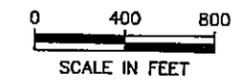


Revised As Built Index

Sheet #	Description
A2	Control Survey
D1	Summary
F1-F5	Plan and Profile
HY-1	Pipe Arch

E.O.P.
STA. 146+00.00



EXISTING CONTROL MONUMENTS

POINT	LOCAL NORTH	LOCAL EAST	ORTHO ELEV (MLLW)	DESC	LAT	LONG	AKSPC NORTH	AKSPC EAST
7	10848.4511	19365.7392	43.44	CL_MON_PT_234+94.89	55.21267017	-131.42357656	1292614.6738	3093071.2126
8	10000.0000	20000.0000	45.60	CL_MON_PI_244+01.44	55.21203130	-131.42247882	1291984.8392	3093723.8335
9	9715.6171	20150.7960	33.77	CL_MON_PI-9	55.21175107	-131.42221776	1291704.9499	3093882.7475
10	7283.6734	21196.6541	92.88	CL_MON_RUNWAY_BC_195+00	55.20535447	-131.42040721	1289304.4108	3094998.1545
11	12644.6476	15951.5399	85.62	CL_MON_RUNWAY_BC_120+00	55.21463580	-131.43348564	1294511.4334	3089601.2519
12	8056.8776	21310.7258	80.76	NGS_DMA_3_BC	55.21011658	-131.42021029	1290080.5015	3095089.8823
13	10114.4148	19084.8772	45.64	CL_MON_BC2.5_60+00_TAXI/APRON	55.21214369	-131.42406206	1292072.8197	3092805.8879
14	10194.3615	19524.1936	45.29	BC2_L3/L4_BLK400	55.21222268	-131.42330210	1292165.3865	3093242.6722
30	8633.1419	21272.3640	31.67	ALCAP1.5_C4	55.21068454	-131.42027695	1290655.3611	3095034.9318
31	8178.1539	21549.6239	25.75	ALCAP1.5_C1	55.21023618	-131.41579712	1290208.6002	3095325.1612
32	8058.8320	21353.7260	80.43	ALCAP1.5_C2	55.21011852	-131.42013592	1290083.6942	3095132.8039
33	10723.9057	18783.9857	27.29	BC2/CONC KIA-33	55.21274428	-131.42458309	1292673.3224	3092487.5863
37	12922.4417	15939.1351	70.73	ALCAP2*/REBAR KIA-37	55.21490958	-131.43350742	1294788.7258	3089580.8472
39	10866.3195	17056.7103	134.27	ALCAP2*/REBAR KIA-39	55.21288375	-131.43155425	1292766.1684	3090767.0972
40	10362.4983	17276.0337	157.17	ALCAP2*/REBAR KIA-40	55.21238730	-131.43119161	1292268.6415	3090990.8327
41	9813.8829	17800.9936	182.35	ALCAP2*/REBAR KIA-41	55.21184687	-131.43028290	1291735.4407	3091531.3320
42	9248.4861	18216.1519	177.69	ALCAP2*/REBAR KIA-42	55.21128982	-131.42556420	1291182.3026	3091962.5703
43	8926.4661	18720.6148	175.30	ALCAP2*/REBAR KIA-43	55.21097268	-131.42469126	1290874.9888	3092476.0525
44	7899.0239	19487.9758	198.81	ALCAP2*/REBAR KIA-44	55.20596036	-131.42336309	1289870.1959	3093272.6275
45	7682.2779	19692.0797	191.80	ALCAP2*/REBAR KIA-45	55.20574682	-131.42300990	1289659.4449	3093482.8724
46	7419.9015	20140.8829	168.20	ALCAP2*/REBAR KIA-46	55.20548839	-131.42223343	1289410.1396	3093939.0048
47	7175.7209	20509.7835	149.40	ALCAP2*/REBAR KIA-47	55.20524785	-131.42159520	1289176.7178	3094314.7515
48	6865.7691	21239.3762	88.42	PK KIA-48	55.20494259	-131.42033310	1288887.9545	3095052.8988
49	7484.4637	21832.7280	36.01	ALCAP2*/REBAR KIA-49	55.20555255	-131.41530710	1289523.4293	3095628.1113
50	7684.3616	21877.4900	30.29	ALCAP2*/REBAR KIA-50	55.20574958	-131.41522977	1289724.5135	3095667.0889
51	8679.9347	21289.8744	28.12	ALCAP2*/REBAR KIA-51	55.21073066	-131.42024668	1290702.6344	3095051.0845
1000	12873.0284	15914.3832	82.95	NGS_BC_KTN-A_RTK	55.21486087	-131.43355019	1294738.6248	3089557.5322
1001	11043.9444	17126.4516	99.37	NGS_BC_KTN-C_RTK	55.21305885	-131.43145107	1292945.4230	3090821.6882
1002	9686.6378	19003.9941	93.12	NGS_BC_KTN-ARP2_RTK	55.21172204	-131.42420165	1291642.9335	3092737.3758
1003	7160.9532	21212.6256	92.18	NGS_BC_KTN-B_RTK	55.20523352	-131.42037952	1289182.2145	3095017.6546

HORIZONTAL CONTROL

Horizontal Control for this project came from a local grid set up in 1991 for the Seaplane Float project. In that project, the record bearing of N44°21'58"W was held between #8 PI mon at sta 244+01.44 and #7 PT mon at sta 234+94.89. PI Mon #8 is a 2" brass cap in well located at the intersection of the service road and the apron entrance road adjacent to and south of the third large hangar in line. PT Mon #7 is a 3" aluminum monument in well located in the asphalt in front of the terminal building.

Subsequently, this project has been controlled by GPS, and transformation parameters developed to relate the project to NAD83(92) Alaska State Plane zone 1. Currently, the basis of bearing accepted for Ketchikan Airport is the bearing of N44°22'27"W from the threshold runway centerline monument #10 at sta 195+00 to the threshold runway centerline monument #11 at sta 120+00.

The Ketchikan Airport Grid System is a local ground coordinate system based at runway centerline monument #10 at RW station 195+00 at the threshold of runway 29. It relates to AKSPC zone 1 NAD83(92) through the following parameters:
 Zone = NAD83 AKSPC ZONE 1
 Grid Scale = 0.999896667829
 Convergence = 1°39'06.23"
 Translation about at runway centerline monument #10 as follows:
 AKSPC Northing = 1289304.4108 FT US
 AKSPC Easting = 3094998.1545 FT US
 Local Northing = 7283.6734 FT US
 Local Easting = 21196.6541 FT US

Coordinates for this project established with SKI PRO static GPS processing and Starnet least squares adjustment.

Project Specific Horizontal Control

10 : 3" brass cap in well located at threshold of runway 29.
 KTN Air-Grid N 7283.6734 FT US, E 21196.6541 FT US
 AKSPC N 1289304.4108 FT US, E 3094998.1545 FT US

11 : 3" brass cap in well located at threshold of runway 11.
 KTN Air-Grid N 12644.6476 FT US, E 15951.5399 FT US
 AKSPC N 1294511.4334 FT US, E 3089601.2519 FT US

VERTICAL CONTROL

The basis of vertical control is the point number 7, PT mon at sta 234+94.89. The monument has an accepted elevation of 43.43' above MLLW. This elevation was established from a series of tidal observations on 10/29/86 and 10/30/86. The vertical control was checked with real time kinematic gps on 5/18/00. The basis of the vertical datum check was Ketchikan tidal benchmarks "BM No-34 1944" and "BM No-37 1956". The results of the vertical control check were height observations of 49.32' (published 49.32') at "BM No-34" and 34.94' (published 35.09') at "BM No-37". The published elevations to the tidal benchmarks are based on 1960 - 1978 tidal observations.

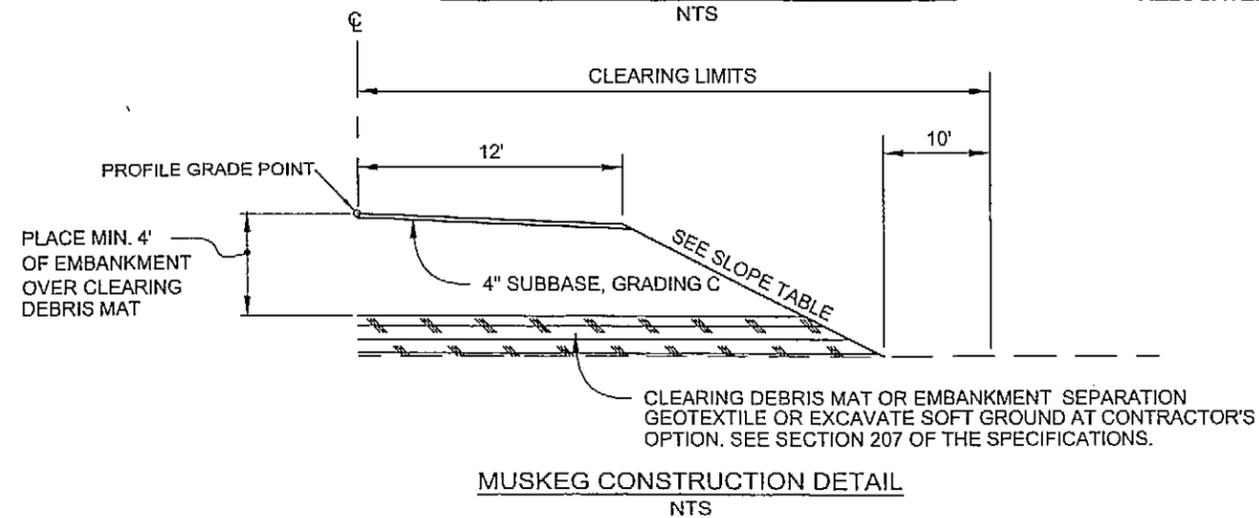
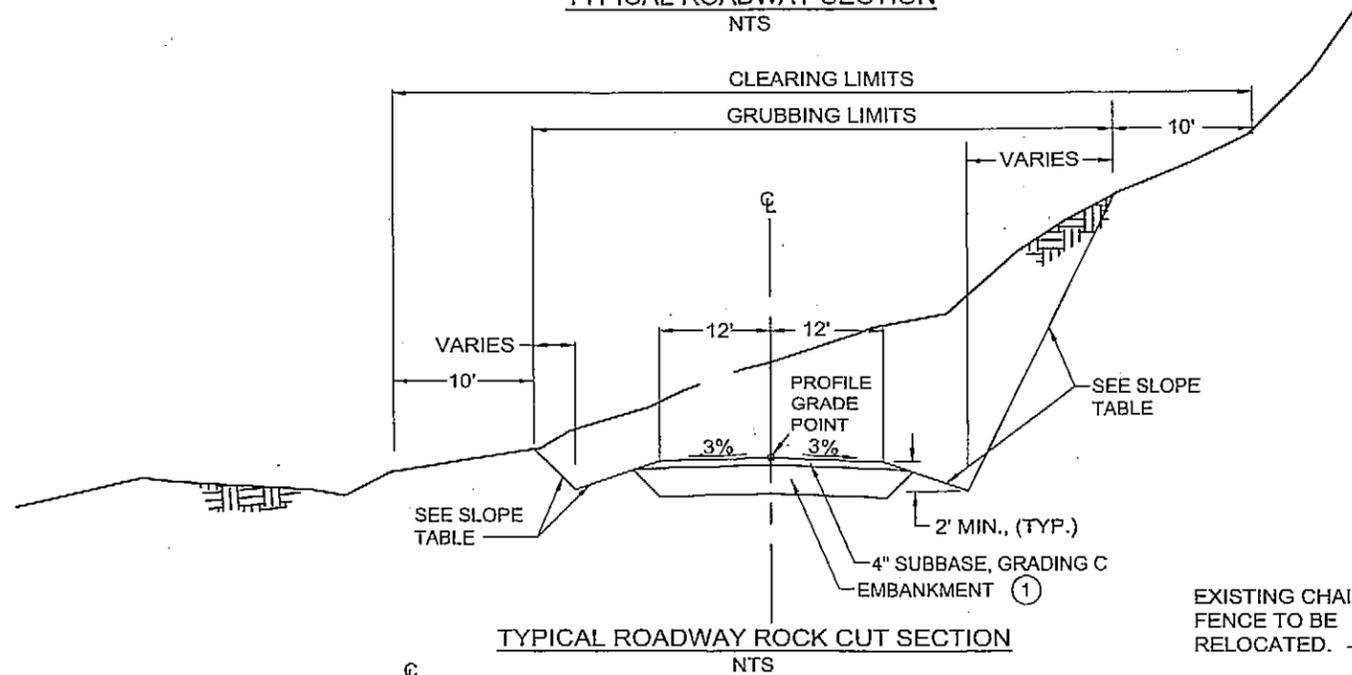
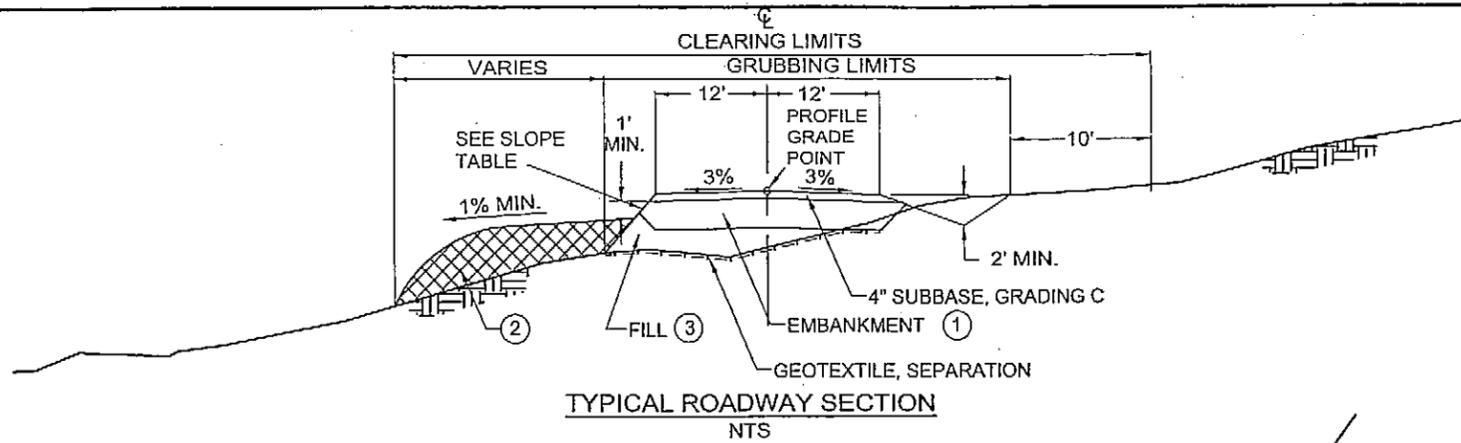
The Project Specific Basis of Vertical Control is threshold runway centerline monument #10 at sta 195+00 having an accepted elevation of 92.88 feet above MLLW.

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng *[Signature]* Date 7-17-07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: G. Lybrand		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION	
		KETCHIKAN GRAVINA ISLAND ACCESS PROJECT #68094	
SURVEY CONTROL PLAN			
DESIGNED BY: T. REED		PROJECT DESIGNATION	
DRAWN BY: T.R./R.S.		YEAR	
PATH: \\(GETVAR,DWGPREFFIX)\(GETVAR,DWGNAME)		SHEET NO.	
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REVISIONS		HP-0003(103)/68094	
NO.	DATE	DESCRIPTION	2005
			A2
			16

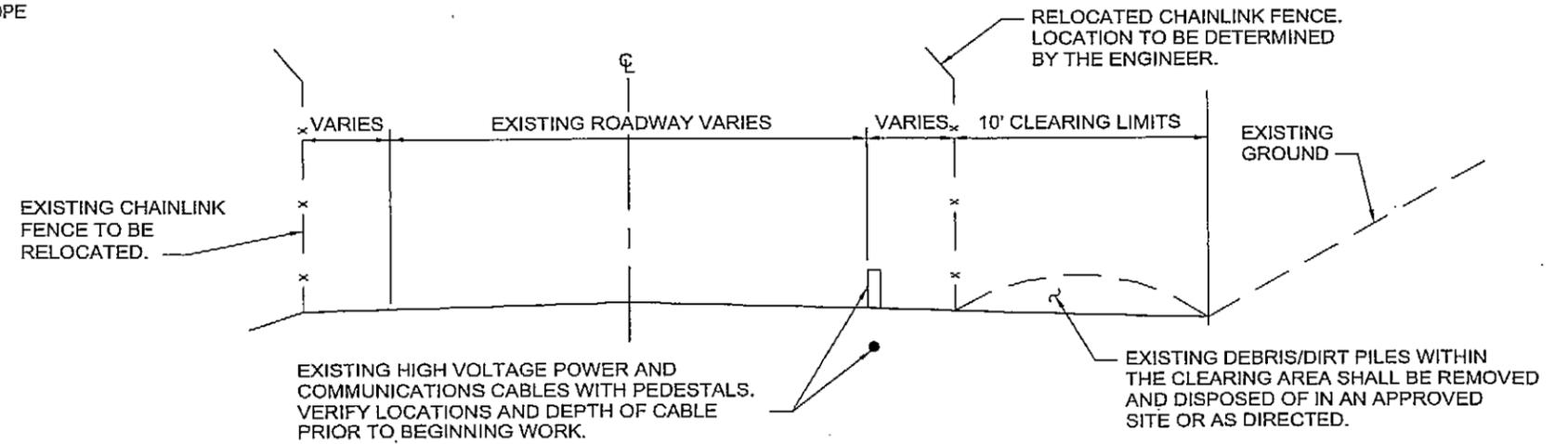


GENERAL NOTES:

1. GROUND DISTURBED BY NEW CONSTRUCTION SHALL BE SEEDED, OR MATTED AND SEEDED AS DETERMINED BY THE ENGINEER.
2. THE VERTICAL ALIGNMENTS SHOWN ON THESE PLANS ARE FOR GUIDANCE ONLY. FIELD VARIANCES WILL BE ALLOWED PROVIDED THEY FOLLOW THE CONSTRUCTION STANDARDS AND DO NOT INCREASE ENVIRONMENTAL IMPACTS. ALL VARIANCES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
3. SUPERELEVATION SHALL BE ROTATED ABOUT THE ROADWAY CENTERLINE. THE RATE OF SUPERELEVATION AND OTHER SUPERELEVATION DETAILS ARE SHOWN ON THE PLAN AND PROFILE SHEETS.

CONSTRUCTION STANDARDS:

MAXIMUM GRADE	9.0 PERCENT
MINIMUM GRADE	0.5 PERCENT
MINIMUM "K" VALUE	20



Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. *[Signature]* Date 7-17-05

LABELING INDEX	
①	THICKNESS OF EMBANKMENT VARIES. SEE TABLE AND SECTION 207 OF THE SPECIFICATIONS.
②	WASTE BERM-SEE SECTION 207 OF THE SPECIAL PROVISIONS.
③	FILL MATERIAL SHALL BE SELECT MATERIAL, TYPE C

MINIMUM EMBANKMENT THICKNESS	
FOUNDATION MATERIAL	DEPTH (INCHES)
BEDROCK	8
FIRM SUBGRADE MATERIAL	12
LOOSE SUBGRADE MATERIAL	24
SOFT GROUND	48

THICKNESS MAY BE ADJUSTED BY THE ENGINEER

SLOPE TABLE		
MATERIAL	CUT	FILL
GRANULAR SOILS	1.5:1	1.5:1
SOFT GROUND	0.5:1	N/A
ROCK	0.25:1	1.5:1
SILT	1.5:1	N/A

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. COLLISON

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
LEWIS REEF ROAD PROJECT #68094

DESIGNED BY: C. HAKARI
DRAWN BY: D. STEVENS

PATH: O:\K1n\68094\Planset\B-Typsects.dwg
Thu, 24/Mar/05 09:13AM crhakari

TYPICAL SECTIONS & NOTES

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HP-0003(103)/68094	2005	B1	16

ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
207 (1)	24 FOOT WIDE COMPOSITE ROAD CONSTRUCTION	STATION	95
603 (9-96)	96 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	254
603 (17-24)	24 INCH PIPE	LINEAR FOOT	396
603 (17-36)	36 INCH PIPE	LINEAR FOOT	316
607 (7)	REMOVE AND RECONSTRUCT FENCE	LINEAR FOOT	1780
607 (8)	REMOVE AND RECONSTRUCT GATE	EACH	1
611 (1)	RIPRAP, CLASS I	CUBIC YARD	20
615 (1)	STANDARD SIGNS	SQUARE FOOT	57.5
618 (1)	SEEDING	ACRE	6
619 (2)	MATTING	SQUARE YARD	1100
633 (1)	SILT FENCE	LINEAR FOOT	4000
640 (1)	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQ'D
640 (4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQ'D
641 (1)	EROSION & POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQ'D
641 (2)	TEMPORARY EROSION & POLLUTION CONTROL	CONTINGENT SUM	ALL REQ'D
641 (5)	ROCK CHECK DAMS	EACH	27
641 (6)	HAND SEEDING	MSF	25
642 (2)	THREE PERSON SURVEY PARTY	HOURLY	20
642 (3)	AS-BUILT DRAWINGS	LUMP SUM	ALL REQ'D
644 (6)	VEHICLE	LUMP SUM	ALL REQ'D
671 (1)	AIRPORT SAFETY PLAN	LUMP SUM	ALL REQ'D
109C1	INTEREST PAYMENT C.O.#8	L.S.	1730
203(19)	EXCAVATION FOR SIGHT DISTANCE C.O.#4	L.S.	23,400
204(2)	EXISTING CONDUIT BURIAL C.O.#2	L.S.	820

96
 84.25
 500.7
 339.1
 1642
 20.44
 102
 0
 2631
 10
 13.43
 32.86

504(3)	TEMP 60'x18' HAMILTON BRIDGE C.O.#3	L.S.	25,200
602(4)	PROCURE 14' ARCH PIPE C.O.#5	L.S.	37,678
602(3)	INSTALL 14' ARCH PIPE C.O.#5	L.S.	209,009
603(9-96)	8 FOOT PIPE DESIGN C.O.#6	L.S.	9,000
603(17-12)	12" CPP C.O.#1	L.S.	3941
640(2)	REMOBILIZATION	L.S.	6531

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. Date 7-17-07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. COLLISON 	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION LEWIS REEF ROAD PROJECT #68094 ESTIMATE OF QUANTITIES														
DESIGNED BY: DRAWN BY: PATH: O:\kin\68094\Plansef\C_Summi.dwg Wed, 05/Apr/05 02:14PM crhakari															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REVISIONS</th> <th rowspan="2">PROJECT DESIGNATION</th> <th rowspan="2">YEAR</th> <th rowspan="2">SHEET NO.</th> <th rowspan="2">TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td>HP-0003(103)/68094</td> <td>2005</td> <td>C1</td> <td>16</td> </tr> </tbody> </table>	REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE DESCRIPTION			HP-0003(103)/68094	2005	C1	16	
REVISIONS		PROJECT DESIGNATION					YEAR	SHEET NO.	TOTAL SHEETS						
NO.	DATE DESCRIPTION														
		HP-0003(103)/68094	2005	C1	16										

STANDARD SIGNING SUMMARY

No.	STATION	OFFSET		TYPE	FACING TRAFFIC	LEGEND	SIZE		AREA S.F.	POST SIZE	REMARKS	
		LT.	RT.				WD.	HT.				
1	38+00		X	R2-1	SB	SPEED LIMIT 35	30	36	7.5	2.5		
2	45+64		X	W1-1R	SB	CURVE RIGHT	36	36	9.00	2.5		
3	45+64		X	W13-1	SB	25 MPH	24	24	4.00		MOUNT BELOW 2	
4	51+36	X		W1-1L	NB	CURVE LEFT	36	36	9.00	2.5		
5	51+36	X		W13-1	NB	25 MPH	24	24	4.00		MOUNT BELOW 4	
6	89+00	X		R2-1	NB	SPEED LIMIT 35	30	36	7.5	2.5		
7	143+00	X		R2-1	SB	SPEED LIMIT 35	30	36	7.5	2.5		
8	52+00		X	R1-2	NB	YIELD	36	36	9.0	2.5		
9	57+00		X		NB	ONE LANE BRIDGE 20MPH						
10	58+00	X			SB	ONE LANE BRIDGE 20MPH						
							TOTAL=67.5					

102

CULVERT SUMMARY

PIPE	STATION	SIZE				DITCH BLOCK	COMMENTS
		24"	36"	48"	OTHER		
P-1	52+50	34'					
P-2	57+78			72'			FISH STREAM - BAFFLES TO AID FISH PASSAGE REQUIRED. SKEW ANG. 5° 47' LT. AHD.
P-3	64+50	38'				X	
P-4	74+50	40'					
P-5	77+65	52'					
P-6	85+42			100'	84		FISH STREAM. SKEW ANG. 5° 43' RT. AHD.
P-7	90+80	42'					
P-8	98+10		70'				
P-9	106+17		72'				
P-10	109+59		48'				
P-11	114+11	60'					
P-12	118+28	64'					
P-13	122+25	66'					
P-14	127+00		42'				
P-15	137+00		84'				FISH STREAM
P-16	142+28-141+06			82'			FISH STREAM
TOTALS		396'	316'	254'		1	

TEMPORARY HAMILTON BRIDGE C.O. #3

60'x14' ARCH PIPE C.O. #5

PIPE NOTES:

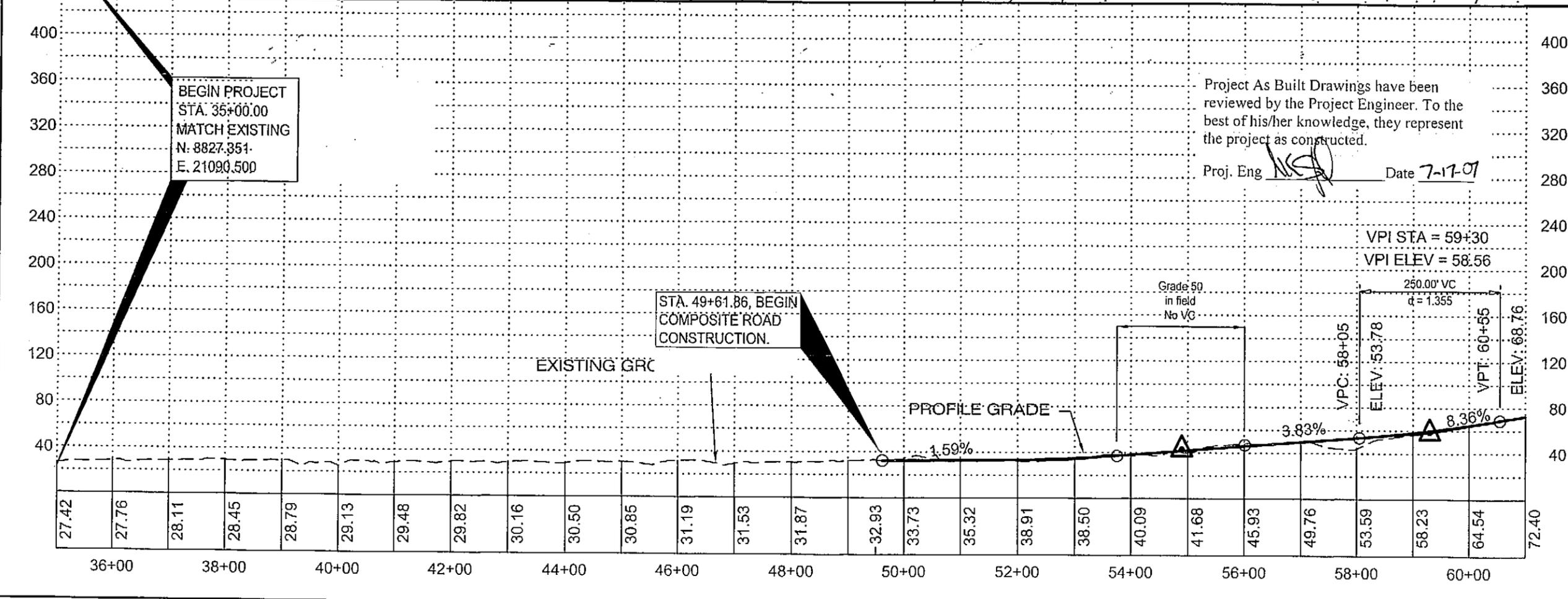
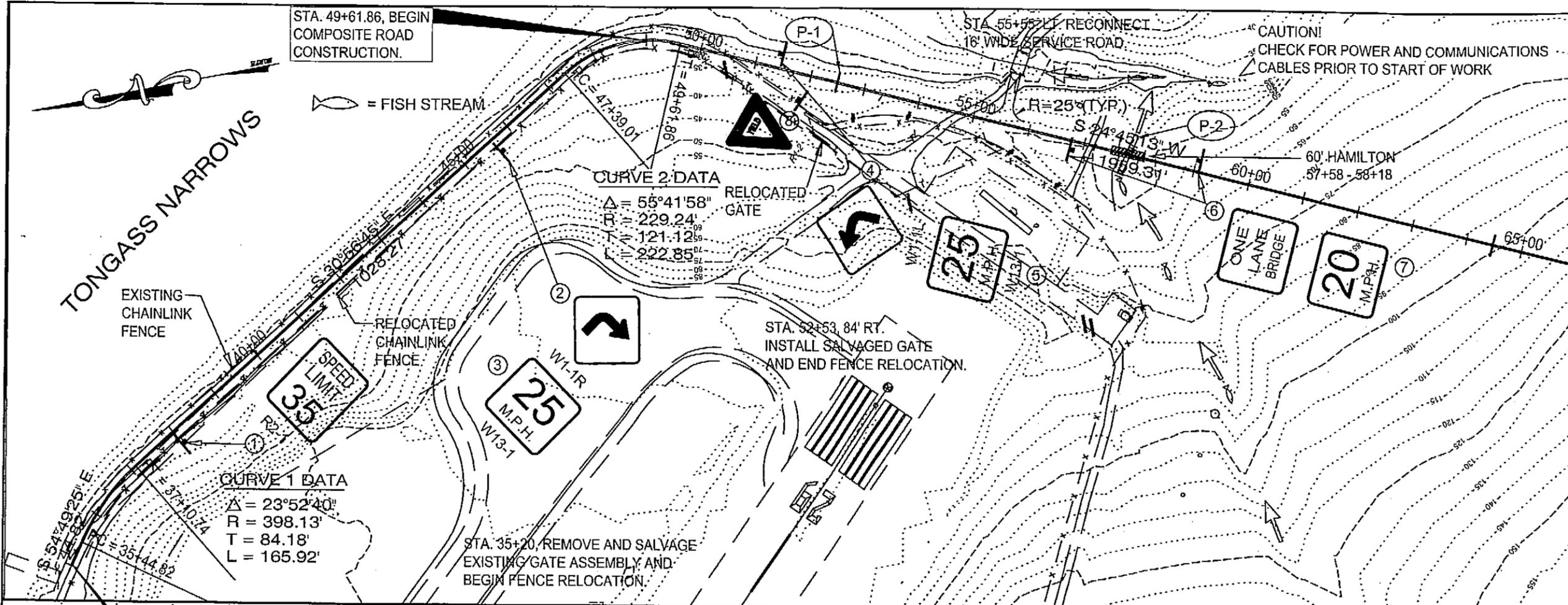
1. PIPE LOCATIONS AS SHOWN ON THE PLAN AND PROFILE SHEETS ARE APPROXIMATE AND MAY BE CHANGED BY THE ENGINEER.
2. PIPE ALIGNMENTS AND GRADIENTS SHALL MATCH THE NATURAL STREAM BEDS OR HAVE A MINIMUM PIPE GRADE OF 2% UNLESS OTHERWISE DIRECTED.
3. ALL CULVERTS 48" AND LARGER REQUIRE A SPECIAL DESIGN BY THE CONTRACTOR. SEE SECTION 603 OF THE SPECIFICATIONS.

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. *[Signature]* Date 7-17-07

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION LEWIS REEF ROAD PROJECT #68094																	
MISC. SUMMARY TABLES																		
CHECKED BY: K. COLLISON DESIGNED BY: DRAWN BY:																		
PATH: Q:\KIn\68094\Plans\C_Summ1.dwg Tue, 18/Jan/05 08:34AM crhokari																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS			NO.	DATE	DESCRIPTION				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">PROJECT DESIGNATION</td> <td style="width: 10%;">YEAR</td> <td style="width: 10%;">SHEET NO.</td> <td style="width: 40%;">TOTAL SHEETS</td> </tr> <tr> <td>HP-0003(103)/68094</td> <td>2005</td> <td>D1</td> <td>16</td> </tr> </table>	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	HP-0003(103)/68094	2005	D1	16
REVISIONS																		
NO.	DATE	DESCRIPTION																
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS															
HP-0003(103)/68094	2005	D1	16															



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
1	8/23/06	Elevation revision

DESIGNED BY: C. Hakari
 DRAWN BY: D. Stevens

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
 KETCHIKAN

LEWIS REEF ROAD
 PLAN AND PROFILE

PROJECT DESIGNATION NUMBER
 HP-0003(103)/68094

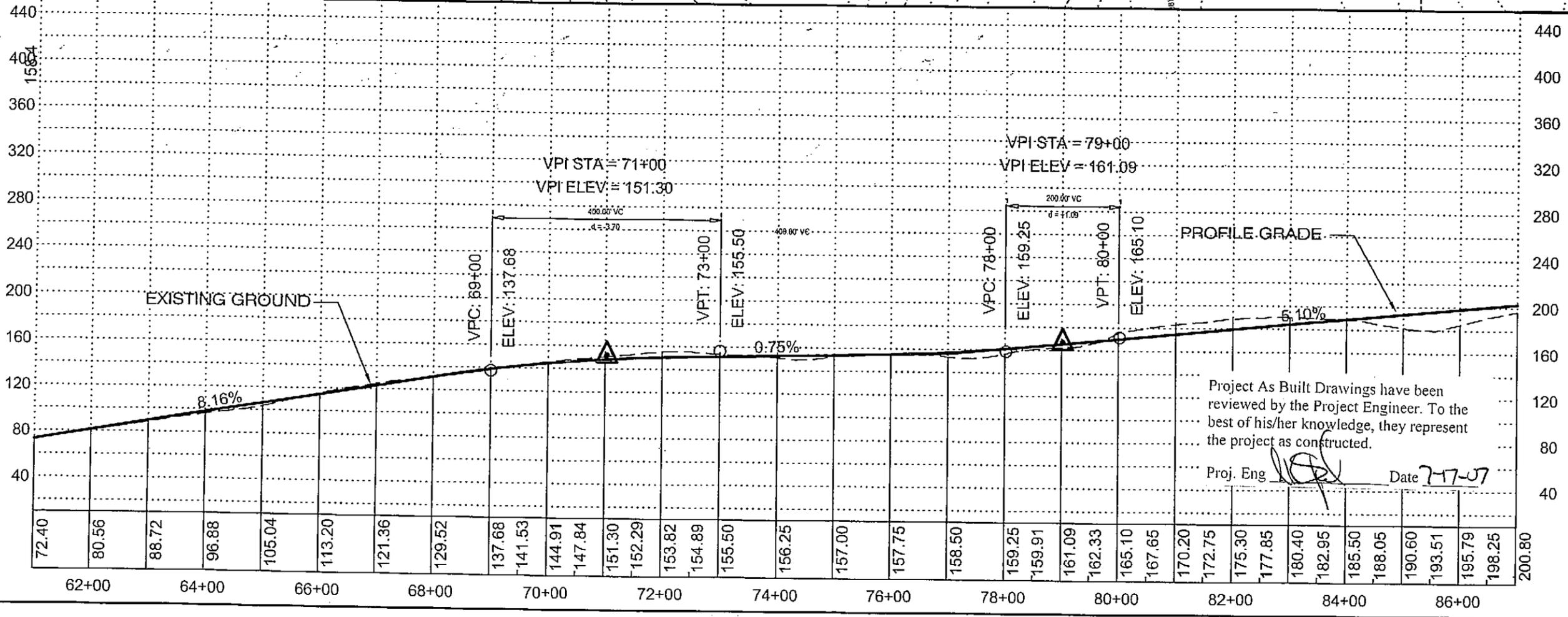
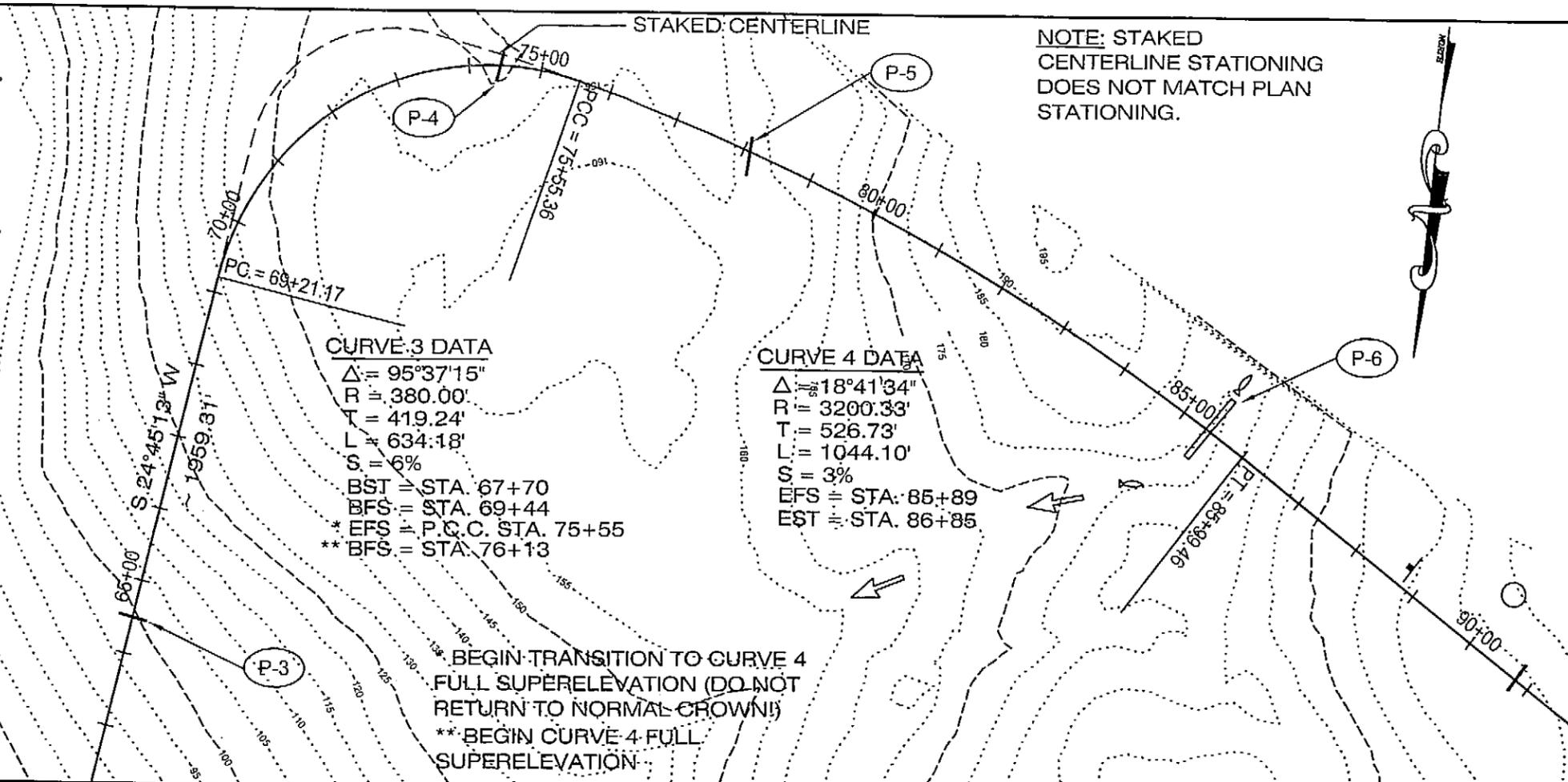
STATE	YEAR
ALASKA	2005

SHEET NUMBER	TOTAL SHEETS
F1	

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. *[Signature]* Date 7-17-07

Super Elevation

	L+	R+
67+82	-0.36	-0.36
68+00	-0.24	-0.4
68+25	-0.08	-0.45
68+50	0.09	-0.5
68+75	0.27	-0.55
69+00	0.44	-0.67
69+25	0.6	-0.72
69+44	0.72	-0.72
75+55	0.72	-0.72
75+75	0.56	-0.56
76+00	0.37	-0.36
76+03	0.36	-0.36
85+89	0.36	-0.36
86+00	0.28	-0.36
86+25	0.1	-0.36
86+50	-0.07	-0.36
86+75	-0.25	-0.36
86+89	-0.36	-0.36



ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	8/23/06	Elevation revision

CHECKED BY:

DESIGNED BY: C. Hakari
DRAWN BY: D. Stevens

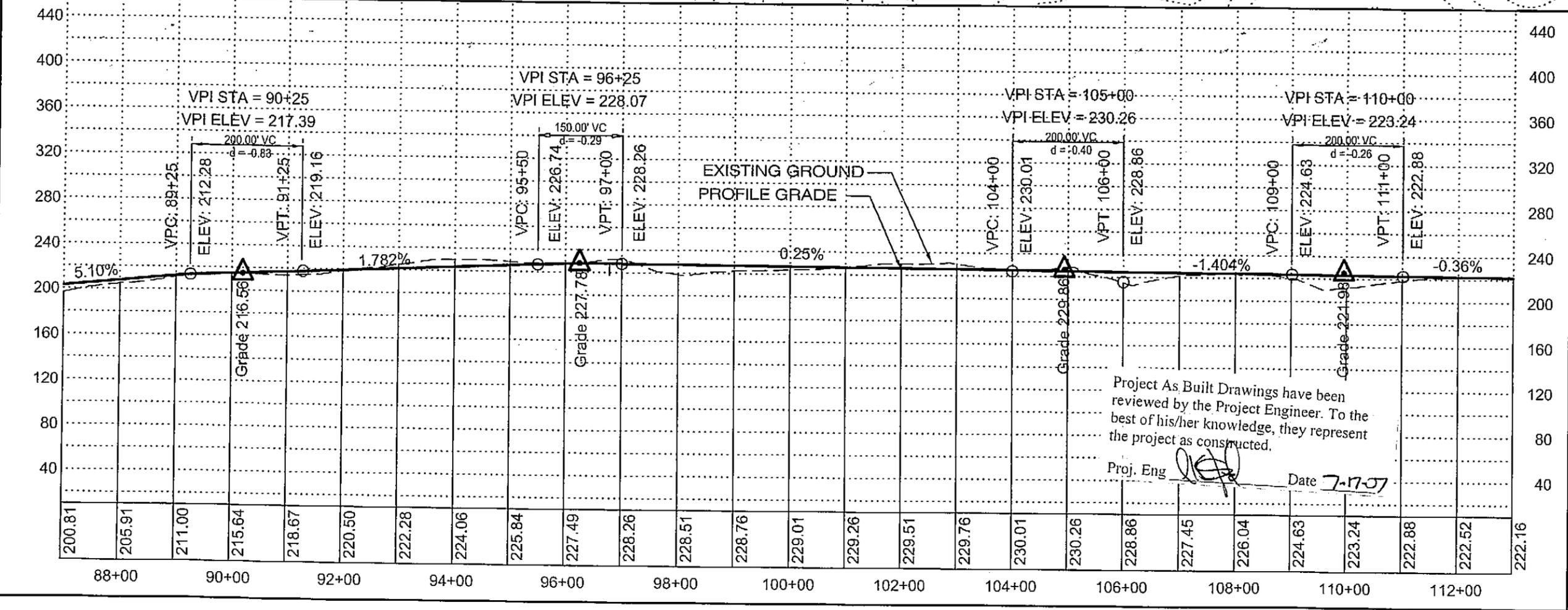
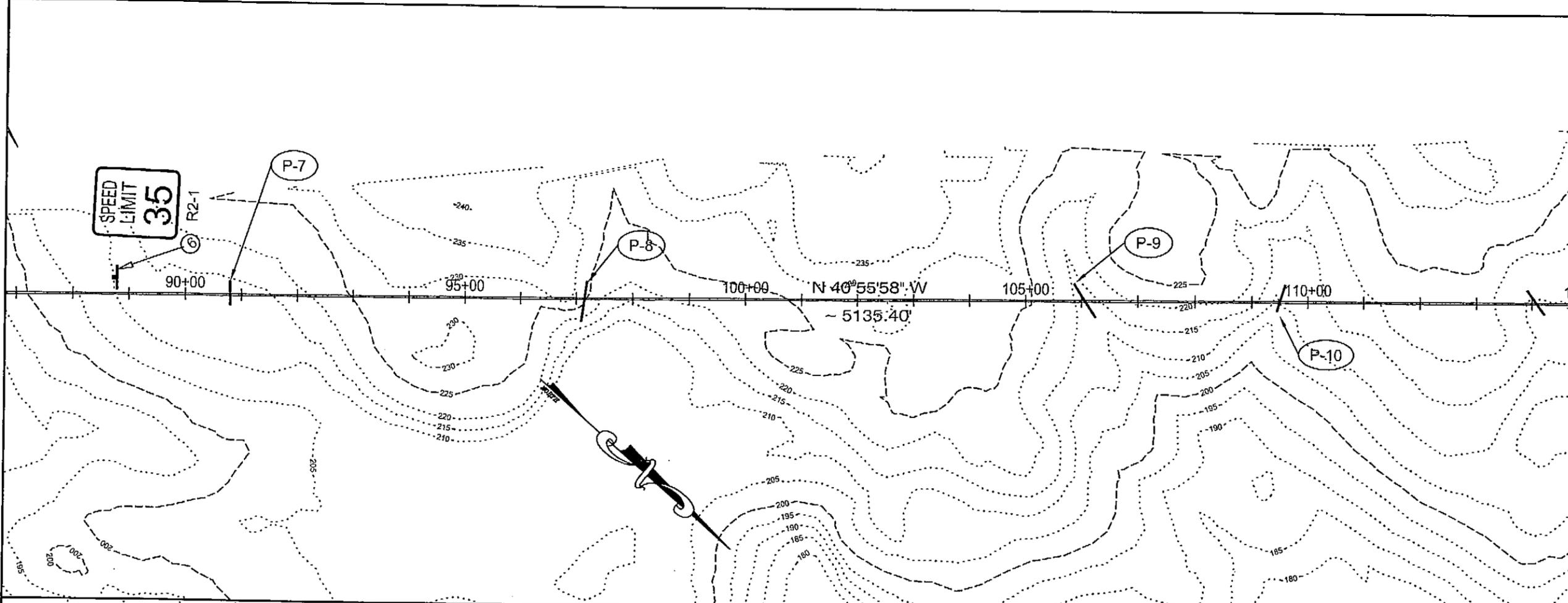
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN

LEWIS REEF ROAD
PLAN AND PROFILE

PROJECT DESIGNATION NUMBER
HP-0003(103)/68094

STATE	YEAR
ALASKA	2005

SHEET NUMBER: F2 TOTAL SHEETS



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
1	8/23/06	Elevation revision

DESIGNED BY: C. Hakari

DRAWN BY: D. Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN

LEWIS REEF ROAD

PLAN AND PROFILE

PROJECT DESIGNATION NUMBER
HP-0003(103)/68094

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F3	

CHECKED BY:

DESIGNED BY: C. Hakari

DRAWN BY: D. Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN

LEWIS REEF ROAD

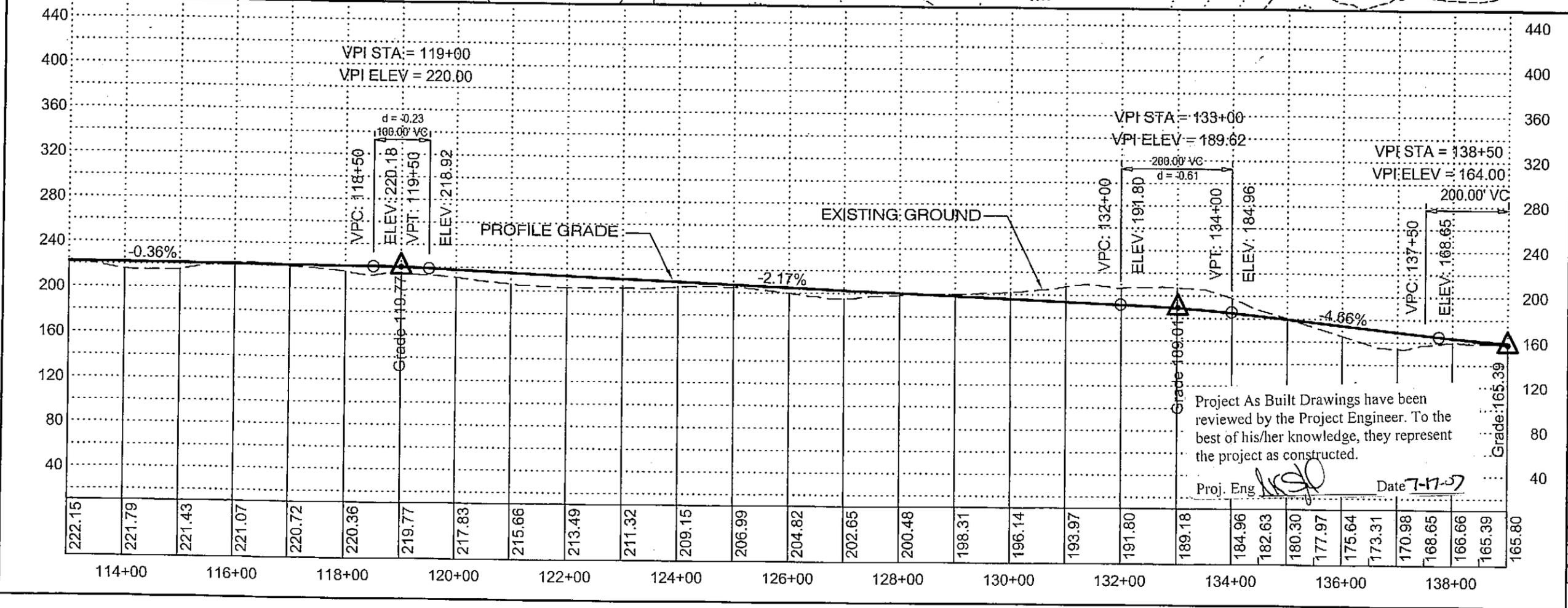
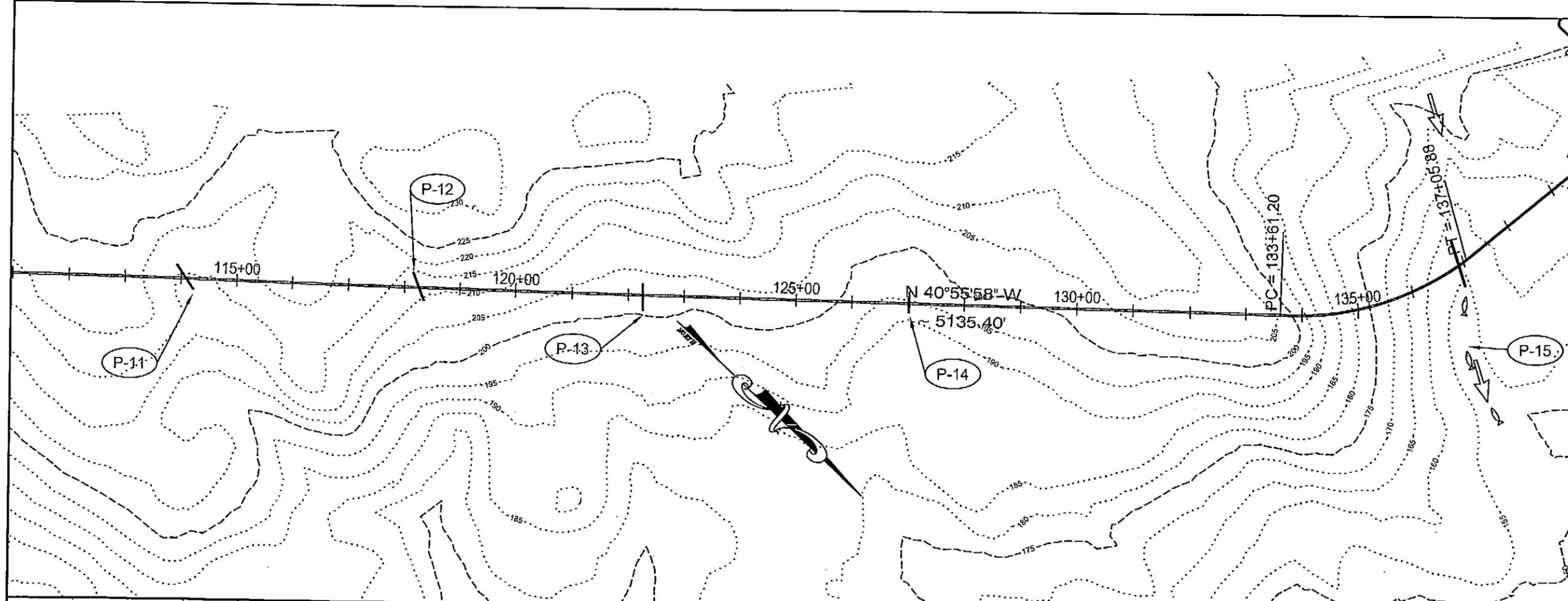
PLAN AND PROFILE

PROJECT DESIGNATION NUMBER
HP-0003(103)/68094

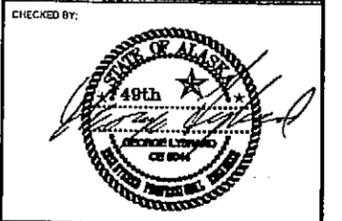
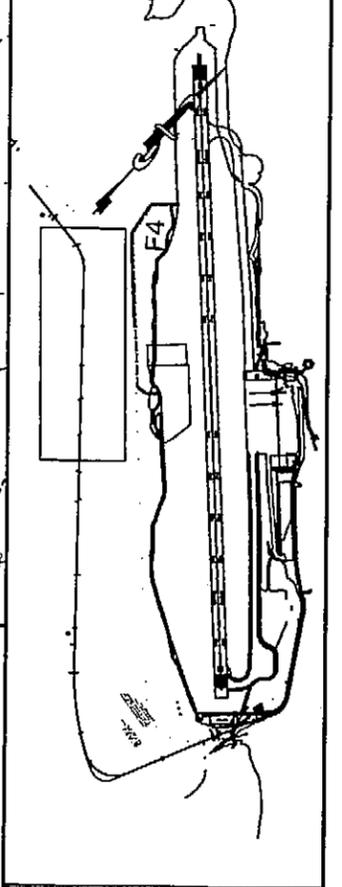
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F3	

Project As-Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. Date **7-17-07**



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
1	8/23/06	Elevation revision

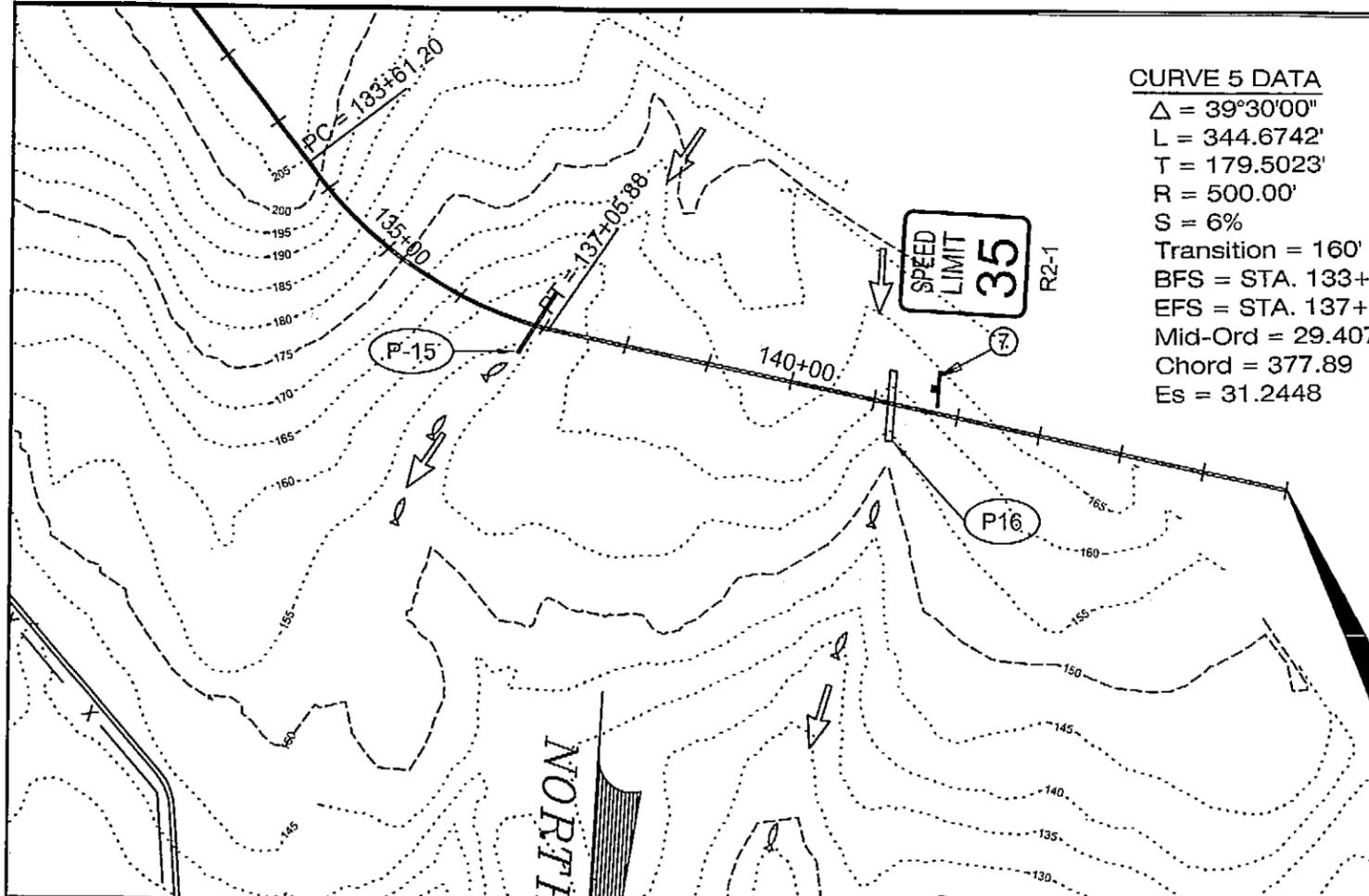


CHECKED BY: *[Signature]*

DESIGNED BY: C. Hakari
DRAWN BY: D. Stevens

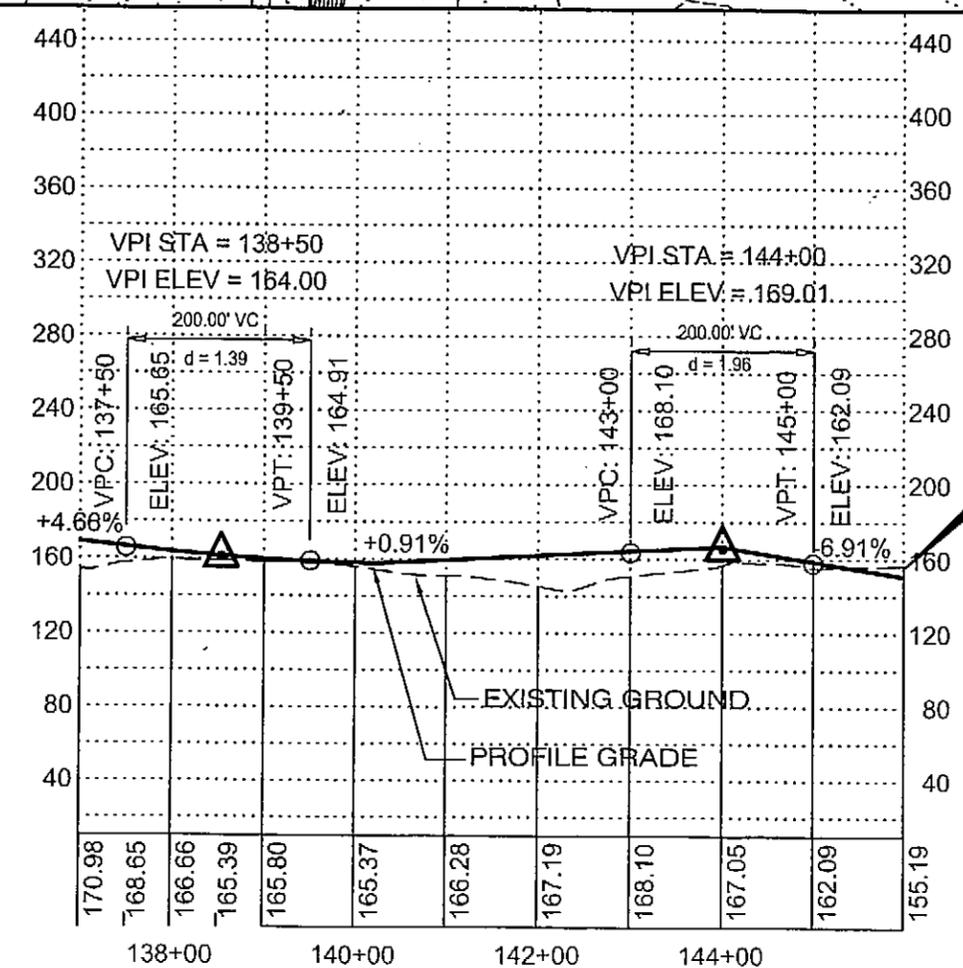
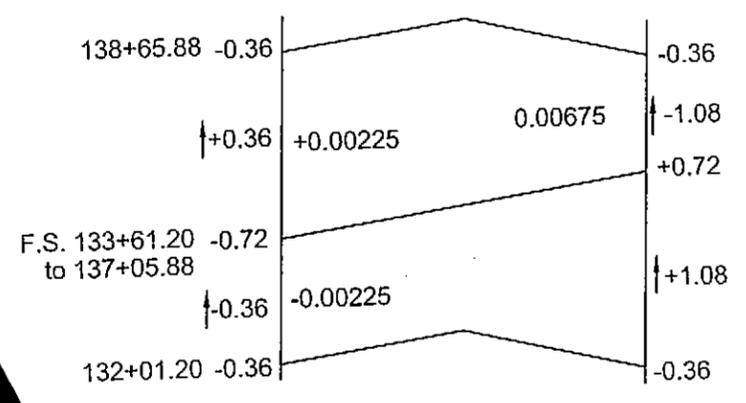
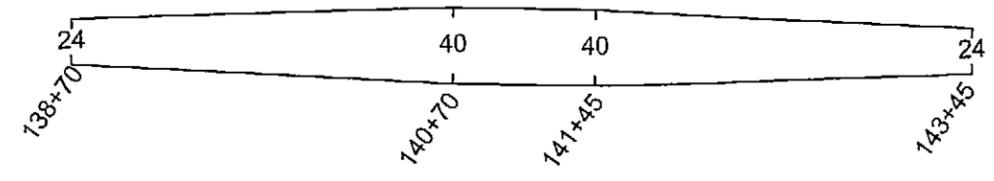
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN
LEWIS REEF ROAD
PLAN AND PROFILE

PROJECT DESIGNATION NUMBER	
HP-0003(103)/68094	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
F4	



CURVE 5 DATA

$\Delta = 39^{\circ}30'00''$
 $L = 344.6742'$
 $T = 179.5023'$
 $R = 500.00'$
 $S = 6\%$
 Transition = 160'
 BFS = STA. 133+61
 EFS = STA. 137+06
 Mid-Ord = 29.4072
 Chord = 377.89
 Es = 31.2448



END PROJECT
 STA. 146+00.00
 MATCH EXISTING GROUND
 N.
 E.

Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.
 Proj. Eng. *[Signature]* Date 7-17-07

Station	Super Elevation	
	Lt	Rt
132+00	-0.36	-0.36
132+01.20	-0.36	-0.36
132+25	-0.41	-0.2
132+50	-0.47	-0.13
132+75	-0.53	0.04
133+00	-0.58	0.21
133+20	-0.63	0.38
133+50	-0.69	0.55
133+61.20	-0.72	0.72
to		
137+05.88	-0.72	0.72
137+25	-0.68	0.59
137+50	-0.62	0.42
137+75	-0.57	0.25
138+00	-0.51	0.08
138+25	-0.46	-0.09
138+50	-0.41	-0.26
138+65.88	-0.36	-0.36

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	8/23/06	Elevation revision

CHECKED BY: *[Signature]*

DESIGNED BY: C. Hakari

DRAWN BY: D. Stevens

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
 KETCHIKAN

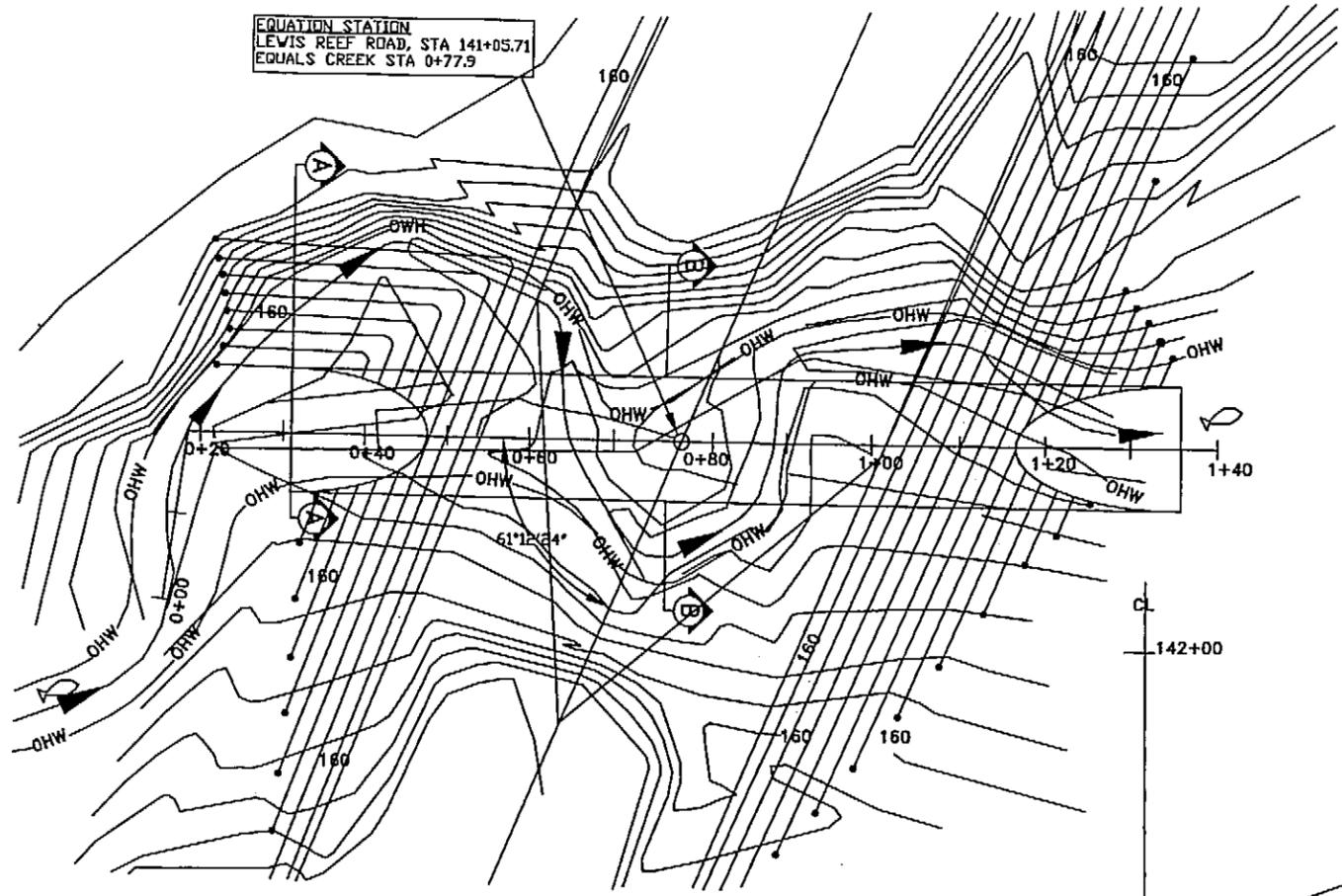
LEWIS REEF ROAD

PLAN AND PROFILE

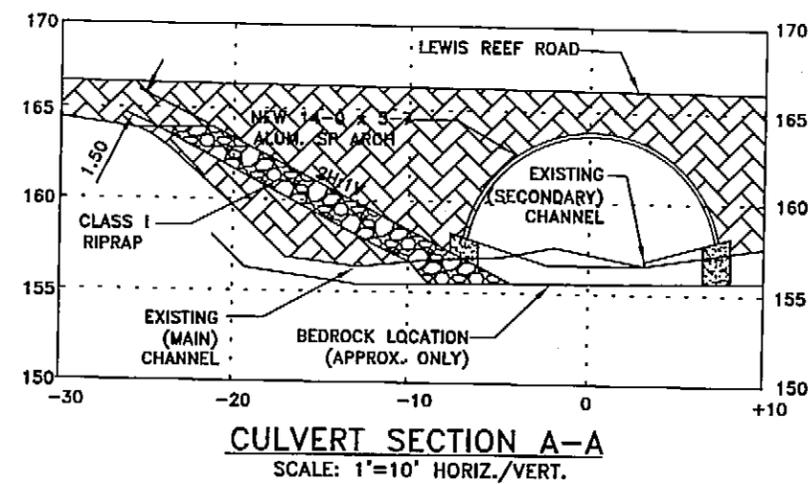
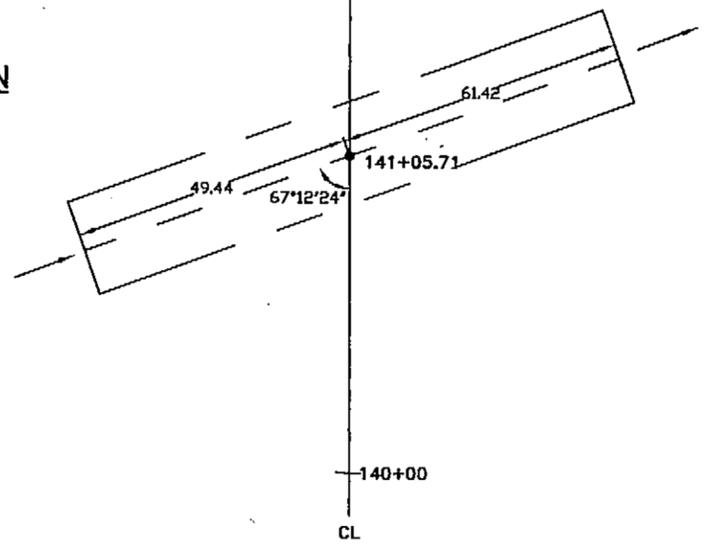
PROJECT DESIGNATION NUMBER
 HP-0003(103)/68094

STATE	YEAR
ALASKA	2005

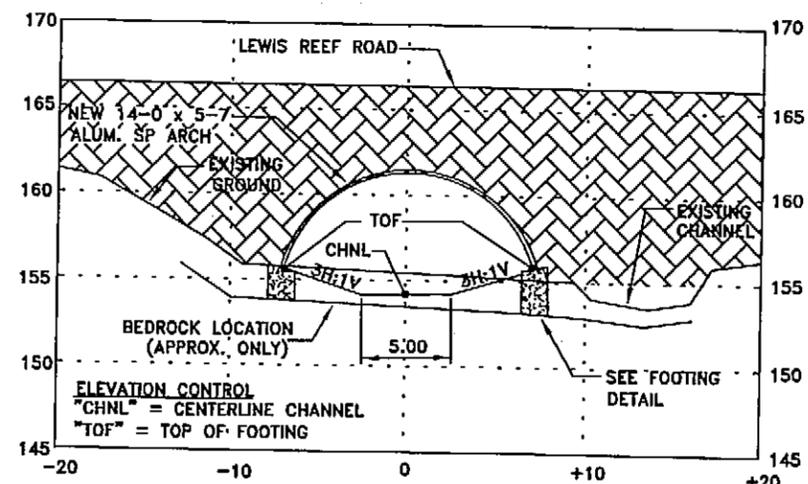
SHEET NUMBER	TOTAL SHEETS
F5	



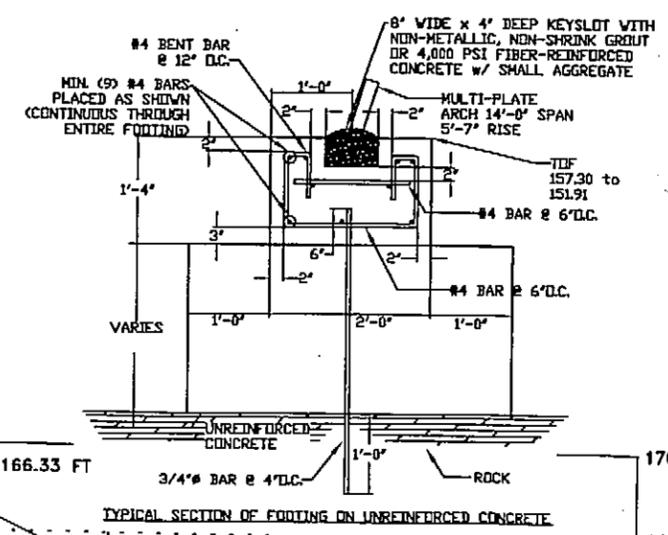
CULVERT INSTALLATION PLAN
SCALE: 1"=20'



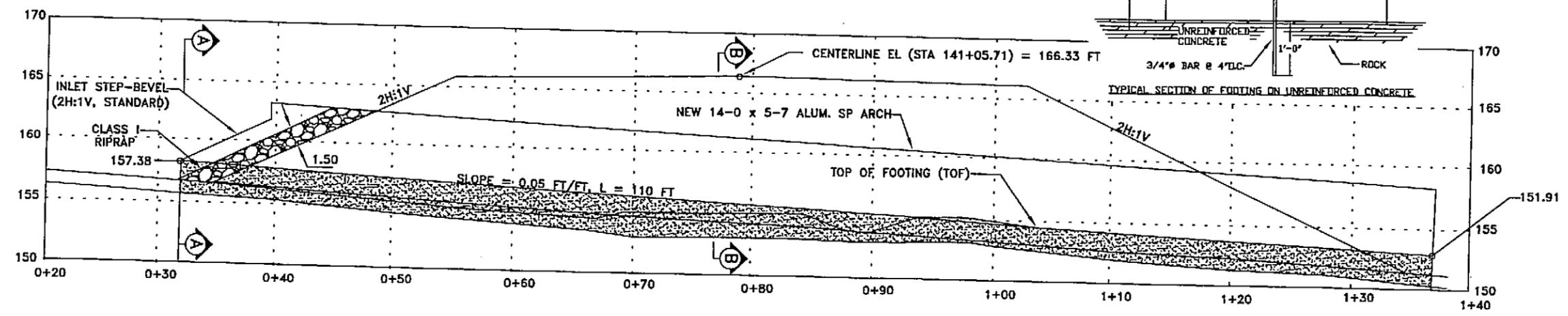
CULVERT SECTION A-A
SCALE: 1"=10' HORIZ./VERT.



CULVERT SECTION B-B
SCALE: 1"=10' HORIZ./VERT.



TYPICAL SECTION OF FOOTING ON UNREINFORCED CONCRETE



Project As Built Drawings have been reviewed by the Project Engineer. To the best of his/her knowledge, they represent the project as constructed.

Proj. Eng. *[Signature]* Date 7-17-07



DESIGNED BY: C. Hakari	
DRAWN BY: D. Stevens	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION KETCHIKAN	
LEWIS REEF ROAD CULVERT INSTALLATION	
PROJECT DESIGNATION NUMBER HP-0003(103)/68094	
STATE ALASKA	YEAR 2005
SHEET NUMBER HY1	TOTAL SHEETS

LEWIS REEF ROAD
PROJECT No. 68094

CULVERT INSTALLATION AT
STATION 141+05.71

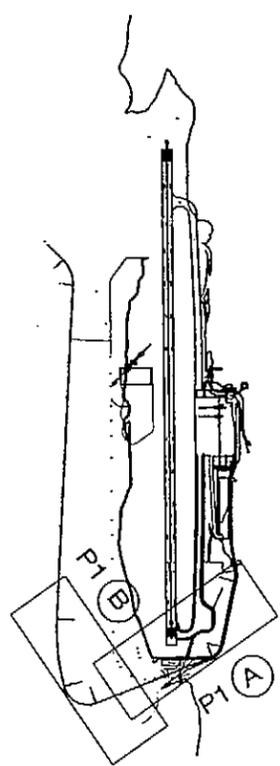
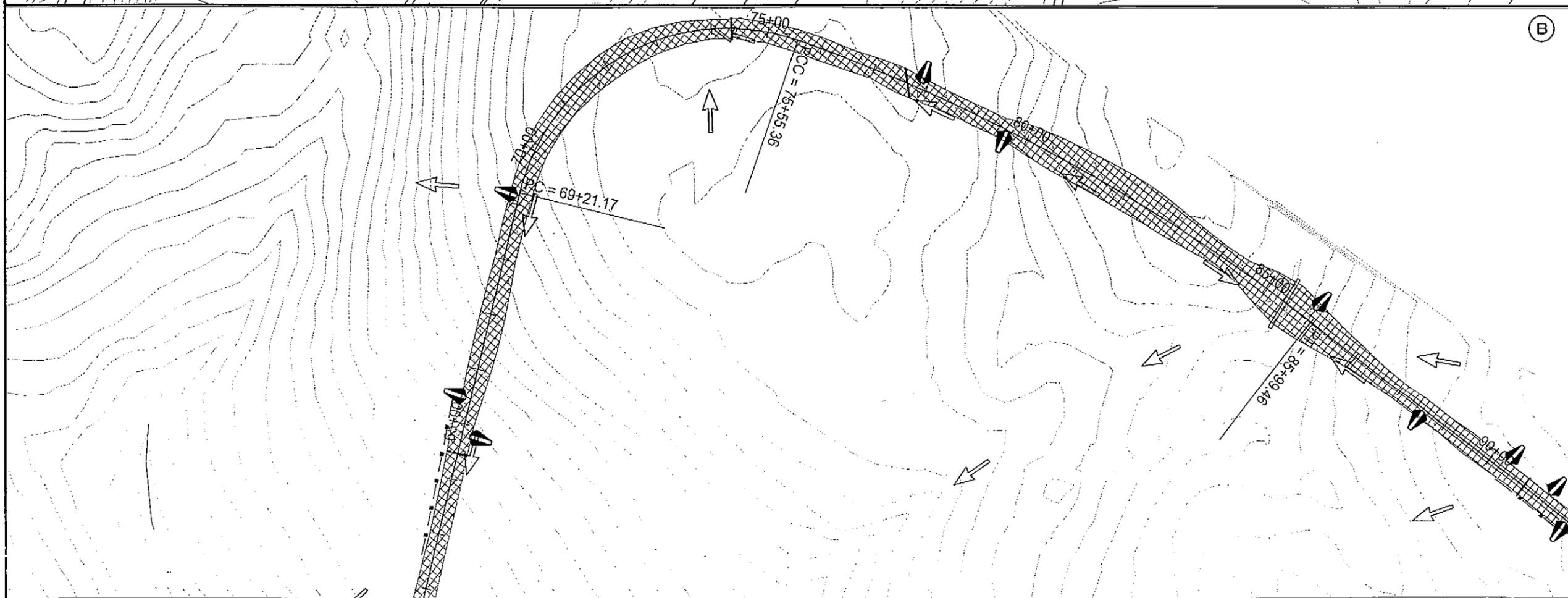
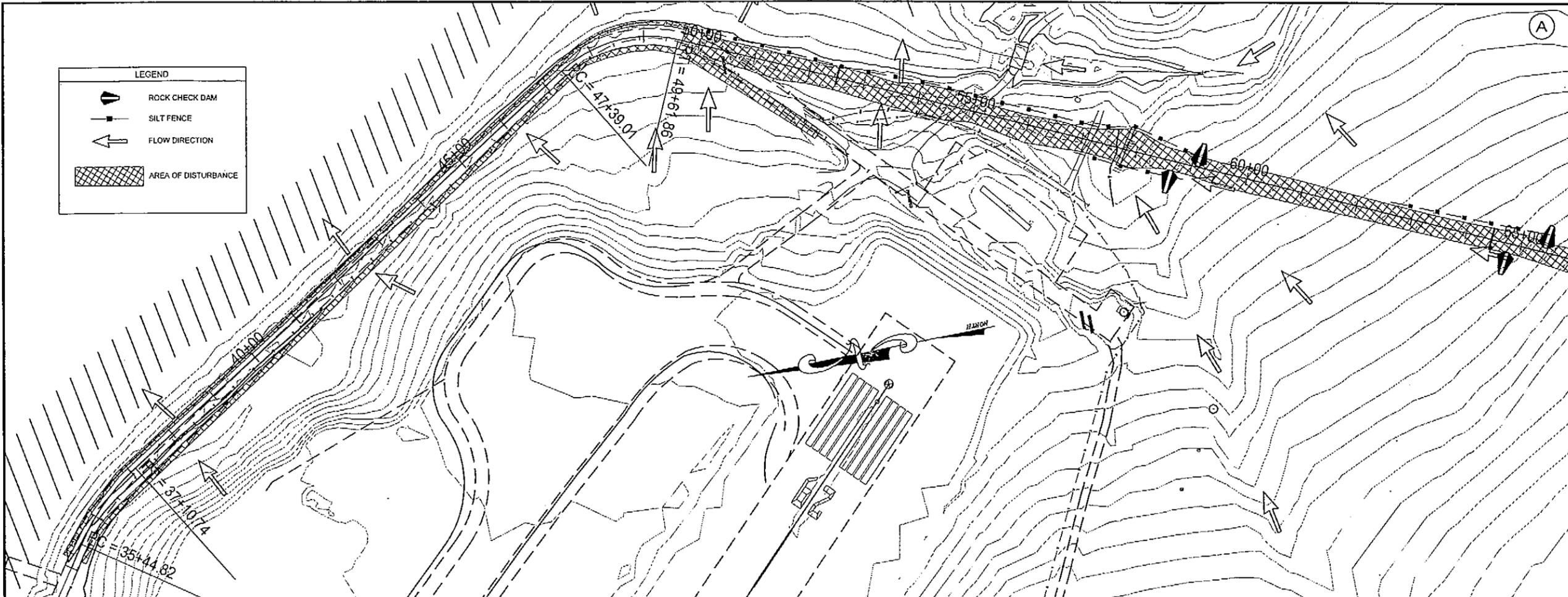
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION
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1	8/29/06	AS BUILT

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LEGEND

	ROCK CHECK DAM
	SILT FENCE
	FLOW DIRECTION
	AREA OF DISTURBANCE



CHECKED BY:

DESIGNED BY: C. Hakari
DRAWN BY: D. Stevens

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
KETCHIKAN

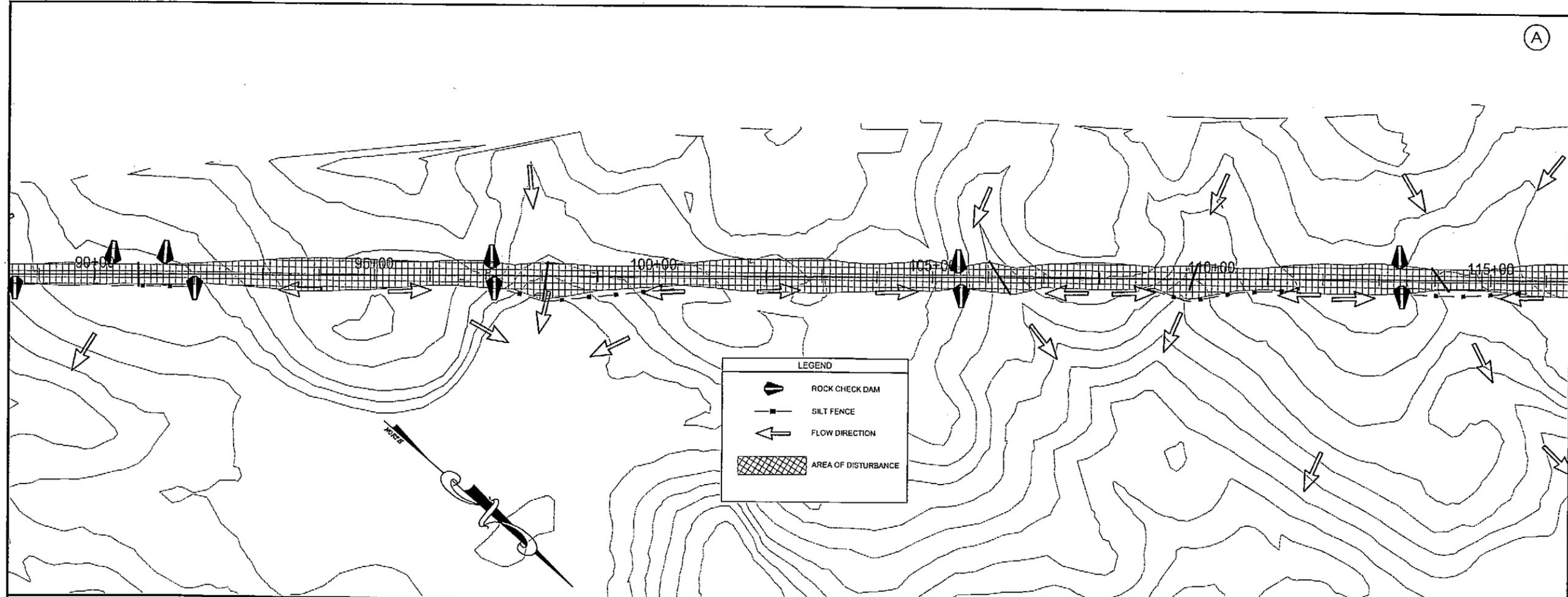
LEWIS REEF ROAD

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION NUMBER
HP-0003(103)/68094

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
P1	16

(A)



LEGEND

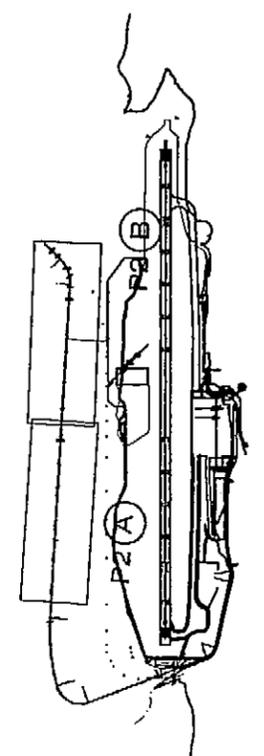
- ROCK CHECK DAM
- SILT FENCE
- FLOW DIRECTION
- AREA OF DISTURBANCE

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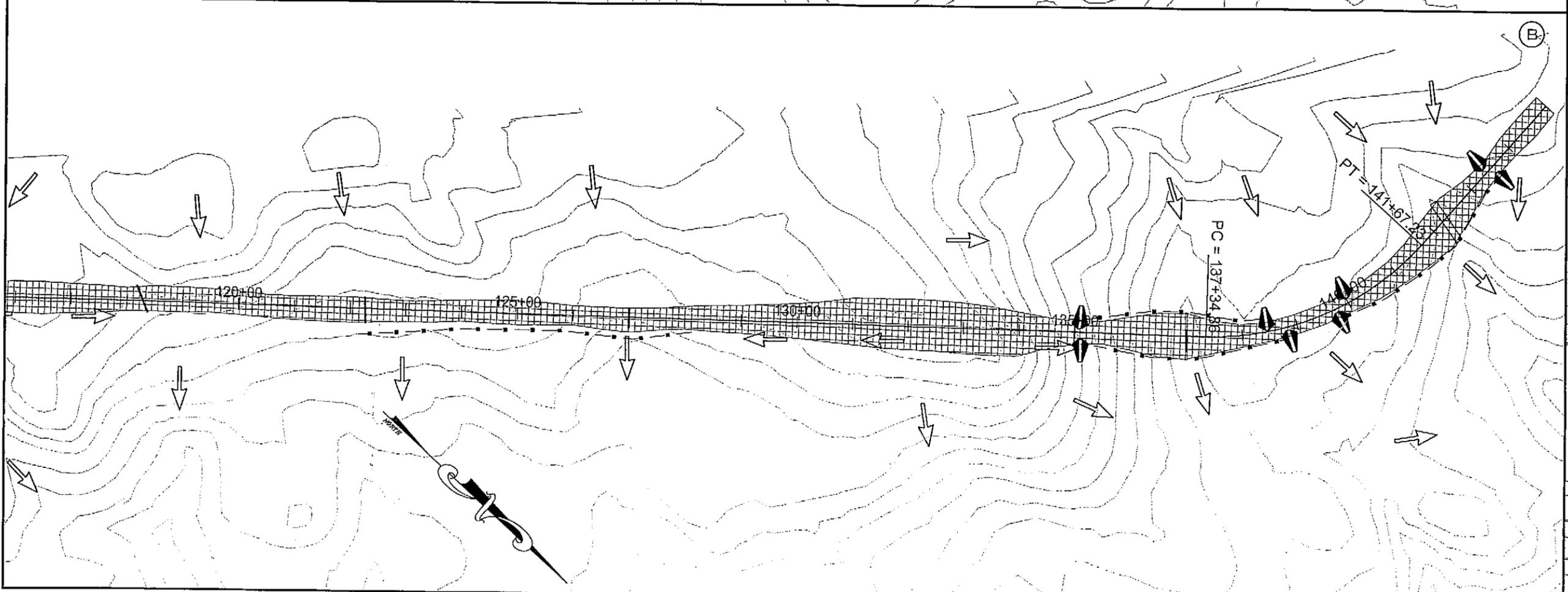
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ADDENDUM NUMBER		
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RECORD OF REVISIONS:		
No.	DATE	DESCRIPTION



(B)



CHECKED BY:

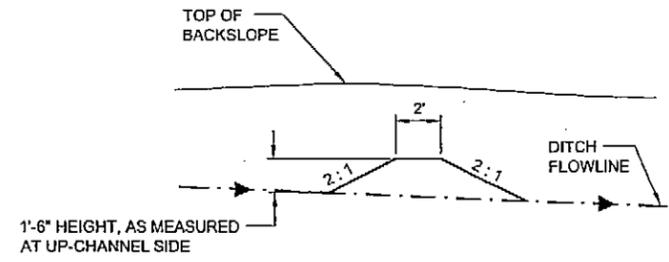
DESIGNED BY: C. Hakari
 DRAWN BY: D. Stevens

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING
 SERVICES DIVISION
 KETCHIKAN
 LEWIS REEF ROAD

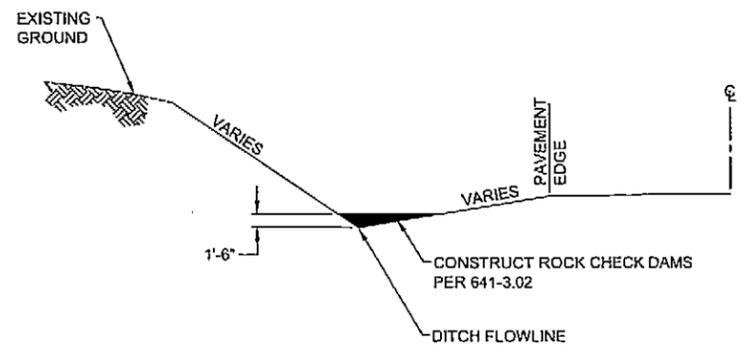
EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION NUMBER
 HP-0003(103)/68094

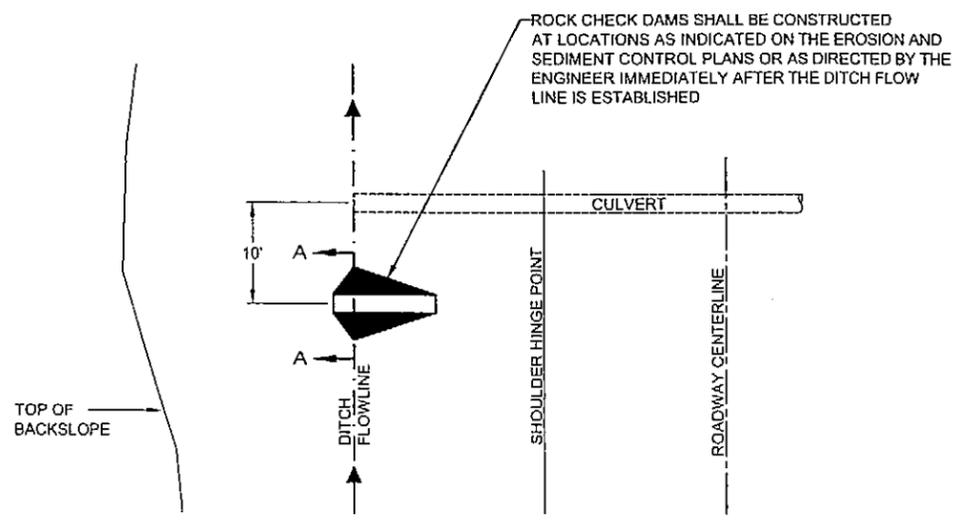
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
P2	16



SECTION A-A

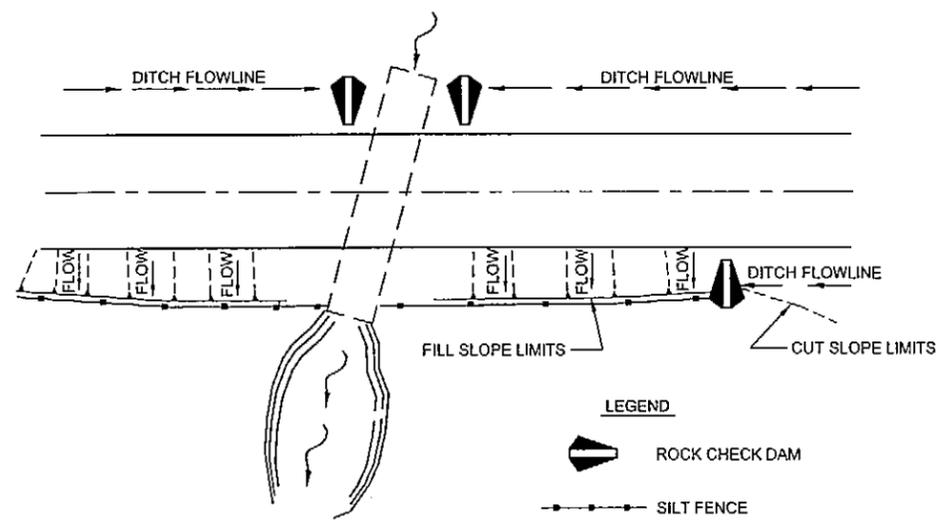


ELEVATION



PLAN

ROCK CHECK DAM DETAILS



TYPICAL INSTALLATION DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. COLLISON		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION	
		LEWIS REEF ROAD PROJECT #68094	
		ENVIRONMENTAL DETAILS	
DESIGNED BY: C. HAKARI		PROJECT DESIGNATION	YEAR
DRAWN BY: D. STEVENS		HP-0003(103)/68094	2005
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TAB: P3		P3	16
REVISIONS			
NO.	DATE	DESCRIPTION	