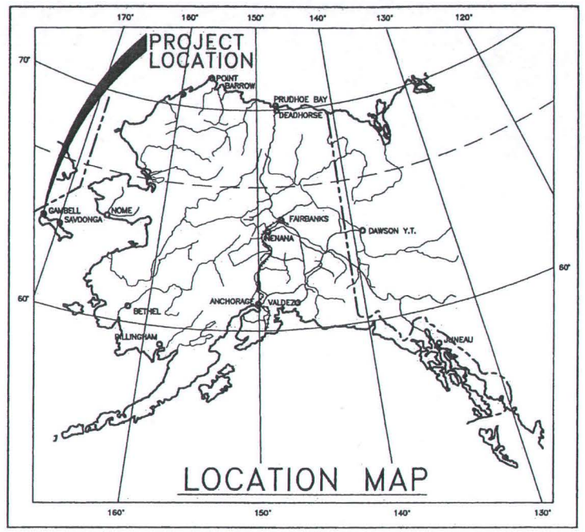
63825	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	ALASKA	ACSTP–0002 (192)	2010	A.1	43
	CDS ROUTE: N/A	MILEPOINT: N/A TO N/A			

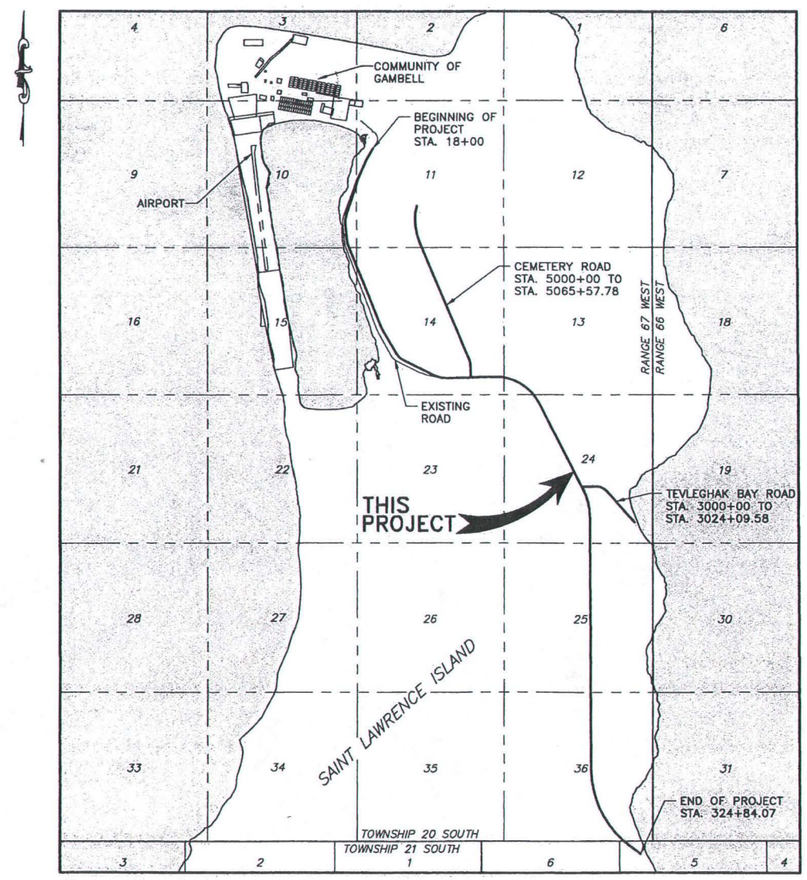
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

GAMBELL EVACUATION ROAD
ACSTP–0002 (192) / 63825
PROPOSED HIGHWAY PROJECT



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A.1	TITLE SHEET
A.2	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
A.3	KEY MAP
B.1–B.2	SURVEY CONTROL DIAGRAM
C.1	TYPICAL SECTIONS
C.2	TURN–AROUND DETAILS
D.1	ESTIMATE OF QUANTITIES AND SIGN SUMMARY
D.2	CULVERT SUMMARY TABLE
L1.2–1.25	PLAN/PROFILE EVACUATION ROAD
L2.1–2.5	PLAN/PROFILE CEMETERY ROAD
L3.1–3.3	PLAN/PROFILE TEVLEGHAK BAY ROAD
M.1–M.2	EROSION AND SEDIMENT CONTROL PLAN



SOURCE MAP: STATE OF ALASKA GIS DATA

VICINITY MAP

DESIGN DESIGNATIONS*

ADT (2010)	< 400
ADT (2030)	< 400
DHV (%)	N/A
% TRUCKS (T)	N/A (ATV)
DIRECTIONAL SPLIT (D)	N/A
DESIGN SPEED (V) (mph)	30 MPH
DESIGN ESAL'S (2030)	N/A (ATV)

* PRIMARY USE OF THESE ROADS WILL BE BY ALL TERRAIN VEHICLE (ATV) TRAFFIC. MOST STANDARD DESIGN DESIGNATIONS ARE NOT APPLICABLE.

PROJECT SUMMARY

ROADWAY	LENGTH	WIDTH
EVACUATION ROAD EXTENSION	30,684'	14'
CEMETERY ROAD	6,558'	14'
TEVLEGHAK BAY ROAD	2,410'	14'

STANDARD DRAWINGS

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:
D–01.02, D04.21

CONFORMED COPY
THE UNDERSIGNED HEREBY CERTIFIES THAT THIS INSTRUMENT IS AN EXACT AND TRUE COPY OF THE ORIGINAL
Dina Borland

PLANS DEVELOPED BY:
RODNEY P. KINNEY ASSOCIATES, INC.
UNDER THE SUPERVISION OF:
STATE OF ALASKA 49TH MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER 6/9/11

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY: Janet Brown DATE 6/9/11
Janet Brown, P.E.
Preconstruction Engineer, Northern Region

ACCEPTED FOR CONSTRUCTION: Steve Titus DATE 6/9/11
Steve Titus, P.E.
Regional Director, Northern Region

Tue, 07/Jun/11 04:03pm

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	A.2	43

PLAN LEGEND

EXISTING	NEW	
		CENTERLINE
105		CONTOUR (5 FOOT INCREMENTS)
		CONTOUR (1 FOOT INCREMENTS)
		CULVERT
		DAYLIGHT LINE
		WATER BODY
		EASEMENT
		EDGE OF GRAVEL ROAD
		PROPERTY LINE / RIGHT-OF-WAY
		SECTION LINE
		TRAIL
W		WATER LINE
	1	SIGN AND CALLOUT

ABBREVIATIONS

ADOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	NE	NORTHEAST
		NW	NORTHWEST
A.D.	ALGEBRAIC DIFFERENCE	N/A	NOT APPLICABLE
ADT	AVERAGE DAILY TRAFFIC	NTS	NOT TO SCALE
APPROX.	APPROXIMATE	PC	POINT OF CURVATURE
		PI	POINT OF INTERSECTION
BVCS	BEGIN VERTICAL CURVE STATION	PRC	POINT OF REVERSE CURVATURE
BVCE	BEGIN VERTICAL CURVE ELEVATION	PT	POINT OF TANGENCY
CL	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CP	CONTROL POINT		
CPEP	CORRUGATED POLYETHYLENE PIPE	RVCE	REVERSE VERTICAL CURVE ELEVATION
D	DELTA	RVCS	REVERSE VERTICAL CURVE STATION
DIA.	DIAMETER		
E	EAST, EASTING	R	RADIUS, RANGE
EL.	ELEVATION	R.O.W.	RIGHT-OF-WAY
EVCS	END OF VERTICAL CURVE STATION	S	SOUTH
		SE	SOUTHEAST
EVCE	END OF VERTICAL CURVE ELEVATION	SW	SOUTHWEST
		SEC.	SECTION
H/HORZ.	HORIZONTAL	STA.	STATION
K	HORIZONTAL DISTANCE TO CHANGE GRADE 1%	ST.	STREET
		T	TANGENT
L	LENGTH OF CURVE	TH	TEST HOLE
MAX.	MAXIMUM	V/VERT.	VERTICAL
MIN.	MINIMUM	VC	VERTICAL CURVE
MPH	MILES PER HOUR	W	WEST
N	NORTH, NORTHING		

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2004 EDITION, AND THE SPECIAL CONTRACT REQUIREMENTS. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN.
2. IF THE CONTRACTOR DEEMS BLASTING IS NECESSARY, BLAST IN ACCORDANCE WITH SECTION 203-3.02. THE COST OF BLASTING IS SUBSIDIARY TO PAY ITEMS 203 AND 301.
3. ALL CULVERTS WILL BE PLACED MATCHING NATURAL FLOW PATTERNS AND SET AT THE EXISTING GROUND LEVEL, UNLESS OTHERWISE SPECIFIED. CULVERTS WILL BE SET AS THE ROAD PROGRESSES. RESET ALL CULVERTS BEFORE FINAL INSPECTION AND AFTER INITIAL SETTLEMENT, ON AN AS-NEEDED BASIS AS DIRECTED BY THE ENGINEER.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO USE CONSTRUCTION METHODS THAT MINIMIZE DISTURBANCE TO THE PERMAFROST THERMAL REGIME AND RESULTANT DEGRADATION OF THE UNDERLYING PERMAFROST. ALL CONSTRUCTION EQUIPMENT WILL BE OPERATED ONLY ON EXISTING OR NEW GRAVEL SURFACES. NO EQUIPMENT MAY OPERATE ON THE EXISTING VEGETATIVE MAT.
5. LAND ACCESS FOR ALL AREAS NOT ON PUBLIC STREETS OR WITHIN PROJECT RIGHT-OF-WAY IS ONLY WITH APPROVAL OF SIVUQAQ, INC., WHICH IS THE VILLAGE CORPORATION AND JOINT LAND OWNER. ALL CONDITIONS STIPULATED BY SIVUQAQ, INC. MUST BE MET.
6. TRAFFIC CONTROL FOR THE NEW ROAD MAY CONSIST OF CLOSING THE ROAD WITH TYPE 3 BARRICADES. CLOSED ROADS MUST BE OPENED ON A TEMPORARY BASIS, AS APPROVED BY THE ENGINEER, FOR SPECIAL USES SUCH AS FUNERAL PROCESSIONS, AS REQUESTED BY THE NATIVE VILLAGE OF GAMBELL, THE CITY OF GAMBELL, OR SIVUQAQ, INC.

VERTICAL PROFILE LEGEND

EXISTING	PROPOSED	
		FINISHED GRADE, CENTERLINE
		EXISTING GROUND, CENTERLINE
		EXISTING GROUND, 7' LEFT
		EXISTING GROUND, 7' RIGHT
		POINT OF VERTICAL INTERSECTION
		CULVERT

Thu, 06/Oct/11 11:15am

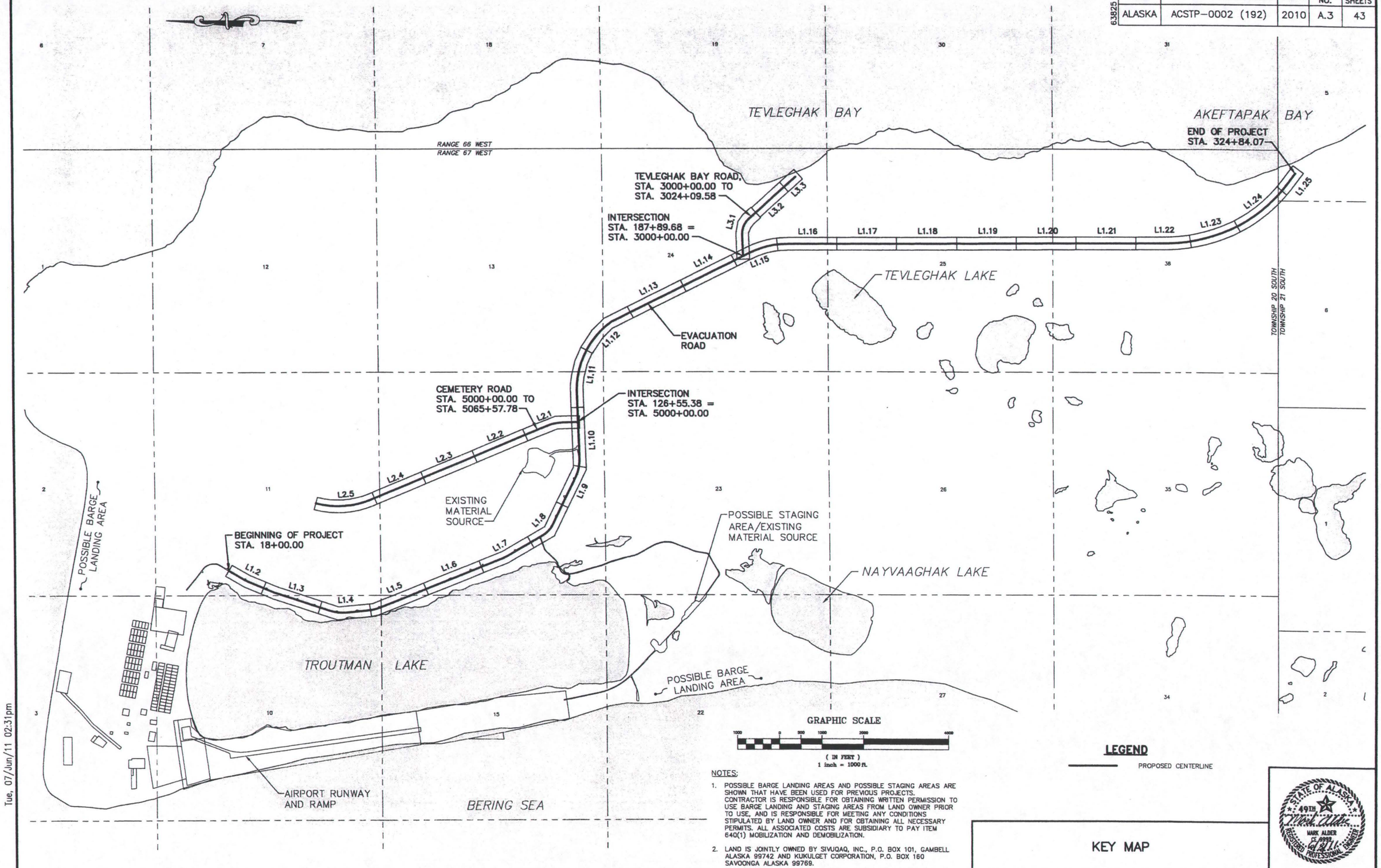
STATE OF ALASKA 49TH MARK ALDER CE 9993 REGISTERED PROFESSIONAL ENGINEER

LEGEND, ABBREVIATIONS, AND GENERAL NOTES

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\A3 (key map)-A3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	A.3	43

63825



NOTES:

1. POSSIBLE BARGE LANDING AREAS AND POSSIBLE STAGING AREAS ARE SHOWN THAT HAVE BEEN USED FOR PREVIOUS PROJECTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING WRITTEN PERMISSION TO USE BARGE LANDING AND STAGING AREAS FROM LAND OWNER PRIOR TO USE, AND IS RESPONSIBLE FOR MEETING ANY CONDITIONS STIPULATED BY LAND OWNER AND FOR OBTAINING ALL NECESSARY PERMITS. ALL ASSOCIATED COSTS ARE SUBSIDIARY TO PAY ITEM 640(1) MOBILIZATION AND DEMOBILIZATION.
2. LAND IS JOINTLY OWNED BY SIVUQAQ, INC., P.O. BOX 101, GAMBELL ALASKA 99742 AND KUKULGET CORPORATION, P.O. BOX 160 SAVOONGA ALASKA 99769.

KEY MAP

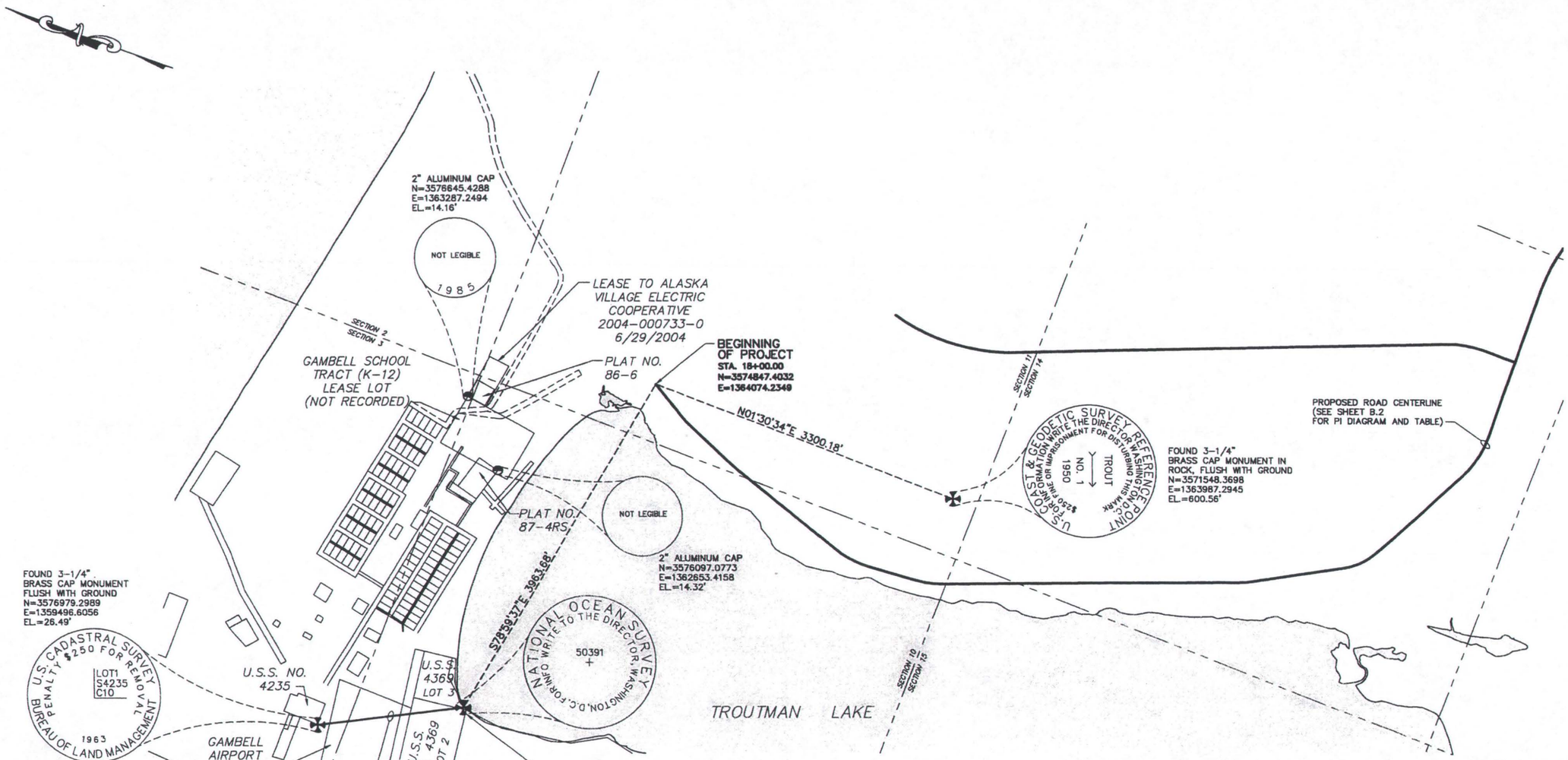
STATE OF ALASKA 49TH MARK ALDER CE 9991 REGISTERED PROFESSIONAL ENGINEER

Tue, 07/Jun/11 02:31pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\B.1 (survey control)-B1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	B.1	43

63825



BASIS OF ELEVATION

3-1/4" BRASS MONUMENT

NATIONAL OCEAN SERVICE GEO STATION 50391.

THE STATION IS LOCATED NORTHEAST OF THE AIRPORT ALONG THE EDGE OF TROUTMAN LAKE, 373.64 FEET SOUTHWEST OF THE SOUTHERN MOST STATE MAINTENANCE BUILDING. THE STATION IS A STANDARD NATIONAL OCEAN SERVICE DISK STAMPED, 50391, SET IN THE NORTH CORNER OF THE PUMP HOUSE FLOOR.

LATITUDE: 63°46'28.09137" N PUBLISHED NAD 83 (1986 ADJUSTMENT)
LONGITUDE: 171°43'55.16541 W PUBLISHED NAD 83 (1986 ADJUSTMENT)

N=3575604.1504
E=1360183.4673
EL.=6.00' (SUPERCEDED NGVD29).

NOTES:

1. THESE PLANS ARE BASED ON THE FOLLOWING DATA:
   A) PHOTOGRAPHY ACQUIRED BY AREO-METRIC, INC. ON JUNE 14, 2005 AT A NOMINAL SCALE OF 1"=800'.
   B) LIDAR SURVEY PERFORMED BY AREO-METRIC, INC. ON AUGUST 25, 2005 AT A HEIGHT OF 600 METERS ABOVE MEAN TERRAIN.
   C) CONTROL SURVEY PERFORMED BY RODNEY P. KINNEY ASSOCIATES, INC. ON SEPTEMBER 15, 2006.
2. THE PLANIMETRIC MAPPING WAS COMPILED TO MEET HORIZONTAL ACCURACY IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS.
3. LIDAR DATA WAS COMPILED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS TO MEET PLANNED VERTICAL ACCURACY OF SIX INCHES OR BETTER.
4. STATE PLANE COORDINATES, WHERE THEY APPEAR, ARE BASED UPON NAD83, ASP, ZONE 9, EXPRESSED IN U.S. SURVEY FEET.
5. VERTICAL DATA IS REFERENCED TO NGVD29.

LEGEND
(THIS SHEET ONLY)

- 3-1/4" BRASS MONUMENT
- 2" ALUMINUM CAP
- PROPOSED ROAD CENTERLINE
- PROPERTY LINE
- SECTION LINE
- SURVEY TIE

GRAPHIC SCALE

600 0 300 600 1200 2400

(IN FEET)
1 inch = 600 ft.

SURVEY CONTROL DIAGRAM

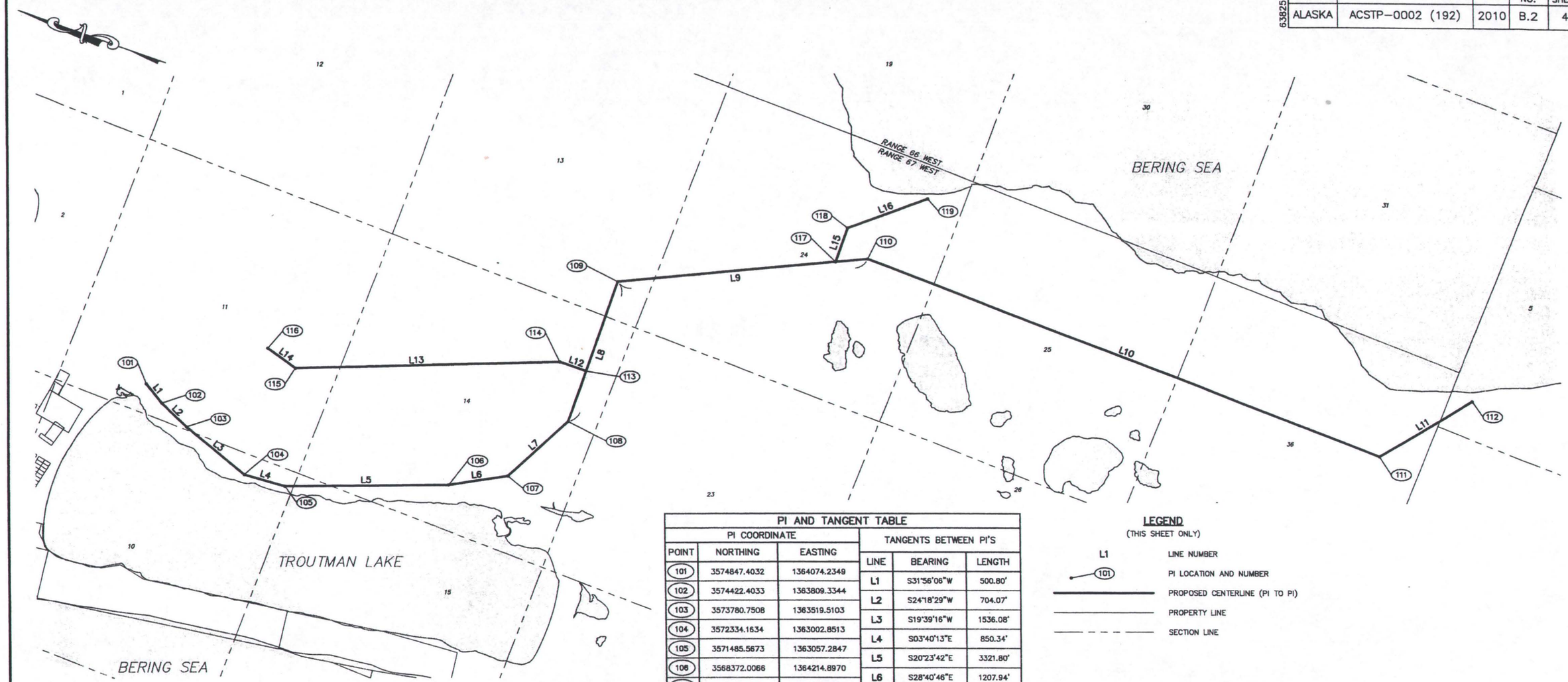
STATE OF ALASKA 49TH
Kevin M. Smith
10/8/10

Tue, 07/Jun/11 02:32pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\B.2 (pi and tangent diagram, table)-B2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	B.2	43

63825



PI AND TANGENT TABLE

PI COORDINATE		
POINT	NORTHING	EASTING
101	3574847.4032	1364074.2349
102	3574422.4033	1363809.3344
103	3573780.7508	1363519.5103
104	3572334.1634	1363002.8513
105	3571485.5673	1363057.2847
106	3568372.0066	1364214.8970
107	3567312.2617	1364794.5960
108	3566532.0679	1366262.5405
109	3566540.7921	1369311.0154
110	3561956.2167	1371465.9237
111	3550831.1308	1371225.4822
112	3549466.0045	1372949.3896
113	3566535.2176	1367363.1221
114	3567096.3039	1367361.5163
115	3572095.4620	1365417.8245
116	3572752.6722	1365608.0944
117	3562530.9700	1371195.7700
118	3562539.2445	1371926.9412
119	3561239.2333	1373035.7114

TANGENTS BETWEEN PI'S		
LINE	BEARING	LENGTH
L1	S31°56'06"W	500.80'
L2	S24°18'29"W	704.07'
L3	S19°39'16"W	1536.08'
L4	S03°40'13"E	850.34'
L5	S20°23'42"E	3321.80'
L6	S28°40'46"E	1207.94'
L7	S62°00'36"E	1662.40'
L8	N89°50'10"E	3048.49'
L9	S25°10'31"E	5065.76'
L10	S01°17'17"W	11127.68'
L11	S51°37'30"E	2198.96'
L12	N00°09'50"W	561.09'
L13	N21°17'46"W	5365.54'
L14	N16°32'52"E	685.61'
L15	N89°21'06"E	731.22'
L16	S40°27'38"E	1708.63'

LEGEND
(THIS SHEET ONLY)

- L1 — LINE NUMBER
- 101 — PI LOCATION AND NUMBER
- PROPOSED CENTERLINE (PI TO PI)
- PROPERTY LINE
- SECTION LINE

GRAPHIC SCALE

1000 0 500 1000 2000 4000

(IN FEET)
1 inch = 1000 ft.

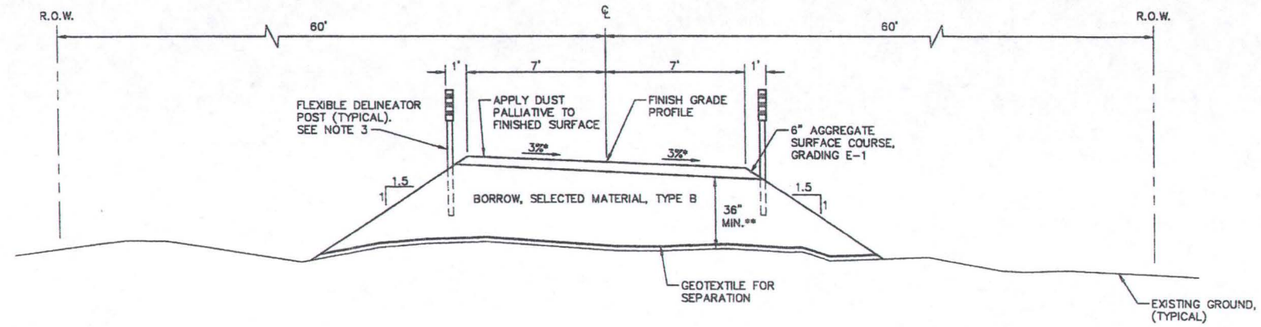
Tue, 07/Jun/11 02:53pm

STATE OF ALASKA
Kevin M. Smith
6/8/11

SURVEY CONTROL DIAGRAM
PI AND TANGENT DIAGRAM/TABLE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	C.1	43

63825

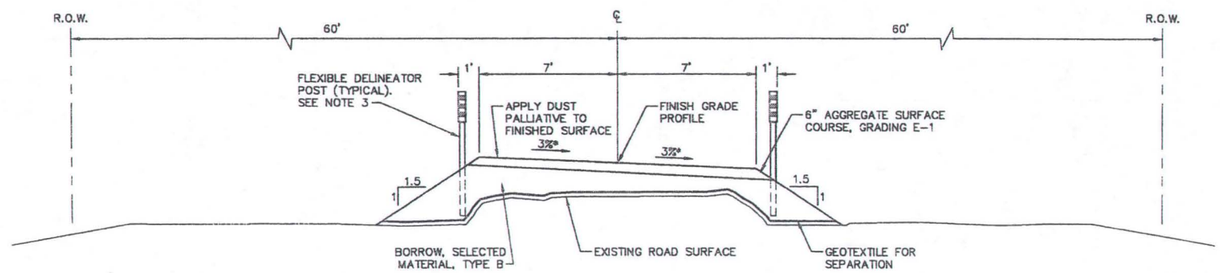


TYPICAL ROAD SECTION
NEW CONSTRUCTION – NTS

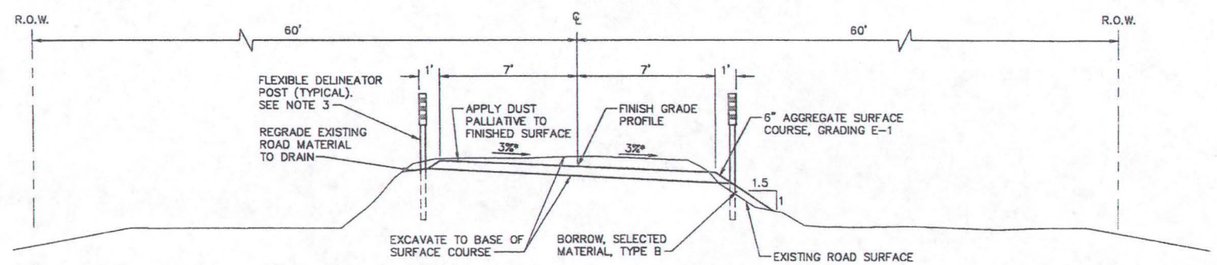
CROSS SLOPE EXCEPTION TABLE (SLOPE LEFT)
STATION RANGE
STA. 97+00.00 TO STA. 101+00.00
STA. 180+00.00 TO STA. 254+00.00
STA. 3010+25.00 TO STA. 3024+09.58
STA. 5000+00.00 TO STA. 5020+00.00

NOTES:

1. *VARY DIRECTION OF CROSS-SLOPE TO SHED WATER TO LEFT SIDE OF THE ROAD FOR STATION RANGES SHOWN IN EXCEPTION TABLE. TRANSITION CROSS-SLOPE OVER A 100-FOOT LENGTH.
2. **MINIMUM BORROW THICKNESS FOR CEMETERY ROAD IS 24" INSTEAD OF 36" SHOWN.
3. FLEXIBLE DELINEATOR POSTS SHALL INCLUDE A CYLINDRICAL VISIBILITY ENHANCING CAP WITH (3) 3" REFLECTIVE BANDS AROUND THE CAP, FASTENED TO THE TOP OF EACH POST TO PROVIDE 360 DEGREE REFLECTIVE VISIBILITY. INSTALL DELINEATOR POSTS AT 200-FOOT SPACING ON EACH SIDE OF ROAD, WITH ALTERNATE SIDES STAGGERED TO PROVIDE A NET SPACING OF 100 FEET BETWEEN POSTS ON OPPOSITE SIDES OF ROAD. POSTS SHALL BE ORANGE IN COLOR, WITH AN EMBEDDED DEPTH OF 24 INCHES AND AN EXPOSED HEIGHT OF 48 INCHES.



TYPICAL ROAD SECTION
UPGRADES TO EXISTING ROAD, FILL – NTS



TYPICAL ROAD SECTION
UPGRADES TO EXISTING ROAD, PARTIAL CUT– NTS

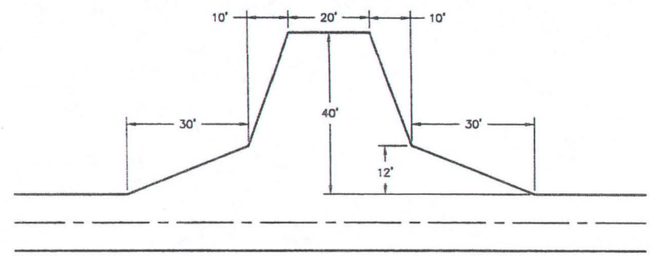
TYPICAL SECTIONS

STATE OF ALASKA 49TH MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER

Wed, 08/Jun/11 02:06pm

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	C.2	43

63825



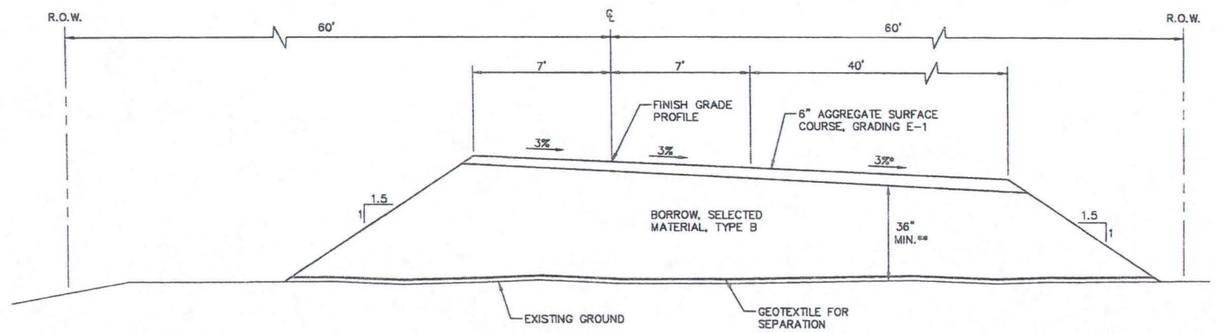
NOTES:

1. TURN-AROUND LOCATIONS SHOWN IN THESE PLANS HAVE BEEN GENERALLY LOCATED ON THE DOWNHILL SIDE OF THE ROAD TO MINIMIZE DRAINAGE DISRUPTION. LOCATIONS MAY BE ADJUSTED BY THE ENGINEER.

2. TURN-AROUND IS ALSO DESIGNED TO FUNCTION AS A PULL-OUT TO ALLOW ON-COMING TRAFFIC TO PASS.

TURN-AROUND DETAIL

-NTS-



NOTES:

1. *CROSS-SLOPE OF TURN-AROUND PORTION MAY BE ADJUSTED TO 3% UP IF TURN-AROUND IS ON UPHILL SIDE OF ROAD, IF NEEDED TO MAINTAIN REQUIRED MINIMUM BORROW THICKNESS.

   ADJUST CROSS-SLOPE OF TURN-AROUND POSITION AT THE FOLLOWING LOCATIONS TO AVOID CUT SITUATION AND MAINTAIN FINISHED GRADE OF TURN-AROUND AT OR ABOVE EXISTING GROUND.

   STA. 27+64
   STA. 39+50
   STA. 65+50
   STA. 81+50

2. **MINIMUM BORROW THICKNESS FOR CEMETERY ROAD IS 24" INSTEAD OF 36" SHOWN.

TYPICAL TURN-AROUND SECTION

NTS

TURN-AROUND DETAILS

STATE OF ALASKA 49TH MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER

Wed, 08/Jun/11 02:11pm

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	D.1	43

SIGN SUMMARY

SIGN NO. SHEET NO.	LOCATION (STATION)	LEGEND	SIGN TYPE (SEE NOTE 1 THIS SHEET)	SIZE	FACING
1 SHEET NO. L1.8	96+81	STOP	R1-1	24x24	SOUTHWEST
2 SHEET NO. L1.10	126+31	STOP	R1-1	24x24	NORTH
3 SHEET NO. L1.15	187+78	STOP	R1-1	24x24	EAST

NOTES:

1. REFERENCE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2009 EDITION, "ALASKA TRAFFIC MANUAL SUPPLEMENT", JANUARY 2003 EDITION, AND "ALASKA SIGN DESIGN SPECIFICATIONS."
2. INSTALL SIGNS IN ACCORDANCE WITH ADOT&PF STANDARD DETAILS S-01.00, S-05.01, S-20.10, AND S-30.03, (4' SOIL EMBEDMENT) WITH 2 1/4" x 2 1/4" PERFORATED STEEL TUBE POST.
3. SIGN LOCATION SHALL BE 7' FROM EDGE OF SHOULDER TO CENTER OF POST.

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
203(5)	SELECTED MATERIAL, TYPE B	CUBIC YARD	98,303
203(19)	UNCLASSIFIED EXCAVATION	LUMP SUM	ALL REQUIRED
301(4)	AGGREGATE SURFACE COURSE, GRADING E-1	CUBIC YARD	12,809
602(2)	STRUCTURAL PLATE PIPE-ARCH 79 INCH SPAN, 68 INCH RISE, ALUMINUM	LINEAR FOOT	273
603(21-12)	12-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	2,448
603(21-24)	24-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	586
603(21-36)	36-INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	212
611(1)	RIPRAP, CLASS 2	CUBIC YARD	234
615(1)	STANDARD SIGN	SQUARE FOOT	12
615(5)	DELINEATORS, FLEXIBLE	EACH	405
624(1)	CALCIUM CHLORIDE	TON	37
630(1)	GEOTEXTILE SEPARATION	SQUARE YARD	121,685
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(3)	MEALS AND LODGING	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(4)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQUIRED
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
644(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644(2)	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644(6)	VEHICLES	LUMP SUM	ALL REQUIRED
644(15)	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EACH	1
644(16)	STORAGE CONTAINER	EACH	1
645(1)	TRAINING PROGRAM, (2) TRAINEES/APPRENTICES	LABOR HOUR	975

ESTIMATE OF QUANTITIES AND SIGN SUMMARY

STATE OF ALASKA 49TH MARK ALDER CE/9992 REGISTERED PROFESSIONAL ENGINEER

Thu, 06/Oct/11 09:46am

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\D.1-D.2 (quantities, culvert, superelevation tables)-D.2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	D.2	43

63825

CULVERT TABLE

NO.	STATION	SKEW	PIPE CULVERT (LINEAR FEET)				ESTIMATED BEDDING QUANTITY, SEE NOTE 4 (CUBIC YARDS)
	DIAMETER (IN)		12"	24"	36"	79"x68" ARCH	
1	NOT USED						-
2	NOT USED						-
3	NOT USED						-
4	18+60	0	23				-
5	19+22	0	26				-
6	22+70	0	32				-
7	24+23	0	29				-
8	27+25	-7	33				7
9	29+85	-10	29				-
10	33+97	-16			57		20
11	35+75	0	32				7
12	38+69	-10	25				6
13	41+07	0	27				-
14	43+25	-19	30				7
15	44+80	-6		41			13
16	47+79	14		56			15
17	49+33	5	46				8
18	52+76	5		51			17
19	56+78	-8	40				9
20	61+05	8		37			12
21	64+15	12	33				7
22	65+97	6	28				6
23	69+95	-11		29			10
24	72+46	0		32			11
25	73+69	10	29				6
26	75+41	5	24				5
27	76+09	5	31				6
28	77+64	14	32				7
29	78+84	16	34				-
30	80+62	10			39		14
31	81+77	10	29				-
32	84+71	0	31				-
33	87+37	16	35				-
34	90+20	15	30				7
35	92+20	0	27				6
36	93+47	13	28				6
37	94+49	0	26				-
38	95+12	21	31				-
39	97+32	14		36			12

CULVERT TABLE

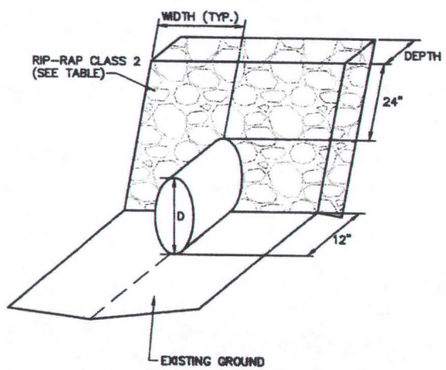
NO.	STATION	SKEW	PIPE CULVERT (LINEAR FEET)				ESTIMATED BEDDING QUANTITY, SEE NOTE 4 (CUBIC YARDS)
	DIAMETER (IN)		12"	24"	36"	79"x68" ARCH	
40	101+18	39	38				8
41	102+05	14	29				6
42	103+41	3	33				7
43	107+01	4	32				7
44	108+76	26			36		-
45	110+50	23	32				-
46	112+50	23	36				-
47	113+22	24	36				8
48	116+13	0		29			8
49	120+72	27			40		15
50	123+76	54				82	34
51	123+87	54				85	34
52	132+68	40			40		15
53	137+37	40	34				-
54	143+10	-7	26				-
55	149+57	4		27			-
56	154+90	0	27				-
57	160+36	9	29				-
58	168+53	-30	38				-
59	181+93	37	35				-
60	185+00	33	32				-
61	186+78	50	42				-
62	191+47	24	33				-
63	192+52	12	32				-
64	195+43	0	31				-
65	199+77	-13	29				-
66	202+22	-35	35				-
67	205+04	-21	30				-
68	207+56	0	27				-
69	208+50	0	28				-
70	213+92	-31	32				-
71	271+18	-43	38				-
72	302+32	-60	63				-
73	305+50	-8	29				-
74	308+98	28	32				-
75	312+20	31	32				-
76	320+00	29	31				-
77	3009+50	40		46			-
78	3010+24	50	46				10

CULVERT TABLE

NO.	STATION	SKEW	PIPE CULVERT (LINEAR FEET)				ESTIMATED BEDDING QUANTITY, SEE NOTE 4 (CUBIC YARDS)
	DIAMETER (IN)		12"	24"	36"	79"x68" ARCH	
79	3011+57	41	37				-
80	3013+00	38		41			13
81	3014+15	40	38				-
82	3016+50	36	36				7
83	3018+50	37	36				8
84	3021+10	34		49			14
85	3022+50	29	34				6
86	5000+16	2		54			18
87	5001+84	-33				54	18
88	5002+55	-33				52	17
89	5006+11	-19	27				-
90	5011+87	-58		58			20
91	5014+00	-10	26				6
92	5020+50	-2	24				6
93	5026+48	22	31				7
94	5030+00	41	35				8
95	5034+50	30	30				7
96	5046+13	41	36				8
97	5049+42	27	36				8
98	5052+00	27	43				9
99	5053+95	27	31				7
100	5055+51	14	29				6
101	5057+00	17	27				6
102	5058+50	6	25				6
	CUMULATIVE TOTAL		2448	586	212	273	581

NOTES:

1. QUANTITIES SHOWN HERE ARE APPROXIMATE. FIELD LOCATE CULVERTS AND ADJUST LENGTHS, SKEWS, AND INVERT ELEVATIONS TO THE SATISFACTION OF THE ENGINEER.
2. POSITIVE SKEW VALUES ARE CLOCKWISE. NEGATIVE SKEW VALUES ARE COUNTERCLOCKWISE.
3. ALL CULVERTS WILL BE PLACED MATCHING NATURAL FLOW PATTERNS AND SET AT THE EXISTING GROUND LEVEL, UNLESS OTHERWISE SPECIFIED. CULVERTS WILL BE SET AS THE ROAD PROGRESSES. RESET ALL CULVERTS BEFORE FINAL INSPECTION AND AFTER INITIAL SETTLEMENT, ON AN AS-NEEDED BASIS AS DIRECTED BY THE ENGINEER.
4. BED CULVERTS IN ACCORDANCE WITH STANDARD DRAWING D-01.02 IN ALL AREAS WHERE BOULDERS ARE PRESENT UNDERNEATH CULVERT, OR AS OTHERWISE DIRECTED BY THE ENGINEER. EXCAVATION AND BEDDING ARE INCIDENTAL TO CULVERT PAY ITEMS, AND WILL NOT BE PAID SEPARATELY. ESTIMATED BEDDING QUANTITIES ARE SHOWN FOR INFORMATION ONLY.
5. INSTALL A CULVERT MARKER POST IN ACCORDANCE WITH STANDARD DRAWING D-09.00 AT EACH END OF ALL CULVERTS. CULVERT MARKER POSTS ARE SUBSIDIARY TO CULVERT PAY ITEMS, AND WILL NOT BE PAID SEPARATELY.



OUTLET/INLET PROTECTION
CULVERT ENDS - NTS

RIP-RAP TABLE		
CULVERT SIZE (D)	DEPTH	WIDTH
12"	NONE	NONE
24"	2'	7'
36"	2'	7.5'
79" x 68" ARCH	2'	12'

Thu, 06/Oct/11 09:46am

CULVERT SUMMARY TABLE

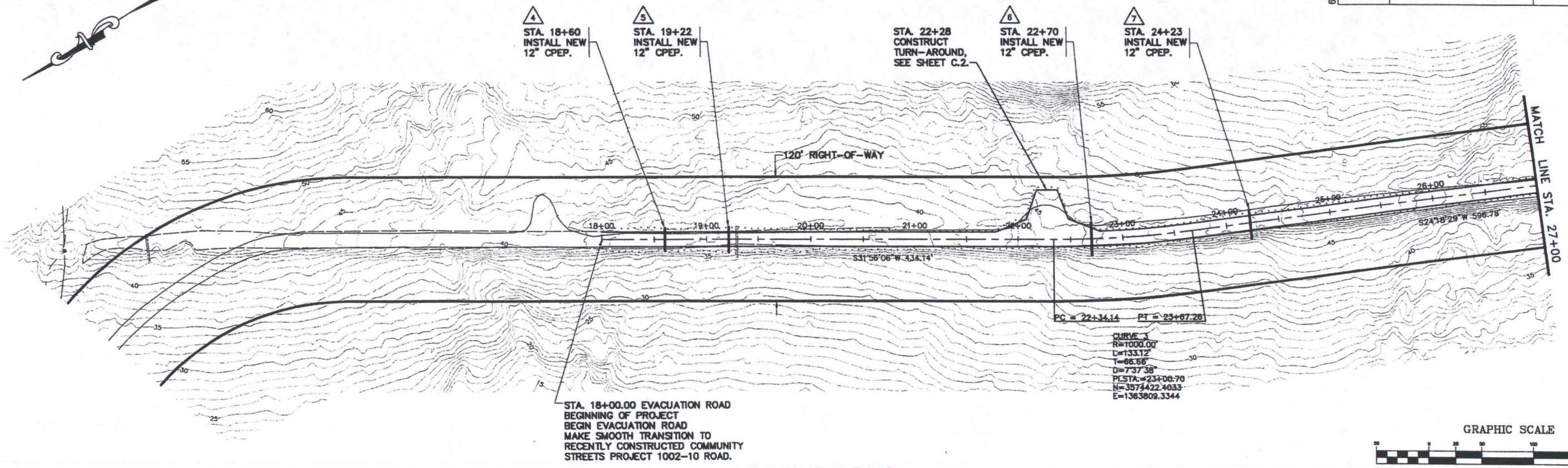
STATE OF ALASKA 49TH STATE MARK ALDER REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.2

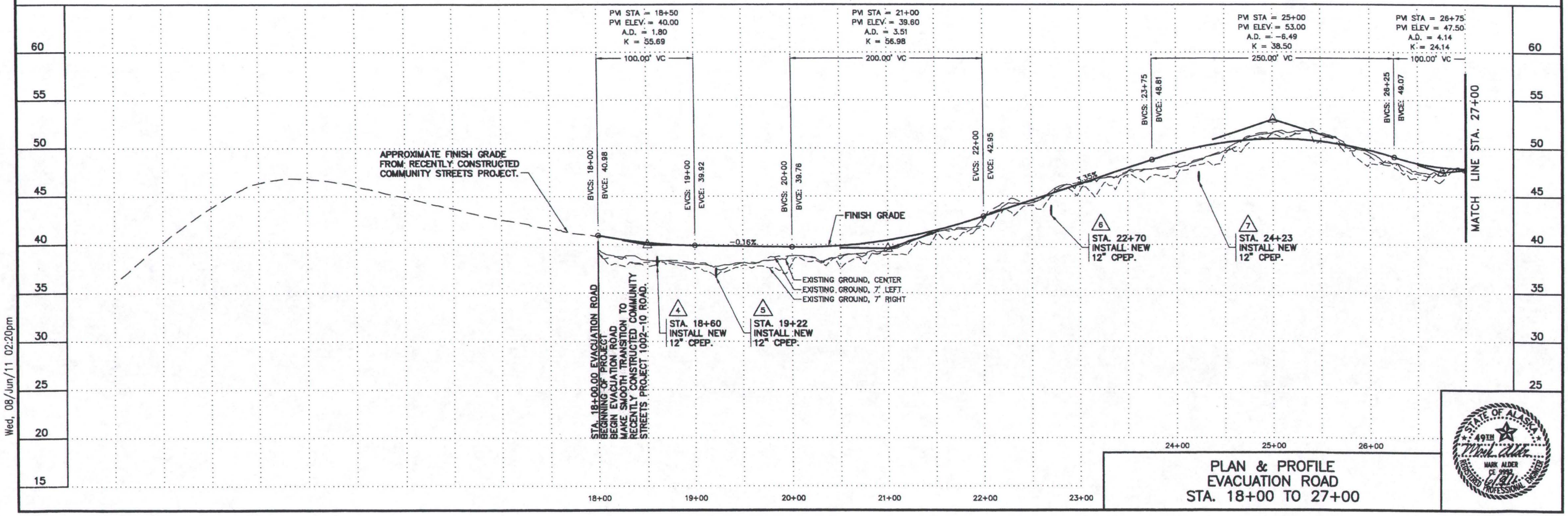
63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.2	43

SEC 11, T20S, R67W, KRM



EVACUATION ROAD



Wed, 08/Jun/11 02:20pm

STATE OF ALASKA
49TH
MARK ALDER
CE 9992
REGISTERED PROFESSIONAL ENGINEER

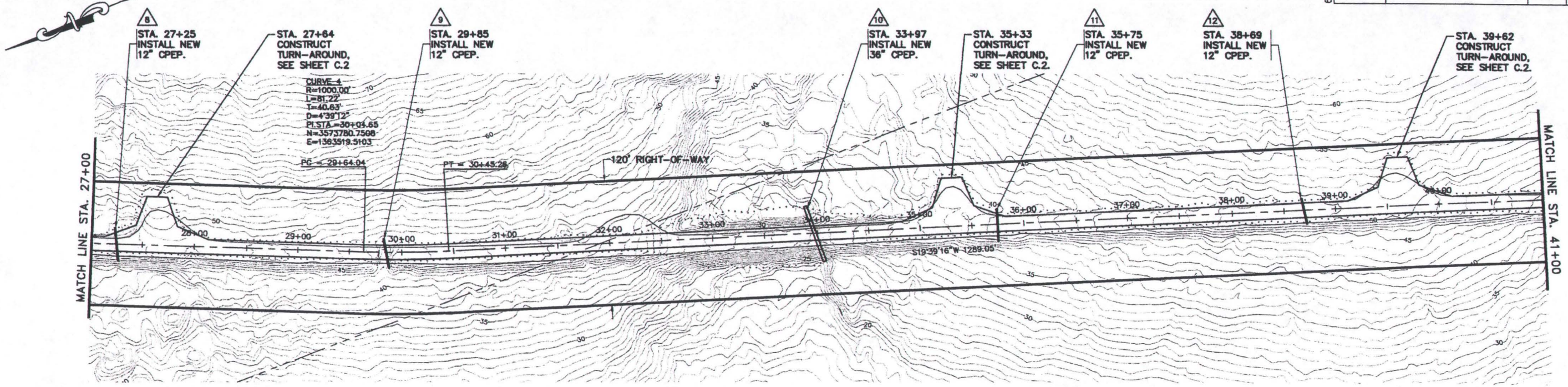
PLAN & PROFILE
EVACUATION ROAD
STA. 18+00 TO 27+00

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.3

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.3	43

SEC 11, T20S, R67W, KRM

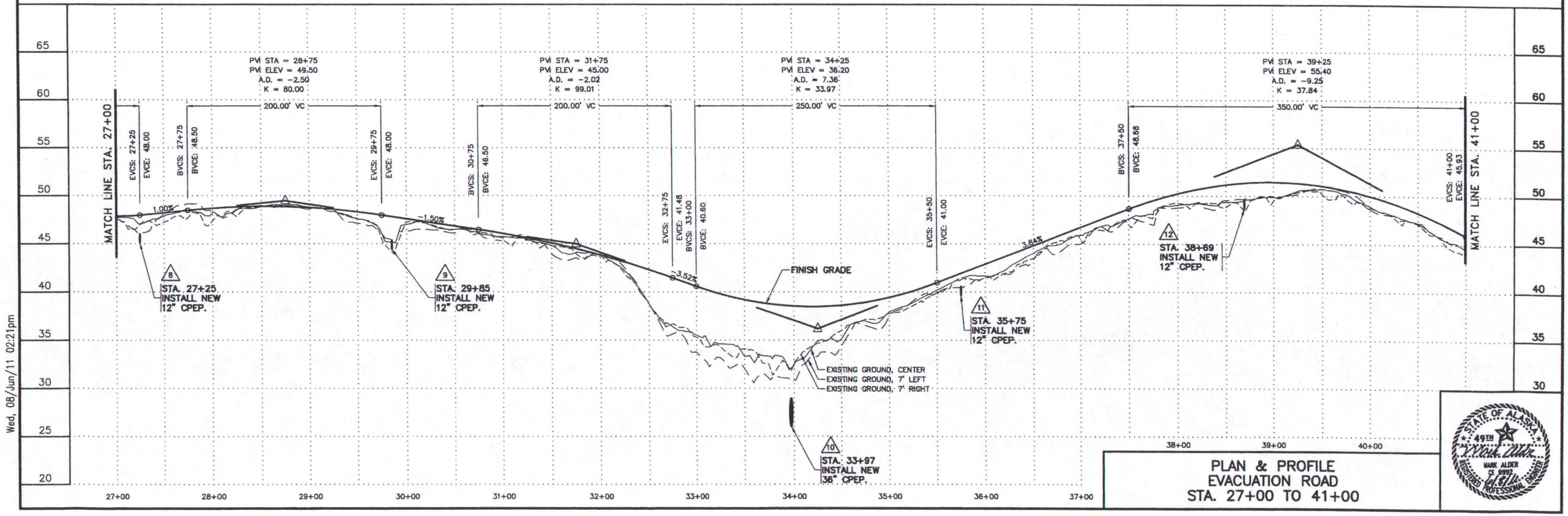


SEC 10, T20S, R67W, KRM

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:21pm

PLAN & PROFILE
EVACUATION ROAD
STA. 27+00 TO 41+00

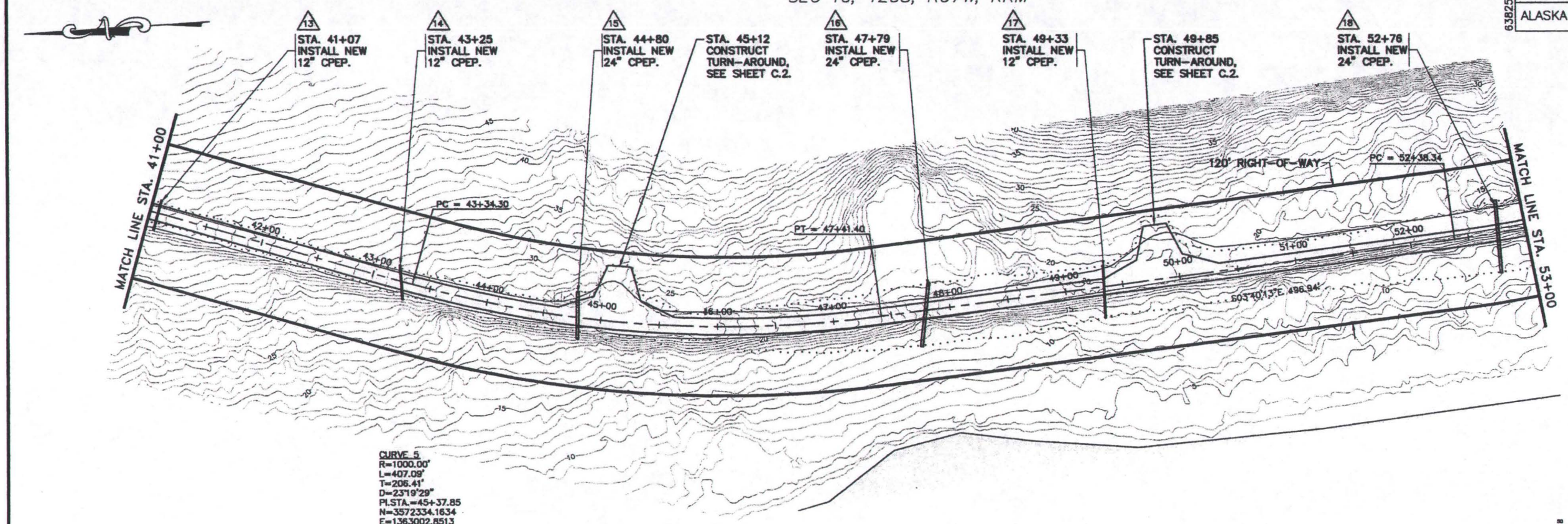
STATE OF ALASKA
49TH
MARK ALDER
CE 9997
REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.4

SEC 10, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.4	43

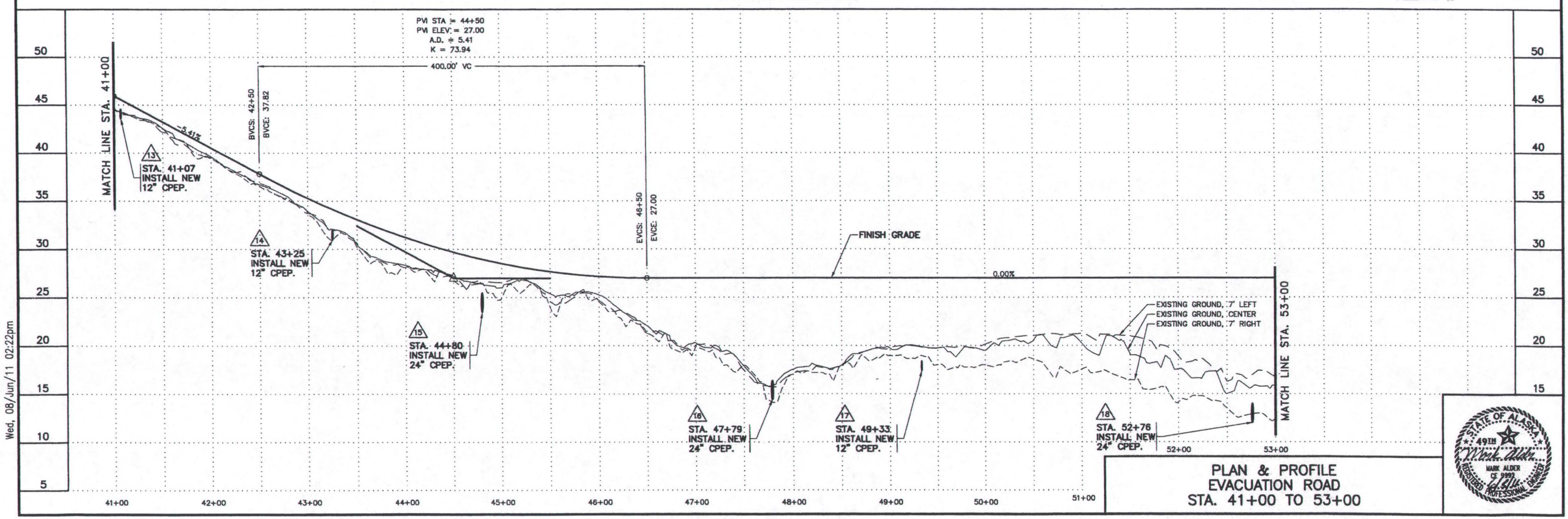
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:22pm

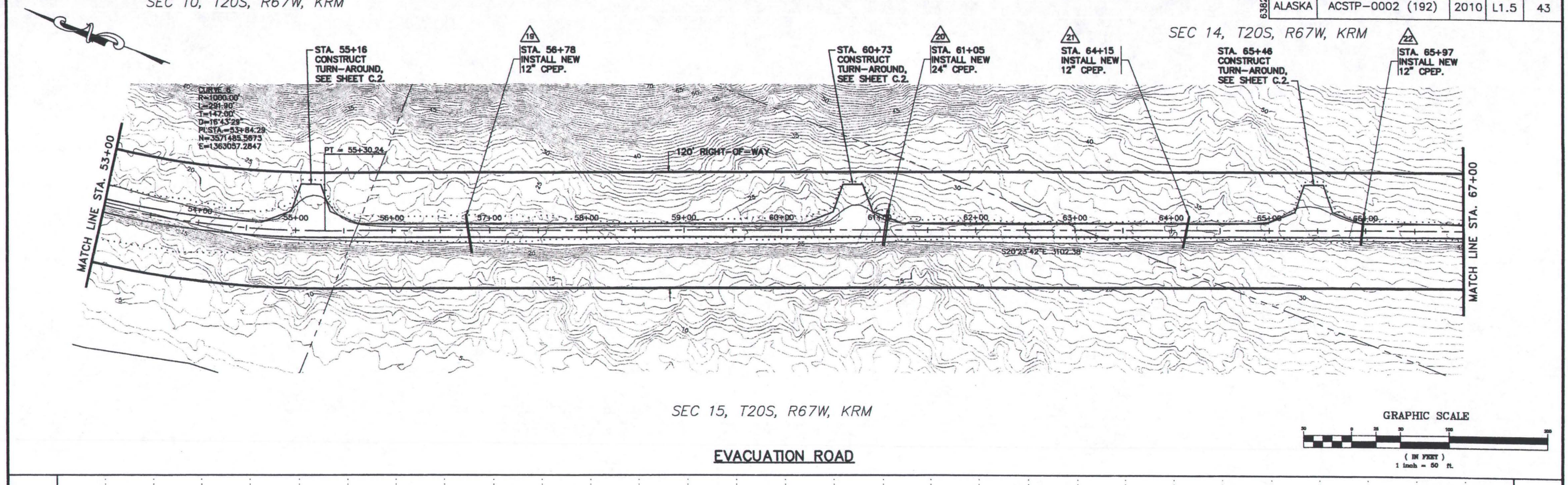
PLAN & PROFILE
EVACUATION ROAD
STA. 41+00 TO 53+00

STATE OF ALASKA
49TH
MARK ALDER
CE 9997
REGISTERED PROFESSIONAL ENGINEER

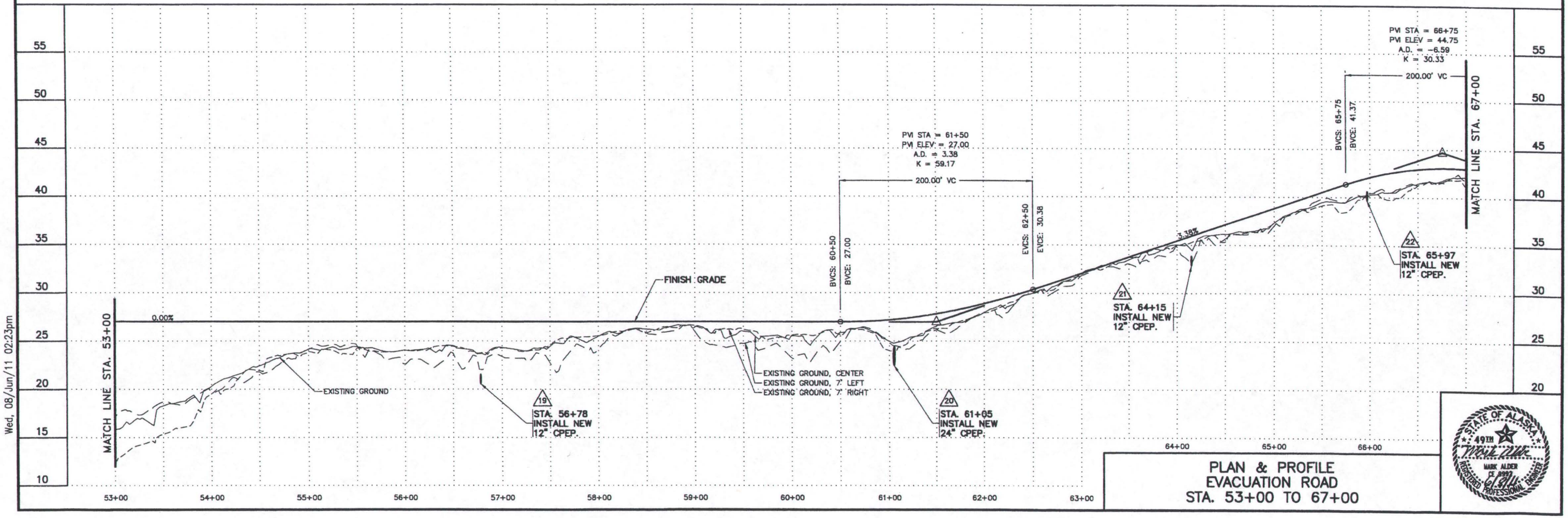
Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.5	43

63825



EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 53+00 TO 67+00

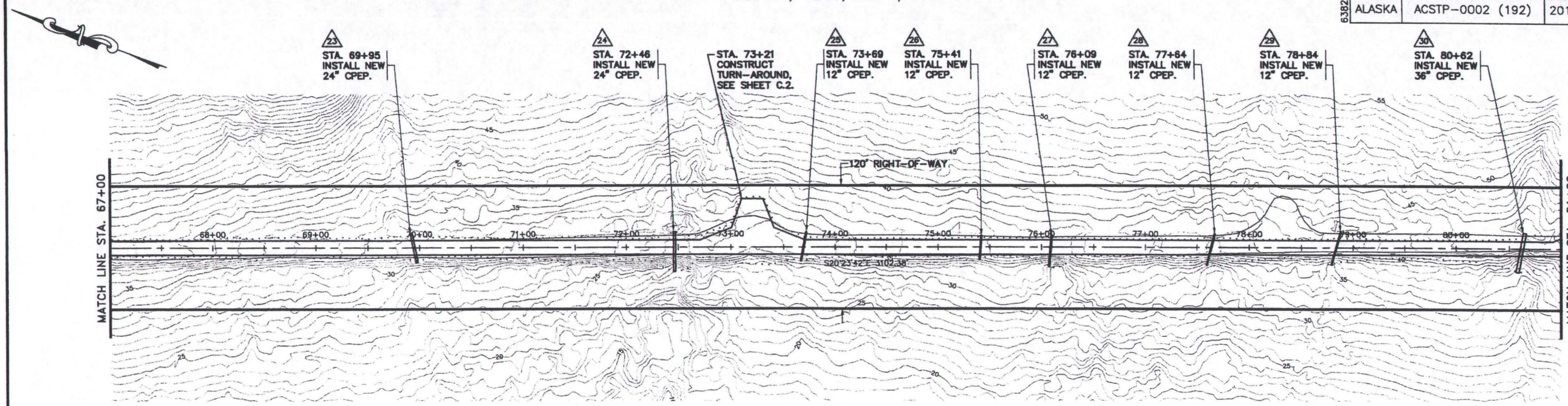
STATE OF ALASKA 49TH MARK ALDER REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.6

SEC 14, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.6	43

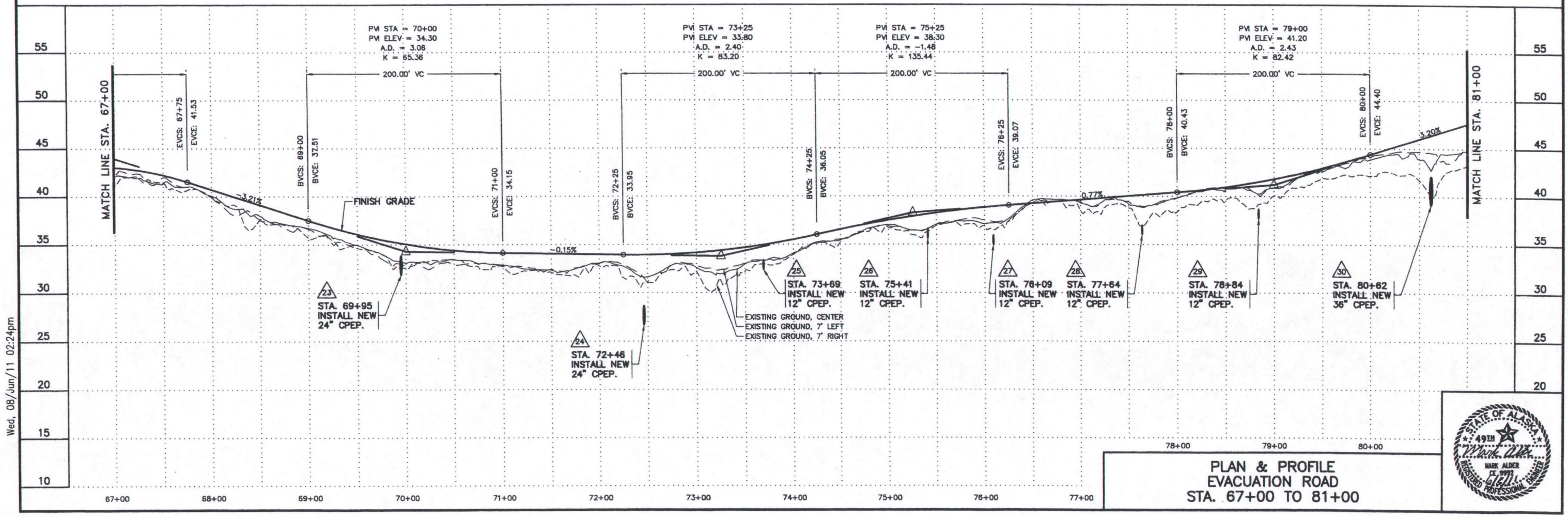
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:24pm

PLAN & PROFILE
EVACUATION ROAD
STA. 67+00 TO 81+00

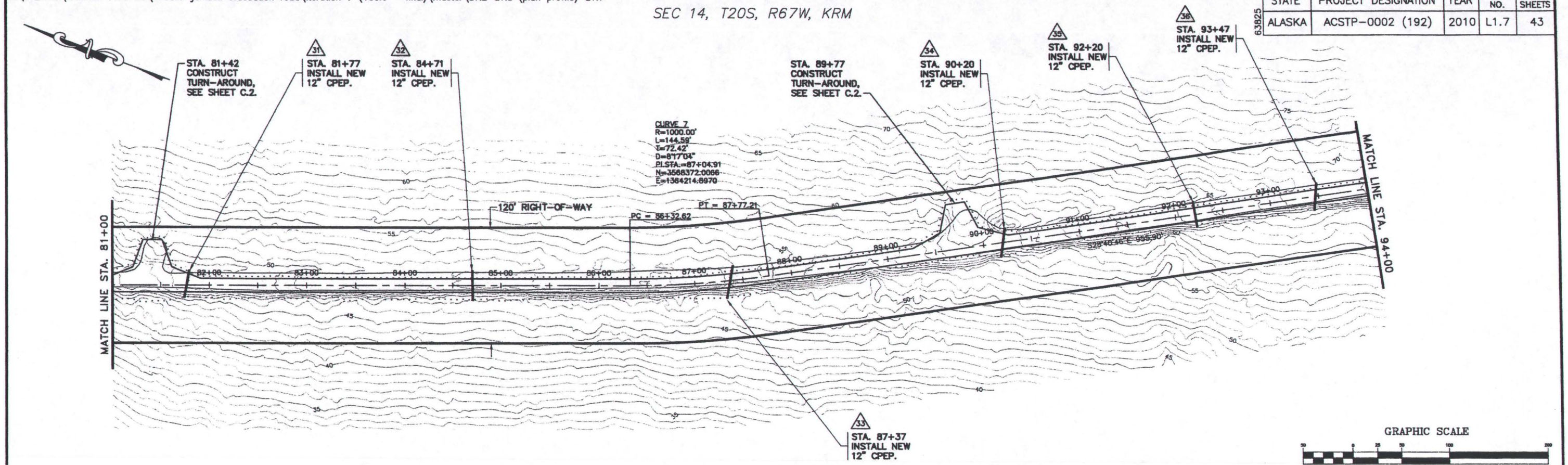
STATE OF ALASKA 49TH MARK ALDER CE-9997 REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.7

SEC 14, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.7	43

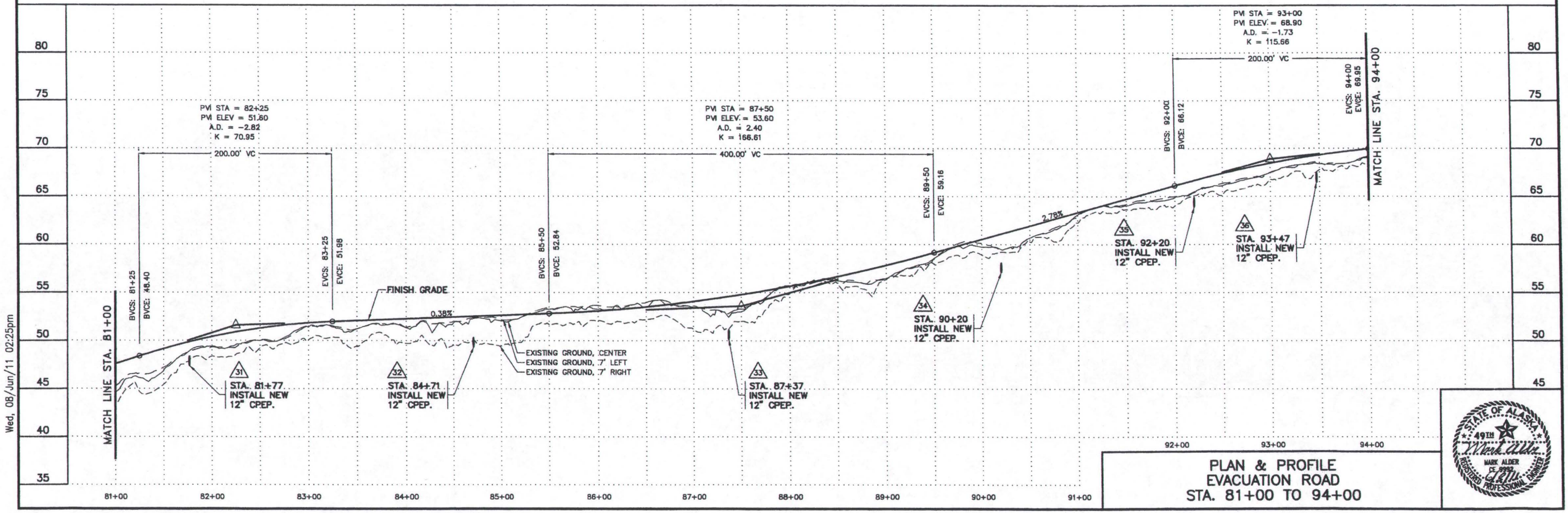
63825



EVACUATION ROAD

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.



PLAN & PROFILE
EVACUATION ROAD
STA. 81+00 TO 94+00

STATE OF ALASKA 49TH MARK ALDER REGISTERED PROFESSIONAL ENGINEER

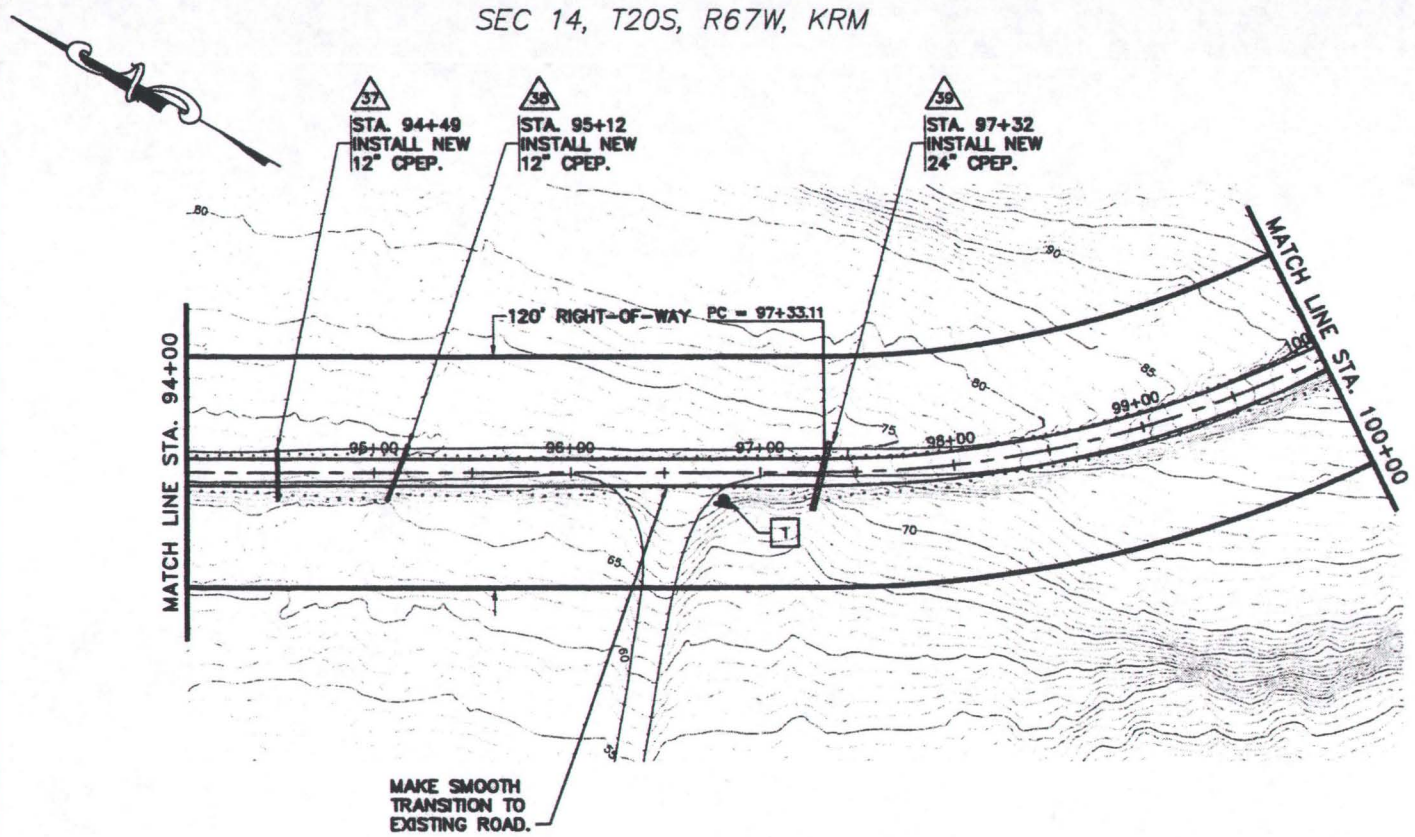
Wed, 08/Jun/11 02:25pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.2-L1.8 (plan profile)-L1.8

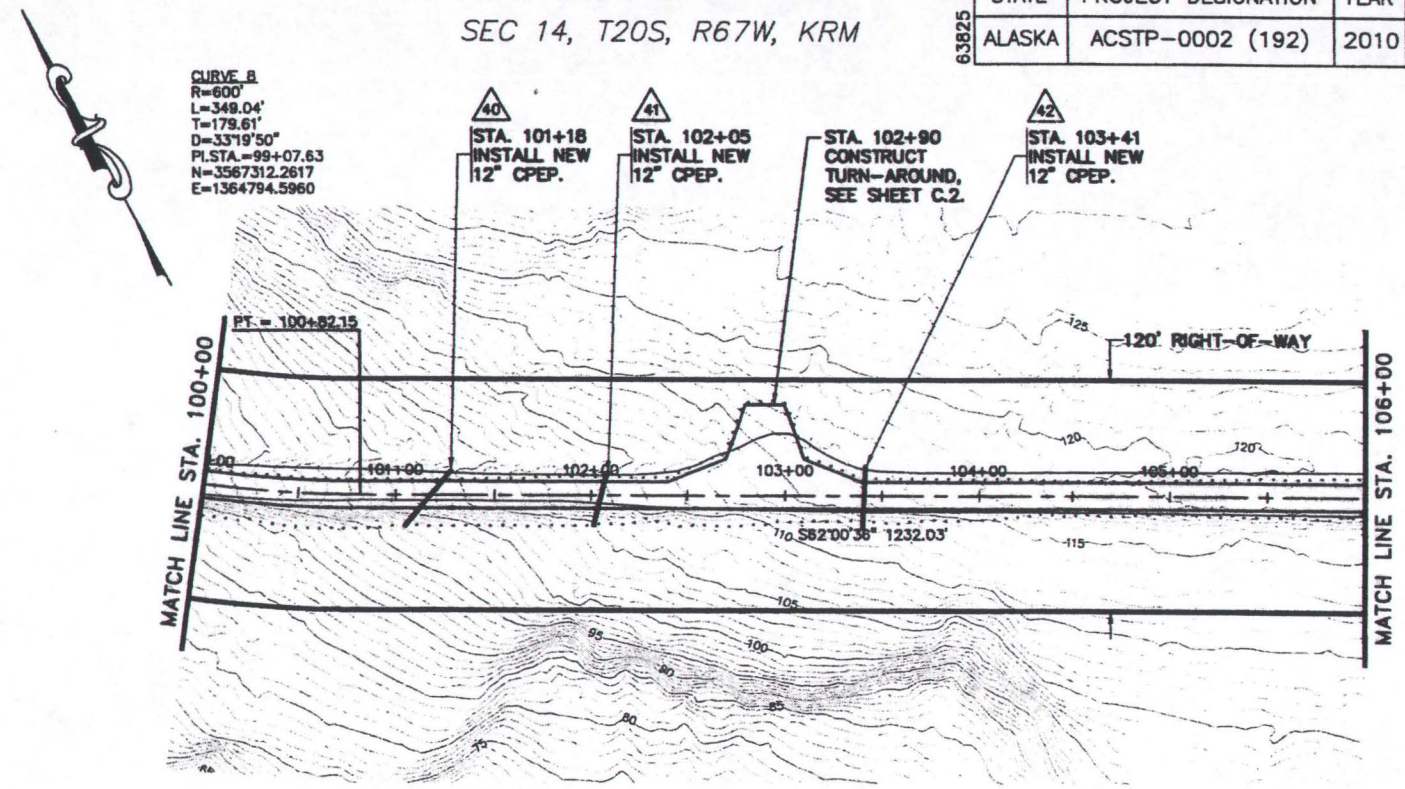
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.8	43

63825

SEC 14, T20S, R67W, KRM



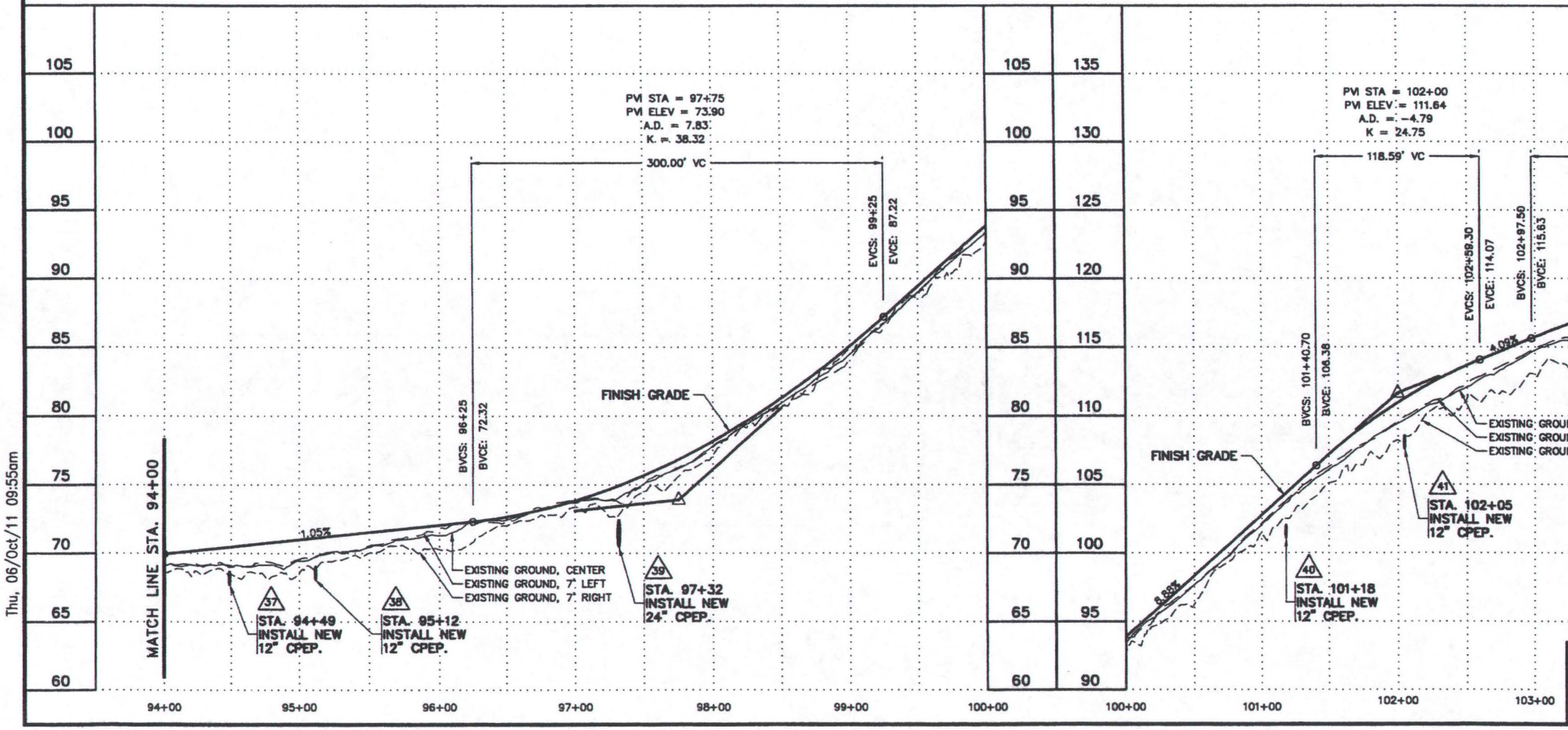
SEC 14, T20S, R67W, KRM



GRAPHIC SCALE

(IN FEET)
1 inch = 60 ft.

EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 94+00 TO 106+00

STATE OF ALASKA
49TH
MARK ALDER
CE-9982
REGISTERED PROFESSIONAL ENGINEER

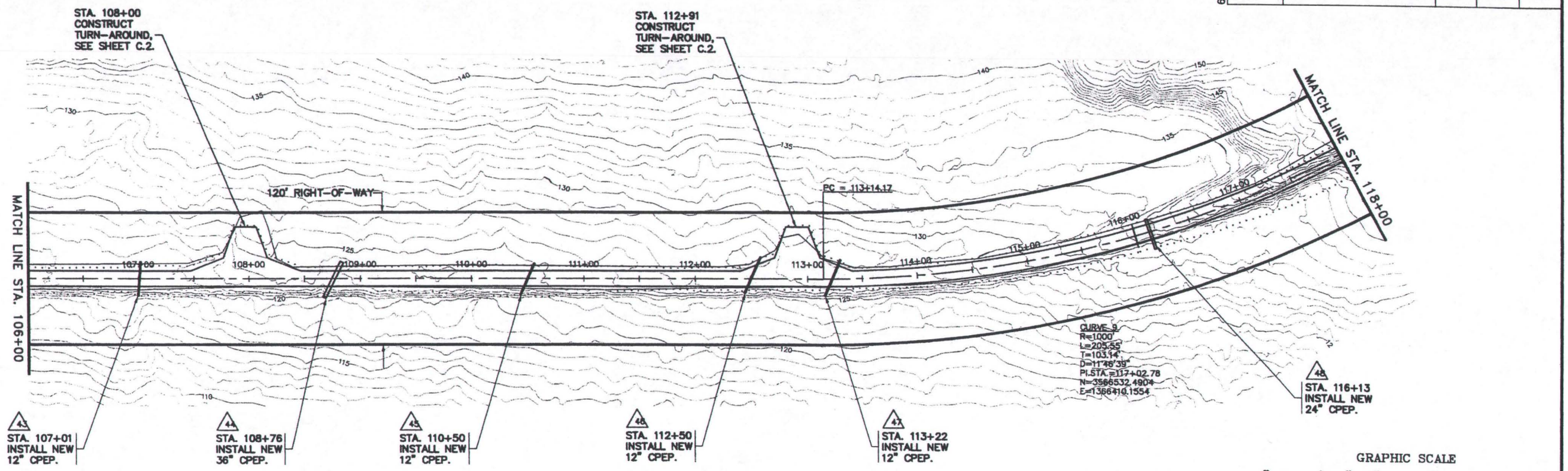
Thu, 06/Oct/11 09:55am

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.9

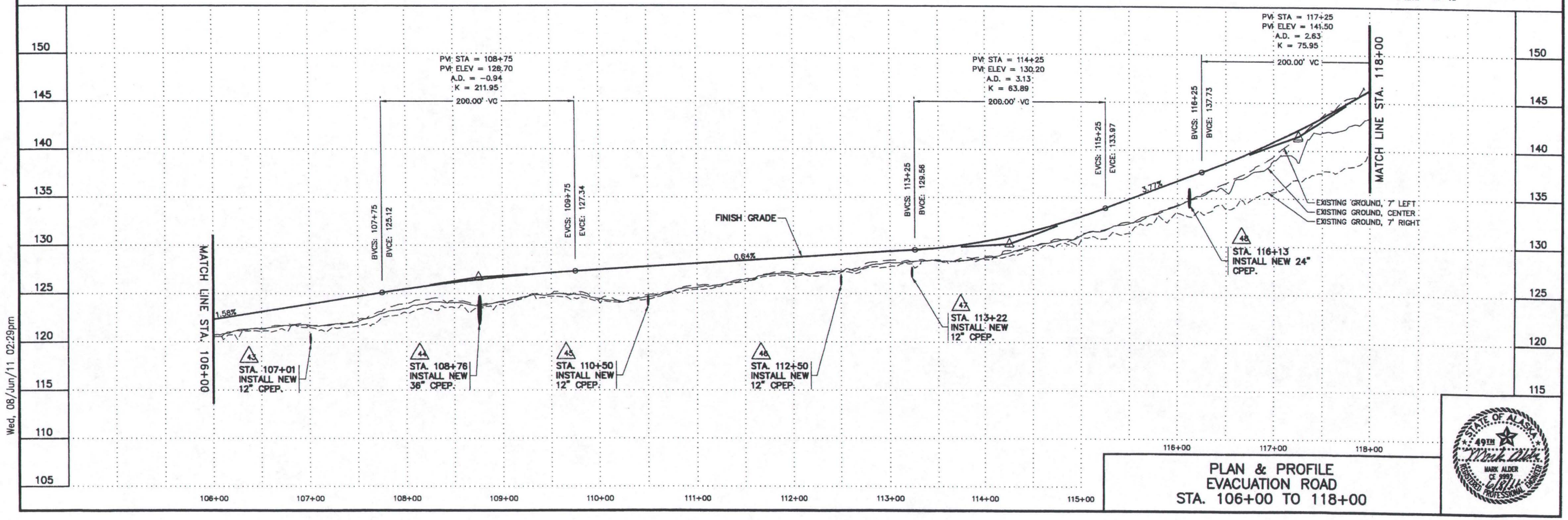
SEC 14, T20S, R67W, KRM

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.9	43



EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 106+00 TO 118+00

STATE OF ALASKA
49TH
MARK ALDER
CE 9997
REGISTERED PROFESSIONAL ENGINEER

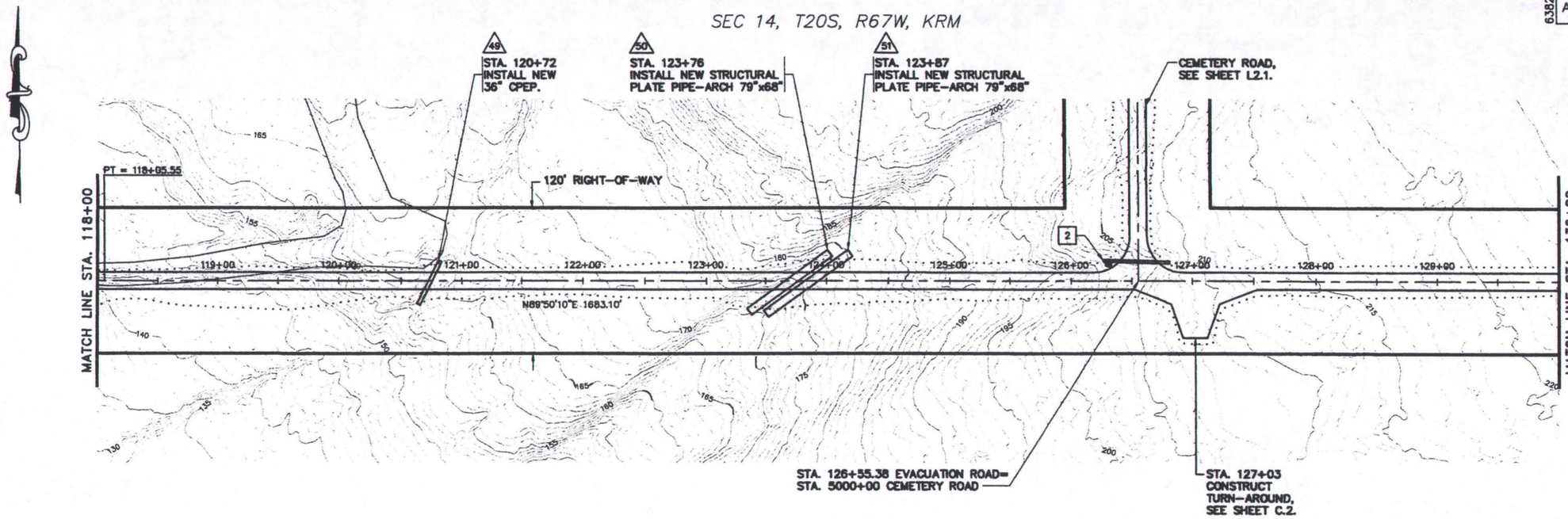
Wed, 08/Jun/11 02:29pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.10

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.10	43

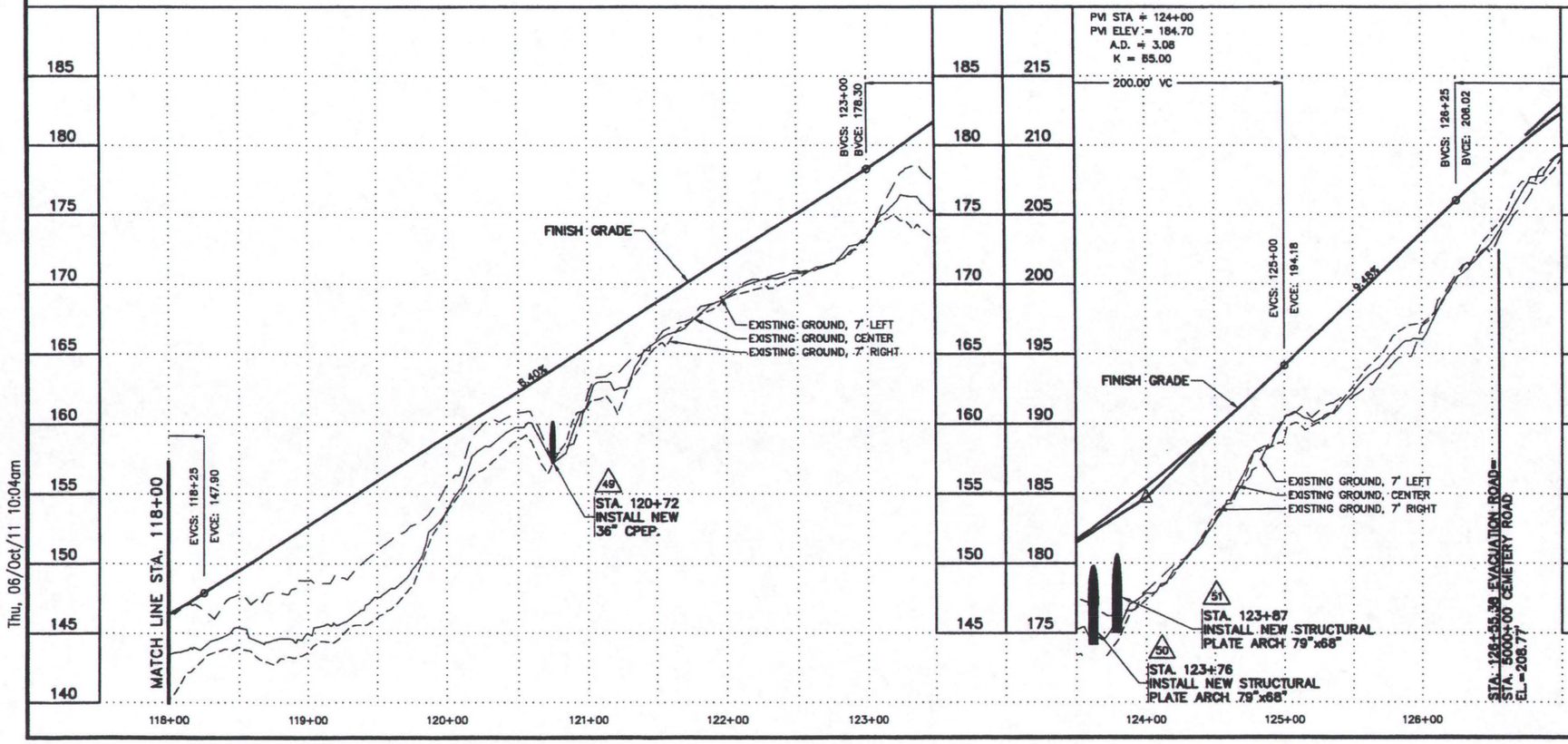
SEC 14, T20S, R67W, KRM



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Thu, 06/Oct/11 10:04am

PLAN & PROFILE
EVACUATION ROAD
STA. 118+00 TO 130+00

STATE OF ALASKA
49TH
MARK ALDER
15/6/11
REGISTERED PROFESSIONAL ENGINEER

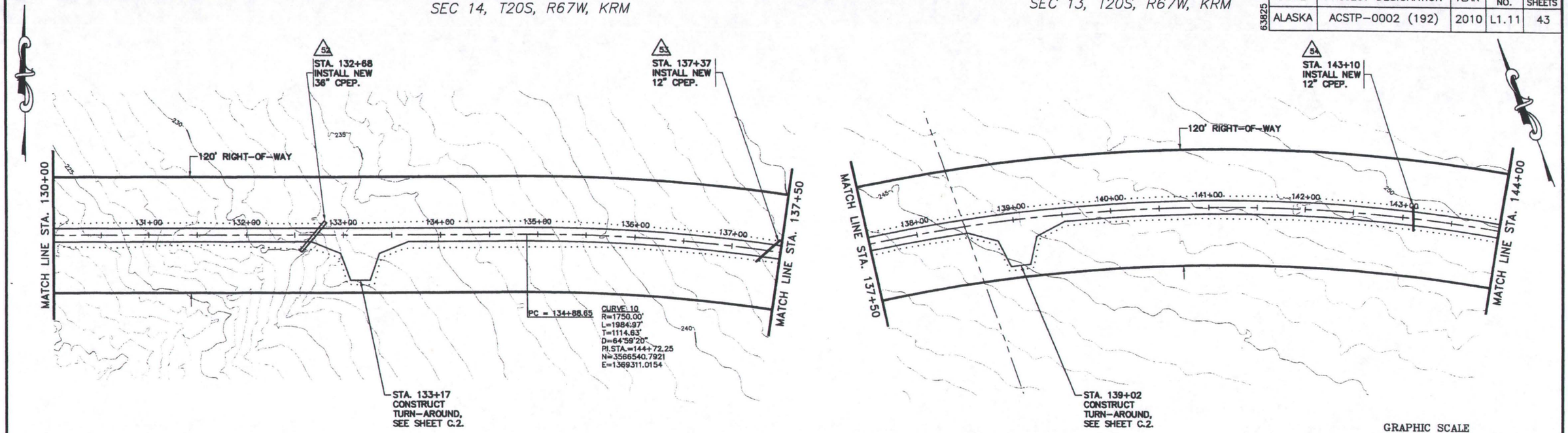
Z:\AA_Jobs\kawerak-1438-05\1438.8 garnbell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.11

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.11	43

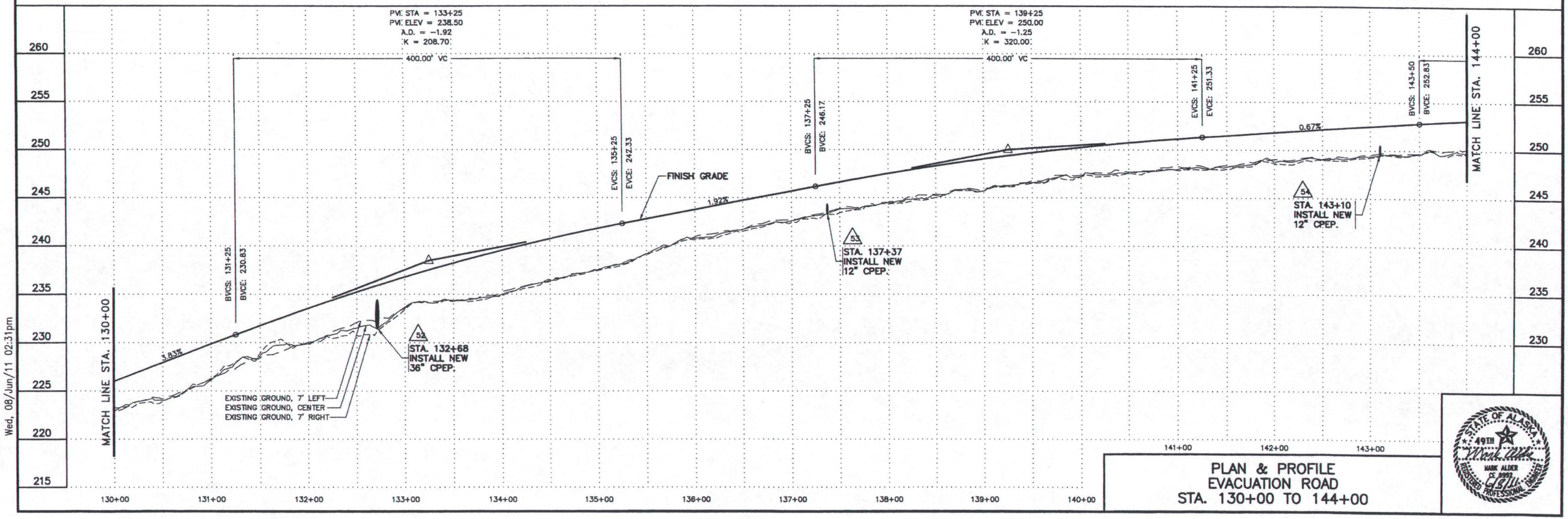
63825

SEC 14, T20S, R67W, KRM

SEC 13, T20S, R67W, KRM



EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 130+00 TO 144+00

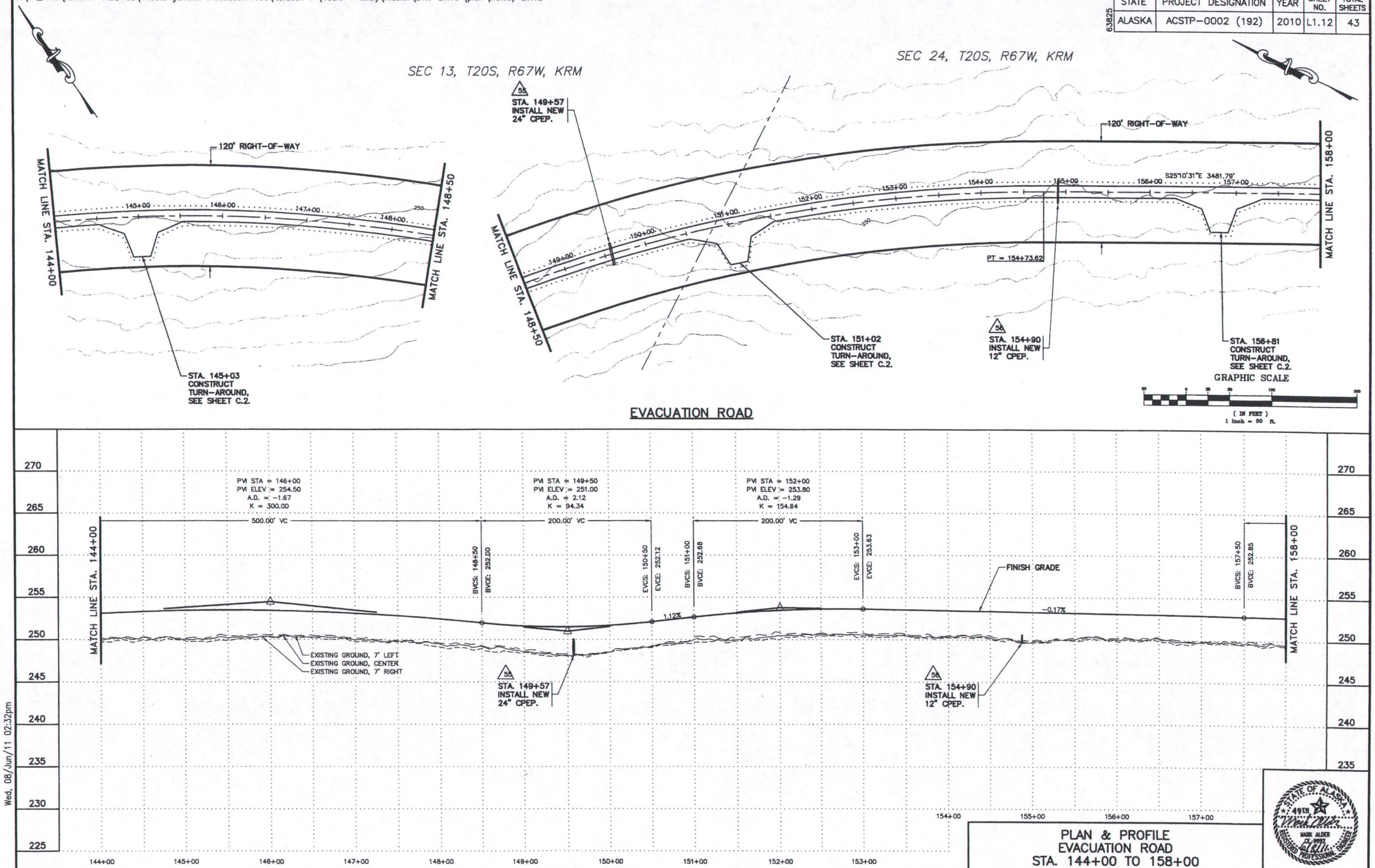
STATE OF ALASKA
49TH
MARK ALDER
CE 9999
REGISTERED PROFESSIONAL ENGINEER

Wed, 08/Jun/11 02:31pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.12

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.12	43

63825



PLAN & PROFILE
EVACUATION ROAD
STA. 144+00 TO 158+00

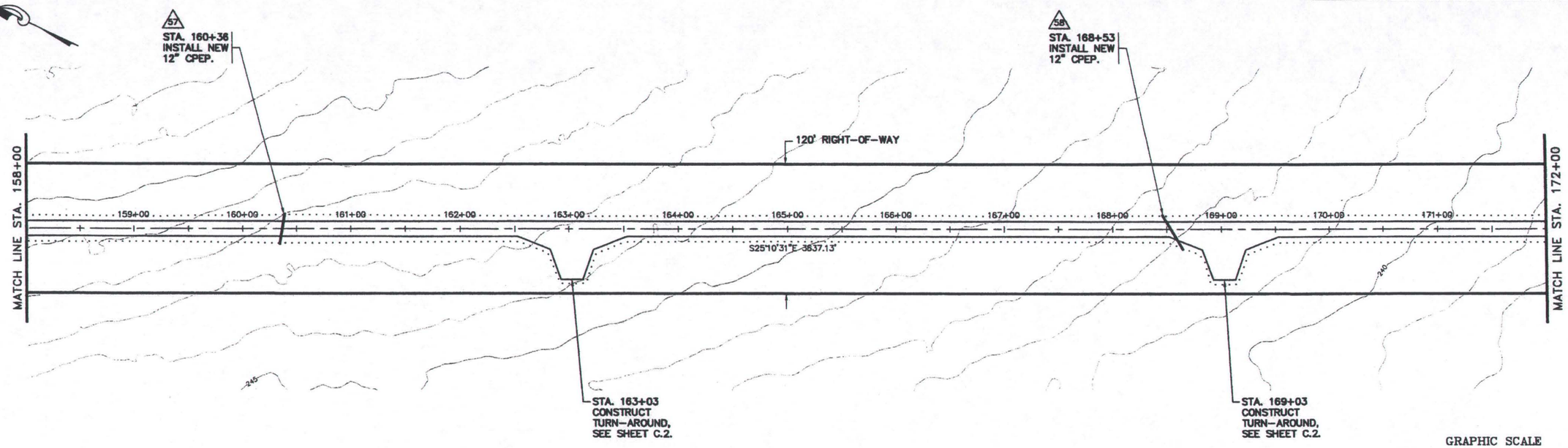
Wed, 08/Jun/11 02:32pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.13

SEC 24, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.13	43

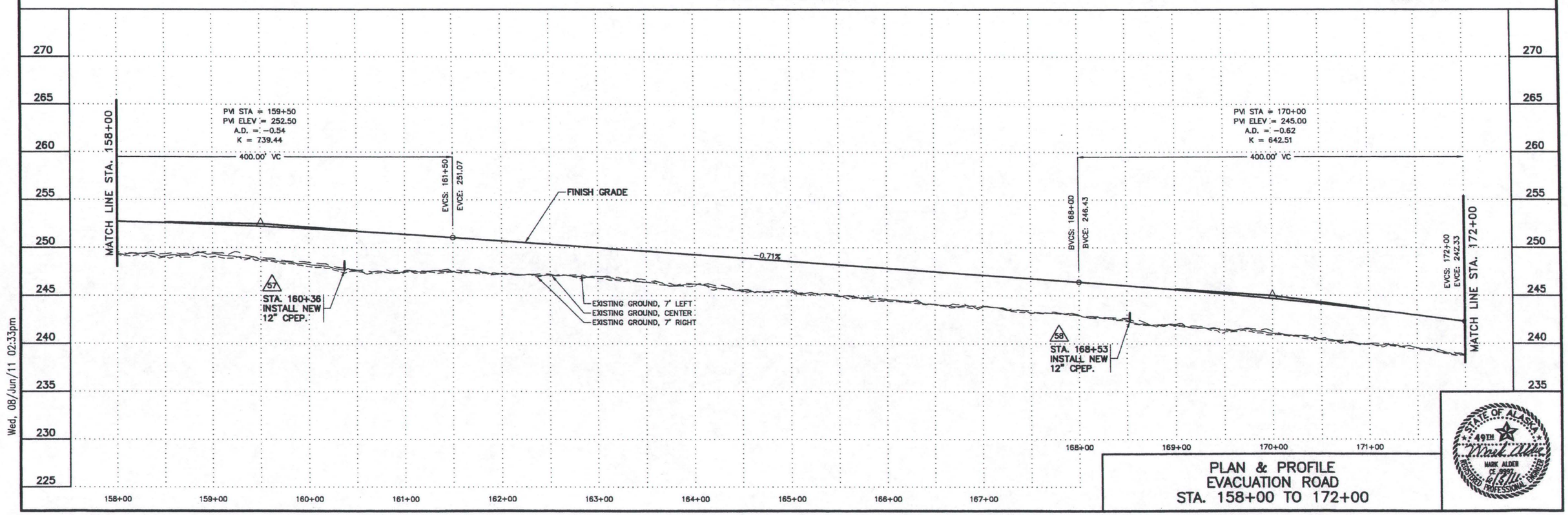
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:33pm

PLAN & PROFILE
EVACUATION ROAD
STA. 158+00 TO 172+00

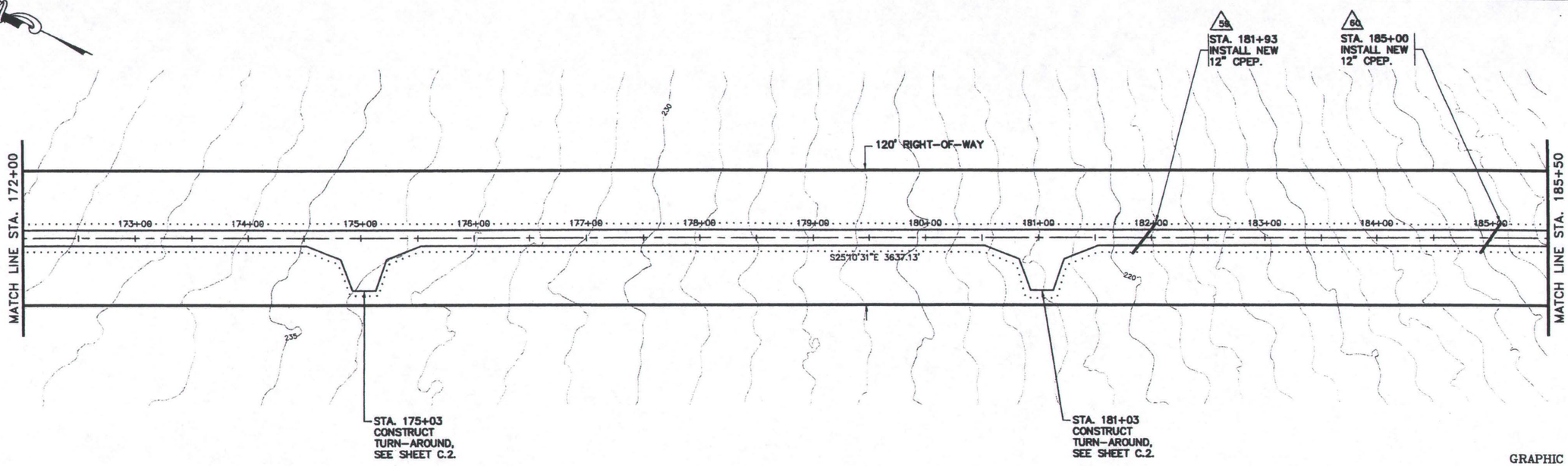
STATE OF ALASKA
49TH
MARK ALDER
CE 8771
REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 garnbell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.14

SEC 24, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.14	43

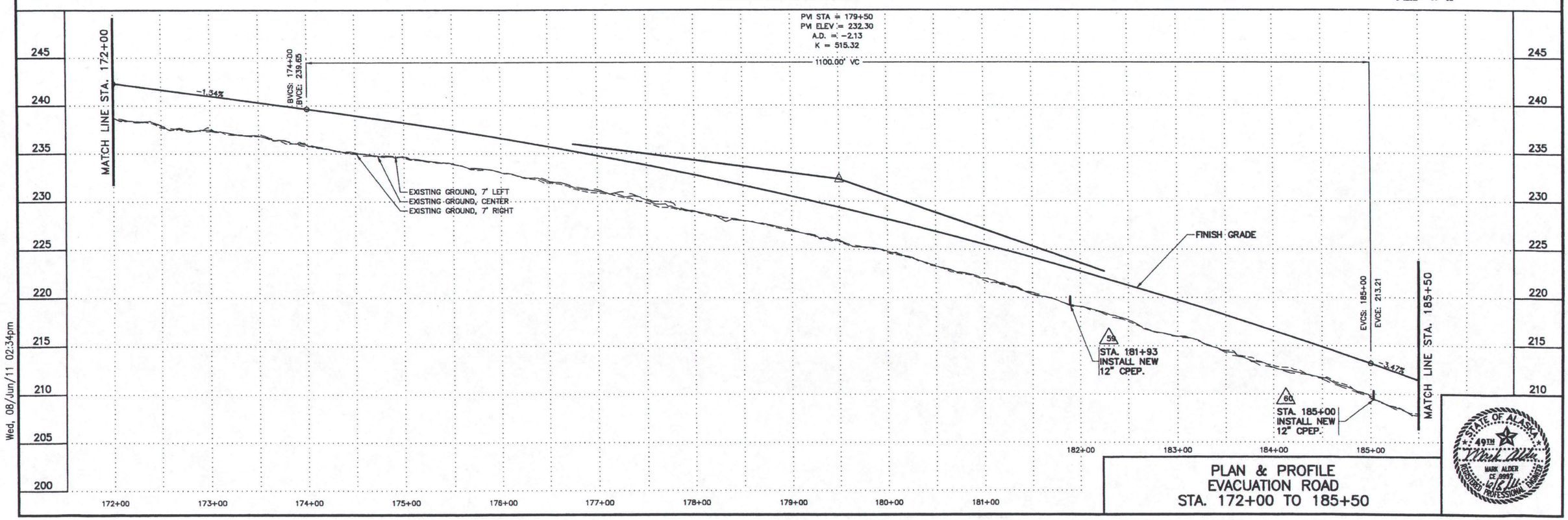
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:34pm

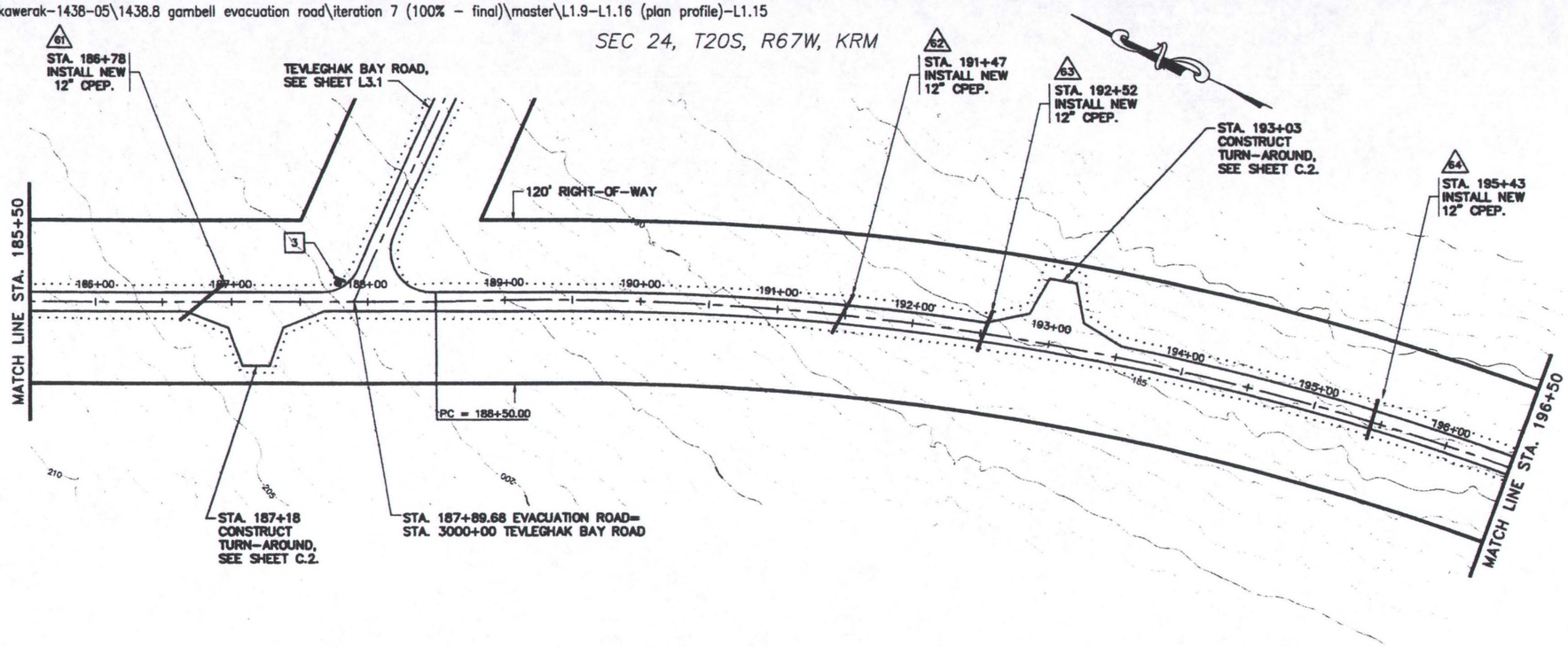
PLAN & PROFILE
EVACUATION ROAD
STA. 172+00 TO 185+50

STATE OF ALASKA
49TH
MARK ALDER
CE 9997
REGISTERED PROFESSIONAL ENGINEER
6/8/11

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.15

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.15	43

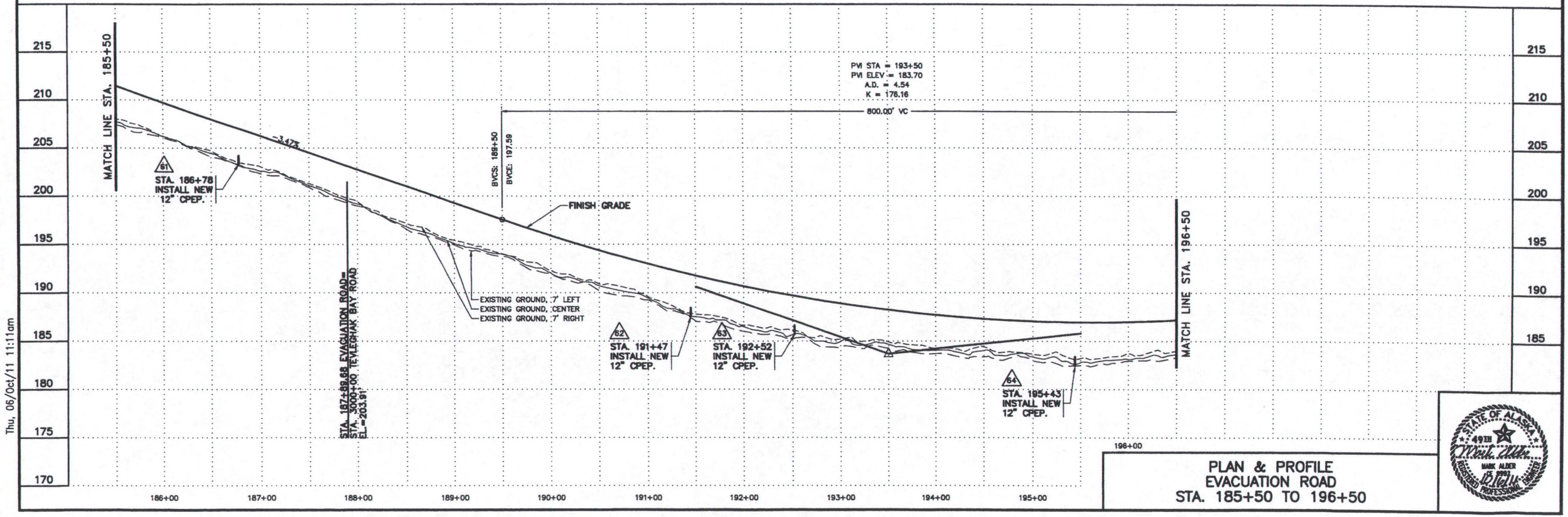
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Thu, 06/Oct/11 11:11am

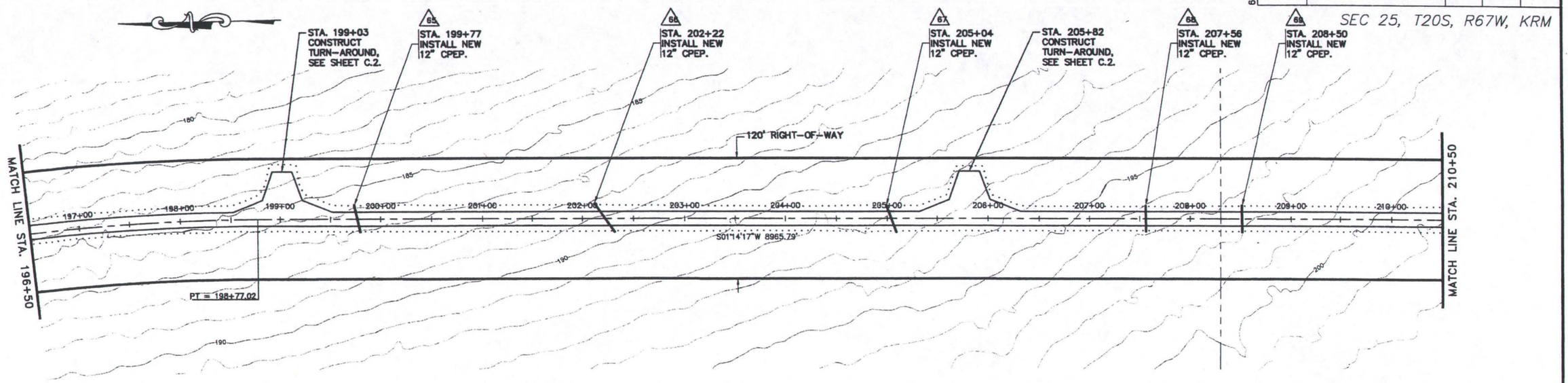
PLAN & PROFILE
EVACUATION ROAD
STA. 185+50 TO 196+50

STATE OF ALASKA 49TH MARK ALDER REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.9-L1.16 (plan profile)-L1.16

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.16	43

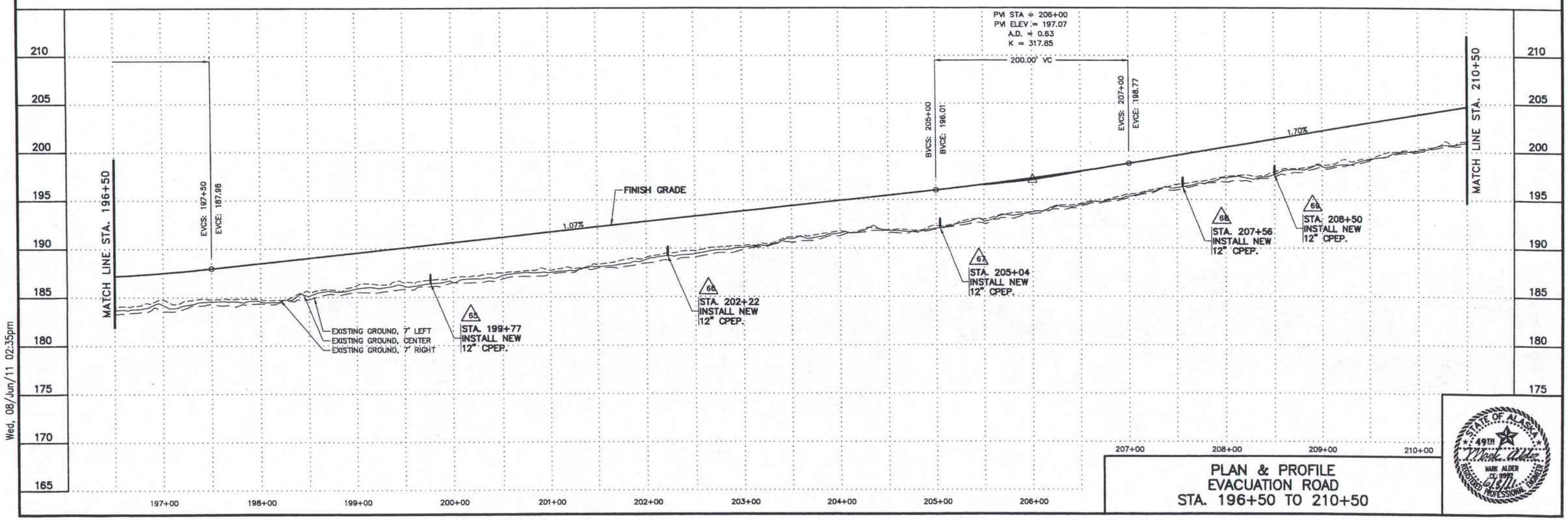
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:35pm

PLAN & PROFILE
EVACUATION ROAD
STA. 196+50 TO 210+50

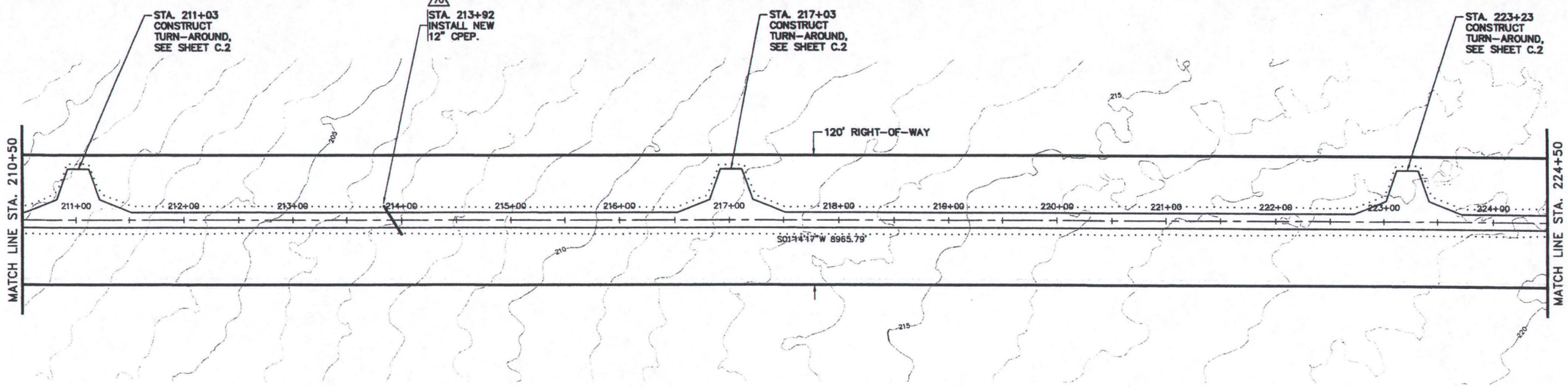
STATE OF ALASKA
49TH
MARK ALDER
CE 9971
REGISTERED PROFESSIONAL ENGINEER
6/8/11

Z:\AA_Jobs\kawerak-1438-05\1438.8 garnbell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.17

SEC 25, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.17	43

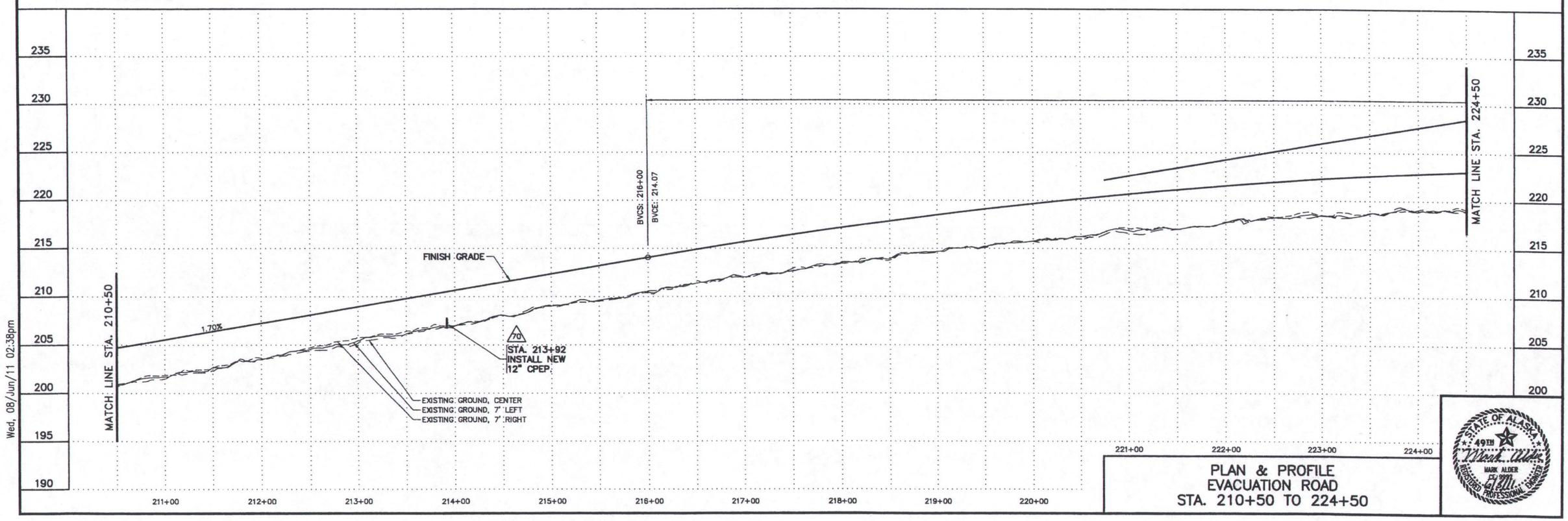
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:38pm

PLAN & PROFILE
EVACUATION ROAD
STA. 210+50 TO 224+50

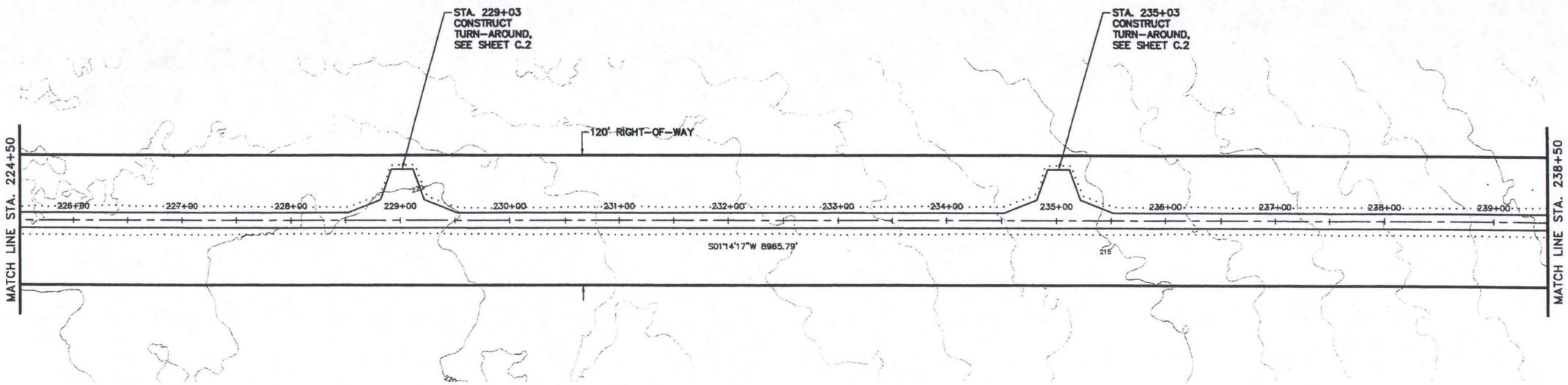
STATE OF ALASKA
49TH
MARK ALDER
CE 9971
REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.18

SEC 25, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.18	43

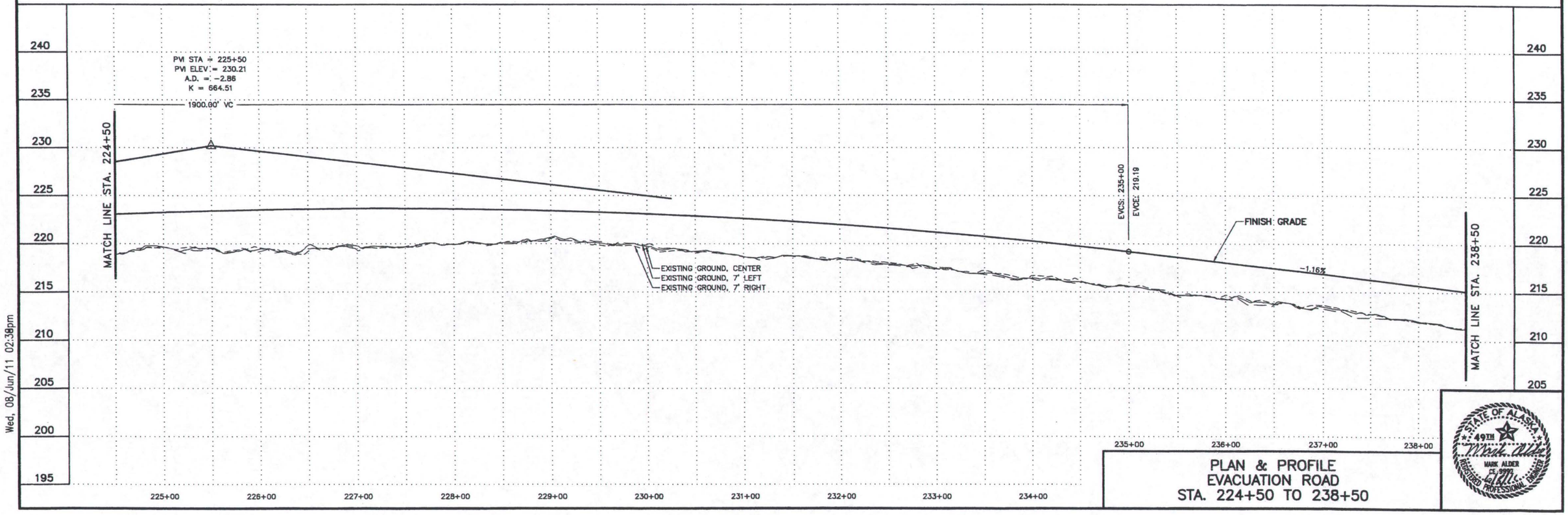
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 224+50 TO 238+50

STATE OF ALASKA
49TH
MARK ALDER
CE-9992
REGISTERED PROFESSIONAL ENGINEER

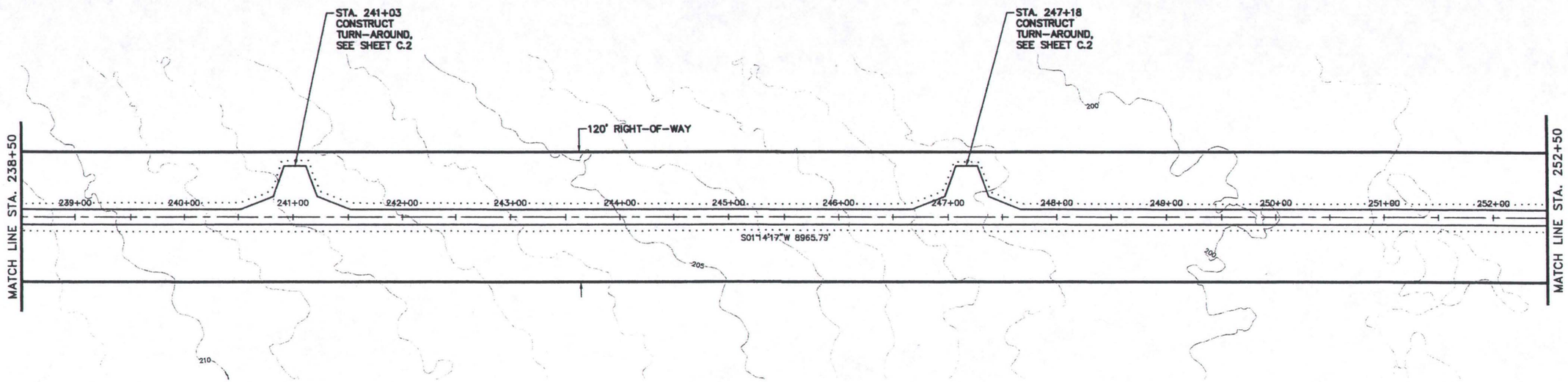
Wed, 08/Jun/11 02:38pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.19

SEC 25, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.19	43

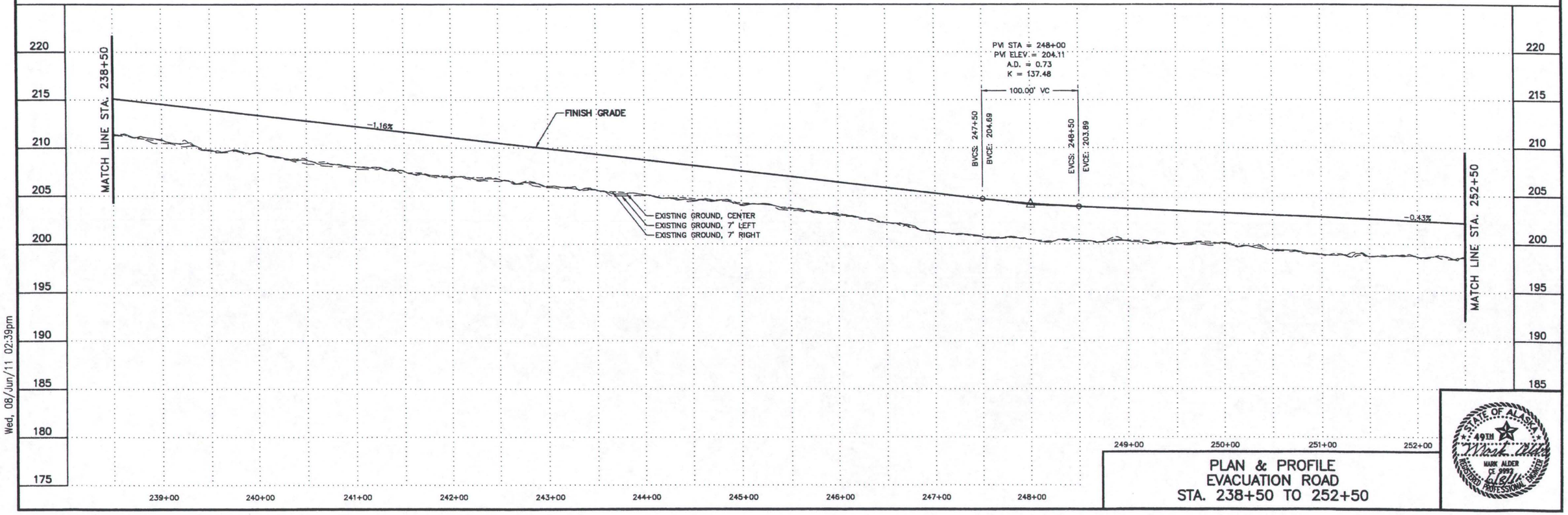
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:39pm

PLAN & PROFILE
EVACUATION ROAD
STA. 238+50 TO 252+50

STATE OF ALASKA
49TH
MARK ALDER
CE 9992
REGISTERED PROFESSIONAL ENGINEER

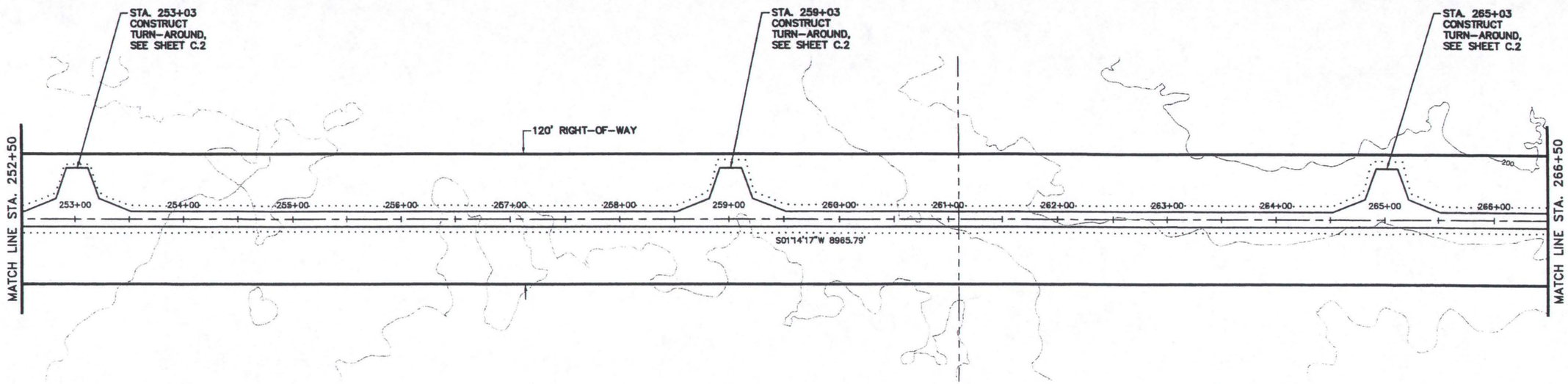
Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.20

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.20	43

63825

SEC 25, T20S, R67W, KRM

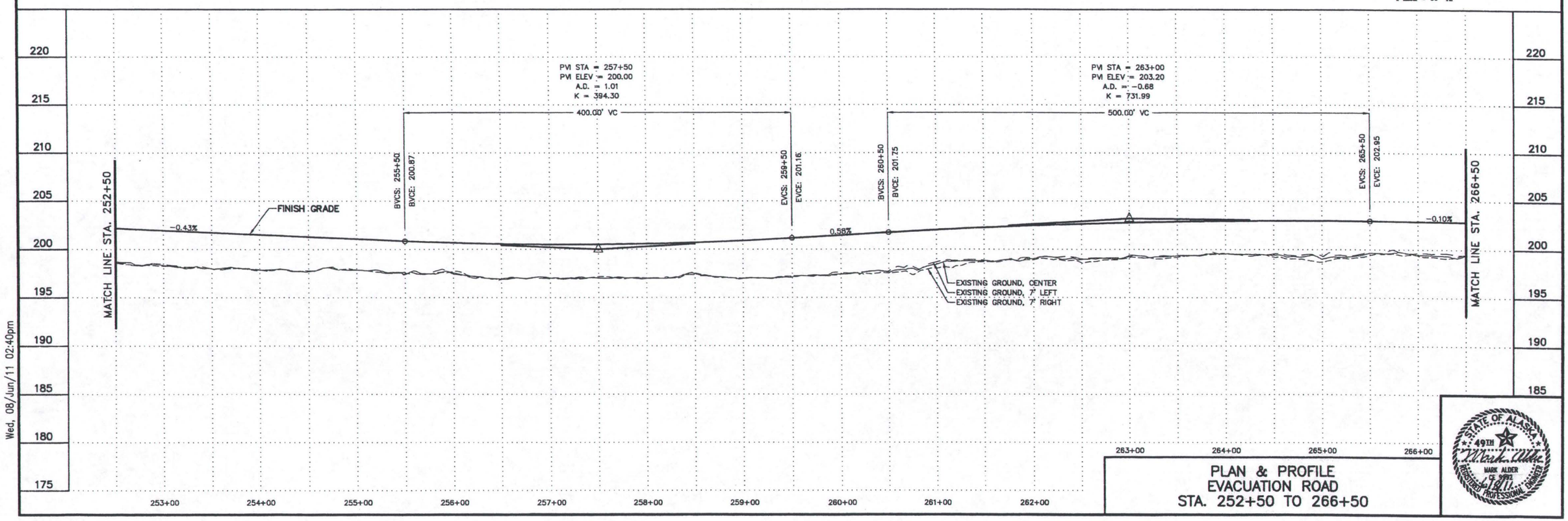
SEC 36, T20S, R67W, KRM



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:40pm

PLAN & PROFILE
EVACUATION ROAD
STA. 252+50 TO 266+50

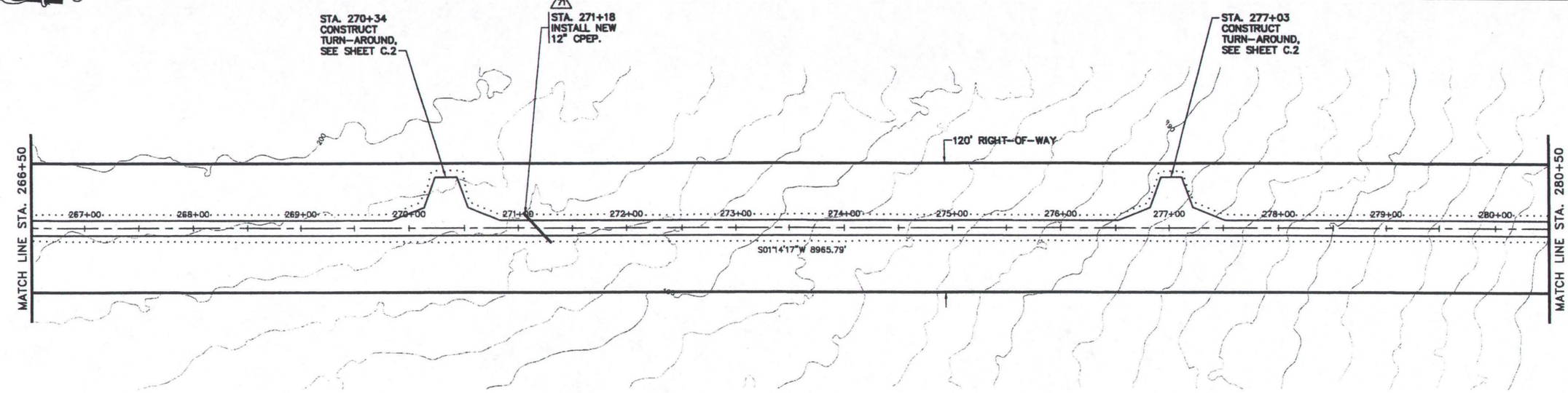
STATE OF ALASKA
49TH
MARK ALDER
CE 9893
REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.21

SEC 36, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.21	43

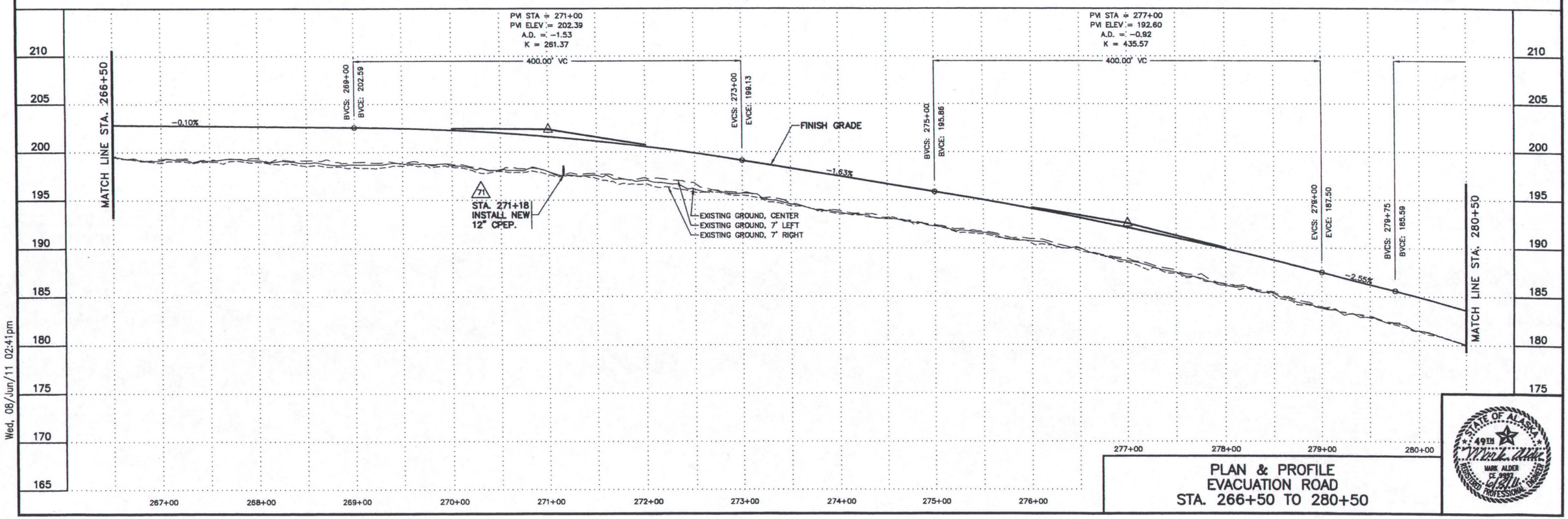
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 266+50 TO 280+50

STATE OF ALASKA
49TH
MARK ALDER
CE 9927
REGISTERED PROFESSIONAL ENGINEER

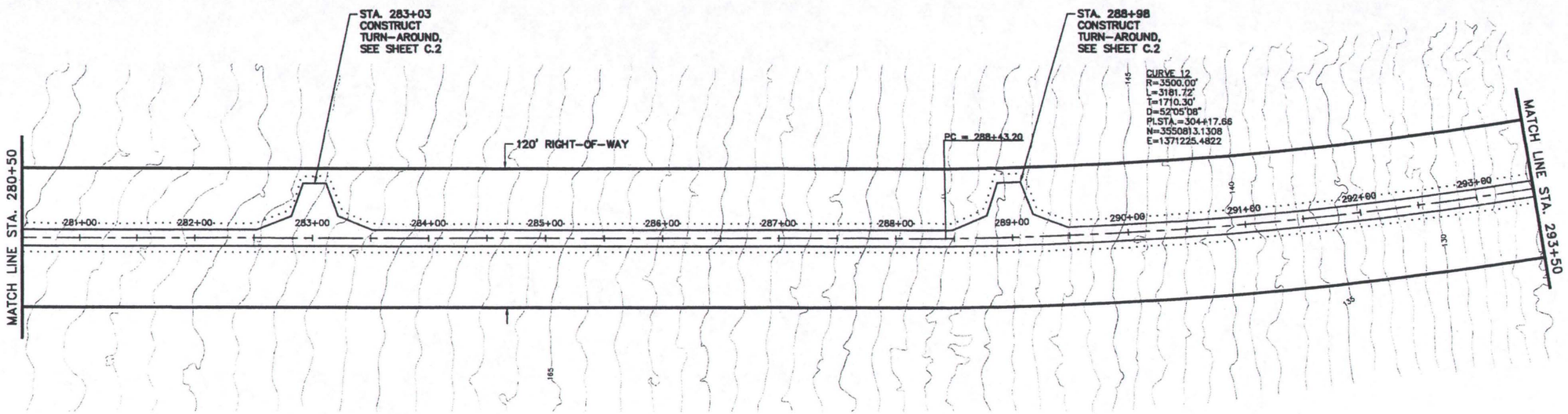
Wed, 08/Jun/11 02:41pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.22

SEC 36, T20S, R67W, KRM

63825

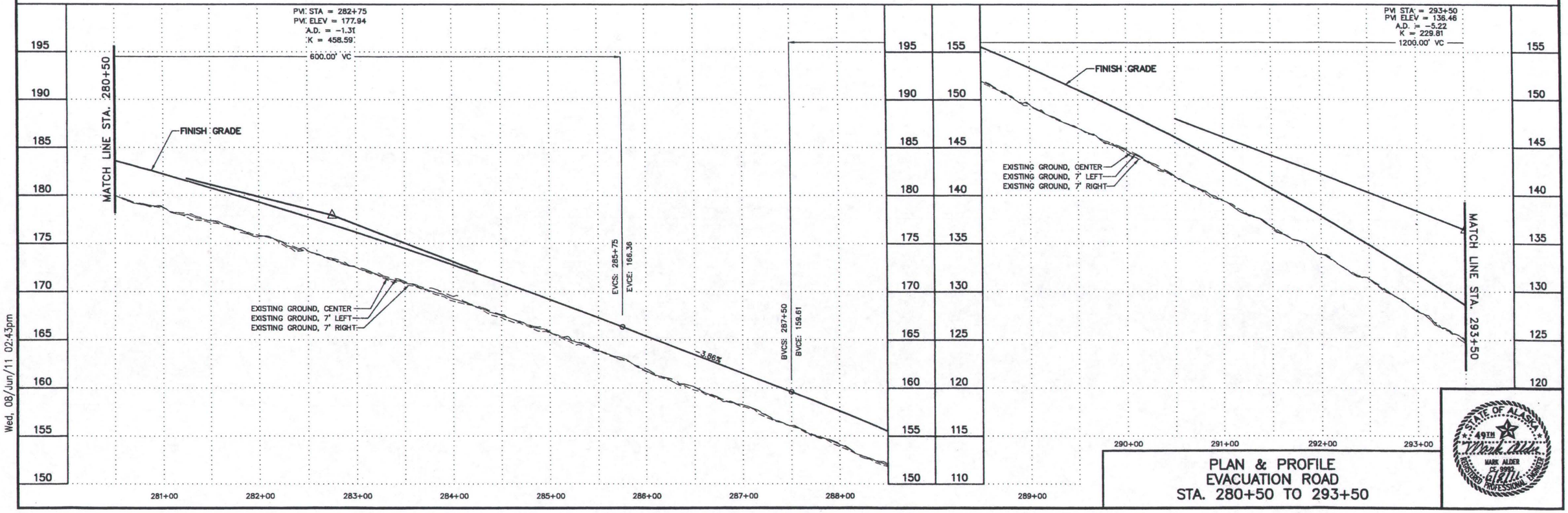
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.22	43



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 280+50 TO 293+50

STATE OF ALASKA
49TH
MARK ALDER
CE-9992
REGISTERED PROFESSIONAL ENGINEER

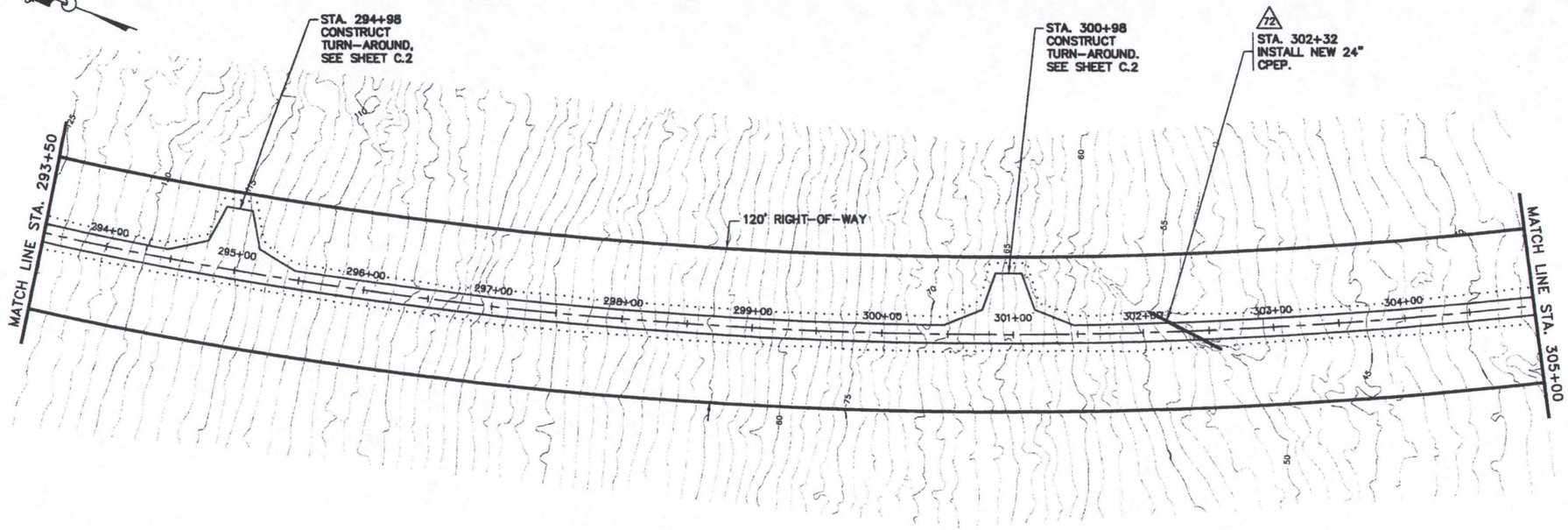
Wed, 08/Jun/11 02:43pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.23

SEC 36, T20S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.23	43

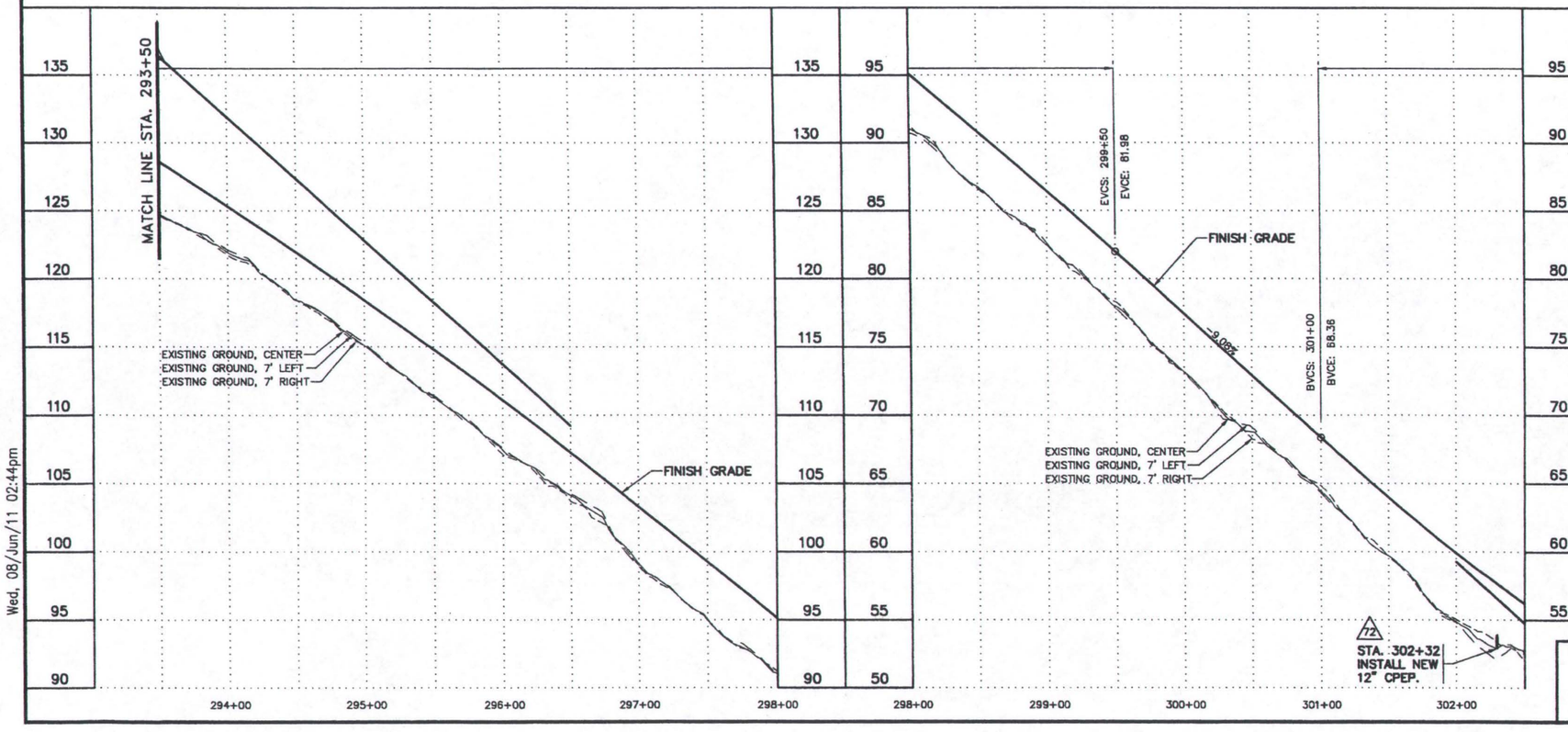
63825



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

EVACUATION ROAD



Wed, 08/Jun/11 02:44pm

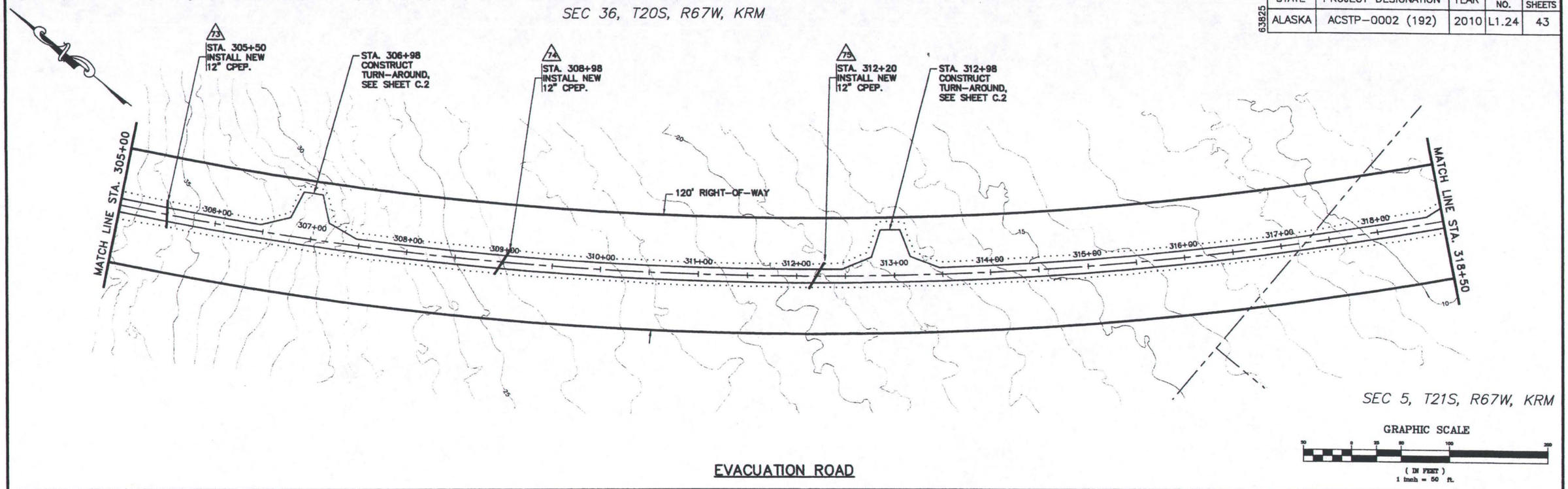
PLAN & PROFILE
EVACUATION ROAD
STA. 293+50 TO 305+00

STATE OF ALASKA
49TH
MARK ALDER
CE 9992
REGISTERED PROFESSIONAL ENGINEER

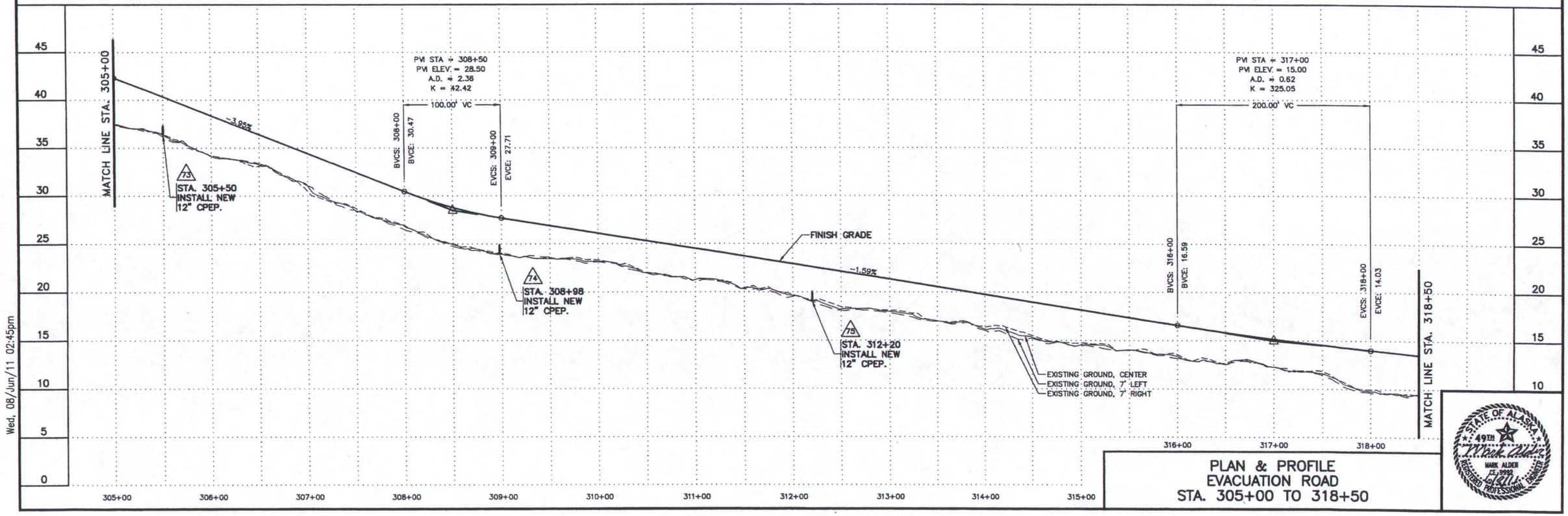
Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.24

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.24	43

63825



EVACUATION ROAD



PLAN & PROFILE
EVACUATION ROAD
STA. 305+00 TO 318+50

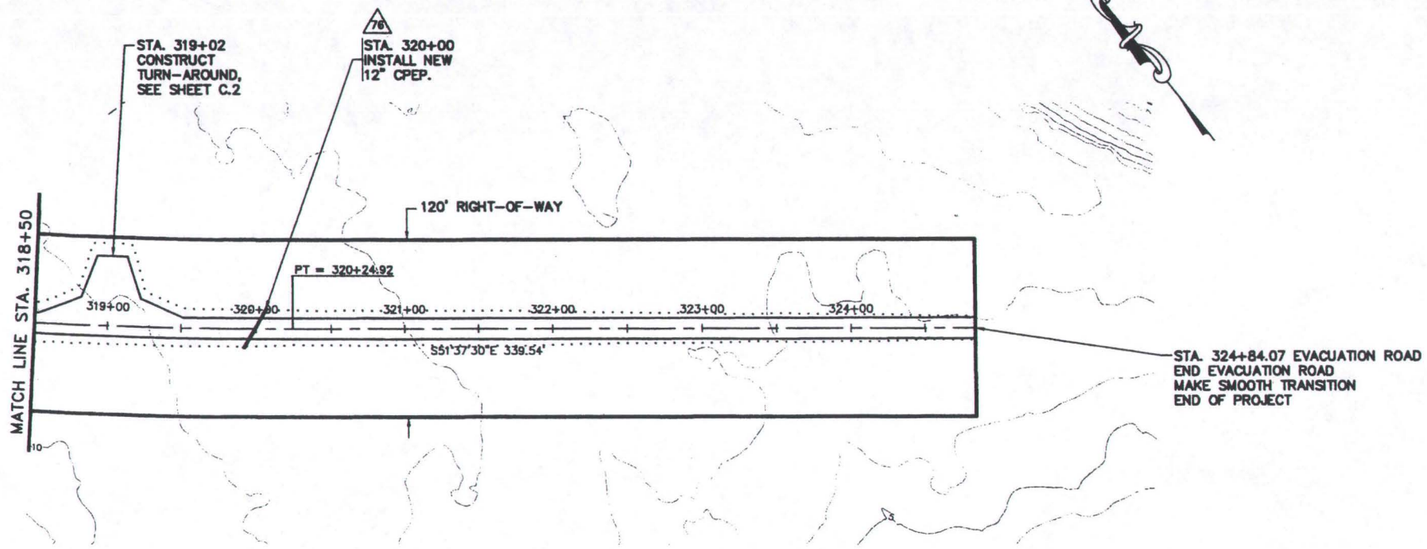
STATE OF ALASKA
49TH
MARK ALDER
CE 9990
REGISTERED PROFESSIONAL ENGINEER

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L1.17-L1.25 (plan profile)-L1.25

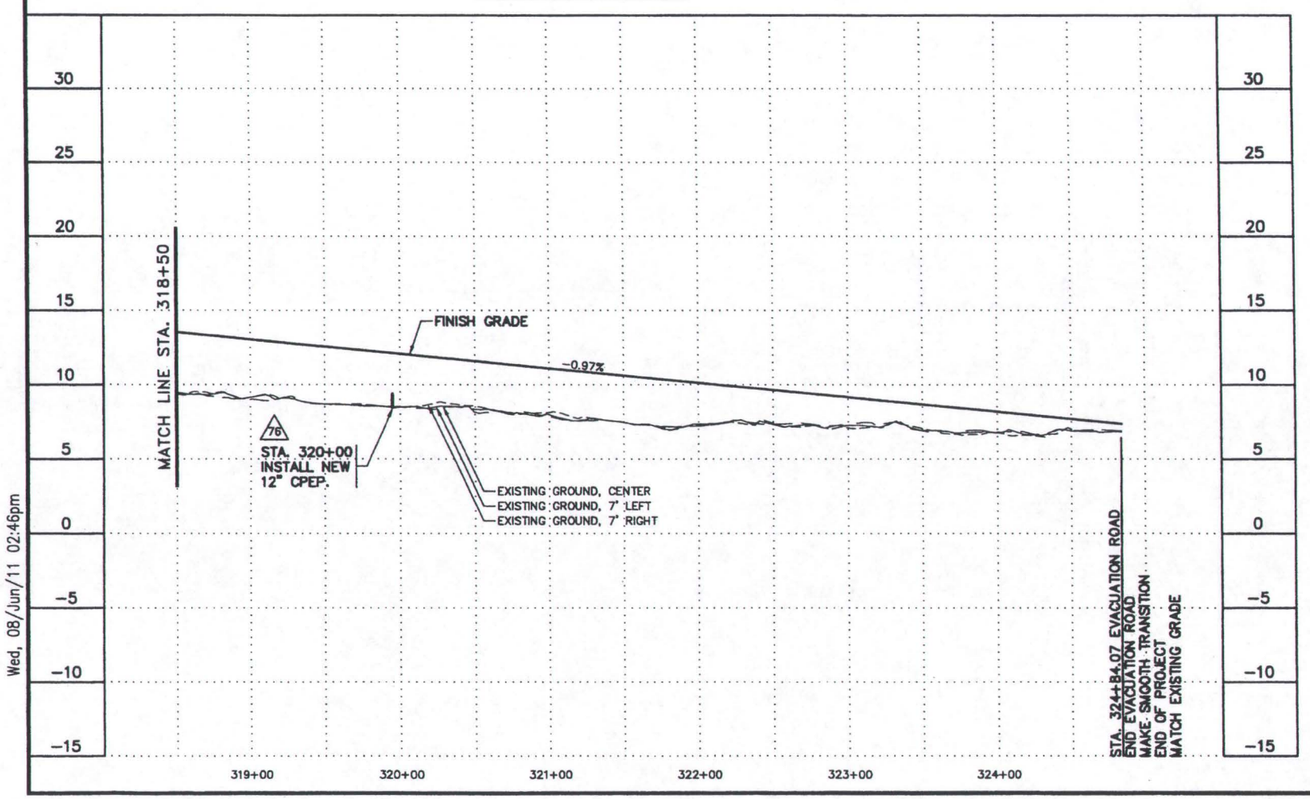
SEC 5, T21S, R67W, KRM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L1.25	43

63825



EVACUATION ROAD



Wed, 08/Jun/11 02:46pm

GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

PLAN & PROFILE
EVACUATION ROAD
STA. 318+50 TO 324+84.07

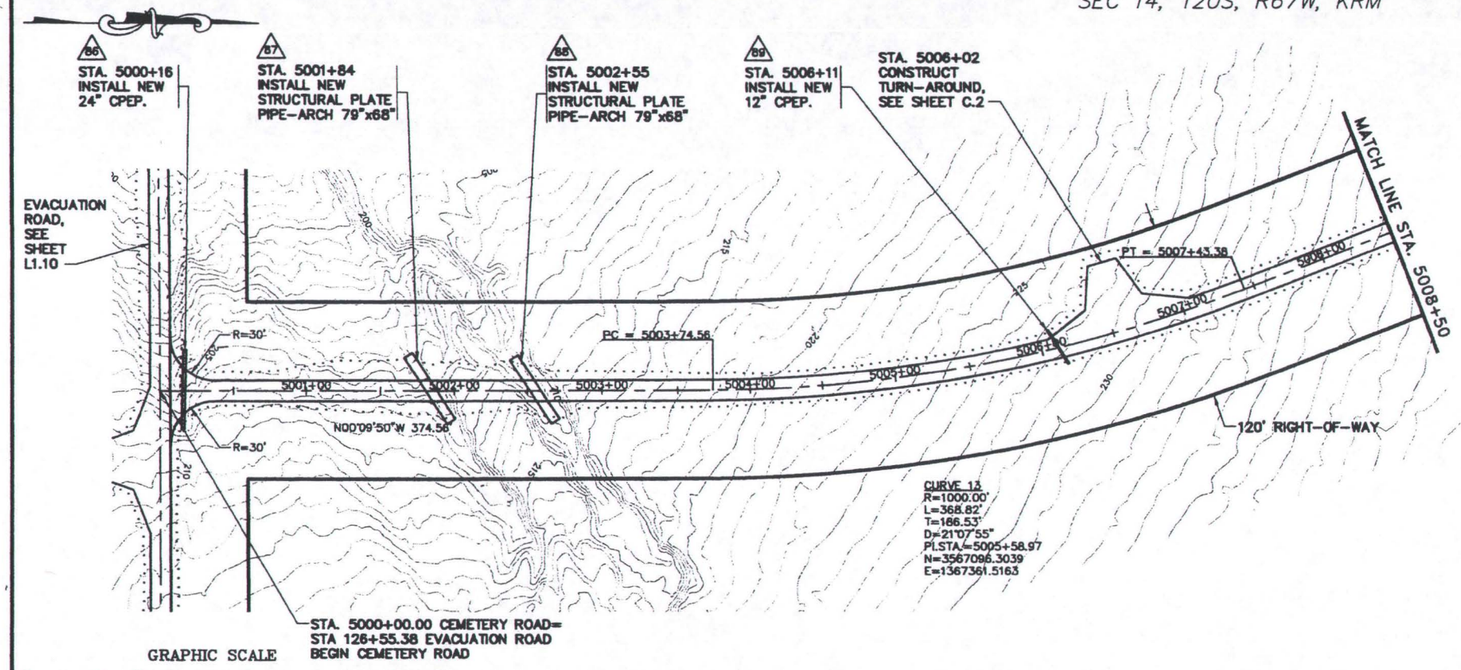
STATE OF ALASKA 49TH MARK ALDER CE 10973 REGISTERED PROFESSIONAL ENGINEER

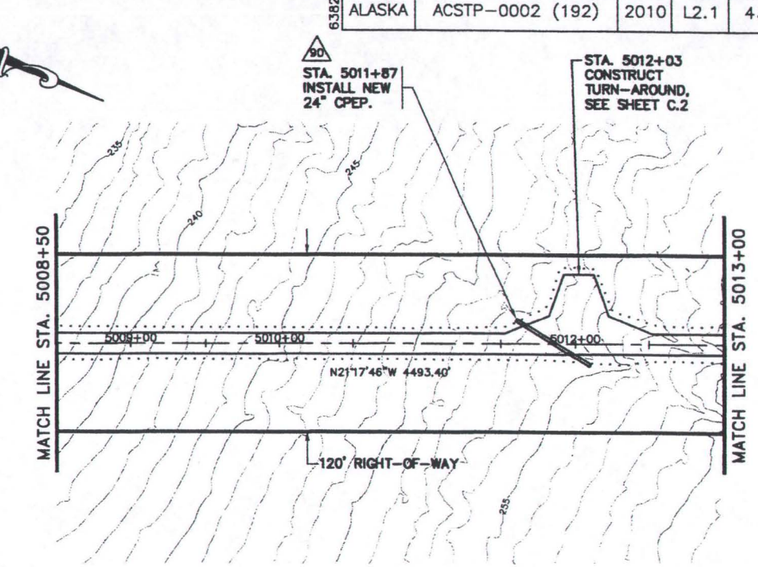
Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L2.1-L2.5 (cemetery road plan profile)-L2.1

SEC 14, T20S, R67W, KRM

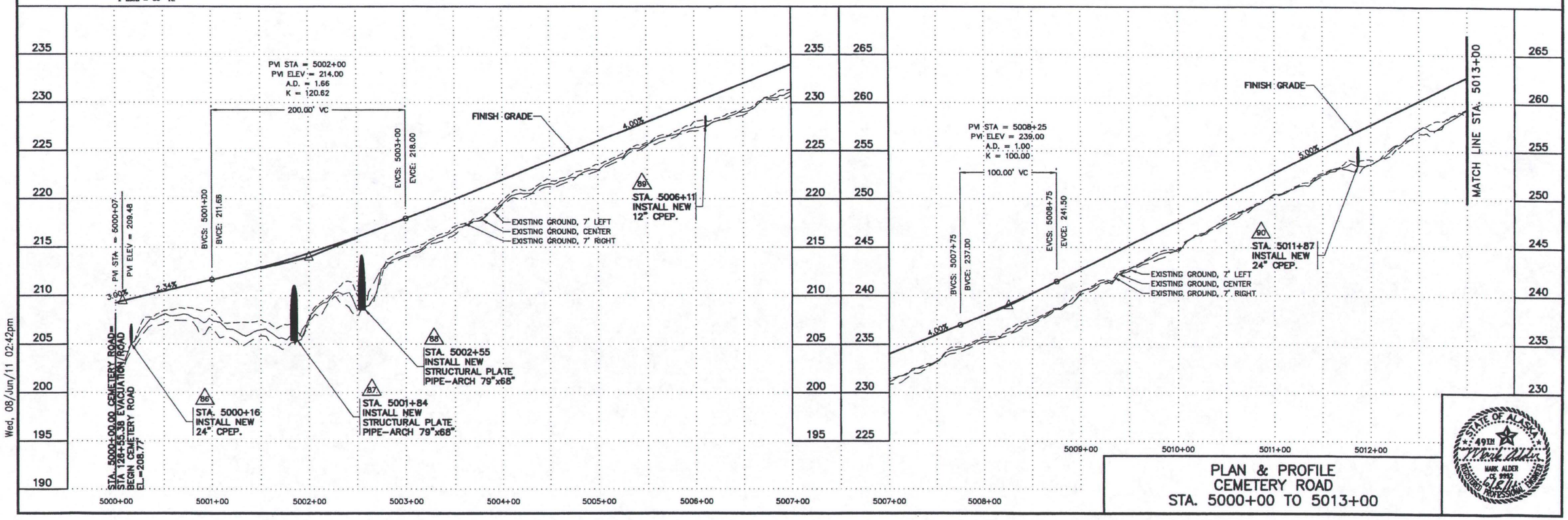
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L2.1	43

63825





CEMETERY ROAD



PLAN & PROFILE
CEMETERY ROAD
STA. 5000+00 TO 5013+00

STATE OF ALASKA 49TH MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER

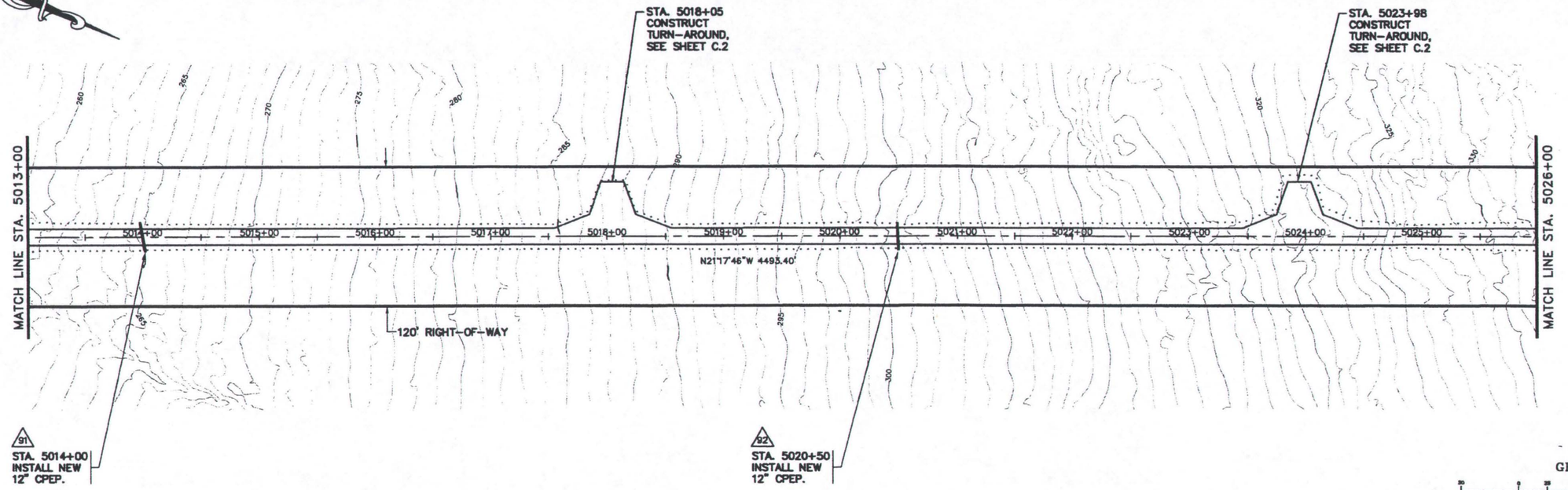
Wed, 08/Jun/11 02:42pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L2.1-L2.5 (cemetery road plan profile)-L2.2

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L2.2	43

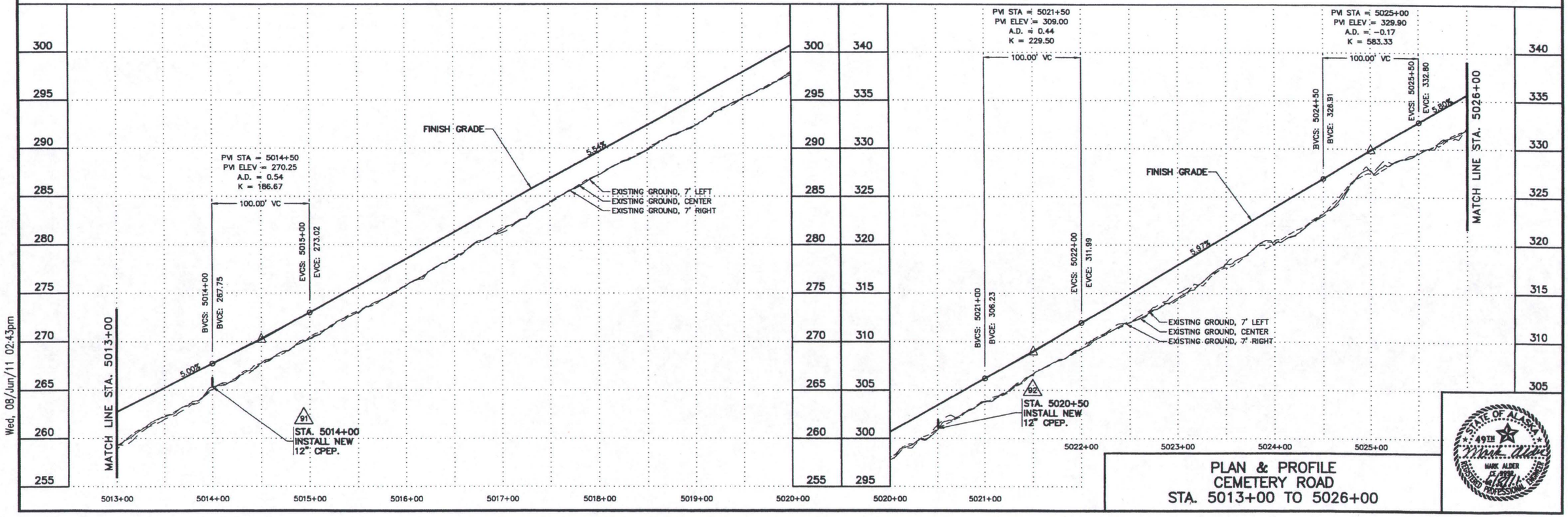
SEC 14, T20S, R67W, KRM



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

CEMETERY ROAD



Wed, 08/Jun/11 02:43pm

STATE OF ALASKA
49TH
MARK ALDER
MARK ALDER
LS 8808
REGISTERED PROFESSIONAL

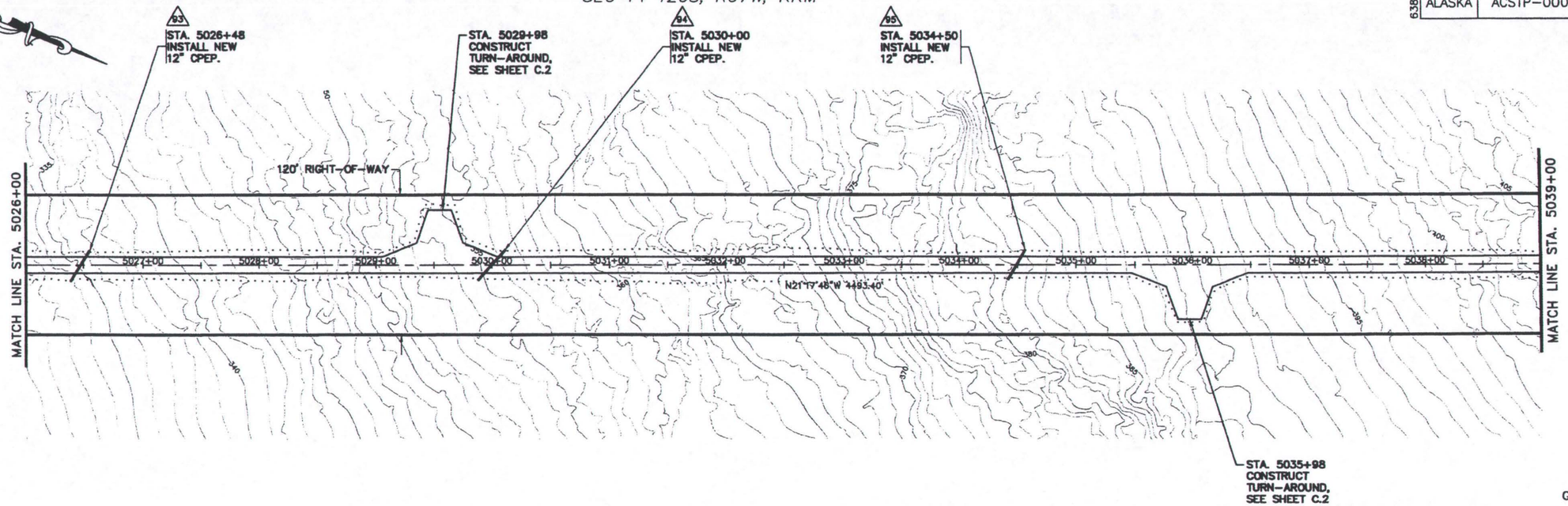
PLAN & PROFILE
CEMETERY ROAD
STA. 5013+00 TO 5026+00

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L2.1-L2.5 (cemetery road plan profile)-L2.3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L2.3	43

63825

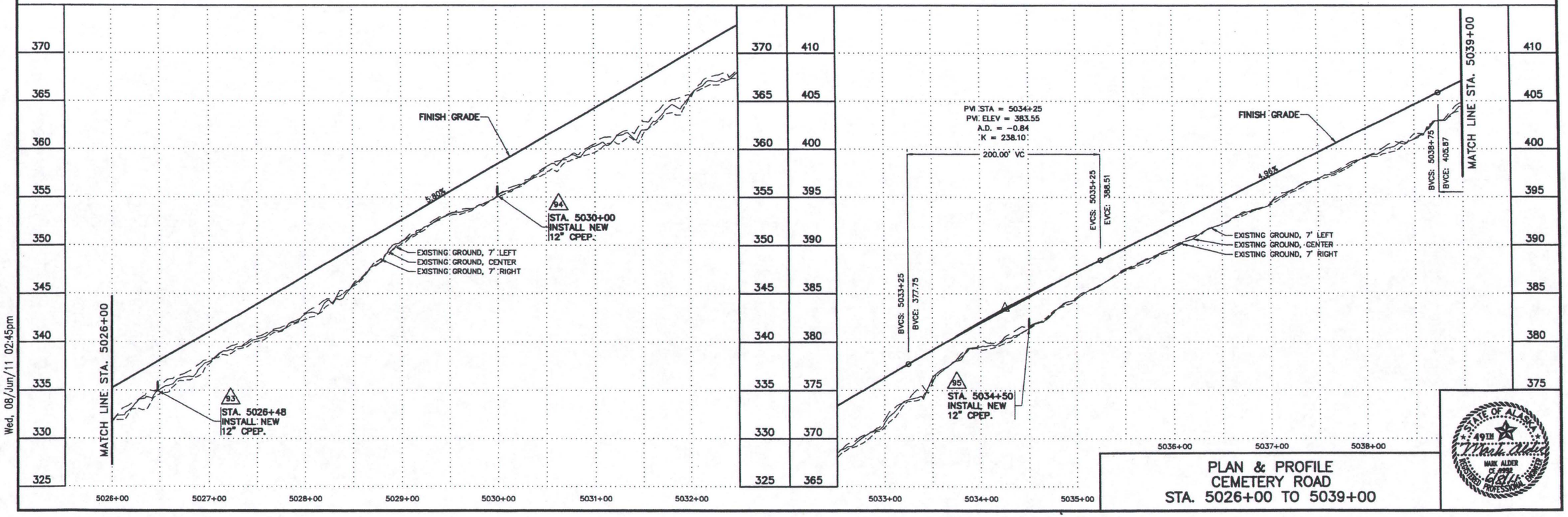
SEC 14 T20S, R67W, KRM



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

CEMETERY ROAD



PLAN & PROFILE
CEMETERY ROAD
STA. 5026+00 TO 5039+00

STATE OF ALASKA 49TH MARK ALDER CE 6811 REGISTERED PROFESSIONAL ENGINEER

Wed, 08/Jun/11 02:45pm

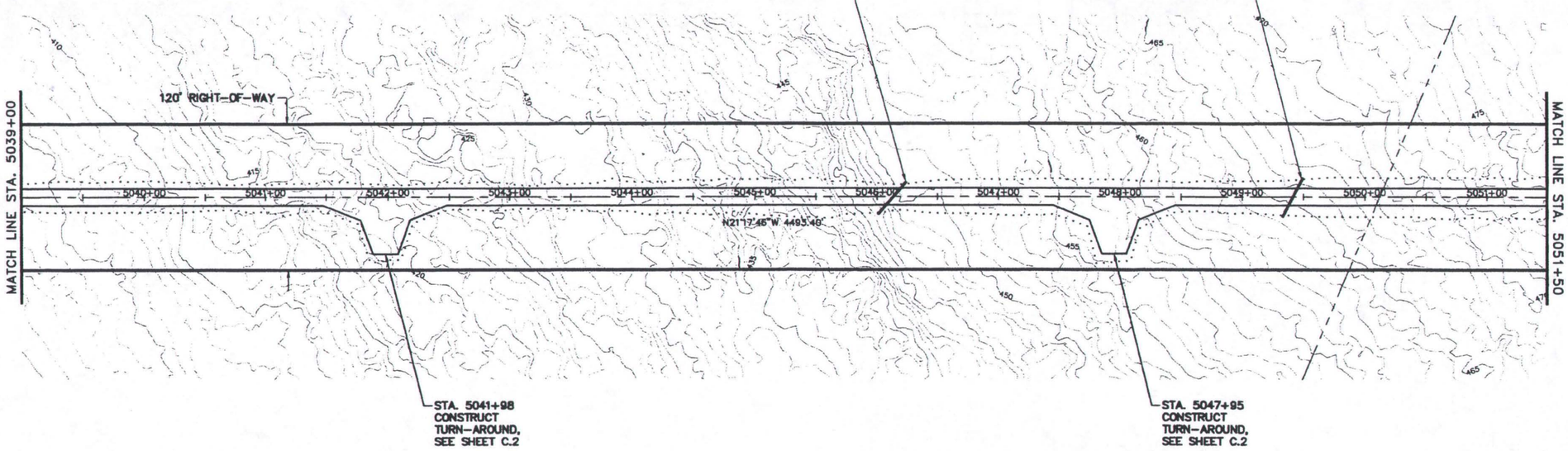
Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L2.1-L2.5 (cemetery road plan profile)-L2.4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L2.4	43

63825

SEC 14, T20S, R67W, KRM

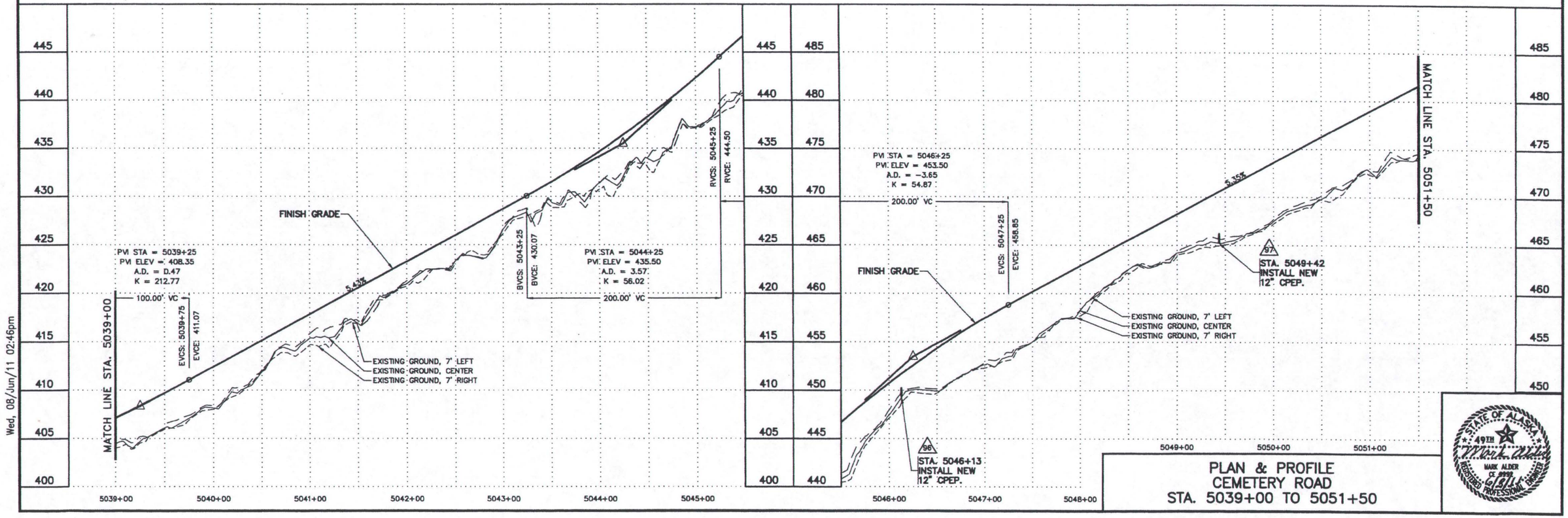
SEC 10, T20S, R67W, KRM



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

CEMETERY ROAD



PLAN & PROFILE
CEMETERY ROAD
STA. 5039+00 TO 5051+50

STATE OF ALASKA
49TH
MARK ALDER
CE 9998
REGISTERED PROFESSIONAL ENGINEER

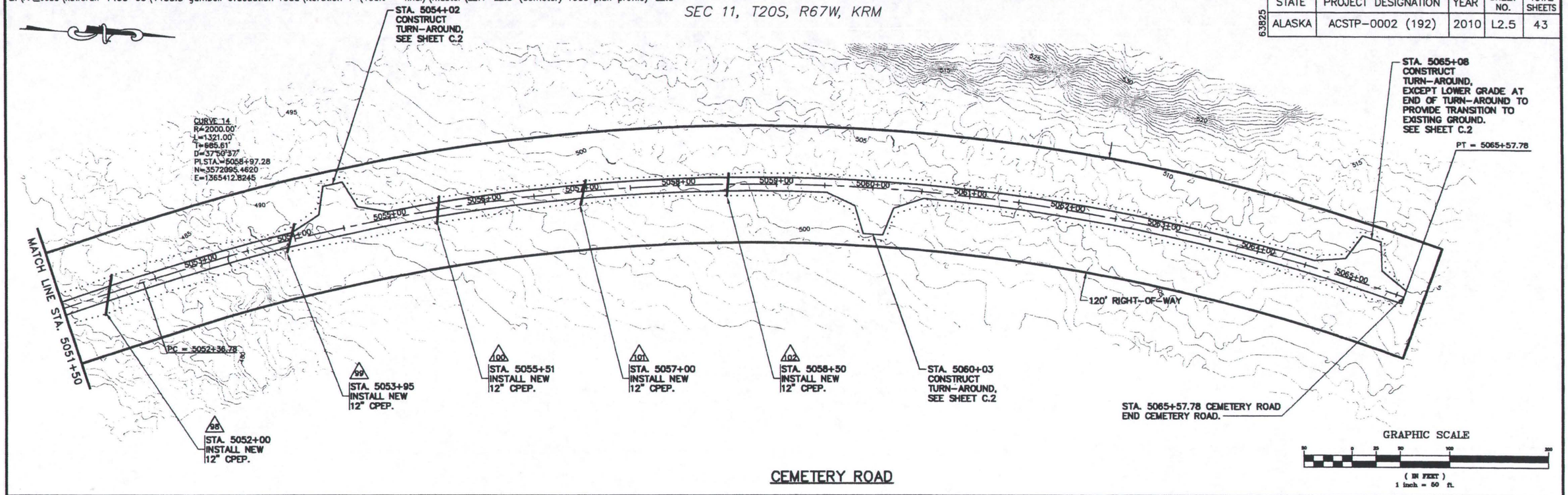
Wed, 08/Jun/11 02:46pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L2.1-L2.5 (cemetery road plan profile)-L2.5

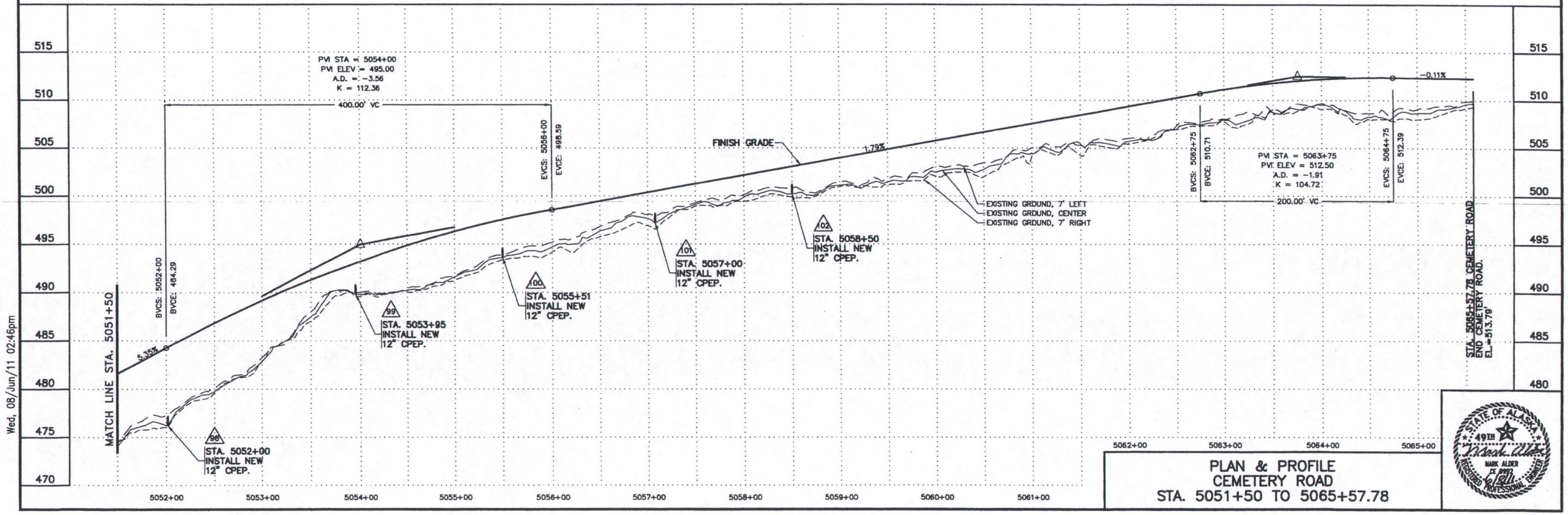
63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L2.5	43

SEC 11, T20S, R67W, KRM



CEMETERY ROAD



Wed, 08/Jun/11 02:46pm

PLAN & PROFILE
CEMETERY ROAD
STA. 5051+50 TO 5065+57.78

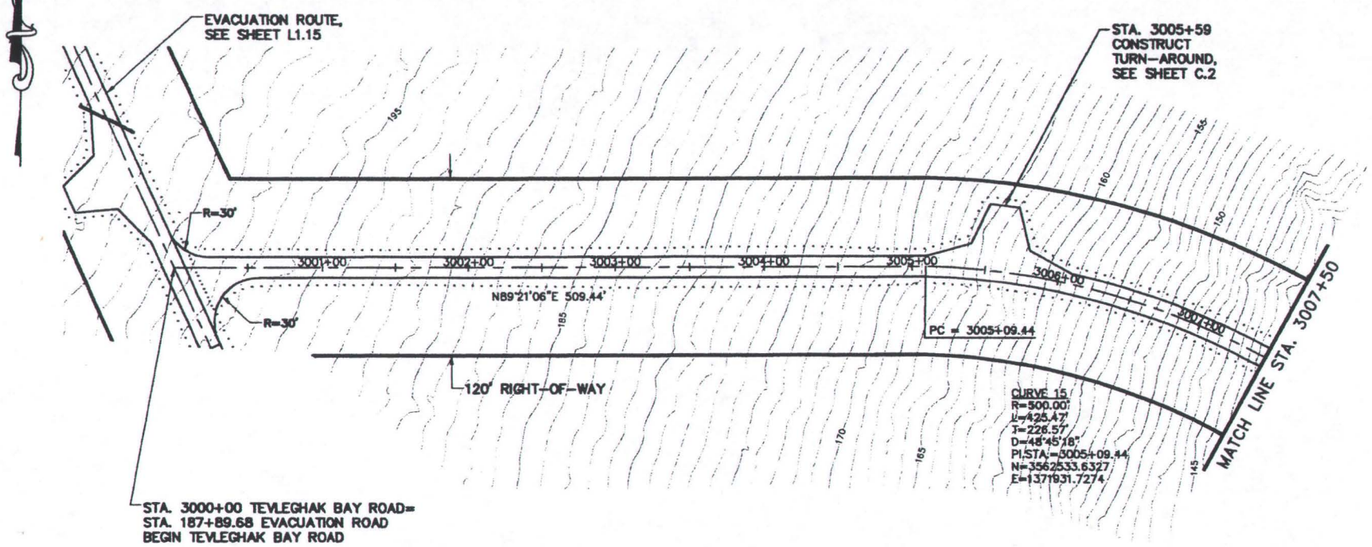
STATE OF ALASKA
49TH
MARK ALDER
CE 8992
REGISTERED PROFESSIONAL ENGINEER

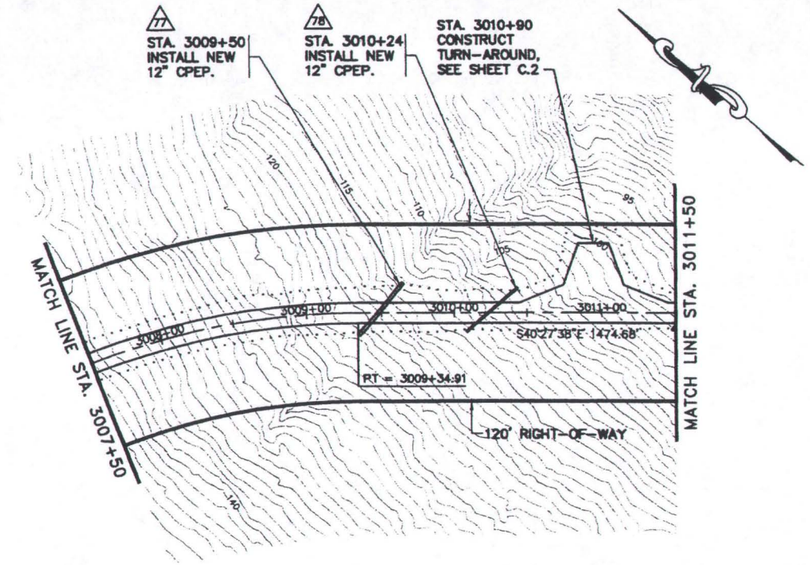
Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L3.1-L3.3 (tevleghak bay plan profile)-L3.1

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L3.1	43

SEC 24, T20S, R67W, KRM

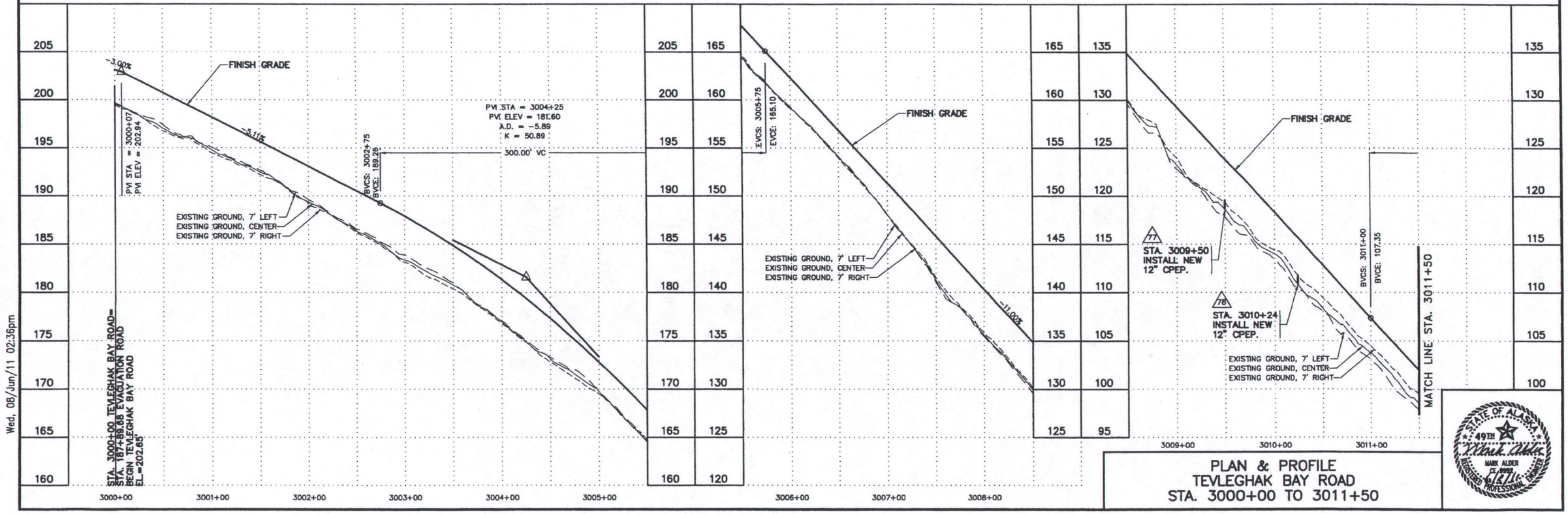




GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

TEVLEGHAK BAY ROAD



PLAN & PROFILE
TEVLEGHAK BAY ROAD
STA. 3000+00 TO 3011+50

STATE OF ALASKA 49TH Mark Alder MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER 6/8/11

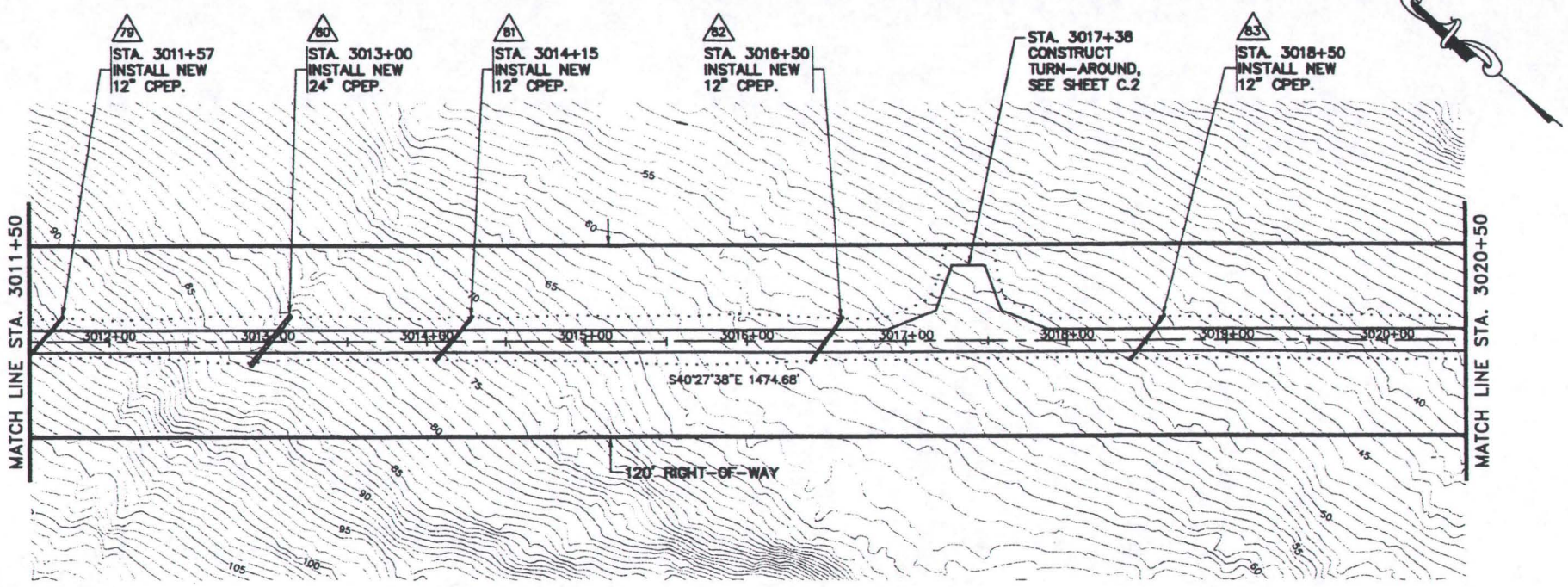
Wed, 08/Jun/11 02:36pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\L3.1-L3.3 (tevleghak bay plan profile)-L3.2

SEC 24, T20S, R67W, KRM

63825

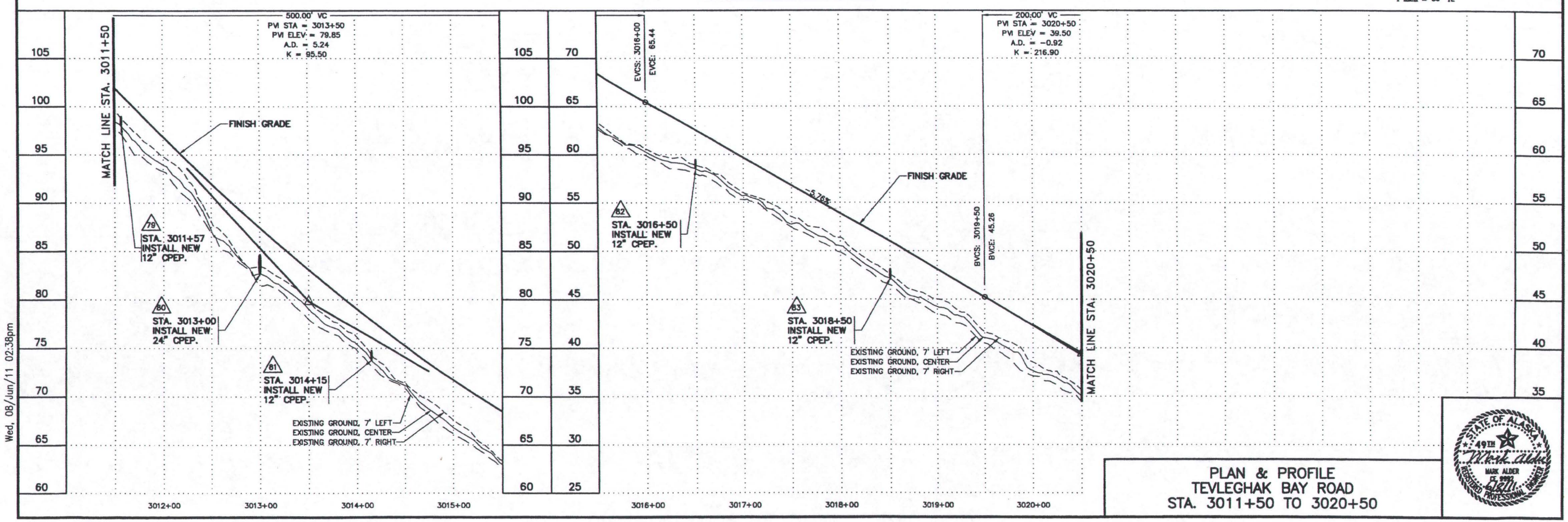
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L3.2	43



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

TEVLEGHAK BAY ROAD



PLAN & PROFILE
TEVLEGHAK BAY ROAD
STA. 3011+50 TO 3020+50

STATE OF ALASKA
49TH
MARK ALDER
CE 9992
REGISTERED PROFESSIONAL ENGINEER

Wed, 08/Jun/11 02:38pm

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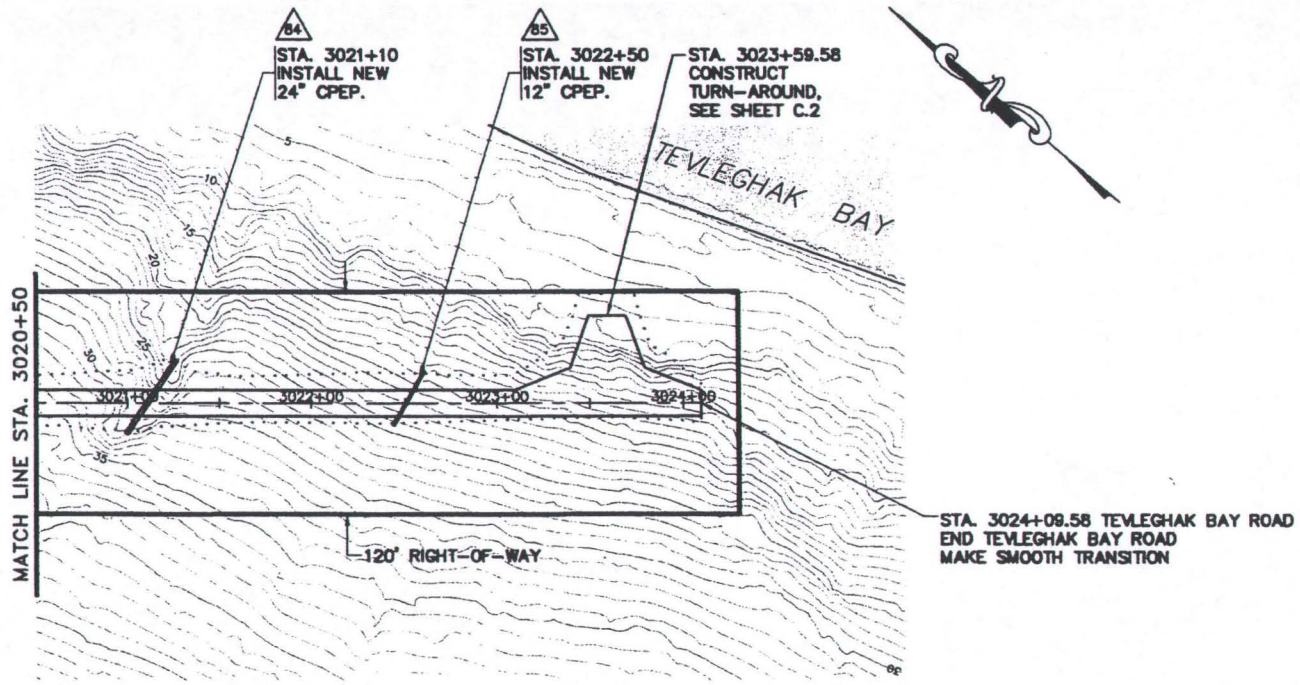
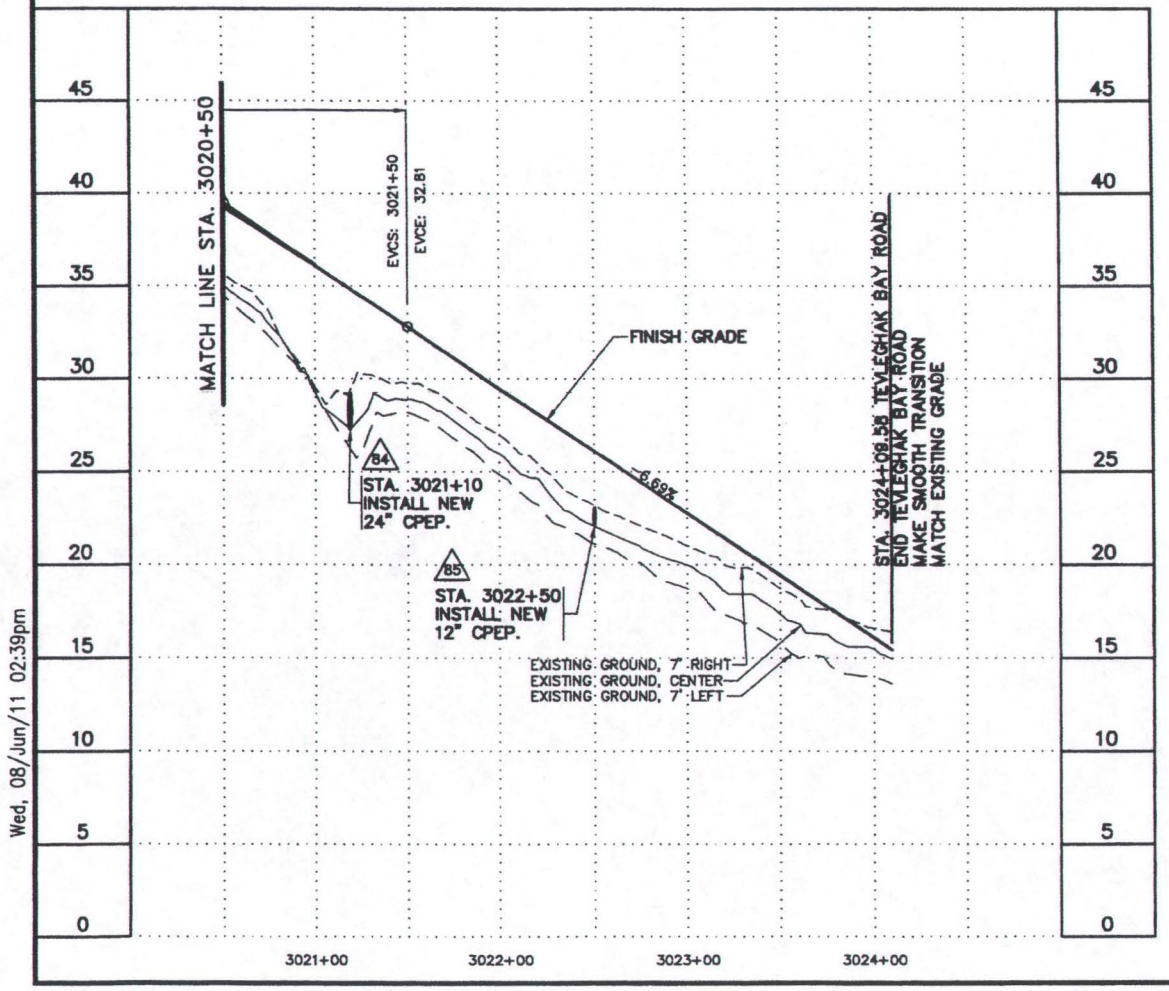
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	L3.3	43

63825

SEC 24, T20S, R67W, KRM



TEVLEGHAK BAY ROAD



GRAPHIC SCALE

(IN FEET)
1 inch = 50 ft.

Wed, 08/Jun/11 02:39pm

PLAN & PROFILE
TEVLEGHAK BAY ROAD
STA. 3020+50 TO 3024+09.58

STATE OF ALASKA
49TH
MARK ALDER
CE 9972
REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	M.1	43

63825

NOTES:

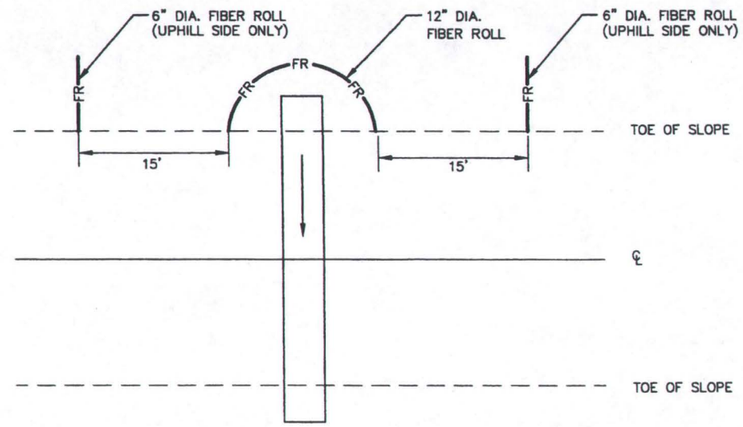
1. PROJECT AREA IS LOCATED IN WETLANDS. ADJACENT WETLANDS WITH NO STANDING WATER MAY BE USED AS A SEDIMENT CONTROL WITH LOW EROSIVE SOILS BEING USED FOR CONSTRUCTION, SEE APPENDIX C-SOIL ERODIBILITY CHART WITH NO MORE THAN 6% FINES-OF DOT&PF HIGHWAY DRAINAGE MANUAL. CONSTRUCTION MATERIAL WITH NO MORE THAN 6% FINES DOES NOT REQUIRE FINAL STABILIZATION ON EXPOSED SIDE SLOPES.
2. IN AREAS WITH STANDING WATER OR INADEQUATE VEGETATIVE BUFFER SHALL HAVE FIBER ROLLS USED FOR TEMPORARY SEDIMENT CONTROL ALONG TOE OF SLOPES.
3. IN ALL OTHER AREAS, THE EXISTING VEGETATIVE BUFFER SHALL BE UTILIZED AS PERIMETER CONTROL.
4. MATERIAL SITE AND STAGING AREA SHALL BE LINED WITH SILT FENCE AS PERIMETER CONTROL. TOP SOIL REMOVED TO ACCESS MATERIAL SHALL BE KEPT WITHIN MATERIAL SITE OR STAGING AREA AND RETAINED FOR USE AFTER CONSTRUCTION TO STABILIZE MATERIAL SITE. TOPSOIL SHALL BE USED TO STABILIZE MATERIAL SOURCE. TOPSOIL STOCK PILE SHALL BE STABILIZED WITH TEMPORARY SEEDING OR COVERED TO PROTECT FROM EROSION. SEE RECLAMATION PLAN FOR REQUIREMENTS FOR MATERIAL SITE PRIOR TO FINAL STABILIZATION. PREPARATION OF THE MATERIAL SITE RECLAMATION PLAN MEETING ALASKA DEPARTMENT OF NATURAL RESOURCES IS THE CONTRACTOR'S RESPONSIBILITY.
5. IN AREAS OF CUTS ALONG ROAD TOPSOIL SHALL BE PRESERVED AND PLACED ON EXPOSED SOIL AFTER CONSTRUCTION HAS CEASED IN THAT AREA. AREAS WITH CUTS SHALL HAVE FIBER ROLLS PLACED DOWNHILL TO CATCH SEDIMENT IN RUNOFF.
6. NO WORK IS ALLOWED OUTSIDE PERMITTED AREAS. ALL CONSTRUCTION EQUIPMENT SHALL REMAIN ON EXISTING OR NEW GRAVEL SURFACES AT ALL TIMES.
7. REFER AND COMPLY WITH CONDITIONS AND REQUIREMENTS IN THE SECTION 404 USACE PERMIT.
8. TO DIVERT HIGHER ELEVATION WATER FROM EXPOSED MATERIAL IN MATERIAL SITE, AN IMPERMEABLE EARTHEN BERM, STRAW BARRIER, SAND BAGS BERM OR OTHER EQUIVALENT DAM SYSTEM SHALL BE USED.
9. THE DISCHARGE POINTS FOR THIS PROJECT ARE THE CULVERTS. SEE DETAIL 1 & 2 ON THIS SHEET FOR TEMPORARY SEDIMENT CONTROLS THAT ARE TO BE IMPLEMENTED ON ALL CULVERTS ASSOCIATED WITH THIS PROJECT.
10. STABILIZED EXITS ARE NOT REQUIRED FOR THIS PROJECT. ALL ROADS ARE GRAVEL AND TRAFFIC IS NOT ALLOWED OFF OF GRAVEL ROADS.

ESTIMATED DISTURBED GROUND

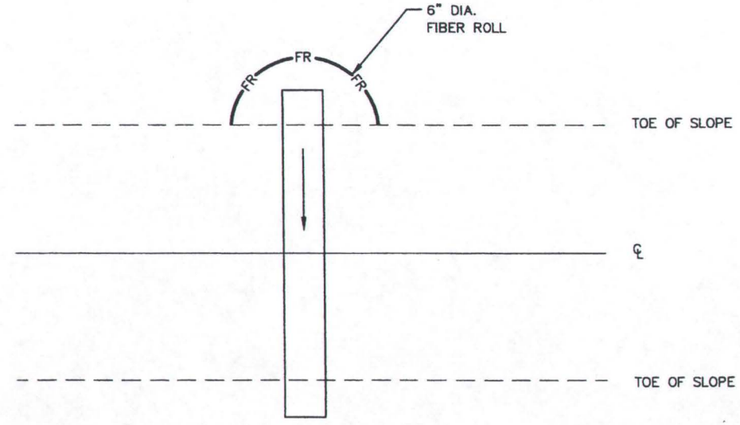
ON-SITE/TOTAL PROJECT: 21 ACRES
OFF-SITE: 16 ACRES

PERMITTED AREA

20.0 ACRES OF WETLAND FILL



LARGE CULVERT DETAIL
36" & 79" X 68" - NTS



SMALL CULVERT DETAIL
12" & 24" - NTS

EROSION AND SEDIMENT CONTROL PLAN

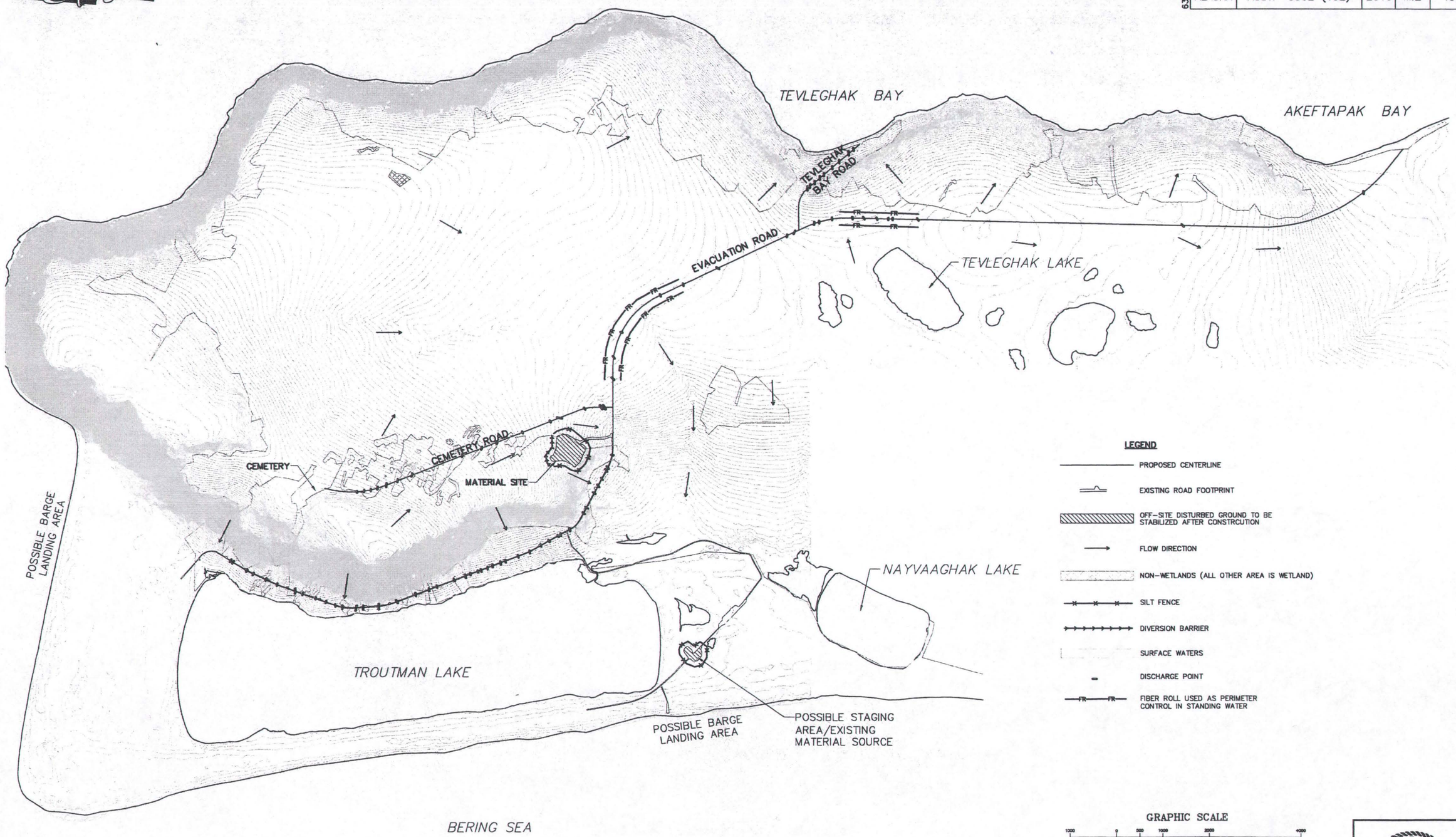
STATE OF ALASKA 49TH MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER

Wed, 08/Jun/11 02:17pm

Z:\AA_Jobs\kawerak-1438-05\1438.8 gambell evacuation road\iteration 7 (100% - final)\master\M.1 erosion and sediment control plan-M.2

63825

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	ACSTP-0002 (192)	2010	M.2	43



EROSION AND SEDIMENT CONTROL PLAN

STATE OF ALASKA 49TH MARK ALDER CE 9992 REGISTERED PROFESSIONAL ENGINEER

Tue, 07/Jun/11 04:45pm