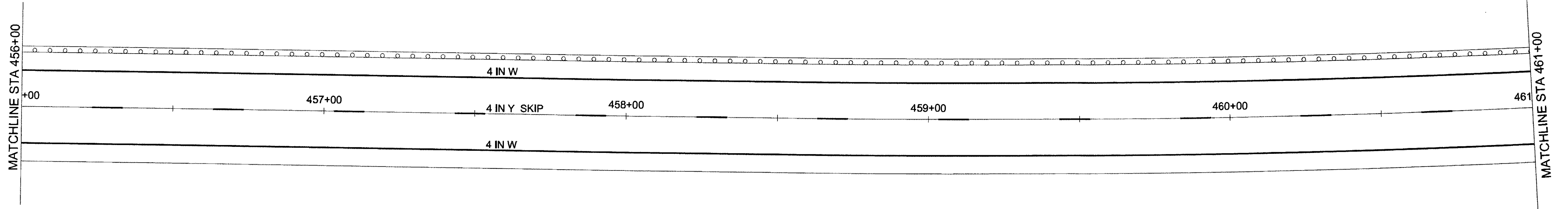
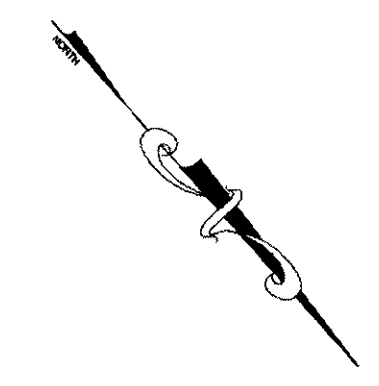
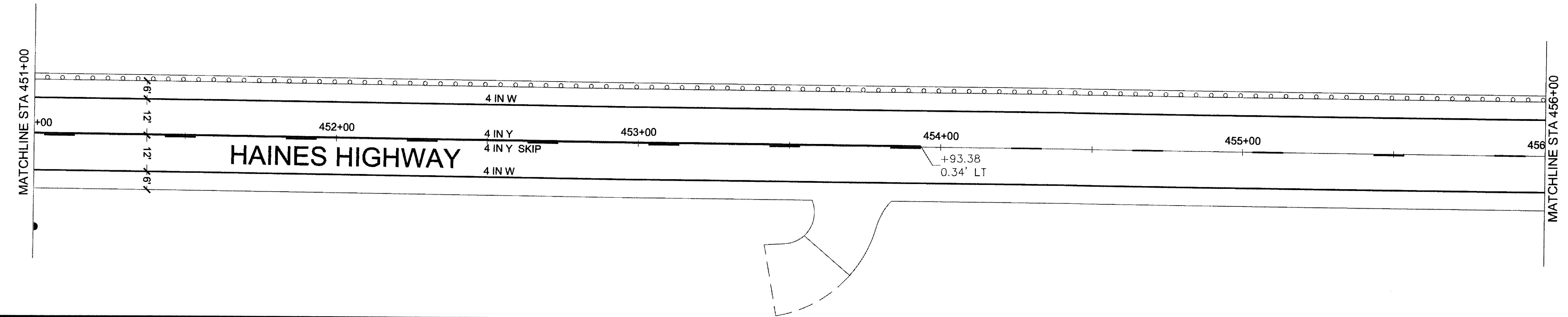
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H18	162

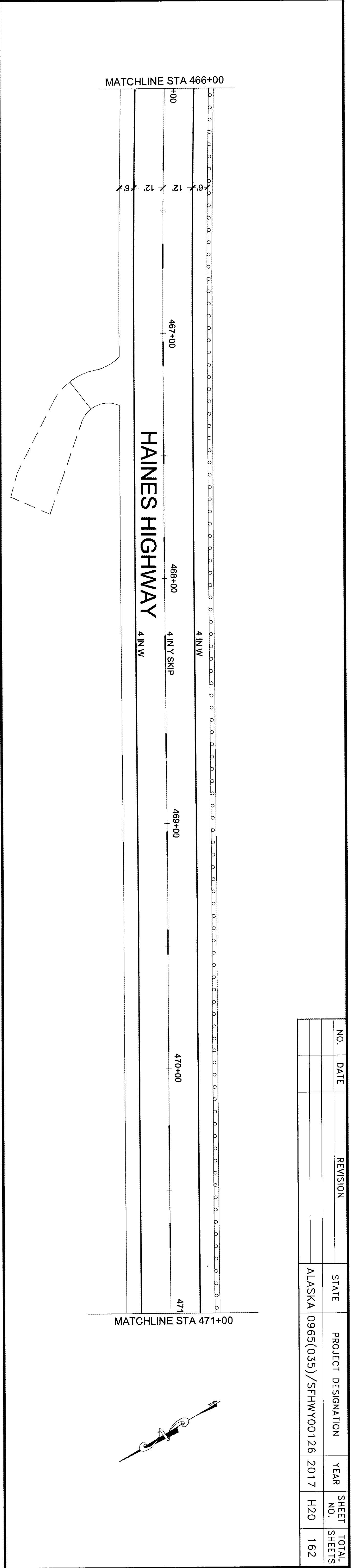
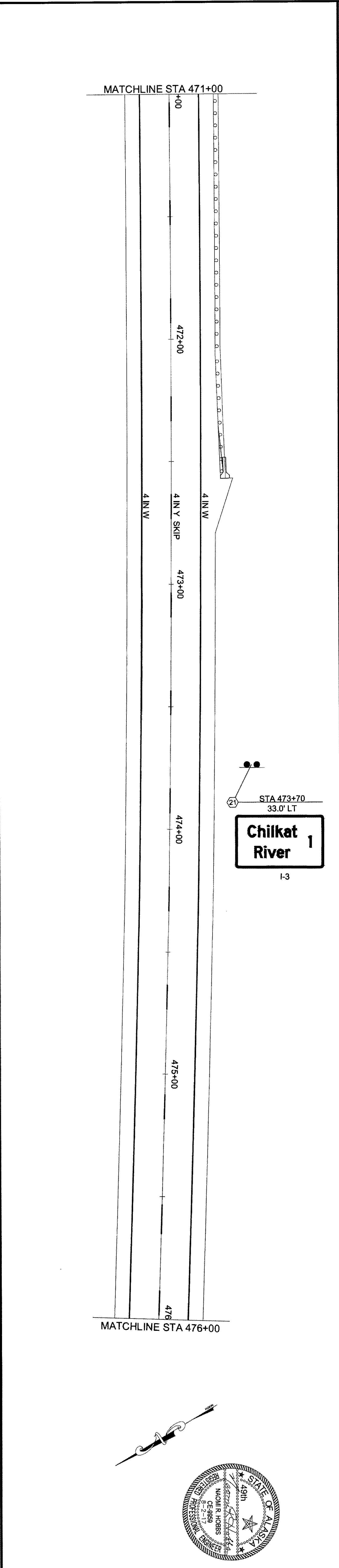
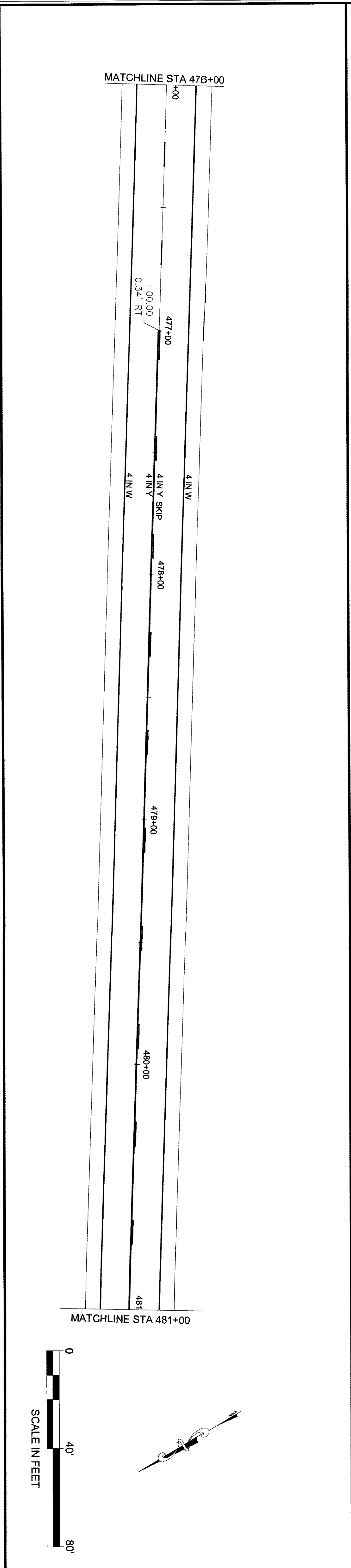


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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/19/2017 12:09  
 LAYOUT: H18  
 CERTIFICATE OF AUTH # : AECLB48

FIRM DOWL  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 CERTIFICATE OF AUTH # AECLB48  
 FILE 0:\24\61850-01\65CAD\MP 3-12 PSE\H SHEETS\H1-H30\_180225.dwg  
 DATE 6/19/2017 12:09 LAYOUT H19  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER

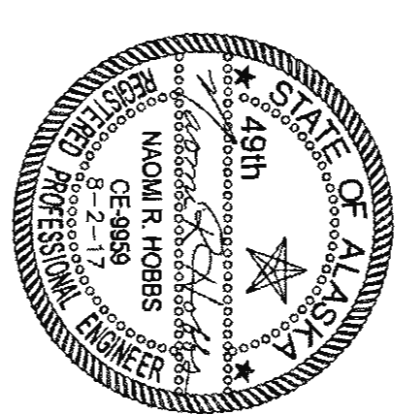
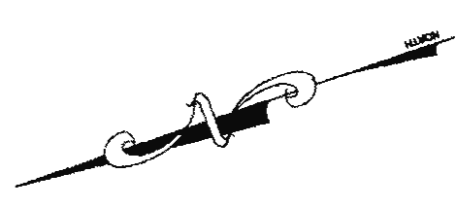
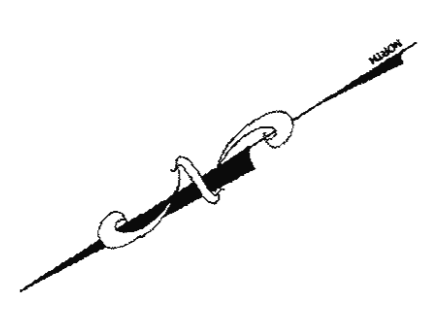
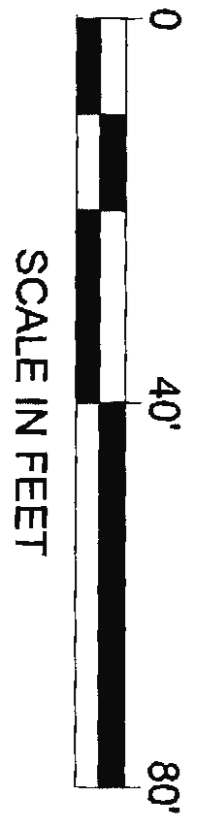
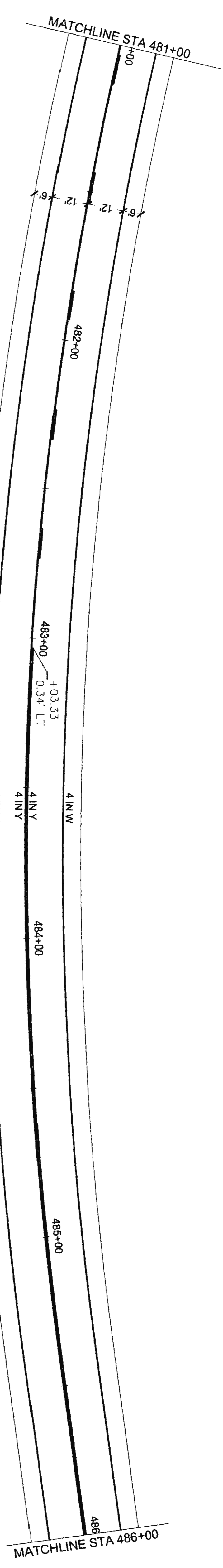
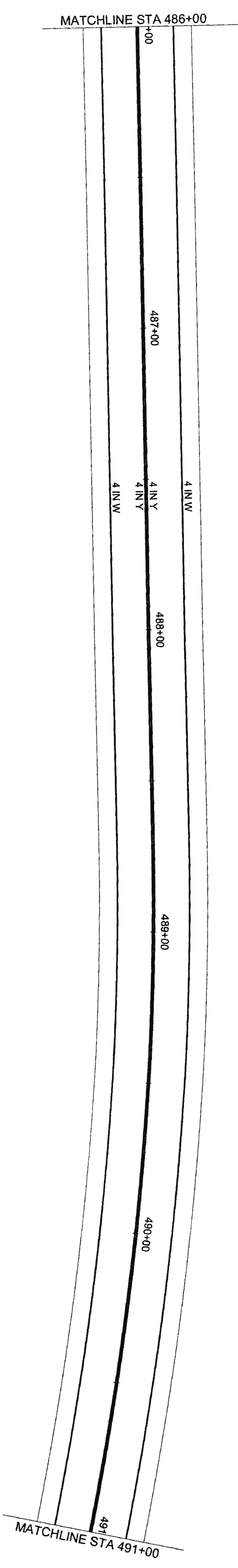
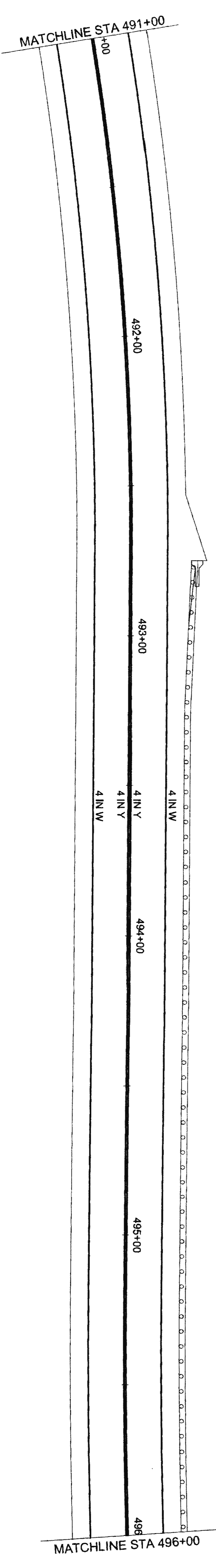
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H19	162





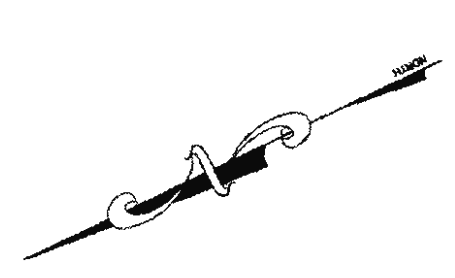
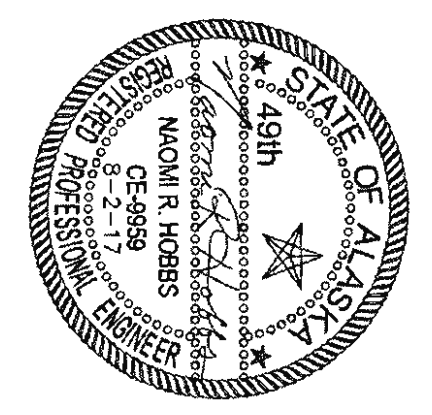
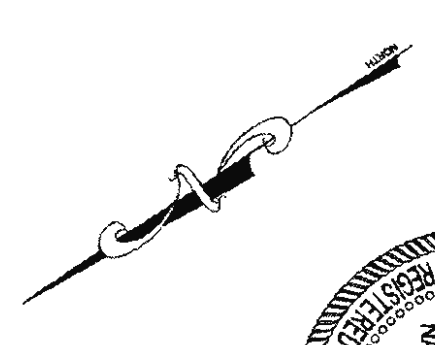
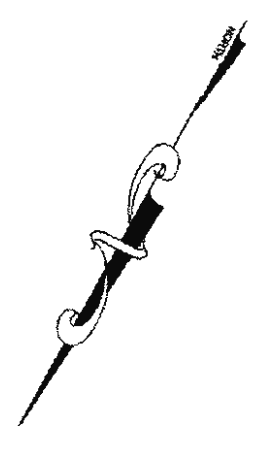
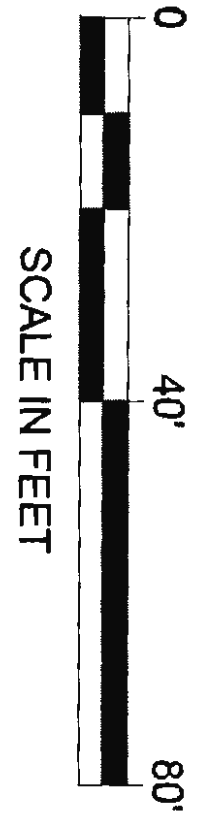
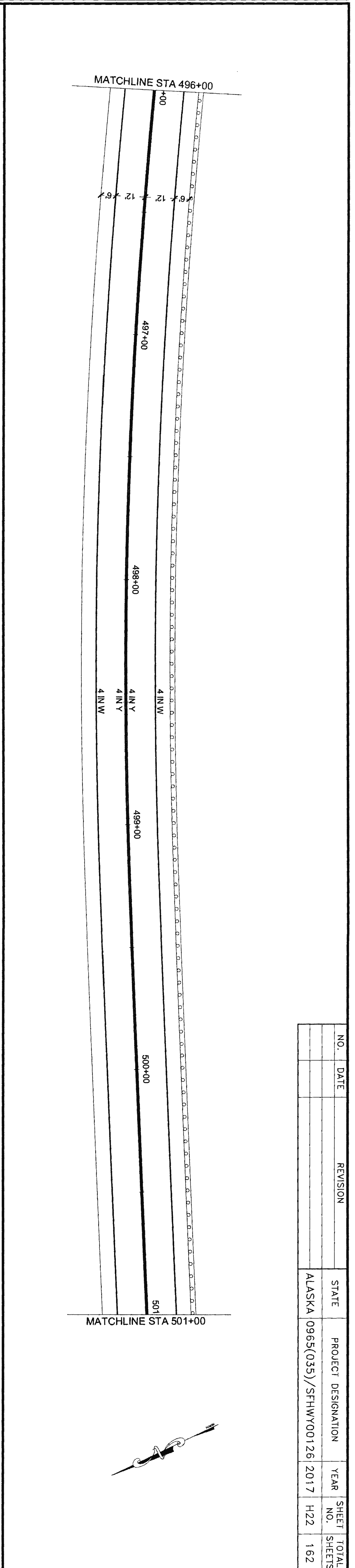
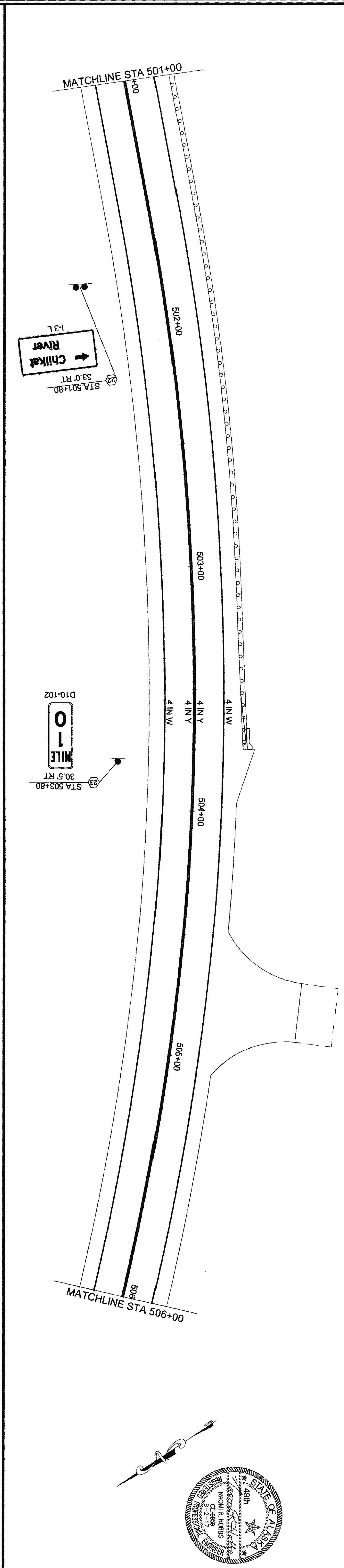
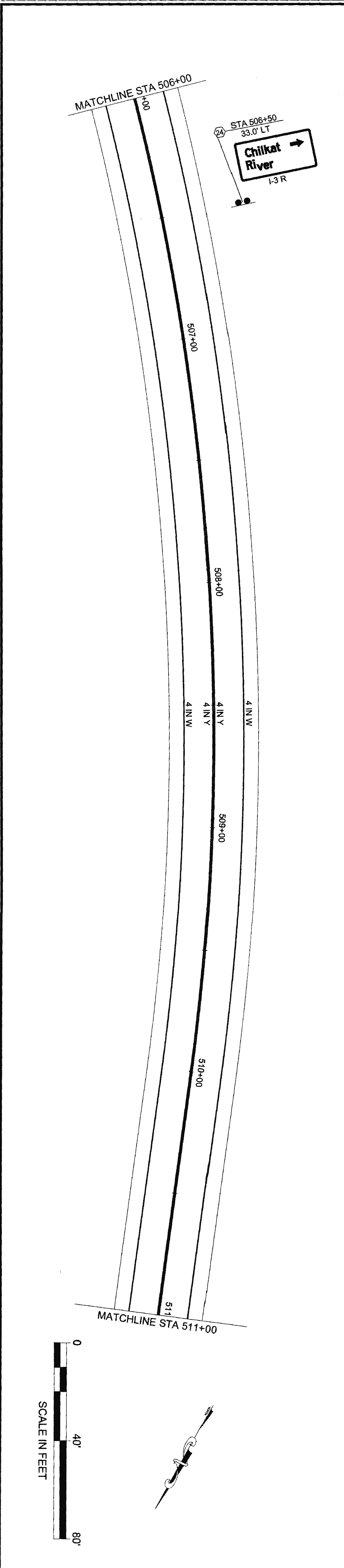
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H20	162

7/25/17 6-25-20



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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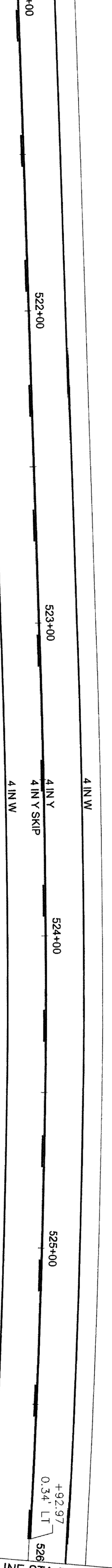
7/20/17 6-25-2



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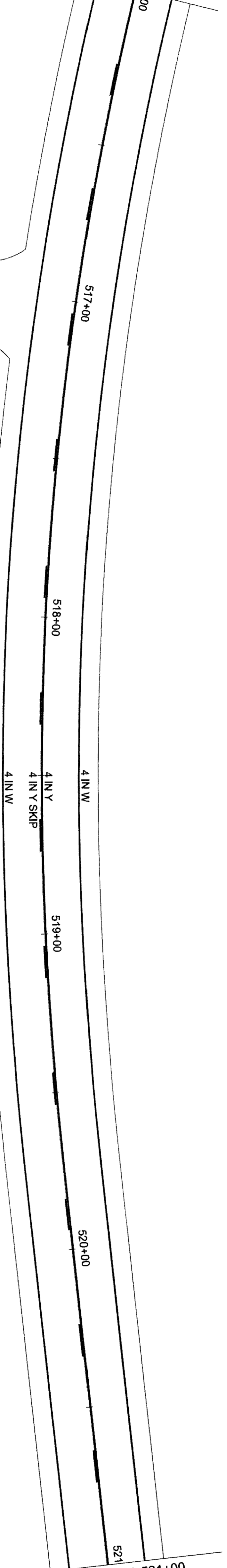


MATCHLINE STA 521+00



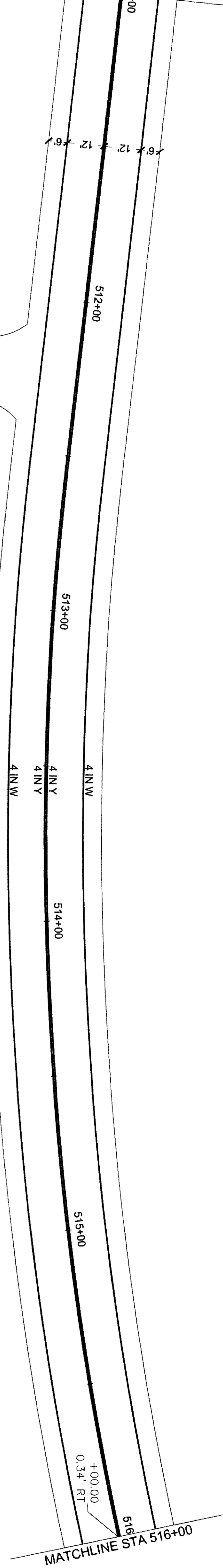
MATCHLINE STA 526+00

MATCHLINE STA 516+00



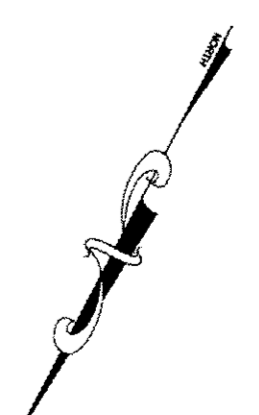
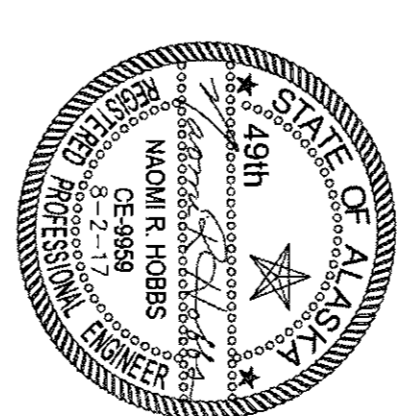
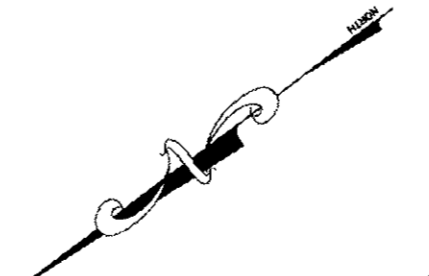
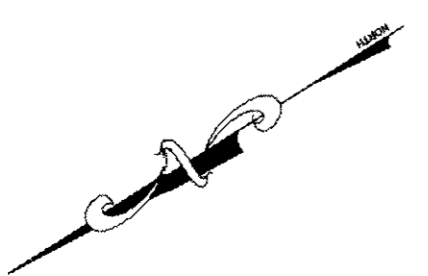
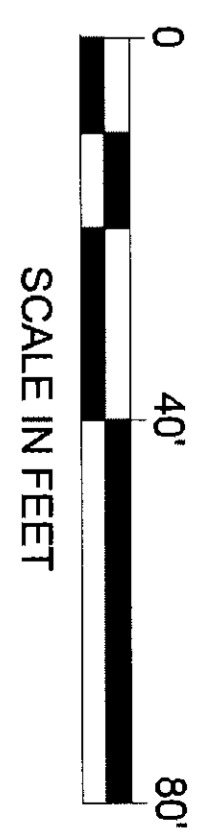
MATCHLINE STA 521+00

MATCHLINE STA 511+00

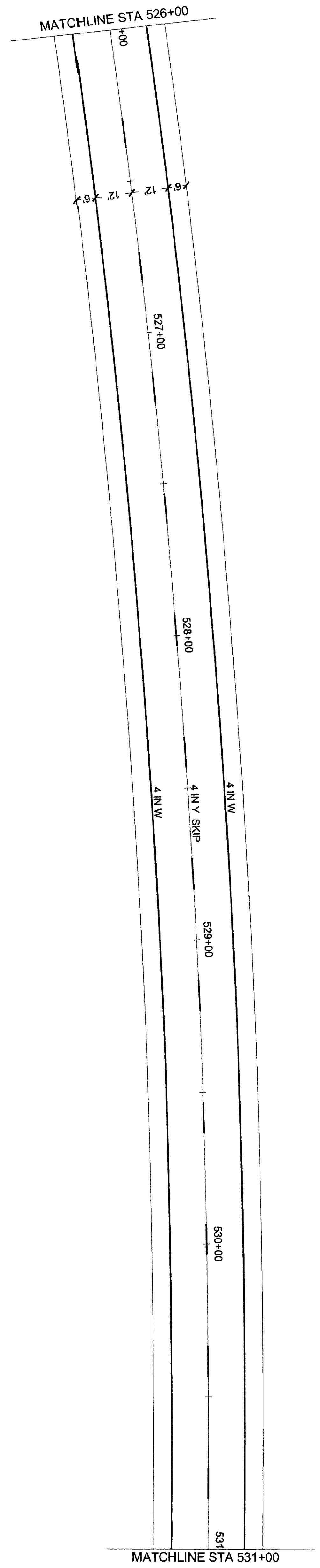
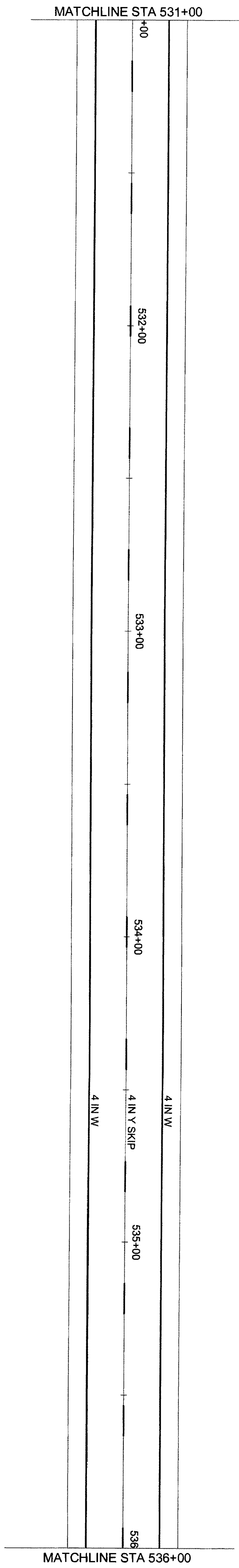
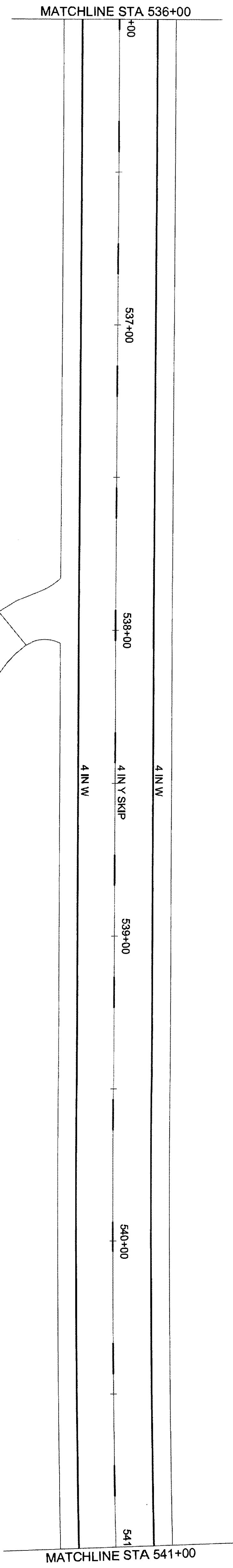


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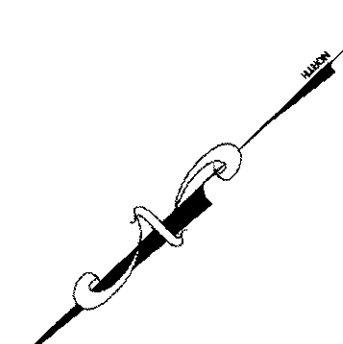
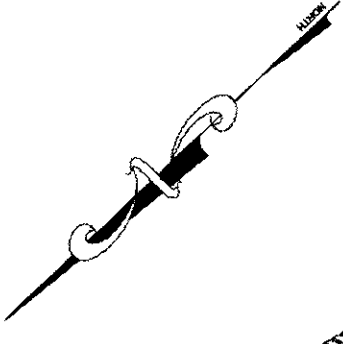
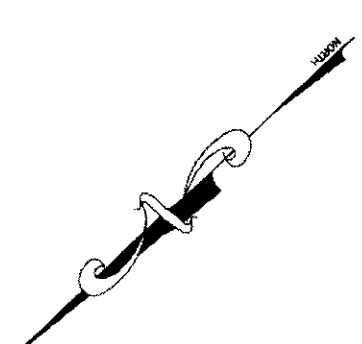
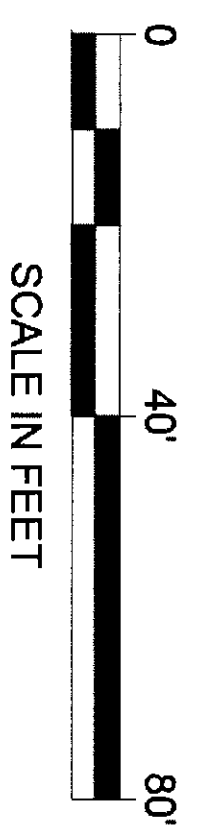
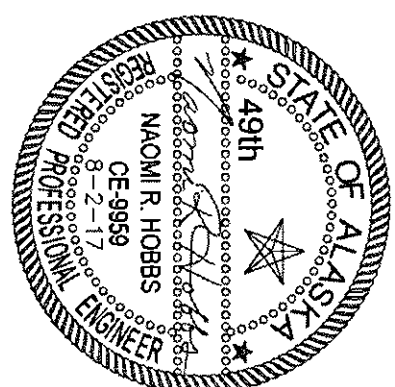
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H23	162



FIRM	DOWL	ADDRESS	5368 COMMERCIAL BLVD, JUNEAU, AK 99801	PHONE	(907) 780-3533	CERTIFICATE OF AUTH #:	AECL848					
FILE	Q:\24\61850-01\65CAD\MP 3-12 PSE\H SHEETS\H1-H30_160225.dwg		DATE	6/19/2017 12:09	LAYOUT	H24	DESIGNED	N. HOBBS	CHECKED	S. NOBLE	DRAFTED	S. TYLER



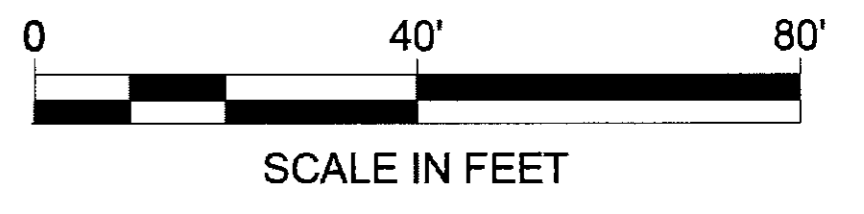
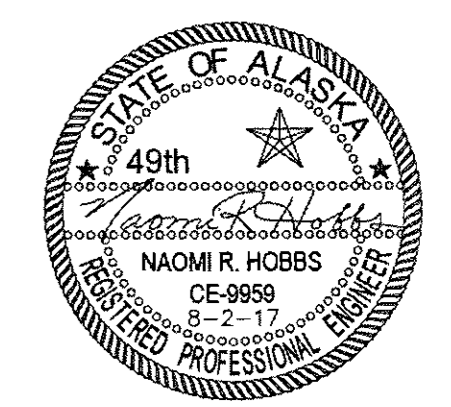
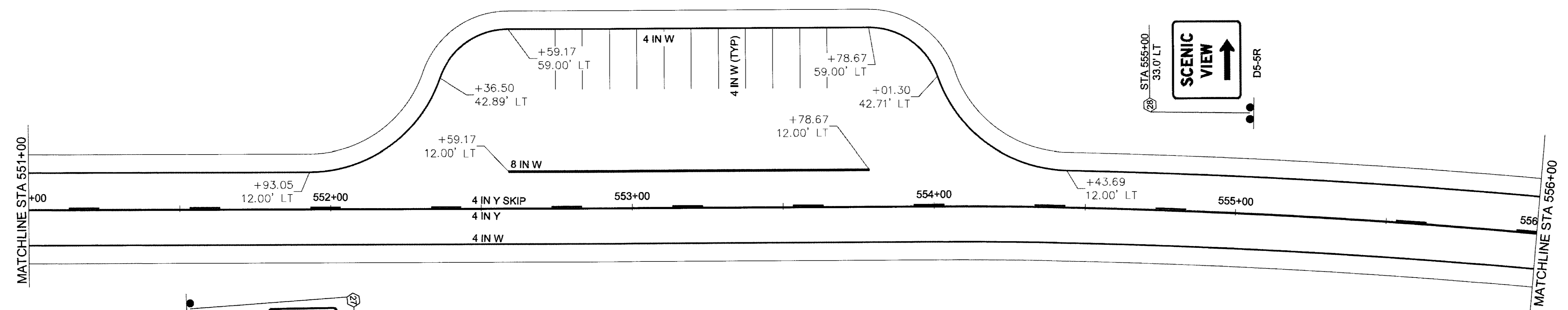
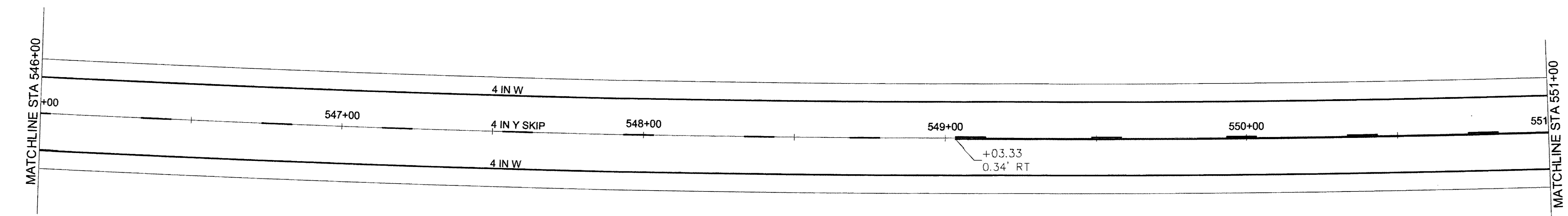
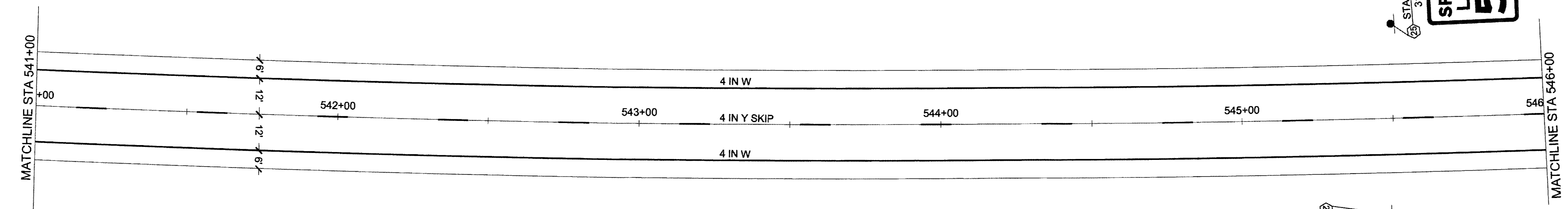
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H24	162

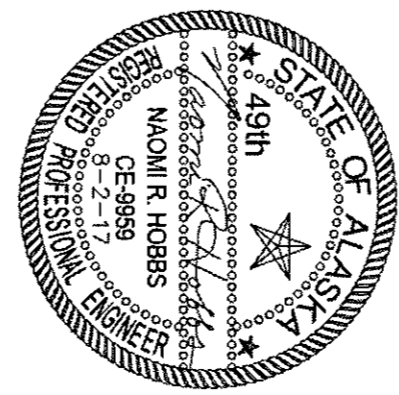
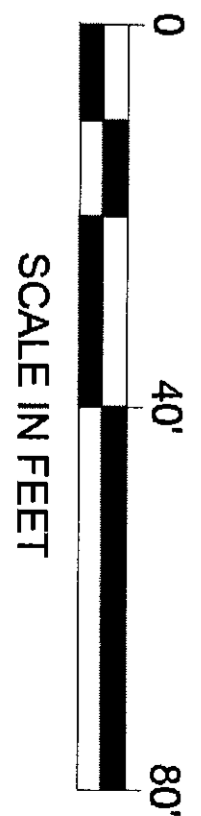
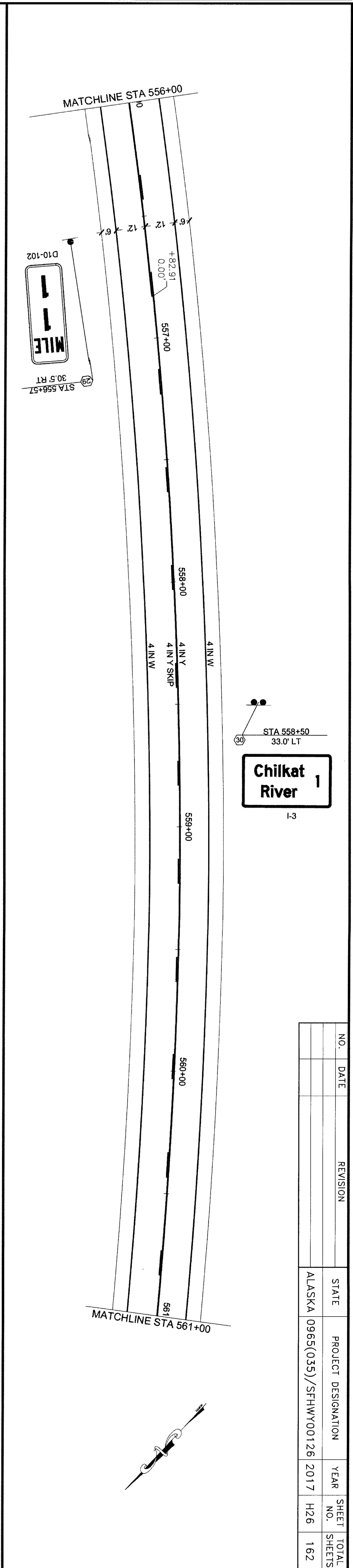
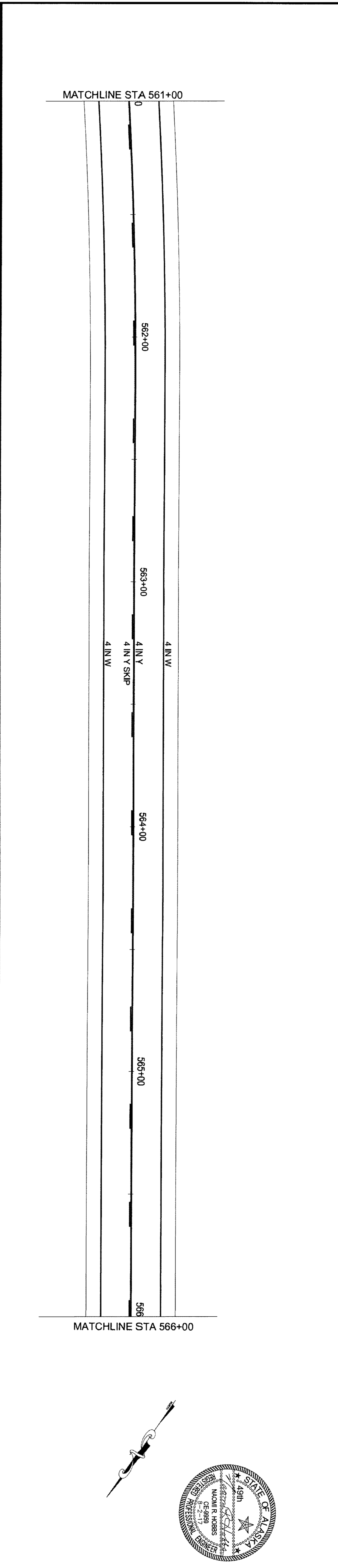
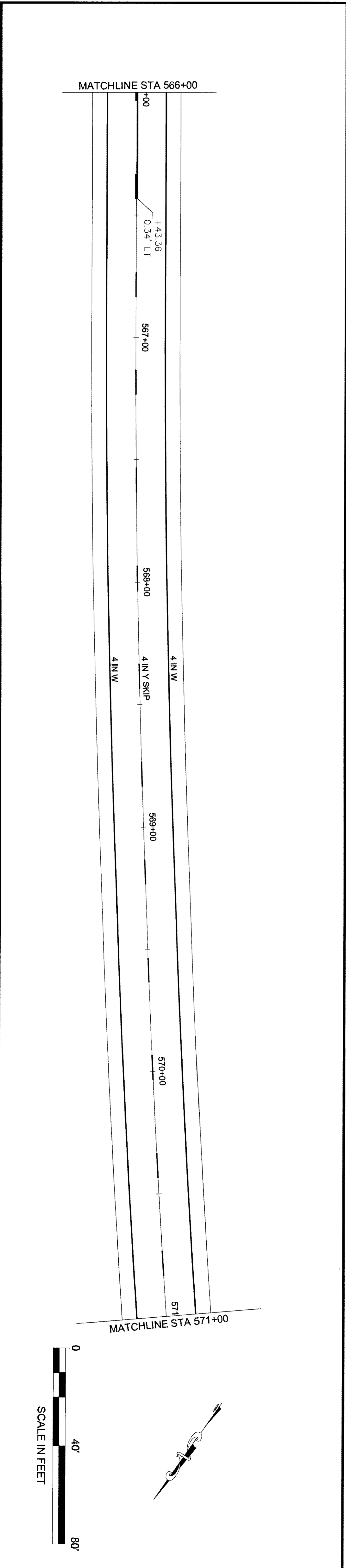


7/25/17 6-25-20

FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH # : AECL848  
 FILE: 0:\24\61850-01\65CAD\WP\_3-12\_PSE\H\_SHEETS\H1-H30\_160225.dwg  
 DATE: 6/19/2017 12:09  
 LAYOUT: H25  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H25	162





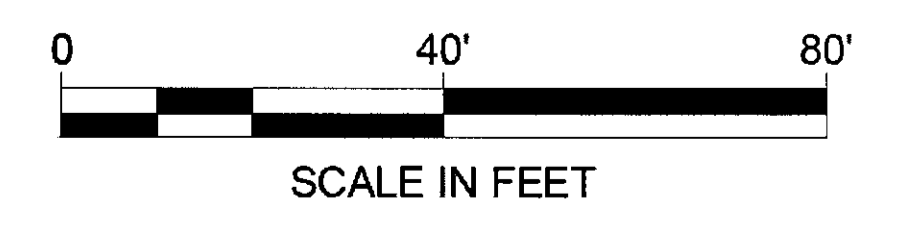
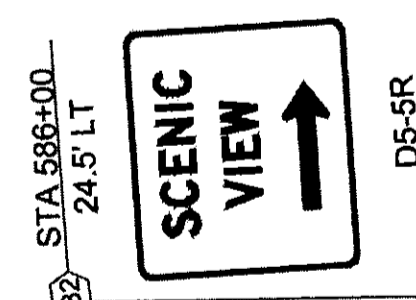
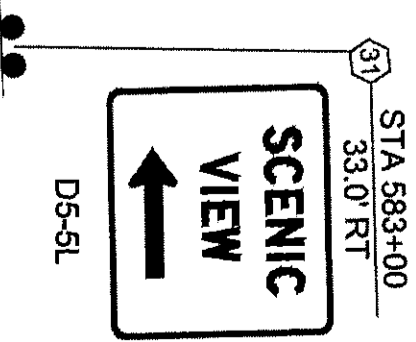
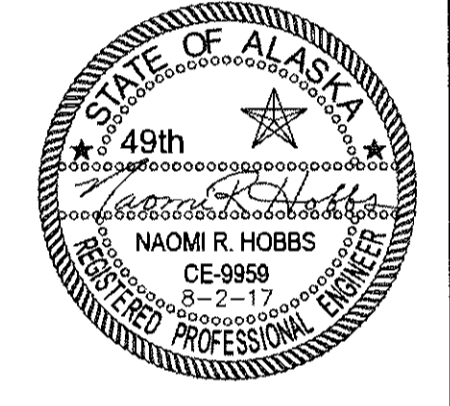
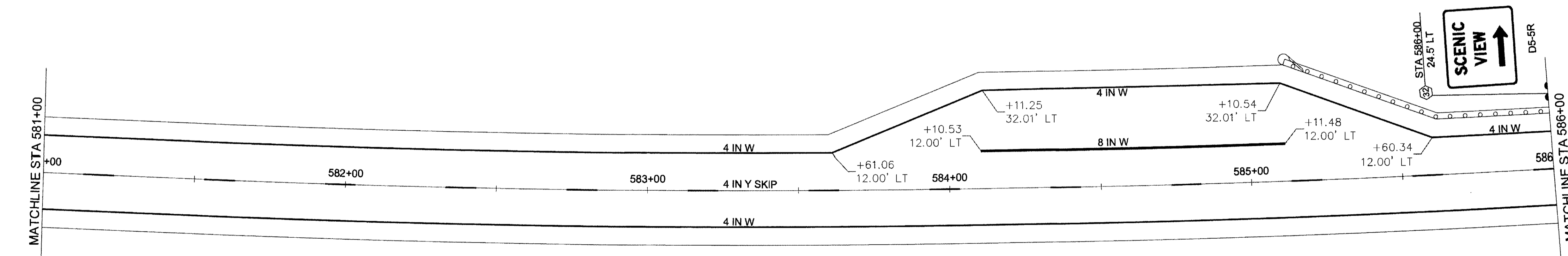
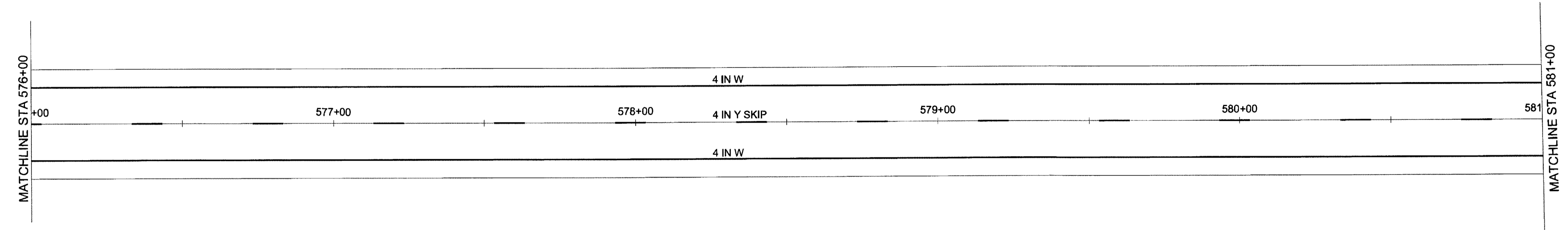
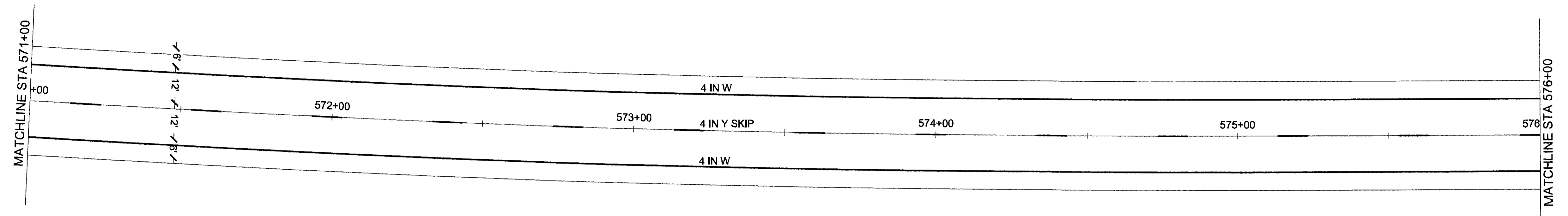
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H26	162

**Chilkat River**  
1  
I-3

7/20/17 6-25-20

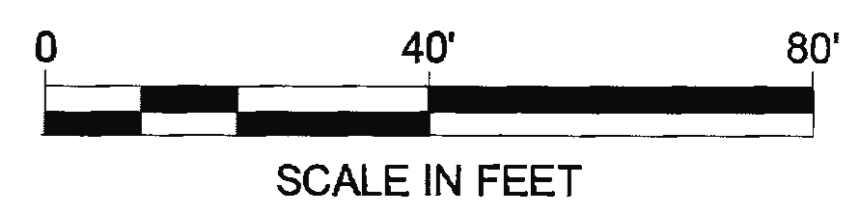
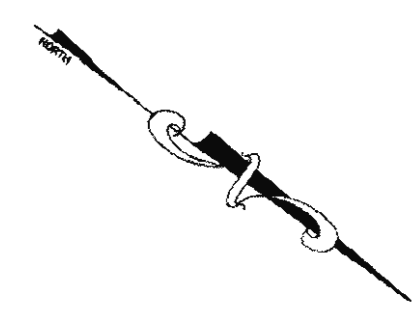
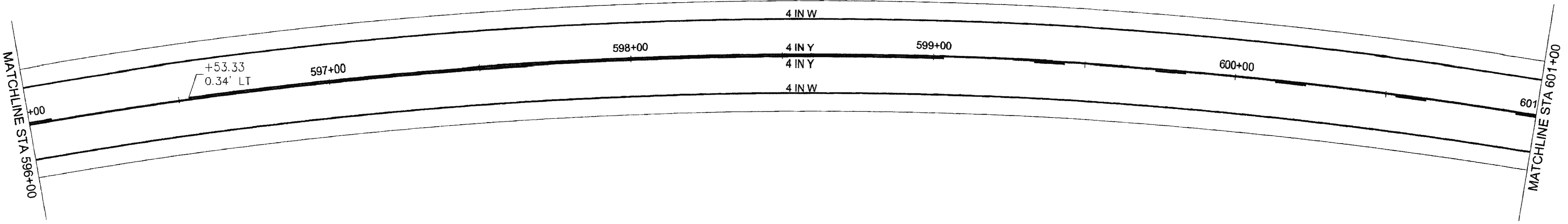
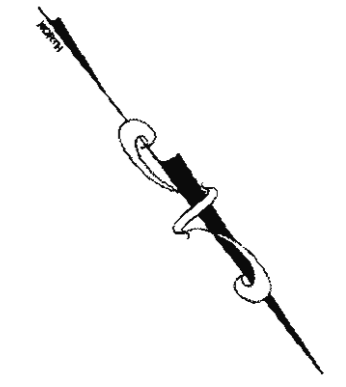
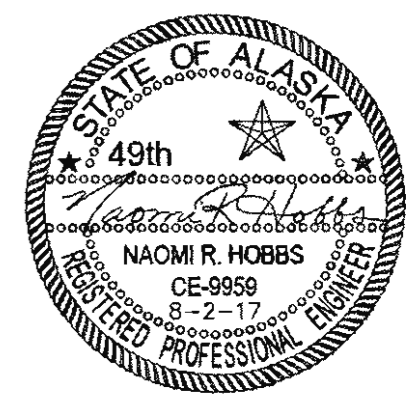
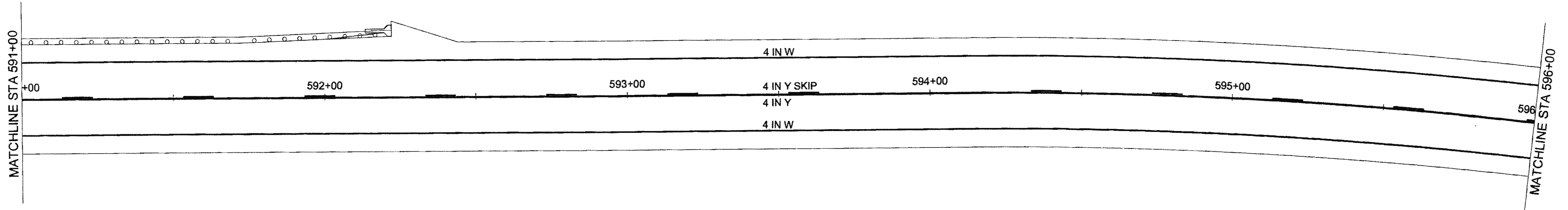
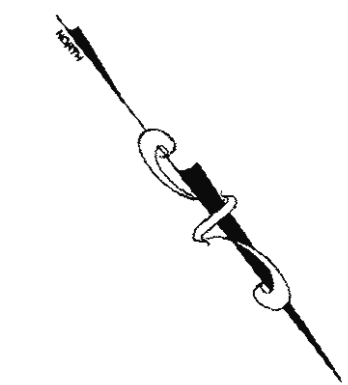
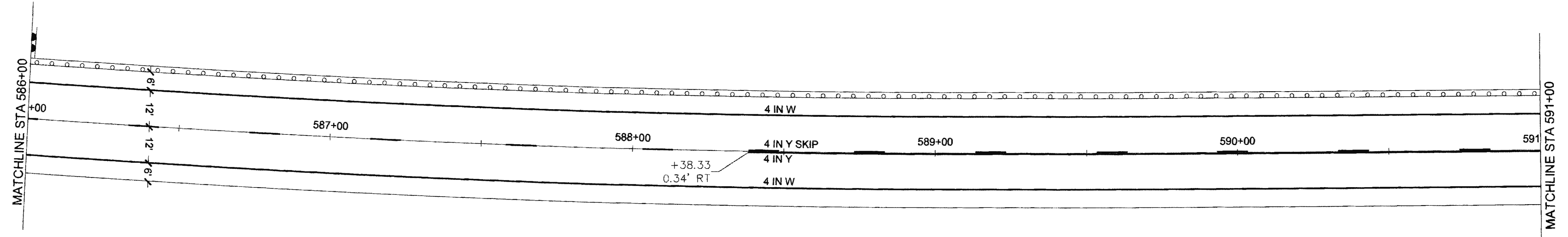
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H27	162

FIRM DOWL	ADDRESS 5366 COMMERCIAL BLVD, JUNEAU, AK 99801	PHONE (907) 780-3533	CERTIFICATE OF AUTH # AEC1848
FILE Q:\24\1850-01\65CAD\MP_3-12_PSE\H_SHEETS\H1-H30_160225.dwg	DATE 6/19/2017 12:09	DESIGNED N. HOBBS	CHECKED S. NOBLE
	LAYOUT H27	DRAFTED S. TYLER	



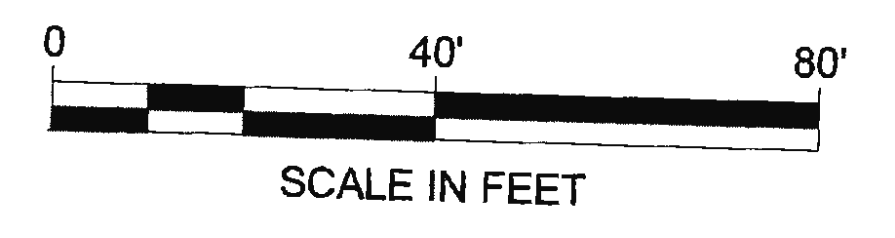
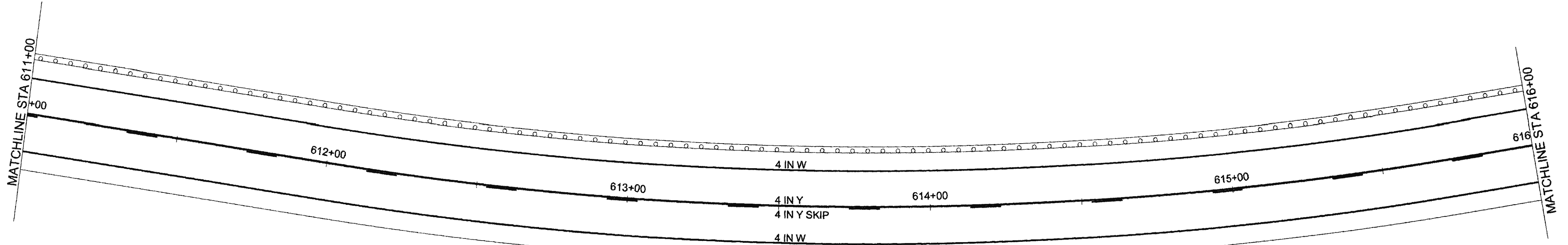
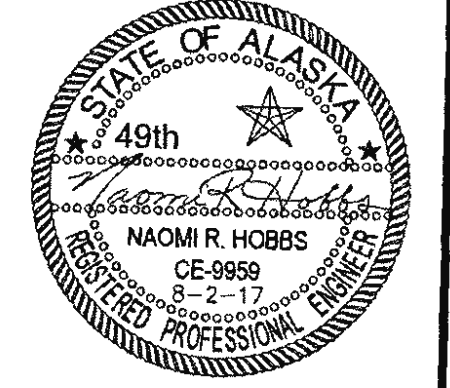
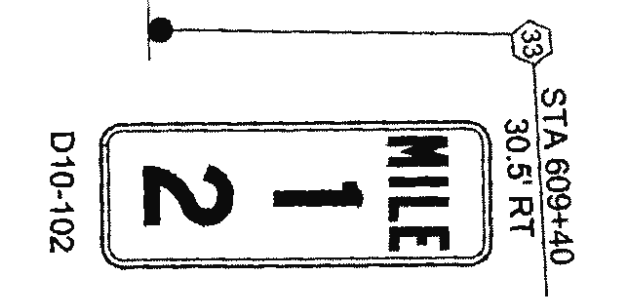
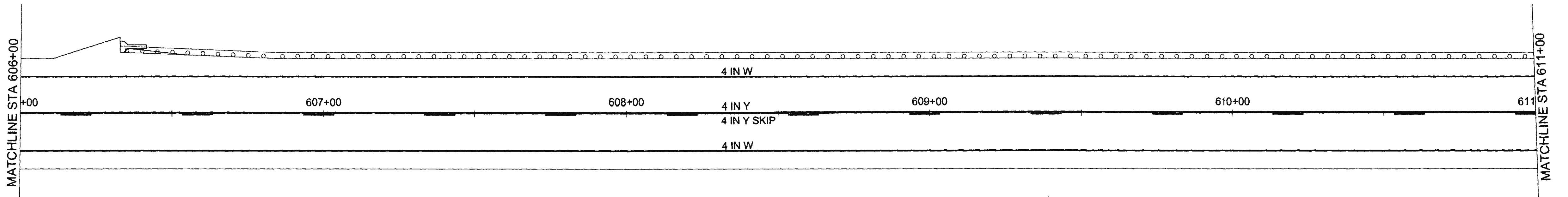
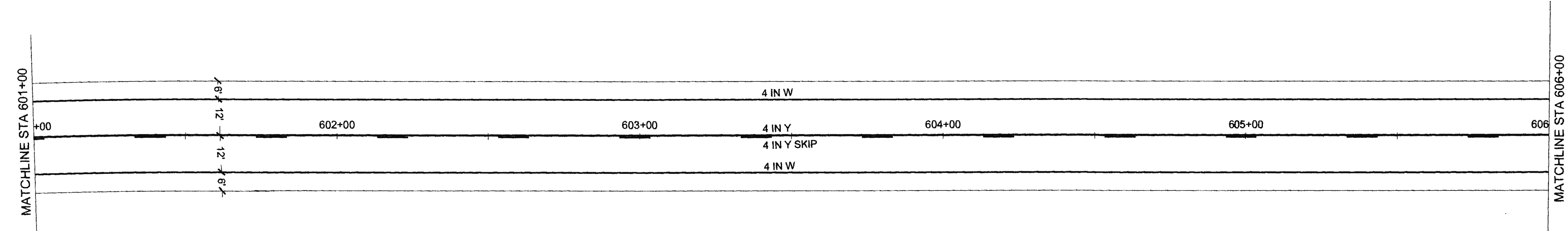
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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE 16/19/2017 12:09 LAYOUT H28  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H28	162



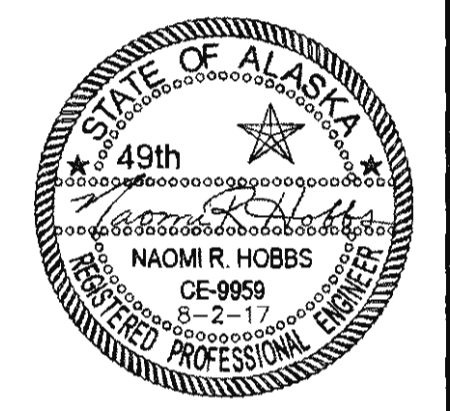
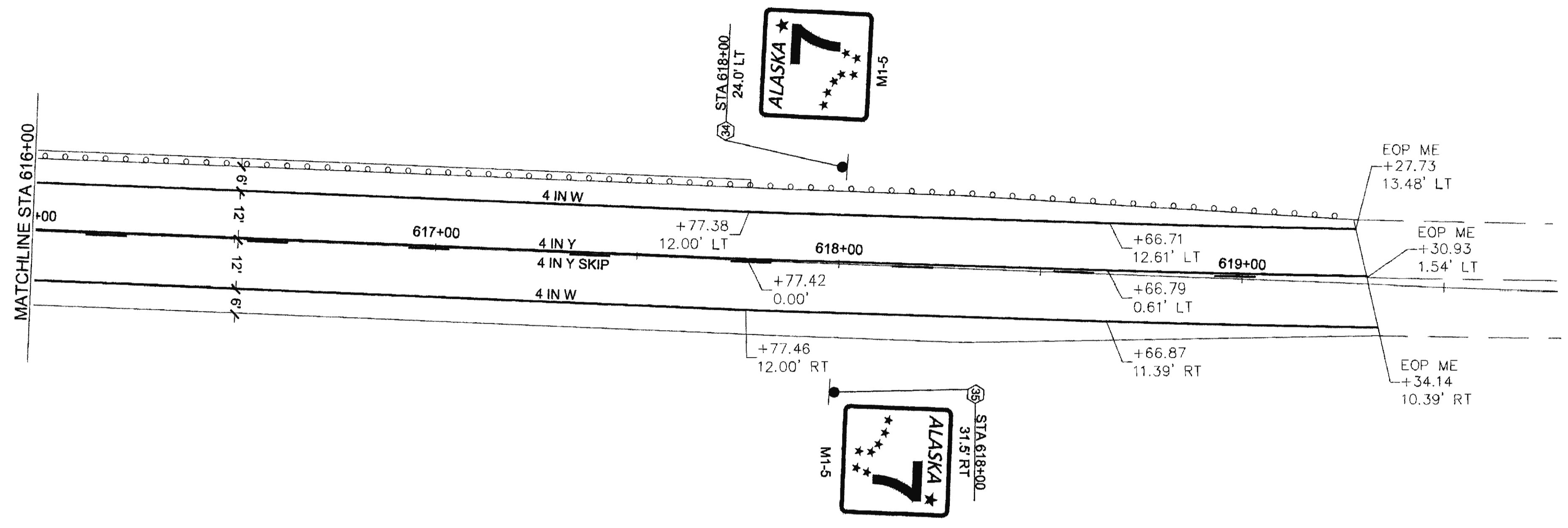
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H29	162

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 FILE 0:\24\1850-01\65CAD\MP 3-12 PSE\H SHEETS\H1-H30\_160225.dwg  
 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE 6/19/2017 12:09 LAYOUT H29  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # AEC1848



FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH #1 AEC1848  
 FILE: O:\24\61850-01\65CAD\MP 3-12 PSE\1 SHEETS\H1-H30\_160225.dwg  
 DATE: 6/19/2017 12:09  
 LAYOUT: H30  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H30	162





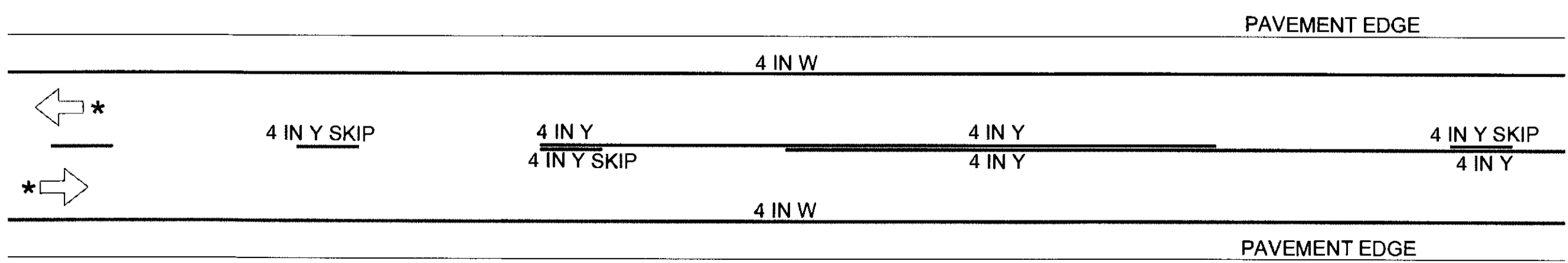
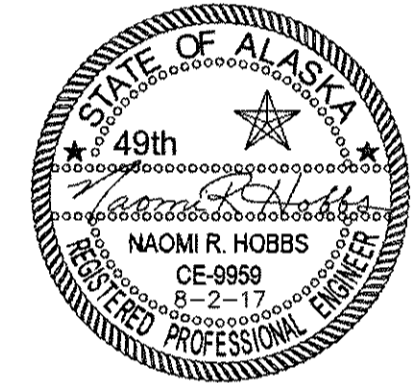
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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE 6/19/2017 12:08 LAYOUT H31  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. TYLER  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # JACLBH48

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H31	162

SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	SIZE (IN)		AREA (FT2)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED		REMARKS
							WIDTH	HEIGHT				YES	NO	
H1	1	185+00	31.5'	LT	M1-5		36	36	9.0	W	1-2.5"x2.5"T	X		
	2	185+00	31.5'	RT	M1-5		36	36	9.0	E	1-2.5"x2.5"T	X		
	3	186+97	30.5'	RT	D10-101		12	24	2.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
H4	4	239+77	30.5'	RT	D10-101		12	24	2.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
H8	5	292+57	30.5'	RT	D10-101		12	24	2.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
H11	6	342+43	34.0'	RT	D7-2R		78	36	19.5	E		X		WHITE LEGEND ON BROWN BACKGROUND
					RA-80		24	24	4.0	E	2-4.0"x6.0"W		X	WHITE LEGEND ON BROWN BACKGROUND
					RL-100		24	24	4.0	E			X	WHITE LEGEND ON BROWN BACKGROUND
H11	7	345+37	30.5'	RT	D10-101		12	24	2.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
					D7-2L		78	36	19.5	W		X		WHITE LEGEND ON BROWN BACKGROUND
					RA-80		24	24	4.0	W	2, 4.0"x6.0"W		X	WHITE LEGEND ON BROWN BACKGROUND
RL-100		24	24	4.0										
H13	9	367+00	33.0'	LT RT	I-3		60	36	15.0	E	2, 4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND
H14	10	376+53 375+25	33.0'	RT	D5-5L		54	48	18.0	E	2, 4.0"x6.0"W	X		WHITE LEGEND ON BLUE BACKGROUND

**SIGNING & STRIPING NOTES:**

- ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
  - A. PST MEANS A PERFORATED STEEL TUBE.
  - B. T MEANS A SQUARE STEEL TUBE.
  - C. W MEANS TREATED WOOD.
- FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER.
- FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDIX D OF THE SPECIAL PROVISIONS.
- SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
- IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 55:1 TAPER ON THE NEW PAVEMENT.
- INSTALL AND MAINTAIN INTERIM PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH SECTION 643.
- OFFSET TEMPORARY MARKINGS 8"-12" FROM THE FUTURE LOCATION OF PERMANENT MARKINGS IF APPLIED ON THE SAME LIFT OF PAVEMENT.

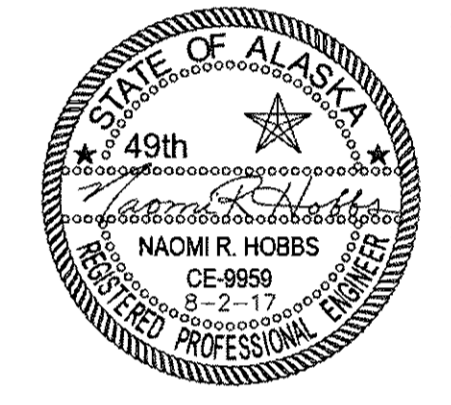


**INTERIM AND TEMPORARY PAVEMENT MARKING DETAIL**  
 \* DIRECTION OF TRAFFIC

FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH # : ACCL848  
 FILE: O:\24\61850-01\65CAD\MP 3-12 PSE\H SHEETS\H37-H37\_160225.dwg  
 DATE: 6/19/2017 12:08  
 LAYOUT: H32  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	SIZE (FT)		AREA (FT2)	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED		REMARKS
							WIDTH	HEIGHT				YES	NO	
H14	11	379+79	24.5'	LT	D5-5R		54	48	18.0	W	2-4.0"x6.0"W	X		WHITE LEGEND ON BLUE BACKGROUND
	12	393+48	33.0'	RT	D6-1AL		54	48	18.0	E	2-4.0"x6.0"W	X		WHITE LEGEND ON BLUE BACKGROUND
H15	13	396+45	24.5'	LT	D6-1AR		54	48	18.0	W	2-4.0"x6.0"W	X		WHITE LEGEND ON BLUE BACKGROUND
	14	398+17	30.5'	RT	D10-101		12	24	2.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
	15	413+43	35.0'	RT	D7-102		120	36	30.0	E	2-4.0"x6.0"W	X		WHITE LEGEND ON BROWN BACKGROUND
H16	16	413+43	26.5'	LT	D7-102		120	36	30.0	W	2-4.0"x6.0"W	X		WHITE LEGEND ON BROWN BACKGROUND
	17	419+70	33.0'	RT	I-3L		72	36	18.0	E	2-4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND
H17	18	422+00	25.0'	LT	I-3R		72	36	18.0	W	2-4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND
	19	449+00	33.0'	RT	I-3		60	36	15	E	2-4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND
H18	20	451+00	30.5'	RT	D10-101		12	24	2.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
H20	21	473+70	33.0'	LT	I-3		60	36	15.0	W	2-4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND
	22	501+80	33.0'	RT	I-3L		72	36	18.0	E	2-4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND
H22	23	503+80	30.5'	RT	D10-102		12	36	3.0	E/W	1-2.5"x2.5"PST		X	TWO SIGNS BACK TO BACK
	24	506+50	33.0'	LT	I-3R		72	36	18.0	W	2-4.0"x6.0"W	X		WHITE LEGEND ON GREEN BACKGROUND

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H32	162



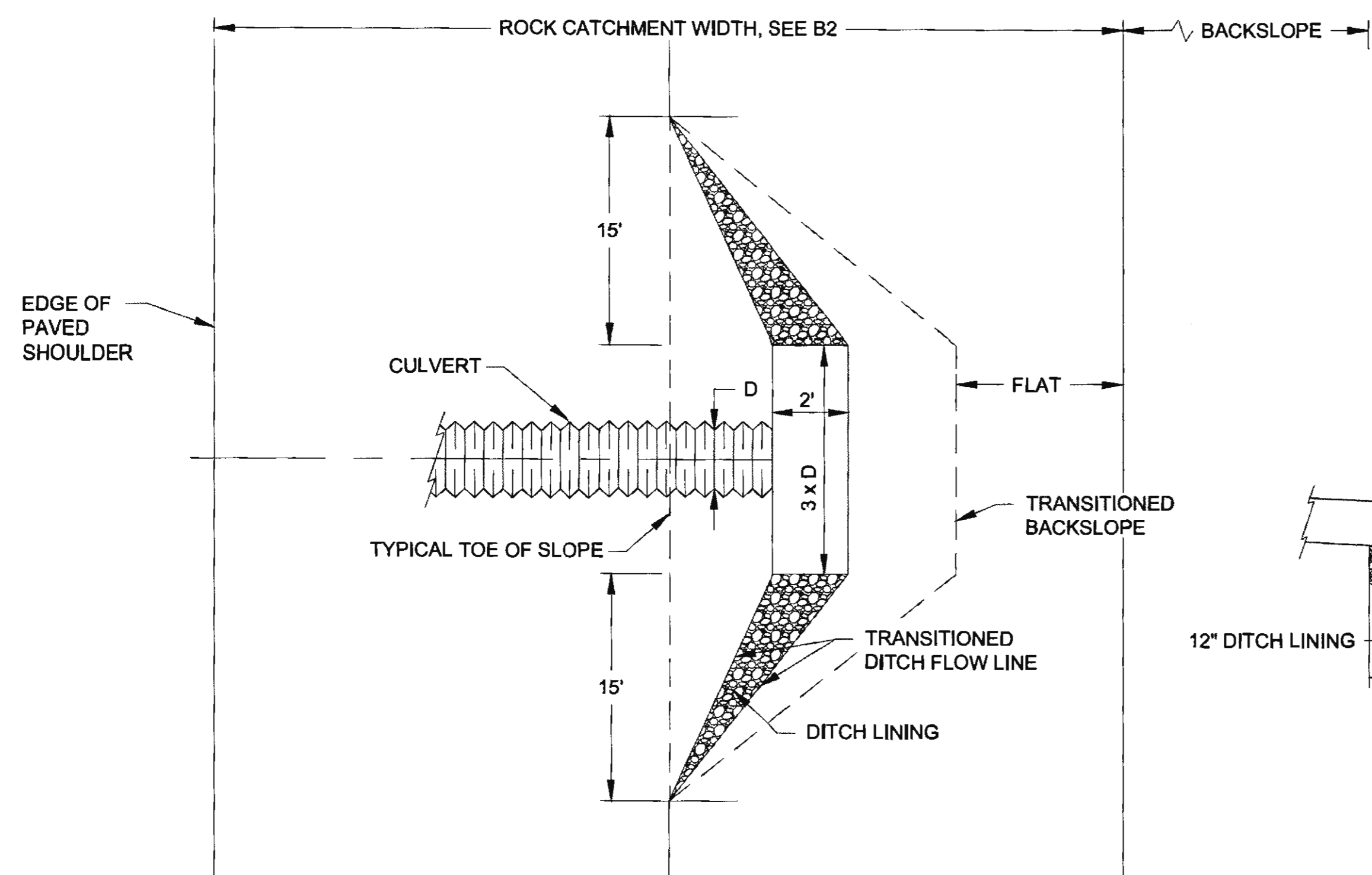
FIRM DOWL  
 FILE 0:\24\1850-01\65CAD\MP 3-12 PSE\H SHEETS\H31-H37\_160225.dwg  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 6/19/2017 12:08 LAYOUT H33  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	SIZE (FT)		AREA (FT <sup>2</sup> )	SIGN FACES	POSTS NO., SIZE, & TYPE	FRAMED		REMARKS
							WIDTH	HEIGHT				YES	NO	
H25	25	545+50	31.5'	LT	R2-1		30	36	7.5	W	1-2.5"x2.5" PST		X	
	26	545+50	31.5'	RT	R2-1		30	36	7.5	E	1-2.5"x2.5" PST		X	
	27	551+50	33.0'	RT	D5-5L		54	48	18.0	E	2-4.0"x6.0" W	X		WHITE LEGEND ON BLUE BACKGROUND
	28	555+00	33.0'	LT	D5-5R		54	48	18.0	W	2-4.0"x6.0" W	X		WHITE LEGEND ON BLUE BACKGROUND
H26	29	556+57	30.5'	RT	D10-102		12	36	3.0	E/W	1-2.5"x2.5" PST		X	TWO SIGNS BACK TO BACK
	30	558+50	33.0'	LT	I-3		60	36	15.0	W	2-4.0"x6.0" W	X		WHITE LEGEND ON GREEN BACKGROUND
H27	31	583+00	33.0'	RT	D5-5L		54	48	18.0	E	2-4.0"x6.0" W	X		WHITE LEGEND ON BLUE BACKGROUND
	32	586+00	24.5'	LT	D5-5R		54	48	18.0	W	2-4.0"x6.0" W	X		WHITE LEGEND ON BLUE BACKGROUND
H29	33	609+40	30.5'	RT	D10-102		12	36	3.0	E/W	1-2.5"x2.5" PST		X	TWO SIGNS BACK TO BACK
H30	34	618+00	24.0'	LT	M1-5		36	36	9.0	W	1-2.5"x2.5" PST	X		
	35	618+00	31.5'	RT	M1-5		36	36	9.0	E	1-2.5"x2.5" PST	X		

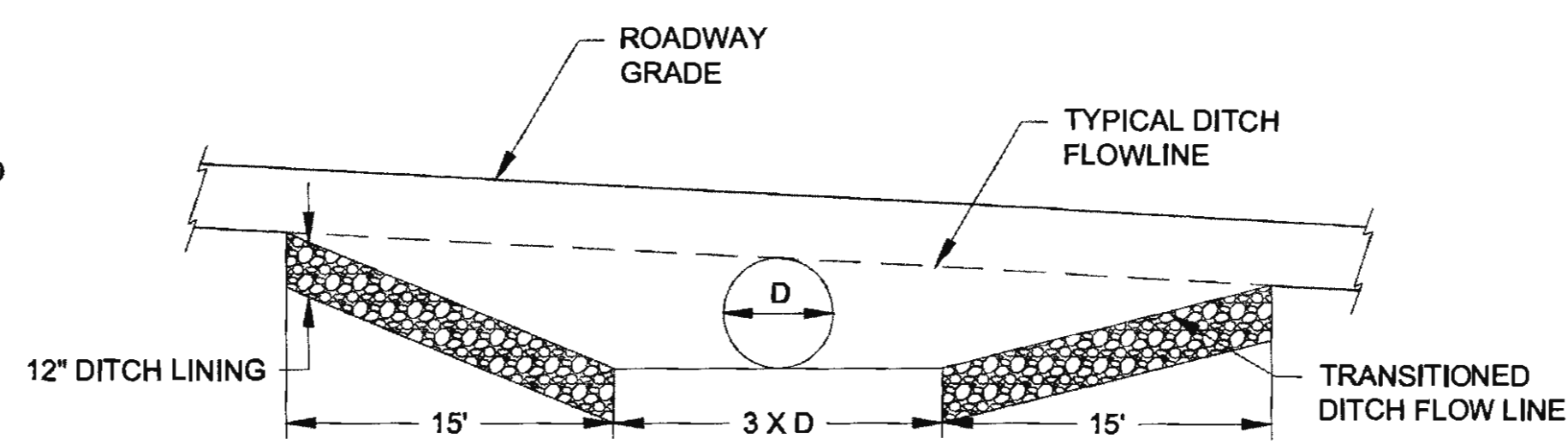
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	H33	162



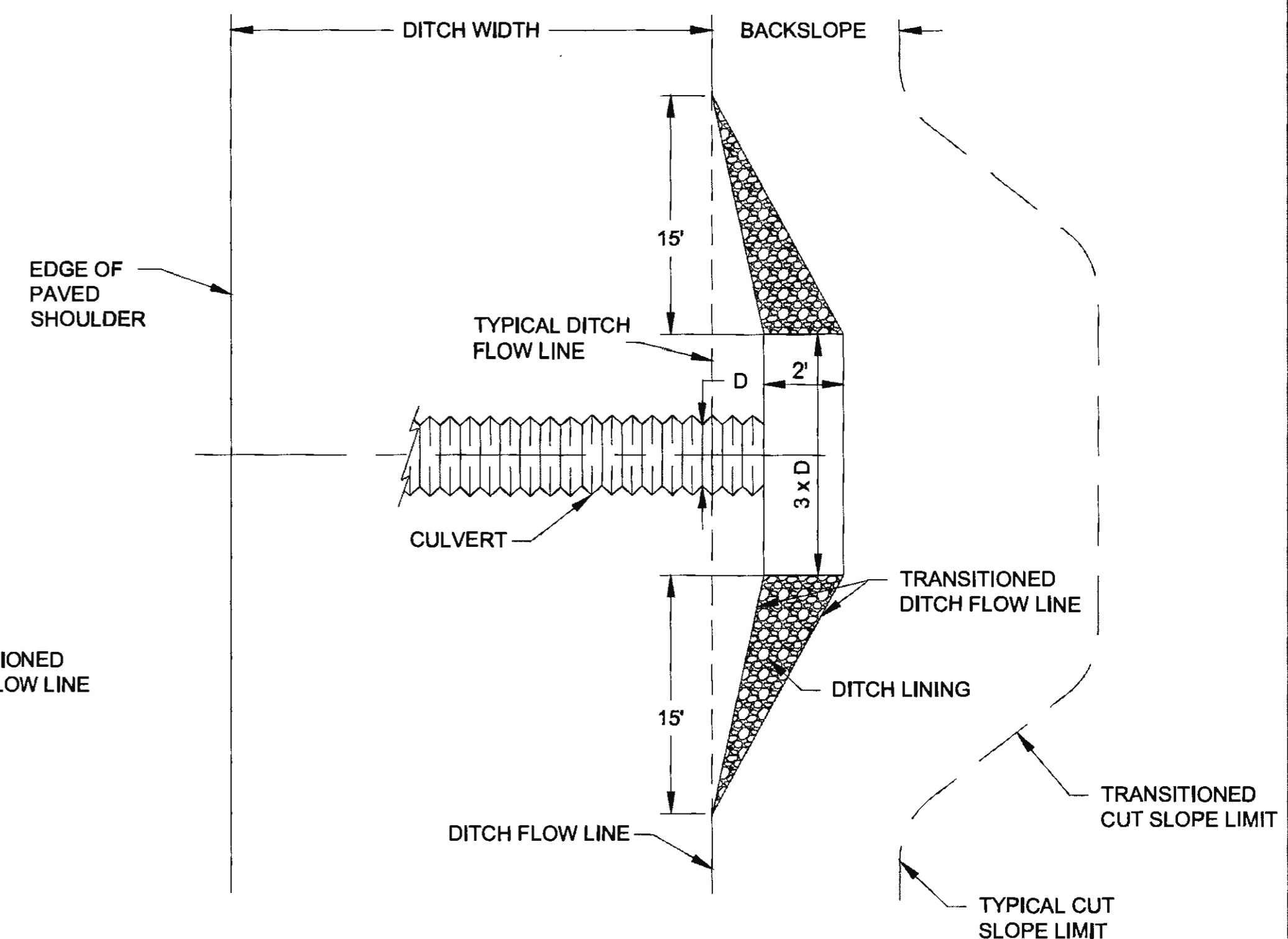
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			ALASKA	0965(035)/SFHWY00126	2017	J1	162



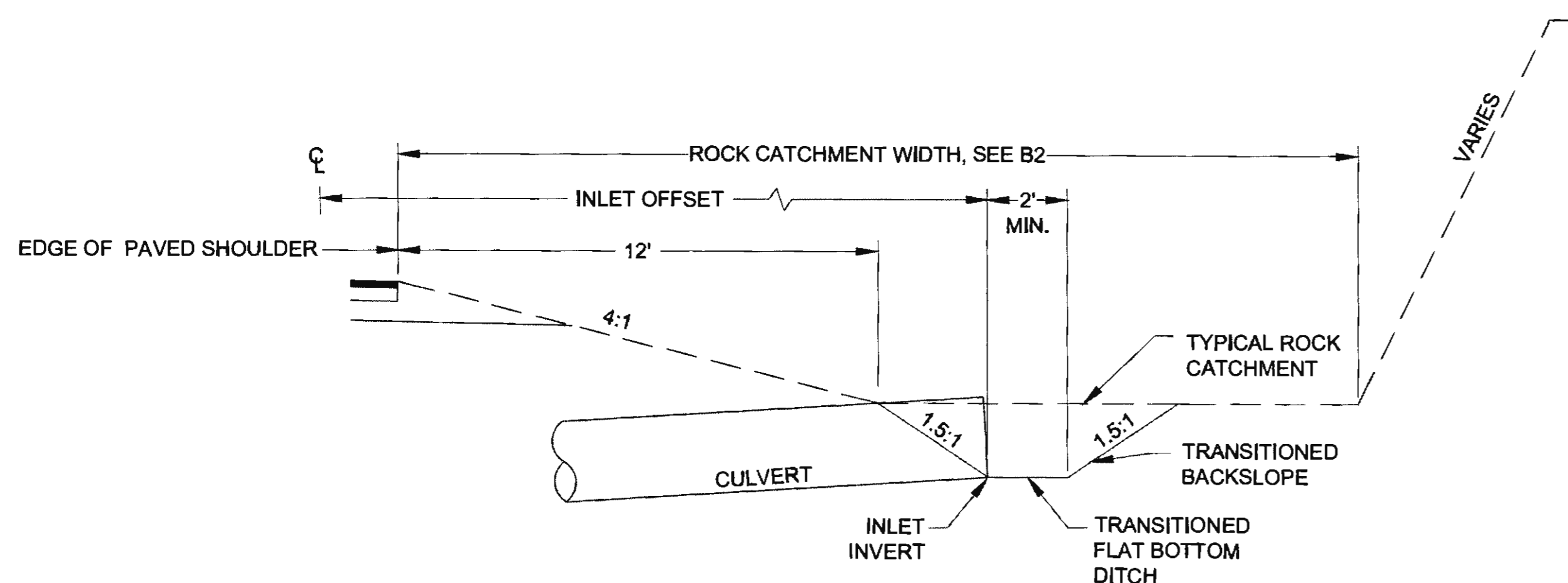
PLAN - ROCK BACKSLOPE



ELEVATION  
SOIL AND ROCK BACKSLOPE



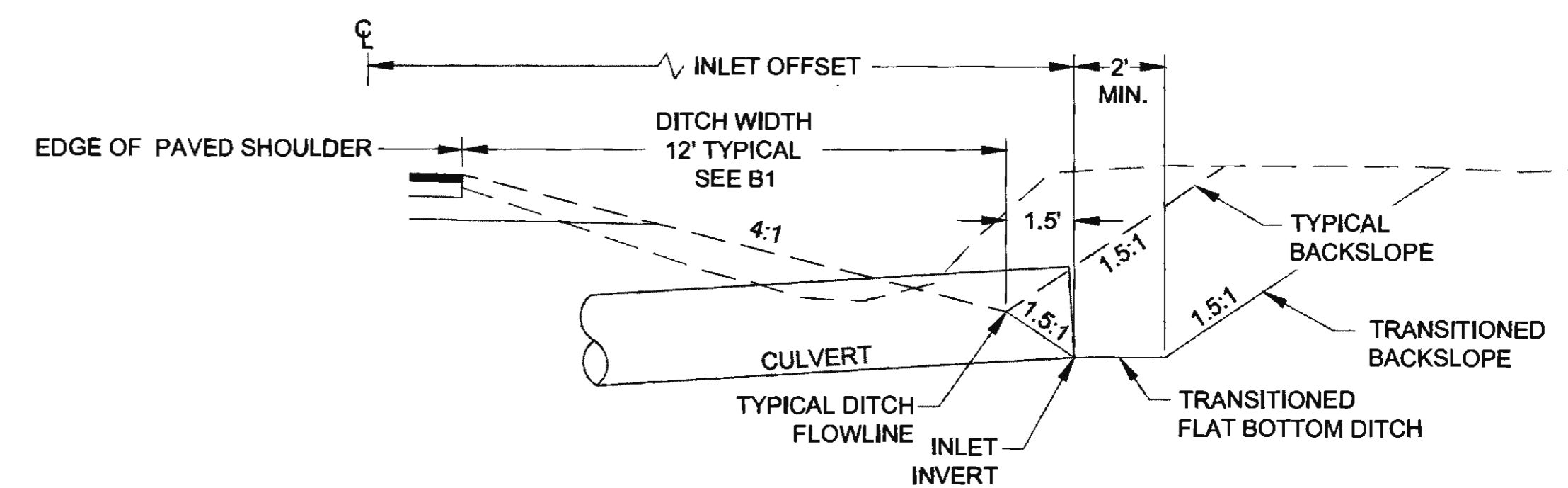
PLAN - SOIL BACKSLOPE



SECTION - ROCK BACKSLOPE

HILLSIDE INLET NOTES:

1. SOIL BACKSLOPE DITCH GRADE TRANSITIONS FROM V BOTTOM DITCH TO 2' FLAT BOTTOM DITCH.
2.  $D$  = CULVERT DIAMETER



SECTION - SOIL BACKSLOPE

HILLSIDE INLET DETAILS

<p>PLANS DEVELOPED BY: DOWL 5368 COMMERCIAL BLVD, JUNEAU, AK 99801 (907) 780-3533 #AECL848</p>		<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p><b>HAINES HIGHWAY RECONSTRUCTION MILEPOST 3.9 TO 12.2</b></p> <p><b>MISCELLANEOUS DETAILS</b></p>
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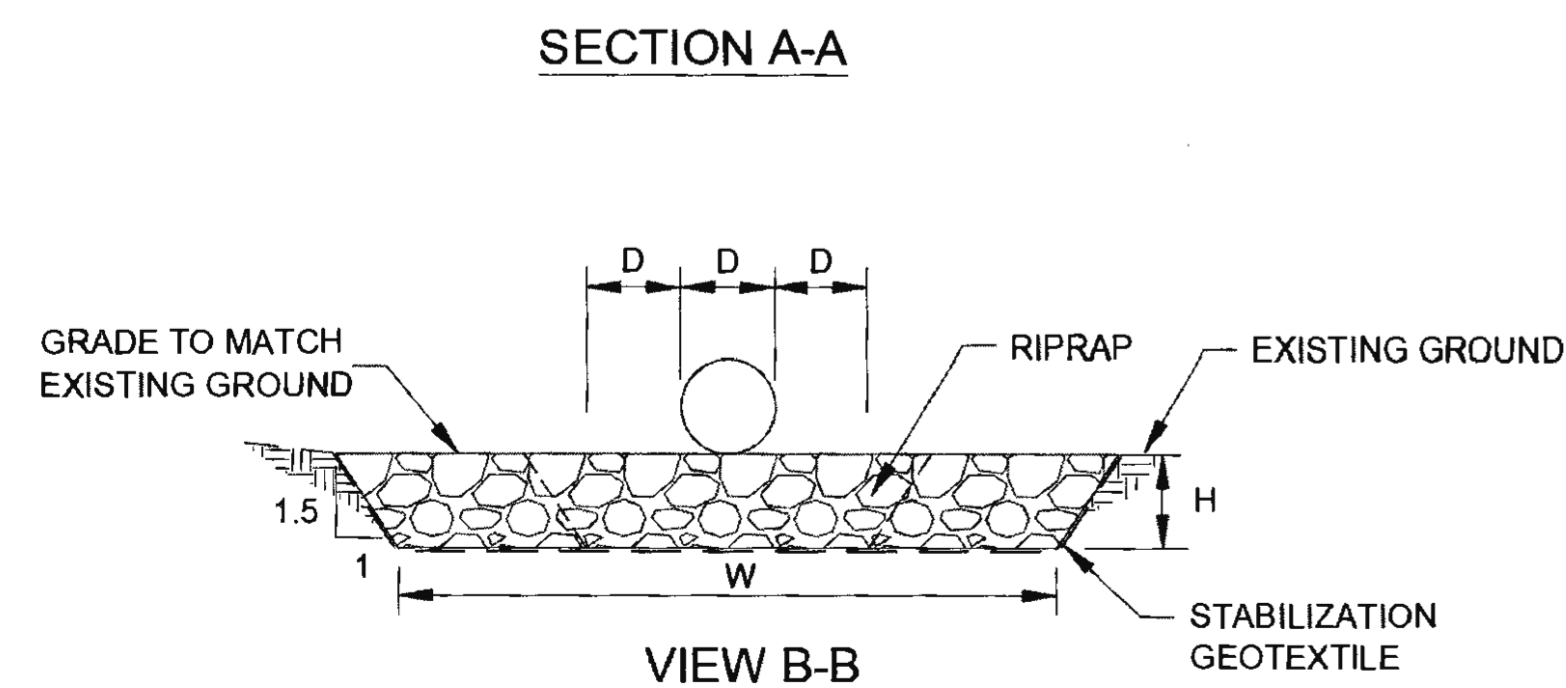
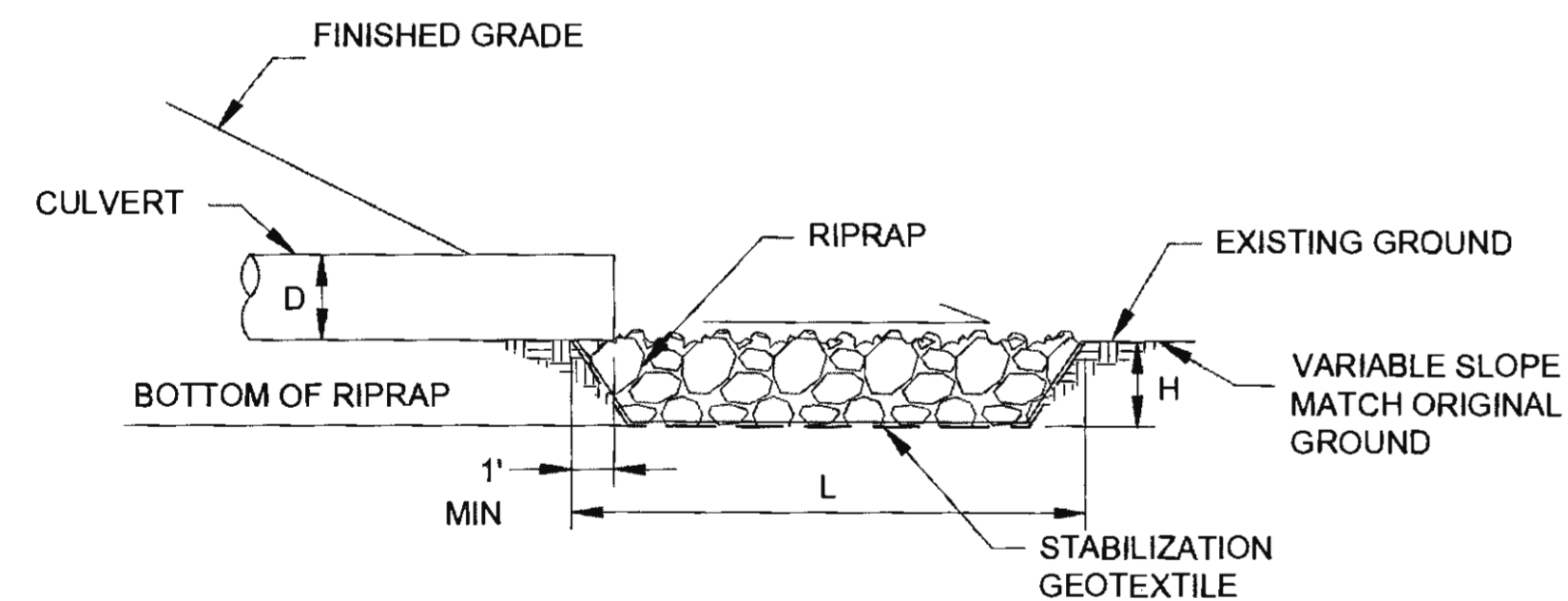
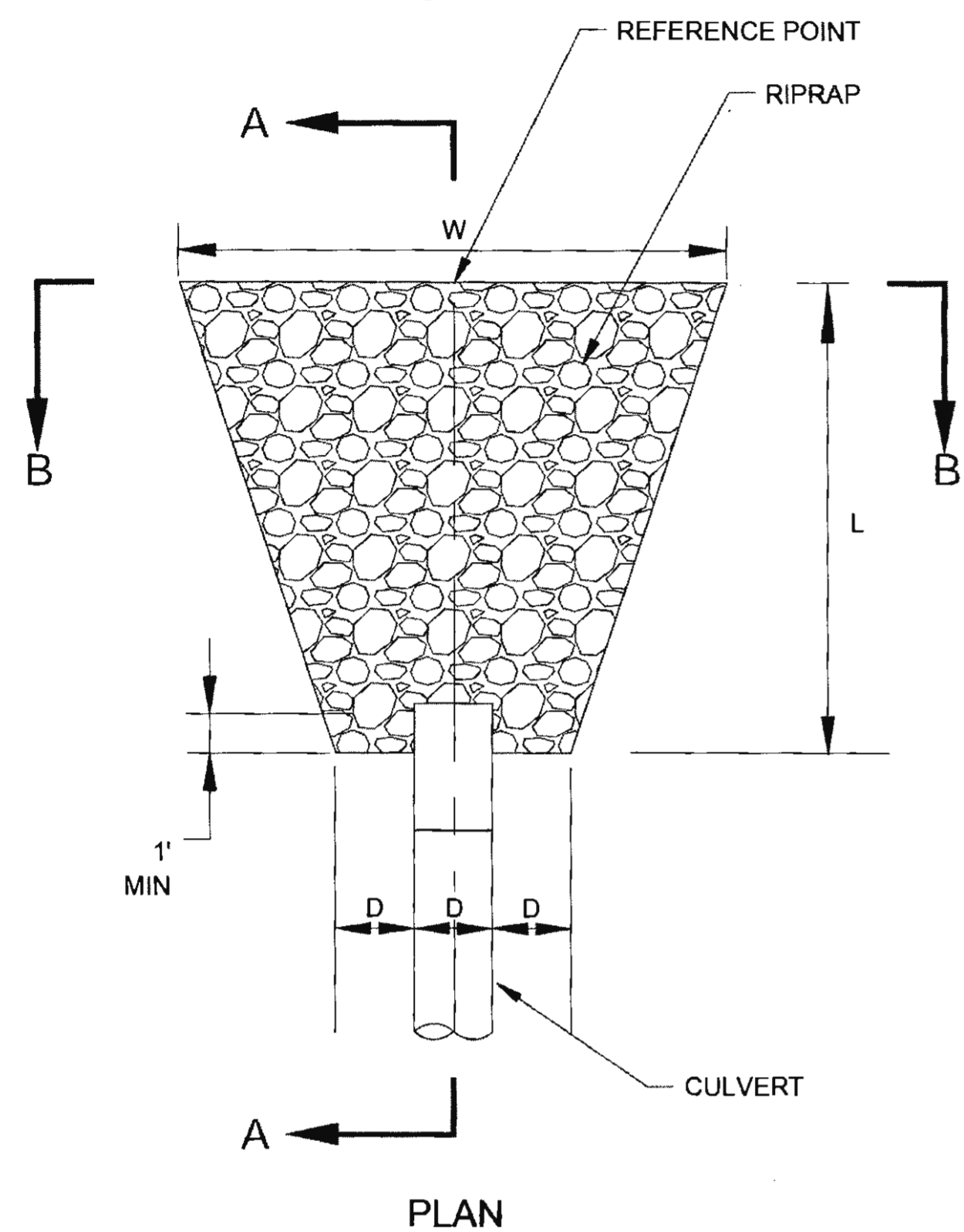
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 DATE 6/19/2017 15:38 LAYOUT JT  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
(1)	10-30-2017	ADDED NOTE #5	ALASKA	0965(035)/SFHWY00126	2017	J2	162

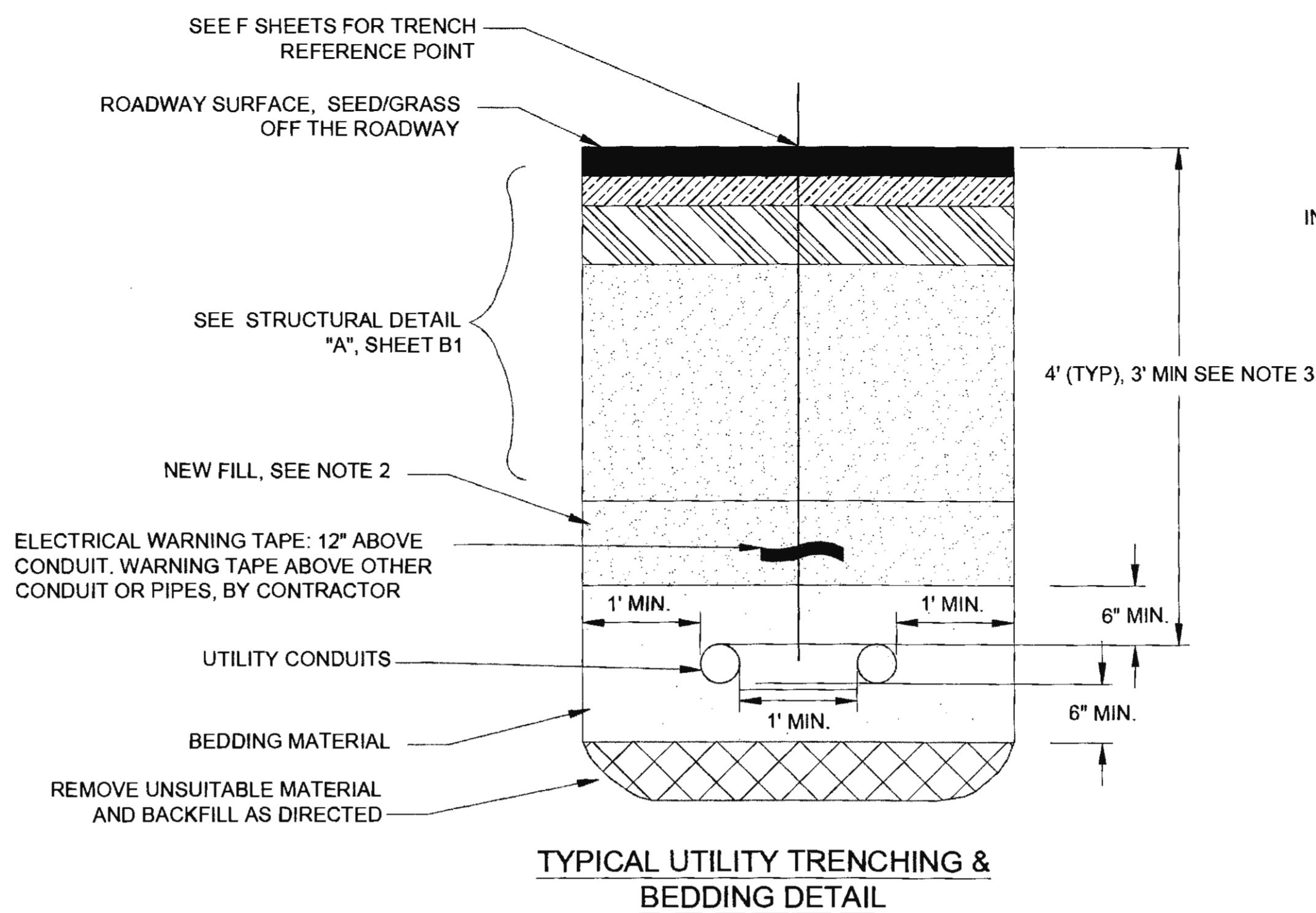
**NOTES:**

- FOR CULVERT LOCATIONS AND REPLACEMENT SEE D SHEETS.
- SEE RIPRAP LINED OUTLET SUMMARY ON THE D SHEETS.
- GRADE OUTLET APRON TO SLOPES PRESENT.
- FIELD FIT OUTLET APRONS AROUND ADJACENT CULVERTS.
- DETAIL IS APPLICABLE FOR NON-FISH PASSAGE CULVERTS.

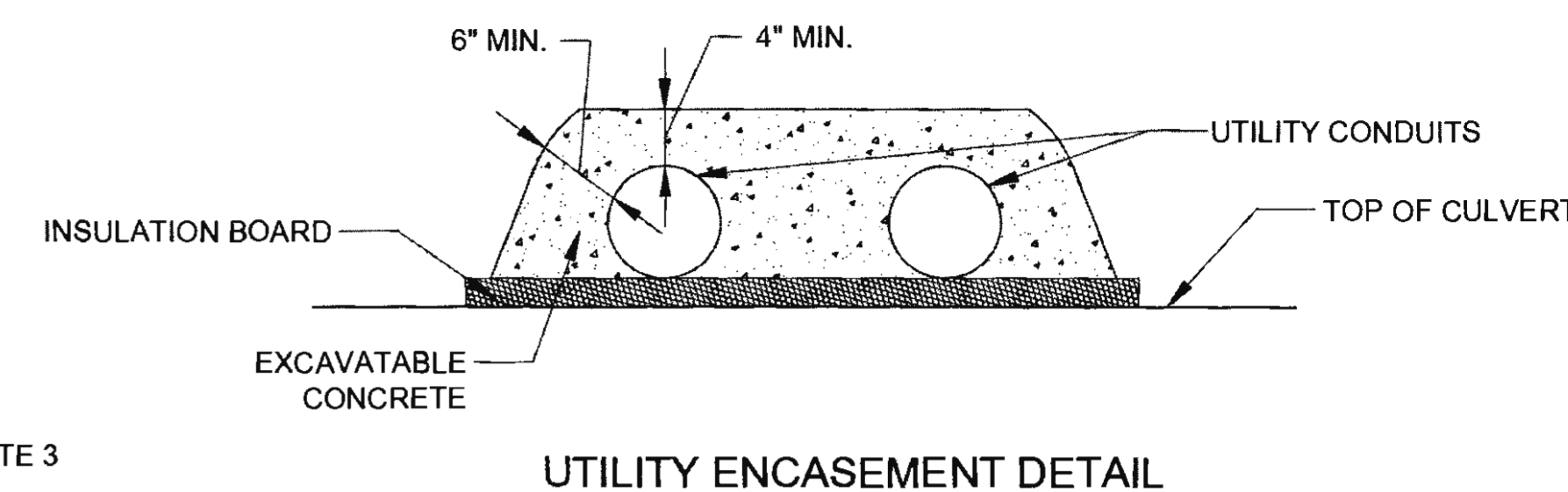
OUTLET APRON SUMMARY				
RIPRAP CLASS	D (IN)	L (FT)	W (FT)	H (FT)
I	18.0	9.0	10.0	2.0
I	24.0	12.0	14.0	2.0
I	36.0	18.0	21.0	2.0
II	48.0	28.0	30.7	3.0



RIPRAP LINED OUTLET APRON DETAIL



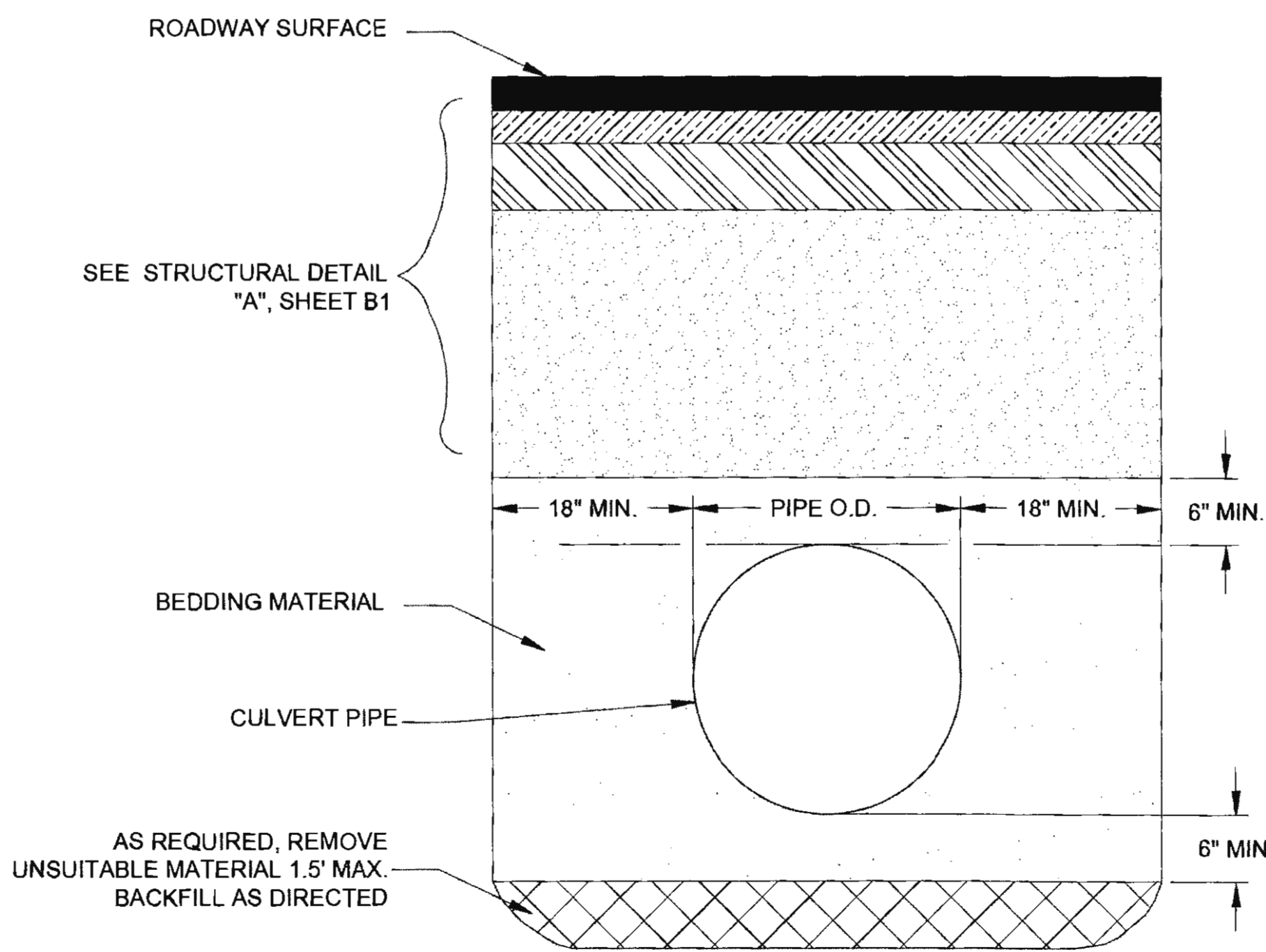
TYPICAL UTILITY TRENCHING & BEDDING DETAIL



UTILITY ENCASEMENT DETAIL

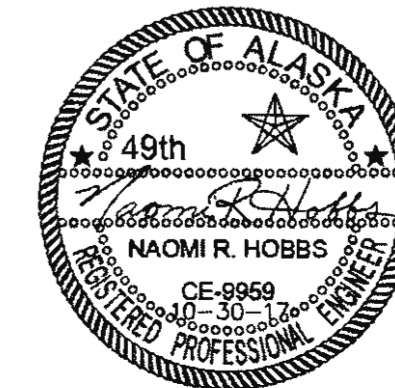
**UTILITY TRENCHING AND BEDDING NOTES:**

- ALL UTILITY TRENCH EXCAVATION, BEDDING AND BACKFILL WORK SHALL BE PERFORMED BY THE CONTRACTOR. UTILITY COMPANIES WILL FURNISH AND INSTALL CONDUIT AND CONDUCTORS. COORDINATE ALL TRENCH WORK AND CONDUIT INSTALLATION ACTIVITIES WITH THE UTILITY COMPANIES.
- EMBANKMENT, TYPE C MATERIAL WITHIN THE ROAD PRISM, USEABLE EXCAVATION OUTSIDE THE ROAD PRISM.
- WHEN UTILITY AND CULVERT ARE IN CONFLICT, UTILITY SHALL BE LOWERED 1 FOOT MINIMUM BELOW CULVERT. UTILITY MAY BE RAISED TO CLEAR CULVERT, BUT WILL REQUIRE UTILITY ENCASEMENT DETAIL IF COVER IS LESS THAN 3 FEET.



CULVERT BEDDING/BACKFILL DETAIL

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.,  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2  
MISCELLANEOUS  
DETAILS

FILE Q:\24\1850-01\65CAD\MP 3-12 PSE\J SHEETS\J1-J8 MISC DETS.dwg DATE 10/30/2017 10:25 LAYOUT J2 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

FILE: 0:\24\61850-01\65CAD\MP 3-12 PSE\1 SHEETS\1-18 MISC DETS.dwg  
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 DESIGNED: N. HOBBS CHECKED: S. NOBLE DRAFTED: S. TYLER

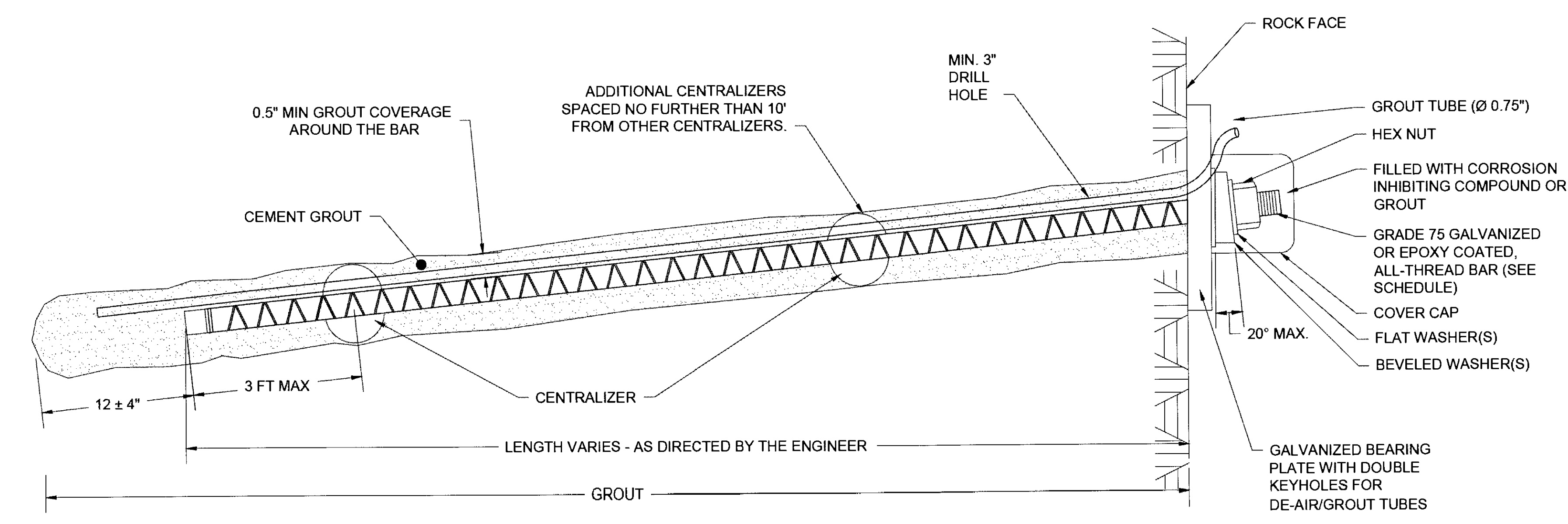
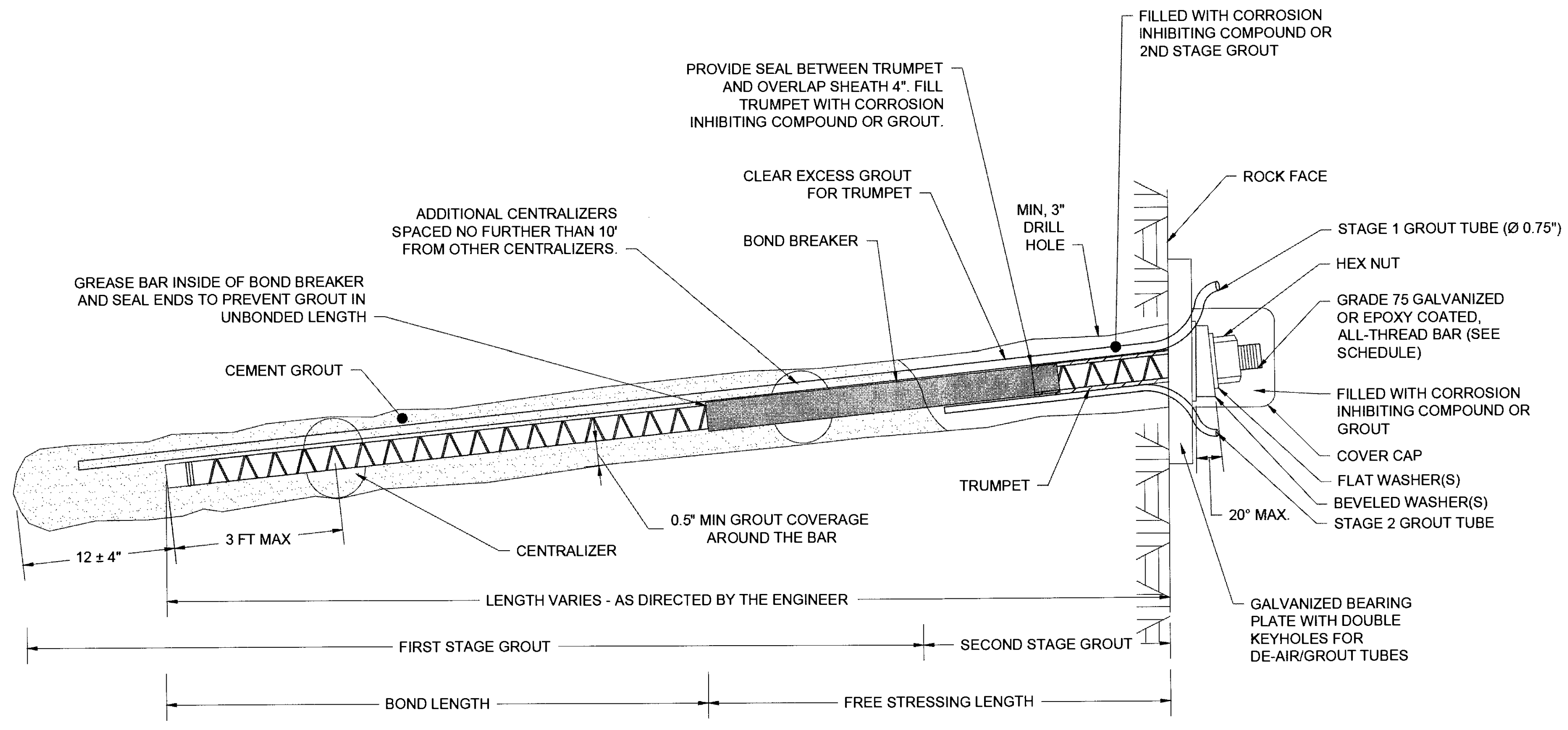
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	J3	162

TYPE	BOND LENGTH (MIN)	FREE STRESSING LENGTH (MIN)	GRADE	BAR SIZE
ROCK BOLTS	5 FEET	5 FEET	75	MIN #8
ROCK DOWEL	VARIES	N/A	75	MIN #8

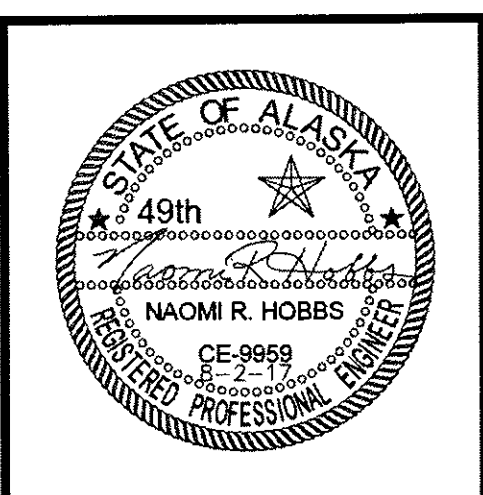
TYPE	TEST LOAD	LOCK-OFF LOAD
ROCK BOLTS (#8)	47 KIPS	35 KIPS
ROCK DOWEL (#8)	10 KIPS	10 KIPS

**NOTES**

- BOND LENGTH ASSUMES 3 INCH MINIMUM HOLE DIAMETER DRILLED USING ROTARY PERCUSSION TECHNIQUES. CONTRACTOR IS RESPONSIBLE FOR DRILLING TECHNIQUE AND HOLE DIAMETER FOR ADEQUATE GROUT COVER AND RETURNS.
- LENGTH, LOCATION, AND INCLINATION OF ROCK BOLTS AND ROCK DOWELS WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE REGIONAL ENGINEERING GEOLOGIST, BUT WILL BE NO LESS THAN 10 FEET AND WILL NOT EXCEED 40 FEET.
- MINIMUM GRADE 75 AND #8 GALVANIZED OR EPOXY-COATED BARS REQUIRED. CONTRACTOR MAY USE HIGHER GRADE OR LARGER BAR PROVIDED IT IS ABLE TO OBTAIN THE TEST LOAD WITH A SUFFICIENTLY SIZED HOLE. EPOXY COATED BARS ARE ALLOWED ONLY IF CHIPPED AND DAMAGE AREAS ARE REPAIRED PRIOR TO INSTALLATION.
- CONTRACTOR SHALL HAVE ROCK BOLTS AND ROCK DOWELS ON HAND AS DESCRIBED IN THE GENERAL BLASTING PLAN.
- ORIENT THE KEYHOLES ON BEARING PLATE UPWARD FOR MAXIMUM GROUT RETENTION. USE 8X8 DOUBLE KEY HOLE, GALVANIZED, BEARING PLATES SUPPLIED BY THE ROCK BOLT MANUFACTURER.
- ALL STEEL ACCESSORIES SHALL BE HOT DIP GALVANIZED.
- CEMENT GROUT SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI AT THE TIME THE ANCHOR IS STRESSED.
- GROUT TO FILL ROCK BOLT BOND LENGTH AND HALF OF UNBONDED LENGTH. AS NECESSARY CLEAR EXCESS GROUT TO ALLOW TRUMPET PLACEMENT.
- ROCK BOLTS SHALL NOT BE TENSIONED UNTIL THE GROUT HAS CURED FOR A MINIMUM OF 24 HOURS AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.



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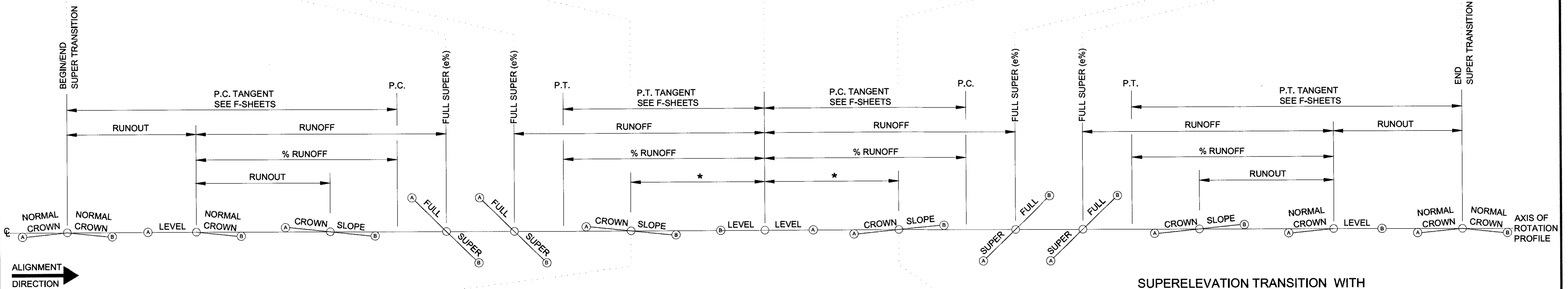
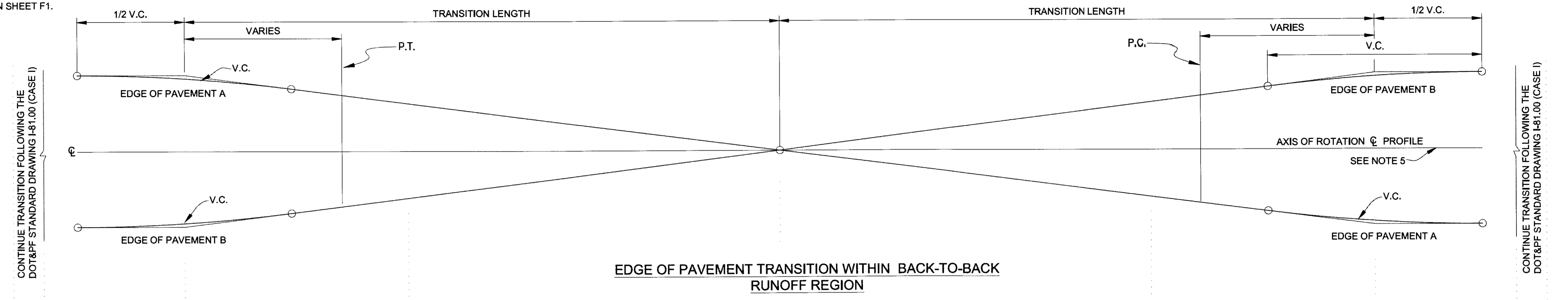


STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2  
**MISCELLANEOUS  
DETAILS**

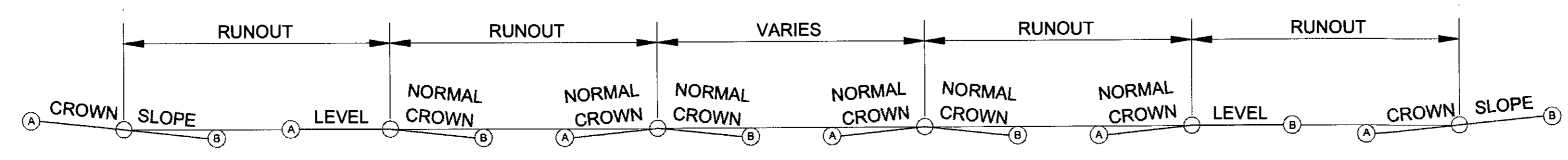
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	J4	162

**GENERAL NOTES**

1. THE SUPERELEVATION DETAIL TRANSITION WITH BACK-TO-BACK RUNOFF TO BE USED WHERE TWO CONSECUTIVE P.T. AND P.C. TANGENTS HAVE RUNOUT LENGTHS OF "0" FEET AS SHOWN ON THE F-SHEETS.
2. WIDENING FOR GUARDRAIL, CURVATURE, OR PULLOUTS WILL NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.
3. SUPERELEVATION SHALL BE BUILT INTO THE SUBGRADE AND CARRIED THROUGH THE SHOULDERS.
4. MINIMUM VERTICAL CURVE (V.C.) LENGTH IN FEET SHALL BE THE NUMERICAL VALUE OF THE DESIGN SPEED IN M.P.H.
5. FROM STATION 182+00.00 TO STATION 184+03.97 THE AXIS OF ROTATION FOLLOWS THE CROWN LINE EXCEPTION. SEE CROWN LINE ON SHEET F1.



\* [P.C./P.T. RUNOFF LENGTH X (2% / e%)]



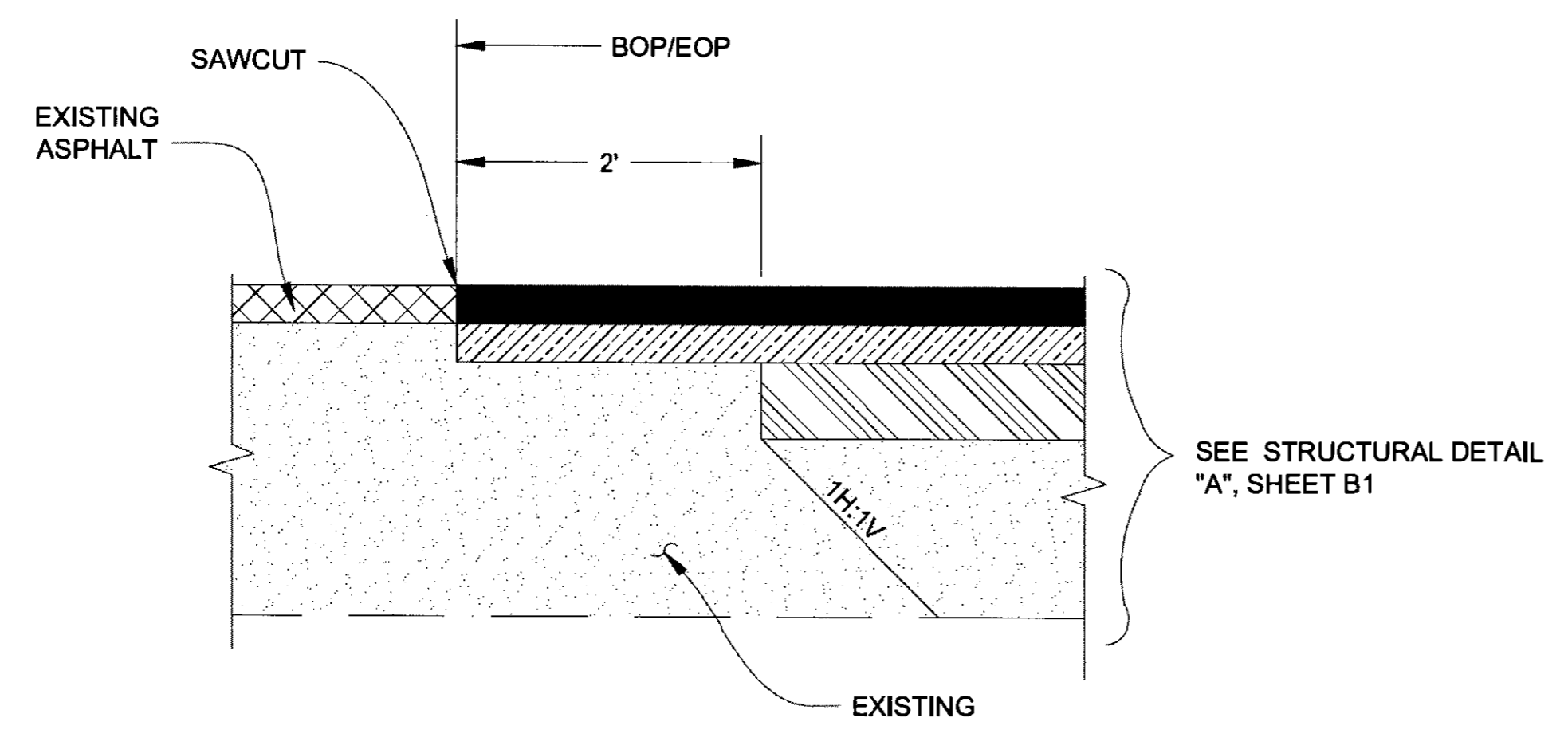
REFER TO THE DOT&PF STANDARD DRAWING I-81.00 (CASE I) FOR EDGE OF PAVEMENT TRANSITION

<p>PLANS DEVELOPED BY: DOWL 5368 COMMERCIAL BLVD. JUNEAU, AK 99801 (907) 780-3533 #AECL848</p>		<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES</p> <p><b>HAINES HIGHWAY RECONSTRUCTION MILEPOST 3.9 TO 12.2</b></p> <p><b>MISCELLANEOUS DETAILS</b></p>
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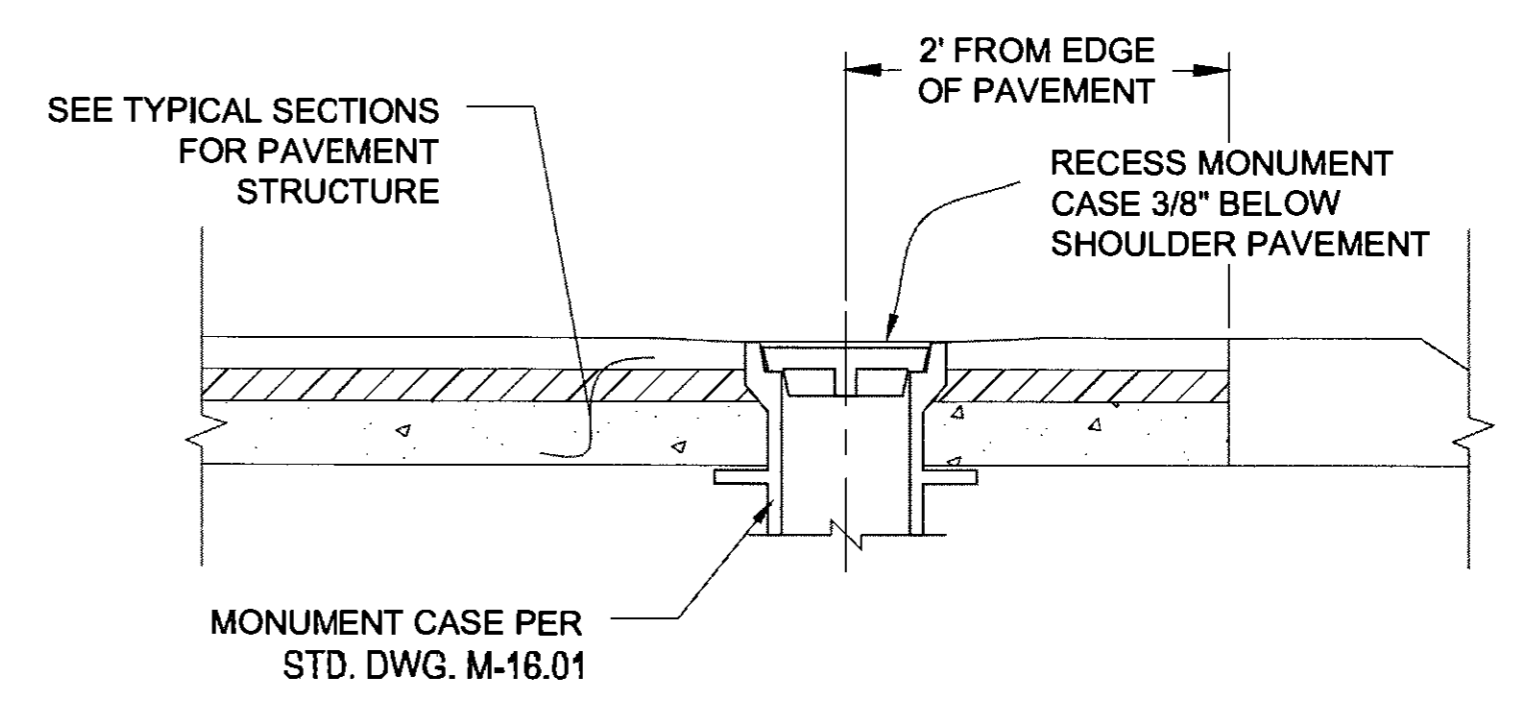
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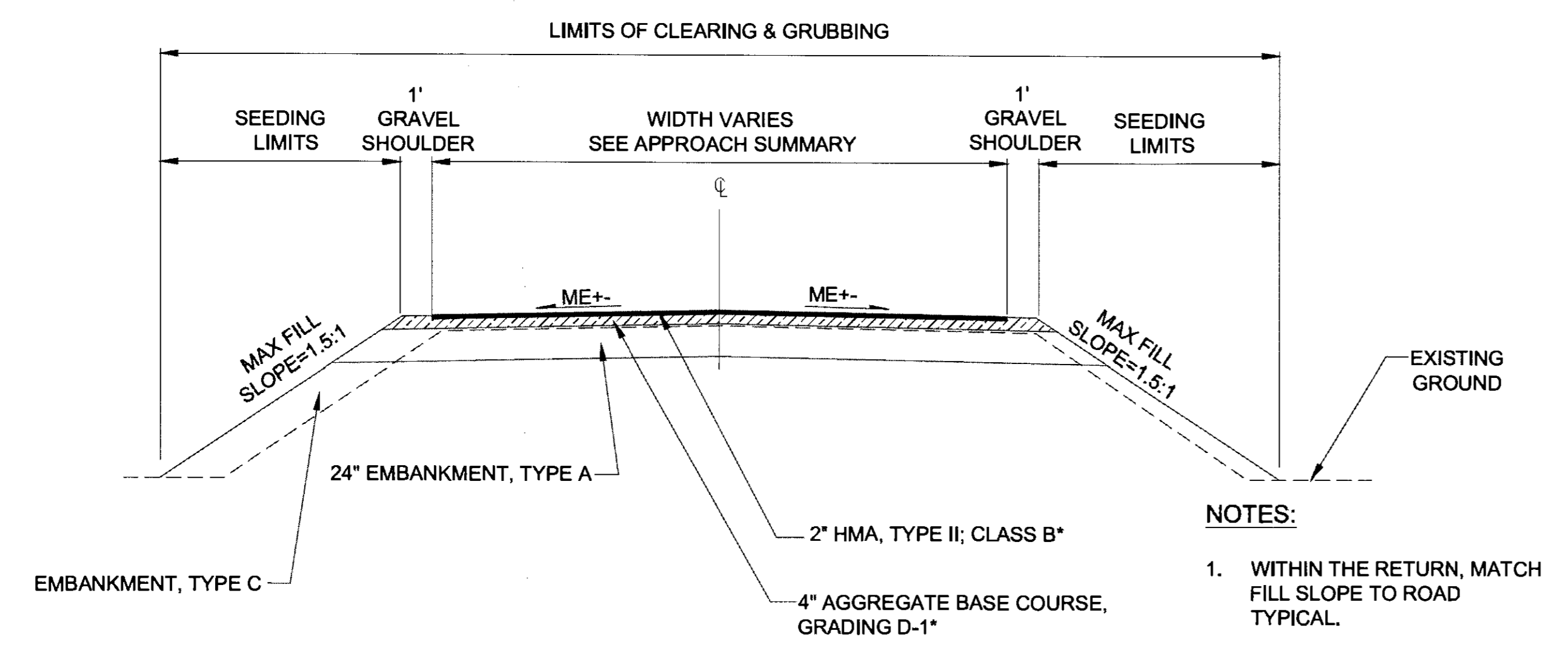
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	J5	162



**PAVEMENT MATCH JOINT DETAIL  
BEGIN/END OF PROJECT**

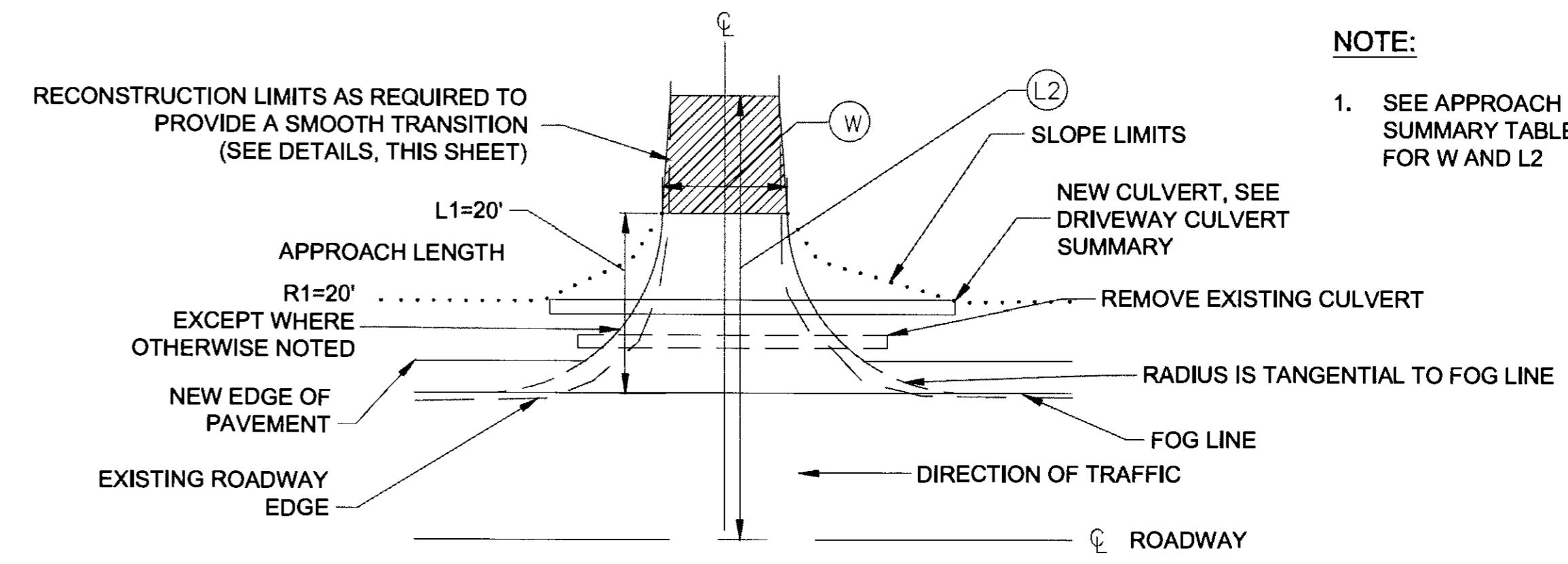


**MONUMENT ENCASEMENT DETAIL**



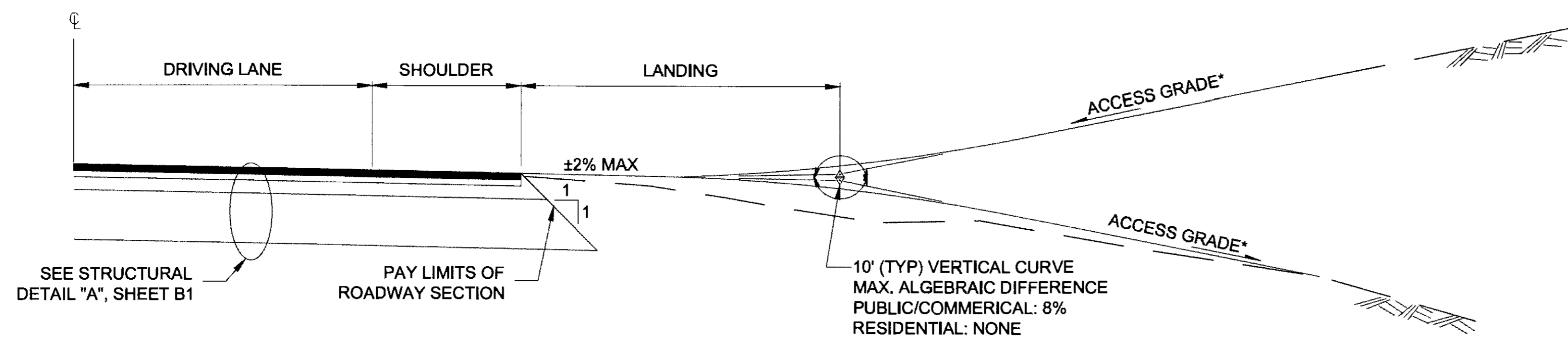
**APPROACH  
TYPICAL SECTION**

- NOTES:**
1. WITHIN THE RETURN, MATCH FILL SLOPE TO ROAD TYPICAL.
  2. \*FOR GRAVEL DRIVEWAYS USE 5\"/>



**APPROACH / APRON  
PLAN VIEW**

- NOTE:**
1. SEE APPROACH SUMMARY TABLE ON D7 FOR W AND L2

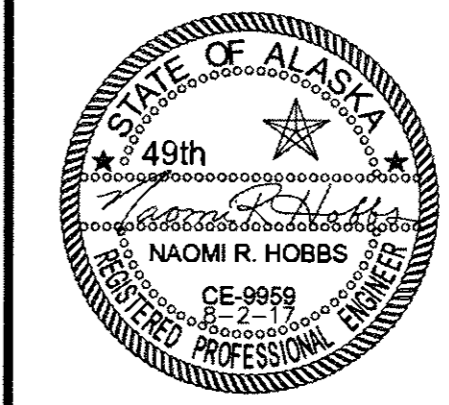


**APPROACH  
TYPICAL PROFILE**

\*ACCESS SLOPE MAX. 15%

LANDING TABLE	
TYPE	LENGTH
RESIDENTIAL	10'
COMMERCIAL/PUBLIC	30'

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD,  
JUNEAU, AK 99801  
(907) 780-3533  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

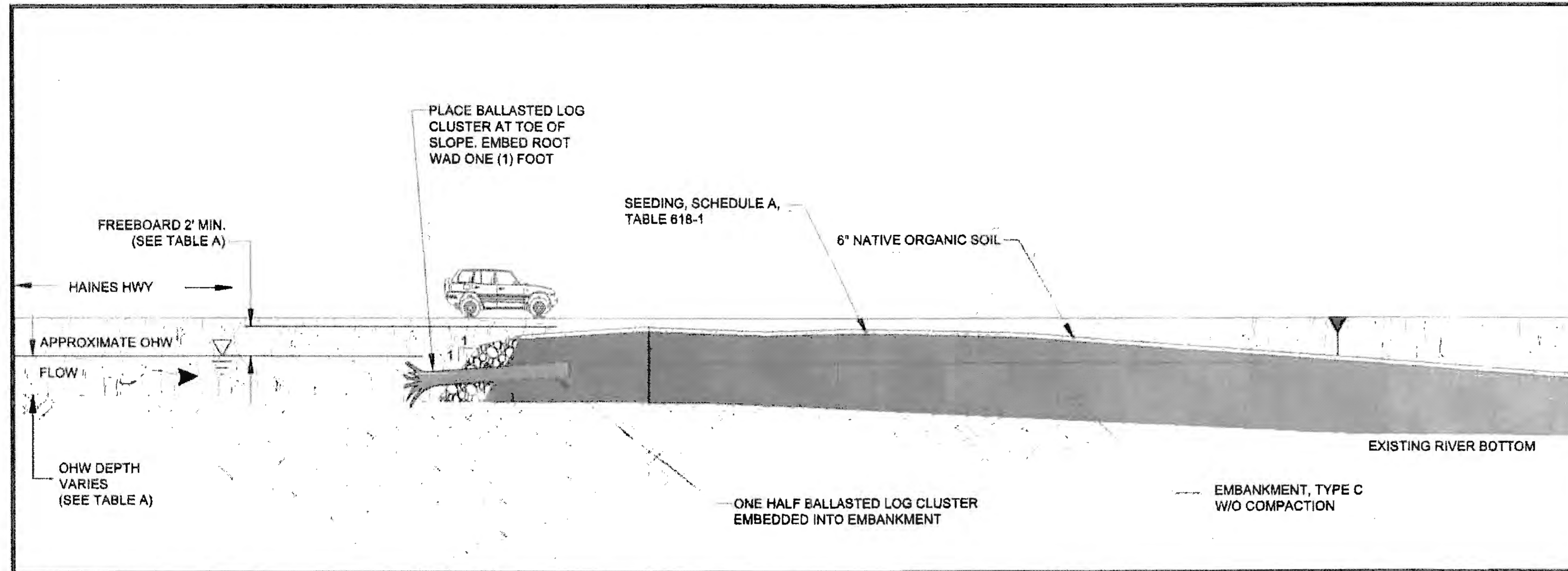
**HAINES HIGHWAY RECONSTRUCTION  
MILEPOST 3.9 TO 12.2**

**MISCELLANEOUS  
DETAILS**



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
(1)	10-30-2017	REVISED CALL OUT	ALASKA	0965(035)/SFHWY00126	2017	J6	162

CONFIGURATION A (RP-A)



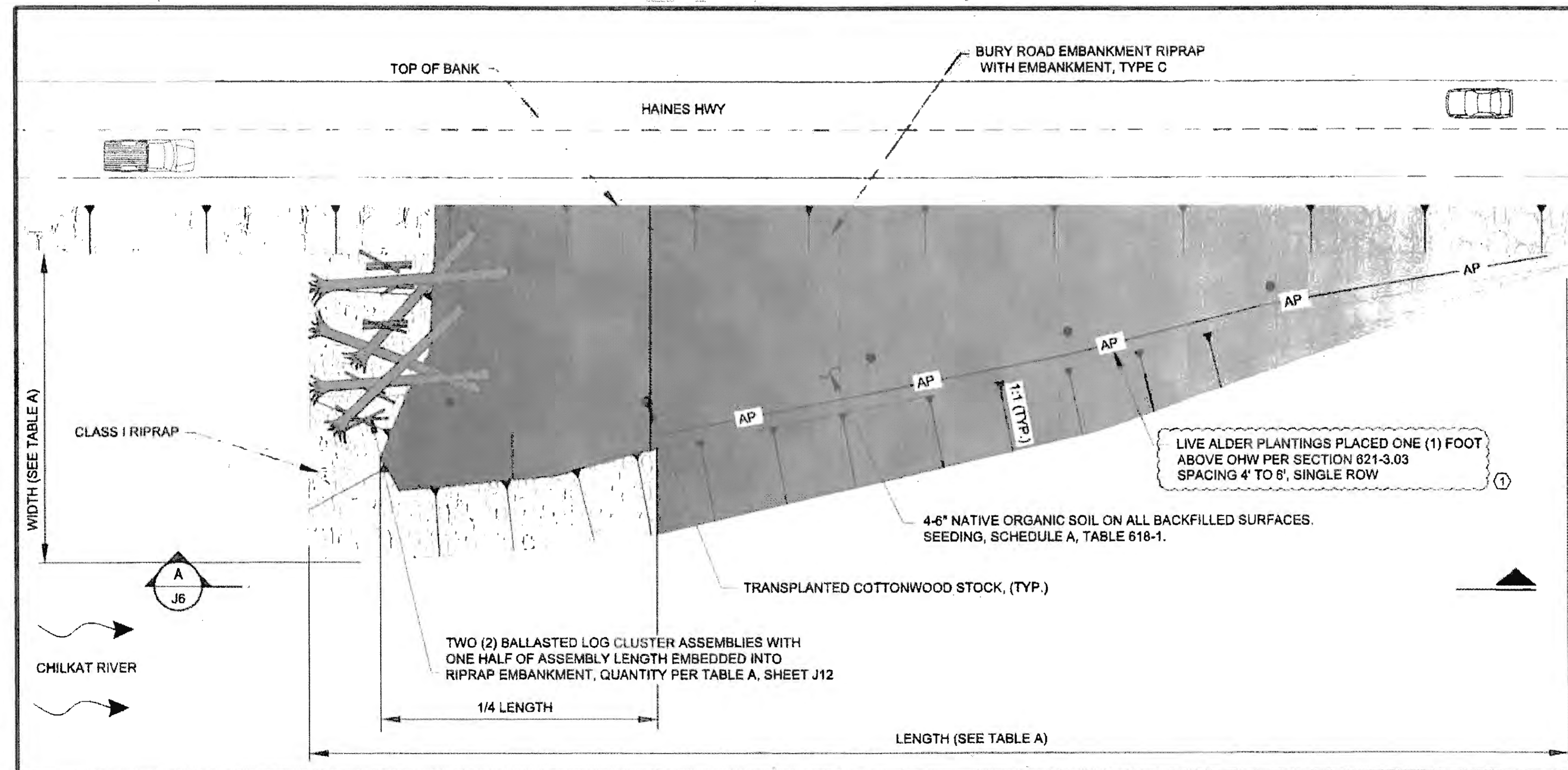
LEGEND:

	SLOPE LINE
	TYPE C BACKFILL
	EXISTING GROUND
	LOG MEMBER
	EXISTING GRADE
	CLASS I RIPRAP

ELEVATION A-A

SCALE: NTS

1  
J6



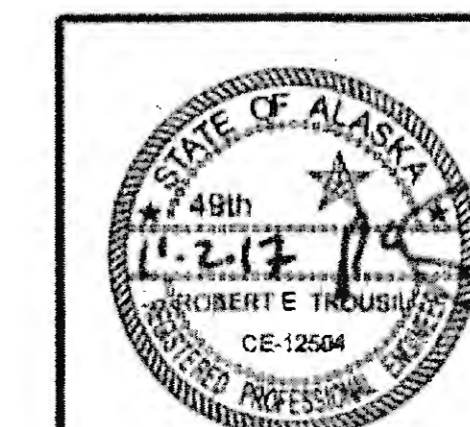
PLAN VIEW

SCALE: NTS

2  
J6

LOCATION TABLE, CONFIGURATION A

STRUCTURE NO.	BEGIN STA.	END STA.
3	298+25	300+25
15	415+80	417+20
17	435+80	437+75
18	441+00	443+10



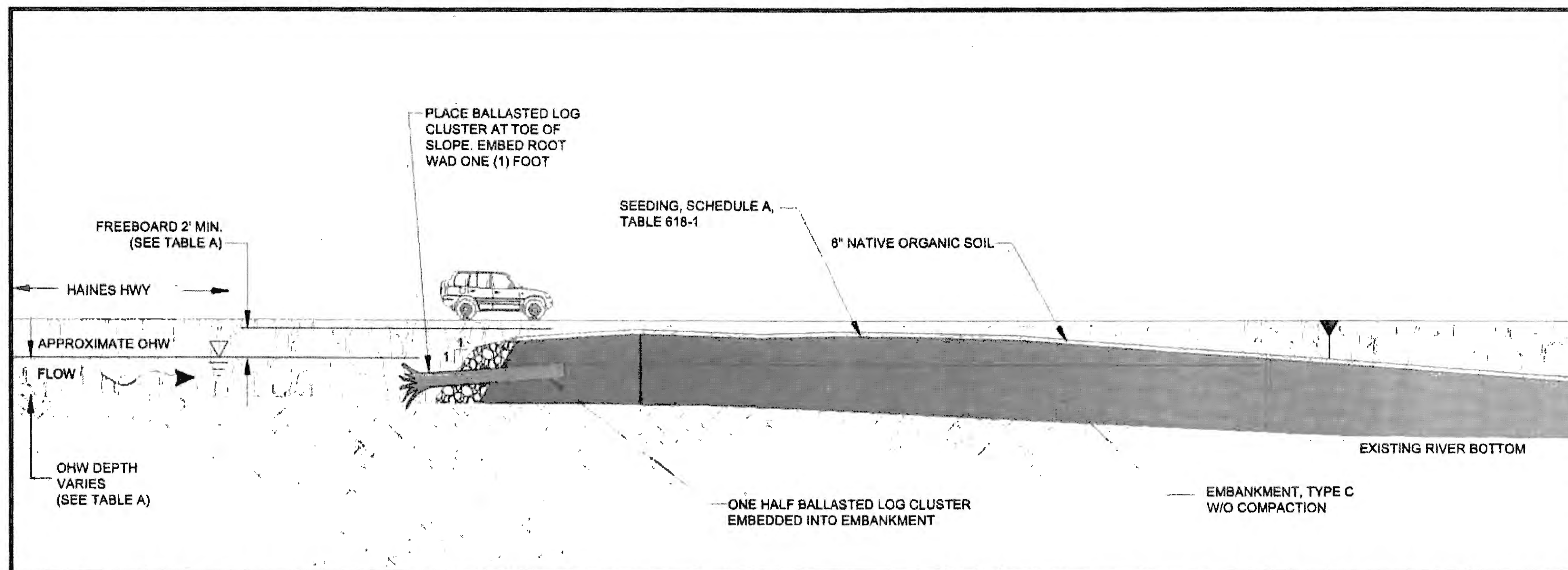
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
(907) 465-1763

**HAINES HIGHWAY RECONSTRUCTION  
MP 3.9 TO MP 12.2, PHASE 1  
MISCELLANEOUS  
DETAILS**

FILE: G:\24\1850-01\65010\MP 3-12\FSE\J SHEETS\HMS HWY J6-J12 SHEETS\Final\_060217.dwg DATE: 10/30/2017 10:25 LAYOUT: J6 DESIGNED: N. HOBBS CHECKED: S. NIBLE DRAWN: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	10-30-2017	REVISED CALL OUT	ALASKA	0965(035)/SFHWY00126	2017	J7	162

CONFIGURATION B (RP-B)

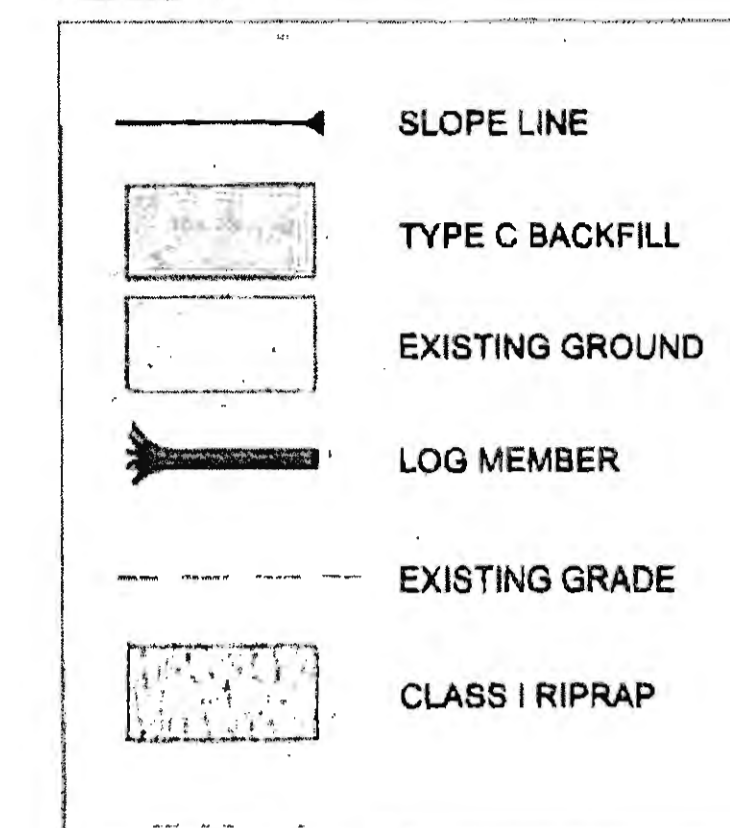


ELEVATION A-A

SCALE: NTS

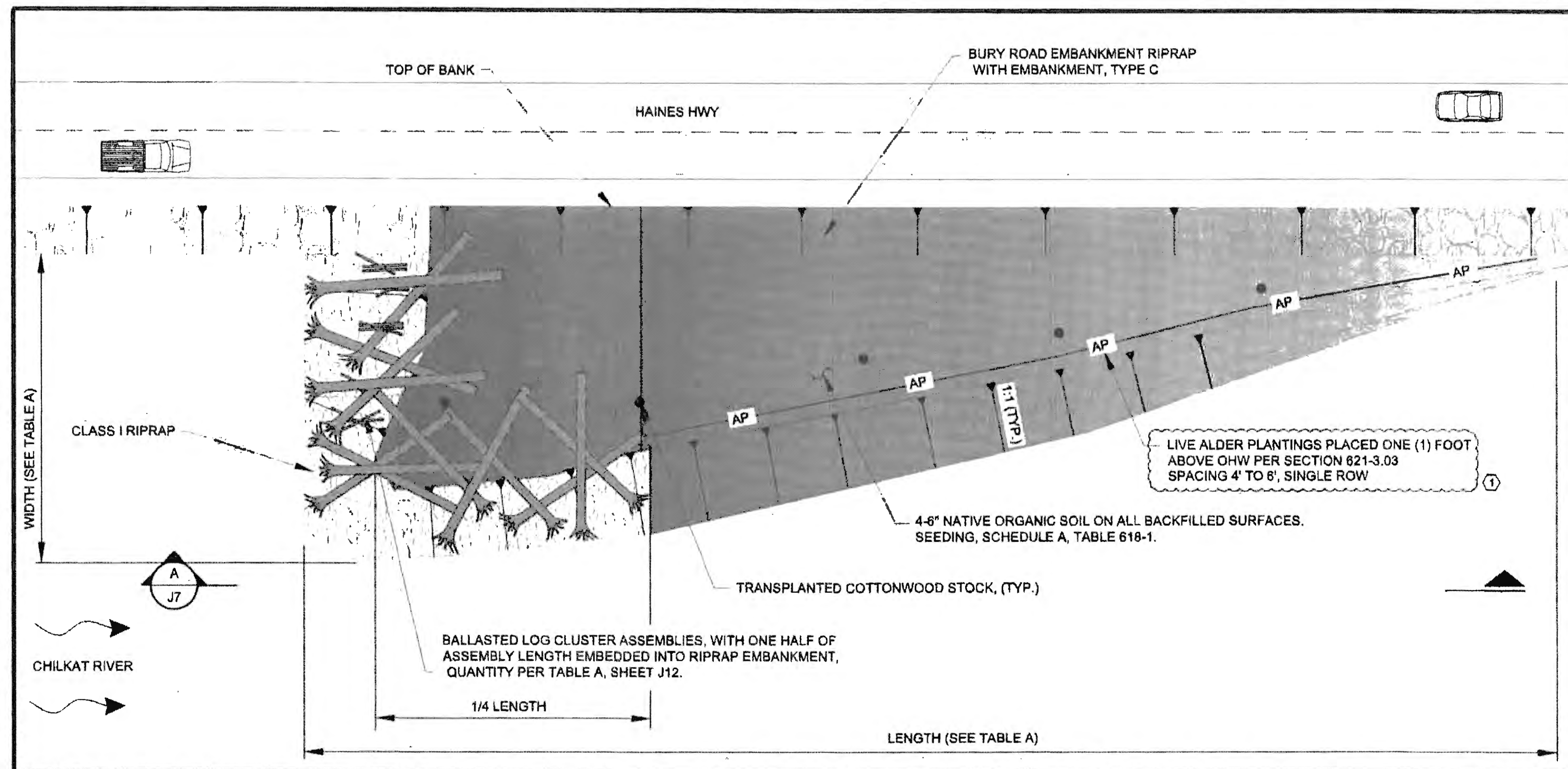
1  
J7

LEGEND:



LOCATION TABLE, CONFIGURATION B

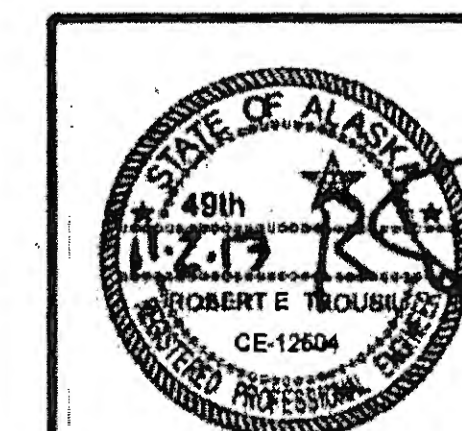
STRUCTURE NO.	BEGIN STA.	END STA.
7	354+80	356+40
8	362+00	363+00



PLAN VIEW

SCALE: NTS

2  
J7



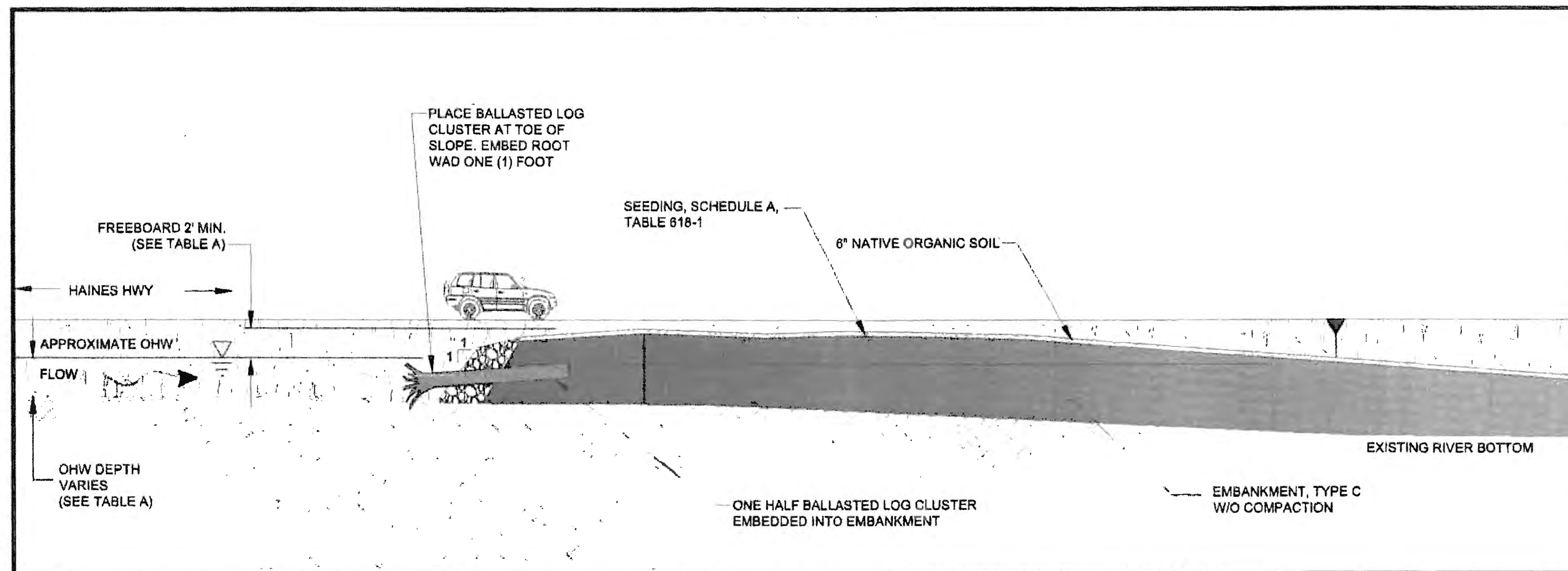
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 8850 GLACIER HIGHWAY, JUNEAU, AK 99801  
 (907) 465-1763

**HAINES HIGHWAY RECONSTRUCTION  
 MP 3.9 TO MP 12.2, PHASE 1  
 MISCELLANEOUS  
 DETAILS**

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 DESIGNED N. HOBBS CHECKED S. MOBLE DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
①	10-30-2017	REVISED CALL OUT	ALASKA	0965(035)/SFHWY00126	2017	J8	162

CONFIGURATION C (RP-C)

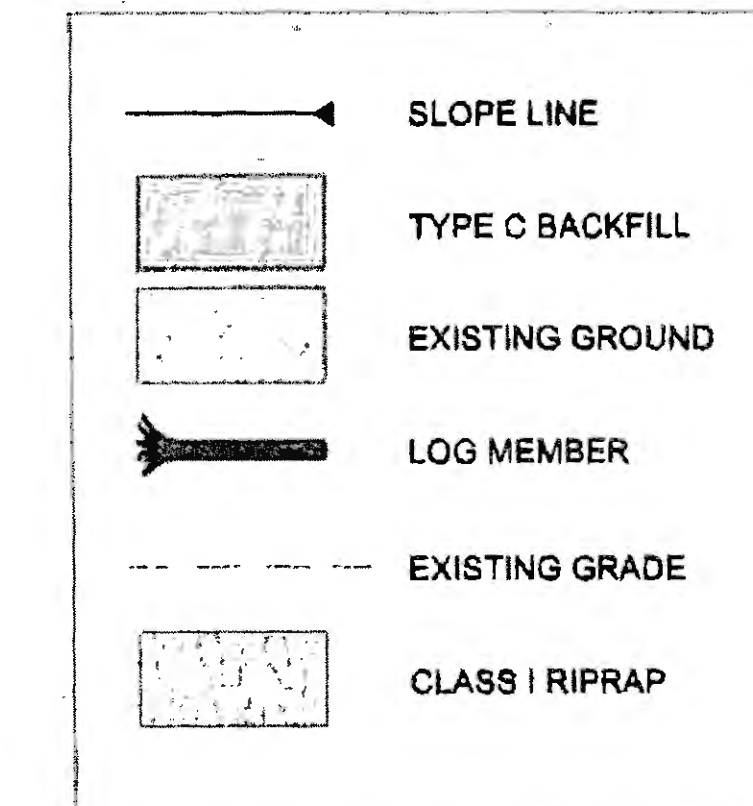


ELEVATION A-A

SCALE: NTS

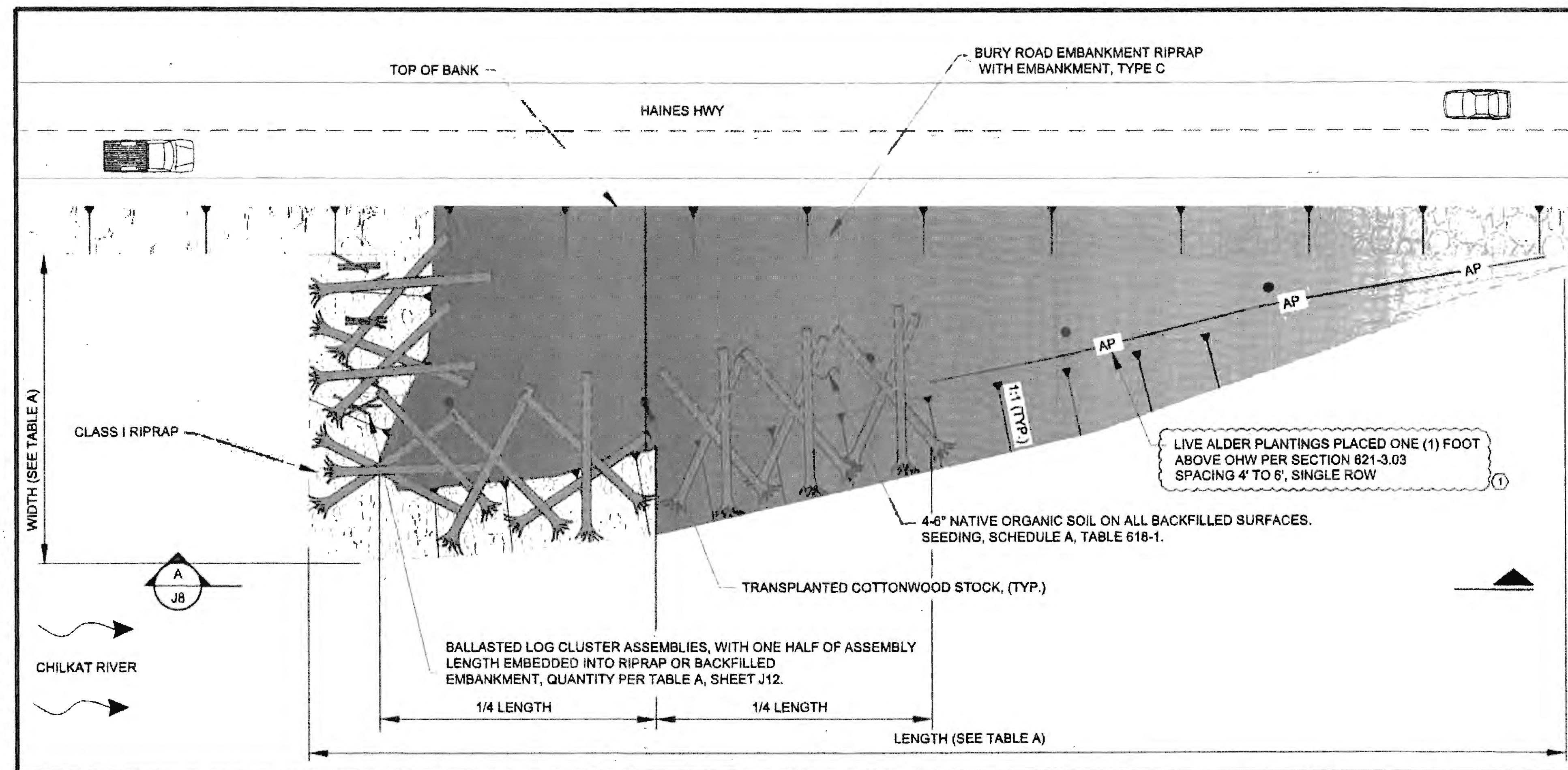
1  
JB

LEGEND:



LOCATION TABLE, CONFIGURATION C

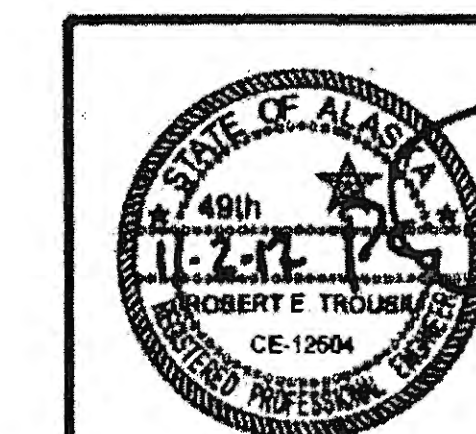
STRUCTURE NO.	BEGIN STA.	END STA.
12	384+00	384+50
25	497+80	500+00



PLAN VIEW

SCALE: NTS

2  
JB



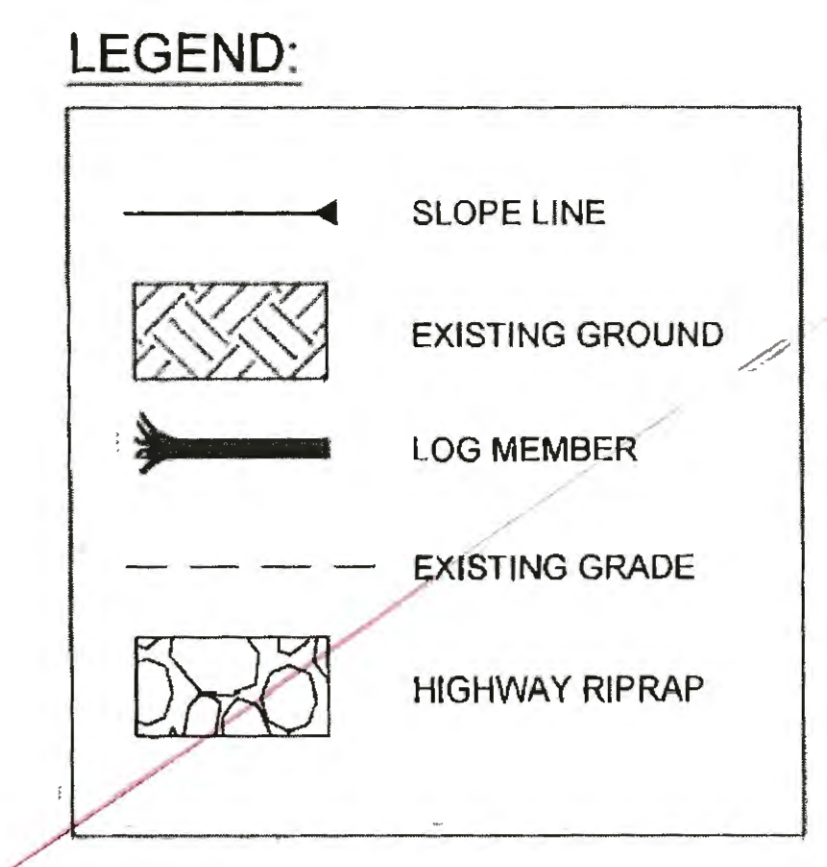
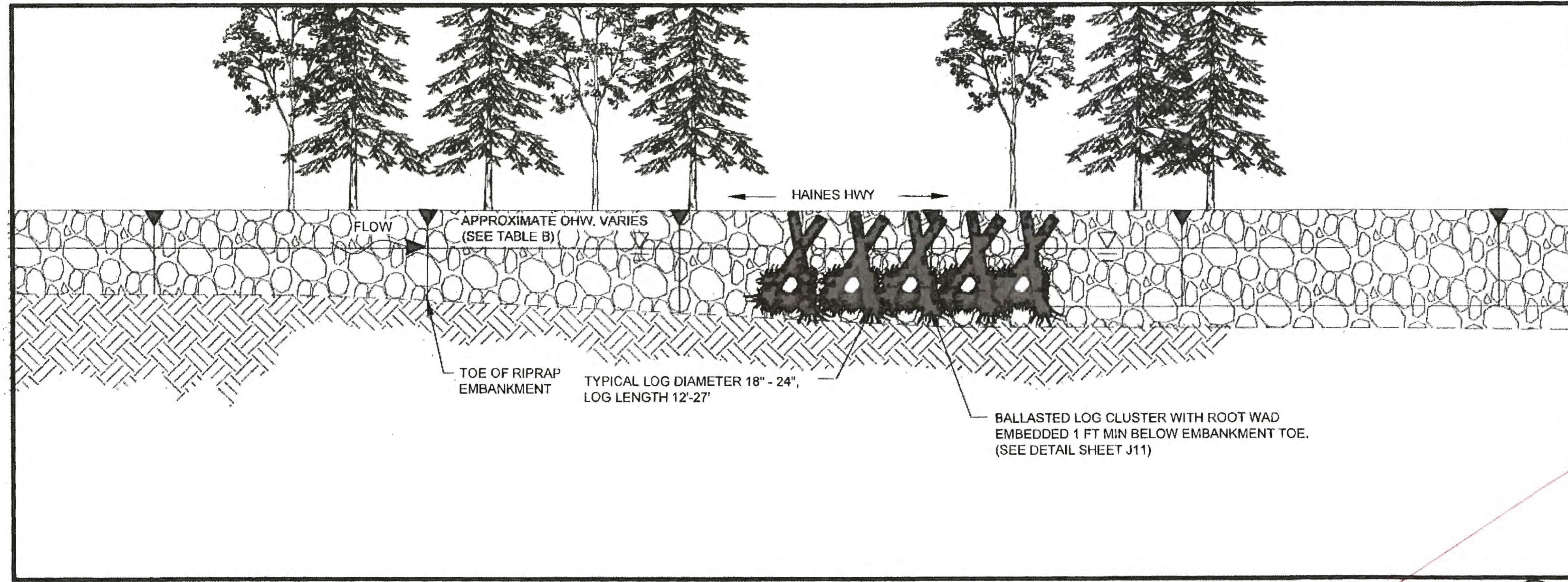
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
(907) 465-1763

**HAINES HIGHWAY RECONSTRUCTION  
MP 3.9 TO MP 12.2, PHASE 1  
MISCELLANEOUS  
DETAILS**

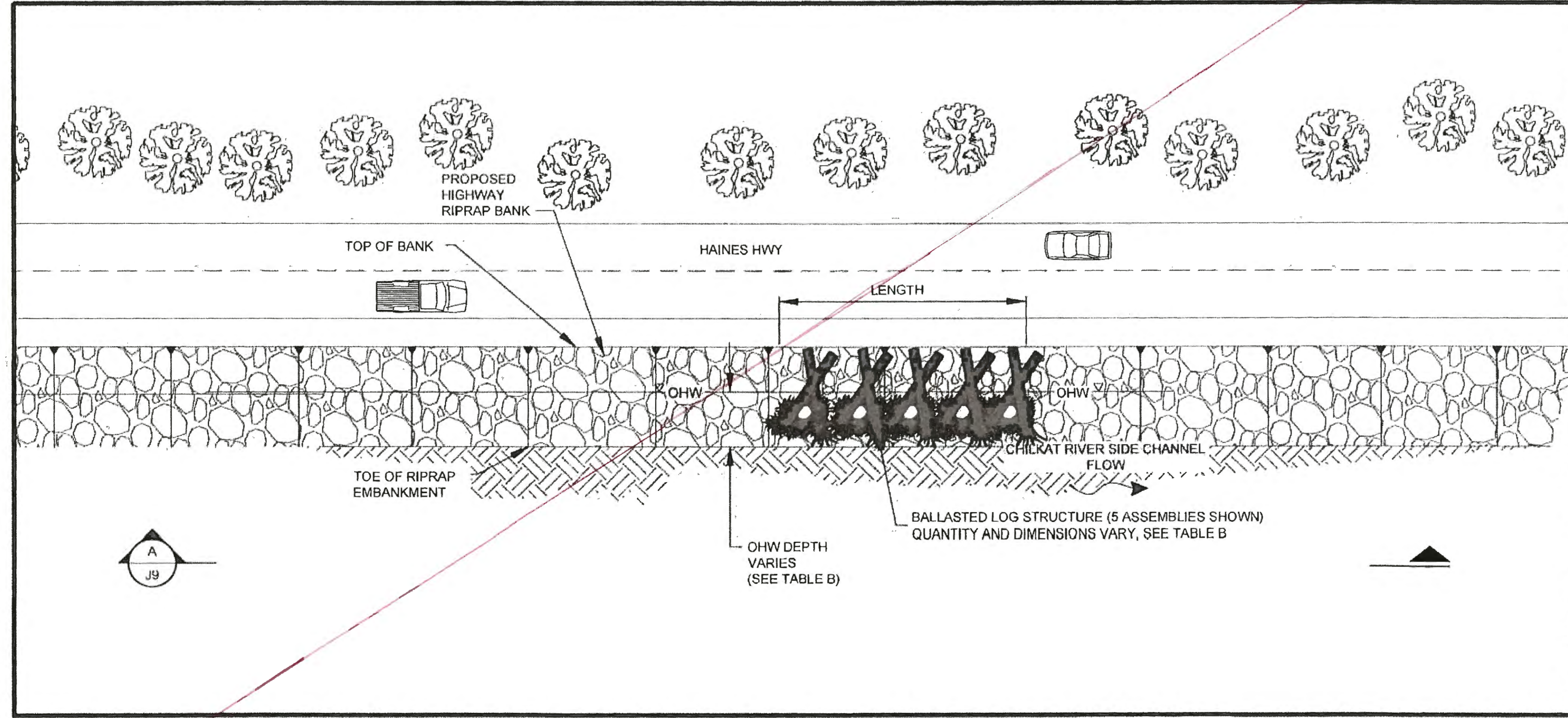
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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	J9	162

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 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

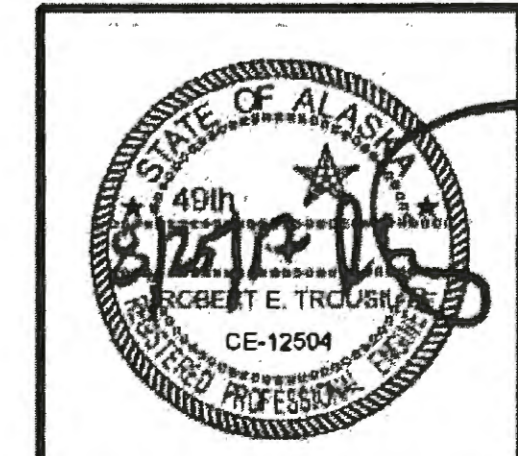


**ELEVATION A-A**  
SCALE: NTS



**PLAN VIEW**  
SCALE: NTS

**NOTES:**  
 1) NUMBER OF BALLASTED LOG CLUSTER ASSEMBLIES VARY BY LOCATION. SEE TABLE B. 2) Delete entire page per CD3



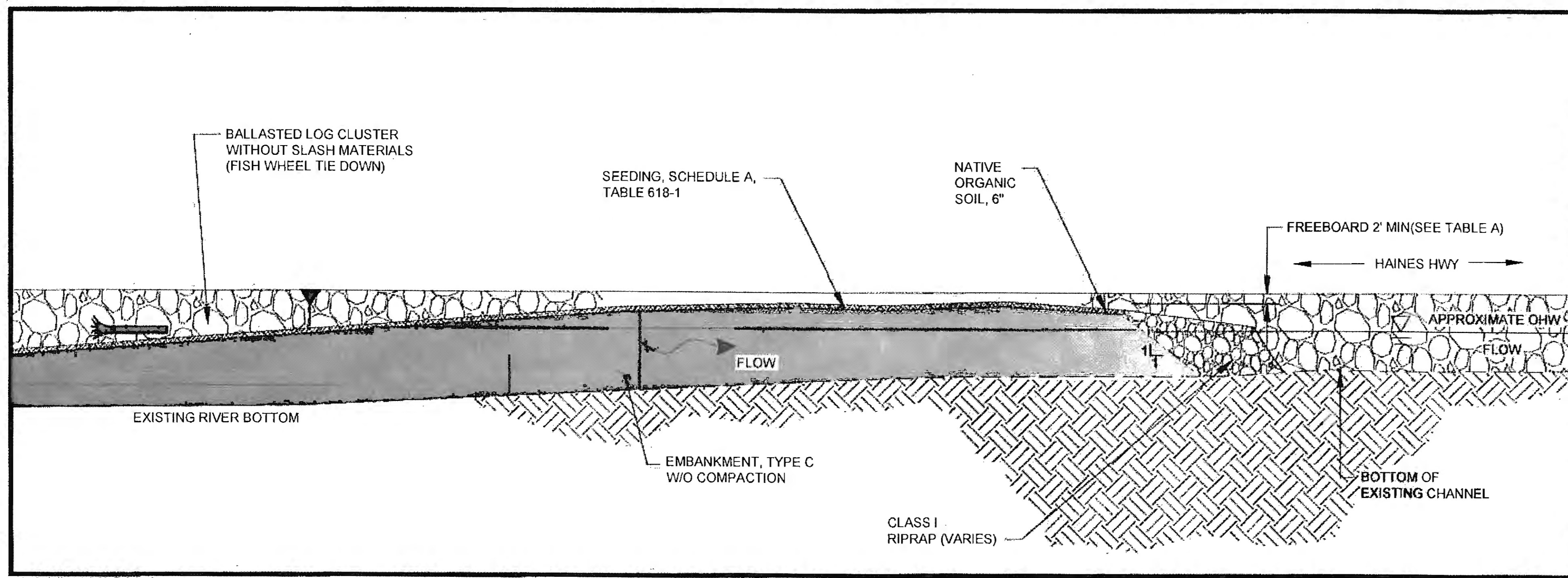
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
 (907) 465-1763

**HAINES HIGHWAY RECONSTRUCTION  
 MP 3.9 TO MP 12.2, PHASE 1  
 MISCELLANEOUS  
 DETAILS**

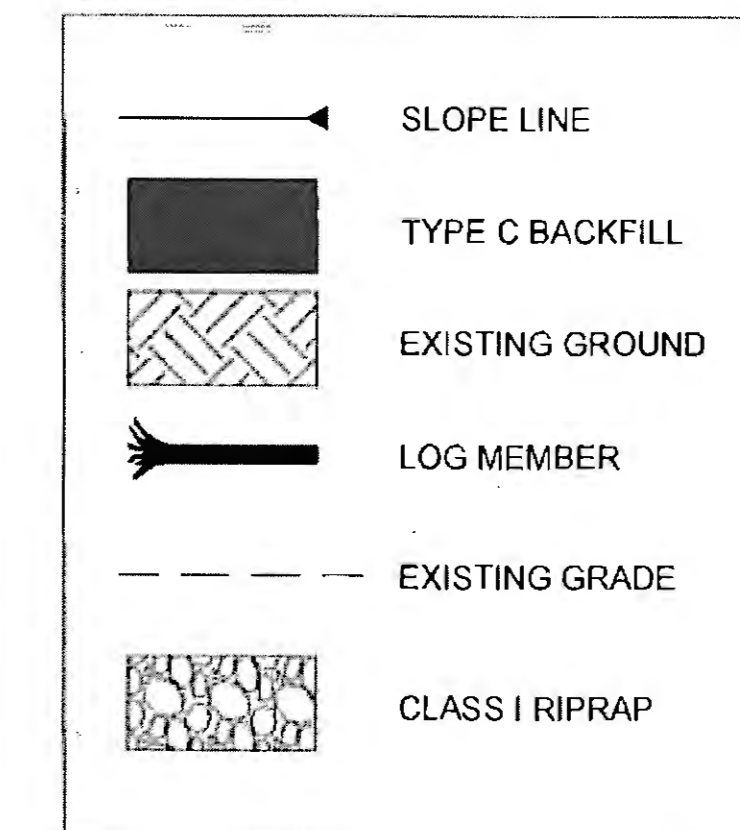
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 DATE: 8/9/2017 16:11 LAYOUT: J10  
 DESIGNED: N. HOBBS CHECKED: S. NOBLE DRAFTED: S. TYLER

FISH WHEEL SITES (FW)

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	J10	162

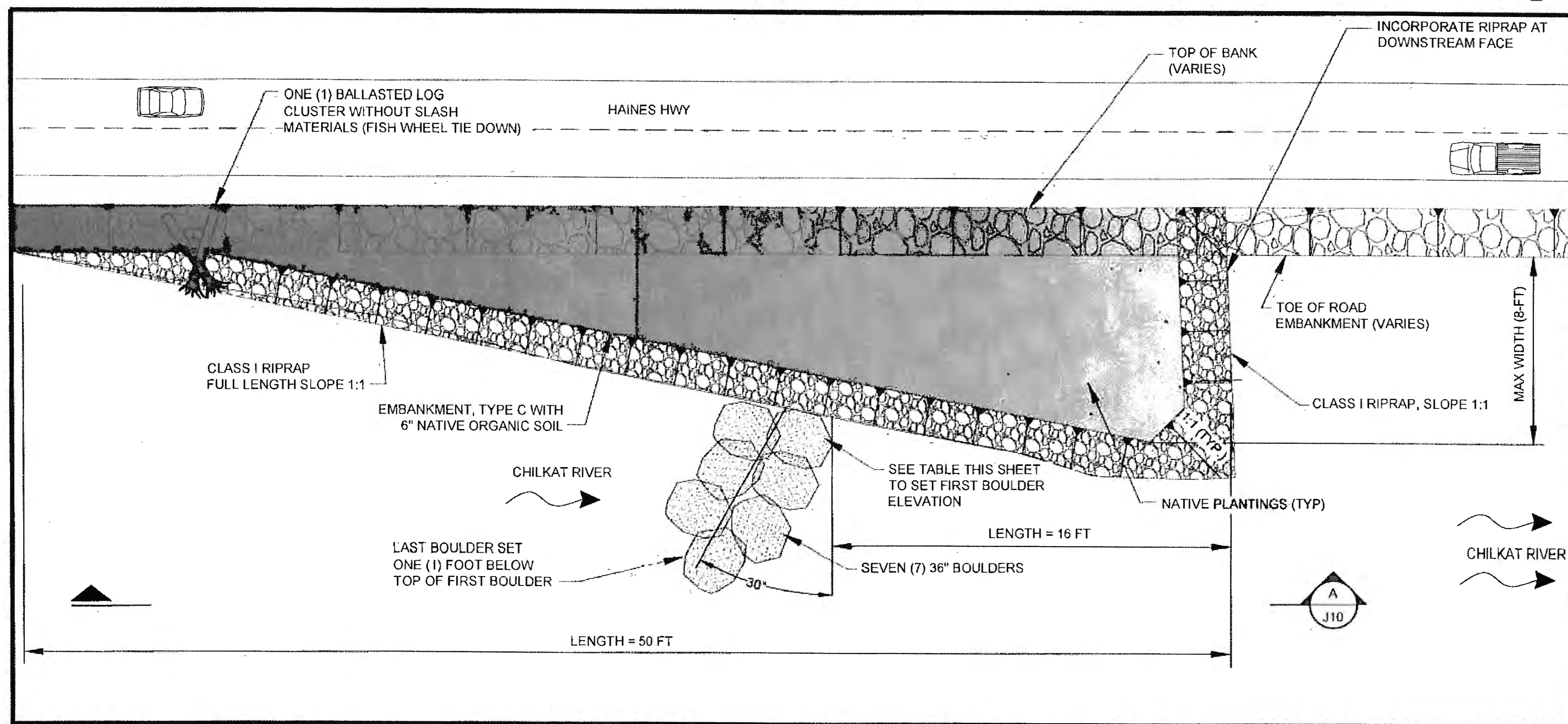


LEGEND:



ELEVATION A-A  
SCALE: NTS

1  
J10



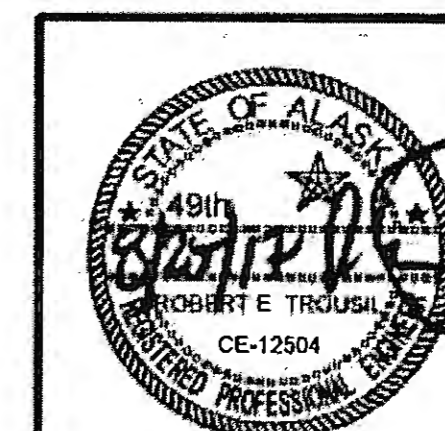
PLAN VIEW  
SCALE: NTS

2  
J10

LOCATION TABLE, FISH WHEELS

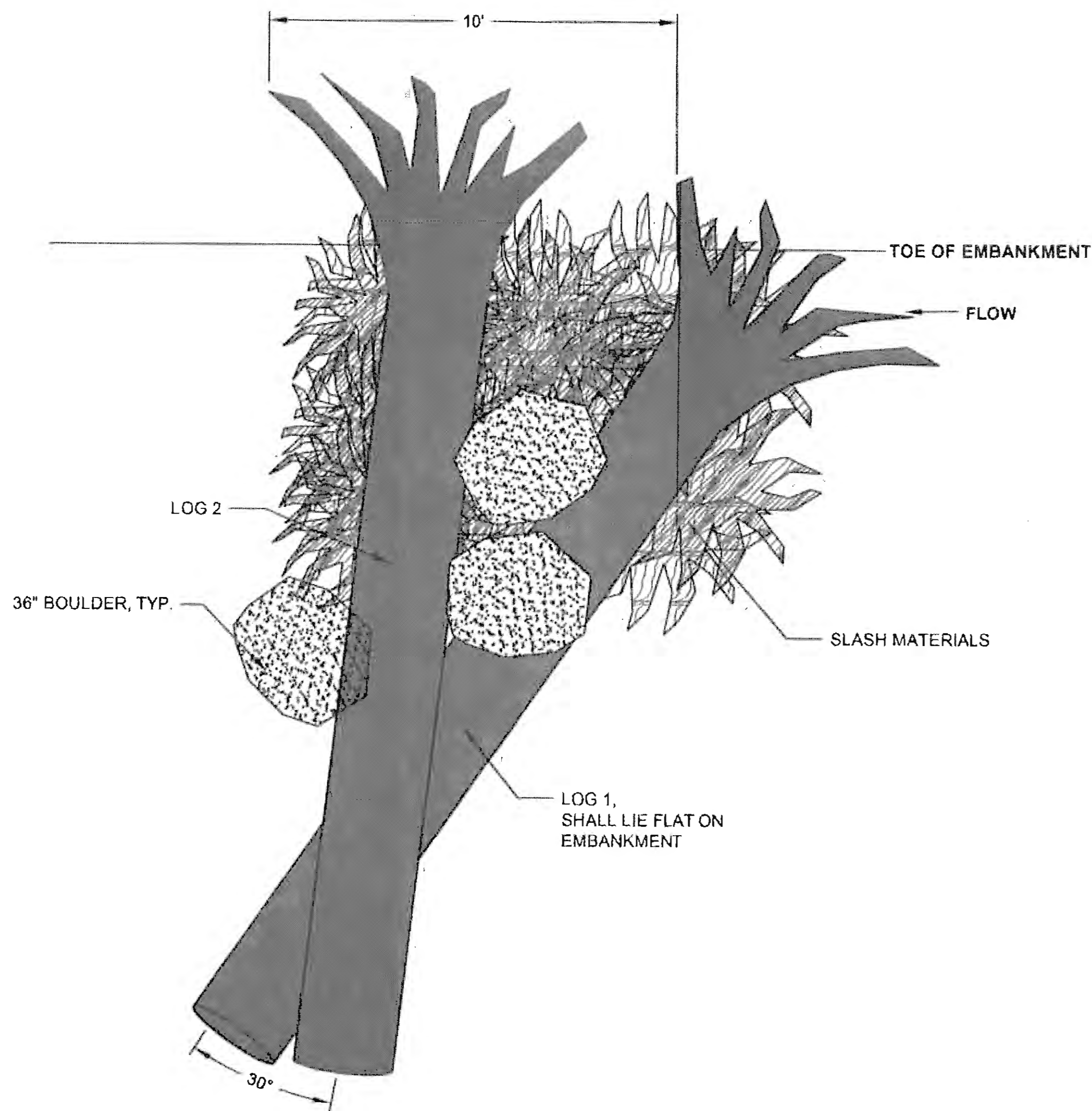
STRUCTURE NO.	BEGIN STA.	END STA.	1ST BOULDER ELEVATION (1)
10	385+50	386+00	4.3
14	413+00	413+50	N/A
16	431+00	431+50	N/A
19	446+00	446+50	2.3
23	468+00	468+50	5.6
24	494+00	494+50	3.5

(1) TOP OF BOULDER SET AT THIS DISTANCE BELOW OHW. N/A INDICATES NO BOULDERS SHALL BE INSTALLED AT THIS STRUCTURE.



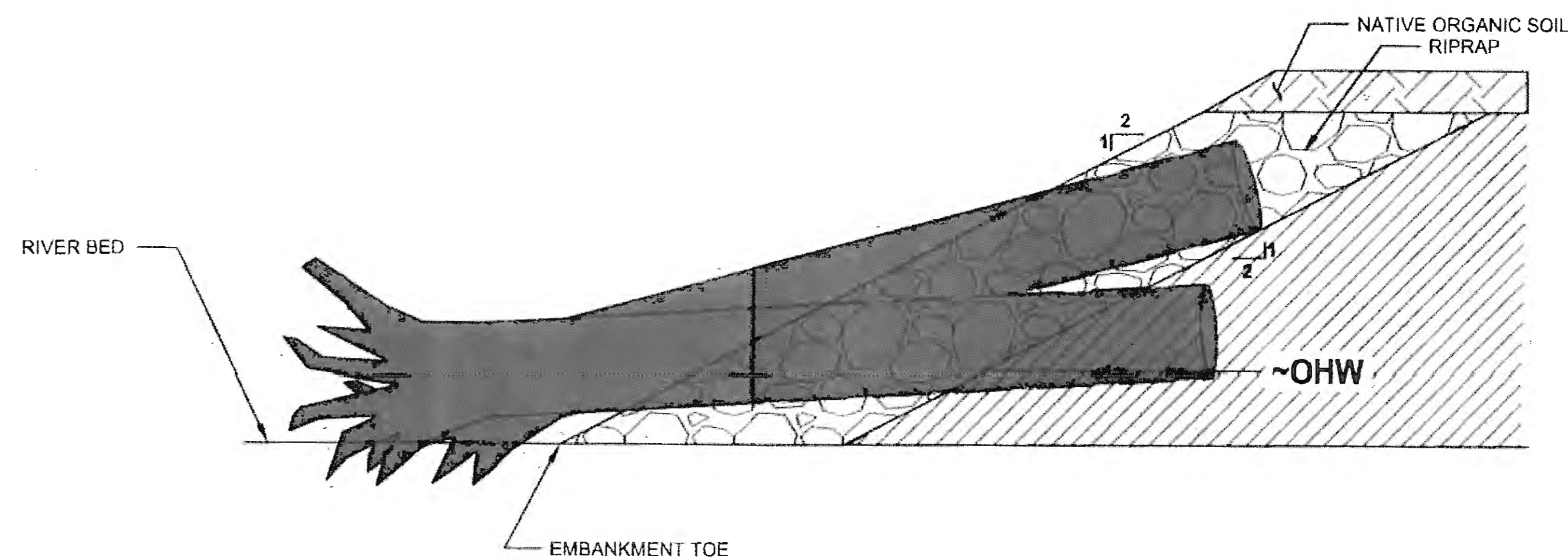
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
 (907) 465-1763  
**HAINES HIGHWAY RECONSTRUCTION  
 MP 3.9 TO MP 12.2, PHASE 1  
 MISCELLANEOUS  
 DETAILS**

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	10/17/17	ADJUSTED BOULDERS	ALASKA	0965(035)/SFHWY00126	2017	J11	160
2	10/31/17	MOVE LOGS					
3	11/2/17	ADD TYPICAL					



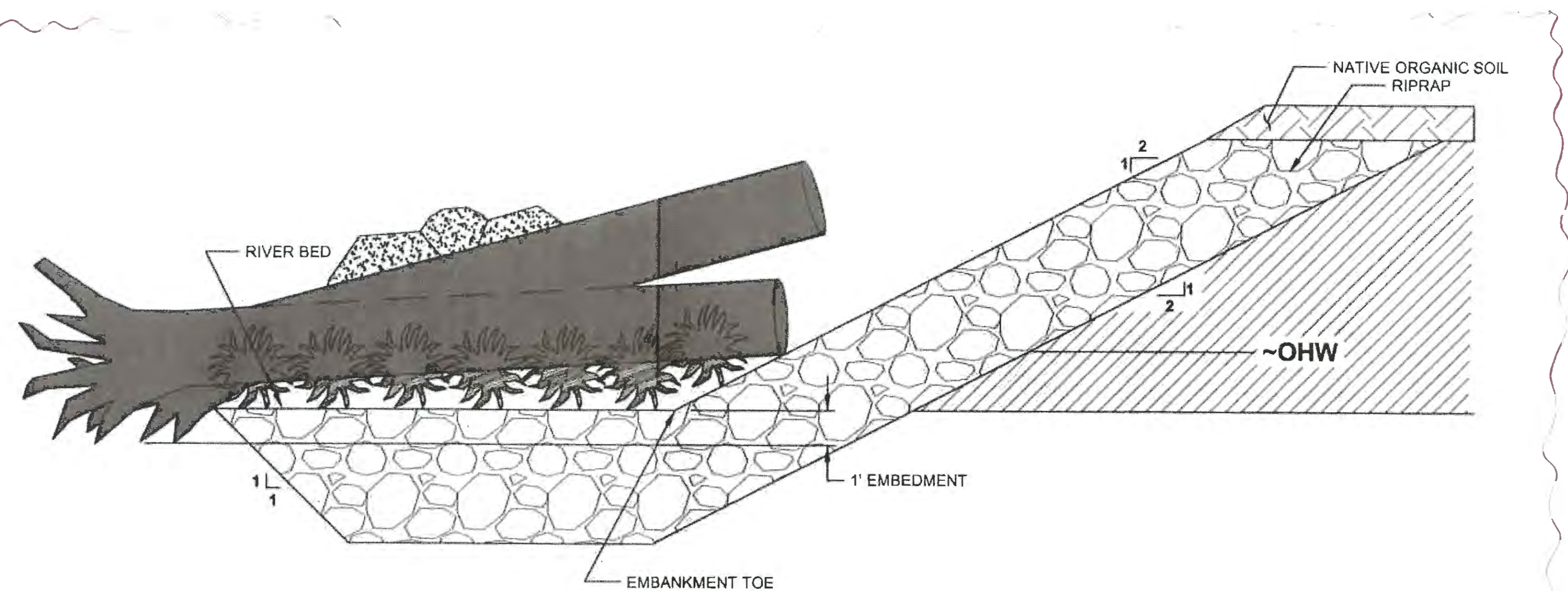
**BALLASTED LOG CLUSTER ASSEMBLY (BLC)**

NTS



**BALLASTED LOG CLUSTER, EMBEDDED**

SHEET J6, J7, J8  
NTS



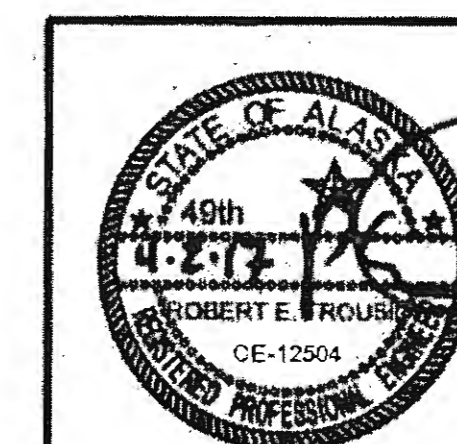
**BALLASTED LOG CLUSTER, NOT EMBEDDED**

SHEET J9, J10  
NTS

1 Delete per CO3

**CONSTRUCTION SEQUENCE**

1. PLACE LOG 1 AT A 30 DEGREE UPSTREAM SKEW ON THE EMBANKMENT. EMBED THE ROOT WAD OF LOG 1 ONE (1) FOOT INTO THE EMBANKMENT TOE.
2. LAYER SLASH ON TOP OF AND UP AGAINST THE DOWNSTREAM SIDE OF LOG 1 FOR A DISTANCE OF TEN (10) FEET FOR THE ENTIRE LENGTH OF THE LOG, WITH DEPTH EQUAL TO TWO (2) TIMES THE DIAMETER OF LOG 1.
3. PLACE THE NON-ROOT WAD END OF LOG 2 ON TOP OF LOG 1 AS SHOWN.
4. PLACE THREE (3) BOULDERS, NESTING THEM TO SECURE BOTH LOG 1 & 2.
5. BOULDERS ARE ONLY REQUIRED ON BALLASTED LOG STRUCTURES THAT ARE NOT EMBEDDED INTO RIPRAP OR BACKFILLED EMBANKMENTS.



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**HAINES HIGHWAY RECONSTRUCTION  
MP 3.9 TO MP 12.2, PHASE 1  
MISCELLANEOUS  
DETAILS**

FILE C:\Users\68606\Documents\FROM DOW\J6-J10 MISC DETS.dwg  
 DATE 11/2/2017 13:38 LAYOUT J11  
 DESIGNED B. TROUSIL CHECKED G. LOCKWOOD DRAFTED D. STEVENS

FILE: O:\2A\61850-01\BSCAD\MP 3-12 PSE\ SHEETS\INS HWY 06-J12 SHEETS\_F\Inl\_060217.dwg  
 DATE: 8/3/2017 12:46 LAYOUT: J12  
 DESIGNED: N. HOBBS CHECKED: S. NOBLE DRAFTED: S. TYLER

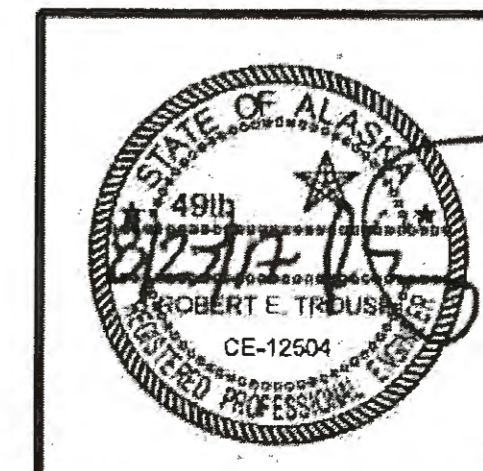
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	J12	162

RIVER PROTRUSION AND FISH WHEEL SITE STRUCTURE NO.	3	7	8	10	12	14	15	16	17	18	19	23	24	25	TOTALS
BEGIN STATION	<del>298+25</del>	<del>354+80</del>	<del>362+00</del>	385+50	<del>384+00</del>	413+00	<del>415+80</del>	431+00	<del>435+80</del>	<del>441+00</del>	446+00	468+00	494+00	<del>497+80</del>	--
END STATION	<del>300+25</del>	<del>356+40</del>	<del>363+00</del>	386+00	<del>384+50</del>	413+50	<del>417+20</del>	431+50	<del>437+75</del>	<del>443+10</del>	446+50	468+50	494+50	<del>500+00</del>	--
CONFIGURATION CODE	RP-A	RP-B	RP-B	FW	RP-C	FW	RP-A	FW	RP-A	RP-A	FW	FW	FW	RP-C	--
STRUCTURE/MITIGATION LENGTH PARRALLEL TO FLOW, (FT):	200	160	100	50	50	50	140	50	195	210	50	50	50	220	1575
MAX STRUCTURE WIDTH, TOP-BACK OF BANK TO TOE OF STRUCTURE (FT):	25	25	30	17	30	11	30	13	25	25	15	19	14	30	--
WIDTH AT TOP OF STRUCTURE, (FT):	20.6	18.9	23.2	8	20.7	8	26.5	8	20.5	20.5	8	8	8	21.5	--
ORDINARY HIGH WATER DEPTH ADJACENT TO BANK, (FT):	2.4	4.1	4.8	7.3	7.3	1.3	1.5	2.7	2.5	2.5	5.3	8.6	4.2	6.5	--
TRANSPLANTED COTTONWOOD STOCK, (EA.)	8	6	4	--	2	--	6	--	8	8	--	--	--	9	51
LIVE WILLOW STAKING, (LINEAR FT)	150	120	75	--	25	--	105	--	146	158	--	--	--	110	889
NATIVE ORGANIC SOIL, (CU YDS):	38	28	21	4	10	4	34	4	37	40	4	4	4	44	274
A1. INDIVIDUAL LOG LENGTH, (MINIMUM 12), (FT):	12	12	12	15	15	12	12	12	12	12	12	17	12	13	--
A2. TOTAL NUMBER OF BLC ASSEMBLIES REQUIRED:	2	6	5	1	6	1	2	1	2	2	1	1	1	23	54
A3. TOTAL NUMBER OF LOGS REQUIRED:	4	12	10	2	12	2	4	2	4	4	2	2	2	46	109
B. ESTIMATED VOLUME OF EMBANKMENT, TYPE C (BELOW OHW) FILL, (CU YDS):	183	230	206	54	140	10	103	20	185	199	39	64	31	569	2,033
C. ESTIMATED VOLUME OF EMBANKMENT, TYPE C (ABOVE OHW) FILL, (CU YDS):	153	112	86	15	38	15	137	15	148	159	15	15	15	175	1,098
D1. ESTIMATED VOLUME OF RIP RAP, CLASS IV, (CU YDS):	0	0	0	4	0	4	0	4	0	0	4	4	4	0	22
D2. ESTIMATED VOLUME OF RIP RAP, CLASS I, (CU YDS):	6	8	11	9	16	2	6	3	6	6	6	11	5	14	110
E. ESTIMATED VOLUME OF SLASH MATERIALS, (CU YDS):	4	14	11	0	16	0	4	0	4	4	0	0	0	56	115
F. ESTIMATED WOODY MATERIALS, (CU YDS):	6	19	16	3	19	3	6	3	6	6	3	3	3	72	169
TOTAL FILL, (CU YDS):	352	383	330	85	229	33	257	45	350	376	67	96	58	887	3,547

Structure Number	Begin STA	End STA	Length (ft)	Number of Logs
RPA-3	300+20	300+35	15	5
RPB-7	355+90	356+50	60	12
RPB-8	362+75	363+05	30	10
RPC-12	381+40	382+00	60	12
RPA-15	417+10	417+25	15	4
RPA-17	437+05	437+20	15	4
RPA-18	443+00	443+15	15	4
RPC-25	493+90	500+05	115	46

BALLASTED LOGS CLUSTER ASSEMBLIES STRUCTURE NO.	1	2	4	5	6	9	11	13	20	21	22	26	27	TOTALS
BEGIN STATION	264+00	275+10	<del>312+00</del>	<del>336+70</del>	351+20	<del>374+00</del>	<del>386+00</del>	389+00	449+20	455+30	<del>463+50</del>	585+30	612+50	--
END STATION	<del>265+00</del>	<del>276+10</del>	313+40	<del>338+25</del>	352+30	<del>374+50</del>	<del>386+50</del>	390+00	451+20	456+70	<del>465+00</del>	588+10	613+50	--
CONFIGURATION CODE	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	BLC	--
STRUCTURE/MITIGATION LENGTH PARRALLEL TO FLOW, (FT):	100	100	140	155	110	<del>50</del>	50	100	200	140	150	280	100	1,675
ORDINARY HIGH WATER DEPTH ADJACENT TO BANK, (FT):	3.6	4.4	3.4	2.1	4.1	<del>7</del>	7.3	7.3	7.4	8.5	8.5	5.5	6.6	--
NUMBER OF LOGS W/ ROOT WAD PER ASSEMBLY:	2	2	2	2	2	<del>2</del>	2	2	2	2	2	2	2	26
NUMBER OF ROCKS PER ASSEMBLY:	3	3	3	3	3	<del>3</del>	3	3	3	3	3	3	3	39
OVERLAP OF ASSEMBLIES, (FT):	2.4	2.8	2.4	2.4	2.6	<del>4.4</del>	4.6	4.6	4.7	5.4	5.4	3.5	4.2	--
ESTIMATED VOLUME OF SLASH MATERIALS, (CU YDS):	21	21	30	33	23	<del>11</del>	11	21	42	30	32	59	21	355
A1. INDIVIDUAL LOG LENGTH, (MINIMUM 12), (FT):	12	14	12	12	13	<del>22</del>	23	23	23	27	27	17	21	--
A2. TOTAL NUMBER OF ASSEMBLIES REQUIRED:	10	9	15	16	11	<del>3</del>	3	5	11	7	7	20	6	122
A3. TOTAL NUMBER OF LOGS REQUIRED:	21	18	29	32	21	<del>6</del>	5	11	21	13	14	40	12	244
B1. ESTIMATED LOG VOLUME, W/ ROOT WAD PER ASSEMBLY (CU YDS):	2.3	2.7	2.3	2.3	2.5	<del>4.3</del>	4.5	4.5	4.6	5.3	5.3	3.4	4.1	48
B2. ESTIMATED LOG VOLUME W/ ROOT WADS, PER STRUCTURE, (CU YDS):	24	24	34	38	27	<del>12</del>	12	24	49	34	37	68	24	409
C1. ESTIMATED VOLUME OF BOULDERS, PER ASSEMBLY, (CU YDS):	1.6	1.6	1.6	1.6	1.6	<del>1.6</del>	1.6	1.6	1.6	1.6	1.6	1.6	1.6	21
C2. ESTIMATED VOLUME OF BOULDERS, PER STRUCTURE, (CU YDS):	16.6	14.3	23.2	25.7	16.9	<del>4.5</del>	4.3	8.6	17.0	10.4	11.1	32.0	9.5	194
D1. ESTIMATED WEIGHT OF BOULDERS, PER ASSEMBLY, (TONS):	3.0	3.0	3.0	3.0	3.0	<del>3.0</del>	3.0	3.0	3.0	3.0	3.0	3.0	3.0	39
D2. ESTIMATED WEIGHT OF BOULDERS PER STRUCTURE, (TONS):	31.3	27.0	43.8	48.4	31.8	<del>8.5</del>	8.1	16.2	32.1	19.5	20.9	60.4	18.0	366
LOG TOTAL, (CU YDS):	24	24	34	38	27	<del>12</del>	12	24	49	34	37	68	24	409
BOULDER TOTAL, (TONS):	31	27	44	48	32	<del>8</del>	8	16	32	20	21	60	18	366

Structure Number	Begin STA	End STA	Log Length (ft)	Number of Logs
RLS-1	267+50	268+50	400	73
RLS-2A	284+20	284+95	75	17
RLS-2B	288+25	289+65	80	23
RLS-4	292+00	299+00	300	68
RLS-5	312+50	313+90	140	50
RLS-6	336+50	338+60	210	44
RLS-11	391+80	392+30	50	12
RLS-13	429+00	430+25	125	22
RLS-20	441+30	441+90	60	14
RLS-21	443+30	443+50	20	12
RLS-22	444+00	446+15	275	38

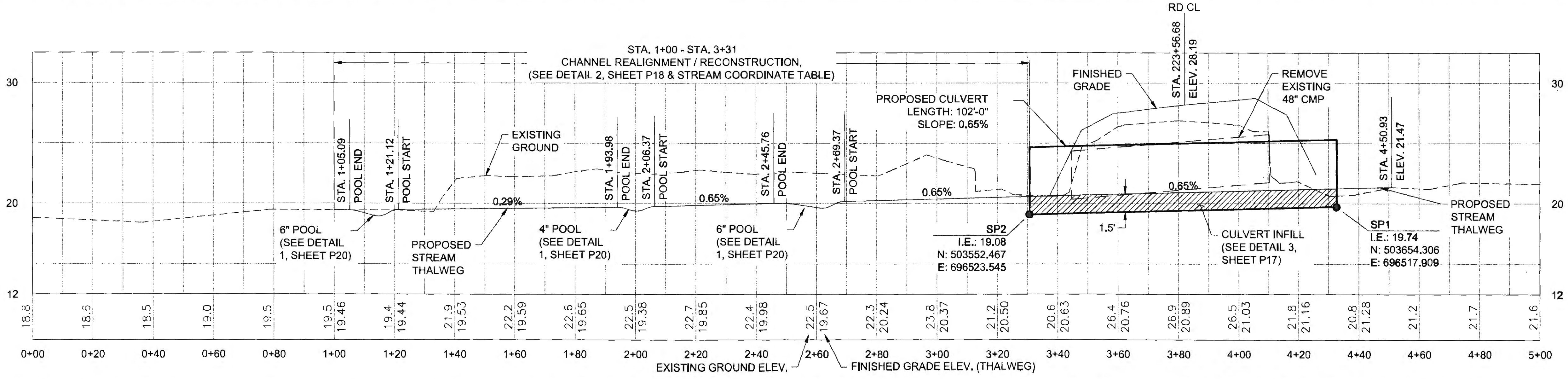
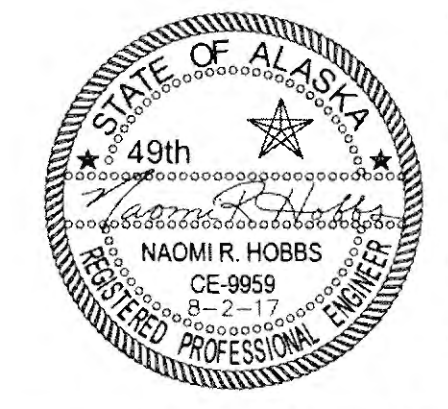
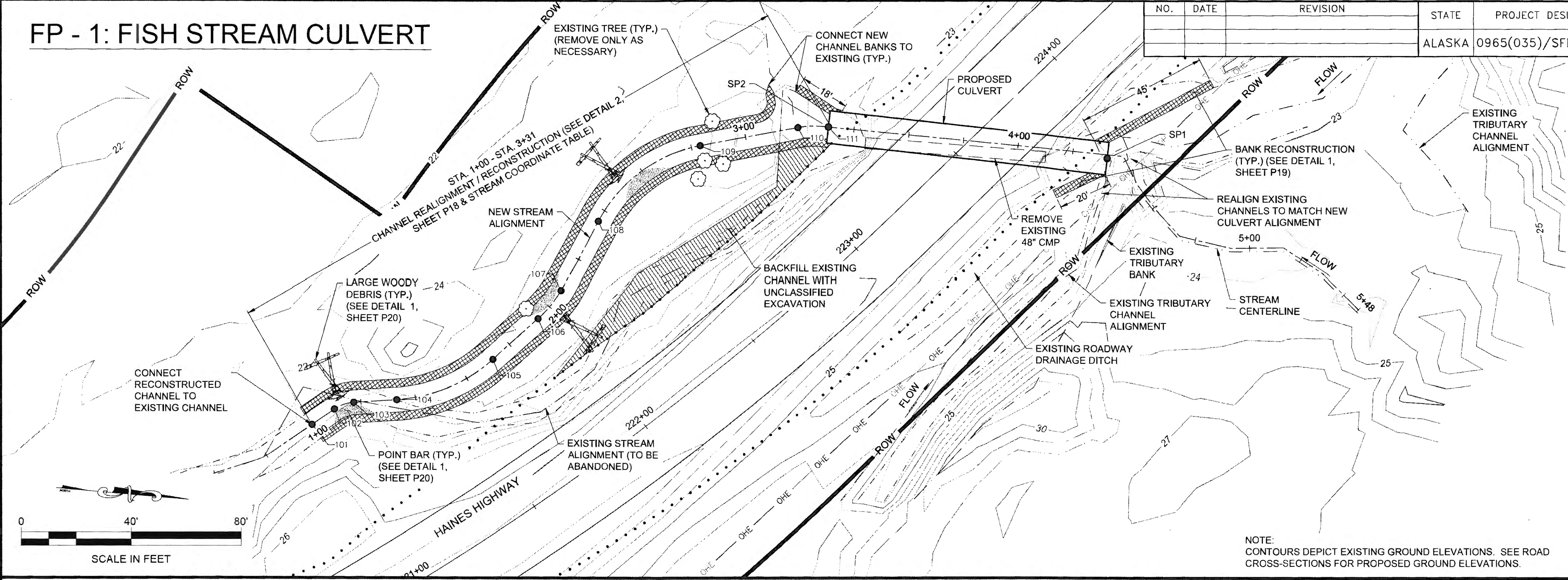


STATE OF ALASKA  
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 6860 GLACIER HIGHWAY, JUNEAU, AK 99801  
 (907) 465-1763  
**HAINES HIGHWAY RECONSTRUCTION**  
**MP 3.9 TO MP 12.2, PHASE 1**  
**MISCELLANEOUS**  
**DETAILS**

FIRM DWM  
 FILE D:\24\161850-01\65CAD\MP 3-12 PSE\AP SHEETS\PI-P21.dwg  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBES  
 CHECKED S. NOBLE  
 DRAFTED J. TYLER  
 DATE 6/23/2017 15:56  
 LAYOUT P1  
 CERTIFICATE OF AUTH. # : AECUB48

# FP - 1: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P1	162



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	503385.08	696661.39	19.46	BEGIN CHANNEL RECONSTRUCTION
102	503392.18	696654.51	19.21	PC (R14')
103	503398.69	696650.95	19.13	PT (R14')
104	503413.92	696647.34	19.51	PC (R60')
105	503445.99	696626.95	19.62	PT (R60')
106	503459.86	696609.53	19.69	PC (R42')

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
107	503466.40	696598.07	19.77	PT (R42')
108	503475.67	696571.34	19.95	PC (R53')
109	503507.54	696538.07	20.26	PT (R53')
110	503541.58	696525.59	20.50	PC (R34')
111	503552.47	696523.55	20.58	PT (R34')

SPAN	7'-11"
RISE	5'-7"
SHAPE	ARCH PIPE
MATERIAL	ALUMINUM
GAGE	12
CORRUGATIONS	3" X 1"
AVG. CHANNEL SLOPE	0.53%
CULVERT SLOPE	0.65%

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	17	22.23	0.24
50%	2	42	23.04	0.44
2%	50	114	24.93	0.90
1%	100	130	25.33	1.00

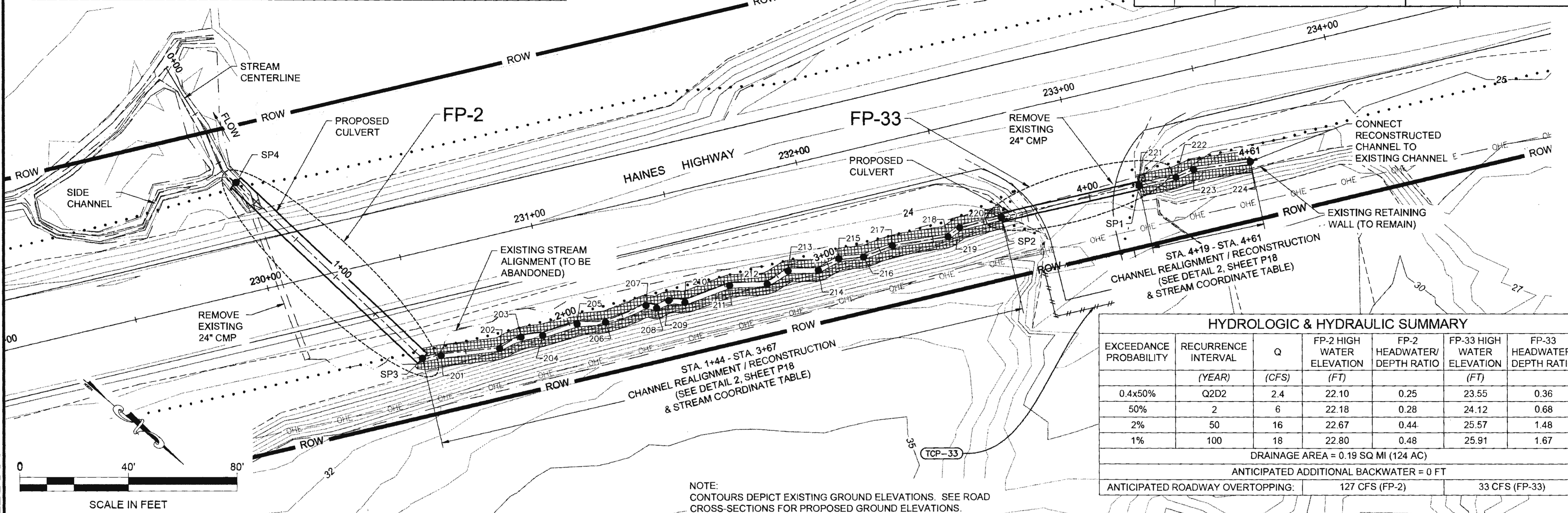
DRAINAGE AREA = 0.47 SQ MI (301 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 226 CFS



FIRM DWL  
 FILE 0:\24\1850-01\BSCAD\MP 3-12 PSE\P SHEETS\1-P21.dwg  
 ADDRESS 5368 COMMERCIAL BLVD. JUNEAU, AK 99901  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 6/23/2017 15:56  
 LAYOUT P2

# FP - 2 & FP - 33: FISH STREAM CULVERTS

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P2	162



EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	FP-2 HIGH WATER ELEVATION (FT)	FP-2 HEADWATER/DEPTH RATIO	FP-33 HIGH WATER ELEVATION (FT)	FP-33 HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	2.4	22.10	0.25	23.55	0.36
50%	2	6	22.18	0.28	24.12	0.68
2%	50	16	22.67	0.44	25.57	1.48
1%	100	18	22.80	0.48	25.91	1.67

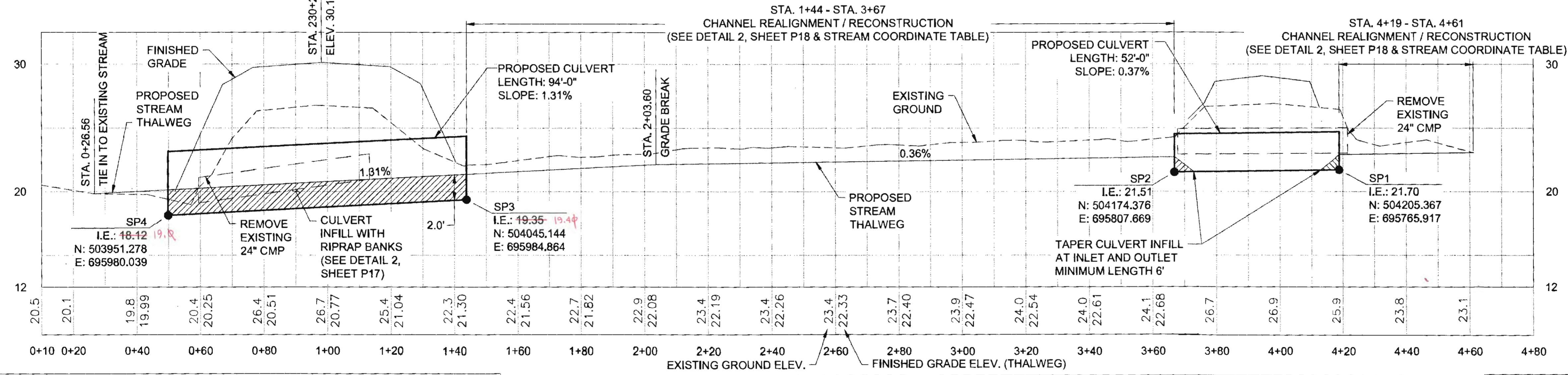
DRAINAGE AREA = 0.19 SQ MI (124 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING: 127 CFS (FP-2)      33 CFS (FP-33)



NOTE: CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.

## FP - 2

## FP - 33



	FP-2	FP-33
DIAMETER	5'	3'
MATERIAL	ALUMINUM	ALUMINUM
GAGE	16	16
CORRUGATIONS	3" X 1"	3" X 1"
AVG. CHANNEL SLOPE	0.73%	0.73%
CULVERT SLOPE	1.31%	0.37%

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
201	504049.73	695979.66	21.44	BEGIN CHANNEL RECONSTRUCTION
202	504064.52	695963.61	21.72	PI
203	504067.81	695955.29	21.84	PI
204	504073.48	695949.70	21.95	PI
205	504080.48	695938.33	22.11	PI
206	504087.88	695930.98	22.16	PI
207	504095.28	695916.65	22.22	PI

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
208	504098.89	695914.90	22.24	PI
209	504100.48	695909.93	22.25	PI
210	504105.54	695906.60	22.27	PI
211	504114.04	695891.25	22.34	PI
212	504124.27	695881.93	22.39	PI
213	504126.98	695873.30	22.42	PI
214	504135.40	695865.88	22.46	PI

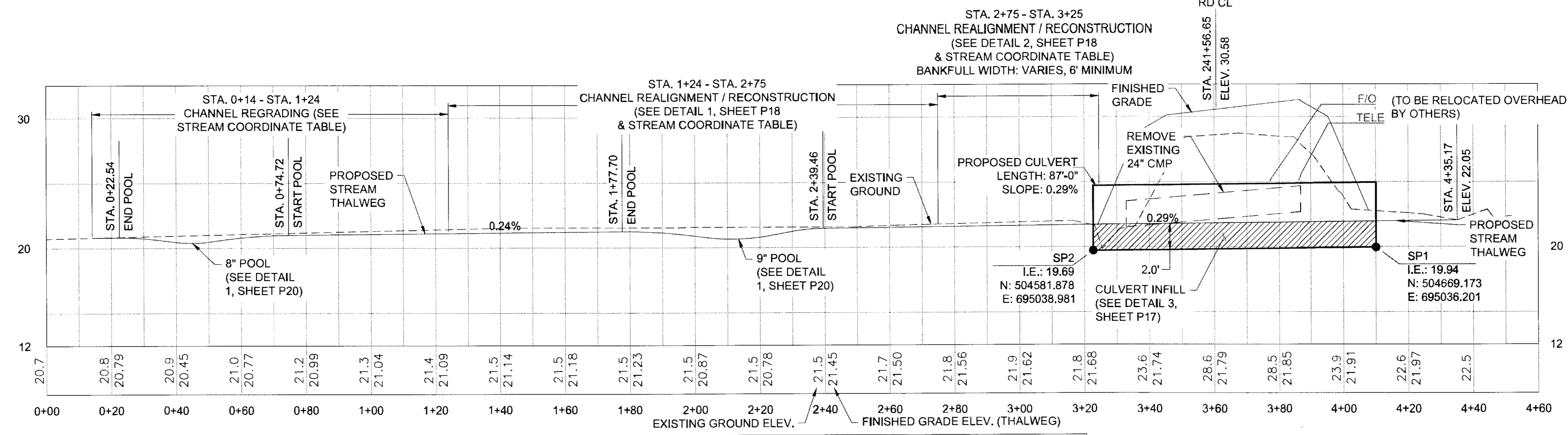
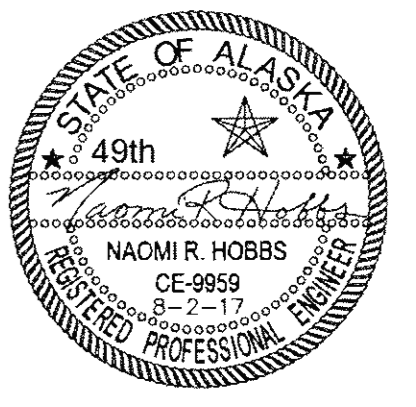
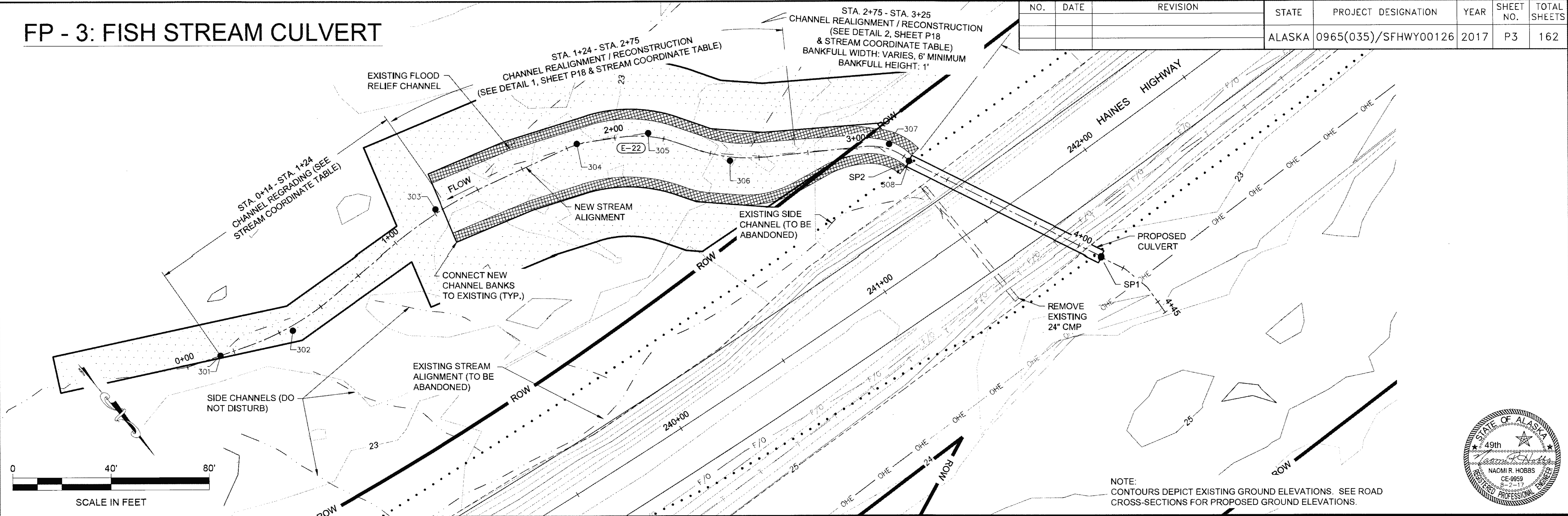
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
215	504138.38	695857.69	22.49	PI
216	504144.93	695851.39	22.52	PI
217	504150.30	695841.36	22.56	PI
218	504163.87	695825.69	22.64	PI
219	504164.95	695820.36	22.66	PI
220	504174.38	695807.67	22.71	END CHANNEL RECONSTRUCTION
221	504205.37	695765.92	22.90	BEGIN CHANNEL RECONSTRUCTION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
222	504213.87	695754.73	22.95	PI
223	504216.97	695748.31	22.98	PI
224	504231.06	695732.59	23.05	END CHANNEL RECONSTRUCTION

FIRM: DONL  
 FILE: 0:\24\161850-01\65CAD\WP 3-12 PSE\VP SHEETS\P1-P21.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DATE: 6/23/2017 15:56  
 LAYOUT: P3  
 DESIGNED: N. HOBBS  
 CHECKED: S. TYLER  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1: AEL848

# FP - 3: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P3	162



DIAMETER	5'
MATERIAL	ALUMINUM
GAGE	16
CORRUGATIONS	3" X 1"
AVG. CHANNEL SLOPE	0.45%
CULVERT SLOPE	0.29%

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	2.8	22.87	0.32
50%	2	7	22.96	0.35
2%	50	12	23.40	0.50
1%	100	18	23.54	0.55

DRAINAGE AREA = 0.03 SQ MI (18 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 126 CFS

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
301	504371.36	695240.64	20.78	BEGIN CHANNEL RECONSTRUCTION/REGRADING
302	504392.56	695217.74	20.37	PI (R109'), POOL CENTER
303	504420.76	695146.97	21.09	PI (R172')
304	504459.12	695096.28	21.21	PI (R110')
305	504482.68	695078.80	20.65	PI (R48'), POOL CENTER

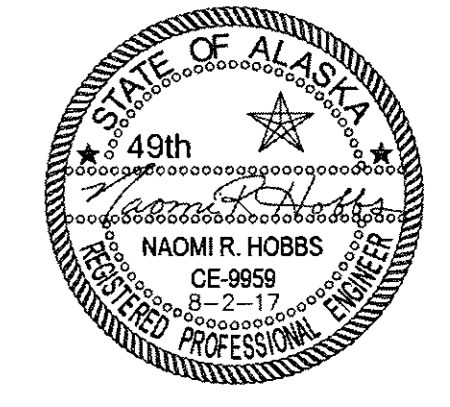
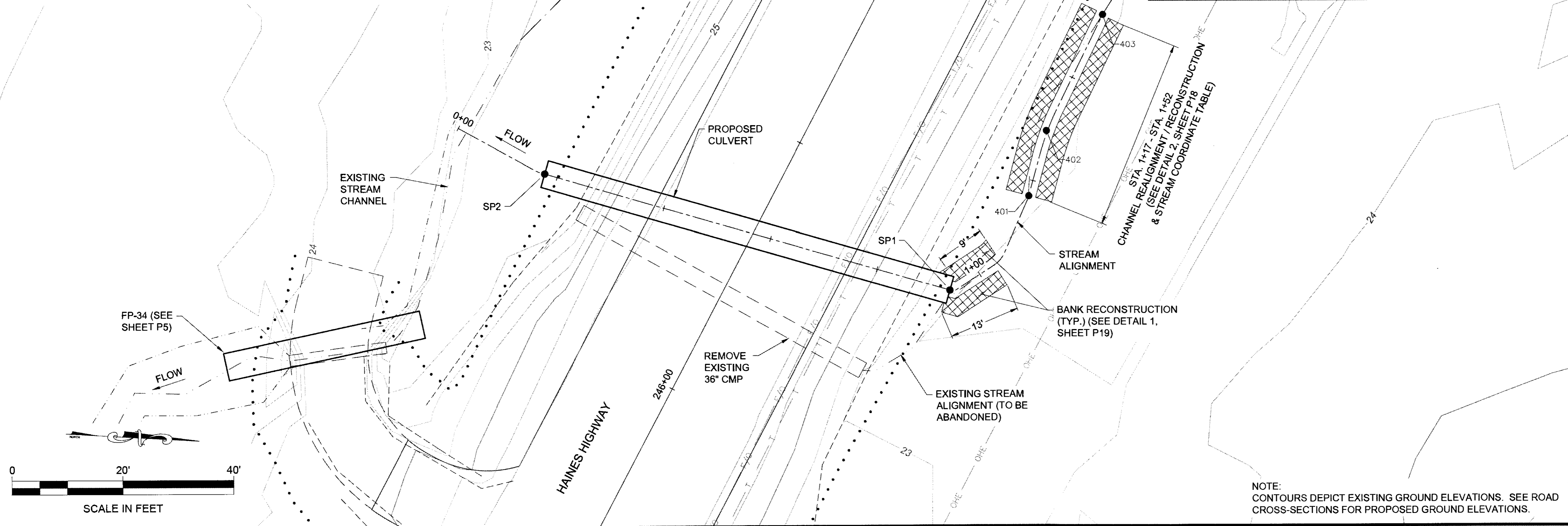
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
306	504517.44	695073.06	21.47	PI (R65')
307	504571.47	695036.70	21.67	PI (R24')
308	504581.88	695038.98	21.69	END CHANNEL RECONSTRUCTION

UTILITY NOTE:  
PROTECT AND MAINTAIN FOR SERVICEABILITY

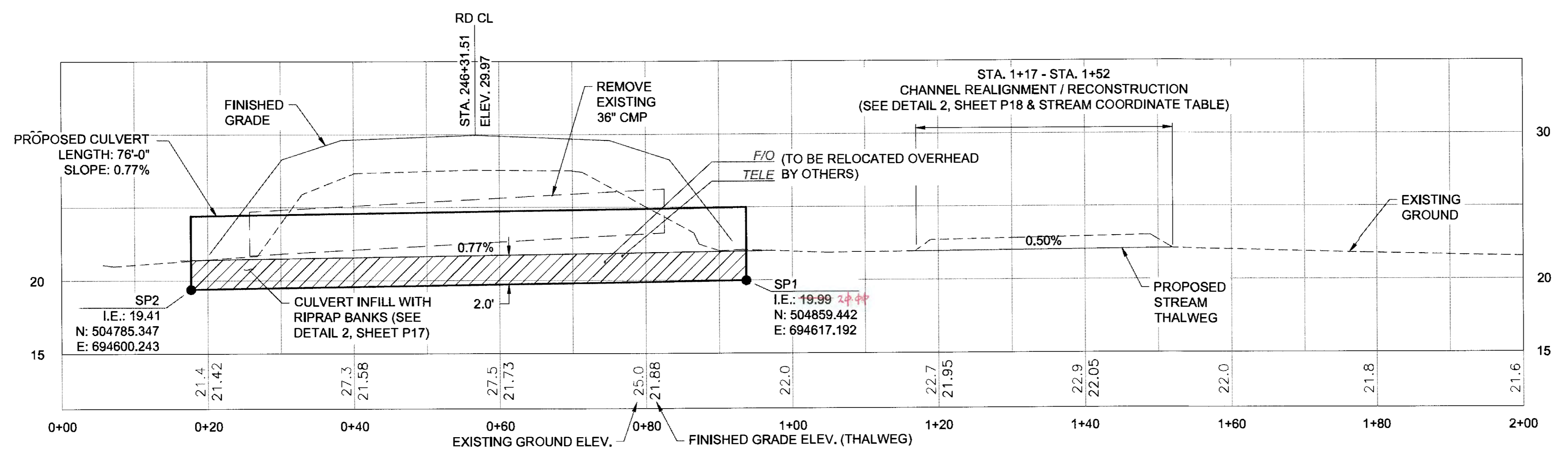
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 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE: 6/23/2017 15:56 LAYOUT P4  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

# FP - 4: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P4	162



NOTE: CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
401	504872.77	694599.51	21.94	BEGIN CHANNEL RECONSTRUCTION
402	504875.31	694587.60	22.00	PI
403	504884.31	694566.10	22.11	END CHANNEL RECONSTRUCTION

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	6.8	22.73	0.25
50%	2	17	23.43	0.48
2%	50	46	25.06	1.02
1%	100	52	25.45	1.15

DRAINAGE AREA = 0.121 SQ MI (77 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 102 CFS

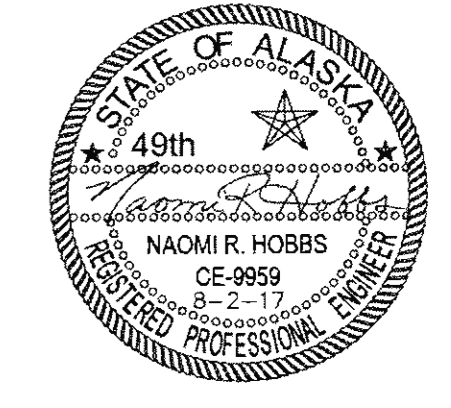
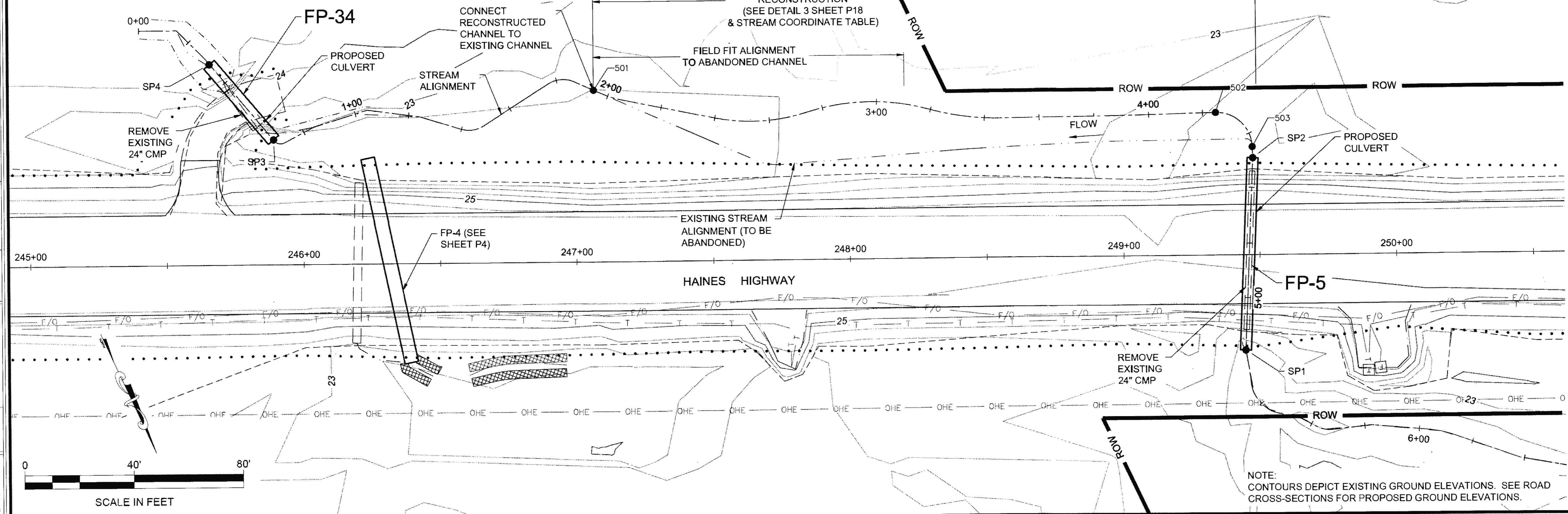
DIAMETER	5'
MATERIAL	ALUMINUM
GAGE	16
CORRUGATIONS	3" X 1"
AVG. CHANNEL SLOPE	0.88%
CULVERT SLOPE	0.77%

UTILITY NOTE: PROTECT AND MAINTAIN FOR SERVICEABILITY

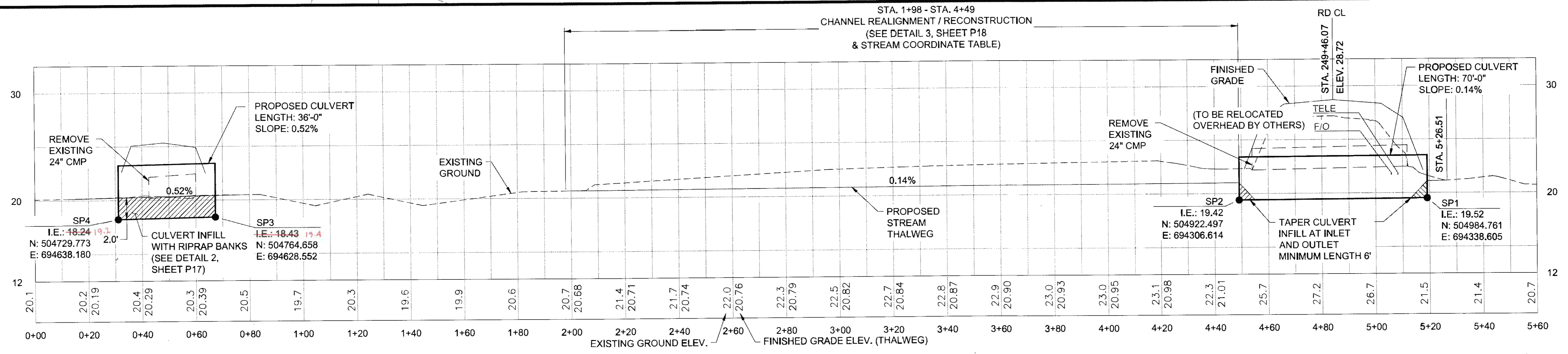
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/23/2017 15:56  
 LAYOUT: P5

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P5	162

# FP-5 & FP-34: FISH STREAM CULVERTS



NOTE: CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
501	504797.75	694514.63	20.68	BEGIN CHANNEL RECONSTRUCTION
502	504901.76	694311.89	20.99	PC (R13')
503	504918.75	694305.04	21.02	PT (R13')

	FP-5	FP-34
DIAMETER	4'	5'
MATERIAL	ALUMINUM	ALUMINUM
GAGE	16	16
CORRUGATIONS	3" X 1"	3" X 1"
AVG. CHANNEL SLOPE	0.44%	0.44%
CULVERT SLOPE	0.14%	0.52%

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	FP-5 Q (CFS)	FP-5 HIGH WATER ELEVATION (FT)	FP-5 HEADWATER/DEPTH RATIO	FP-34 Q (CFS)	FP-34 HIGH WATER ELEVATION (FT)	FP-34 HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	2.4	21.63	0.21	9.2	22.08	0.55
50%	2	6	22.04	0.38	23	22.38	0.65
2%	50	15	22.82	0.71	61	23.81	1.12
1%	100	17	22.98	0.78	69	24.16	1.24

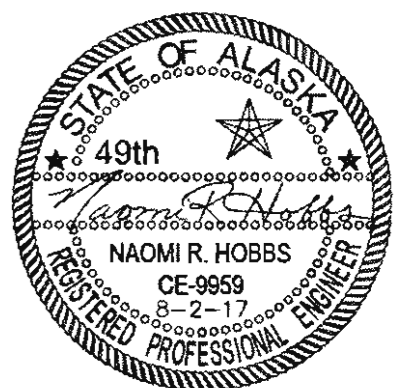
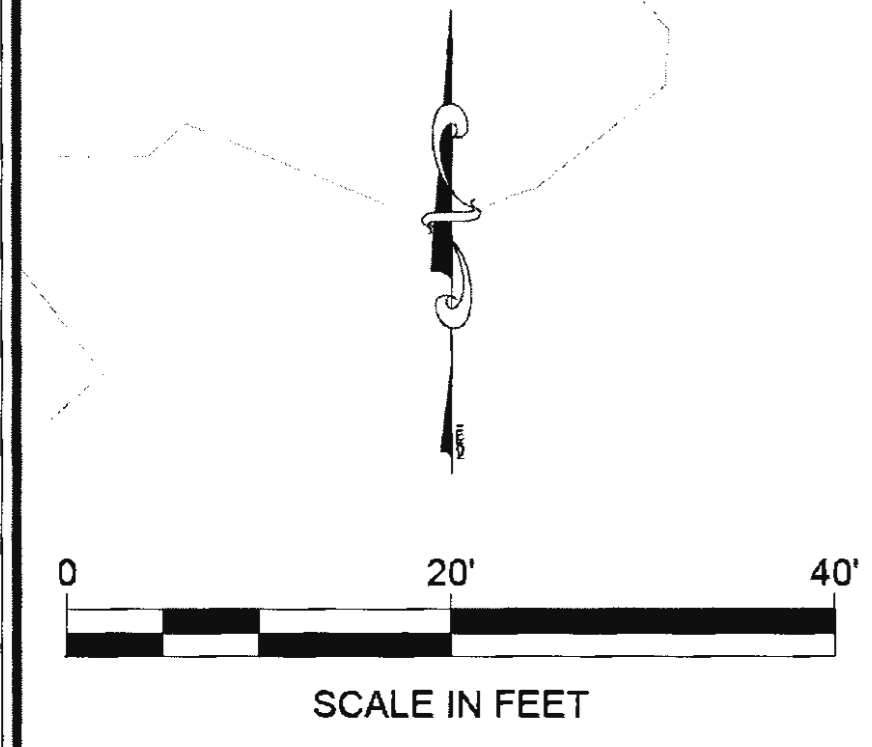
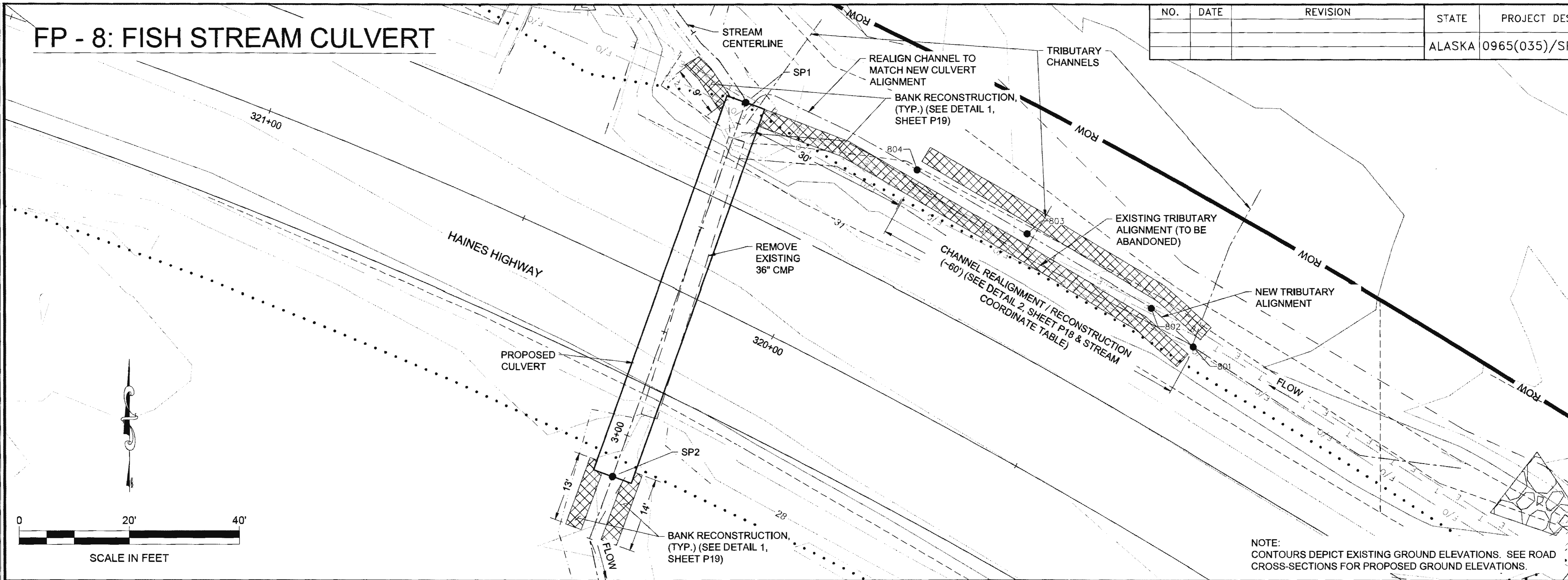
DRAINAGE AREA = 0.291 SQ MI (186 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING: 59 CFS (FP-5)      83 CFS (FP-34)

UTILITY NOTE:  
PROTECT AND MAINTAIN FOR SERVICEABILITY

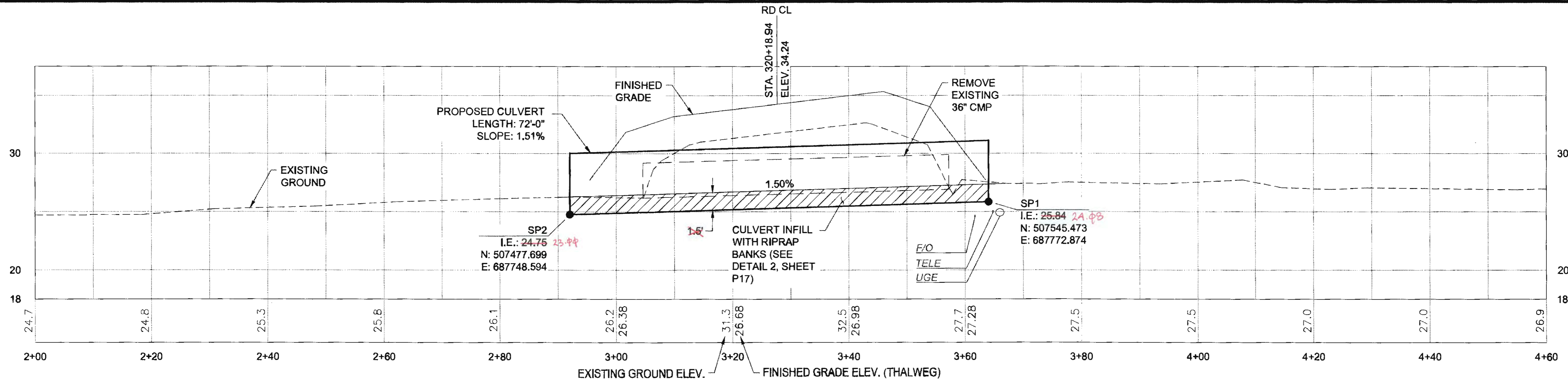
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 ADDRESS 5268 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DATE 6/23/2017 15:56  
 LAYOUT PG  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # AECLB48

# FP - 8: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P6	162



NOTE:  
 CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
801	507501.21	687854.16	29.47	BEGIN CHANNEL RECONSTRUCTION
802	507508.22	687846.44	29.30	PI
803	507521.60	687823.96	29.00	PI
804	507533.20	687803.99	28.50	END CHANNEL RECONSTRUCTION

SPAN	7'-3" 8"
RISE	5'-3" 5' 11"
SHAPE	ARCH PIPE
MATERIAL	ALUMINUM
GAGE	10
CORRUGATIONS	3" X 1"
AVG. CHANNEL SLOPE	1.00%
CULVERT SLOPE	1.51%

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	20.0	28.47	0.30
50%	2	50	29.43	0.56
2%	50	135	32.38	1.34
1%	100	154	33.45	1.63

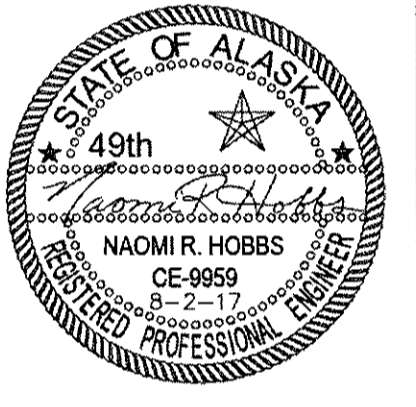
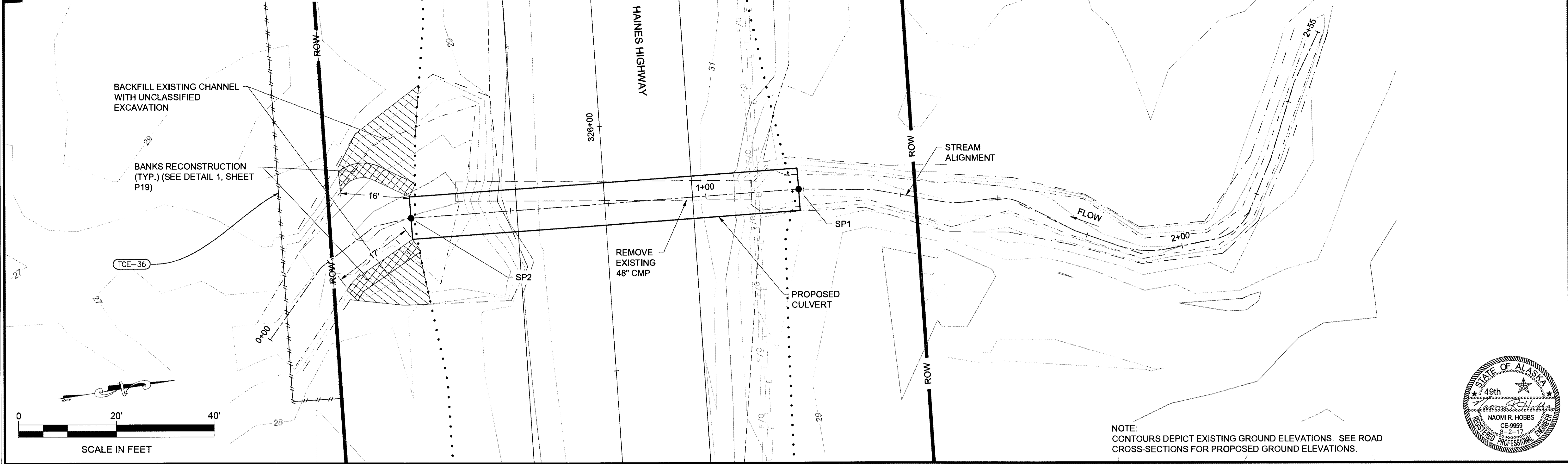
DRAINAGE AREA = 0.60 SQ MI (384 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 169 CFS

UTILITY NOTE:  
 PROTECT AND MAINTAIN FOR SERVICEABILITY

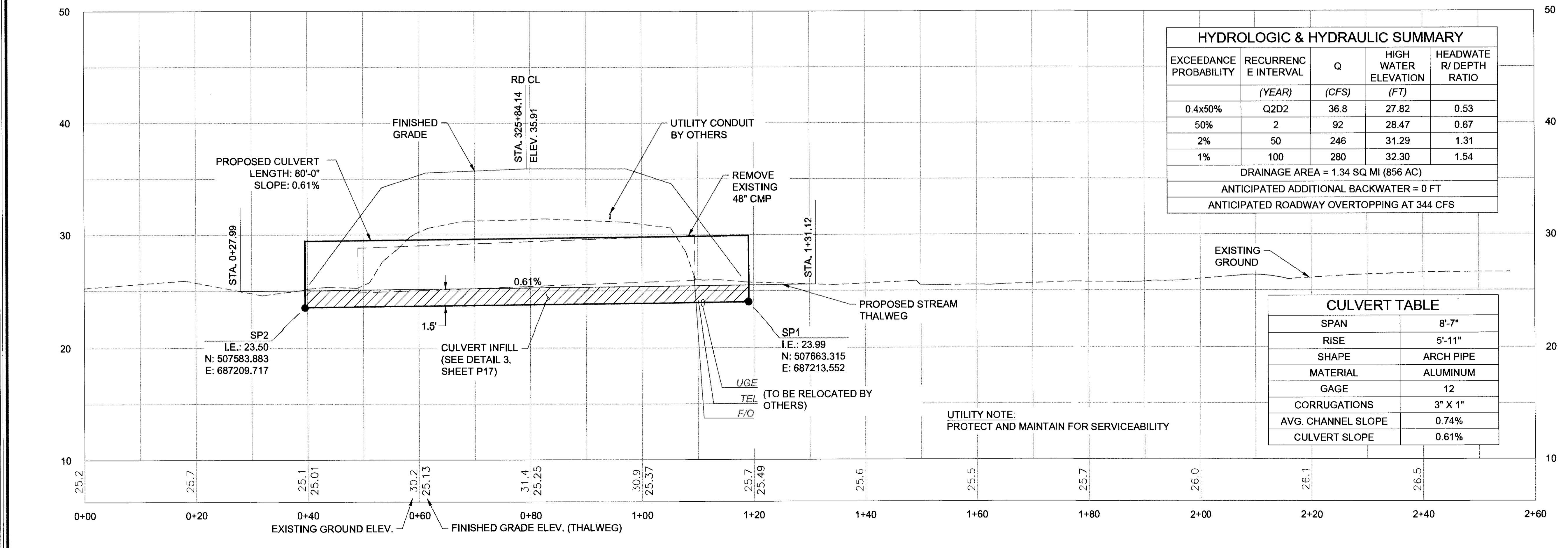
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 ADDRESS 5388 COMMERCIAL BLVD, JUNEAU, AK 99901  
 DATE 6/23/2017 15:56 LAYOUT P7  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH #1 AELR48

# FP - 9: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P7	162



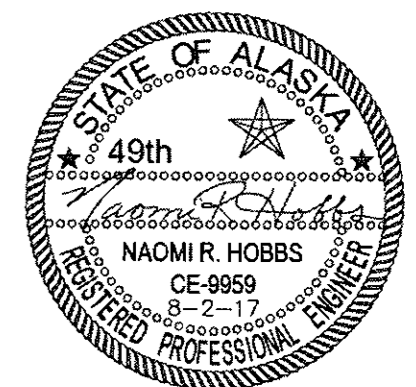
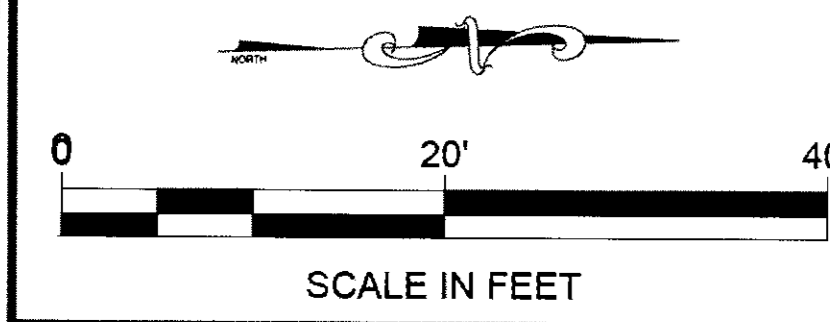
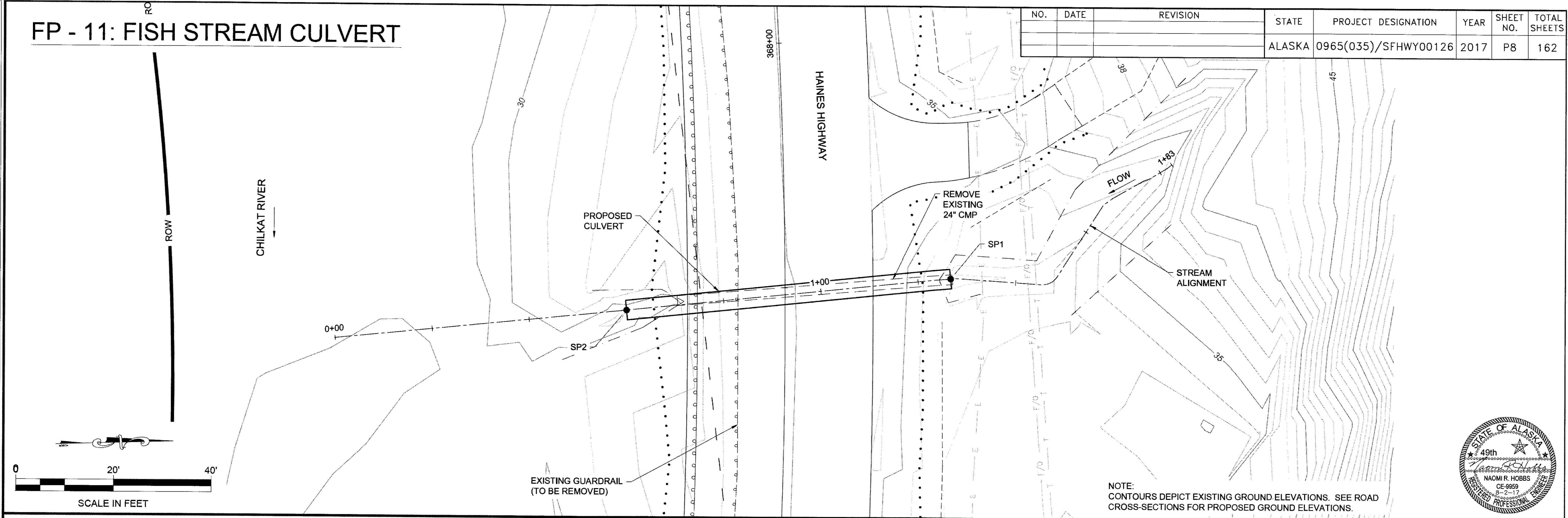
NOTE: CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



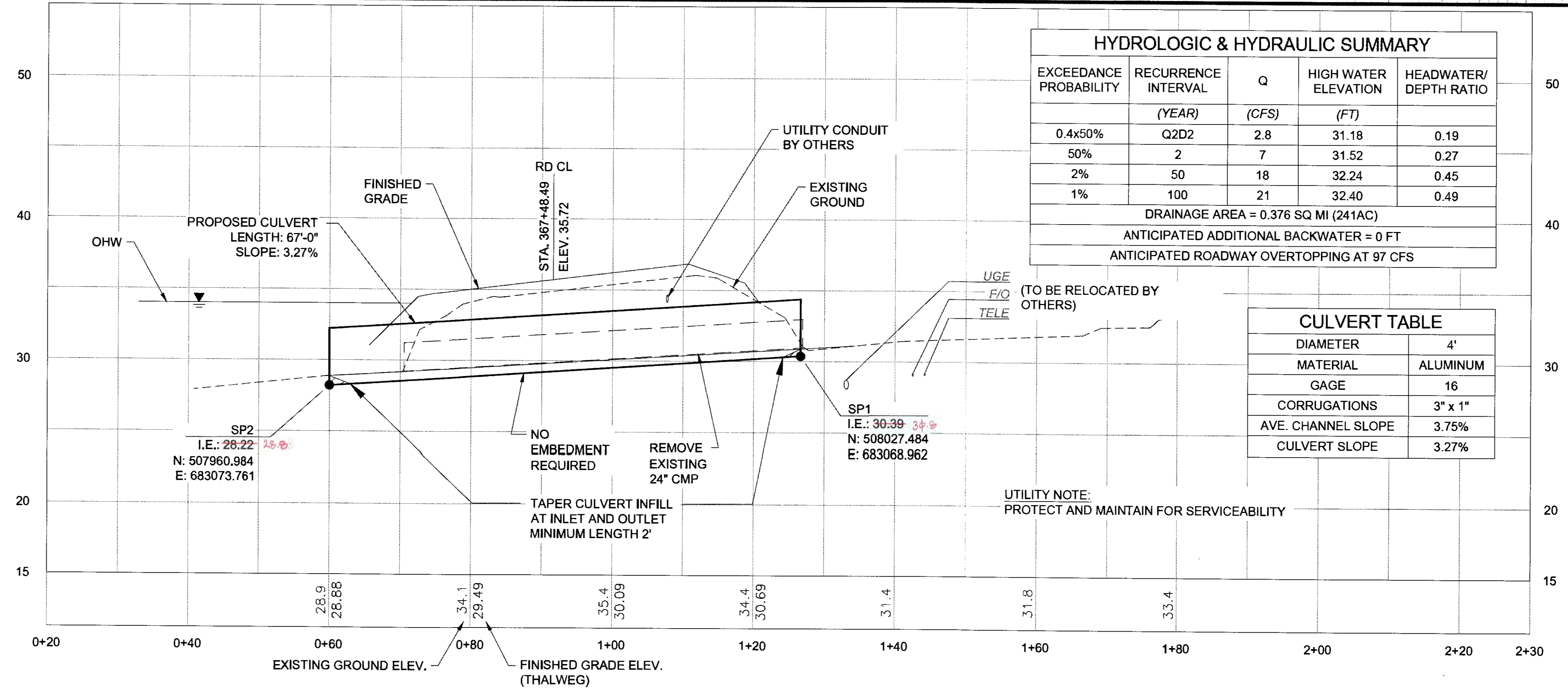
FIRM: DOWL  
 ADDRESS: 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 CERTIFICATE OF AUTH #1: AECLB48  
 DRAFTED: S. TYLER  
 DATE: 6/23/2017 15:56  
 LAYOUT: P8  
 FILE: 0:\24\61850-01\65CAD\WP\_3-12\_PSEP\_SHEETS\VP1-P21.dwg

# FP - 11: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P8	162



NOTE:  
 CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	2.8	31.18	0.19
50%	2	7	31.52	0.27
2%	50	18	32.24	0.45
1%	100	21	32.40	0.49

DRAINAGE AREA = 0.376 SQ MI (241AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 97 CFS

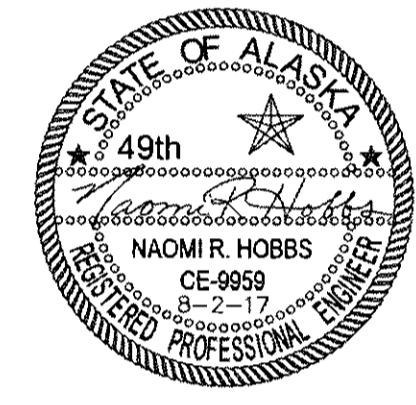
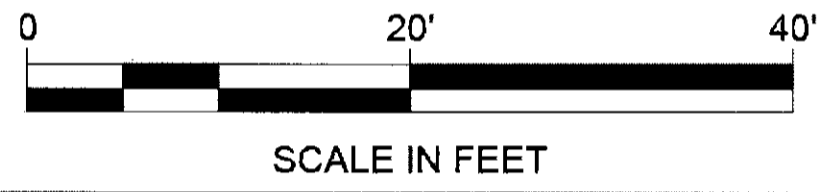
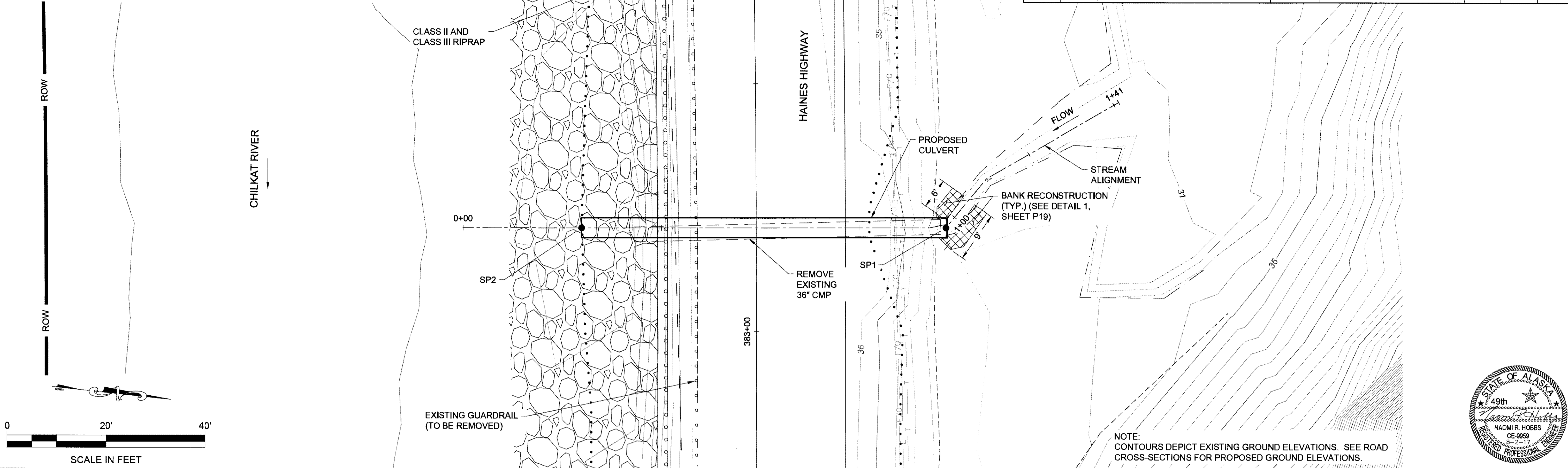
DIAMETER	4'
MATERIAL	ALUMINUM
GAGE	16
CORRUGATIONS	3" x 1"
AVE. CHANNEL SLOPE	3.75%
CULVERT SLOPE	3.27%

UTILITY NOTE:  
 PROTECT AND MAINTAIN FOR SERVICEABILITY

FIRM DOWL  
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 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 6/23/2017 15:56  
 LAYOUT P9  
 CERTIFICATE OF AUTH # : AECL848

# FP - 12: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P9	162

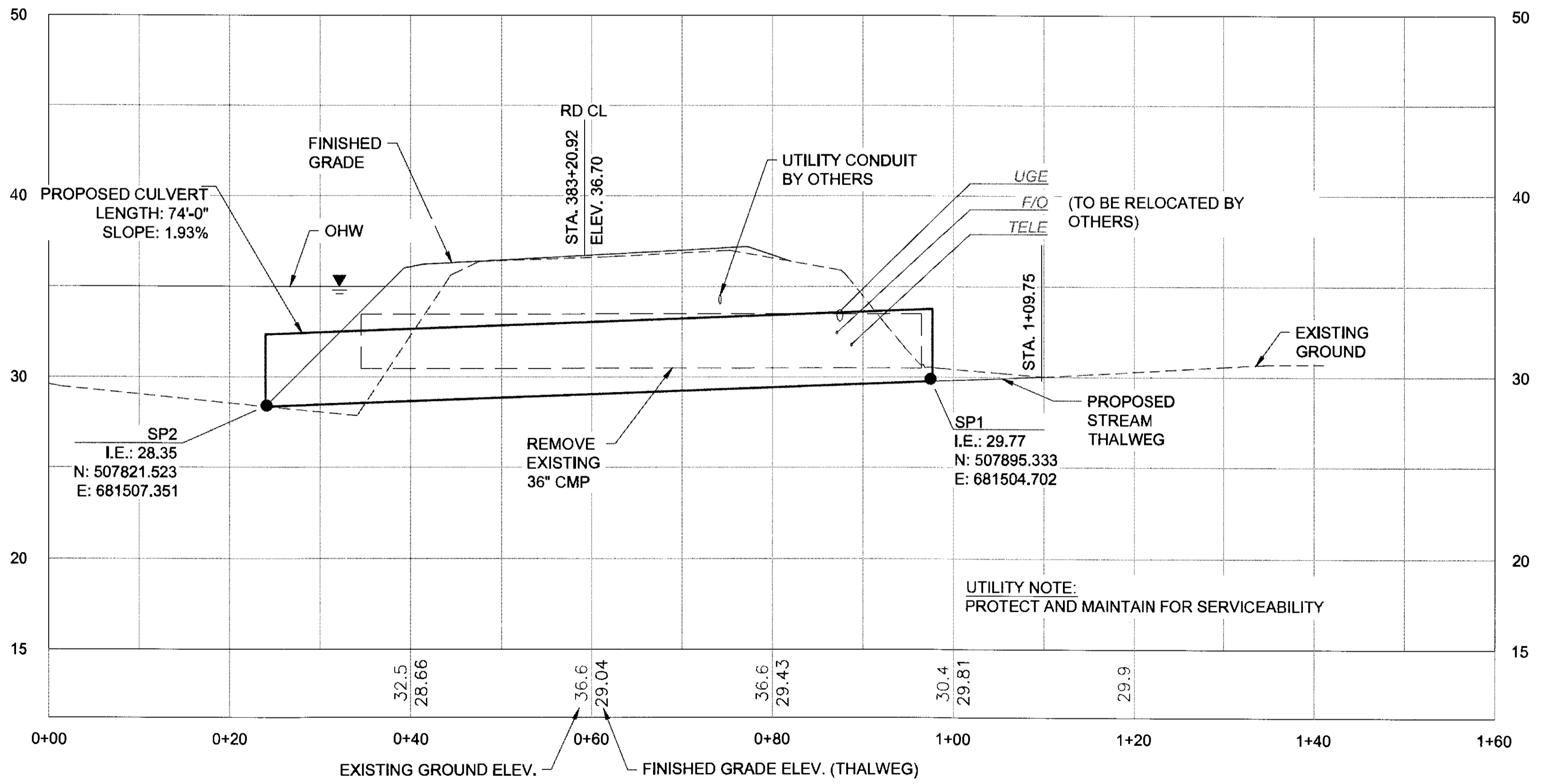


NOTE:  
CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	14.0	31.96	0.57
50%	2	35	32.67	0.74
2%	50	95	35.42	1.43
1%	100	108	36.37	1.67

DRAINAGE AREA = 0.298 SQ MI (191 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 113 CFS

DIAMETER	4'
MATERIAL	ALUMINUM
GAGE	16
CORRUGATIONS	3" x 1"
AVE. CHANNEL SLOPE	1.90%
CULVERT SLOPE	0.85%



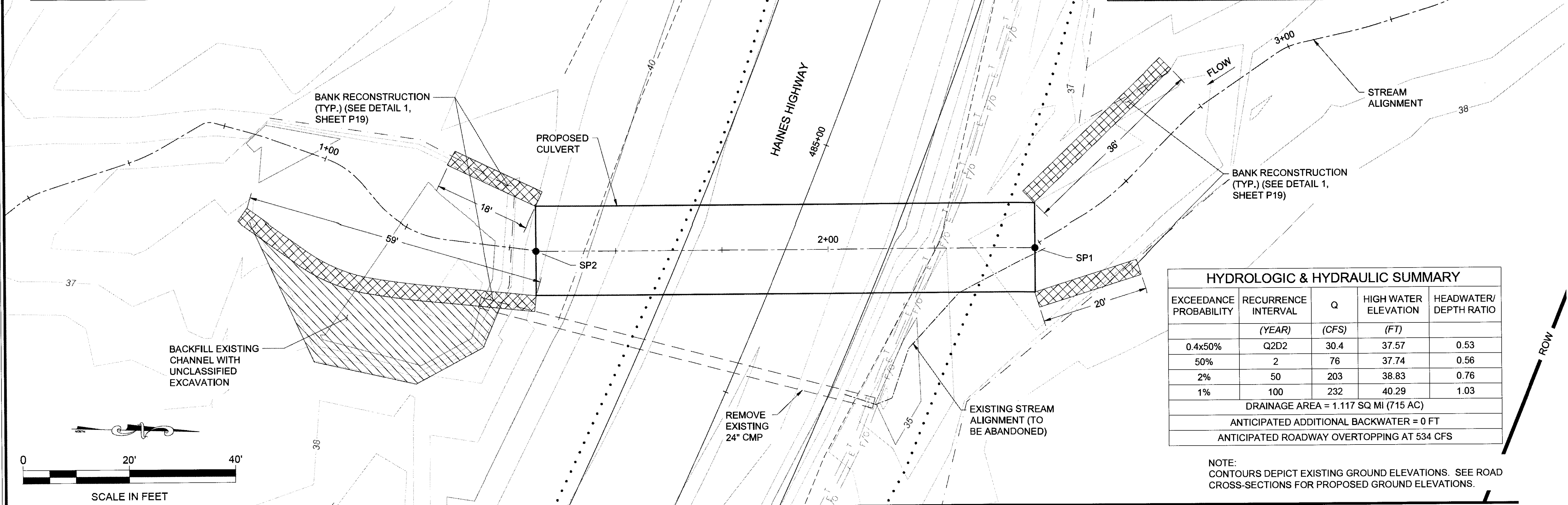
UTILITY NOTE:  
PROTECT AND MAINTAIN FOR SERVICEABILITY



FIRM: DOWL  
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 6/23/2017 15:56 LAYOUT: P10  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1 AECL848

# FP - 14: FISH STREAM CULVERT

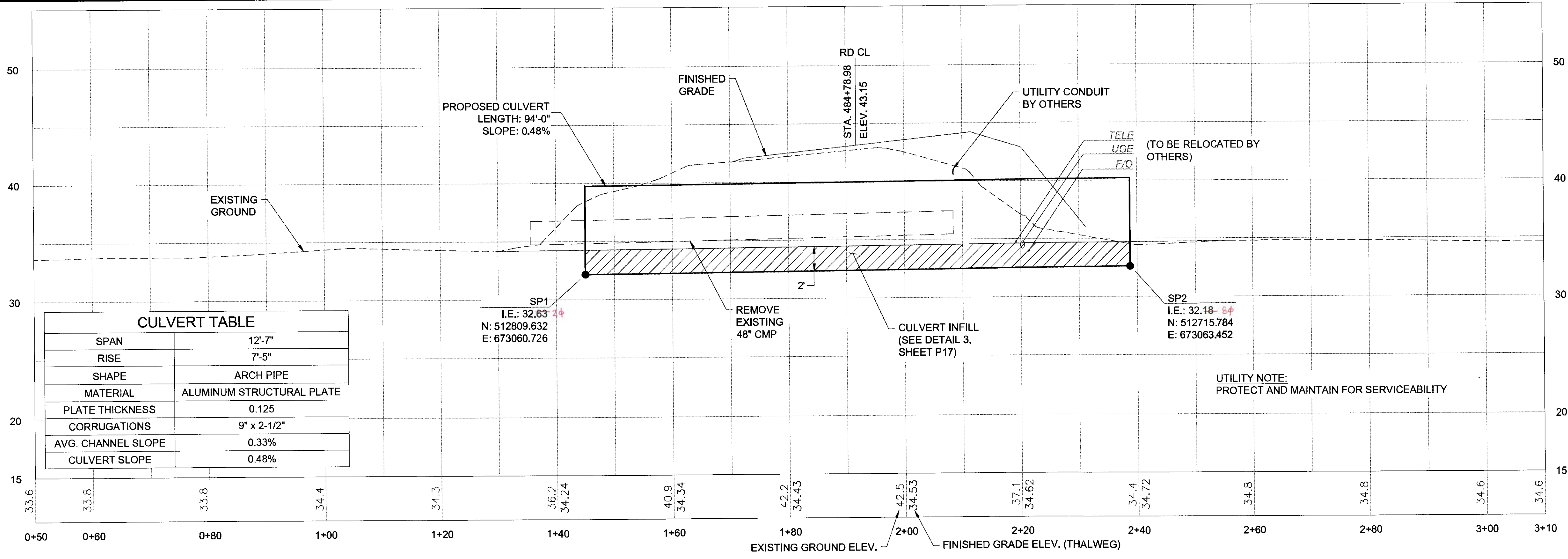
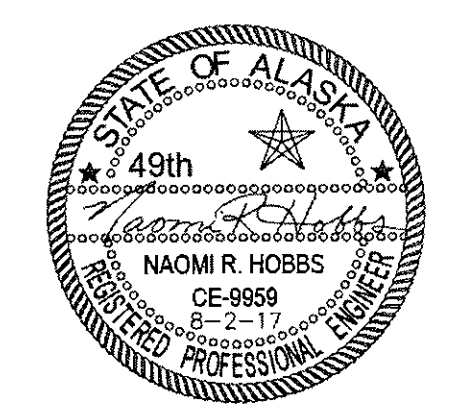
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P10	162



### HYDROLOGIC & HYDRAULIC SUMMARY

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	30.4	37.57	0.53
50%	2	76	37.74	0.56
2%	50	203	38.83	0.76
1%	100	232	40.29	1.03

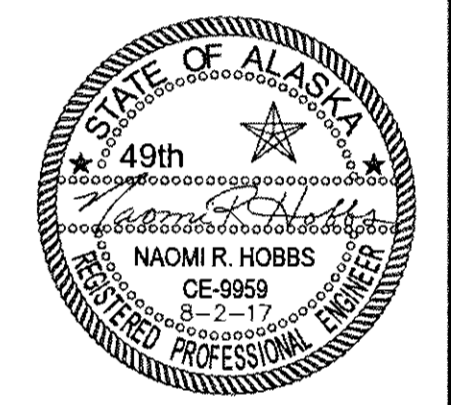
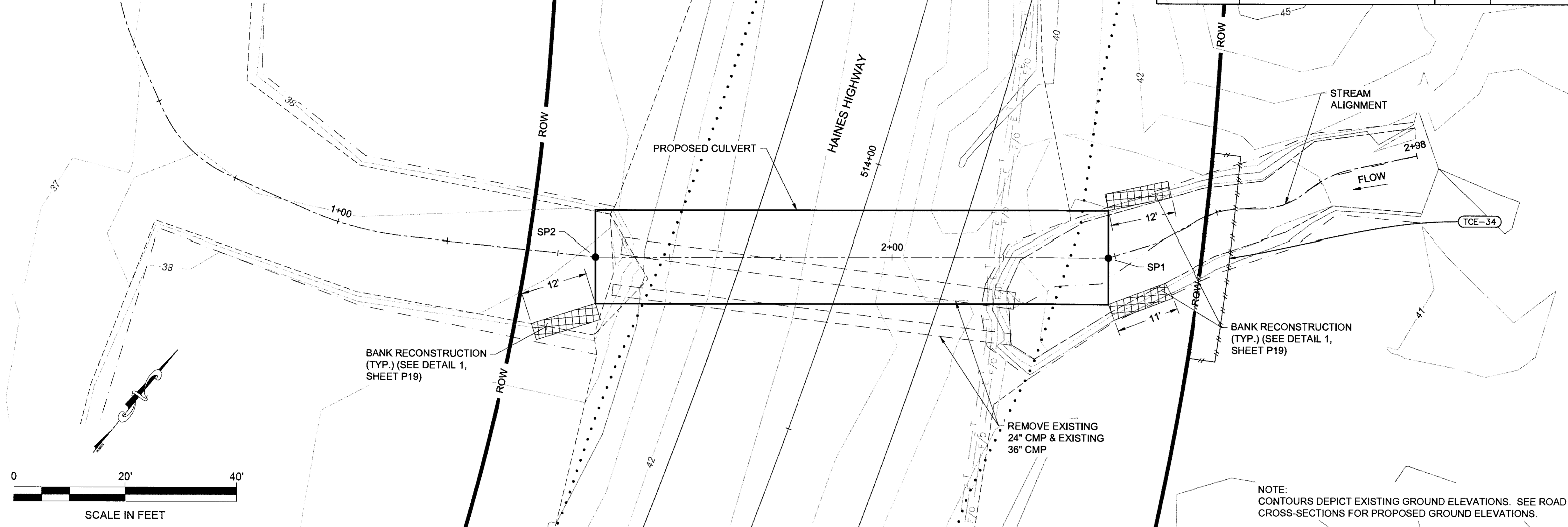
DRAINAGE AREA = 1.117 SQ MI (715 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 534 CFS



FIRM: DOWL  
 FILE: O:\24\1850-01\BSCAD\MP 3-12 PSE\P SHEETS\PI-1-P21.dwg  
 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 DATE: 6/23/2017 15:56  
 LAYOUT: P11

# FP - 15: FISH STREAM CULVERT

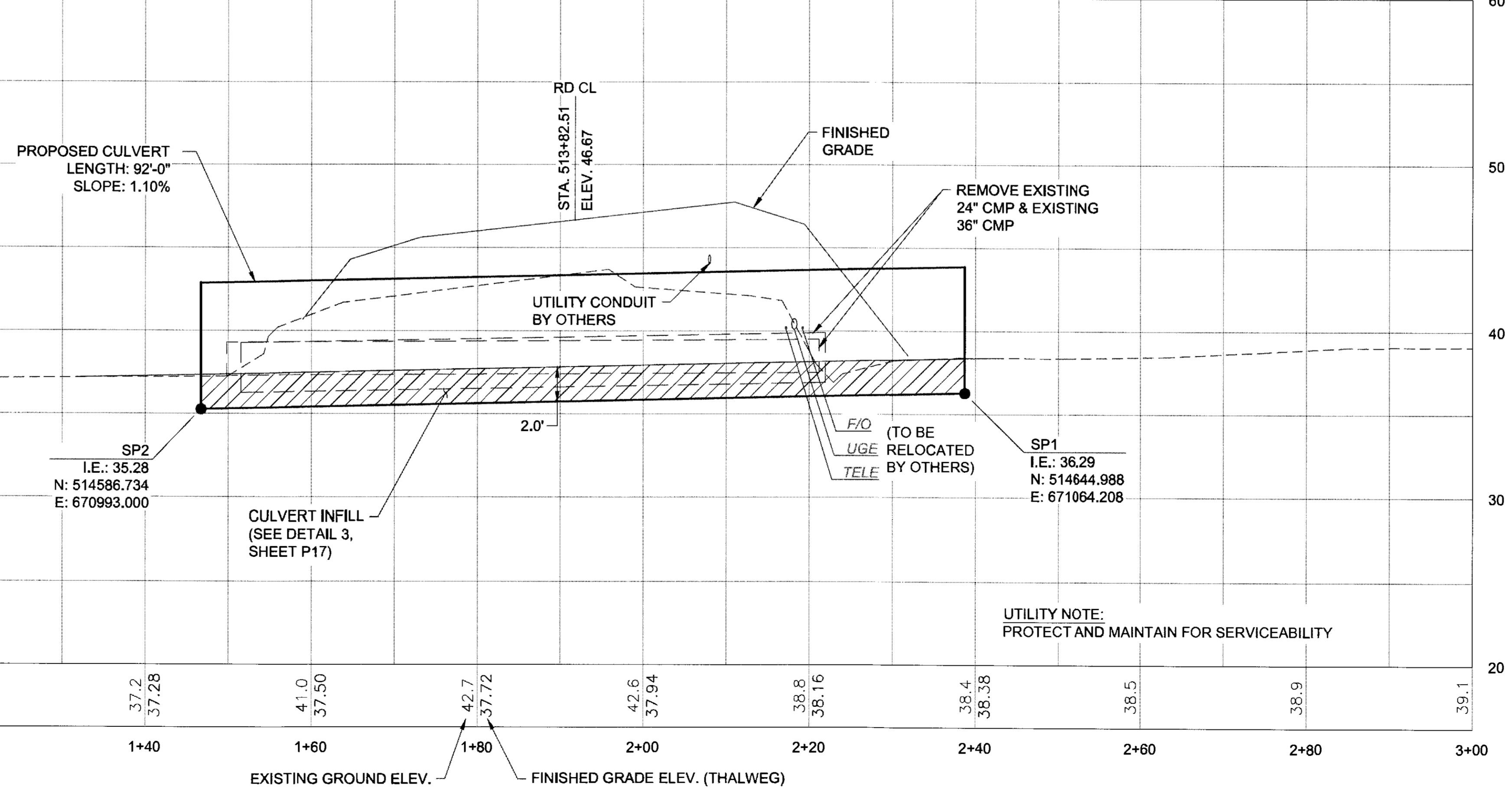
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P11	162



EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	29.2	39.39	0.20
50%	2	73.0	40.22	0.36
2%	50	193	41.13	0.53
1%	100	220	42.61	0.80

DRAINAGE AREA = 1.664 SQ MI (1065 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 561 CFS

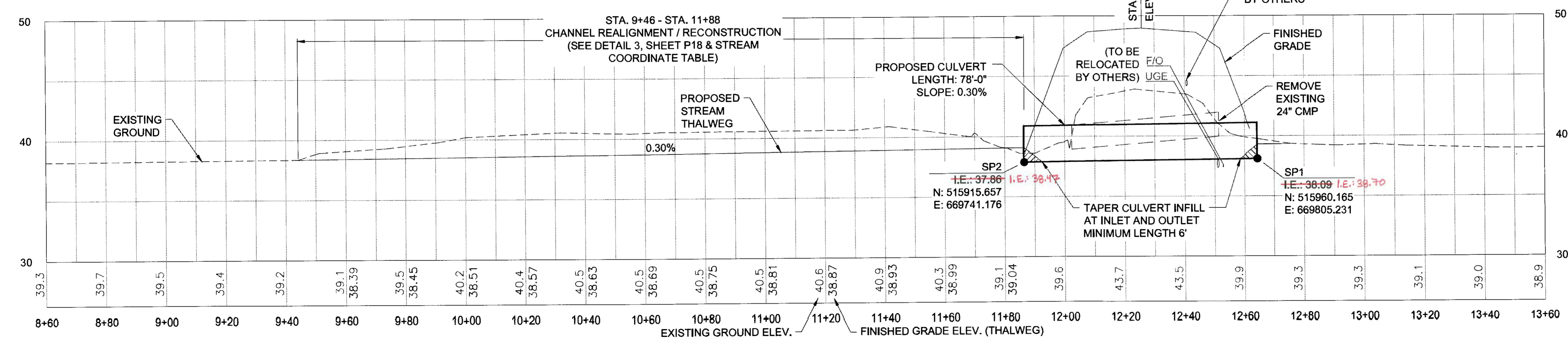
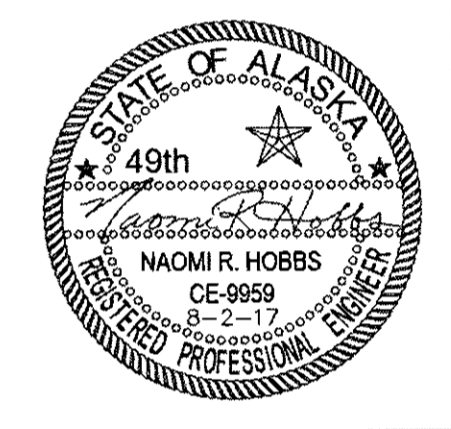
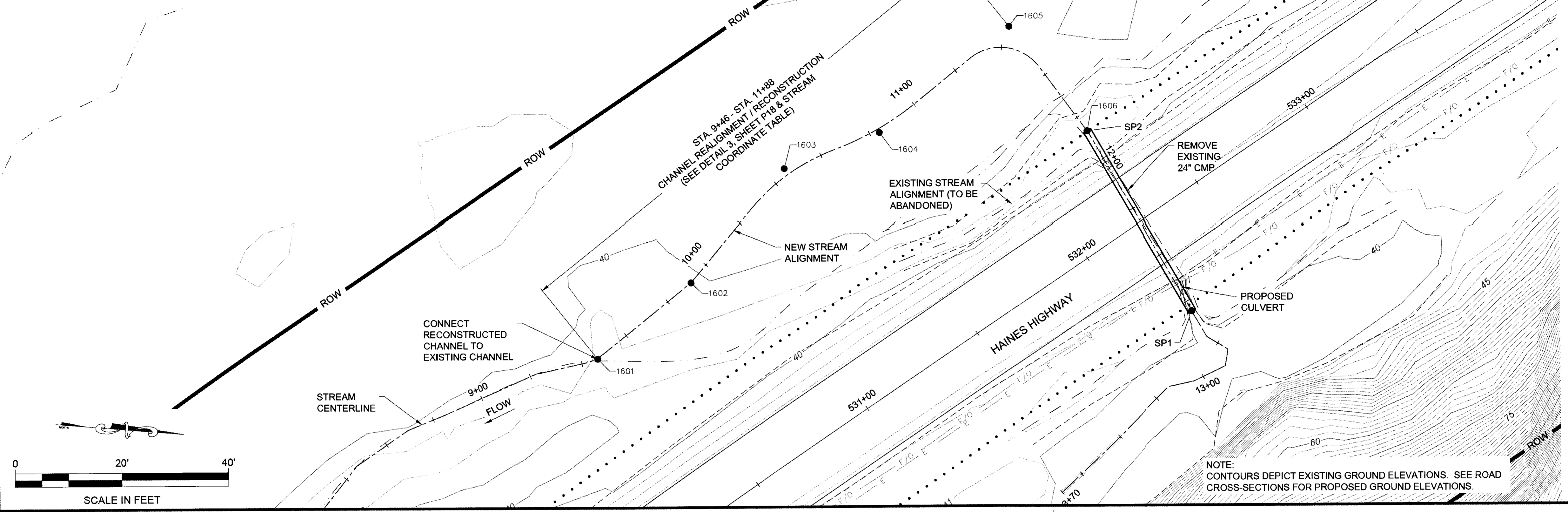
SPAN	12'-7"
RISE	7'-5"
SHAPE	ARCH PIPE
MATERIAL	ALUMINUM STRUCTURAL PLATE
PLATE THICKNESS	0.125"
CORRUGATIONS	9" x 2-1/2"
AVG. CHANNEL SLOPE	1.08%
CULVERT SLOPE	1.10% - 1.08%



CERTIFICATE OF AUTH # : AECL848  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER  
 PHONE (907) 780-3533  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 6/23/2017 15:56 LAYOUT P12  
 FILE 0:\2A\61850-01\65CAD\WP\_3-12\_PSEP\_SHEETS\VP1-P21.dwg  
 FIRM DOWL

# FP - 16: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P12	162



POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1601	515739.18	669840.31	38.35	BEGIN CHANNEL RECONSTRUCTION
1602	515771.83	669809.01	37.83	PI (R36')
1603	515803.54	669764.05	38.65	PI (R75')
1604	515838.09	669747.86	38.29	PI (R107')
1605	515883.53	669704.51	38.93	PI (R18')

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1606	515915.66	669741.21	16.64	END CHANNEL RECONSTRUCTION

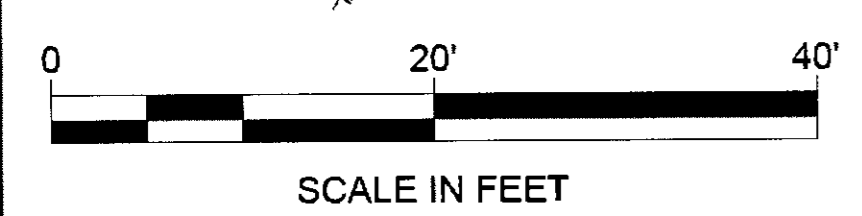
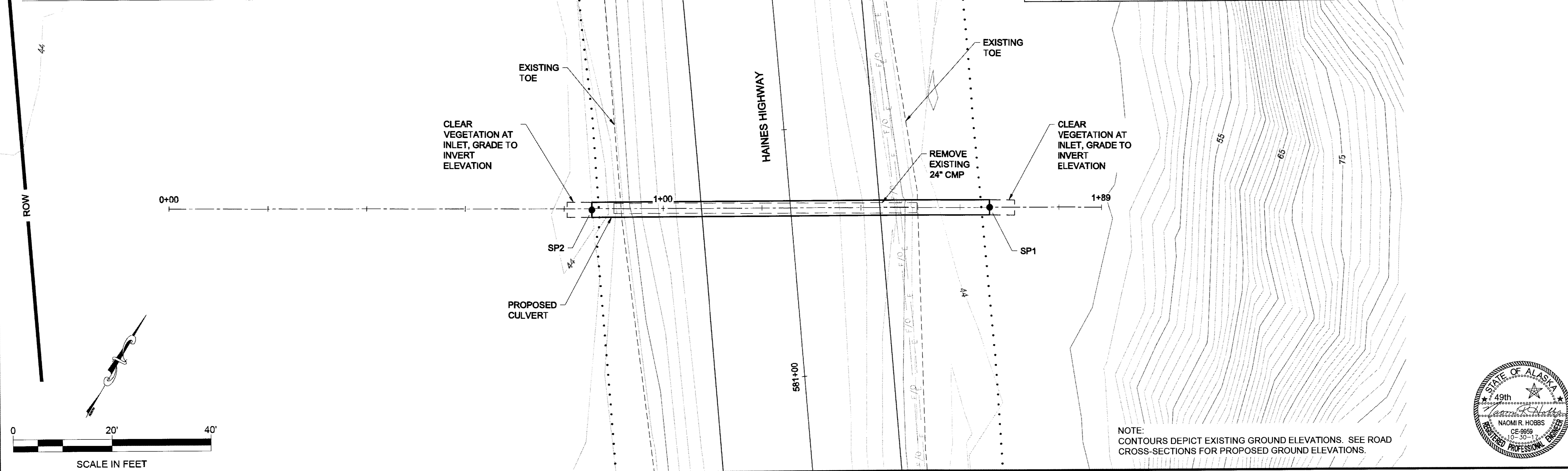
DIAMETER	3'
MATERIAL	ALUMINUM
GAGE	16
CORRUGATIONS	3" x 1"
AVG. CHANNEL SLOPE	0.19%
CULVERT SLOPE	0.30% <del>0.29</del>

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	2.8	39.94	0.36
50%	2	7	40.43	0.63
2%	50	18	41.74	1.36
1%	100	21	42.26	1.65
DRAINAGE AREA = 0.270 SQ MI (173 AC)				
ANTICIPATED ADDITIONAL BACKWATER = 0 FT				
ANTICIPATED ROADWAY OVERTOPPING AT 36 CFS				

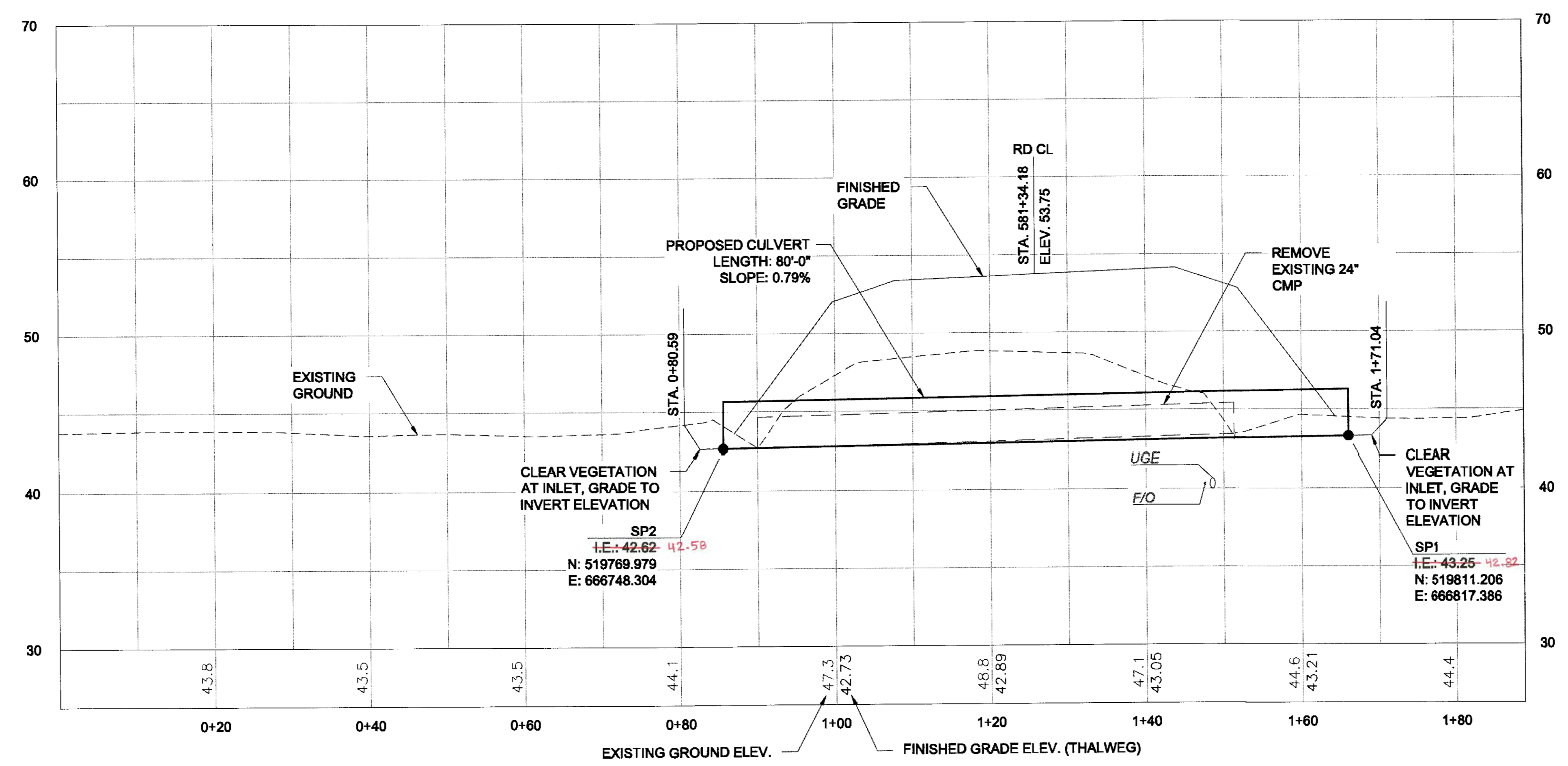
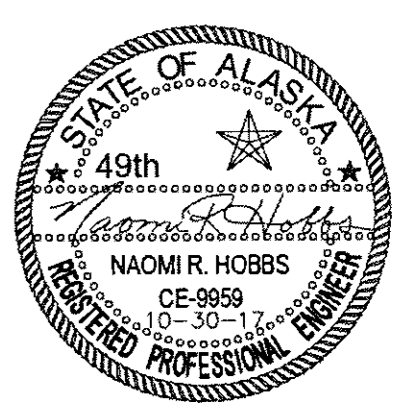
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 10/30/2017 11:10 LAYOUT P12A  
 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1 AECLB48

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	10-30-2017	ADDED FP-35	ALASKA	0965(035)/SFHWY00126	2017	P12A	162

# FP - 35: FISH STREAM CULVERT



NOTE: CONTOURS DEPICT EXISTING GROUND ELEVATIONS. SEE ROAD CROSS-SECTIONS FOR PROPOSED GROUND ELEVATIONS.



DIAMETER	3'
MATERIAL	ALUMINUM
GAGE	16
CORRUGATIONS	3" x 1"
AVG. CHANNEL SLOPE	0.33%
CULVERT SLOPE	-0.79% 0.30%

EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATER/DEPTH RATIO
0.4x50%	Q2D2	2.8	44.83	0.21
50%	2	7	45.31	0.48
2%	50	18	46.29	1.02
1%	100	21	46.56	1.17

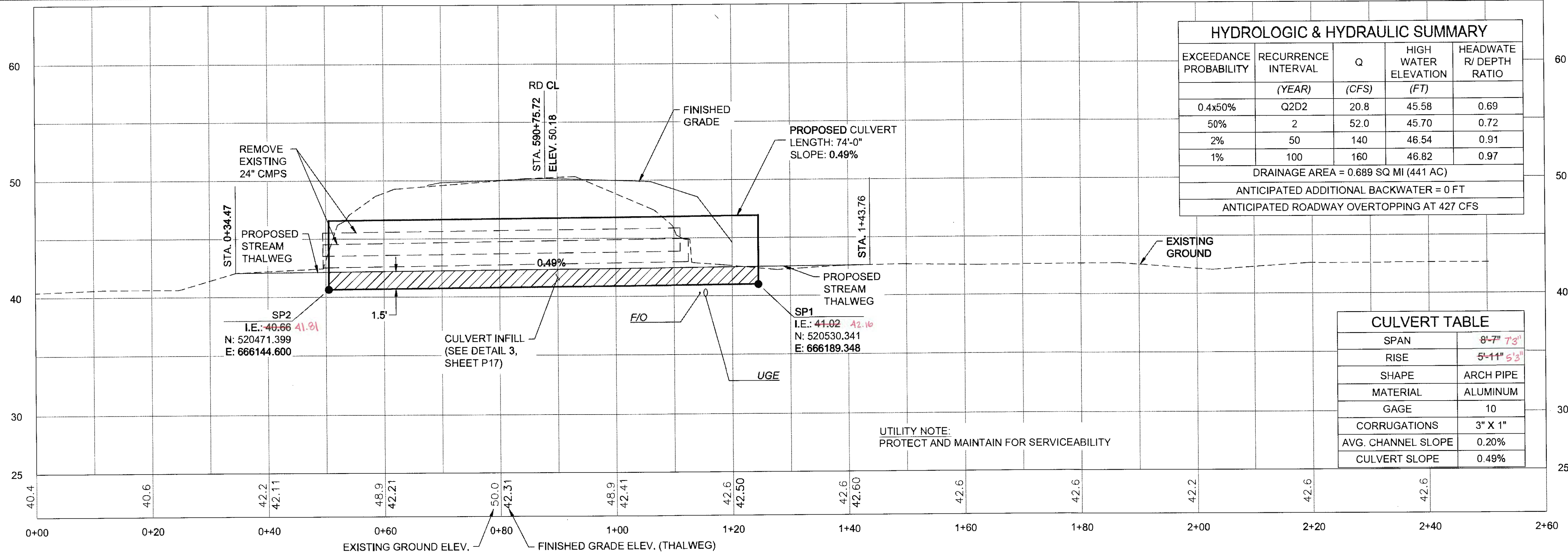
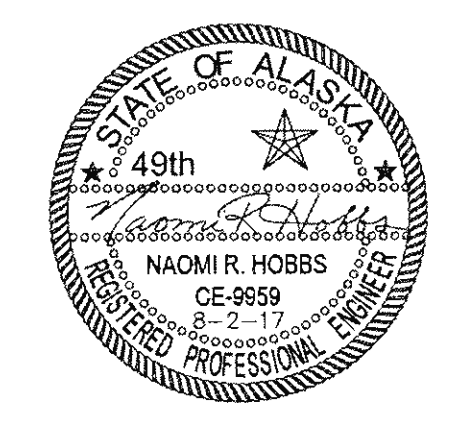
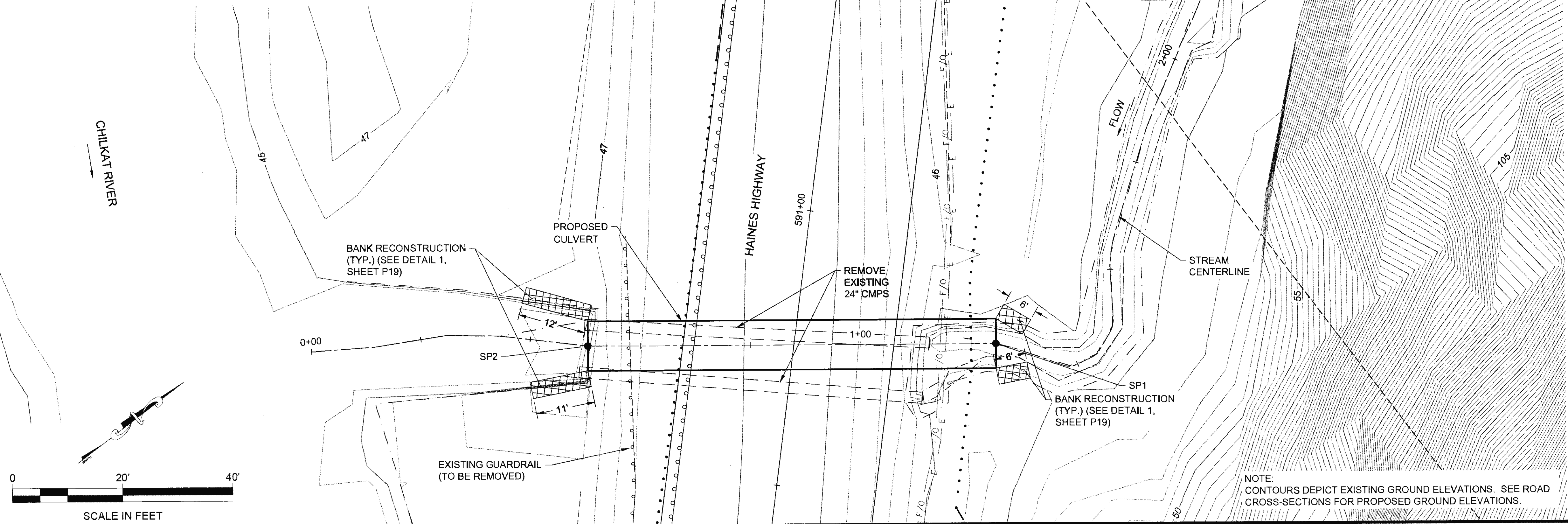
DRAINAGE AREA = 0.297 SQ MI (190 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 53.21 CFS

UTILITY NOTE:  
PROTECT AND MAINTAIN FOR SERVICEABILITY

F:\RM\DWL  
 FILE 0:\24\61850-01\BSCAD\WP 3-12 PSEP SHEETS\VP1-P21.dwg  
 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 DATE 6/23/2017 15:56 LAYOUT P13  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECLB48

# FP - 17: FISH STREAM CULVERT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P13	162

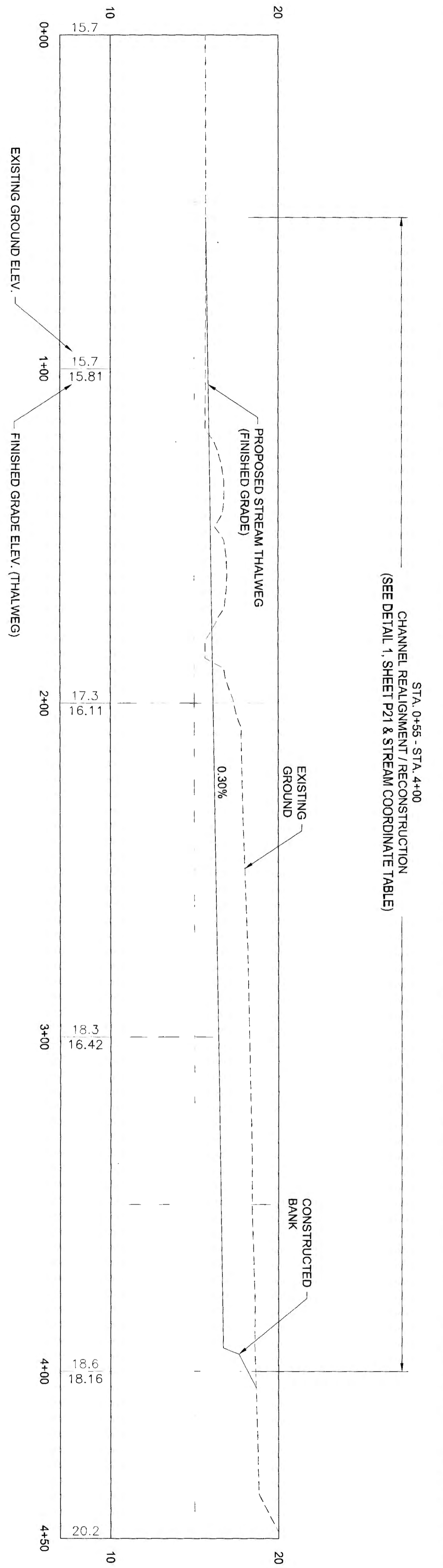
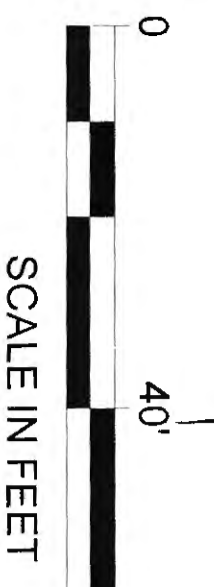
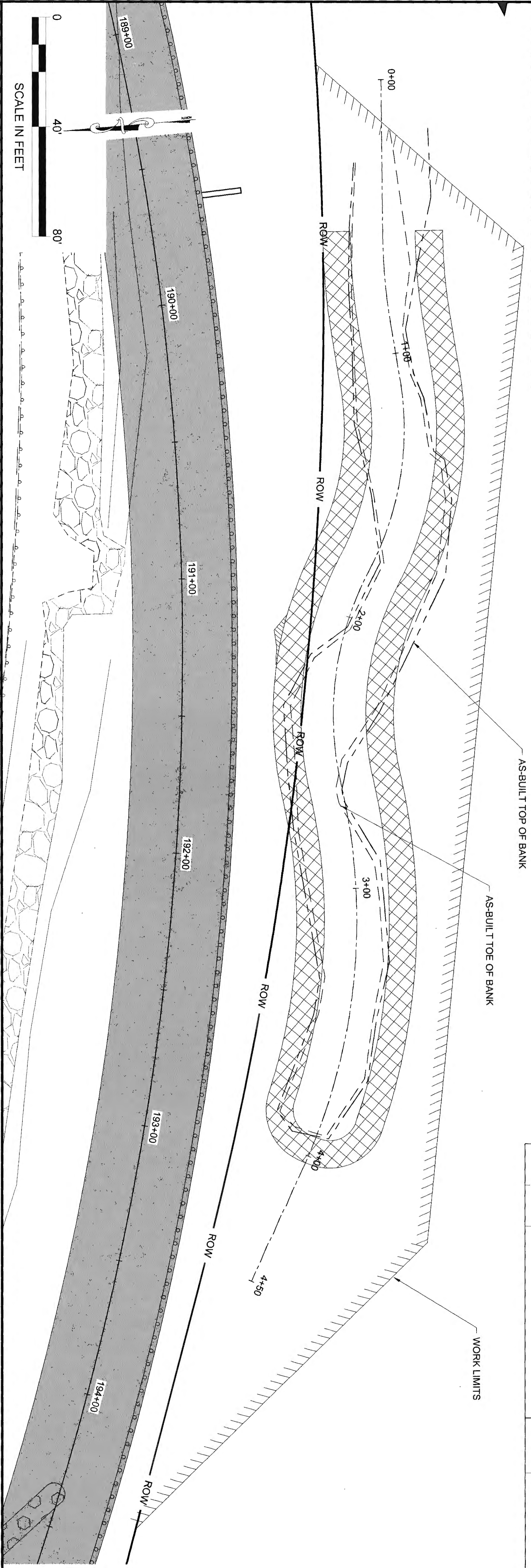


EXCEEDANCE PROBABILITY	RECURRENCE INTERVAL (YEAR)	Q (CFS)	HIGH WATER ELEVATION (FT)	HEADWATE R/ DEPTH RATIO
0.4x50%	Q2D2	20.8	45.58	0.69
50%	2	52.0	45.70	0.72
2%	50	140	46.54	0.91
1%	100	160	46.82	0.97

DRAINAGE AREA = 0.689 SQ MI (441 AC)  
 ANTICIPATED ADDITIONAL BACKWATER = 0 FT  
 ANTICIPATED ROADWAY OVERTOPPING AT 427 CFS

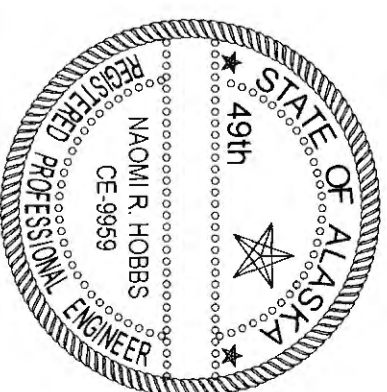
SPAN	8'-7" 7'3"
RISE	5'-11" 5'3"
SHAPE	ARCH PIPE
MATERIAL	ALUMINUM
GAGE	10
CORRUGATIONS	3" X 1"
AVG. CHANNEL SLOPE	0.20%
CULVERT SLOPE	0.49%

# STREAM MITIGATION SITE 1



CHANNEL REALIGNMENT / RECONSTRUCTION  
(SEE DETAIL 1, SHEET P21 & STREAM COORDINATE TABLE)

STA. 0+55 - STA. 4+00

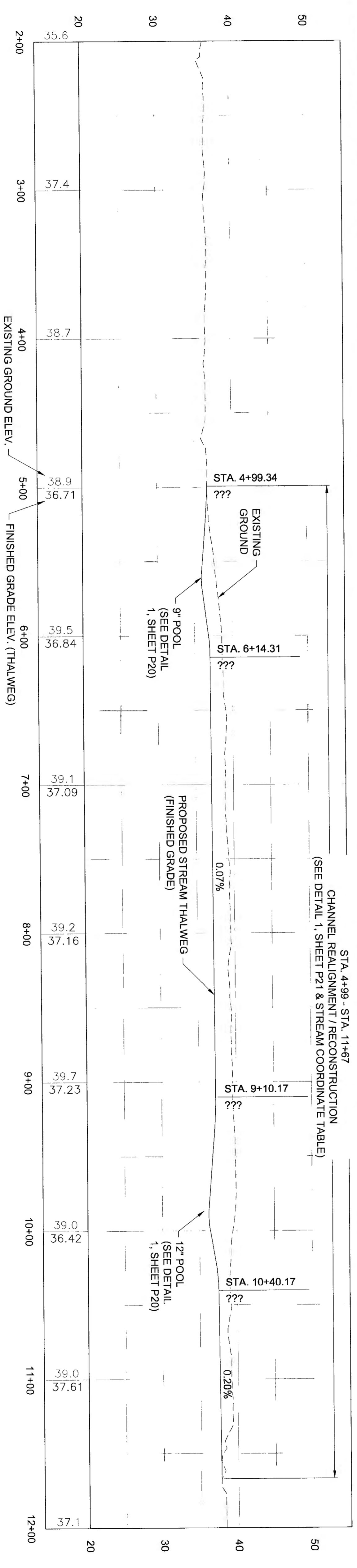
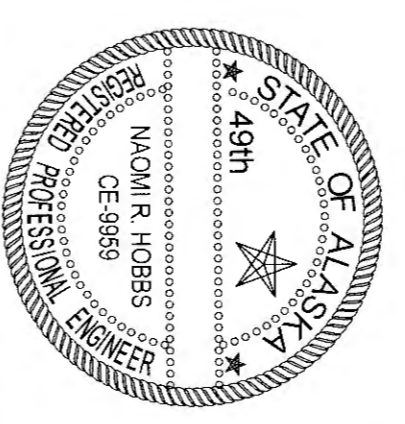
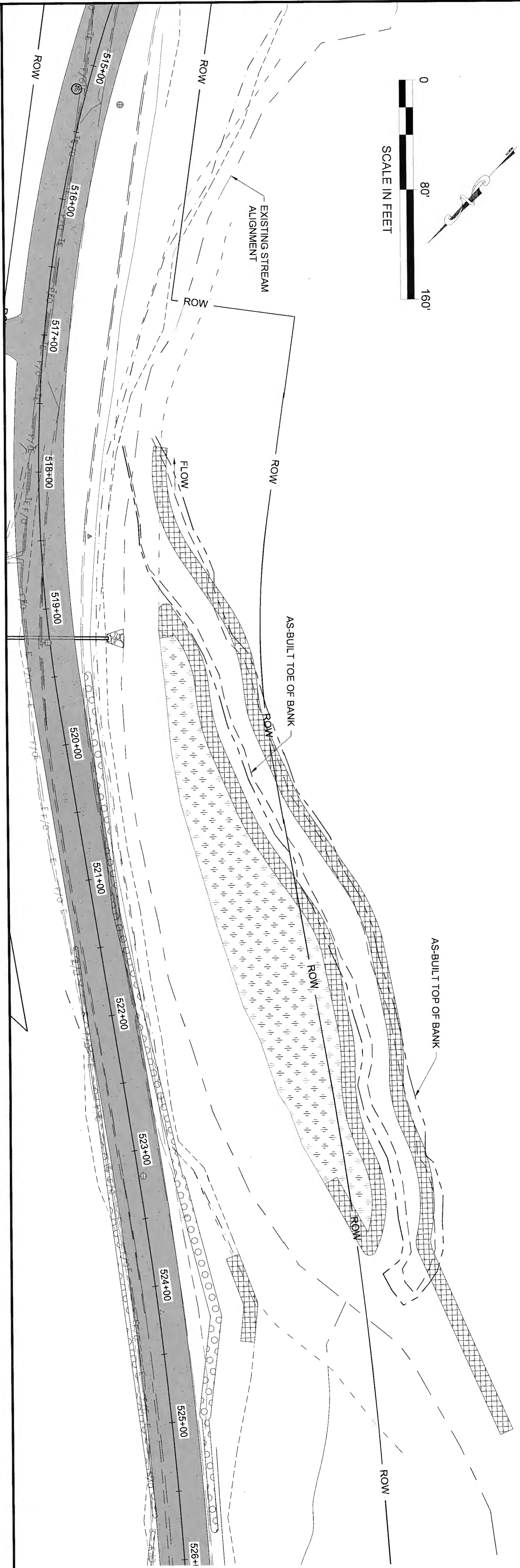
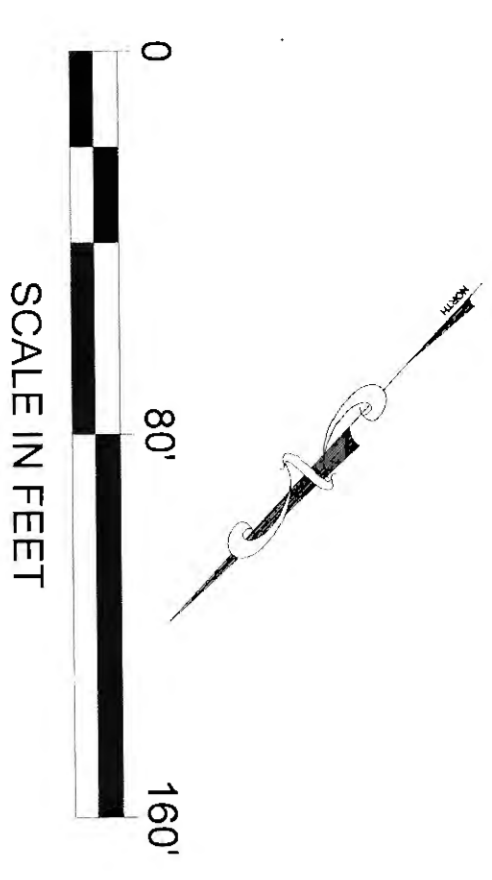


4-20-21

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P14	162

# STREAM MITIGATION SITE 2

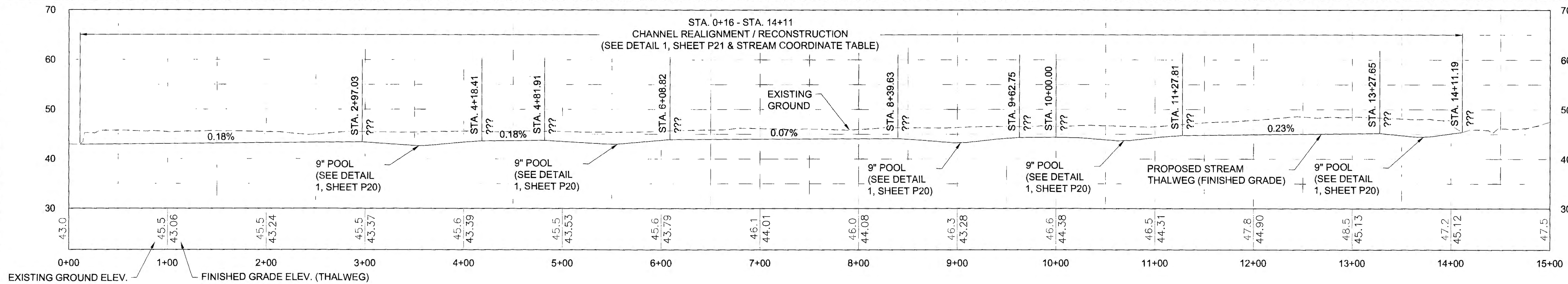
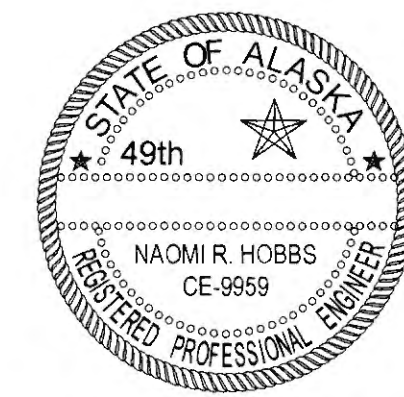
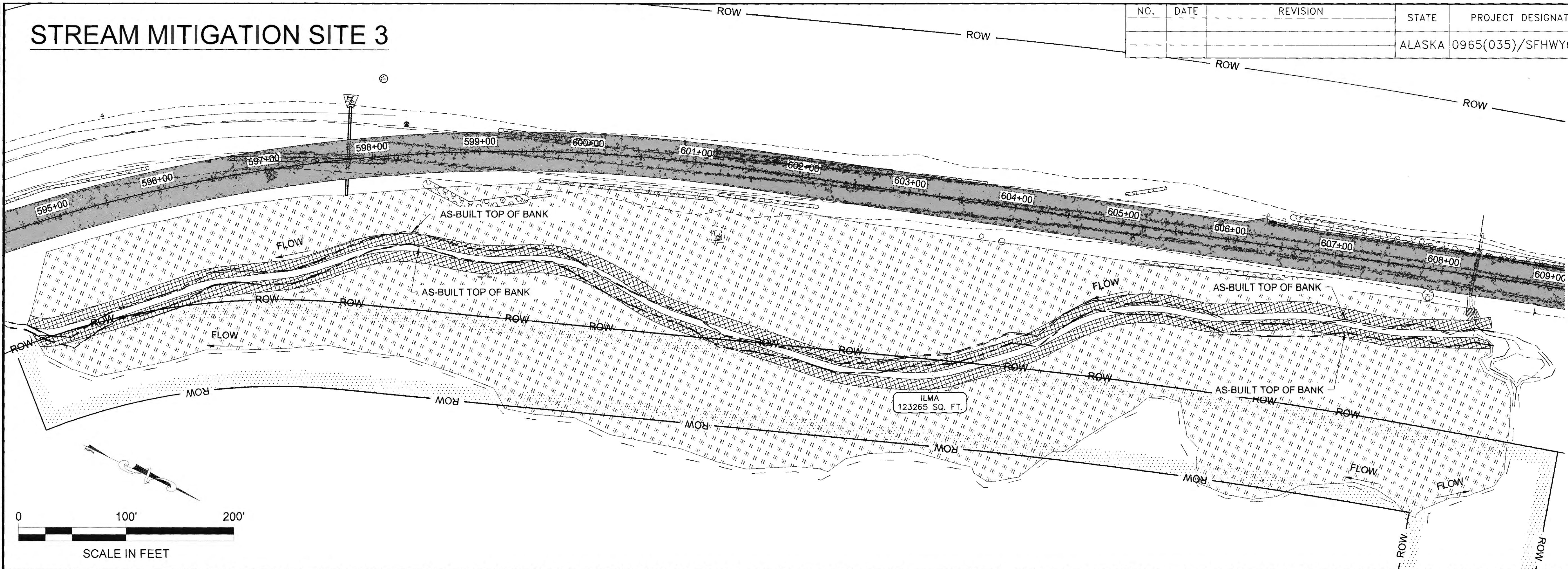
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P15	162



TKA 4-26-21

# STREAM MITIGATION SITE 3

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P16	162



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 ADDRESS: 5366 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE: 12/3/2020 15:45 LAYOUT P16  
 PHONE: (907) 780-3533  
 DESTONED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH #1: AECL848

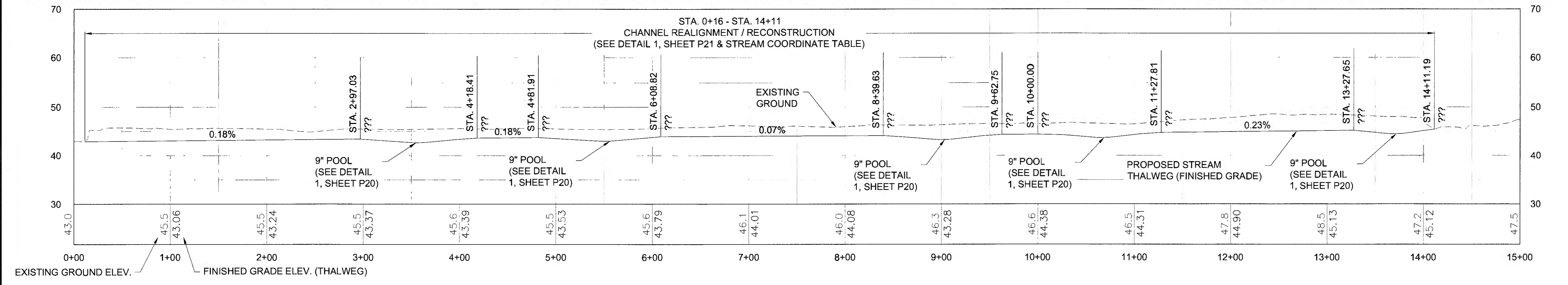
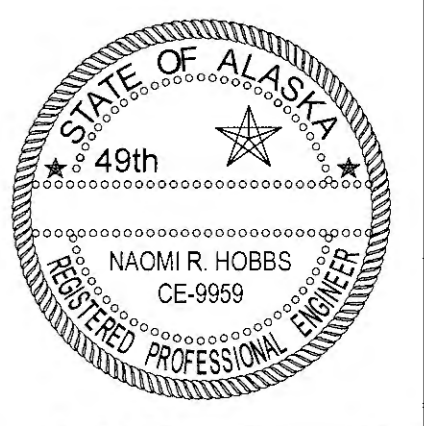
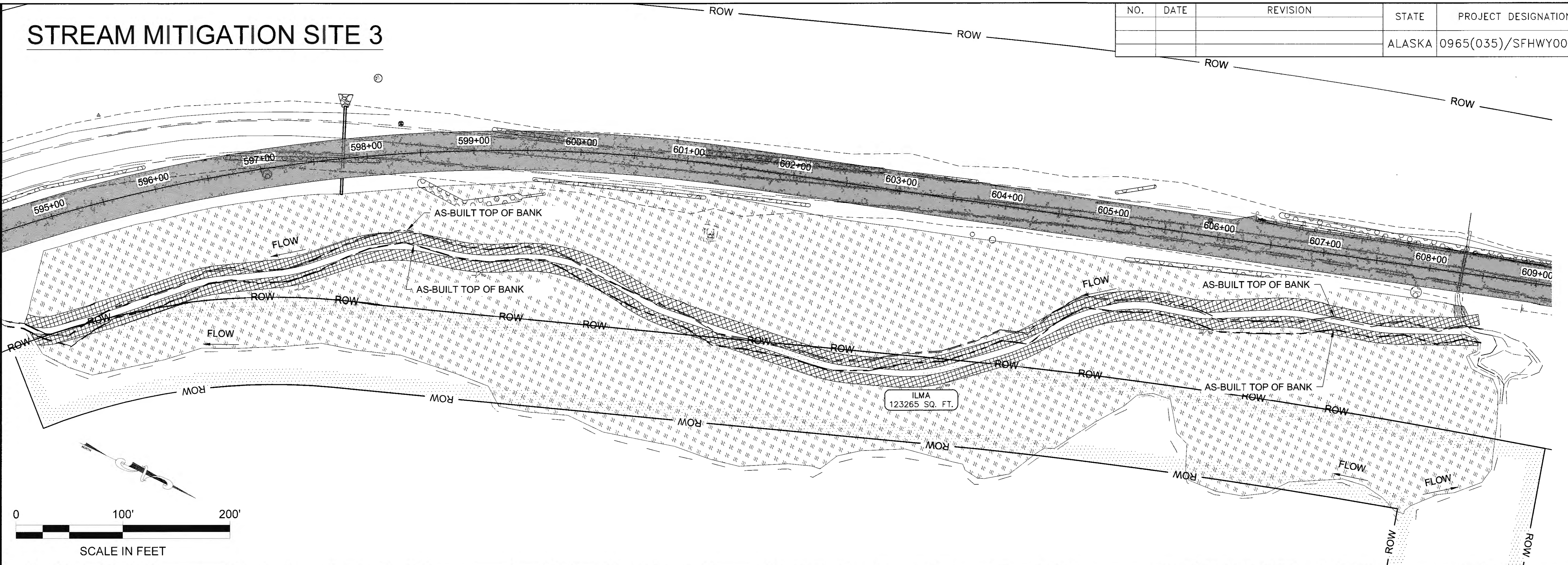
TKW 4-20-21



FIRM DOWL  
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 ADDRESS 5368 COMMERCIAL BLVD, JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 12/3/2020 15:45  
 LAYOUT P16

# STREAM MITIGATION SITE 3

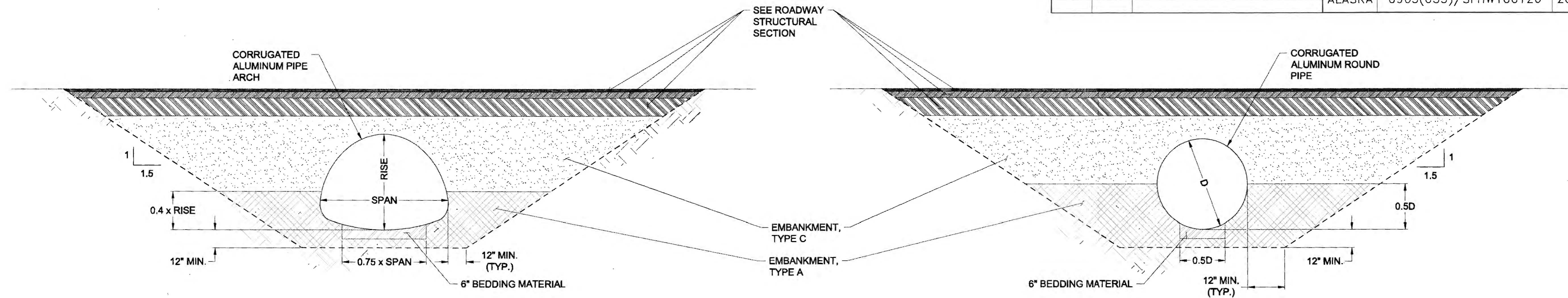
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P16	162



TKus 4-20-21

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
①	10-30-2017	REVISED SHEET TITLE	ALASKA	0965(035)/SFHWY00126	2017	P17	162

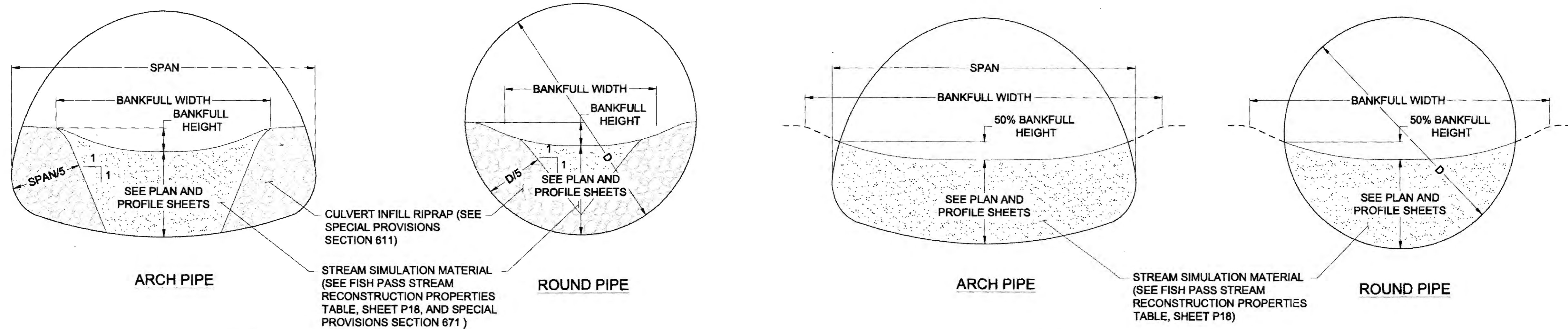
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 DATE 10/30/2017 11:10 LAYOUT P17  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER



ARCH PIPE

ROUND PIPE

1 TYPICAL CULVERT CROSS-SECTION  
NTS



ARCH PIPE

ROUND PIPE

ARCH PIPE

ROUND PIPE

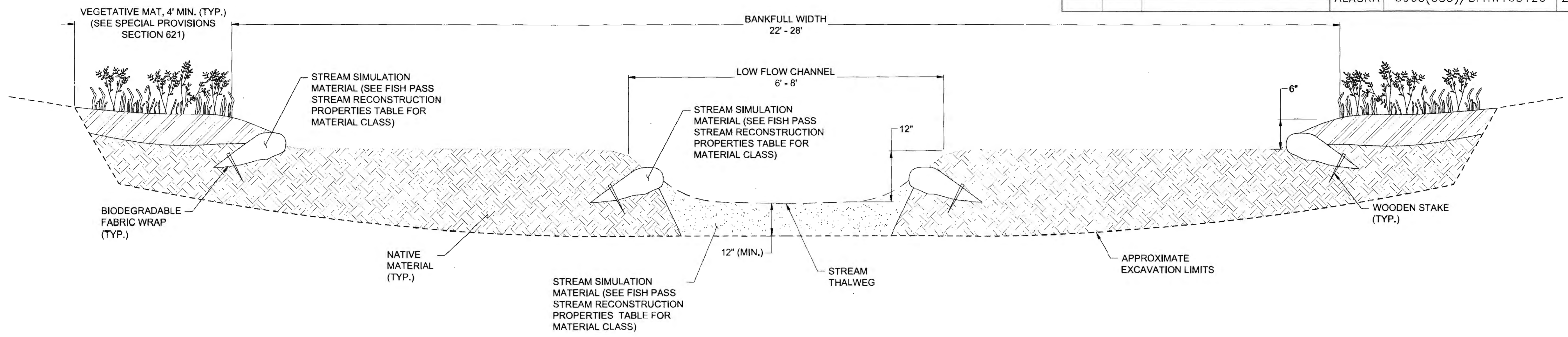
2 CULVERT INFILL WITH RIPRAP BANKS  
NTS

3 CULVERT INFILL WITHOUT RIPRAP BANKS  
NTS

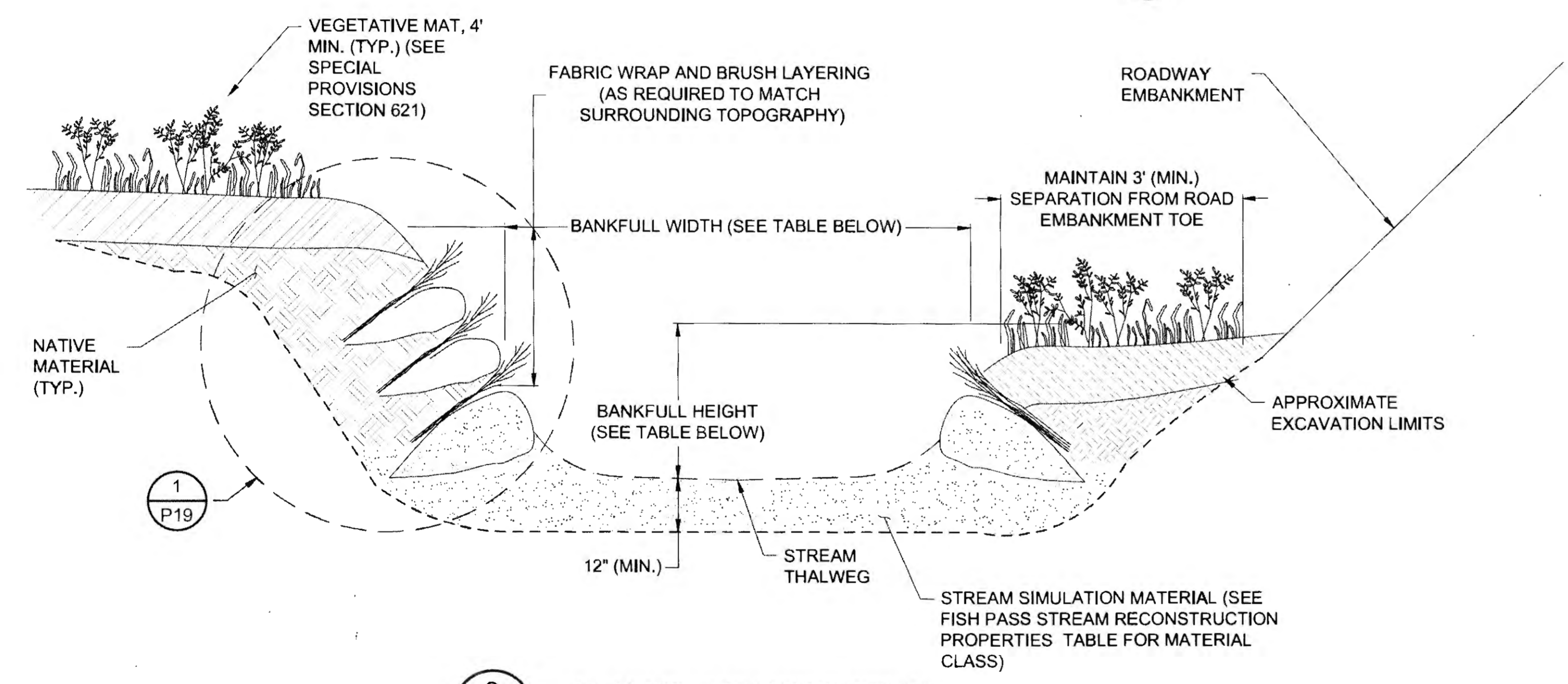
**NOTE:**  
SEE DETAIL 2 ON SHEET P18 FOR BANKFULL WIDTHS AND HEIGHTS.

PLANS DEVELOPED BY: DOWL 5365 COMMERCIAL BLVD. JUNEAU, AK 99801 (907) 780-3533 #AECL848		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES <b>HAINES HIGHWAY RECONSTRUCTION</b> MILEPOST 3.9 TO 12.2 <b>FISH PASSAGE CULVERT                  DETAILS</b>
--	--	--

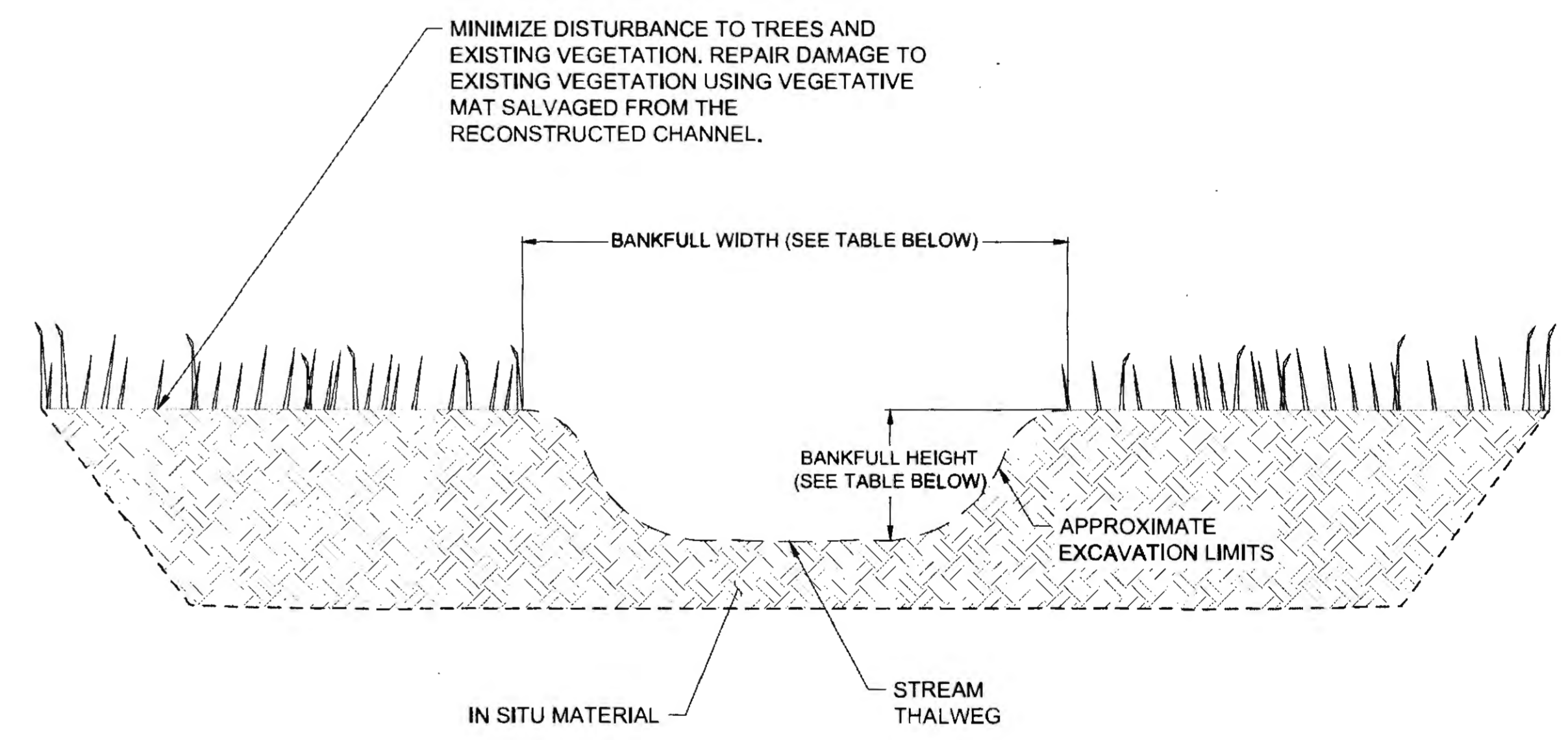
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P18	162



1  
P18  
FP-3 CHANNEL CONSTRUCTION  
NTS



2  
P18  
CHANNEL RECONSTRUCTION

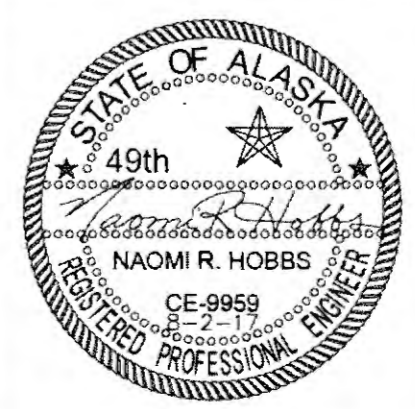


3  
P18  
FP-5 AND FP-16 CHANNEL EXCAVATION

FISH PASS STREAM RECONSTRUCTION PROPERTIES											
SITE	BANKFULL WIDTH (FT)	BANKFULL HEIGHT (IN)			STREAM SIMULATION MATERIAL CLASS	SITE	BANKFULL WIDTH (FT)	BANKFULL HEIGHT (IN)			STREAM SIMULATION MATERIAL CLASS
		UPSTREAM*	DOWNSTREAM*	RECONSTRUCTED REACH				UPSTREAM*	DOWNSTREAM*	RECONSTRUCTED REACH	
FP-1	9	15		15	IN SITU MATERIAL	FP-12	3			25	4
FP-2	2			13	4	FP-14		12		25	4
FP-3		SEE DETAIL 1, SHEET P18			4	FP-15		18	19	18	2
FP-4	2.5	9		9	4	FP-16	2			12	IN SITU MATERIAL
FP-5	4.5			12	IN SITU MATERIAL	FP-17		24		24	1
FP-8	3.5	8	20	5	4	FP-33	2	24		13	4
FP-9				25	3	FP-34	2	24		13	4
FP-11	4			8	IN SITU MATERIAL						

BANKFULL WIDTHS HAVE ONLY BEEN PROVIDED AT THE SITES WHERE CHANNEL RECONSTRUCTION IS PROPOSED.  
 \* APPROXIMATE UPSTREAM & DOWNSTREAM BANKFULL HEIGHTS PROVIDED FOR ESTIMATING BANK RECONSTRUCTION QUANTITIES.

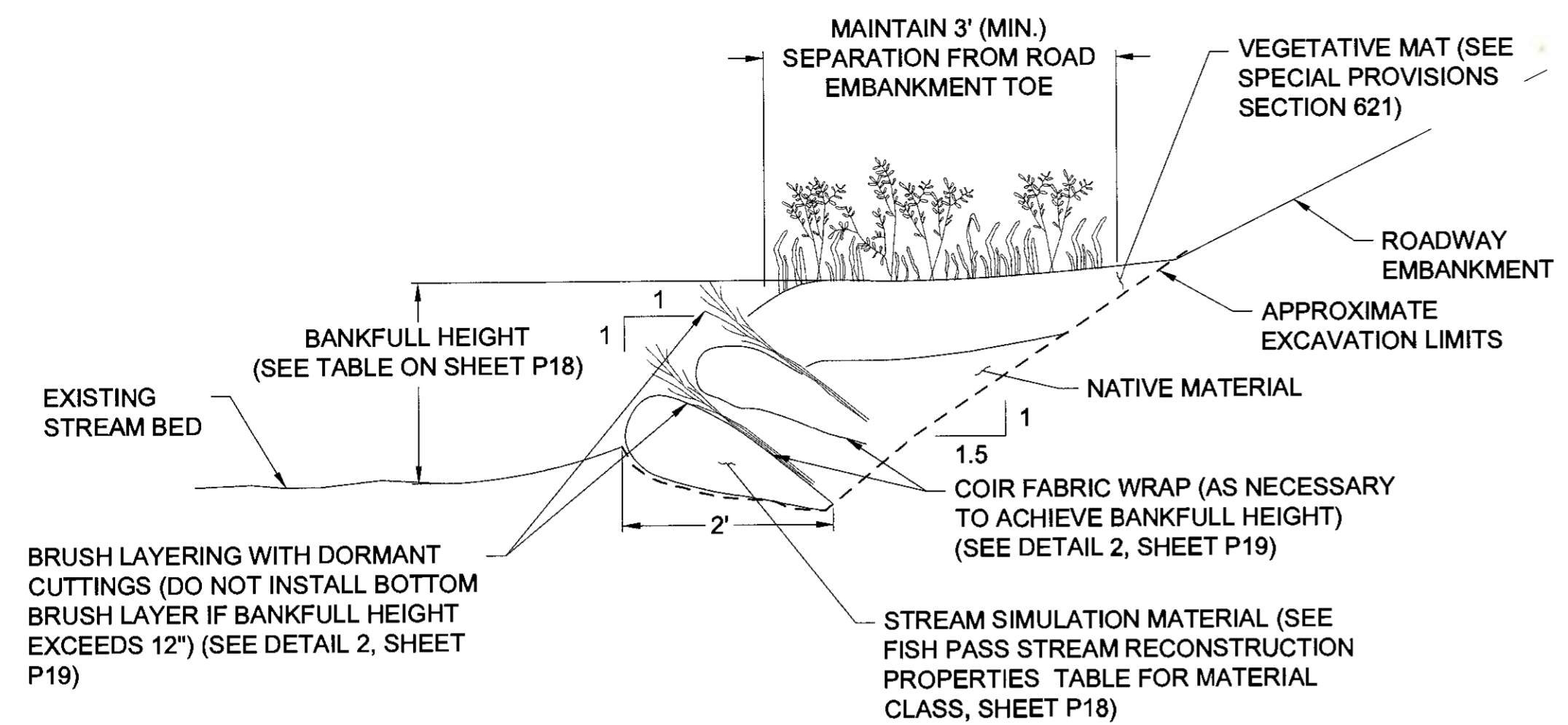
PLANS DEVELOPED BY:  
 DOWL  
 536B COMMERCIAL BLVD.,  
 JUNEAU, AK 99801  
 (907) 780-3533  
 #AECL848



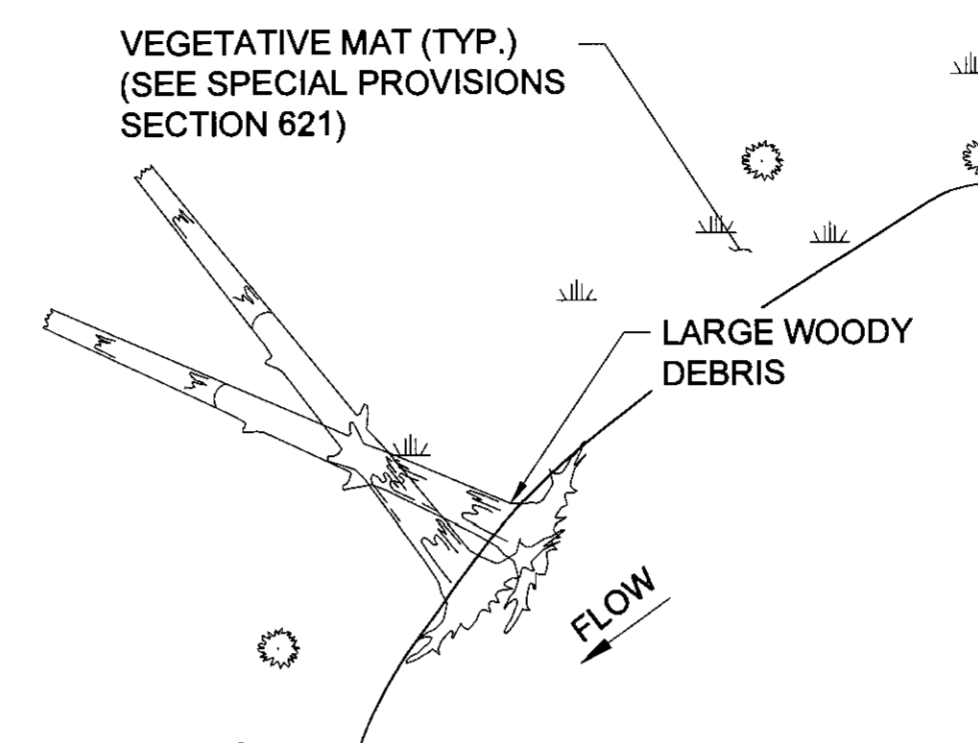
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
 MILEPOST 3.9 TO 12.2  
**CHANNEL RECONSTRUCTION DETAILS**

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 DATE 6/23/2017 11:45 LAYOUT P18  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

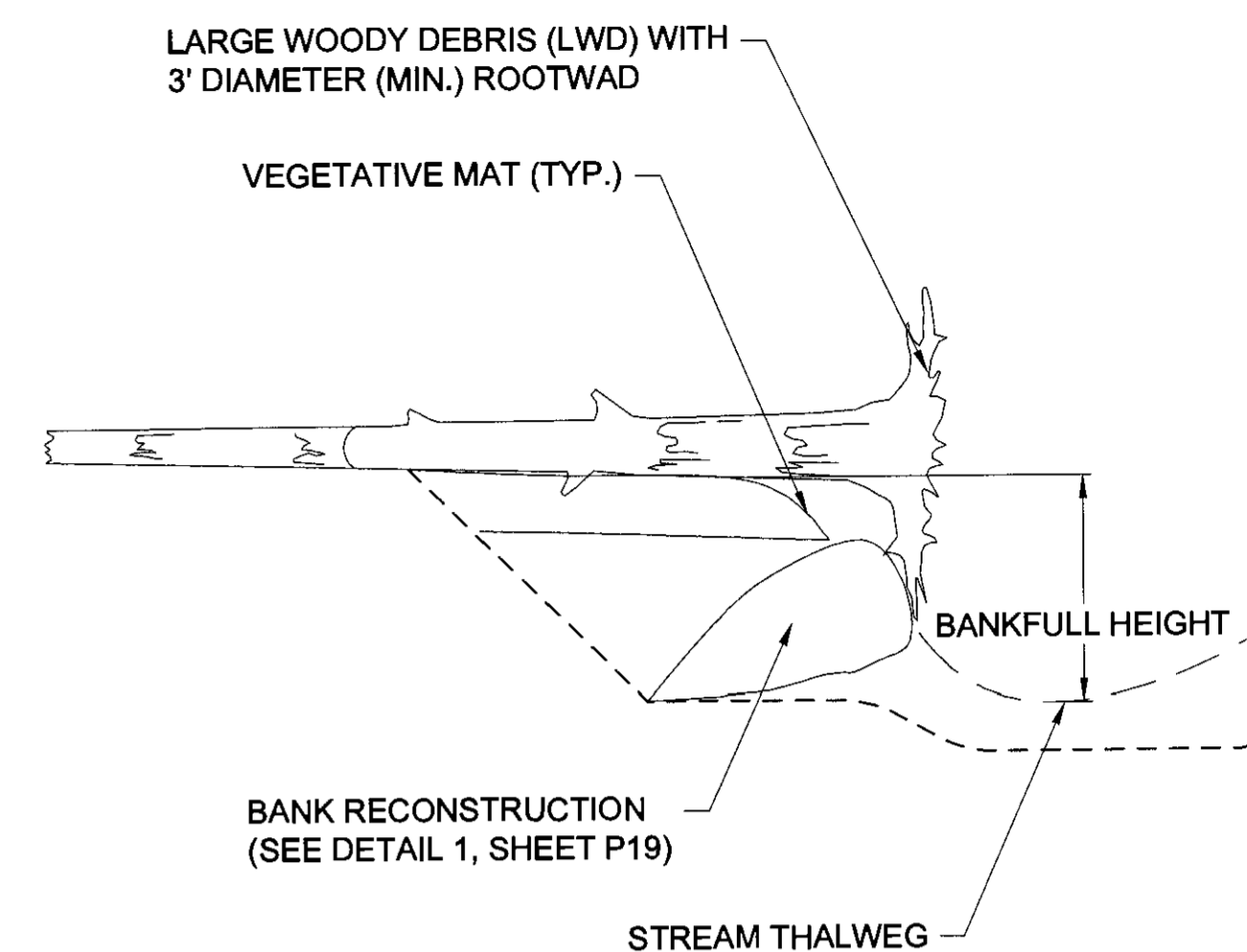
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	3-19-2018	CLARIFIED BANK DETAILS	ALASKA	0965(035)/SFHWY00126	2017	P19	162



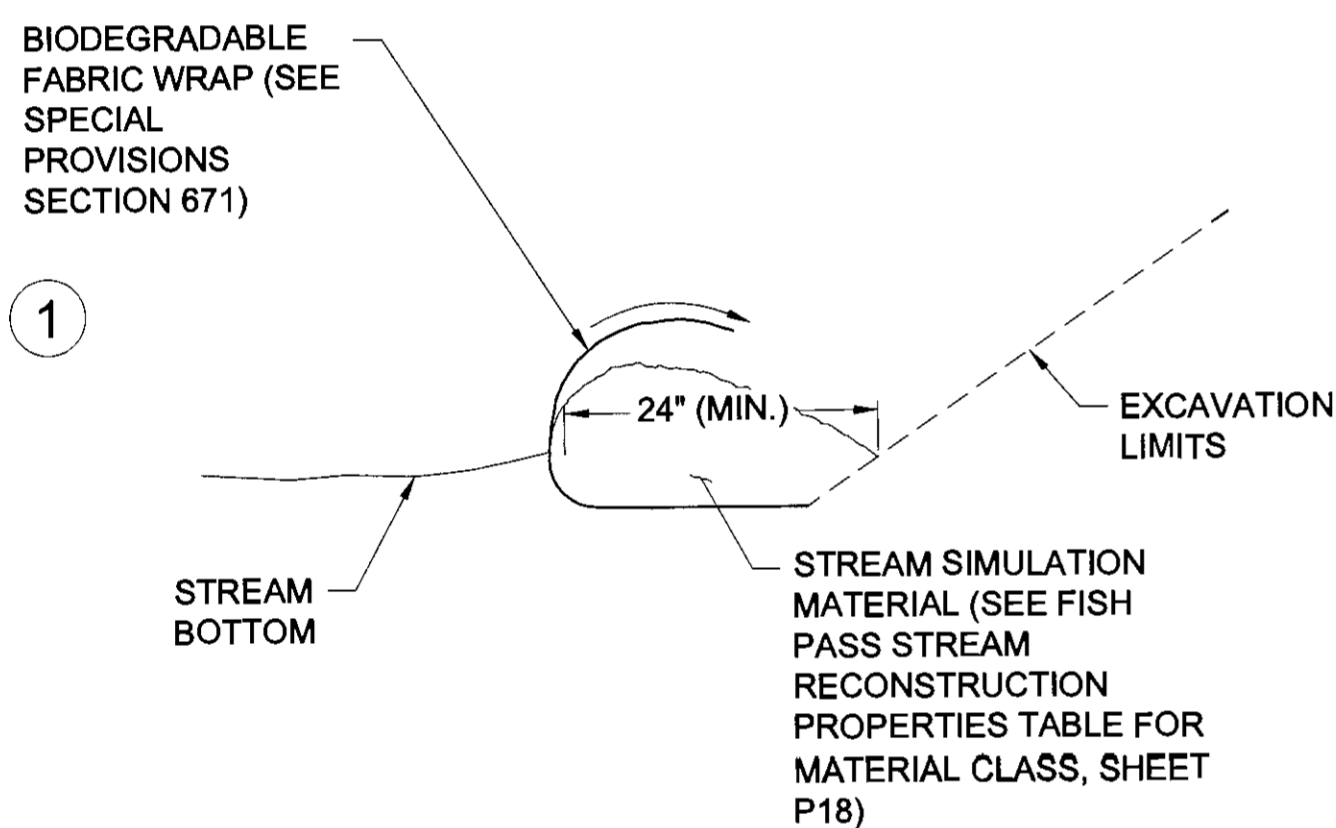
1 BANK RECONSTRUCTION  
P19 NTS



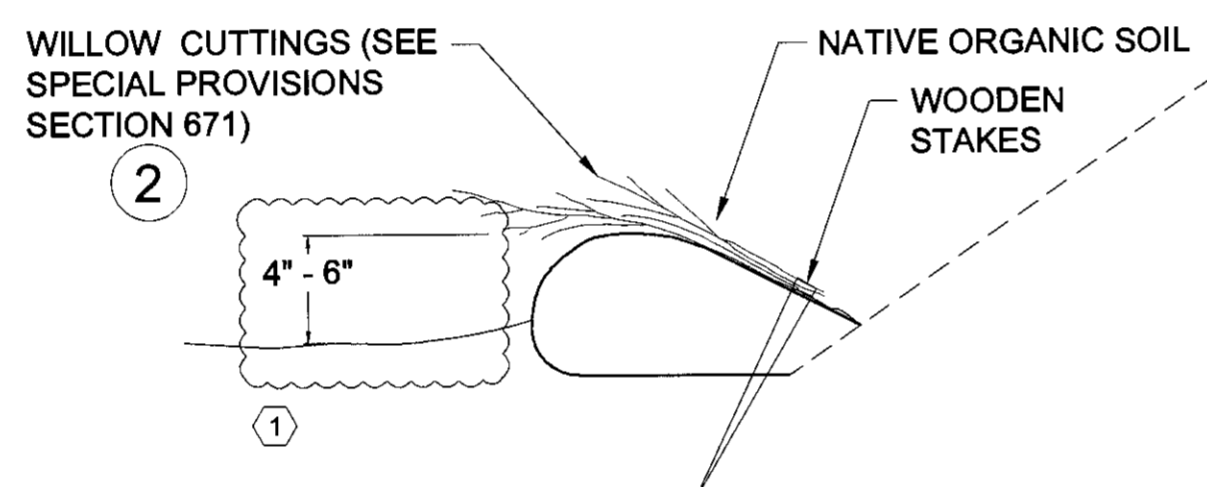
PLAN



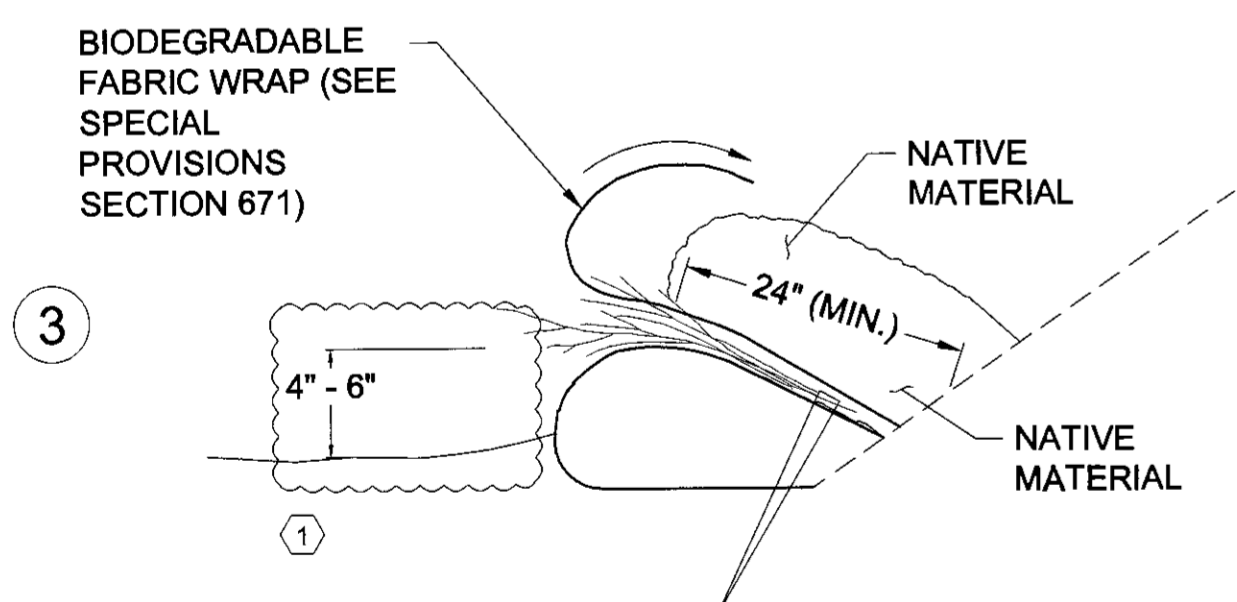
SECTION



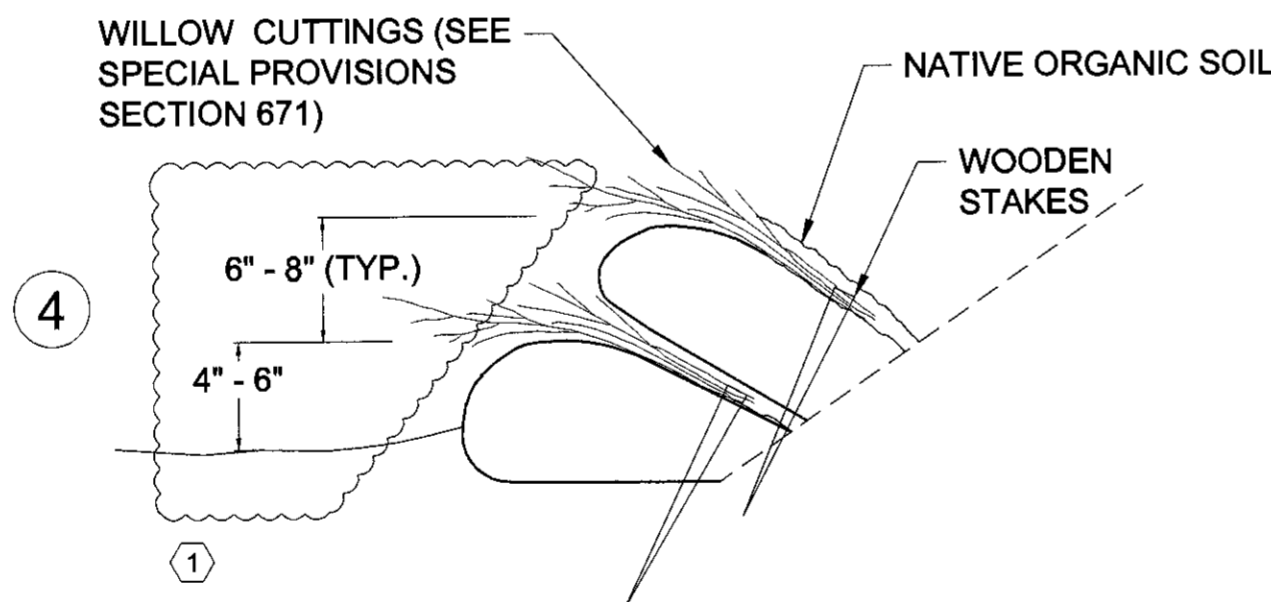
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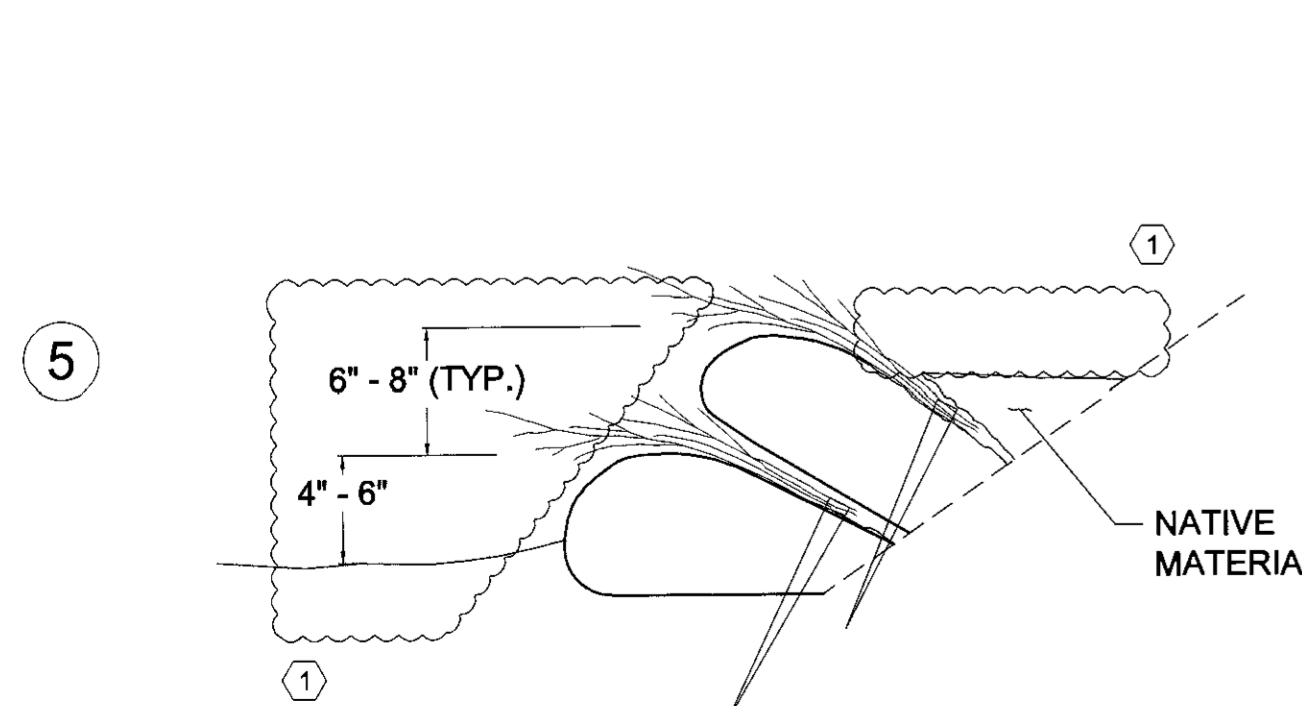
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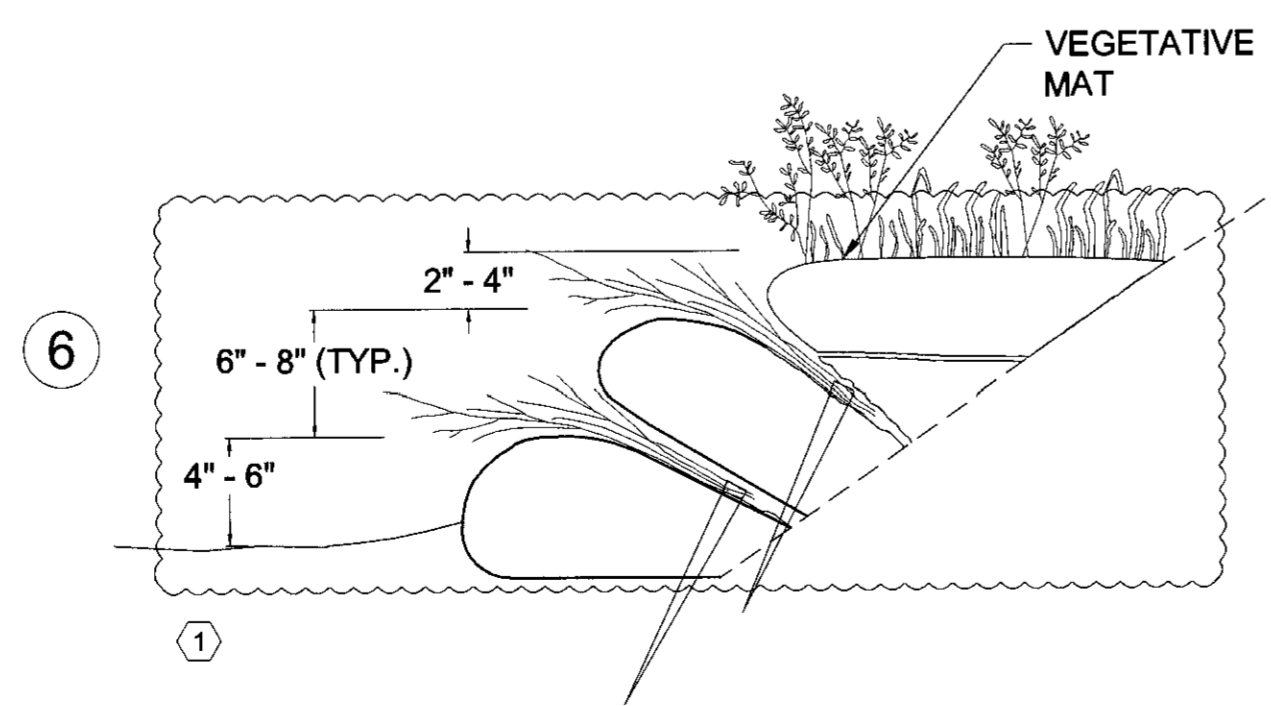
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4

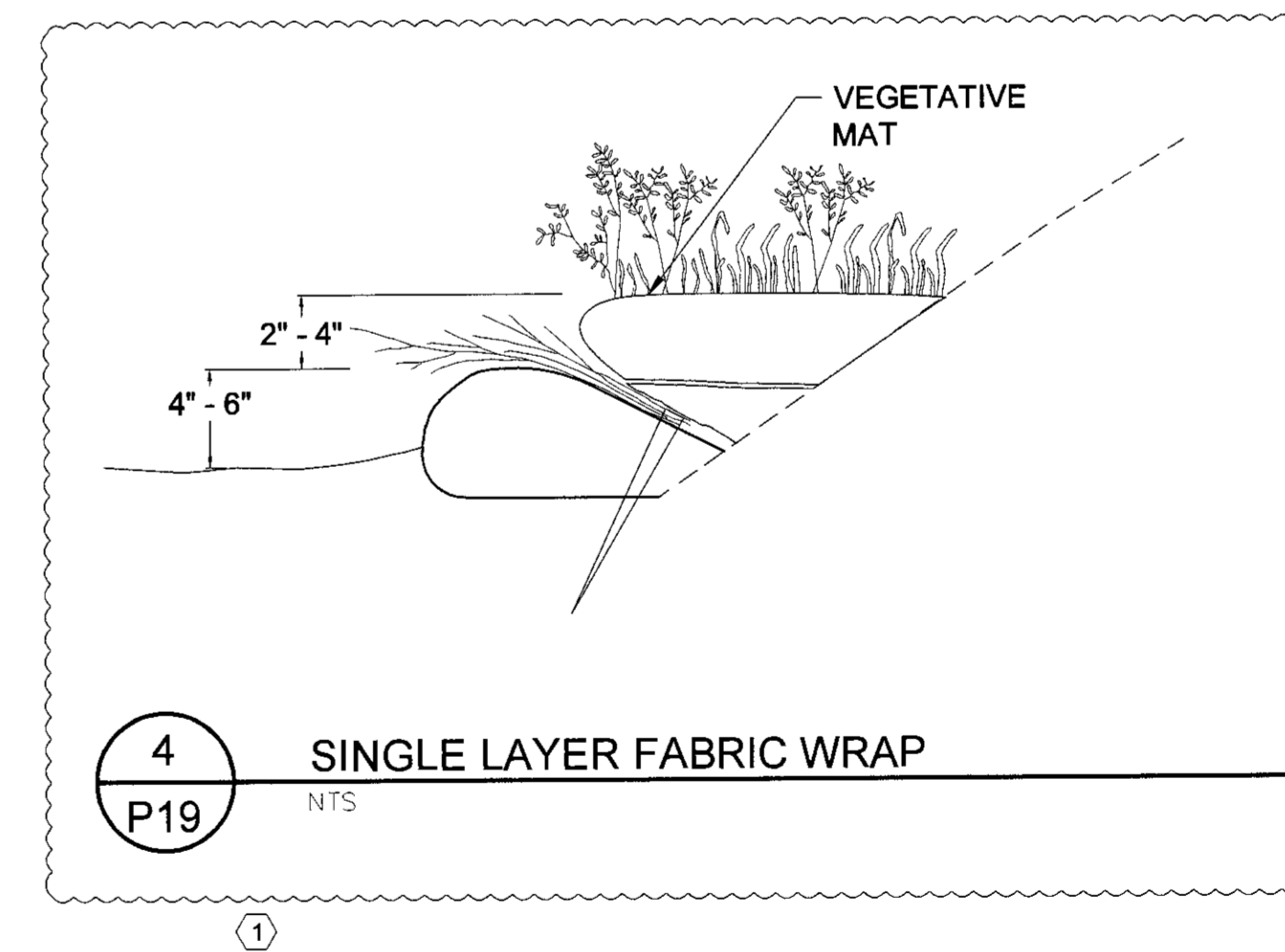


5



6

3 STREAM MITIGATION SITE 3 LARGE WOODY DEBRIS  
P19 NTS



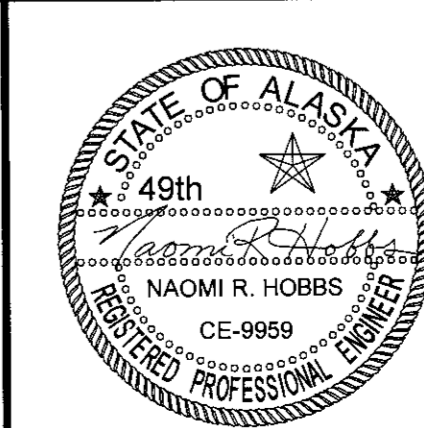
4 SINGLE LAYER FABRIC WRAP  
P19 NTS

2 BRUSH LAYERING WITH FABRIC WRAPS  
P19 NTS

NOTES:

- SEE SPECIAL PROVISIONS SECTION 671 FOR BRUSH LAYERING AND FABRIC WRAP STEPS.
- FILL BOTTOM LAYER OF BIODEGRADABLE FABRIC WRAP WITH STREAM SIMULATION MATERIAL. FILL SUBSEQUENT LAYERS OF BIODEGRADABLE FABRIC WRAP WITH SALVAGED NATIVE MATERIAL.
- CONSTRUCT ADDITIONAL LAYERS OF BRUSH LAYERING AS NEEDED TO REACH BANKFULL HEIGHT.
- MATCH CONSTRUCTED BANK BANKFULL HEIGHT TO EXISTING BANK BANKFULL HEIGHT WHERE CONSTRUCTED BANK CONNECTS TO EXISTING BANK SUCH THAT TOP OF BANK IS LEVEL ACROSS TRANSITION.
- IF ONLY ONE LAYER IS REQUIRED, ELIMINATE STEPS 3 AND 4 (SEE DETAIL 4, SHEET 19).

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848



STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES

HAINES HIGHWAY RECONSTRUCTION  
MILEPOST 3.9 TO 12.2

**BANK  
RECONSTRUCTION  
DETAILS**

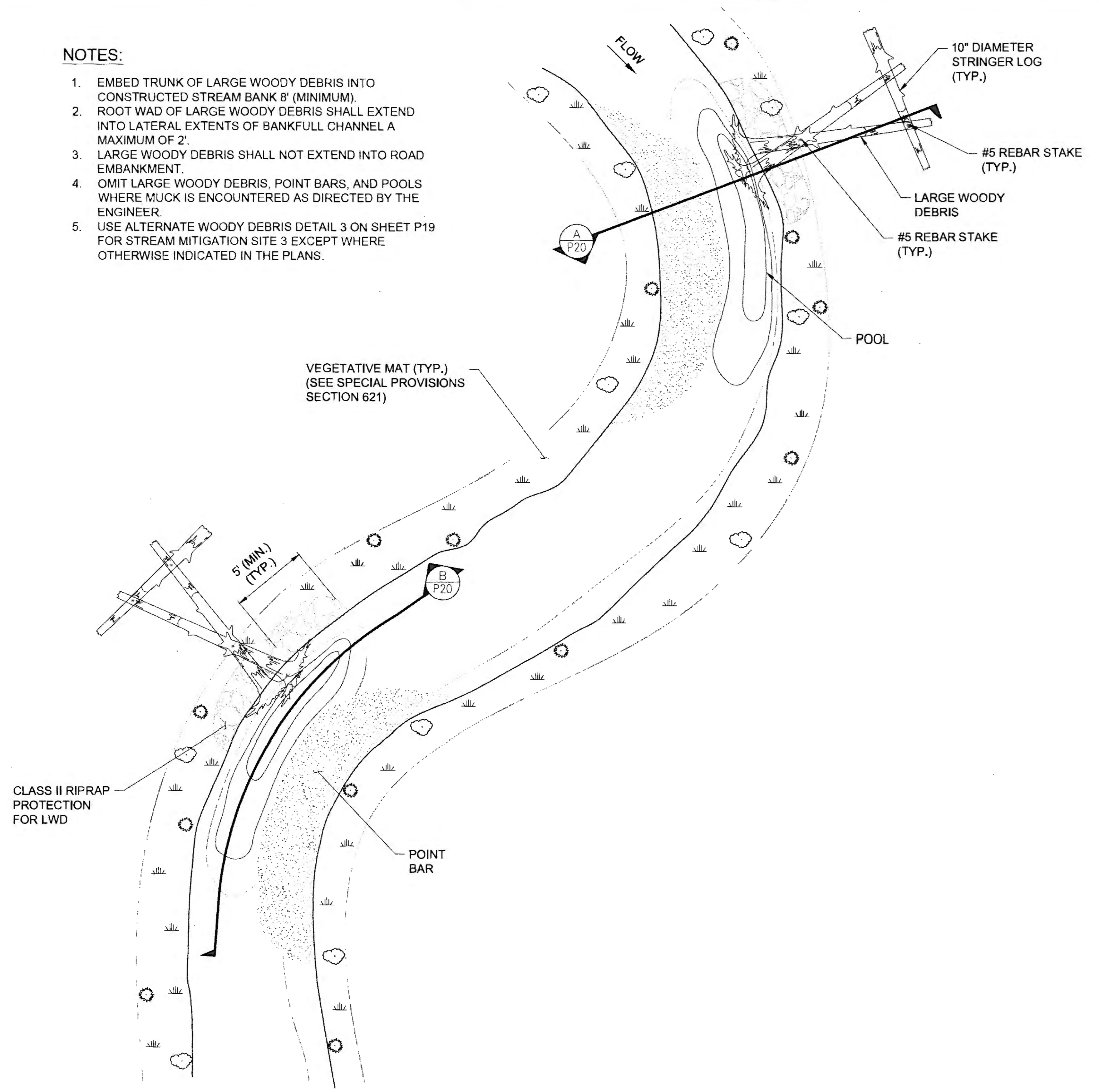
JKW 7-30-21

FILE \\cnc-hg-fs01\ANC-Projects\24161850-01\65CAD\M.P. 3-12 PSEP SHEETS\Fbeta11.s.dwg  
 DATE 3/19/2018 18:10 LAYOUT P19  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

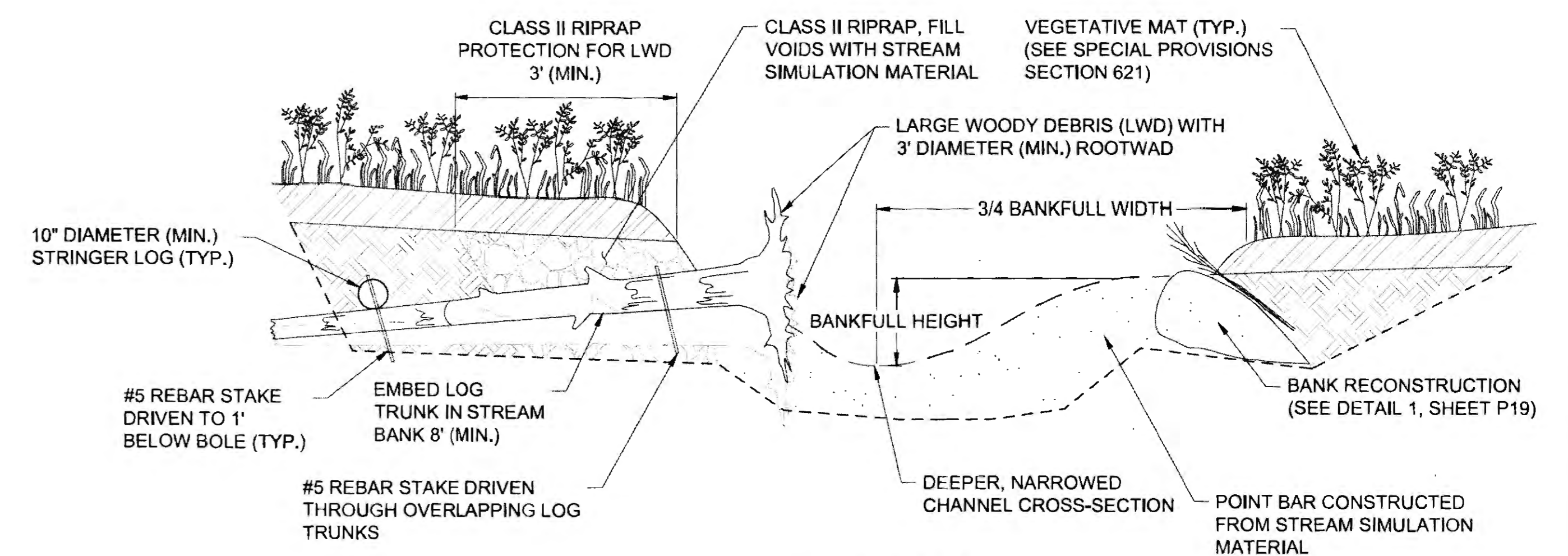
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P20	162

**NOTES:**

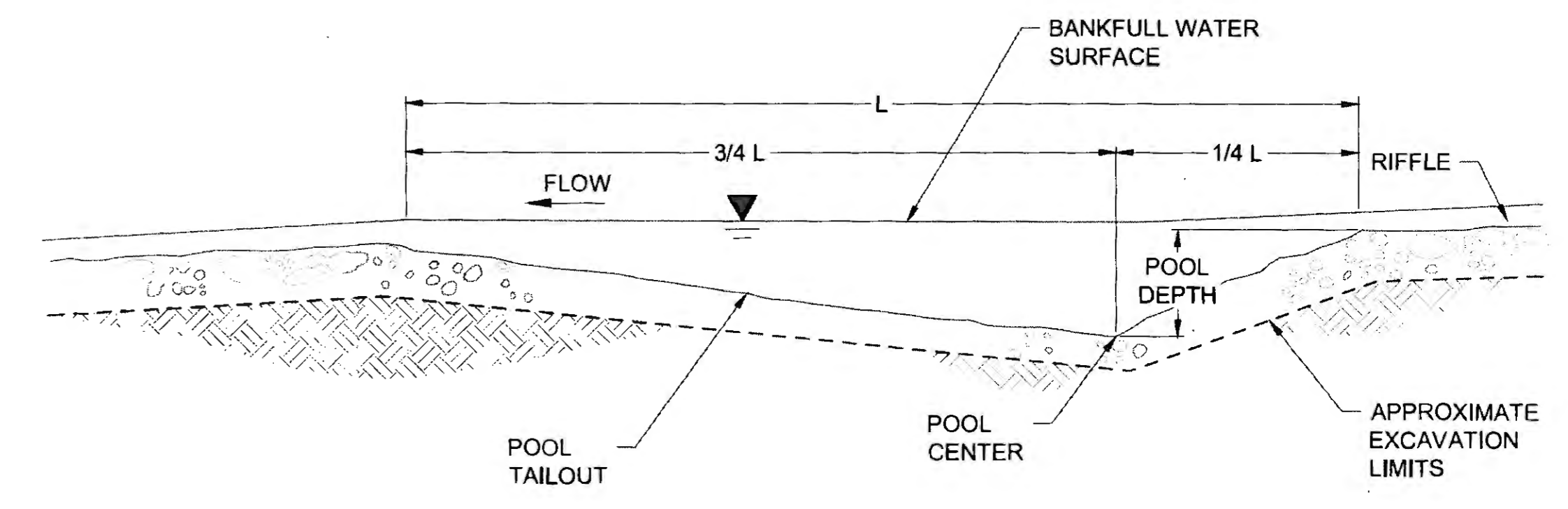
1. EMBED TRUNK OF LARGE WOODY DEBRIS INTO CONSTRUCTED STREAM BANK 8' (MINIMUM).
2. ROOT WAD OF LARGE WOODY DEBRIS SHALL EXTEND INTO LATERAL EXTENTS OF BANKFULL CHANNEL A MAXIMUM OF 2'.
3. LARGE WOODY DEBRIS SHALL NOT EXTEND INTO ROAD EMBANKMENT.
4. OMIT LARGE WOODY DEBRIS, POINT BARS, AND POOLS WHERE MUCK IS ENCOUNTERED AS DIRECTED BY THE ENGINEER.
5. USE ALTERNATE WOODY DEBRIS DETAIL 3 ON SHEET P19 FOR STREAM MITIGATION SITE 3 EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.



PLAN VIEW (CONCEPTUAL)



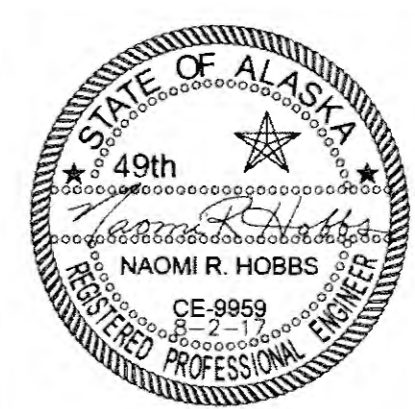
SECTION A - A



SECTION B - B

1 CHANNEL ENHANCEMENT  
P20 NTS

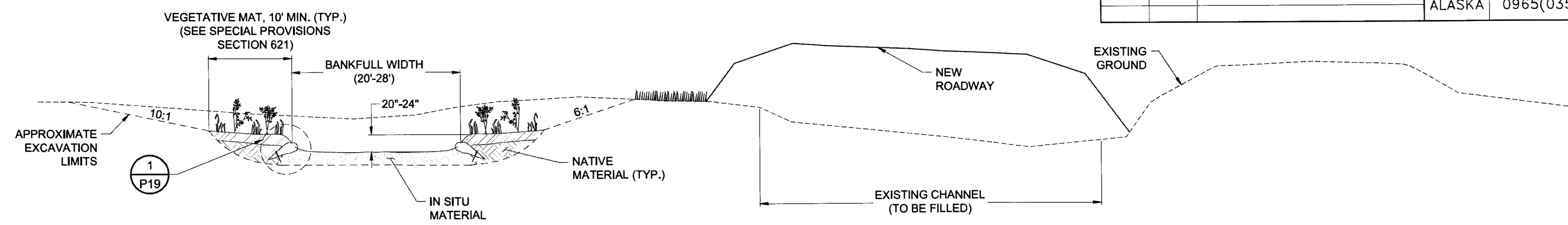
PLANS DEVELOPED BY:  
DOWL  
536B COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848



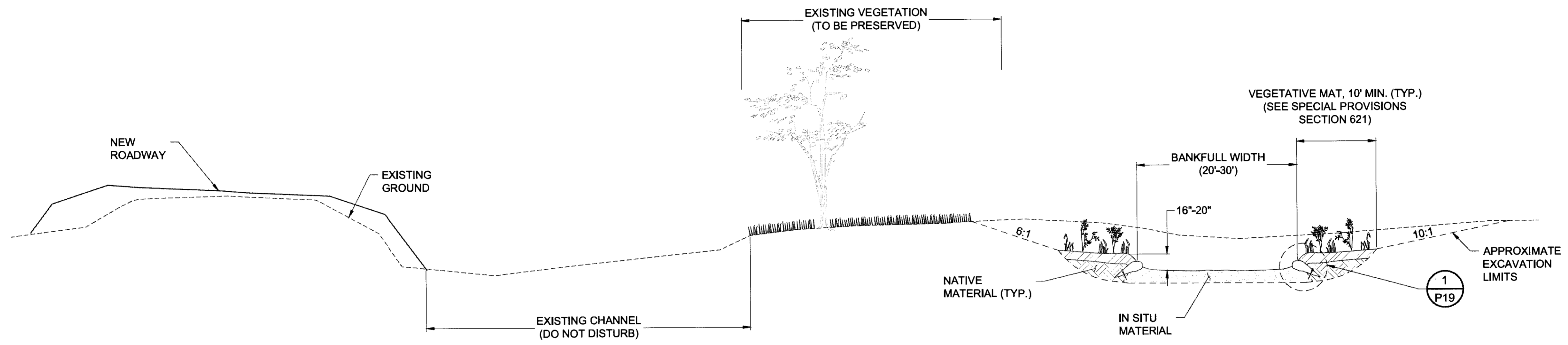
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION  
MILEPOST 3.9 TO 12.2  
CHANNEL ENHANCEMENT  
DETAILS**

FILE: 0:\24\1850-01\65CAD\MP 3-12 PSEAP SHEETS\Details.dwg  
 DATE: 6/23/2017 11:45  
 LAYOUT: P20  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

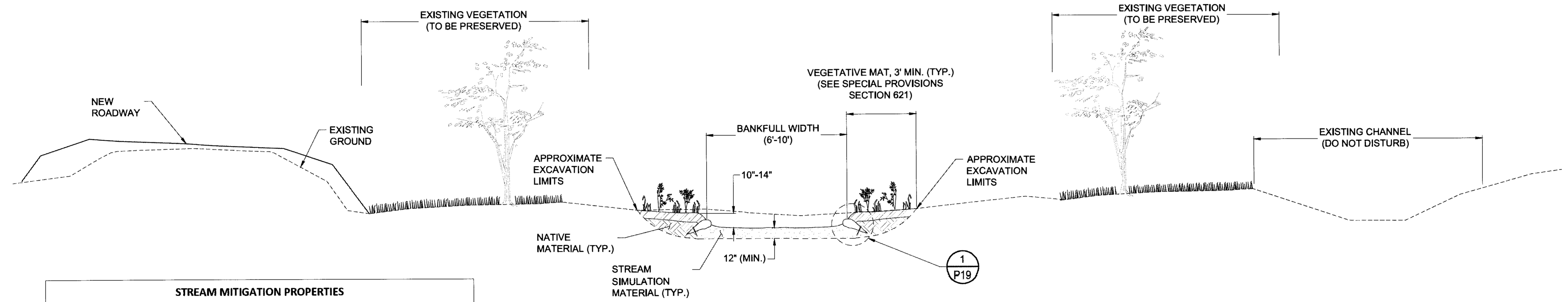
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P21	162



STREAM MITIGATION SITE 1



STREAM MITIGATION SITE 2



STREAM MITIGATION SITE 3

STREAM MITIGATION PROPERTIES			
SITE	BANKFULL WIDTH (FT)	BANKFULL HEIGHT (IN)	STREAM SIMULATION MATERIAL CLASS
SM-1	20-28	20-24	
SM-2	20-30	16-20	
SM-3	6-8	10-14	2

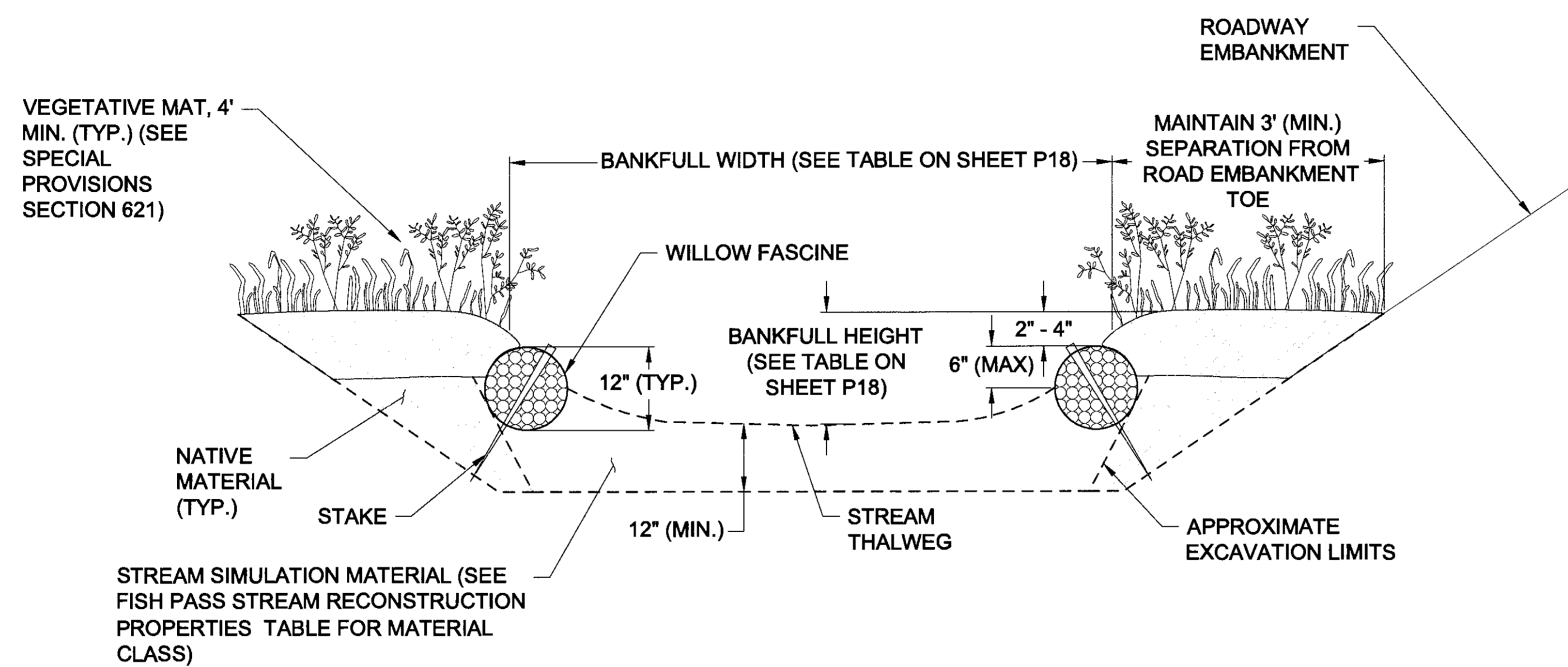
1 P21 NTS STREAM MITIGATION TYPICAL SECTIONS

PLANS DEVELOPED BY: DOWL 5368 COMMERCIAL BLVD. JUNEAU, AK 99801 (907) 780-3533 #AECL848		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES <b>HAINES HIGHWAY RECONSTRUCTION</b> <b>MILEPOST 3.9 TO 12.2</b> <b>STREAM MITIGATION</b> <b>DETAILS</b>
--	--	---

FILE: 0:\24\61850-01\B5CAD\WP 3-12 PSEP SHEETS\pdetail.s.dwg  
 DATE: 6/23/2017 11:45  
 LAYOUT: P21  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

FILE \\ncc-hg-fs01\ANC-Projects\24\61850-01\B5CAD\WP\_3-12\_PSE\VP SHEETS\Detail1s.dwg DATE 3/22/2018 11:46 LAYOUT P21A DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	P21A	162

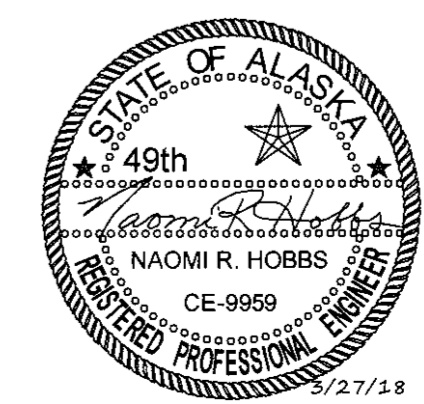


**NOTES:**

1. CONSTRUCT WILLOW FASCINES FROM WILLOW CUTTINGS (SEE SPECIAL PROVISIONS SECTION 671).
2. ORIENT THE CUT ENDS OF THE WILLOW CUTTINGS IN OPPOSITE DIRECTIONS TO CREATE A BUNDLE WITH A UNIFORM DIAMETER.
4. TIE BUNDLES WITH BIODEGRADABLE TWINE EVERY 1 TO 2 FEET.
5. CONSTRUCT FASCINES 3' - 9' IN LENGTH.
6. SECURE FASCINES WITH A MINIMUM OF TWO 18" WOODEN STAKES PER BUNDLE WITH A MAXIMUM STAKE SPACING OF 4 FEET.
7. FASCINE BANK RECONSTRUCTION METHOD APPLICABLE TO FP-4, FP-8, AND FP-11.

1  
P21A  
FASCINE BANK RECONSTRUCTION  
NTS

PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
MILEPOST 3.9 TO 12.2  
**BANK RECONSTRUCTION**  
DETAILS 4-20-21

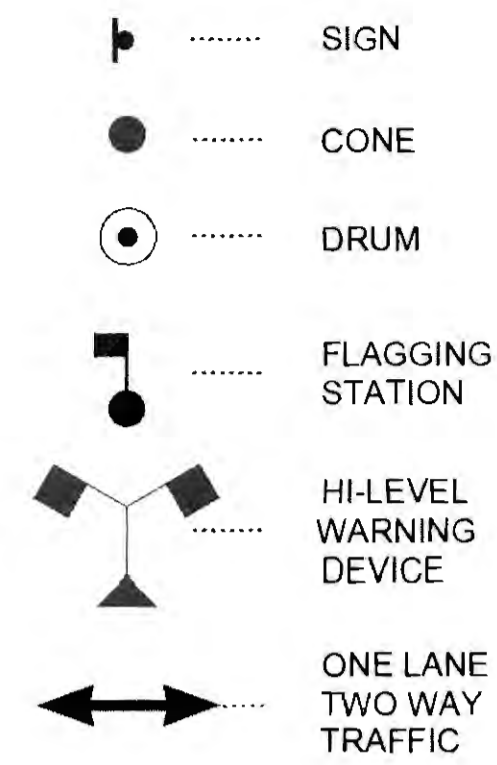
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 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

## TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. THE FINAL TCP ADDRESSING IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED SHALL BE COMPLETED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL BY THE ENGINEER.
2. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE LATEST EDITION OF THE ALASKA TRAFFIC MANUAL (ATM) SHALL REFERENCE THE TYPICAL APPLICATION.
3. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS. FLAGGERS MUST BE PRESENT FOR ANY LANE CLOSURES.
4. THE LENGTH OF WORK AREA SHALL BE MINIMIZED TO AVOID EXCESSIVE TRAFFIC DELAYS AS DIRECTED BY THE ENGINEER. IN NO CASE WILL THE ENGINEER ALLOW A WORK AREA GREATER THAN TWO (2) MILES.
5. KEEP THE PUBLIC INFORMED OF CONSTRUCTION ACTIVITIES. SEE SECTION 643-3.03 OF THE SPECIAL PROVISIONS.
6. EXPECT HIGHER TRAFFIC VOLUMES ASSOCIATED WITH THE ARRIVAL & DEPARTURE OF FERRIES AT THE ALASKA MARINE HIGHWAY TERMINAL IN HAINES.
7. WHEN ROAD CLOSURES ARE REQUIRED FOR BLASTING EVENTS AND RELATED WORK, THEY SHALL NOT BE LONGER THAN 2 HOURS IN DURATION, AND SHALL OCCUR BETWEEN 7 PM AND 12 AM. HOURS TO BE ADJUSTED TO AVOID LOW LIGHT CONDITIONS AS DIRECTED BY THE ENGINEER.
8. SEE SECTION 201-3.05 OF THE SPECIAL PROVISIONS FOR LIMITATIONS ON PAVEMENT REMOVAL AND REPAVING. REPAVED SECTIONS REQUIRE INTERIM PAVEMENT MARKINGS PER SECTION 643-3.09 OF THE SPECIFICATIONS.
9. A WORK ZONE SPEED LIMIT OF 45 MPH (10 MPH LESS THAN THE POSTED SPEED) IS RECOMMENDED DURING CONSTRUCTION. HOWEVER, IN SOME SITUATIONS, A LOWER WORK ZONE SPEED LIMIT MAY BE NECESSARY. IN THESE SITUATIONS, THE CONTRACTOR SHALL DETERMINE THE NEED FOR A LOWER WORK ZONE SPEED LIMIT IN ACCORDANCE WITH THE AK DOT&PF POLICY AND PROCEDURE 05.05.020 AND SUBMIT FOR APPROVAL BY THE ENGINEER.
10. LOCATION OF DOUBLE TRAFFIC SIGNS SHALL BE ESTABLISHED IN ACCORDANCE WITH THE AK DOT&PF STANDARD DRAWING C-04.12.
11. CHANGEABLE MESSAGE BOARD SHALL BE USED FOR ADVANCED NOTIFICATION. LOCATION OF CHANGEABLE MESSAGE BOARDS SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER.
12. IF A CLOSURE IS COMPLETELY WITHIN THE LIMITS OF THE CONSTRUCTION ZONE, ELIMINATE THE "END ROAD WORK" (G-20-2) SIGNS.

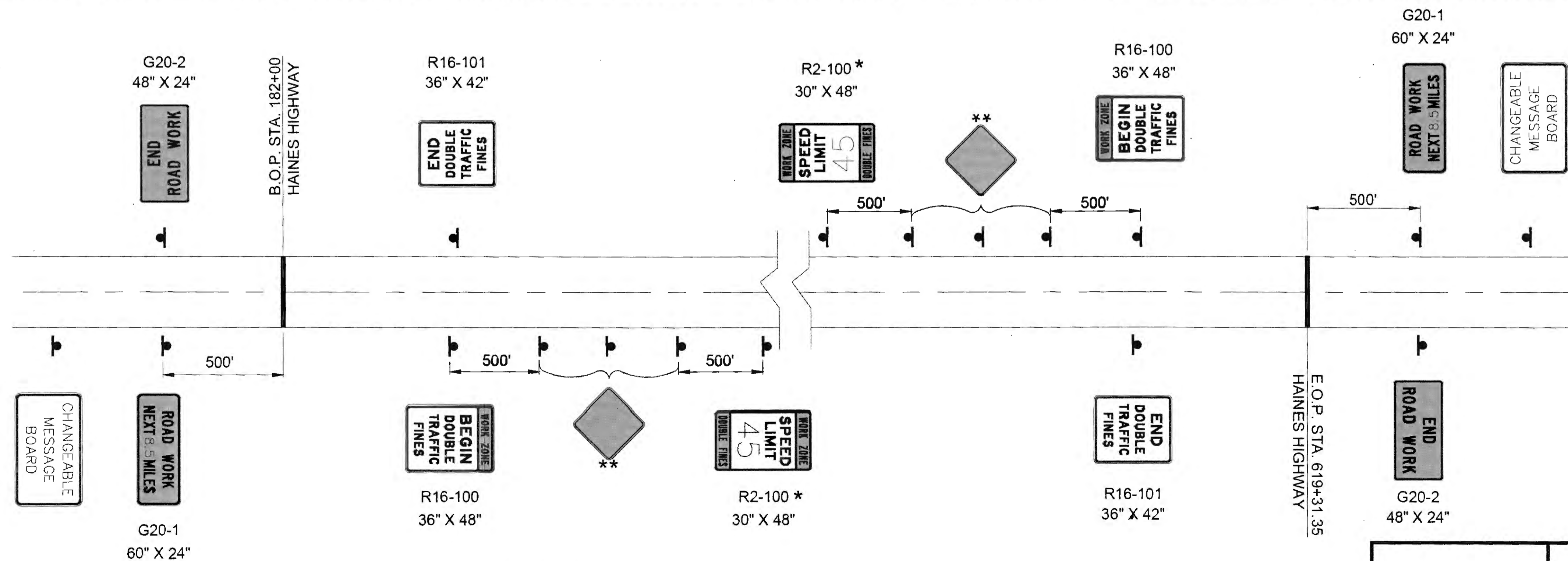
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	S1	162

### TCP LEGEND



### TCP SETUP TABLE

SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET WIDTH OF OFFSET (W) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE IN FEET
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	
25 OR BELOW	105	115	125	6	6	6	25	50	155
30	150	165	180	6	7	7	30	60	200
35	205	225	245	7	8	8	35	70	250
40	270	295	320	8	9	9	40	80	305
45	450	495	540	11	12	13	45	90	360
50	500	550	600	11	12	13	50	100	425
55	550	605	660	11	12	13	55	110	495
60	600	660	720	11	12	13	60	120	570



### PERMANENT CONSTRUCTION SIGNING

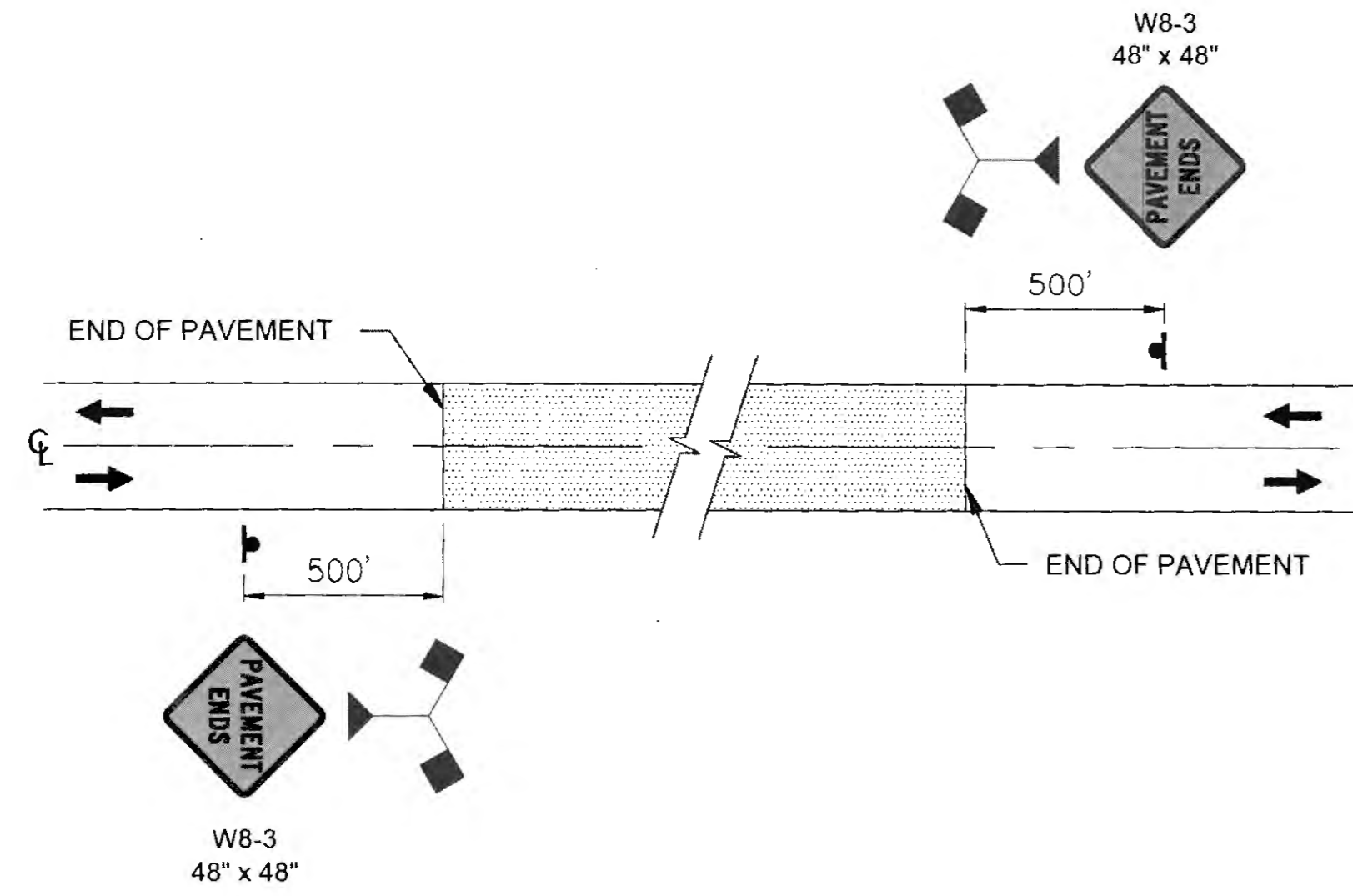
- \* WHERE DOUBLE FINE ZONE LENGTH IS LONGER THAN 2 MILES, INTERIM WORK ZONE SPEED LIMIT SIGNS SHALL BE INSTALLED AT A SPACING NOT TO EXCEED 2 MILES.
- \*\* ADVANCE WARNING SIGNS, NUMBER AND SPACING VARIES PER THE IMPLEMENTED TCP

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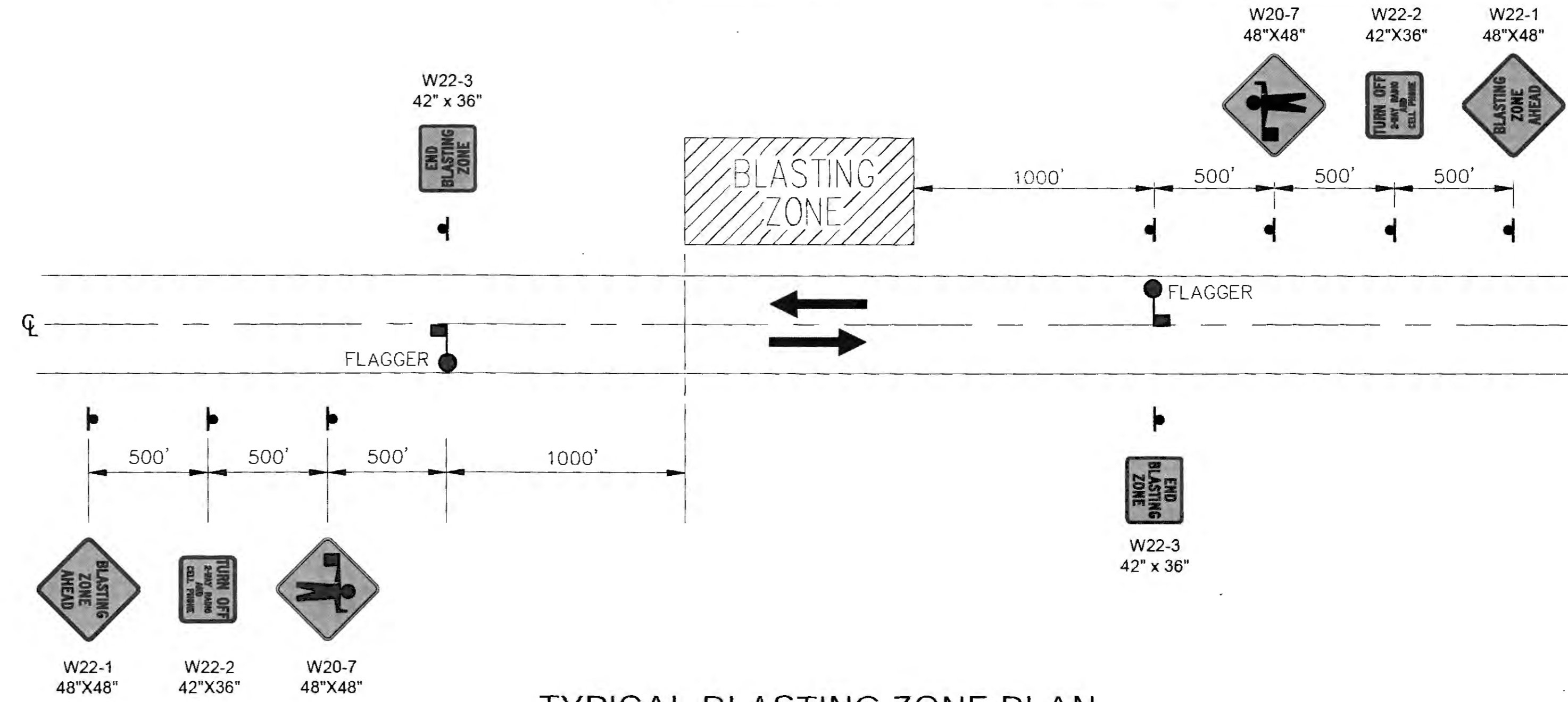
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION**  
**MILEPOST 3.9 TO 12.2**  
**TRAFFIC CONTROL PLAN**



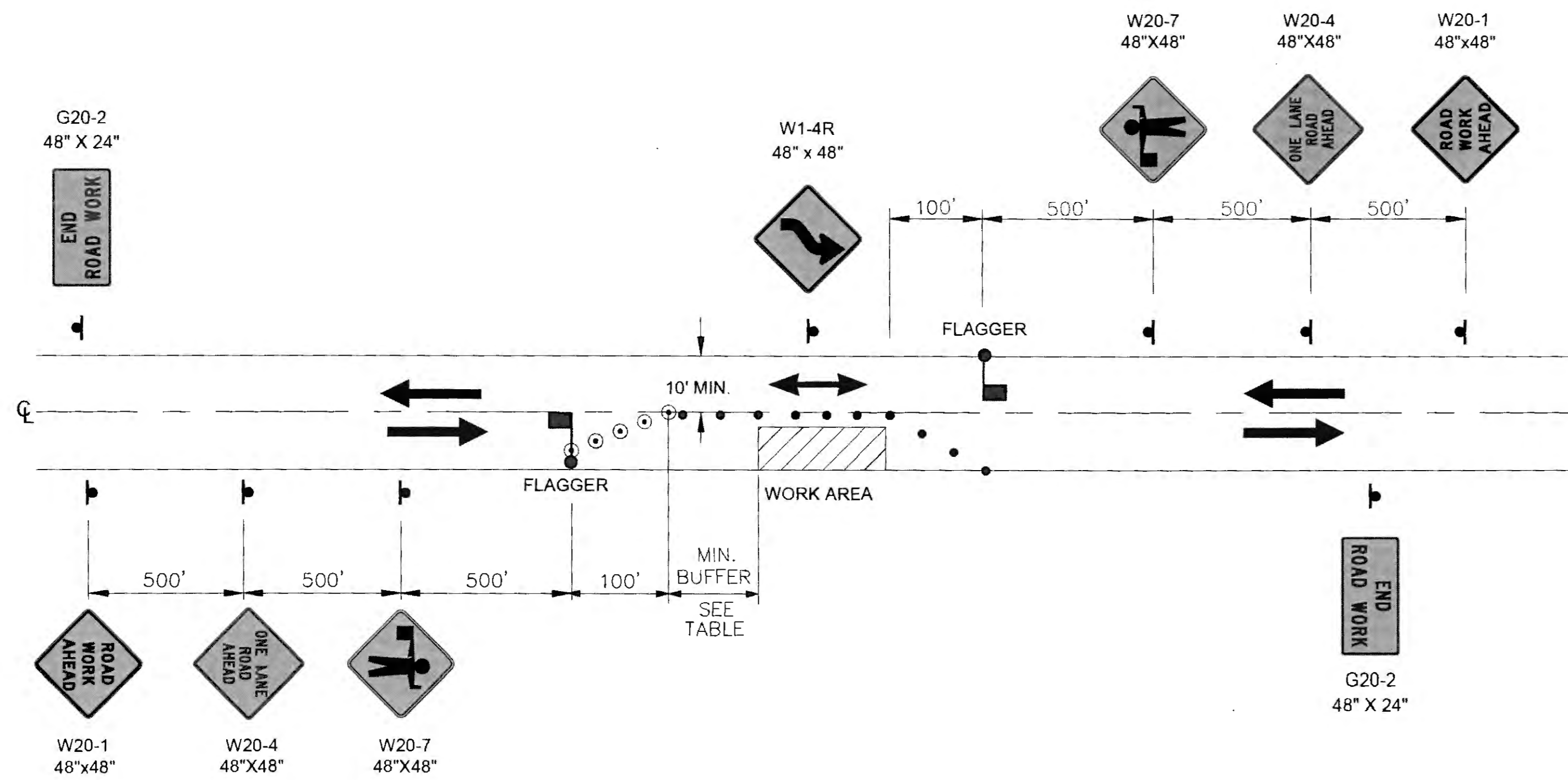
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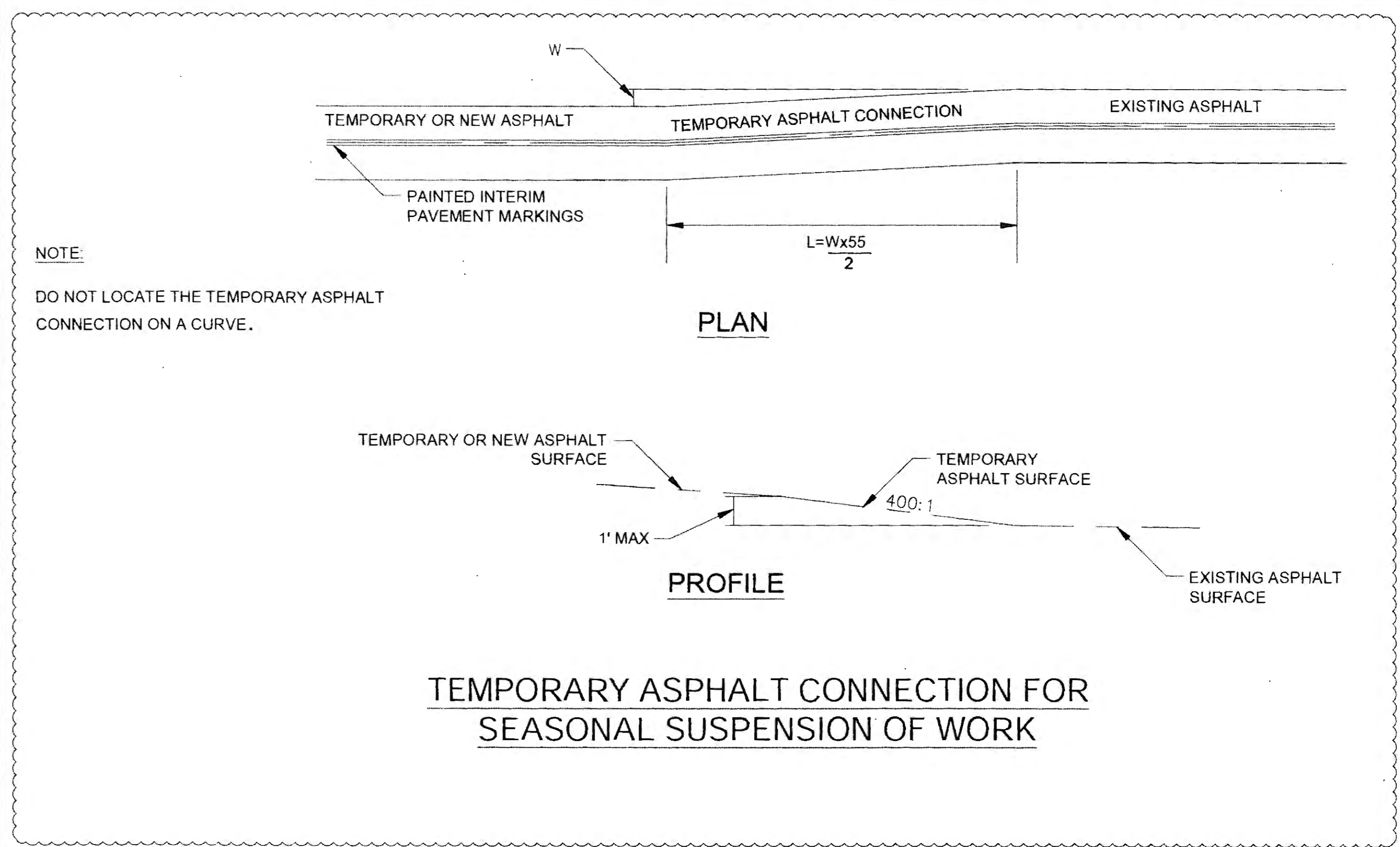
SIGNING FOR UNPAVED AREA



TYPICAL BLASTING ZONE PLAN



TWO LANE ROAD - SINGLE LANE CLOSURE  
DOUBLE FLAGGER



TEMPORARY ASPHALT CONNECTION FOR  
SEASONAL SUSPENSION OF WORK

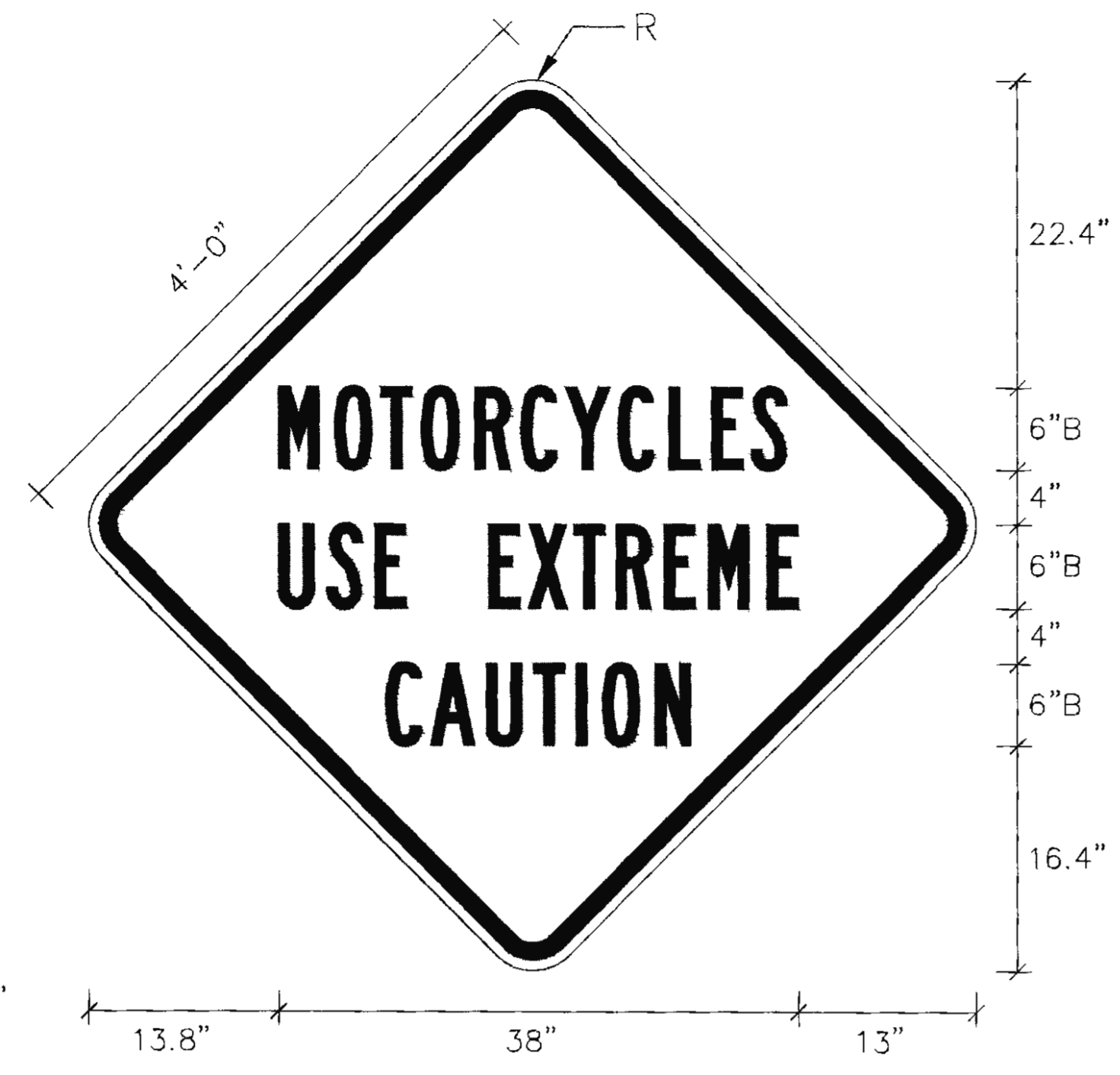
PLANS DEVELOPED BY:  
DOWL  
5368 COMMERCIAL BLVD.  
JUNEAU, AK 99801  
(907) 780-3533  
#AECL848

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
**HAINES HIGHWAY RECONSTRUCTION  
MILEPOST 3.9 TO 12.2**  
TRAFFIC CONTROL PLAN

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 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

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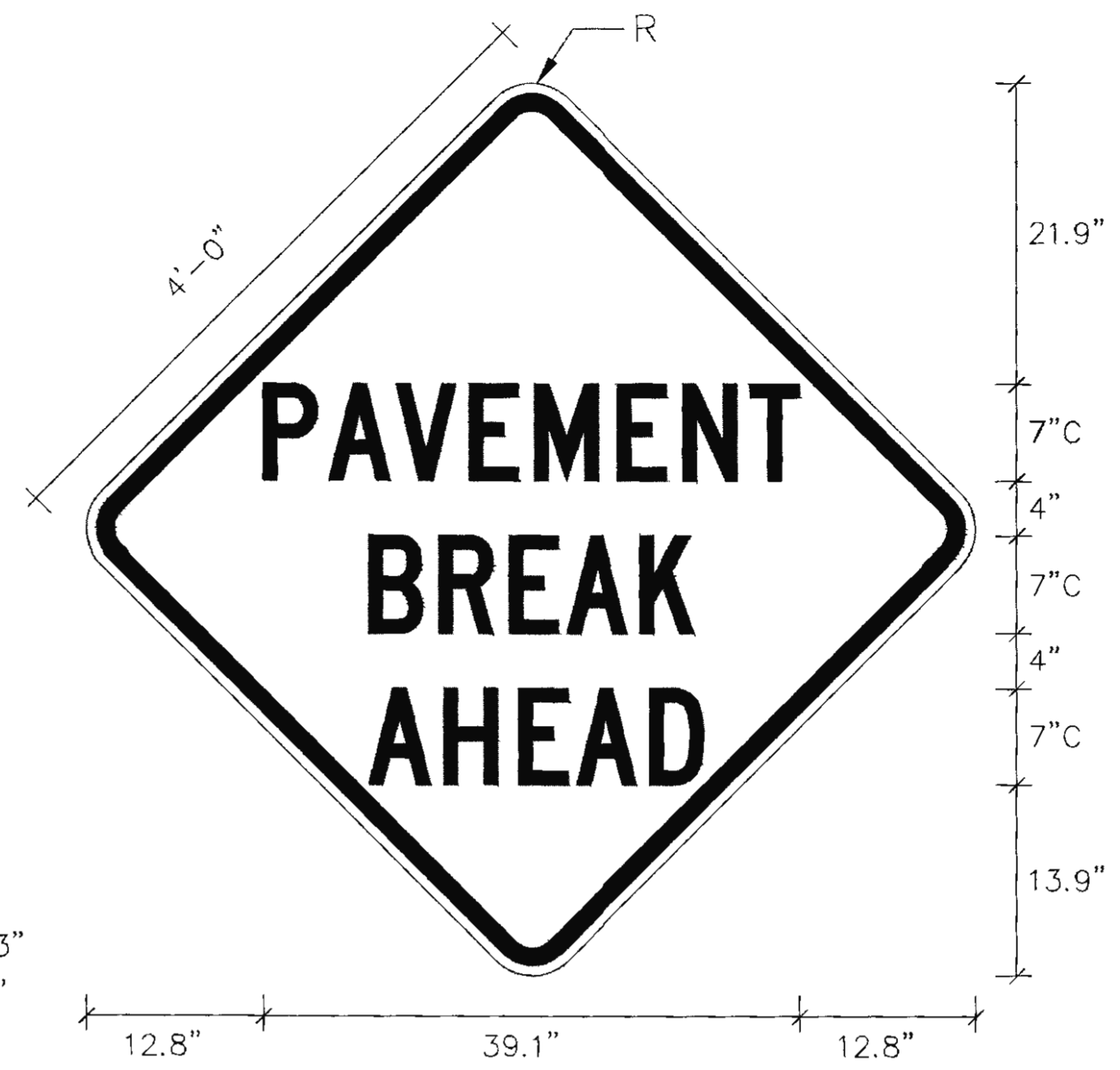
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BORDER  
 OUTER RADIUS=3"  
 THICKNESS=1.25"  
 INSERT=0.75"

**PROJECT SIGN DETAIL**

PROVIDE 4 EACH ON WINDMASTER STANDS AS MOVEABLE CONSTRUCTION SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.



BORDER  
 OUTER RADIUS=3"  
 THICKNESS=1.25"  
 INSERT=0.75"

**PROJECT SIGN DETAIL**

PROVIDE 4 EACH ON WINDMASTER STANDS AS MOVEABLE CONSTRUCTION SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.



BORDER  
 OUTER RADIUS=2.25"  
 THICKNESS=1.25"  
 INSERT=0.75"

**PROJECT SIGN DETAIL**

PROVIDE 4 EACH ON 4x4 POSTS AS PERMANENT CONSTRUCTION SIGNS AT LOCATIONS DETERMINED BY THE ENGINEER.



BORDER  
 OUTER RADIUS=2.5"  
 THICKNESS=1.25"  
 INSERT=0.75"

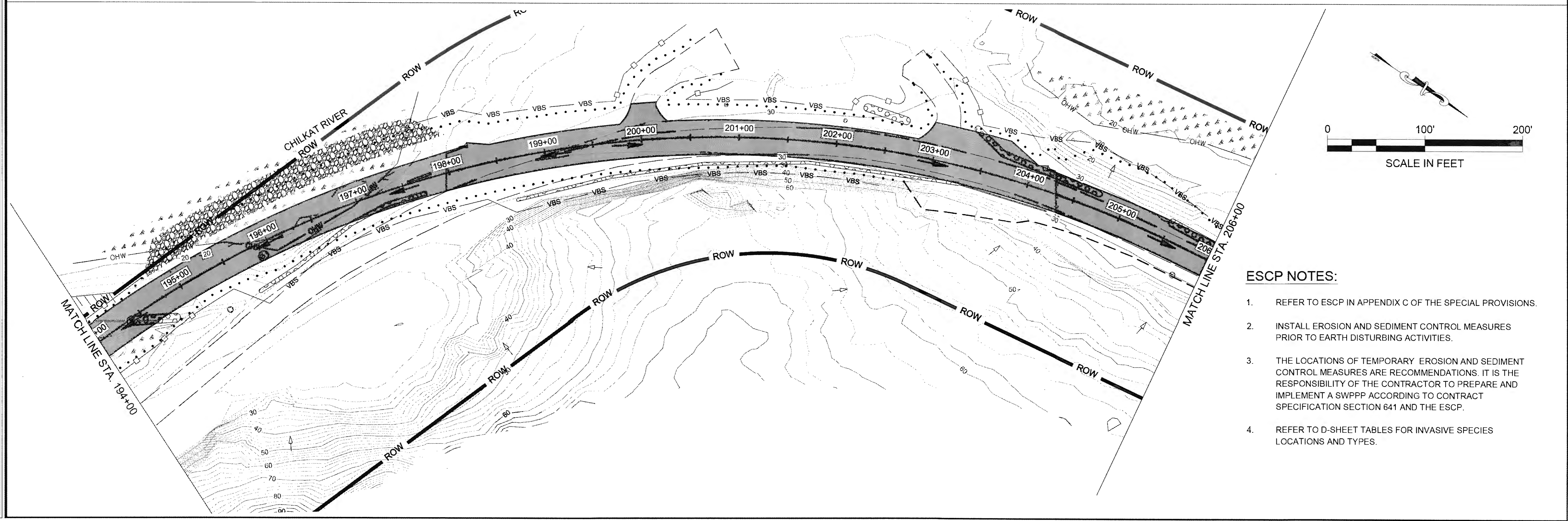
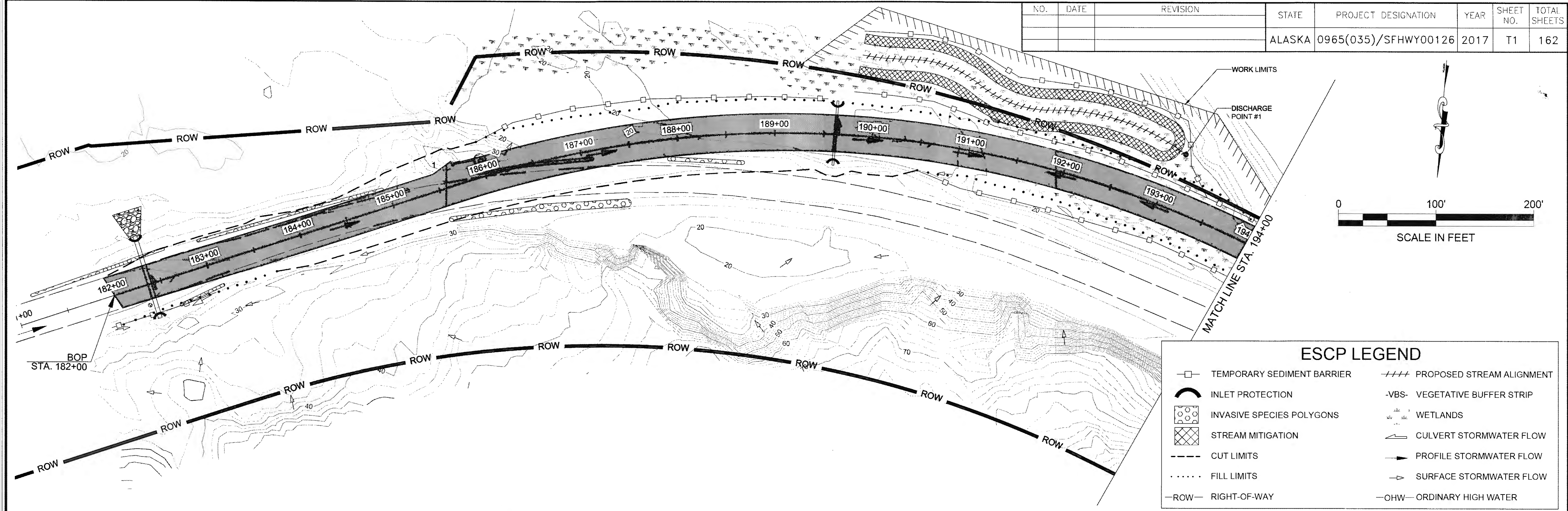
**SIGN FOR 48 HOUR ADVANCED NOTICE OF BLASTING**

SIGNS SHALL BE ORANGE BACKGROUND WITH BLACK BORDER AND TEXT. SIGNS SHALL INCLUDE THE DAY OF CLOSURE, BEGINNING TIME OF CLOSURE, AND EXPECTED TIME THE ROAD WILL REOPEN. SIGNS SHALL BE IN PLACE A MINIMUM OF 48 HOURS PRIOR TO ROAD CLOSURE. REMOVABLE PANELS MAY BE USED TO CHANGE THE DAY AND TIME. SIGN LETTERING IS DESIGNATED BY SIZE AND FHWA "SERIES 2000" LETTER SERIES. (EG "6C" MEANS A LETTER HEIGHT OF 6 INCHES WITH A SERIES C WIDTH)

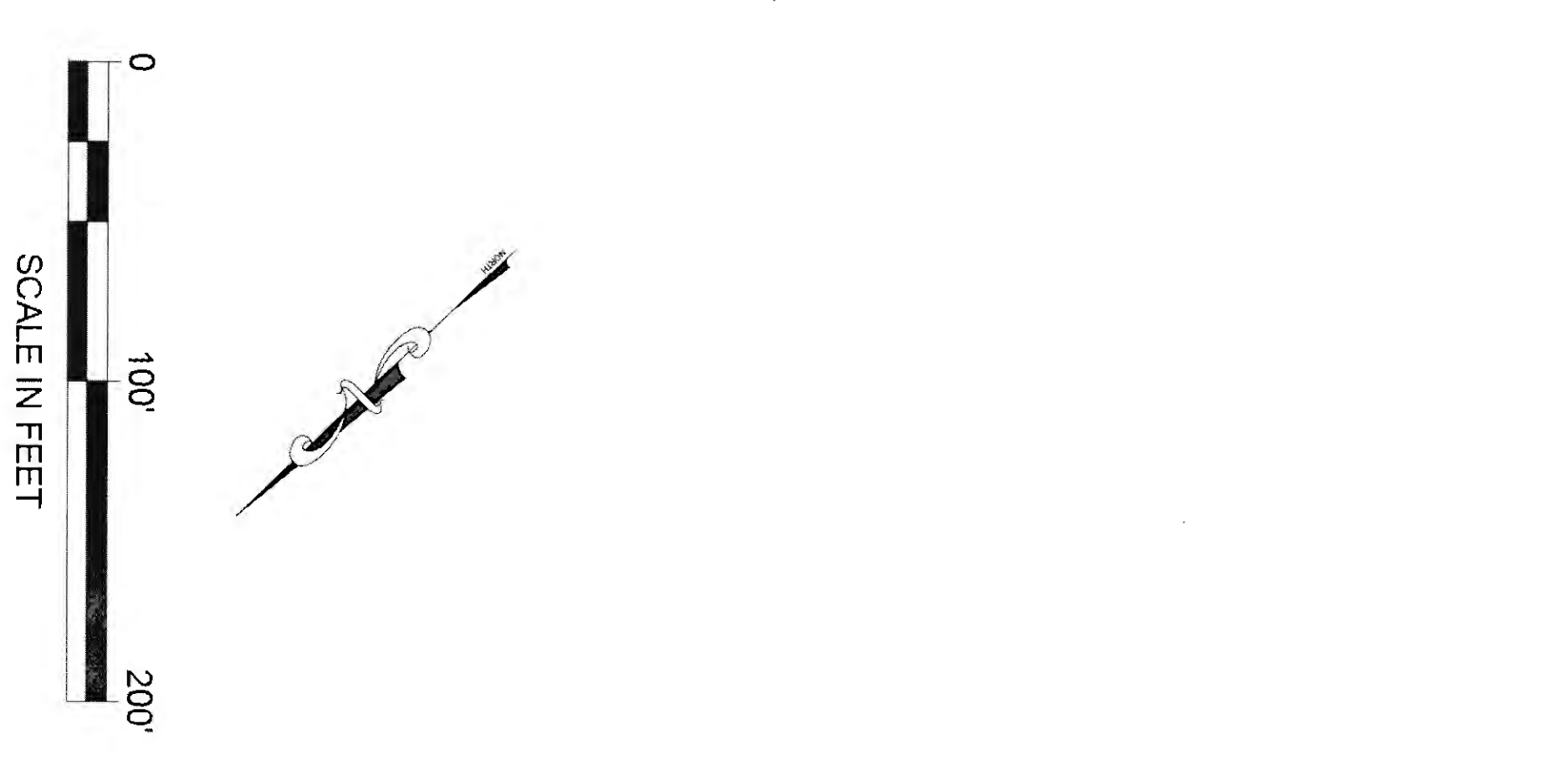
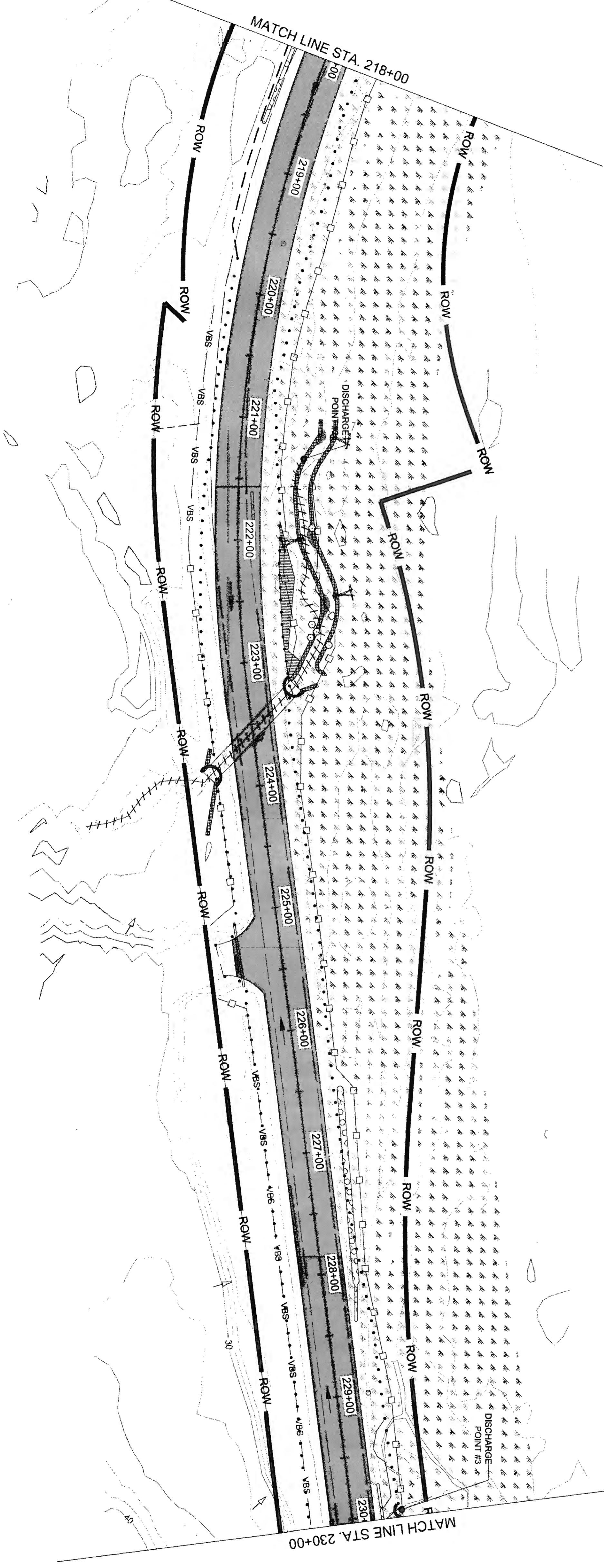
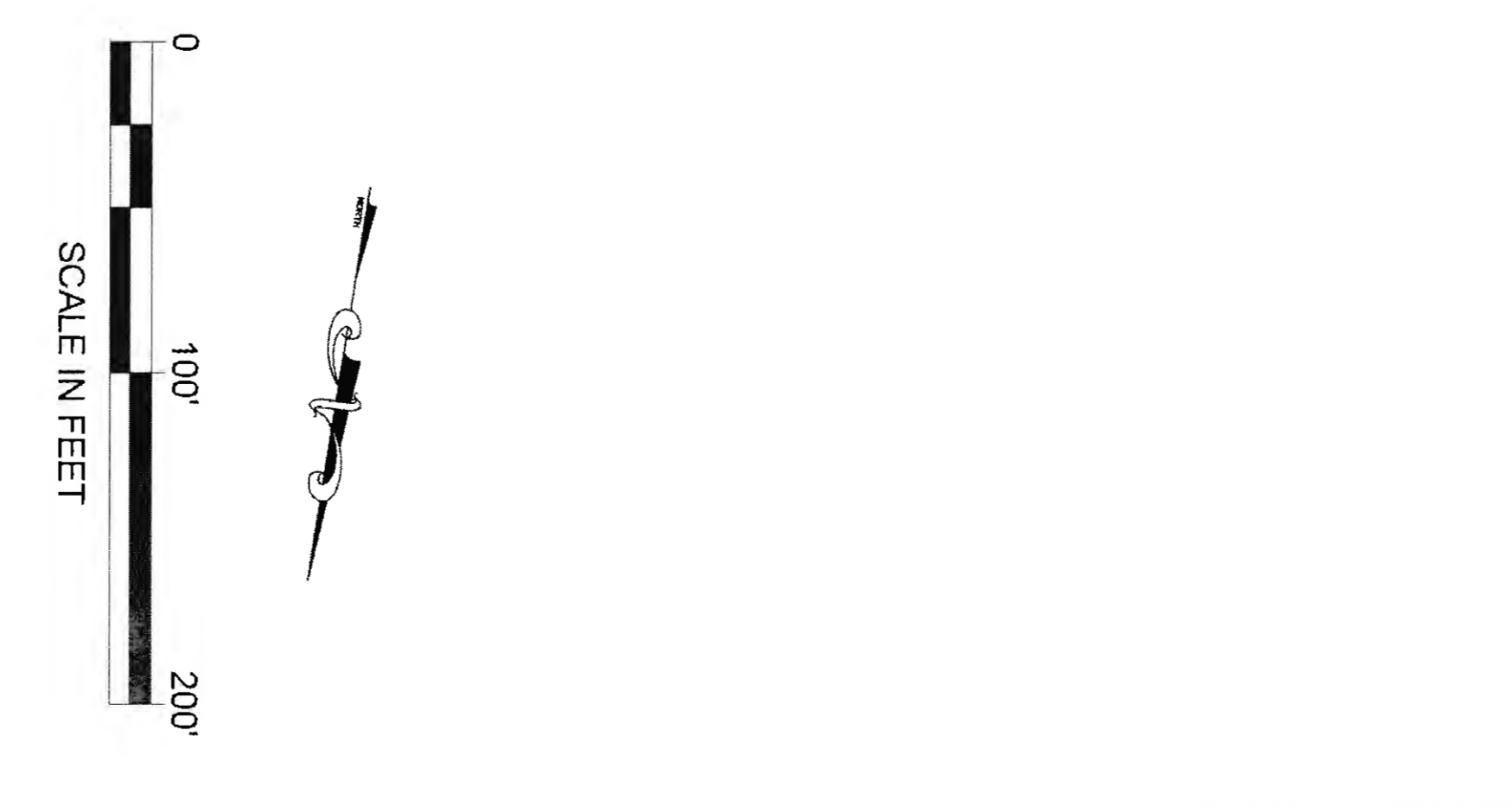
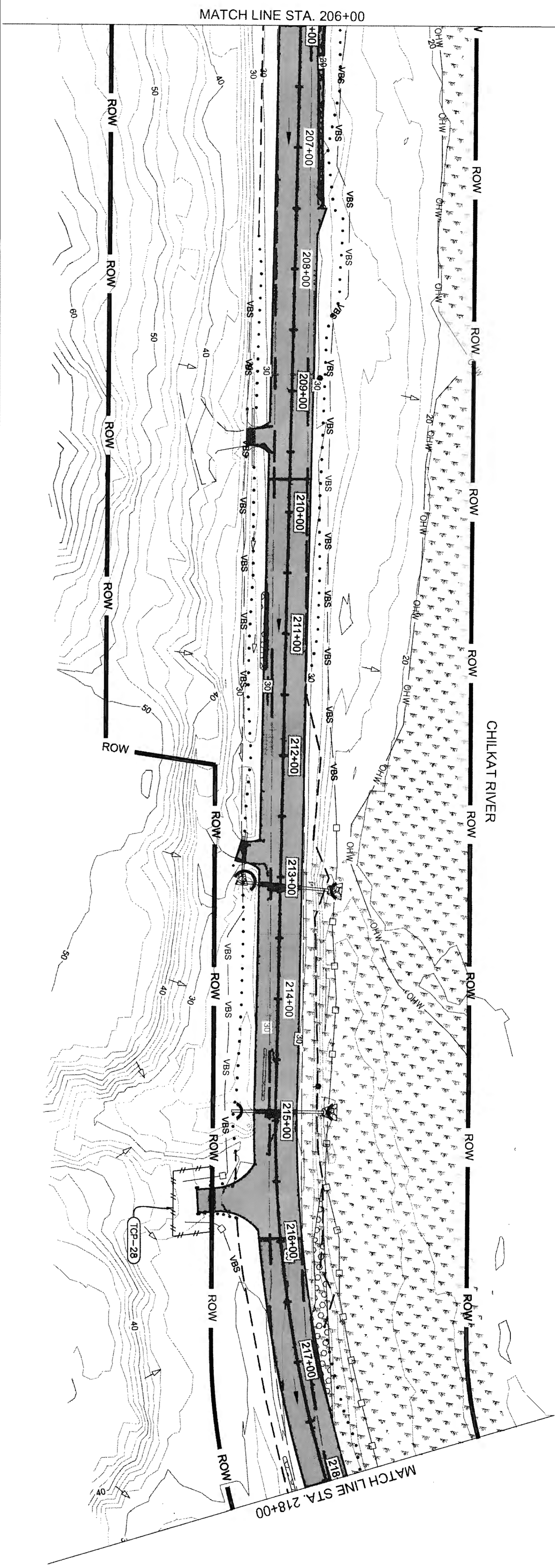
PLANS DEVELOPED BY: DOW 5368 COMMERCIAL BLVD. JUNEAU, AK 99801 (907) 780-3533 #AEC1848	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES <b>HAINES HIGHWAY RECONSTRUCTION          MILEPOST 3.9 TO 12.2</b> <b>TRAFFIC CONTROL PLAN</b>
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 PHONE: (907) 780-3533  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER  
 CERTIFICATE OF AUTH. #: AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T1	162



- ESCP NOTES:**
- REFER TO ESCP IN APPENDIX C OF THE SPECIAL PROVISIONS.
  - INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO EARTH DISTURBING ACTIVITIES.
  - THE LOCATIONS OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO CONTRACT SPECIFICATION SECTION 641 AND THE ESCP.
  - REFER TO D-SHEET TABLES FOR INVASIVE SPECIES LOCATIONS AND TYPES.

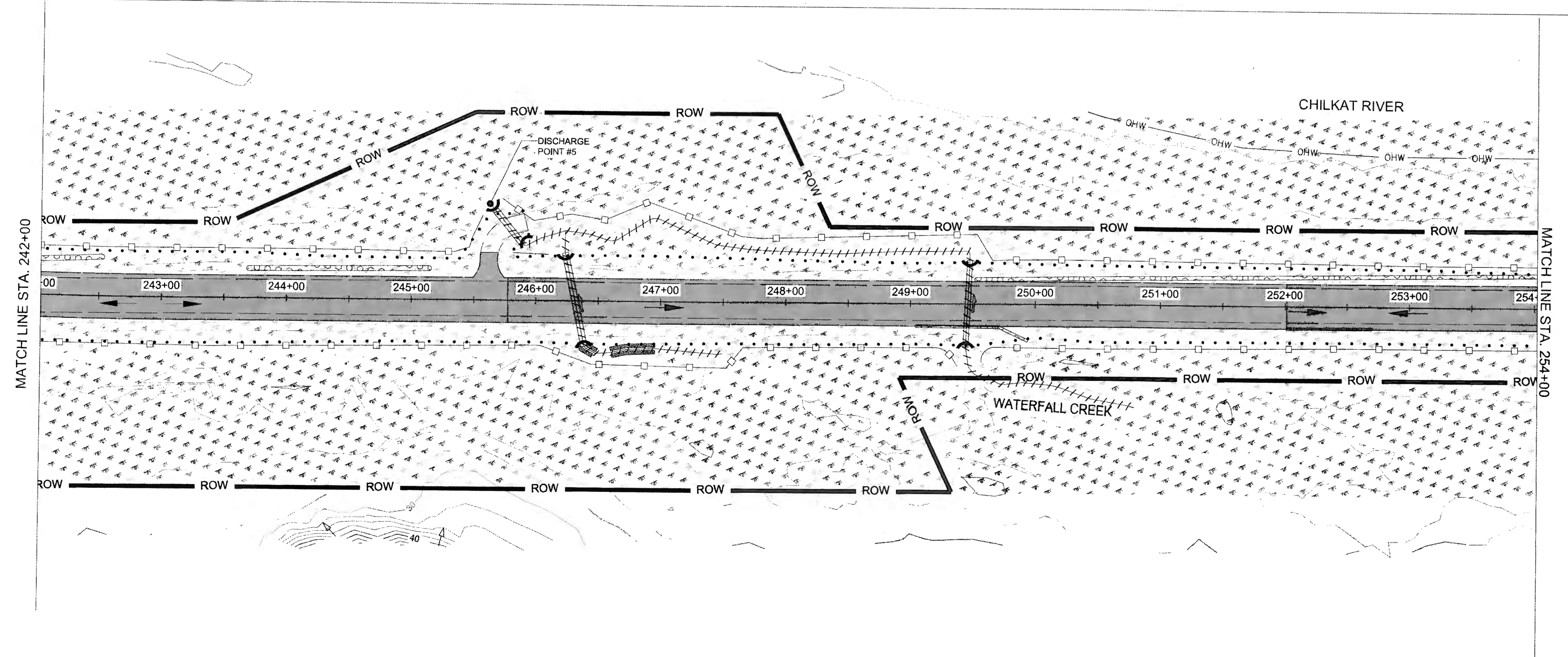
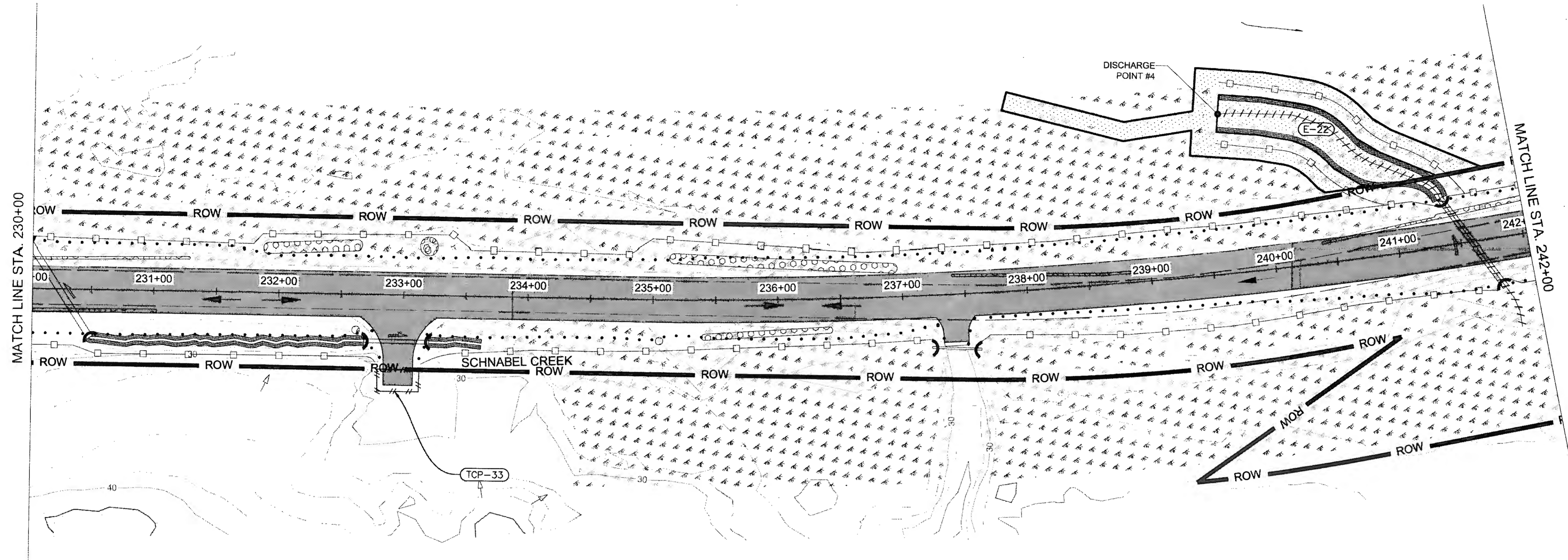


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHW00126	2017	T2	162

T1+5 6-25-20

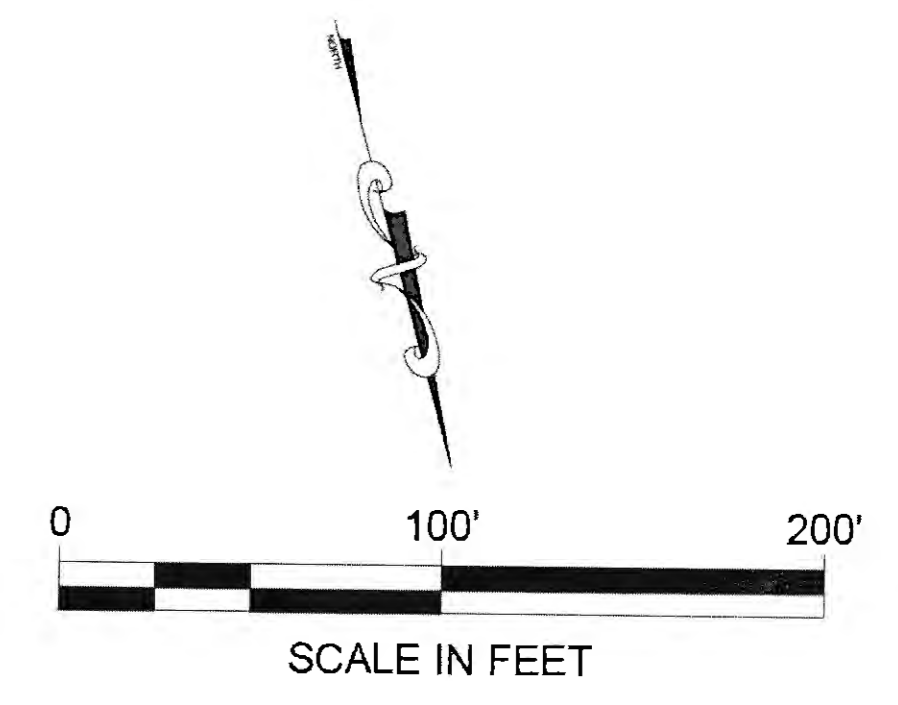
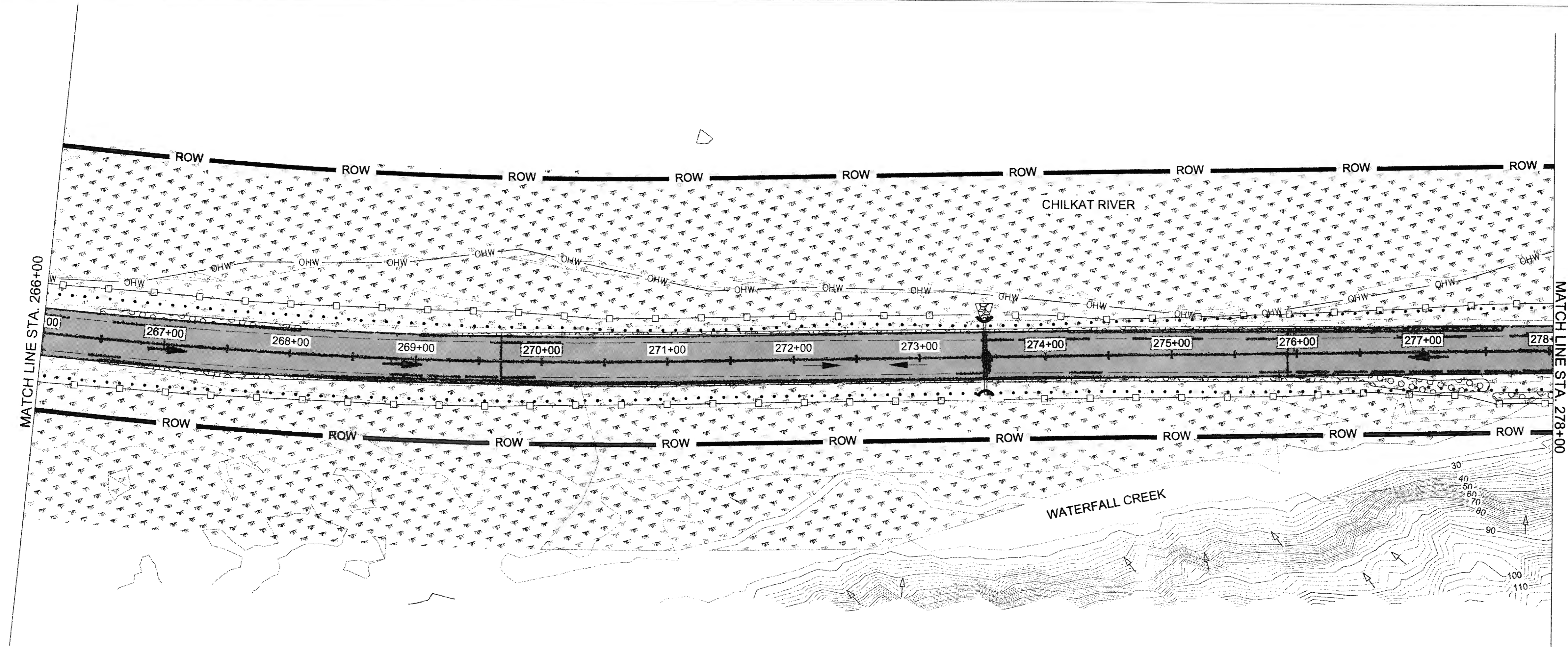
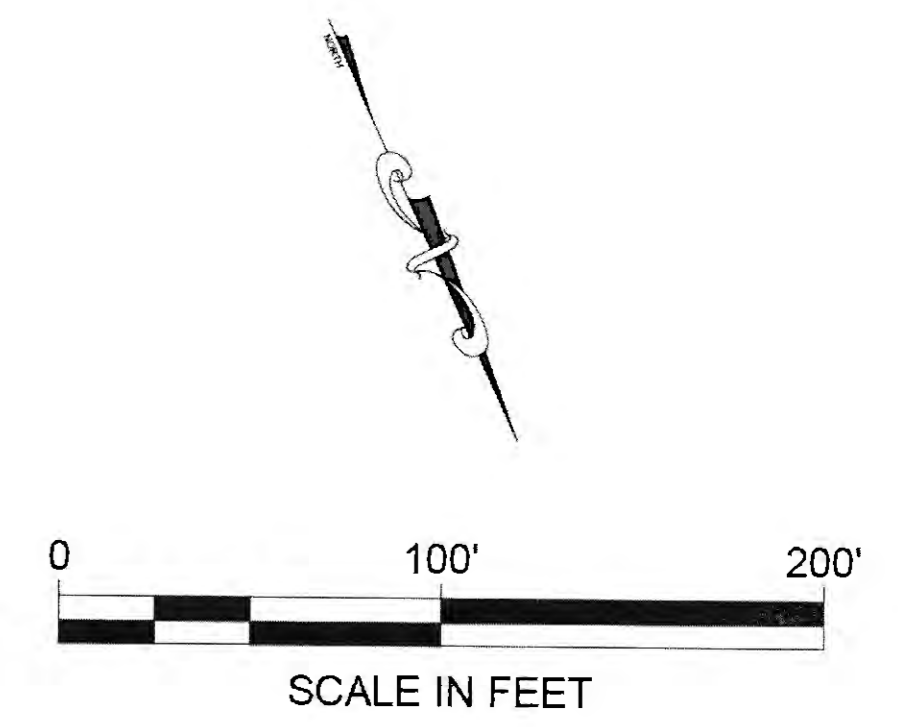
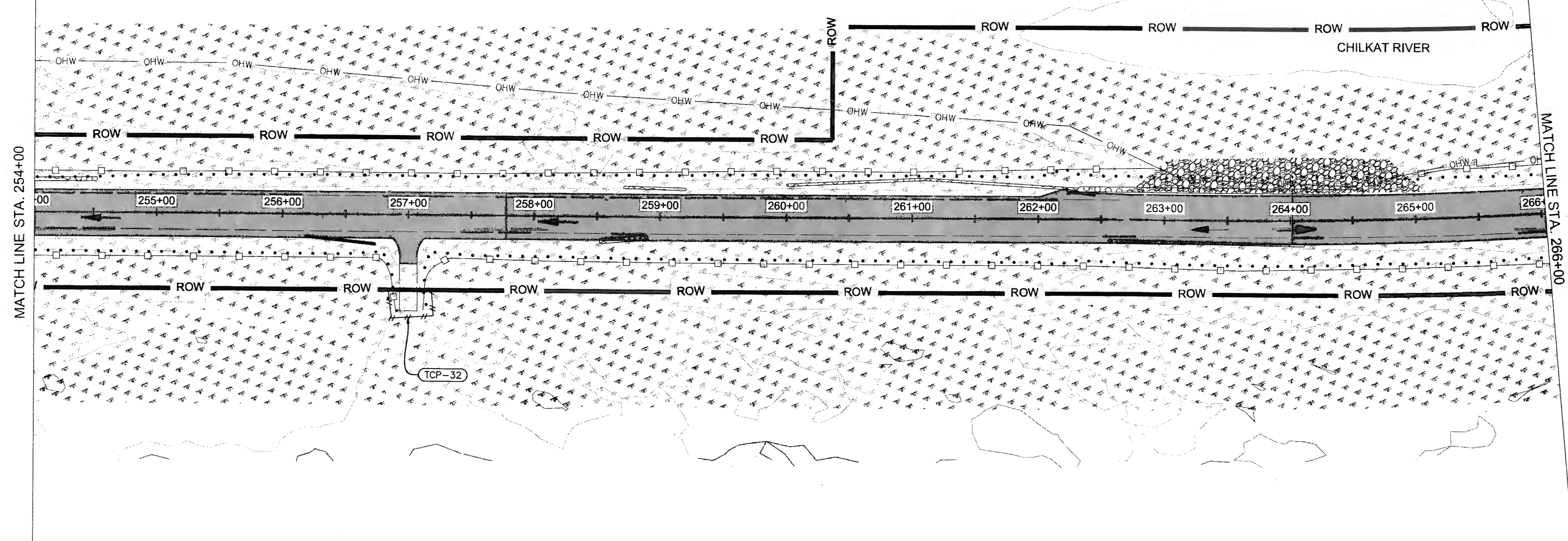
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 CHECKED S. NOBLE  
 DESIGNED N. HOBBS  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH #. AECLB48

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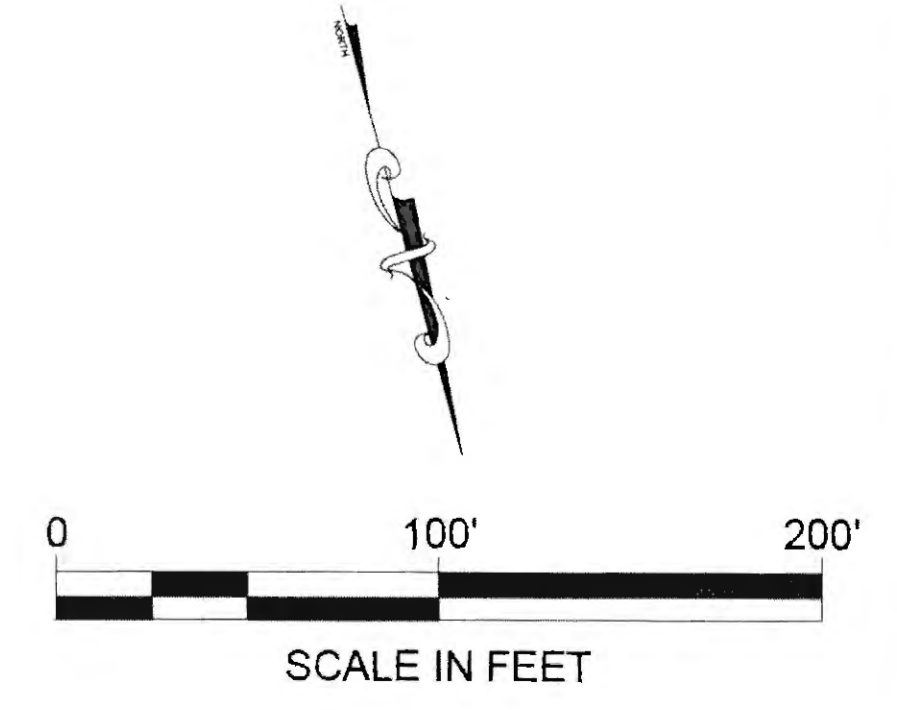
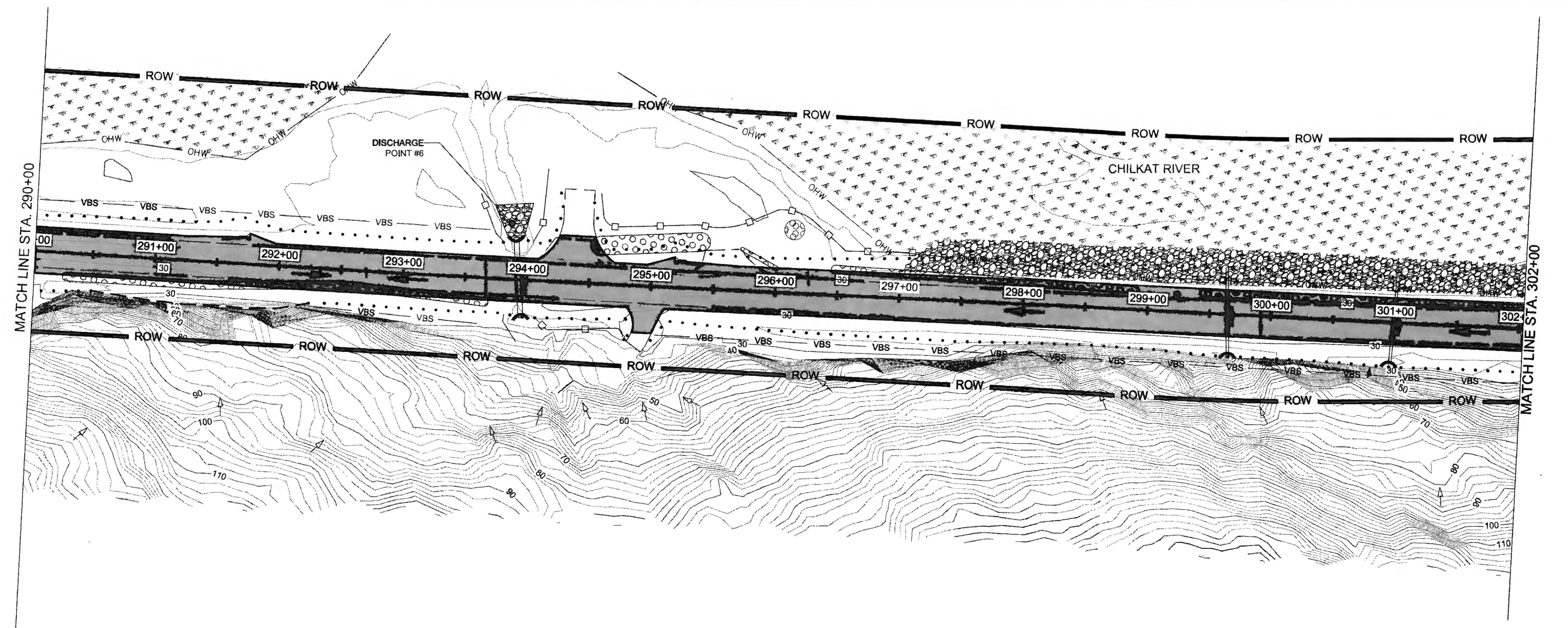
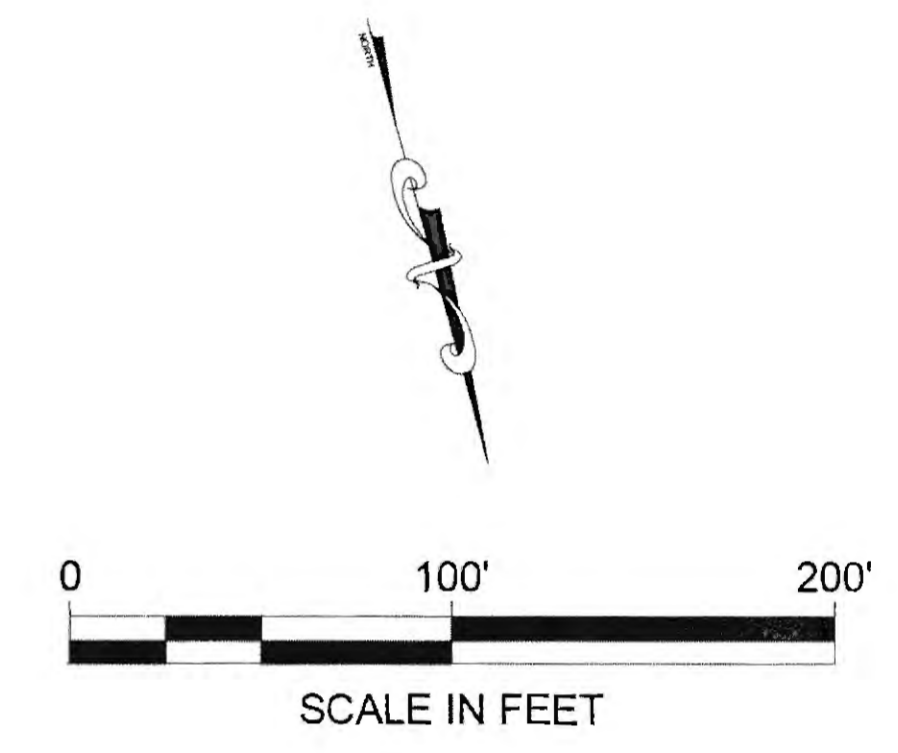
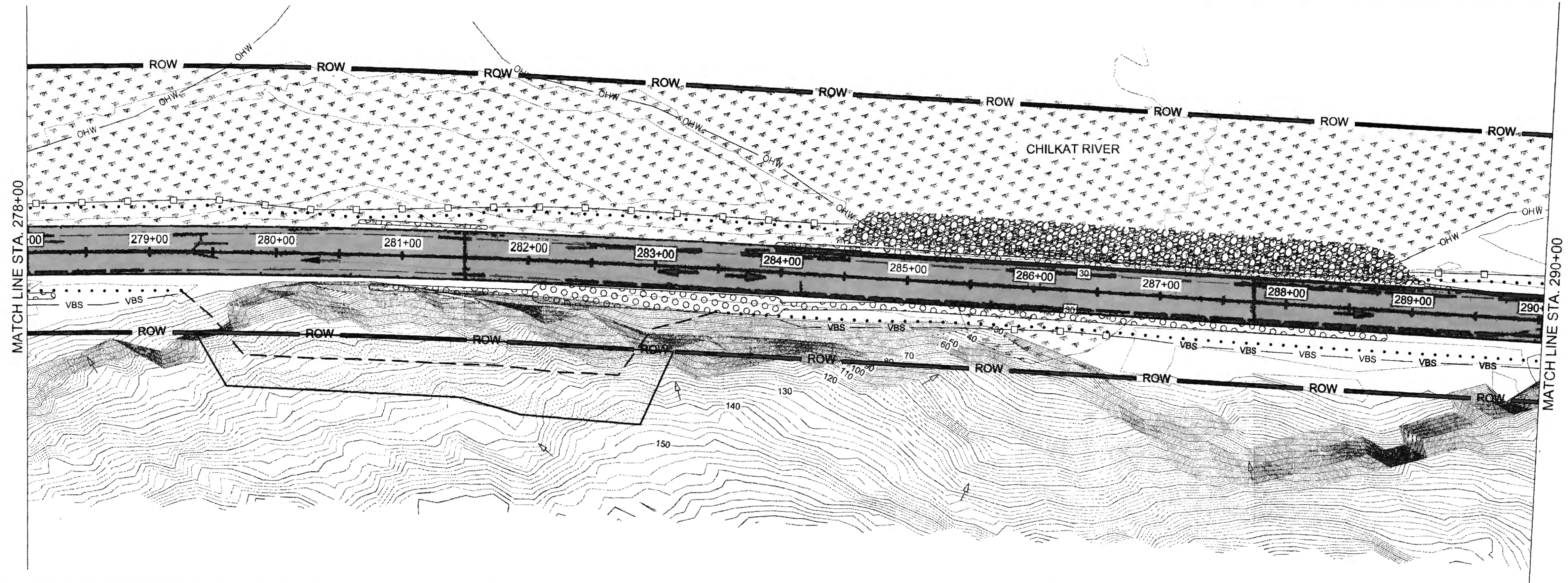
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 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # 1 AEL848

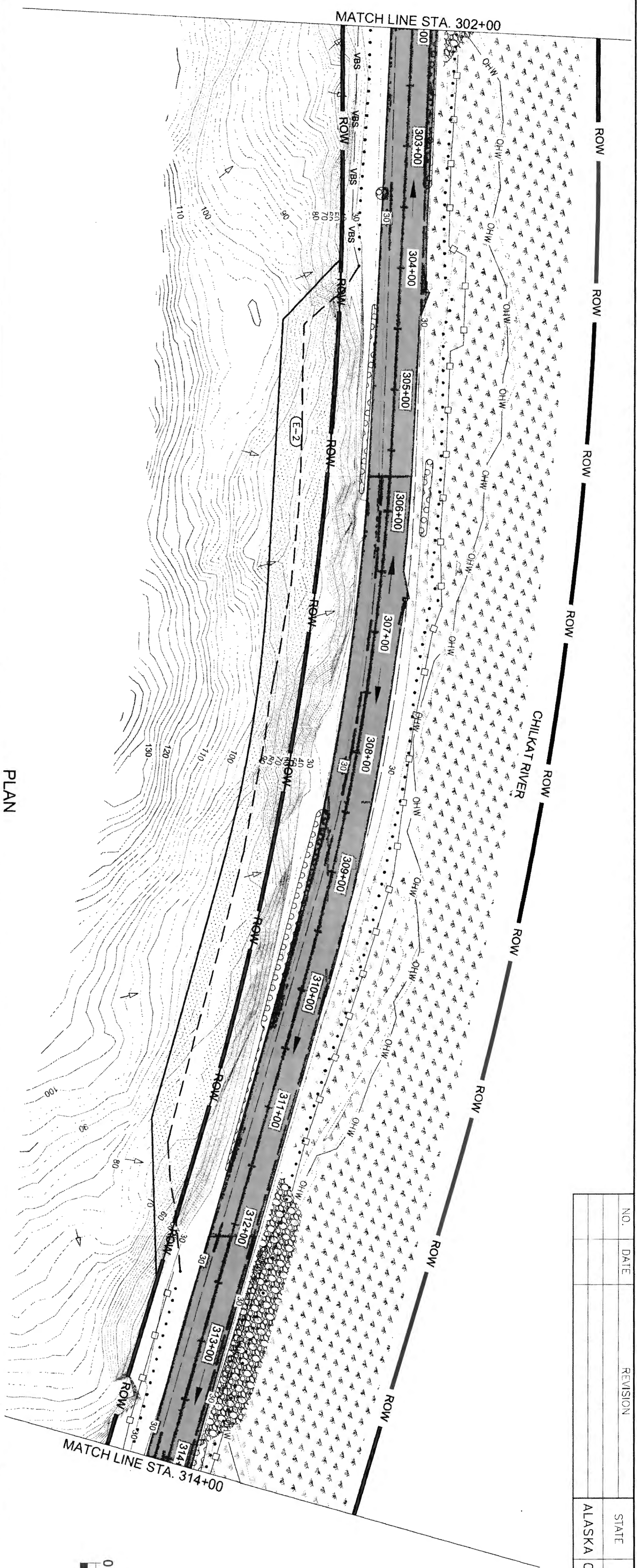
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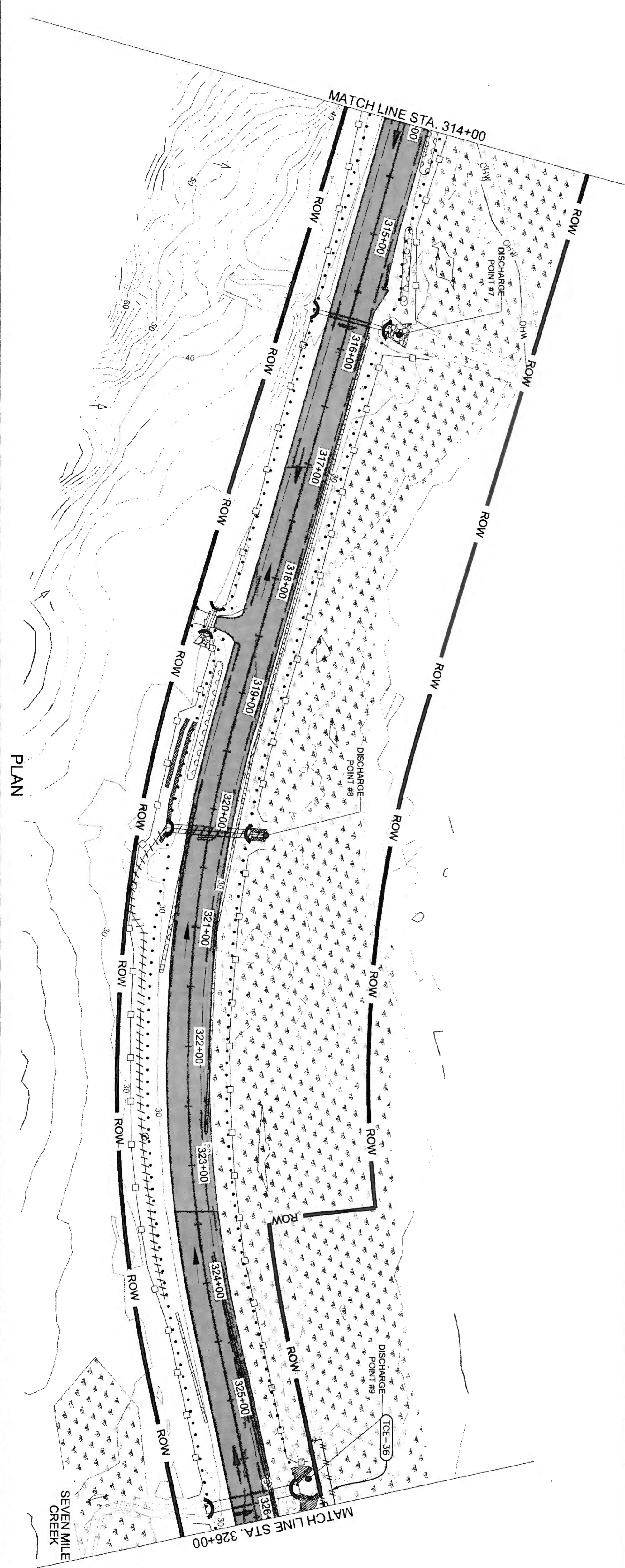
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 PHONE: (907) 780-3533  
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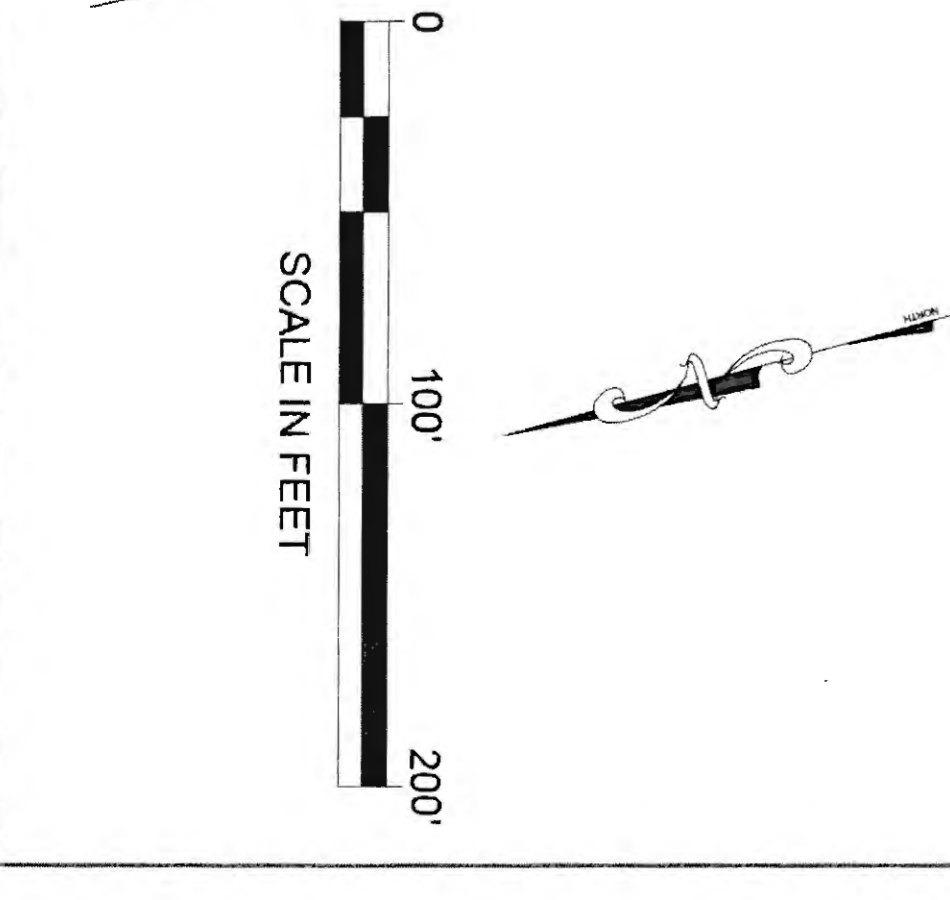


PLAN

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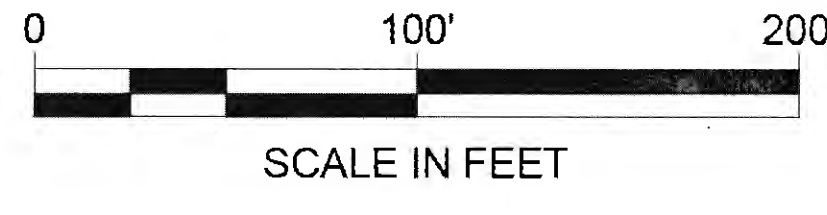
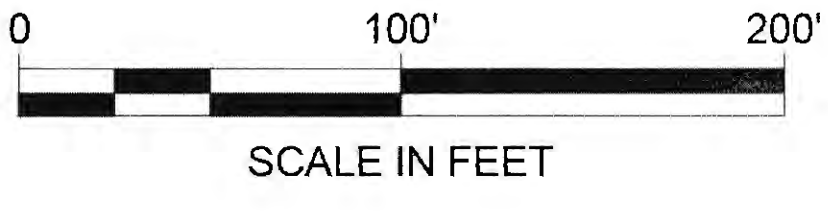
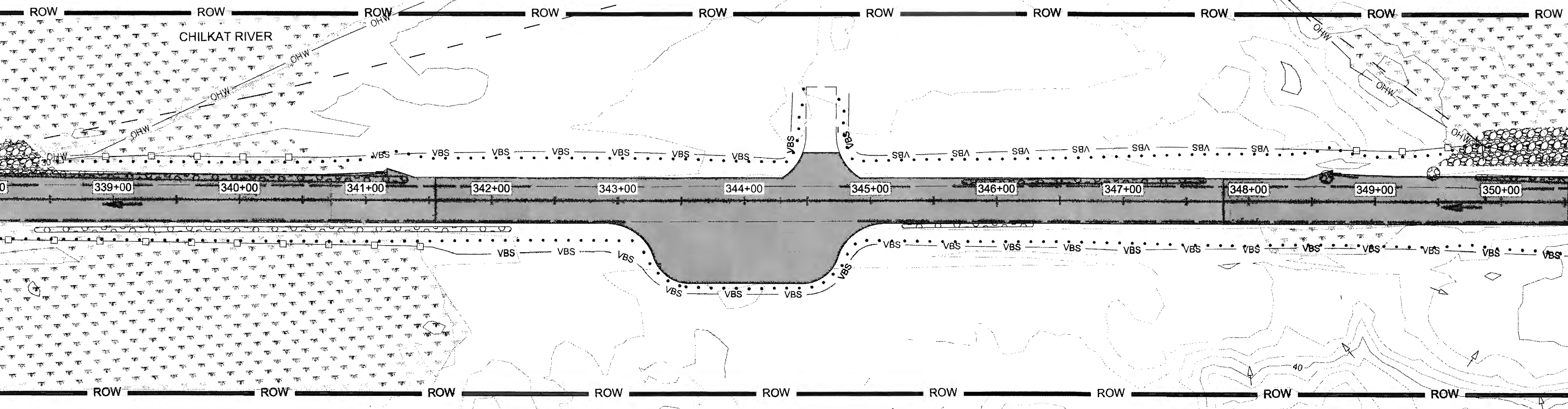
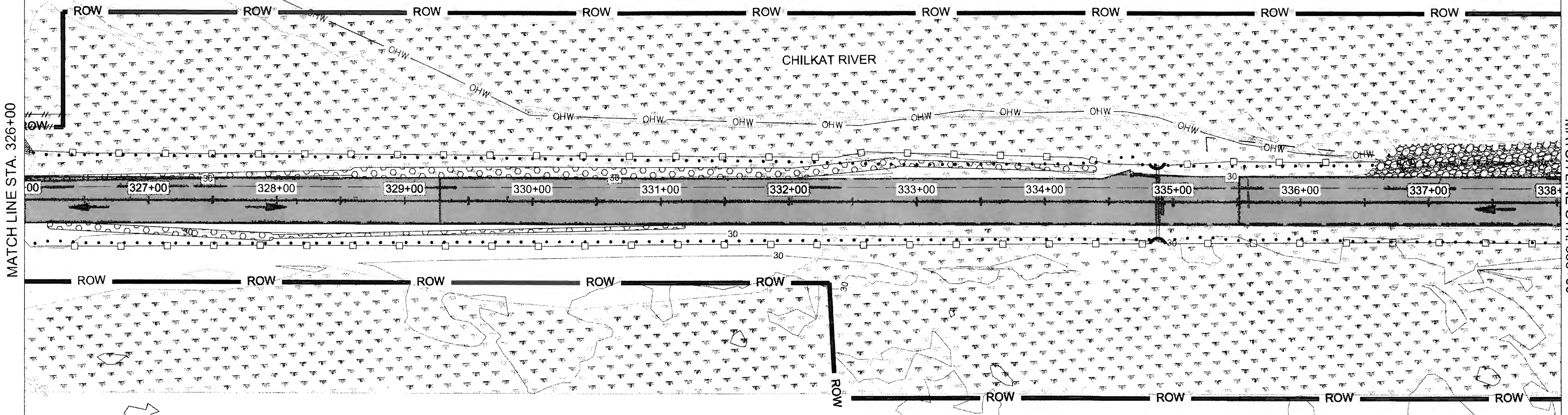
PLAN





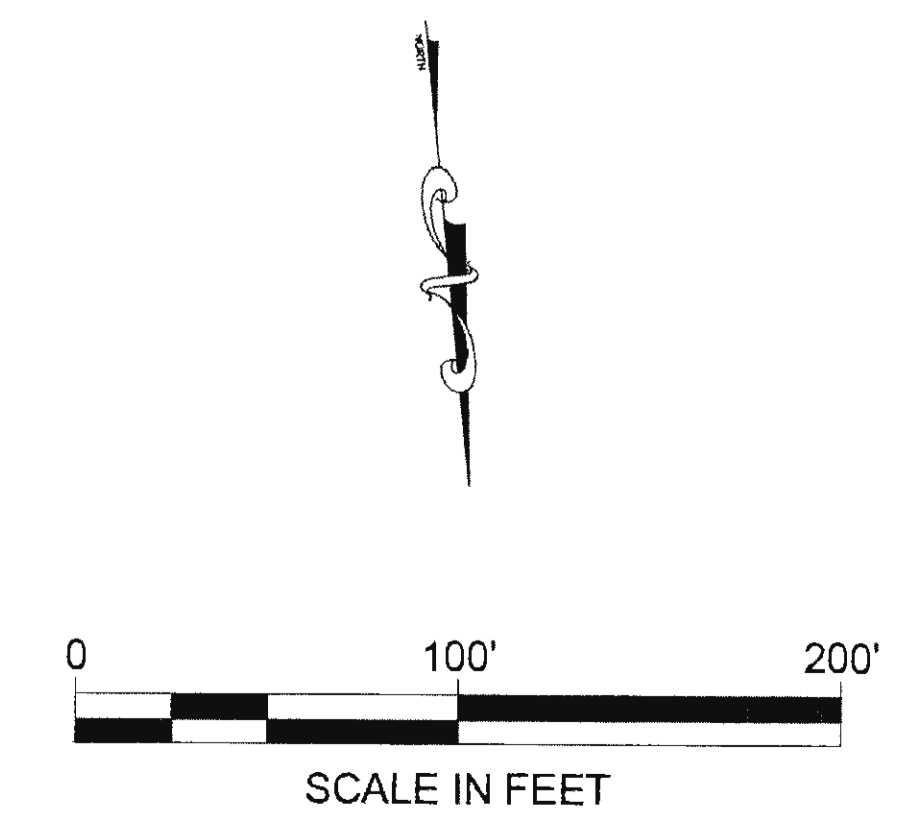
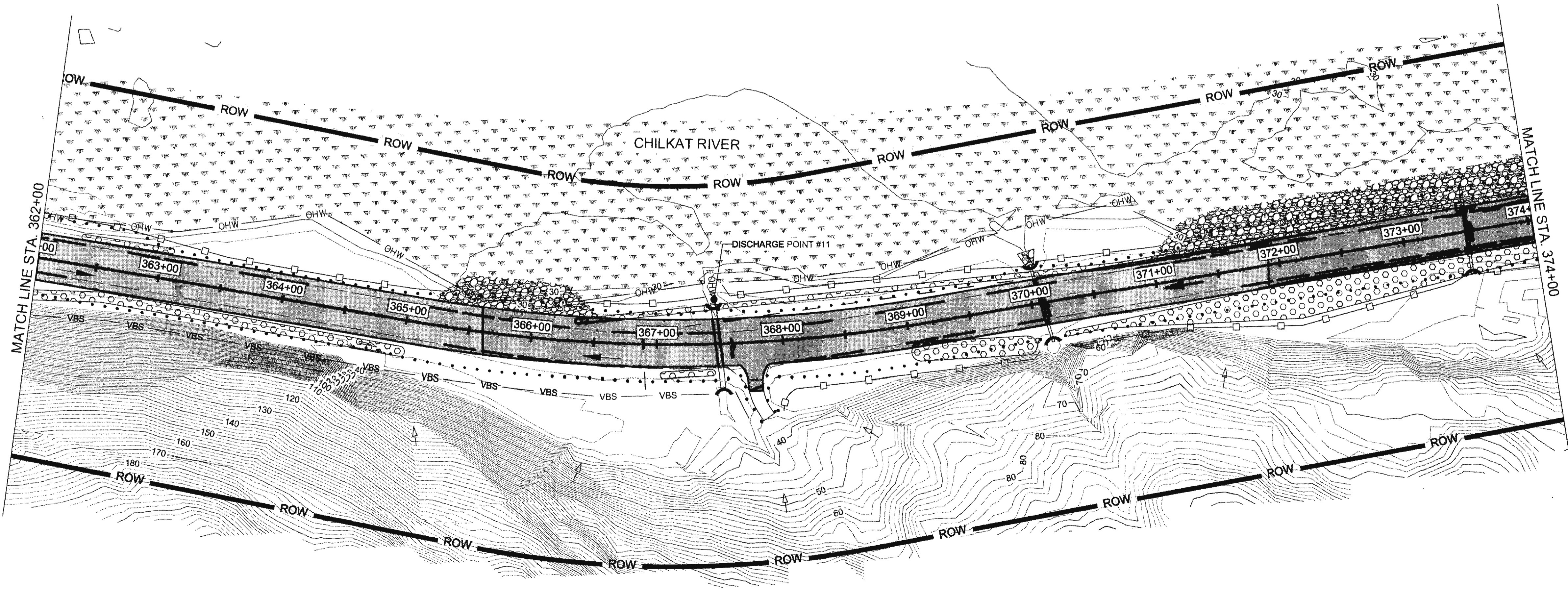
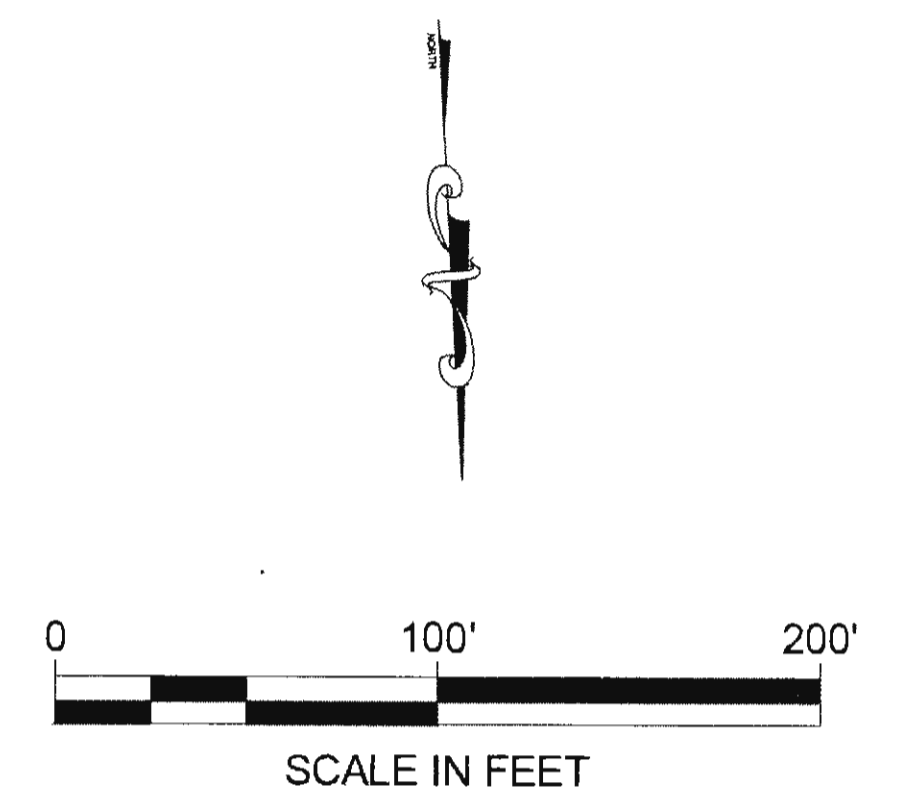
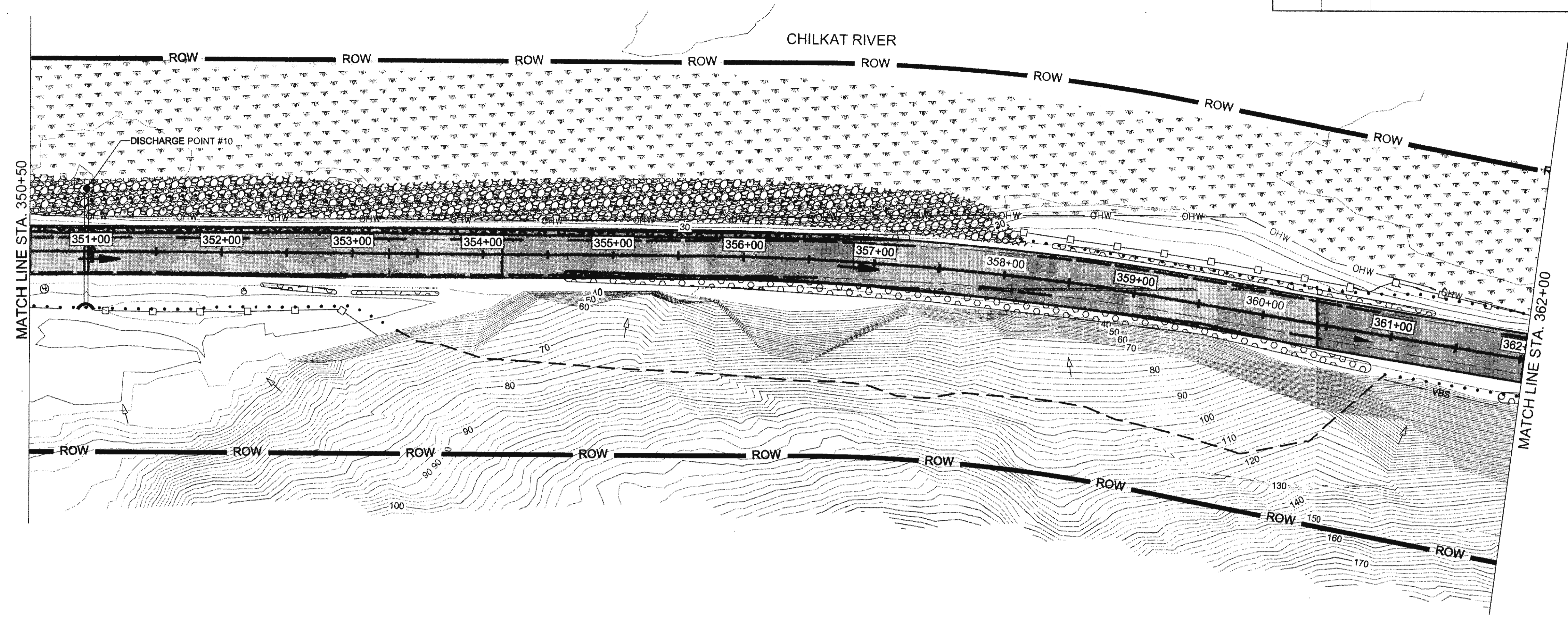
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 CERTIFICATE OF AUTH #1 AECL948  
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 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T7	162



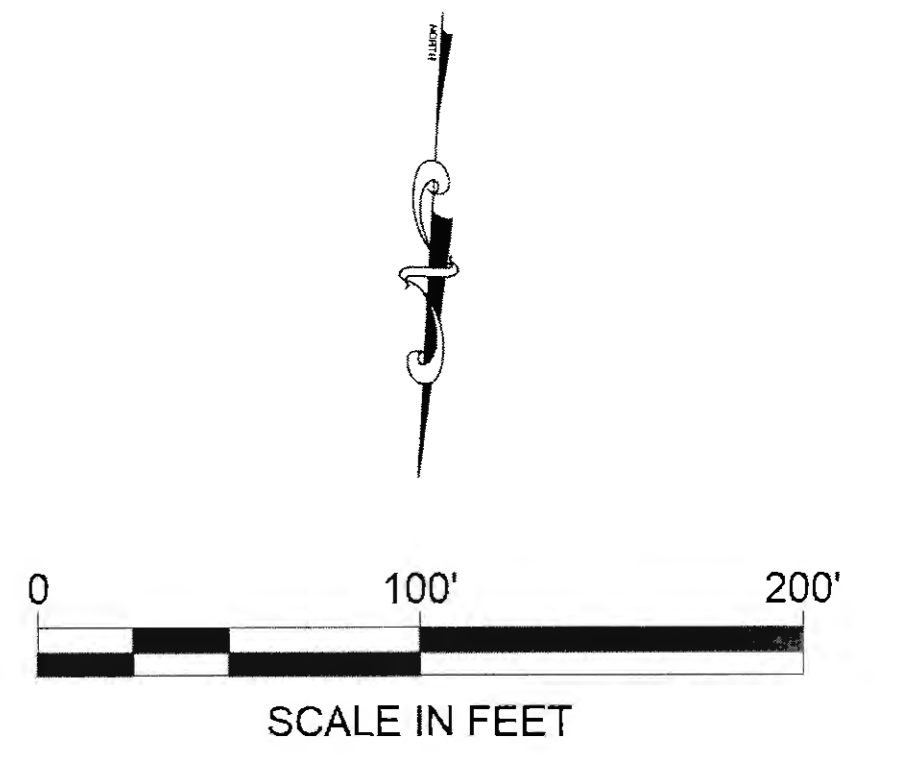
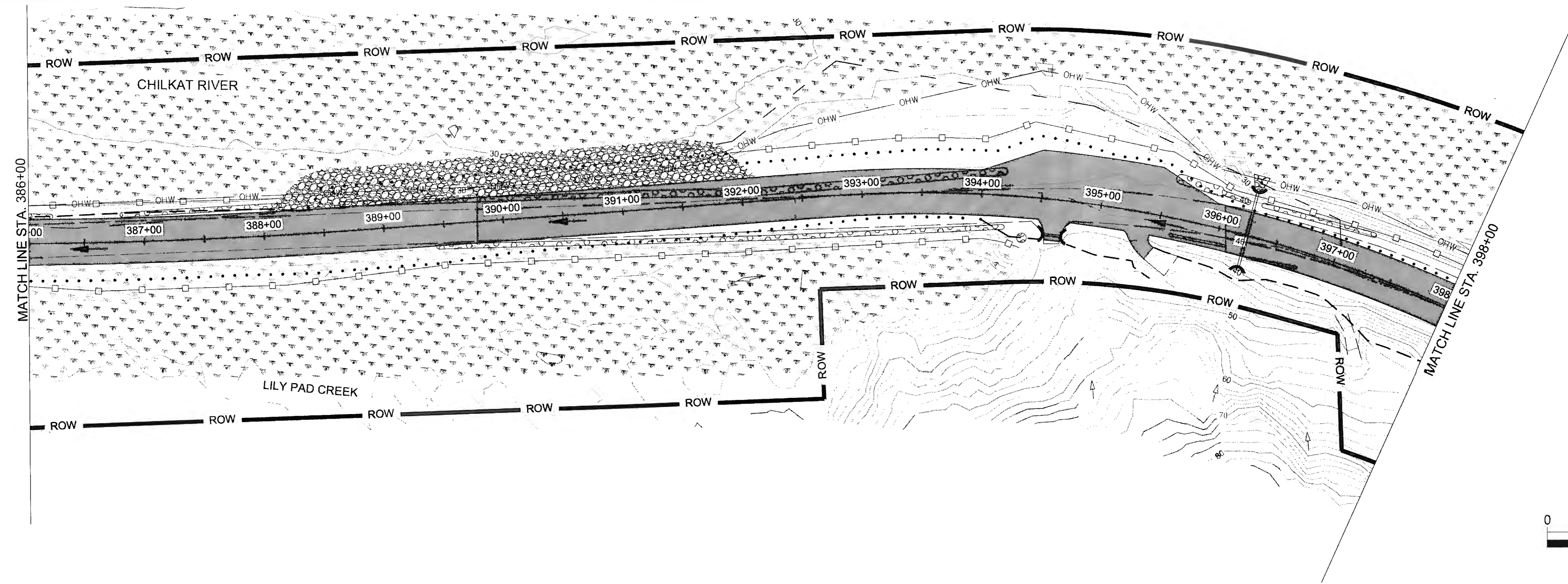
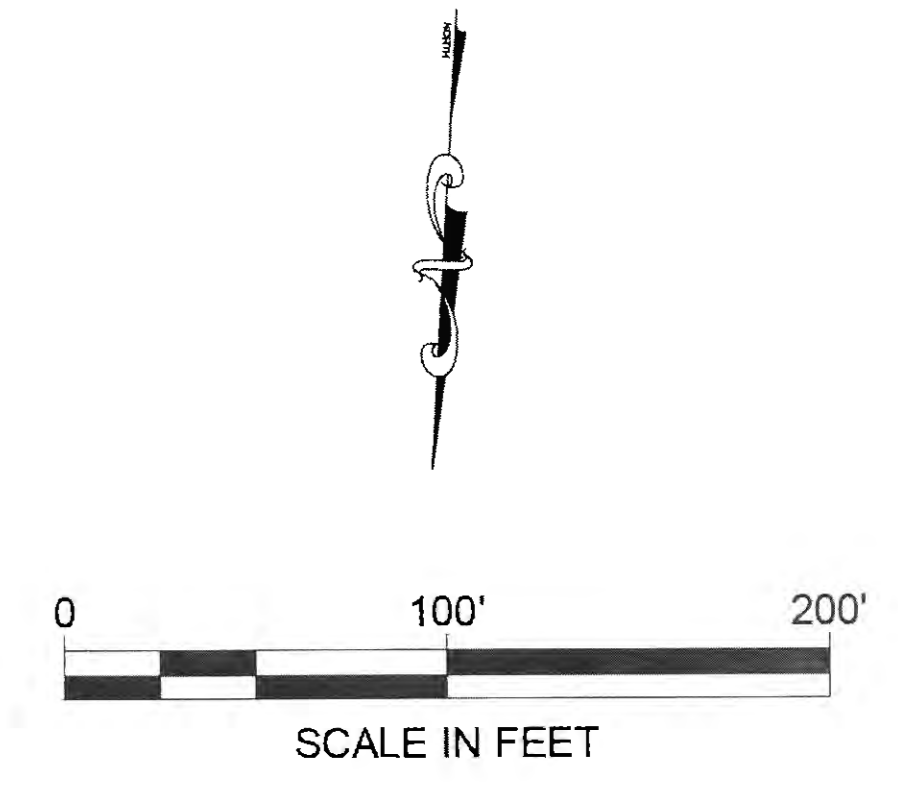
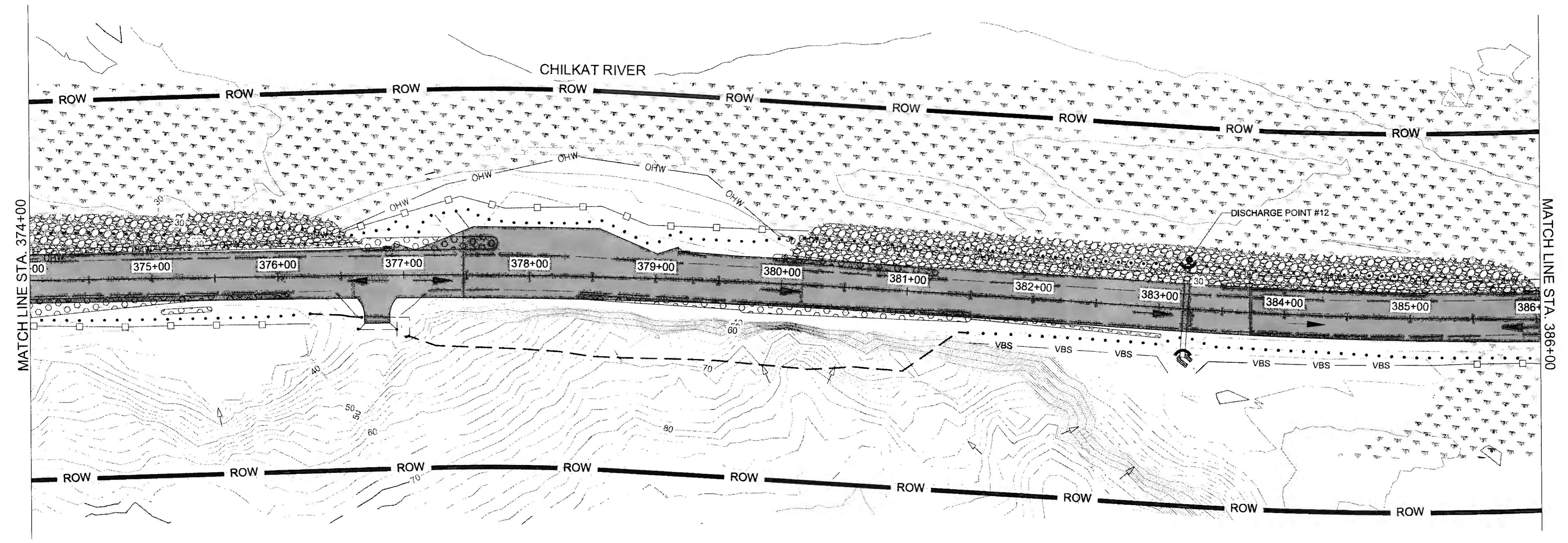
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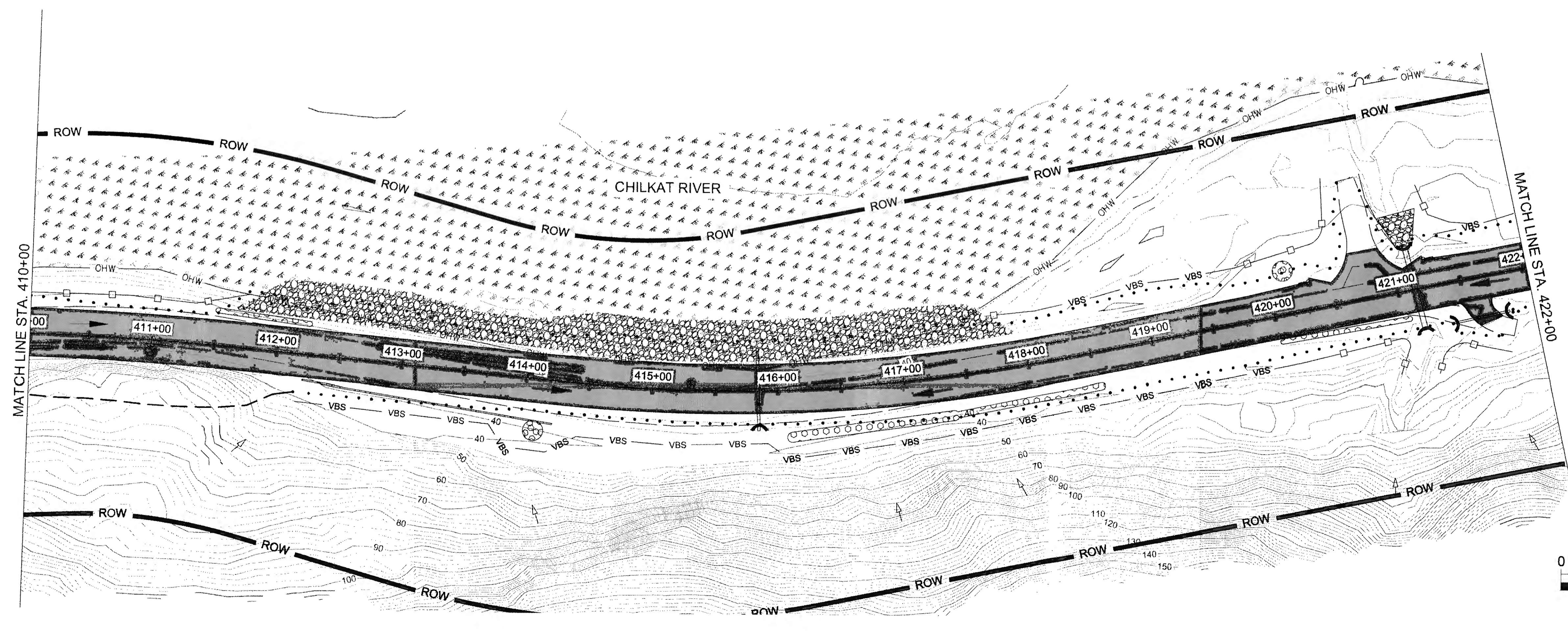
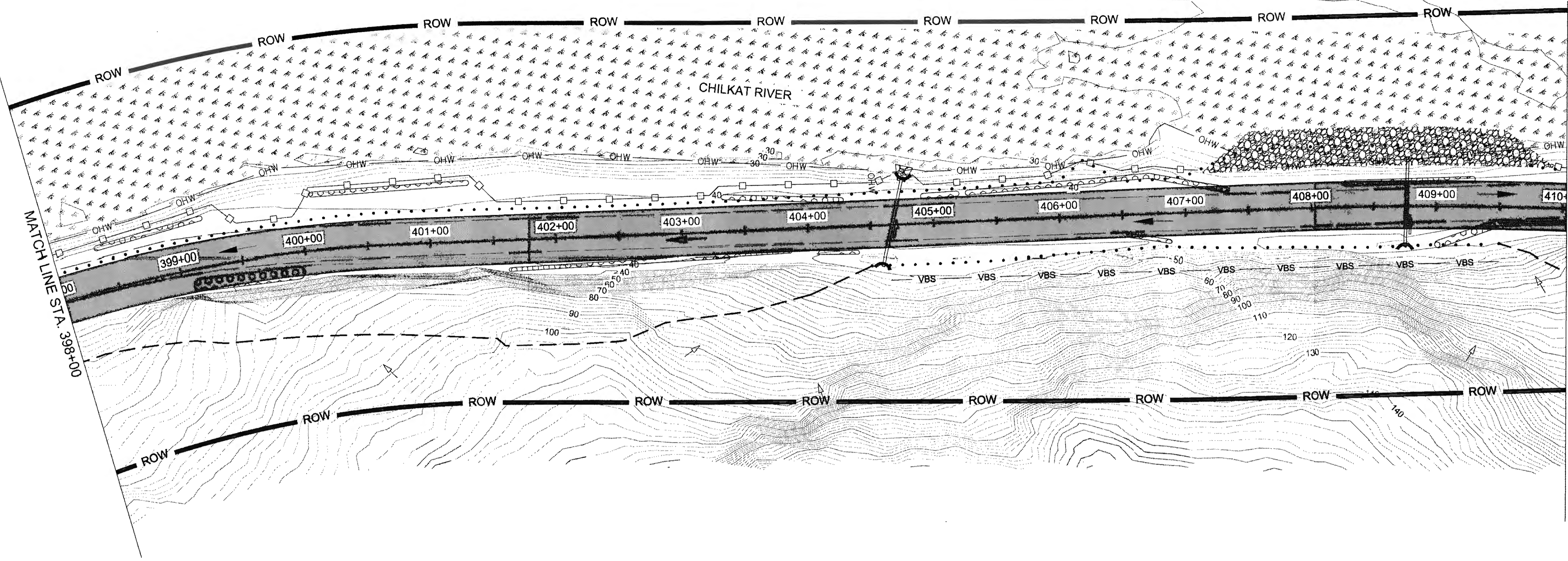
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 LAYOUT: T9  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER



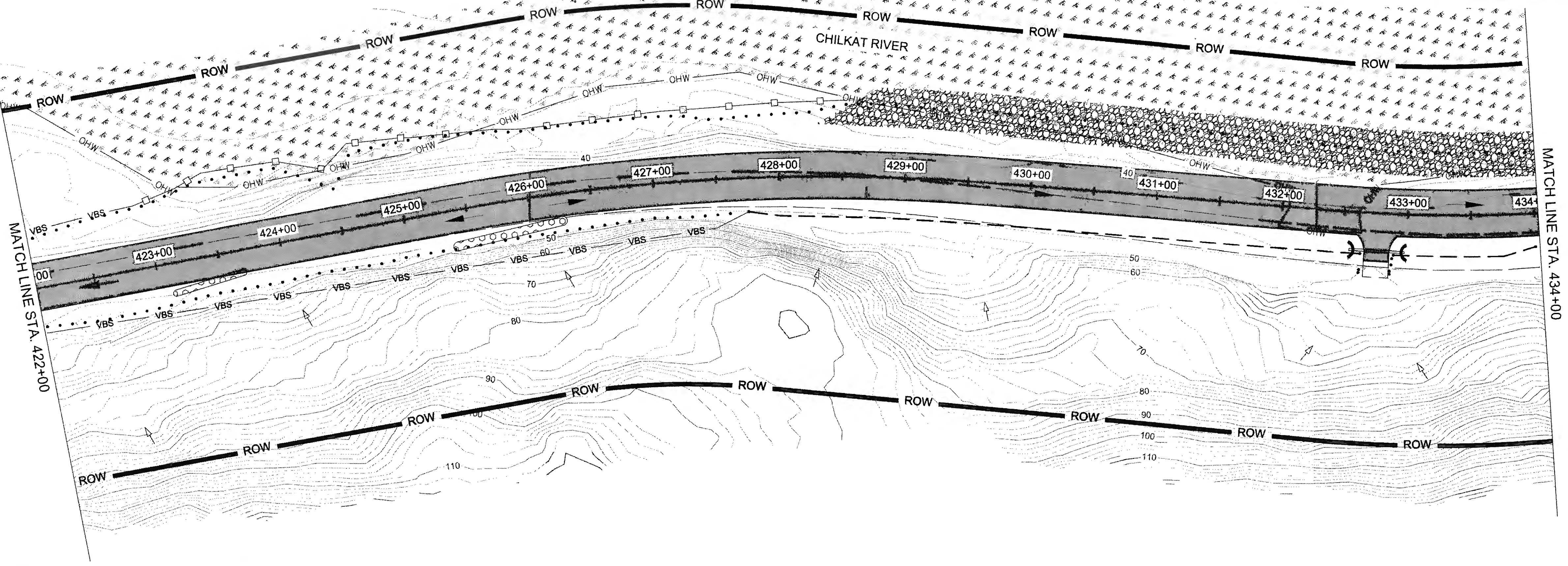
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 ADDRESS 5368 COMMERCIAL BLVD. JUNEAU, AK 99801  
 DATE 8/23/2017 12:54 LAYOUT T10  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 CERTIFICATE OF AUTH # : AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T10	162

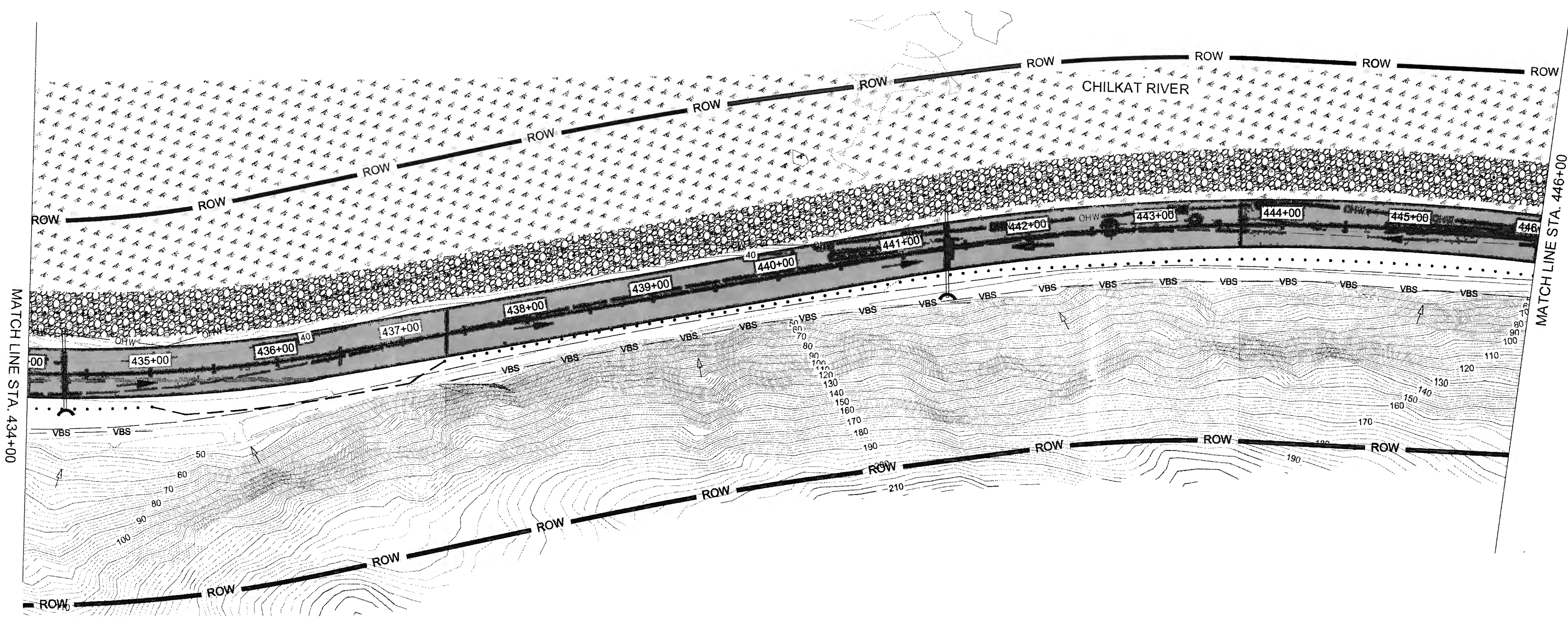
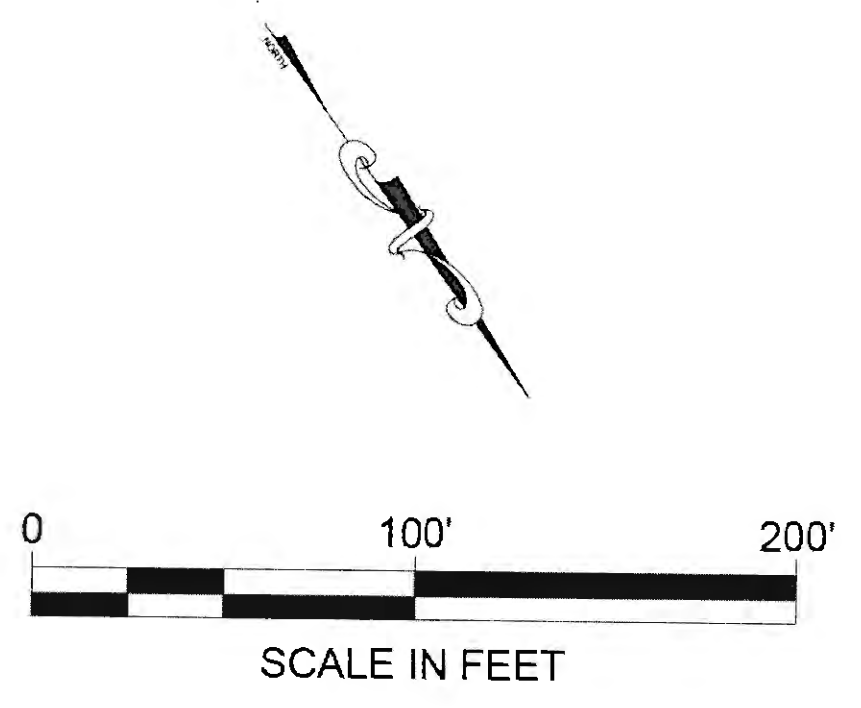


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 ADDRESS 5168 COMMERCIAL BLVD. JUNEAU, AK 99801  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS  
 CHECKED S. NOBLE  
 DRAFTED S. TYLER  
 DATE 6/23/2017 12:54  
 LAYOUT T11

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T11	162

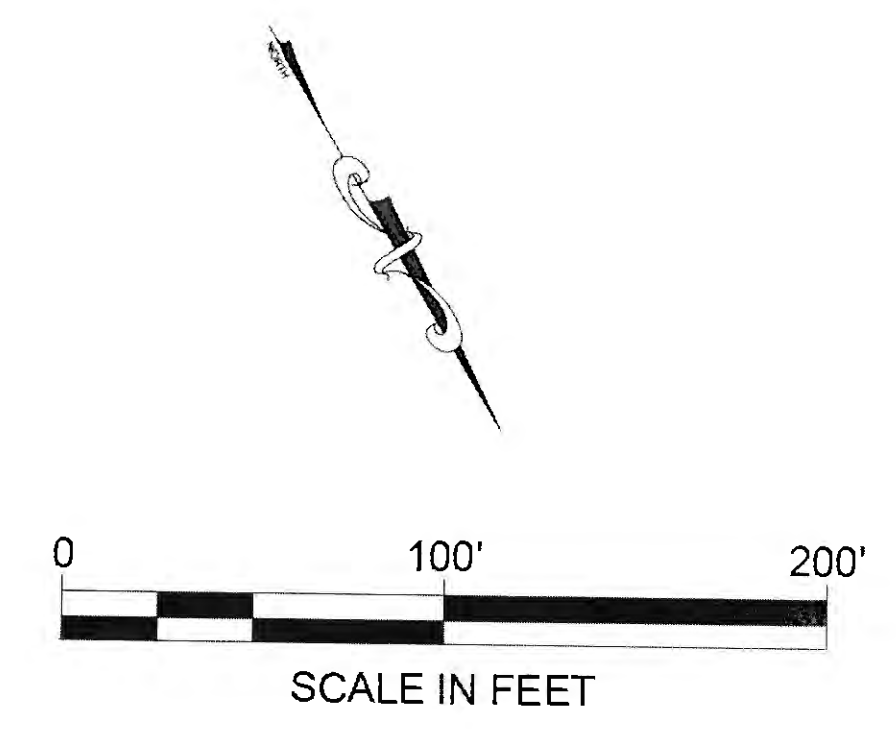


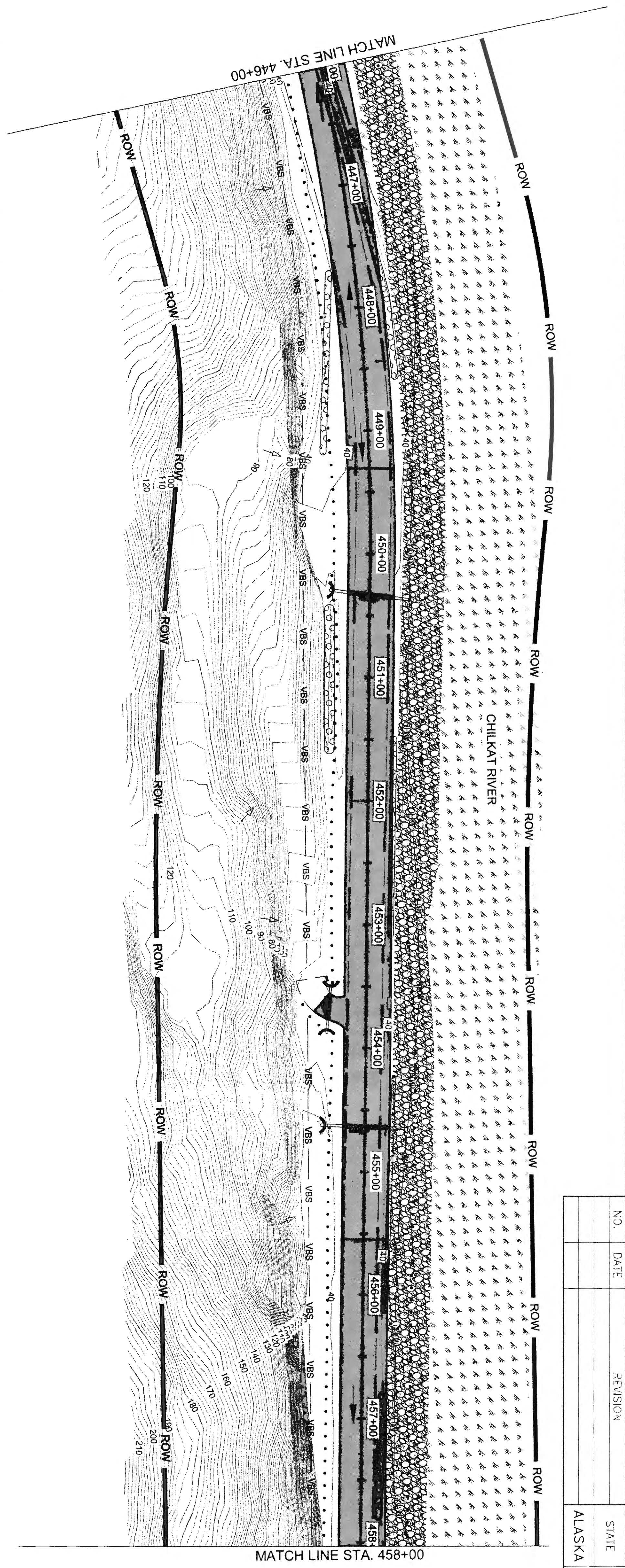
MATCH LINE STA. 434+00



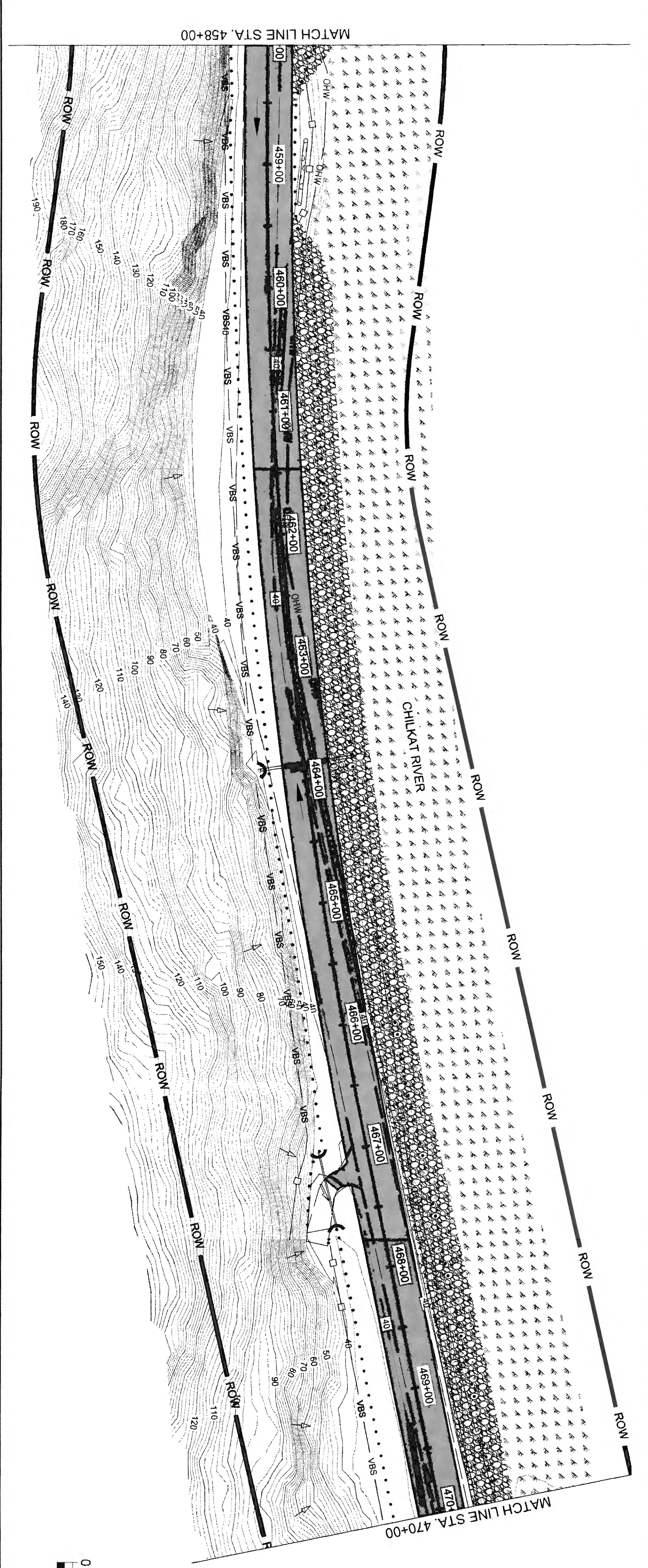
MATCH LINE STA. 434+00

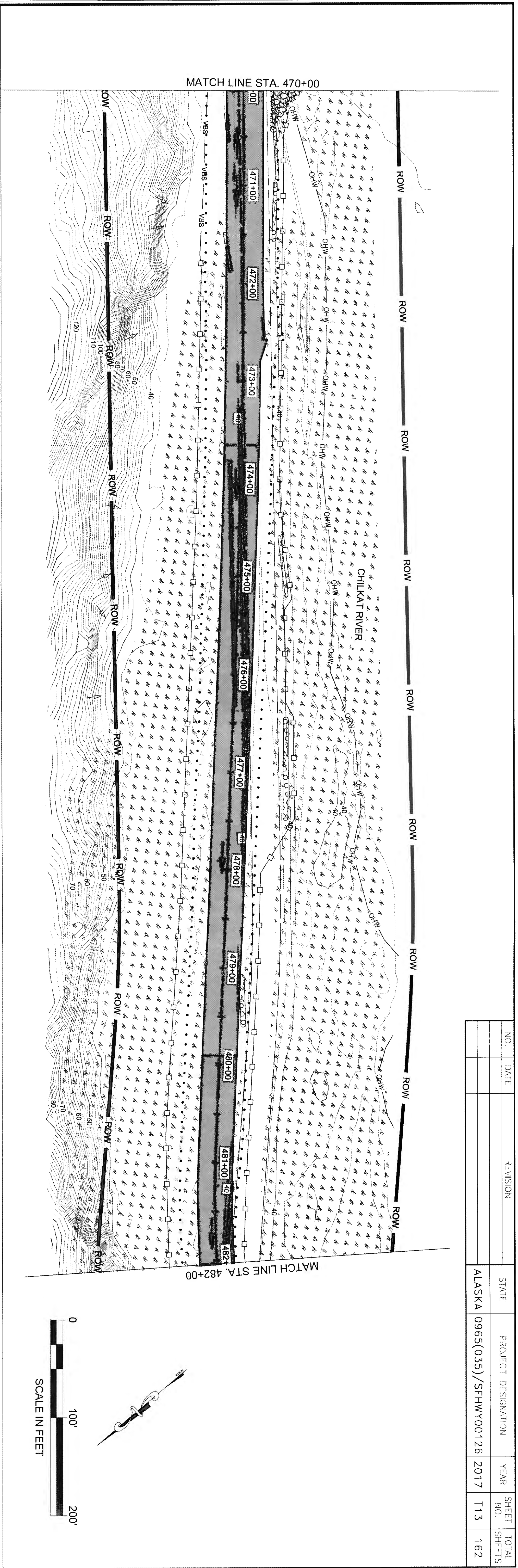
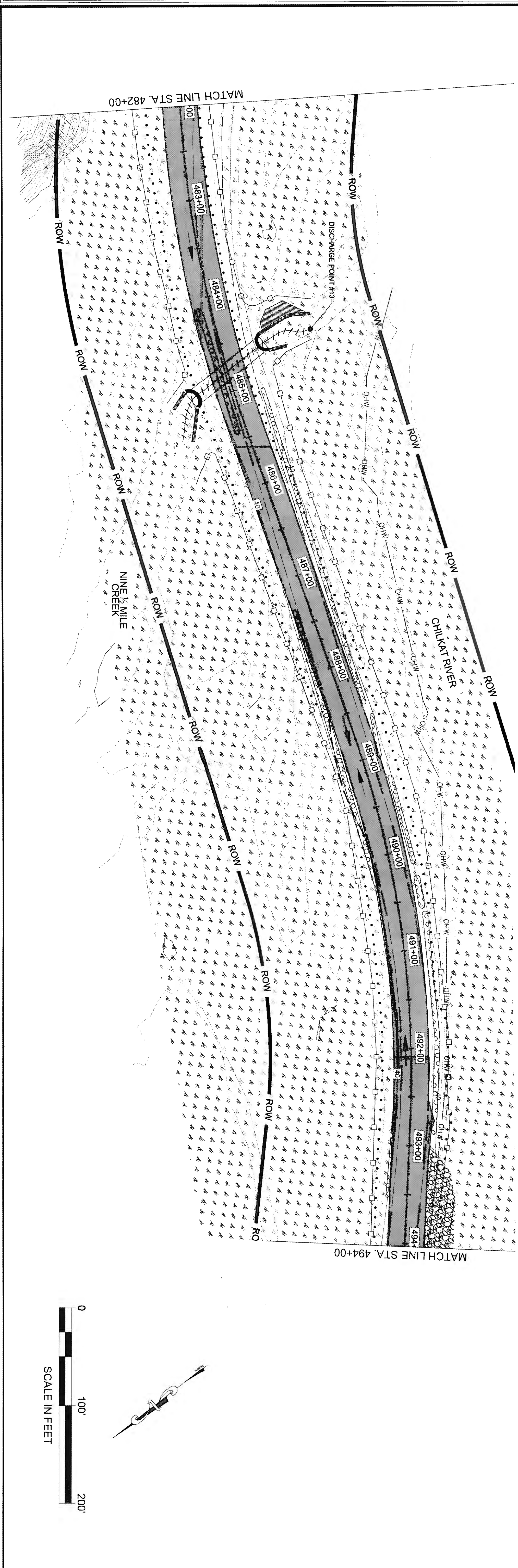
MATCH LINE STA. 446+00





NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T12	162



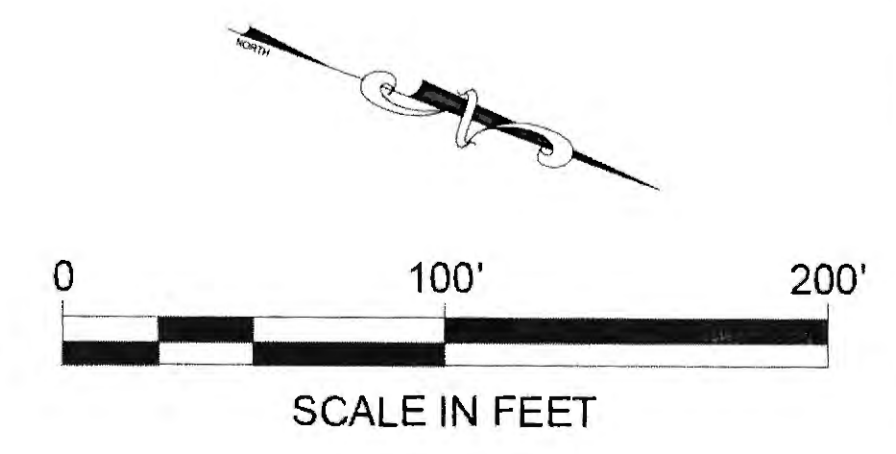
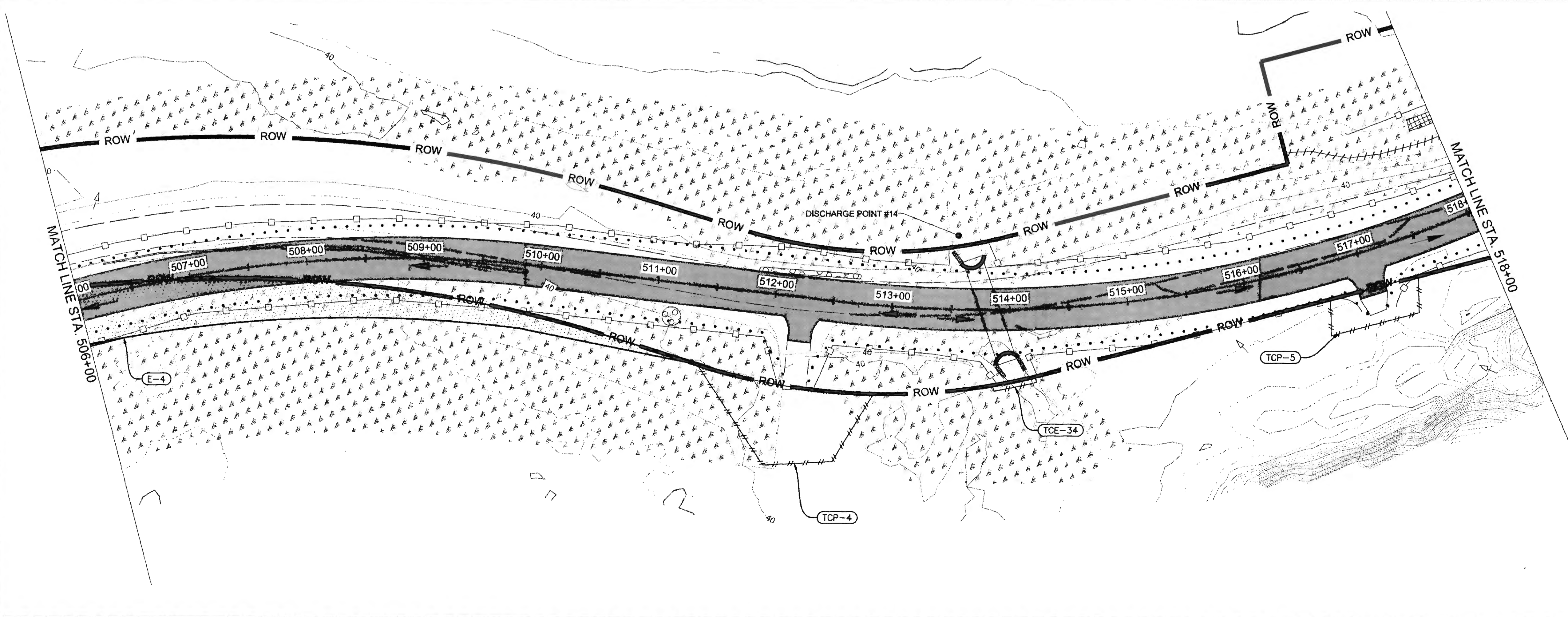
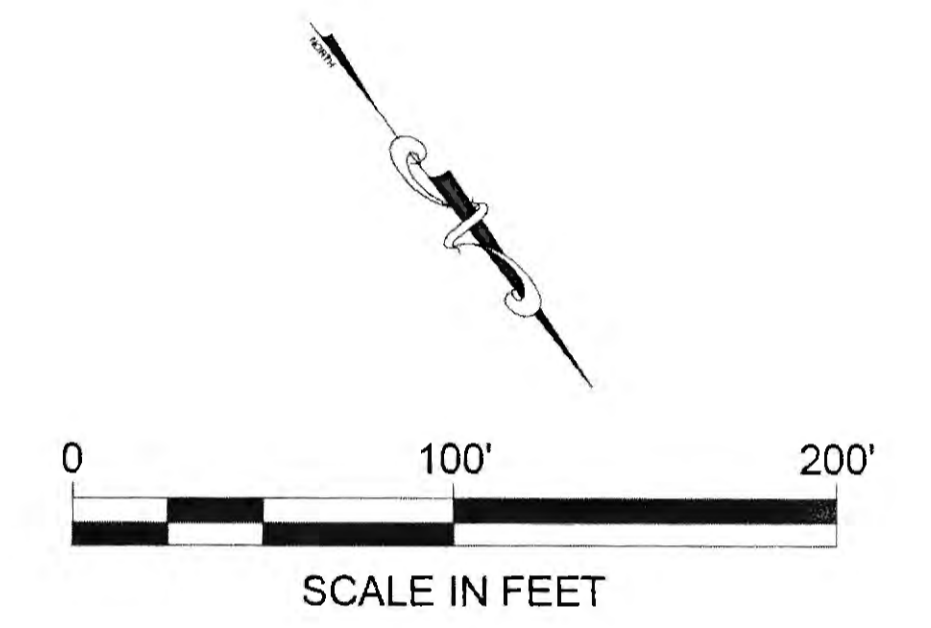
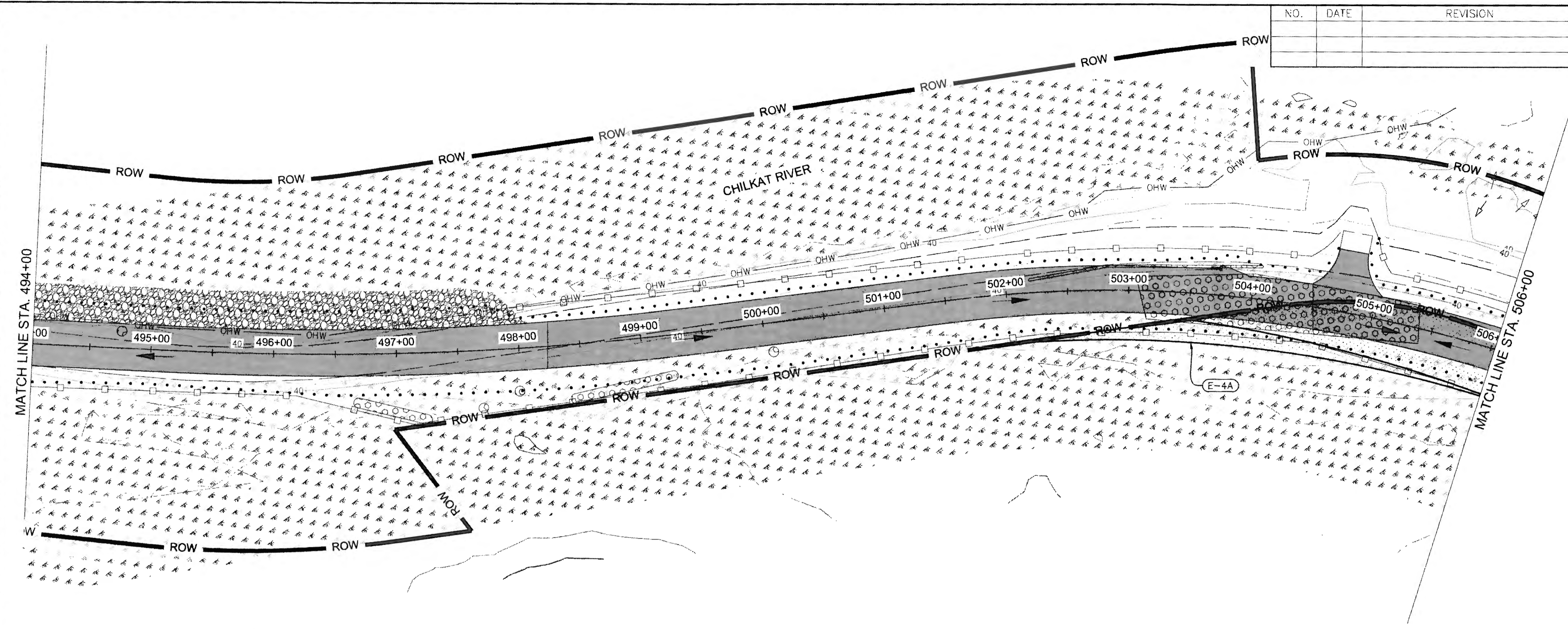


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T13	162

T13 6-26-20

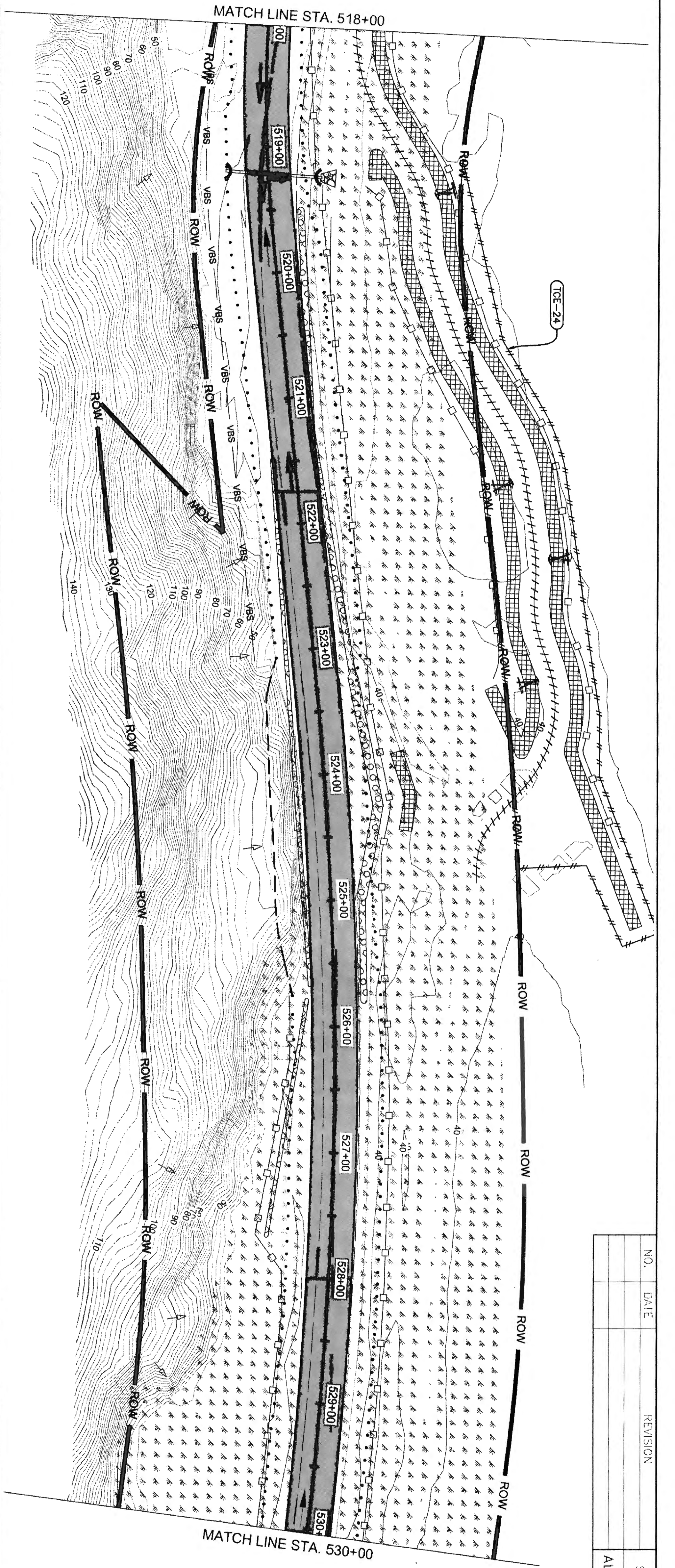
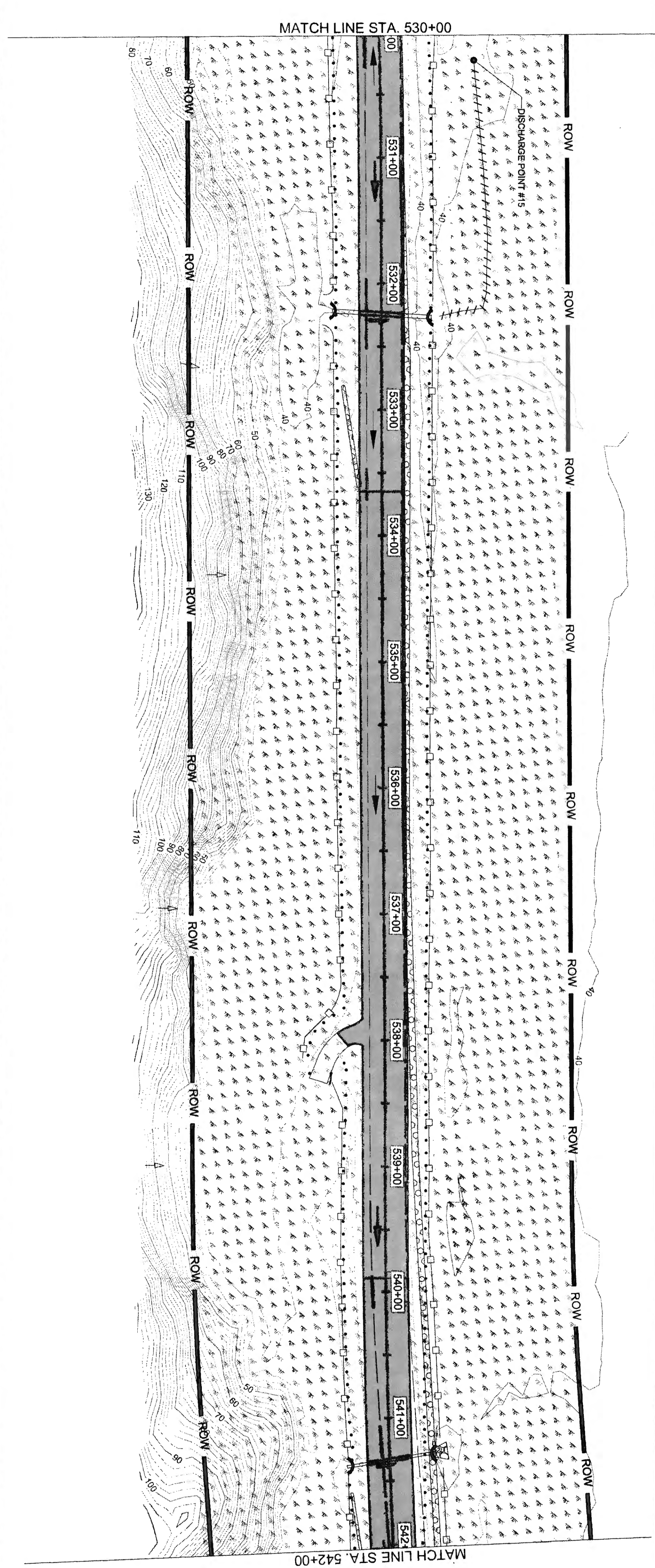
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 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 6/23/2017 12:54 LAYOUT T14  
 PHONE (907) 780-3533  
 DESIGNED N. HOBBS CHECKED S. NOBLE DRAFTED S. TYLER  
 CERTIFICATE OF AUTH #1 AECL848

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T14	162



TW 6-25-20



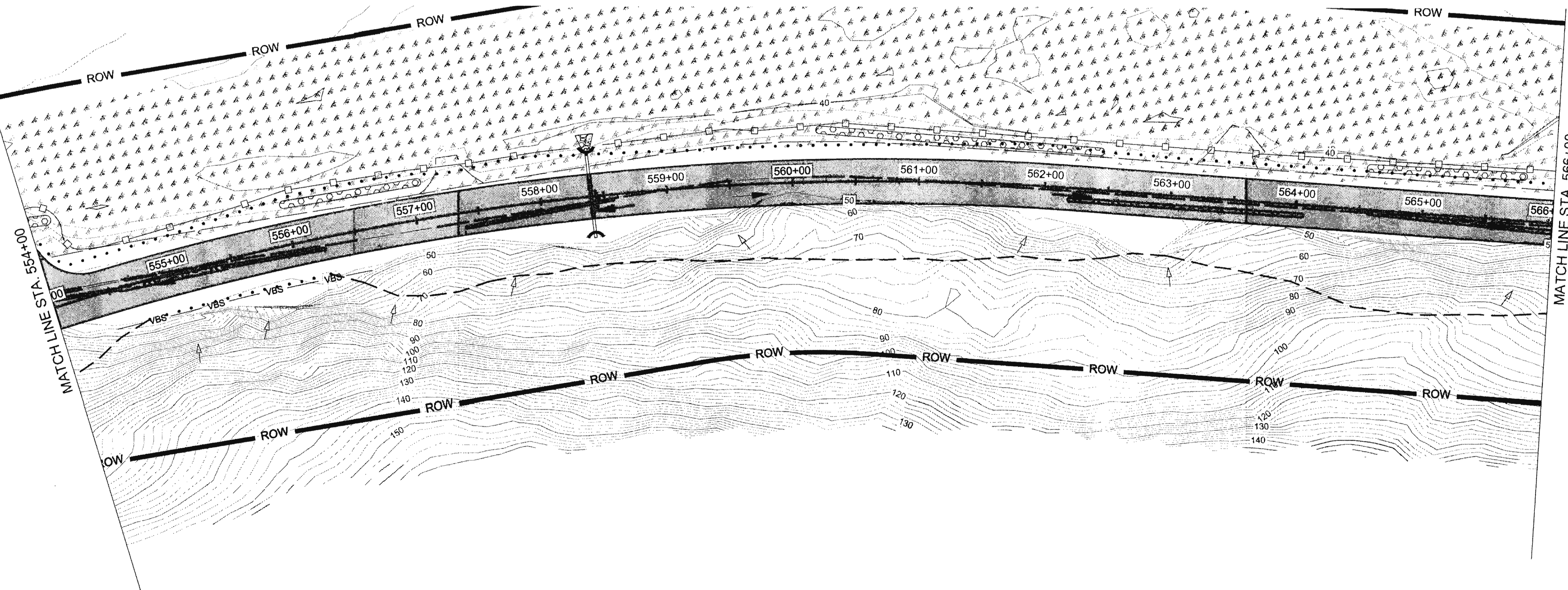
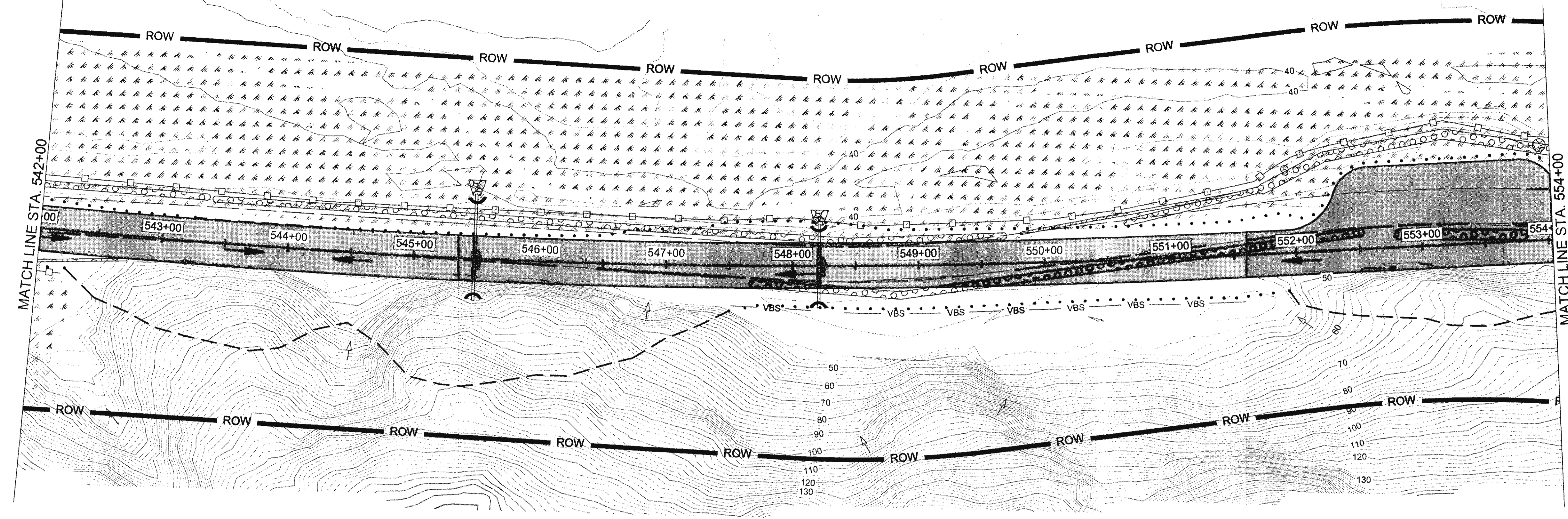


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T15	162

7-6-25-20

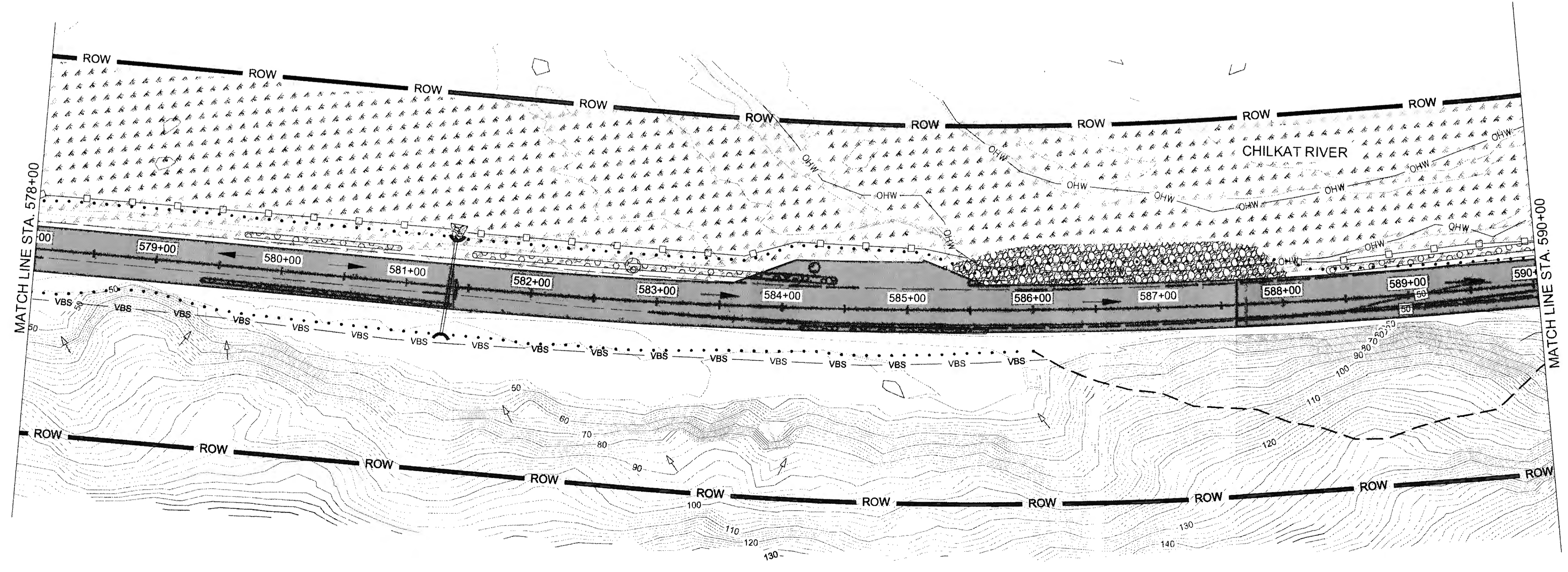
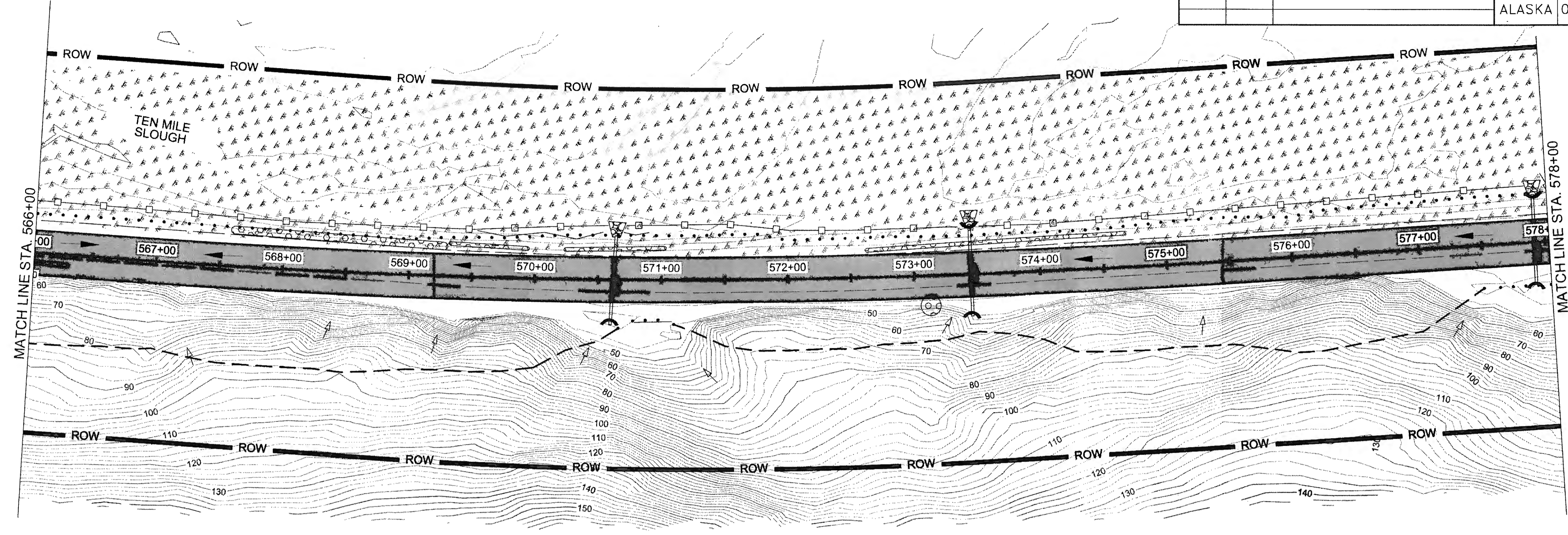
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CERTIFICATE OF AUTH # : AECL848  
 DATE: 6/23/2017 12:54 LAYOUT: T16  
 DESIGNED: N. HOBBS  
 CHECKED: S. NOBLE  
 DRAFTED: S. TYLER

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T16	162



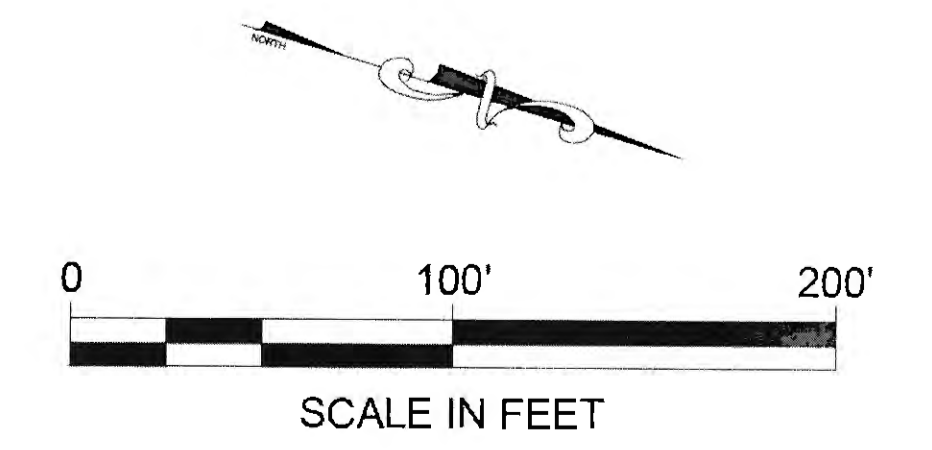
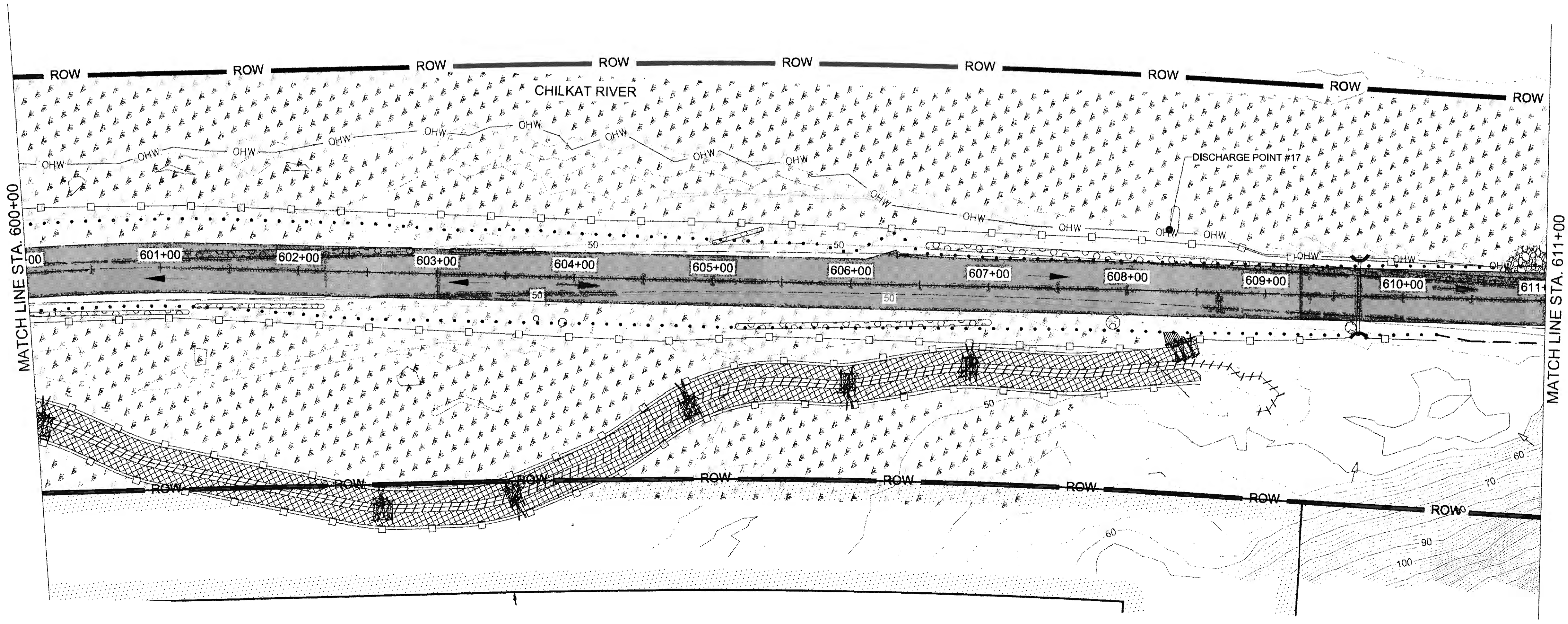
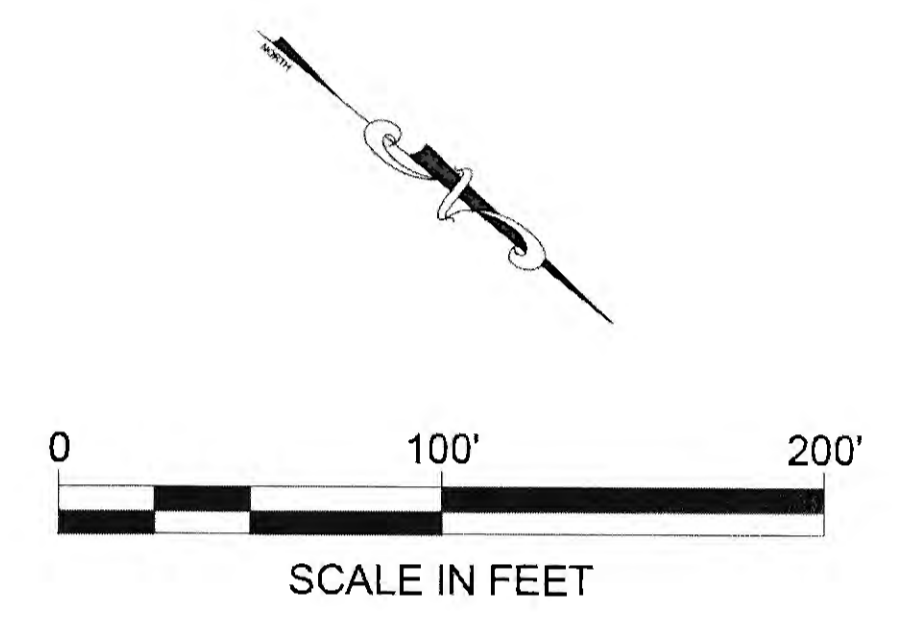
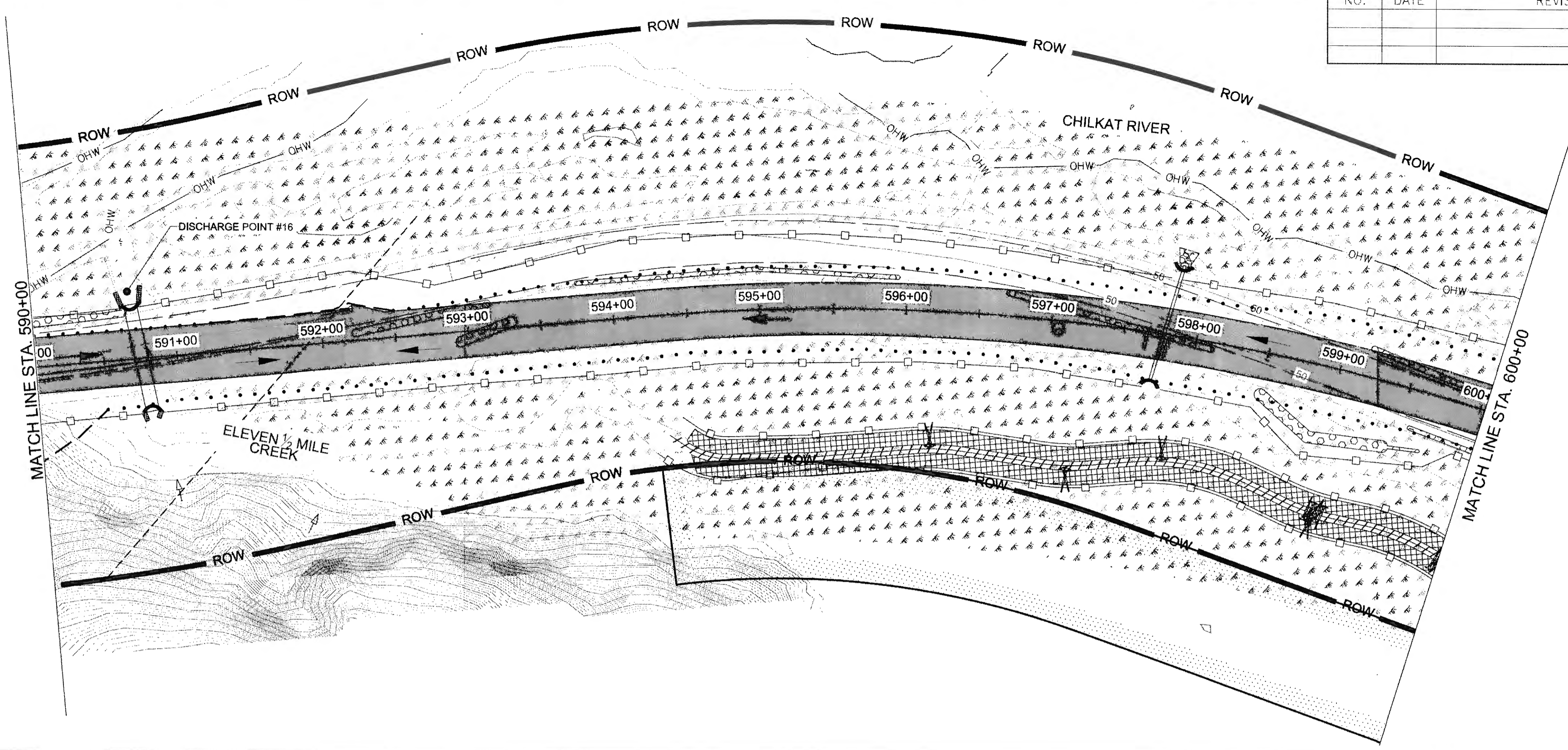
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 ADDRESS: 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 PHONE: (907) 780-3533  
 CHECKED: N. HOBBS  
 DRAFTED: S. TYLER  
 DATE: 6/23/2017 12:54  
 LAYOUT: T17

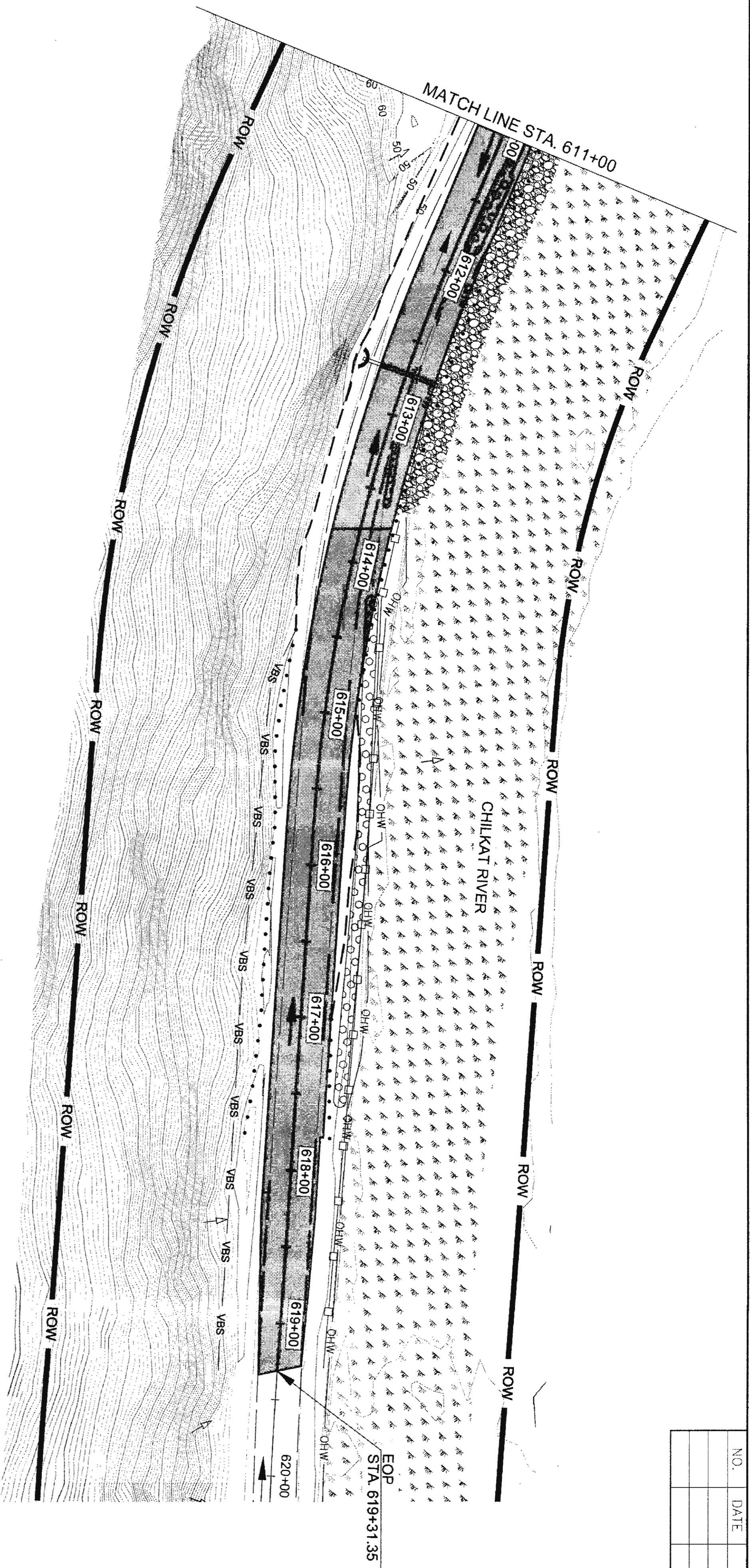
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T17	162



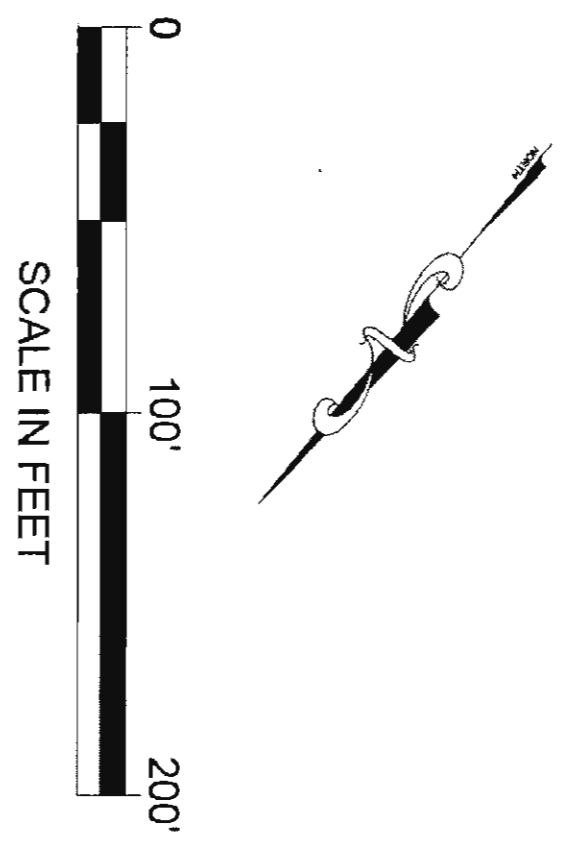
CERTIFICATE OF AUTH # : AEC1848  
 DRAFTED S. TYLER  
 CHECKED S. NOBLE  
 DESIGNED N. HOBBS  
 PHONE (907) 780-3533  
 ADDRESS 5368 COMMERCIAL BLVD., JUNEAU, AK 99801  
 DATE 6/23/2017 12:54 LAYOUT T18  
 FILE 0:\24\61850-01\65CAD\MP 3-12 PSEVT SHEETS\T1-120.dwg  
 FIRM DOWL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHWY00126	2017	T18	162





NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0965(035)/SFHW00126	2017	T19	162



T19 6-25-20