State of Alaska

Department of Transportation and Public Facilities

Southeast Region

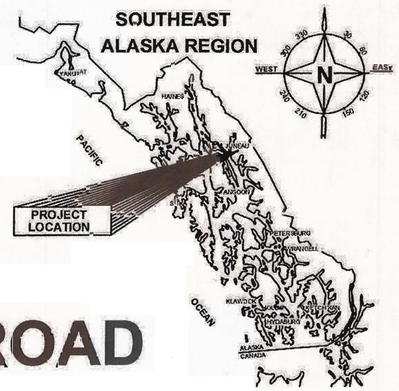
JUNEAU, ALASKA
GLACIER HIGHWAY AND BACK LOOP ROAD

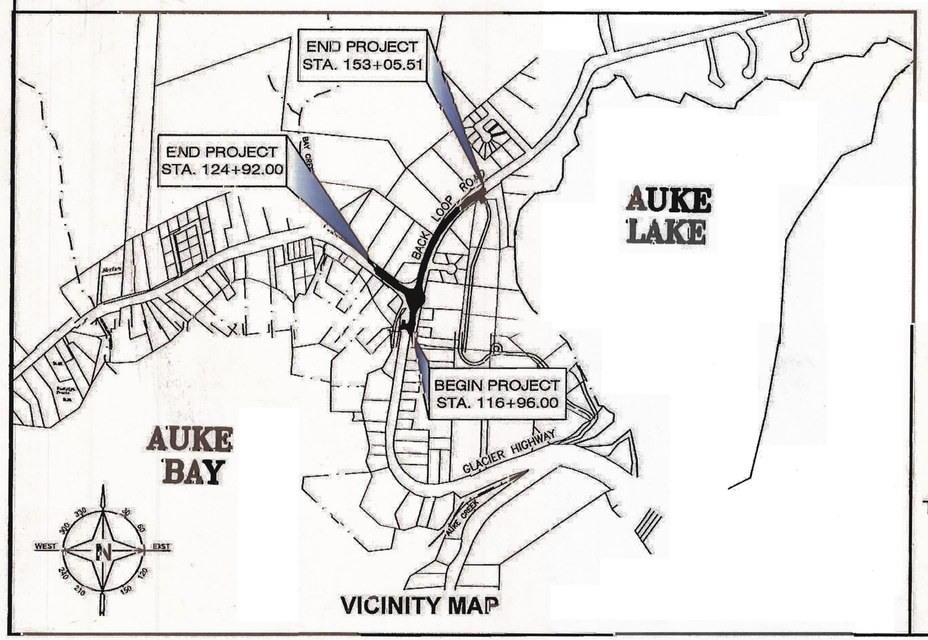
INTERSECTION SAFETY IMPROVEMENTS
PROJECT No. 69003

AS-BUILT

Contractor: Miller Construction Co., Ltd.
Project Engineer: Garret K. Gladsjo
NTP ISSUED: 5/30/2013
Substantial Completion: 8/1/2014
Project Completion: 10/9/2014

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE GKG Date 9/18/15





VICINITY MAP

DESIGN DESIGNATION
BACK LOOP ROAD

V	=	20 MPH FOR ROUNDABOUT INTERSECTION
	=	40 MPH FOR WESTBOUND ROUNDABOUT APPROACH LEG
	=	35 MPH FOR EASTBOUND ROUNDABOUT APPROACH LEG
A.D.T. 2009	=	3510
A.D.T. 2014	=	3780
A.D.T. 2034	=	3970
D.H.V. 2034	=	480
TRUCKS %	=	11.5%
E.A.L.	=	850,000

DESIGN DESIGNATION
GLACIER HIGHWAY

V	=	40 MPH
A.D.T. 2009	=	7700
A.D.T. 2024	=	8240
A.D.T. 2034	=	8720
D.H.V. 2034	=	1050
TRUCKS %	=	11.5%
E.A.L.	=	1,800,000

PROJECT SUMMARY
GLACIER HIGHWAY

CDS ROUTE NO	=	296401
CDS MILEPOINT	=	3.754 TO 3.983
LENGTH OF GRADING	=	0.37 MILES
LENGTH OF PAVING	=	0.37 MILES
WIDTH OF PAVING	=	37 FT
LENGTH OF PROJECT	=	0.37 MILES

DESIGN CRITERIA
RECONSTRUCTION

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	C-03.10	C-04.12	C-05.20	D-01.02	D-04.21
D-20.03	D-22.01	D-23.01	D-24.00	D-25.00	D-26.02
D-35.00	E-13.00	F-01.01	G-00.02	G-04.06S	G-09.04S
G-10.01	G-46.11	I-22.02	I-20.14	I-21.02	L-03.10
L-23.01	L-24.00	L-26.00	L-30.10	M-01.00	M-20.12
M-23.12	S-00.11	S-05.01	S-20.10	S-23.00	S-30.03
T-20.03	T-21.03	T-22.03	T-23.00		

THE FOLLOWING CBJ STANDARD DRAWINGS APPLY TO THIS PROJECT:

104A	203	205	209	210	213
215	218	310	403	405	406A
407	412	414A	414B		

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SURVEY CONTROL
A3	PROJECT ALIGNMENT AND SHEET LAYOUT PLAN
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D1-D5	SUMMARY TABLES
E1-E6	DETAILS
F1-F4	ROADWAY PLANS
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J1-J4	DEHART'S ACCESS EXPANSION
L1-L2	LANDSCAPING PLANS
M1-M2	GRAVITY BLOCK WALL
P1-P4	EROSION AND SEDIMENT CONTROL PLAN
T1-T5	TRAFFIC CONTROL PLAN
U1-U14	STORM DRAIN PLAN AND PROFILE
U15-U21	WATER PLAN AND PROFILE
U22	SANITARY SEWER SERVICE REPLACEMENT
H SERIES	ACS PLAN SHEETS
C100-C112	DEHART'S ACCESS EXPANSION (by R&M)

PATH: I:\1289500\DWGS\CISHEETS\1289500 A01.DWG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

STATE OF ALASKA — GARRET K. GLADSJO — CE-9866 — 4/8/13 — REGISTERED PROFESSIONAL ENGINEER

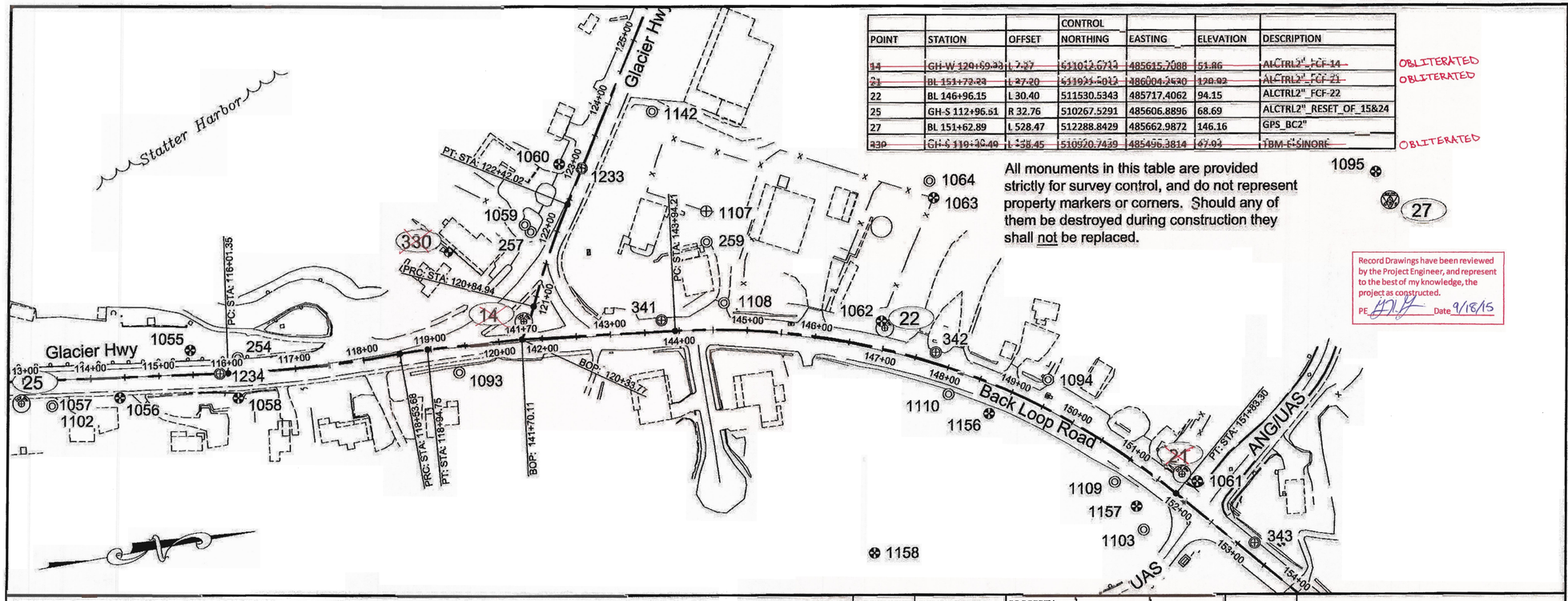
APPROVED: Chuck Correa 4/10/13
REGIONAL PRE-CONSTRUCTION ENGINEER — DATE
CHUCK CORREA, P.E.

APPROVED: Al Clough 4.10.2013
DIRECTOR, SOUTHEAST REGION — DATE
ALBERT H. CLOUGH, CPG

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:
David C Nagle 9/21/15
CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	69003	2013	A1	82

AS-BUILT — Auke Bay Roundabout — Proj. #: 69003



POINT	STATION	OFFSET	CONTROL NORTHING	EASTING	ELEVATION	DESCRIPTION	
~~14~~	~~GH-W 120+69.33~~	~~L 7.27~~	~~511012.6713~~	~~485615.7088~~	~~51.86~~	~~ALCTRL2"_FCF-14~~	OBLITERATED
~~21~~	~~BL 151+72.23~~	~~L 27.20~~	~~511021.5012~~	~~486004.2530~~	~~129.92~~	~~ALCTRL2"_FCF-21~~	OBLITERATED
22	BL 146+96.15	L 30.40	511530.5343	485717.4062	94.15	ALCTRL2"_FCF-22	
25	GH-S 112+96.61	R 32.76	510267.5291	485606.8896	68.69	ALCTRL2"_RESET_OF_15&24	
27	BL 151+62.89	L 528.47	512288.8429	485662.9872	146.16	GPS_BC2"	
~~330~~	~~GH-S 119+30.49~~	~~L 138.45~~	~~510920.7439~~	~~485496.3814~~	~~47.93~~	~~TBM-ELSINORE~~	OBLITERATED

All monuments in this table are provided strictly for survey control, and do not represent property markers or corners. Should any of them be destroyed during construction they shall not be replaced.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE 4/7/14 Date 9/18/15

PATH: Q:\JNU\67555\RW\A2_FCF_2012.DWG
ANDERSON, ELIZABETH A (DOT)
TAB: A2 Friday, April 12, 2013 9:30:10 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

HORIZONTAL CONTROL

Horizontal Control for this project is based on the DOT/PF 2000 Juneau Grid

The DOT/PF Juneau Grid-2000 System is a local ground coordinate system based at USC&GS first order control station EDDIE. It relates to AKSPC zone 1 NAD83 through the following parameters:
Zone = NAD83 AKSPC ZONE 1
Grid Scale = 0.999928875
Convergence = -0°45'27.26"
Translation about USC&GS point EDDIE as follows:
AKSPC Northing = 2383469.17310 FT US
AKSPC Easting = 2512570.06318 FT US
Local Northing = 500000.0000 FT US
Local Easting = 500000.0000 FT US

Project Specific Horizontal Control

FCF-25: 2" aluminum cap set behind sidewalk in front of house #11540 approximately 30' southwest of power pole #12852.
JNU-Grid N 510267.5291 FT US, E 485606.8896 FT US
AKSPC N 2393925.3630 FT US , E 2498314.9795 FT US

FCF-14 : 2" aluminum cap set in the triangular median adjacent to Dehart's approximately 9.5' southeast of the spruce tree.
JNU-Grid N 511012.6713 FT US, E 485615.7088 FT US
AKSPC N 2394670.2705 FT US, E 2498333.6487 FT US

VERTICAL CONTROL

The Vertical Datum for JNU Grid-2000 is MLLW Gastineau Channel tidal datum based on third order differential levels and supplemented with GEOID '99 modeled orthometric heights. The tidal epoch is 1960-1978, but this epoch has been updated with a 5 year observation period from Jan '94 to Dec '98 published Nov '99. The latest NOS publication (10-2011) on the 1983-2001 tidal epoch indicates the datum has risen 0.32'.

The Project Specific Basis of Vertical Control is point #330 "TBM-Elsinore". It is a 2 ½" domed brass cap located in the northeast corner of concrete dumpster pad in front of Dehart's store. TBM-Elsinore has an observed elevation of 47.93 feet above MLLW.

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.

All monuments in this table shall be preserved or referenced prior to disturbance and replaced at their original horizontal position.

POINT	STATION	PROPERTY OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
254	GH-S 116+16.29	L 22.14	510591.6022	485595.2068		REBAR_SET
257	GH-W 121+86.55	L 36.04	511044.5822	485488.1400		REBAR_SET
259	BL 144+40.95	L 128.77	511295.1187	485547.1734		REBAR_SET
341	BL 143+75.28	L 16.64	511211.0892	485648.8646		SH_MON
342	BL 147+76.19	L 15.69	511598.2107	485765.5779		SH_MON
343	BL 153+18.30	L 16.64	512008.9746	486122.0580		SH_MON
1055	GH-S 115+46.81	L 35.83	510524.7624	485572.4283		BLM_BC3"_C3-L1-S3819/C7-C5-L2-S3819/C5-S1504
1056	GH-S 114+41.70	R 29.71	510411.8254	485623.3022		GLO_BC2.5"_C1-LH/C4-LH1-S2391
1057	GH-S 113+41.85	R 37.51	510311.8083	485617.6602		WOOD_STAKE1"X2"_IN-PVC
1058	GH-S 116+14.56	R 36.91	510582.4549	485653.5715		GLO_BC2.5"_C1-LH1/C1-LI_S2391_1938
1059	GH-W 121+93.24	L 47.76	511037.7318	485476.3742		PLASCAP_TNA
1060	GH-W 122+92.02	L 33.16	511102.1918	485397.8231		GLO_BC2.5"C3-L4/C2-L3_S2664_1946
1061	BL 151+95.85	L 33.33	511941.7724	486018.3383		GLO_BC2.5"S2391/C4-LV/C1-LW/1938
1062	BL 146+89.45	L 39.15	511527.5643	485706.6591		GLO_BC2.5"S2391_C36/C1-LU/C1-LBB/1938
1063	BL 147+17.27	L 231.78	511633.0695	485542.4832		GLO_BC2.5"S2391/C2-LA/C3-LBB/1938
1064	BL 147+07.45	L 254.31	511631.2060	485517.0002		BT_14"_HEMLOCK
1093	GH-S 119+37.94	R 38.35	510907.1844	485672.6717		PLASCAP
1094	BL 149+39.66	L 38.86	511752.7429	485834.1852		ALCAP2.5"_C4-LV/C1-LW_S2391/RESET1988
1095	BL 151+34.99	L 548.68	512275.3192	485618.3759		GLO_BC2.5"C3-LV/C2-LW_S3820/1938
1102	GH-S 113+41.48	R 37.99	510311.3937	485618.0953		PLASCAP_BEAN
1103	BL 151+80.67	R 70.70	511853.1210	486074.8012		BT_22"_HEMLOCK
1107	BL 144+40.81	L 173.43	511302.2170	485503.0872		ALCAP3.25"_LBB1/LBB2_S2391_1988
1108	BL 144+65.43	L 39.26	511305.5445	485639.9054		PLASCAP_1410-S
1109	BL 151+00.33	R 40.43	511823.3203	485998.5033		BT_12"_HEMLOCK
1110	BL 148+13.54	R 36.69	511605.8245	485829.2314		BT_12"_JACK PINE
1142	GH-W 124+14.33	R 63.82	511248.4470	485345.5757		REBAR@SPINHOLE_POOR-CONDITION
1156	BL 148+81.72	R 41.86	511659.2821	485867.6984		USFS_ALPRIM3.25"_ROW/FR_L-J_S2391/FR_L-J_S2391_77
1157	BL 151+49.46	R 50.39	511848.7146	486039.3155		USFS_ALPRIM3.25"_ROW/FR_LOT_J_S2391/LOT_P1_7712S
1158	BL 147+80.90	R 290.35	511460.4164	486038.8722		GLO_BC2.5"_S2391_LOT_P1_C2/LOT_P2_C3
1233	GH-W 122+98.61	L 0.37	511133.5552	485409.4449		CL_MON_BC2.5"_DOH_RTK
1234	GH-S 115+89.40	L 0.03	510562.1755	485613.6102		CL_MON_BC2.5"_DOH_RTK

CHECKED BY: R. DAVIS

STATE OF ALASKA
49th
Randal V. Davis
LS#10811
REGISTERED PROFESSIONAL LAND SURVEYOR

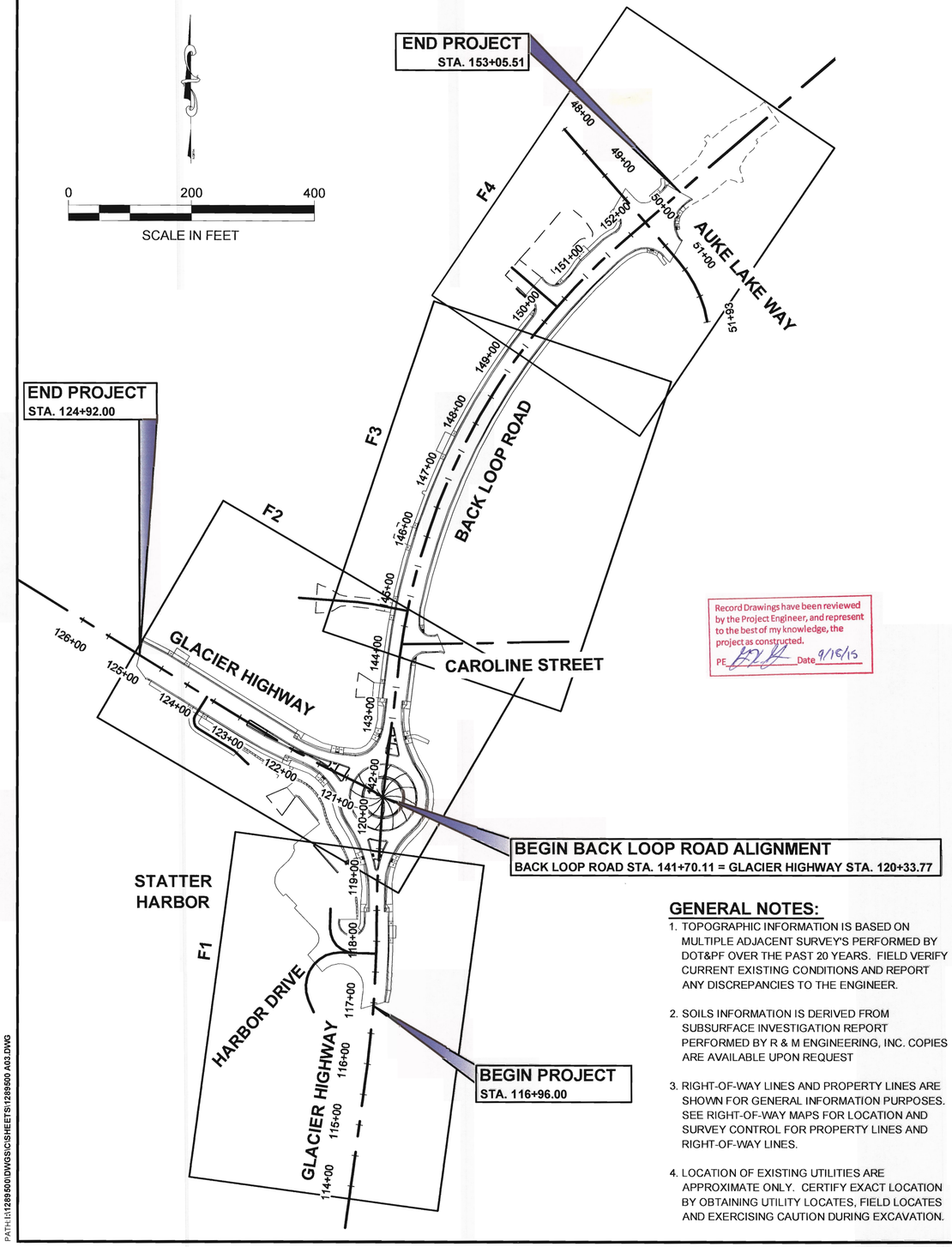
DESIGNED BY: ROW
DRAWN BY: J. PAPOI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SURVEY CONTROL

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
A2	xx



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/16/15

GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION IS BASED ON MULTIPLE ADJACENT SURVEY'S PERFORMED BY DOT&PF OVER THE PAST 20 YEARS. FIELD VERIFY CURRENT EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. SOILS INFORMATION IS DERIVED FROM SUBSURFACE INVESTIGATION REPORT PERFORMED BY R & M ENGINEERING, INC. COPIES ARE AVAILABLE UPON REQUEST
3. RIGHT-OF-WAY LINES AND PROPERTY LINES ARE SHOWN FOR GENERAL INFORMATION PURPOSES. SEE RIGHT-OF-WAY MAPS FOR LOCATION AND SURVEY CONTROL FOR PROPERTY LINES AND RIGHT-OF-WAY LINES.
4. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY. CERTIFY EXACT LOCATION BY OBTAINING UTILITY LOCATES, FIELD LOCATES AND EXERCISING CAUTION DURING EXCAVATION.

DESIGN ALIGNMENT TABLES

DESC	STATION	NORTHING	EASTING	BEARING	DISTANCE	NORTHING CENTER PNT	EASTING CENTER PNT	RADIUS	LENGTH	Δ
BACKLOOP										
PI	141+70.11	511 005.40	485 640.92	N6° 50' 53.2"E	224.10					
PC	143+94.21	511 227.90	485 667.64			511 100.91	486 725.04	1065.00 RT	789.09	42° 27' 06.8"
PT	151+83.30	511 908.33	486 030.56	N49° 18' 00.0"E	905.30					
POT	160+88.60	512 498.67	486 716.90							
GLACIER HIGHWAY - SOUTH OF ROUNDABOUT										
PT	108+23.70	509 803.37	485 511.12	N7° 41' 38.7"E	777.65					
PC	116+01.35	510 574.01	485 615.24			510 801.61	483 930.54	1700.00 LT	252.33	8° 30' 16.1"
PRC	118+53.68	510 825.66	485 630.37			510 832.73	486 130.32	500.00 RT	41.07	4° 42' 22.2"
PT	118+94.75	510 866.70	485 631.48	N3° 53' 44.8"E	139.02					
PI	120+33.77	511 005.40	485 640.92							
GLACIER HIGHWAY - NORTH OF ROUNDABOUT										
PC	120+33.77	511 005.40	485 640.92			510 778.38	485 483.11	276.48 LT	51.17	10° 36' 16.3"
PRC	120+84.94	511 030.56	485 596.45			512 125.10	486 088.36	1200.00 RT	157.08	7° 30' 00.2"
PT	122+42.02	511 104.13	485 457.79	N58° 17' 59.1"W	571.02					
PC	128+13.05	511 404.19	484 971.96							
HARBOR DRIVE										
PI	10+00.00	510 751.72	485 629.81	N88° 19' 05.2"W	57.44					
PC	10+57.44	510 753.41	485 572.40			510 697.93	485 570.77	55.50 LT	111.14	114°43'55"
PT	11+68.57	510 676.20	485 519.70	S23° 03' 59.9"E	21.63					
POT	11+90.20	510 656.30	485 528.17							
GRAVITY BLOCK WALL										
PC	30+00.00	510 797.39	485 600.36			510 803.40	485 236.41	364.00 LT	79.63	12°32'05"
PCC	30+79.63	510 876.53	485 592.99			510 839.86	485 414.21	182.50 LT	74.57	23°24'42"
PRC	31+54.20	510 944.54	485 563.70			511 004.77	485 649.71	105.00 RT	41.37	22°34'31"
PRC	31+95.58	510 982.18	485 547.17			510 966.20	485 474.68	74.23 LT	71.67	55°19'18"
PT	32+67.25	511 034.90	485 502.79	N67° 44' 52.5"W	22.76					
PC	32+90.01	511 043.52	485 481.72			511089.8	485500.66	50.00 RT	9.71	11°07'21"
PT	32+99.72	511 048.04	485 473.15	N56° 37' 31.6"W	92.75					
POT	33+92.47	511 099.07	485 395.69							
CAROLINE STREET										
PI	60+00.00	511 253.88	485 671.09	N89° 07' 24.5"E	270.37					
POT	62+70.37	511 258.02	485 941.42							
AUKE LAKE WAY										
POT	48+00.00	512 090.26	485 935.38	S40° 57' 25.4"E	200.00					
PI	50+00.00	511 939.22	486 066.48	S40° 42' 00.0"E	83.86					
PC	50+83.86	511 875.65	486 121.16			511 745.23	485 969.54	200.00 RT	109.43	31° 20' 53.6"
POC	51+93.28	511 777.73	486 166.88							
BUS YARD										
PI	0+00.00	511 801.86	485 923.24	N48° 50' 23"W	97.00					
POT	0+97.00	511 865.70	485 850.21							
DEEMS DRIVEWAY										
PI	1+00.00	511 167.70	485 354.86	S31° 42' 00.9"W	36.29					
PC	1+36.29	511 136.83	485 335.79			511 128.95	485 348.56	15.00 LT	23.56	90° 00' 00.0"
PT	1+59.85	511 116.19	485 340.67	S58° 17' 59.1"E	69.07					
PC	2+28.91	511 079.90	485 399.43			511 062.88	485 388.93	20.00 RT	4.68	13° 23' 40.3"
PT	2+33.59	511 077.00	485 403.09	S44° 54' 18.8"E	26.81					
POT	2+60.40	511 058.01	485 422.02							
AEL&P DRIVEWAY										
PI	1+00.00	511 308.14	485 680.40	N78° 46' 46.5"W	56.50					
PC	1+56.50	511 319.14	485 624.98			511 122.96	485 586.06	200.00 RT	25.23	7°13'45"
PT	1+81.73	511 322.48	485 599.99	N86° 00' 31.1"W	176.98					

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **A3**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/8/15
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAMER, B. PADDOCK, W. WEBB

DRAWN BY: M. HILDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

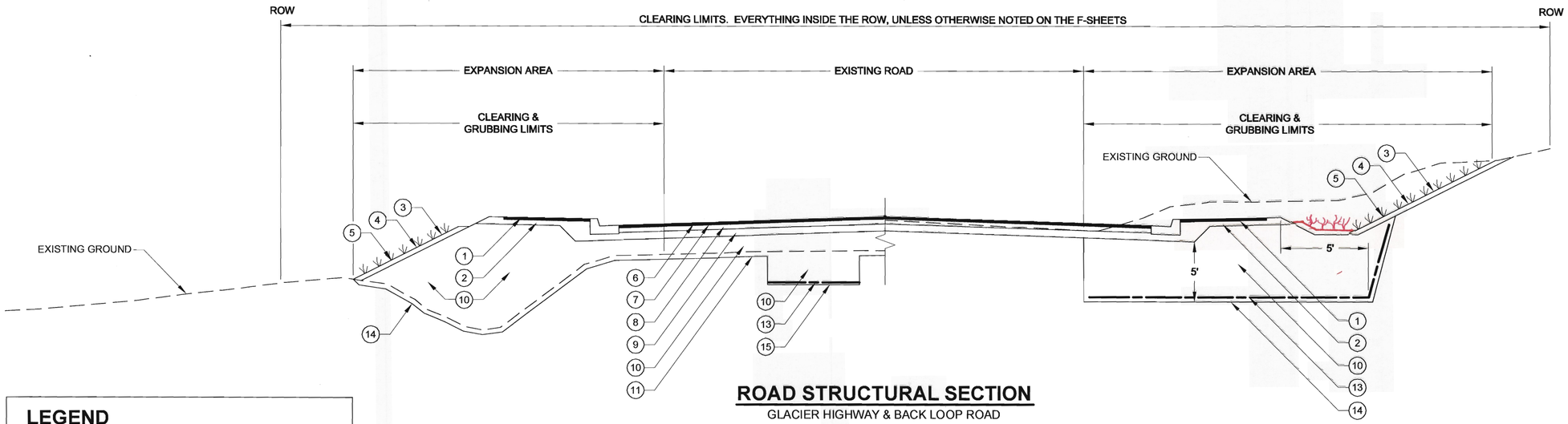
PROJECT ALIGNMENT & SHEET LAYOUT PLAN

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
A3	82

PATH: I:\1289800\DWGS\CSHEETS\1289800_A03.DWG



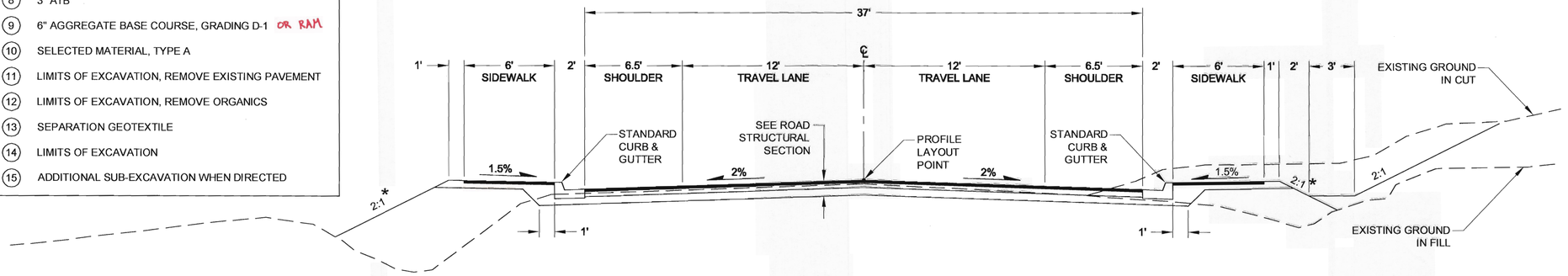
ROAD STRUCTURAL SECTION

GLACIER HIGHWAY & BACK LOOP ROAD

LEGEND

1. 2" ASPHALT SIDEWALK
2. 4" AGGREGATE BASE COURSE, GRADING D-1 OR RAH
3. SLOPE STABILIZATION MATTING
4. BFM & SEED
5. 4" TOPSOIL
6. 2" ASPHALT CONCRETE SP, TYPE B
7. STE-1 ASPHALT FOR TACK COAT
8. 3" ATB
9. 6" AGGREGATE BASE COURSE, GRADING D-1 OR RAH
10. SELECTED MATERIAL, TYPE A
11. LIMITS OF EXCAVATION, REMOVE EXISTING PAVEMENT
12. LIMITS OF EXCAVATION, REMOVE ORGANICS
13. SEPARATION GEOTEXTILE
14. LIMITS OF EXCAVATION
15. ADDITIONAL SUB-EXCAVATION WHEN DIRECTED

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE NXB Date 9/18/15



* SEE GRADING SHEETS G1 - G8 FOR EXCEPTIONS

TYPICAL SECTION

CUT AND FILL TYPICAL BOTH SIDES OF ROADWAY

NOTES:

1. SEE SECTION 203-3.03 FOR EMBANKMENT BENCHING REQUIREMENTS. EMBANKMENT BENCHING NOT SHOWN FOR CLARITY.
2. SEE GRADING SHEETS FOR CURB AND GUTTER GEOMETRY AND LAYOUT POINTS. ROADWAY CROSS SLOPE AND SUPERELEVATION WILL BE CONTROLLED BY GRADING POINTS.
3. SEE STANDARD DRAWING I-20.14, AND PLAN DETAILS FOR DIMENSIONS OF CURB AND GUTTER OF SPECIFIED TYPE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: N:\1289500\DWGS\CS\SHEETS\1289500 B01- B03.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: B1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH — Nathan C. Leigh — CE-8386 — 4/9/13 — REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

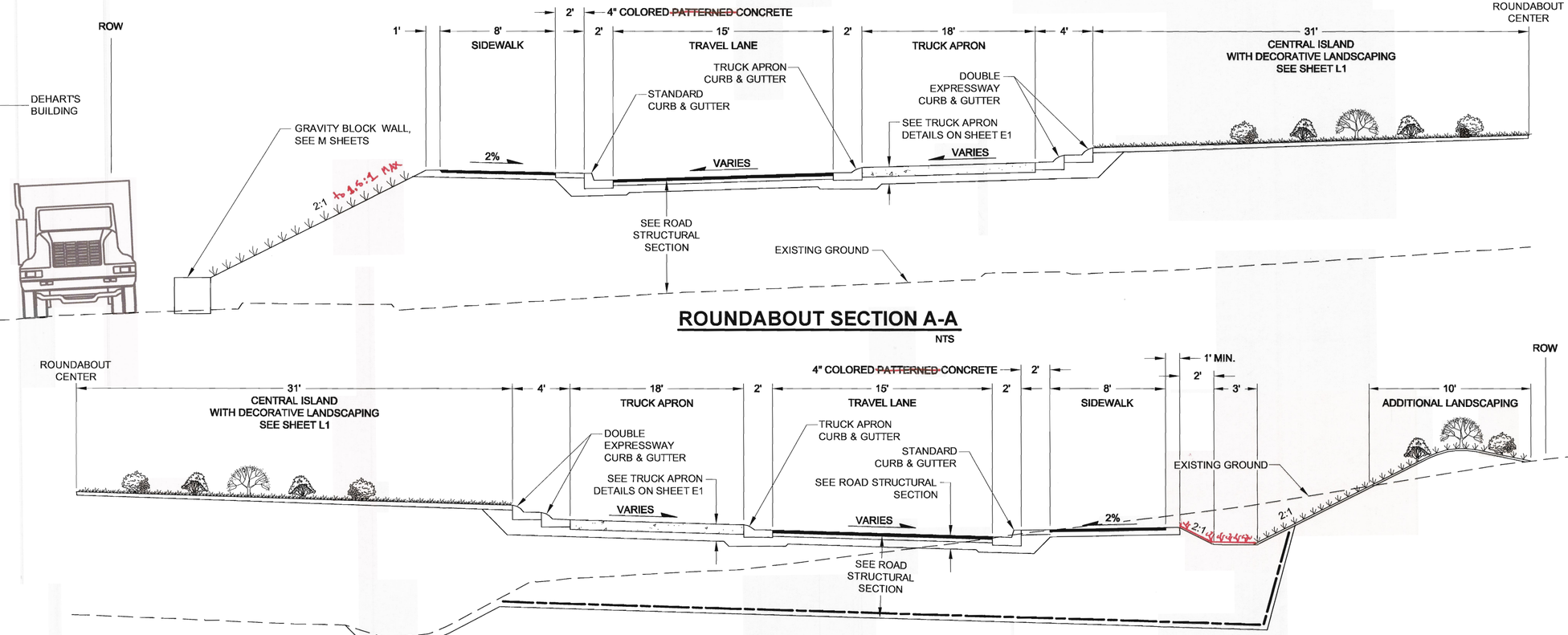
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

TYPICAL SECTIONS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
B1	82

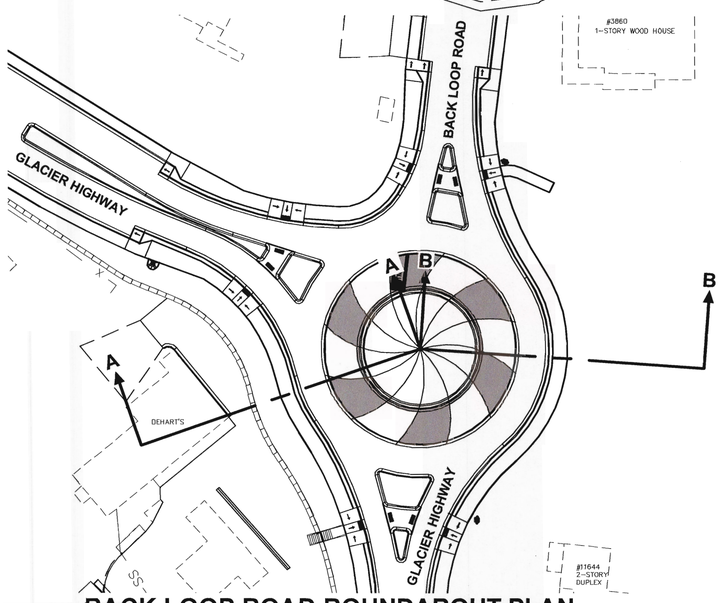


ROUNDABOUT SECTION A-A

NTS

ROUNDABOUT SECTION B-B

NTS



BACK LOOP ROAD ROUNDABOUT PLAN

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE _____ Date 9/12/15

0 80' 160'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:I:\1289500\DWGS\C\SHEETS\1289500 B01- B03.DWG

PREPARED BY: USKH

BILL PADDOCK

TAB: B2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB

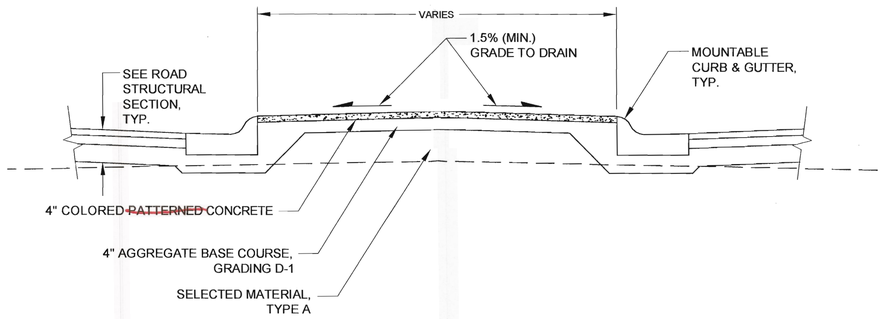
DRAWN BY: M. HIDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

TYPICAL SECTIONS

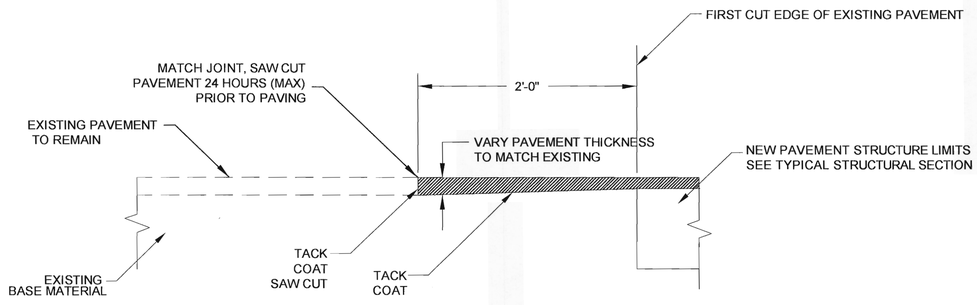
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
B2	82



TRAFFIC ISLAND TYPICAL SECTION

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE ____ Date 9/18/15



PAVEMENT MATCH JOINT DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:I:\1289500\DWGS\C\SHEETS\1289500 B01- B03.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **B3**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB

DRAWN BY: M. HIDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

TYPICAL SECTIONS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
B3	**82**

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY	FINAL QTY
201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED	100%
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED	100%
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	~~12,330~~	11,574
202(3)	REMOVAL OF SIDEWALK	SQUARE YARD	~~629~~	645
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	~~1,662~~	1404
202(6)	REMOVAL OF MANHOLE	EACH	~~4~~	2
202(8)	REMOVAL OF INLET	EACH	~~11~~	12
202(9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	1,105	1,105
202(10)	SINGLE MAILBOX INSTALLATION	EACH	2	2
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	~~6,006~~	3,627
203(5)	BORROW	TON	~~26,000~~	29,738
203(20)	ENVIRONMENTAL MONITOR	LUMP SUM	ALL REQUIRED	100%
203(21)	CONTAMINATED SOIL HANDLING	CONTINGENT SUM	ALL REQUIRED	#0.00
301(1)	AGGREGATE BASE COURSE, GRADING D-1 (C.O.#2)	TON	~~5,006~~	4,242
306(1)	ATB (C.O.#2)	TON	~~1,506~~	2,714
401(1)	ASPHALT CONCRETE, SP, TYPE B	TON	~~1,086~~	1,388
401(2)	ASPHALT CEMENT, GRADE PG 64-28	TON	~~64~~	222
401(3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED	#0.00
402(1)	STE-1 ASPHALT FOR TACK COAT	TON	~~4~~	2.83
~~501(1)~~	~~CLASS A CONCRETE~~ (C.O.#8)	~~LUMP SUM~~	~~ALL REQUIRED~~	DELETED
515(1)	CONCRETE HEADWALL	EACH	~~3~~	4
516(1)	RELOCATE BUS SHELTER	EACH	1	1
530(1)	GRAVITY BLOCK WALL	SQUARE FOOT	~~574~~	909
550 (1)	ACCESS EXPANSION	LUMP SUM	ALL REQUIRED	100%
603(21-8)	8 INCH CORRUGATED POLYETHYLENE PIPE (C.O.#3)	LINEAR FOOT	~~216~~	#4.5
603(21-12)	12 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~12~~	5.5
603(21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE (C.O.#1)	LINEAR FOOT	~~2,037~~	1,650
603(21-24)	24 INCH CORRUGATED POLYETHYLENE PIPE (C.O.#1)	LINEAR FOOT	~~373~~	331
604(1A)	STORM SEWER MANHOLE, TYPE I	EACH	~~20~~	16
604(1B)	STORM SEWER MANHOLE, TYPE II	EACH	~~4~~	2
604(2)	SANITARY SEWER MANHOLE, TYPE II	EACH	2	2
604(3)	RECONSTRUCT EXISTING MANHOLE	EACH	8	8
604(4)	ADJUST EXISTING MANHOLE	EACH	2	2
604(5)	INLET, TYPE A	EACH	~~22~~	25
605(3)	6 INCH PERFORATED PIPE UNDERDRAIN	LINEAR FOOT	~~776~~	503
605(5)	POROUS BACKFILL MATERIAL	CUBIC YARD	~~200~~	161
606(1)	W-BEAM GUARDRAIL	LINEAR FOOT	~~72~~	131
606(6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	56	56
607(5)	DRIVE GATE	EACH	1	1
607(7)	WOOD FENCE	LINEAR FOOT	~~76~~	65
608(1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	~~33~~	130
608(1b)	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	~~433~~	455
608(1c)	CONCRETE SIDEWALK, 8 INCHES THICK	SQUARE YARD	553	553
608(3)	ASPHALT SIDEWALK	SQUARE YARD	~~4,110~~	4,147
608(6)	CURB RAMP	EACH	22	22
~~608(9)~~	~~COLORED PATTERNED CONCRETE, 4 INCHES THICK~~ (C.O.#6)	~~SQUARE YARD~~	~~359~~	DELETED
609(2A)	CURB AND GUTTER	LINEAR FOOT	~~5,158~~	5,182

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY	FINAL QTY
615(1)	STANDARD SIGN	SQUARE FOOT	~~431~~	417
615(5)	DELINEATOR, FLEXIBLE	EACH	22	22
618(4)	SEEDING	SQUARE YARD	~~9,630~~	4,177
619(2)	MATTING	SQUARE YARD	~~3,630~~	1,503
619(3)	BONDED FIBER MATRIX (BFM)	POUND	~~3,170~~	4,140
620(1)	TOPSOIL	SQUARE YARD	~~4,940~~	5,948
621(2)	SHRUB	EACH	~~1,130~~	1,235
621(5)	BARK CHIP GROUND COVER	SQUARE YARD	~~600~~	548
~~625(1)~~	~~PIPE HAND RAIL~~ (C.O.#8)	~~LINEAR FOOT~~	~~94~~	DELETED
~~626(2)~~	~~SEWER SERVICE CONNECTION~~ (C.O.#5)	~~EACH~~	~~6~~	DELETED
627(3)	INSTALL VALVE BOX	EACH	~~11~~	10
627(4)	FIRE HYDRANT ADJUSTMENT	EACH	1	1
627(5)	FIRE HYDRANT INSTALLATION	EACH	2	2
627(7)	FIRE HYDRANT REMOVAL	EACH	2	2
627(8)	WATER SERVICE CONNETCTION	EACH	~~8~~	7
627(9)	INSTALL 6 INCH GATE VALVE	EACH	1	1
627(10)	ADJUSTMENT OF VALVE BOX	EACH	~~3~~	1
627(11-6)	6 INCH HDPE WATER CONDUIT	LINEAR FOOT	~~94~~	100
627(11-16)	16 INCH HDPE WATER CONDUIT	LINEAR FOOT	~~1,183~~	1,136
627(12)	INSTALL 16 INCH BUTERFLY VALVE	EACH	~~10~~	9
~~627(13)~~	~~ABANDON PIPE IN PLACE~~ (C.O.#9)	~~LUMP SUM~~	~~ALL REQUIRED~~	DELETED
630(1)	GEOTEXTILE, SEPARATION	SQUARE YARD	~~1,200~~	1,068
633(2)	SEDIMENT BARRIER	LINEAR FOOT	~~1,880~~	853
635(1)	INSULATION BOARD	MBM	~~1~~	2.02
639(3)	APPROACH	EACH	12	12
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED	100%
641(1)	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION (C.O.#5)	LUMP SUM	ALL REQUIRED	100%
641(3)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED	100%
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED	#0.00
641(7)	SWPPP MANAGER (C.O.#5)	LUMP SUM	ALL REQUIRED	100%
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED	100%
642(3)	THREE PERSON SURVEY PARTY	HOUR	~~40~~	5.84
642(4)	SET PRIMARY MONUMENT	EACH	~~7~~	5
642(5)	SET SECONDARY MONUMENT	EACH	~~16~~	3
642(9)	REFERENCE EXISTING MONUMENT	EACH	~~19~~	7
642(10)	MONUMENT CASE	EACH	~~47~~	5
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED	100%
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED	100%
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED	#247,248.00
643(23)	TRAFFIC PRICE ADJUSTMENT (C.O.#5)	CONTINGENT SUM	ALL REQUIRED	(#330.00)
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED	#69,236.55
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED	100%
660(3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED	100%
661(1)	LOAD CENTER, TYPE 1	EACH	1	1
670(1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED	100%
670(13)	WHEEL STOP	EACH	4	4
682(1)	VAC-TRUCK POTHOLE	CONTINGENT SUM	ALL REQUIRED	#4,423.50
644(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED	100%
644(15)	NUCLEAR TESTING EQUIPMENT STORAGE SHED	LUMP SUM	ALL REQUIRED	100%

WORK ADDED BY CHANGE ORDER (1 of 2)

ITEM	ITEM DESCRIPTION	UNIT	FINAL QTY
202(13)	WASTE REMOVAL (C.O.#3)	L.S.	100%
202(14)	DEEMS' DRIVEWAY CONCRETE REMOVAL (C.O.#9)	L.S.	100%
203(14)	BEDROCK REMOVAL FOR P-86 INSTALL (C.O.#1)	L.S.	100%
203(22)	SETTLEMENT MONITORING PLATE INSTALLATION (C.O.#3)	L.S.	100%
301(5)	RECYCLED ASPHALT MATERIAL (C.O.#2)	TON	3,675
306(4)	ATB NON-CONFORMING GRADATION PRICE REDUCTION (C.O.#4)	L.S.	100%
306(5)	ATB PLAN QUANTITY OVERRUN (C.O.#4)	L.S.	100%
501(2)	ABANDON EXISTING COMMUNICATIONS VAULT (C.O.#8)	L.S.	100%
501(11)	ABANDON COMMUNICATIONS VAULT MANHOLE ACCESS (C.O.#9)	L.S.	100%
606(5)	60" WIDE WOODEN STAIRWAY (C.O.#8)	L.S.	100%
530(2)	GRAVITY BLOCK WALL REALIGNMENT (C.O.#3)	L.S.	100%
603(21-12)	18" CORRUGATED POLYETHYLENE HP PIPE (C.O.#1)	L.F.	255

ESTIMATING FACTORS

ITEM NO.	ITEM	FACTOR/QUANTITY	
203(6)	BORROW	1.9	ton/cy
301(1)	AGGREGATE BASE COURSE, GRADING D-1	1.96	ton/cy
306(1)	ATB	117	lb / sq yd / inch
401(1)	ASPHALT CONCRETE, SP, TYPE B	117	lb / sq yd / inch
401(2) a	ASPHALT CEMENT, GRADE PG 64-28	6.00%	of 401(1)
401(2) b	ASPHALT CEMENT, GRADE PG 64-28	4.50%	of 306(1)
402(1)	STE-1 ASPHALT FOR TACK COAT	0.1	Gal. / sq yd
402(1)	STE-1 ASPHALT FOR TACK COAT	243	Gal. / Ton
608(3)	ASPHALT SIDEWALK	117	lb / sq yd / inch
619(3)	BONDED FIBER MATRIX (BFM)	4000	lb / acre

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE ____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: C1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/3/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, B. PADDOCK, W. WEBB

DRAWN BY: M. HIDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

ESTIMATE OF QUANTITIES

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
C1	82

PATH:I:\1289500\DWGS\C\SHEETS\1289500 C01.DWG

WORK ADDED BY CHANGE ORDER (2 of 2)

ITEM NO.	ITEM DESCRIPTION	UNIT	FINAL QTY
603(21-24a)	24" CORRUGATED POLYETHYLENE HP PIPE (C.O. #1)	L.F.	54
604(8)	MANHOLE INVERT COVERS (C.O. #1)	EACH	6
604(10)	STORM DRAIN FIELD REVISIONS (C.O. #3)	L.S.	100%
604(11)	CONCRETE STRUCTURE MODIFICATIONS (C.O. #3)	L.S.	100%
605(3a)	UNDERDRAIN GEOTEXTILE (C.O. #3)	L.F.	503
608(1d)	COLORED CONCRETE SIDEWALK, 4 INCHES THICK (C.O. #6)	S.Y.	359
608(6a)	ADDITIONAL DETECTABLE WARNINGS (C.O. #5)	EACH	6
626(2a)	STATTER HARBOR SEWER SERVICE CONNECTION (C.O. #3)	L.S.	100%
626(3)	SANITARY SEWER SERVICE REPAIRS (C.O. #3)	L.S.	100%
627(13a)	PLUG ENDS OF EXISTING WATER MAIN FOR ABANDONMENT (#9)	L.S.	100%
627(14)	AEL&P EXISTING WATER SERVICE LOCATE (C.O. #3)	L.S.	100%
641(8)	MISCELLANOUS SLOPE STABILIZATION (C.O. #9)	L.S.	100%
643(30)	DAILY TRAFFIC MAINTENANCE (C.O. #5)	DAY	69
660(11)	FLASHING SCHOOL ZONE BEACON SYSTEM (C.O. #5)	L.S.	100%
660(2a)	FLASHING SCHOOL BEACON TEMPORARY SERVICE (C.O. #3, #9)	L.S.	100%
660(15)	LP #9 FOUNDATION EXTENSION (C.O. #8)	L.S.	100%
660(16)	MISC. HIGHWAY LIGHTING WORK (C.O. #9)	L.S.	100%
670(14)	TEMP. PAINTED TRAFFIC MARKINGS (C.O. #2)	L.S.	100%

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE [signature] Date 9/18/15

Quantities
#69003 Glacier HWY & Back Loop Road Intersection Safety Improvements

C2

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS - LUMP SUM

BEGIN		END		DESCRIPTION
STATION	OFFSET	STATION	OFFSET	
123+29.0	42.7' LT	123+75.0	42.0' LT	CONC. GARAGE SLAB
143+00.0	34.0' LT	-		BUS STOP SHELTER W/CONC. SLAB. SALVAGE SHELTER, REMOVE AND DISPOSE OF SLAB.
118+35.9	27.0' LT	-		SALVAGE EXISTING LUMINAIRES. REMOVE AND DISPOSE OF BASES, CONDUITS AND OTHER HARDWARE.
119+80.7	29.6' RT	-		
119+95.8	18.4' LT	-		
121+08.2	0.4' LT	-		
122+63.1	28.3' RT	-		
142+37.1	25.5' RT	-		
144+17.3	23.6' LT	-		
150+32.0	50.2' LT	-		REMOVE AND DISPOSE OF EXISTING GATE
151+04.0	64.1' LT	-		REMOVE AND DISPOSE OF EXISTING GATE

202(3) REMOVAL OF SIDEWALK - SQUARE YARD

BEGIN		END		QUANTITY	REMARKS
STATION	OFFSET	STATION	OFFSET		
117+02.0	18.6' RT	119+85.1	19.8' RT	178	
118+09.1	43.3' LT	119+59.7	57.4' LT	109	
119+76.1	14.3' LT	121+24.2	0.9' RT	64	
120+92.5	70.8' LT	121+32.7	48.5' LT	51	
121+37.0	25.6' RT	124+99.5	25.9' RT	226	
			TOTAL:	629	

202(4) REMOVAL OF CULVERT PIPE - LINEAR FOOT

BEGIN	END			QUANTITY	REMARKS
	OFFSET	STATION	OFFSET		
119+15.1	51.4' LT	118+29.9	61.5' LT	90	
119+52.9	49.8' LT	119+15.1	51.4' LT	38	
119+96.3	20.7' RT	118+52.3	13.2' RT	142	
120+09.1	26.8' LT	119+96.3	20.7' RT	49	
120+26.3	99.6' LT	119+52.9	49.8' LT	89	
120+96.0	14.7' RT	121+23.4	46.9' LT	67	
121+28.0	46.3' RT	120+96.0	14.7' RT	45	
124+03.5	20.4' RT	124+69.2	21.4' RT	66	
124+05.8	33.8' RT	124+03.5	20.4' RT	14	
142+90.6	46.7' RT	119+96.3	20.7' RT	158	
142+94.7	58.6' RT	142+90.6	46.7' RT	13	
142+96.9	26.5' RT	142+68.4	26.9' RT	29	
143+60.7	28.8' RT	143+03.1	26.6' RT	58	
144+04.5	32.1' LT	142+83.0	28.2' LT	121	
144+45.8	29.0' RT	144+06.7	27.0' RT	38	
144+78.4	24.6' LT	144+07.7	31.7' LT	73	
146+05.5	30.8' RT	145+70.6	31.0' RT	34	
146+72.6	29.5' LT	145+69.2	26.5' LT	106	
147+03.8	30.2' LT	146+84.3	31.9' LT	20	
147+66.4	29.1' LT	147+27.4	30.3' LT	40	
148+22.8	30.5' LT	147+87.9	32.3' LT	36	
149+01.3	32.5' LT	148+64.7	31.7' LT	38	
150+52.7	31.0' LT	149+33.0	31.8' LT	123	
150+56.0	46.5' LT	150+53.8	36.0' LT	11	
150+62.7	45.3' LT	150+59.4	34.5' LT	12	
151+22.1	33.5' LT	150+78.2	32.9' LT	45	
152+04.1	31.2' LT	151+62.2	25.3' LT	43	
152+45.5	31.4' LT	152+04.1	31.2' LT	42	
152+64.6	99.9' LT	152+54.1	94.6' LT	12	
TOTAL:				1652	

202(6) REMOVAL OF MANHOLE - EACH

STATION	OFFSET	REMARKS
118+52.5	13.0' RT	
119+15.1	51.4' LT	
134+60.4	22.2' RT	
149+54.6	22.1' RT	
TOTAL:	4	

202(8) REMOVAL OF INLET - EACH

STATION	OFFSET	REMARKS
118+51.9	16.9' RT	CURB INLET
118+97.6	46.3' LT	FIELD INLET
119+52.9	49.8' LT	CURB INLET
119+96.3	20.7' RT	FIELD INLET
120+09.1	26.8' LT	FIELD INLET
120+96.0	14.7' RT	FIELD INLET
121+23.4	46.9' LT	CURB INLET
121+28.0	46.3' RT	FIELD INLET
124+03.5	20.4' RT	CURB INLET
124+05.8	33.8' RT	FIELD INLET
152+04.1	31.2' LT	CURB INLET
TOTAL:	11	

202(9) REMOVAL OF CURB AND GUTTER - LINEAR FOOT

BEGIN		END		QUANTITY	REMARKS
STATION	OFFSET	STATION	OFFSET		
117+02.0	18.6' RT	119+86.9	19.6' RT	287	
118+17.3	31.2 LT	119+05.0	40.6' LT	214	
119+79.9	12.6' LT	121+20.5	2.8' RT	130	
120+92.4	70.9' LT	121+32.8	48.4' LT	109	ISLAND
121+36.8	25.4' RT	124+99.0	22.3' RT	365	
			TOTAL:	1,105	

202(10) SINGLE MAILBOX INSTALLATION - EACH

EXISTING LOCATION		NEW LOCATION		REMARKS
STATION	OFFSET	STATION	OFFSET	
122+43.8	31.5' LT	123+50.0	35.4' LT	
147+91.2	28.7' LT	147+31.0	28.5' RT	
TOTAL:	2			

401(1) ASPHALT CONCRETE, SP, TYPE B - TON

LOCATION	QUANTITY	REMARKS
GLACIER HIGHWAY, BACKLOOP ROAD, & ROUNDABOUT	905	
HARBOR DRIVE	55	
CAROLINE STREET	20	
BUS YARD DRIVE	20	
AUKE LAKE WAY	60	
TOTAL:	1,060	

501(1) CLASS A CONCRETE - LUMP SUM

STATION	OFFSET	CY	REMARKS
119+26	40' LT	2.4	CONCRETE STAIRS
~~142+10~~	~~15' LT~~	~~25.2~~	~~CONCRETE UTILITY VAULT~~
TOTAL		~~28.6~~ 2.4	

530(1) GRAVITY BLOCK WALL - SQUARE FOOT

BEGIN		END		QUANTITY	REMARKS
STATION	OFFSET	STATION	OFFSET		
118+35.7	32.6' LT	122+82.3	39.7' LT	924	
150+12.0	49.2' LT	150+12.9	69.2' LT	50	
			TOTAL:	974	

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE HLH Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: D1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, B. PADDOCK, W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
D1	82

PATH:H:\1289500\DWGS\C\SHEETS\1289500 D01-D05.DWG

603(21) PIPE - LINEAR FOOT *

PIPE NO.	SIZE	LENGTH	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE	REMARKS
P-10	18"	9.80'	S-14	45.17		45.38	-2.24%	
P-11	18"	72.75'	S-10	49.16	S-11	48.43	1.00%	
P-12	18"	8.20'	S-12	49.50	S-11	49.42	1.00%	
~~P-13~~	~~18"~~	~~31.93'~~	~~S-11~~	~~48.33~~	~~S-13~~	~~48.01~~	~~1.00%~~	
P-14	18"	~~27.39'~~ 49.50	~~S-13~~ S-11	47.91	S-14	47.65	~~0.94%~~	1.89%
P-15	24"	83.95'	S-15	49.91	S-14	48.23	2.00%	
P-16	24"	89.27'	S-16	52.36	S-15	51.47	1.00%	
P-17	24"	125.41'	S-17	53.71	S-16	52.46	-1.00%	
P-18	18"	35.18'	S-18	~~57.32~~ 54.47	S-17	~~55.91~~ 53.81	1.00%	
P-19	18"	63.10'	S-19	~~59.15~~ 56.26	S-18	~~57.92~~ 54.36	~~3.00%~~	1.00%
P-20	18"	47.94'	S-96	68.39	S-19	58.08	21.50%	ADS N-12 HP 18" CPP
P-21	18"	80.58'	S-21	76.00	S-20	69.98	7.47%	
P-22	18"	112.78'	S-22	84.00	S-21	76.11	7.00%	
P-23	18"	139.74'	S-23	96.67	S-22	84.09	9.00%	
P-24	18"	98.33'	S-24	103.37	S-23	96.98	6.50%	
P-25	18"	58.21'	S-25	105.80	S-24	103.47	4.00%	
P-26	18"	13.06'	S-26	106.10	S-25	105.97	1.00%	
P-27	18"	78.81'	S-27	106.99	S-26	106.20	1.00%	
P-28	18"	77.72'	S-28	115.44	S-27	111.56	5.00%	
P-29	18"	27.97'	S-29	116.20	S-28	115.36	3.00%	
P-30	18"	108.02'	S-30	119.90	S-29	116.66	3.00%	
~~P-31~~	~~18"~~	~~11.67'~~	~~END CAP~~	~~120.35~~	~~S-30~~	~~120.00~~	~~3.00%~~	
P-40	24"	52.19'	S-41	39.83	S-40	36.69	6.00%	ADS N-12 HP 24" CPP
P-41	24"	22.33'	S-14	45.04	S-41	~~40.02~~ 45.37	~~22.50%~~	0.50%
P-43	18"	32.52'	S-43	47.33	S-14	45.38	6.00%	
P-51	18"	78.61'	S-51	54.98	S-52	54.19	1.00%	
P-52	18"	16.22'	S-52	54.09	S-54	53.93	1.00%	
P-53	18"	16.83'	S-53	53.95	S-54	53.79	1.00%	
P-54	18"	80.98'	S-54	53.67	S-15	52.05	2.00%	

603(21) PIPE - LINEAR FOOT *

PIPE NO.	SIZE	LENGTH	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE	REMARKS
P-55	18"	16.46'	S-55	50.20	S-15	50.04	1.00%	
~~P-60~~	18"	30.10'	S-60	57.90	S-61	57.60	1.00%	
P-61	18"	15.73'	S-61	57.50	S-17	56.56	6.00%	
P-62	18"	8.51'	EXISTING	60.45	S-17	57.64	33.00%	
P-63	18"	37.33'	S-62	59.76	S-63	59.20	1.50%	
P-64	18"	5.74'	S-63	59.10	S-18	58.87	4.00%	
P-65	18"	31.23'	S-90	60.56	S-64	59.62	3.00%	ADS N-12 HP 18" CPP
P-66	18"	49.14'	S-64	~~59.52~~ 59.72	S-19	~~59.05~~ 58.35	3.00%	
P-67	18"	20.57'	S-65	71.06	S-20	69.98	5.25%	
P-68	18"	14.68'	S-20	69.88	S-96	68.49	9.50%	
P-69	18"	53.09'	S-92	87.70	S-66	87.17	1.00%	ADS N-12 HP 18"CPP
P-70	18"	14.43'	S-66	87.07	S-22	85.02	14.18%	
P-80	18"	14.91'	S-67	97.86	S-23	96.77	7.36%	
P-81	18"	~~20.76'~~ 60.0'	~~S-70~~	107.74	~~S-71~~ S-27	107.53	~~1.00%~~	0.50% , ADS N-12 HP 18" CPP
~~P-82~~	~~18"~~	~~35.33'~~	~~S-71~~	~~107.44~~	~~S-27~~	~~107.09~~	~~1.00%~~	
~~P-83~~	~~12"~~	~~12.00'~~		~~122.20~~		~~121.96~~	~~2.00%~~	
P-84	18"	13.77'	EXISTING	120.89	EXISTING	120.10	5.76%	CONNECT EXISTING CULVERTS
P-85	18"	58.94'	EXISTING	118.69	S-72	117.96	1.23%	ADS N-12 HP 18" CPP
P-86	18"	24.80'	S-72	117.86	S-29	116.66	4.83%	
~~P-89~~	~~18"~~	~~4.17'~~	~~END CAP~~	~~107.80~~	~~S-76~~	~~107.76~~	~~1.00%~~	
P-90	18"	9.30'	S-80	43.86	S-81	43.58	3.00%	
P-92	18"	58.67'	S-81	42.79	EXISTING	42.50	0.50%	
P-95	18"	76.12'	S-95	42.60	S-40	39.56	4.00%	
P-100	18"	40.00'		96.00		93.40	6.50%	
~~P-200~~	~~8"~~	~~215.67'~~	~~COMM. VAULT~~	~~44.75~~	~~S-41~~	~~42.60~~	~~1.00%~~	

TOTAL:	603 (21-8) 8 INCH PIPE	216
TOTAL:	603 (21-12) 12 INCH PIPE	12
TOTAL:	603 (21-18) 18 INCH PIPE	2,007
TOTAL:	603 (21-24) 24 INCH PIPE	373

* PIPE INVERTS, SLOPES, & LENGTHS WERE NOT CONFIRMED BY SURVEY OF AS-BUILT CONDITIONS.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE ____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:H:\1289500\DWGS\CS\SHEETS\1289500 D01-D05.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **D2**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

DESIGNED BY: R. KRAEMER, B. PADDOCK, W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
D2	**82**

STORM DRAIN STRUCTURES - EACH ✳

STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	NORTHING	EASTING	RIM ELEVATION	TYPE OF CASTING
S-10	STORM SEWER MANHOLE TYPE I	117+23.45	19.50 RT	510694.29	485646.69	54.12	GCBI
S-11	INLET TYPE A	117+97.69	29.36 RT	510769.12	485659.59	53.00	FIFG
S-12	INLET TYPE A	117+96.21	19.50 RT	510767.81	485649.71	52.90	GCBI
S-13	~~STORM SEWER MANHOLE TYPE I~~ INLET TYPE A	118+32.19	29.59 RT	510804.21	485660.12	53.09	FIFG
S-14	STORM SEWER MANHOLE TYPE I	118+58.30	13.00 RT	510830.34	485643.33	53.19	GCBI
S-15	STORM SEWER MANHOLE TYPE II	119+47.29	24.57 RT	510917.46	485659.56	55.98	GCBI
S-16	STORM SEWER MANHOLE TYPE I	120+29.04	70.84 RT	510995.87	485711.28	58.81	GCBI
S-17	STORM SEWER MANHOLE TYPE I	142+92.91	34.72 RT	511123.18	485690.04	61.83	BHIFG
S-18	STORM SEWER MANHOLE TYPE I	143+31.14	27.91 RT	511161.95	485687.83	63.28	MHFL
S-19	STORM SEWER MANHOLE TYPE I	143+97.81	33.10 RT	511227.41	485700.93	66.15	BHIFG
S-20	STORM SEWER MANHOLE TYPE II	144+69.00	37.50 RT	511294.71	485715.99	(TBD)	MHFL
S-21	INLET TYPE A	145+56.20	34.90 RT	511377.28	485732.71	78.48	BHIFG
S-22	INLET TYPE A	146+75.14	35.60 RT	511485.90	485770.34	88.36	BHIFG
S-23	INLET TYPE A	148+22.63	36.08 RT	511613.76	485833.04	100.47	BHIFG
S-24	INLET TYPE A	149+27.09	34.11 RT	511699.79	485885.95	107.21	BHIFG
S-25	INLET TYPE A	149+90.00	34.22 RT	511748.21	485922.86	109.36	BHIFG
S-26	INLET TYPE A	149+90.00	19.50 RT	511757.46	485911.40	111.29	HCGCBI
S-27	STORM SEWER MANHOLE TYPE I	150+73.53	19.50 RT	511819.19	485965.34	115.39	HCGCBI
S-28	INLET TYPE A	151+55.96	19.51 RT	511875.77	486023.16	119.01	HCGCBI
S-29	STORM SEWER MANHOLE TYPE I	151+85.55	8.45 RT	511903.39	486037.77	120.68	MHFL
S-30	INLET TYPE A	152+96.19	19.52 RT	511967.14	486128.87	123.41	HCGCBI
S-40	STORM SEWER MANHOLE TYPE I	118+29.93	61.50 LT	510801.90	485569.04	49.04	GCBI
S-41	STORM SEWER MANHOLE TYPE I	118+58.07	13.00 LT	510829.97	485617.33	52.69	GCBI
S-43	INLET TYPE A	118+88.50	33.63 RT	510858.60	485664.67	51.46	BHIFG
S-51	INLET TYPE A	121+18.22	32.97 RT	511074.30	485580.63	58.48	GCBI
S-52	STORM SEWER MANHOLE TYPE I	120+75.91	37.17 LT	510993.34	485588.28	57.95	GCBI
S-53	STORM SEWER MANHOLE TYPE I	120+81.02	57.23 LT	510977.07	485575.82	57.45	GCBI
S-54	STORM SEWER MANHOLE TYPE I	120+57.45	49.56 LT	510975.10	485596.22	57.68	GCBI
S-55	INLET TYPE A	119+42.95	44.21 RT	510911.78	485678.86	53.67	BHIFG
S-60	INLET TYPE A	142+80.94	13.61 LT	511117.06	485640.63	61.46	GCBI
S-61	STORM SEWER MANHOLE TYPE I	142+81.32	19.17 RT	511113.52	485673.21	61.56	GCBI
S-62	INLET TYPE A	143+31.20	19.50 LT	511167.66	485640.77	63.26	HCGCBI
S-63	INLET TYPE A	143+31.20	19.50 RT	511163.01	485679.49	62.75	HCGCBI
S-64	STORM SEWER MANHOLE TYPE I	144+02.56	19.50 LT	511238.66	485649.33	69.33	HCGCBI
S-65	STORM SEWER MANHOLE TYPE I	144+86.75	19.17 RT	511315.25	485701.41	75.14	HCGCBI
S-66	INLET TYPE A	146+74.83	19.50 RT	511491.63	485755.30	90.70	HCGCBI
S-67	INLET TYPE A	148+22.61	19.50 RT	511622.00	485818.66	101.39	HCGCBI
S-70	INLET TYPE A	150+73.53	42.93 LT	511862.08	485919.98	110.50	BHIFG
~~S-71~~	~~STORM SEWER MANHOLE TYPE I~~	~~150+73.53~~	~~19.50 LT~~	~~511845.99~~	~~485937.06~~	~~117.15~~	~~HCGCBI~~
S-72	INLET TYPE A	151+85.55	19.52 LT	511924.59	486019.53	121.80	HCGCBI
S-80	INLET TYPE A	124+03.48	36.47 RT	511220.00	485339.58	46.61	BHIFG
S-81	INLET TYPE A	124+03.48	25.50 RT	511210.67	485333.82	47.54	GCBI
S-90	CONCRETE HEADWALL	144+24.12	43.97 LT	511264.01	485628.13	63.70	TRASH RACK
S-92	CONCRETE HEADWALL	146+74.83	34.50 LT	511511.81	485705.21	89.70	TRASH RACK
S-95	STORM SEWER MANHOLE TYPE I	119+05.43	63.63 LT	510881.68	485568.72	46.52	GIFG
S-96	INLET TYPE A	144+50.00	36.78 RT	511276.80	485711.98	71.30	BHIFG
TOTAL:	604(1A) STORM SEWER MANHOLE, TYPE I	19					
TOTAL:	604(1A) STORM SEWER MANHOLE, TYPE II	2					
TOTAL:	604(5) INLET, TYPE A	23					
TOTAL:	515(1) CONCRETE HEADWALL	2					

CASTING ACRONYMS:

FIFG = FIELD INLET FRAME AND GRATE
BHIFG = BEE HIVE INLET FRAME AND GRATE
GCBI = GRATE AND CURB BOX INLET
HCGCBI = HIGH CAPACITY GRATE AND CURB BOX INLET
MHFL = MANHOLE FRAME AND LID

NOTES:

1. BEEHIVE INLETS SHALL BE NEENAH FOUNDRY, R-2560-EB OR APPROVED EQUAL.
2. CONSTRUCT CONCRETE HEADWALLS PER CBJ STANDARD DETAIL 104A.
3. CONSTRUCT CONCRETE PAD PER CBJ STANDARD DETAIL 310 ON ALL FIFG AND BHIFG.
4. (TBD) = TO BE DETERMINED IN THE FIELD.

604(2) SANITARY SEWER MANHOLE, TYPE II - EACH ✳

STATION	OFFSET	RIM ELEV.	REMARKS
134+60.4	22.2' RT	64.96	ROTATE CONE TO GET MAX. CLEARANCE FROM BACK OF CURB
149+54.6	22.1' RT	109.87	ROTATE CONE TO GET MAX. CLEARANCE FROM BACK OF CURB
TOTAL	2		

CONTRACTOR TO FIELD VERIFY INVERT ELEVATIONS OF INLET AND OUTLET PIPES.
ELEVATIONS OF EXISTING STRUCTURES ARE APPROXIMATE ONLY.

604(3) RECONSTRUCT EXISTING MANHOLE - EACH ✳

STATION	OFFSET	RIM ELEV.	REMARKS
117+82.9	19.2' RT	52.89	REPLACE TOP CONE SECTION AND ROTATE, RECONSTRUCT LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
120+25.8	18.9' RT	60.27	REMOVE REDUCING SLAB, ADD BARREL AND CONE SECTIONS, EXTEND LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
123+08.3	19.2' RT	50.73	REPLACE TOP BARREL SECTION AND ROTATE, RECONSTRUCT LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
144+60.5	19.2' RT	72.85	REPLACE TOP BARREL SECTION AND ROTATE, RECONSTRUCT LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
145+80.7	22.8' RT	83.70	REPLACE TOP BARREL SECTION AND ROTATE, RECONSTRUCT LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
147+60.4	22.4' RT	97.58	REPLACE TOP BARREL SECTION AND ROTATE, RECONSTRUCT LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
151+83.3	20.0' RT	120.11	REPLACE TOP BARREL SECTION AND ROTATE, RECONSTRUCT LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
152+25.0	22.5' RT	121.72	REPLACE TOP BARREL SECTION, EXTEND LADDER, REPLACE MANHOLE FRAME, LID AND ADJUSTMENT RING, ADJUST TO GRADE
TOTAL	8		

604(4) ADJUST EXISTING MANHOLE - EACH ✳

STATION	OFFSET	REMARKS
145+62.3	14.1' LT	TELEPHONE VAULT
149+49.4	17.8' LT	TELEPHONE VAULT
TOTAL	2	

✳ STRUCTURE LOCATIONS & RIM ELEVATIONS WERE NOT CONFIRMED BY SURVEY OF AS-BUILT CONDITIONS.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
JORDAN HALL

TAB: D3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

DESIGNED BY: R. KRAEMER, B. PADDOCK, W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
D3	82

PATH: H:\1289500\DWGS\CS\SHEETS\1289500_D01-D05.DWG

605(3) 6 INCH PERFORATED PIPE UNDERDRAIN - LINEAR FOOT

FROM STRUCTURE OR STATION	FROM STRUCTURE OR OFFSET	TO STRUCTURE OR STATION	TO STRUCTURE OR OFFSET	LENGTH	REMARKS
117+74.0	28.2' RT	S-11		52	INSTALL CLEANOUT AT 117+47
S-11		S-13		35	
S-13		S-43		55	
S-43		S-53		55	
S-53		~~S-17~~ STA: 142+62	~~S-17~~ OFF: 43.2RT	~~234~~ 204	INSTALL CLEANOUT AT 142+62
~~S-17~~		~~S-18~~		~~39~~	
~~S-18~~		~~S-19~~		~~67~~	
121+63.0	40.9' RT	S-80		239	
			TOTAL:	776	

NOTE: LOCATIONS DO NOT INDICATE FLOW DIRECTION. SLOPE PIPES TO MATCH DITCH FLOW LINE. 5% (MIN.)

606(1) W-BEAM GUARDRAIL - LINEAR FOOT

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	LENGTH (FT)	REMARKS
117+95.8	92.4' LT	118+55.82	131.3' LT	72	
			TOTAL	72	

606(6) REMOVING AND DISPOSING OF GUARDRAIL - LINEAR FOOT

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	LENGTH (FT)	REMARKS
117+95.8	92.4' LT	118+53.3	93.7' LT	56	
			TOTAL	56	

607(5) DRIVE GATE - EACH

STATION	REMARKS
150+32.0, 50.2' LT	40' DOUBLE SWING GATE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/16/15

607(7) WOOD FENCE - LINEAR FOOT

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	LENGTH (FT)	REMARKS
121+99.1	52.8' LT	122+31.4	44.1' LT	40	MATCH CONSTRUCTION PATTERN OF EXISTING FENCE
122+57.5	42.9' LT	122+92.8	42.3' LT	35	
			TOTAL	75	

608(3) ASPHALT SIDEWALK - SQUARE YARD

BEGIN STATION	BEGIN OFFSET	END STATION	END OFFSET	QUANTITY	DESCRIPTION
117+02.0	21.4' RT	117+97.7	23.5' RT	63.7	SIDEWALK
118+04.5	71.2' LT	121+74.7	49.2' LT	1744.9	DEHART'S PARKING LOT
118+15.0	26.5' RT	-		10.6	DRIVEWAY, LOT 1
118+18.8	27.6' LT	118+47.6	23.5' LT	19.6	SIDEWALK
118+32.3	23.5' RT	118+47.7	23.5' RT	10.5	SIDEWALK
118+59.5	21.0' LT	119+22.3	27.9' LT	61.0	SIDEWALK
118+59.9	21.1' RT	119+21.8	22.1' RT	57.6	SIDEWALK
119+40.8	28.3' RT	142+63.1	33.0' RT	185.7	SIDEWALK
119+40.9	34.7' LT	121+27.0	25.4' LT	109.5	SIDEWALK
121+24.9	38.1' RT	142+61.4	25.9' LT	50.2	SIDEWALK
121+44.6	32.4' RT	121+96.1	27.0' RT	52.6	SIDEWALK
121+45.3	19.0' LT	121+92.8	21.1' LT	48.8	SIDEWALK
122+04.3	24.7' LT	123+45.5	29.5' LT	94.8	SIDEWALK
122+08.3	29.0' RT	124+14.3	29.5' RT	136.8	SIDEWALK
123+63.0	32.5' LT	-		166.4	DRIVEWAY, DEEMS
123+80.5	29.5' LT	124+53.3	29.5' LT	48.5	SIDEWALK
124+33.8	32.5' RT	-		24.2	DRIVEWAY, UAS BOOKSTORE
124+53.5	29.5' RT	124+99.5	25.9' RT	29.9	SIDEWALK
142+73.7	33.1' RT	142+68.0	62.2' RT	20.1	UAS CAMPUS PATH
142+80.4	20.7' LT	143+17.7	21.0' LT	35.7	SIDEWALK
142+81.8	26.3' RT	143+17.7	21.3' RT	34.8	SIDEWALK
143+29.7	23.5' RT	143+88.9	23.5' RT	39.4	SIDEWALK
143+41.7	26.5' LT	-		26.4	DRIVEWAY, THREA
143+59.7	23.5' LT	144+56.4	23.5' LT	65.4	SIDEWALK
144+57.2	27.0' RT	152+03.4	36.7' RT	488.9	SIDEWALK
144+75.5	26.5' LT	-		17.7	DRIVEWAY, AEL&P
144+94.5	23.5' LT	145+70.7	23.5' LT	51.9	SIDEWALK
145+92.8	26.5' LT	-		31.9	DRIVEWAY, AEL&P
146+14.8	23.5' LT	147+25.3	23.5' LT	75.3	SIDEWALK
147+49.4	26.5' LT	-		41.4	DRIVEWAY, LOT U
147+73.5	23.5' LT	149+94.9	23.5' LT	150.9	SIDEWALK
150+69.1	23.5' LT	151+12.8	27.5' LT	30.0	SIDEWALK
151+32.3	27.5' LT	151+98.7	29.8' LT	46.8	SIDEWALK
152+12.4	52.0' RT	152+11.0	73.0' RT	13.7	SIDEWALK CONNECTION TO UAS CAMPUS PATH
152+81.3	25.0' LT	152+98.5	35.1' LT	14.3	SIDEWALK CONNECTION TO UAS HOUSING PATH
152+87.2	24.3' RT	152+94.7	23.5' RT	5.0	SIDEWALK
			TOTAL:	4110	

625(1) PIPE HAND RAIL SUMMARY - LINEAR FOOT

STATION	OFFSET	LENGTH (FT)	REMARKS
~~119+25~~	~~40' LT~~	~~34~~	~~CONCRETE STAIRS. SEE STD. DWG M-01.00~~
			DELETED

626(2) SEWER SERVICE CONNECTION - EACH

STATION	OFFSET	REMARKS
~~118+09.3~~	~~32.3' RT~~	
~~118+91.3~~	~~46.9' LT~~	~~REPLACE TO 10'+ PAST NEW WATERMAIN~~
~~122+03.8~~	~~44.8' LT~~	
~~122+69.1~~	~~43.4' RT~~	
~~123+03.4~~	~~65.1 LT~~	~~REPLACE TO BACK OF EASEMENT~~
~~141+87.8~~	~~94.0' RT~~	~~CLEANOUT DOES NOT GO TO PROPERTY LINE TO KEEP CONSTRUCTION LIMITS INSIDE ROW~~
TOTAL	~~6~~	ALL DELETED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:d:\1289500\DWGS\CIS\HEETS\1289500 D01-D05.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **D4**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, B. PADDOCK, W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
D4	**82**

627(3) INSTALL VALVE BOX - EACH
627(9) INSTALL 6 INCH GATE VALVE - EACH
627(12) INSTALL 13 INCH BUTTERFLY VALVE - EACH

FROM		SIZE AND TYPE			REMARKS
STATION	OFFSET	627(3) VALVE BOX	627(11-6) 6" GV	627(12) 16" BFV	
117+88.2	16.2' LT	1		1	
121+78.3	19.4' LT	3		3	
124+17.6	29.5' LT	2		2	
144+16.6	27.7' LT	2	1	1	
146+97.1	21.5' LT	1		1	
146+97.1	24.1' LT	1		1	TEMPORARY VALVE FOR PHASING
124+17.0	14.0' LT	~~1~~ 0		~~1~~ 0	TEMPORARY VALVE FOR PHASING
TOTAL:		~~11~~ 10	1	~~10~~ 9	

627(4) FIRE HYDRANT ADJUSTMENT - EACH

STATION	OFFSET	REMARKS
151+72.0	31' LT	
TOTAL:	1	

627(5) FIRE HYDRANT INSTALLATION - EACH

STATION	OFFSET	REMARKS
122+02.1	31' LT	
146+65.0	30.5' LT	
TOTAL:	2	

627(7) FIRE HYDRANT REMOVAL - EACH

STATION	OFFSET	REMARKS
121+86.8	40.7' LT	
146+95.8	35.5' LT	
TOTAL:	2	

627(8) WATER SERVICE CONNECTION - EACH

STATION	OFFSET	REMARKS
118+00.9	25.0' RT	1-1/2"
121+70.2	51.4' LT	2"
122+85.5	40.2' LT	1"
123+18.8	65.8' LT	2"
143+32.3	39.2' LT	1"
144+72.9	39.2' LT	~~1"~~ 2"
145+71.4	~~41.4' RT~~ 38.4' RT	1-1/2"
~~146+00.5~~	~~38.6' LT~~	~~MATCH EXISTING SIZE~~
TOTAL:	8	
143+34.3	39.2' LT	1"

627(10) ADJUSTMENT OF VALVE BOX - EACH

STATION	OFFSET	REMARKS
151+30.8	45.0' LT	
151+36.3	34.2' LT	
151+72.4	28.3' LT	
TOTAL	3	

627(11) _ INCH HDPE WATER CONDUIT - LINEAR FOOT

FROM		TO		LENGTH AND SIZE		REMARKS
STATION	OFFSET	STATION	OFFSET	627(11-6) 6"	627(11-16) 16"	
117+88.2	16.2' LT	124+17.6	14.3' LT		584	GLACIER HIGHWAY
121+78.3	19.4' LT	146+97.1	24.1' LT		579	BACK LOOP ROAD
144+16.6	27.7' LT	144+21.8	65.4' RT	94		CAROLINE STREET
			TOTAL:	94	1163	

635(1) INSULATION BOARD - MBM

BEGIN		END		QUANTITY	REMARKS
STATION	OFFSET	STATION	OFFSET		
144+15.8	12.5' RT	144+17.5	38.4' RT	0.21	
118+45.0	36' LT	N/A	N/A	0.29	CULVERT CROSSING PER CBJ DETAIL 412
144+10.0	27' LT	N/A	N/A	0.29	CULVERT CROSSING PER CBJ DETAIL ~~413~~ 412
148+75.0	21.5' LT	N/A	N/A	0.29	CULVERT CROSSING PER CBJ DETAIL ~~414~~ 412
144+15.0	33' RT	N/A	N/A	0.29	CULVERT CROSSING PER CBJ DETAIL ~~415~~ 412
			TOTAL	1.36	

639(3) APPROACH - EACH

STATION	OFFSET		WIDTH (FT)	REMARKS
	LEFT	RIGHT		
117+79.7	X		35	HARBOR DRIVE
117+93.4	X		26	DEHART'S ACCESS
118+15.0		X	20	MATCH GRADE @ ROW
123+63.0	X		14	DEEM'S DRIVEWAY
124+33.8		X	24	UAS BOOKSTORE
144+22.0		X	24	CAROLINE ST.
144+75.5	X		24	AEL&P
145+94.7	X		26	MATCH GRADE @ ROW
~~147+49.4~~ 147+88.0	X		34	MATCH GRADE @ ROW
150+32.0	X		34	BUS YARD
152+30.7	X		36	UAS_N TO NAT'L GUARD ARMORY
152+30.7		X	36	UAS_N TO UAS CAMPUS
TOTAL	12			

642(4) SET PRIMARY MONUMENT - EACH

STATION	OFFSET	REMARKS
~~117+10~~	~~15' LT~~	117+55, RT
~~119+90~~	~~0~~	118+17, RT
~~124+00~~	~~15' LT~~	121+70, RT
~~142+15~~	~~6' LT~~	124+01, RT
~~144+27~~	~~15' LT~~	147+10, RT
~~150+00~~	~~15' RT~~	
~~152+77~~	~~15' LT~~	
~~7~~		5 TOTAL

SEE NOTES 1 & 2

NOTES:
1. NSTALL MONUMENT CASE PER DETAIL ON SHEET E6 FOR ALL MONUMENTS IN AC SURFACE.
2. THE LOCATION OF THE PROPOSED CONTROL MONUMENT IS APPROXIMATE. SET PRIMARY MONUMENTS AND CASES IN THE PAVED SHOULDER OR ROUNDABOUT TRUCK APRON IN LINE-OF-SIGHT WITH EACH OTHER AND APPROXIMATELY THREE FEET FROM THE EDGE OF PAVEMENT. THE INTENT IS TO PROVIDE A MONUMENTED TRAVERSE LINE FOR THE PROJECT CORRIDOR.

642(5) SET SECONDARY MONUMENT - EACH

QUANTITY	REMARKS
~~10~~ 3	MONUMENTS TO BE DETERMINED DURRING CONSTRUCTION, SEE SHEET A2 FOR LOCATIONS

642(9) REFERENCE EXISTING MONUMENT - EACH

QUANTITY	REMARKS
~~10~~ 7	MONUMENTS TO BE DETERMINED DURRING CONSTRUCTION, SEE SHEET A2 FOR LOCATIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE ____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK
TAB: D5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE-9388 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, B. PADDOCK, W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
D5	82

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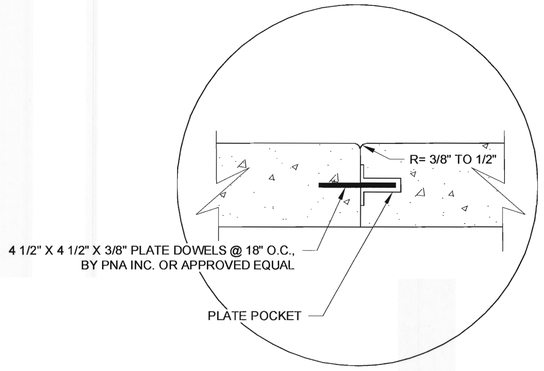
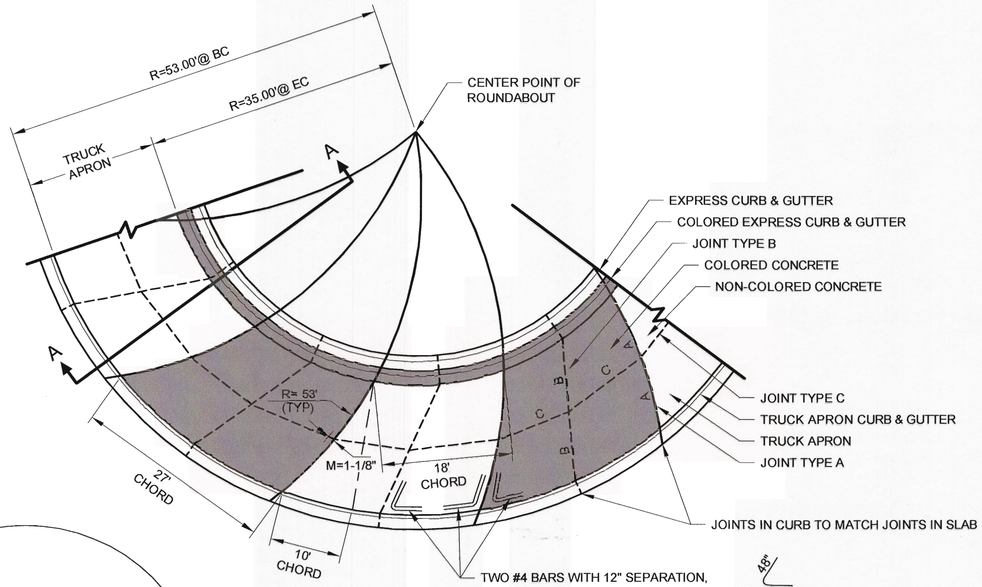
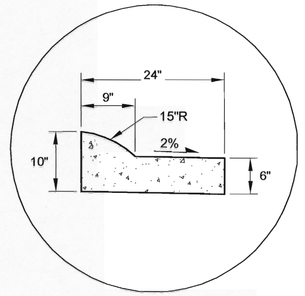


JOINT TYPE A DETAIL



TRUCK APRON DETAIL

NTS

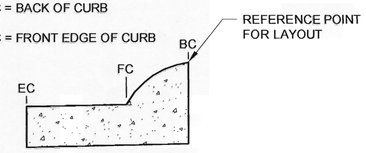


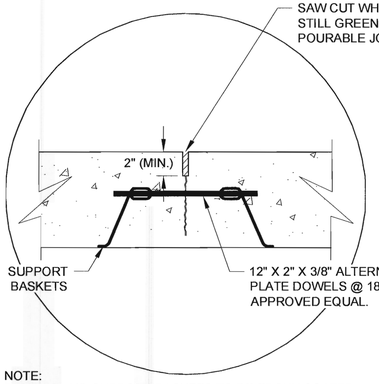
TRUCK APRON CURB & GUTTER

FC = FACE OF CURB

BC = BACK OF CURB

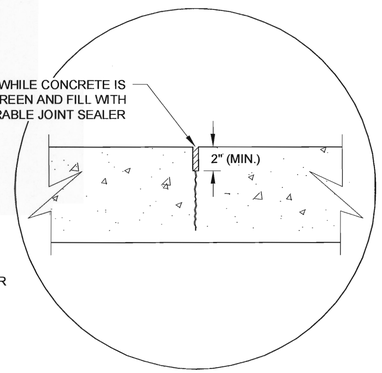
EC = FRONT EDGE OF CURB



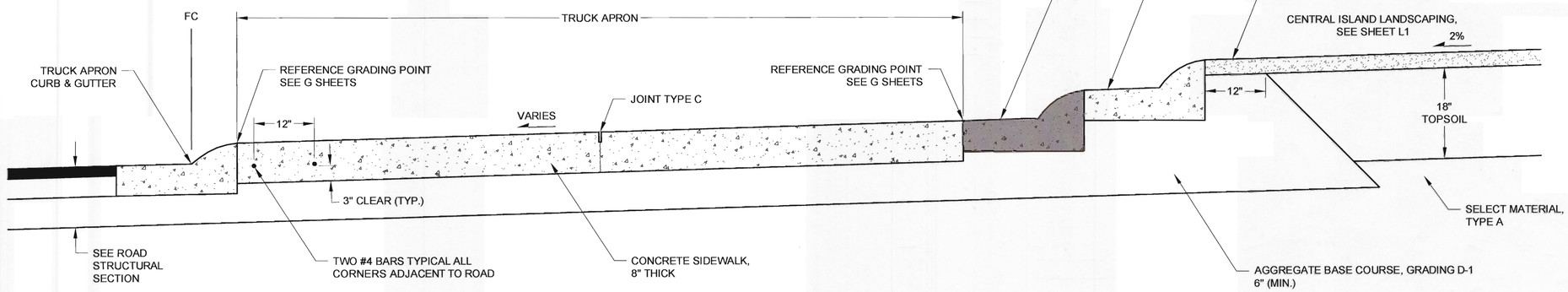


NOTE:
DOWELS AND SUPPORT BASKETS TO BE EPOXY COATED.

JOINT TYPE B DETAIL



JOINT TYPE C DETAIL



A-A - TRUCK APRON CROSS SECTION

NTS

NOTE:
REBAR AND SUPPORT BASKETS TO BE EPOXY COATED.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE NLH Date 9/15/15

PREPARED BY: USKH
BILL PADDOCK

TAB: **DETAILS**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan Leigh Nathan C. Leigh CE-8388 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, S. KARI

DRAWN BY: B. PADDOCK, C. PANNONE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DETAILS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
E1	82

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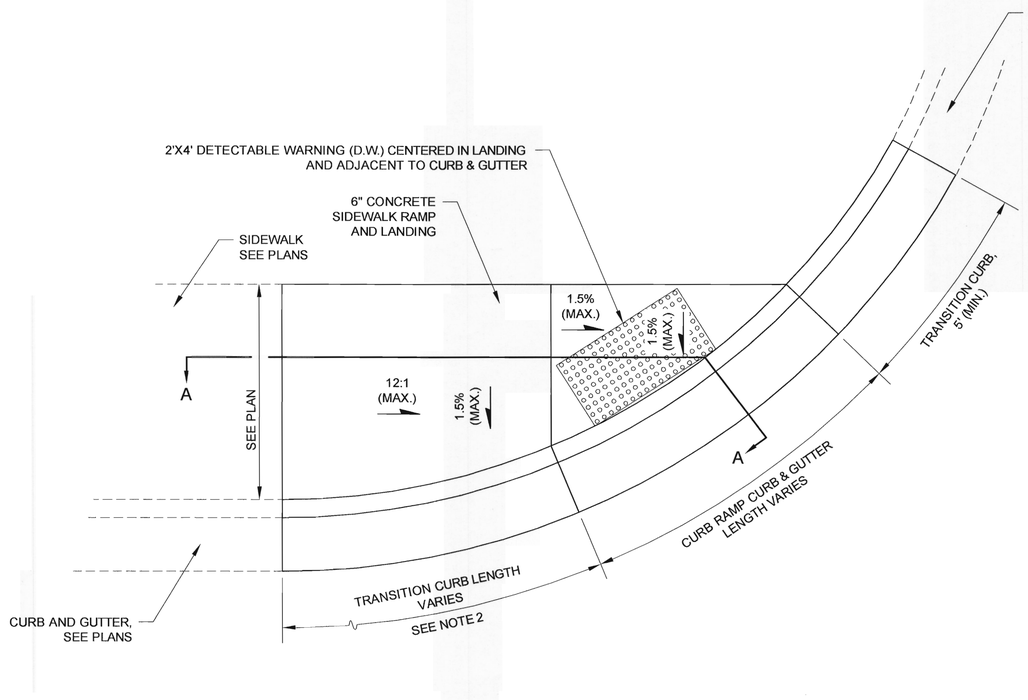
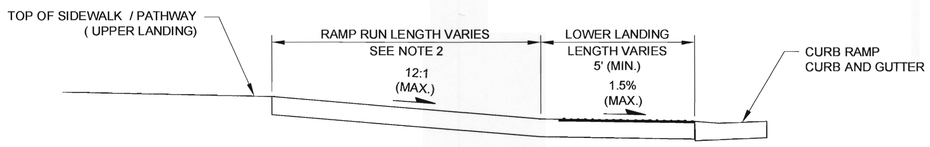


PLAN



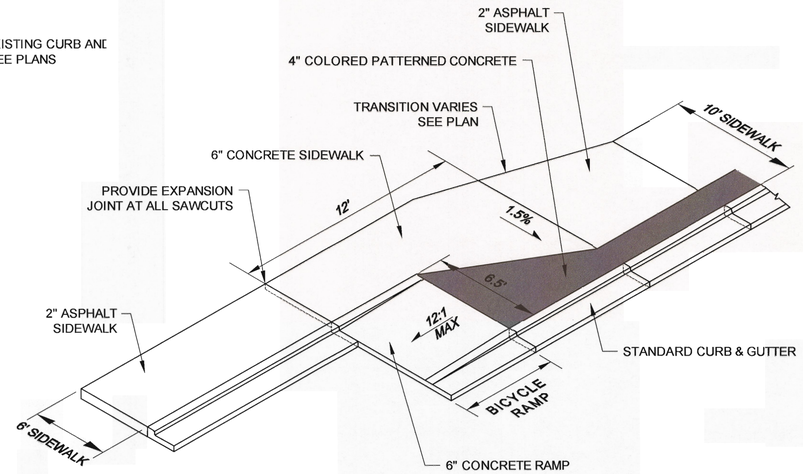
SECTION A-A

UNIDIRECTIONAL CURB RAMP

NTS

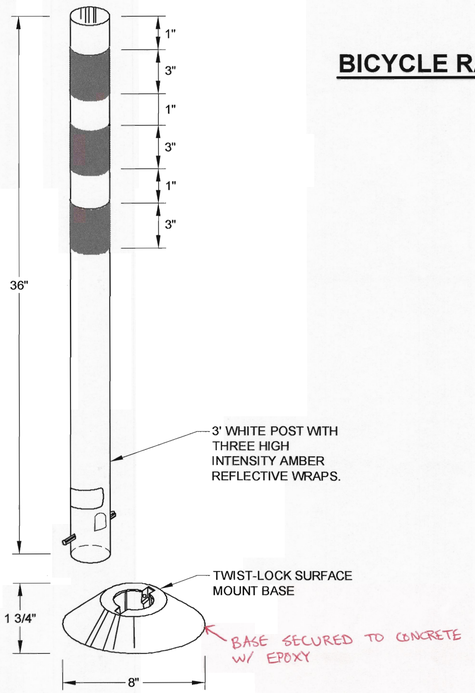
NOTES:

1. CONCRETE SHALL RECEIVE A COARSE BROOMED FINISH RUNNING PERPENDICULAR TO THE CURB ON RAMP RUNS AND UPPER LANDINGS AND PARALLEL TO THE DIRECTION OF TRAVEL ON LOWER LANDINGS.
2. WHERE SIDEWALK SLOPE MAKES IT NECESSARY TO LENGTHEN A RAMP RUN TO AVOID EXCEEDING THE ALLOWABLE SLOPE, IT SHOULD NOT BE MADE LONGER THAN 15 FEET FOR A 6" CURB HEIGHT OR, IN GENERAL, 30 TIMES THE CURB HEIGHT. SIMILARLY A FLARE SHOULD NOT BE MADE LONGER THAN 6 FEET FOR A 6" CURB HEIGHT OR, IN GENERAL, 12 TIMES THE CURB HEIGHT. THE SLOPES RESULTING FROM THOSE RUN OR FLARE LENGTHS ARE ACCEPTABLE, EVEN IF THEY EXCEED THE MAXIMUM SLOPES SHOWN.



BICYCLE RAMP DETAIL

NTS



FLEXIBLE DELINEATOR DETAIL

NTS

NOTE:

DELINEATORS SHALL BE WHITE IN COLOR, AND SHALL HAVE YELLOW REFLECTIVE SHEETING.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **DETAILS**

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan C. Leigh CE-8386 4/18/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DETAILS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
E2	82

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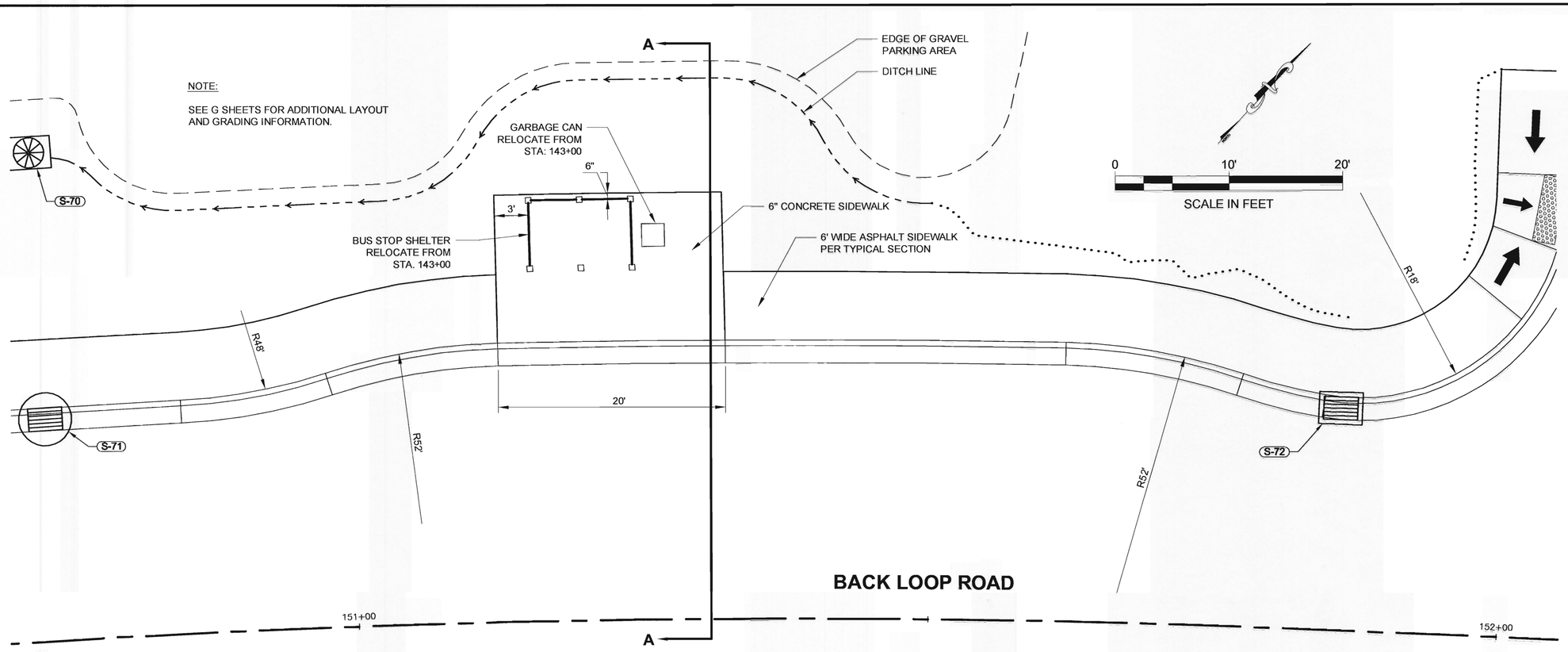
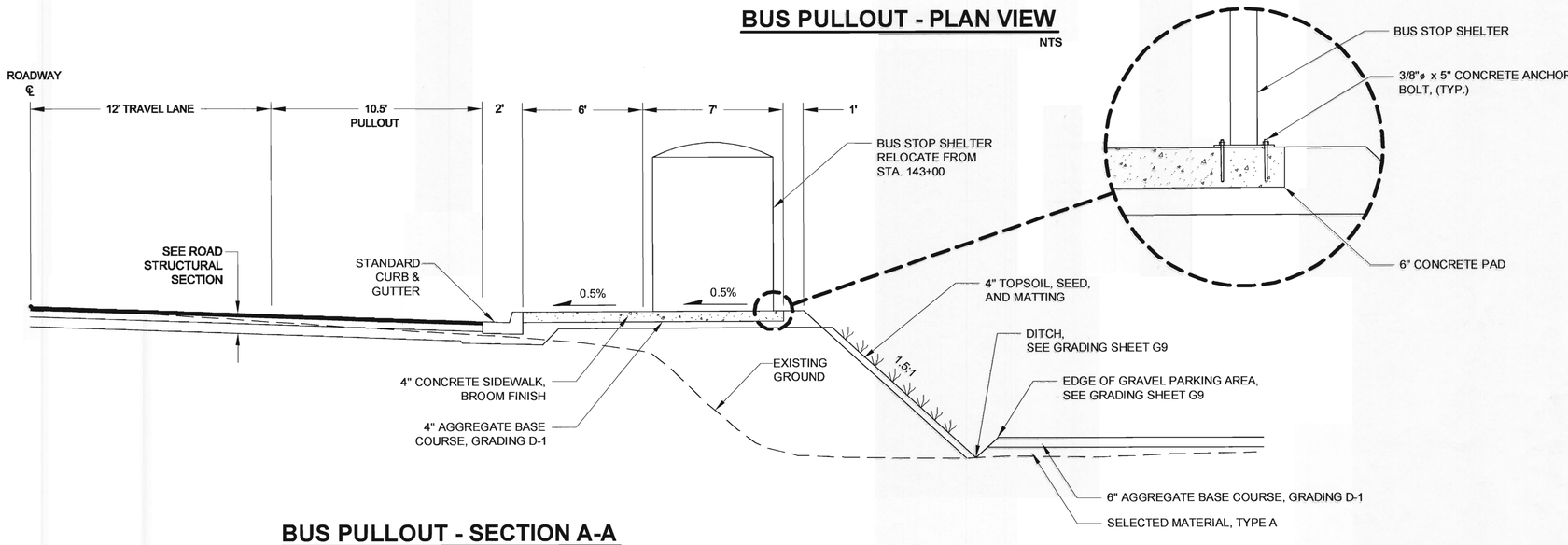


BUS PULLOUT - PLAN VIEW

NTS



BUS PULLOUT - SECTION A-A

NTS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\CSHEETS\1289500 E03.DWG

PREPARED BY: USKH

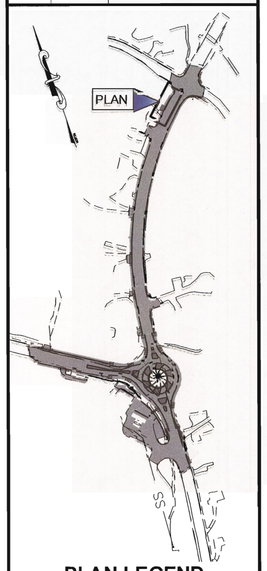
BILL PADDOCK

TAB: **DETAILS**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan C. Leigh CE-8386 4/18/15 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB

DRAWN BY: B. PADDOCK

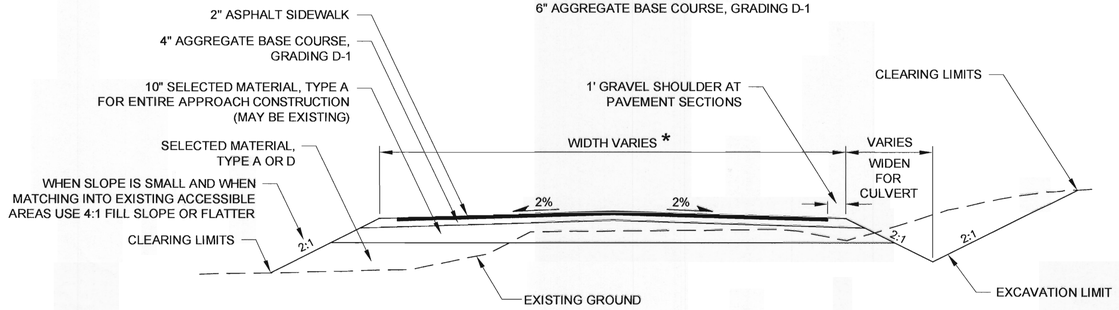
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DETAILS

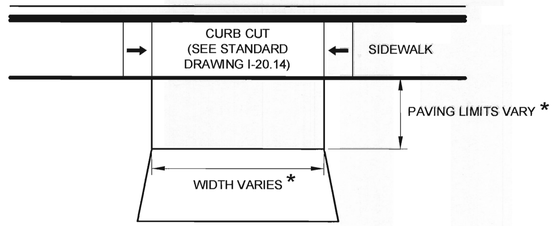
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
E3	82

NOTE:
FOR UNPAVED DRIVEWAYS, OMIT TOP TWO LAYERS IN THIS DETAIL AND PLACE 6" AGGREGATE BASE COURSE, GRADING D-1



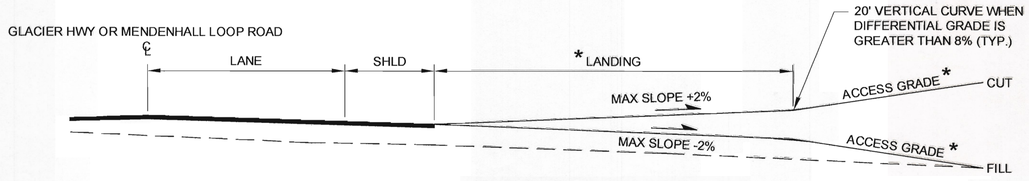
TYPICAL DRIVEWAY SECTION

SEE NOTE 1



TYPICAL CURB CUT DRIVEWAY PLAN

* SEE APPROACH SUMMARY TABLE ON SHEET D5.
SEE PROFILES ON F SHEETS.



TYPICAL DRIVEWAY PROFILE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE NLL Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: H:\1289500\DWGS\CSHEETS\1289500 E04.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **DETAILS**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

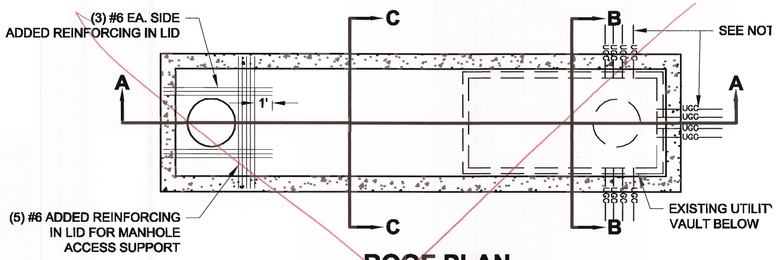
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

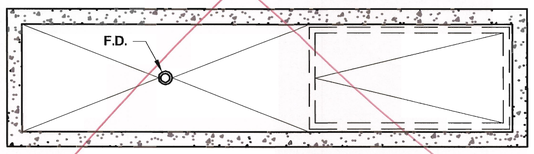
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DETAILS

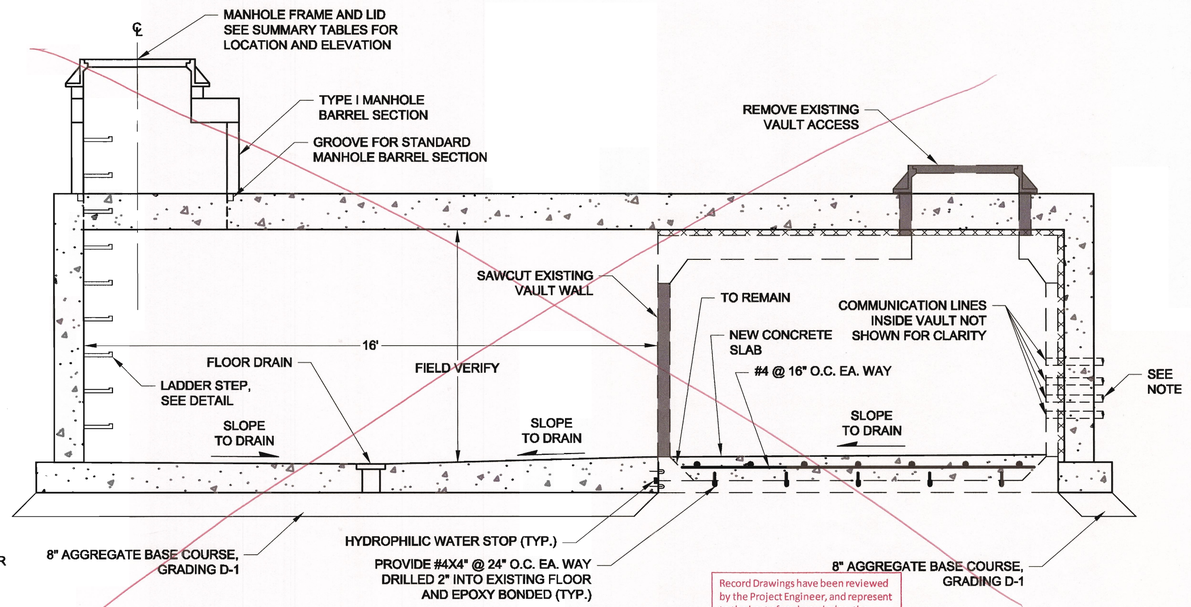
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
E4	82



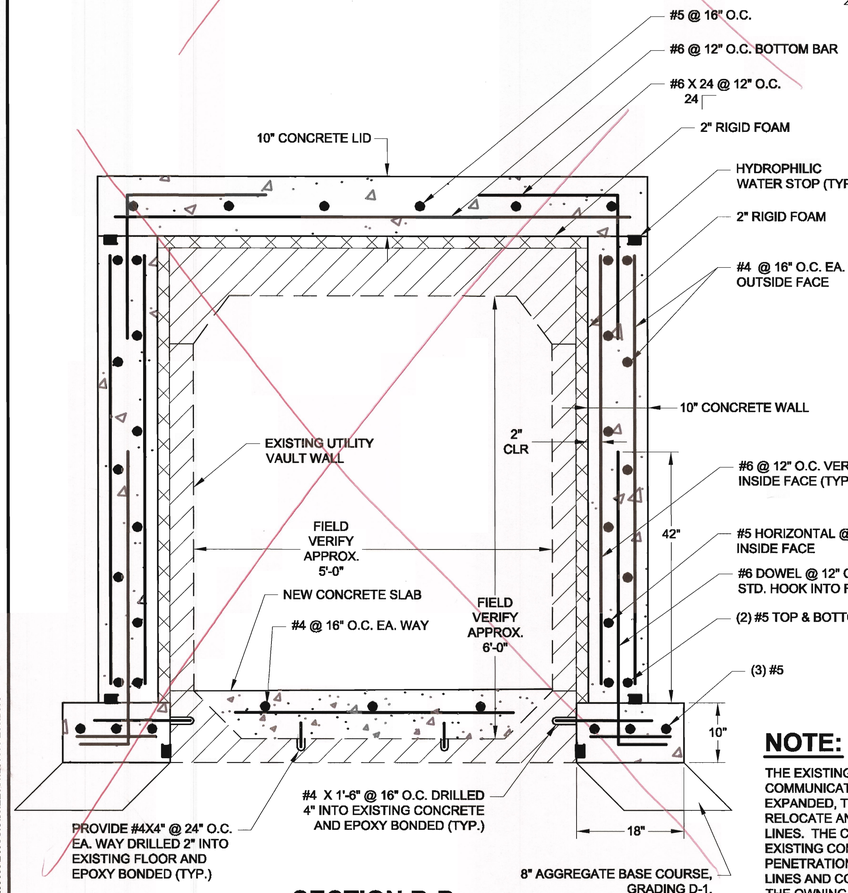
ROOF PLAN



FLOOR PLAN



SECTION A-A



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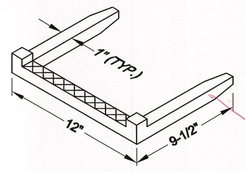


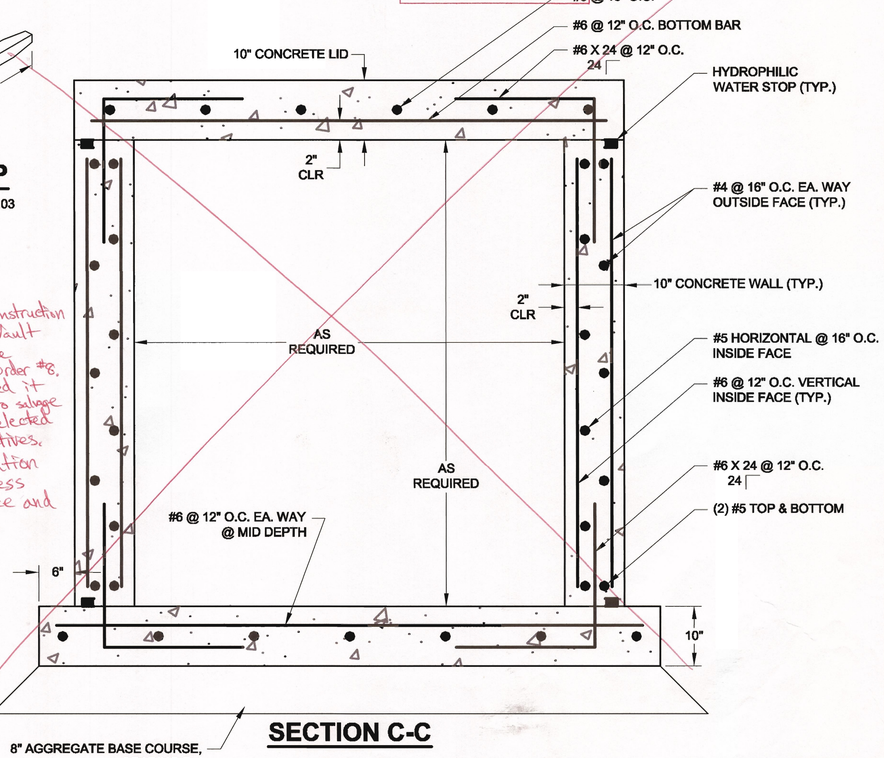
LADDER STEP

SEE STANDARD DETAIL D-20.03 FOR ADDITIONAL DETAILS.

Note:
Work associated w/ construction of new communication Vault was deleted from the contract via change Order #8. The Department determined it would not be possible to salvage the existing vault and elected to pursue other alternatives. The existing communication vault and manhole access were abandoned in-place and below finished grade.

NOTE:

THE EXISTING VAULT IS FILLED WITH OPERATING COMMUNICATION LINES. AFTER THE VAULT IS EXPANDED, THE OWNING UTILITY WILL, REPLACE, RELOCATE AND ADD ADDITIONAL COMMUNICATION LINES. THE CONTRACTOR SHALL PROTECT THE EXISTING COMMUNICATION LINES, PROVIDE VAULT PENETRATIONS FOR PROPOSED COMMUNICATION LINES AND COORDINATE WORK SCHEDULES WITH THE OWNING UTILITY.



SECTION C-C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

PREPARED BY: USKH
BILL PADDOCK

TAB: E5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
FRANKLIN S. THOMPSON
No. CE 12863
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: F. THOMPSON

DRAWN BY: B. PACCOCK, C. HAKARI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

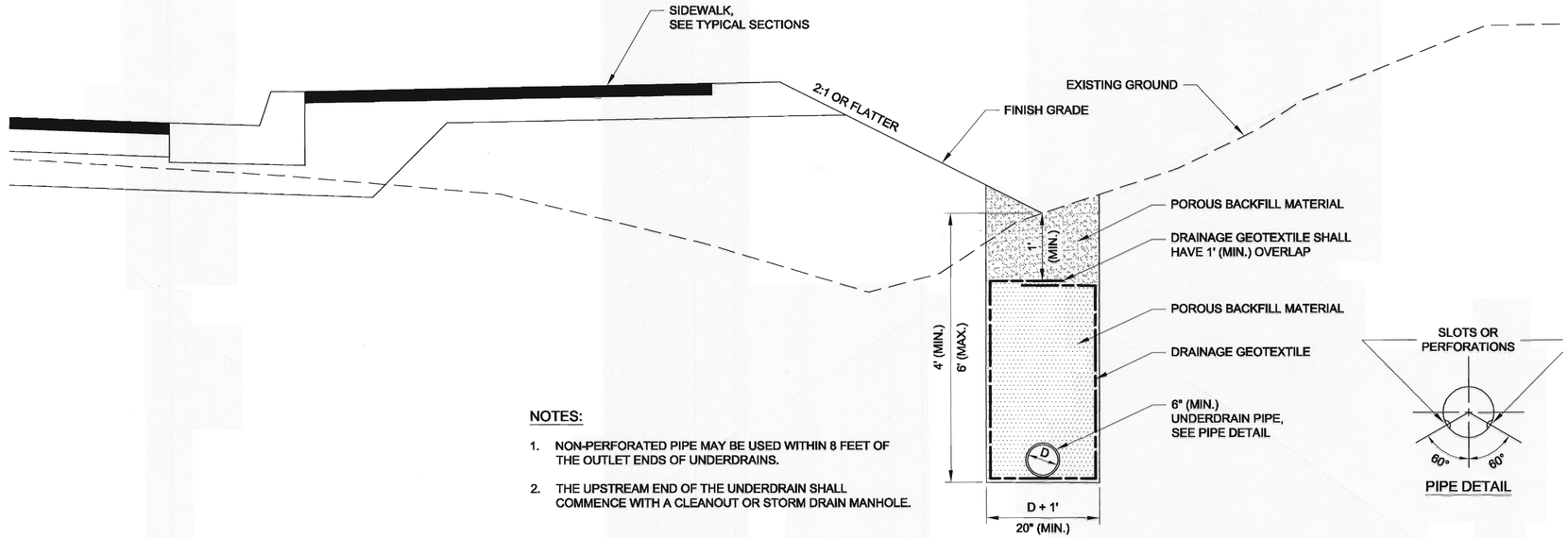
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DELETED

COMMUNICATION VAULT DETAILS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
E5	82

PATH: H:\1289500\DWGS\CSHEETS\1289500 E05.DWG

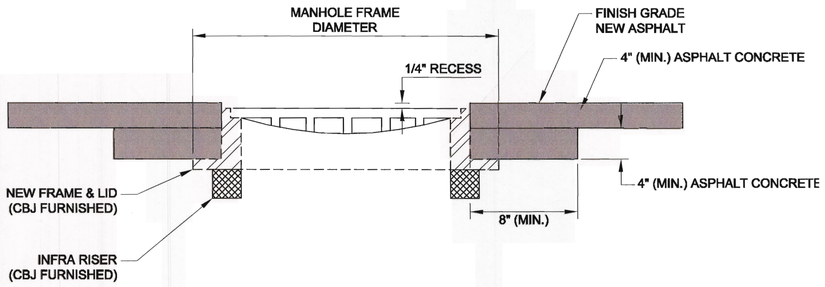


NOTES:

1. NON-PERFORATED PIPE MAY BE USED WITHIN 8 FEET OF THE OUTLET ENDS OF UNDERDRAINS.
2. THE UPSTREAM END OF THE UNDERDRAIN SHALL COMMENCE WITH A CLEANOUT OR STORM DRAIN MANHOLE.

PIPE DETAIL

UNDERDRAIN



ADJUSTMENT NOTES:

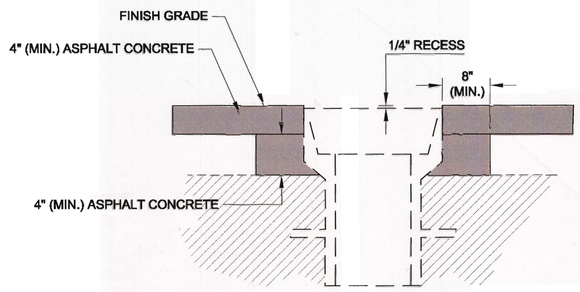
1. MANHOLE CASTING SHALL BE ADJUSTED TO CONFORM WITH SLOPE AND GRADE OF PROPOSED PAVEMENT.
2. ADJUSTING RINGS SHALL BE PROPERLY SIZED FOR THE EXISTING CONE OR FLAT TOP OPENING, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION OF FRAME, COVER, AND ADJUSTMENT RINGS, ONTO THE EXISTING STRUCTURE SHALL BE WATER-TIGHT.

CONSTRUCTION SEQUENCING NOTES:

1. REMOVE EXISTING MANHOLE FRAMES AND LIDS. COORDINATE SALVAGE AND DELIVERY WITH CBJ SEWER DEPARTMENT.
2. RAISE, LOWER OR RECONSTRUCT MANHOLES AS REQUIRED. INSTALL STEEL PLATE OVER MANHOLE OPENING AS A TEMPORARY MEASURE.
3. PRIOR TO FINAL PAVING, REMOVE STEEL PLATE AND INSTALL NEW RISERS, FRAME AND LID. ADJUST FRAMES TO FINISHED GRADE.
4. CONSTRUCT 4" OF ASPHALT CONCRETE PAVEMENT IN PAVEMENT REMOVAL AREA AROUND FRAME.
5. CONSTRUCT FINAL ASPHALT CONCRETE PAVEMENT.

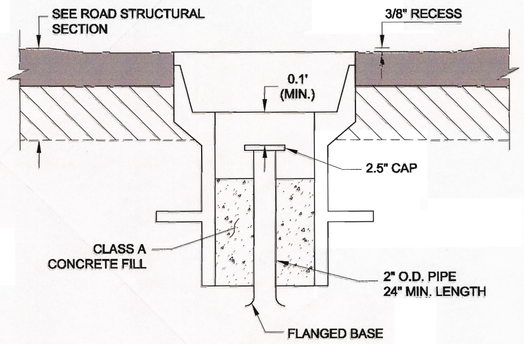
MANHOLE DETAIL

NTS



VALVE BOX ADJUSTMENT DETAIL

NTS



MONUMENT DETAIL

NTS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\12899500\DWGS\CS\SHEETS\12899500 E06.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: E6

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. LEIGH

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DETAILS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
E6	82

0 40' 80'

SCALE IN FEET

STATTER HARBOR PARKING LOT

HARBOR DRIVE

GLACIER HIGHWAY

STA. 11+04
SAWCUT AND MATCH EXISTING PAVEMENT

11+90

11+00

SEE HARBOR DRIVE PROFILE, SHEET F5

PROTECT EXISTING LANDSCAPE TREES, (TYP.)

DIESEL TANK
DIESEL PUMP

DECK

TCP-2

DEHART'S

GUARDRAIL TERMINATION POINTS

~~CONSTRUCT 80" WIDE CONCRETE STAIR CASE, SEE STANDARD DRAWING M.01.00 FOR DETAILS.~~

60" Wide Wooden Stair Case w/ Metal Treads

115+00 116+00 117+00 118+00 119+00

BEGIN PROJECT
STA. 116+96.00
SAWCUT AND MATCH EXISTING PAVEMENT CURB & GUTTER, AND SIDEWALK

STA. 117+79.73 (GLACIER HIGHWAY)
= STA. 10+00.00 (HARBOR DRIVE)

E-12A

E-12

TCE-1

SEE GLACIER HIGHWAY PROFILE, SHEET F5

POWER POLE TO BE RELOCATED BY OWNING UTILITY, CONTRACTOR TO COORDINATE

#1570 2-STORY WOOD HOUSE

#1600 3-STORY WOOD

#1640 2-STORY DUPLEX

#1644 2-STORY DUPLEX

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/15/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289600\CWGS\COSHEETS\1289600 F01-F04.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **F1**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY PLAN VIEW

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F1	82

0 40' 80'
SCALE IN FEET

SEE RETAINING WALL PLAN & PROFILE, SHEET M1

CONSTRUCT NEW WOOD FENCE USING SAME CONSTRUCTION AS EXISTING FENCE

STA. 2+33.59 MATCH EXISTING PAVEMENT

SEE DEEMS DRIVEWAY PROFILE, SHEET F7

STA. 123+63.00 (GLACIER HIGHWAY) = STA. 1+00.00 (DEEMS DRIVEWAY)

ADJUST SIDEWALK LIMITS AS DIRECTED TO KEEP FILL SLOPE INSIDE ROW

END SIDEWALK

REMOVE EXISTING COTTONWOOD TREES. PROTECT EXISTING EVERGREEN TREES.

STA. 120+33.77 (GLACIER HIGHWAY) = STA. 141+70.11 (BACK LOOP ROAD)

GLACIER HIGHWAY

NEW ACS COMMUNICATIONS UTILITY VAULT

PROPOSED COMMUNICATION VAULT DELETED BY C.O. #8. EXISTING VAULT AND FIBER OPTIC DUCT BANK ABANDONED IN-PLACE. SEE ACS PLAN SHEETS IN H SERIES FOR DETAILS ON RELOCATED FIBER OPTICS.

SEE GLACIER HIGHWAY PROFILE, SHEET F5

END PROJECT
STA. 124+92.00
SAWCUT AND MATCH EXISTING PAVEMENT CURB & GUTTER, AND SIDEWALK

RELOCATE EXISTING BUS SHELTER TO STA. 151+20, SEE SHEET E3.

POWER POLE TO BE RELOCATED BY OWNING UTILITY, CONTRACTOR TO COORDINATE

PROTECT EXISTING BUFFER TREES

SEE BACK LOOP RD PROFILE, SHEET F6

BACK LOOP ROAD

CAROLINE STREET

SEE AEL&P PROFILE, SHEET F7

DEEMS

AEL & P

#3860 1-STORY WOOD HOUSE

#1745 3-STORY WOOD HOUSE

DEHART'S FOUNDATION

THREA BLDG

THREA GARAGE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: H:\1289500\DWGS\CSHEETS\1289500 F01-F04.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: F2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
Nathan C. Leigh
CE-8386
4/9/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY & BACK LOOP ROAD PLAN VIEW

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F2	82

0 40' 80'

SCALE IN FEET

PROVIDE EMERGENCY ACCESS TO AEL&P POWER HOUSE B SUBSTATION AT ALL TIMES

STA. 144+75.49 (BACK LOOP ROAD) = STA. 1+00.00 (AEL&P DRIVEWAY)

PROTECT EXISTING LARGE TREES

TCP–6A

TCE–6

INACTIVE

PLUG

SEE SHEET UH FOR SHIFTED DRIVEWAY AND CULVERT LOCATION

DRIVEWAY TO BE ABANDONED

AEL&P

T.H.R.E.A. GARAGE

BACK LOOP ROAD

CAROLINE STREET

STA. 144+20.42 (BACK LOOP ROAD) = STA. 60+00.00 (CAROLINE STREET)

STA. 60+63.94 SAWCUT AND MATCH EXISTING PAVEMENT

#3861 1-STORY WOOD HOUSE

DEPRESSED CURB

EXISTING FIBER OPTIC DUCT BANK ABANDONED IN-PLACE SEE ACS PLAN SHEETS IN H SERIES.

SEE BACK LOOP ROAD PROFILE, SHEET F6

SEE CAROLINE STREET PROFILE, SHEET F7

144+00 145+00 146+00 147+00 148+00 149+00 1+00 60+50 61+00 62+00

ROW

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\CS\SHEETS\1289500 F01-F04.DWG

PREPARED BY: USKH

BILL PADDOCK

TAB: **F3**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE–8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

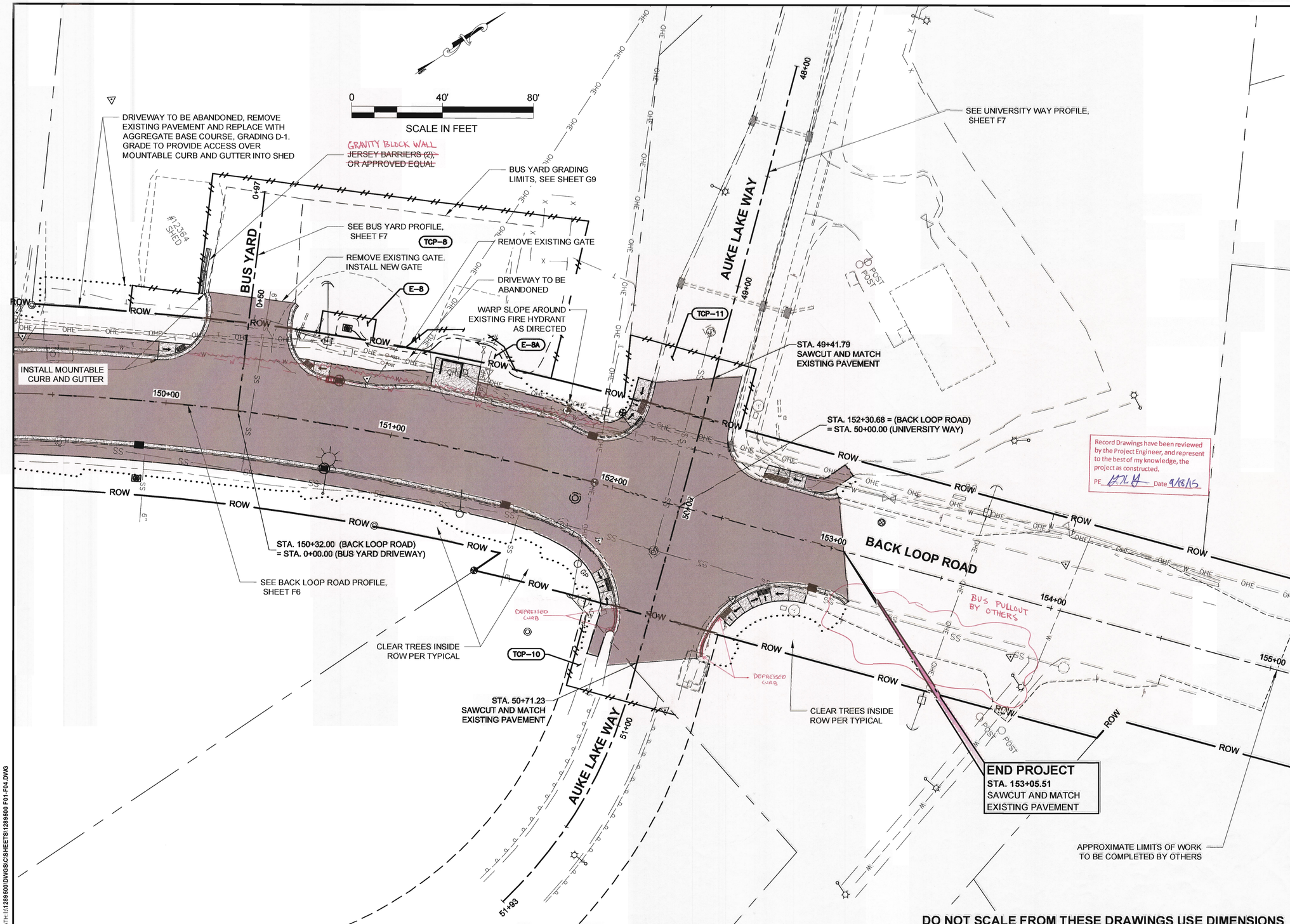
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY & BACK LOOP ROAD PLAN VIEW

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F3	82



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK

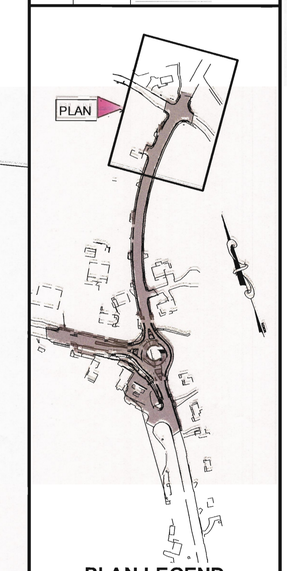
TAB: F4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

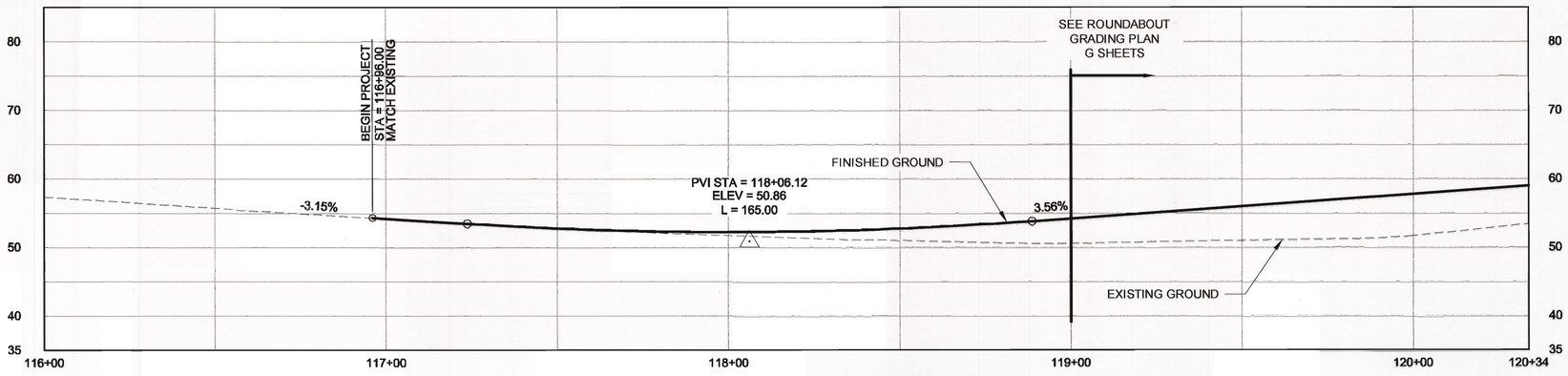
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

BACK LOOP ROAD PLAN VIEW

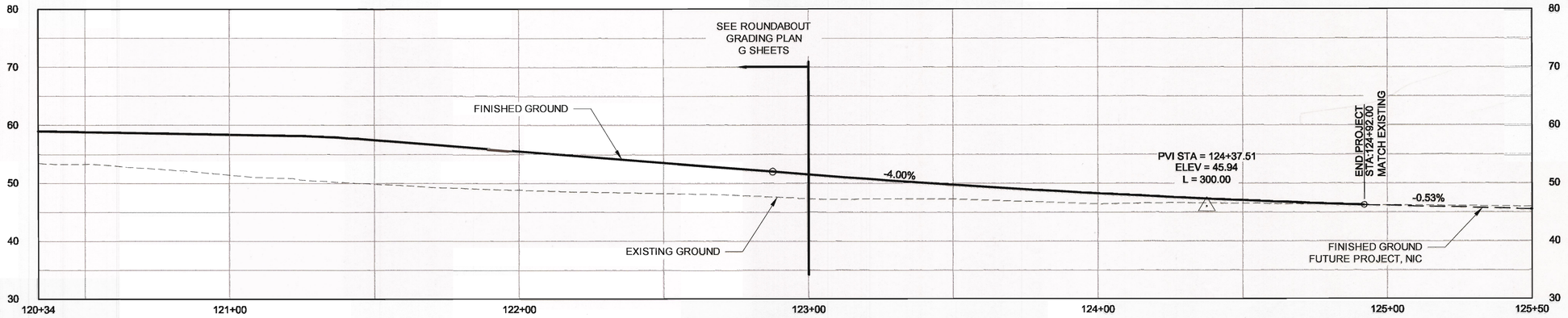
PROJECT DESIGNATION

69003

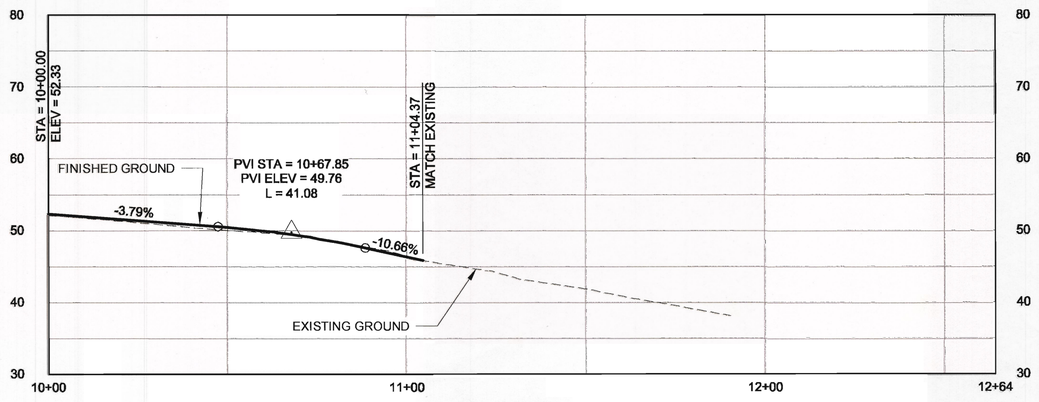
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F4	82



GLACIER HIGHWAY



GLACIER HIGHWAY



HARBOR DRIVE

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

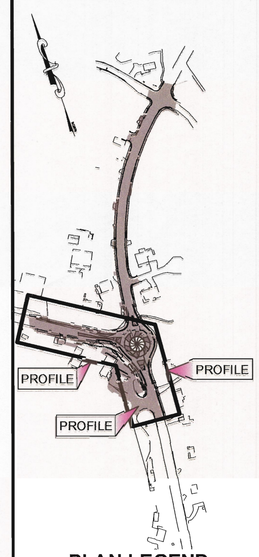
PREPARED BY: USKH
BILL PADDOCK

TAB: **F5**

ADDENDUM NUMBER
ATTACHMENT NUMBER

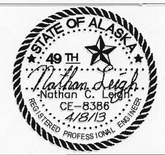
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH



DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO

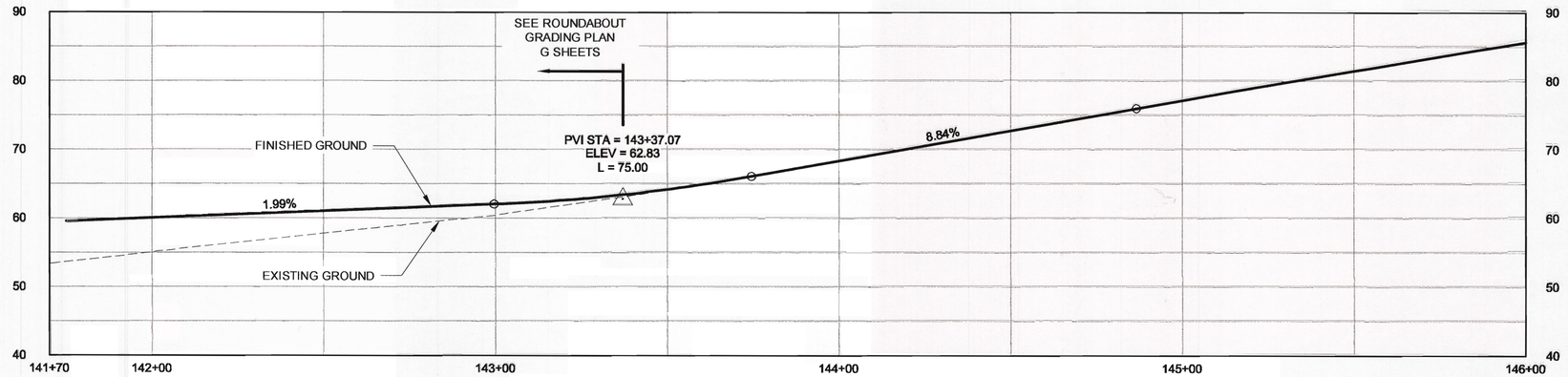
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

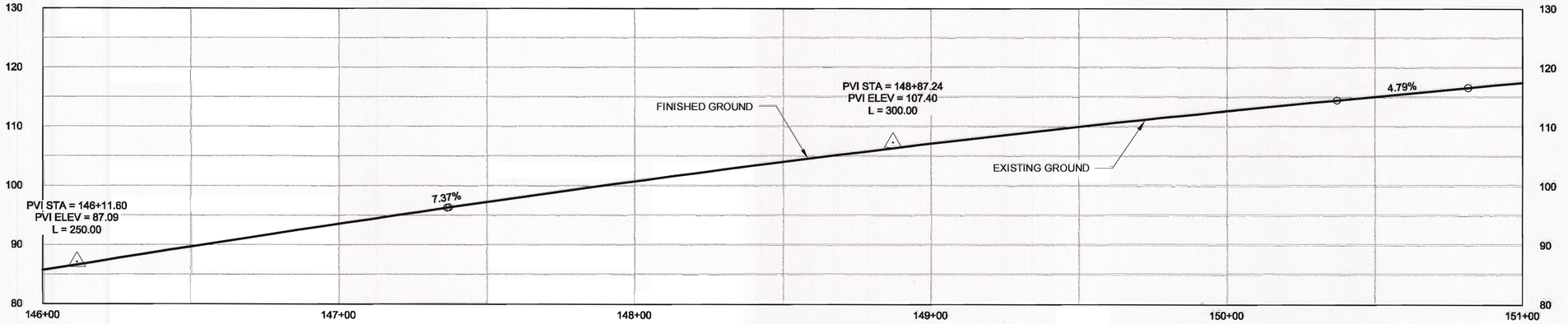
GLACIER HIGHWAY AND HARBOR DR PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F5	82

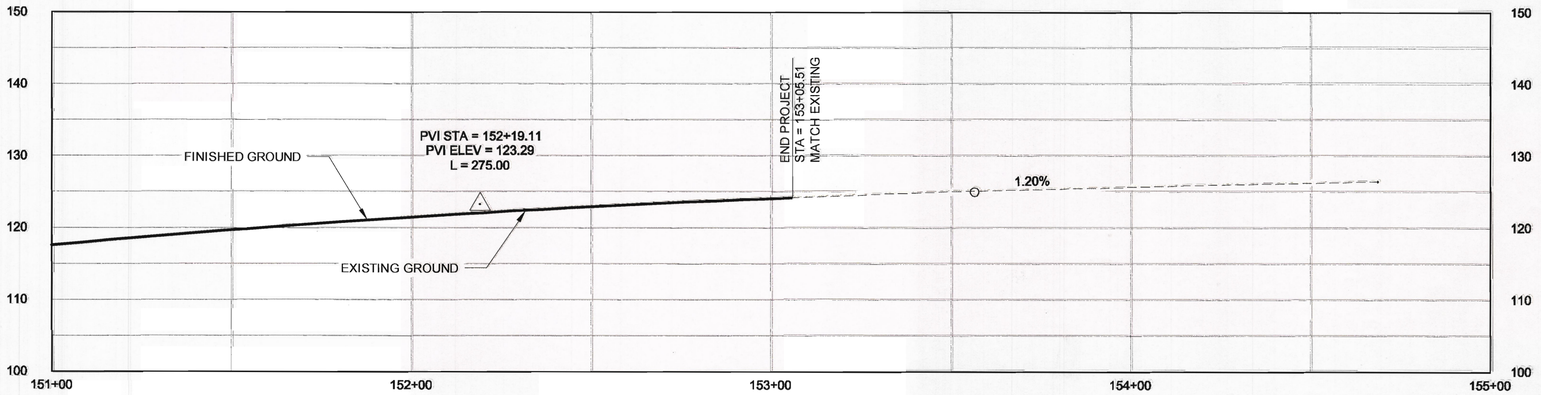
PATH:\51289500\DWGS\CSHEETS\1289500 F05-F07.DWG



BACK LOOP ROAD



BACK LOOP ROAD



BACK LOOP ROAD

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
P.E. _____ Date 9/18/15

PREPARED BY: USKH
BILL PADDOCK

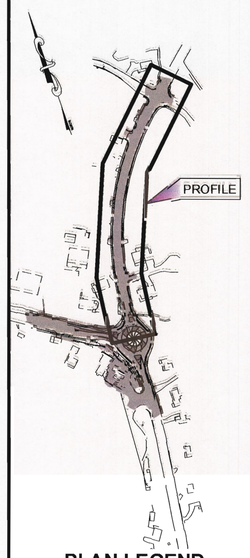
TAB: **F6**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

BACK LOOP ROAD PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F6	82

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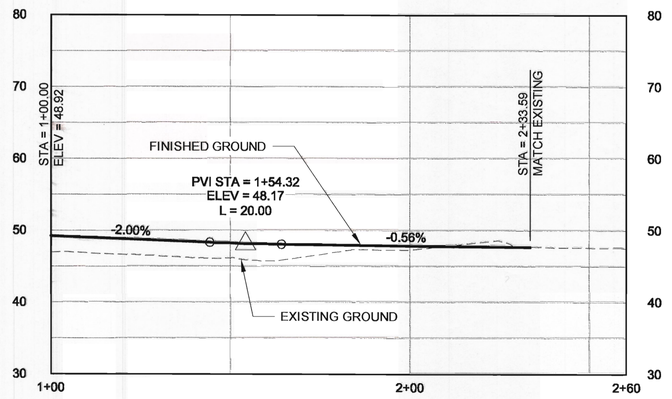
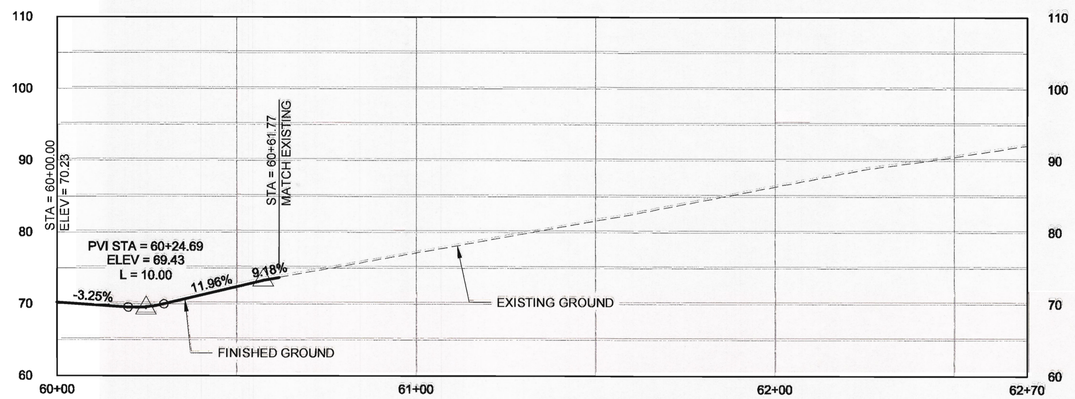
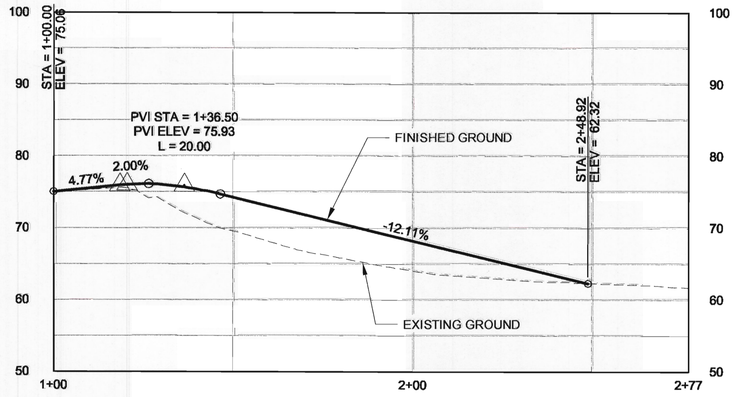


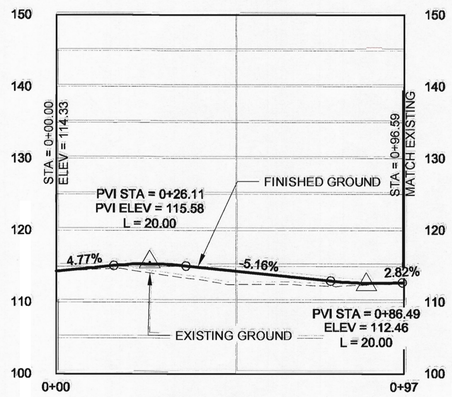
DEEMS DRIVEWAY



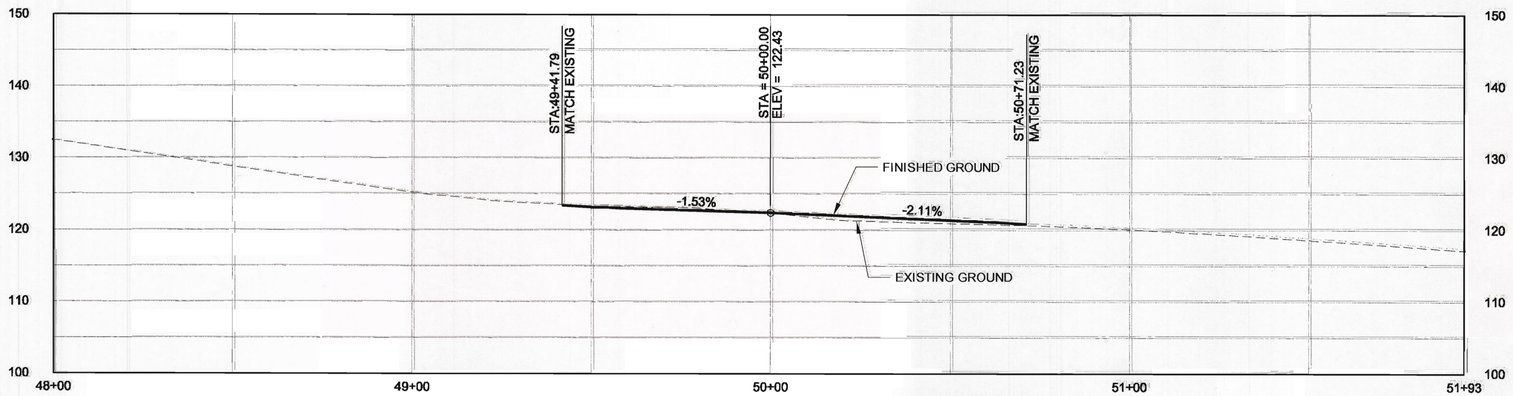
CAROLINE STREET



AEL & P



BUS YARD



AUKE LAKE WAY

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE ____ Date 9/16/15

PREPARED BY: USKH
BILL PADDOCK

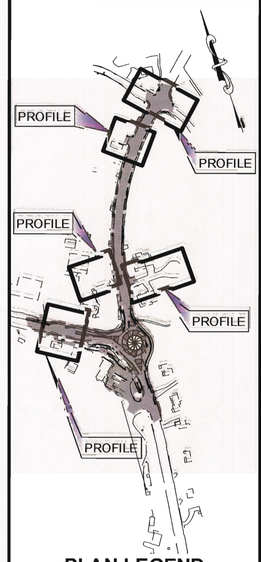
TAB: **F7**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO,

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

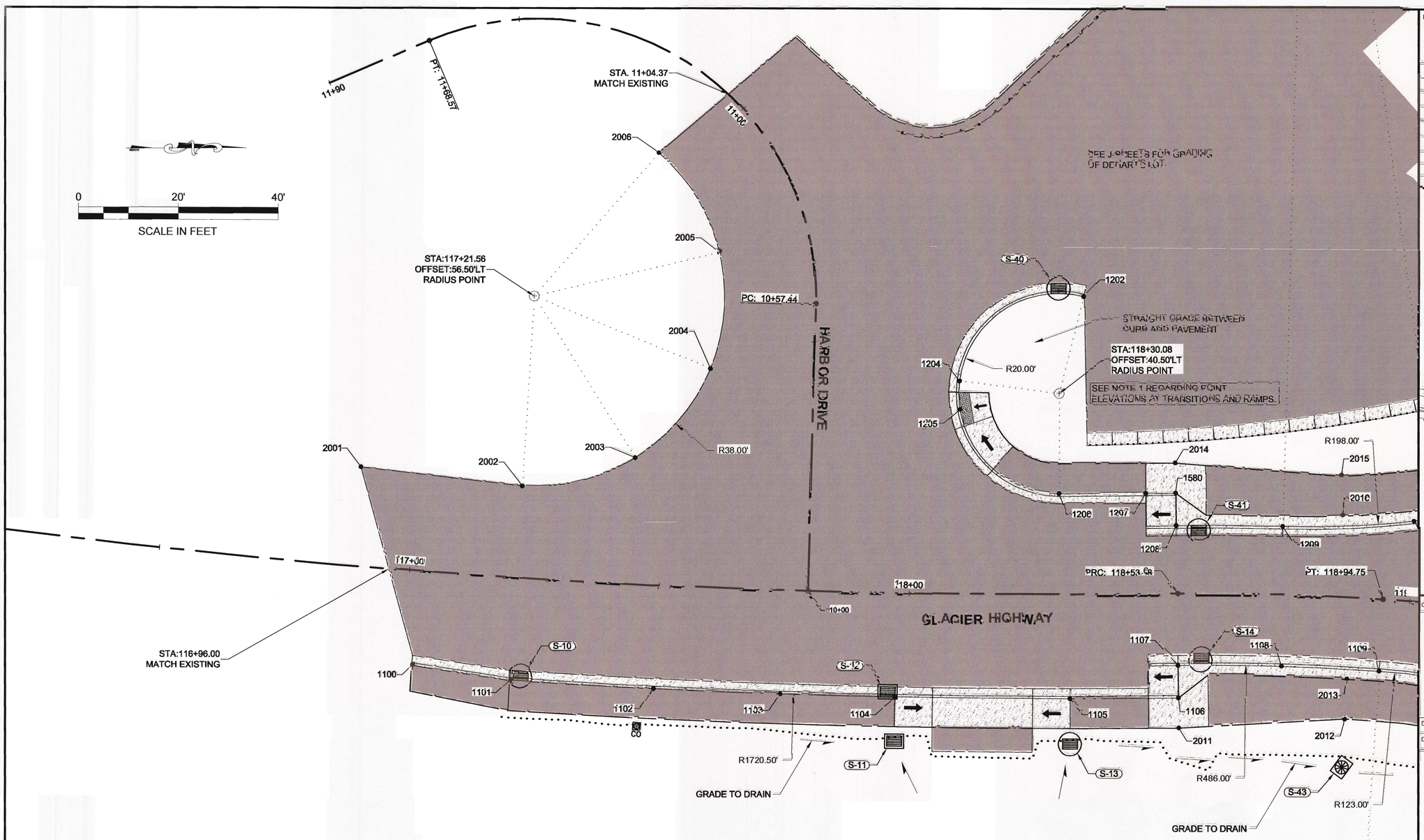
DEEMS DRIVEWAY, CAROLINE ST, AEL & P, BUS YARD, AUKE LAKE WAY PROFILE

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
F7	82

PATH:\51289500\DWGS\CIS\HEETS\1289500 F05-F07.DWG



PLAN

PLAN LEGEND

PREPARED BY: USKH
BILL PADDOCK

TAB: G1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G1	82

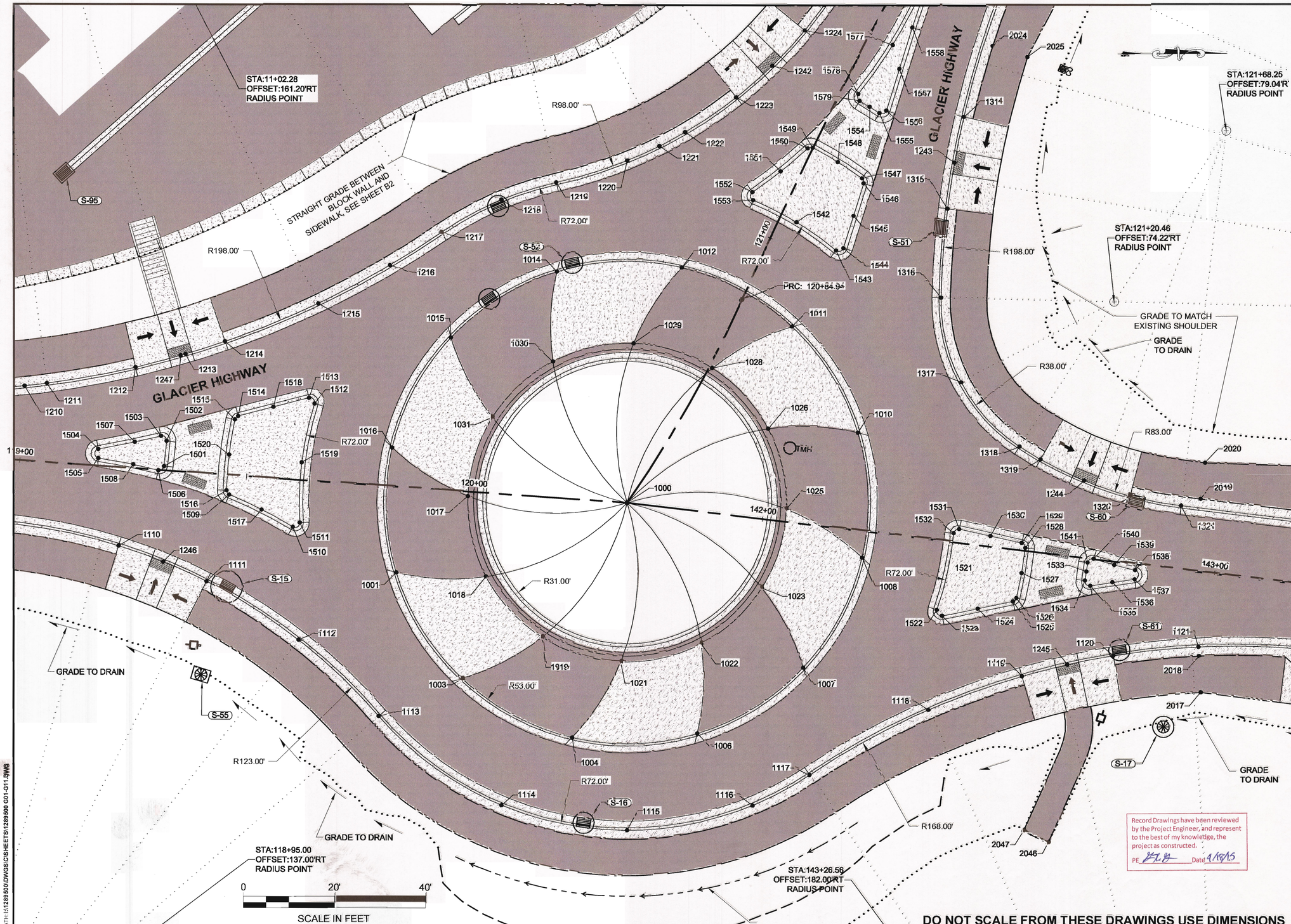
GRADING NOTES:

1. TOP BACK OF CURB POINTS CONSIST OF 1000 SERIES POINTS. ELEVATIONS ARE PROVIDED FOR FULL HEIGHT CURB, AND DON'T REFLECT CURB TRANSITIONS, TERMINALS, CURB CUTS OR RAMPS.
2. ALL DIMENSIONS ARE TO TOP BACK OF CURB, OR EDGE OF PAVEMENT, AS SHOWN.
3. EDGE OF PAVEMENT, OR EDGE OF SIDEWALK CONSIST OF 2000 SERIES POINTS.
4. CROSS SLOPE OF ROADWAY, INCLUDING SUPERELEVATION AND SUPERELEVATION TRANSITIONS ARE CONTROLLED BY THE GRADING POINTS, AND CENTERLINE PROFILES OF THE RESPECTIVE ROADWAYS.
5. SEE SHEETS G10-G11 FOR POINT TABLES. ELECTRONIC POINT FILES ARE AVAILABLE FROM THE ENGINEER UPON REQUEST.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: H:\1289500\DWGS\SHEETS\1289500 001-G11.DWG



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 4/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

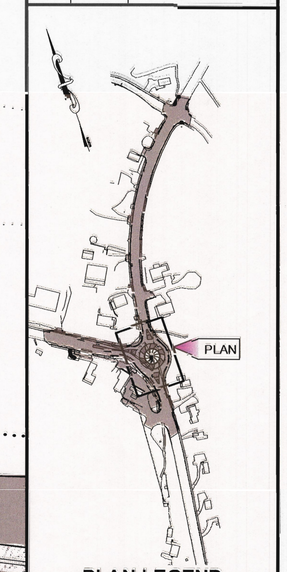
TAB: G2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

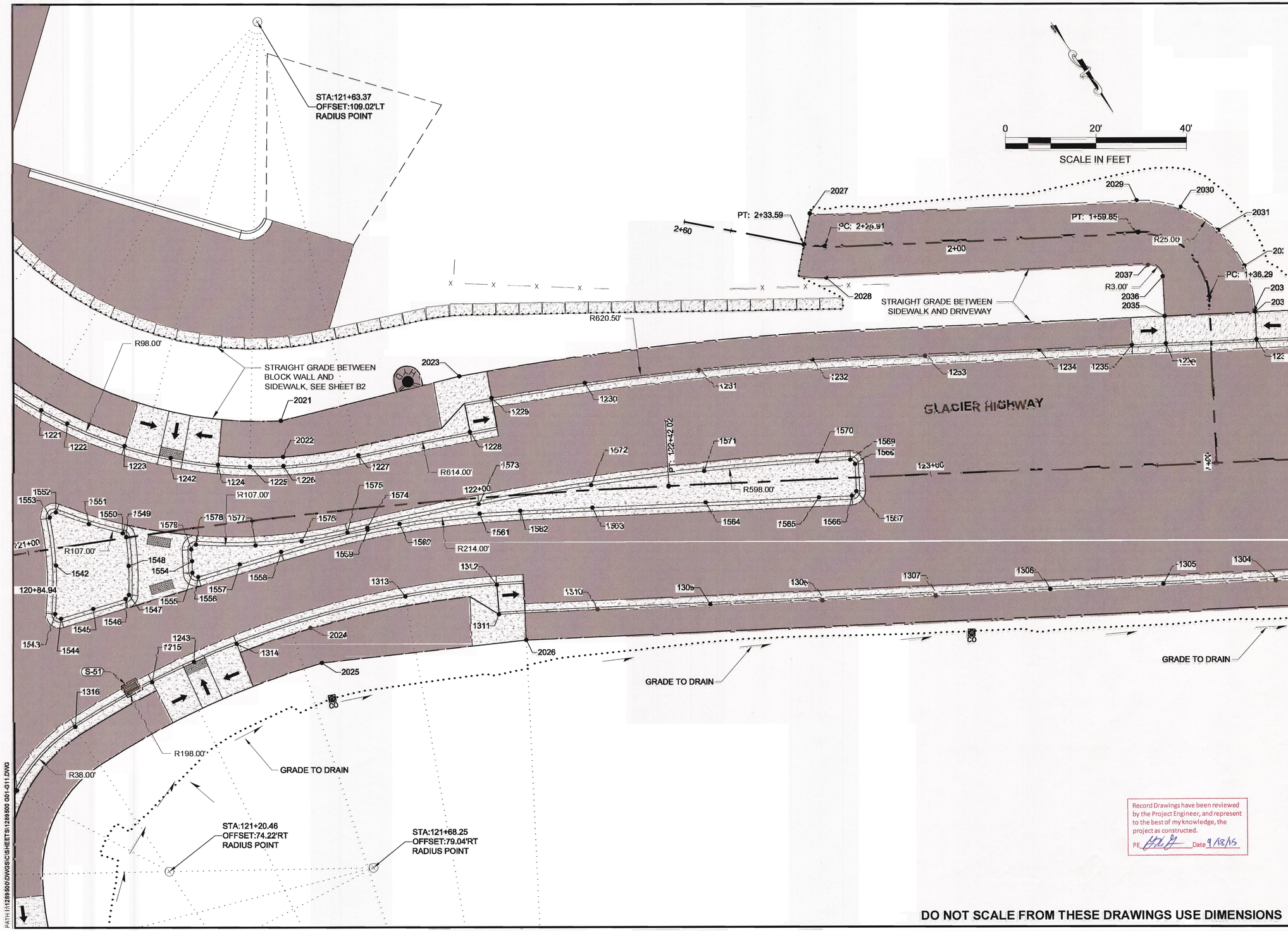
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G2	82

PATH: I:\1289500\DWGS\C\SHEETS\1289500 G01-G11.DWG



PATH: I:\1289500\DWGS\C\SHEETS\1289500 G01-G11.DWG

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

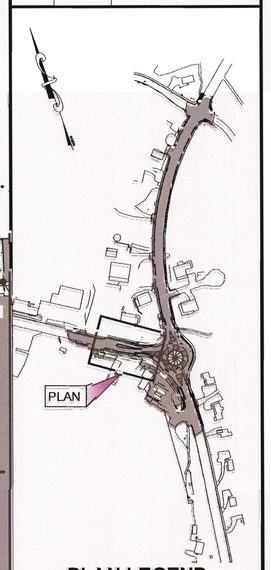
TAB: G3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

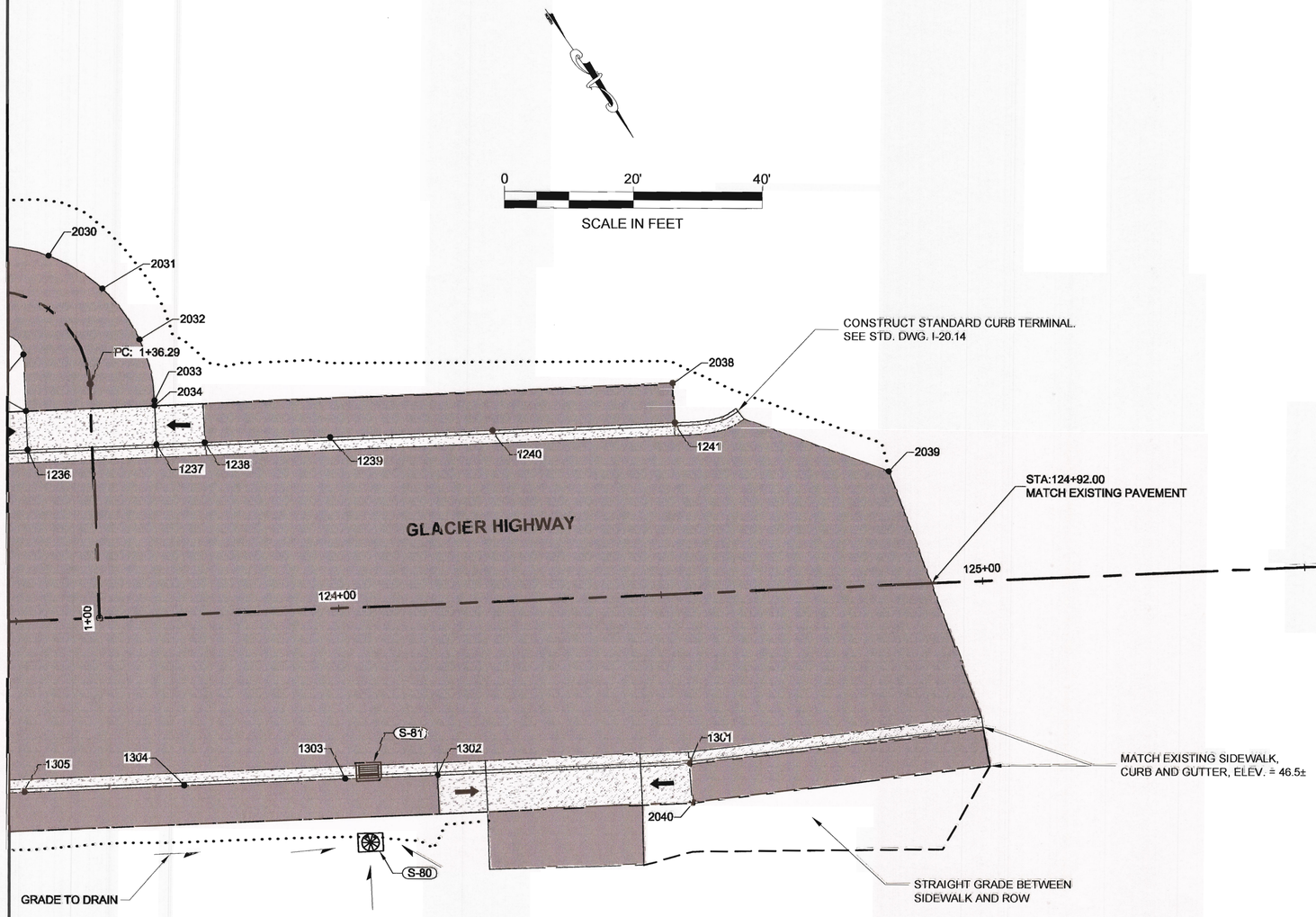
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G3	82



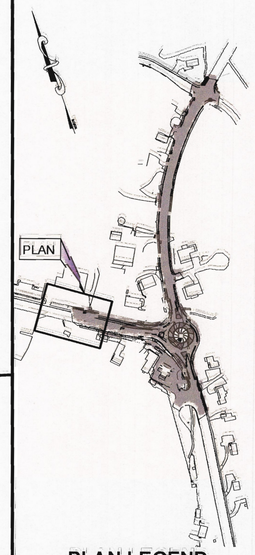
PREPARED BY: USKH
BILL PADDOCK

TAB: G4

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/9/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G4	82

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/26/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\CS\SHEETS\1289500 G01-G11.DWG

STA:144+28.00
OFFSET:72.71'LT
RADIUS POINT

GRADE TO DRAIN
CULVERT INLET
NOT SHOWN

EXISTING
ROOF DRAIN

0 20' 40'
SCALE IN FEET

2020
2041
2019
1323
1322
S-62
1324
1325
1326
S-64
1327
1326
1329
1330
1331
1332
1333
1334
143+00
PC: 143+94.21
144+00
60+00
BACK LOOP ROAD
145+00
1122
S-63
1123
1124
1125
1126
1127
S-18
S-19
R23.00'
6:1 FILL SLOPE,
SEE SHEET L2
GRADE
TO DRAIN
STA:143+88.94
OFFSET:43.50'RT
RADIUS POINT
1128
GRADE TO DRAIN
1129
CAROLINE STREET
SEE GRADING NOTE 1 REGARDING POINT
ELEVATIONS AT TRANSITIONS AND RAMPS.
1403
1404
1405
S-65
1406
1402
1401
1407
S-20
R98.00'
R18.00'
1130
1408
1409
GRADE TO DRAIN
GRADE TO DRAIN,
CULVERT INLET
NOT SHOWN
STA:144+61.23
OFFSET:41.50'RT
RADIUS POINT
S-21
STA. 60+63.94
MATCH EXISTING
MATCH EXISTING EDGE OF PAVEMENT.
CONSTRUCT STANDARD CURB TERMINAL.
SEE STD. DWG. I-20.14
STA:144+84.71
OFFSET:118.50'RT
RADIUS POINT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:I:\1289500\DWGS\CISHEETS\1289500 G01-G11.DWG

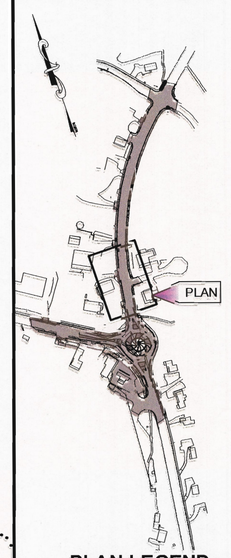
PREPARED BY: USKH
BILL PADDOCK

TAB: G5

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G5	82

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/19/13

PREPARED BY: USKH
BILL PADDOCK

TAB: **G6**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

0 20' 40'

SCALE IN FEET

GRADE TO DRAIN

BACK LOOP ROAD

1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344

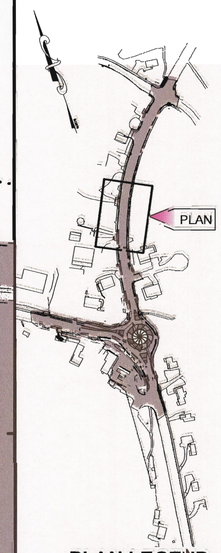
147+00 148+00 148+00

1408 1409 1410 1411 1412 S-66 1413 1414 1415 1416 1417 1418 S-67 1419

S-21 GRADE TO DRAIN

S-22 GRADE TO DRAIN

S-23



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8366
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

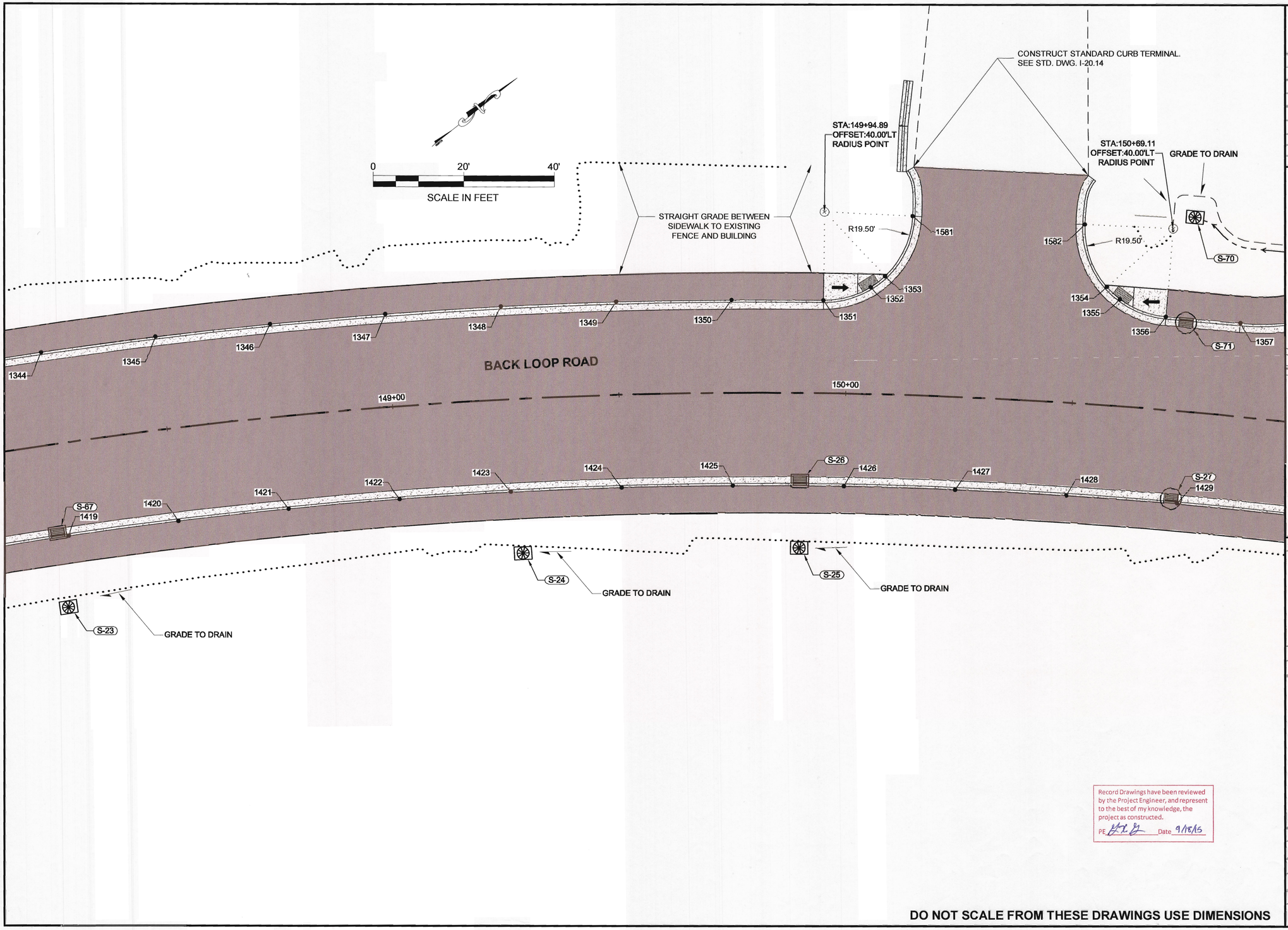
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/13/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G6	82

PATH: I:\1289\pod\DWGS\C\SHEETS\1289pod_G01-G11.DWG



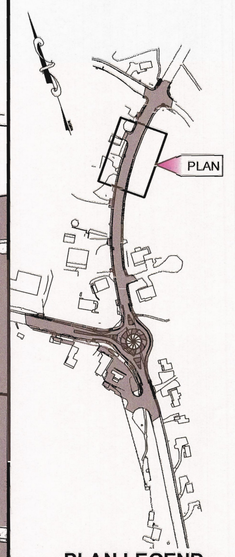
PREPARED BY: USKH
BILL PADDOCK

TAB: **G7**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan Leigh
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

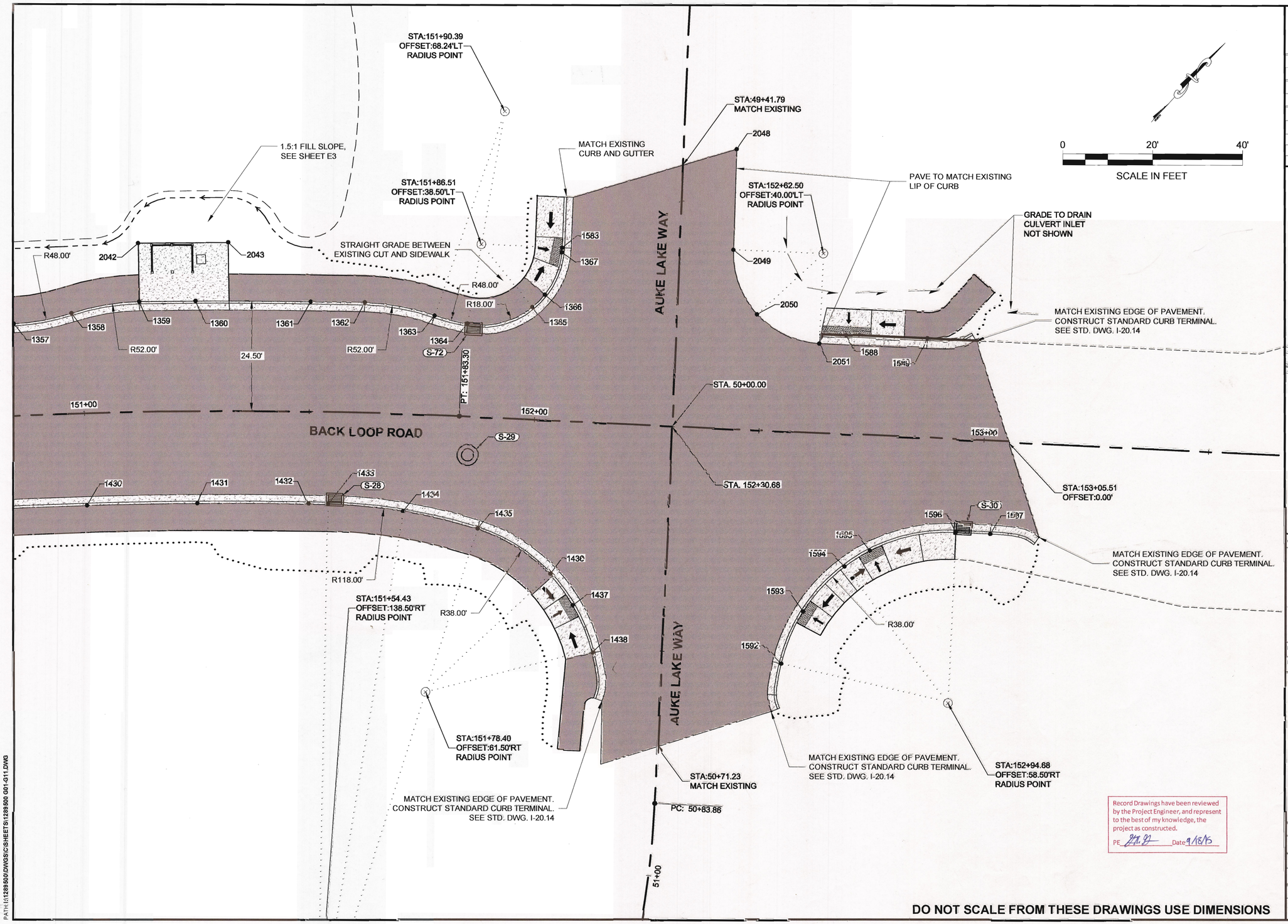
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/15/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
G7	**82**

PATH:H:\1289500\DWGS\CSHEETS\1289500 G01-G11.DWG



PREPARED BY: USKH
BILL PADDOCK

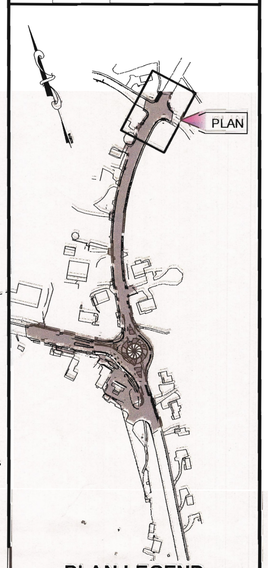
TAB: G8

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

GRADING PLAN

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G8	82

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\C\SHEETS\1289500 G01-G11.DWG

BUS YARD

STA:150+47.53
OFFSET:96.10'LT
MATCH EXISTING
ELEV.= 112.7±

STA:150+71.38
OFFSET:96.98'LT
MATCH EXISTING
ELEV.= 112.8±

MATCH EXISTING
GRAVEL PARKING AREA

STA:151+40.69
OFFSET:102.85'LT
MATCH EXISTING
ELEV.= 116.1±

STA:151+57.22
OFFSET:91.10'LT
MATCH EXISTING
ELEV.= 116.1±

GRADE TO DRAIN
3-4%

EXISTING FENCE,
DO NOT DISTURB

DRAINAGE SWALE

2%

GRADE BREAK

GRAVITY BLOCK WALL
~~JERSEY BARRIERS~~
TO KEEP FILL
AWAY FROM
BUILDING

BUS YARD
DRIVEWAY,
SEE SHEET F7

EXISTING
EDGE OF
GRAVEL

10%

STA:151+20.00
OFFSET:48.96'LT
EDGE OF GRAVEL PARKING AREA
ELEV.= 115.5

GRADE TO DRAIN
3-4%

EDGE OF GRAVEL
PARKING AREA

STA:151+19.99
OFFSET:47.46'LT
DITCH LINE
ELEV.= 114.5

STA:150+73.50
OFFSET:47.59'LT
EDGE OF GRAVEL PARKING AREA
ELEV.= 111.5

BUS PULLOUT
AND SHELTER,
SEE DETAIL
SHEET E3

STA:151+49.85
OFFSET:38.80'LT
EDGE OF GRAVEL PARKING AREA
ELEV.= 116.5

STA:151+50.00
OFFSET:36.53'LT
MATCH EXISTING DITCH LINE
ELEV.= 115.0±

DRIVEWAY
TO BE
ABANDONED

GRADE TO MATCH
EXISTING SHELTER

ROW

1581 1582 1583 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350

S-70 S-71 S-72

2042 2043

BACK LOOP ROAD

ST

S-29 S-27 S-28 S-26 S-25

1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437

AUKE LAKE WAY

49+00

0 20' 40'

SCALE IN FEET

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE. _____ Date 9/12/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:N:\1289500\DWGS\CSHEETS\1289500 G01-G11.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: G9

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GRADING PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G9	82

Point Table

Point #	Northing	Easting	Elevation	Description
1000	511005.40	485640.92	60.38	CC
1001	510954.69	485656.33	57.83	TBC
1003	510969.18	485679.62	58.50	TBC
1004	510993.38	485692.54	59.17	TBC
1006	511020.80	485691.63	59.85	TBC
1007	511044.09	485677.14	60.52	TBC
1008	511057.02	485652.94	60.97	TBC
1010	511056.11	485625.52	60.45	TBC
1011	511041.61	485602.22	59.34	TBC
1012	511017.41	485589.30	58.62	TBC
1014	510989.99	485590.21	58.24	TBC
1015	510966.70	485604.71	57.86	TBC
1016	510953.78	485628.91	57.53	TBC
1017	510970.43	485639.52	58.19	TBC
1018	510974.41	485657.19	58.53	TBC
1019	510986.70	485670.51	59.04	TBC
1021	511004.00	485675.89	59.54	TBC
1022	511021.67	485671.91	60.04	TBC
1023	511034.98	485659.62	60.55	TBC
1025	511040.37	485642.32	60.58	TBC
1026	511036.38	485624.65	59.96	TBC
1028	511024.10	485611.33	59.14	TBC
1029	511006.80	485605.95	58.76	TBC
1030	510989.12	485609.93	58.50	TBC
1031	510975.81	485622.22	58.24	TBC
1100	510672.69	485644.54	54.82	TBC
1101	510692.22	485647.56	54.63	TBC
1102	510721.05	485649.15	53.87	TBC
1103	510746.33	485650.15	53.48	TBC
1104	510769.29	485650.74	53.34	TBC
1105	510804.27	485651.04	53.49	TBC
1106	510825.95	485650.87	53.72	TBC
1107	510825.86	485644.37	53.62	TBC
1108	510846.58	485644.52	54.03	TBC
1109	510866.09	485645.47	54.58	TBC
1110	510893.70	485650.58	55.48	TBC
1111	510913.03	485658.35	56.29	TBC
1112	510933.25	485671.16	57.34	TBC
1113	510950.84	485687.91	58.17	TBC
1114	510977.84	485707.44	58.90	TBC
1115	511005.40	485712.92	59.52	TBC
1116	511032.95	485707.44	60.14	TBC
1117	511045.49	485700.73	60.45	TBC
1118	511071.60	485686.40	61.13	TBC
1119	511092.10	485678.96	61.61	TBC
1120	511112.20	485674.43	62.03	TBC
1121	511130.94	485672.47	62.41	TBC
1122	511156.22	485673.16	63.10	TBC
1123	511181.56	485682.72	64.24	TBC
1124	511206.38	485685.71	66.04	TBC
1125	511220.22	485687.37	67.15	TBC
1126	511231.39	485691.89	68.37	TBC
1127	511234.56	485694.81	68.85	TBC
1128	511240.47	485709.85	71.10	TBC
1129	511240.78	485729.59	~~71.50~~	TBC
1130	511268.61	485718.81	72.92	TBC
1202	510808.95	485570.65	48.78	TBC
1204	510782.20	485587.57	50.46	TBC
1205	510782.30	485593.25	50.74	TBC
1206	510802.05	485610.04	52.13	TBC

ELE: 73.51

Point Table

Point #	Northing	Easting	Elevation	Description
1207	510819.39	485609.95	52.55	TBC
1208	510825.46	485616.37	53.03	TBC
1209	510846.79	485616.51	53.78	TBC
1210	510873.05	485615.49	54.71	TBC
1211	510877.93	485614.91	54.88	TBC
1212	510897.42	485611.36	55.59	TBC
1213	510908.44	485608.43	55.99	TBC
1214	510917.12	485605.64	56.31	TBC
1215	510937.55	485597.25	57.10	TBC
1216	510953.31	485588.83	57.57	TBC
1217	510964.55	485581.63	57.77	TBC
1218	510977.84	485574.40	57.96	TBC
1219	510989.86	485570.62	58.13	TBC
1220	511005.40	485565.80	58.36	TBC
1221	511012.49	485562.61	58.45	TBC
1222	511018.15	485559.54	58.49	TBC
1223	511029.36	485551.91	58.43	TBC
1224	511044.39	485537.19	57.98	TBC
1225	511048.66	485531.60	57.73	TBC
1226	511052.72	485525.39	57.42	TBC
1227	511060.04	485510.46	56.72	TBC
1228	511069.63	485487.23	55.68	TBC
1229	511066.14	485479.06	55.32	TBC
1230	511074.99	485460.19	54.48	TBC
1231	511086.63	485437.60	53.45	TBC
1232	511098.99	485415.85	52.44	TBC
1233	511112.05	485394.54	51.35	TBC
1234	511125.19	485373.27	50.43	TBC
1235	511135.96	485355.82	49.72	TBC
1236	511139.90	485349.44	49.28	TBC
1237	511150.41	485332.43	48.52	TBC
1238	511154.35	485326.05	48.63	TBC
1239	511164.60	485309.46	48.08	TBC
1240	511177.74	485288.18	47.45	TBC
1241	511192.60	485264.12	46.82	TBC
1242	511037.27	485544.95	58.26	TBC
1243	511077.30	485566.14	58.29	TBC
1244	511105.77	485635.93	61.64	TBC
1245	511102.09	485676.41	61.82	TBC
1246	510903.52	485654.08	55.87	TBC
1247	510907.34	485608.76	55.95	TBC
1301	511237.69	485291.97	46.20	TBC
1302	511217.20	485325.15	47.71	TBC
1303	511209.69	485337.31	48.08	TBC
1304	511196.56	485358.58	48.79	TBC
1305	511183.42	485379.85	49.57	TBC
1306	511170.28	485401.12	50.43	TBC
1307	511157.15	485422.39	51.35	TBC
1308	511144.01	485443.66	52.44	TBC
1309	511130.87	485464.93	53.45	TBC
1310	511117.93	485485.88	54.44	TBC
1311	511106.45	485504.63	55.56	TBC
1312	511100.82	485501.38	55.46	TBC
1313	511091.59	485519.47	56.28	TBC
1314	511079.33	485556.08	57.84	TBC
1315	511075.79	485576.28	58.76	TBC
1316	511074.38	485595.83	59.72	TBC
1317	511078.74	485614.39	60.66	TBC
1318	511091.57	485628.49	61.23	TBC
1319	511096.19	485631.30	61.37	TBC

Point Table

Point #	Northing	Easting	Elevation	Description
1320	511115.86	485639.29	61.91	TBC
1321	511127.10	485641.44	62.21	TBC
1322	511159.56	485645.33	63.35	TBC
1323	511166.29	485639.60	63.62	TBC
1324	511196.08	485643.17	65.72	TBC
1325	511211.27	485645.00	67.11	TBC
1326	511236.20	485648.01	69.53	TBC
1327	511261.44	485651.48	71.86	TBC
1328	511286.59	485655.54	74.09	TBC
1329	511293.06	485656.69	74.66	TBC
1330	511331.14	485664.24	78.02	TBC
1331	511336.58	485665.44	78.50	TBC
1332	511361.39	485671.26	80.67	TBC
1333	511386.05	485677.66	82.81	TBC
1334	511410.12	485684.51	84.87	TBC
1335	511449.22	485696.94	88.17	TBC
1336	511459.04	485700.32	88.99	TBC
1337	511483.00	485709.01	90.98	TBC
1338	511506.74	485718.26	92.93	TBC
1339	511530.26	485728.06	94.84	TBC
1340	511553.85	485738.56	96.75	TBC
1341	511576.58	485749.31	98.56	TBC
1342	511597.98	485760.04	100.24	TBC
1343	511621.84	485772.71	102.08	TBC
1344	511644.05	485785.20	103.76	TBC
1345	511665.96	485798.21	105.39	TBC
1346	511687.56	485811.73	106.96	TBC
1347	511708.84	485825.75	108.48	TBC
1348	511729.78	485840.26	109.95	TBC
1349	511750.37	485855.27	111.36	TBC
1350	511770.61	485870.75	112.72	TBC
1351	511786.44	485883.41	113.83	TBC
1352	511796.43	485887.65	114.49	TBC
1353	511800.40	485887.72	114.73	TBC
1354	511837.25	485919.93	116.53	TBC
1355	511837.86	485923.86	116.80	TBC
1356	511843.39	485933.19	117.39	TBC
1357	511855.33	485944.55	118.16	TBC
1358	511865.79	485952.23	118.83	TBC
1359	511878.08	485961.49	119.61	TBC
1360	511886.79	485970.45	120.13	TBC
1361	511904.28	485989.11	121.14	TBC
1362	511912.31	485997.96	121.63	TBC
1363	511920.96	486011.22	122.09	TBC
1364	511924.55	486017.76	122.30	TBC
1365	511937.13	486025.72	122.68	TBC
1366	511941.17	486025.82	122.77	TBC
1367	511950.60	486022.14	122.97	TBC
1401	511273.28	485706.43	72.21	TBC
1402	511275.59	485704.30	72.24	TBC
1403	511285.15	485700.59	72.90	TBC
1404	511299.15	485700.45	74.18	TBC
1405	511313.02	485702.31	75.39	TBC
1406	511327.68	485705.46	76.74	TBC
1407	511351.55	485711.06	78.91	TBC
1408	511375.28	485717.22	81.04	TBC
1409	511398.86	485723.94	83.14	TBC
1410	511422.28	485731.21	85.20	TBC
1411	511445.52	485739.03	87.23	TBC
1412	511468.57	485747.39	89.21	TBC

NOTE:

SEE SHEET G1 FOR GRADING NOTES.

CC = CENTER OF CIRCLE

TBC = TOP BACK OF CURB

EP= EDGE OF PAVEMENT

*FINISHED GRADE ELEVATIONS WERE NOT CONFIRMED BY SURVEY OF AS-BUILT CONDITIONS.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE WLB Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **G10**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan C. Leigh CE-8386 4/18/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

POINT TABLES

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G10	82

PATH: I:\128500\DWGS\SHEETS\128500 G01-G11.DWG

Point Table

Point #	Northing	Easting	Elevation	Description
1413	511491.41	485756.29	91.17	TBC
1414	511514.04	485765.72	93.08	TBC
1415	511536.45	485775.68	94.96	TBC
1416	511558.61	485786.17	96.80	TBC
1417	511580.52	485797.17	98.58	TBC
1418	511602.17	485808.68	100.32	TBC
1419	511623.54	485820.70	102.00	TBC
1420	511644.62	485833.21	103.62	TBC
1421	511665.41	485846.22	105.20	TBC
1422	511685.88	485859.71	106.72	TBC
1423	511706.03	485873.68	108.18	TBC
1424	511725.84	485888.12	109.59	TBC
1425	511745.32	485903.02	110.95	TBC
1426	511764.43	485918.37	112.25	TBC
1427	511783.18	485934.17	113.50	TBC
1428	511801.56	485950.40	114.71	TBC
1429	511819.55	485967.06	115.90	TBC
1430	511837.14	485984.14	117.08	TBC
1431	511854.33	486001.62	118.18	TBC
1432	511871.10	486019.50	119.21	TBC
1433	511874.03	486022.71	119.39	TBC
1434	511884.45	486035.98	120.11	TBC
1435	511892.88	486050.60	120.67	TBC
1436	511896.62	486069.29	121.21	TBC
1437	511895.19	486077.72	121.31	TBC
1438	511890.36	486088.15	121.30	TBC
1501	510903.70	485633.11	55.81	TBC
1502	510904.28	485627.56	55.74	TBC
1503	510903.05	485626.46	55.57	TBC
1504	510889.24	485629.36	55.15	TBC
1505	510889.27	485631.33	55.28	TBC
1506	510902.45	485634.00	55.73	TBC
1507	510897.27	485627.79	55.39	TBC
1508	510896.94	485632.69	55.54	TBC
1509	510918.05	485639.31	56.25	TBC
1510	510932.03	485646.32	56.96	TBC
1511	510933.54	485645.40	57.20	TBC
1512	510936.74	485619.25	57.16	TBC
1513	510935.53	485617.98	56.90	TBC
1514	510920.01	485622.05	56.09	TBC
1515	510919.28	485622.81	56.03	TBC
1516	510917.43	485638.35	56.18	TBC
1517	510925.16	485642.58	56.60	TBC
1518	510927.77	485620.02	56.48	TBC
1519	510933.93	485632.18	57.13	TBC
1520	510918.01	485630.54	56.15	TBC
1521	511075.79	485656.07	61.36	TBC
1522	511073.46	485664.41	61.21	TBC
1523	511074.61	485665.72	61.05	TBC
1524	511082.37	485664.11	61.25	TBC
1525	511090.13	485662.50	61.45	TBC
1526	511090.89	485661.76	61.53	TBC
1527	511092.05	485656.29	61.66	TBC
1528	511092.85	485650.75	61.75	TBC
1529	511092.07	485649.66	61.64	TBC
1530	511085.19	485648.15	61.49	TBC
1531	511078.31	485646.63	61.34	TBC
1532	511077.10	485647.51	61.33	TBC
1533	511106.29	485655.94	61.91	TBC
1534	511105.97	485657.91	61.87	TBC

Point Table

Point #	Northing	Easting	Elevation	Description	
1535	511107.13	485659.06	61.89	TBC	
1536	511112.00	485658.27	62.01	TBC	
1537	511116.89	485657.61	62.13	TBC	
1538	511116.99	485655.65	62.23	TBC	
1539	511112.40	485654.48	62.14	TBC	
1540	511107.86	485653.14	62.05	TBC	
1541	511106.56	485653.96	61.95	TBC	
1542	511042.61	485579.29	58.98	TBC	
1543	511051.32	485585.47	59.26	TBC	
1544	511052.92	485585.00	59.07	TBC	
1545	511055.14	485577.87	58.63	TBC	
1546	511057.37	485570.75	58.36	TBC	
1547	511057.00	485569.64	58.38	TBC	
1548	511051.71	485566.09	58.50	TBC	
1549	511046.17	485562.94	58.59	TBC	
1550	511045.03	485563.09	58.59	TBC	
1551	511039.14	485568.12	58.58	TBC	
1552	511032.91	485572.71	58.58	TBC	
1553	511033.09	485574.46	58.69	TBC	
1554	511058.68	485553.94	58.35	TBC	
1555	511060.86	485555.32	58.31	TBC	
1556	511062.36	485554.78	58.18	TBC	
1557	511065.21	485545.64	57.83	TBC	
1558	511068.06	485536.51	57.46	TBC	
1559	511074.77	485518.07	56.69	TBC	
1560	511077.63	485511.50	56.41	TBC	
1561	511085.68	485495.63	55.72	TBC	
1562	511090.25	485487.87	55.37	TBC	
1563	511098.62	485474.33	54.75	TBC	
1564	511111.73	485453.10	53.77	TBC	
1565	511124.87	485431.83	52.79	TBC	
1566	511128.70	485425.62	52.50	TBC	
1567	511128.38	485424.24	52.39	TBC	
1568	511123.28	485421.09	52.39	TBC	
1569	511121.90	485421.42	52.50	TBC	
1570	511118.13	485427.68	52.79	TBC	
1571	511105.81	485449.45	53.80	TBC	
1572	511094.37	485471.78	54.82	TBC	
1573	511083.87	485494.60	55.83	TBC	
1574	511074.34	485517.84	56.85	TBC	
1575	511072.73	485522.07	57.03	TBC	
1576	511068.67	485531.45	57.43	TBC	
1577	511063.74	485540.40	57.84	TBC	
1578	511056.18	485551.13	58.36	TBC	
1579	511056.46	485552.62	58.37	TBC	
1580	510825.37	485609.87	53.13	TBC	
1581	511813.44	485881.12	~~0.00~~	TBC	ELE: 114.83
1582	511842.05	485906.13	115.48	TBC	
1583	511951.40	486021.48	122.98	TBC	
1588	511980.42	486080.64	124.10	TBC	
1589	511992.25	486094.39	124.44	TBC	
1592	511917.53	486120.28	122.06	TBC	
1593	511929.33	486115.85	122.86	TBC	
1594	511942.94	486115.68	123.45	TBC	
1595	511949.38	486117.36	123.64	TBC	
1596	511965.42	486128.37	124.04	TBC	
1597	511970.44	486134.21	123.72	TBC	
2001	510662.53	485604.89	53.48	EP	
2002	510694.79	485608.64	52.82	EP	
2003	510717.35	485602.94	51.82	EP	

Point Table

Point #	Northing	Easting	Elevation	Description
2004	510732.36	485585.15	50.93	EP
2005	510734.17	485561.94	49.23	EP
2006	510722.12	485542.03	46.14	EP
2011	510826.03	485656.87	53.81	EP
2012	510859.22	485655.06	54.53	EP
2013	510859.67	485647.07	54.41	EP
2014	510825.28	485603.87	53.22	EP
2015	510858.49	485606.48	54.35	EP
2016	510858.76	485614.48	54.23	EP
2017	511131.42	485682.46	62.56	EP
2018	511131.04	485674.47	62.44	EP
2019	511131.41	485639.94	62.34	EP
2020	511132.37	485632.00	62.46	EP
2021	511044.15	485520.24	57.57	EP
2022	511051.01	485524.36	57.45	EP
2023	511058.18	485482.22	55.86	EP
2024	511085.68	485540.51	57.19	EP
2025	511093.30	485542.95	57.31	EP
2026	511114.50	485502.85	55.41	EP
2027	511072.06	485398.13	47.58	EP
2028	511085.82	485403.17	47.89	EP
2029	511110.23	485336.99	48.00	EP
2030	511116.88	485329.85	48.15	EP
2031	511125.75	485325.80	48.30	EP
2032	511135.50	485325.45	48.45	EP
2033	511144.64	485328.86	48.60	EP
2034	511145.31	485329.27	48.61	EP
2035	511134.80	485346.29	49.37	EP
2036	511127.32	485341.67	48.45	EP
2037	511123.19	485342.65	48.31	EP
2038	511187.49	485260.97	0.00	EP
2039	511217.47	485240.78	46.18	EP
2040	511242.95	485294.87	0.00	EP
2041	511161.05	485632.92	63.54	EP
2042	511887.36	485952.38	117.75	EP
2043	511901.28	485966.81	119.61	EP
2046	511097.82	485715.66	64.17	EP
2047	511092.43	485713.01	63.71	EP
2048	511993.96	486034.59	123.18	EP
2049	511977.19	486049.42	123.01	EP
2050	511970.35	486063.07	123.29	EP
2051	511975.14	486077.56	123.60	EP

*FINISHED GRADE ELEVATIONS WERE NOT CONFIRMED BY SURVEY OF AS-BUILT CONDITIONS.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **G11**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan G. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

POINT TABLES

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
G11	82

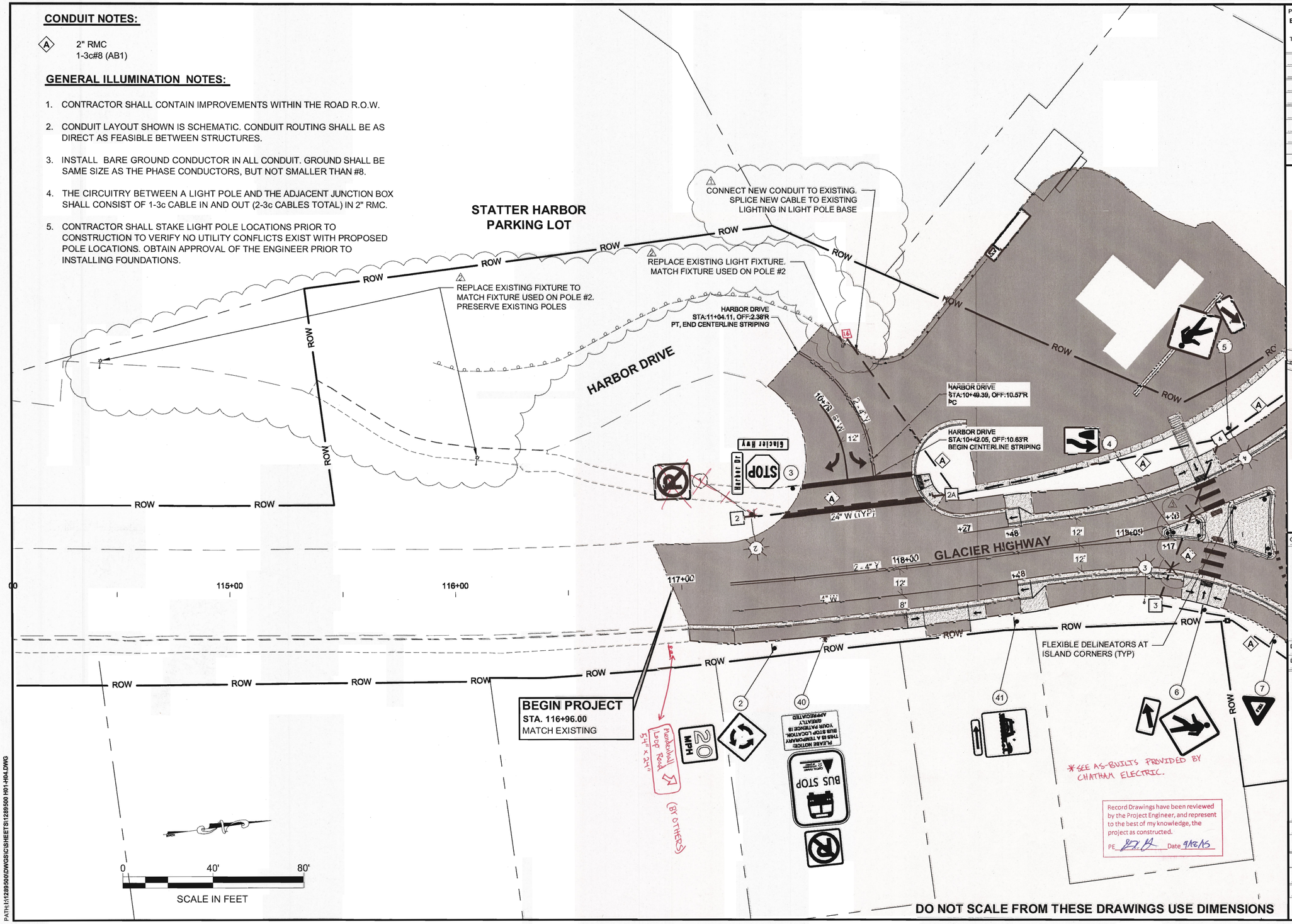
PATH:H:\1289500\DWGS\CSHEETS\1289500 G01-G11.DWG

CONDUIT NOTES:

(A) 2" RMC
1-3c#8 (AB1)

GENERAL ILLUMINATION NOTES:

1. CONTRACTOR SHALL CONTAIN IMPROVEMENTS WITHIN THE ROAD R.O.W.
2. CONDUIT LAYOUT SHOWN IS SCHEMATIC. CONDUIT ROUTING SHALL BE AS DIRECT AS FEASIBLE BETWEEN STRUCTURES.
3. INSTALL BARE GROUND CONDUCTOR IN ALL CONDUIT. GROUND SHALL BE SAME SIZE AS THE PHASE CONDUCTORS, BUT NOT SMALLER THAN #8.
4. THE CIRCUITRY BETWEEN A LIGHT POLE AND THE ADJACENT JUNCTION BOX SHALL CONSIST OF 1-3c CABLE IN AND OUT (2-3c CABLES TOTAL) IN 2" RMC.
5. CONTRACTOR SHALL STAKE LIGHT POLE LOCATIONS PRIOR TO CONSTRUCTION TO VERIFY NO UTILITY CONFLICTS EXIST WITH PROPOSED POLE LOCATIONS. OBTAIN APPROVAL OF THE ENGINEER PRIOR TO INSTALLING FOUNDATIONS.



PATH:H:\1289500\DWGS\CS\SHEETS\1289500 H01-H04.DWG

PREPARED BY: USKH
BILL PADDOCK

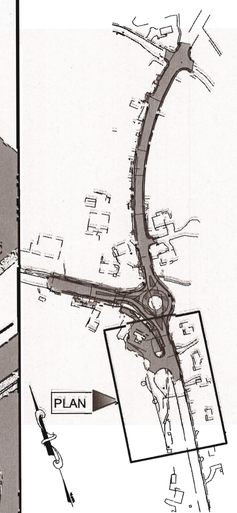
TAB: H1

ADDENDUM NUMBER
1 & 2

ATTACHMENT NUMBER
2

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	4/23/13	ADDENDUM 1
2	4/26/13	ADDENDUM 2
3	9/20/13	WIRING CHANGE



PLAN LEGEND

CHECKED BY: L. GALBRAITH

STATE OF ALASKA
49 TH
Leon R.Galbraith
CE-12583
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

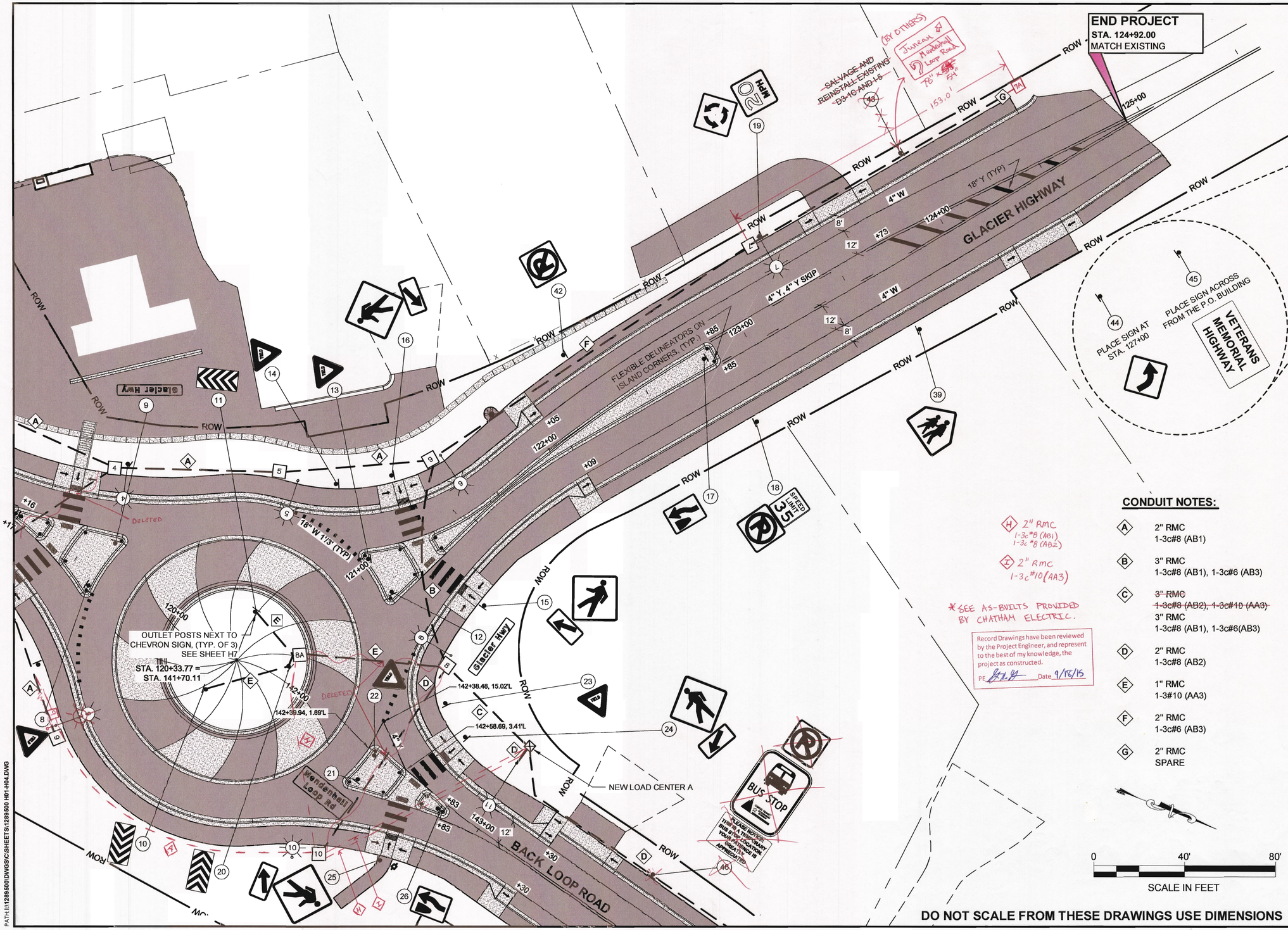
DRAWN BY: M. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGNING, STRIPING & ILLUMINATION

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H1	82



CONDUIT NOTES:

- (A) 2" RMC 1-3c#8 (AB1)
- (B) 3" RMC 1-3c#8 (AB1), 1-3c#6 (AB3)
- (C) ~~3" RMC 1-3c#8 (AB2), 1-3c#10 (AA3)~~ 3" RMC 1-3c#8 (AB1), 1-3c#6(AB3)
- (D) 2" RMC 1-3c#8 (AB2)
- (E) 1" RMC 1-3#10 (AA3)
- (F) 2" RMC 1-3c#6 (AB3)
- (G) 2" RMC SPARE

(H) 2" RMC 1-3c#8 (AB1) 1-3c#8 (AB2)

(I) 2" RMC 1-3c#10 (AA3)

*SEE AS-BUILTS PROVIDED BY CHATHAM ELECTRIC.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

0 40' 80'
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

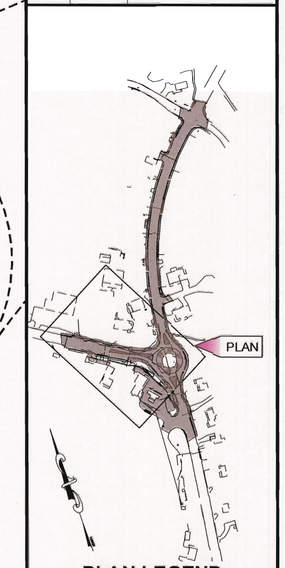
PREPARED BY: USKH
BILL PADDOCK
TAB: H2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO

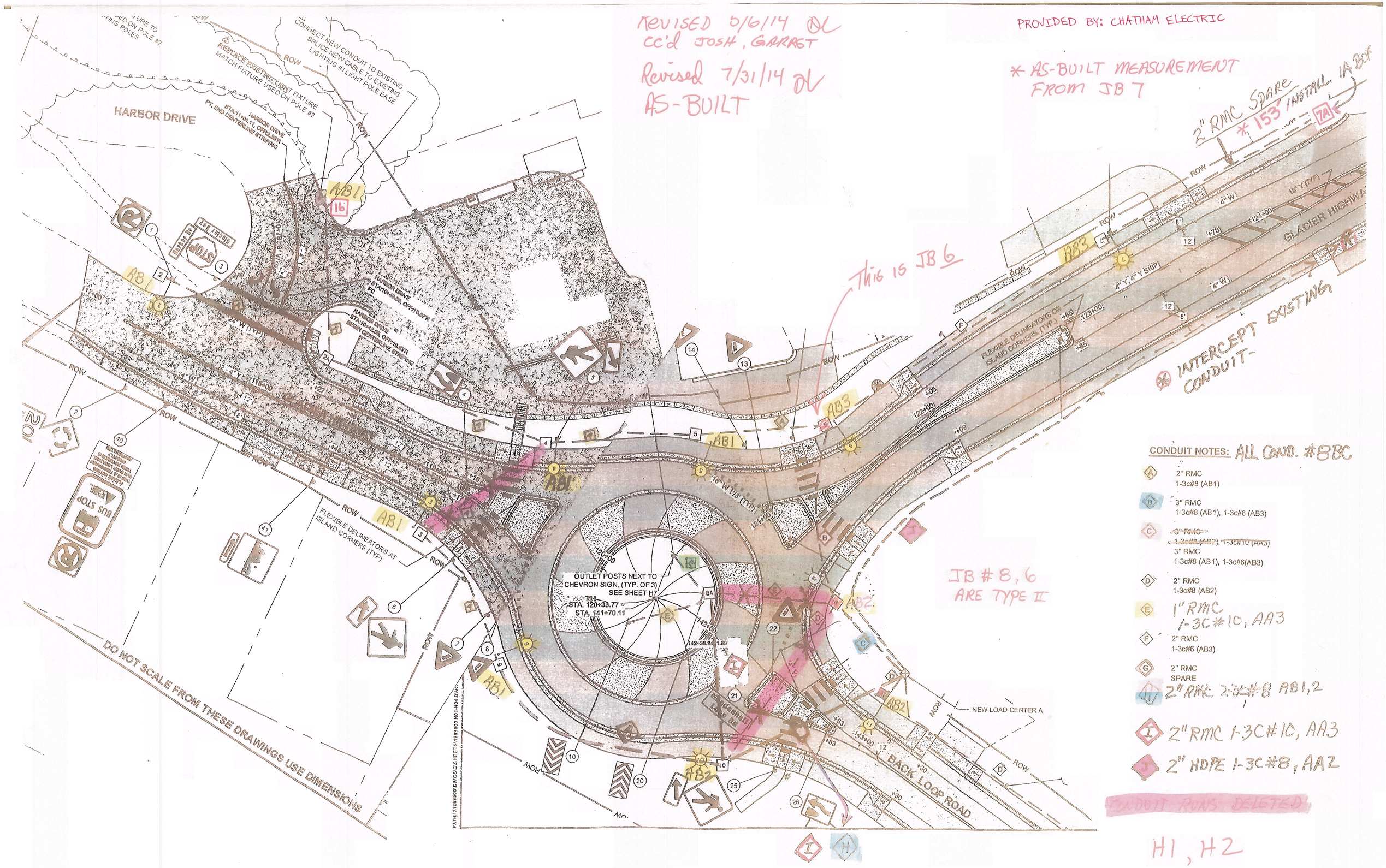
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGNING, STRIPING & ILLUMINATION

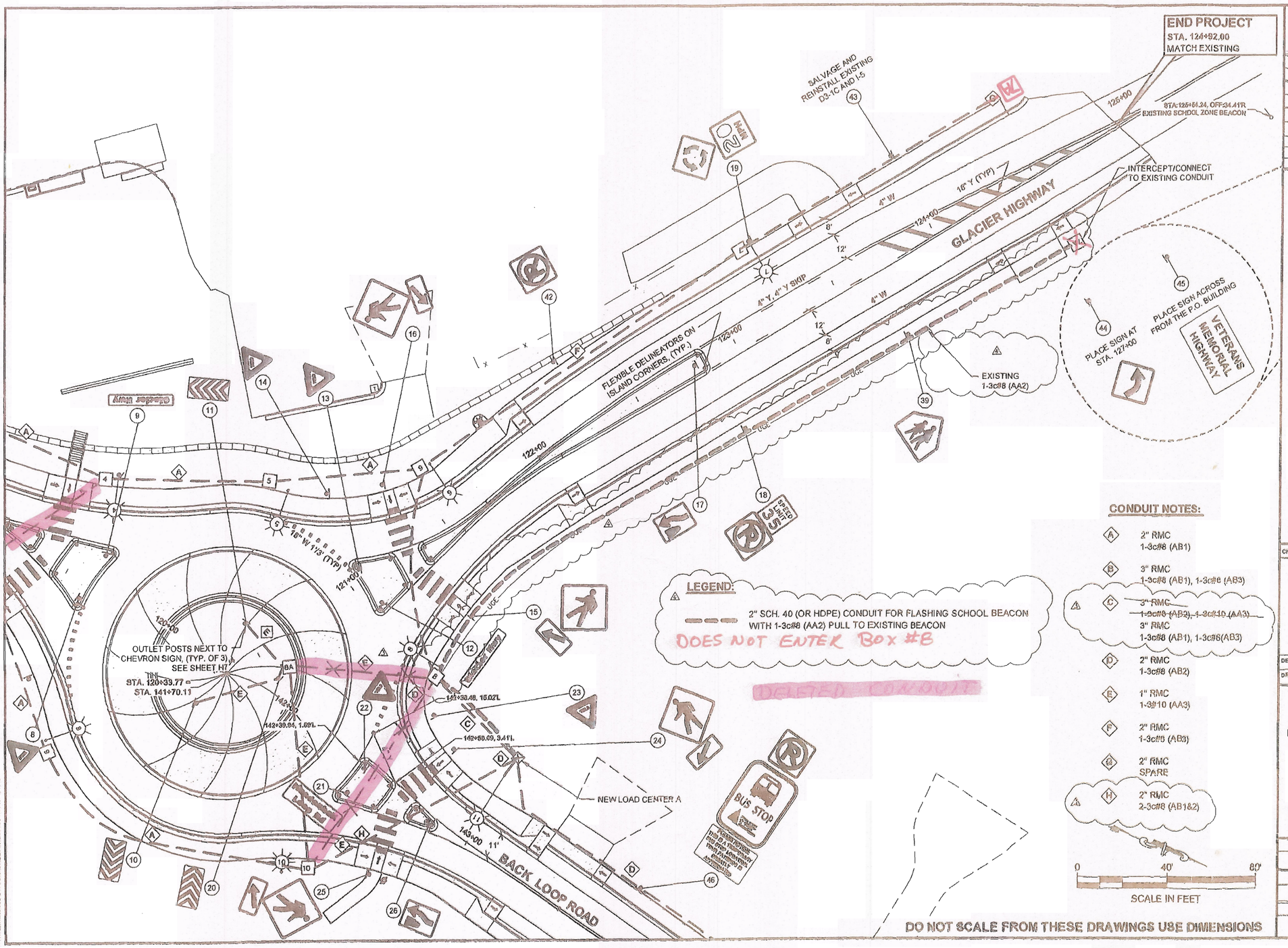
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H2	82

PATH: I:\1289500\DWGS\C\SHEETS\1289500 H01-H04.DWG



REVISED 5/6/14 DL
cc'd JOSH, GARRET
Revised 7/31/14 DL
AS-BUILT
PROVIDED BY: CHATHAM ELECTRIC
* AS-BUILT MEASUREMENT FROM JB 7
2" RMC SPARE
* 153' INSTALL 1A BOX
This is JB 6
* INTERCEPT EXISTING CONDUIT-
JB # 8, 6 ARE TYPE II
HARBOR DRIVE
REPLACE EXISTING LIGHT FIXTURE MATCH FIXTURE USED ON POLE #2
CONNECT NEW CONDUIT TO EXISTING. SPLICE NEW CABLE TO EXISTING LIGHTING IN LIGHT POLE BASE
FLEXIBLE DELINEATORS AT ISLAND CORNERS (TYP)
FLEXIBLE DELINEATORS ON ISLAND CORNERS (TYP)
OUTLET POSTS NEXT TO CHEVRON SIGN, (TYP. OF 3) SEE SHEET H7
STA. 120+33.77 = STA. 141+70.11
NEW LOAD CENTER A
BACK LOOP ROAD
GLACIER HIGHWAY
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS
CONDUIT NOTES: ALL COND. #8BC
A 2" RMC 1-3c#8 (AB1)
B 3" RMC 1-3c#8 (AB1), 1-3c#6 (AB3)
C ~~3" RMC 1-3c#8 (AB2), 1-3c#10 (AA3)~~ 3" RMC 1-3c#8 (AB1), 1-3c#6(AB3)
D 2" RMC 1-3c#8 (AB2)
E 1" RMC 1-3C#10, AA3
F 2" RMC 1-3c#6 (AB3)
G 2" RMC SPARE
H 2" RMC 2-3C#8 AB1,2
I 2" RMC 1-3C#10, AA3
J 2" HDPE 1-3C#8, AA2
CONDUIT RUNS DELETED
H1, H2

PROVIDED BY: CHATHAM ELECTRIC



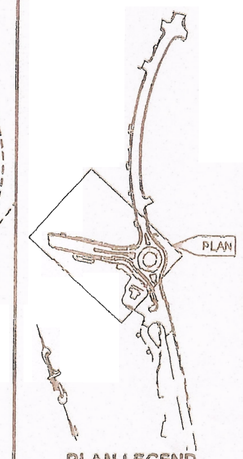
PREPARED BY: USKH
JORDAN HALL
TAB: H2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	9/20/13	WIRING CHANGE
4	3/3/14	WIRING CHANGE



PLAN LEGEND

CHECKED BY: L. GALBRAITH

STATE OF ALASKA 49TH Leon R. Galbraith CE-12609 3/4/2014 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: N. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

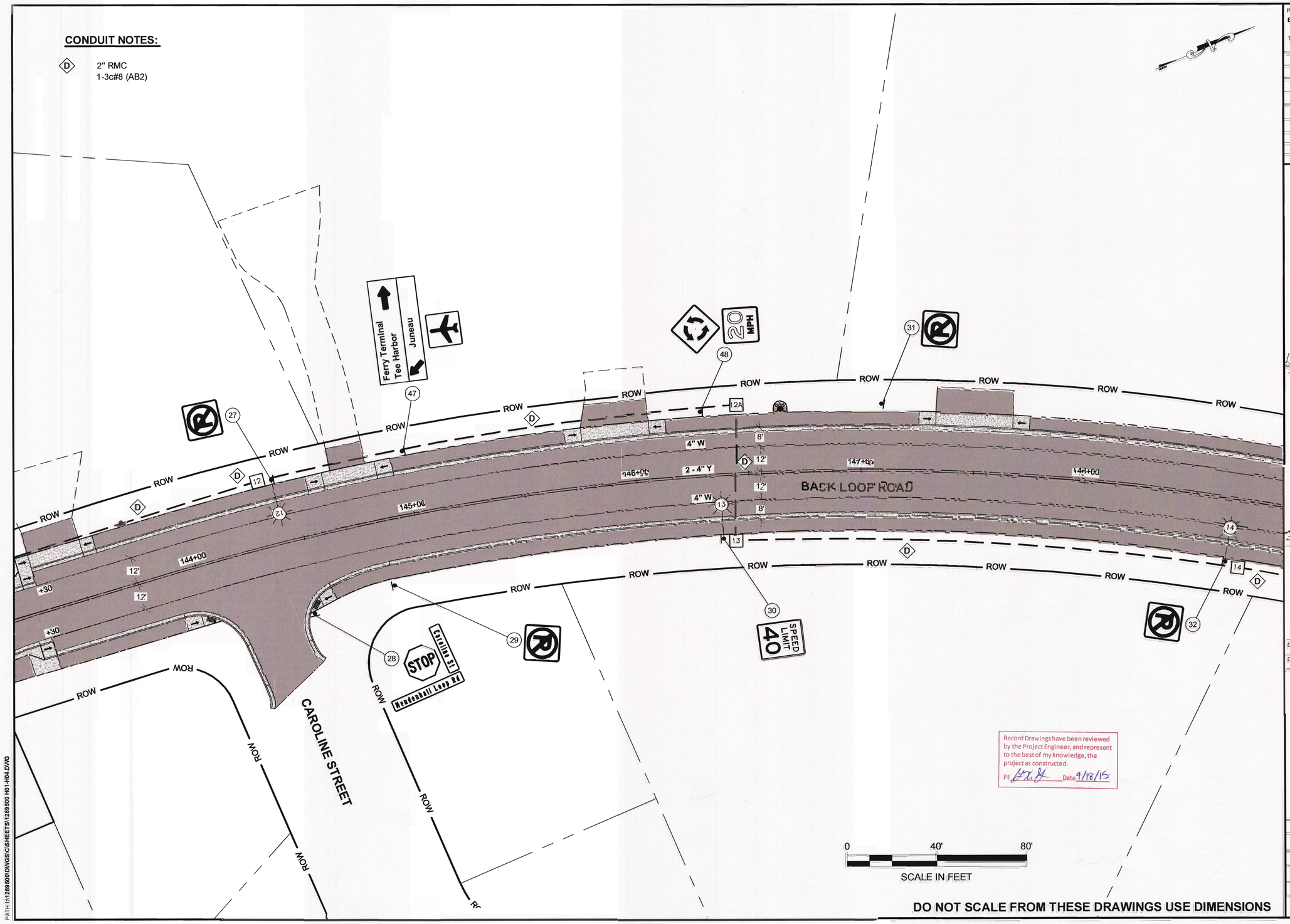
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGNING, STRIPING & ILLUMINATION

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H2 R	82

CONDUIT NOTES:

D 2" RMC
1-3c#8 (AB2)



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: H:\1289500\DWG\SC\SHEETS\1289500 H01-H04.DWG

PREPARED BY: USKH
BILL PADDOCK

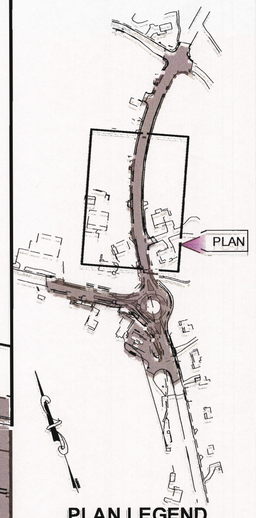
TAB: **H3**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
1/31/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

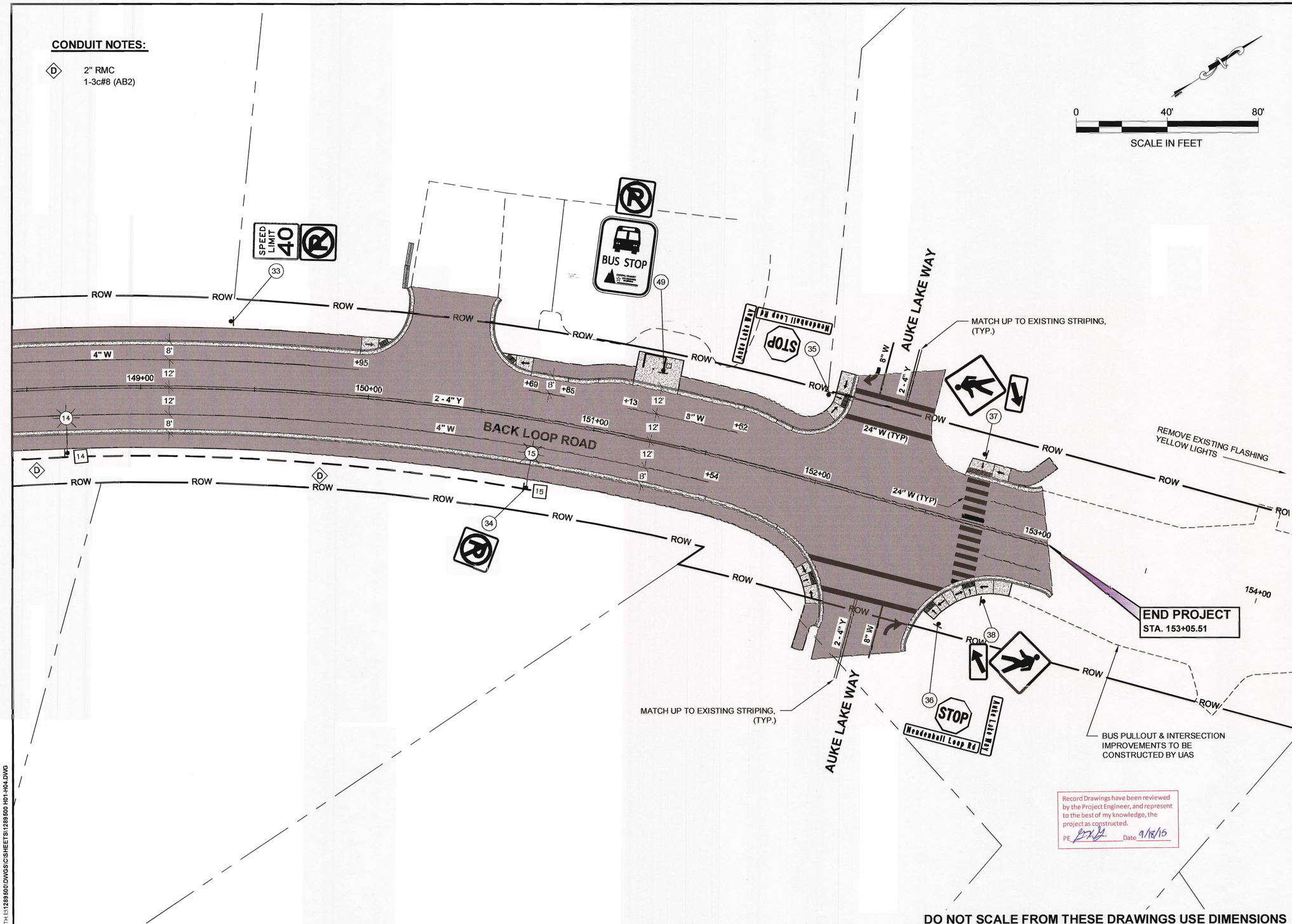
DRAWN BY: M. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGNING, STRIPING & ILLUMINATION

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H3	82



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

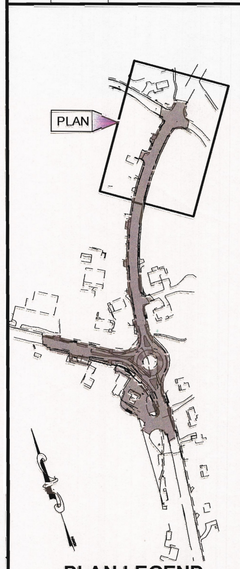
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK
TAB: H4

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK
DRAWN BY: M. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGNING, STRIPING & ILLUMINATION

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H4	82

PATH: I:\1289500\DWGS\C\SHEETS\1289500 H01-H04.DWG

615(1) STANDARD SIGN SUMMARY

SIGN NO.	STATION	OFFSET		Code No. ASDS	Legend	SIZE (INCHES)		AREA SQ. FT	SIGN FACES	POST TYPE	REMARKS
		LT	RT			W	H				
~~1~~	~~117+33~~	~~X~~		~~R8-3A~~	~~NO PARKING SYMBOL~~	~~24~~	~~24~~	~~4.00~~	~~N~~	~~2½" PST~~	NOT INSTALLED
2	117+39		X	W2-6	ROUNDABOUT SYMBOL	36	36	9.00	S	2½" PST	
2a				W13-1	20 MPH	24	24	4.00	S		
3	117+53	X		R1-1	STOP	30	30	6.25	W	2½" PST	
3a				D3-1D	HARBOR DR	~~30~~ 42	~~8~~ 12	~~1.67~~ 3.5	N		
3b				D3-1D	GLACIER HWY	36	8	2.00	W		
4	119+17	X		R4-7	STAY RIGHT SYMBOL	24	30	5.00	S	2½" PST	
5	119+47	X		W11-2	PED SYMBOL	36	36	9.00	N	2½" PST	
5a				W16-7P	DOWN ARROW	30	18	3.75	N		
6	119+31		X	W11-2	PED SYMBOL	36	36	9.00	S	2½" PST	
6a				W16-7P	DOWN ARROW	30	18	3.75	S		
7	119+61		X	R1-2	YIELD	36	36	9.00	S	2½" PST	
8	119+61		X	R1-2	YIELD	36	36	9.00	S	2½" PST	
9	119+61	X		D3-2	GLACIER HWY	72	12	6.00	W	2-2½" PST	
10	120+29		X	R6-4	> >	30 ~~36~~	24	5.0 ~~6.00~~	S	2½" PST	MOUNT ON OUTLET POST
11	120+29	X		R6-4	> >	30 ~~36~~	24	5.0 ~~6.00~~	W	2½" PST	MOUNT ON OUTLET POST
12	121+07		X	D3-2	GLACIER HWY	72	12	6.00	E	2-2½" PST	~~MOUNT ON OUTLET POST~~
13	121+07	X		R1-2	YIELD	36	36	9.00	W	2½" PST	
14	121+15	X		R1-2	YIELD	36	36	9.00	W	2½" PST	
15	121+37		X	W11-2	PED SYMBOL	36	36	9.00	E	2½" PST	
15a				W16-7P	DOWN ARROW	30	18	3.75	E		
16	121+37	X		W11-2	PED SYMBOL	36	36	9.00	W	2½" PST	
16a				W16-7P	DOWN ARROW	30	18	3.75	W		
17	122+81		X	R4-7	STAY RIGHT SYMBOL	24	30	5.00	W	2½" PST	
18a	123+17		X	R8-3A	NO PARKING SYMBOL	24	24	4.00	E	2½" PST	
18	123+17		X	R2-1	SPEED LIMIT 35 MPH	30	36	7.50	E	2½" PST	
19	123+27	X		W2-6	ROUNDABOUT SYMBOL	36	36	9.00	W	2½" PST	
19a				W13-1	20 MPH	24	24	4.00	W		
20	141+91	X		R6-4	> >	30 ~~36~~	24	5.0 ~~6.00~~	N	2½" PST	MOUNT ON OUTLET POST
21	142+44		X	D3-2	MENDENHALL LOOP RD	48 ~~66~~	24 ~~12~~	8.0 ~~5.50~~	S	2-2½" PST	
22	142+44	X		R1-2	YIELD	36	36	9.00	N	2½" PST	
23	142+56	X		R1-2	YIELD	36	36	9.00	N	2½" PST	
24	142+72	X		W11-2	PED SYMBOL	36	36	9.00	N	2½" PST	
24a				W16-7P	DOWN ARROW	30	18	3.75	N		
25	142+72		X	W11-2	PED SYMBOL	36	36	9.00	S	2½" PST	
25a				W16-7P	DOWN ARROW	30	18	3.75	S		
26	142+81			R4-7	STAY RIGHT SYMBOL	24	30	5.00	N	2½" PST	
27	144+42	X		R8-3A	NO PARKING SYMBOL	24	24	4.00	N	2½" PST	MOUNT TO LIGHT POLE
28	144+51		X	R1-1	STOP	30	30	6.25	E	2½" PST	
28a				D3-1D	CAROLINE ST	40 ~~36~~	12 ~~8~~	3.33 ~~2.00~~	S		
28b				D3-1D	MENDENHALL LOOP RD	40 ~~54~~	8	2.22 ~~3.00~~	E		
29	144+85		X	R8-3A	NO PARKING SYMBOL	24	24	4.00	S	2½" PST	
30	146+37		X	R2-1	SPEED LIMIT 40 MPH	30	36	7.50	S	2½" PST	MOUNT TO LIGHT POLE
31	147+09	X		R8-3A	NO PARKING SYMBOL	24	24	4.00	N	2½" PST	
32	148+67		X	R8-3A	NO PARKING SYMBOL	24	24	4.00	S	2½" PST	
33	149+39	X		R2-1	SPEED LIMIT 40 MPH	30	36	7.50	E	2½" PST	
34	150+75		X	R8-3A	NO PARKING SYMBOL	24	24	4.00	S	2½" PST	
35	151+96	X		R1-1	STOP	30	30	6.25	W	2½" PST	
35a				D3-1D	AUKE LAKE WAY	48 ~~42~~	12 ~~8~~	4.00 ~~2.33~~	N		
35b				D3-1D	MENDENHALL LOOP RD	48 ~~54~~	8	2.67 ~~3.00~~	W		
36	152+68		X	R1-1	STOP	30	30	6.25	E	2½" PST	
36a				D3-1D	AUKE LAKE WAY	48 ~~42~~	12 ~~8~~	4.00 ~~2.33~~	S		
36b				D3-1D	MENDENHALL LOOP RD	54	8	3.00	E		
37	152+69	X		W11-2	PED SYMBOL	36	36	9.00	N	2½" PST	
37a				W16-7P	DOWN ARROW	30	18	3.75	N		
38	152+84		X	W11-2	PED SYMBOL	36	36	9.00	S	2½" PST	
38a				W16-7P	DOWN ARROW	30	18	3.75	S		
33a	149+39	X		R8-3A	NO PARKING SYMBOL	24	24	4.00	E	2½" PST	

REMOVE EXISTING SIGNS NOT SCHEDULED TO BE REUSED AND DELIVER TO THE DOT&PF MAINTENANCE FACILITY.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE NL Date 9/18/15

PREPARED BY: USKH
BILL PADDOCK

TAB: H5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGN SUMMARY

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H5	82

PATH: I:\1289500\DWGS\CSHEETS\1289500 H05-H07.DWG

615(1) STANDARD SIGN SUMMARY

SIGN NO.	STATION	OFFSET		Code No. ASDS	Legend	SIZE (INCHES)		AREA SQ. FT	SIGN FACES	POST TYPE	REMARKS
40	117+61		X	R8-3A	NO PARKING SYMBOL	24	24	4.00	S	2½" PST	
40a				SPECIAL	BUS STOP SIGN	18	30	3.75	S		SIGN PROVIDED BY CBJ, CONTRACTOR TO INSTALL
40b				SPECIAL	NOTICE	18	18	2.25	S		
41	118+41		X	I-100	BOAT RAMP	30	30	6.25	S	2½" PST	
41a				D9-301	DIRECTIONAL ARROW	24	6	1.00	S		
42	122+27	X		R8-3A	NO PARKING SYMBOL	24	24	4.00	W	2½" PST	
~~43~~	~~124+00~~	~~X~~		~~D3-1C~~	~~ADVANCE STREET NAME AND ARROW~~				~~W~~		~~RELOCATE EXISTING~~ NOT INSTALLED
~~43a~~				~~I-5~~	~~AIRPORT SYMBOL~~				~~W~~		NOT INSTALLED
44	127+00		X	W1-2L	CURVE ARROW	30	30	6.25	E	2½" PST	
45	P.O.		X		VETERANS MEMORIAL HIGHWAY				E		RELOCATE EXISTING
~~46~~	~~143+74~~	~~X~~		~~R8-3A~~	~~NO PARKING SYMBOL~~	~~24~~	~~24~~	~~4.00~~	~~E~~	~~2½" PST~~	NOT INSTALLED
~~46a~~				~~SPECIAL~~	~~BUS STOP SIGN~~	~~18~~	~~30~~	~~3.75~~	~~E~~		~~SIGN PROVIDED BY CBJ, CONTRACTOR TO INSTALL~~
~~46b~~				~~SPECIAL~~	~~NOTICE~~	~~18~~	~~18~~	~~2.25~~	~~E~~		NOT INSTALLED
47	145+00	X		D1-3-2	DESTINATION AND 2 ARROWS	96	~~40~~ ~~54~~	~~26.67~~ ~~36.00~~	N	2-3" T	
47a				I-5	AIRPORT SYMBOL	30	30	6.25	N		
48	146+30	X		W2-6	ROUNDABOUT SYMBOL	36	36	9.00	N	2½" PST	
48a				W13-1	20 MPH	24	24	4.00	N		
49	151+24	X		R8-3A	NO PARKING SYMBOL	24	24	4.00	E	2½" PST	
49a				SPECIAL	BUS STOP SIGN	18	30	3.75	E		SIGN PROVIDED BY CBJ, CONTRACTOR TO INSTALL
								431.00			

OUTLET POST SUMMARY

POST #	STATION	OFFSET	REMARKS
1	120+29	RT	
2	120+29	LT	
3	141+91	LT	

ADJUST EXISTING JUNCTION BOX

10	ADJUST EXISTING JUNCTION BOX TO GRADE. LOCATIONS TO BE DETERMINED DURING CONSTRUCTION

LIGHT POLE SUMMARY

POLE #	STATION	OFFSET	MOUNTING HT (FT)	MASTARM (FT)	LUMINAIRE TYPE	LUMINAIRE VOLTAGE	LUMINAIRE WATTAGE	LUMINAIRE CIRCUIT	REMARKS
1	NOT USED								
2	117+33.5	30.5 LT	40	15	HPS	480	400	AB1	
3	119+04.6	27.4 RT	35	15	HPS	480	250	AB1	
4	119+47.2	47.6 LT △3	35	15	HPS	480	250	AB1	
5	121+02.9	51.2 LT	35	15	HPS	480	250	AB1	
6	121+58.9	24.2 LT	35	15	HPS	480	250	~~AB1~~ AB3	
7	123+26.9	34.5 LT	40	15	HPS	480	400	AB3	
8	121+11.3	50.7 RT	35	15	HPS	480	250	AB2	
9	119+81.5	67.1 RT	35	15	HPS	480	250	AB1	
10	142+40.0	57.0 RT	35	4	HPS	480	250	AB2	
11	142+97.2	33.9 LT △3	35	22	HPS	480	250	AB2	
12	144+42.0	28.5 LT	40	15	HPS	480	400	AB2	
13	146+37.1	28.5 RT	40	15	HPS	480	400	AB2	
14	148+66.9	28.5 RT	40	15	HPS	480	400	AB2	
15	150+74.7	30.5 RT	40	15	HPS	480	400	AB2	

JUNCTION BOX SUMMARY

JB #	STATION	OFFSET	TYPE	REMARKS
~~16~~	11+16	RT ~~NOT USED~~	1A	FOR EXISTING LIGHT ON HARBOR DRIVE
2	117+27.5	LT	1A	
2A	118+24.4	LT	1A	
3	119+09.4	RT	1A	
4	119+47.6	LT	1A	
5	120+99.0	LT	1A	
6	121+54.2	LT	~~1A~~ II	
7	123+21.6	LT	1A	
△1 7A	124+51.8	~~RT~~ LT	1A	
8	121+07.2	RT	II	
8A	120+58.6	RT	~~II~~ 1A △1	
9	119+84.8	RT	~~II~~ 1A	
10	142+48.6	RT	1A	
11	142+91.3	LT	1A	
12	144+36.1	LT	1A	
13	146+42.7	RT	1A	
12A	146+46.2	LT	1A	
14	148+72.9	RT	1A	
15	150+81.1	RT	1A	

NOTES:

1. PROVIDE LUMINAIRES WITH FULL-CUTOFF OPTICS AND TYPE II LIGHT DISTRIBUTION.
2. OUTLET POSTS ARE SUBSIDIARY TO PAY ITEM 660(3)
3. △1 PROVIDE COBRA HEAD FIXTURES THAT WILL PROVIDE THE FOLLOWING LIGHT LEVELS AT THE WATTAGES AND POLE CONFIGURATIONS LISTED IN THE LIGHT POLE SUMMARY:
   GLACIER HIGHWAY - 1.2 AVERAGE FOOT-CANDLES, 3:1 UNIFORMITY, 0.3 VEILING LUMINANCE;
   BACK LOOP - 0.8 AVERAGE FOOT-CANDLES, 4:1 UNIFORMITY, 0.4 VEILING LUMINANCE.
4. △2 PROVIDE 3 ADDITIONAL 250W, 480V LUMINAIRES FOR RETROFITING LIGHT POLES ALONG HARBOR DRIVE.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:H:\1289500\DWGS\CIS\HEETS\1289500 H05-H07.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: H6

ADDENDUM NUMBER
2
ATTACHMENT NUMBER
3

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
△1	4/23/13	ADDENDUM 2
△2	4/26/13	ADDENDUM 2
△3	9/13/13	ADJUSTED LOCATIONS
△4	9/20/13	ADDED J-BOX

CHECKED BY: L. GALBRAITH

STATE OF ALASKA 49 TH Leon R.Galbraith CE-12583 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

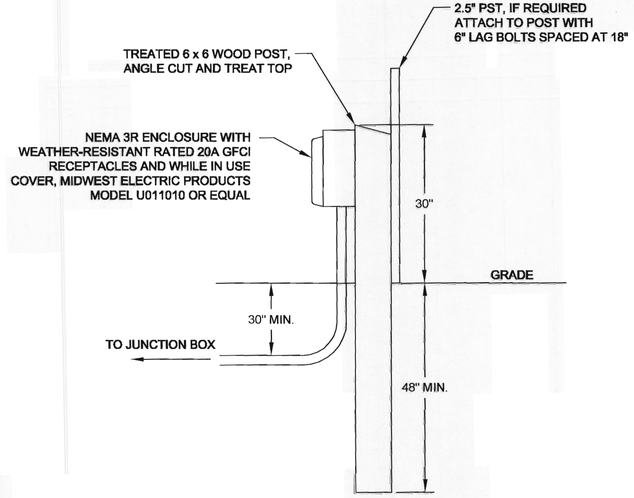
DRAWN BY: M. HIDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SIGN, ILLUMINATION, JUNCTION BOX, AND OUTLET POST SUMMARIES

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
H6	82



OUTLET POST DETAIL

SUMMARY OF NEW LOAD CENTER: A

LOAD CENTER TYPE 1

LOAD CENTER: LOCATION DATA: BACK LOOP RD STA 142+97, 43' LT
POWER SOURCE: UTILITY POLE ADJACENT LOAD CENTER
PHOTOELECTRIC CONTROL: YES

SERVICE VOLTAGE 1 PHASE, 3-WIRE, 480/240 VOLTS, 60 Hz.

INTERRUPTING CAPACITY OF CIRCUIT BREAKERS-SERIES RATED 10,000 AIC
PROVIDE METER SOCKET? YES SERVICE AMPS 100A

		SERVES:
MAIN BREAKER A:	480 VOLT, 2 POLE, 30 AMPERES	TRANSFORMER
MAIN BREAKER B:	480 VOLT, 2 POLE, 70 AMPERES	CONTACTOR
TRANSFOMRER, 10 KVA	480 VOLT PRIMARY, 240 VOLT SECONDARY	PANEL BKR A
PANEL BREAKER A:	240 VOLT, 2 POLE, 50 AMPERES	PANEL A
CONTACTOR:	600 VOLT, 2 POLE, 100 AMPERES	PANEL B

LOAD PANEL A SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
1	PHOTO ELECTRIC CONTROL	0.1	15A	2
2	EX. SCHOOL ZONE BEACON	0.2	20A	1
3	ROUNDABOUT HOLIDAY OUTLETS	1.8	20A	1
4	SPARE		20A	2
	PANEL LOAD:	2.1 KVA		

LOAD PANEL B SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
1	GLACIER HWY SOUTH LTG & FUTURE	5.1	20A	2
2	BACK LOOP LTG	2.7	20A	2
3	GLACIER HWY NORTH LTG & FUTURE	4.6	20A	2
4	SPARE		20A	2
	PANEL LOAD:	12.4 KVA		
	TOTAL DEMAND LOAD:	18.1 KVA / 37.8 A		

NOTE:

1. STATION AND OFFSET INFORMATION GIVEN TO CENTER OF LOAD CENTER.
2. UTILITY COMPANY WILL PROVIDE POWER TO LOAD CENTER.

Record Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE [signature] Date 4/26/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: H7

ADDENDUM NUMBER
2

ATTACHMENT NUMBER
4

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
2	4/26/13	ADDENDUM 2

CHECKED BY: L. SCHNELLER

STATE OF ALASKA
49 TH
LUCAS SCHNELLER
EE-11399
4/26/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

LOAD CENTER SUMMARY AND DETAILS

PROJECT DESIGNATION
69003

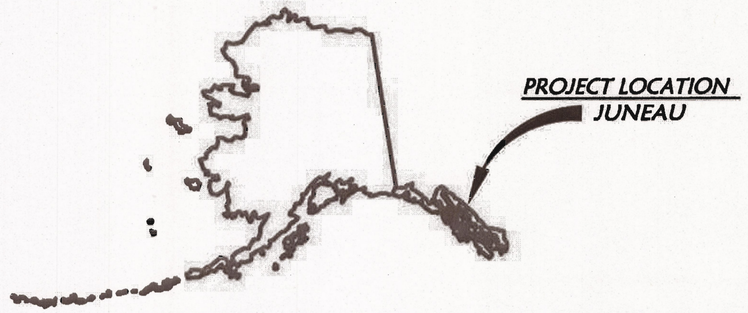
STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
H7	82

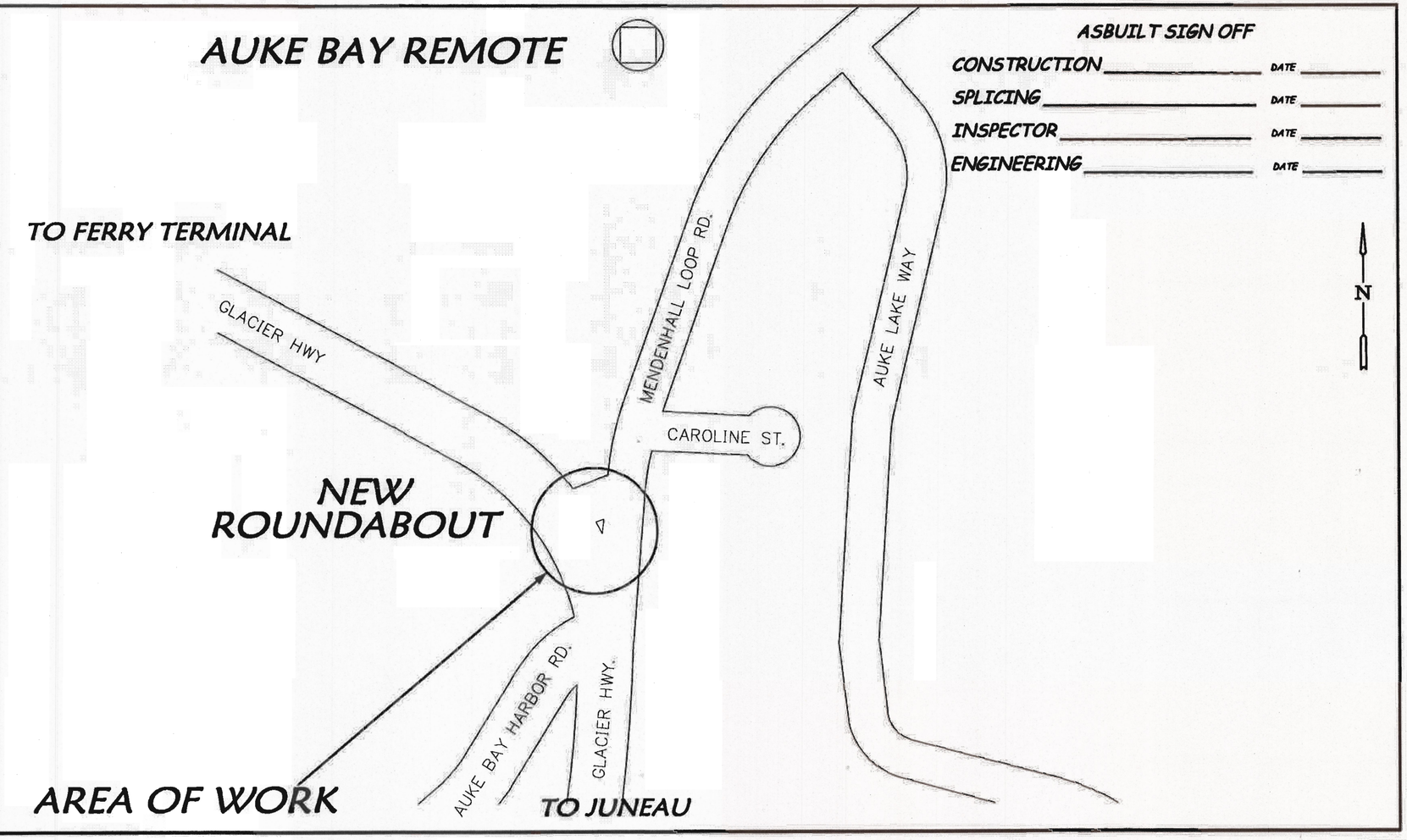
PATH: H:\1289500\DWGS\C\SHEETS\1289500 H05-H07.DWG

W.O. 012-9011
STLG RELO DOTPF DEHARTS RNDABT

Known utility lines are shown in approximate locations only. All exact locations to be determined by the contractor during construction.



AUKE BAY REMOTE



ASBUILT SIGN OFF

CONSTRUCTION _____ DATE _____

SPLICING _____ DATE _____

INSPECTOR _____ DATE _____

ENGINEERING _____ DATE _____

03/06/14 Activity Summary WBS=012-9011

Wrkgrp	Activity	QTY	ACTL
LINE	BG9-25	1	
LINE	BM2	1	
LINE	CAD5	1	
LINE	PE1-3G	2	
LINE	PM11	2	
LINE	PUMP MH	1	
LINE	UD1X2-4"P	130	
LINE	UD2X2-4"PVC	70	
LINE	UF1200-24	430	
LINE	UF25X24	150	
LINE	UF400-24 STUB	25	
LINE	UF600X24	630	
LINE	UF900X24	630	
LINE	U0144SM	2023	
LINE	XX UF1500X24 (82)	334	
LINE	XX UF600X24 (84)	610	
LINE	XX UF900X24 (82)	276	
LINE	XX U048SM(02)	1929	
LINE	XXBD	1	
SPLICE	ACCEPTANCE TEST	144	
SPLICE	CW200-24 STUB	50	
SPLICE	CW400-24 STUB	50	
SPLICE	END PLATE (3PC)	1	
SPLICE	FO 144 TAIL	90	
SPLICE	FPP-144-LC-R(23)	1	
SPLICE	HAC(100-24)	1	
SPLICE	HAC(1200-24)	1	
SPLICE	HAC(200-24)	1	
SPLICE	HAC(400-24)	1	
SPLICE	HC-3	3875	
SPLICE	HC3	1100	
SPLICE	HO1	144	
SPLICE	HO1	48	
SPLICE	HU(9.5X24)	1	
SPLICE	HUP(100-24)	1	
SPLICE	HUP(1500-24)	1	
SPLICE	HUP(600-24)	1	
SPLICE	HUP(600X24)	1	
SPLICE	HUP(900X24)	1	
SPLICE	HUPO 144	1	
SPLICE	NID(50)3G	1	
SPLICE	PULL STRING	500	
SPLICE	PUMP MH	1	
SPLICE	PUMP MH	1	
SPLICE	UD(3-1.25)V	600	
SPLICE	UD1X1-2"PVC	346	
SPLICE	UD3X2-4"P	284	
SPLICE	UD5X2-4"P	288	
SPLICE	UF100X24H	430	
SPLICE	UF50X24	500	
SPLICE	UM(48X96X60)	1	
SPLICE	WUD1X1-2"PVC	20	
SPLICE	WUD2X2-4P	20	
SPLICE	XXHC-3	25	
SPLICE	XXHUP(1500-24)	1	
SPLICE	XXNID50	1	
SPLICE	XXUD1X1-2"PVC	185	
SPLICE	XXUF100X24H(85)	334	
SPLICE	XXUF50X24(82)	95	
SPLICE	XXUF50X24(97)	300	

INDEX

SHEET NO.	DESCRIPTION	LATEST ISSUE
V1	TITLE SHEET, VACINITY MAPS, UNIT SUMMARY, INDEX	1
1 thru 4	PLAN & PLANT SHEETS (CONSTRUCTON DRAWINGS)	1
D1 thru D8	DETAIL SHEETS (MANHOLE & C.O. DRAWINGS)	2

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

Calaska COMMUNICATIONS.

TOWNSHIP	RANGE	SECTION	OA#	EFRAP#
40S	65E	23		

ASSOCIATED WORK ORDERS

SOURCE MAPS: 2498-2395-0; 2496.5-2393-0; 2498-2394-0

REVISION NUMBER-DATE-INITIALS: REV. REV. REV.

EXCHANGE: STLG 8904 S#

CAD#: 129011V1

ENGR/EXT: M. Williams x1521

DWN: M. Stanley x5589 DATE: 10-08-12

HELD ORDER: YES NO ☐ ☒ | PERMITS: YES NO ☐ ☒ | CUTS REQ: YES NO ☒ ☐ | PRESSURE: YES NO ☐ ☒

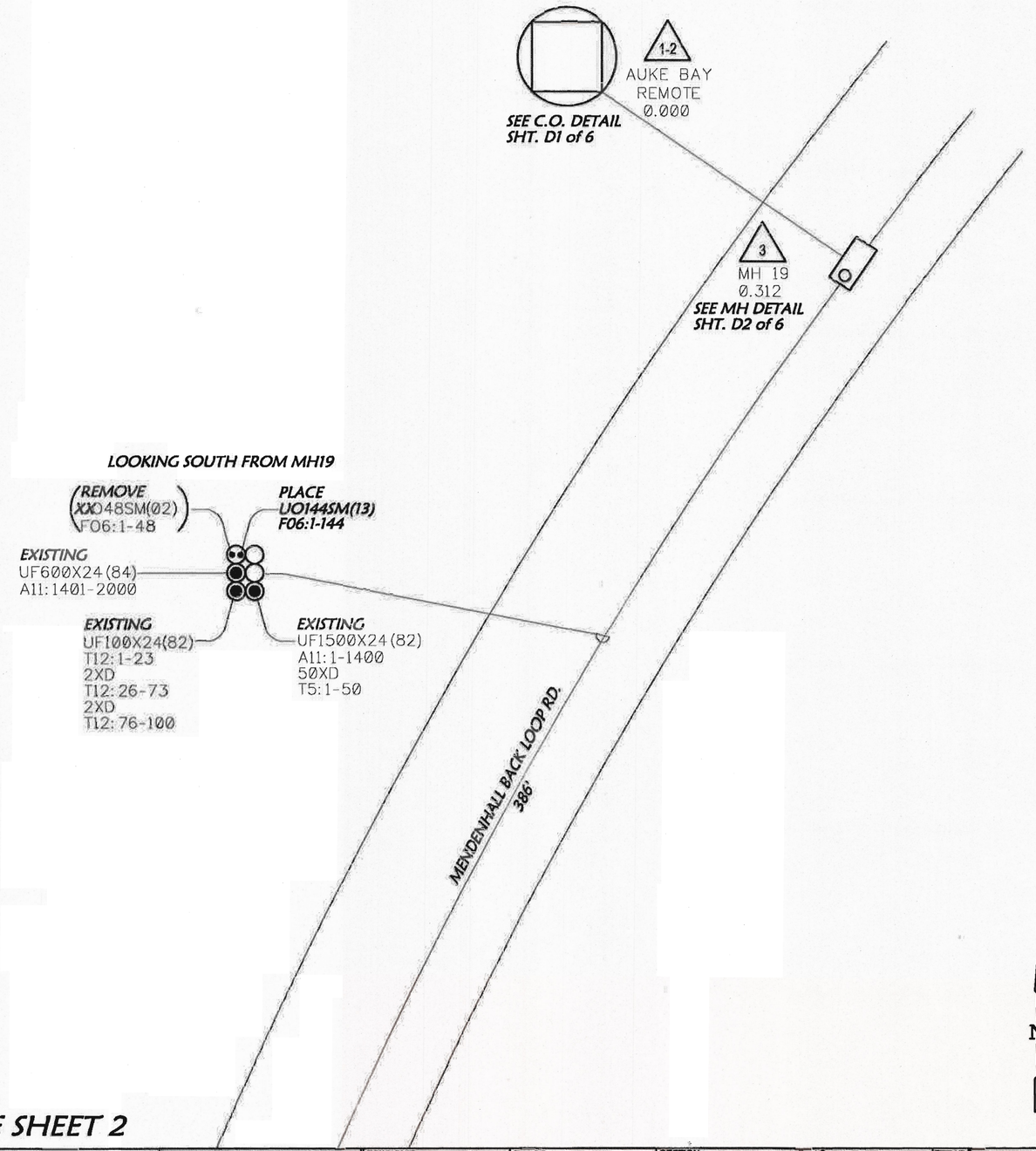
TITLE: STLG RELO DOTPF DEHARTS RNDABT

BOROUGH/CNTY: CBJ

SCALE: APR'D: ISSUED:

WO# (2012) 012-9011

SH. V1 OF V1 SHTS.



SEE SHEET 2

03/06/14 Wrkgrp	Activity Summary Activity	Dwg=12901101 QTY	ACTL

NO UNITS OF WORK THIS SHEET
REFERENCE ONLY

SEE DETAIL SHEETS D1 & D2
FOR UNITS

REEL #	Pole/Ped.	SEQ.	REEL #	Pole/Ped.	SEQ.
	fr. C.O.			fr.	
	to MH19			to	
UNIT UO144		'	UNIT		'
	fr.			fr.	
	to			to	
UNIT		'	UNIT		'
	fr.			fr.	
	to			to	
UNIT		'	UNIT		'

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

Alaska COMMUNICATIONS.

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#
40S	65E	23		

ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE	S#
	2498-2395-0	REV. 10/11/13 H.A.	8904 STLG	
		REV. 02/25/14 STOSH	CAD# 12901101	
		REV.	ENGR/EXT: MONTY WILLIAMS 564-1521	
			DWN: M. STANLEY X5589 DATE: 02-26-2014	

HELD ORDER: YES NO	PERMITS: YES NO	CUTS REQ: YES NO	PRESSURE: YES NO
☐ ☒	☐ ☒	☒ ☐	☐ ☒

TITLE: STLG
RELO DOTPF DEHARTS RNDABT

WO# (2012)
012-9011

BOROUGH/CNTY CBJ

SCALE: APR'D: ISSUED:

SH. 1 OF 4 SHTS.

LOOKING SOUTH FROM MH19

REMOVE
XXUO48SM(02)
F06:1-48

PLACE
UO144SM(13)
F06:1-144

EXISTING
UF600X24(84)
A11:1401-2000

EXISTING
UF100X24(82)
T12:1-23
2XD
T12:26-73
2XD
T12:76-100

EXISTING
UF1500X24(82)
A11:1-1400
50XD
T5:1-50

SEE SHEET 1

4-6
MH 21
0.698

SEE MH DETAIL
SHT. D3 of 6

SOA STA 146+00

SOA STA 145+65

SOA STA 145+50

SOA STA 145+00

LOOKING SOUTH FROM MH21

UO144SM(13)
F06:1-144

EXISTING
200'
UD5X2-4"(13)

UF1200X24(13)
A11:801-1500
A11:1751-1850
250XD
11/2:51-75
125XD

UF600X24(13)
100XD
A11:1501-1750
100XD
A11:1851-2000

UF100X24(13)
T12:1-23
2XD
T12:26-73
2XD
T12:76-100

UF900X24(13)
A11:1-800
50XD
11/2:51-75
25XD

MENDENHALL BACK LOOP RD.

SOA STA. 144+20.42 (BACK LOOP ROAD)
=SOA STA. 60+00.00 (CAROLINE STREET)

T.H.R.E.A.
GARAGE

SEE SHEET 3

CAROLINE ST.
60+50

61+00

N

03/06/14 Activity Summary Dwg=12901102

Wrkgrp	Activity	QTY	ACTL

NO UNITS OF WORK THIS SHEET
REFERENCE ONLY
SEE DETAIL SHEET D3 FOR UNITS

REEL #	Pole/Ped.	SEQ.	REEL #	Pole/Ped.	SEQ.
	fr. MH19			fr.	
	to MH21			to	
UNIT UO144		'	UNIT		'
	fr.			fr.	
	to			to	
UNIT		'	UNIT		'
	fr.			fr.	
	to			to	
UNIT		'	UNIT		'

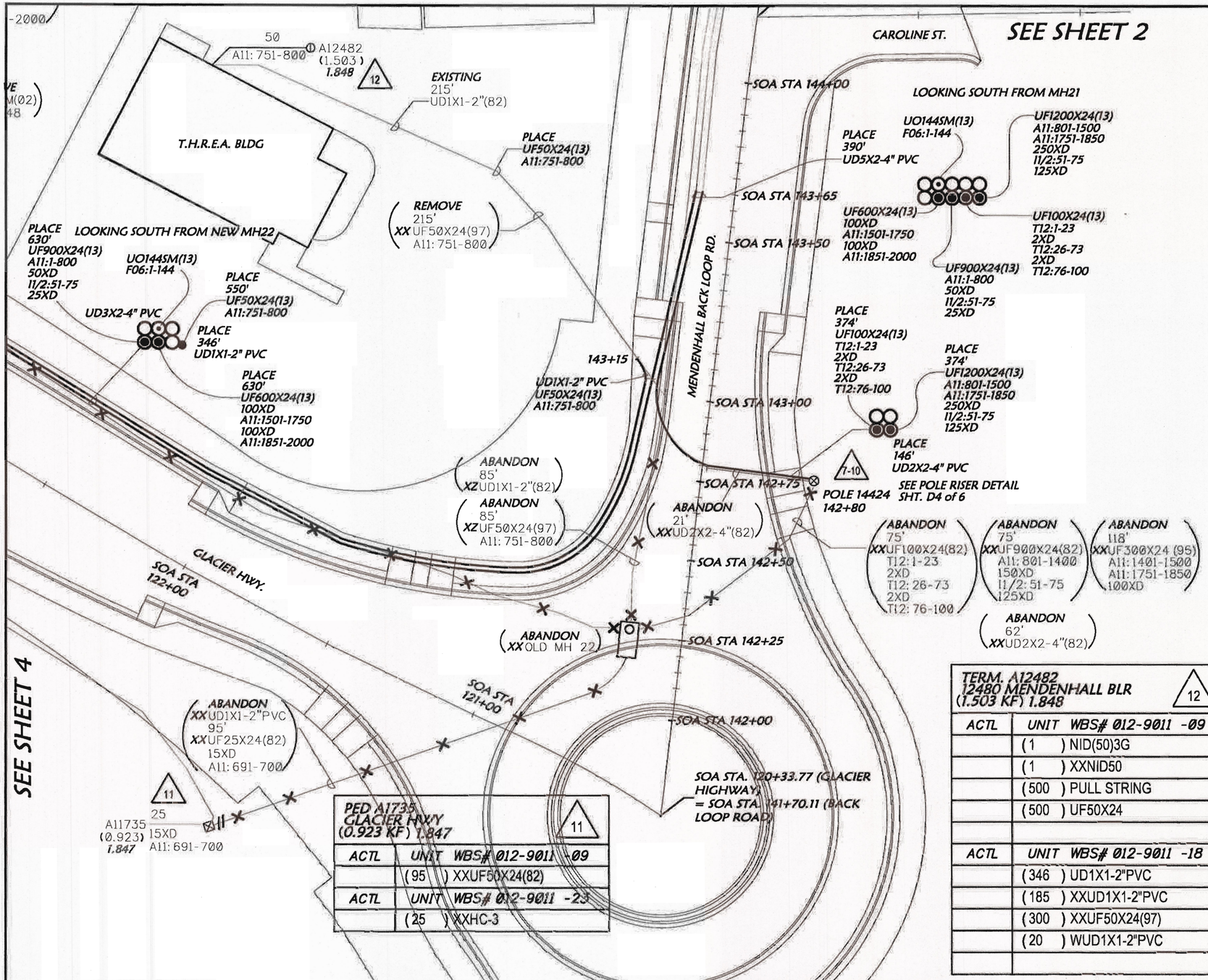
CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

alaska COMMUNICATIONS.

TOWNSHIP 40S	RANGE 65E	SECTION 23	DA#	EFRAP#	HELD ORDER: YES NO ☒
ASSOCIATED WORK ORDERS	SOURCE MAPS 2498-2395-0	REVISION NUMBER–DATE–INITIALS	EXCHANGE 8904 STLG	S#	PERMITS: YES ☒ NO
		REV. 10/11/13 H.A.	CAD# 12901102		CUTS REQ: YES ☒ NO
		REV. 02/25/14 STOSH	ENGR/EXT: MONTY WILLIAMS 564-1121		PRESSURE: YES NO ☒
		REV.	DWN: M. STANLEY X5589 DATE: 02-26-2014		TITLE: STLG RELO DOTPF DEHARTS RNDABT
					BOR: DUGH/CNTY: CBJ
					SCALE: APR'D: ISSUED:

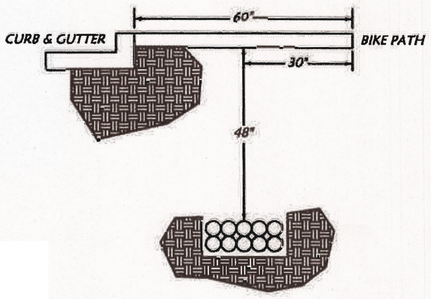
WO# (2012) 012-9011

SH. 2 OF 4 SHTS



03/06/14 Activity Summary Dwg=12901103

Wrkgrp	Activity	QTY	ACTL
SPLICE	NID(50)3G	1	
SPLICE	PULL STRING	500	
SPLICE	UD1X1-2"PVC	346	
SPLICE	UF50X24	500	
SPLICE	WUD1X1-2"PVC	20	
SPLICE	XXHC-3	25	
SPLICE	XXNID50	1	
SPLICE	XXUD1X1-2"PVC	185	
SPLICE	XXUF50X24(82)	95	
SPLICE	XXUF50X24(97)	300	



10 WAY DUCT DETAIL

SEE DETAIL SHEET D4 FOR ADDITIONAL UNITS

REEL #	Pole/Ped.	SEQ.	REEL #	Pole/Ped.	SEQ.
	fr. MH22			fr.	
	to A12482			to	
UNIT UF50X24		'	UNIT		'
	fr.			fr.	
	to			to	
UNIT		'	UNIT		'
	fr.			fr.	
	to			to	
UNIT		'	UNIT		'

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

Alaska COMMUNICATIONS

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#
40S	65E	23		

ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS
	2498–2395–0	REV. 10/11/13 H.A.
		REV. 02/25/14 STOSH
		REV.

EXCHANGE 8904 STLG
S#
CAD# 12901103
ENGR/EXT: MONTY WILLIAMS 564–1521
DWN: M. STANLEY X5589 DATE: 02–26–2014

HELD ORDER: YES NO ☒ | PERMITS: YES NO ☒ | CUTS REQ: YES ☒ NO | PRESSURE: YES NO ☒

TITLE: STLG
RELO DOTPF DEHARTS RNDABT

BOROUGH/CNTY CBJ

WO# (2012)
012–9011

SCALE: APR'D: ISSUED:

SH. 3 OF 4 SHTS.

SQUIRES REST BLDG

UAS BOOK STORE

SEE MH DETAIL SHT. D6 of 6

17

MH 23
1.628

SOA STA 126+50

LOOKING NORTH FROM NEW MH22

REMOVE
XX UO48SM(02)
F06:1-48

PLACE
UO144SM(13)
F06:1-144

EXISTING
UF600X24(84)
100XD
A11:1501-1750
100XD
A11:1851-2000

EXISTING
UF900X24(82)
A11:1-800
50XD
I1/2:51-75
25XD

330'

GLACIER HWY.

SOA STA 125+00

PLACE
130'
UD1X2-4" PVC

PLACE
150'
UF25X24(13)
15XD
A11:691-700

SOA STA 124+00

SOA STA 123+75

SOA STA 123+50

SOA STA 123+25

SOA STA 123+00

A11755
(1.322 KF) 1.448

25
15XD
A11: 691-700

16

EXISTING
UD1X1-2"PVC
399'
UF25X24(82)
15XD
A11: 691-700

REMOVE
290'
XX UF900X24(82)
A11:1-800
50XD
I1/2: 51-75
25XD

REMOVE
290'
XX UF600X24(84)
100XD
A11:1501-1750
100XD
A11:1851-2000

REMOVE
270'
XX UD2X2-4" (82)
267'
XX UD1X1-2"(82)

REMOVE
XX UO48SM(02)
F06:1-48

13-15

SEE MH DETAIL SHT. D5 of 6
NEW MH-22
1.298

SEE SHEET 3

50
A11: 751-800

T.H.R.E.A. BLDG

PLACE
630'
UF900X24(13)
A11:1-800
50XD
I1/2:51-75
25XD

LOOKING SOUTH FROM NEW MH22

UO144SM(13)
F06:1-144

UD3X2-4" PVC

PLACE
550'
UF50X24(13)
A11:751-800

PLACE
346'
UD1X1-2" PVC

PLACE
630'
UF600X24(13)
100XD
A11:1501-1750
100XD
A11:1951-2000

GLACIER HWY.

SOA STA 122+00

N

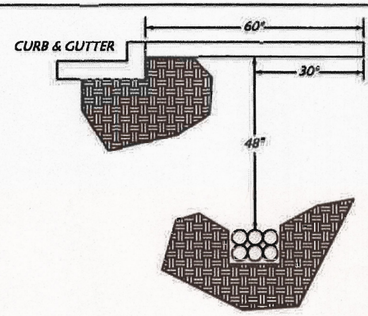
PED A1755
11755 GLACIER HWY.
(1.322 KF) 1.448

16

ACTL	UNIT WBS# 012-9011 -23
	(25) HC-3
ACTL	UNIT WBS# 012-9011 -18
	(130) UD1X2-4"P
ACTL	UNIT WBS# 012-9011 -09
	(150) UF25X24
	(1) CAD5
	(1) BM2
	(1) BG9-25
	(1) XXBD

03/06/14 Activity Summary Dwg=12901104

Wrkgrp	Activity	QTY	ACTL
LINE	BG9-25	1	
LINE	BM2	1	
LINE	CAD5	1	
LINE	UD1X2-4"P	130	
LINE	UF25X24	150	
LINE	XXBD	1	
SPLICE	HC-3	25	



6 WAY DUCT DETAIL

SEE DETAIL SHEETS D5 & D6 FOR ADDITIONAL UNITS

REEL #	Pole/Ped.	SEQ.	REEL #	Pole/Ped.	SEQ.
	fr. MH22			fr. MH21	
	to MH23			to MH22	
UNIT UO144		'	UNIT UF600X24		'
	fr. MH22			fr. MH21	
	to A11755			to MH22	
UNIT UF25X24		'	UNIT UF900X24		'
	fr.			fr. MH21	
	to			to MH22	
UNIT		'	UNIT UO144SM		'

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

alaska COMMUNICATIONS.

TOWNSHIP	RANGE	SECTION	DA#	EFRAP#
40S	65E	23		

ASSOCIATED WORK ORDERS	SOURCE MAPS	REVISION NUMBER–DATE–INITIALS	EXCHANGE	S#
	2498-2395-0	REV. 10/11/13 H.A.	8904 STLG	
		REV. 02/25/14 STOSH	CAD# 12901104	
		REV.	ENGR/EXT: MONTY WILLIAMS 564-1521	
			DWN: M. STANLEY X5589 DATE: 02-26-2014	

HELD ORDER: YES NO ☒ | PERMITS: YES NO ☒ | CUTS REQ: YES ☒ NO | PRESSURE: YES NO ☒

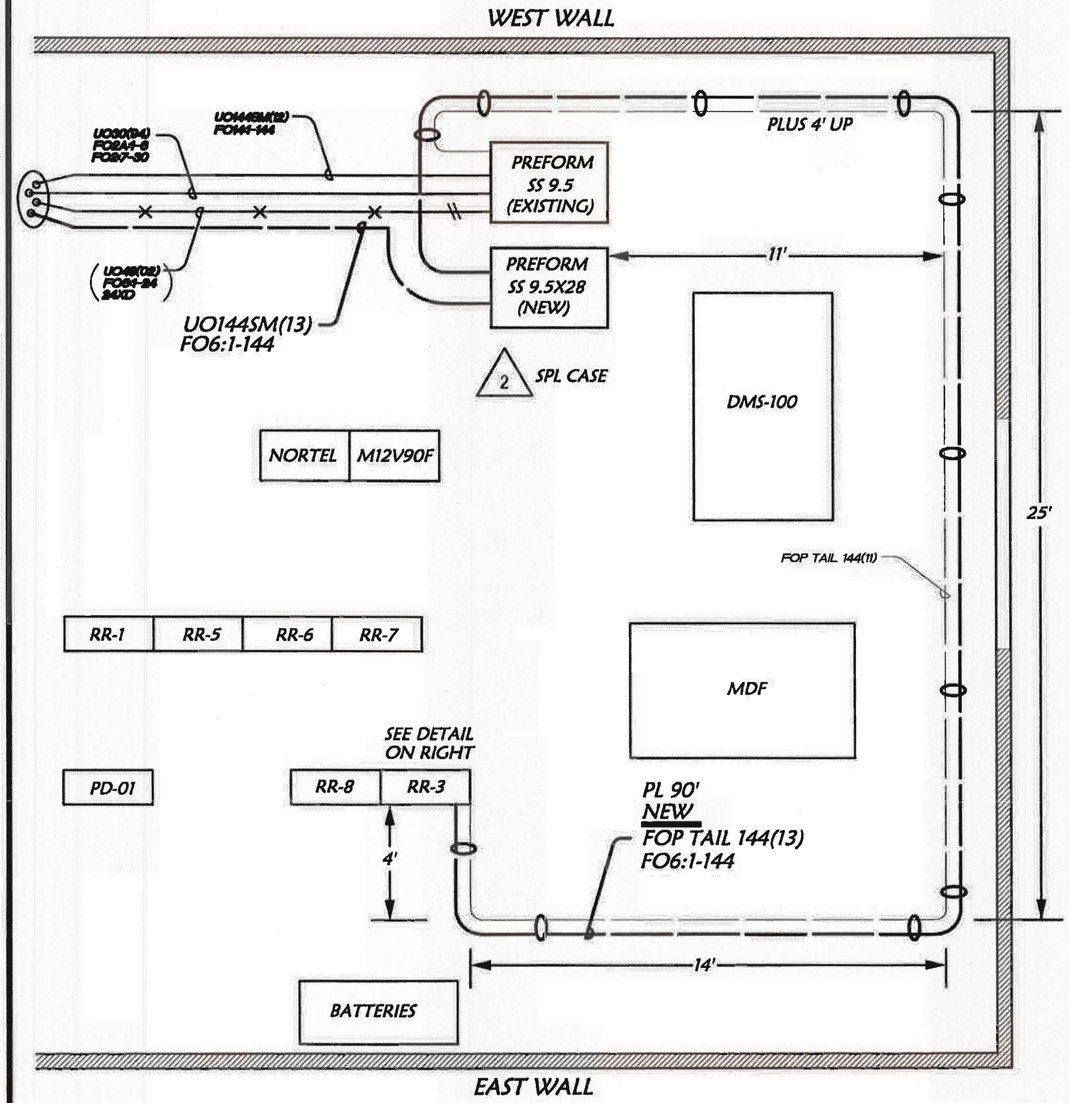
TITLE: STLG
RELO DOTPF DEHARTS RNDABT

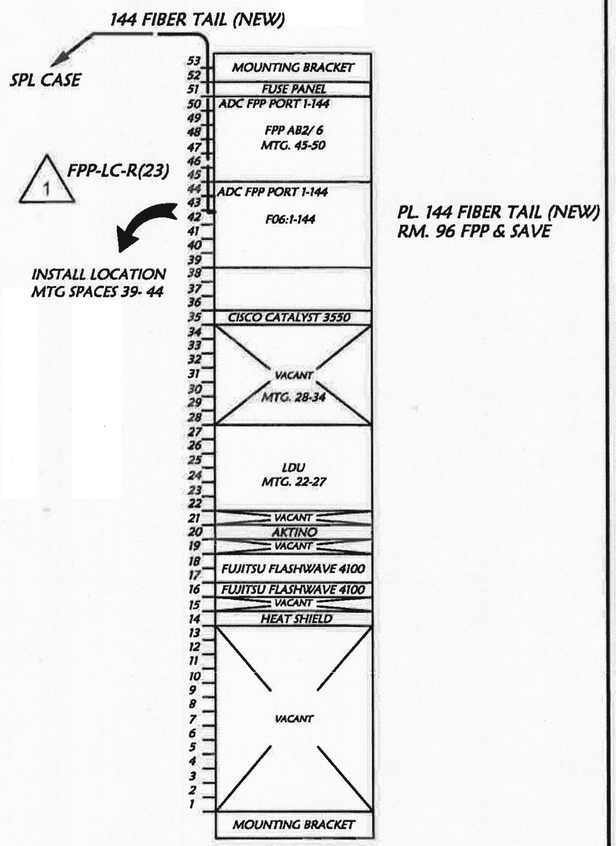
WO# (2012)
012-9011

BOROUGH/CNTY CBJ

SCALE: APR'D: ISSUED:

SH. 4 OF 4 SHTS.





AUKE BAY
REMOTE

03/06/14 Activity Summary Dwg=129011D1			
Wrkgrp	Activity	QTY	ACTL
SPLICE	ACCEPTANCE TEST	144	
SPLICE	FO 144 TAIL	90	
SPLICE	FPP-144-LC-R(23)	1	
SPLICE	HO1	144	
SPLICE	HU(9.5X24)	1	

AUKE BAY
MENDENHALL
0.000 KF CO PLACEMENT (1)

ACTL	UNIT WBS# 012-9011 -23
	(1) FPP-144-LC-R(23)
	(90) FO 144 TAIL
	(144) ACCEPTANCE TEST

AUKE BAY
MENDENHALL
0.000 KF SPLICE CLOSURE (2)

ACTL	UNIT WBS# 012- 9011-23
	(144) HO1
	(1) HU(9.5X24)

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

ACS Alaska Communications Systems

CUTWRITER – PHONE#	TRANS ZONE	TAX DIST 010-004	TOWNSHIP 40S	RANGE 65E	SECTION 23	HELD ORDER: Y	PERMITS: N	CUTS REQ: Y	PRESSURE: M

ASSOCIATED WORK ORDERS	SOURCE PRM MAPS	REVISION DATE–INITIALS
	2498-2396-1	REV.1
		REV.2
		REV.3

EXCHANGE 8904
CAD# 129011D1
ENGR/EXT: M. WILLIAMS 564-1521
DWN: M. STANLEY DATE: 2/28/14

TITLE: STLG
RELO DOTPF DEHARTS RNDABT
BOROUGH/CNTY CBJ
SCALE: APR'D: ISSUED:

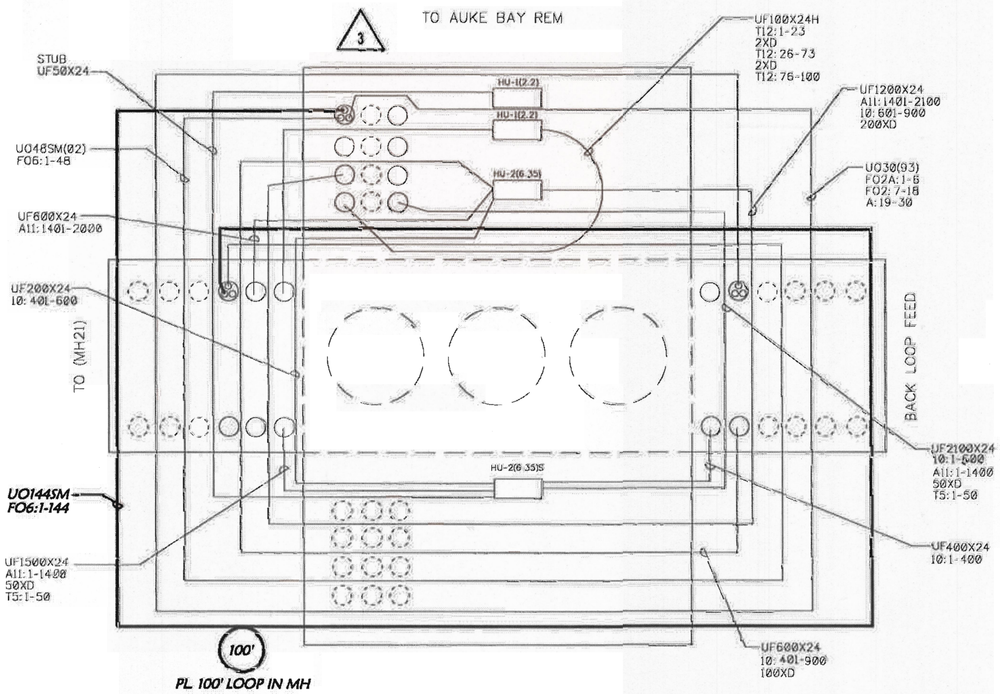
WO# (2012)
012-9011
SH. D1 OF D6 SHTS.

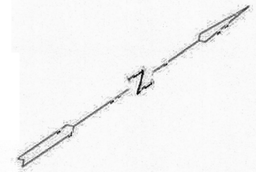
12414 MENDENHALL LP. RD. BACK LOOP RD 0.312 ABR ③	
ACTL	UNIT WBS# 012-9011 -09
	(1) PUMP MH

MANHOLE MH19

MANHOLE NO. (MH19) 231680 LENGTH _____ DEPTH _____

TYPE 5106TCA WIDTH _____ COVER _____





03/06/14	Activity Summary	Dwg=129011D2	
Wrkgrp Activity		QTY	ACTL
LINE	PUMP MH	1	

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

Alaska COMMUNICATIONS

TOWNSHIP 40S	RANGE 65E	SECTION 23	DA#	EFRAP#	HELD ORDER: YES NO ☒	PERMITS: YES NO ☒	CUTS REQ: YES NO ☒	PRESSURE: YES NO ☒
ASSOCIATED WORK ORDERS	SOURCE MAPS 2498-2395-0	REVISION NUMBER--DATE--INITIALS	EXCHANGE 8904 STLG	S#	TITLE: STLG RELO DOTPF DEHARTS RNDABT			WO# (2012) 012-9011
		REV.	CAD# 129011D2					
		REV.	ENGR/EXT: MONTY WILLIAMS 564-1521		BOROUGH/CITY: CBJ			
		REV.	DWN: R. HORNER DATE: 2/28/14		SCALE: NTS APR'D: ISSUED:			SH. D2 OF D6 SHTS.

MH 21 12450 MENDENHALL BLR 0.698 A11:	4
ACTL	UNIT WBS# 012-9011 -23
	(1) HUP(600-24)
	(600) HC-3
	(25) UF400-24 STUB

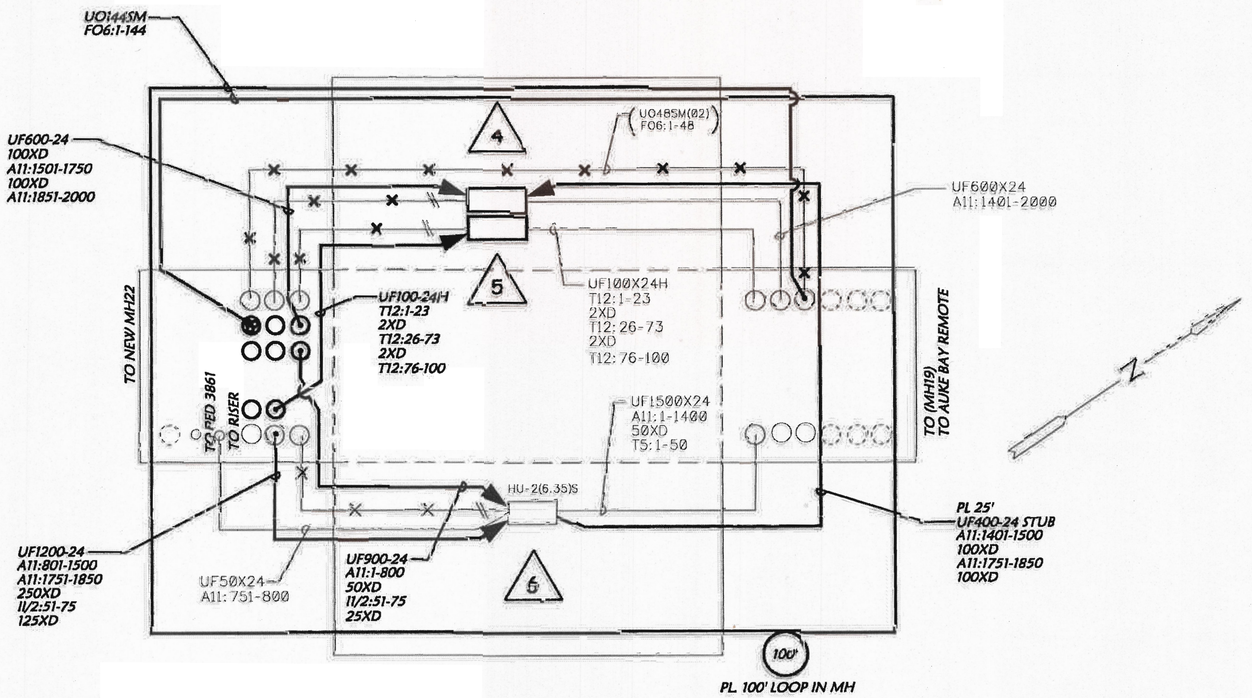
MH 21 12450 MENDENHALL BLR 0.698 A11:	5
ACTL	UNIT WBS# 012-9011 -23
	(1) HUP(100-24)
	(100) HC-3
	(1) PUMP MH

MH 21 MENDENHALL BLR 0.698 A11:	6
ACTL	UNIT WBS# 012-9011 -23
	(1) HUP(1500-24)
	(1650) HC-3
	(1) XXHUP(1500-24)

MANHOLE MH21

MANHOLE NO. (MH21) 231580 LENGTH 8'-4" ID DEPTH 6'-2" ID

TYPE 4484TA WIDTH 4'-4" ID COVER 42" DIA



SEE MAP 2498-2395-0

03/06/14 Activity Summary Dwg=12901103			
Workgrp	Activity	QTY	ACTL
LINE	UF400-24 STUB	25	
SPLICE	HC-3	2350	
SPLICE	HUP(100-24)	1	
SPLICE	HUP(1500-24)	1	
SPLICE	HUP(600-24)	1	
SPLICE	PUMP MH	1	
SPLICE	XXHUP(1500-24)	1	

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

Alaska COMMUNICATIONS.

TOWNSHIP	RANGE	SECTION
40S	65E	23

ASSOCIATED WORK ORDERS

SOURCE MAPS: 2498-2395-0

REVISION NUMBER–DATE–INITIALS
REV.
REV.
REV.

DA#
EFRAP#
EXCHANGE 8904 STLG
ST
CAD# 12901103
ENGR/EXT: MONTY WILLIAMS 564-1521
DWN: R. HORNER DATE: 2/28/14

HELD ORDER: YES NO ☒ | PERMITS: YES NO ☒ | CUTS REQ: YES NO ☒ | PRESSURE: YES NO ☒

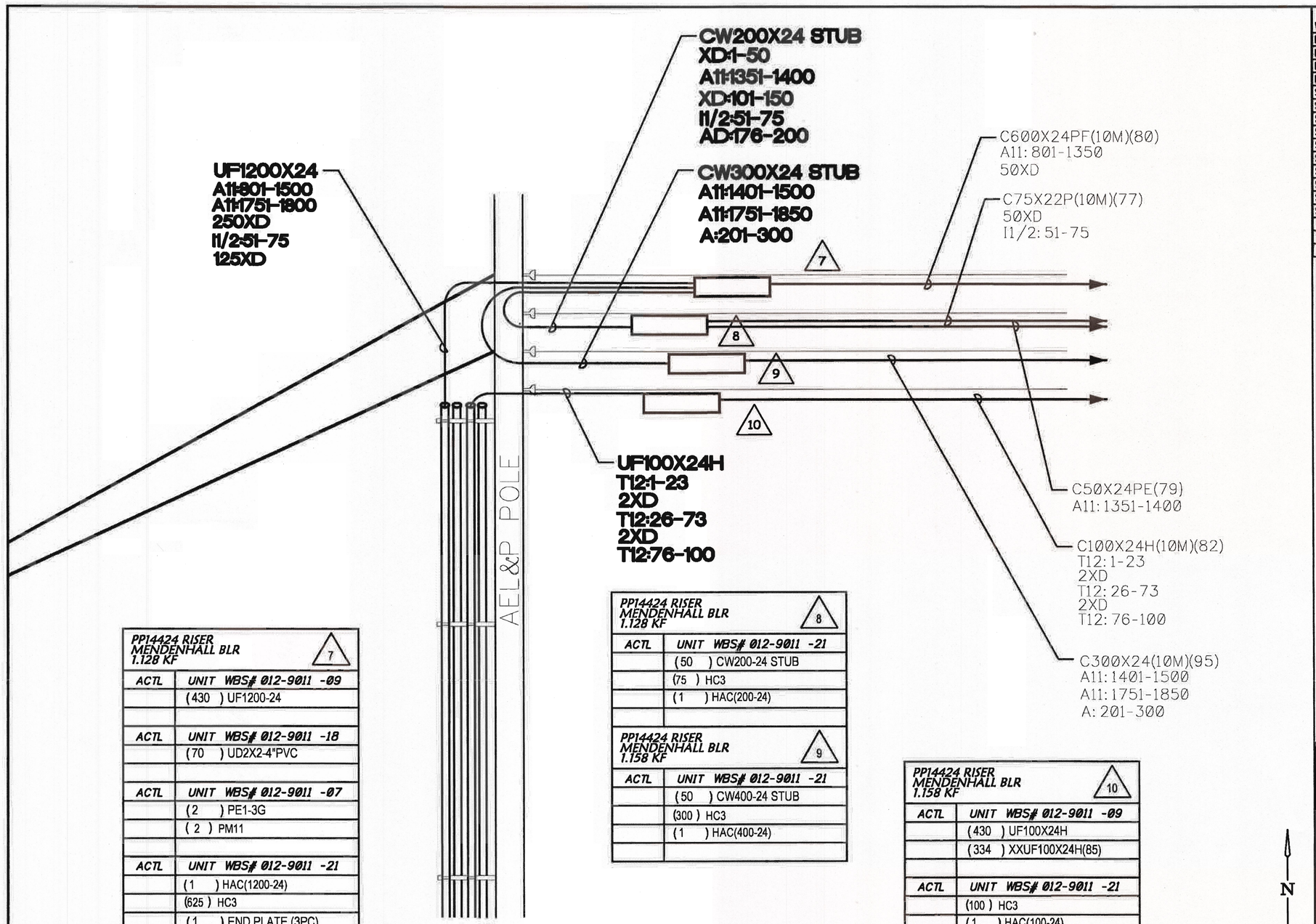
TITLE: STLG
RELO DOTPF DEHARTS RNDABT

BRNCH/CNTY CBJ

SCALE: NTS APR'D: ISSUED:

WO# (2012)
012-9011

SH. D3 OF D6 SHTS



03/06/14 Activity Summary Dwg=129011D4			
Wrkgrp	Activity	QTY	ACTL
LINE	PE1-3G	2	
LINE	PM11	2	
LINE	UD2X2-4"PVC	70	
LINE	UF1200-24	430	
SPLICE	CW200-24 STUB	50	
SPLICE	CW400-24 STUB	50	
SPLICE	END PLATE (3PC)	1	
SPLICE	HAC(100-24)	1	
SPLICE	HAC(1200-24)	1	
SPLICE	HAC(200-24)	1	
SPLICE	HAC(400-24)	1	
SPLICE	HC3	1100	
SPLICE	UF100X24H	430	
SPLICE	XXUF100X24H(85)	334	

PP14424 RISER
MENDENHALL BLR
1.128 KF — 7

ACTL	UNIT WBS# 012-9011 -09
	(430) UF1200-24
ACTL	**UNIT WBS# 012-9011 -18**
	(70) UD2X2-4"PVC
ACTL	**UNIT WBS# 012-9011 -07**
	(2) PE1-3G
	(2) PM11
ACTL	**UNIT WBS# 012-9011 -21**
	(1) HAC(1200-24)
	(625) HC3
	(1) END PLATE (3PC)

PP14424 RISER
MENDENHALL BLR
1.128 KF — 8

ACTL	UNIT WBS# 012-9011 -21
	(50) CW200-24 STUB
	(75) HC3
	(1) HAC(200-24)

PP14424 RISER
MENDENHALL BLR
1.158 KF — 9

ACTL	UNIT WBS# 012-9011 -21
	(50) CW400-24 STUB
	(300) HC3
	(1) HAC(400-24)

PP14424 RISER
MENDENHALL BLR
1.158 KF — 10

ACTL	UNIT WBS# 012-9011 -09
	(430) UF100X24H
	(334) XXUF100X24H(85)
ACTL	**UNIT WBS# 012-9011 -21**
	(100) HC3
	(1) HAC(100-24)

N

REEL #	Pole/Ped.	SEQ.	REEL #	Pole/Ped.	SEQ.
	fr. MH22			fr. SPL	
	to RISER			to SPL	
UNIT UF1200-24		'	UNIT CW400-24 STUB		'
	fr. MH22			fr.	
	to RISER			to	
UNIT UF100-24		'	UNIT		'
	fr. SPL			fr.	
	to SPL			to	
UNIT CW200-24 STUB		'	UNIT		'

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

alaska COMMUNICATIONS.

TOWNSHIP	RANGE	SECTION
40S	65E	23

ASSOCIATED WORK ORDERS

SOURCE MAPS: 2498-2395-0

REVISION NUMBER–DATE–INITIALS
REV.
REV.
REV.

DA# | EFRAP#
EXCHANGE 8904 STLG | S#
CAD# 129011D4
ENGR/EXT: SMATTIX ex8928
DWN: SMATTIX DATE: 10-08-2012

HELD ORDER: YES NO X | PERMITS: YES NO X | CUTS REQ: YES X NO | PRESSURE: YES NO X

TITLE: STLG
RELO DOTPF DEHARTS RNDABT

BOROUGH/CNTY CBJ

SCALE: APR'D: ISSUED:

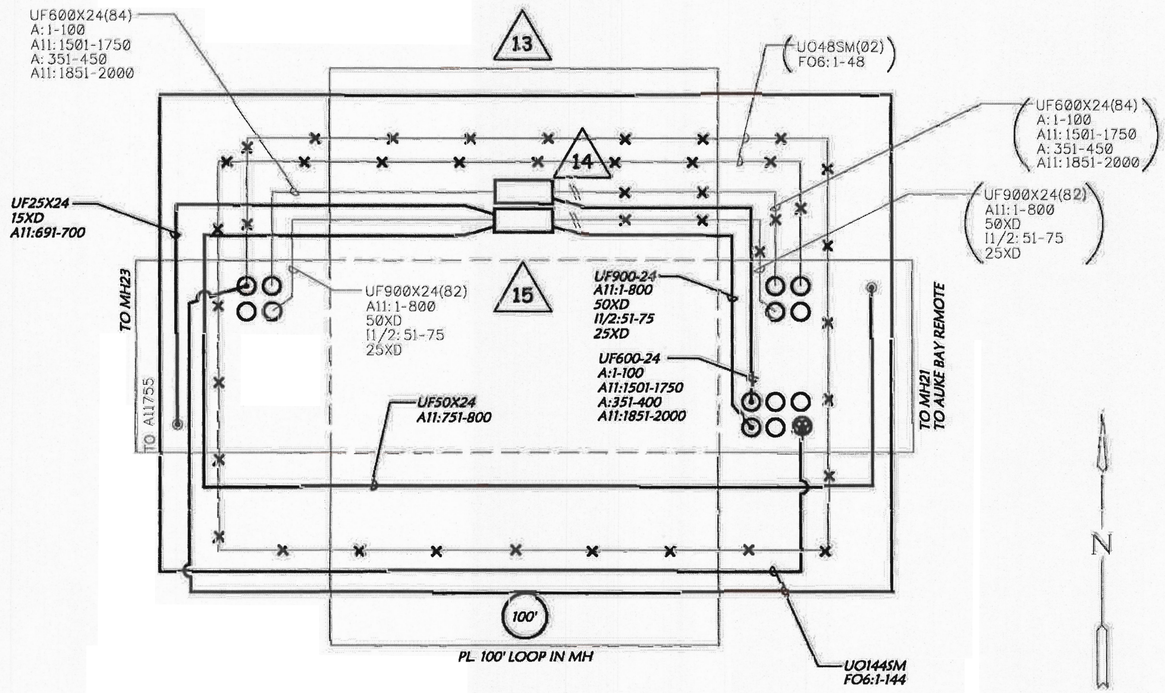
WO# (2012)
012-9011

SH. D4 OF D6 SHTS.

NEW MANHOLE MH22

MANHOLE NO. NEW MH22 LENGTH _____ DEPTH _____

TYPE _____ WIDTH _____ COVER _____



MH 22 (NEW) GLACIER HWY 1.298 KF	13
ACTL	UNIT WBS# 012-9011 -18
	(600) UD(3-1.25)V
	(288) UD5X2-4"P
	(284) UD3X2-4"P
	(1) UM(48X96X60)
	(20) WUD2X2-4P

MH 22 (NEW) GLACIER HWY 1.298 KF	14
ACTL	UNIT WBS# 012-9011 -23
	(1) HUP(900X24)
	(900) HC-3
ACTL	UNIT WBS# 012-9011 -09
	(630) UF900X24
	(276) XX UF900X24 (82)
	(334) XX UF1500X24 (82)

MH 22 (NEW) GLACIER HWY 1.298 KF	15
ACTL	UNIT WBS# 012-9011 -23
	(1) HUP(600X24)
	(600) HC-3
ACTL	UNIT WBS# 012-9011 -09
	(630) UF600X24
	(610) XX UF600X24 (84)

03/06/14 Activity Summary Dwg=129011D5			
Wrkgrp	Activity	QTY	ACTL
LINE	UF600X24	630	
LINE	UF900X24	630	
LINE	XX UF1500X24 (82)	334	
LINE	XX UF600X24 (84)	610	
LINE	XX UF900X24 (82)	276	
SPLICE	HC-3	1500	
SPLICE	HUP(600X24)	1	
SPLICE	HUP(900X24)	1	
SPLICE	UD(3-1.25)V	600	
SPLICE	UD3X2-4"P	284	
SPLICE	UD5X2-4"P	288	
SPLICE	UM(48X96X60)	1	
SPLICE	WUD2X2-4P	20	

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

alaska COMMUNICATIONS.

TOWNSHIP 40S	RANGE 65E	SECTION 23	DA#	EFRAP#
ASSOCIATED WORK ORDERS	SOURCE MAPS 2498-2395-10	REVISION NUMBER-DATE-INITIALS REV. REV. REV.	EXCHANGE 8904 STLG	S#
			CAD# 12901105	
			ENGR/EXT: MONTY WILLIAMS 564-1521	
			DWN: R. HORNER DATE: 2/28/14	

HELD ORDER: YES NO ☐ ☒	PERMITS: YES NO ☐ ☒	CUTS REQ: YES NO ☒ ☐	PRESSURE: YES NO ☐ ☒
TITLE: STLG RELO DOTPF DEHARTS RNDABT			WO# (2012) 012-9011
BOROUGH/CNTY CBJ			
SCALE: NTS	APR'D:	ISSUED:	SH. D5 OF D6 SHTS.

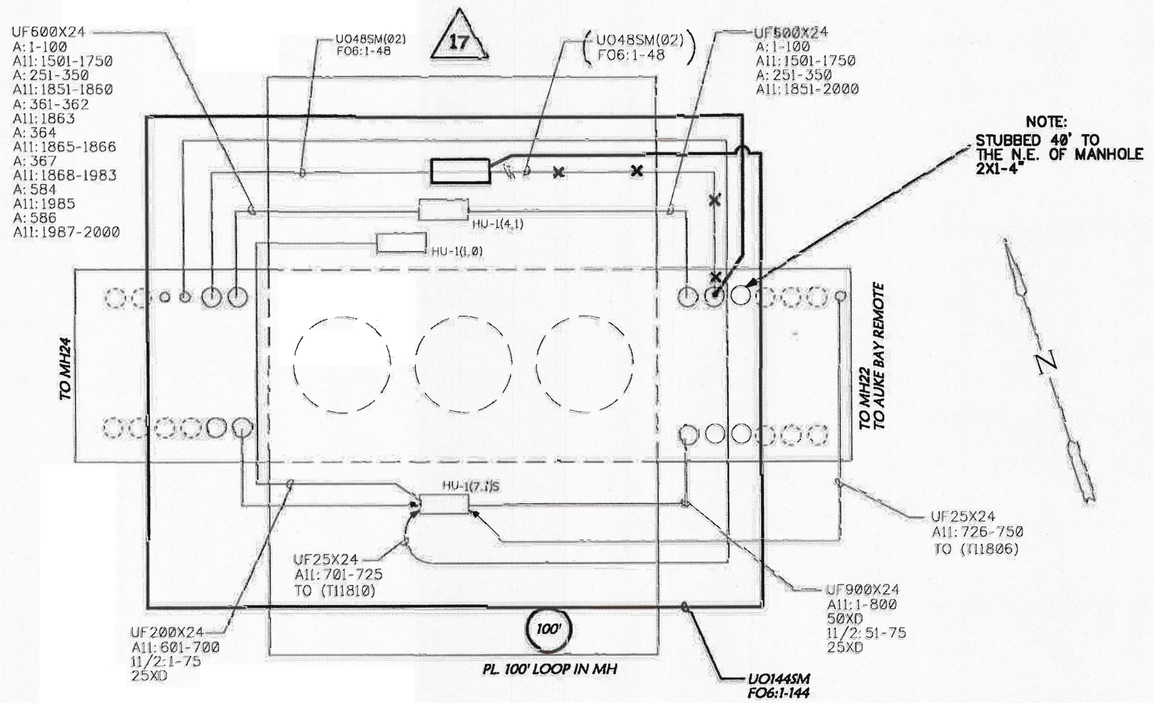
MH 23 GLACIER HWY 1.623 KF	17
ACTL	UNIT WBS# 012-9011 -23
	(1) HUPO 144
	(48) HO1
	(1) PUMP MH
ACTL	UNIT WBS# 012-9011 -09
	(2023) UO144SM 2.023 KF
	(1929) XX UO48SM(02)

MANHOLE MH23

MANHOLE NO. (MH23) 230580 LENGTH 8'-4" ID DEPTH 6'-2" ID

TYPE 4484TA WIDTH 4'-4" ID COVER 42" DIA

o =2"
◯=4"



SEE MAP 2496.5-2395-0

N

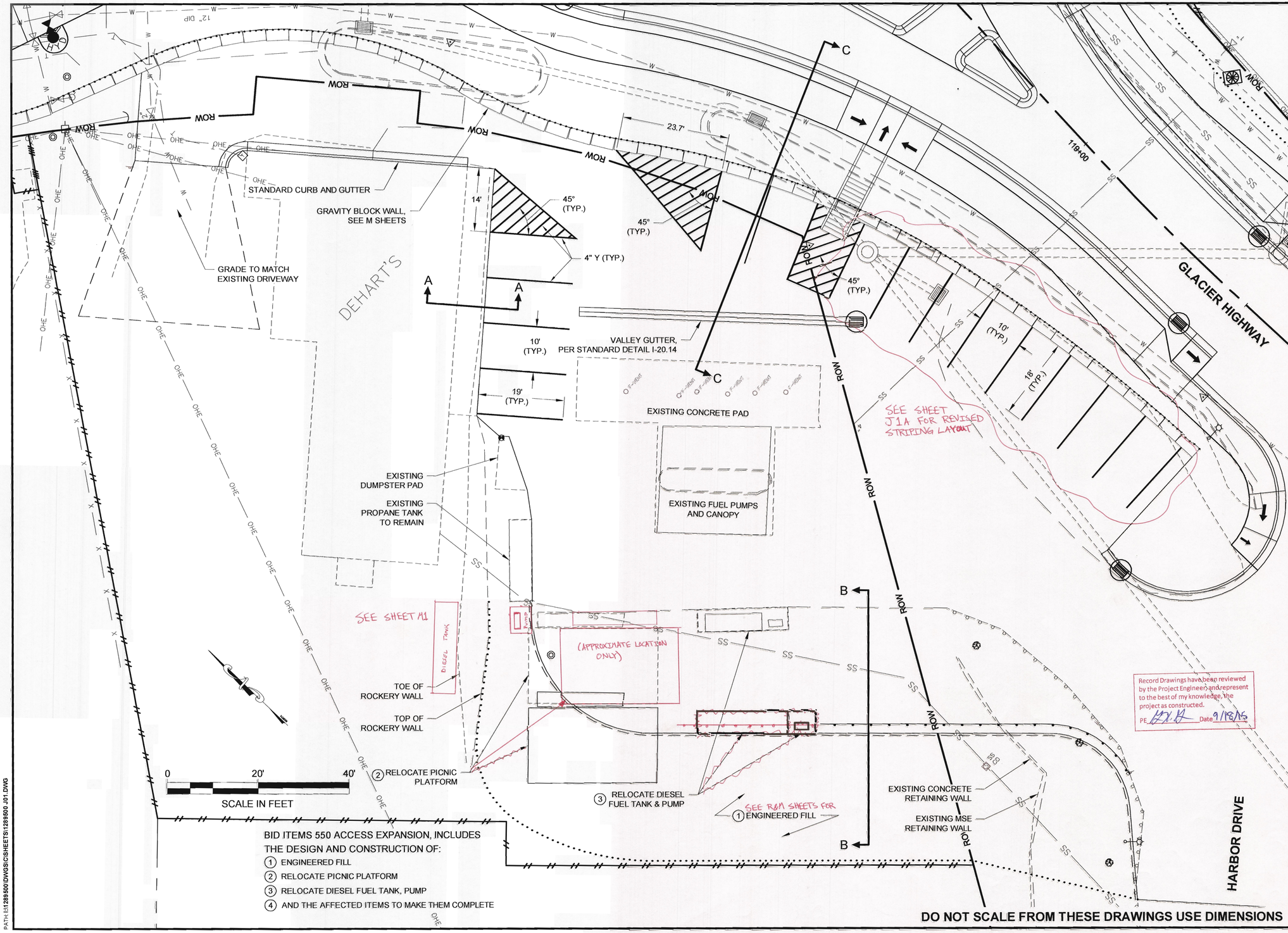
03/06/14 Activity Summary Dwg=129011D6			
Wrkgrp	Activity	QTY	ACTL
LINE	U0144SM	2023	
LINE	XX U048SM(02)	1929	
SPLICE	HO1	48	
SPLICE	HUPO 144	1	
SPLICE	PUMP MH	1	

CALL
CALL LOCATE: 1-800-478-3121
2 WORKING DAYS PRIOR TO CONSTRUCTION
FOR UNDERGROUND SERVICES LOCATING

Alaska COMMUNICATIONS.

TOWNSHIP 40S	RANGE 65E	SECTION 23	DA#	EDAP#
ASSOCIATED WORK ORDERS	SOURCE MAPS 2498-2395-0	REVISION NUMBER–DATE–INITIALS	EXCHANGE 8904 STLG	S#
		REV.	CAD# 129011D6	
		REV.	ENGR/EXT: MONTY WILLIAMS 564-1521	
		REV.	DWN: R. HORNER DATE: 2/28/14	

HELD ORDER: YES ☐ NO ☒	PERMITS: YES ☐ NO ☒	CUTS REQ: YES ☒ NO ☐	PRESSURE: YES ☐ NO ☒
TITLE: STLG RELO DOTPF DEHARTS RNDABT			WO# (2012) 012-9011
BOROUGH/CNTY CBJ			
SCALE: NTS APR'D:	ISSUED:		SH. D6 OF D6 SHTS.



BID ITEMS 550 ACCESS EXPANSION, INCLUDES THE DESIGN AND CONSTRUCTION OF:

1. ENGINEERED FILL
2. RELOCATE PICNIC PLATFORM
3. RELOCATE DIESEL FUEL TANK, PUMP
4. AND THE AFFECTED ITEMS TO MAKE THEM COMPLETE

Record Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK
TAB: J1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. LEIGH

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

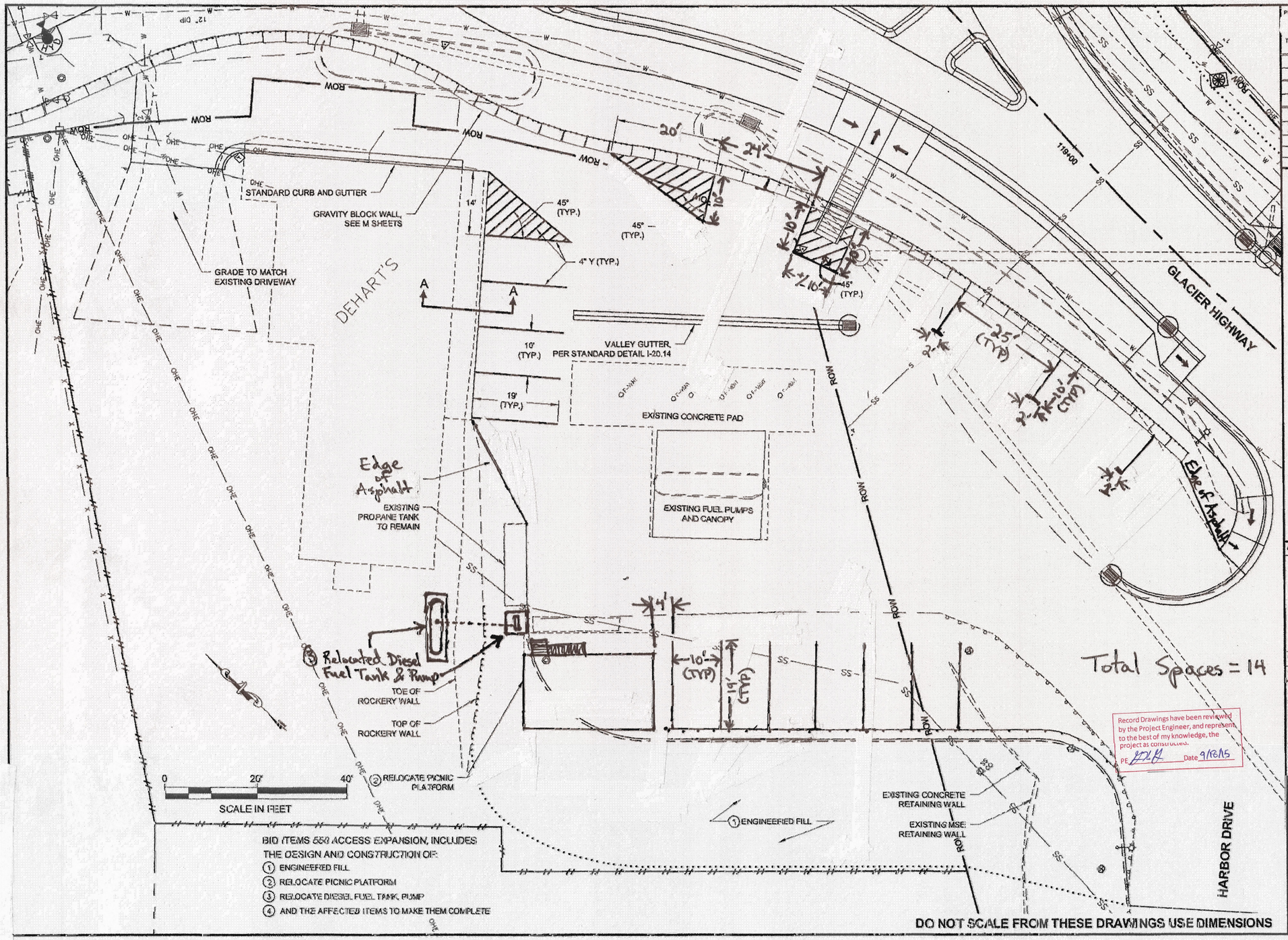
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DEHART'S ACCESS EXPANSION

PROJECT DESIGNATION: 69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J1	82

PATH: I:\1289500\DWGS\C\SHEETS\1289500 J01.DWG



PREPARED BY:

TAB:

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY:

DESIGNED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

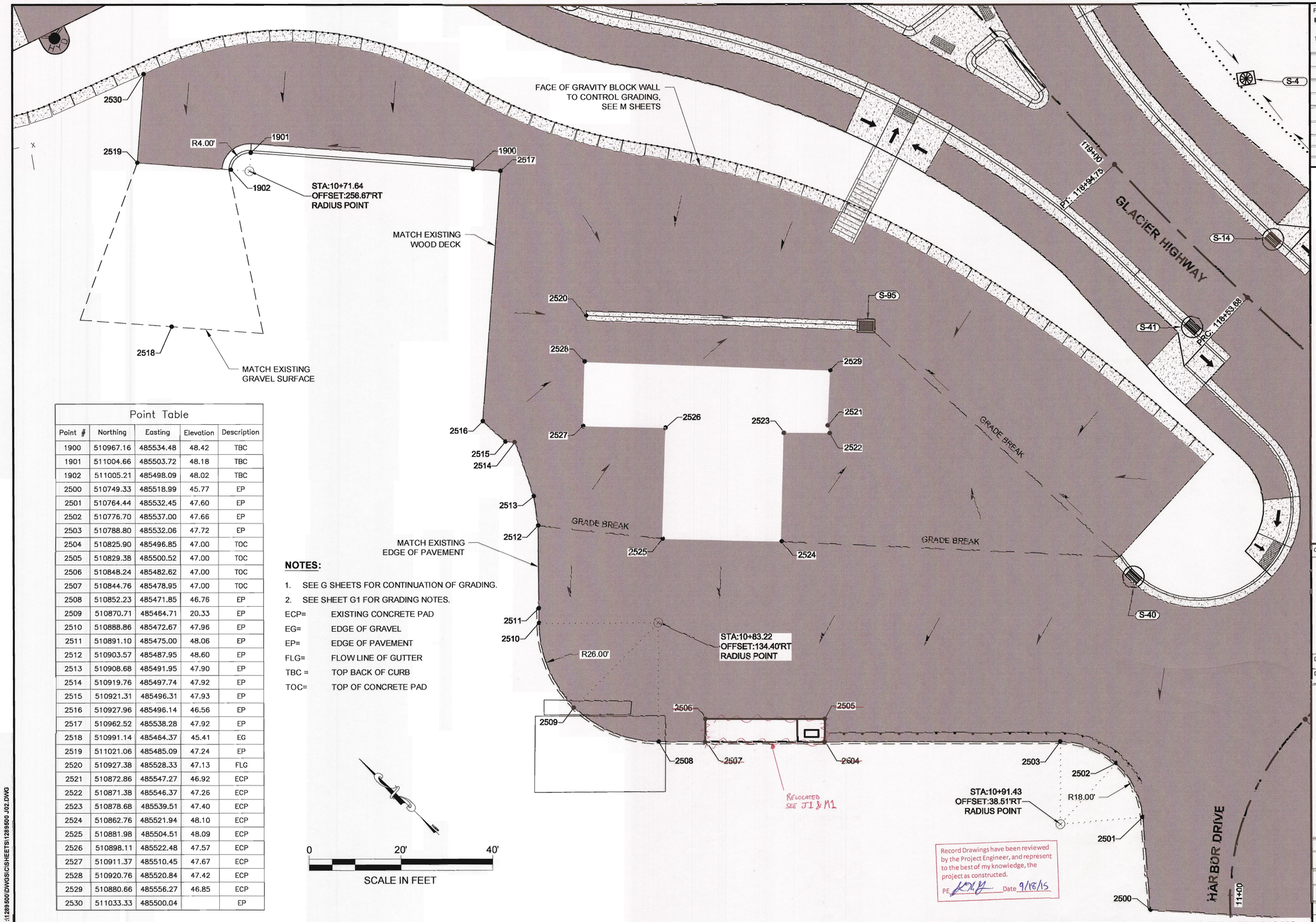
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DEHART'S REVISED STRIPING

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [illegible] Date 9/16/15

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J1A	1

Forrest Hodges
7/15/14



Point Table				
Point #	Northing	Easting	Elevation	Description
1900	510967.16	485534.48	48.42	TBC
1901	511004.66	485503.72	48.18	TBC
1902	511005.21	485498.09	48.02	TBC
2500	510749.33	485518.99	45.77	EP
2501	510764.44	485532.45	47.60	EP
2502	510776.70	485537.00	47.66	EP
2503	510788.80	485532.06	47.72	EP
2504	510825.90	485496.85	47.00	TOC
2505	510829.38	485500.52	47.00	TOC
2506	510848.24	485482.62	47.00	TOC
2507	510844.76	485478.95	47.00	TOC
2508	510852.23	485471.85	46.76	EP
2509	510870.71	485464.71	20.33	EP
2510	510888.86	485472.67	47.96	EP
2511	510891.10	485475.00	48.06	EP
2512	510903.57	485487.95	48.60	EP
2513	510908.68	485491.95	47.90	EP
2514	510919.76	485497.74	47.92	EP
2515	510921.31	485496.31	47.93	EP
2516	510927.96	485496.14	46.56	EP
2517	510962.52	485538.28	47.92	EP
2518	510991.14	485464.37	45.41	EG
2519	511021.06	485485.09	47.24	EP
2520	510927.38	485528.33	47.13	FLG
2521	510872.86	485547.27	46.92	ECP
2522	510871.38	485546.37	47.26	ECP
2523	510878.68	485539.51	47.40	ECP
2524	510862.76	485521.94	48.10	ECP
2525	510881.98	485504.51	48.09	ECP
2526	510898.11	485522.48	47.57	ECP
2527	510911.37	485510.45	47.67	ECP
2528	510920.76	485520.84	47.42	ECP
2529	510880.66	485556.27	46.85	ECP
2530	511033.33	485500.04		EP

NOTES:

1. SEE G SHEETS FOR CONTINUATION OF GRADING.
2. SEE SHEET G1 FOR GRADING NOTES.

ECP= EXISTING CONCRETE PAD
EG= EDGE OF GRAVEL
EP= EDGE OF PAVEMENT
FLG= FLOW LINE OF GUTTER
TBC = TOP BACK OF CURB
TOC= TOP OF CONCRETE PAD

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE KMB Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289600\DWGS\CISHEETS\1289600_J02.DWG

PREPARED BY: USKH
BILL PADDOCK
TAB: J2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathon C. Leigh
CE-8386
REGISTERED PROFESSIONAL ENGINEER
4/8/13

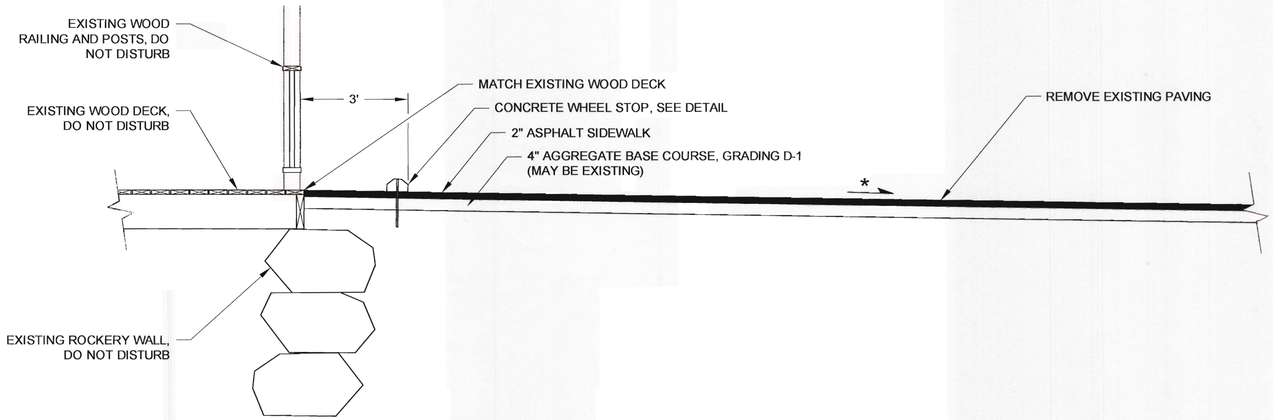
DESIGNED BY: N. LEIGH
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

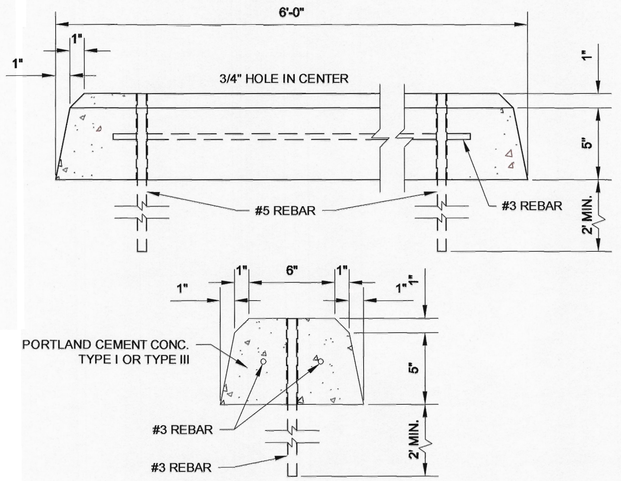
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DEHART'S ACCESS EXPANSION

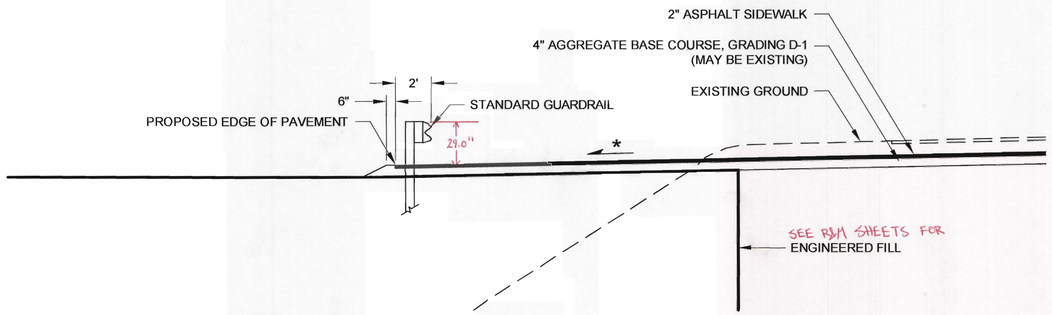
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J2	82



SECTION A-A

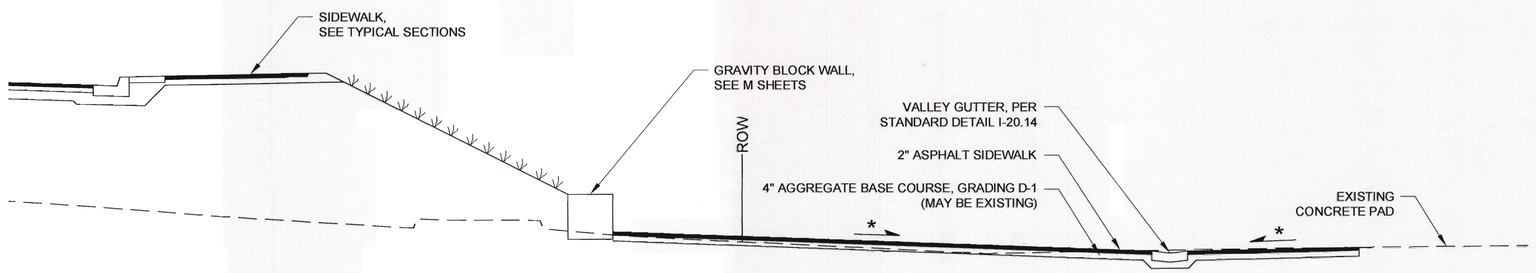


CONCRETE WHEEL STOP



SECTION B-B

*SLOPES VARY, SEE GRADING PLAN SHEET J2



SECTION C-C

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/15/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **J3**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan Leigh Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: N. LEIGH

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DEHART'S ACCESS EXPANSION

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J3	82

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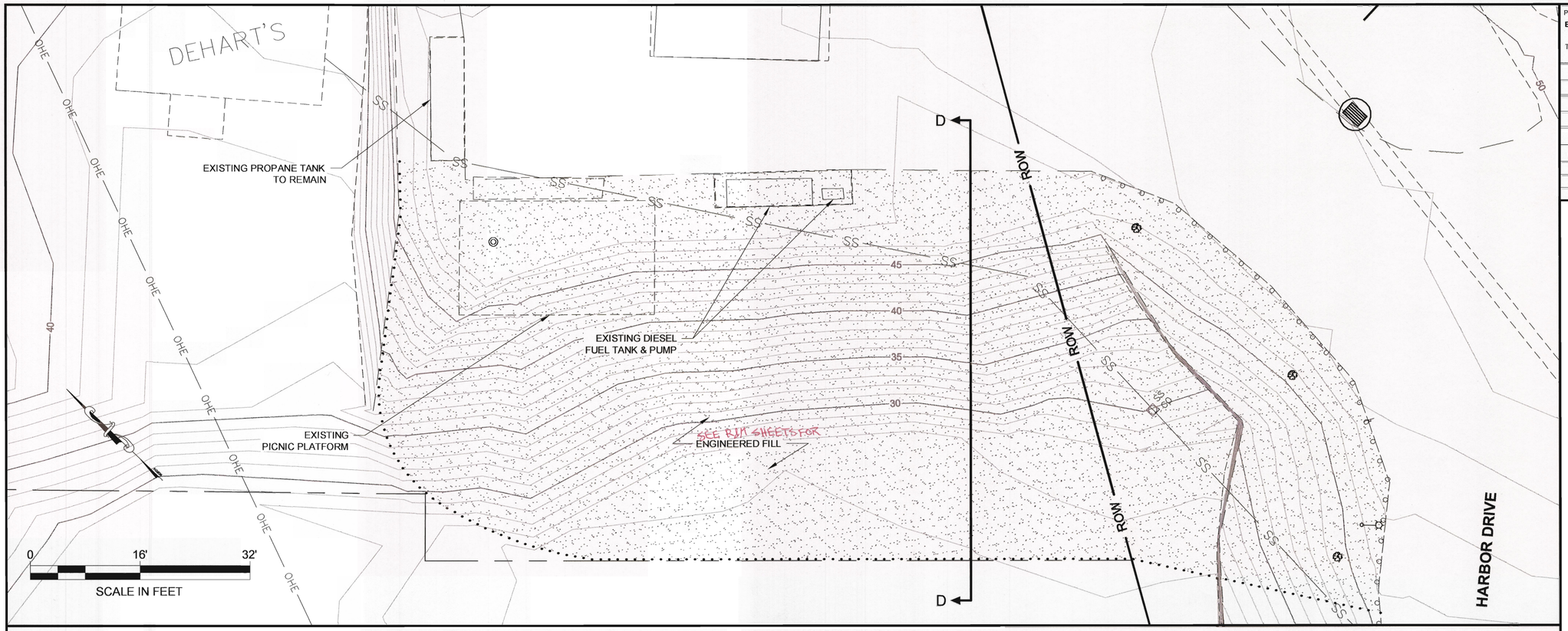
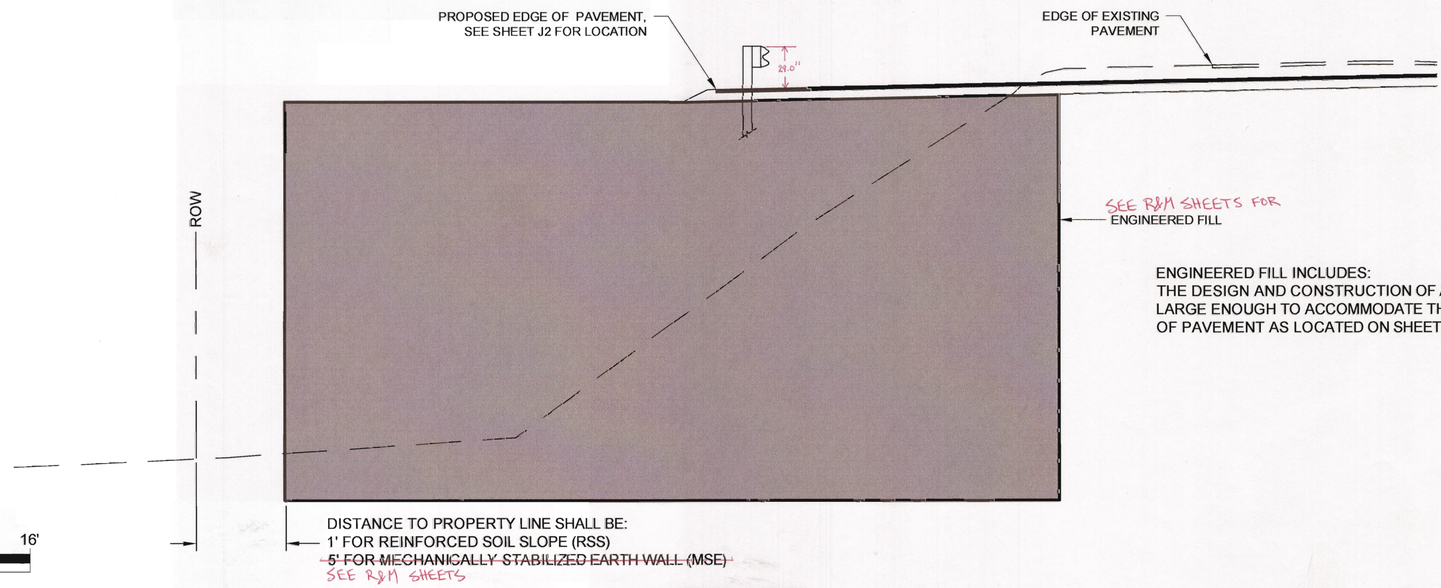




SECTION D-D

ENGINEERED FILL INCLUDES:
THE DESIGN AND CONSTRUCTION OF AN ~~MSE WALL OR~~ RSS LARGE ENOUGH TO ACCOMMODATE THE PROPOSED EDGE OF PAVEMENT AS LOCATED ON SHEET J2

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE YZ.H Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\SHEETS\1289500_J04.DWG

PREPARED BY: USKH
BILL PADDOCK
TAB: **J4**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
9/18/15
REGISTERED PROFESSIONAL ENGINEER

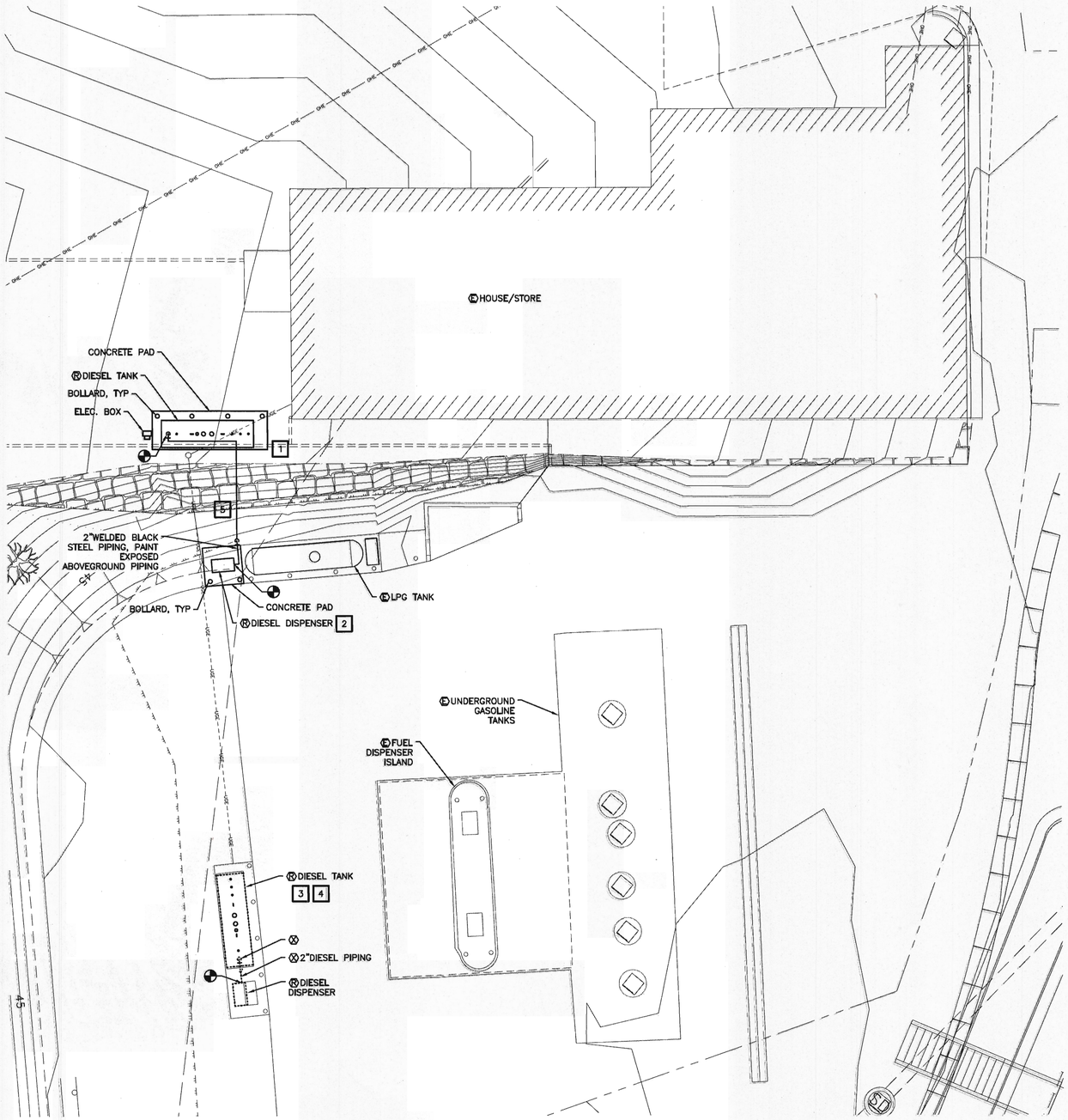
DESIGNED BY: N. LEIGH
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

DEHART'S ACCESS EXPANSION

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
J4	82



1 SITE PLAN

SCALE: 0 4' 8' 16'

SYMBOLS

- GATE VALVE–RATED FOR DIESEL FUEL
- PITCHED DOWN
- REDUCER
- CAPPED OR PLUGGED
- POINT OF CONNECTION OR REMOVAL
- 1 CONSTRUCTION NOTE
- ø DIAMETER
- ℄ CENTER LINE
- Ⓐ ACCESS DOOR
- Ⓡ TO BE RELOCATED
- Ⓧ TO BE REMOVED
- TYP. TYPICAL

CODE NOTES:

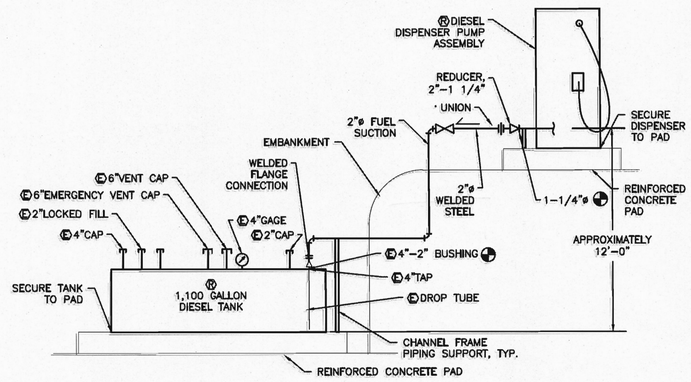
1. CODES & REGULATIONS: ALL WORK HEREUNDER SHALL BE STRICTLY IN CONFORMANCE WITH APPLICABLE CODES AND REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2009 INTERNATIONAL BODY OF CODES, 2009 UNIFORM PLUMBING CODE, LATEST APPROVED NFPA CODE, AND STATE OF ALASKA MODIFICATIONS IN SO FAR AS MINIMUM REQUIREMENTS. DRAWINGS AND SPECIFICATION SHALL GOVERN WHERE EXCEEDED. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UL LABEL.

CONSTRUCTION NOTES:

1. REQUIRED MINIMUM CLEARANCE FOR DIESEL TANK FROM BUILDING IS 5 FEET PER NFPA 30 TABLE 22.4.1.
2. REQUIRED CLEARANCE AROUND DIESEL DISTRIBUTION PUMP IS A CLASS I DIVISION 1 APPLICANT AND PER NFPA 30 FOR CLASS 1 DIVISION 1 ELECTRICAL CAN BE WITHIN 3 FEET AREA ADJACENT TO THE TANK.
3. DRAIN 1100 GALLON DIESEL TANK COMPLETELY PRIOR TO MOVING TANK TO NEW LOCATION.
4. PROTECT TANK LEVEL GAGE AND EMERGENCY VENTS FROM DAMAGE DURING MOVE.
5. BURY 2 INCH DIESEL SUCTION PIPING A MINIMUM OF 6 INCH DEEP IN EMBANKMENT SURROUNDED BY WELL COMPACTED, NON FROST SUSCEPTIBLE BEDDING MATERIALS. EXCAVATED EMBANKMENT AS REQUIRED.

GENERAL NOTES:

1. SCOPE OF WORK: RELOCATE DIESEL DISPENSER PUMP AND 1,100 GALLON ABOVE GROUND DIESEL STORAGE TANK. PROVIDE BLACK STEEL FUEL PIPING AND TRIM FROM TANK TO DISPENSER CONNECTION WITH ALL REQUIRED APPURTENANCES, PAINT TWO COATS RUST PREVENTIVE PAINT. PROVIDE TANK SUPPORTS AND ANCHORS FOR TANK INSTALLATION AND DISPENSER PUMP. PROVIDE WARNING LABELS AND TAGS.
2. SEE ELECTRICAL DRAWING FOR RELATED WORK.



2 OIL PIPING DIAGRAM

NO SCALE

STATE OF ALASKA
19th
DOUGLAS H. MURRAY
ME 7870
REGISTERED PROFESSIONAL ENGINEER
ISSUE DATE: 09/03/2013

MURRAY & ASSOCIATES, P. C.
CONSULTING ENGINEERS
MURRAYPC.COM
P O BOX 21081
JUNEAU, ALASKA 99802
TEL: 907 780–6151
FAX: 907 780–6182

DEHART'S STORE

DIESEL FUEL TANK RELOCATION

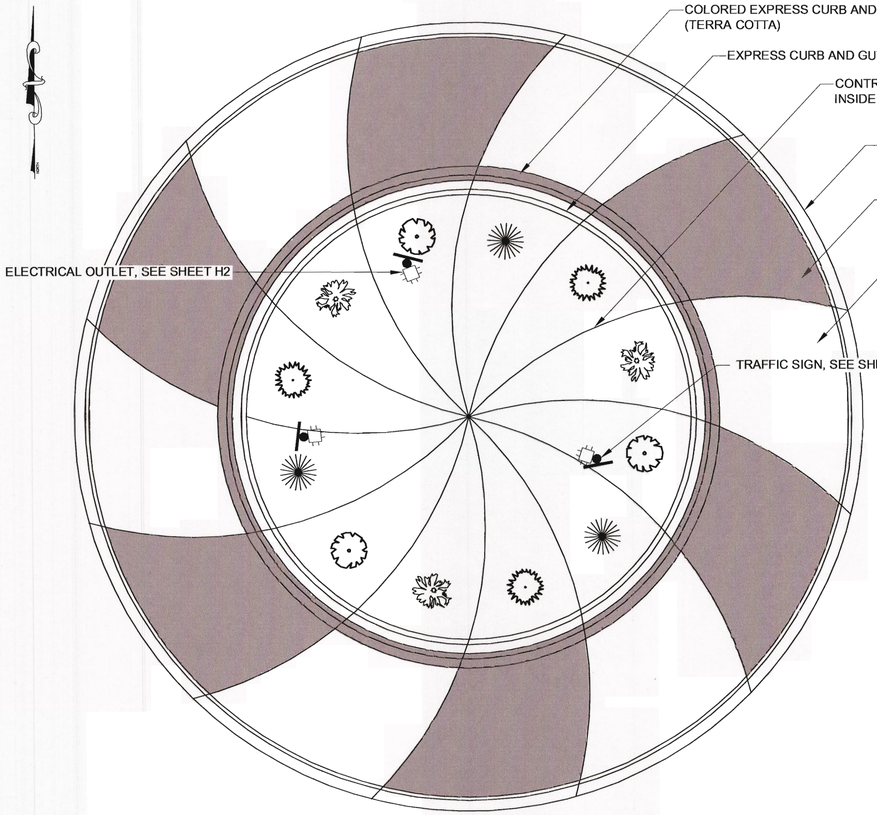
JUNEAU, ALASKA

SHEET TITLE: SITE PLAN

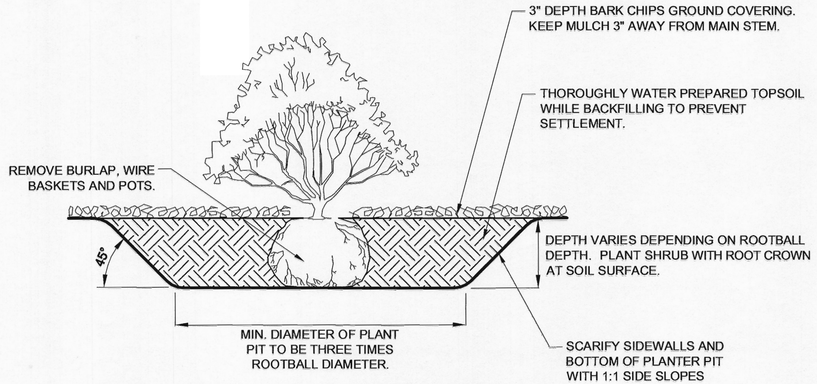
SCALE:	AS SHOWN:
DATE:	09/03/2013
DRAWN:	KB
DESIGNED:	DM
CHECKED:	DM

SHEET NO. **M1**

JOB NO. M–484

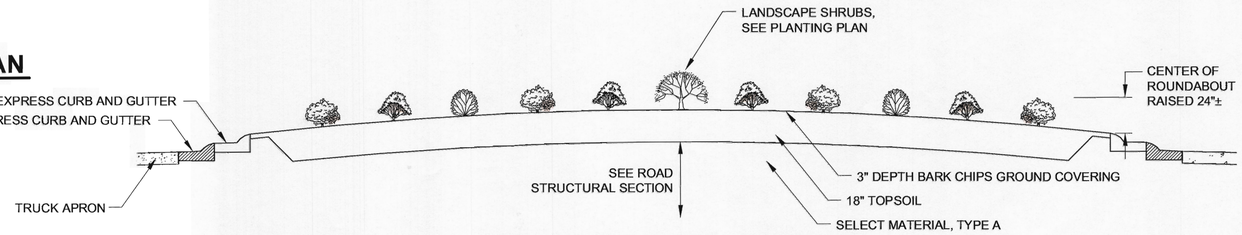


ROUNDABOUT LANDSCAPE PLANTING PLAN



TYPICAL SHRUB PLANTING DETAIL

NTS



ROUNDABOUT SECTION

GLACIER HIGHWAY & BACK LOOP ROAD

LANDSCAPE SHRUBS - PLANTING SCHEDULE

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE & SPACING	621(2)
	TAXUS CUSPIDATA DENSIFORMIS	DENSIFORMIS JAPANESE YEW	2 GAL CAN, 24" O.C.	171
	SPIRAEA BETULAFOLIA "TOR"	"TOR" BIRCHLEAF SPIREA	1 GAL, 18" O.C.	~~379~~ ~~279~~ 279
	BERBERIS THUMBERGII "~~CRIMSON CAROUSEL~~" "GENTRY" ROYAL BURGUNDY	~~CRIMSON CAROUSEL~~ JAPANESE BARBERRY	1 GAL, 18" O.C.	279
	SPIRAEA JAPONICA "~~GOLDEN PRINCESS~~" MOUND"	JAPANESE ~~GOLDEN PRINCESS~~ SPIREA	1 GAL, 18" O.C.	279

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: L1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan G. Leigh
CE-8388
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: UAS, D. LENDRUM

DRAWN BY: C. PANNONE, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

ROUNDABOUT LANDSCAPE PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
L1	82

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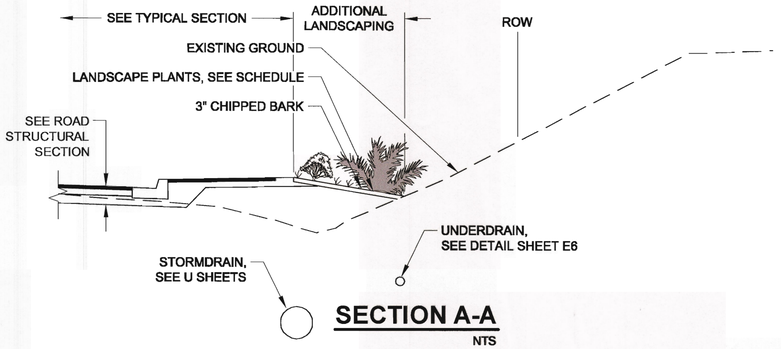
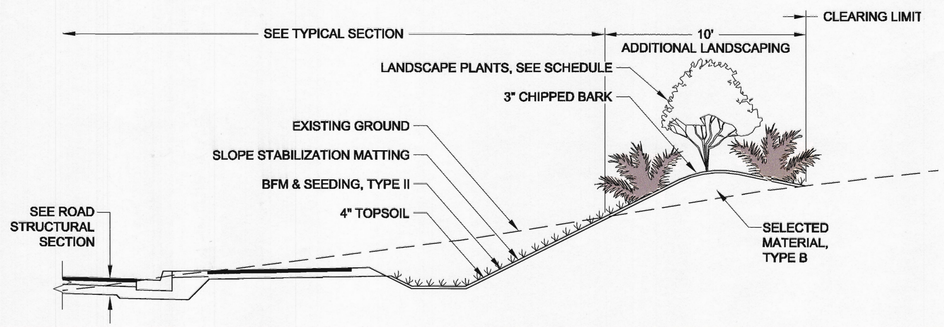


SECTION A-A

NTS



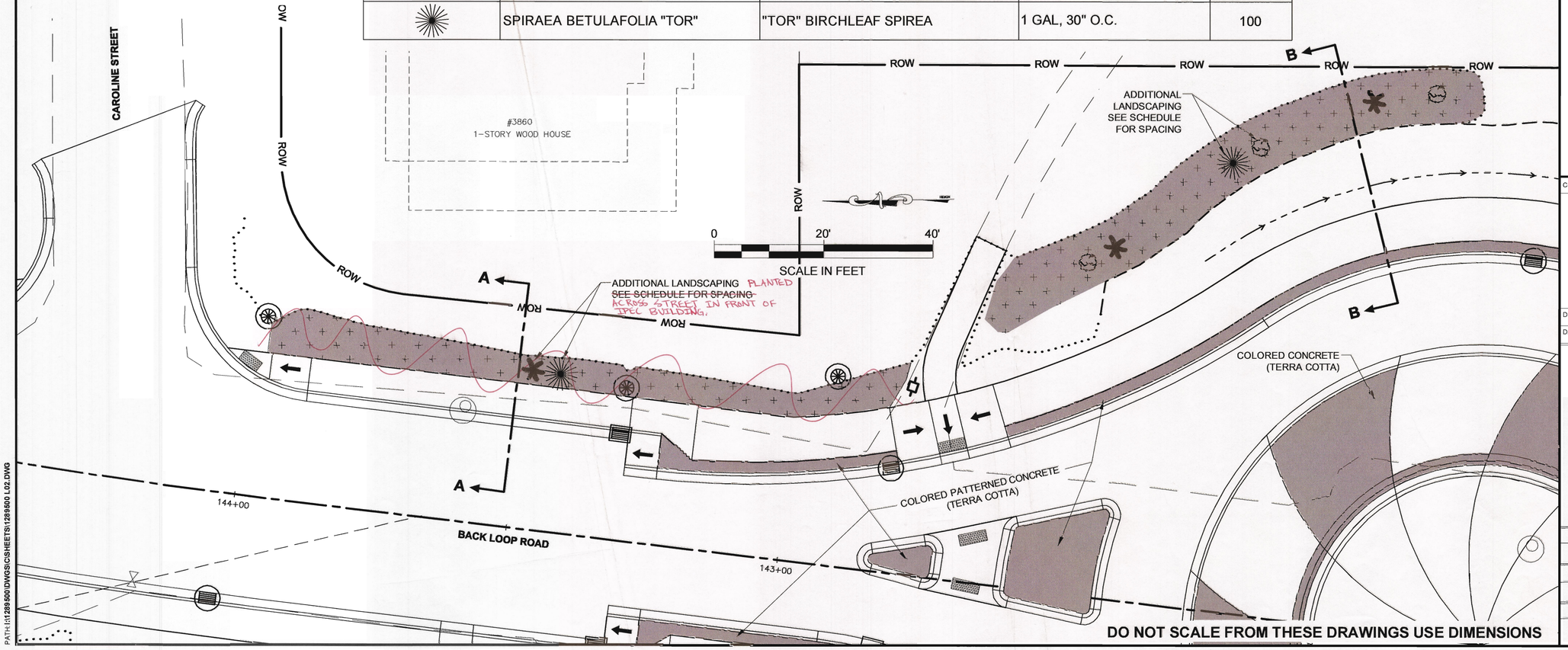
SECTION B-B

NTS

LANDSCAPE SHRUBS - PLANTING SCHEDUELE

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE & SPACING	621(2)
	AMELANCHIER CANADEN SIS	SERVICEBERRY	3-4 FT, 10' O.C.	~~24~~ 27
*	SORBARIA SORBIFOLIA	ASH LEAF SPIRAEA	2 GAL, 7' O.C.	34
	SPIRAEA BETULAFOLIA "TOR"	"TOR" BIRCHLEAF SPIREA	1 GAL, 30" O.C.	100

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE NLH Date 9/16/15



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK

TAB: L2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
CE-8386
4/8/13.
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: UAS

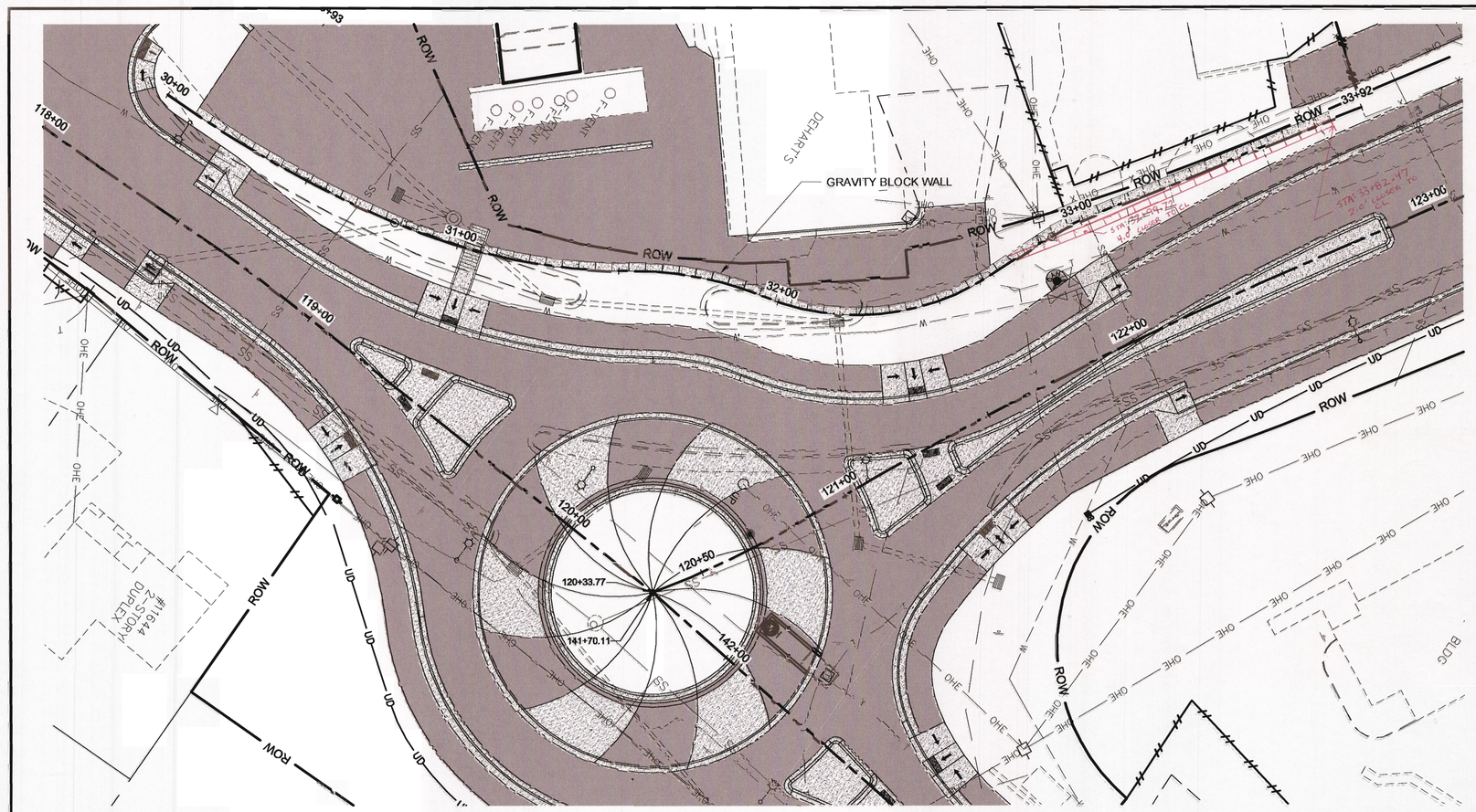
DRAWN BY: C. PANNONE, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

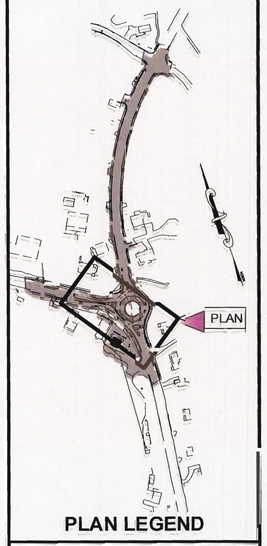
ADDITIONAL LANDSCAPING

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
L2	82

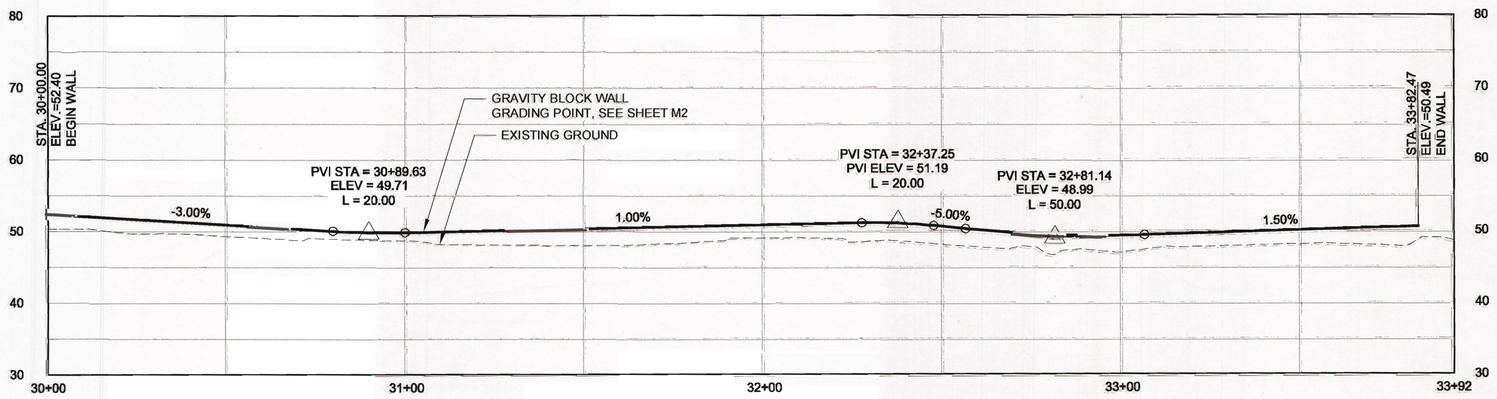


0 40' 80'

SCALE IN FEET



PLAN LEGEND



NOTES:

1. SEE SHEET A3 FOR GRAVITY BLOCK WALL HORIZONTAL ALIGNMENT.
2. SEE SHEET M2 FOR LOCATION OF GRAVITY BLOCK WALL GRADING POINT ON WALL SECTION.
3. MAINTAIN ACCESS TO DEEM'S RESIDENTIAL PROPERTY BY CONSTRUCTING NEW DRIVEWAY PRIOR TO CONSTRUCTING GRAVITY BLOCK WALL.

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/16/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **M1**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan Leigh
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

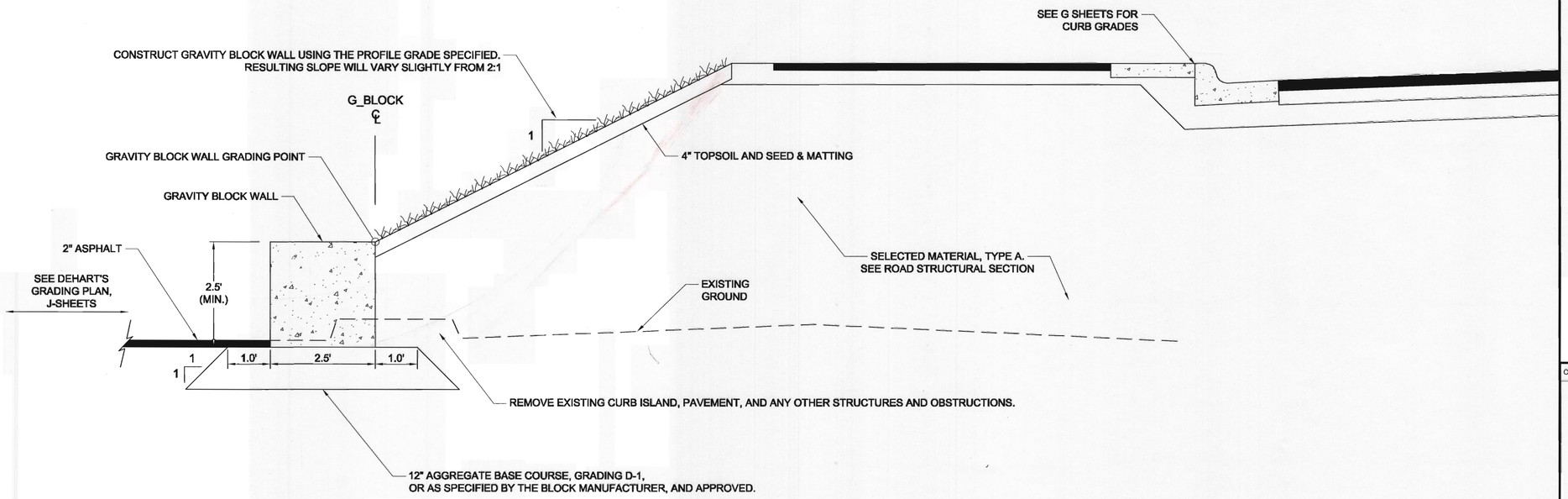
GRAVITY BLOCK WALL PLAN & PROFILE

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
M1	82

PATH: I:\1289500\DWGS\CS\SHEETS\1289500 M01-M02.DWG



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:\\1128500\DWGS\CS\SHEETS\1128500_M01-M02.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **M2**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER, W. WEBB, B. PADDOCK

DRAWN BY: M. HIDALGO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

GRAVITY BLOCK WALL SECTION

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
M2	**82**

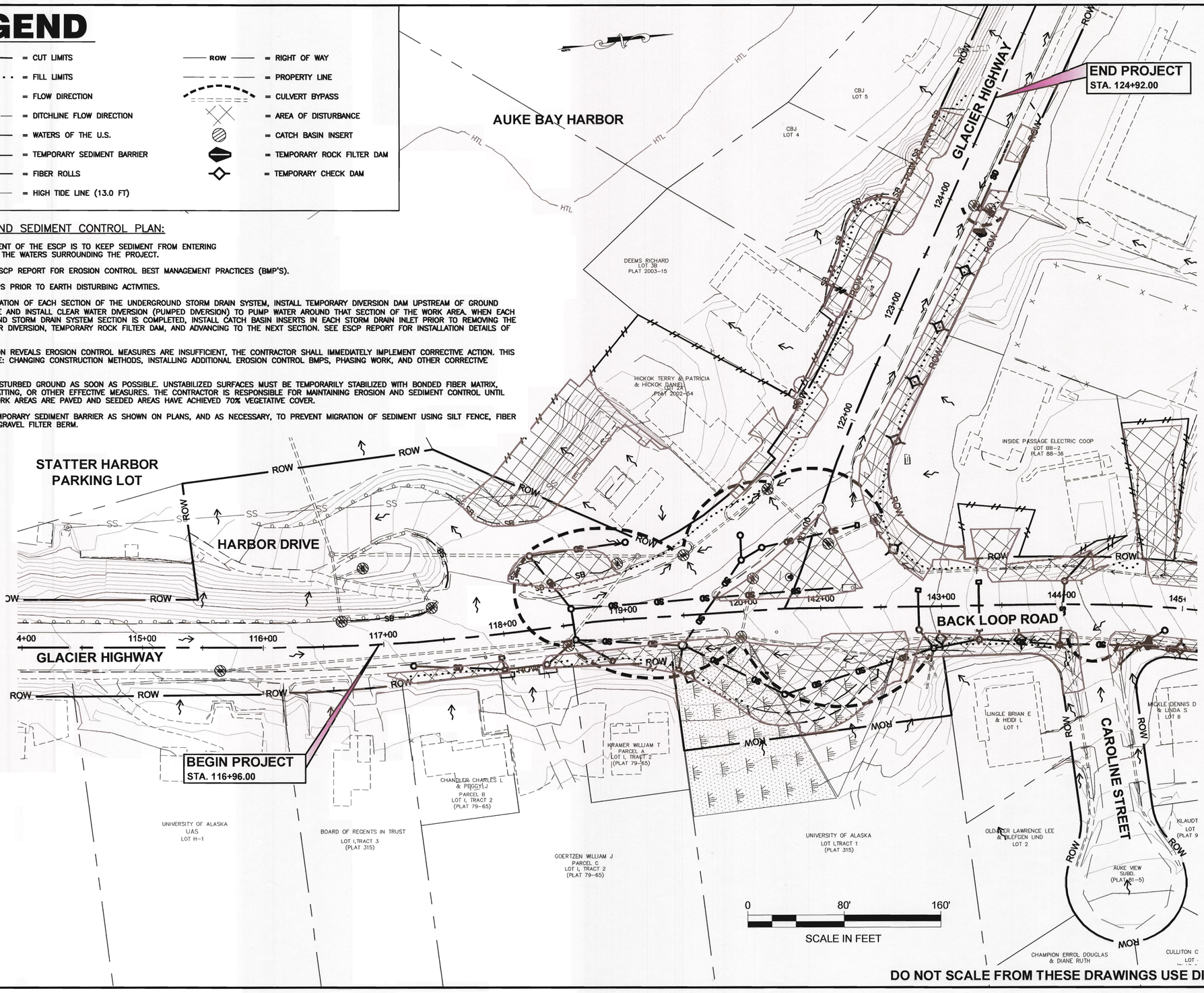
LEGEND

= CUT LIMITS	ROW = RIGHT OF WAY
= FILL LIMITS	= PROPERTY LINE
= FLOW DIRECTION	= CULVERT BYPASS
= DITCHLINE FLOW DIRECTION	= AREA OF DISTURBANCE
= WATERS OF THE U.S.	= CATCH BASIN INSERT
SB = TEMPORARY SEDIMENT BARRIER	= TEMPORARY ROCK FILTER DAM
FR = FIBER ROLLS	= TEMPORARY CHECK DAM
HTL = HIGH TIDE LINE (13.0 FT)	

EROSION AND SEDIMENT CONTROL PLAN:

GENERAL: THE INTENT OF THE ESCP IS TO KEEP SEDIMENT FROM ENTERING ANY OF THE WATERS SURROUNDING THE PROJECT.

1. REFER TO ESCP REPORT FOR EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S).
2. INSTALL BMPS PRIOR TO EARTH DISTURBING ACTIVITIES.
3. FOR INSTALLATION OF EACH SECTION OF THE UNDERGROUND STORM DRAIN SYSTEM, INSTALL TEMPORARY DIVERSION DAM UPSTREAM OF GROUND DISTURBANCE AND INSTALL CLEAR WATER DIVERSION (PUMPED DIVERSION) TO PUMP WATER AROUND THAT SECTION OF THE WORK AREA. WHEN EACH UNDERGROUND STORM DRAIN SYSTEM SECTION IS COMPLETED, INSTALL CATCH BASIN INSERTS IN EACH STORM DRAIN INLET PRIOR TO REMOVING THE CLEAR WATER DIVERSION, TEMPORARY ROCK FILTER DAM, AND ADVANCING TO THE NEXT SECTION. SEE ESCP REPORT FOR INSTALLATION DETAILS OF BMPS.
4. IF INSPECTION REVEALS EROSION CONTROL MEASURES ARE INSUFFICIENT, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. THIS MAY INCLUDE: CHANGING CONSTRUCTION METHODS, INSTALLING ADDITIONAL EROSION CONTROL BMPS, PHASING WORK, AND OTHER CORRECTIVE MEASURES.
5. STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH BONDED FIBER MATRIX, SEEDING, MATTING, OR OTHER EFFECTIVE MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE PAVED AND SEEDED AREAS HAVE ACHIEVED 70% VEGETATIVE COVER.
6. PROVIDE TEMPORARY SEDIMENT BARRIER AS SHOWN ON PLANS, AND AS NECESSARY, TO PREVENT MIGRATION OF SEDIMENT USING SILT FENCE, FIBER ROLLS, OR GRAVEL FILTER BERM.



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: H:\1289500\DWGS\CSHEETS\1289500 P01-P02.DWG

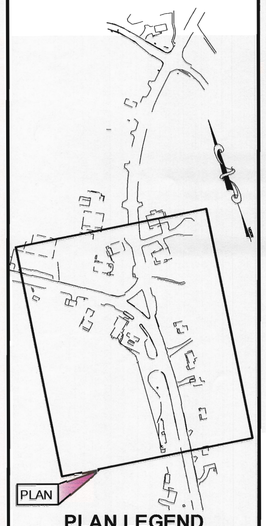
PREPARED BY: USKH
BILL PADDOCK

TAB: P1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

DESIGNED BY: K. NORD

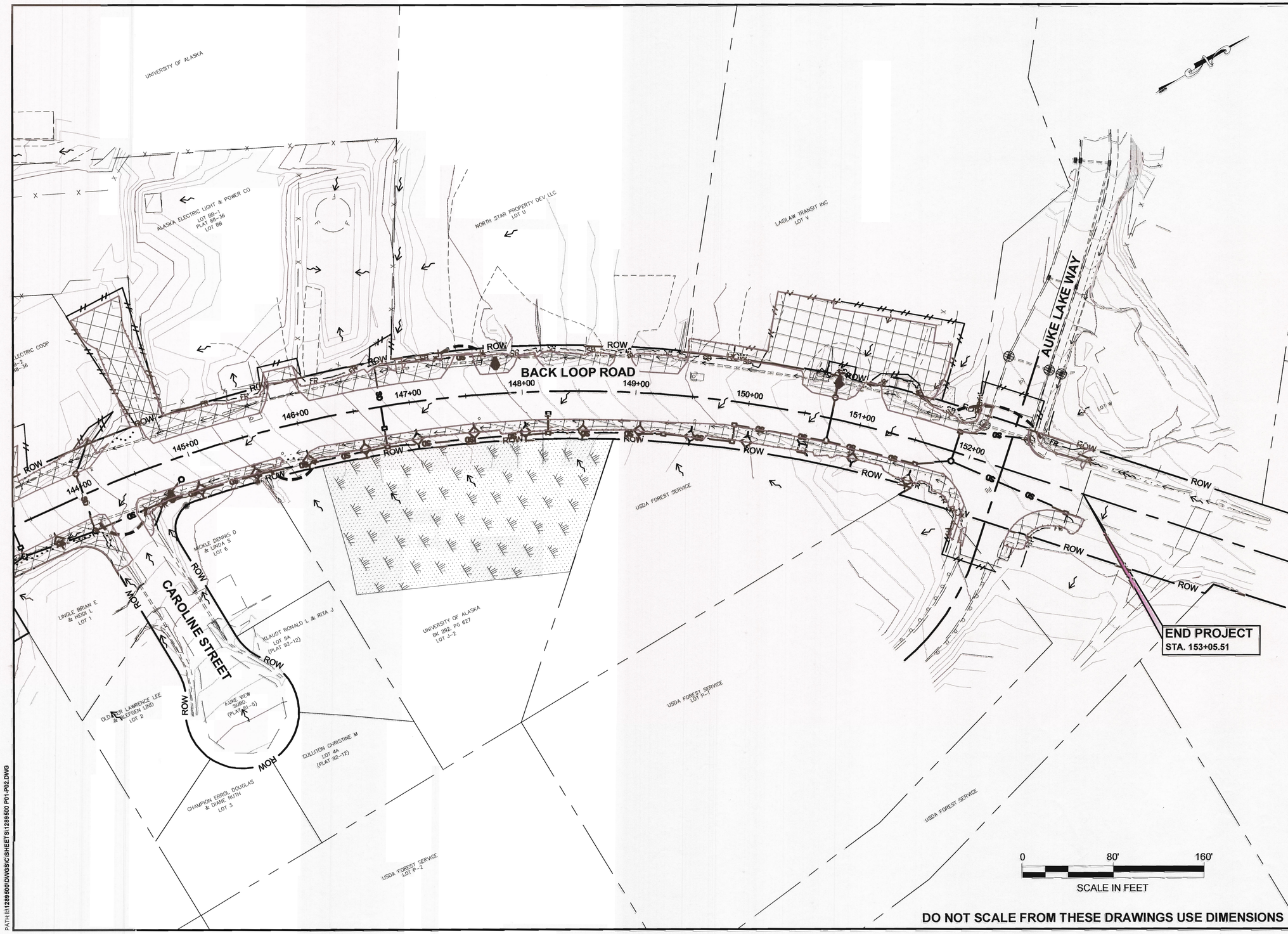
DRAWN BY: M. HIDALGO, C. PANNONE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

ESCP EARTHWORK PHASE BMPS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P1	82



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK

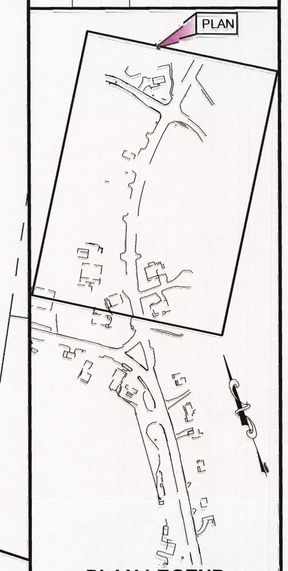
TAB: P2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

DESIGNED BY: K. NORD

DRAWN BY: M. HIDALGO, C. PANNONE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

ESCP EARTHWORK PHASE BMPS

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P2	82

LEGEND

- 100+00 = PAVED SURFACE
- = GRAVEL SURFACING
- = BONDED FIBER MATRIX (BFM), SEEDING & MATTING
- = FLOW DIRECTION
- = TEMPORARY ROCK FILTER DAM
- = TEMPORARY CHECK DAM
- ROW = RIGHT OF WAY
- = PROPERTY LINE
- HTL = HIGH TIDE LINE (13.0 FT)
- = DITCH LINE FLOW DIRECTION

AUKE BAY HARBOR

STATTER HARBOR PARKING LOT

HARBOR DRIVE

GLACIER HIGHWAY

BACK LOOP ROAD

CAROLINE STREET

BEGIN PROJECT
STA. 116+96.00

END PROJECT
STA. 124+92.00

DEEMS RICHARD
LOT 3B
PLAT 2003-15

LOT 3C
PLAT 2003-15

CBJ
LOT 5

CBJ
LOT 4

HICKOK TERRY & PATRICIA
& HICKOK DANIEL
LOT 5A
PLAT 2002-64

INSIDE PASSAGE ELECTRIC COOP
LOT 88-2
PLAT 88-36

KRAMER WILLIAM T
PARCEL A
LOT 1, TRACT 2
(PLAT 79-65)

CHANDLER CHARLES L
& PEGGY J
PARCEL B
LOT 1, TRACT 2
(PLAT 79-65)

UNIVERSITY OF ALASKA
UAS
LOT H-1

BOARD OF REGENTS IN TRUST
LOT 1, TRACT 3
(PLAT 315)

GOERTZEN WILLIAM J
PARCEL C
LOT 1, TRACT 2
(PLAT 79-65)

UNIVERSITY OF ALASKA
LOT 1, TRACT 1
(PLAT 315)

LINGLE BRIAN E
& HEIDI L
LOT 1

OLDAKER LAWRENCE LEE
& ELEFGEN LIND
LOT 2

MICKLE DENNIS D
& LINDA S
LOT 6

KLAUDT
LOT
(PLAT 9

AUKE VIEW
SUBD.
(PLAT 81-5)

CHAMPION ERROL DOUGLAS
& DIANE RUTH

CULLITON C
LOT

0 80' 160'

SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:H:\1289600\DWGS\C\SHEETS\1289600 P03-P04.DWG

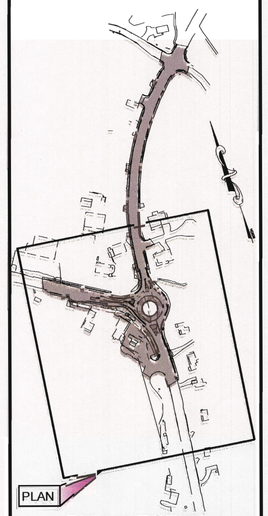
PREPARED BY: USKH
BILL PADDOCK

TAB: P3

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

DESIGNED BY: K. NORD

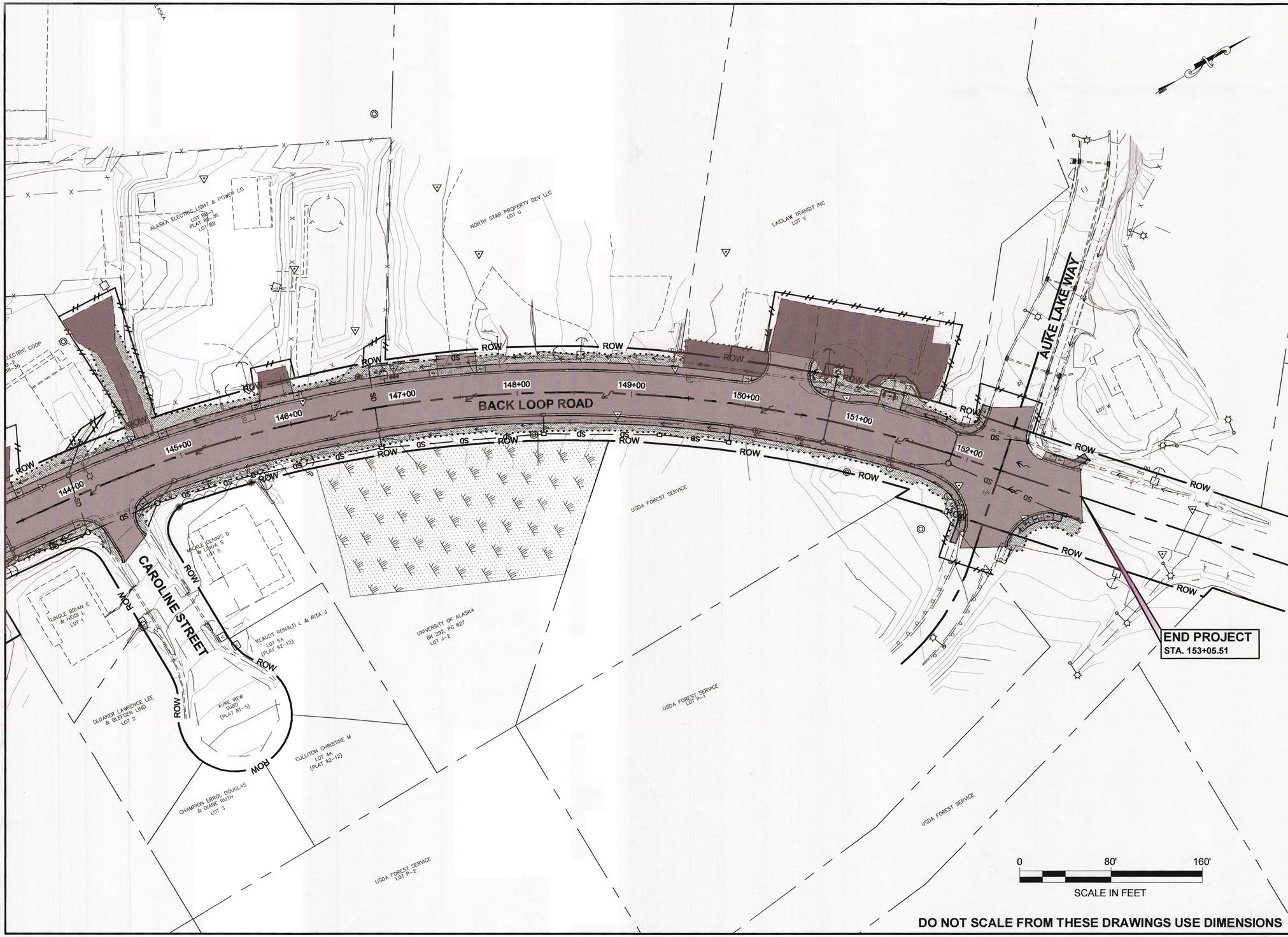
DRAWN BY: M. HIDALGO, C. PANNONE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

ESCP SOIL STABILIZATION PHASE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P3	82



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

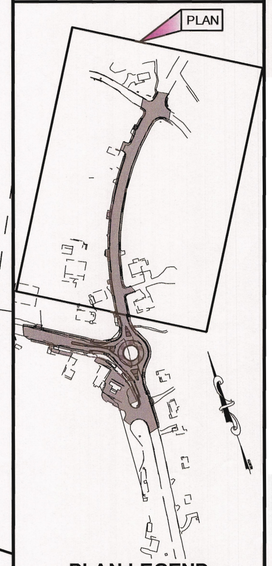
TAB: P4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

DESIGNED BY: K. NORD

DRAWN BY: M. HIDALGO, C. PANNONE

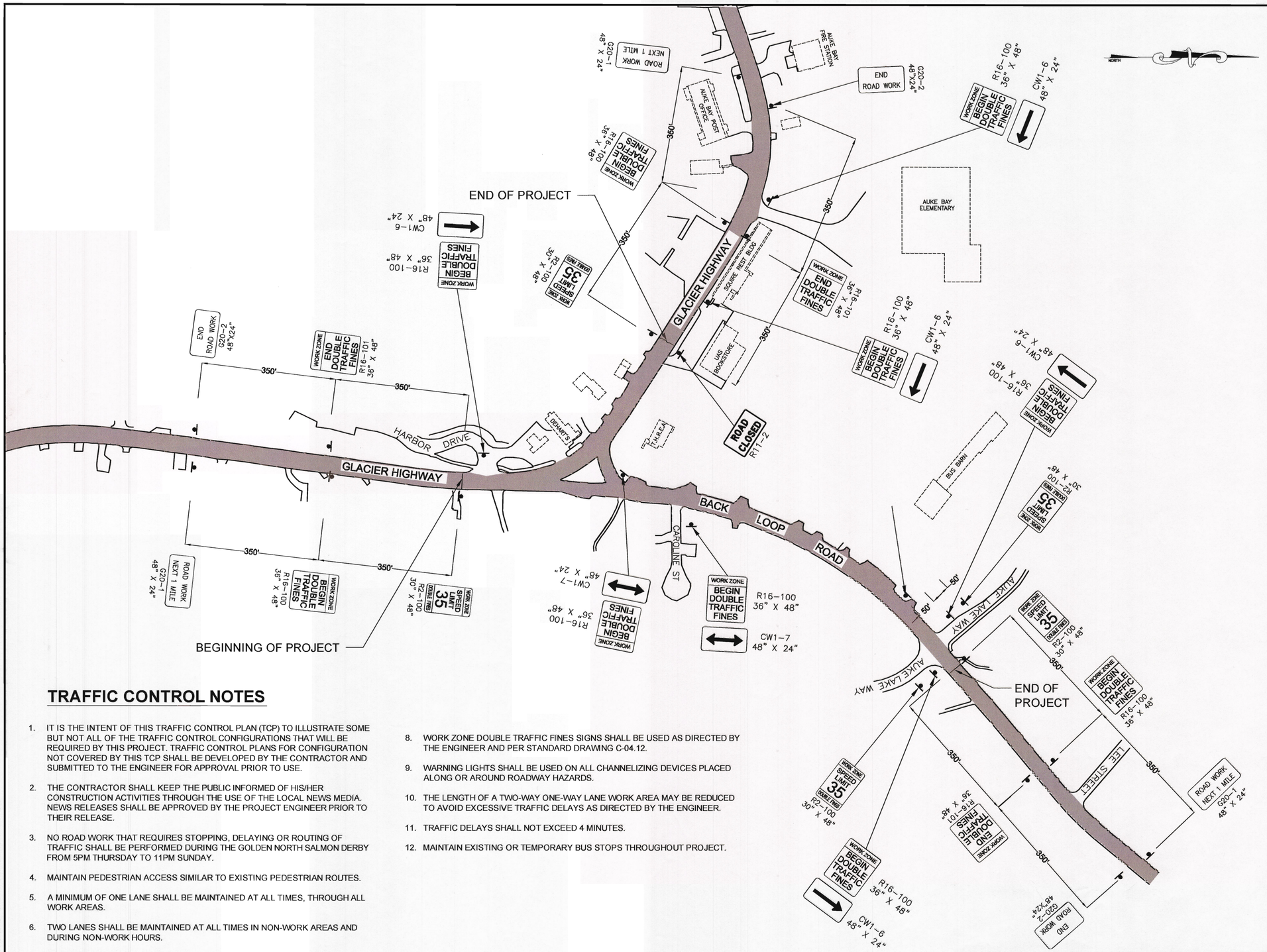
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

ESCP SOIL STABILIZATION PHASE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
P4	82

PATH: I:\1289500\DWGS\C\SHEETS\1289500 P03-P04.DWG



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. TRAFFIC CONTROL PLANS FOR CONFIGURATION NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS/HER CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE.
3. NO ROAD WORK THAT REQUIRES STOPPING, DELAYING OR ROUTING OF TRAFFIC SHALL BE PERFORMED DURING THE GOLDEN NORTH SALMON DERBY FROM 5PM THURSDAY TO 11PM SUNDAY.
4. MAINTAIN PEDESTRIAN ACCESS SIMILAR TO EXISTING PEDESTRIAN ROUTES.
5. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
6. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORK HOURS.
7. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
8. WORK ZONE DOUBLE TRAFFIC FINES SIGNS SHALL BE USED AS DIRECTED BY THE ENGINEER AND PER STANDARD DRAWING C-04.12.
9. WARNING LIGHTS SHALL BE USED ON ALL CHANNELIZING DEVICES PLACED ALONG OR AROUND ROADWAY HAZARDS.
10. THE LENGTH OF A TWO-WAY ONE-WAY LANE WORK AREA MAY BE REDUCED TO AVOID EXCESSIVE TRAFFIC DELAYS AS DIRECTED BY THE ENGINEER.
11. TRAFFIC DELAYS SHALL NOT EXCEED 4 MINUTES.
12. MAINTAIN EXISTING OR TEMPORARY BUS STOPS THROUGHOUT PROJECT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:\51289500\DWGS\CISHEETS\1289500 T01-T02.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **T01**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: K. MATTSON

DRAWN BY: M. HILDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

TRAFFIC CONTROL PLAN PERMANENT CONSTRUCTION SIGNS

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
T1	82

Legend

- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION

FORMULAS FOR L (TAPER LENGTH)

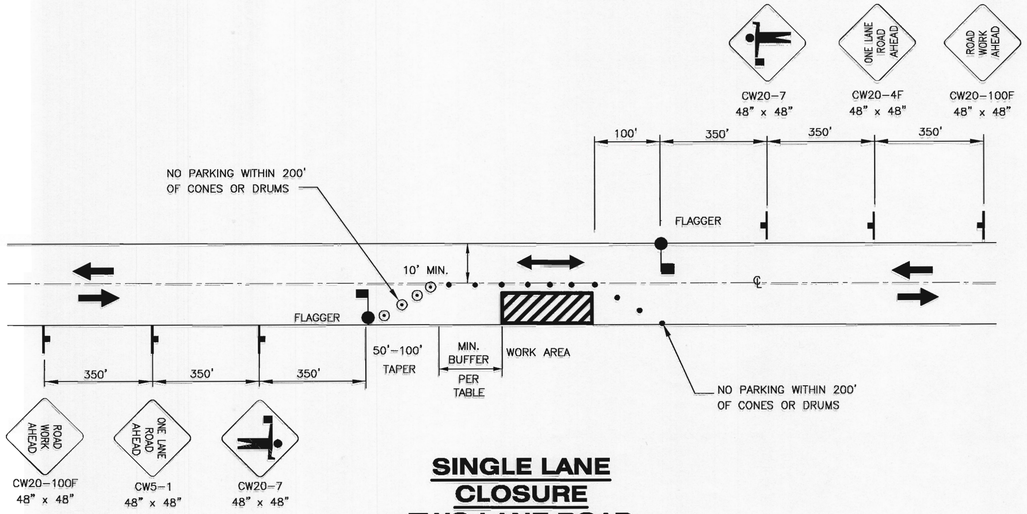
40 MPH OR LESS $L = \frac{W \times S^2}{60}$

45 MPH OR GREATER $L = W \times S$

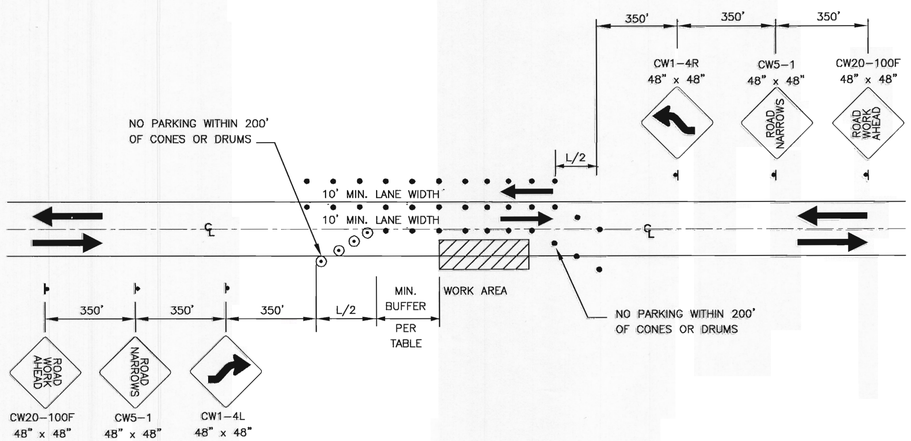
WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT

TCP SETUP TABLE

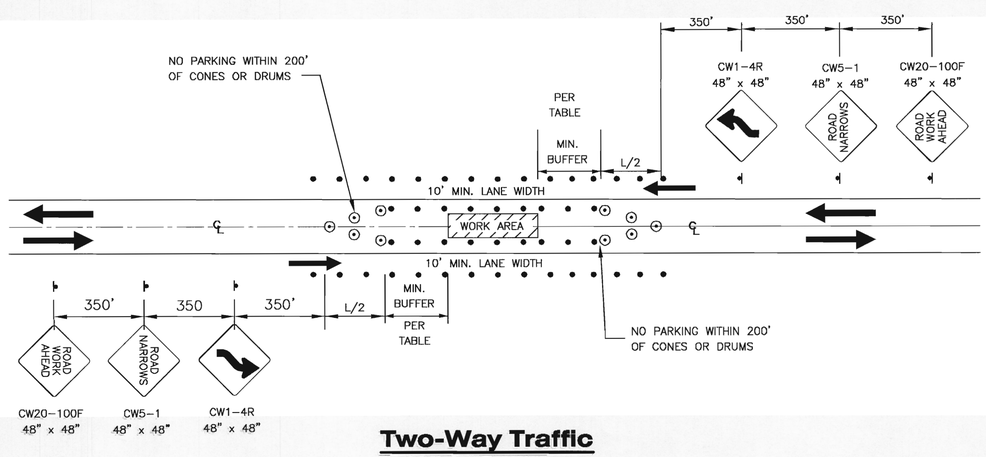
SPEED (MPH)	MIN MERGING TAPER LENGTH (L) IN FEET WIDTH OF OFFSET (W) IN FEET			MIN NUMBER OF DEVICES WIDTH OF OFFSET (W) IN FEET			MAX DEVICE SPACING IN FEET		BUFFER SPACE
	10'	11'	12'	10'	11'	12'	ALONG TAPER	ALONG TANGENT	(FT)
25 OR BELOW	105	115	125	6	6	6	25	50	155
30	150	165	180	6	7	7	30	60	200
35	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



SINGLE LANE CLOSURE TWO LANE ROAD



Two-Way Traffic



Two-Way Traffic With Center Closure

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: T02

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
Nathan C. Leigh
CE-8388
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: K. MATTSON

DRAWN BY: M. HILDALGO, B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

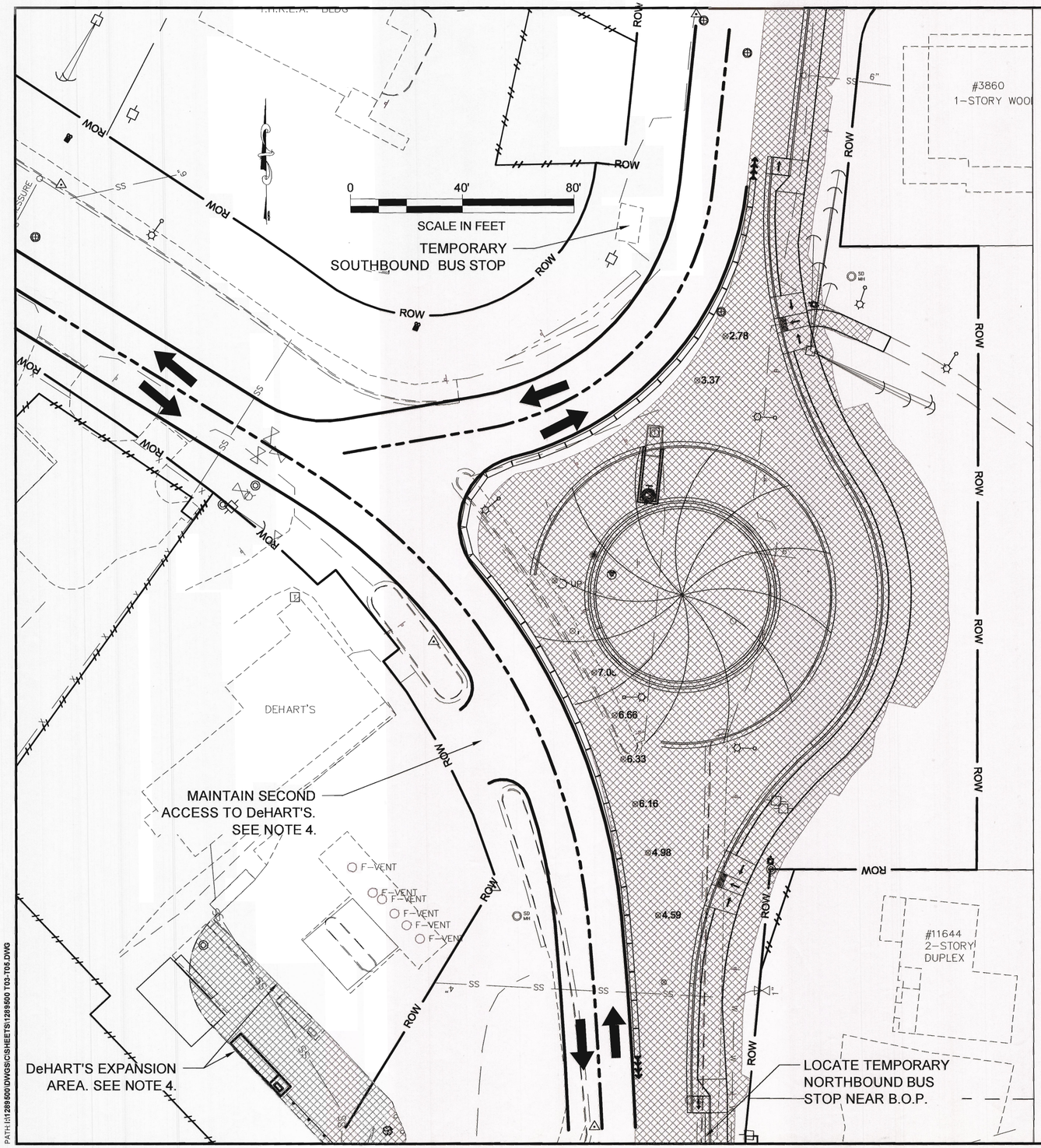
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

TRAFFIC CONTROL PLAN PERMANENT CONSTRUCTION SIGNS

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
T2	82

PATH:H:\129500\DWGS\SHEETS\129500 T01-T02.DWG



STAGE 1

1. CONSTRUCT NEW DRIVEWAY FOR DEEM'S RESIDENCE.
2. INSTALL APPROPRIATELY DIMENSIONED LANE SHIFT DIVERSIONS TO CREATE WORK LIMITS FOR STAGE 1 CONSTRUCTION.
3. DIVERT GLACIER HWY AND BACK LOOP TRAFFIC AS SHOWN.
4. MAINTAIN SECOND ACCESS TO DeHART'S UNTIL ACCESS EXPANSION AREA IS OPERATIONAL.
5. CONSTRUCT ITEMS AS STAGE 1 WORK LIMITS ALLOW:
   - MAINTAIN SECOND ACCESS TO DeHART'S UNTIL ACCESS EXPANSION AREA IS OPERATIONAL
   - DeHART'S ACCESS EXPANSION
   - TEMPORARY RETAINING STRUCTURES AS NEEDED TO PLACE EMBANKMENT.
   - ROUNDABOUT EMBANKMENT
   - UTILITY VAULT
   - STORM DRAIN - ROUNDABOUT
   - STORM DRAIN - BACK LOOP ROAD
   - CURB, GUTTER AND SIDEWALK FOR EAST SIDE OF ROUNDABOUT AND BACK LOOP ROAD
   - LIGHT POLE FOUNDATIONS & CONDUITS
   - REBUILD SEWER MANHOLES
   - SEWER SERVICE UNDER ROUNDABOUT

NOTE:

IT IS ANTICIPATED THAT MULTIPLE SHIFTS BETWEEN STAGES 1, 2, 3 WITH BE REQUIRED TO CONSTRUCT FULL HEIGHT OF EMBANKMENT.

LEGEND

- PORTABLE CONC. BARRIER
- TEMPORARY CRASH CUSHION
- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- ⊠7.62 SPOT ELEVATION DIFFERENCE EG TO FG
- TEMPORARY CL
- TEMPORARY EDGE OF LANE
- TEMPORARY TRAFFIC FLOW
- CONSTRUCTION AREA

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **T3**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan Leigh Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK, C. HAKARI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

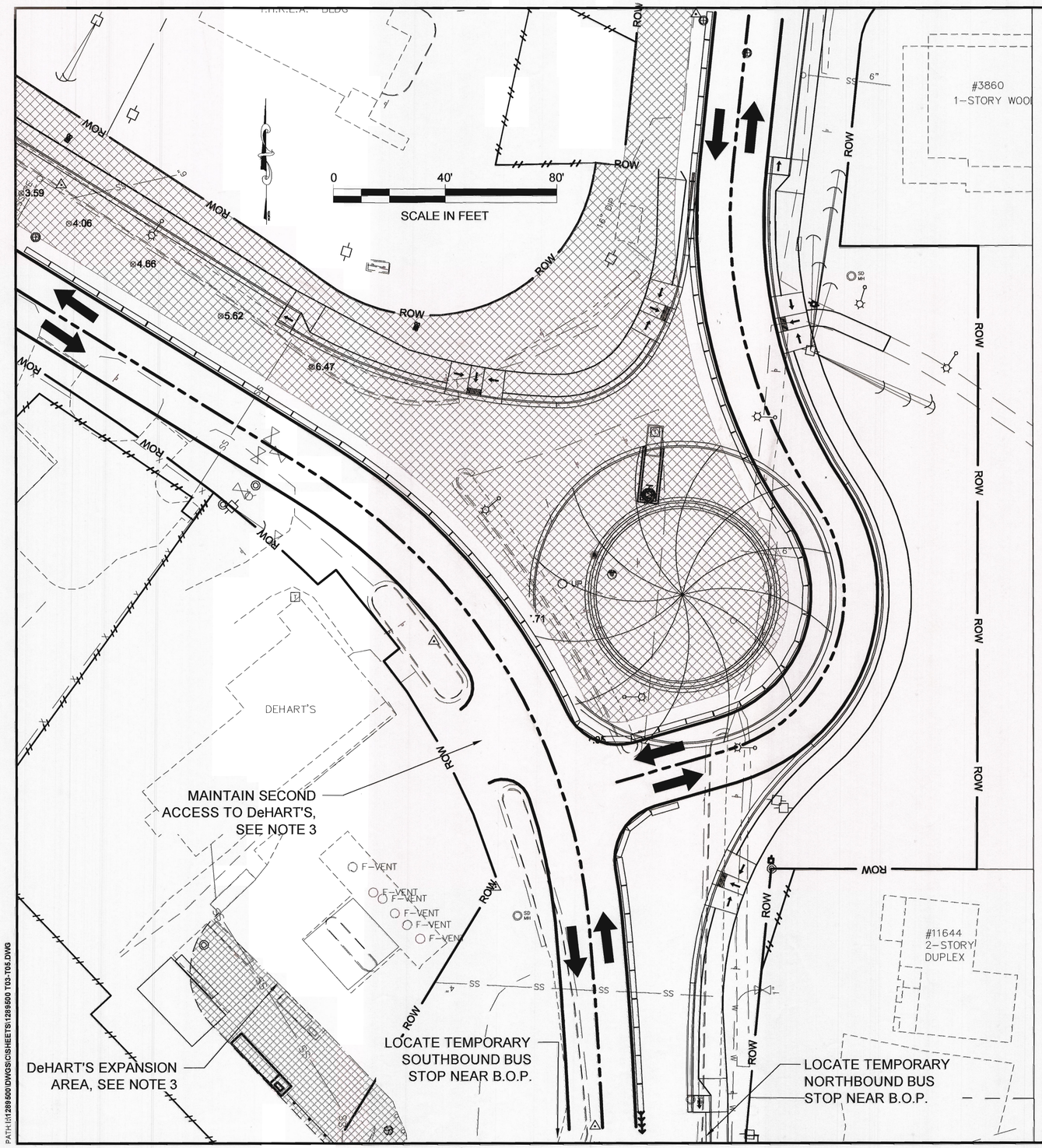
TRAFFIC CONTROL PLAN ROUNDABOUT STAGE 1

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
T3	**82**

PATH:I:\f289500\DWGS\C\SHEETS\1289500 T03-T06.DWG



STAGE 2

1. INSTALL APPROPRIATELY DIMENSIONED LANE SHIFT DIVERSIONS TO CREATE WORK LIMITS FOR STAGE 1 CONSTRUCTION.
2. DIVERT GLACIER HWY AND BACK LOOP TRAFFIC AS SHOWN.
3. MAINTAIN SECOND ACCESS TO DeHART'S UNTIL ACCESS EXPANSION AREA IS OPERATIONAL.
4. CONSTRUCT ITEMS AS STAGE 2 WORK LIMITS ALLOW:
   - REMOVE EXISTING PAVEMENT, SIDEWALK, STRUCTURES AND OBSTRUCTIONS
   - EMBANKMENT
   - STORM DRAIN
   - SHUT BACK LOOP WATER MAIN OFF
   - TIE INTO BACK LOOP WATER MAIN
   - BRING EXISTING BACK LOOP ROAD WATER MAIN BACK ON-LINE
   - WATER LINE - BACK LOOP ROAD TO STAGE 2 LIMITS & CAP
   - LIGHT POLE FOUNDATIONS & CONDUITS
   - CURB & GUTTER AND SIDEWALK FOR NORTH SIDE OF GLACIER HIGHWAY. CONSTRUCT NEW ROADWAY OF SUFFICIENT WIDTH FOR TWO TRAFFIC LANES IN STAGE 3.
   - ROUNDABOUT NORTH CURB LINE AND TRUCK APRON
   - SPLITTER ISLANDS FOR BACK LOOP ROAD.
   - CONSTRUCT TRUCK APRON, AND CIRCULAR ROADWAY TO THE EXTENT ALLOWED BY STAGE 2 WORK LIMITS.

LEGEND

- ..... PORTABLE CONC. BARRIER
- ..... TEMPORARY CRASH CUSHION
- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION
- ⊠7.62 ..... SPOT ELEVATION DIFFERENCE EG TO FG
- ..... TEMPORARY CL
- ..... TEMPORARY EDGE OF LANE
- ..... TEMPORARY TRAFFIC FLOW
- ..... CONSTRUCTION AREA

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **T4**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KRAEMER

DRAWN BY: B. PADDOCK, C. HAKARI

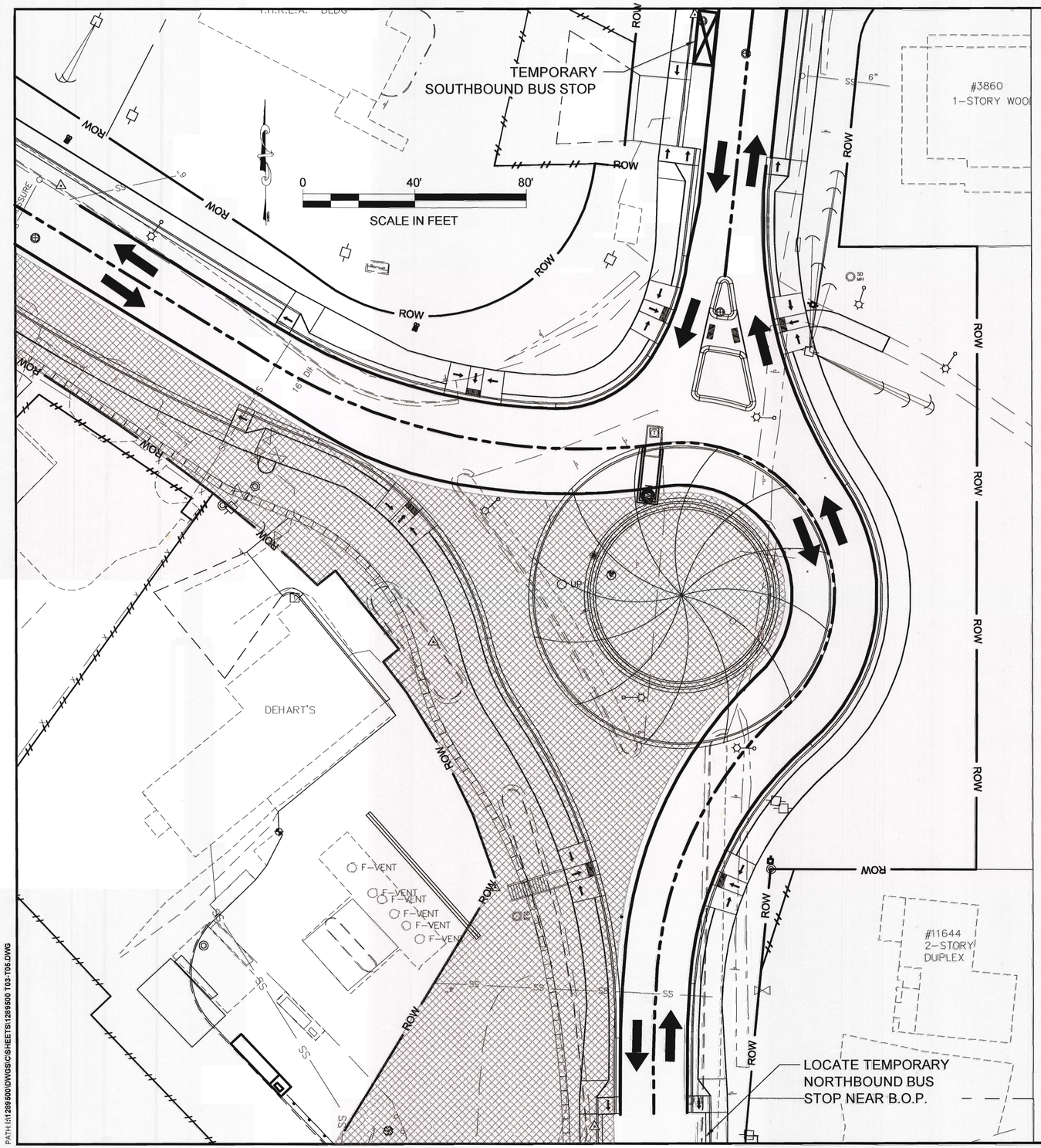
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

TRAFFIC CONTROL PLAN ROUNDABOUT STAGE 2

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
T4	**82**

PATH: I:\1289500\DWGS\CIS\SHEETS\1289500 T03-T05.DWG



STAGE 3

1. OPEN BACK LOOP ROAD. ROUTE TRAFFIC AROUND NORTHEAST SIDE OF ROUNDABOUT.
2. CLOSE SECOND ACCESS TO DeHART'S.
3. CONSTRUCT ITEMS AS STAGE 3 WORK LIMITS ALLOW:
   - SHUT GLACIER HIGHWAY WATER MAIN OFF
   - TIE INTO GLACIER HIGHWAY WATER MAIN
   - BRING EXISTING GLACIER HIGHWAY WATER MAIN BACK ON-LINE
   - CONSTRUCT ROUNDABOUT EMBANKMENT
   - GLACIER HIGHWAY WATER LINE
   - STORM DRAIN
   - LIGHT POLE FOUNDATIONS & CONDUITS
   - GRAVITY BLOCK WALL
   - DeHART'S LOT GRADING
   - DeHART'S LOT PAVING
   - ROUNDABOUT WEST CURBLINE & TRUCK APRON
   - WEST SIDEWALK, CURB & GUTTER
   - FINAL PAVING AND STRIPING

LEGEND

- PORTABLE CONC. BARRIER
- TEMPORARY CRASH CUSHION
- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- ⌀7.62 SPOT ELEVATION DIFFERENCE EG TO FG
- TEMPORARY CL
- TEMPORARY EDGE OF LANE
- TEMPORARY TRAFFIC FLOW
- CONSTRUCTION AREA

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\CIS\SHEETS\1289500 T03-T05.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: T5

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: R. KREAMER

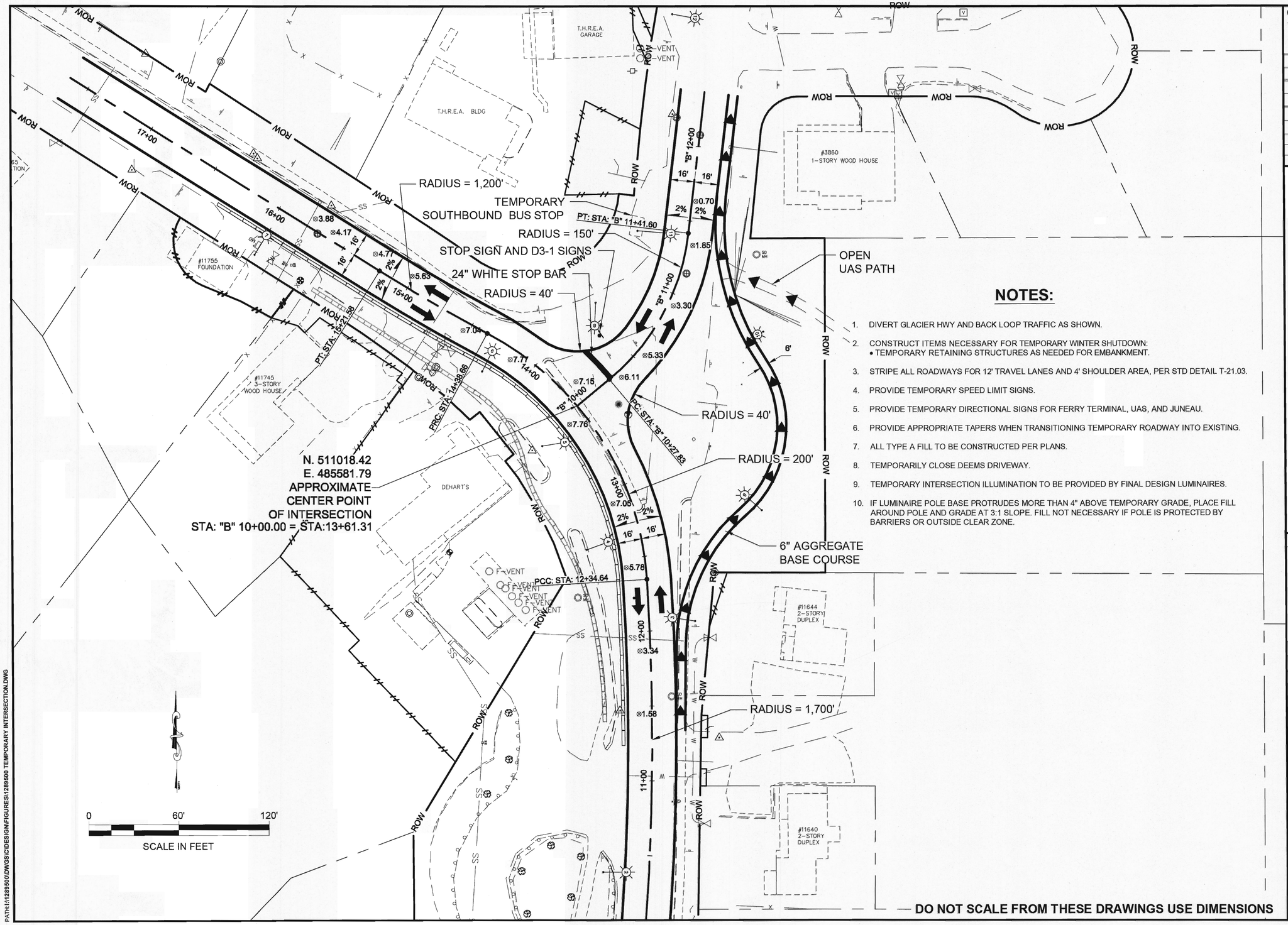
DRAWN BY: B. PADDOCK, C. HAKARI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

TRAFFIC CONTROL PLAN ROUNDABOUT STAGE 3

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
T5	82



NOTES:

1. DIVERT GLACIER HWY AND BACK LOOP TRAFFIC AS SHOWN.
2. CONSTRUCT ITEMS NECESSARY FOR TEMPORARY WINTER SHUTDOWN:
   • TEMPORARY RETAINING STRUCTURES AS NEEDED FOR EMBANKMENT.
3. STRIPE ALL ROADWAYS FOR 12' TRAVEL LANES AND 4' SHOULDER AREA, PER STD DETAIL T-21.03.
4. PROVIDE TEMPORARY SPEED LIMIT SIGNS.
5. PROVIDE TEMPORARY DIRECTIONAL SIGNS FOR FERRY TERMINAL, UAS, AND JUNEAU.
6. PROVIDE APPROPRIATE TAPERS WHEN TRANSITIONING TEMPORARY ROADWAY INTO EXISTING.
7. ALL TYPE A FILL TO BE CONSTRUCTED PER PLANS.
8. TEMPORARILY CLOSE DEEMS DRIVEWAY.
9. TEMPORARY INTERSECTION ILLUMINATION TO BE PROVIDED BY FINAL DESIGN LUMINAIRES.
10. IF LUMINAIRE POLE BASE PROTRUDES MORE THAN 4" ABOVE TEMPORARY GRADE, PLACE FILL AROUND POLE AND GRADE AT 3:1 SLOPE. FILL NOT NECESSARY IF POLE IS PROTECTED BY BARRIERS OR OUTSIDE CLEAR ZONE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:H:\1289500\DWGS\CIDESIGN\FIGURES\1289500 TEMPORARY INTERSECTION.DWG

PREPARED BY: USKH
JORDAN HALL

TAB: COVER

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: S. KARI

STATE OF ALASKA
49 TH
Leon R. Galbraith
Leon R.Galbraith
CE-12583
2/15/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. GALBRAITH

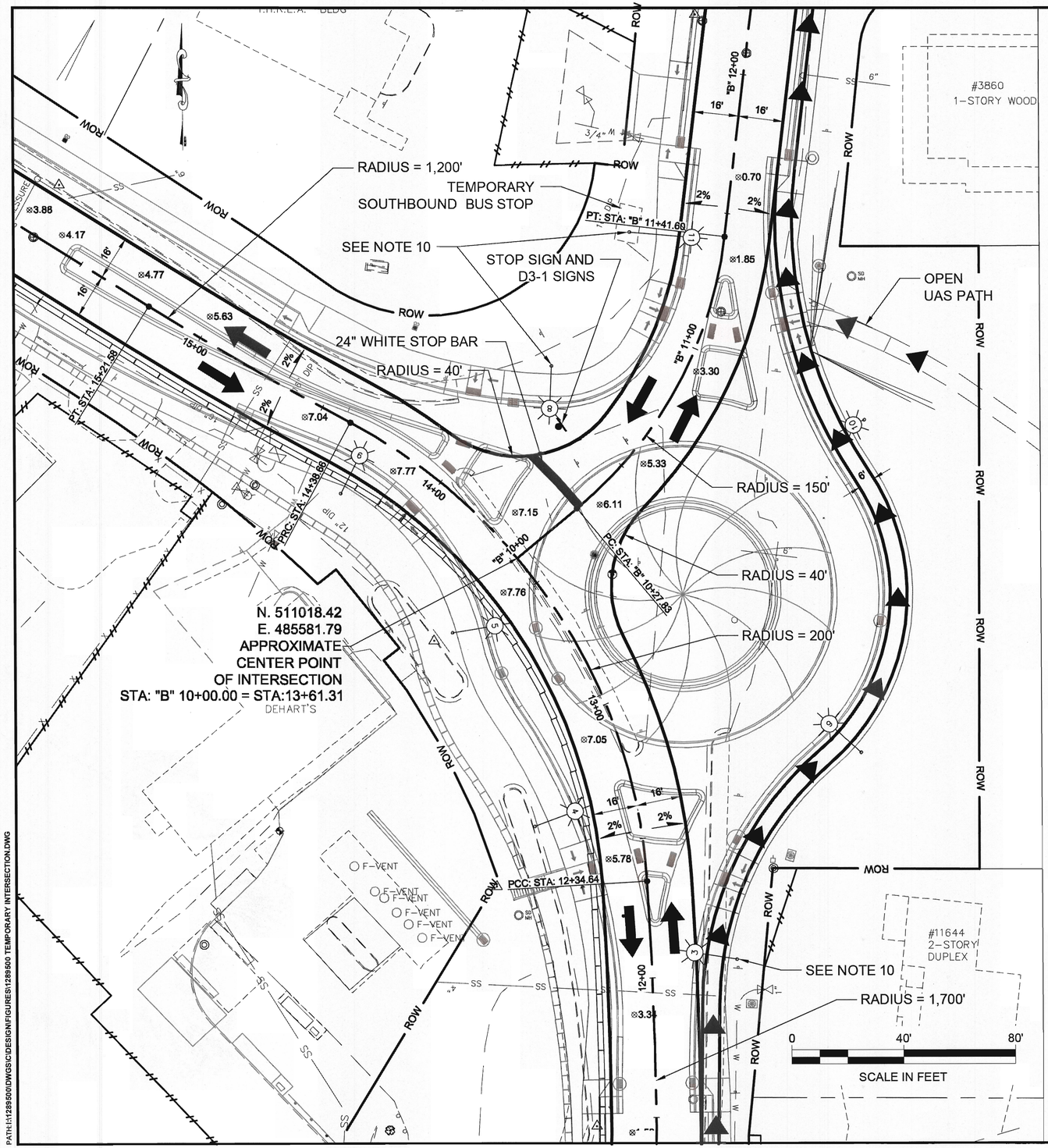
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY & BACK LOOP ROAD TEMPORARY INTERSECTION PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
T6	86



NOTES:

1. DIVERT GLACIER HWY AND BACK LOOP TRAFFIC AS SHOWN.
2. CONSTRUCT ITEMS NECESSARY FOR TEMPORARY WINTER SHUTDOWN:
   • TEMPORARY RETAINING STRUCTURES AS NEEDED FOR EMBANKMENT.
3. STRIPE ALL ROADWAYS FOR 12' TRAVEL LANES AND 4' SHOULDER AREA, PER STD DETAIL T-21.03.
4. PROVIDE TEMPORARY SPEED LIMIT SIGNS.
5. PROVIDE TEMPORARY DIRECTIONAL SIGNS FOR FERRY TERMINAL, UAS, AND JUNEAU.
6. PROVIDE APPROPRIATE TAPERS WHEN TRANSITIONING TEMPORARY ROADWAY INTO EXISTING.
7. ALL TYPE A FILL TO BE CONSTRUCTED PER PLANS.
8. TEMPORARILY CLOSE DEEMS DRIVEWAY.
9. TEMPORARY INTERSECTION ILLUMINATION TO BE PROVIDED BY FINAL DESIGN LUMINAIRES.
10. IF LUMINAIRE POLE BASE PROTRUDES MORE THAN 4" ABOVE TEMPORARY GRADE, PLACE FILL AROUND POLE AND GRADE AT 3:1 SLOPE. FILL NOT NECESSARY IF POLE IS PROTECTED BY BARRIERS OR OUTSIDE CLEAR ZONE.

TEMP SIGNS:

Glacier Hwy
36" x 8"

Mendenhall Loop Rd
54" x 8"

STOP
36" x 36"

LEGEND:

- ..... PORTABLE CONC. BARRIER
- ..... SIGN
- ⊗7.62 ..... SPOT ELEVATION DIFFERENCE EG TO FG
- ..... TEMPORARY CL
- ..... TEMPORARY EDGE OF PAVEMENT
- ..... TEMPORARY TRAFFIC FLOW
- ..... PEDESTRIAN DETOUR

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:I:\1289500\DWGS\CIDESIGN\FIGURES\1289500 TEMPORARY INTERSECTION.DWG

PREPARED BY: USKH
JORDAN HALL

TAB: PLAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: S. KARI

STATE OF ALASKA
49 TH
Leon R. Galbraith
CE-12583
10/15/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. GALBRAITH

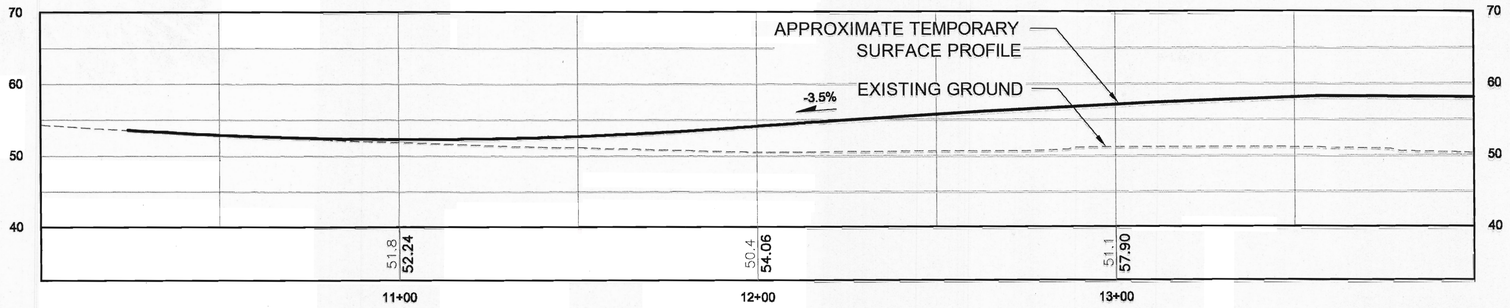
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

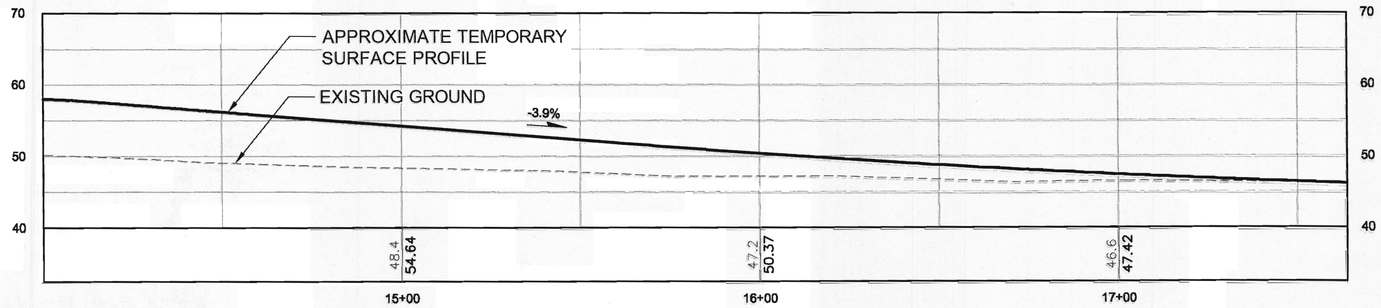
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY & BACK LOOP ROAD TEMPORARY INTERSECTION PLAN

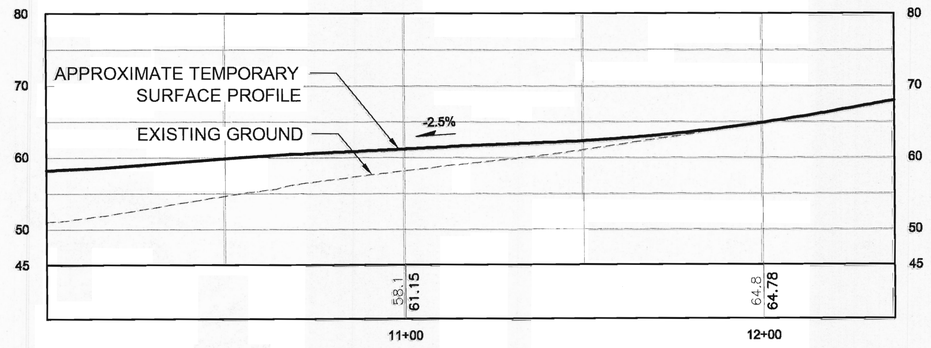
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
T7	86



GLACIER HIGHWAY-Temporary (STA 10+00 TO 14+00)



GLACIER HIGHWAY-Temporary (STA 14+00 TO 17+63.60)



BACK LOOP-Temporary (STA "B" 10+00 TO "B" 12+36.45)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
JORDAN HALL

TAB: PROFILES

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: S. KARI

STATE OF ALASKA
49 TH
Leon R. Galbraith
CE-12583
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: L. GALBRAITH

DRAWN BY: B. PADDOCK

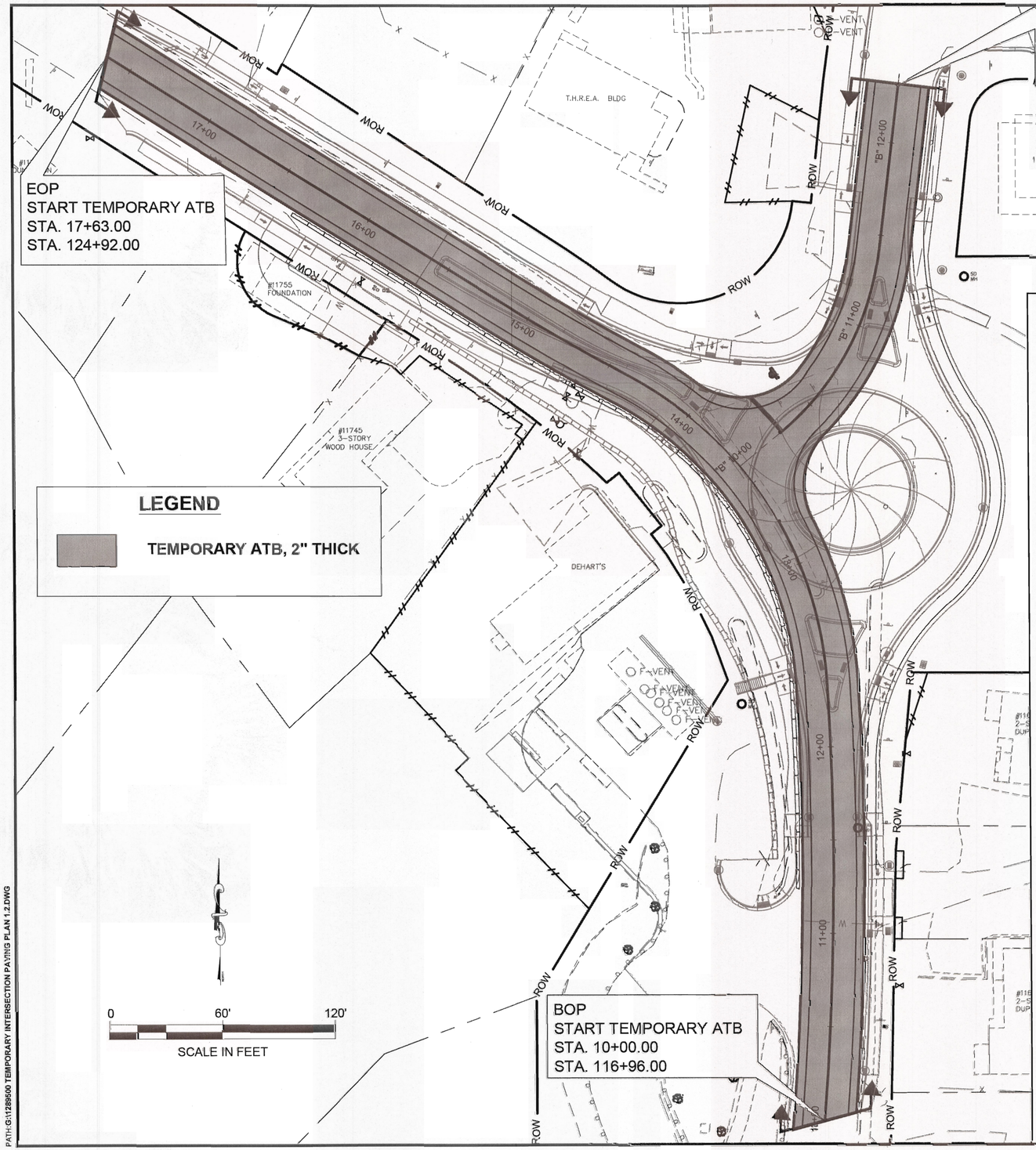
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY & BACK LOOP ROAD TEMPORARY INTERSECTION PROFILES

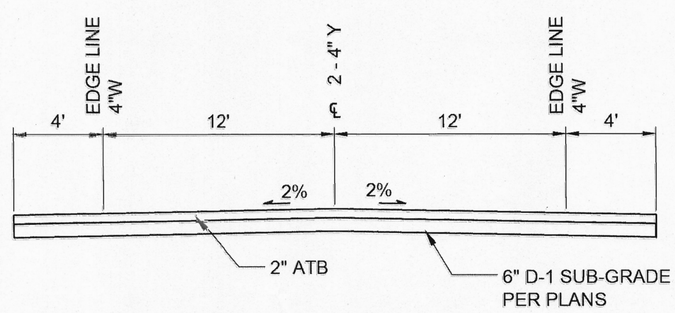
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
T8	86

PATH:I:\128850\DWGS\CIDESIGN\FIGURES\128850 TEMPORARY INTERSECTION.DWG

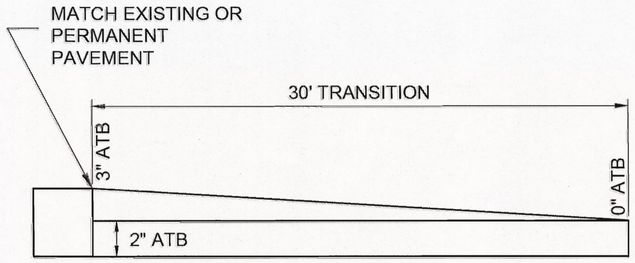


NOTES:

1. INSTALL PORTABLE CONCRETE BARRIERS PER SHEET T7 OR AS DIRECTED BY THE ENGINEER.
2. TEMPORARY ATB TO BE REMOVED FOLLOWING WINTER SHUTDOWN.
3. ESTIMATED AMOUNT OF TEMPORARY ATB IS 450 TONS.
4. BORROW FILL FOR ENTIRE ROUNDABOUT, GLACIER HIGHWAY AND BACK LOOP ROAD TO BE PLACED PER ORIGINAL PLANS.
5. D-1 FOR TEMPORARY ROADWAY TO BE PLACED PER ORIGINAL PLANS.
6. ADJUSTMENT OF STORM DRAIN STRUCTURES TO OR BELOW GRADE AND CONSTRUCTION OF TEMPORARY DRAINAGE MEASURES, SHALL BE AS DIRECTED BY THE ENGINEER.



TEMPORARY ROADWAY TYPICAL
(NTS)



TEMPORARY PAVEMENT TRANSITION
(NTS)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: AK DOT&PF
CONSTRUCTION
TAB:

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: G. GLADSJO

DESIGNED BY: G. GLADSJO

DRAWN BY: R. SORIANO

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

GLACIER HIGHWAY & BACK LOOP ROAD TEMPORARY INTERSECTION PLAN

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
T9	**86**

PATH: G:\1289500 TEMPORARY INTERSECTION PAVING PLAN 1.2.DWG

HARBOR DRIVE

PROPOSED WATER MAIN, SEE SHEETS U15-U20

SEE SHEET U15 FOR REVISED TIE-IN

GLACIER HIGHWAY

117+00

118+00

119+00

TEMPORARY CONNECTION TO EXISTING 18" STORM DRAIN PIPE

P-200 DELETED

PROFILE MATCH LINE

S-10 S-11 S-12 S-13 S-14 S-15 S-43

P-10 P-11 P-12 P-13 P-14 P-15 P-16 P-40 P-41 P-43 P-54 P-55

ROW

STA:117+47.00, OFF:28.15'R CLEANOUT WITH GRATE

UNDERDRAIN, SEE DETAIL SHEET E6

3" Cu

8" PVC SEWER LINE

NOTE: UNDERDRAIN MITERED INTO EAST SIDE OF STRUCTURE #3 VIA 6" 90° FITING

0 20' 40'

SCALE IN FEET

60

50

FINISHED GRADE OVER STORM DRAIN

EXISTING GROUND

EXISTING SANITARY SEWER

EXISTING STORM DRAIN

EXISTING STORM DRAIN

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:I:\1289.500\DWGS\CSHEETS\1289500 U01-U14.DWG

PREPARED BY: USKH

BILL PADDOCK

TAB: U1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH Nathan C. Leigh CE-8386 4/3/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013

SHEET NUMBER	TOTAL SHEETS
U1	82

GLACIER HIGHWAY

120+00 141+70 142+00 143+00

BACK LOOP ROAD

PROFILE MATCH LINE

PROFILE MATCH LINE

S-15 P-15 P-16 S-55 S-16 P-17 P-60 S-61 P-61 S-17 P-62 P-63 S-63 P-64 P-18 S-18

ROW

UNDERDRAIN DELETED

UNDERDRAIN CLEANOUT WITH GRATE STA: 142+62, 93.2 RT

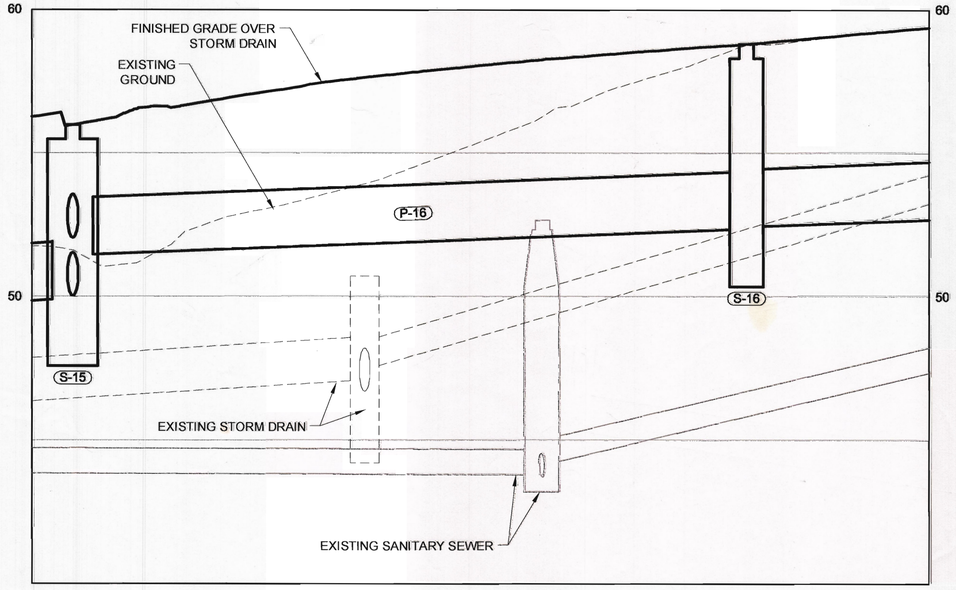
UNDERDRAIN, SEE DETAIL SHEET E6

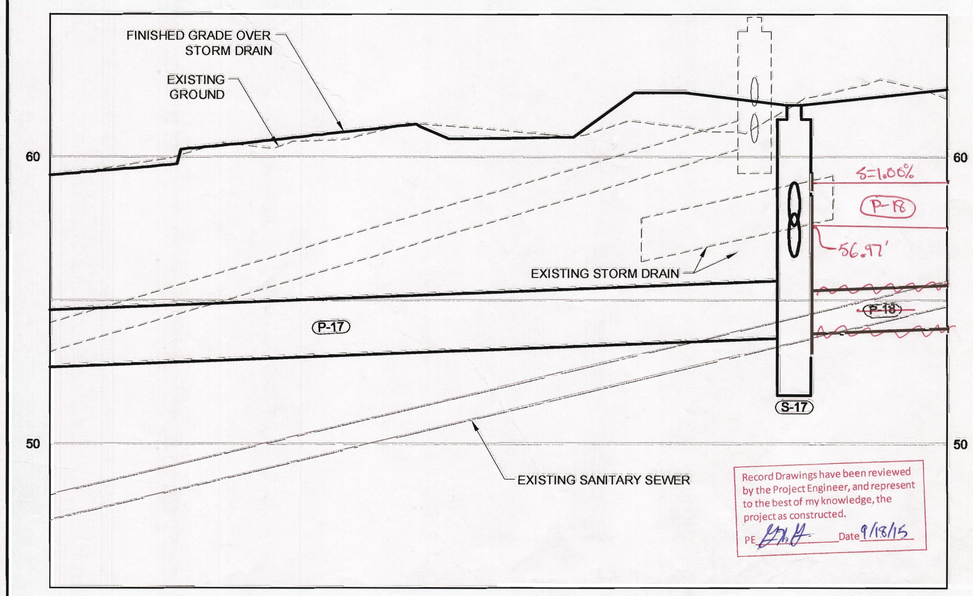
0 20' 40'

SCALE IN FEET

PLAN

PLAN LEGEND





Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE: Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: U2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION

69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U2	82

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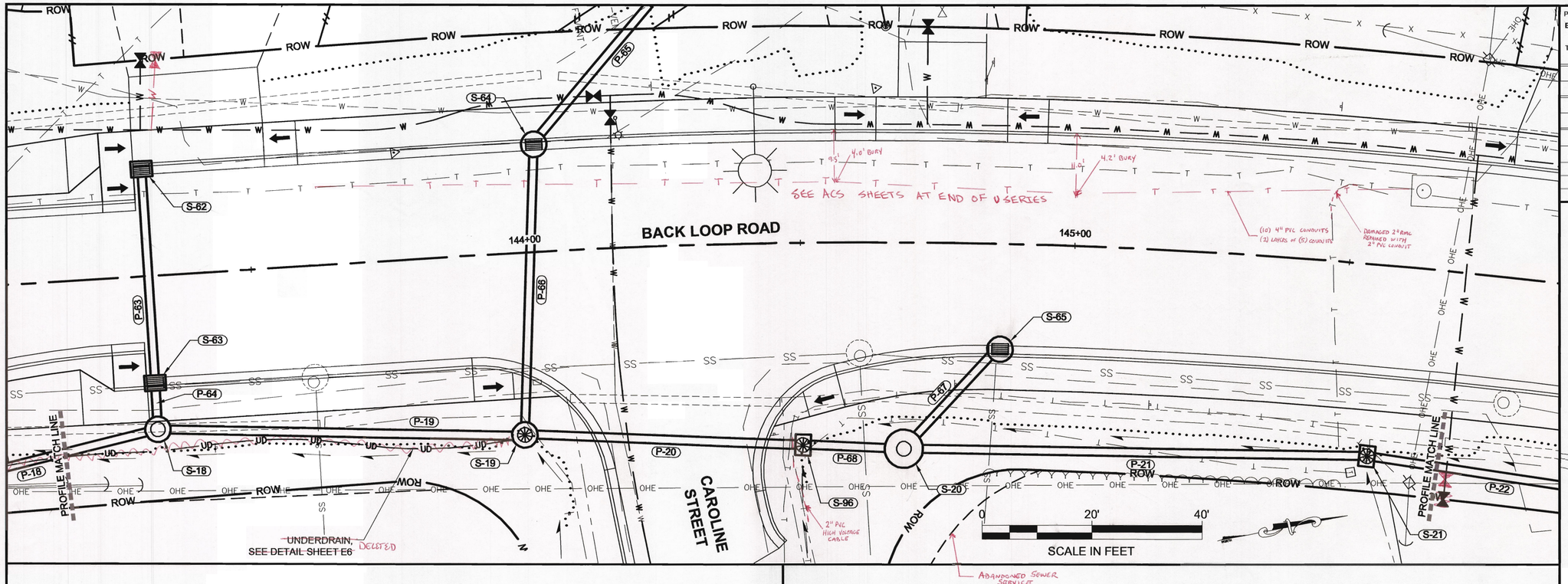

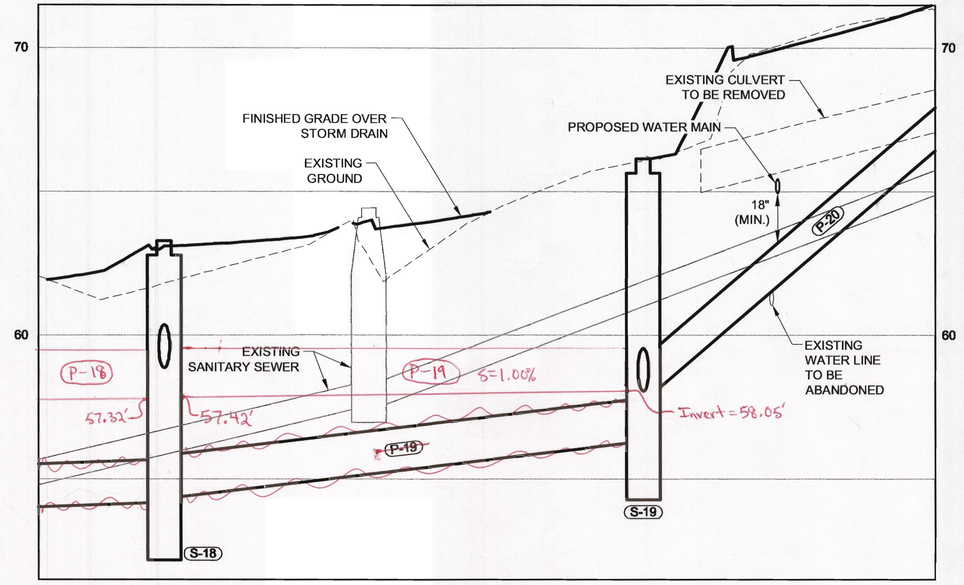

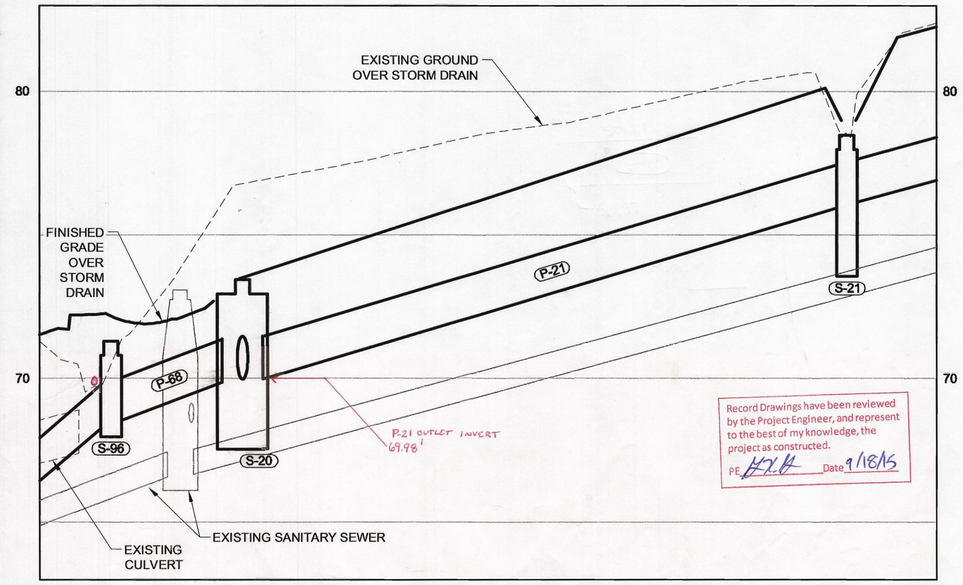

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **U3**

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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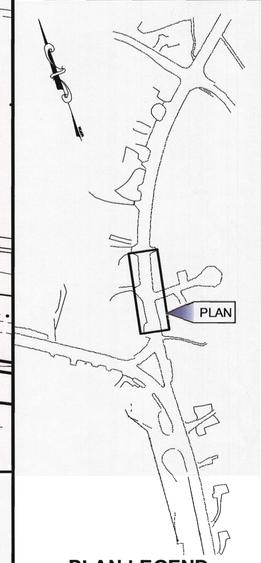

PLAN LEGEND

CHECKED BY: N. LEIGH

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
U3	**82**

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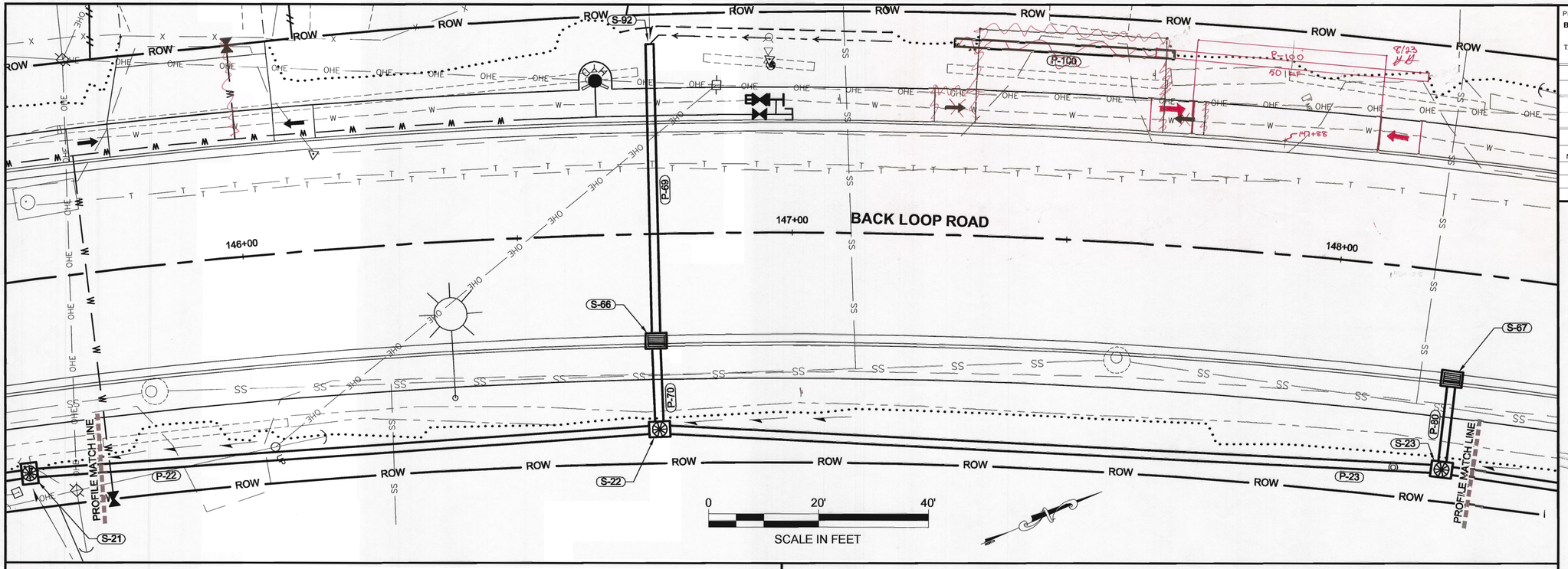

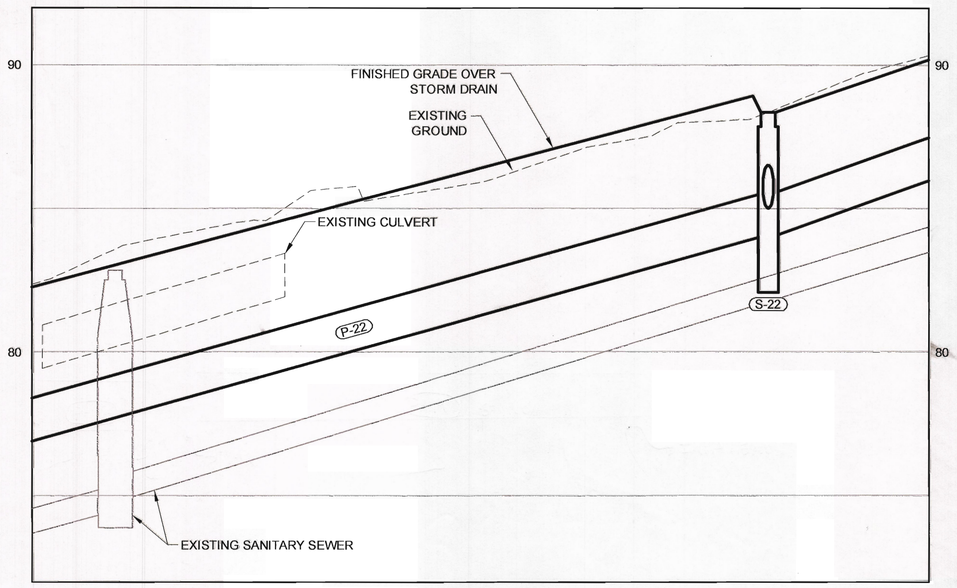

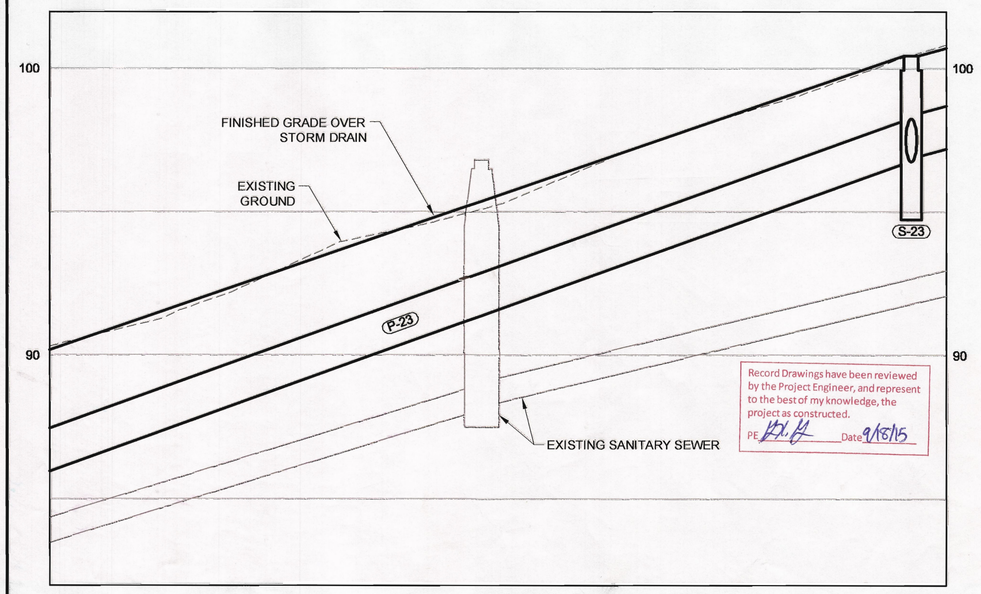

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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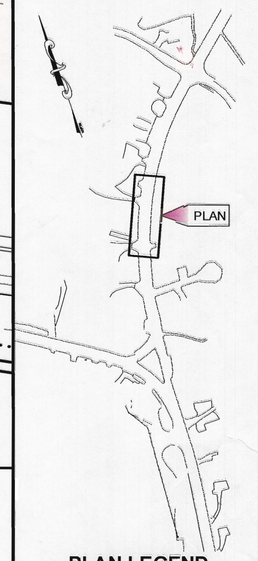


PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

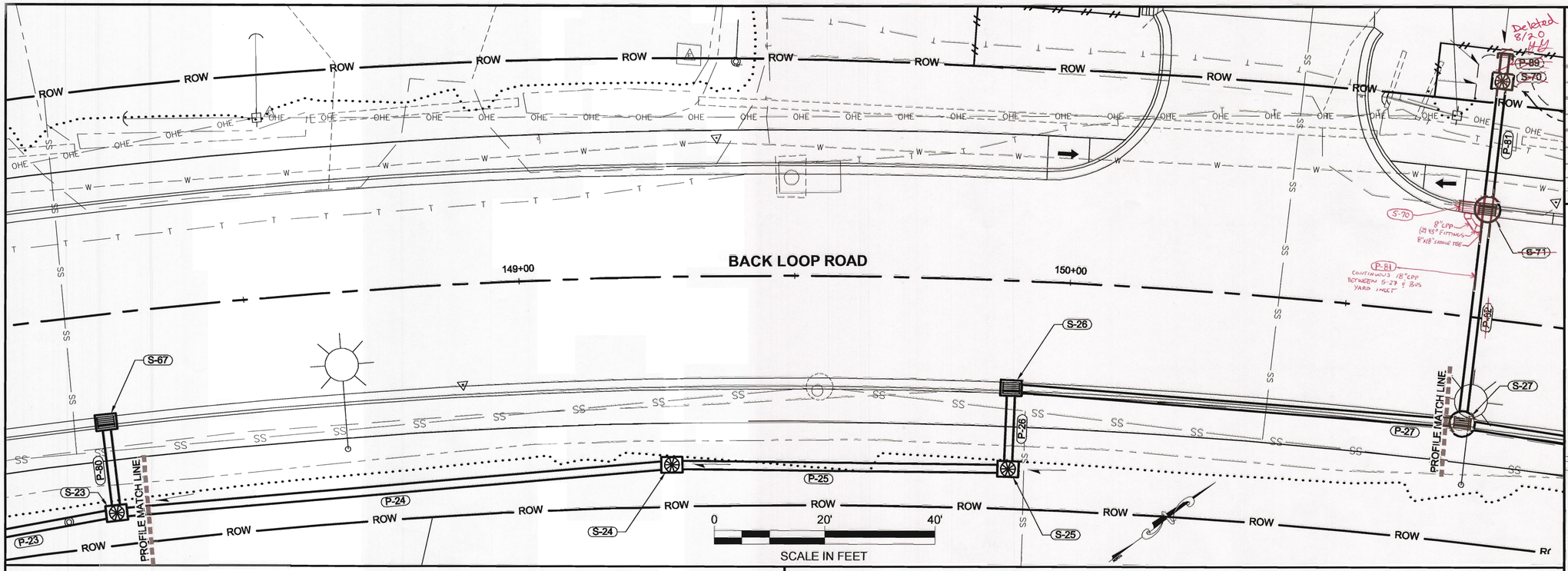
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

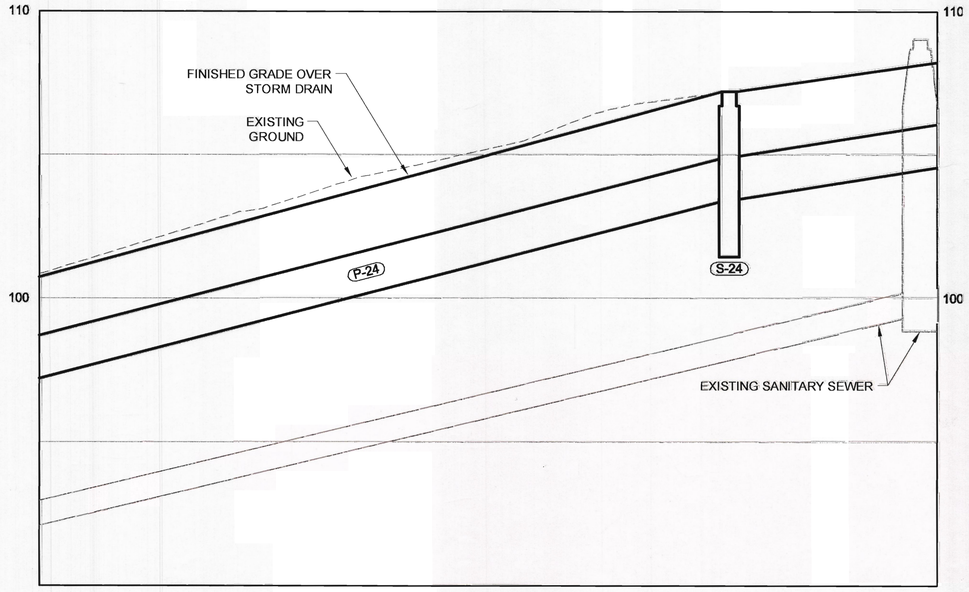
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

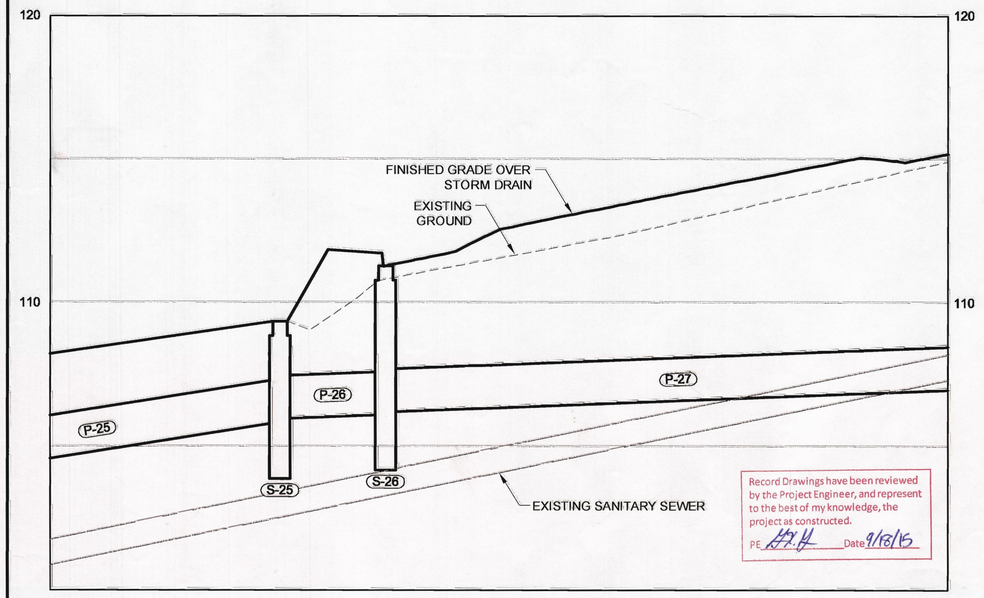
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 9/18/15

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U4	82







Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE NY Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **U5**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

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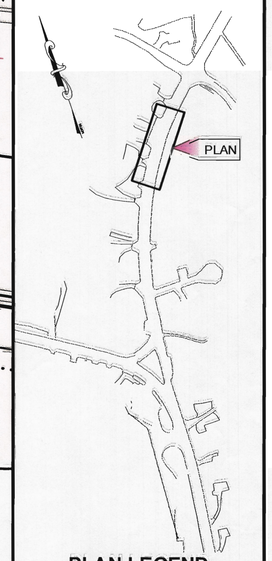

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/29/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U5	82

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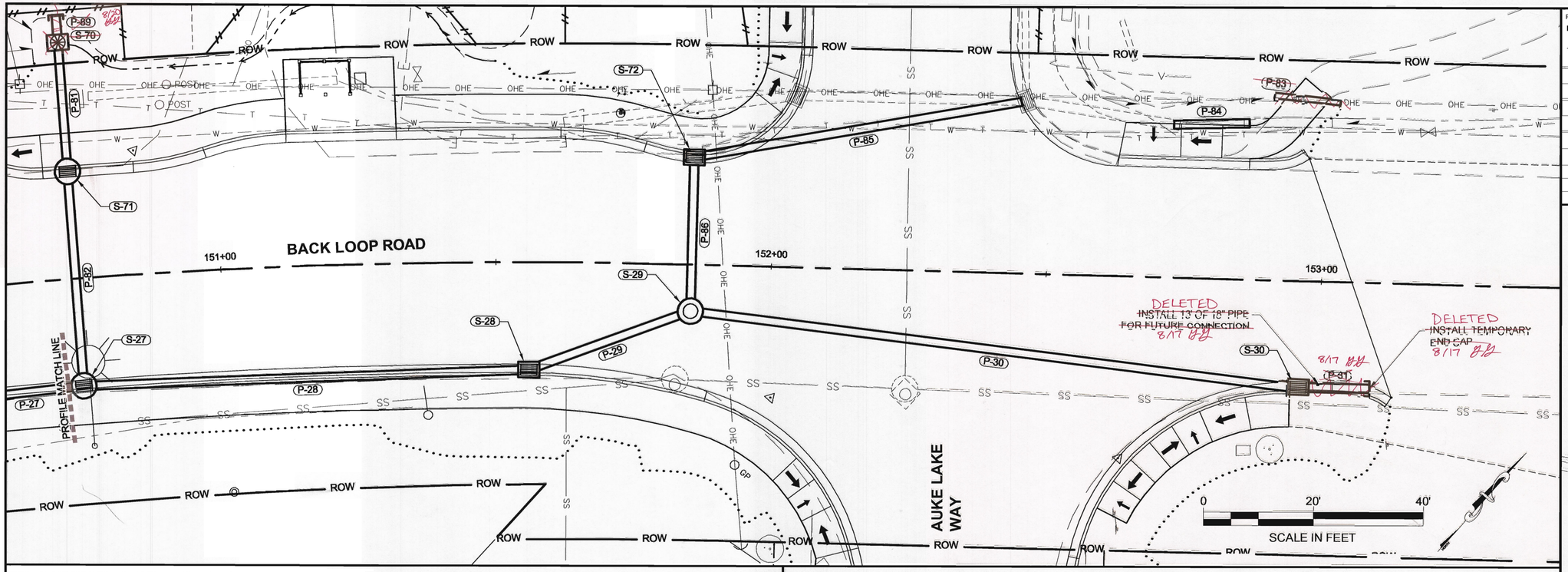
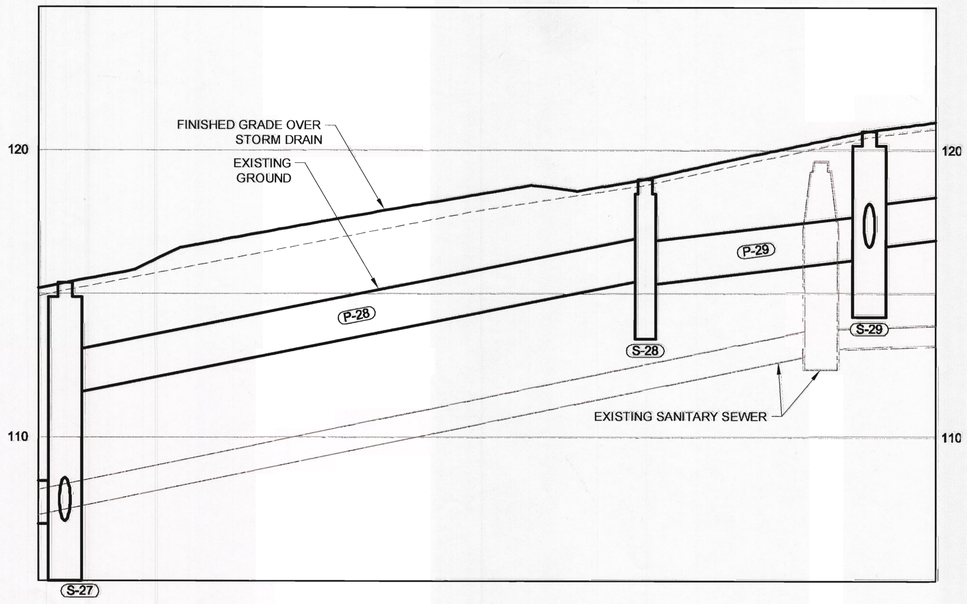
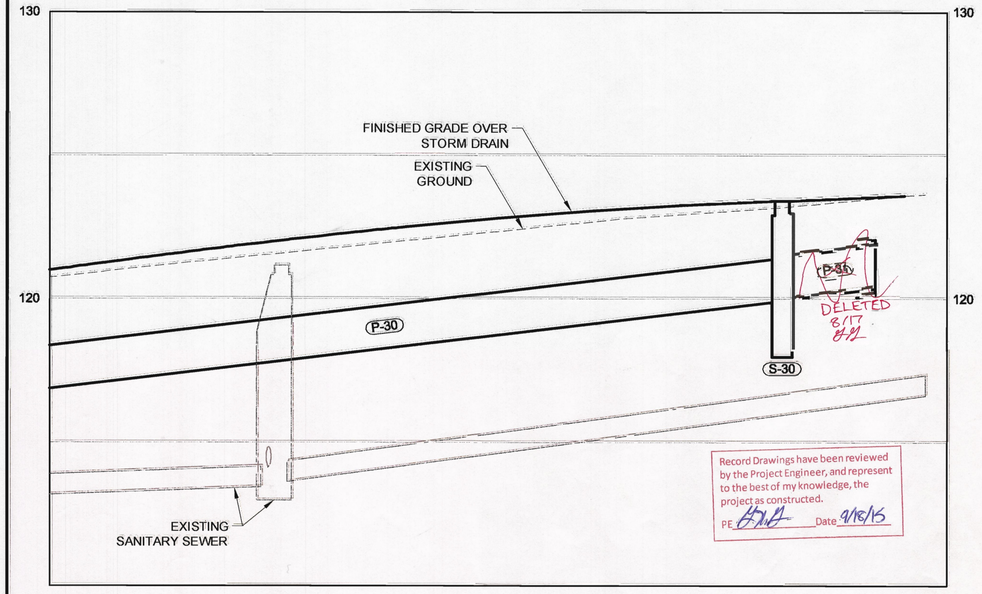






DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

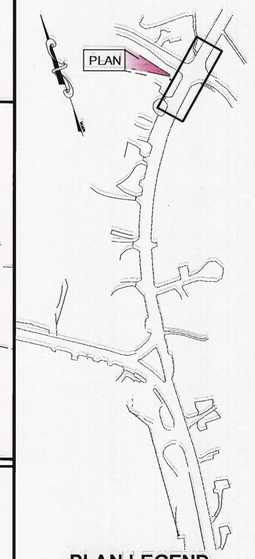
TAB: U6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/29/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U6	82

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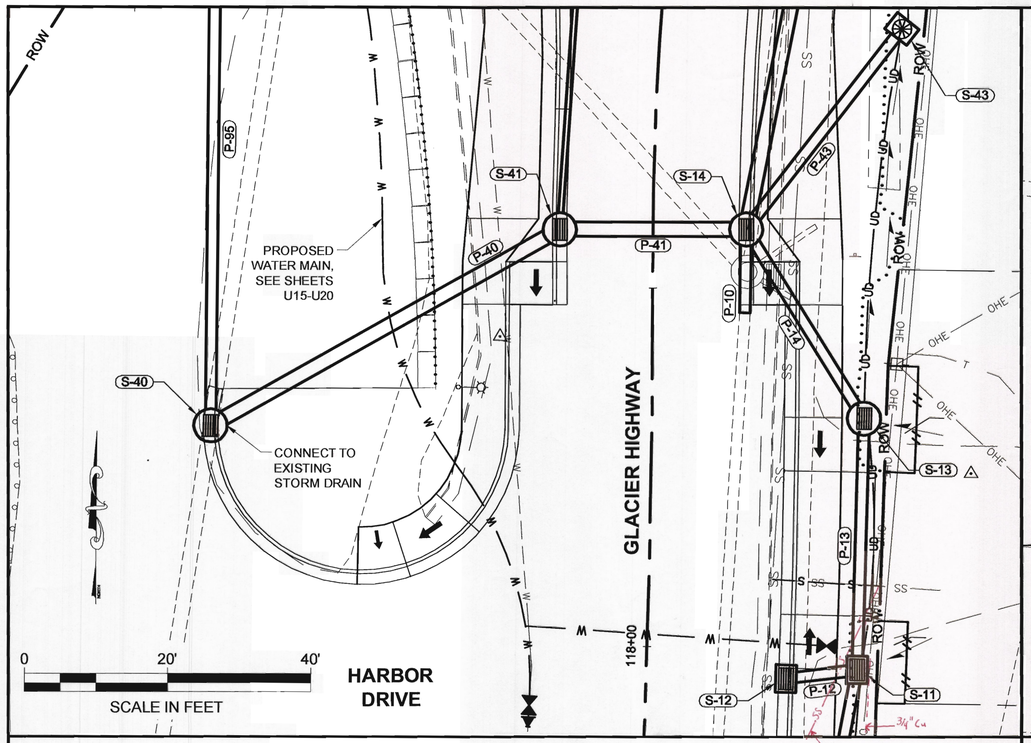

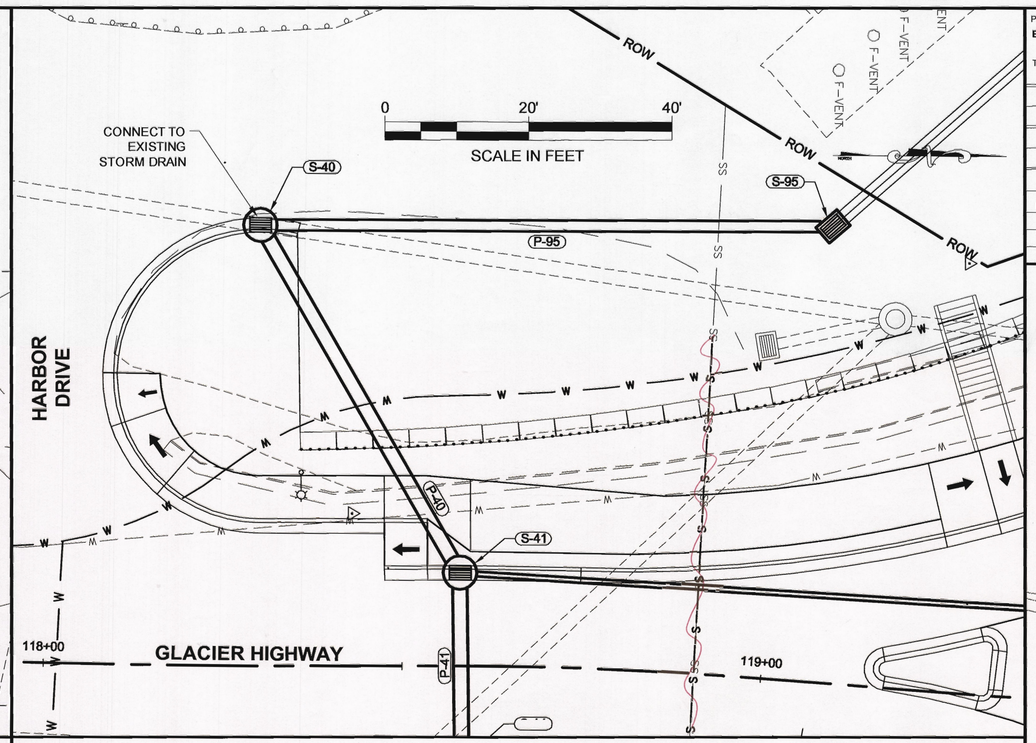

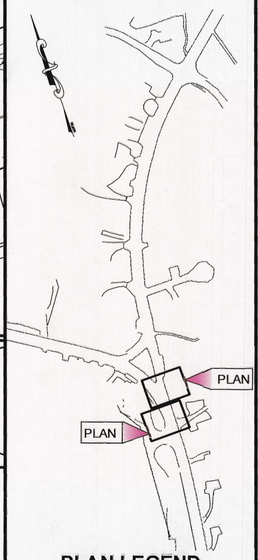

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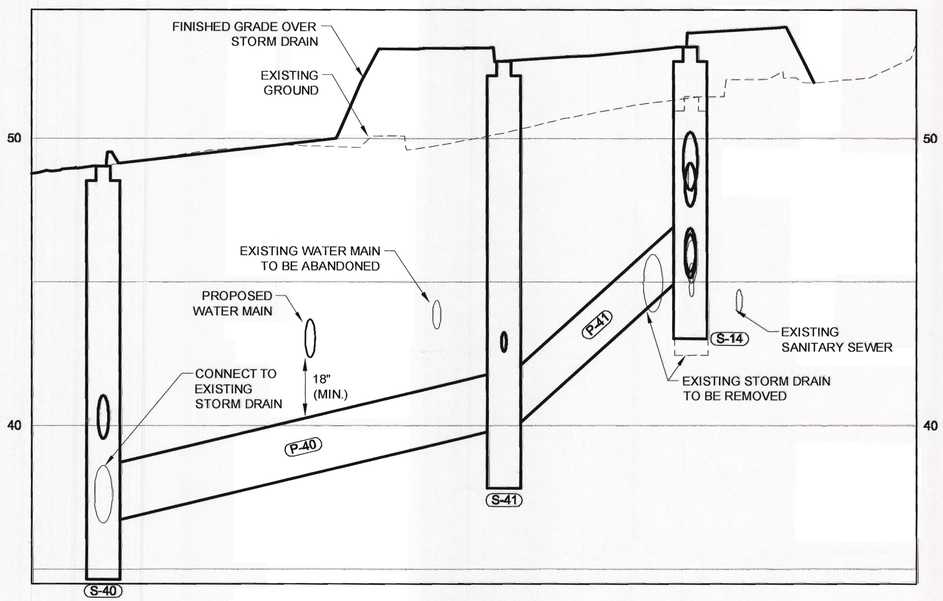

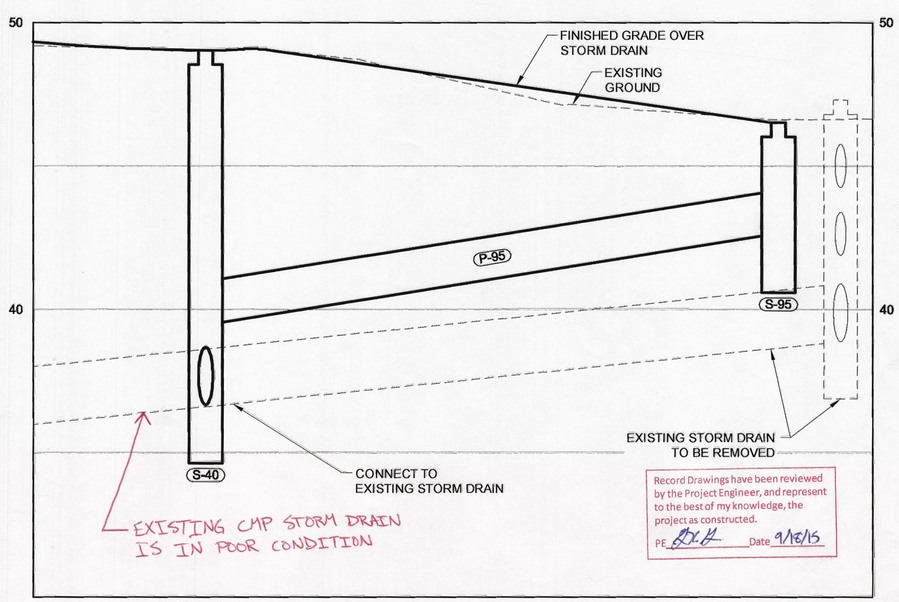

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE BXK Date 9/16/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: U7

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
CE-8386
4/8/15
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U7	82

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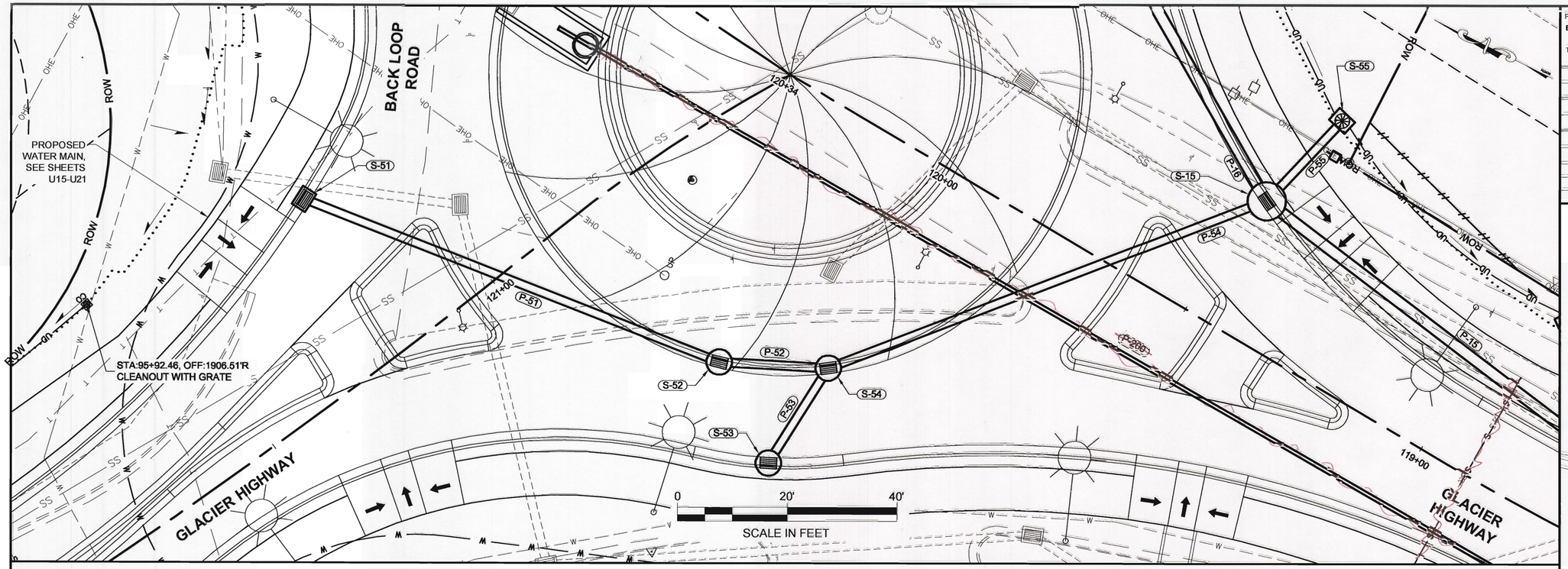

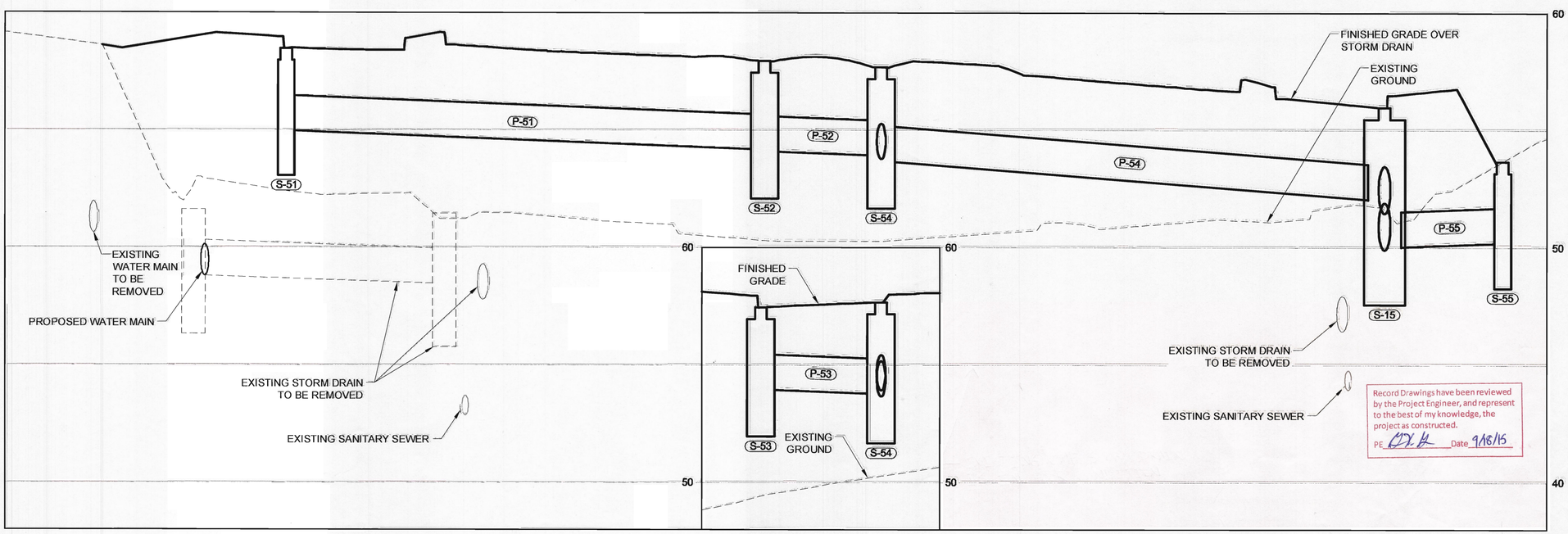

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK

TAB: U8

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

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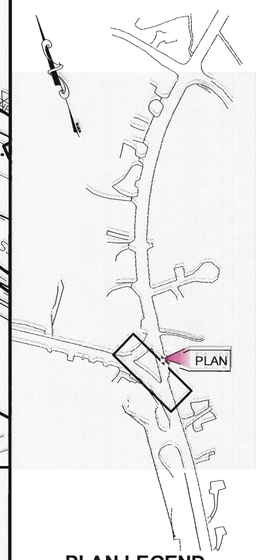


PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
Nathan C. Leigh
CE-8386
4/9/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

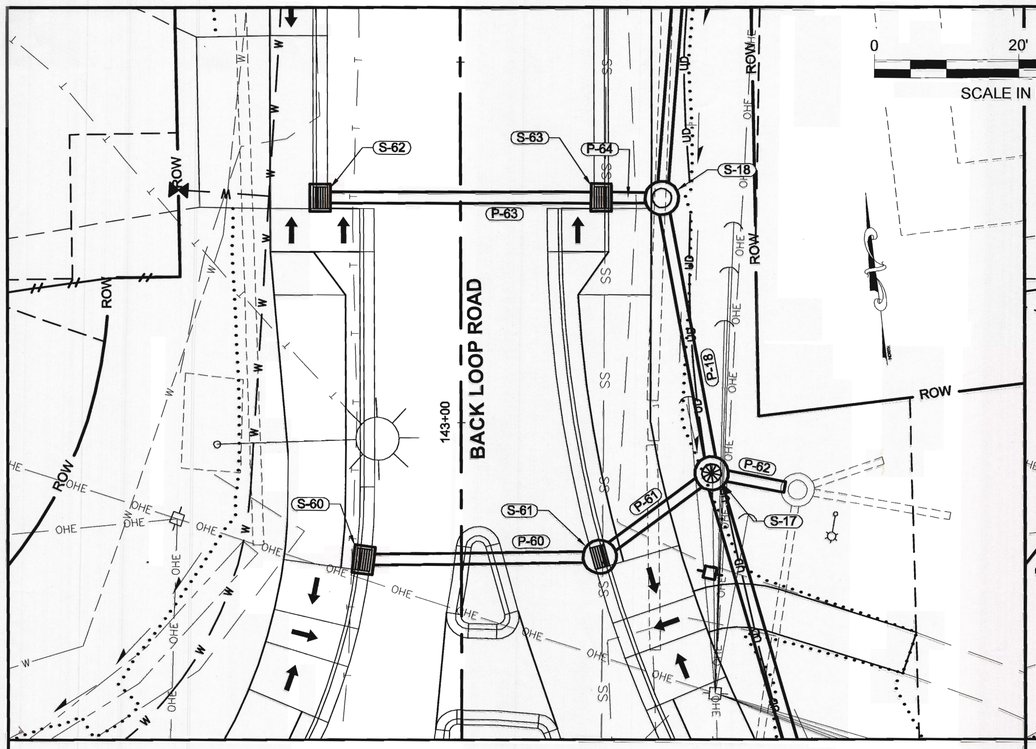
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

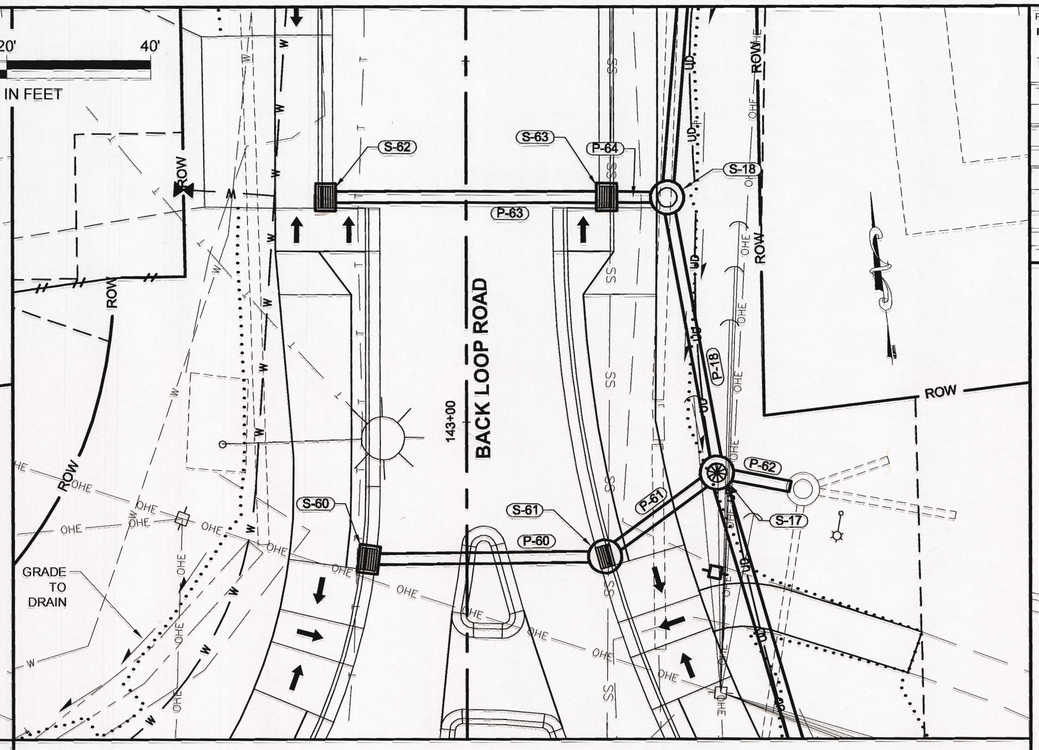
Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE DX H Date 9/18/15

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U8	82





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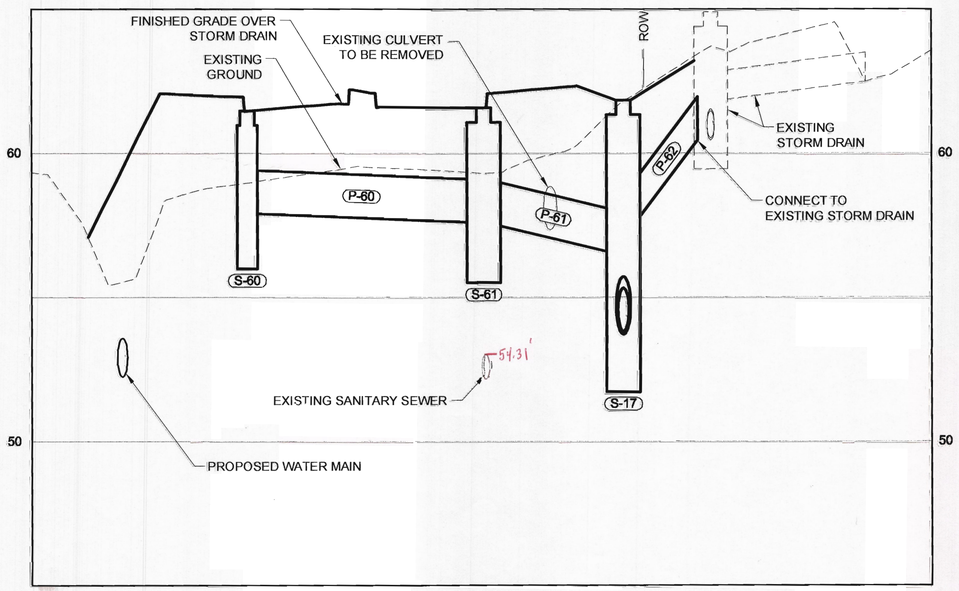

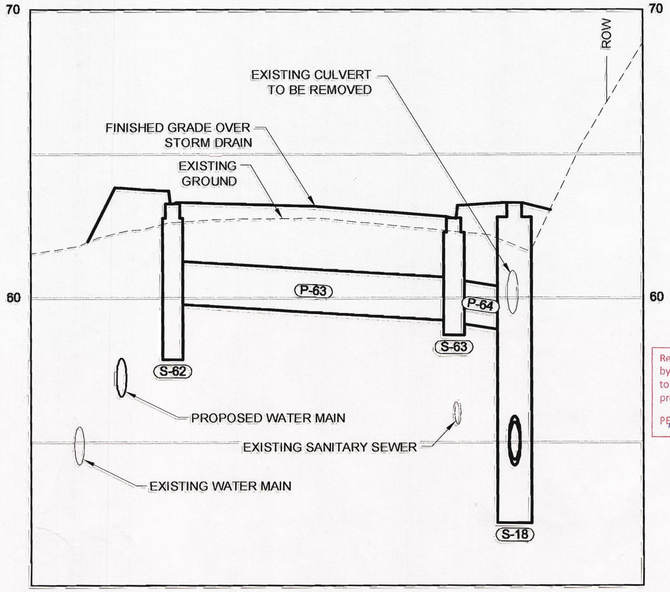

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: I:\1289500\DWGS\CS\SHEETS\1289500_U01-U14.DWG

PREPARED BY: USKH
BILL PADDOCK

TAB: **U9**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

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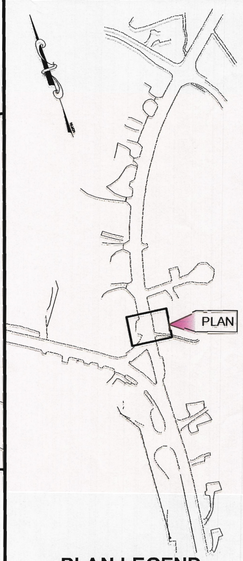


PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

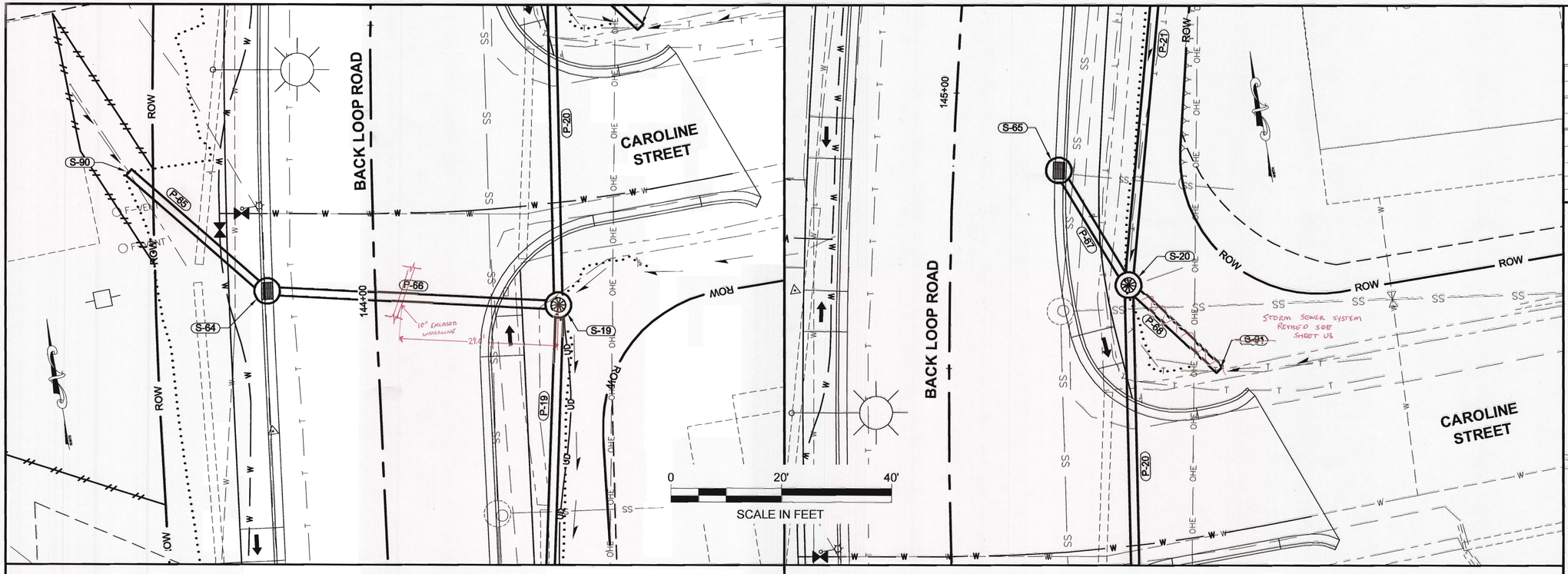
DRAWN BY: B. PADDOCK

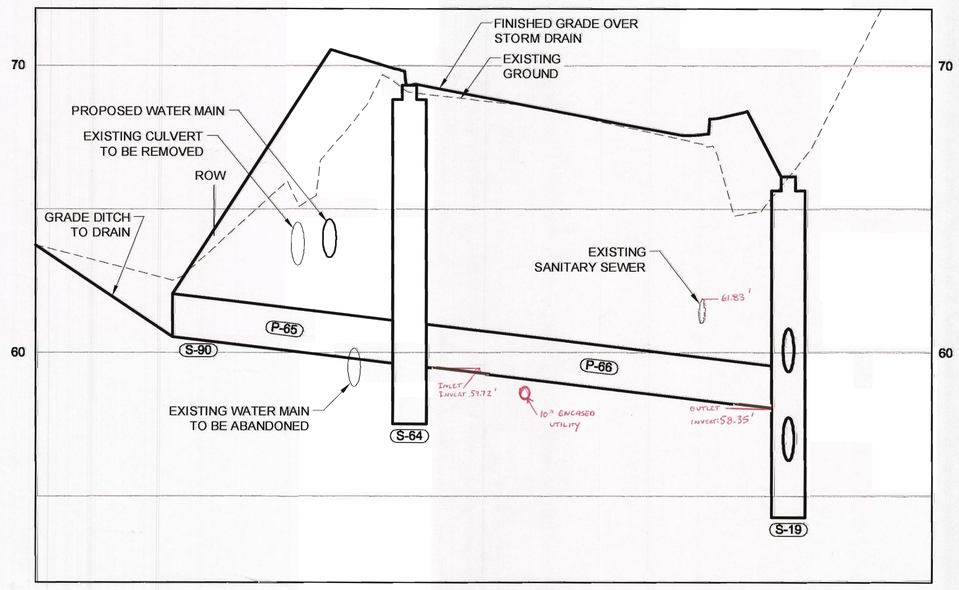
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

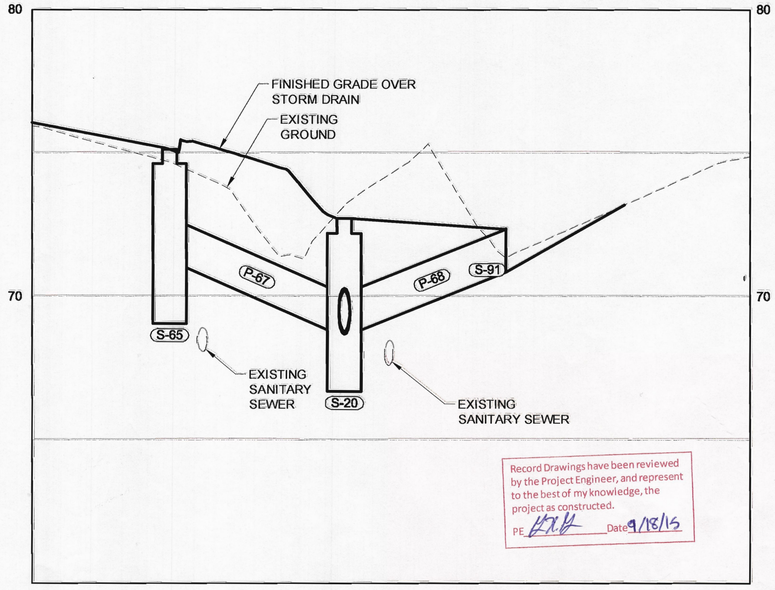
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U9	82

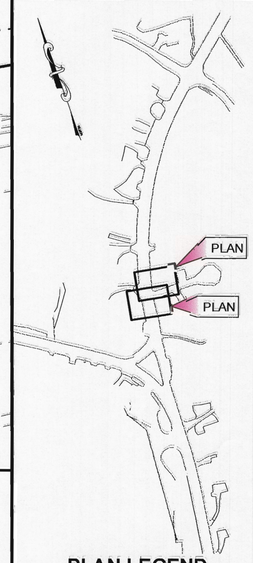






Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
P.E. _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN LEGEND

PREPARED BY: USKH
BILL PADDOCK

TAB: **U10**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U10	82

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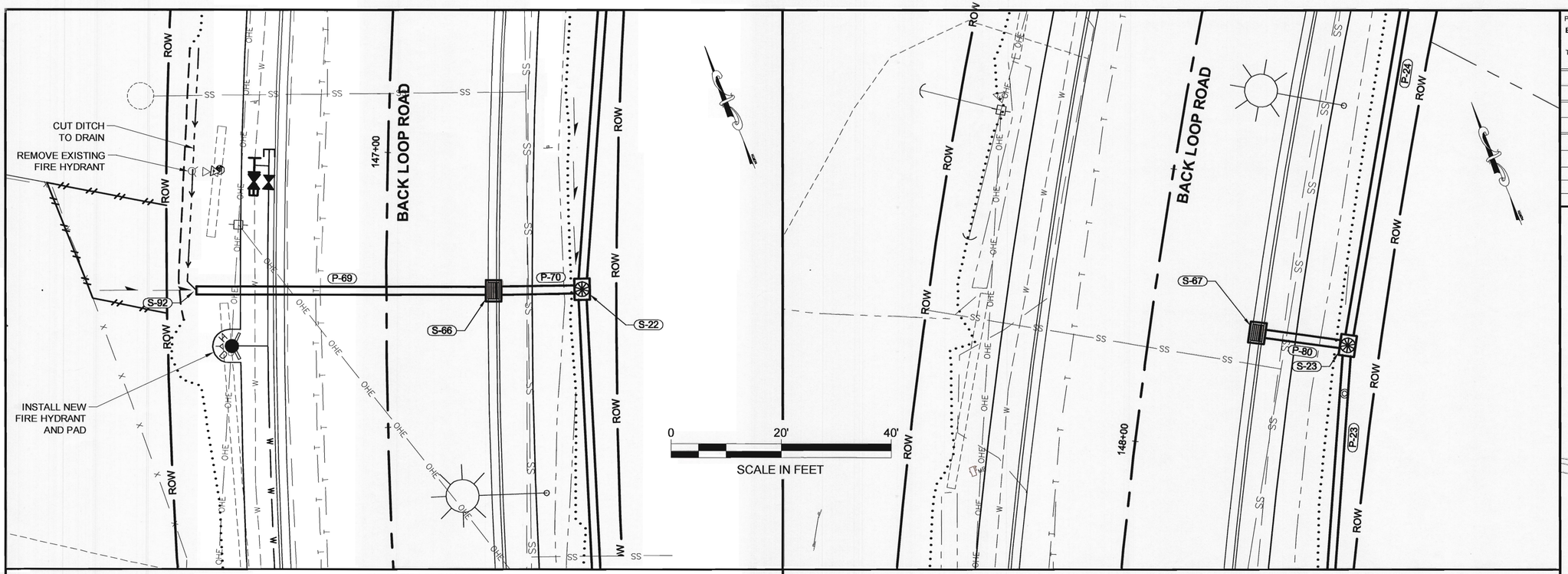
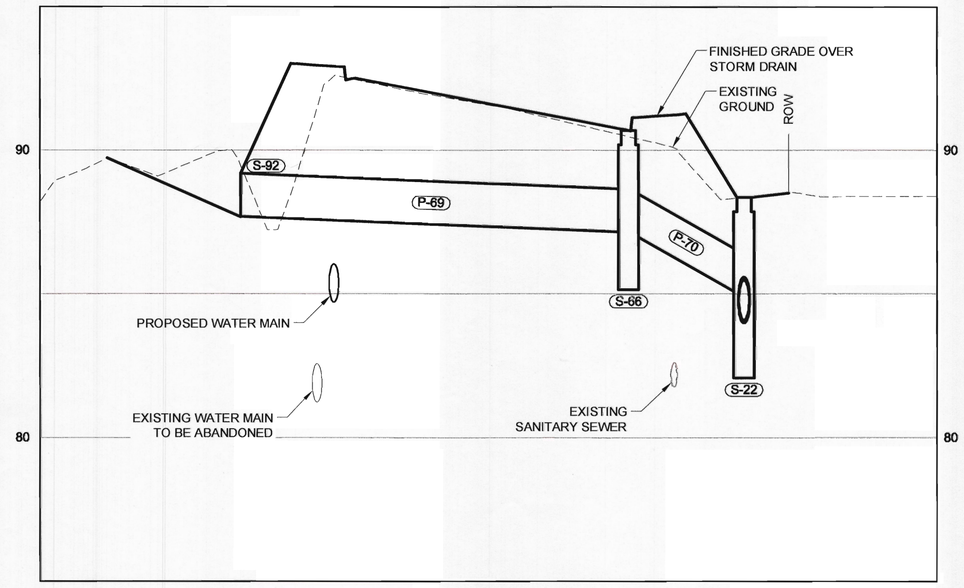
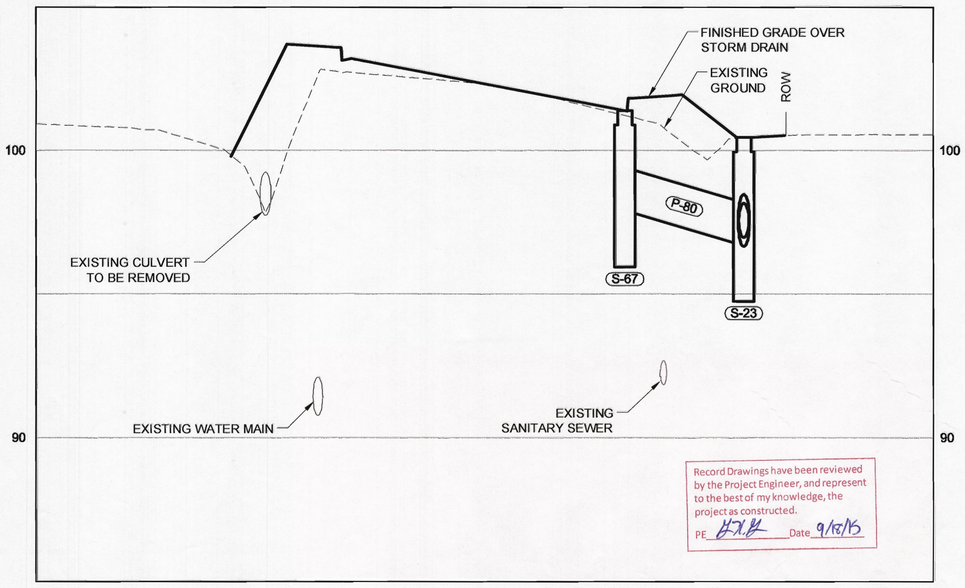






Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/12/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

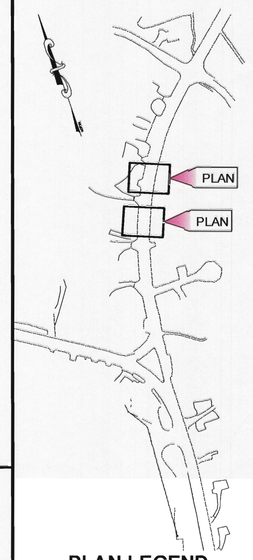
PREPARED BY: USKH
BILL PADDOCK

TAB: **U11**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/9/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U11	82

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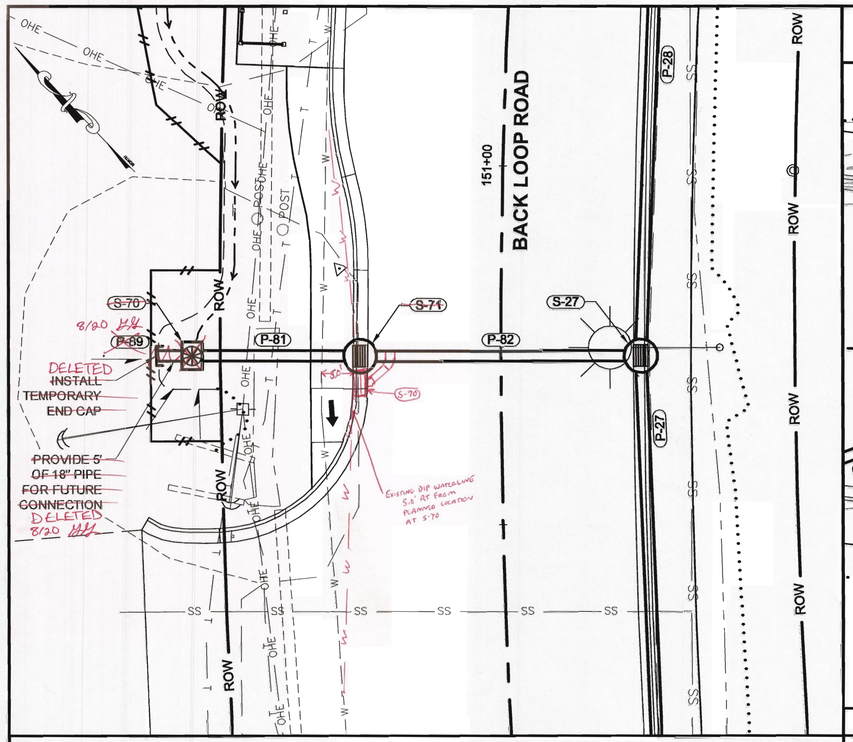

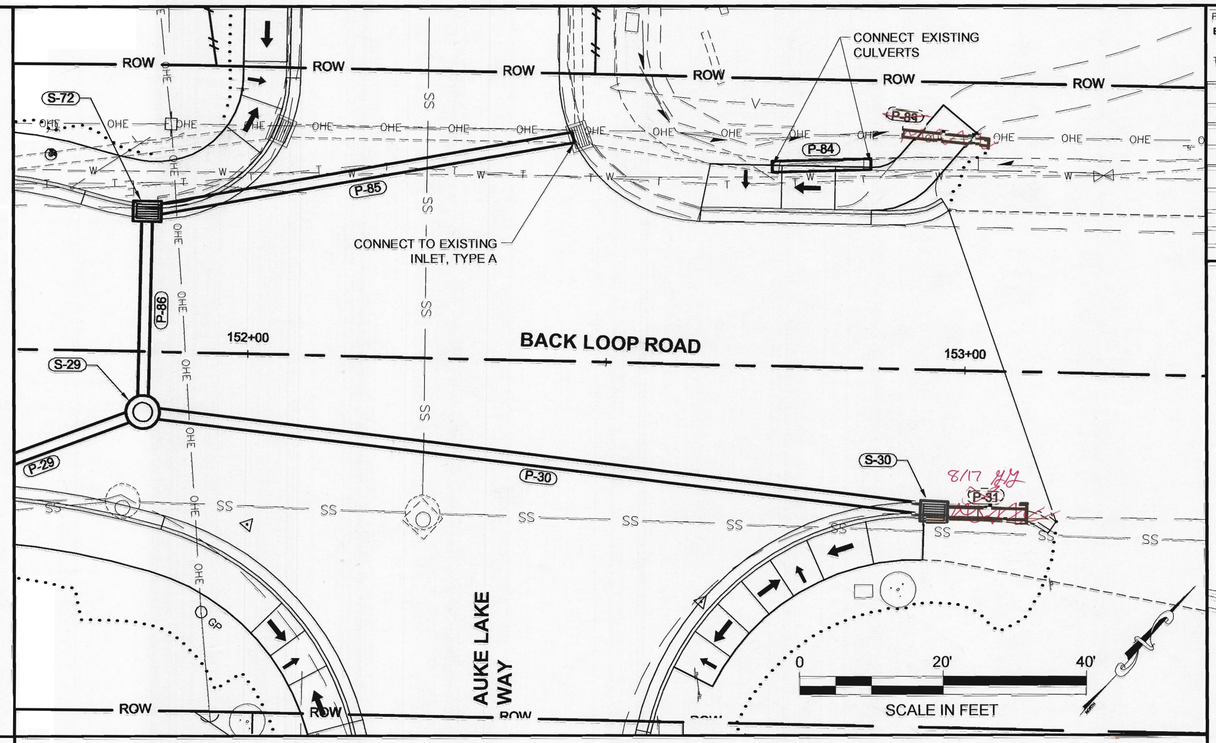

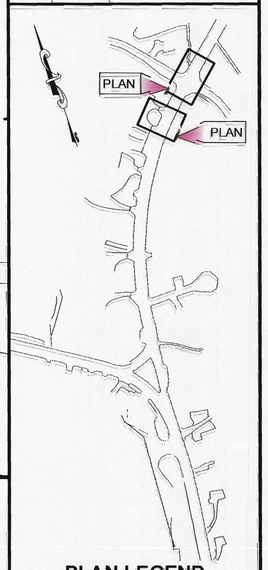

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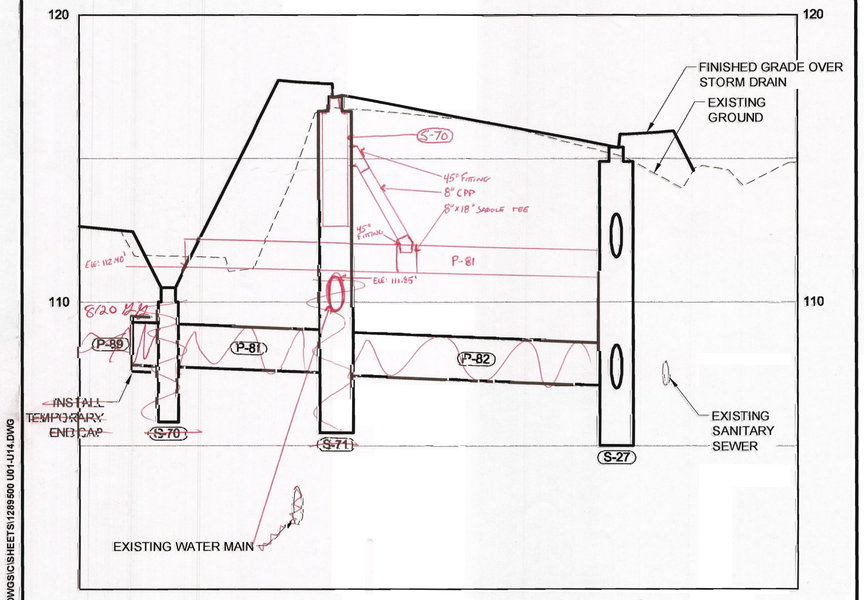

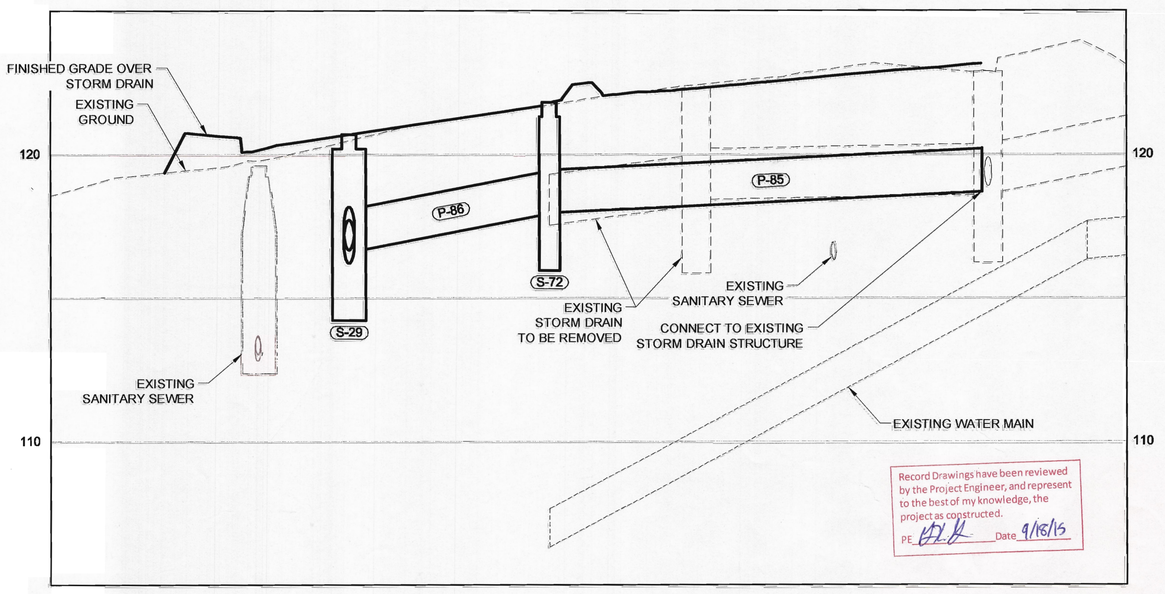

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE MH Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK
TAB: U12

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

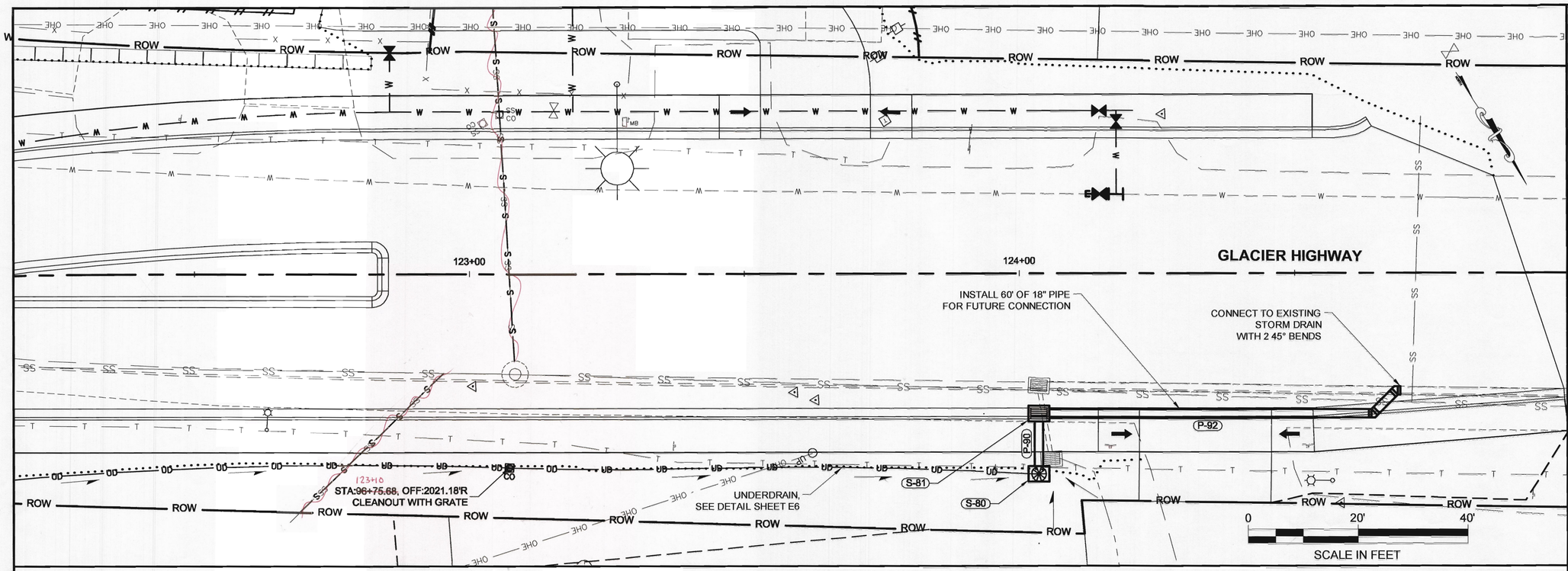
DESIGNED BY: G. JENKINS, B. PADDOCK
DRAWN BY: B. PADDOCK

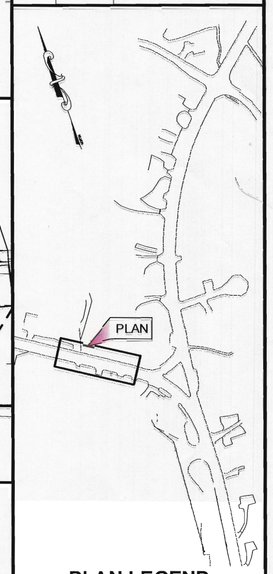
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

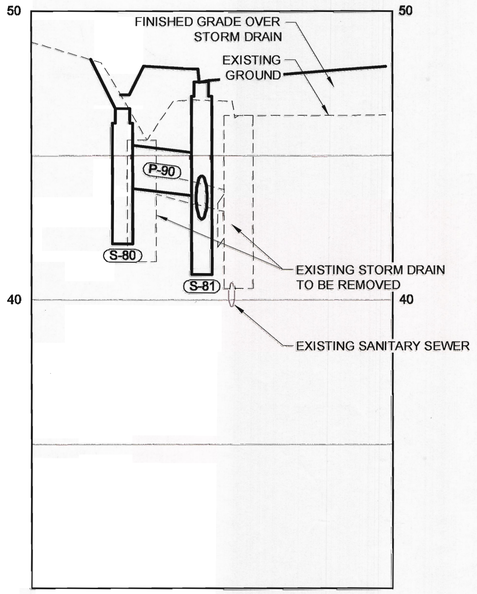
STORM DRAIN PLAN AND PROFILE

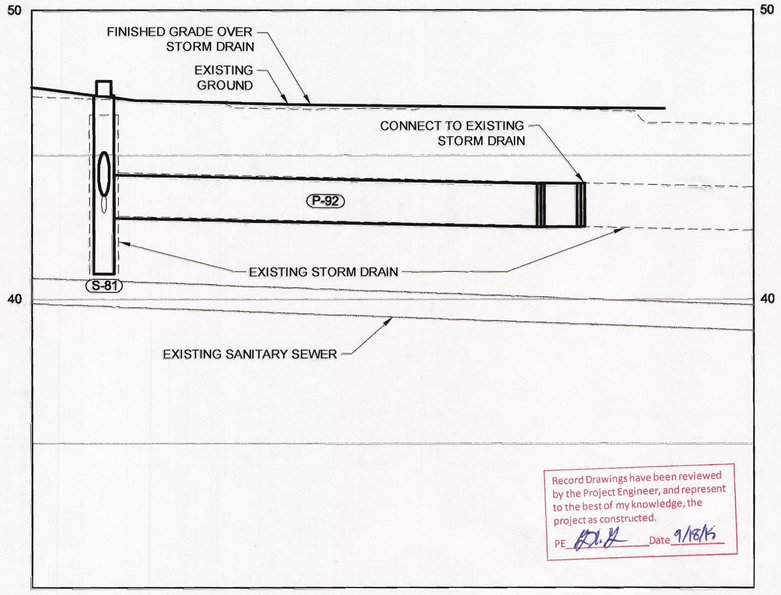
PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U12	82





PLAN LEGEND





Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE _____ Date 9/18/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: U13

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8386
4/3/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK,

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP
ROAD INTERSECTION SAFETY
IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U13	82

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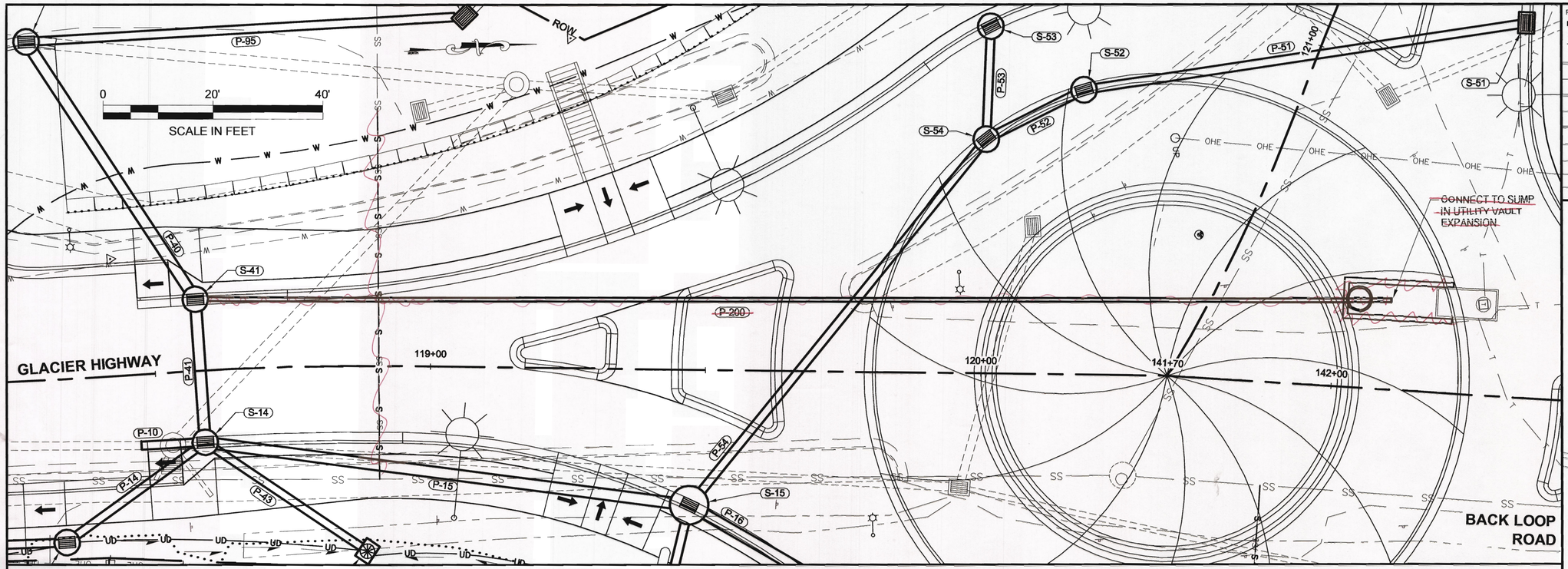
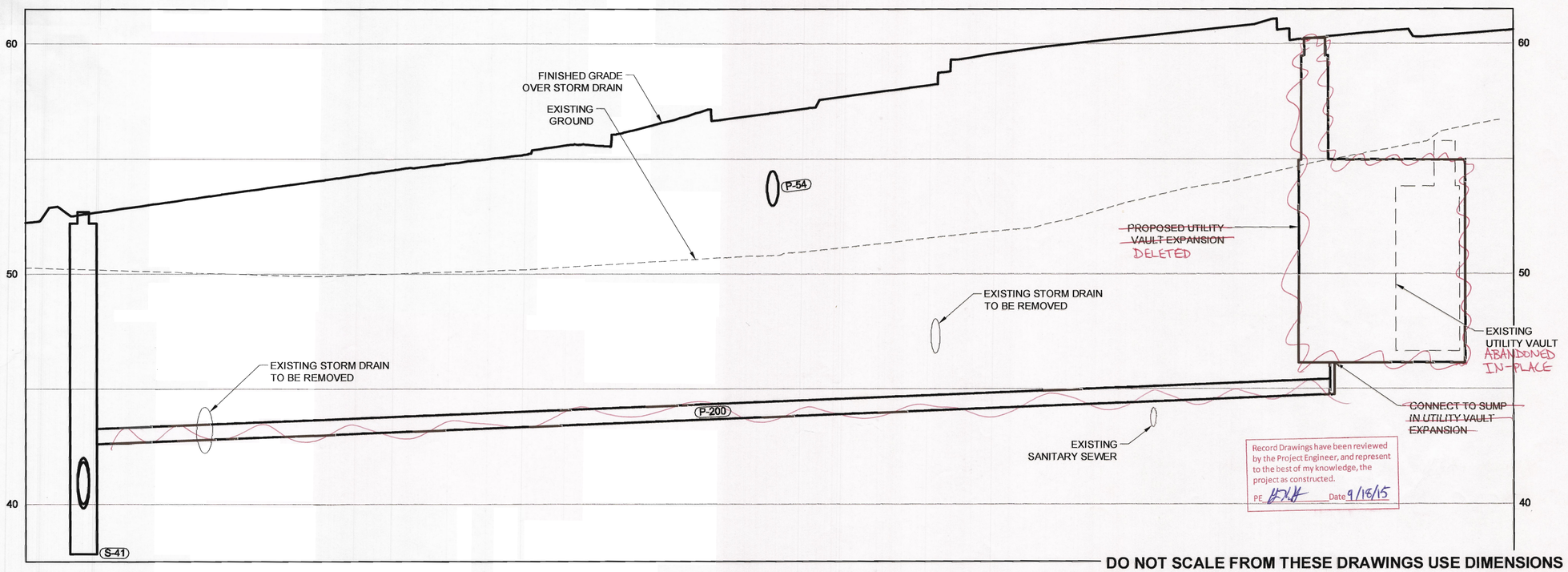




Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE UXH Date 9/16/15

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK
TAB: U14

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan C. Leigh
CE-8358
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

STORM DRAIN PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U14	82

PATH:H:\1289800\DWGS\CS\SHEETS\1289800 U01-U14.DWG

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE 27.A Date 9/18/15

0 20' 40'

SCALE IN FEET

STA:117+91.24, OFF:16.16'L PC

~~STA:117+88.21, OFF:16.24'L CONNECT TO EXISTING 12" DIP WATER MAIN, 16" X 12" REDUCER 16" BUTTERFLY VALVE~~

12" DIP

EXISTING 12" WATER MAIN

EXISTING WATER SERVICE 1" COPPER

REMOVE 10' OF EXISTING PIPE

CONNECT TO EXISTING 12",45° DIP FITTING

16" BUTTERFLY VALVE

16"X12" REDUCER

12",45° DIP FITTING

STA:118+00.90, OFF:25.00'R ~~1-1/2" WATER SERVICE CONNECTION~~ (DID NOT REPLACE) (EXISTING) TO EXISTING 12" DIP WATER MAIN

EXISTING 1" COPPER WATER SERVICE

117+00

118+00

119+00

GLACIER HIGHWAY

STA:118+24.94, OFF:27.18'L PRC

STA:118+55.76, OFF:37.65'L PRC

R= 50'

R= 250'

PROPOSED BLOCK WALL

EXISTING STORM DRAIN TO BE REMOVED, TYP.

SEWER SERVICE DOES NOT EXIST

16" EF COUPLING

EXISTING WATER MAIN, 12" DIP STA: 117+00.0 ELE: 44.80 AT STATION: 50 ELEV: 10.21

EXISTING STORM DRAIN TO BE REMOVED, TYP.

EXISTING 12" WATER MAIN TO BE ABANDONED IN PLACE

STA:119+32.96, OFF:55.95'L PT

2" HDPE WATER SERVICE, WITH TRACER WIRE

16" HDPE ELECTRO FUSION COUPLINGS, SEE SHEET U16

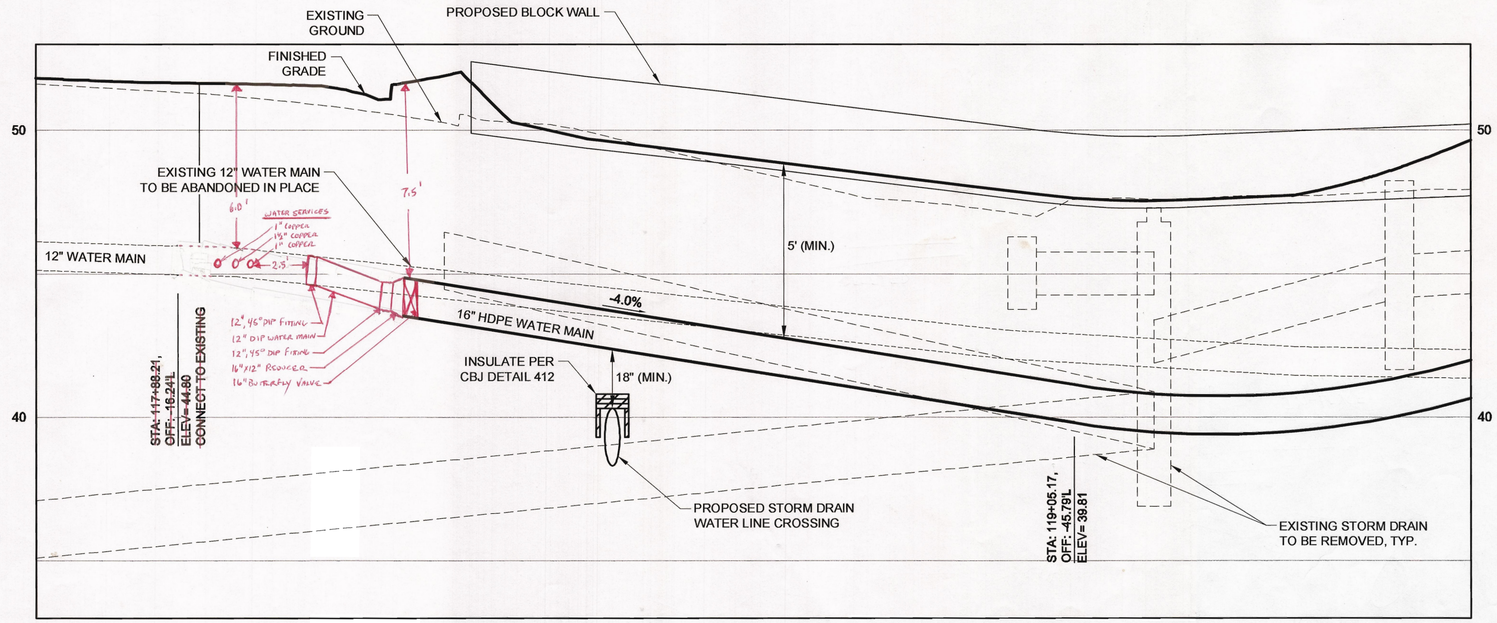
PROFILE MATCH LINE

F-VENT

ROW

UTILITY NOTES:

1. WATER SYSTEM CONSTRUCTION SHALL BE ACCORDANCE WITH THESE PLANS, THE SPECIFICATIONS, AND ADEC REGULATIONS AS CONTAINED IN 18-AAC-80, DRINKING WATER.
2. SANITARY SEWER SYSTEM CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE SPECIFICATIONS, AND ADEC REGULATIONS AS CONTAINED IN 18-AAC-72, WASTEWATER DISPOSAL.
3. MAINTAIN MINIMUM 10 FOOT HORIZONTAL, AND 18 INCH VERTICAL SEPARATION BETWEEN SEWER AND WATER MAIN LINES AT ANY POINT. SEE ADEC WAIVERS FOR EXCEPTIONS.
4. WATER MAINS SHALL CROSS OVER THE TOP OF SEWER MAINS WITH 18 INCHES OF SEPARATION BETWEEN OUTSIDE EDGES OF THE PIPES. THE WATER LINE JOINTS SHALL BE AT LEAST 9 FEET FROM THE SEWER JOINTS.
5. NEW WATER PIPE SHALL BE HDPE PIPE UNLESS NOTED OTHERWISE. WATER SERVICE LINES SHALL BE COPPER PIPE. FIRE HYDRANT LEGS SHALL BE DIP.
6. SEWER PIPE SHALL BE DIP OR HDPE PIPE.
7. STORM DRAIN CULVERTS SHALL BE CPP - TYPE S.
8. WATER LINE DESIGN IS BASED ON HDPE PIPE WITH AN ALLOWABLE BENDING RADIUS = 10-D. THE CONTRACTOR SHALL SUBMIT ALIGNMENT SHOP DRAWINGS IF SELECTED HDPE PIPE MANUFACTURER'S ALLOWABLE BENDING RADIUS IS GREATER.
9. THE 100-YEAR FEMA FLOOD LEVEL IS OUTSIDE THE PROJECT LIMITS.
10. MAINTAIN 5' MINIMUM COVER ON WATER MAINS AND 4' MINIMUM COVER ON SEWER MAINS.
11. WATER PIPE ELEVATIONS ARE TO BOTTOM OF PIPE.
12. EXISTING WATER MAINS TO BE ABANDONED SHALL BE PUMPED FULL OF GROUT OR REMOVED.



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PREPARED BY: USKH

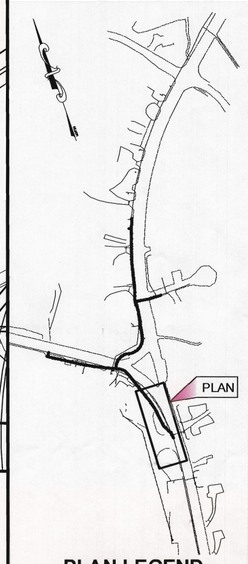
BILL PADDOCK

TAB: **U15**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH Nathan C. Leigh CE-8386 4/8/13 REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

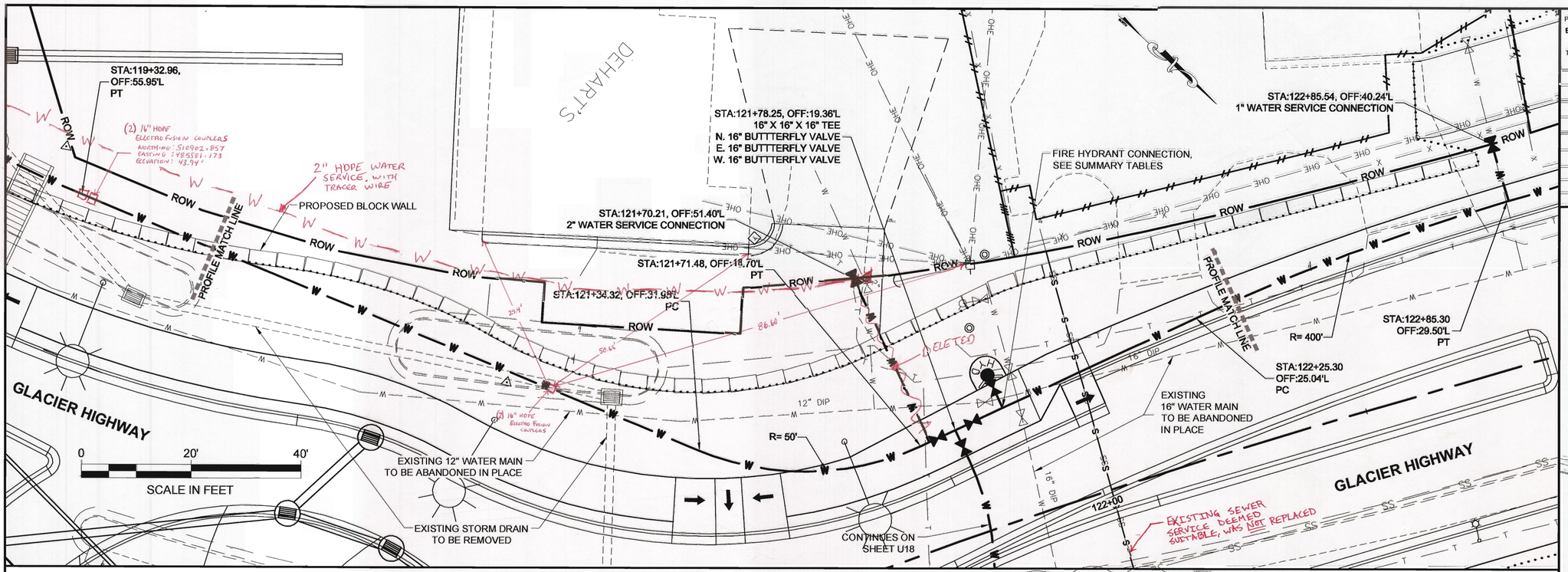
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

WATER PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	**2013**
SHEET NUMBER	TOTAL SHEETS
U15	**82**



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE _____ Date 9/18/15

PREPARED BY: USKH
BILL PADDOCK

TAB: U16

ADDENDUM NUMBER
1

ATTACHMENT NUMBER
1

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
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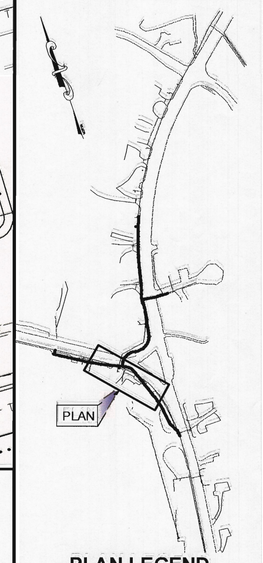


PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan Leigh
Nathan C. Leigh
CE-8386
4/22/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

WATER PLAN AND PROFILE

PROJECT DESIGNATION
69003

STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U16	82

PATH: I:\11289.800\DWGS\CSHEETS\11289500 U16-U21.DWG

PROPOSED ACCESS & UTILITY EASEMENT

STA:122+85.54, OFF:40.24'L
1" WATER SERVICE CONNECTION

STA:123+18.84, OFF:65.83'L
2" WATER SERVICE CONNECTION

STA:124+17.61, OFF:29.50'L
16" X 16" X 16" TEE
N. 16" BUTTERFLY VALVE
E. 16" BUTTERFLY VALVE
W. STUBOUT W/BLIND FLANGE

PROPOSED BLOCK WALL

PROFILE MATCH LINE

R= 400'

STA:122+25.30
OFF:25.04'L
PC

STA:122+85.30
OFF:29.50'L
PT

EXISTING WATER SERVICE

EXISTING 16" WATER MAIN

EXISTING WATER SERVICE

2.5'x2.5'x5' CONCRETE BLOCK

CONNECTION FROM EXISTING TO NEW ~~MAY BE~~ DIP IS

REMOVE 10' OF EXISTING PIPE

2.5'x2.5'x5' CONCRETE BLOCK

STA:124+17.61, OFF:14.34'L
CONNECT TO EXISTING 16" WATER MAIN,
16" X 16" X 16" TEE
W. TEMP VALVE FOR PHASING
W. BLIND FLANGE

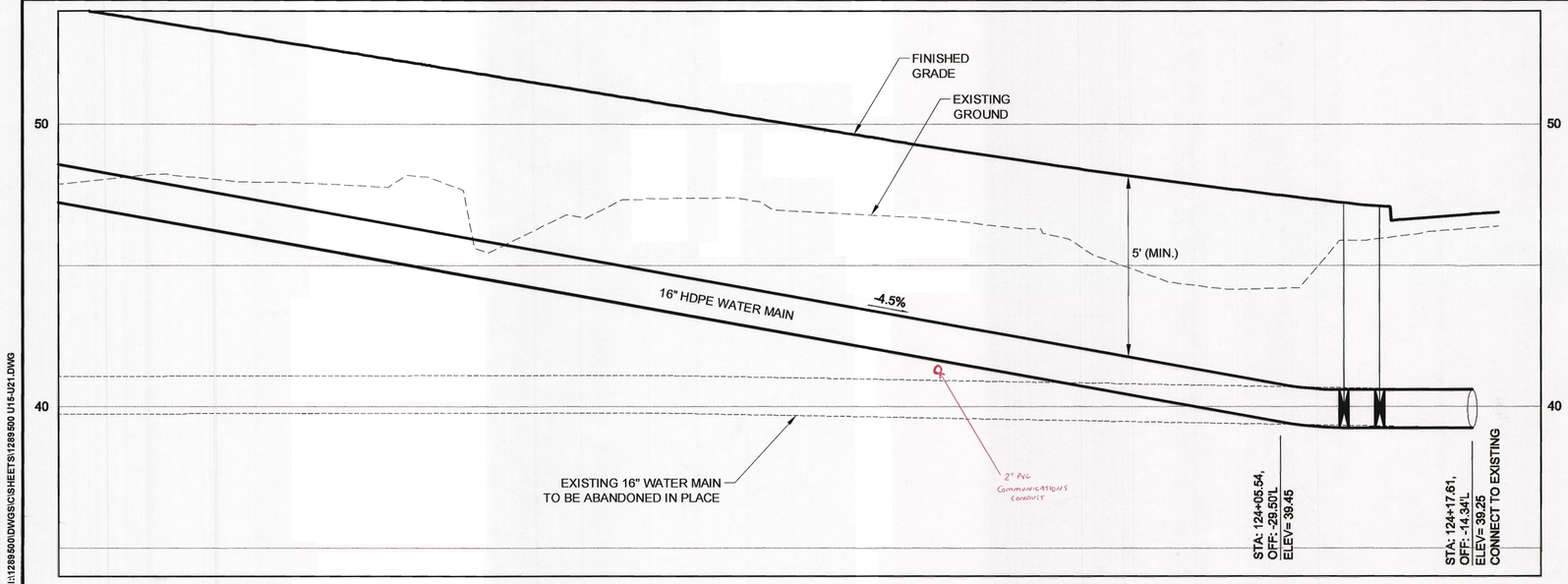
123+00 124+00 125+0

GLACIER HIGHWAY

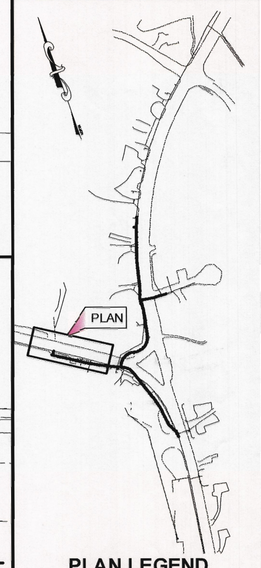
0 20' 40'
SCALE IN FEET

4" PRESSURE

ROW



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE B.P. Date 9/16/15



PLAN LEGEND

PREPARED BY: USKH
BILL PADDOCK

TAB: U17

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA 49TH
Nathan C. Leigh
CE-8386
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

WATER PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U17	82

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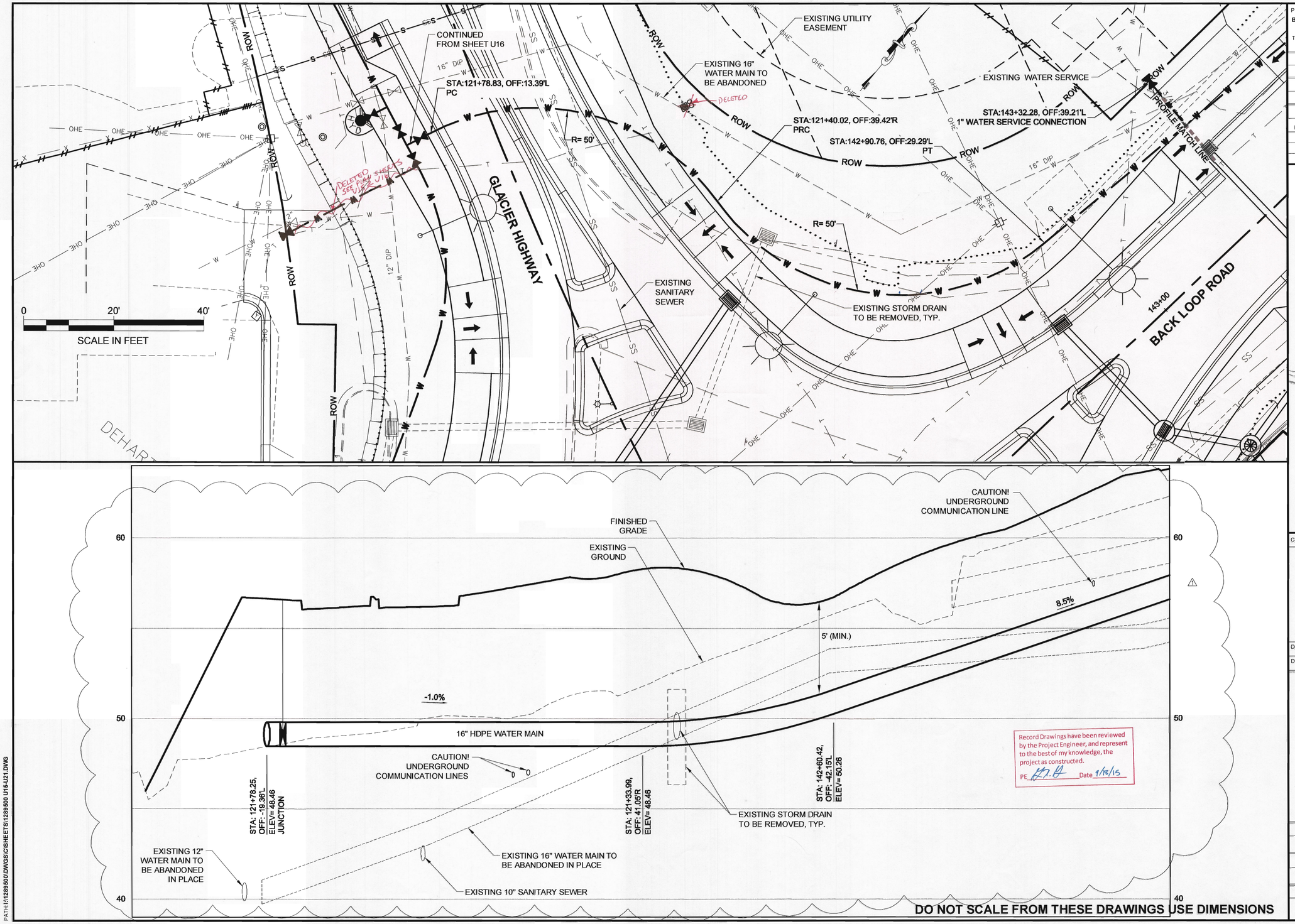

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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PREPARED BY: USKH
BILL PADDOCK

TAB: **U18**

ADDENDUM NUMBER
1
ATTACHMENT NUMBER
1

RECORD OF REVISIONS

No.	DATE	DESCRIPTION
1	4/22/13	WATERLINE PROFILE

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/22/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

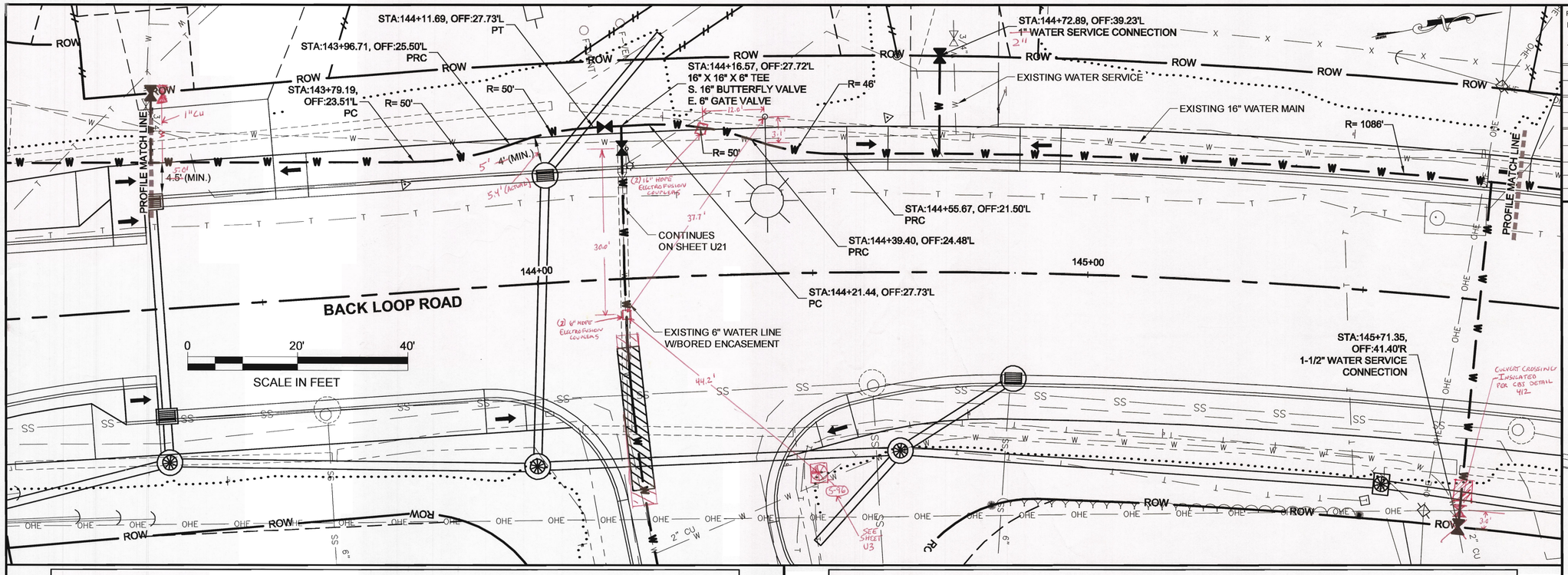
DRAWN BY: B. PADDOCK

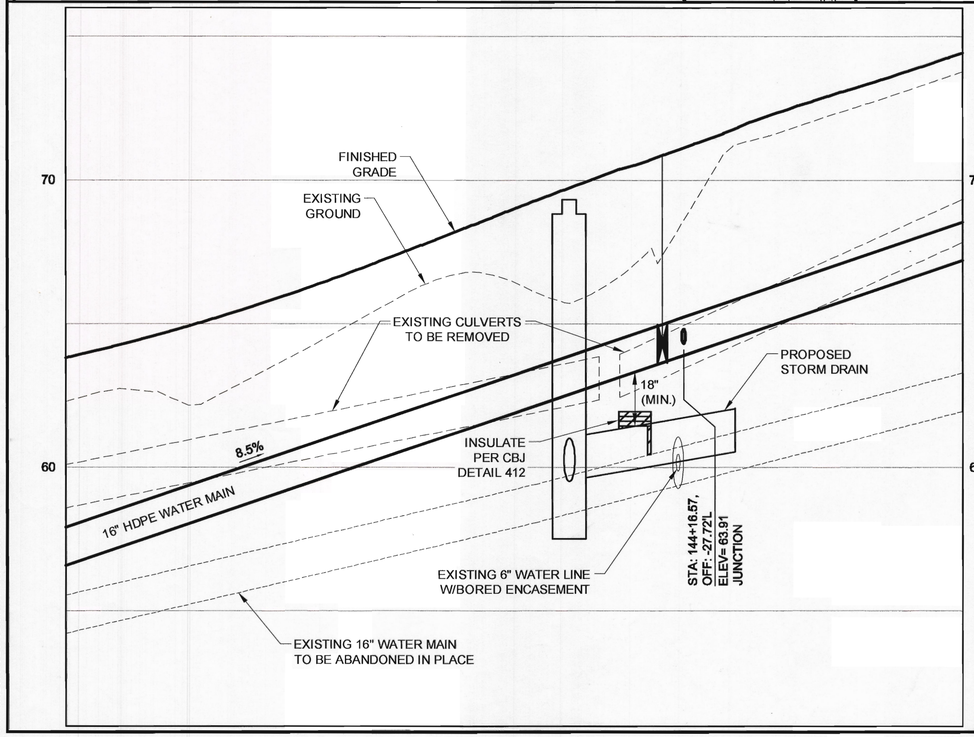
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

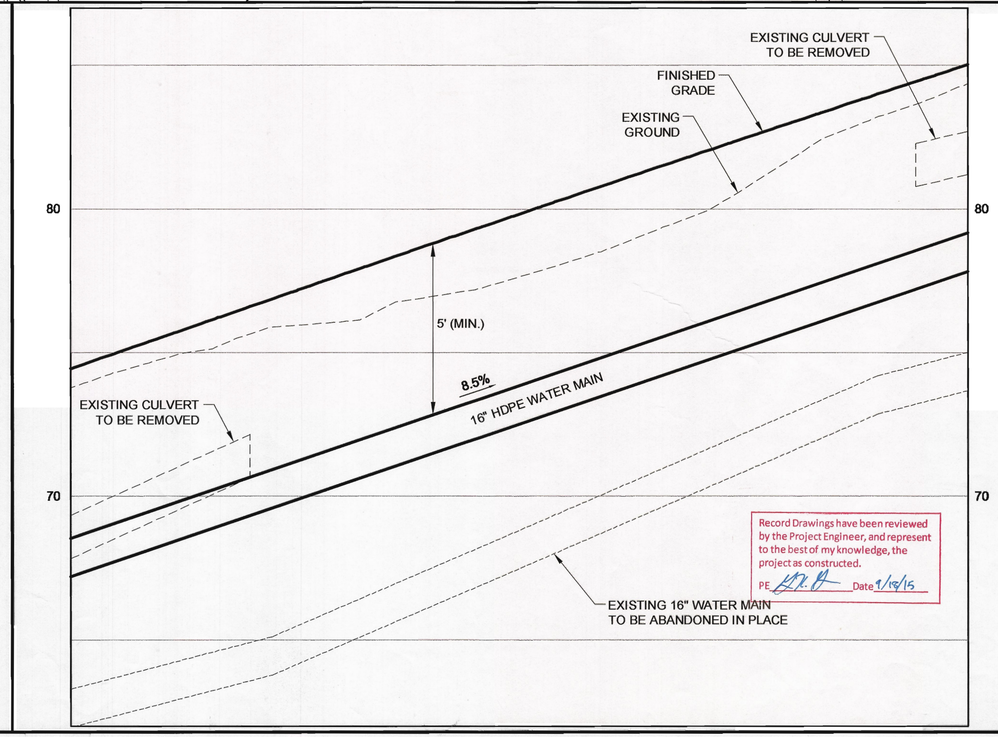
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

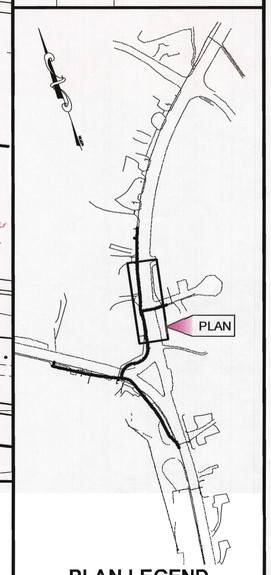
WATER PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U18	82









PLAN LEGEND

PREPARED BY: USKH
BILL PADDOCK

TAB: U19

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan Leigh
Nathan C. Leigh
CE-8386
4/21/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

WATER PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U19	82

PATH:H:\1289500\DWGS\CSHEETS\1289500 U15-U21.DWG

STA:146+00.45, OFF:38.56'L
* WATER SERVICE CONNECTION
LOCATION OF EXISTING SERVICE UNKNOWN
CONTRACTOR TO LOCATE PRIOR TO INSTALLATION

REMOVE 10' OF EXISTING PIPE

FIRE HYDRANT CONNECTION, SEE SUMMARY TABLES

EXISTING 16" WATER MAIN

STA:146+97.12, OFF:24.13'L
CONNECT TO EXISTING 16" WATER MAIN
16" X 16" X 16" TEE
S. TEMP VALVE FOR PHASING
S. BLIND FLANGE

CONNECTION FROM EXISTING TO NEW MAY BE DIP

STA:146+97.05, OFF:21.50'L
16" X 16" X 16" TEE
N. STUBOUT W/BLIND FLANGE
S. 16" BUTTERFLY VALVE

R= 1086'

PROFILE MATCH LINE

BACK LOOP ROAD

146+00

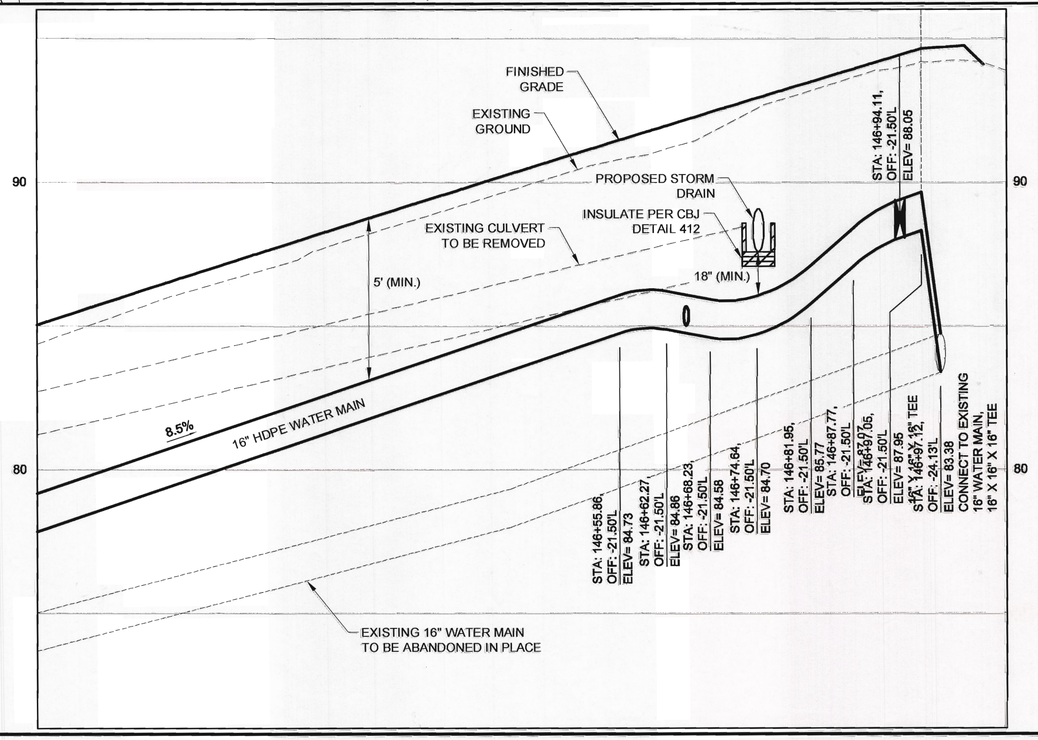
147+00

148+00

STA:145+71.35,
OFF:41.40'R
1-1/2" WATER SERVICE
CONNECTION

0 20' 40'

SCALE IN FEET



Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
PE N. H Date 1/18/15

PREPARED BY: USKH
BILL PADDOCK

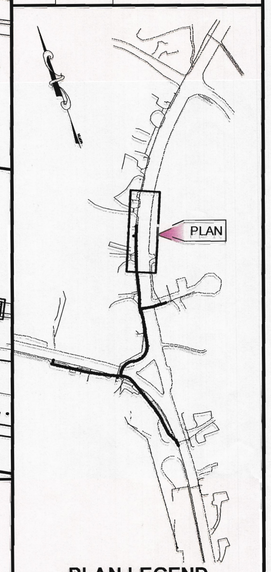
TAB: U20

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49TH
Nathan C. Leigh
CE-8388
4/18/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

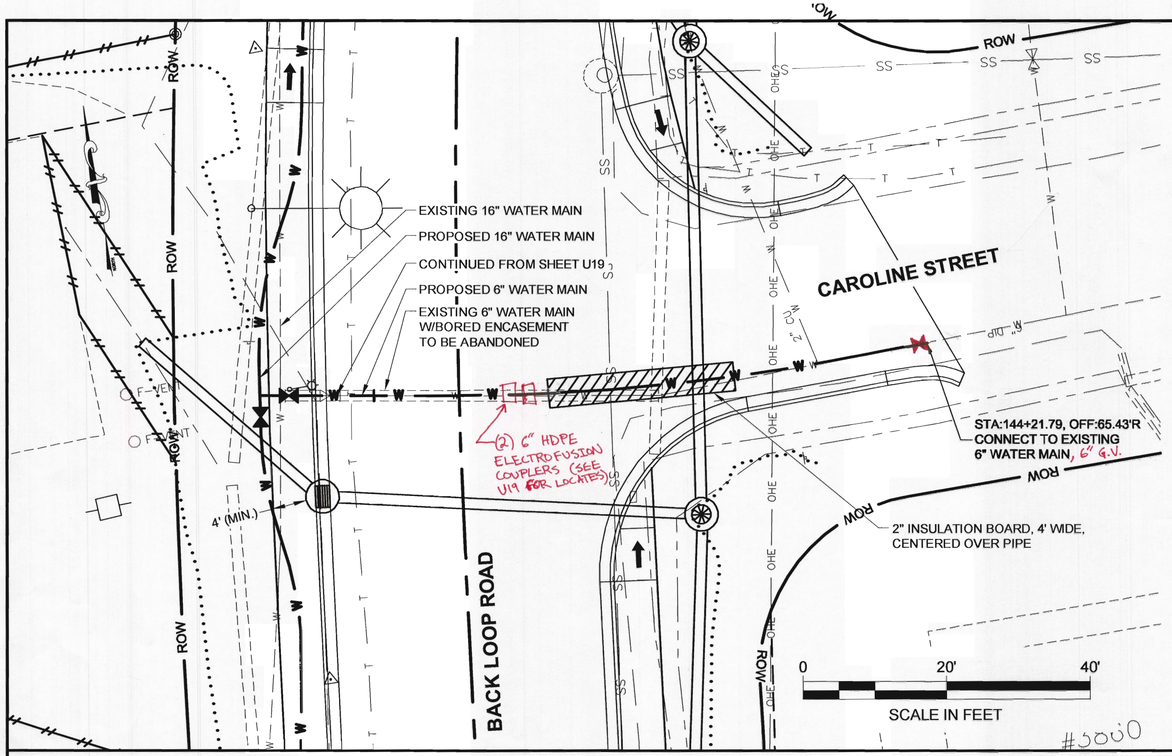
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

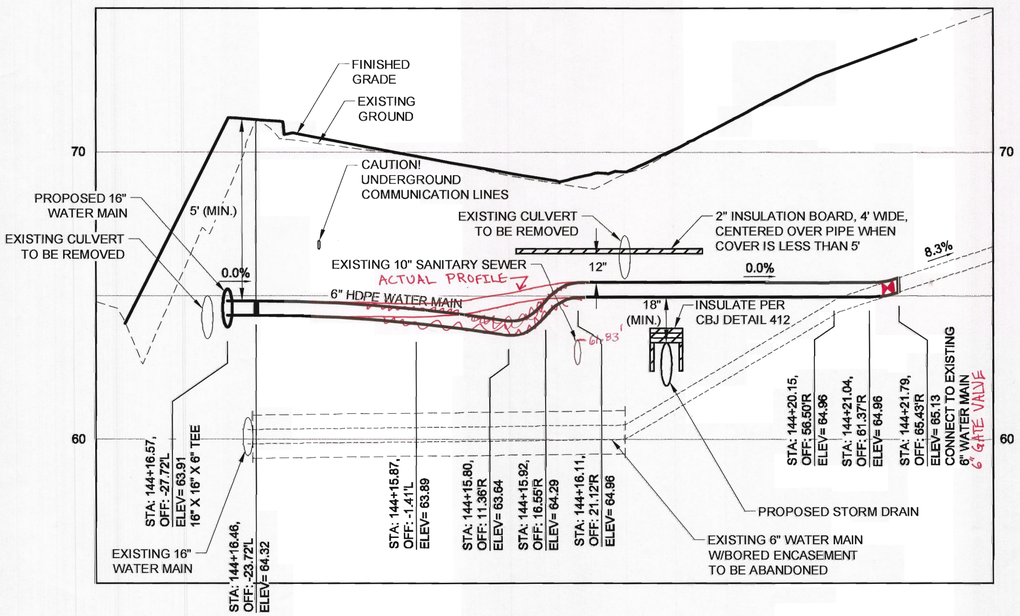
GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

WATER PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U20	82

PATH: I:\1289800\DWGS\CSHEETS\1289800 U16-U21.DWG





Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.

PE _____ Date 9/16/15

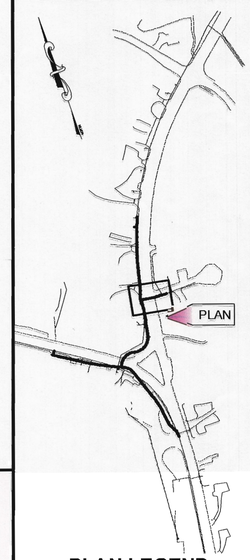
PREPARED BY: USKH
BILL PADDOCK

TAB: U21

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA
49 TH
Nathan Leigh
Nathan C. Leigh
CE-8386
4/16/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

WATER PLAN AND PROFILE

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U21	82

PATH:I:\1289500\DWGS\C\SHEETS\1289500 U15-U21.DWG

PATH: I:\1289800\DWGS\CS\SHEETS\1289800 U22.DWG

~~REPLACE~~ EXISTING SEWER SERVICE CONNECTIONS, ~~SEE SUMMARY TABLES~~

WORK DELETED, EXISTING DEEMED SUITABLE

6" PVC SEWER SERVICE PROFILE (CBJ DOCKS & HARBORS)

WORK DELETED, ~~REPLACE~~ EXISTING SEWER SERVICE CONNECTION, ~~SEE SUMMARY TABLES~~ DEEMED SUITABLE

WORK DELETED, ~~REPLACE~~ EXISTING SEWER SERVICE CONNECTION, ~~SEE SUMMARY TABLES~~ DEEMED SUITABLE

WORK DELETED, ~~REPLACE~~ EXISTING SEWER SERVICE CONNECTION, ~~SEE SUMMARY TABLES~~ DEEMED SUITABLE

~~DELETED NEW 6" SEWER SERVICE CONNECTION SEE SUMMARY TABLES~~

NEW 6" PVC SEWER SERVICE STUB FOR CBJ DOCKS & HARBORS (SEE PROFILE ABOVE)

EXISTING 6" PVC SEWER SERVICE STUB (NOT CONNECTED)

GLACIER HIGHWAY

BACK LOOP ROAD

DEEMS

DEPARTS

T.H.R.E.A. BLDG

Record Drawings have been reviewed by the Project Engineer, and represent to the best of my knowledge, the project as constructed.
P.E. [signature] Date 9/18/15

0 40' 80'
SCALE IN FEET

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PREPARED BY: USKH
BILL PADDOCK

TAB: **U22**

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN

PLAN LEGEND

CHECKED BY: N. LEIGH

STATE OF ALASKA 49 TH
Nathan C. Leigh
CE-8386
4/8/13
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: G. JENKINS, B. PADDOCK

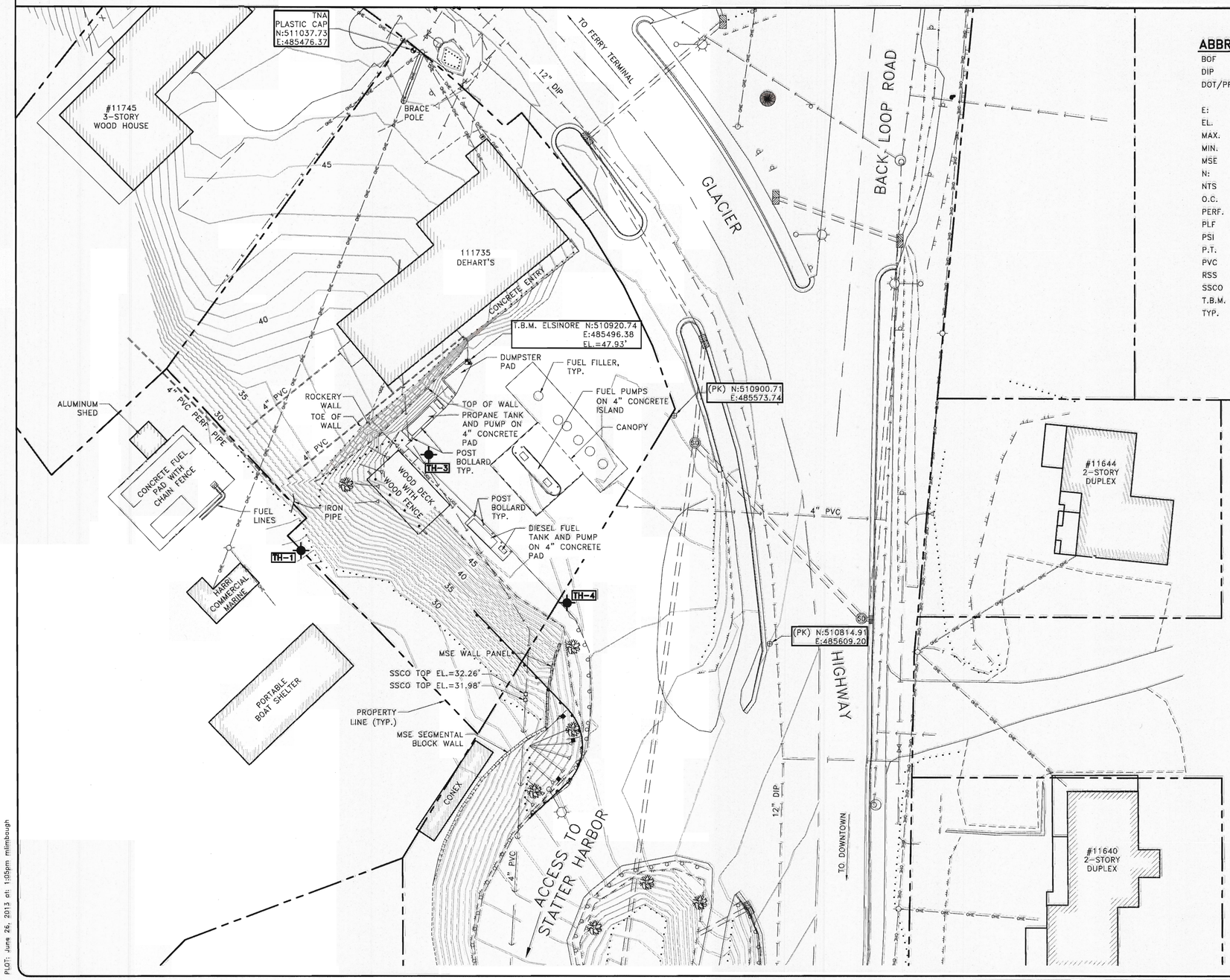
DRAWN BY: B. PADDOCK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

GLACIER HWY & BACK LOOP ROAD INTERSECTION SAFETY IMPROVEMENTS

SANITARY SEWER SERVICE REPLACEMENT

PROJECT DESIGNATION	
69003	
STATE	YEAR
ALASKA	2013
SHEET NUMBER	TOTAL SHEETS
U22	82



R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

ABBREVIATIONS

BOF	BOTTOM OF FOOTING
DIP	DUCTILE IRON PIPE
DOT/PF	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
E:	EASTING
EL.	ELEVATION
MAX.	MAXIMUM
MIN.	MINIMUM
MSE	MECHANICALLY STABILIZED EARTH
N:	NORTHING
NTS	NOT TO SCALE
O.C.	ON CENTER
PERF.	PERFORATED
PLF	POUNDS PER LINEAR FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
RSS	REINFORCED SOIL SLOPE
SSCO	SANITARY SEWER CLEANOUT
T.B.M.	TEMPORARY BENCH MARK
TYP.	TYPICAL

SYMBOLS

EXISTING	NEW	
		PRIMARY MONUMENT
		PK
		T.B.M.
		PROPERTY LINE
		CENTERLINE
		EDGE OF PAVEMENT
		EDGE OF GRAVEL
		GUARDRAIL
		TOP OF BANK
		TOE OF SLOPE
		FENCE
		POWER POLE
		LIGHT POLE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		TELEPHONE LINE
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		SANITARY SEWER LINE
		STORM DRAIN MANHOLE
		CATCH BASIN
		STORM DRAIN PIPE
		WATER LINE
		SIGN
		MSE WALL
45	45	CONTOUR LINE/FINISH CONTOUR
		ROCK WALL
		BUILDING
		TREE

SURVEY CONTROL NOTES

1. THE BASE (EXISTING TOPOGRAPHIC CONDITIONS) DRAWING WAS PROVIDED TO R&M ENGINEERING INC. IN AUTOCAD DRAWING FORMAT BY MILLER CONSTRUCTION CO. LTD. FROM STATE OF ALASKA DOT/PF.
2. THE BASIS OF VERTICAL CONTROL FOR THIS PROJECT IS THE T.B.M. ELSINORE LOCATED IN THE NORTHEAST CORNER OF THE DEHART'S DUMPSTER PAD HAVING AN ACCEPTED ELEVATION OF 47.93'.
3. R&M ENGINEERING INC. VISUALLY VERIFIED AND CONFIRMED CONTROL MONUMENTS LISTED ON THESE DRAWINGS EXIST.
4. FOR DESIGN PURPOSES A TRIANGULATED IRREGULAR NETWORK (TIN) WAS PRODUCED FROM POINTS DATA CONTAINED IN THE ABOVE REFERENCED DRAWING. R&M ENGINEERING INC. ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS OR COMPLETENESS OF THIS DATA.

SHEET INDEX

SHEET No.	DESCRIPTION
C100	EXISTING TOPOGRAPHIC CONDITIONS
C200	DEMOLITION PLAN
C300	SITE PLAN
C301	REINFORCED SOIL SLOPE (RSS) DETAILS
C302	RSS WALL ELEVATION
C303	DEHART'S WOOD DECK PLAN AND SECTIONS
C304	DEHART'S WOOD DECK FRONT ELEVATION
C305	DEHART'S WOOD DECK SIDE ELEVATION
C306	DEHART'S WOOD DECK RAMP PLAN AND SECTION
C400	SITE SECTION LOCATIONS
C401-C412	CROSS SECTIONS

I:\2013\131355\EP\131355wk.dwg PLOT: June 26, 2013 at 1:05pm mlimbaugh

DESIGN JMP
DRAWN MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

EXISTING TOPOGRAPHIC CONDITIONS

GRAPHIC SCALE
0' 10' 20' 40' 80'
CONTOUR INTERVAL = 1 FOOT

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
JUNEAU, AK. 99801
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rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

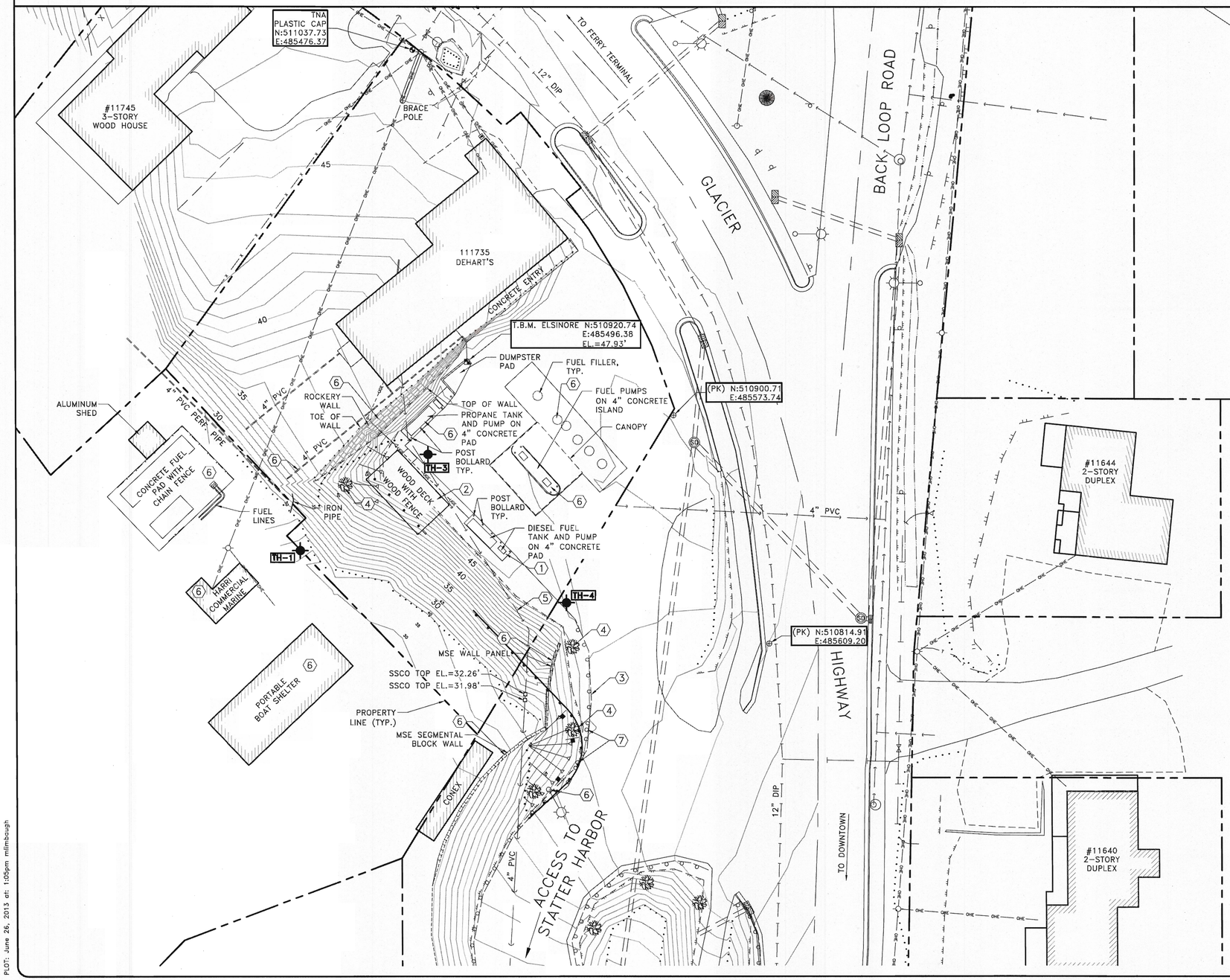
STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C100

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

DIAL BEFORE YOU DIG!
586-1333
U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES



DEMOLITION NOTES

1. REMOVE AND DISPOSE EXISTING 4" CONCRETE SLAB AND POST BOLLARDS. SALVAGE AND RELOCATE EXISTING DIESEL FUEL TANK AND PUMP ON TO NEW CONCRETE SLAB.
2. DISMANTLE EXISTING DECK AND HARDWARE. RELOCATE EXISTING WOOD DECK. SALVAGE AND RESET ALL DECK FENCE MATERIALS. SEE SHEETS C300, C303, C304 & C305.
3. REMOVE AND DISPOSE OF EXISTING METAL GUARDRAIL AND POSTS PER DOT/PF PLAN.
4. REMOVE AND DISPOSE OF EXISTING TREE AND ROOTS.
5. RELOCATE EXISTING 4" PVC SANITARY SEWER SERVICE TO BE OUT OF THE PROPOSED RSS GEOGRID REINFORCEMENT SLOPE.
6. PROTECT AND MAINTAIN.
7. REMOVE EXISTING SIGNS. RELOCATE SIGNS BEHIND NEW GUARDRAIL AS SHOWN ON SHEET C300.

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DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

DEMOLITION PLAN

GRAPHIC SCALE
0' 10' 20' 40' 80'
CONTOUR INTERVAL = 1 FOOT

STATE OF ALASKA 49TH
Joseph M. Parish
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET
C200

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

BRACE POLE
111735 DEHART'S
CONCRETE ENTRY
PK
NEW CURB PER DOT/PF PLANS
FUEL FILLER, TYP.
4" PVC
GLACIER HIGHWAY
PK
T.B.M. ELSINORE EL.=47.93'
CANOPY
FUEL PUMPS ON CONCRETE ISLAND
DUMPSTER PAD
TOP OF WALL
TO DOWNTOWN
DIESEL FUEL TANK AND PUMP ON 4" CONCRETE PAD
PROPANE TANK
POST BOLLARD TYP.
EL.=47.95'
NEW ASPHALT PAVING PER DOT/PF PLAN SEE SHEET J2
12" DIP
ROCKERY WALL
TOE OF WALL
4" PVC
EXISTING 4" PVC SEWER LINE TO BE RELOCATED
R=26'
EL.=47.36'
RAMP
EL.=46.76'
EL.=47.00'
EL.=47.00'
EL.=47.00'
MSE WALL PANELS TO BE FILLED OVER
EL.=47.72'
REINSTALL EXISTING PEDESTRIAN SIDEWALK SIGN
NEW GUARDRAIL PER DOT/PF
REINSTALL EXISTING STOP SIGN
EL.=47.66'
4" PVC PIPE
4" PVC PIPE
RELOCATED WOOD DECK, RAMP AND DECK FENCE. SEE SHEETS C303-C305
RELOCATED DIESEL FUEL TANK AND PUMP
SSCO TO BE RELOCATED
2:1 FILL SLOPE TRANSITION TO 1¼:1 SLOPE
REINFORCED SOIL SLOPE (RSS) AREA
MSE SEGMENTAL BLOCK WALL
EL.=47.60'
REINSTALL EXISTING NO PARKING NO STOPING SIGN
PROTECT AND MAINTAIN
ACCESS TO STATTER HARBOR
4" PVC PERF. PIPE
BEGIN RSS GEOGRID LAYER 1 N:510855.93 E:485429.44 EL.=26'
PROPERTY LINE (TYP.)
END RSS GEOGRID LAYER 1 N:510772.49 E:485508.88 EL.=26'
EL.=45.77'
SAWCUT & MTE
2:1 FILL SLOPE TRANSITION TO 1¼:1 SLOPE
PROTECT AND MAINTAIN EXISTING MSE SEGMENTED BLOCK WALL
ALUMINUM SHED
ABOVE GROUND FUEL TANK
CONCRETE FUEL PAD WITH CHAIN FENCE
ABOVE GROUND FUEL TANK
HARRI COMMERCIAL MARINE
PORTABLE BOAT SHELTER
CONEX
4" PVC

DIAL BEFORE YOU DIG!
586-1333
U/G POWER, TELEPHONE & T.V. SHOWN ON THIS DRAWING INDICATE EXISTENCE ONLY AND DO NOT SUBSTITUTE FOR FIELD LOCATES

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DESIGN	JMP
DRAWN	MLL
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APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

SITE PLAN

GRAPHIC SCALE
0' 5' 10' 20' 40'
CONTOUR INTERVAL = 1 FOOT

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
JUNEAU, AK. 99801
Phone 907-780-6060
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rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C300

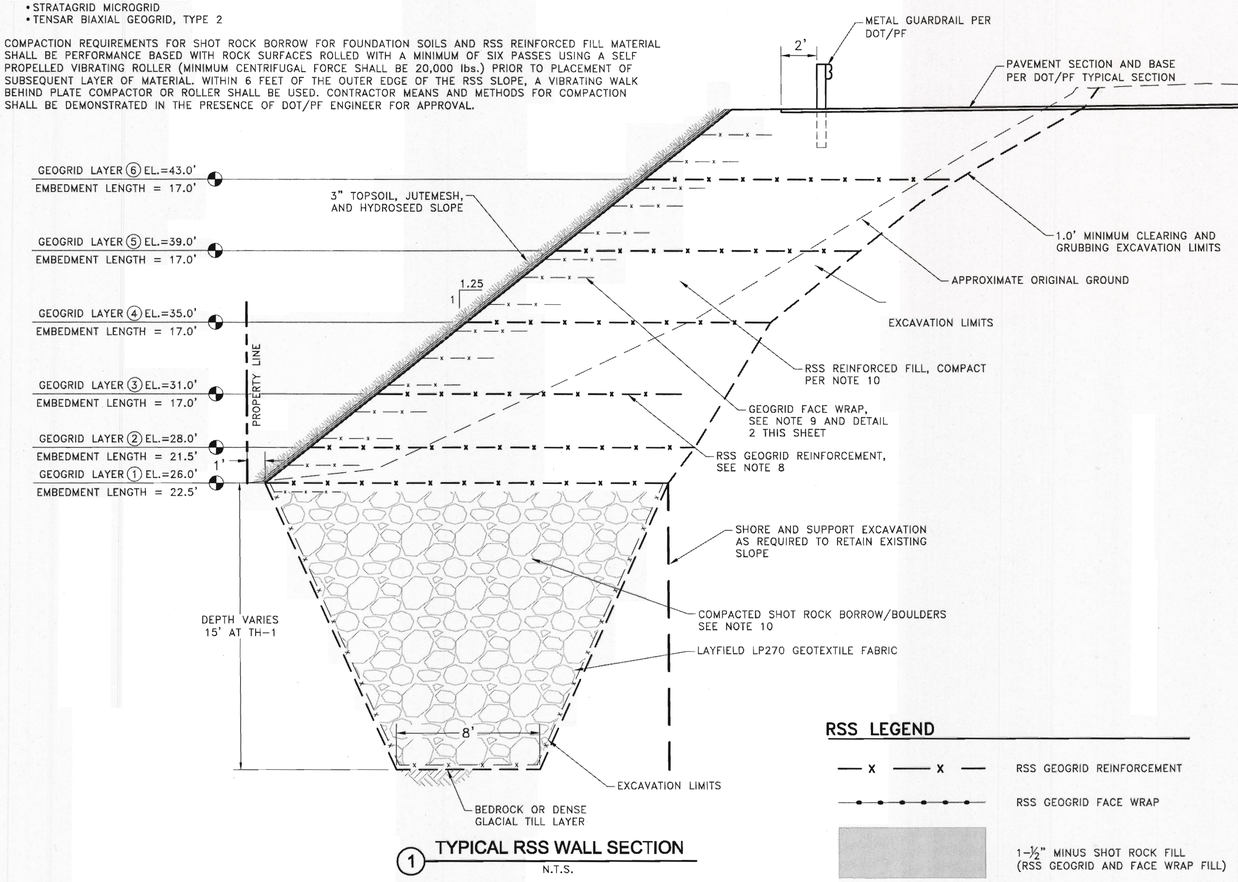
TYPICAL REINFORCED SOIL SLOPE (RSS) NOTES

1. CONTRACTOR TO MAINTAIN CUSTOMER ACCESS TO THE DEHART'S STORE ENTRANCE, GASOLINE PUMPS, PROPANE PUMP AND RENTAL ENTRANCE AT ALL TIMES.
2. CONTRACTOR TO COORDINATE WITH DEHART'S STORE OWNER FOR TEMPORARY LOCATION OF DIESEL FUEL PUMP AND PROVIDE POWER SERVICE TO THE TEMPORARY DIESEL PUMP LOCATION.
3. 1¼:1 SLOPES AT EACH END OF RSS WILL TRANSITION TO MATCH INTO 2:1 FILL SLOPES. SEE PLAN VIEW SHEETS FOR EXCEPTIONS TO SLOPES SHOWN.
4. ALL FILL AREAS BEYOND RSS LIMITS SHALL BE BACKFILLED WITH 4-INCH MINUS SHOT ROCK MATERIAL.
5. RSS SUBCUT DEPTH IS SUBJECT TO REVISION BY THE ENGINEER, DEPENDENT ON EXISTING SUBSURFACE CONDITIONS ENCOUNTERED. IF ORGANIC OR OTHER UNSUITABLE MATERIALS ARE FOUND TO EXIST AT, OR NEAR THE PLANNED SUBCUT LEVEL, ADDITIONAL EXCAVATION AND BACKFILL MAY BE REQUIRED.
6. EXISTING SEWER PIPE THAT IS TO BE RELOCATED IS TO BE REMOVED AND DISPOSED, EXCEPT AS NOTED ON THE PLANS.
7. ORGANICS, ROOTS, WOOD OR OTHER DELETERIOUS MATERIALS ENCOUNTERED IN THE RSS SLOPE DURING EXCAVATION OPERATIONS SHALL BE REMOVED, AND DISPOSED OF.
8. RSS GEOGRID REINFORCEMENT SHALL BE ONE OF THE FOLLOWING:
   - STRATAGRID SG350 (ULTIMATE STRENGTH = 5,000 PLF, ALLOWABLE STRENGTH = 2,170 PLF)
   - STRATAGRID SG200 (ULTIMATE STRENGTH = 3,600 PLF, ALLOWABLE STRENGTH = 1,562 PLF)
   - TENSAR UX1500 (ULTIMATE STRENGTH = 7,810 PLF, ALLOWABLE STRENGTH = 2,100 PLF)
   - TENSAR UX1400 (ULTIMATE STRENGTH = 4,800 PLF, ALLOWABLE STRENGTH = 1,291 PLF)
   - MIRAGRID 5XT (ULTIMATE STRENGTH = 4,700 PLF, ALLOWABLE STRENGTH = 1,596 PLF)
   - MIRAGRID 3XT (ULTIMATE STRENGTH = 3,500 PLF, ALLOWABLE STRENGTH = 1,190 PLF)
9. RSS GEOGRID FACE WRAP SHALL BE ONE OF THE FOLLOWING:
   - STRATAGRID MICROGRID
   - TENSAR BIAXIAL GEOGRID, TYPE 2
10. COMPACTION REQUIREMENTS FOR SHOT ROCK BORROW FOR FOUNDATION SOILS AND RSS REINFORCED FILL MATERIAL SHALL BE PERFORMANCE BASED WITH ROCK SURFACES ROLLED WITH A MINIMUM OF SIX PASSES USING A SELF PROPELLED VIBRATING ROLLER (MINIMUM CENTRIFUGAL FORCE SHALL BE 20,000 lbs.) PRIOR TO PLACEMENT OF SUBSEQUENT LAYER OF MATERIAL. WITHIN 6 FEET OF THE OUTER EDGE OF THE RSS SLOPE, A VIBRATING WALK BEHIND PLATE COMPACTOR OR ROLLER SHALL BE USED. CONTRACTOR MEANS AND METHODS FOR COMPACTION SHALL BE DEMONSTRATED IN THE PRESENCE OF DOT/PF ENGINEER FOR APPROVAL.

RSS DESIGN PARAMETERS	
LOADING	– HS25 HIGHWAY LOADING. – STANDARD HIGHWAY SURCHARGE =250 PSF. – CONCENTRATED TRUCK WHEEL LOAD = 480 PSF.
DESIGN LIFE	– 75 YEARS.
SEISMIC	– PEAK GROUND ACCELERATION = 0.227g. – DESIGN COEFFICIENT = 0.114g.
DECK DESIGN	– PER IBC 2009.

RSS CONSTRUCTION PHASING PLAN

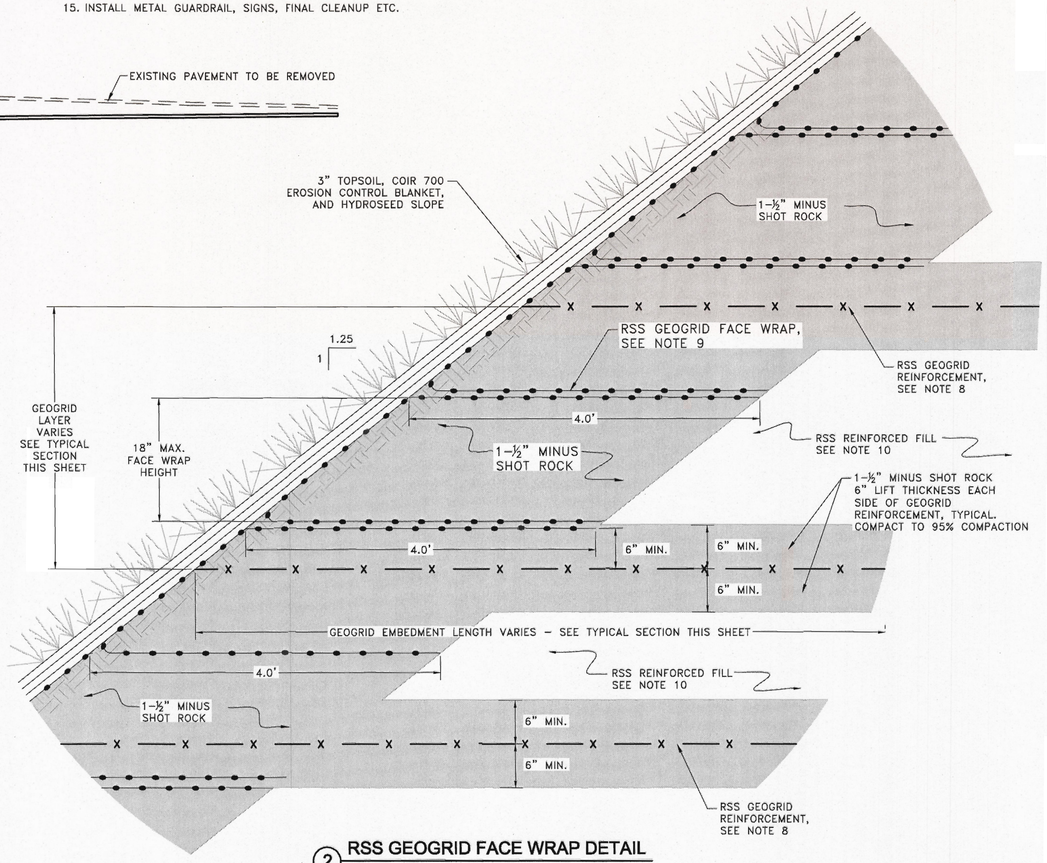
1. INSTALL EROSION CONTROL DEVICES PER THE APPROVED SWPPP.
2. PERFORM CONSTRUCTION SURVEYING, LAYOUT AND FIELD STAKING FOR THE RSS. COORDINATE WITH ADJACENT OWNERS ON SITE ACCESS.
3. COORDINATE WITH DEHART'S STORE OWNER ON TEMPORARY RELOCATION OF THE DIESEL FUEL PUMP INCLUDING TEMPORARY POWER TO PUMPS.
4. DISMANTLE THE EXISTING WOODEN DECK, DECK POSTS, POST FOOTINGS AND RAMP. SALVAGE MATERIALS FOR REUSE.
5. PERFORM SITE DEMOLITION WORK AS REQUIRED INCLUDING RELOCATION OF THE SANITARY SEWER SERVICE.
6. PERFORM CLEARING AND GRUBBING AT RSS FOUNDATION LOCATION.
7. RSS FOUNDATION EXCAVATION, GEOTEXTILE INSTALLATION AND SHOT ROCK BORROW PLACEMENT/COMPACTION. SHORE SUPPORT FOUNDATION EXCAVATION AS REQUIRED.
8. CLEAR/GRUB/EXCAVATE FOR RSS CONSTRUCTION.
9. CONSTRUCT RSS SLOPE FROM TOP OF RSS FOUNDATION SOILS. EXCAVATE AND REMOVE EXISTING SOILS AS WORK PROGRESSES.
10. INSTALL DECK POST CONCRETE FOOTINGS AS THE RSS APPROACHES THAT ELEVATION.
11. INSTALL TOPSOIL, COIR 700 EROSION CONTROL BLANKET AND SEEDING OF FACE WRAP AT COMPLETION OF RSS SLOPE.
12. RECONSTRUCT DECK AND RAMP STRUCTURE ON NEW CONCRETE FOOTINGS.
13. CONSTRUCT NEW CONCRETE SLAB FOR DIESEL TANK AND PUMP, REINSTALL DIESEL TANK AND PUMP. COORDINATE WITH OWNER.
14. GRADING AND PAVING AS REQUIRED TO MEET OVERALL SCHEDULE PHASING PLAN.
15. INSTALL METAL GUARDRAIL, SIGNS, FINAL CLEANUP ETC.



1 TYPICAL RSS WALL SECTION
N.T.S.

RSS LEGEND

- RSS GEOGRID REINFORCEMENT
- RSS GEOGRID FACE WRAP
- 1-½" MINUS SHOT ROCK FILL (RSS GEOGRID AND FACE WRAP FILL)



2 RSS GEOGRID FACE WRAP DETAIL
N.T.S.

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

DESIGN JMP
DRAWN MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

REINFORCED SOIL SLOPE (RSS) DETAILS

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 6-26-13

R & M ENGINEERING, INC.
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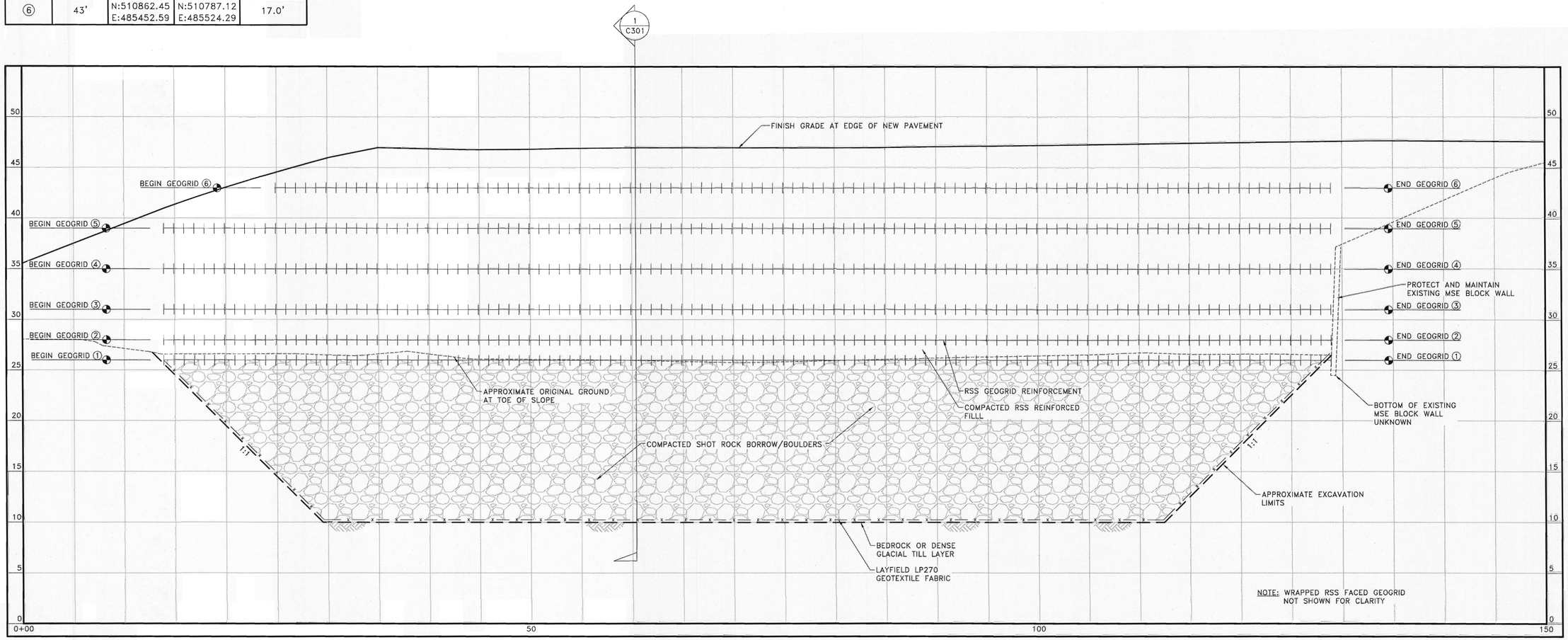
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353
SHEET C301

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:05pm mlimbaugh

RSS GEOGRID REINFORCMENT LAYOUT TABLE				
GEOGRID LAYER	GEOGRID ELEVATION	BEGIN GEOGRID	END GEOGRID	GEOGRID EMBEDMENT LENGTH
①	26'	N:510855.93 E:485429.44	N:510772.49 E:485508.88	22.5'
②	28'	N:510857.64 E:485431.27	N:510774.21 E:485510.69	21.5'
③	31'	N:510860.20 E:485434.01	N:510776.79 E:485513.41	17.0'
④	35'	N:510863.62 E:485437.66	N:510780.23 E:485517.04	17.0'
⑤	39'	N:510867.03 E:485441.31	N:510783.67 E:485520.66	17.0'
⑥	43'	N:510862.45 E:485452.59	N:510787.12 E:485524.29	17.0'



NOTE: VIEW LOOKING TOWARD FRONT OF RSS SLOPE.

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:06pm milmbaugh

DESIGN JMP
DRAWN MLL
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APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

RSS WALL ELEVATION

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 19TH Joseph M. Fusich CE 8152 ADVISORY PROFESSIONAL ENGINEER
6-26-13

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ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
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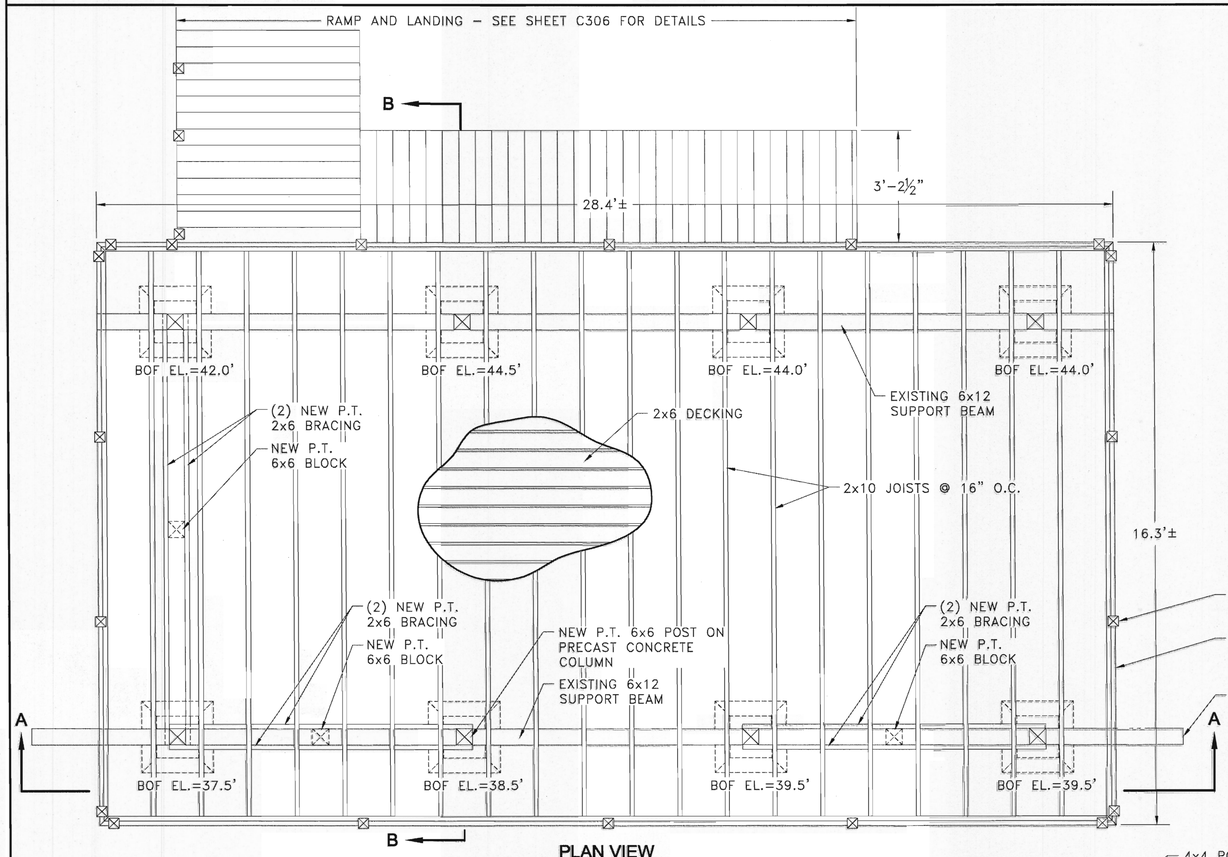
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

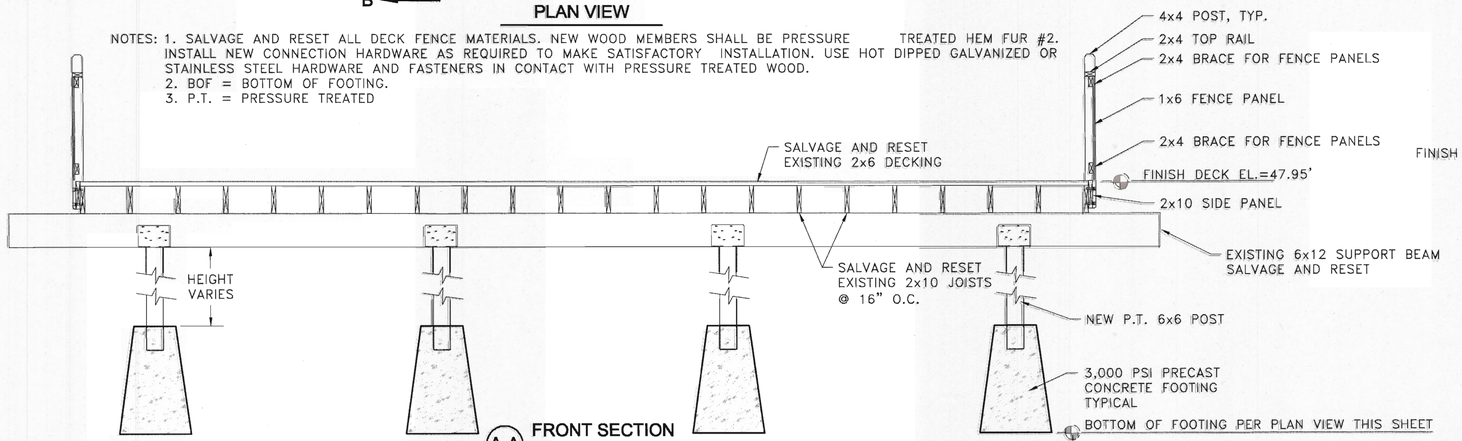
DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C302



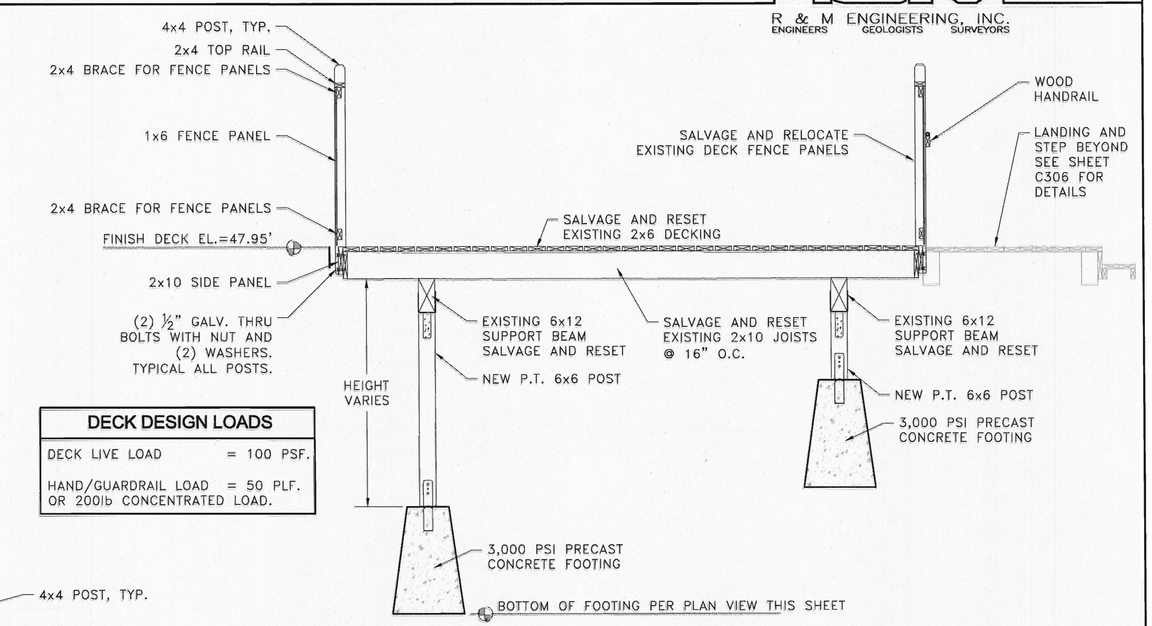
PLAN VIEW

NOTES: 1. SALVAGE AND RESET ALL DECK FENCE MATERIALS. NEW WOOD MEMBERS SHALL BE PRESSURE TREATED HEM FUR #2. INSTALL NEW CONNECTION HARDWARE AS REQUIRED TO MAKE SATISFACTORY INSTALLATION. USE HOT DIPPED GALVANIZED OR STAINLESS STEEL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD.
2. BOF = BOTTOM OF FOOTING.
3. P.T. = PRESSURE TREATED



A-A **FRONT SECTION**

NOTE: NEW P.T. 2x6 BRACING NOT SHOWN FOR CLARITY

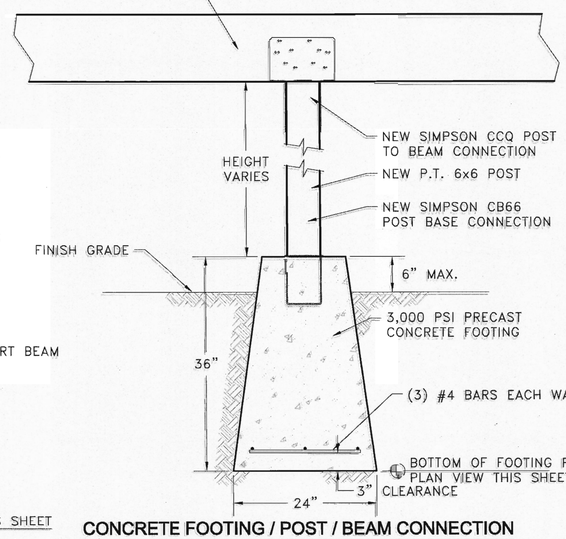


DECK DESIGN LOADS

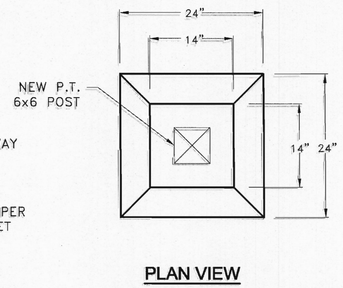
DECK LIVE LOAD	= 100 PSF.
HAND/GUARDRAIL LOAD OR 200lb CONCENTRATED LOAD.	= 50 PLF.

B-B **SIDE SECTION**

NOTE: WOOD RAMP NOT SHOWN FOR CLARITY



CONCRETE FOOTING / POST / BEAM CONNECTION



PLAN VIEW

I:\2013\131353\EP\Deck Details.dwg PLOT: June 26, 2013 at: 1:03pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

DEHART'S WOOD DECK PLAN AND SECTIONS

STATE OF ALASKA 49TH — Joseph M. Fusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER — 6-26-13

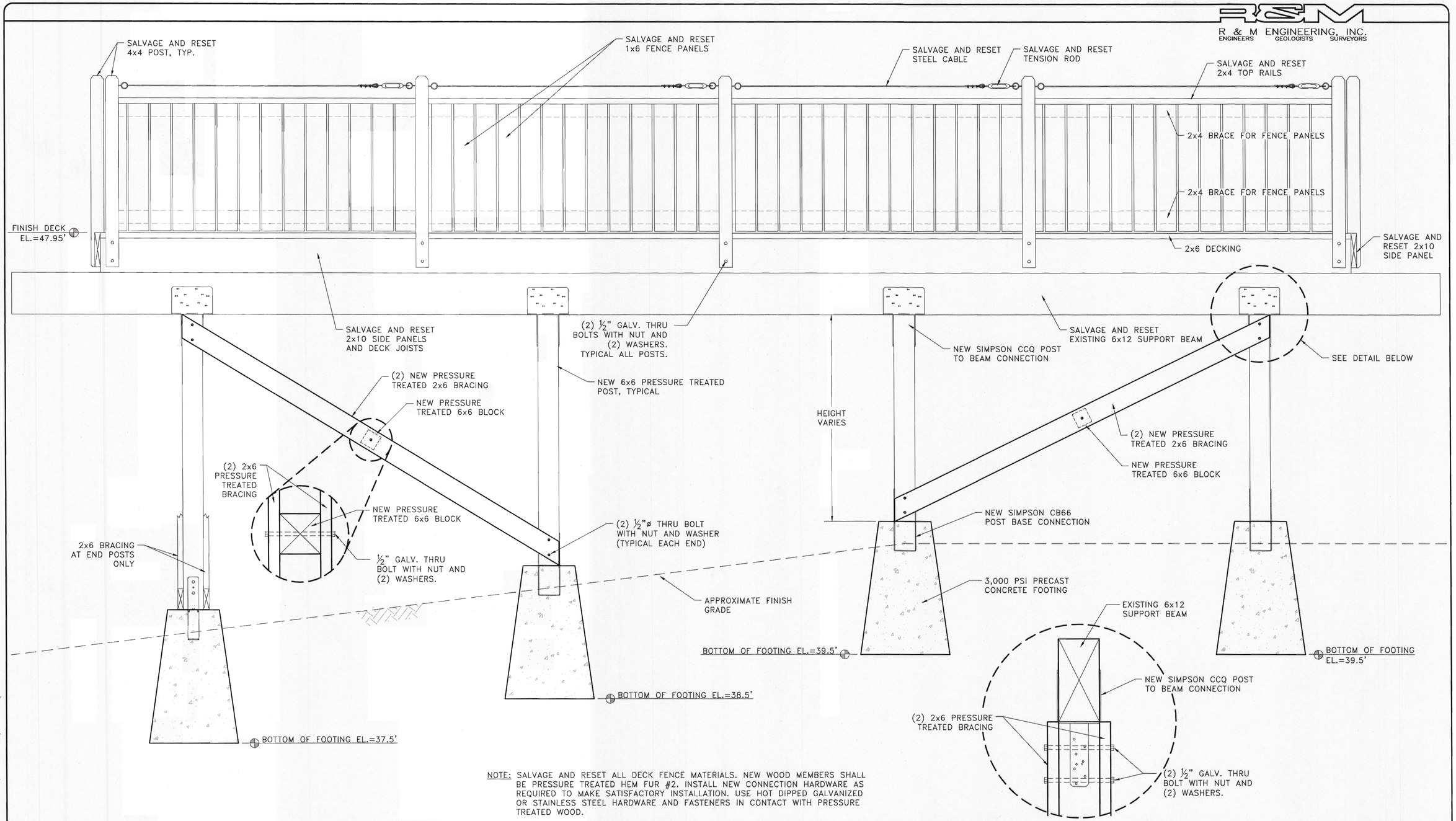
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
JUNEAU, AK. 99801
Phone 907-780-6060
Fax 907-780-4611
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C303



NOTE: SALVAGE AND RESET ALL DECK FENCE MATERIALS. NEW WOOD MEMBERS SHALL BE PRESSURE TREATED HEM FUR #2. INSTALL NEW CONNECTION HARDWARE AS REQUIRED TO MAKE SATISFACTORY INSTALLATION. USE HOT DIPPED GALVANIZED OR STAINLESS STEEL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD.

I:\2013\131353\EP\Deck Details.dwg PLOT: June 26, 2013 at: 1:03pm mlimbaugh

DESIGN	JMP
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CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

DEHART'S WOOD DECK FRONT ELEVATION

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
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rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

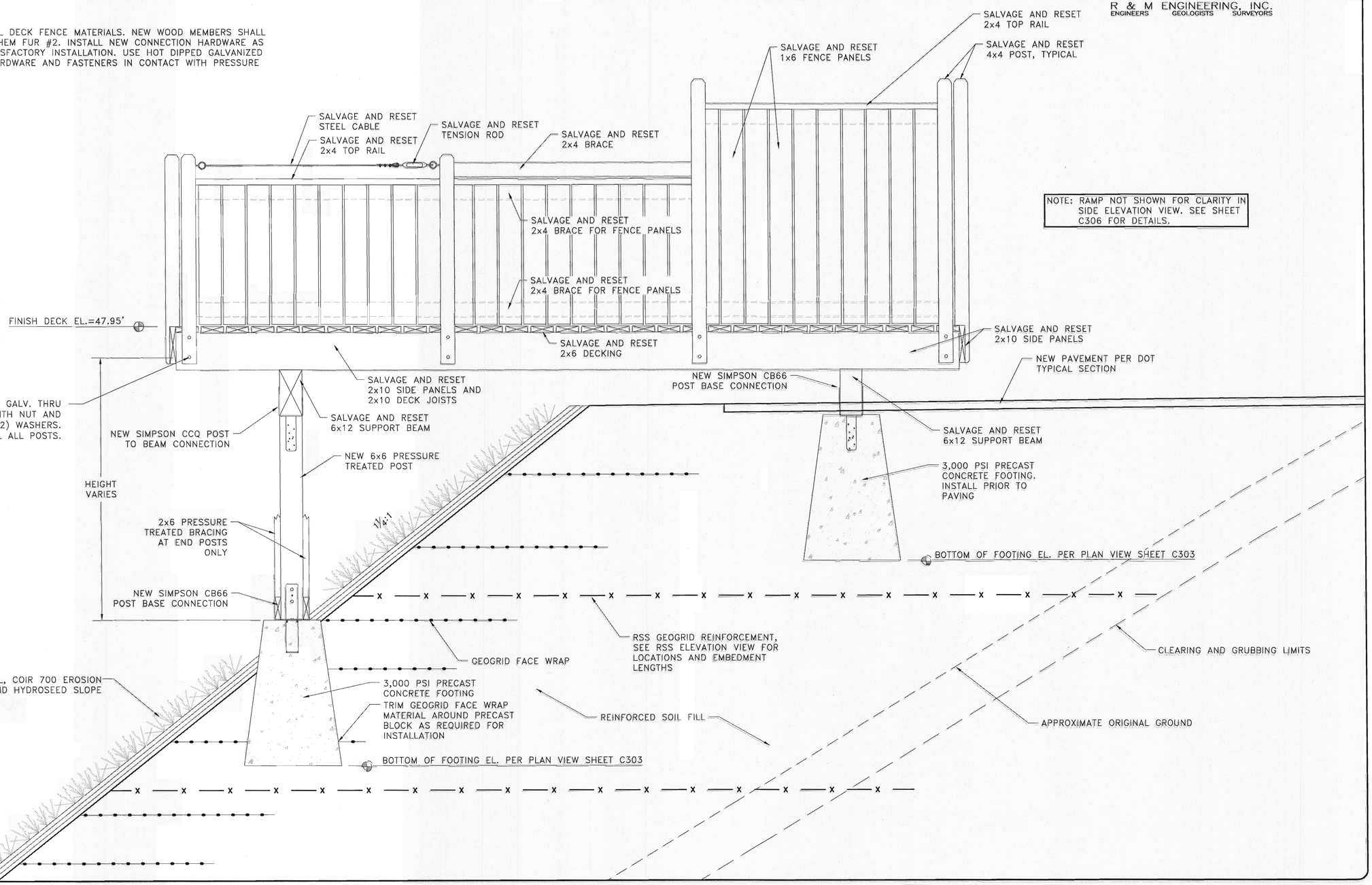
STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C304

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

NOTE: SALVAGE AND RESET ALL DECK FENCE MATERIALS. NEW WOOD MEMBERS SHALL BE PRESSURE TREATED HEM FUR #2. INSTALL NEW CONNECTION HARDWARE AS REQUIRED TO MAKE SATISFACTORY INSTALLATION. USE HOT DIPPED GALVANIZED OR STAINLESS STEEL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD.



NOTE: RAMP NOT SHOWN FOR CLARITY IN SIDE ELEVATION VIEW. SEE SHEET C306 FOR DETAILS.

I:\2013\131353\EP\Deck Details.dwg PLOT: June 26, 2013 at: 1:03pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

DEHART'S WOOD DECK SIDE ELEVATION

STATE OF ALASKA 49TH Joseph M. Fusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 6-26-13

R & M ENGINEERING, INC.
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rmengineering@rmjuneau.com

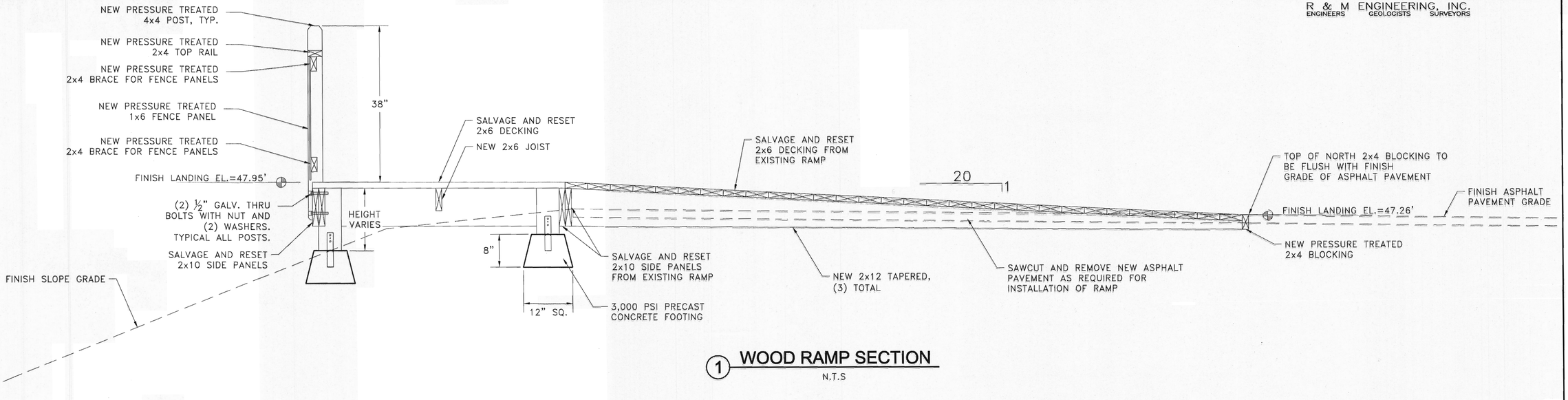
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

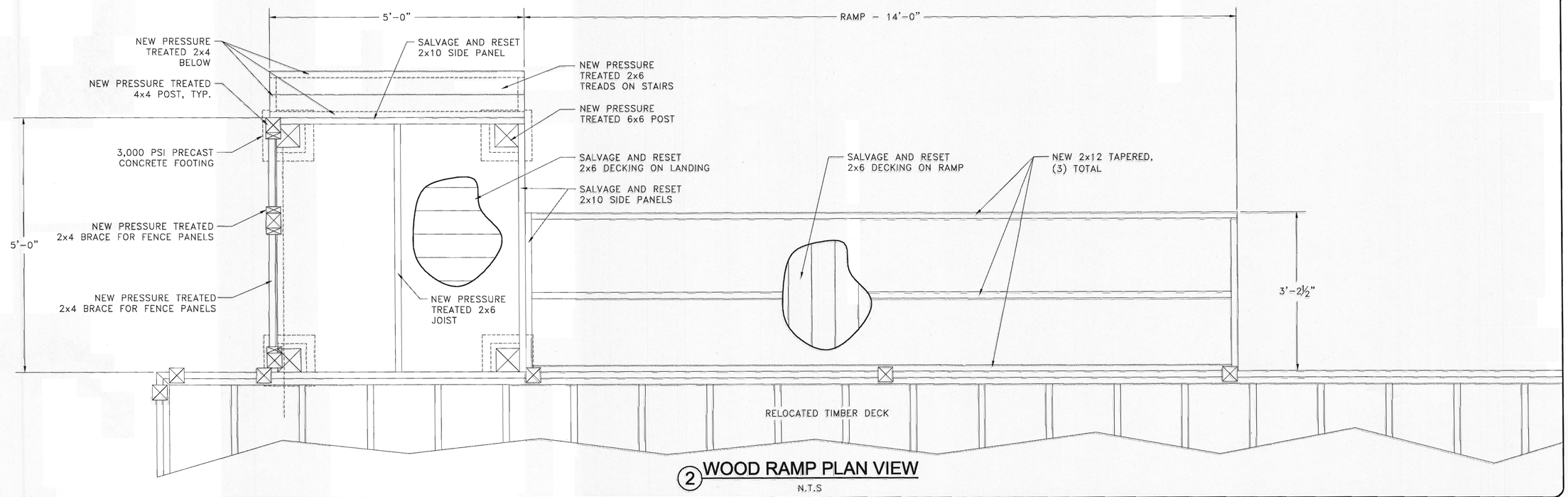
DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C305

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS



1 WOOD RAMP SECTION
N.T.S



2 WOOD RAMP PLAN VIEW
N.T.S

I:\2013\131353\EP\Deck Details.dwg PLOT: June 26, 2013 at: 1:04pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

DEHART'S WOOD DECK
WOOD RAMP PLAN AND SECTION

STATE OF ALASKA 49TH
Joseph M. Plusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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Fax 907-780-4611
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C306

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS

111735
DEHART'S

EXISTING DECK

RELOCATED DECK

ALUMINUM SHED

ABOVE GROUND FUEL TANK

ABOVE GROUND FUEL TANK

HARRI COMMERCIAL MARINE

PORTABLE BOAT SHELTER

A B C D E F G H I J K L

45 40 35 30

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:06pm milmbough

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

SITE SECTION LOCATIONS

GRAPHIC SCALE
0' 5' 10' 20' 40'
CONTOUR INTERVAL = 1 FOOT

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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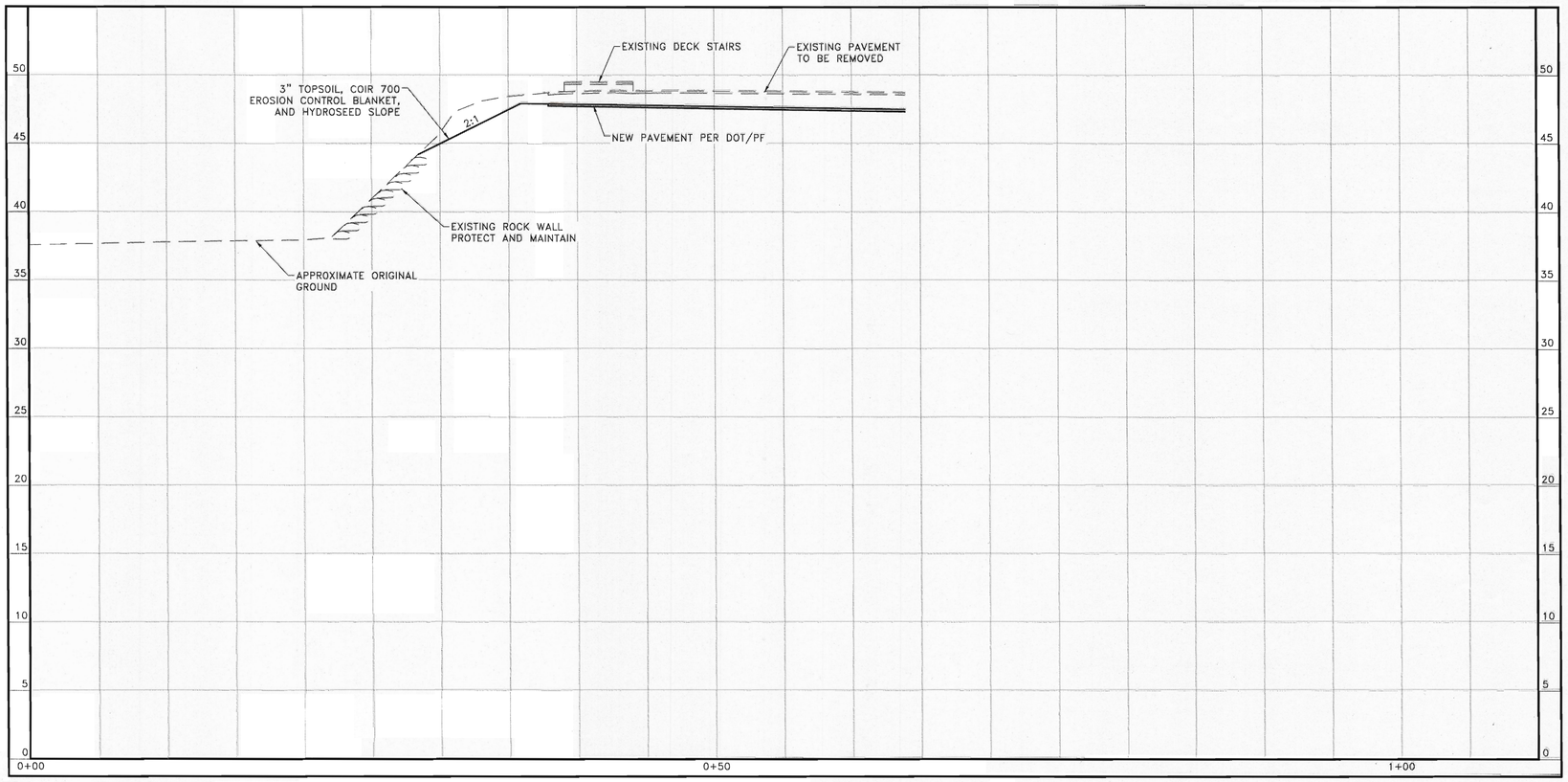
Fax 907-780-4611
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C400



SECTION A–A

I:\2013\13135\EP\131353ek.dwg PLOT: June 26, 2013 at: 1:06pm mlimbaugh

DESIGN JMP
DRAWN MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION A-A

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Parisich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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Fax 907-780-4611
rmengineering@rmjuneau.com

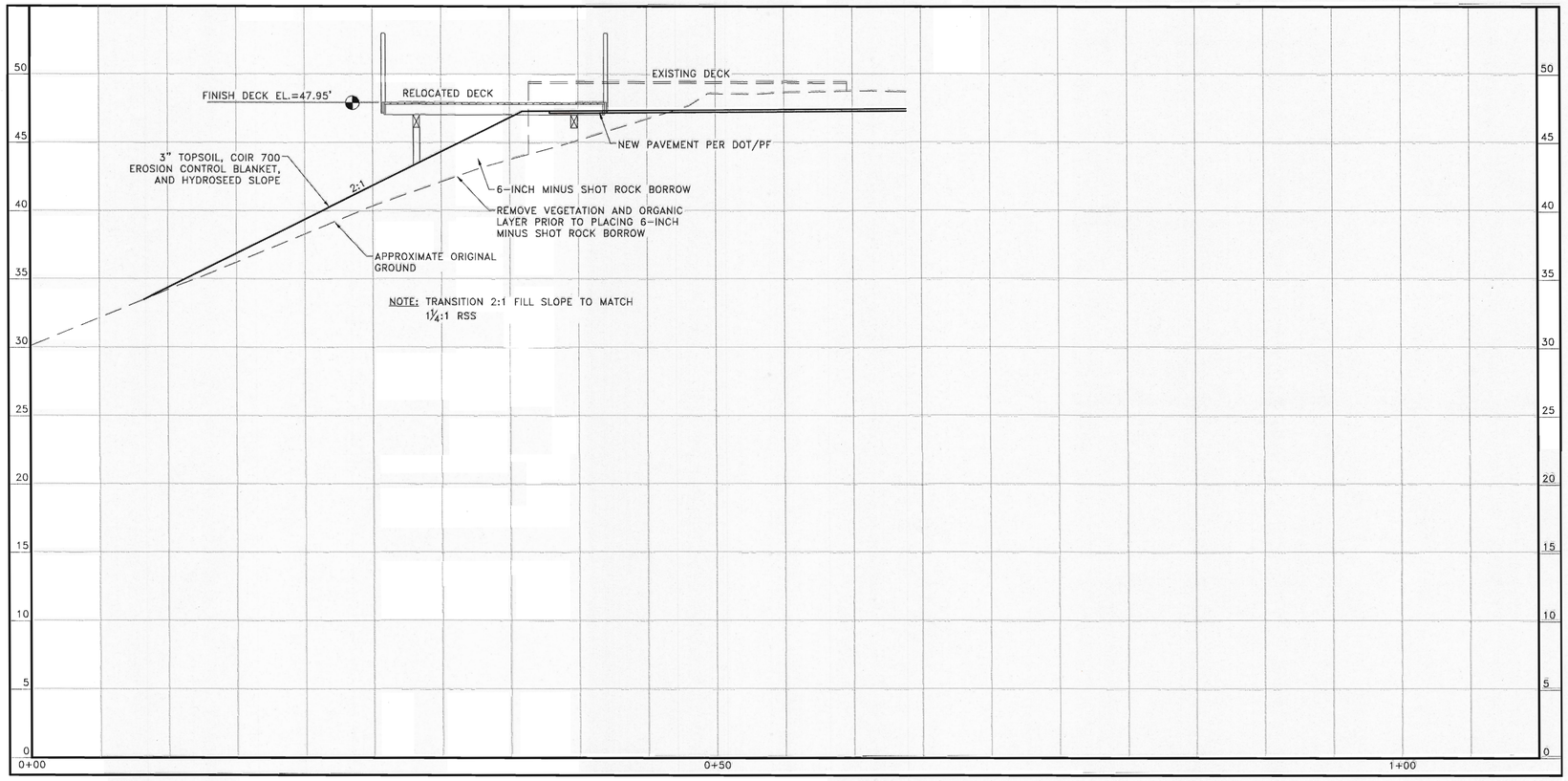
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C401

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS



SECTION B-B

I:\2013\131355\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:07pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION B-B

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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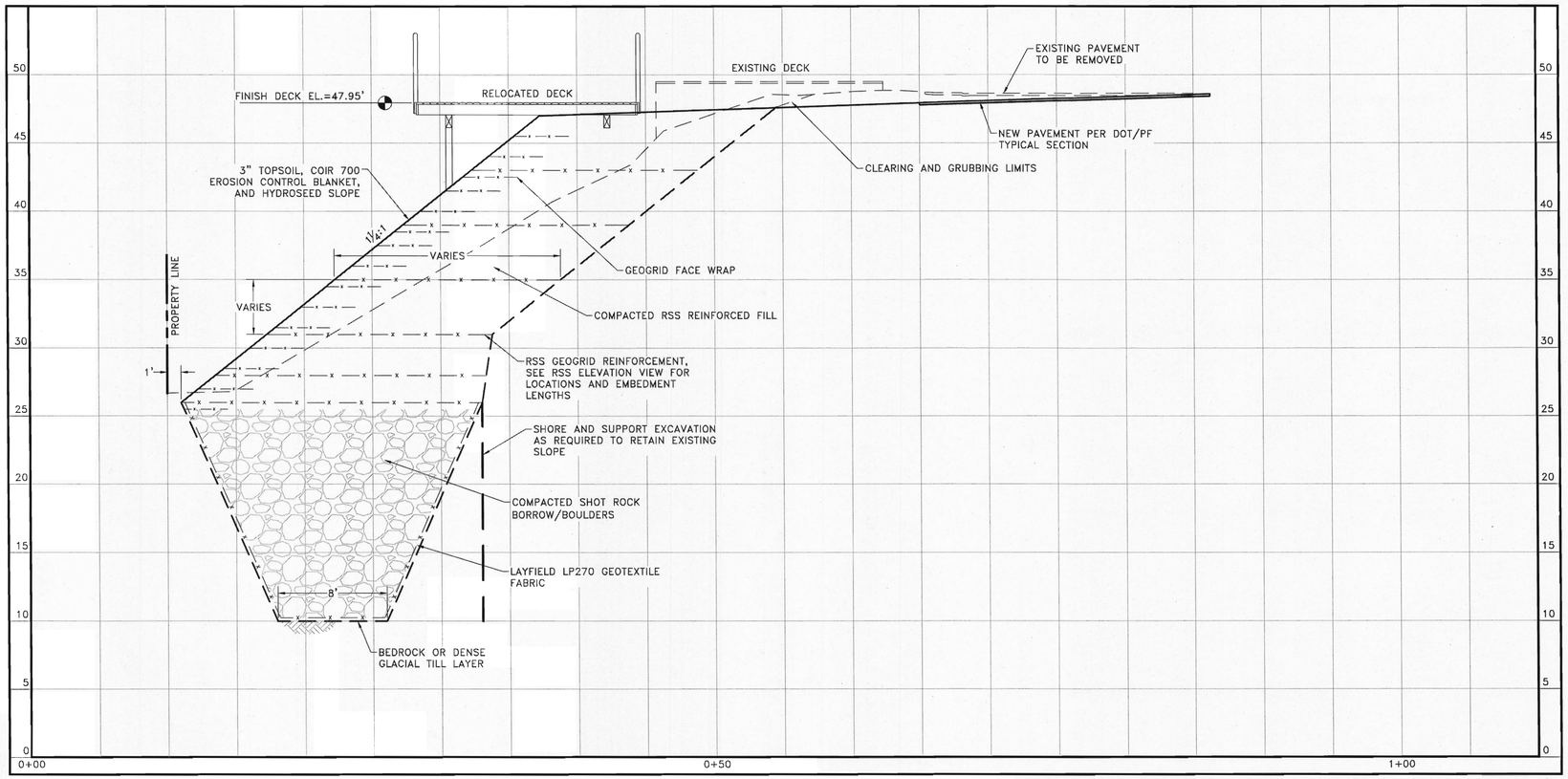
Fax 907-780-4611
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C402



SECTION C-C

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:07pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION C-C

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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Fax 907-780-4611
rmengineering@rmjuneau.com

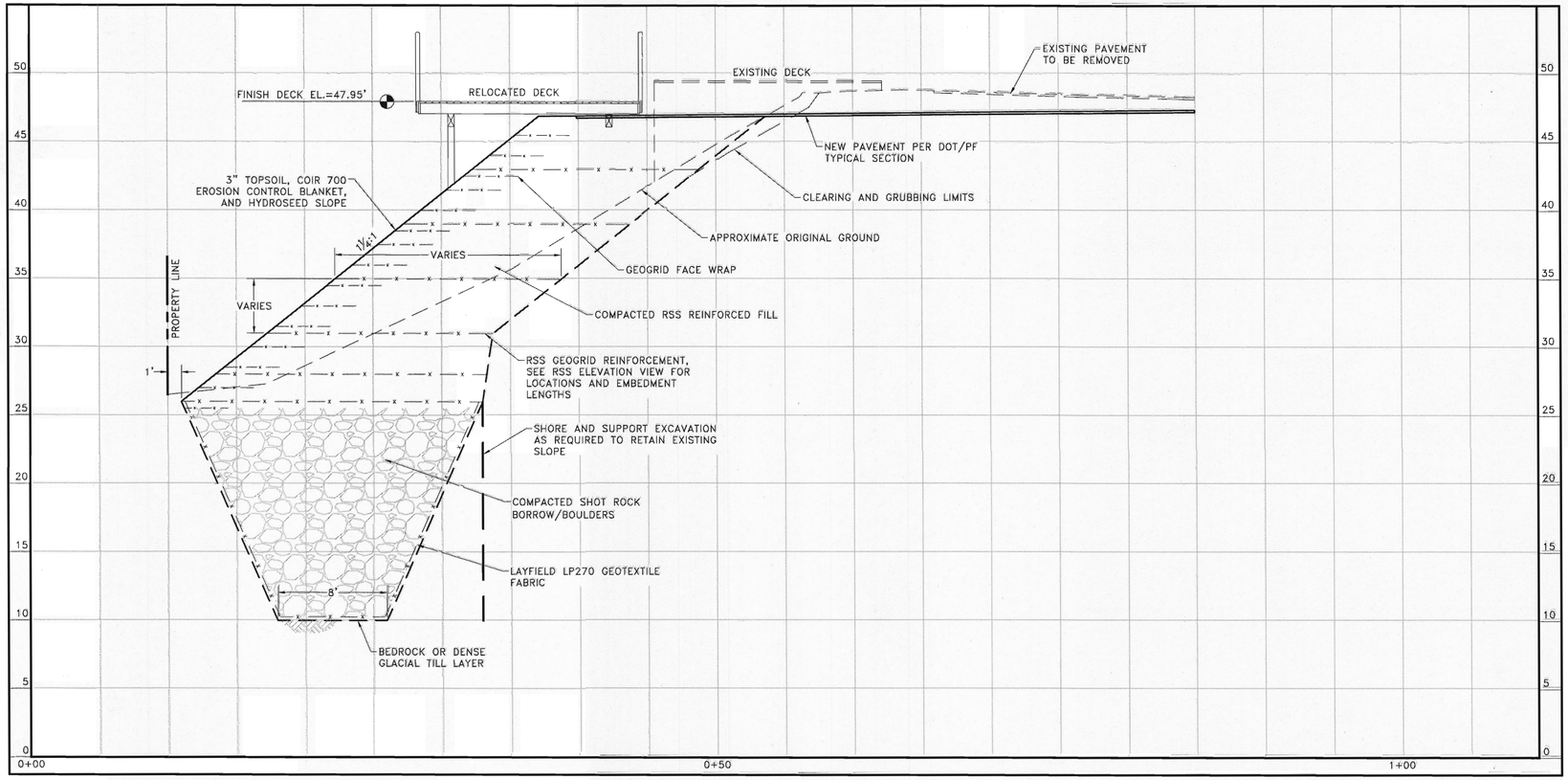
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C403

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS



SECTION D-D

I:\2013\131353\EP\131353ek.dwg PLOT: June 26, 2013 at: 1:07pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION D-D

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
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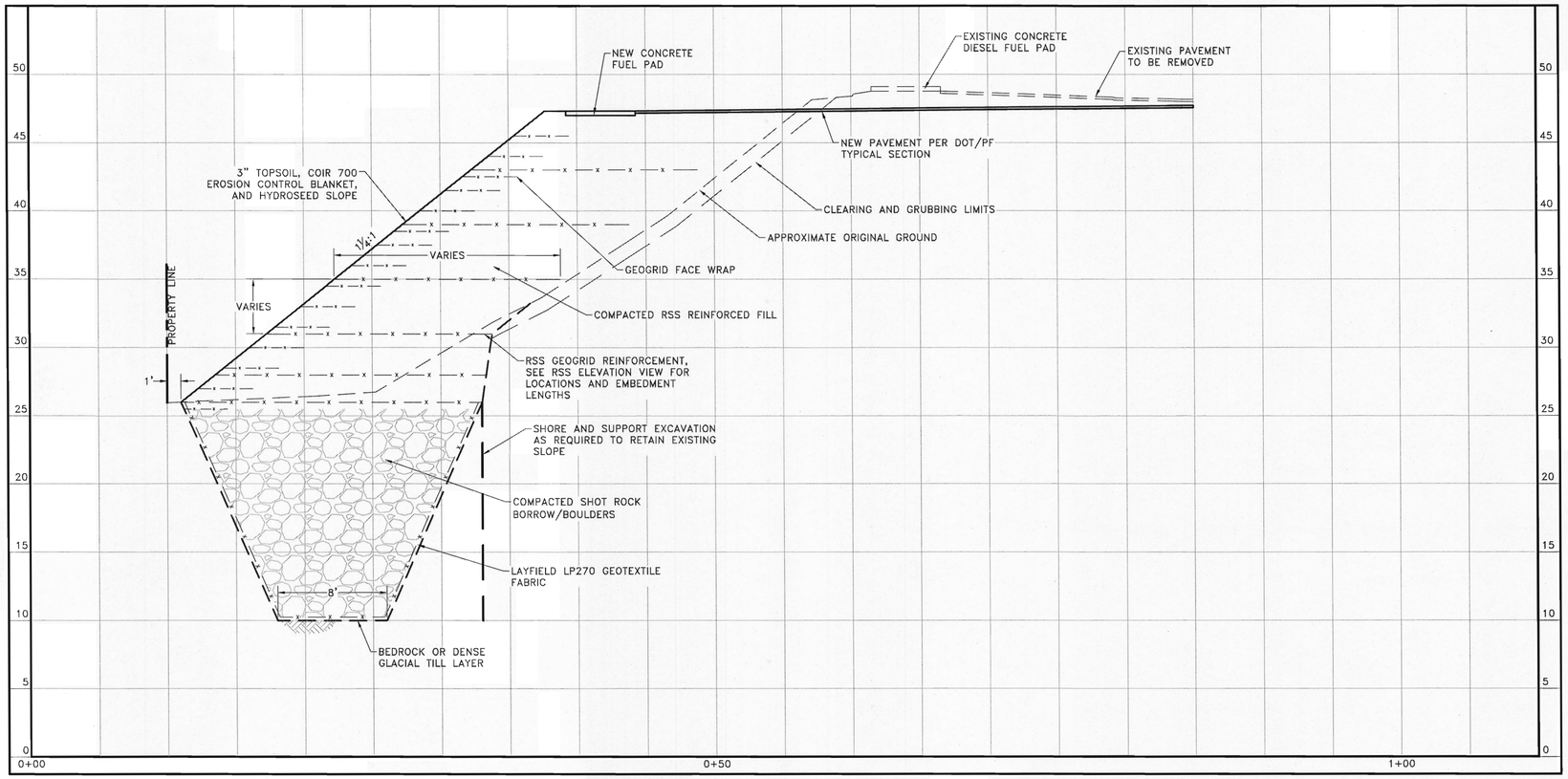
Phone 907-780-6060
Fax 907-780-4611
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C404



SECTION E-E

I:\2013\131353\EP\131353ek.dwg PLOT: June 26, 2013 at: 1:07pm mlimbough

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION E-E

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
JUNEAU, AK. 99801
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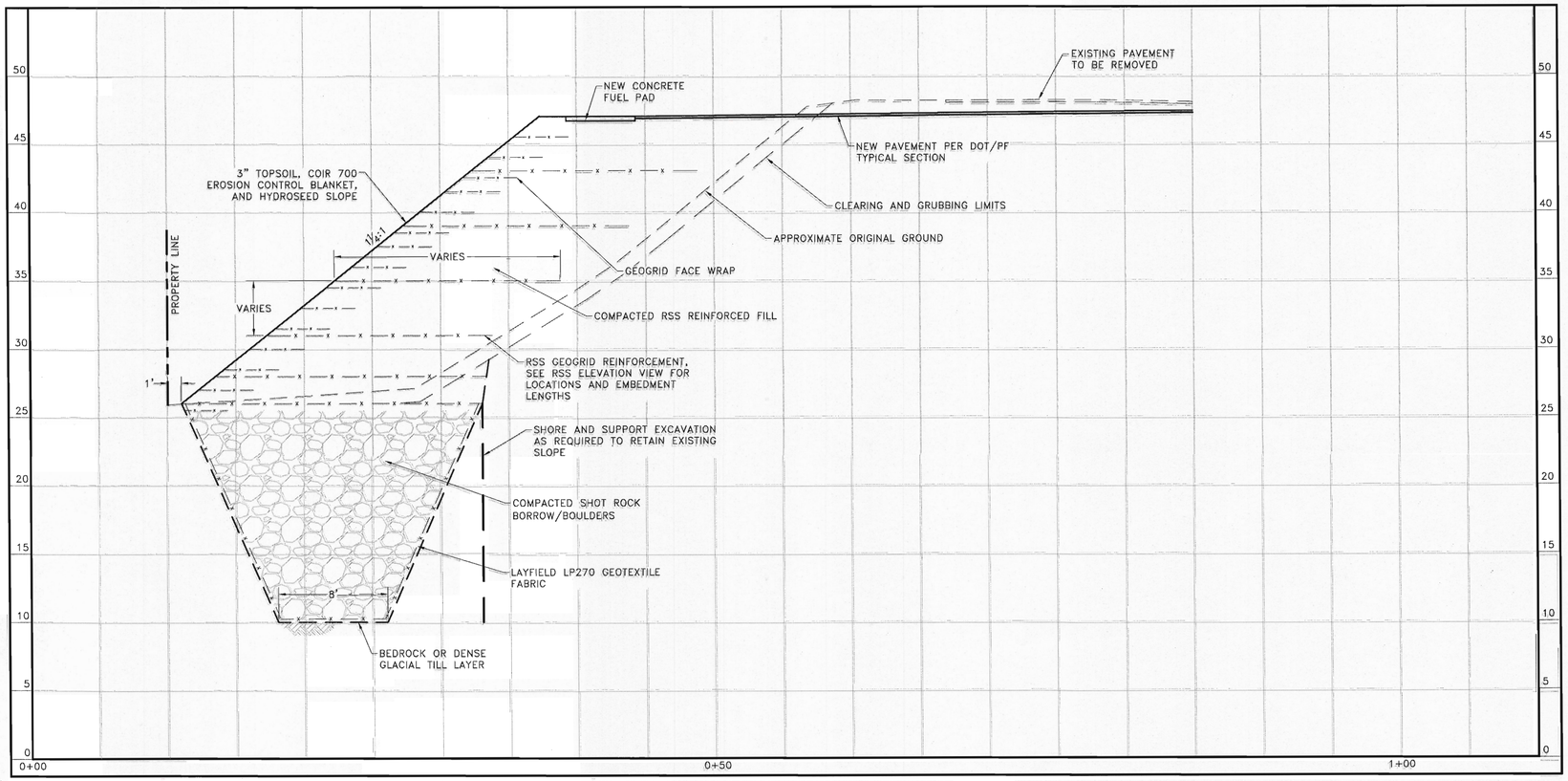
Fax 907-780-4611
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C405



SECTION F-F

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:07pm millmbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION F-F

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA
49TH
Joseph M. Parisich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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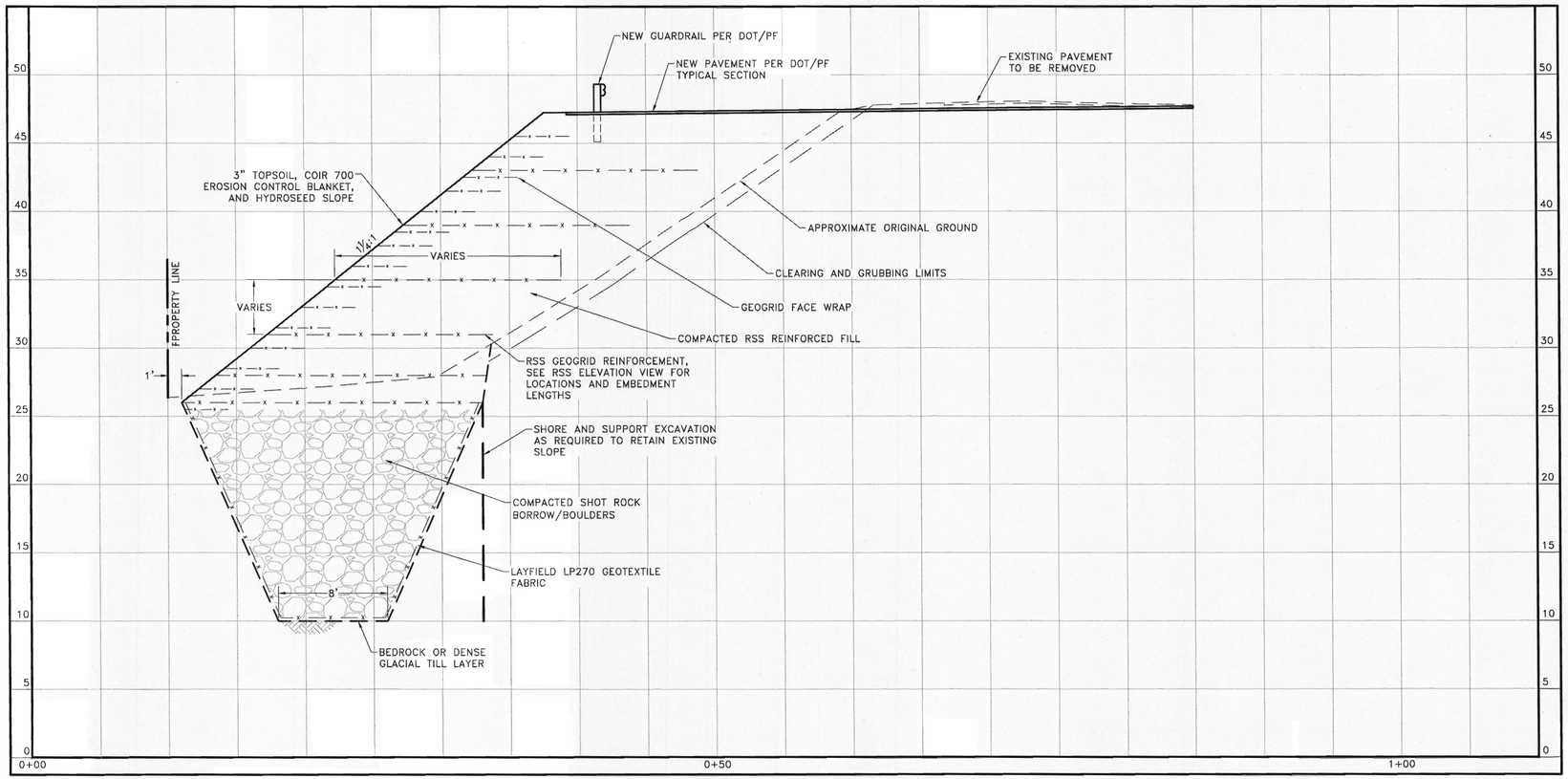
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C406



SECTION G–G

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:08pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION G-G

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Plusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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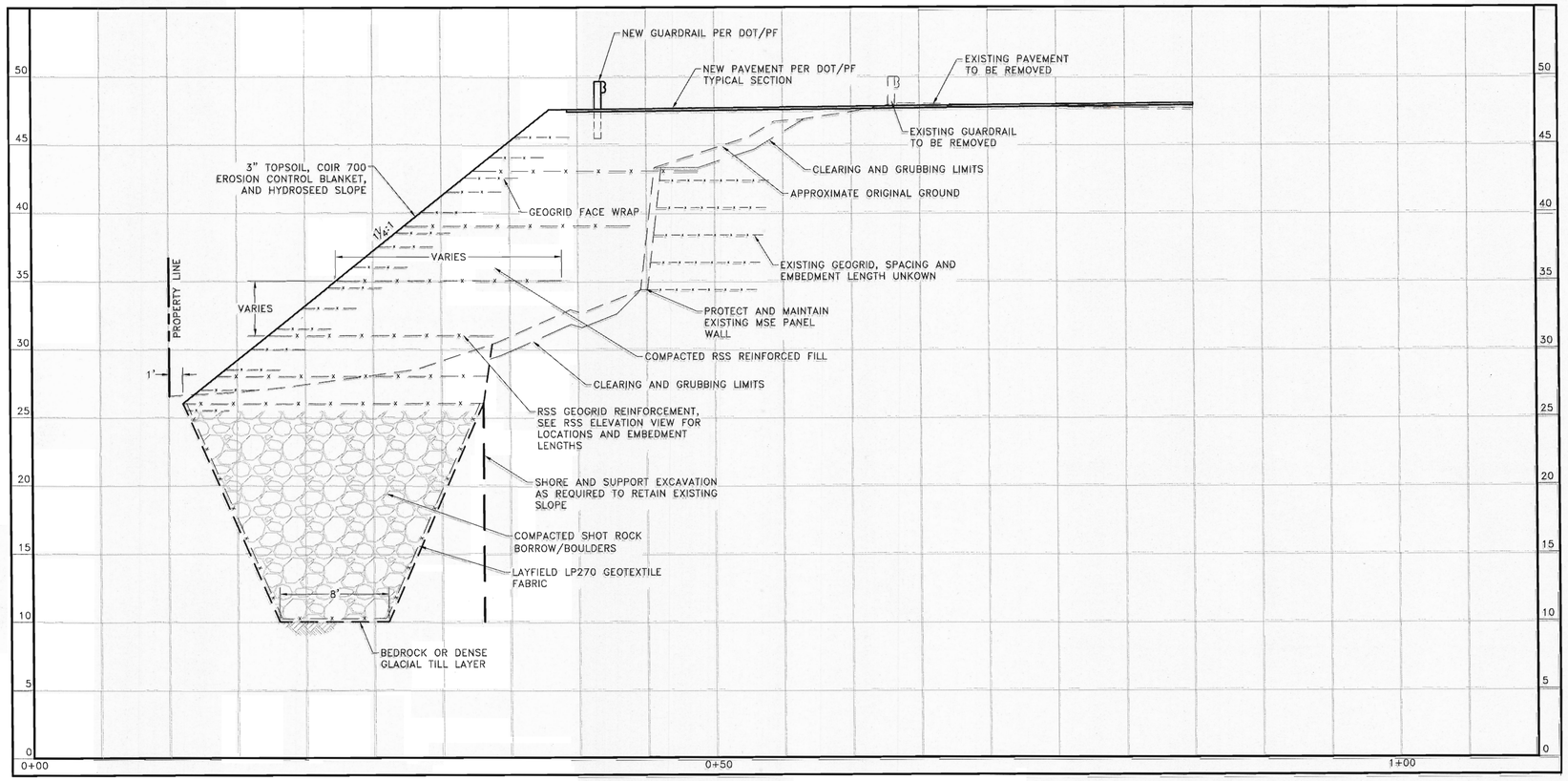
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C407



SECTION H–H

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:08pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION H-H

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
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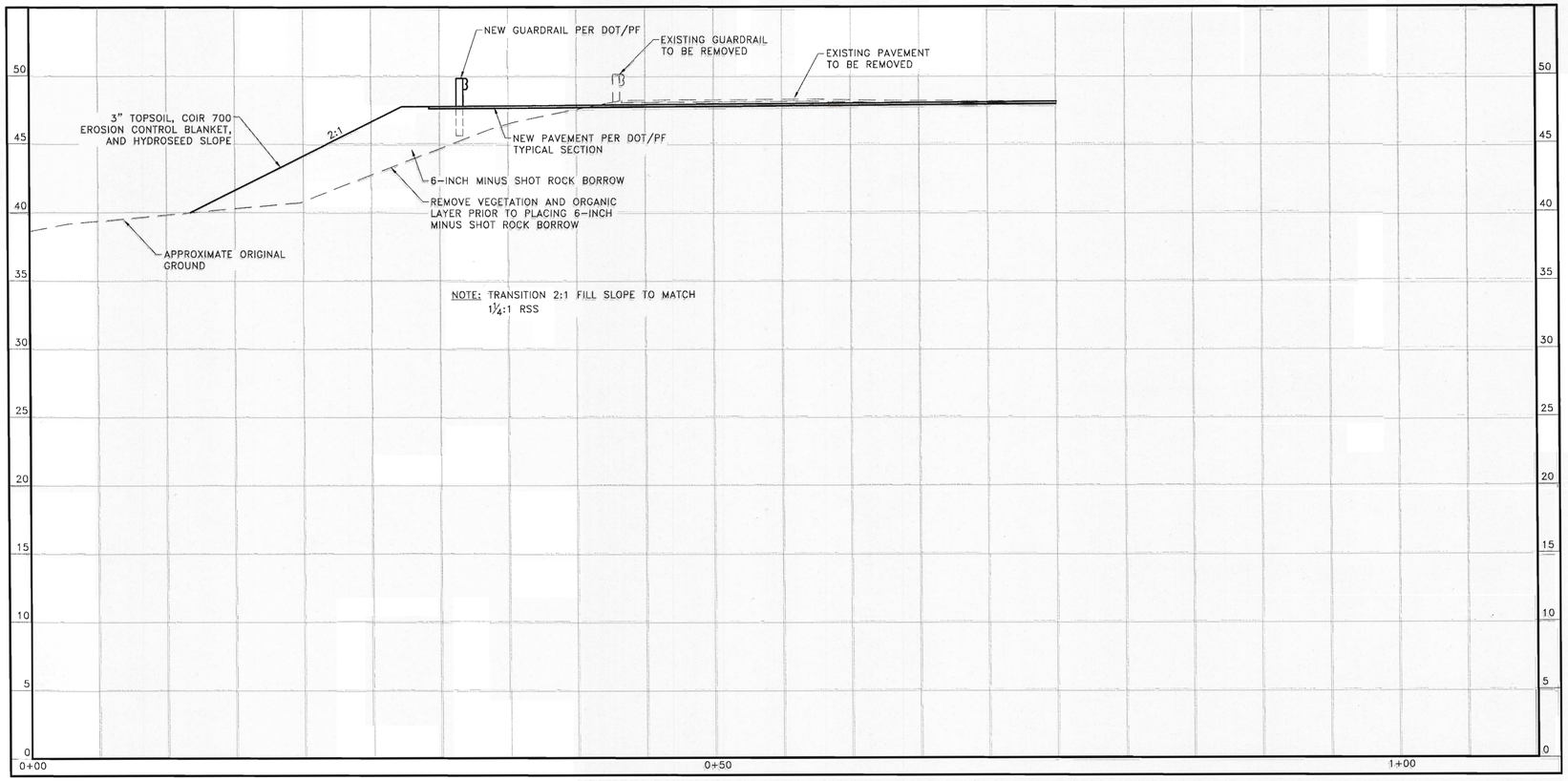
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C408



SECTION I–I

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:08pm milmbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION I-I

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH
Joseph M. Frusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
6-26-13

R&M
R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
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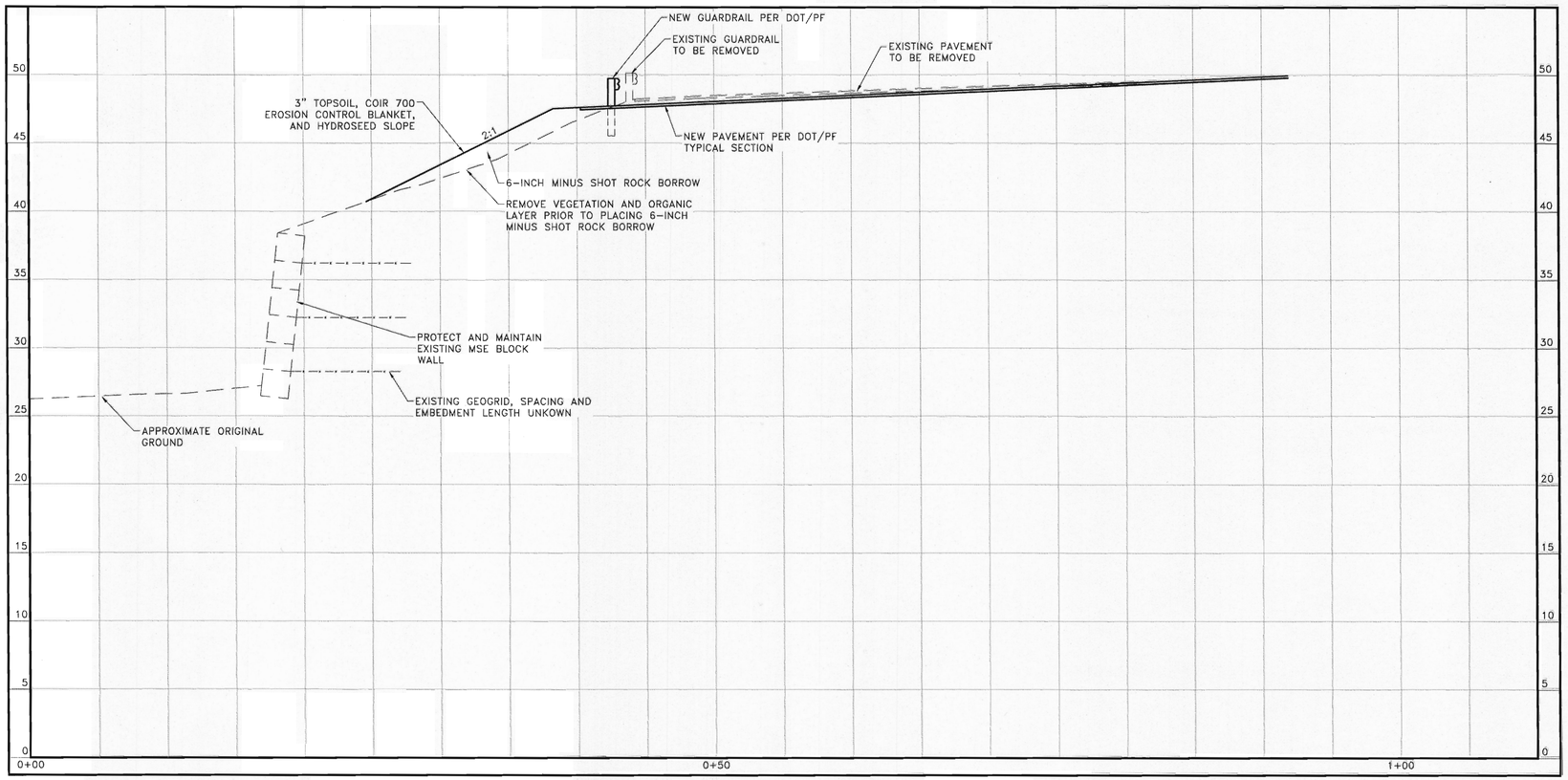
rmengineering@rmjuneau.com

DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C409



SECTION J–J

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:08pm mlimbaugh

DESIGN	JMP
DRAWN	MLL
CHECK	JMP
APPROVED	JMP
FILE:	

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION J-J

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER Joseph M. Parsich CE 8102
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
6205 GLACIER HIGHWAY
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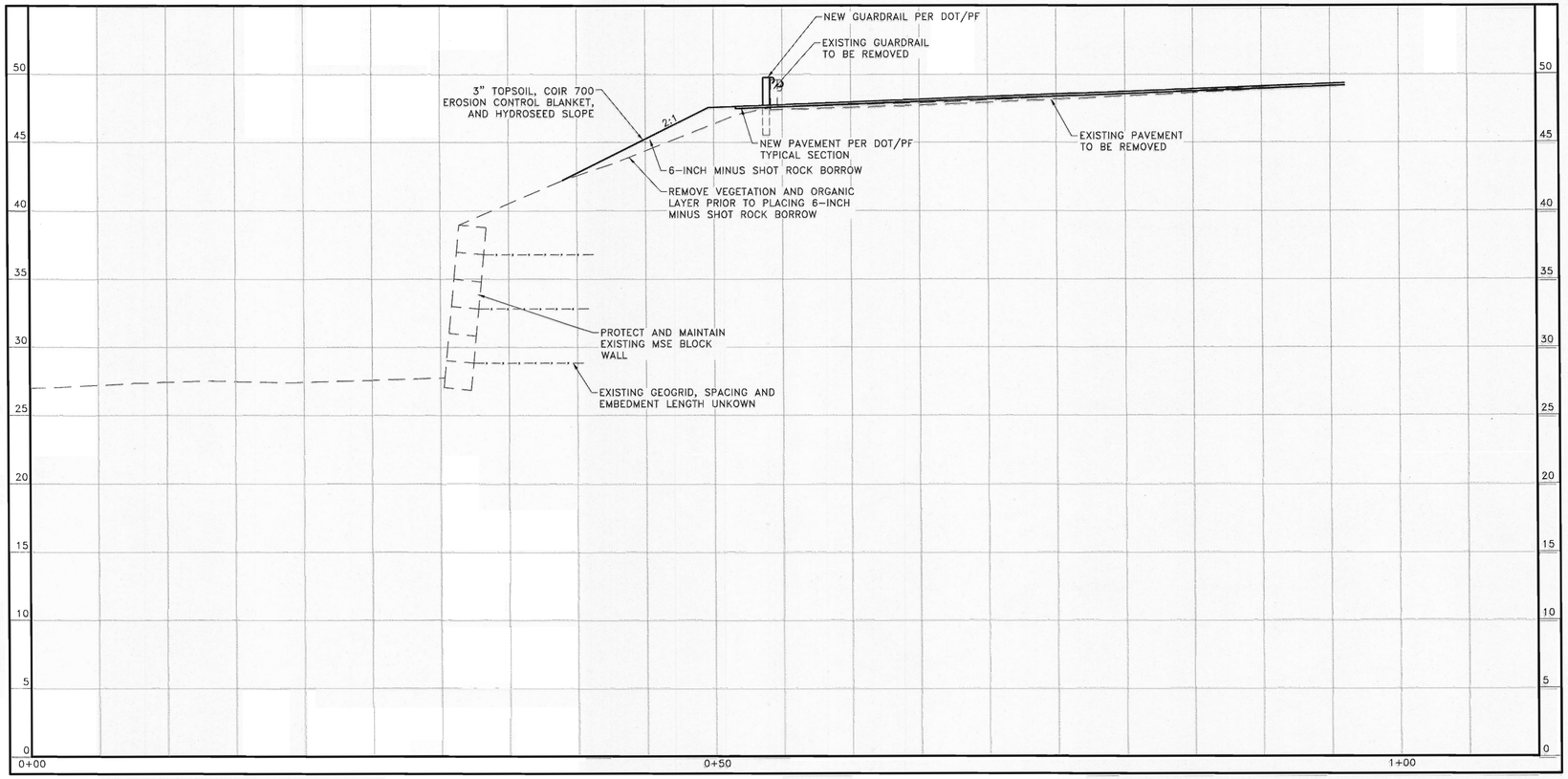
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C410



SECTION K–K

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:09pm mlimbaugh

DESIGN JMP
DRAWN MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION K-K

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA 49TH REGISTERED PROFESSIONAL ENGINEER
Joseph M. Pusich
CE 8152
6-26-13

R & M ENGINEERING, INC.
ENGINEERS GEOLOGISTS SURVEYORS
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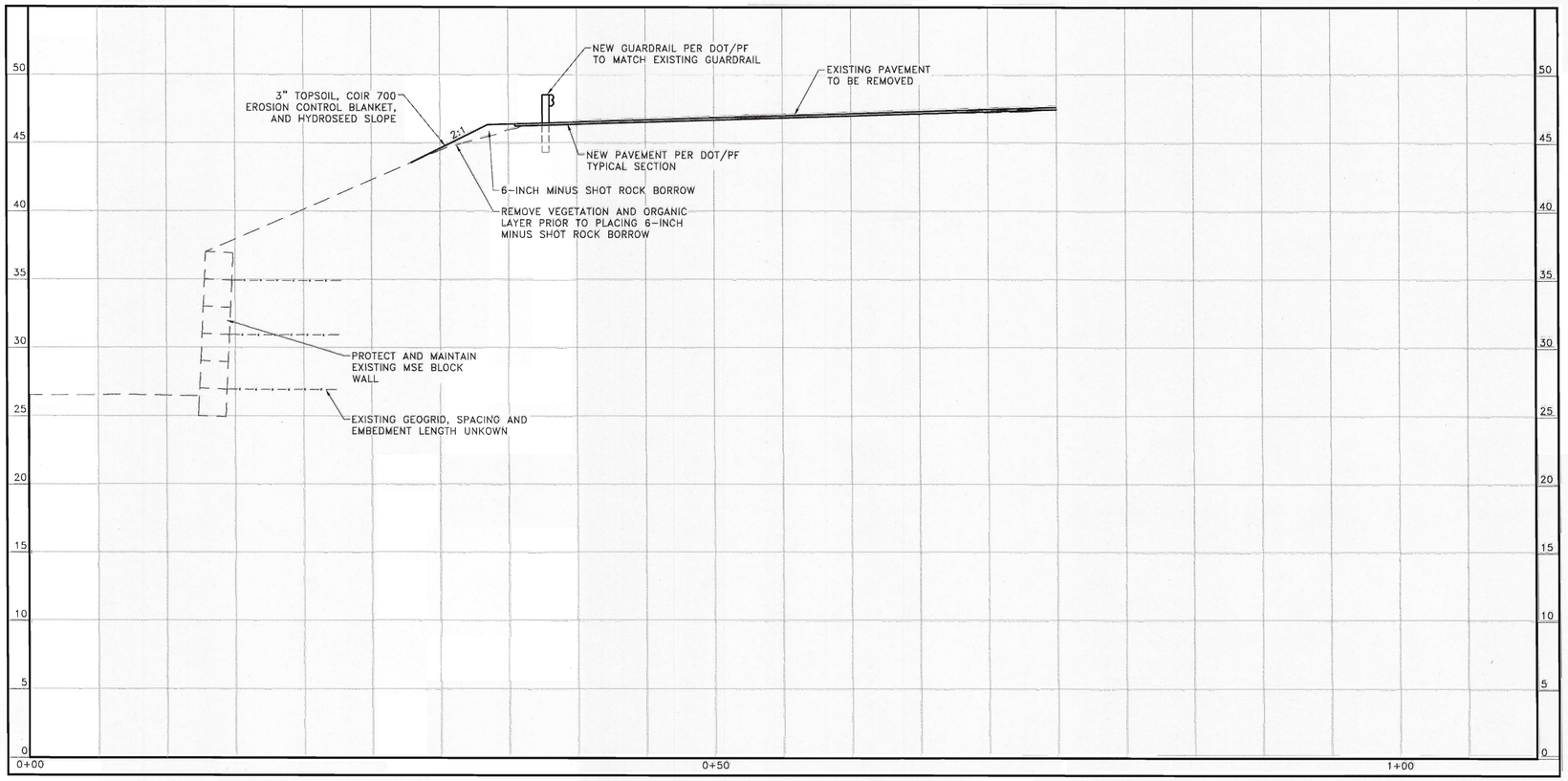
DEHART'S ACCESS EXPANSION
GLACIER HIGHWAY & BACK LOOP ROAD
INTERSECTION SAFETY IMPROVEMENTS

STATE OF ALASKA DOT/PF PROJECT No. 69003

DATE: JUNE 26, 2013
R&M NO. 131353

SHEET C411



SECTION L-L

I:\2013\131353\EP\131353wk.dwg PLOT: June 26, 2013 at: 1:09pm mlimbaugh

DESIGN JMP
DRAWN MLL
CHECK JMP
APPROVED JMP
FILE:

No.	DATE	REVISION	BY	APRVD.

CROSS SECTION L-L

GRAPHIC SCALE
0' 2.5' 5' 10' 20'

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8150
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