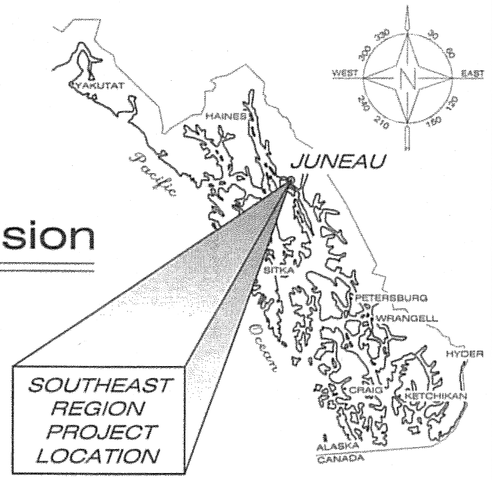
State of Alaska

Department of Transportation and Public Facilities

Southeast Region Design and Engineering Services Division

JUNEAU, ALASKA

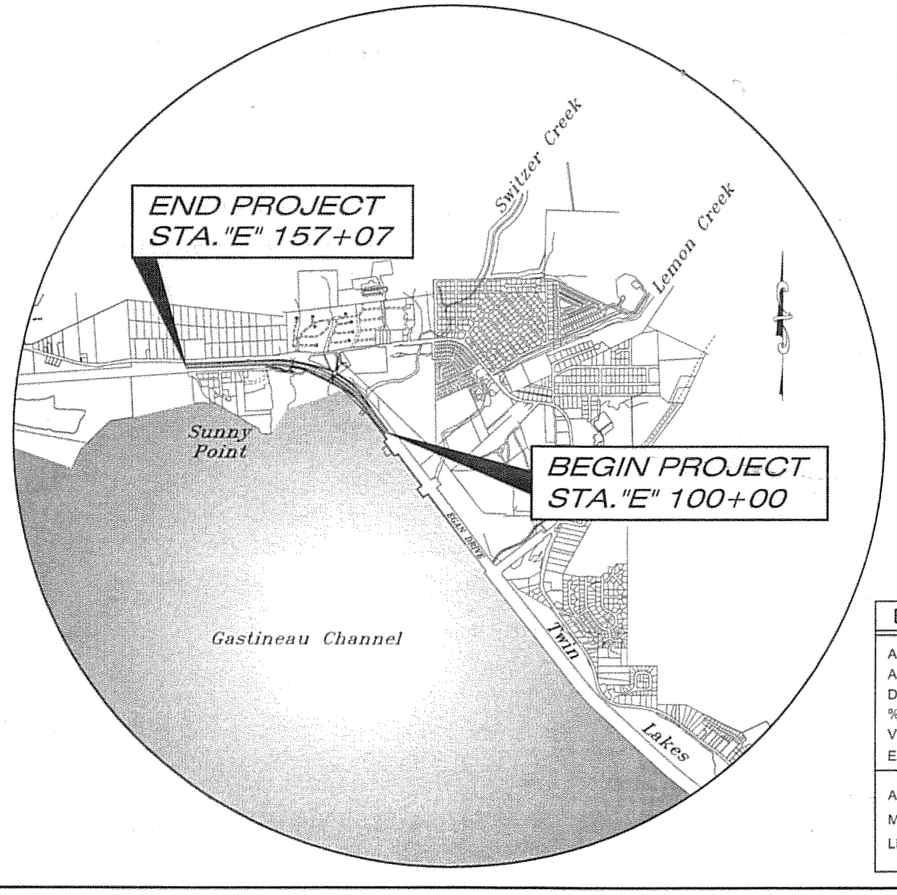
SUNNY POINT INTERSECTION IMPROVEMENTS



As-Built Plans
Contractor: Secon
Project Engineer: Thad Hopper
Begin Date: April 9, 2007
End Date: September 7, 2010

PROJECT No. 71431
STP-093-2(31)

RSA No. 69025 ACS, RSA No. 69026 AEL&P, RSA No. 69030 CBJ, RSA No. 69031 GCI



THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

C-03.10	D-26.02	G-09.04S	L-03.10	S-20.10	T-22.03
C-04.12	D-30.01	G-10.01	L-23.01	S-22.00	T-23.00
C-05.10	D-35.00	G-28.00	L-24.00	S-23.00	T-31.00
D-01.02	D-37.01	G-31.00	L-25.00	S-30.03	T-52.15
D-04.21	E-00.00	G-46.10	L-26.00	S-32.00	U-03.00
D-20.03	E-13.00	I-20.13	M-01.00	T-05.01	
D-22.01	F-01.01	I-21.01	S-00.10	T-06.00	
D-23.01	G-00.01	I-22.01	S-01.00	T-20.02	
D-24.00	G-04.06S	I-30.10	S-05.01	T-21.02	

DESIGN DESIGNATION	
A.D.T. 2006	26,490
A.D.T. 2026	39,360
D.H.V. 10%	3,150
%T.	3.6%
V. (MPH)	70
EAL (10 YR.)	6,450,000

ALASKA ROUTE 7
MILE POINT 6.15 TO 7.19
LENGTH OF PROJECT - 5,507 FT
1.04 MILES

PATH: I:\2005\051365\Design Drawings\A-Cover.dwg
PLOT: Fri, 04/Aug/06 01:49PM Administrator TAB: A1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION–SE REGION

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [signature] Date 10/14/10

8406

PLANS PREPARED BY: R&M ENGINEERING, INC.

APPROVED BY:
Jack D. Beedle 9/8/06
JACK D. BEEDLE, P.E.
REGIONAL PRE–CONSTRUCTION ENGINEER DATE

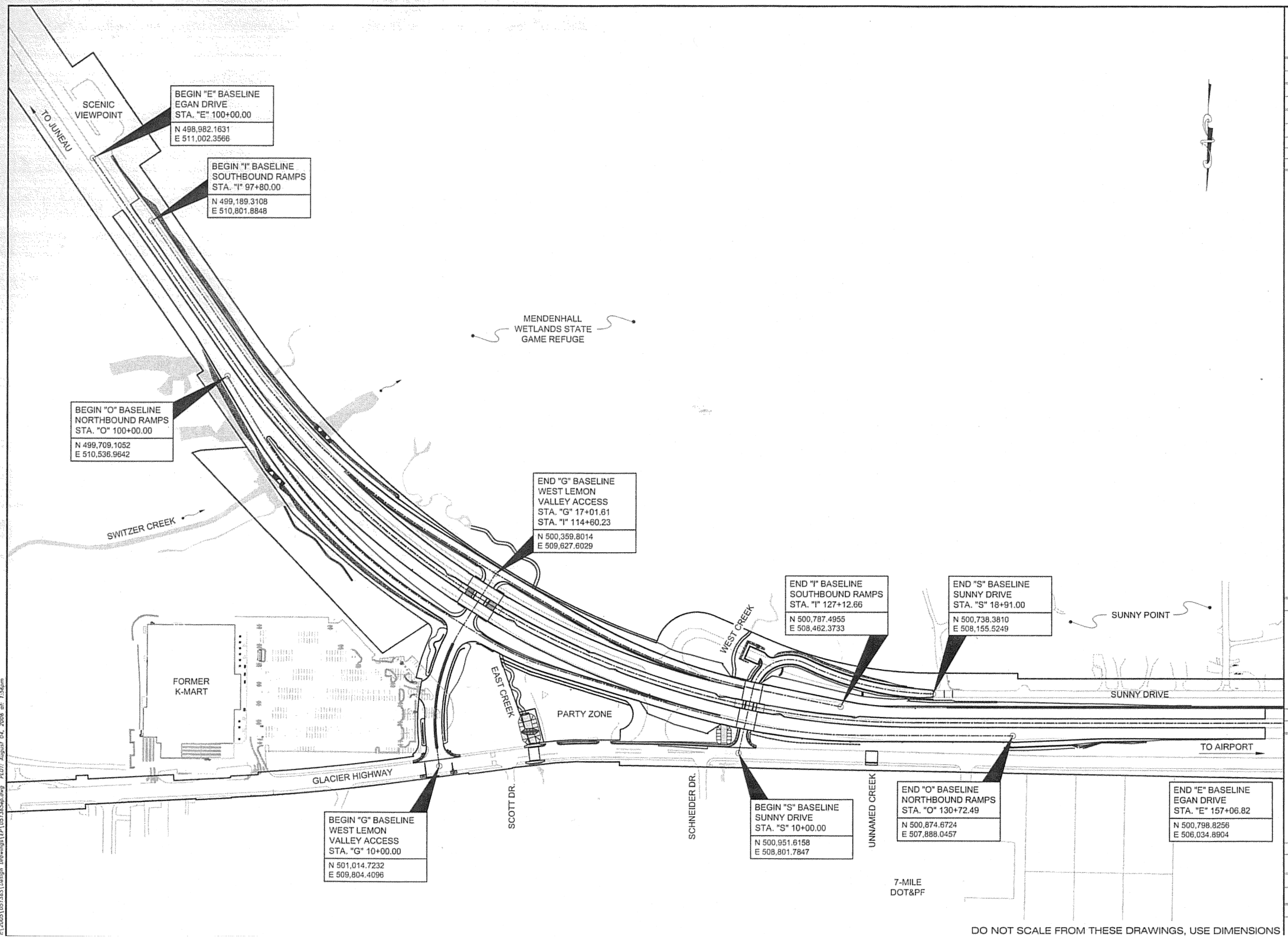
APPROVED:
[signature] 9/8/06
MALCOLM A. MENZIES, P.E., L.S.
DIRECTOR, SOUTHEAST REGION DATE

CERTIFIED TRUE & CORRECT AS–BUILT OF ACTUAL FIELD CONDITION:
[signature] for 01/26/2011
CONSTRUCTION PROJECT MANAGER DATE

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A2	LAYOUT PLAN
A3	ALIGNMENT TABLES
A4	SURVEY CONTROL PLAN
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C1	ESTIMATE OF QUANTITIES & BASIS OF ESTIMATE
D1-D6	MISCELLANEOUS SUMMARIES
E1-E9	CONSTRUCTION SEQUENCING - STAGE ONE
E10-E19	CONSTRUCTION SEQUENCING - STAGE TWO
E20-E25	CONSTRUCTION SEQUENCING - STAGE THREE
E26-E33	CONSTRUCTION SEQUENCING - STAGE FOUR
E34	CONSTRUCTION SEQUENCING - STAGE FIVE
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F31	SUNNY DRIVE WETLANDS RESTORATION
F32	SCHNEIDER DRIVE SEWER PLAN & PROFILE
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U12-U15	CULVERT INSTALLATION SEQUENCE PLANS
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	A1	269



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Layout Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8132
REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

LAYOUT PLAN

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
A2	269

"E" ALIGNMENT TABLE (EGAN DRIVE)

ITEM	L1			C2	L3	
CONTROL POINT	BOP	PC	RADIUS	PI	PT	EOP
STATION	100+00.00	108+62.08	N/A	123+09.91	135+27.43	157+06.82
NORTHING	498982.1631	499684.1453	498087.8725	500863.0940	500837.4408	500798.8256
EASTING	511002.3566	510501.9498	508262.6613	509661.5384	508213.9357	506034.8904
DIRECTION	N 35°28'59" W				S 88°59'05" W	
DISTANCE	862.08				2179.39	
DEFLECTION ANGLE				55°31'56"		
DELTA ANGLE			55°31'56"			
DEGREE OF CURVE - ARC			02°05'01"			
CHORD DIRECTION			N63°14'57"W			
TANGENT			1447.83			
RADIUS			2750.00			
ARC LENGTH			2665.35			
CHORD LENGTH			2562.24			

"G" ALIGNMENT TABLE (WEST LEMON VALLEY ACCESS)

ITEM	L1			C1	L2	
CONTROL POINT	BOP	PC	RADIUS	PI	PT	EOP
STATION	10+00.00	10+76.78	N/A	12+90.35	14+87.15	17+01.61
NORTHING	501014.7232	500938.7665	500851.2340	500727.4767	500544.0216	500359.8014
EASTING	509804.4096	509815.6106	509222.0299	509846.7685	509737.4138	509627.6029
DIRECTION	S 08°23'19" E				S 30°47'55" W	
DISTANCE	76.78				214.47	
DEFLECTION ANGLE				39°11'14"		
DELTA ANGLE			39°11'14"			
DEGREE OF CURVE - ARC			09°32'57"			
CHORD DIRECTION			S11°12'18"W			
TANGENT			213.57			
RADIUS			600.00			
ARC LENGTH			410.37			
CHORD LENGTH			402.42			

"I" ALIGNMENT TABLE (SOUTHBOUND RAMPS)

ITEM	L1			C2	L3	L4			C5	L6	
CONTROL POINT	BOP	PC	RADIUS	PI	PT	PI	PC	RADIUS	PI	PT	EOP
STATION	97+80.00	103+43.80	N/A	107+84.78	112+13.12	114+60.23	117+91.03	N/A	121+04.77	124+12.90	127+12.66
NORTHING	499189.3108	499648.4063	498429.4343	500007.4884	500233.2779	500359.8014	500521.6821	498864.7264	500675.2144	500732.6346	500787.4955
EASTING	510801.8848	510474.6194	508764.6173	510218.6484	509839.8606	509627.6029	509339.1175	508409.3338	509065.5094	508757.0673	508462.3733
DIRECTION	N 35°28'59" W				N 59°12'05" W	N 60°42'05" W				N 79°27'16" W	
DISTANCE	563.80				247.11	330.80				299.76	
DEFLECTION ANGLE				23°43'06"		01°30'00"			18°45'11"		
DELTA ANGLE			23°43'06"					18°45'11"			
DEGREE OF CURVE - ARC			02°43'42"					03°00'56"			
CHORD DIRECTION			N47°20'32"W					N70°04'41"W			
TANGENT			440.98					313.74			
RADIUS			2100.00					1900.00			
ARC LENGTH			869.32					621.87			
CHORD LENGTH			863.13					619.10			

"O" ALIGNMENT TABLE (NORTHBOUND RAMPS)

ITEM	L1			C2	L3			C4	L5			C6	L7			C8	L9	
CONTROL POINT	BOP	PC	RADIUS	PI	PT	PC	RADIUS	PI	PT	PC	RADIUS	PI	PI	PC	RADIUS	PI	PT	EOP
STATION	100+00.00	101+96.38	N/A	106+40.47	110+67.17	112+57.91	N/A	113+76.11	114+92.99	119+16.51	N/A	120+44.22	121+71.75	121+71.75	N/A	123+77.72	125+82.23	130+72.49
NORTHING	499709.1052	499876.5737	498936.5289	500255.2950	500482.6806	500580.3407	499801.2521	500640.8626	500673.3412	500789.7141	498087.8725	500824.8047	500848.6123	500848.6123	498883.6730	500887.0083	500883.3590	500874.6724
EASTING	510536.9642	510434.4073	508899.3777	510202.4802	509821.0148	509657.1788	509192.7761	509555.6464	509441.9941	509034.7702	508262.6613	508911.9776	508786.5083	508786.5083	508413.6635	508584.1566	508378.2267	507888.0457
DIRECTION	N 31°28'59" W				N 59°12'05" W				N 74°03'06" W				N 79°15'21" W				S 88°59'05" W	
DISTANCE	196.38				190.73				423.53				0.00				490.26	
DEFLECTION ANGLE				27°43'06"				14°51'00"				05°12'16"	N/A			11°45'34"		
DELTA ANGLE			27°43'06"				14°51'00"				05°12'16"				11°45'34"			
DEGREE OF CURVE - ARC			03°10'59"				06°19'01"				02°02'20"				02°51'53"			
CHORD DIRECTION			N45°20'32"W				N66°37'36"W				N76°39'14"W				N85°08'08"W			
TANGENT			444.09				118.20				127.71				205.96			
RADIUS			1800.00				907.00				2810.00				2000.00			
ARC LENGTH			870.80				235.08				255.24				410.48			
CHORD LENGTH			862.33				234.42				255.15				409.76			

"S" ALIGNMENT TABLE (SUNNY DRIVE)

ITEM	L1			C1	L2			C2	L3	
CONTROL POINT	BOP	PC	RADIUS	PI	PI	PC	RADIUS	PI	PI	EOP
STATION	10+00.00	12+24.66	N/A	13+83.96	14+51.03	14+51.03	N/A	16+74.63	18+91.00	18+91.00
NORTHING	500951.6158	500731.4286	500756.2381	500575.2914	500643.1429	500643.1429	499738.3810	500738.3810	500738.3810	500738.3810
EASTING	508801.7847	508757.1956	508634.6824	508725.5771	508581.4427	508581.4427	508155.5249	508379.1318	508155.5249	508155.5249
DIRECTION	S 11°26'52" W				N 64°47'28" W				N/A	
DISTANCE	224.66				0.00				0.00	
DEFLECTION ANGLE				103°45'39"	N/A			25°12'32"	N/A	
DELTA ANGLE			103°45'39"				25°12'32"			
DEGREE OF CURVE - ARC			45°50'12"				05°43'46"			
CHORD DIRECTION			S63°19'42"W				N77°23'44"W			
TANGENT			159.31				223.61			
RADIUS			125.00				1000.00			
ARC LENGTH			226.37				439.98			
CHORD LENGTH			196.68				436.44			

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Alignment Tables

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
64-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

ALIGNMENT TABLES

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
A3	269

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NOTES:

1) WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED AND REESTABLISHED, BY AN ALASKA LICENSED LAND SURVEYOR, 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.

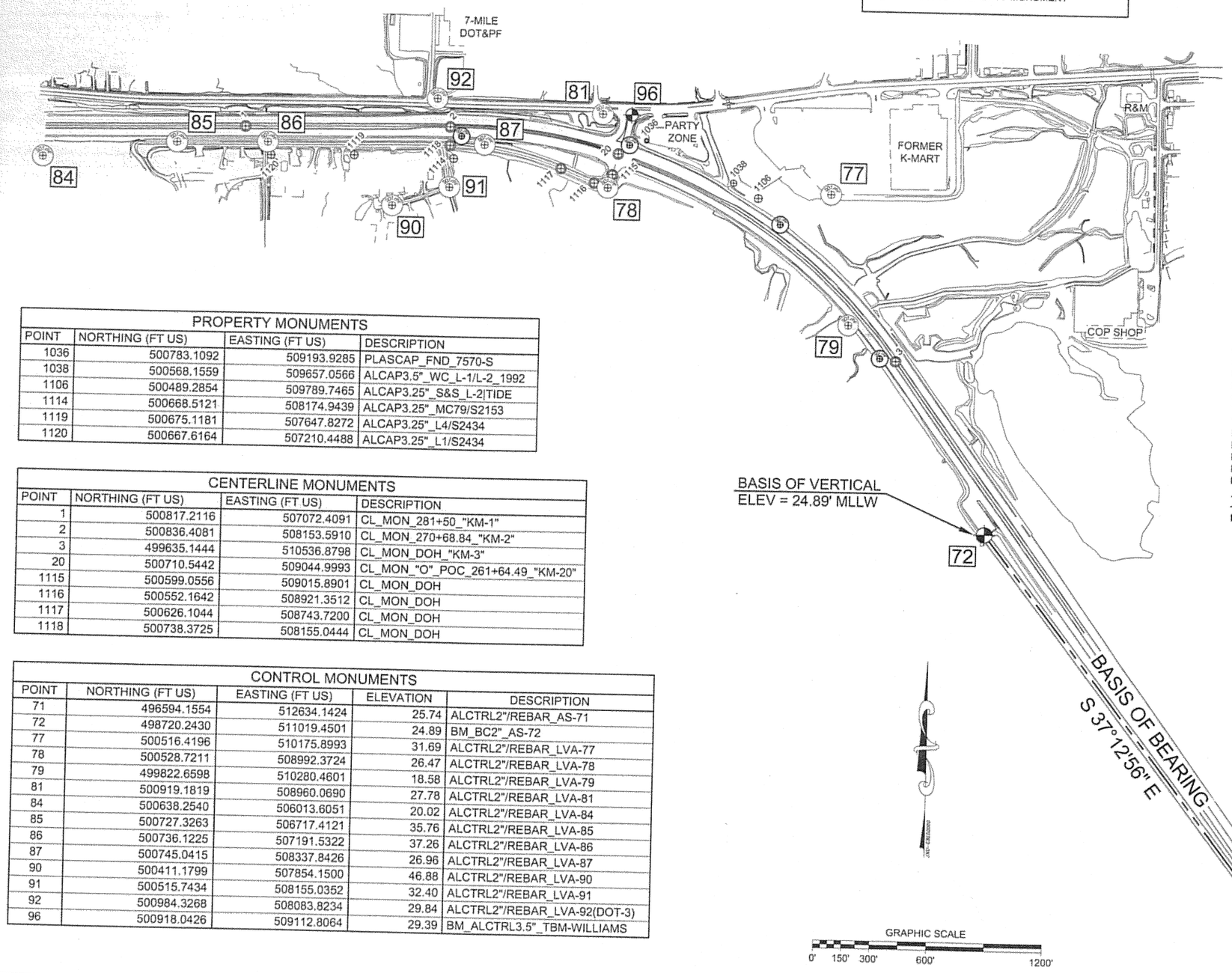
2) COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE USED TO RESET MONUMENTS ONLY AS A LAST RESORT.

3) IF ANY PAIR OF CONTROL POINTS DISAGREE 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.

4) TOPOGRAPHIC SURVEY INFORMATION SHOWN FOR THIS PROJECT WAS PERFORMED BY THE STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION.

LEGEND

- PROPOSED PRIMARY CONTROL MONUMENT
- EXISTING PRIMARY CONTROL MONUMENT
- EXISTING BENCHMARK
- EXISTING DOT&PF CENTERLINE MONUMENT
- EXISTING PROPERTY MONUMENT



PROPERTY MONUMENTS			
POINT	NORTHING (FT US)	EASTING (FT US)	DESCRIPTION
1036	500783.1092	509193.9285	PLASCAP_FND_7570-S
1038	500568.1559	509657.0566	ALCAP3.5"_WC_L-1/L-2_1992
1106	500489.2854	509789.7465	ALCAP3.25"_S&S_L-2|TIDE
1114	500668.5121	508174.9439	ALCAP3.25"_MC79/S2153
1119	500675.1181	507647.8272	ALCAP3.25"_L4/S2434
1120	500667.6164	507210.4488	ALCAP3.25"_L1/S2434

CENTERLINE MONUMENTS			
POINT	NORTHING (FT US)	EASTING (FT US)	DESCRIPTION
1	500817.2116	507072.4091	CL_MON_281+50_"KM-1"
2	500836.4081	508153.5910	CL_MON_270+68.84_"KM-2"
3	499635.1444	510536.8798	CL_MON_DOH_"KM-3"
20	500710.5442	509044.9993	CL_MON_"O"_POC_261+64.49_"KM-20"
1115	500599.0556	509015.8901	CL_MON_DOH
1116	500552.1642	508921.3512	CL_MON_DOH
1117	500626.1044	508743.7200	CL_MON_DOH
1118	500738.3725	508155.0444	CL_MON_DOH

CONTROL MONUMENTS				
POINT	NORTHING (FT US)	EASTING (FT US)	ELEVATION	DESCRIPTION
71	496594.1554	512634.1424	25.74	ALCTRL2"/REBAR_AS-71
72	498720.2430	511019.4501	24.89	BM_BC2"_AS-72
77	500516.4196	510175.8993	31.69	ALCTRL2"/REBAR_LVA-77
78	500528.7211	508992.3724	26.47	ALCTRL2"/REBAR_LVA-78
79	499822.6598	510280.4601	18.58	ALCTRL2"/REBAR_LVA-79
81	500919.1819	508960.0690	27.78	ALCTRL2"/REBAR_LVA-81
84	500638.2540	506013.6051	20.02	ALCTRL2"/REBAR_LVA-84
85	500727.3263	506717.4121	35.76	ALCTRL2"/REBAR_LVA-85
86	500736.1225	507191.5322	37.26	ALCTRL2"/REBAR_LVA-86
87	500745.0415	508337.8426	26.96	ALCTRL2"/REBAR_LVA-87
90	500411.1799	507854.1500	46.88	ALCTRL2"/REBAR_LVA-90
91	500515.7434	508155.0352	32.40	ALCTRL2"/REBAR_LVA-91
92	500984.3268	508083.8234	29.84	ALCTRL2"/REBAR_LVA-92(DOT-3)
96	500918.0426	509112.8064	29.39	BM_ALCTRL3.5"_TBM-WILLIAMS

BASIS OF CONTROL

HORIZONTAL CONTROL

THE BASIS OF 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(92) 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 (726482.8570M)
AKSPC EASTING = 2512570.06318 FT US (765832.8870M)
LOCAL NORTHING = 500000.0000 FT US (152400.3048M)
LOCAL EASTING = 500000.0000 FT US (152400.3048M)

COORDINATES FOR THIS PROJECT WERE ESTABLISHED WITH SKI PRO STATIC GPS PROCESSING AND STARNET LEAST SQUARES ADJUSTMENT.

PROJECT SPECIFIC BASIS OF HORIZONTAL CONTROL

LVA-72 : 2" BRASS CAP LOCATED IN CONCRETE PAD AT WETLANDS VIEWING AREA.
JNU-GRID N 498720.2430 FT US, E 511019.4501 FT US
AKSPC N 2382043.9330 FT US , E 2523570.8469 FT US

LVA-71 : 2" ALCAP/REBAR LOCATED NEAR THE FIRST LUMIN NORTH OF VANDERBUILT/EGAN INTERSECTION.
JNU-GRID N 496594.1554 FT US, E 512634.1424 FT US
AKSPC N 2379896.8349 FT US, E 2525157.1747 FT US

VERTICAL CONTROL

THE BASIS OF VERTICAL DATUM FOR JNU GRID-2000 IS MLLW GASTINEAU CHANNEL TIDAL DATUM BASED ON THIRD ORDER LEVELS AND SUPPLEMENTED WITH GEOID '99 MODELED HEIGHTS. LEVELS WERE RUN FROM THE NOS BENCHMARK 2210C LOCATED DOWNTOWN, HAVING A PUBLISHED ELEVATION OF 29.40 FEET ABOVE MLLW TO USC&GS FIRST ORDER HORIZONTAL CONTROL STATION EDDIE AND ON TO AUKE BAY. 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. **EDDIE** HAS AN OBSERVED ELEVATION OF 26.52FT ABOVE MLLW. ELLIPSOID ELEVATION OF EDDIE MODIFIED TO 40.64FT TO ADJUST GEOID'99 TO OUR LOCAL TIDAL DATUM OF MLLW. GEOID'99 MODELED HEIGHTS HAVE PROVEN BETTER THAT 0.1' ABSOLUTE ACCURACY COMPARED WITH LEVELED VALUES IN THE JUNEAU AREA.

THE PROJECT SPECIFIC BASIS OF VERTICAL CONTROL

LVA-72: HAVING A LEVELED OBSERVATION OF 24.89' ABOVE MLLW.

PROPOSED PRIMARY MONUMENTS	
STATION	OFFSET
"E" 108+62.08	61.00' LT.
"E" 117+50.53	49.00' RT.
"E" 126+38.98	49.00' RT.
"E" 135+27.43	49.00' LT.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Survey Control Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY:

STATE OF ALASKA
49TH
Timothy Reed
No. 10613
REGISTERED PROFESSIONAL LAND SURVEYOR
9-06-06

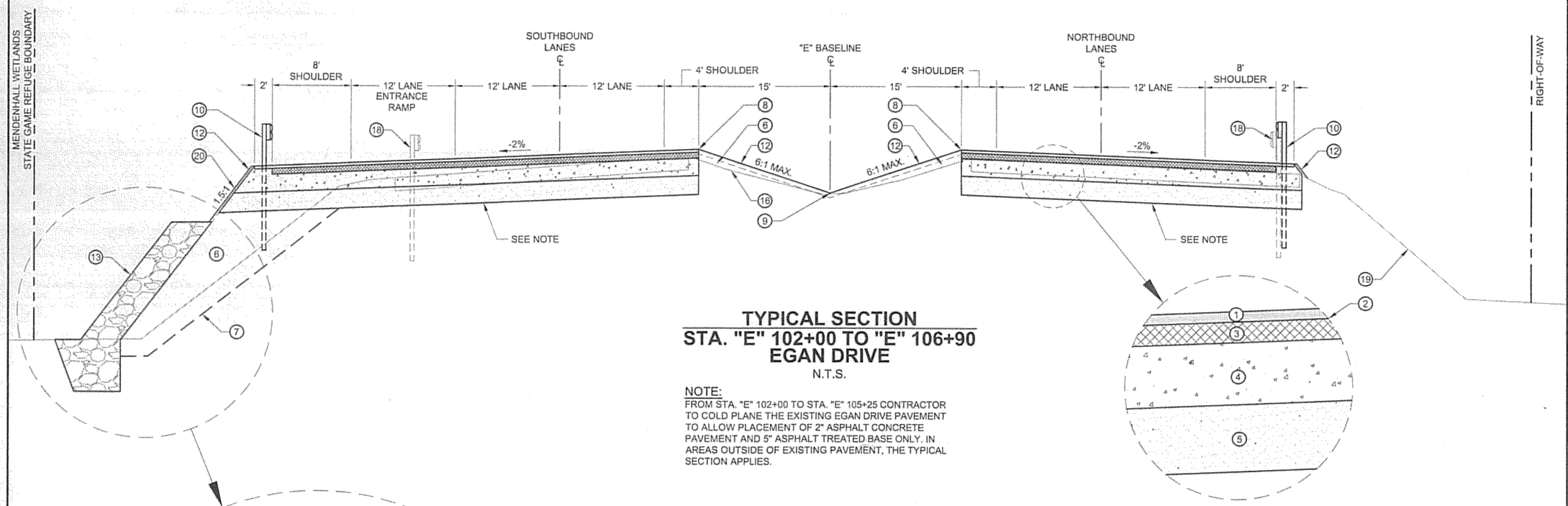
CHECKED BY: T. REED
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

SURVEY CONTROL PLAN
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
A4	269

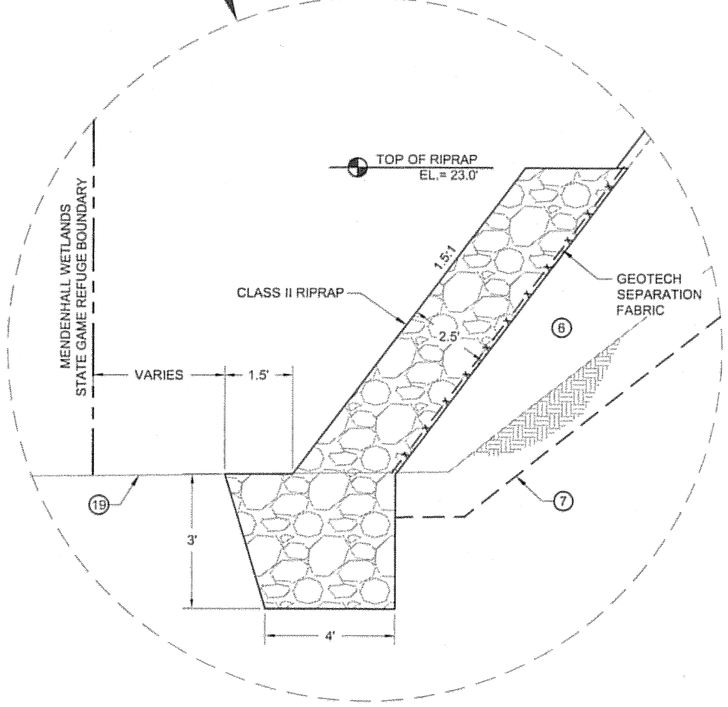
A:\2005\051563\Design Drawings\1A-Survey Control Plan.dwg PLOT: August 04, 2006 at: 1:54pm



TYPICAL SECTION
STA. "E" 102+00 TO "E" 106+90
EGAN DRIVE
N.T.S.

NOTE:
FROM STA. "E" 102+00 TO STA. "E" 105+25 CONTRACTOR TO COLD PLANE THE EXISTING EGAN DRIVE PAVEMENT TO ALLOW PLACEMENT OF 2" ASPHALT CONCRETE PAVEMENT AND 5" ASPHALT TREATED BASE ONLY. IN AREAS OUTSIDE OF EXISTING PAVEMENT, THE TYPICAL SECTION APPLIES.

TYPICAL STRUCTURAL DETAIL
N.T.S.



RIPRAP CLASS II DETAIL
N.T.S.

GENERAL NOTES:

1. VERTICAL AND HORIZONTAL ALIGNMENTS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR FIELD REVISIONS, AS APPROVED BY THE ENGINEER.
2. THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND NEED TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING WORK.
3. ALL UNUSABLE EXCAVATION SHALL BE PLACED OUTSIDE THE PROJECT LIMITS AT A LOCATION PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
4. SEE ILLUMINATION PLANS AND DETAILS FOR INFORMATION REGARDING LIGHT STANDARDS, BASES, J-BOXES AND CONDUIT LOCATIONS

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
2. STE-1 ASPHALT FOR TACK COAT
3. 5" ASPHALT TREATED BASE
4. 12" SUB-BASE, GRADING "B"
5. 13" BORROW, TYPE "A"
6. BORROW, TYPE "B", DEPTH VARIES
7. 12" MINIMUM UNCLASSIFIED EXCAVATION
8. FINISH GRADE PROFILE
9. MEDIAN FLOW LINE PROFILE
10. W-BEAM GUARDRAIL (8' POST LENGTH)
12. 4" TOPSOIL AND HYDROSEED
13. 2.5' THICK CLASS II RIPRAP SLOPE PROTECTION
15. EXISTING PAVEMENT TO REMAIN
16. REMOVE AND SALVAGE MEDIAN TOPSOIL
18. REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
19. EXISTING GROUND
20. EROSION CONTROL MATTING

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

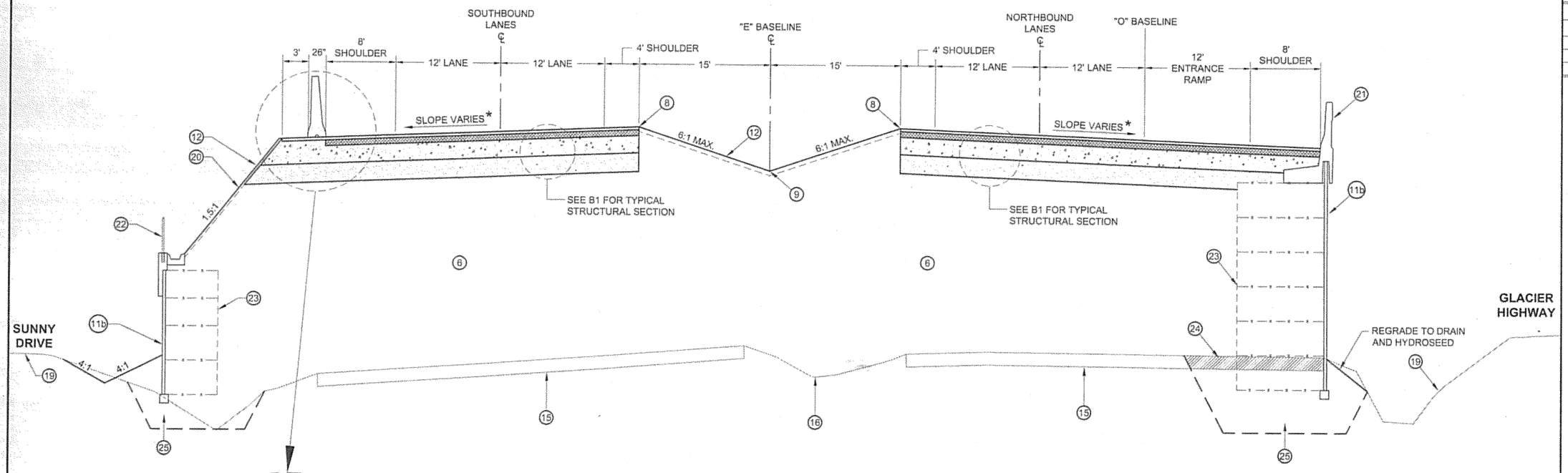
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DRAWN BY: STAFF

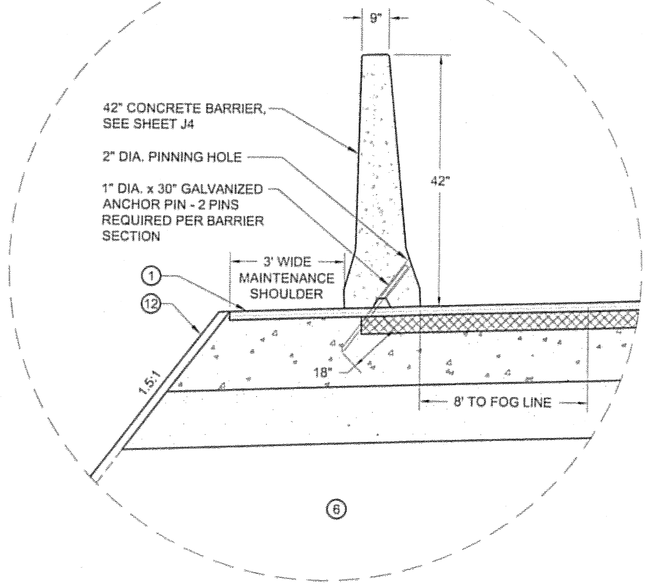
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B1	269

I:\2005\051363\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:07pm





CONCRETE BARRIER DETAIL
N.T.S.

TYPICAL SECTION
STA. "E" 136+35 TO "E" 137+00
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT
6. BORROW, TYPE "B", DEPTH VARIES
7. 12" MINIMUM UNCLASSIFIED EXCAVATION
8. FINISH GRADE PROFILE
9. MEDIAN FLOW LINE PROFILE
10. W-BEAM GUARDRAIL (8' POST LENGTH)
11b. MSE RETAINING WALL W/ PATTERN FINISH, SEE SHEET J6
12. 4" TOPSOIL AND HYDROSEED
15. EXISTING PAVEMENT TO REMAIN
16. REMOVE AND SALVAGE MEDIAN TOPSOIL
19. EXISTING GROUND
20. EROSION CONTROL MATTING
21. CONCRETE VEHICLE BARRIER, SEE SHEET J10
22. SAFETY RAILING, SEE SHEET J16
23. MSE WALL REINFORCEMENT AND BACKFILL
24. REMOVAL OF EXISTING PAVEMENT
25. MSE WALL FOUNDATION FILL

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
PROFESSIONAL ENGINEER
8-4-06

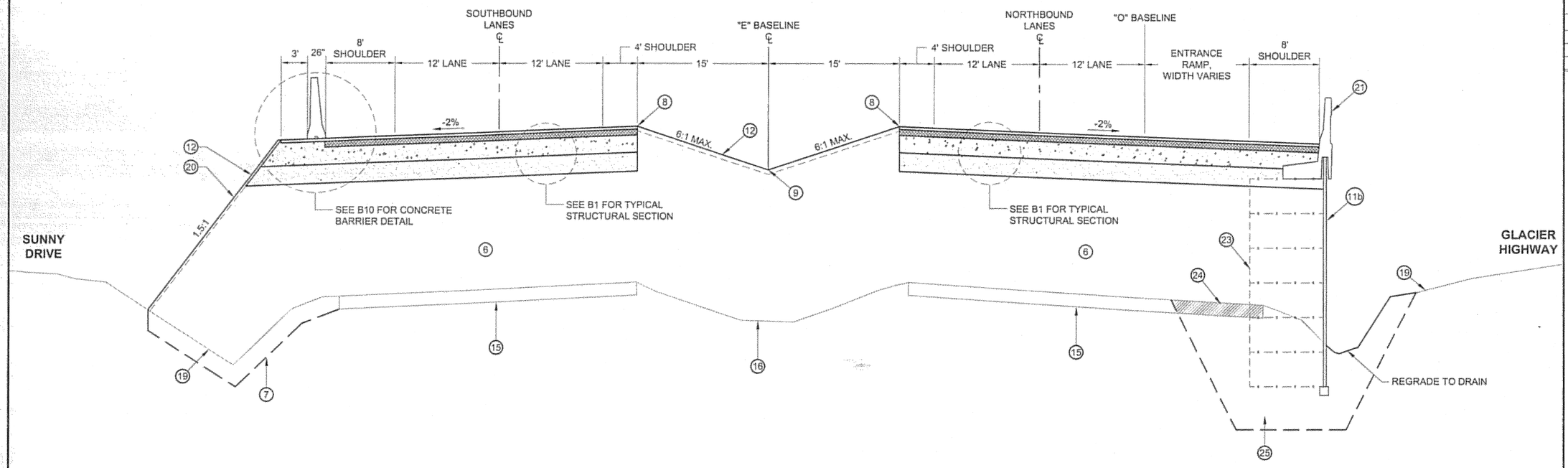
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B10	**269**

J:\2005\051363\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:07pm



TYPICAL SECTION
STA. "E" 137+00 TO "E" 141+53
EGAN DRIVE
N.T.S.

LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (11b) MSE RETAINING WALL W/ PATTERN FINISH, SEE SHEET J6
- (12) 4" TOPSOIL AND HYDROSEED
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING
- (21) CONCRETE VEHICLE BARRIER, SEE SHEET J10
- (23) MSE WALL REINFORCEMENT AND BACKFILL
- (24) REMOVAL OF EXISTING PAVEMENT
- (25) MSE WALL FOUNDATION FILL

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph W. Pusich CE 8152 PROFESSIONAL ENGINEER
8-4-06

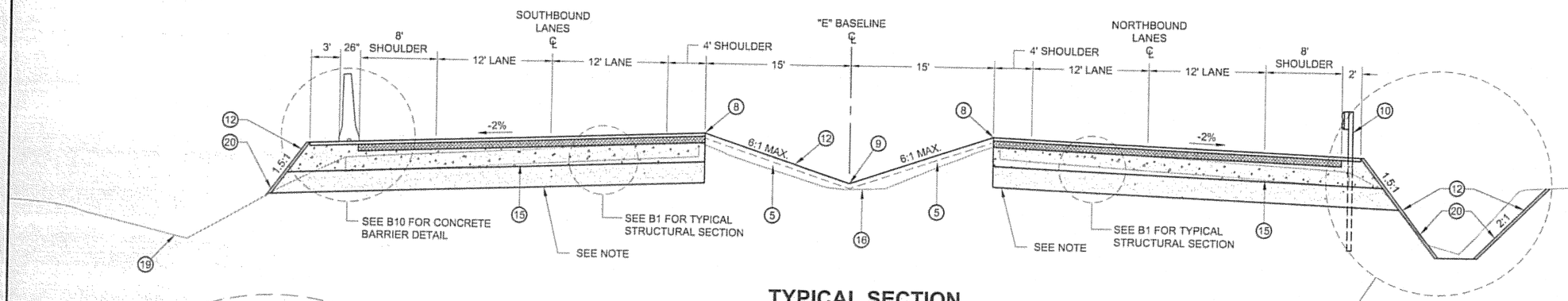
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Typical Sections

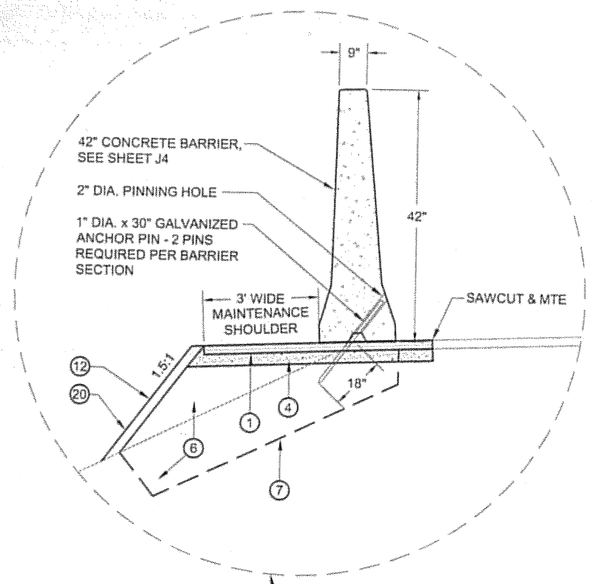
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STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B11	**269**

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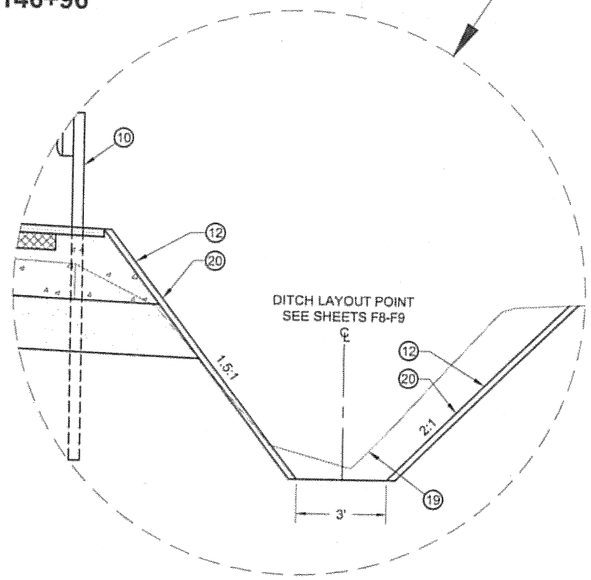


TYPICAL SECTION
STA. "E" 141+53 TO "E" 146+96
EGAN DRIVE
N.T.S.

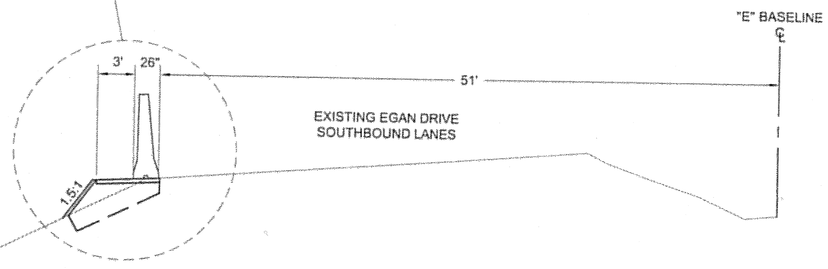
NOTE:
FROM STA. "E" 144+00 TO STA. "E" 146+96 CONTRACTOR TO COLD PLANE THE EXISTING EGAN DRIVE PAVEMENT TO ALLOW PLACEMENT OF 2" ASPHALT CONCRETE PAVEMENT AND 5" ASPHALT TREATED BASE ONLY. IN AREAS OUTSIDE OF EXISTING PAVEMENT THE TYPICAL SECTION APPLIES.



CONCRETE BARRIER DETAIL
N.T.S.



TYPICAL DITCH SECTION
STA. "E" 138+31 TO "E" 143+00
EGAN DRIVE
N.T.S.



TYPICAL SECTION
STA. "E" 146+96 TO "E" 153+33
EGAN DRIVE
N.T.S.

LEGEND

(1)	2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
(4)	6" SUB-BASE, GRADING "B"
(6)	BORROW, TYPE "B", DEPTH VARIES
(7)	12" MINIMUM UNCLASSIFIED EXCAVATION
(8)	FINISH GRADE PROFILE
(9)	MEDIAN FLOW LINE PROFILE
(10)	W-BEAM GUARDRAIL (8' POST LENGTH)
(12)	4" TOPSOIL AND HYDROSEED
(15)	EXISTING PAVEMENT TO REMAIN
(16)	REMOVE AND SALVAGE MEDIAN TOPSOIL
(19)	EXISTING GROUND
(20)	EROSION CONTROL MATTING

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

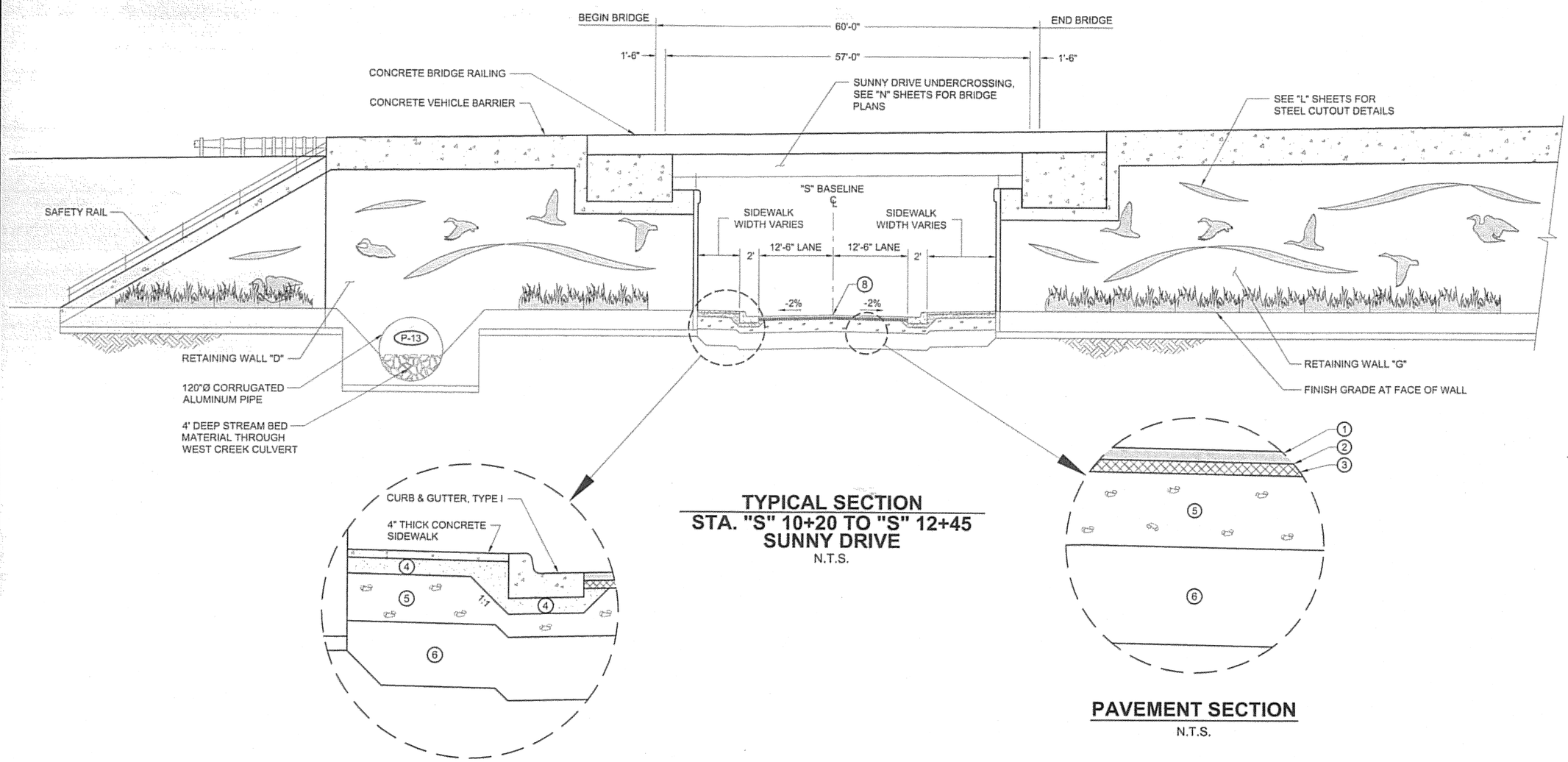
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B12	269

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TYPICAL SECTION
STA. "S" 10+20 TO "S" 12+45
SUNNY DRIVE
N.T.S.

TYPIC AL CURB AND SIDEWALK SECTION
N.T.S.

PAVEMENT SECTION
N.T.S.

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
2. STE-1 ASPHALT FOR TACK COAT
3. 2" ASPHALT TREATED BASE
4. 4" AGGREGATE BASE COURSE, GRADING D-1
5. 12" SUB-BASE, GRADING "B"
6. BORROW, TYPE "B", 16" MINIMUM, DEPTH VARIES
7. 12" MINIMUM UNCLASSIFIED EXCAVATION
8. FINISH GRADE PROFILE

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 8-4-06

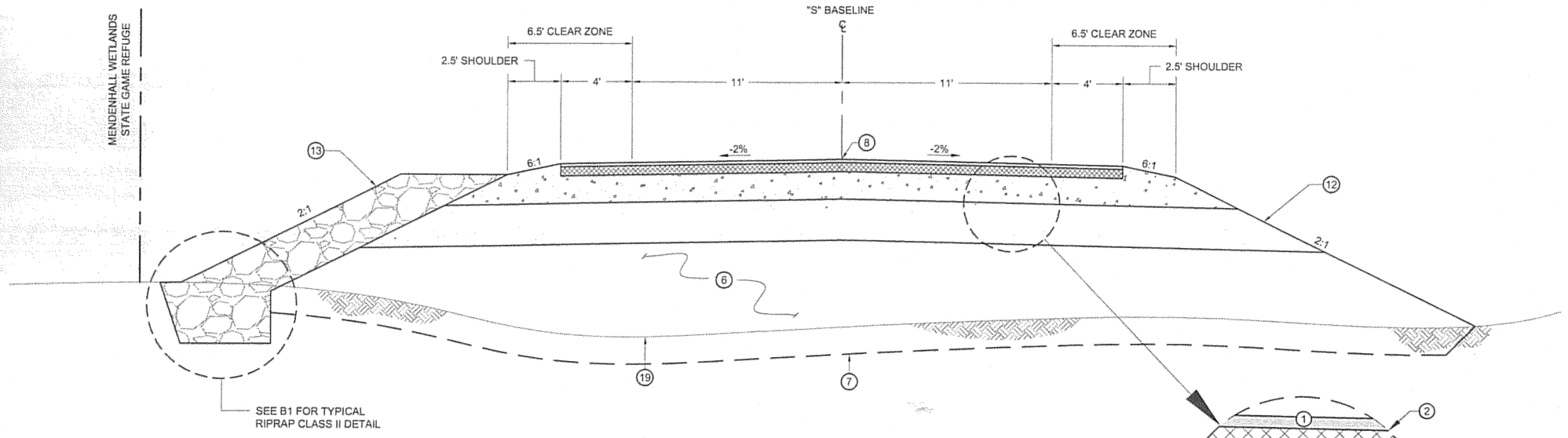
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

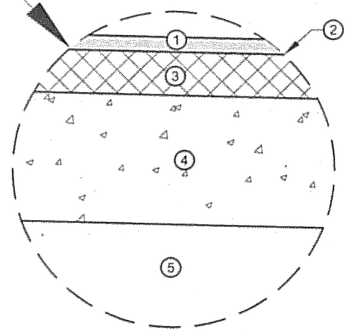
Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B13	**269**

P:\2005\051565\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 5:07pm



TYPICAL SECTION
STA. "S" 12+45 TO "S" 18+91
SUNNY DRIVE
N.T.S.



PAVEMENT SECTION
N.T.S.

LEGEND

(1)	2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
(2)	STE-1 ASPHALT FOR TACK COAT
(3)	2" ASPHALT TREATED BASE
(4)	12" SUB-BASE, GRADING "B"
(5)	16" BORROW, TYPE "A"
(6)	BORROW, TYPE "B", DEPTH VARIES
(7)	12" MINIMUM UNCLASSIFIED EXCAVATION
(8)	FINISH GRADE PROFILE
(12)	4" TOPSOIL AND HYDROSEED
(13)	2.5' THICK CLASS II RIPRAP SLOPE PROTECTION
(19)	EXISTING GROUND

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
19TH
Joseph M. Pusich
CE 8152
8406

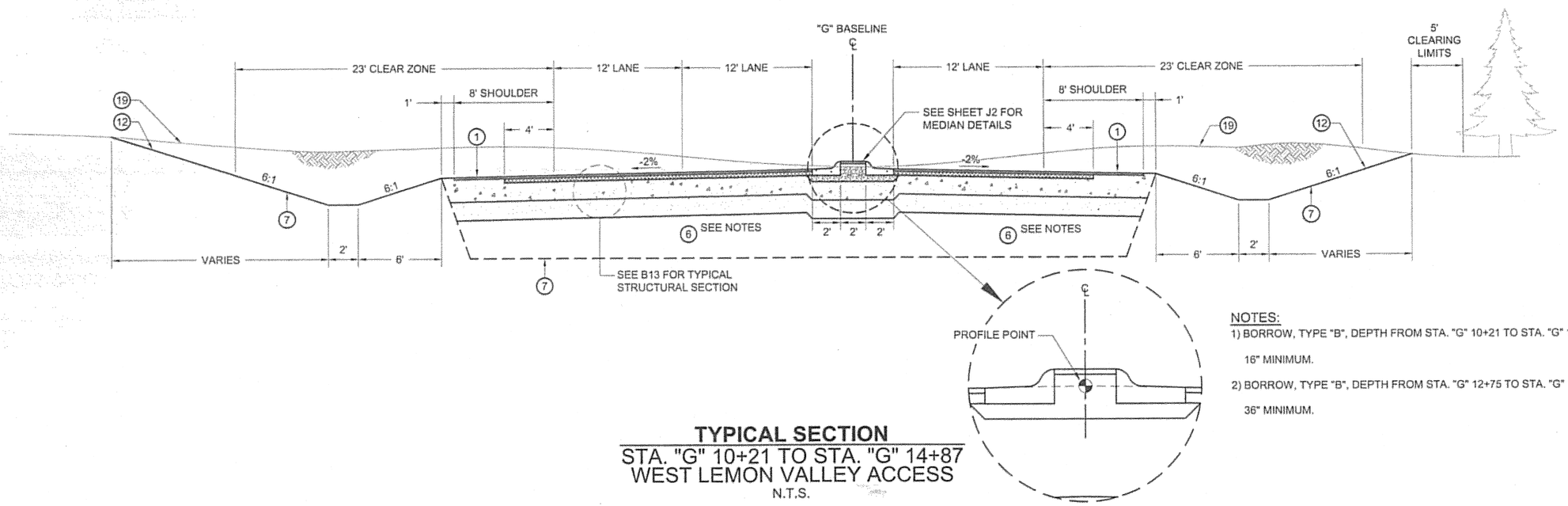
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B14	269

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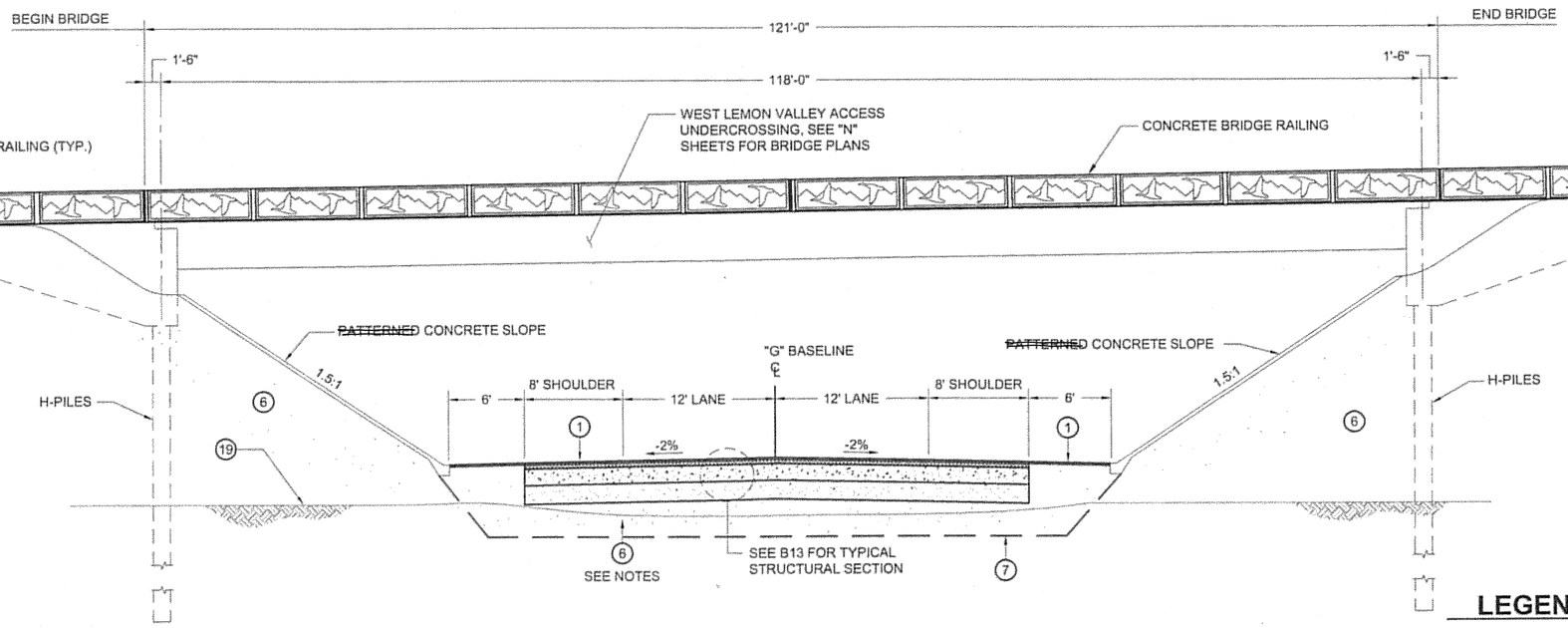


NOTES:

1) BORROW, TYPE "B", DEPTH FROM STA. "G" 10+21 TO STA. "G" 12+75 TO BE 16" MINIMUM.

2) BORROW, TYPE "B", DEPTH FROM STA. "G" 12+75 TO STA. "G" 14+87 TO BE 36" MINIMUM.

TYPICAL SECTION
STA. "G" 10+21 TO STA. "G" 14+87
WEST LEMON VALLEY ACCESS
N.T.S.



TYPICAL SECTION
STA. "G" 14+87 TO STA. "G" 17+01
WEST LEMON VALLEY ACCESS
N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date _____

LEGEND

(1)	2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
(6)	BORROW TYPE "B", DEPTH VARIES
(7)	12" MINIMUM UNCLASSIFIED EXCAVATION
(12)	4" TOPSOIL AND HYDROSEED
(19)	EXISTING GROUND

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8132
REGISTERED PROFESSIONAL ENGINEER
8-4-06

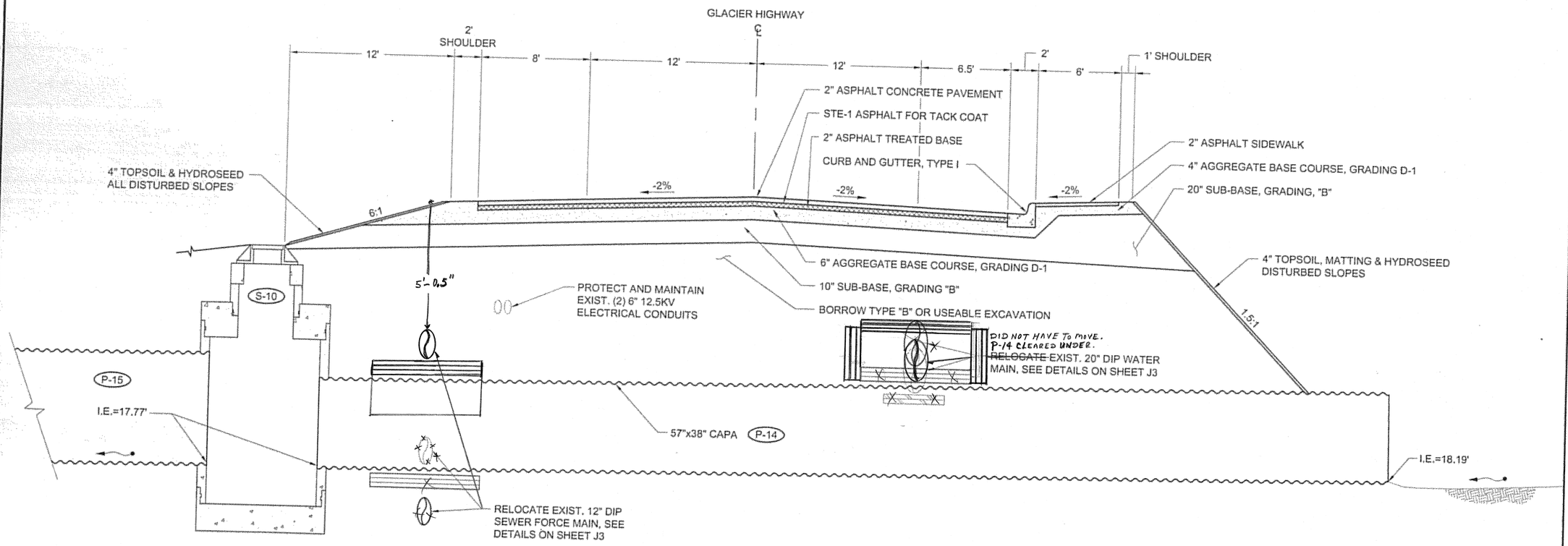
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B15	**269**

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GLACIER HIGHWAY TYPICAL SECTION @ UNNAMED CREEK

N.T.S.

NOTES:

1. EXISTING CRUSHED AGGREGATE BASE COURSE AND SUB-BASE MAY BE SALVAGED AND REUSED AT THIS LOCATION PROVIDED IT MEETS THE GRADATION SPECIFICATION CRITERIA FOR EACH MATERIAL TYPE.
2. ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. DETOURS AROUND THE WORK ZONE SHALL BE IN ACCORDANCE WITH CURRENT MUTCD AND DOT&PF STANDARDS.
3. EXISTING GROUND NOT SHOWN FOR CLARITY.
4. CONTRACTOR TO FIELD LOCATE EXISTING UTILITIES AND OBTAIN ELEVATION READINGS ON TOP OF EXISTING 12" DIP SANITARY SEWER FORCE MAIN PIPE AND 20" DIP WATER MAIN PRIOR TO INSTALLING P-14 TO DETERMINE FINAL RELOCATION CONFIGURATION.
5. CONTRACTOR TO COORDINATE WITH THE CBJ PUBLIC WORKS DEPARTMENT A MINIMUM OF 72 HOURS PRIOR TO BEGINNING UNDERGROUND UTILITY RELOCATION WORK.
6. REMOVAL OF EXISTING CURB & GUTTER, SIDEWALK, ASPHALT PAVEMENT, AND CULVERT PIPE TO BE PERFORMED BY THE CONTRACTOR. THESE EXISTING ITEMS ARE NOT SHOWN FOR CLARITY.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/11/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER — 8-4-06

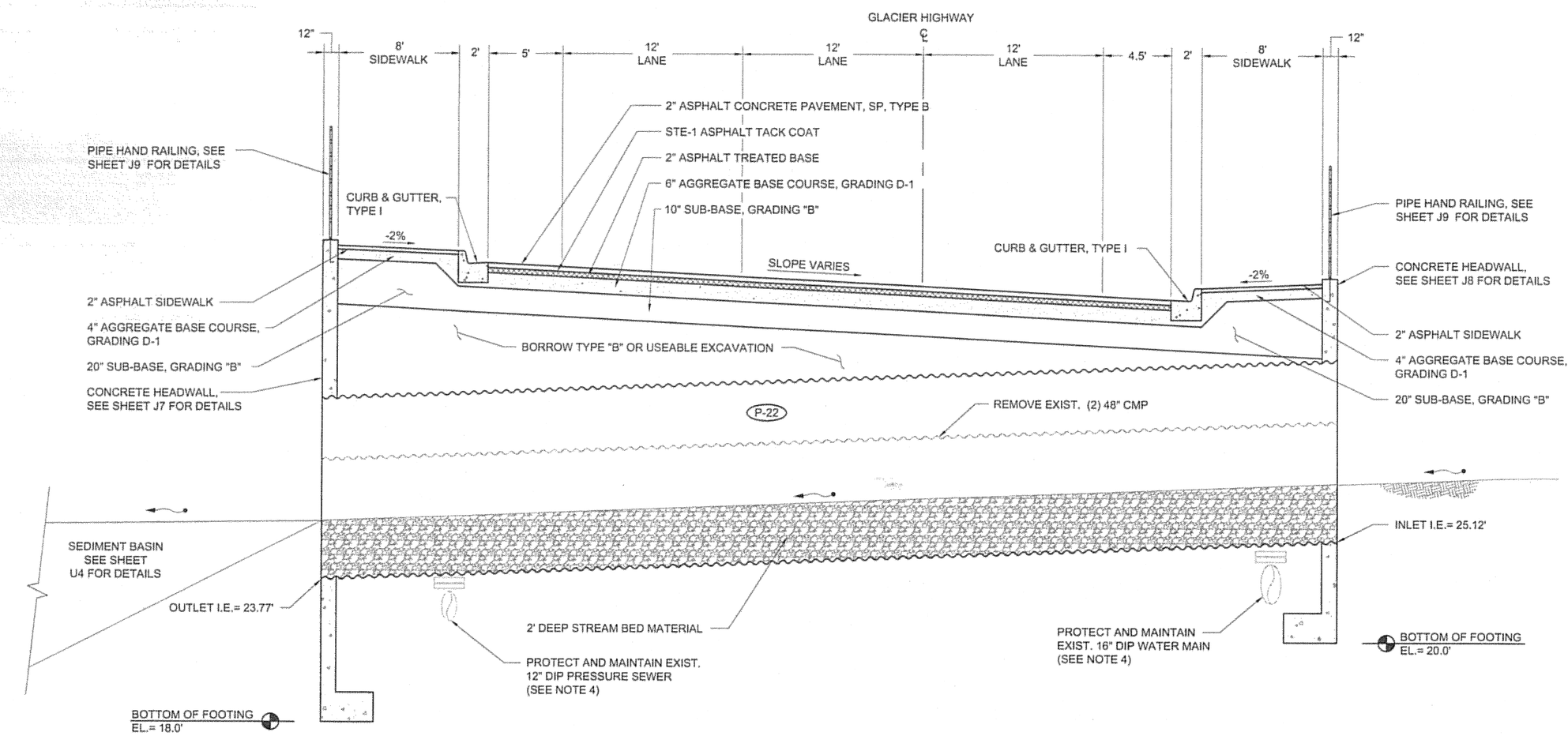
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B16	**269**

I:\2005\051463\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:07pm



GLACIER HIGHWAY TYPICAL SECTION @ EAST CREEK

N.T.S.

NOTES:

1. EXISTING CRUSHED AGGREGATE BASE COURSE, AND SUB-BASE MAY BE SALVAGED AND REUSED AT THIS LOCATION PROVIDING IT MEETS THE GRADATION SPECIFICATION CRITERIA FOR EACH MATERIAL TYPE.
2. ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. DETOURS AROUND THE WORK ZONE SHALL BE IN ACCORDANCE WITH CURRENT MUTCD AND DOT&PF STANDARDS.
3. EXISTING GROUND NOT SHOWN FOR CLARITY.
4. CONTRACTOR TO FIELD LOCATE EXISTING UTILITIES AND OBTAIN ELEVATION READINGS ON TOP OF EXISTING 12" DIP SANITARY SEWER FORCE MAIN PIPE AND 16" DIP WATER MAIN PRIOR TO INSTALLING P-22 TO DETERMINE WHETHER PIPES NEED TO BE RELOCATED.
5. IF UTILITY RELOCATE IS REQUIRED, CONTRACTOR TO COORDINATE WITH THE CBJ PUBLIC WORKS DEPARTMENT A MINIMUM OF 72 HOURS PRIOR TO BEGINNING UTILITY RELOCATION WORK.
6. REMOVAL OF EXISTING CURB & GUTTER, SIDEWALK, ASPHALT PAVEMENT, AND CULVERT PIPE TO BE PERFORMED BY THE CONTRACTOR. THESE EXISTING ITEMS ARE NOT SHOWN FOR CLARITY.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 19TH Joseph M. Pusich CE 8152

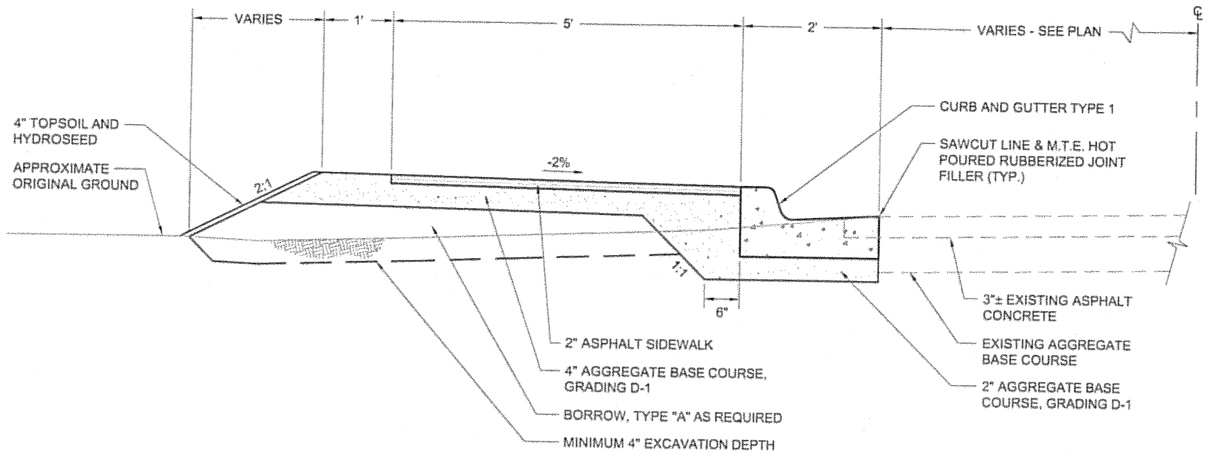
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B17	**269**

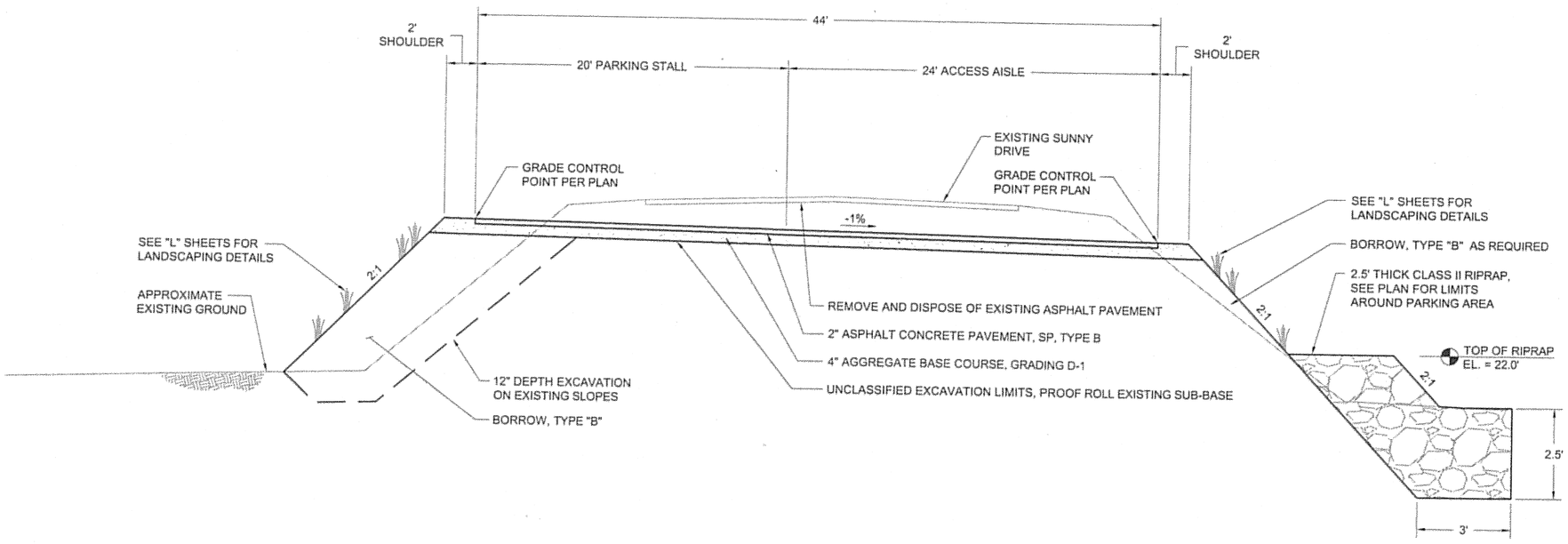
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① 5' SIDEWALK TYPICAL SECTION

N.T.S.

STA. "L" 311+15.95, 23.00' LT. to STA. "L" 312+34.41, 23.00' LT.
STA. "L" 312+91.02, 23.00' LT. to STA. "L" 316+70.28, 20.00' LT.



② REFUGE PARKING LOT TYPICAL SECTION

N.T.S.

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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER
B406

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

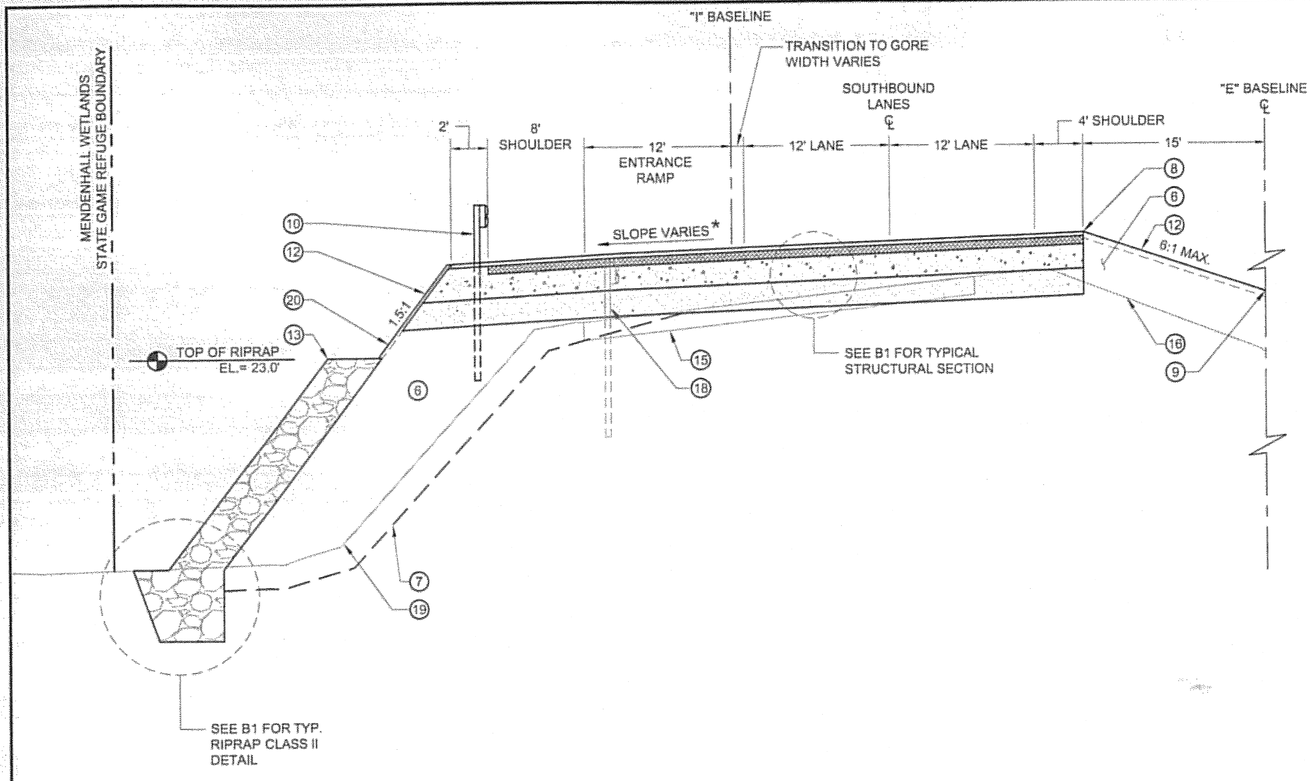
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

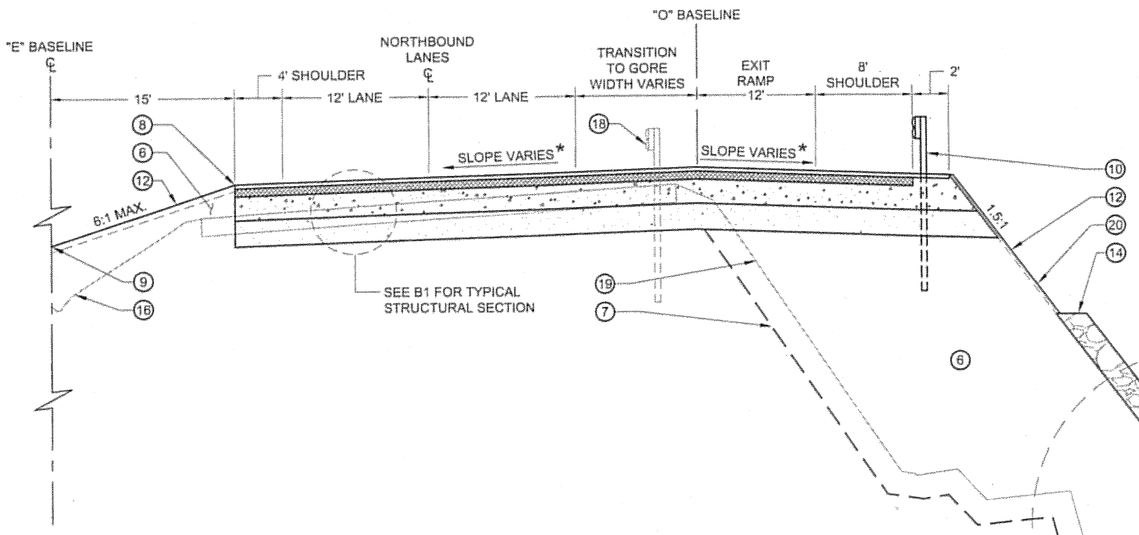
Typical Sections

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B18	269

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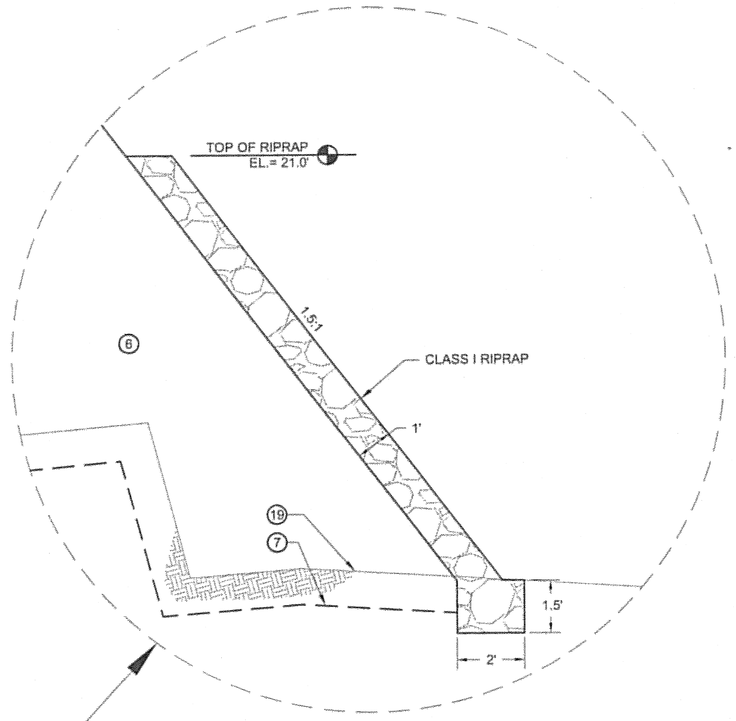


TYPICAL SECTION
STA. "E" 106+90 TO "E" 111+32
EGAN DRIVE
N.T.S.

★ SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

6. BORROW, TYPE "B", DEPTH VARIES
7. 12" MINIMUM UNCLASSIFIED EXCAVATION
8. FINISH GRADE PROFILE
9. MEDIAN FLOW LINE PROFILE
10. W-BEAM GUARDRAIL (8' POST LENGTH)
12. 4" TOPSOIL AND HYDROSEED
13. 2.5' THICK CLASS II RIPRAP SLOPE PROTECTION
14. 1' THICK CLASS I RIPRAP SLOPE PROTECTION
15. EXISTING PAVEMENT TO REMAIN
16. REMOVE AND SALVAGE MEDIAN TOPSOIL
18. REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
19. EXISTING GROUND
20. EROSION CONTROL MATTING



CLASS I RIPRAP DETAIL
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 8-4-06

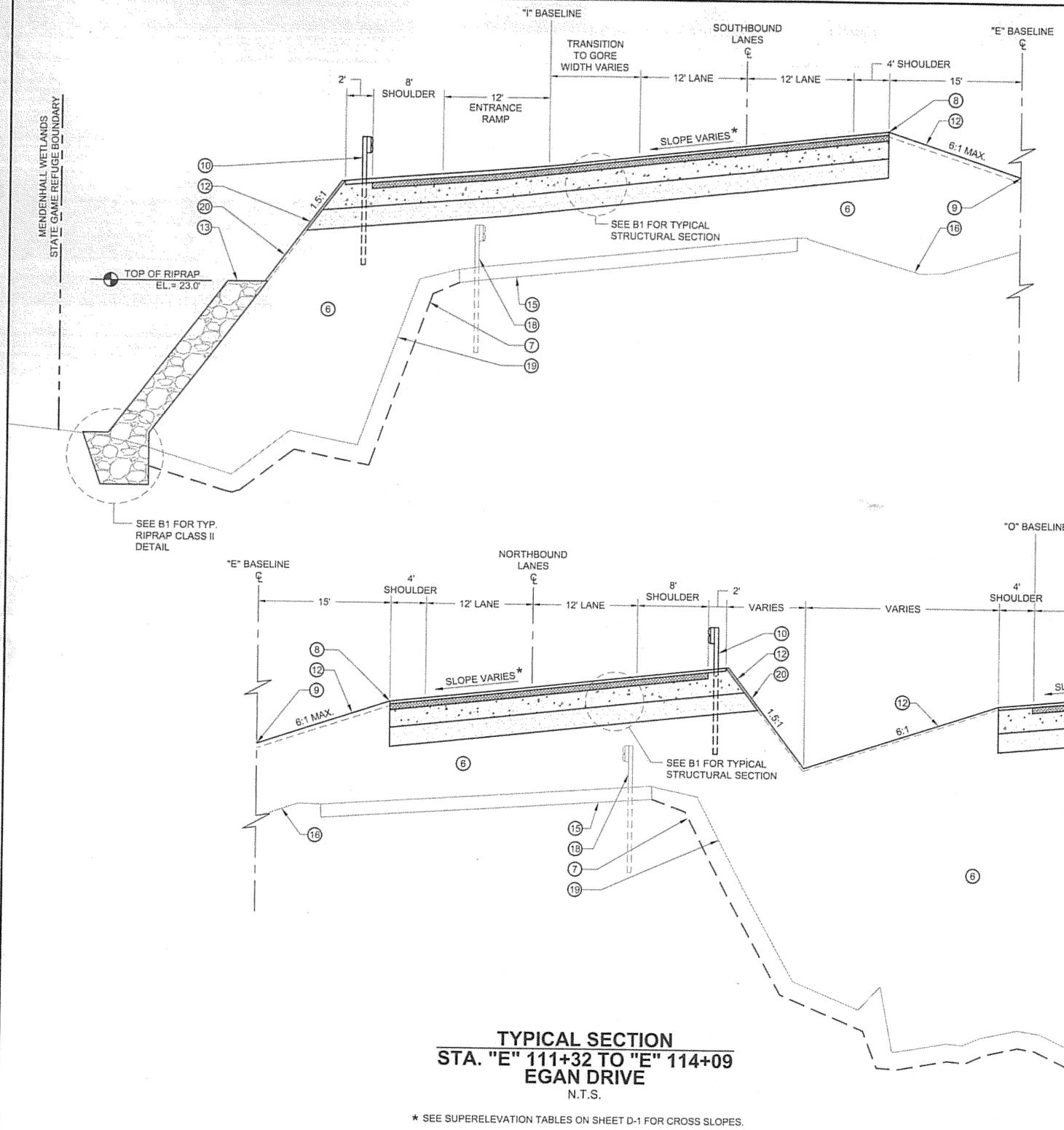
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B2	269

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TYPICAL SECTION
STA. "E" 111+32 TO "E" 114+09
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT, SP, TYPE B
2. STE-1 ASPHALT FOR TACK COAT
3a. 3" ASPHALT TREATED BASE
4. 12" SUB-BASE, GRADING "B"
5. 13" BORROW, TYPE "A"
6. BORROW, TYPE "B", DEPTH VARIES
7. 12" MINIMUM UNCLASSIFIED EXCAVATION
8. FINISH GRADE PROFILE
9. MEDIAN FLOW LINE PROFILE
10. W-BEAM GUARDRAIL (8' POST LENGTH)
12. 4" TOPSOIL AND HYDROSEED
13. 2.5' THICK CLASS II RIPRAP SLOPE PROTECTION
14. 1' THICK CLASS I RIPRAP SLOPE PROTECTION
15. EXISTING PAVEMENT TO REMAIN
16. REMOVE AND SALVAGE MEDIAN TOPSOIL
18. REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
19. EXISTING GROUND
20. EROSION CONTROL MATTING

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

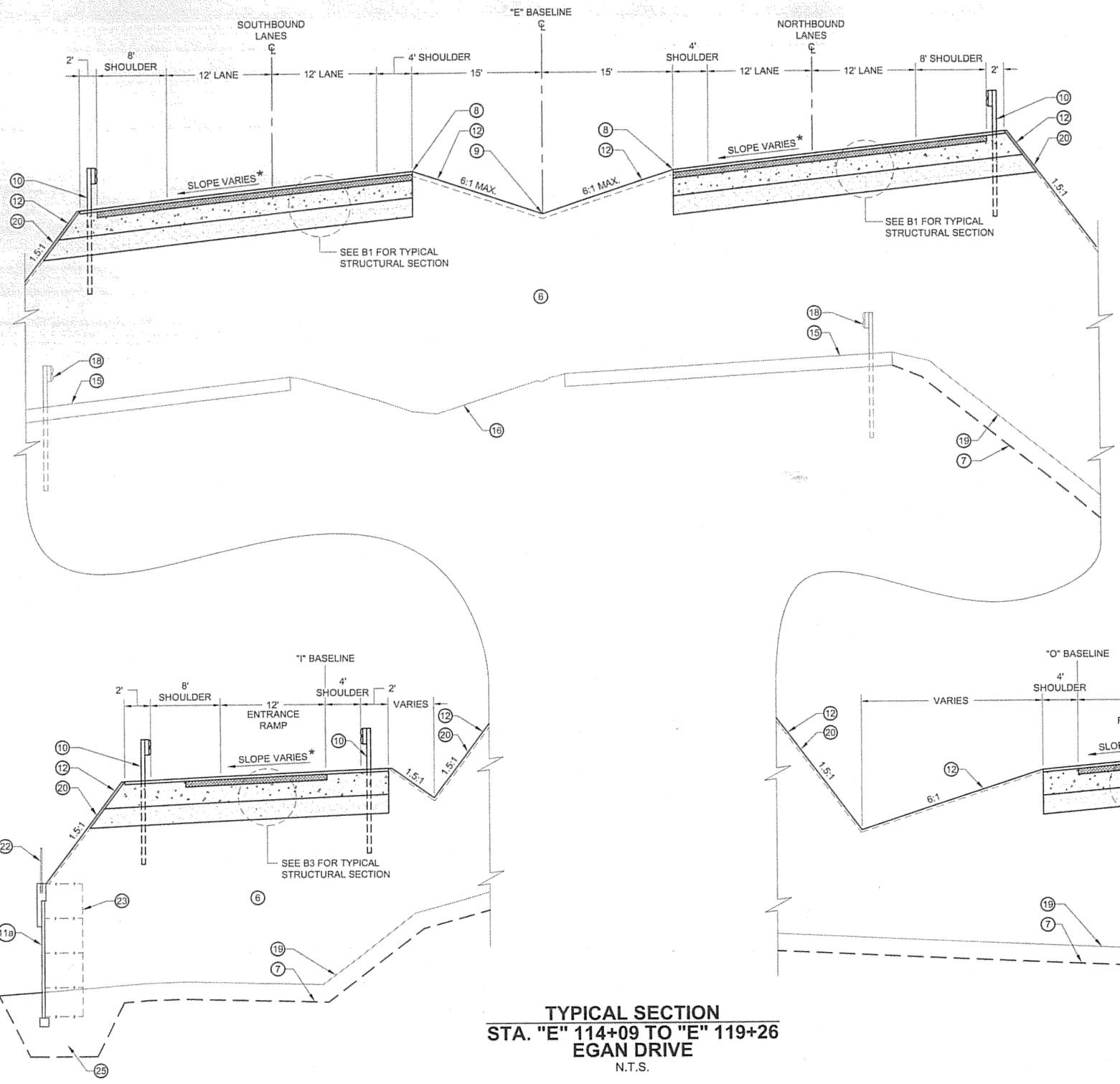
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DRAWN BY: STAFF

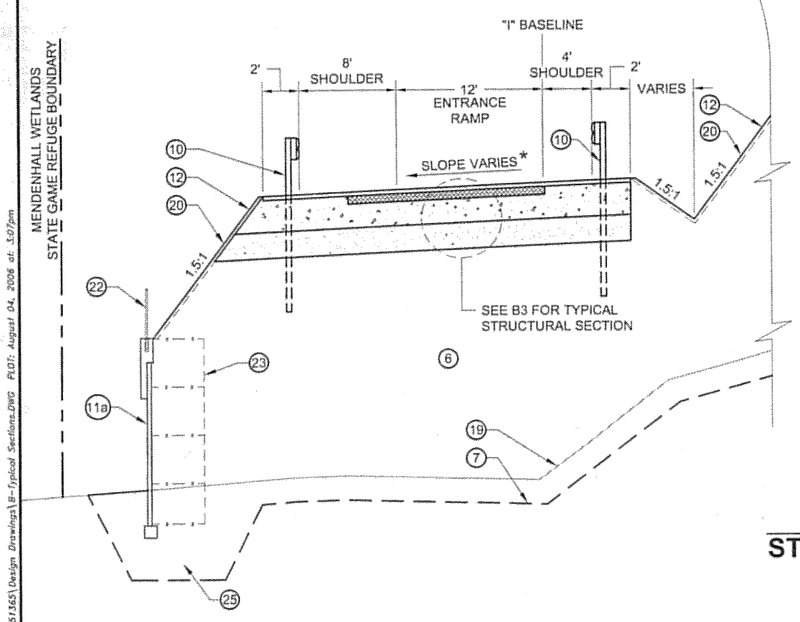
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

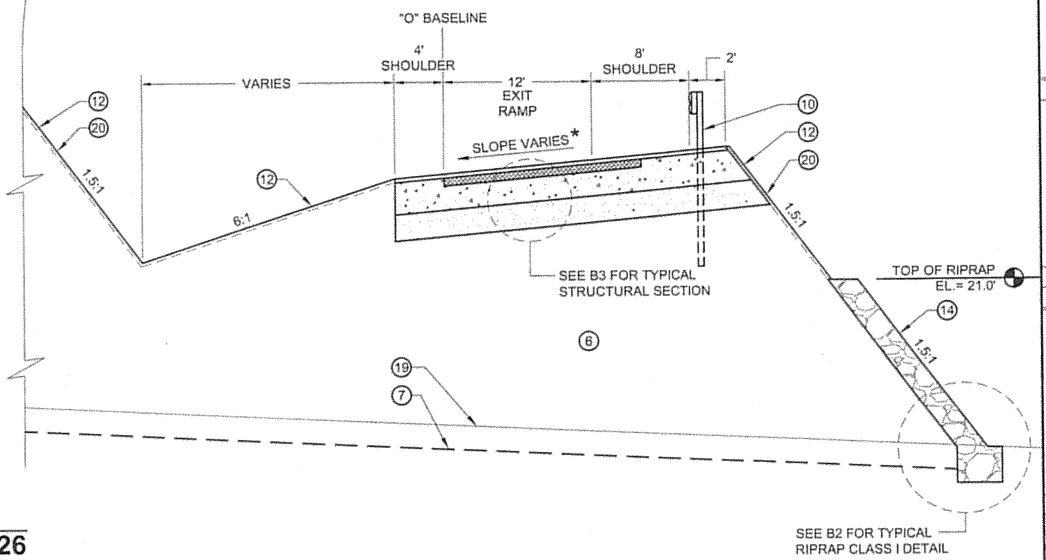
Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B3	**269**

A:\2005\051463\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:07pm







TYPICAL SECTION
STA. "E" 114+09 TO "E" 119+26
EGAN DRIVE
N.T.S.

★ SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (11a) MSE RETAINING WALL W/ SMOOTH FINISH, SEE SHEET J6
- (12) 4" TOPSOIL AND HYDROSEED
- (14) 1' THICK CLASS I RIPRAP SLOPE PROTECTION
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (18) REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING
- (22) SAFETY RAILING, SEE SHEET J16
- (23) MSE WALL REINFORCEMENT AND BACKFILL
- (25) MSE WALL FOUNDATION FILL

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
PROFESSIONAL ENGINEER
8-4-06

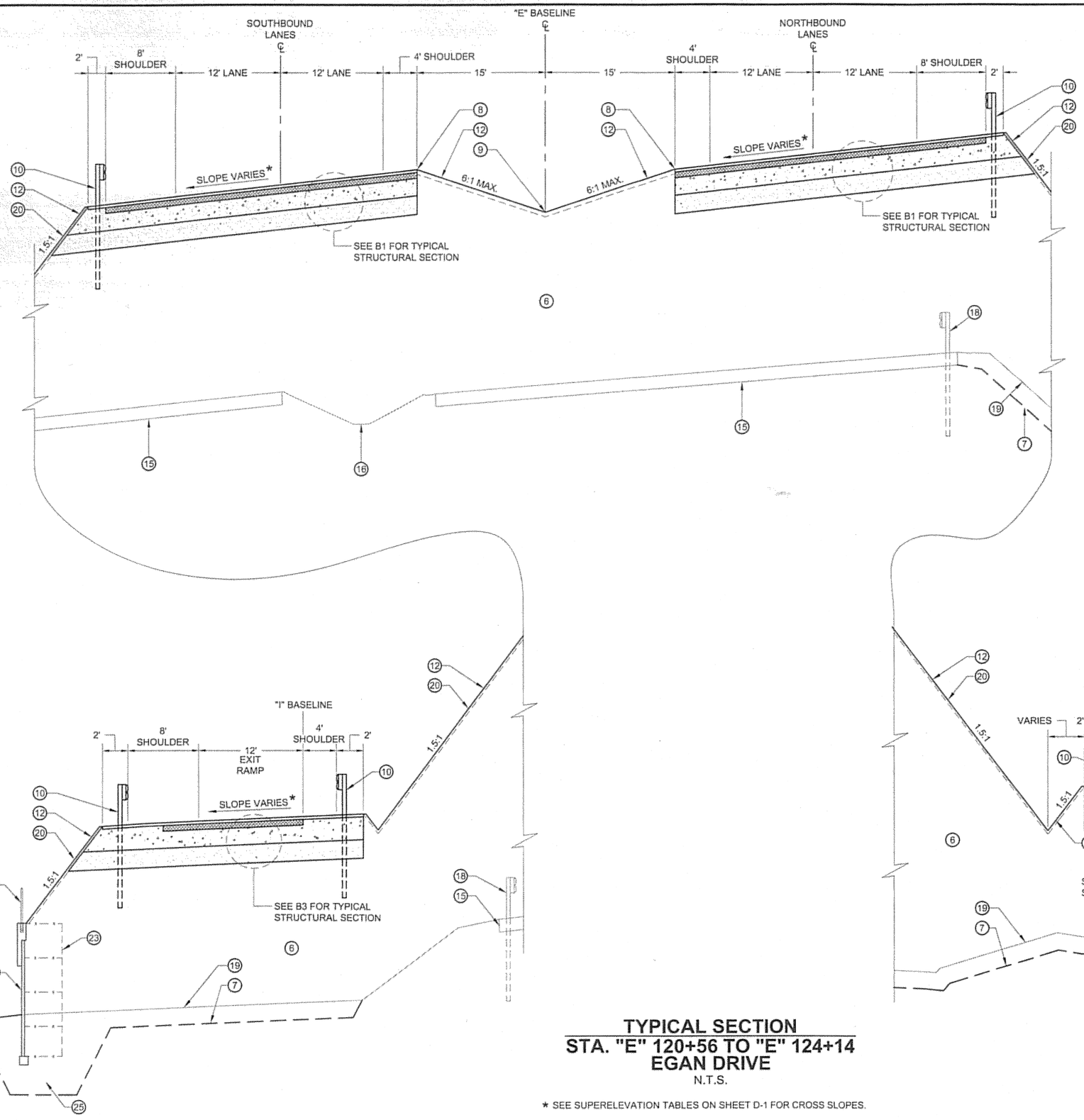
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DRAWN BY: STAFF

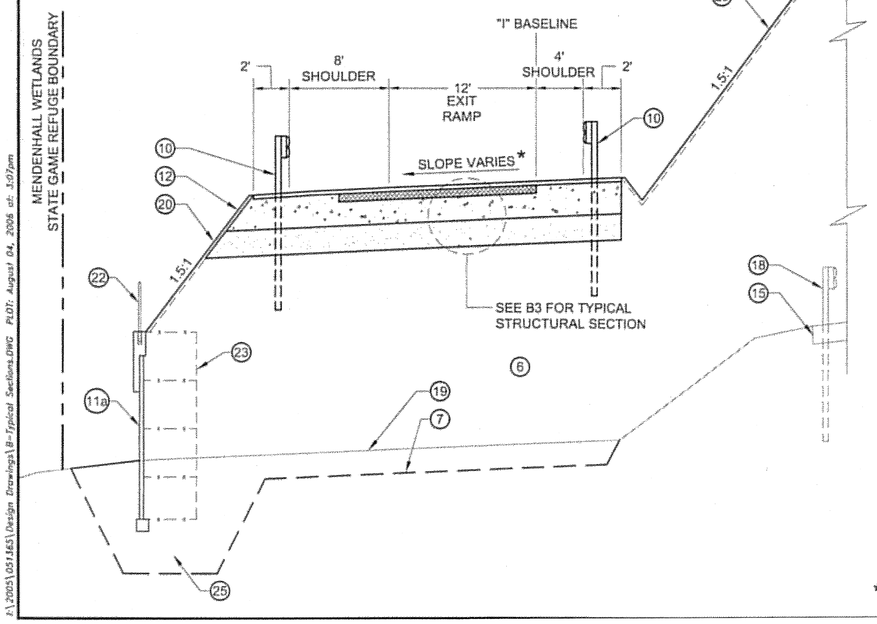
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

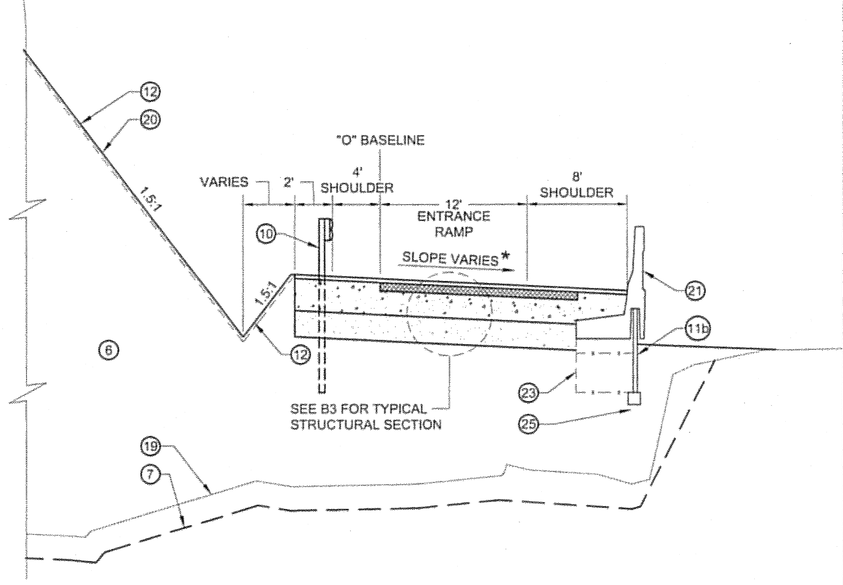
Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B4	269

I:\2005\0511651\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:07pm







LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (11a) MSE RETAINING WALL W/ SMOOTH FINISH, SEE SHEET J6
- (11b) MSE RETAINING WALL W/ PATTERN FINISH, SEE SHEET J6
- (12) 4" TOPSOIL AND HYDROSEED
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (18) REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING
- (21) CONCRETE VEHICLE BARRIER, SEE SHEET J10
- (22) SAFETY RAILING, SEE SHEET J16
- (23) MSE WALL REINFORCEMENT AND BACKFILL
- (25) MSE WALL FOUNDATION FILL

TYPICAL SECTION
STA. "E" 120+56 TO "E" 124+14
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8153 — 8-4-06

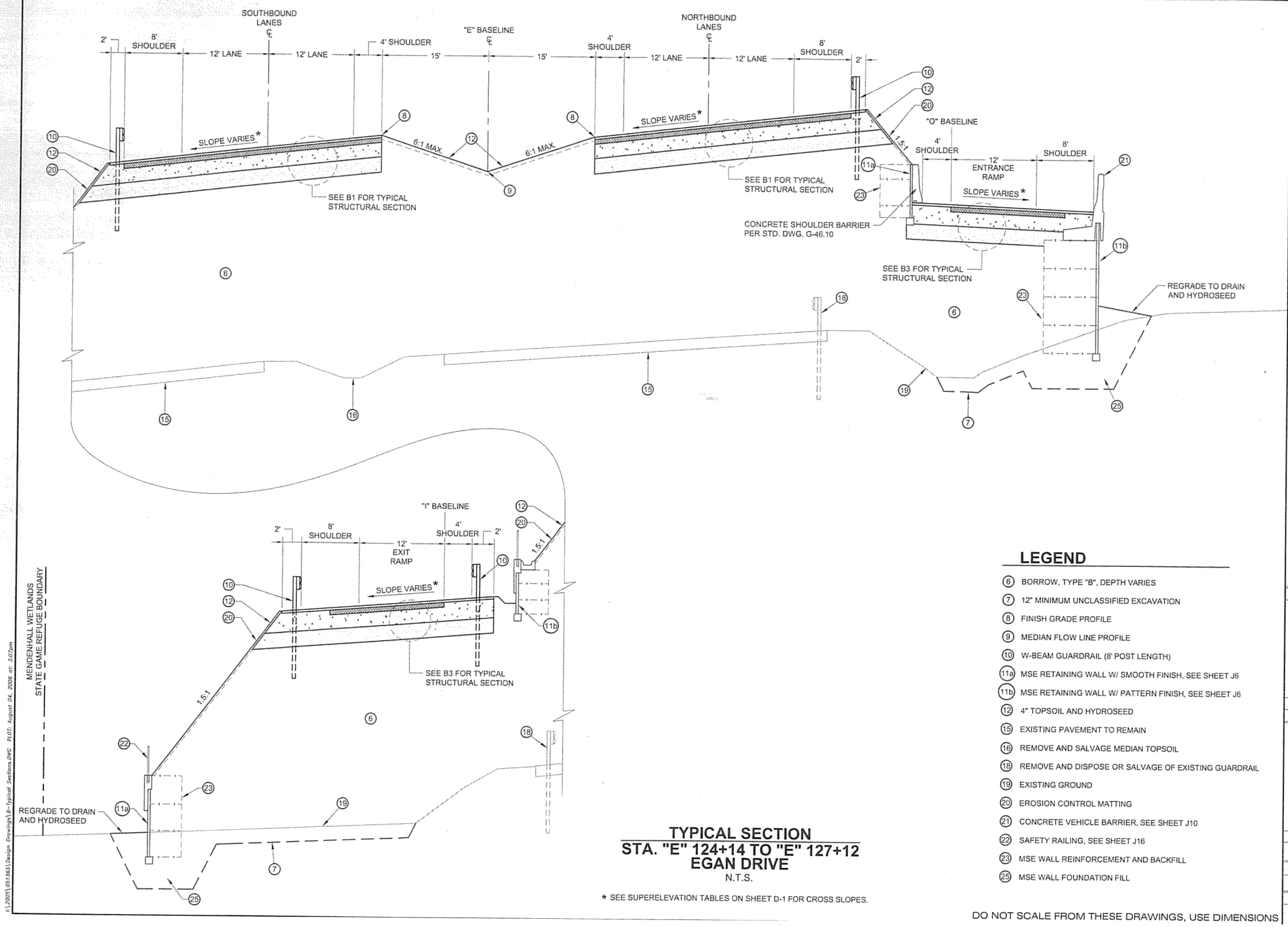
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B5	269

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TYPICAL SECTION
STA. "E" 124+14 TO "E" 127+12
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (11a) MSE RETAINING WALL W/ SMOOTH FINISH, SEE SHEET J6
- (11b) MSE RETAINING WALL W/ PATTERN FINISH, SEE SHEET J6
- (12) 4" TOPSOIL AND HYDROSEED
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (18) REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING
- (21) CONCRETE VEHICLE BARRIER, SEE SHEET J10
- (22) SAFETY RAILING, SEE SHEET J16
- (23) MSE WALL REINFORCEMENT AND BACKFILL
- (25) MSE WALL FOUNDATION FILL

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

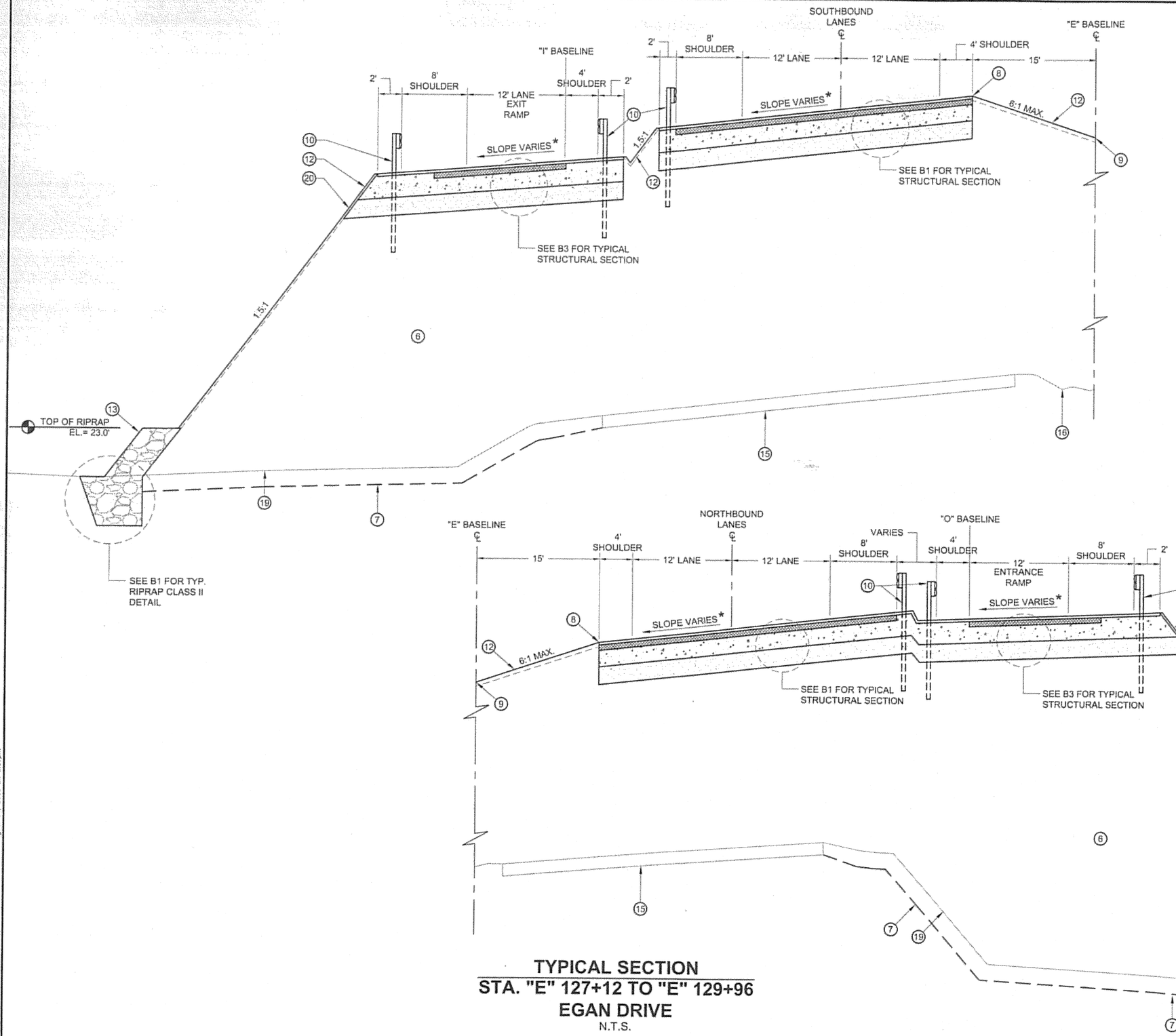
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B6	269

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TYPICAL SECTION
STA. "E" 127+12 TO "E" 129+96
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (12) 4" TOPSOIL AND HYDROSEED
- (13) 2.5' THICK CLASS II RIPRAP SLOPE PROTECTION
- (14) 1' THICK CLASS I RIPRAP SLOPE PROTECTION
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

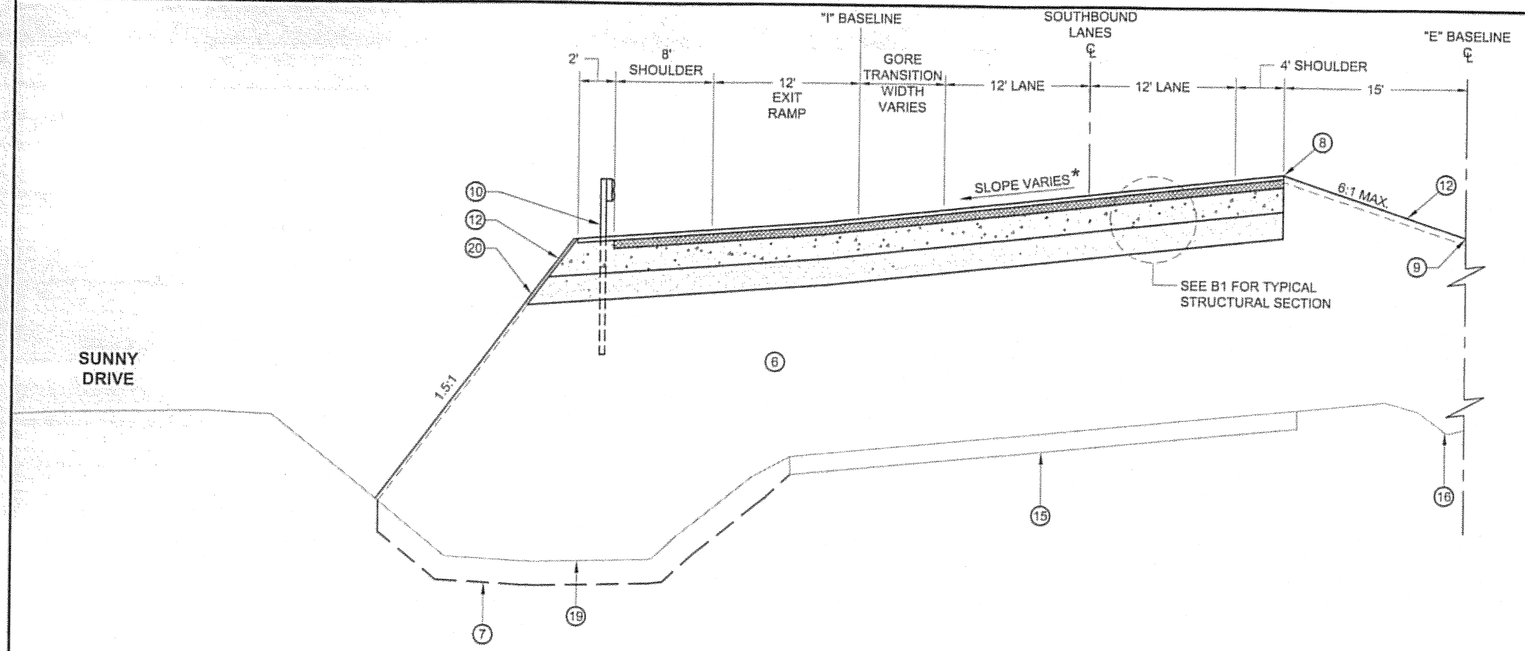
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

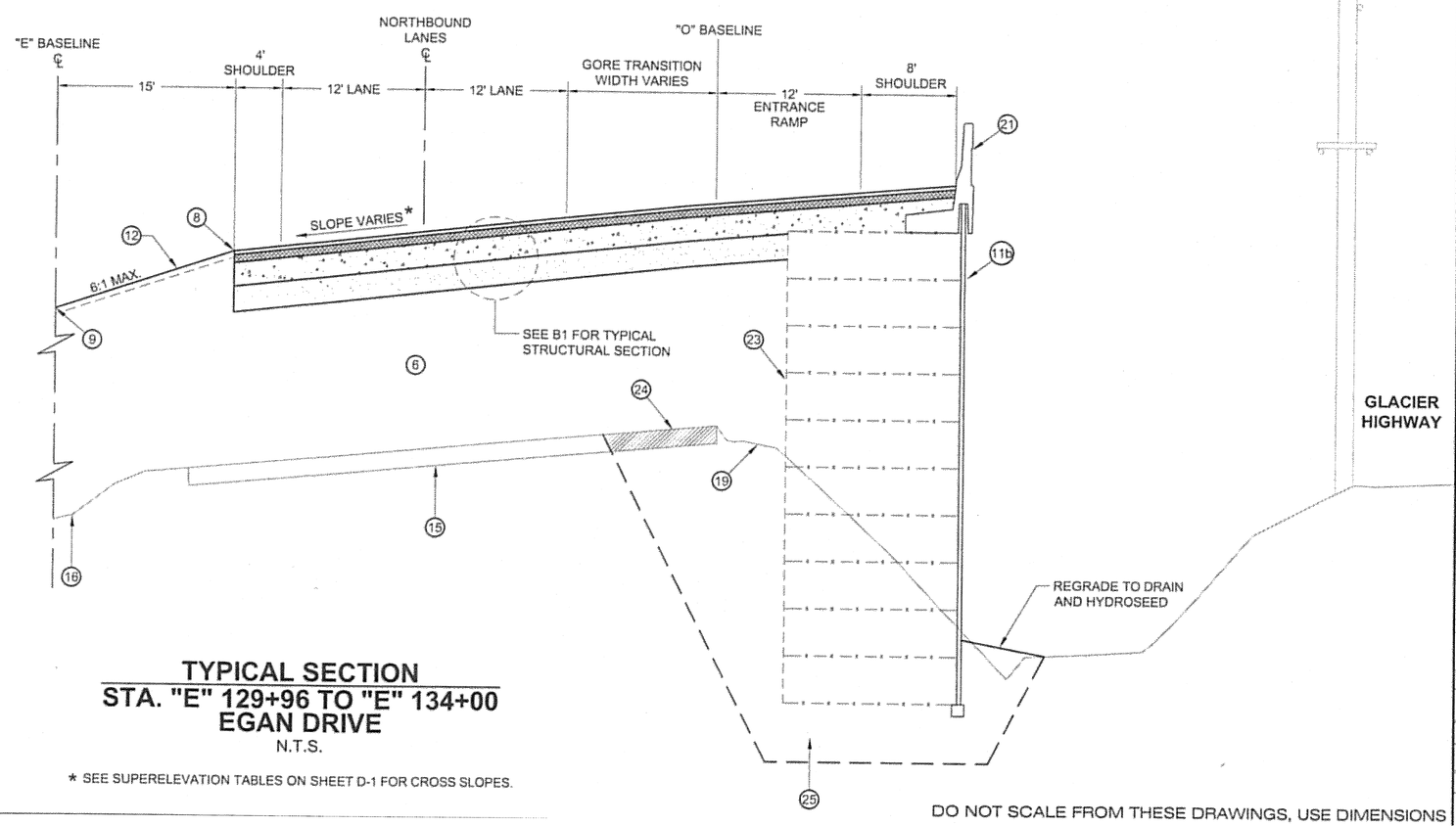
Typical Sections

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B7	269

E:\2005\051453\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:07pm





LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (11b) MSE RETAINING WALL W/ PATTERN FINISH, SEE SHEET J6
- (12) 4" TOPSOIL AND HYDROSEED
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (18) REMOVE AND DISPOSE OR SALVAGE OF EXISTING GUARDRAIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING
- (21) CONCRETE VEHICLE BARRIER, SEE SHEET J10
- (23) MSE WALL REINFORCEMENT AND BACKFILL
- (24) REMOVAL OF EXISTING PAVEMENT
- (25) MSE WALL FOUNDATION FILL

TYPICAL SECTION
STA. "E" 129+96 TO "E" 134+00
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8132 8-4-06

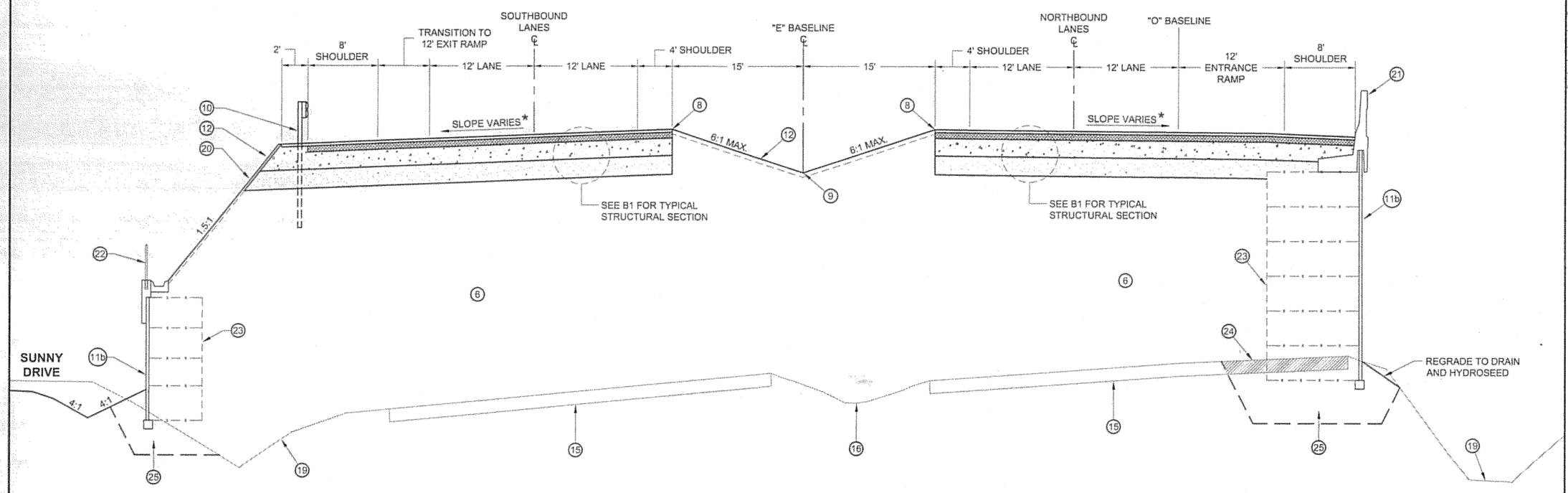
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B8	269

A:\2005\05-1563\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:08pm



TYPICAL SECTION
STA. "E" 134+00 TO "E" 136+35
EGAN DRIVE
N.T.S.

* SEE SUPERELEVATION TABLES ON SHEET D-1 FOR CROSS SLOPES.

LEGEND

- (6) BORROW, TYPE "B", DEPTH VARIES
- (7) 12" MINIMUM UNCLASSIFIED EXCAVATION
- (8) FINISH GRADE PROFILE
- (9) MEDIAN FLOW LINE PROFILE
- (10) W-BEAM GUARDRAIL (8' POST LENGTH)
- (11b) MSE RETAINING WALL W/ PATTERN FINISH, SEE SHEET J6
- (12) 4" TOPSOIL AND HYDROSEED
- (15) EXISTING PAVEMENT TO REMAIN
- (16) REMOVE AND SALVAGE MEDIAN TOPSOIL
- (19) EXISTING GROUND
- (20) EROSION CONTROL MATTING
- (21) CONCRETE VEHICLE BARRIER, SEE SHEET J10
- (22) SAFETY RAILING, SEE SHEET J16
- (23) MSE WALL REINFORCEMENT AND BACKFILL
- (24) REMOVAL OF EXISTING PAVEMENT
- (25) MSE WALL FOUNDATION FILL

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Typical Sections

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Typical Sections

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
B9	**269**

A:\2005\051563\Design Drawings\B-Typical Sections.DWG PLOT: August 04, 2006 at: 3:08pm

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
201 (3b)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202 (2)	REMOVAL OF PAVEMENT	SQUARE YARD	~~12,100~~ 3389.50
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	~~1,542~~ 1547.90
202 (9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	~~780~~ 976.50
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	~~37,765~~ 40444.58
203 (6a)	BORROW, TYPE A	TON	~~44,530~~ 45716.49
203 (6b)	BORROW, TYPE B	TON	~~542,602~~ 530680.01
203 (19)	DITCH GRADING	LINEAR FOOT	~~1,200~~ 2721.0
205 (3)	FOUNDATION FILL	CUBIC YARD	~~5,900~~ 4880.61
207 (1)	SHEETING, SHORING AND BRACING	LUMP SUM	ALL REQUIRED
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	~~905~~ 11386.90
304 (1)	SUBBASE, GRADING B	TON	~~39,875~~ 48327.30
306 (1)	ATB	TON	~~13,890~~ 14326.16
401 (1)	ASPHALT CONCRETE, SP, TYPE B	TON	~~8,180~~ 8896.98
401 (2)	ASPHALT CEMENT, PG-64-28	TON	~~1,120~~ 1248.70
401 (3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401 (4)	TEMPORARY PAVEMENT	SQUARE YARD	~~25,800~~ 35751.80
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	~~21~~ 19.35
408 (1)	PAVEMENT COLD PLANING	SQUARE YARD	~~11,472~~ 1720.60
501 (1)	CLASS A CONCRETE	LUMP SUM	ALL REQUIRED
501 (7a)	PRECAST CONCRETE MEMBER (119' x 4'-6" GIRDERS)	EACH	14
501 (7b)	PRECAST CONCRETE MEMBER (58' x 3'-6" GIRDERS)	EACH	18
501 (8)	CONCRETE PRICE ADJUSTMENT	CONTINGENT SUM	~~ALL REQUIRED~~ 0
503 (1)	REINFORCING STEEL	LUMP SUM	ALL REQUIRED
503 (2)	EPOXY-COATED REINFORCING STEEL	LUMP SUM	ALL REQUIRED
504 (3)	PATTERNED CUT-OUTS	LUMP SUM	ALL REQUIRED
505 (5)	FURNISH STRUCTURAL STEEL PILES (HP 14X117)	LINEAR FOOT	5,410
505 (6)	DRIVE STRUCTURAL STEEL PILES (HP 14X117)	EACH	64
505 (10)	SPECIAL PILE EXCAVATION	CONTINGENT SUM	~~ALL REQUIRED~~ 0
507 (4)	CONCRETE BRIDGE RAILING	LINEAR FOOT	~~1,024~~ 1028.0
507 (6)	SAFETY RAILING	LINEAR FOOT	~~1,898~~ 1907.0
508 (1)	WATERPROOFING MEMBRANE	LUMP SUM	ALL REQUIRED
511 (1a)	MSE CONCRETE WALL - PATTERN FINISH	SQUARE FOOT	~~37,905~~ 38371.03
511 (1b)	MSE CONCRETE WALL - SMOOTH FINISH	SQUARE FOOT	~~10,360~~ 10467.39
514 (1)	FORM LINERS FOR ARCHITECTURAL ELEMENTS	SQUARE FOOT	~~960~~ 948.70
603 (9-48)	48 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	~~285~~ 281.50
603 (9-120)	120 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	~~425~~ 421.0
603 (10-19)	19'-0" X 17'-3" CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	~~460~~ 460.0
603 (10-57)	57" X 38" CORRUGATED ALUMINUM PIPE ARCH	LINEAR FOOT	82
603 (17-48T)	48 INCH TEMPORARY PIPE	LINEAR FOOT	~~41~~ 29.0
603 (17-60T)	60 INCH TEMPORARY PIPE	LINEAR FOOT	~~100~~ 118.0
603 (19T)	72" X 44" TEMPORARY PIPE ARCH	LINEAR FOOT	36
603 (21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~950~~ 1048.60
603 (21-24)	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~1,869~~ 1690.90
603 (21-36)	36 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~210~~ 235.10
603 (22)	14'-1" X 6'-2" ALUMINUM BOX CULVERT	LINEAR FOOT	~~67.5~~ 68.0
603 (23)	STREAM BED MATERIAL	CUBIC YARD	~~845~~ 874.03
604 (1-48)	STORM SEWER MANHOLE, 48" DIAMETER	EACH	~~22~~ 19.0
604 (1-96)	STORM SEWER MANHOLE, 96" DIAMETER	EACH	3
604 (2)	SANITARY SEWER MANHOLE	EACH	~~2~~ 1.0
604 (5)	INLET, TYPE "A"	EACH	5
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	~~12,101~~ 11943.0
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	~~2,387~~ 2376.0
606 (9)	CONTROLLED RELEASE TERMINAL (CRT) ITEM NOT USED	EACH	~~12~~ 0
606 (11)	EXTRUDER TERMINAL (ET-2000)	EACH	9
606 (12)	GUARDRAIL/BRIDGE RAIL CONNECTION	EACH	24
606 (13)	REACT 350 CRASH CUSHION ITEM NOT USED	EACH	~~1~~ 0
607 (3)	CHAIN LINK FENCE	LINEAR FOOT	~~880~~ 892.0
608 (1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	~~386~~ 497.10
608 (3)	ASPHALT SIDEWALK	SQUARE YARD	~~730~~ 617.80
608 (6)	CURB RAMP	EACH	~~13~~ 15
608 (7)	PATTERNED CONCRETE SLOPE	SQUARE FOOT	~~7,125~~ 7144.40
609 (2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	~~1,373~~ 2683.0
609 (7)	EXPRESSWAY CURB	LINEAR FOOT	~~718~~ 292.50
611 (1a)	RIPRAP, CLASS I	CUBIC YARD	~~600~~ 411.80
611 (1b)	RIPRAP, CLASS II	CUBIC YARD	~~1,550~~ 3189.10
614 (1)	CONCRETE BARRIER	LINEAR FOOT	~~1,698~~ 1709.0
614 (2)	SHOULDER BARRIER	LINEAR FOOT	~~308~~ 316.50
614 (3)	VEHICLE BARRIER	LINEAR FOOT	~~1,439~~ 1420.0
615 (1)	STANDARD SIGN	SQUARE FOOT	~~760~~ 668.50
615 (5a)	DELINEATOR, FLEXIBLE (TYPE A)	EACH	2
615 (5b)	DELINEATOR, FLEXIBLE (TYPE B) ITEM NOT USED	EACH	~~53~~ 0
615 (7)	STANDARD OVERHEAD SIGN AND BASE ITEM NOT USED	EACH	~~2~~ 0
618 (2a)	SEEDING, SCHEDULE A	ACRE	~~9~~ 6.9764
619 (2)	MATTING	SQUARE YARD	~~16,800~~ 877.10
620 (1)	TOPSOIL 4" DEPTH	SQUARE YARD	~~19,550~~ 3346.50
621 (2a)	SHRUBS (2 FOOT HEIGHT)	EACH	~~332~~ 335.0
621 (5)	VEG MAT SALVAGE AND RELOCATION	SQUARE YARD	~~6,722~~ 300.0
625 (1)	PIPE HAND RAIL	LINEAR FOOT	115.60

ESTIMATE OF QUANTITIES (CONT.)

ITEM NO.	ITEM	UNIT	TOTAL
626 (1-8)	SANITARY SEWER CONDUIT, 8 INCH D.I.P.	LINEAR FOOT	~~220~~ 208.0
626 (1-~~12~~) 10	SANITARY SEWER CONDUIT, ~~12~~ 10 INCH PVC	LINEAR FOOT	~~152~~ 148.2
626 (3)	RELOCATE EXISTING SANITARY SEWER PRESSURE MAIN	LUMP SUM	ALL REQUIRED
628 (1)	ADJUSTMENT OF VALVE BOX ITEM NOT USED	EACH	~~1~~ 0
628 (2)	RELOCATE EXISTING WATER MAIN	LUMP SUM	~~ALL REQUIRED~~ 0
629 (1)	DORMANT WILLOW CUTTINGS	EACH	~~1,800~~ 1783.0
633 (1)	SILT FENCE	LINEAR FOOT	~~9,100~~ 10530.0
635 (1)	INSULATION BOARD	PER BOARD	~~60~~ 35.0
637 (1)	CONCRETE STAIRS	LUMP SUM	ALL REQUIRED
637 (2)	CONCRETE HEADWALLS	EACH	6
638 (1)	STREAM CHANNEL CONSTRUCTION	LINEAR FOOT	~~1,100~~ 1010.0
640 (1)	MOBILIZATION & DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641 (1)	EROSION & POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION & POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (4)	TEMPORARY EROSION & POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	ALL REQUIRED
641 (6)	PRELIMINARY SEEDING	ACRE	1.20
641 (7)	TEMPORARY CHECK DAM	EACH	~~28~~ 25.0
641 (8)	MAINTAINING FLOW AT FISH STREAMS	EACH	4
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (3)	THREE-PERSON SURVEY PARTY	HOUR	~~100~~ 2.00
642 (4)	SET PRIMARY MONUMENT	EACH	4
642 (5)	SET SECONDARY MONUMENT ITEM NOT USED	EACH	~~5~~ 0
642 (11)	ADJUST EXISTING MONUMENT CASE	EACH	~~8~~ 7.0
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643 (12)	PORTABLE CONCRETE BARRIER ITEM NOT USED	EACH	~~3,750~~ 0.0
643 (15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643 (29)	PORTABLE CHANGEABLE MESSAGE BOARD SIGN ITEM NOT USED	EACH	~~2~~ 0
643 (30)	PORTABLE SPEED MONITORING RADAR DISPLAY UNIT	EACH	2
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
645 (1)	TRAINING PROGRAM, 3 TRAINEES/APPRENTICES	LABOR HOUR	1,500
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
660 (1)	TRAFFIC SIGNAL SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660 (3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660 (8)	TEMPORARY ILLUMINATION SYSTEM COMPLETE	LUMP SUM	~~ALL REQUIRED~~ 0
660 (12)	UNDERPASS LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660 (14)	DEMOLITION OF EXISTING LIGHTING SYSTEM	LUMP SUM	ALL REQUIRED
660 (15)	UNINTERRUPTIBLE POWER SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED
660 (16)	SIGNAL CABINET SHOP TESTING	CONTINGENT SUM	~~ALL REQUIRED~~ 0
660 (17)	4" PVC SCHEDULE 80 FUTURE USE CONDUIT	LINEAR FOOT	~~1,260~~ 1180.0
661 (1)	LOAD CENTER, TYPE 1	EACH	2
661 (3)	LOAD CENTER, TYPE 2	EACH	1
667 (1)	AUTOMATED TRAFFIC RECORDER	EACH	3
668 (1)	AUTOMATED VEHICLE VOLUME - DRY BOX (AVV-DB)	EACH	3
670 (1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED
670 (8)	RECESSED PAVEMENT MARKER	EACH	~~282~~ 464.0
670 (9)	REMOVAL OF PAVEMENT MARKINGS	MILE	~~4.2~~ 7.161
670 (10)	METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

UTILITY REIMBURSABLE AGREEMENTS (RSA) ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	RSA PROJECT ACS No. 69025	RSA PROJECT AEL&P No. 69026	RSA PROJECT CBJ No. 69030	RSA PROJECT GCI No. 69031
202 (2)	REMOVAL OF PAVEMENT	SQUARE YARD	0	0	~~222~~ 553.70	0
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	TON	0	0	~~87~~ 35.63	0
401 (1)	ASPHALT CONCRETE, SP, TYPE B	TON	0	0	~~30~~ 24.59	0
401 (2)	ASPHALT CEMENT, PG-64-28	TON	0	0	~~2.2~~ 1.35	0
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	0	0	~~0.05~~ 0	0
603 (21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	0	0	~~215~~ 209.50	0
604 (2)	SANITARY SEWER MANHOLE	EACH	0	0	1	0
626 (1-8)	SANITARY SEWER CONDUIT, 8 INCH D.I.P.	LINEAR FOOT	0	0	~~220~~ 208.0	0
626 (1-~~12~~) 10	SANITARY SEWER CONDUIT, ~~12~~ 10 INCH PVC	LINEAR FOOT	0	0	~~152~~ 148.2	0
660 (17)	4" PVC SCHEDULE 80 FUTURE USE CONDUIT	LINEAR FOOT	~~210~~ 191.0	~~840~~ 798.0	0	~~210~~ 191.0

NOTE: QUANTITIES SHOWN IN THIS SUMMARY TABLE ARE INCLUDED IN MAIN ESTIMATES OF QUANTITIES. THIS TABLE IDENTIFIES QUANTITIES ASSOCIATED WITH UTILITY REIMBURSABLE SERVICE AGREEMENTS.

BASIS OF ESTIMATE

ITEM NO.	ITEM	QUANTITY
203 (6a)	BORROW, TYPE A	1.90 TONS/CUBIC YARD
203 (6b)	BORROW, TYPE B	1.90 TONS/CUBIC YARD
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	1.96 TONS/CUBIC YARD
304 (1)	SUBBASE, GRADING B	1.85 TONS/CUBIC YARD
306 (1)	ATB	117 LB./SQ. YARD/IN. DEPTH
401 (1)	ASPHALT CONCRETE, SP, TYPE B	120 LB./SQ. YARD/IN. DEPTH
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	6% OF ITEM 401 (1) & 4.5% OF ITEM 306 (1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	0.07 GAL./SQ. YARD, 253 GAL./ TON @ 60°C

LIST OF ABBREVIATIONS & SYMBOLS

ABBREVIATIONS

ACS = ALASKA CABLE SYSTEM
AEL&P = ALASKA ELECTRIC LIGHT & POWER
C.A.P. = CORRUGATED ALUMINUM PIPE
CBJ = CITY AND BOROUGH OF JUNEAU
C.O.E. = CORPS OF ENGINEERS
GCI = GLOBAL COMMUNICATIONS INC
M.T.E. = MATCH TO EXISTING
M.W.S.G.R = MENDENHALL WETLANDS STATE GAME REFUGE
U.O.N. = UNLESS OTHERWISE NOTED

SYMBOLS

DETAIL NO. / SHEET NO. → B / 4

NOTE:
IF NO SHEET NUMBER IS CALLED OUT, THE DETAIL IS ON THE SAME SHEET WHERE CALL OUT OCCURS.

INDICATES WORK IN A STREAM OR DITCH SUBJECT TO FISH HABITAT AND/OR C.O.E. PERMIT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Estimate of Quantities & Basis of Estimate

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER
9-8-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Estimate of Quantities & Basis of Estimate

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
C1	269

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CULVERT SUMMARY

PIPE NUMBER	PIPE SIZE & TYPE	PIPE LENGTH	FROM STRUCTURE	FROM INVERT	TO STRUCTURE	TO INVERT	COMMENTS
P-1	24" CPP	~~78'~~ 76'	S-1	20.31'	"E" 107+80.0, 78.2' LT	18.75'	
P-2	19'-0"x17'-3" CAPA	230'	"E" 112+01.6, 135.7' RT	8.71'	"E" 111+96.8, 94.3' LT.	7.67'	SEE NOTE 7, CONCRETE HEADWALLS @ EACH END
P-3	19'-0"x17'-3" CAPA	230'	"E" 112+36.7, 135.1' RT.	9.71'	"E" 112+34.3, 94.9' LT.	8.67'	SEE NOTE 7, CONCRETE HEADWALLS @ EACH END
P-4	24" CPP	~~64'~~ 65.3'	S-2	26.77'	S-3	23.57'	
P-5	24" CPP	~~295'~~ 297'	S-3 "E" 116+36.81' RT	23.49'	S-4	20.54'	
P-6	24" CPP	73'	S-4 "E" 116+35.1, RT	20.46'	"E" 116+34.8, 154.4' RT.	19.00'	
P-7	18" CPP	~~264'~~ 260'	S-5	25.04'	S-6	19.45'	
P-8	24" CPP	37.1'	S-6 "E" 119+49.1, LT	19.37'	"E" 119+39.8, 124.3' LT.	19.00'	
P-9	24" CPP	~~98'~~ 100.3'	S-7	42.44'	S-8	20.10'	
P-10	24" CPP	105.6'	S-8	20.02'	S-6	19.45'	
P-11	120" CAP	~~256'~~ 252'	"E" 121+46.0, 129.6' RT.	16.50'	"E" 121+33.3, 126.1' LT.	12.66'	
P-12	24" CPP	~~125'~~ 135'	S-9 "E" 128+05, LT	38.50'	"E" 128+05.0, 117.1' LT.	23.50'	OUTFALL PROTECTION PER DETAIL ON SHEET J3
P-13	120" CAP	~~169'~~	"E" 129+00.6, 82.4' RT.	16.21'	"E" 128+95.5, 86.6' LT.	14.51'	
P-14	57"x38" CAPA	82'	"E" 134+04.1, 163.4' RT.	18.19'	S-10	17.77'	
P-15	48" CAP	~~95'~~ 85'	S-10	17.77'	S-11	17.27'	
P-16	48" CAP	~~124'~~ 126.8'	S-11 "E" 133+30.50' LT	17.27'	S-12	16.61'	
P-17	48" CAP	~~66'~~ 69.7'	S-12 "E" 132+61.4, 173.8' LT	16.61'	"E" 132+61.4, 173.8' LT.	16.26'	
P-18	24" CPP	~~76'~~ 76.6'	S-13 "E" 131+91, LT	35.00'	"E" 134+50.0, 75.0' LT.	25.00'	OUTFALL PROTECTION PER DETAIL ON SHEET J3
P-19	24" CPP	27'	S-29	22.18'	S-30	21.91'	
P-20	NOT USED	-	-	-	-	-	
P-21	24" CPP	~~68'~~ 70.2'	S-15 "E" 137+15, LT	31.35'	"E" 139+14.7, 68.0' LT.	29.55'	
P-22	14'-1"x6'-2" ALUM. BOX CULVERT	~~67.5'~~ 68'	"E" 123+89.3, 406.4' RT.	25.12'	"E" 123+58.8, 348.5' RT.	23.77'	CONCRETE HEADWALL @ EACH END
P-23	24" CPP	~~50'~~ 49.6'	"S" 13+64.9, 23.3' RT.	21.75'	"S" 13+62.5, 26.7' LT.	21.00'	
P-24	18" CPP	225'	S-14 "E" 135+88 → 138+06, RT	36.73'	S-16	34.38'	
P-25	24" CPP	~~45'~~ 46.7'	S-17 "S" 13+28, RT	35.72'	"S" 13+28.1, 48.8' RT.	22.50'	OUTFALL PROTECTION PER DETAIL ON SHEET J3
P-26	18" CPP	78'	S-16	34.30'	S-18	33.52'	
P-27	24" CPP	52'	S-19	38.87'	S-6	19.45'	
P-28	24" CPP	~~123'~~ 125.0'	S-20 "E" 119+50 → 126+50, 35' RT	24.74'	S-21	23.51'	
P-29	24" CPP	~~168'~~ 169.5'	S-21	23.43'	S-22	21.75'	
P-30	18" CPP	78'	S-23	22.13'	S-25	21.74'	
P-31	24" CPP	86'	S-22 14+48 → 14+29	21.67'	S-24	21.24'	
P-32	18" CPP	84'	S-25	21.66'	S-24	21.24'	
P-33	24" CPP	~~32'~~ 34'	S-24 "G" 14+48, LT	21.16	"G" 14+48.1, 73.7' LT.	21.00'	OUTFALL PROTECTION PER DETAIL ON SHEET J3
P-34	36" CPP	~~163'~~ 175.1'	"E" 134+01.6, 69.9' RT.	21.25'	"E" 133+46.9, 83.9' LT.	20.44'	
P-35	36" CPP	~~53'~~ 60'	"S" 16+59.4, 23.9' RT.	20.27'	"S" 16+81.9, 29.1' LT.	20.00'	
P-36	24" CPP	~~150'~~ 154'	S-27	24.42'	S-28	23.52'	
P-37	24" CPP	~~50'~~ 52'	S-28	23.44'	"L" 316+46.9, 40.6' LT.	21.50'	
P-38	24" CPP	~~33'~~ 31'	S-30 "S" 10+65, LT	21.83'	"S" 10+65.2, 45.8' LT.	21.50'	
P-39	18" CPP	~~14'~~ 15.6'	S-31 "S" 12+50, 28' LT	21.67'	"S" 12+50.0, 28.0' LT.	21.25'	
P-40	24" CPP	~~14'~~ 13'	"S" 10+72.1, 27.5' RT.	22.40'	S-29	22.26'	
P-41	24" CPP	~~20'~~ 21'	S-18 "E" 138+83, RT	29.50'	"E" 138+83.5, 78.0' RT.	27.90'	
P-42	18" CPP	~~210'~~ 209.5'	"E" 136+39.9, 72.4' RT.	20.65'	"E" 136+41.2, 137.6' LT.	20.65'	

ABBREVIATIONS
CPP = CORRUGATED POLYETHYLENE PIPE
CMP = CORRUGATED METAL PIPE
CAP = CORRUGATED ALUMINUM PIPE
CAPA = CORRUGATED ALUMINUM PIPE ARCH
ALUM. = ALUMINUM

SPECIAL NOTE

THE FISH SYMBOL INDICATES WORK IN A STREAM OR DITCH SUBJECT TO FISH HABITAT AND/OR C.O.E. PERMIT

"E" LINE SUPERELEVATION TABLE

BS	PX	PY	BMS	EMS	PY	PX	ES	MSE
"E" 107+54.08	"E" 108+62.08	"E" 109+70.08	"E" 111+62.08	"E" 132+27.43	"E" 134+19.43	"E" 135+27.43	"E" 136+35.43	5.58%

"I" LINE SUPERELEVATION TABLE

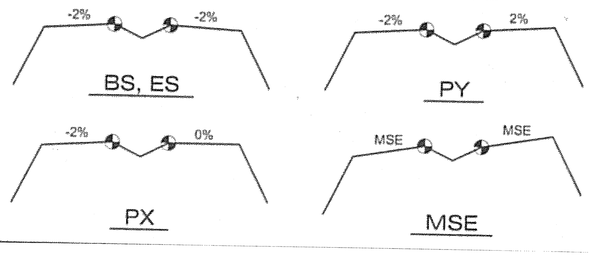
BS	PX	PY	BMS	EMS	PY	PX	ES	MSE
"I" 104+14.80	N/A	N/A	"I" 104+93.80	"I" 110+63.12	N/A	N/A	"I" 111+42.12	4.25%
"I" 118+58.03	N/A	N/A	"I"119+41.03	"I" 122+62.90	N/A	N/A	"I" 123+45.90	4.51%

"O" LINE SUPERELEVATION TABLE

BS	PX	PY	BMS	EMS	PY	PX	ES	MSE
"O" 101+31.38	"O" 101+96.38	"O" 102+61.38	"O"103+46.38	"O" 109+17.17	"O" 110+02.17	"O" 110+67.17	"O" 111+32.17	4.62%
"O" 118+31.51	"O" 119+16.51	"O" 120+01.51	"O" 120+66.51	"O" 120+71.75	TRANSITION TO NEXT BMS			4.38%
N/A	N/A	N/A	"O" 122+71.75	"O" 124+32.23	"O" 125+13.23	"O" 125+82.23	"O" 126+51.23	4.38%

ABBREVIATIONS
BS = BEGINNING OF SUPERELEVATION
PX = POINT WHERE ADVERSE CROWN IS REMOVED
PY = POINT WHERE OUTSIDE LANE ACHIEVES REVERSE CROWN
BMS = BEGINNING OF MAXIMUM SUPERELEVATION
EMS = END OF MAXIMUM SUPERELEVATION
ES = END OF SUPERELEVATION
MSE = MAXIMUM SUPERELEVATION RATE

POINT OF ROTATION



DRAINAGE NOTES:

1. STATIONING FOR THE CULVERT PIPES, MANHOLES AND INLETS ARE APPROXIMATE AND MAY BE ADJUSTED TO BETTER FIT FIELD CONDITIONS WITH ENGINEER'S APPROVAL.
2. INVERT ELEVATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH ENGINEER'S APPROVAL.
3. UNLESS OTHERWISE NOTED ON THE PLANS, ALL INLETS AND MANHOLES ARE TO BE CONSTRUCTED WITH AN 18 INCH SUMP.
4. THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE INSTALLING PIPES P-14 AND P-22 AT THE UNNAMED CREEK AND EAST CREEK CULVERT REMOVAL AND INSTALLATION CROSSINGS. THE CBJ WATER DISTRIBUTION MAIN AND CBJ FORCE MAIN SEWER LINES ARE ESSENTIAL PUBLIC SYSTEMS. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE ENGINEER AND CBJ PUBLIC WORKS DEPARTMENT A WORK PLAN FOR RELOCATING ANY OF THESE UTILITIES A MINIMUM OF 14 DAYS IN ADVANCE OF THE RELOCATION WORK. ALL UTILITY RELOCATION WORK WILL OCCUR BETWEEN THE HOURS OF 10:00 P.M. AND 6:00 A.M. TO MINIMIZE DISRUPTION TO THE PUBLIC.
5. THE FOLLOWING IS PRESENTED FOR THE CONTRACTORS INFORMATION:
   A) THE PRESSURE IN THE WATER MAIN IS 75-80 PSI AND IS MAINTAINED AT A CONSTANT PRESSURE AND FLOW BY A PRESSURE REDUCING VALVE (PRV).
   B) THE PRESSURE AND VOLUME IN THE FORCE MAIN SEWER LINE VARIES DEPENDING ON THE NUMBER OF VARIABLE SPEED PUMPS ON AT ANY GIVEN TIME. THE PRESSURE AND VOLUME ARE GOVERNED BY 3 VARIABLE SPEED PUMPS LOCATED IN THE SWITZER CREEK PUMP STATION. THE 3 PUMPS ARE MANNED 24 HOURS PER DAY AND MOVE 150,000 TO 400,000 GALLONS OF SEWAGE PER DAY AT 20 TO 60 PSI.
6. ALL KNOWN UNDERGROUND UTILITY LINES ARE SHOWN ON THE PLANS. SHOULD THE EXISTING WATER AND PRESSURE SEWER MAINS BE DAMAGED, THEY ARE TO BE SHUT DOWN USING THE PROCEDURES ESTABLISHED PRIOR TO BEGINNING ANY WORK. AN INFORMATION MEETING SHALL BE CONDUCTED TO DISCUSS REPAIR OF THE UTILITY LINE(S) ACCIDENTALLY DAMAGED DURING CONSTRUCTION. THE TOPICS TO BE DISCUSSED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING;
   A) WHO IS TO SHUT DOWN THE DAMAGED LINE(S), IF THE LINE(S) ARE TO BE SHUT DOWN BY SOMEONE OTHER THAN THE OWNER AND HOW THE LINE IS TO BE SHUT DOWN.
   B) WHO IS TO MAKE THE REPAIRS AND WHEN.
   C) WHAT REPAIR PARTS ARE LOCATED IN JUNEAU.
   D) WHO & HOW THE LINES ARE TO BE PUT BACK IN SERVICE.
   E) HOW THE USERS ARE TO BE NOTIFIED.
7. 19'-0" x 17'-3" CORRUGATED ALUMINUM PIPE ARCH CULVERT IN STREAM WORK TO BE COMPLETED BETWEEN MAY 15 AND JULY 15. SEE APPENDIX B FOR ENVIRONMENTAL COMMITMENTS.

STORM DRAIN STRUCTURE SUMMARY

STRUCTURE NUMBER	TYPE	STATION	OFFSET LT.	OFFSET RT.	TOP OF GRATE ELEVATION	COMMENTS
S-1	48" SDMH	"E" 107+80.00	0.0'	0.0'	24.80'	W/ SUMP, FIELD INLET
S-2	48" SDMH	"E" ~~113+50.00~~ 113+47	0.0'	0.0'	32.50'	W/ SUMP, FIELD INLET
S-3	48" SDMH	"E" 113+48.65		64.26'	29.25'	W/ SUMP, FIELD INLET
S-4 C03	60" ~~48"~~ SDMH	"E" 116+35.88		81.10'	25.80'	W/ 24" SUMP AND PETROLEUM SEPARATOR, FIELD INLET
S-5	INLET TYPE "A"	"E" 116+71.54	70.75'		30.35'	W/ SUMP, FIELD INLET
S-6	48" SDMH	"E" 119+40.05	86.93'		23.50'	W/ SUMP, FIELD INLET
S-7	48" SDMH	"E" 120+79.07	0.0'	0.0'	48.65'	W/ SUMP, FIELD INLET
S-8	48" SDMH	"E" 120+48.70	90.05'		24.00'	W/ SUMP, FIELD INLET
S-9	48" SDMH	"E" 128+50.00	0.0'	0.0'	46.65'	W/ SUMP, FIELD INLET
S-10	96" SDMH	"E" 133+75.22		87.55'	27.00'	W/ SUMP, SOLID WATERTIGHT LID
S-11	96" SDMH	"E" ~~133+39.71~~ 132+39	0.0'	0.0'	41.60'	W/ SUMP, SOLID WATERTIGHT LID
S-12	96" SDMH	"E" 132+90.01	113.15'		24.30'	W/ SUMP, SOLID WATERTIGHT LID
S-13	48" SDMH	"E" 134+50.00	~~0.0'~~ 3'	0.0'	40.10'	W/ SUMP, FIELD INLET
S-14	INLET TYPE "A"	"E" 135+80.12		60.83'	40.84'	W/ SUMP
S-15	48" SDMH	"E" 139+14.65	~~0.0'~~ 4'	0.0'	36.35'	W/ SUMP, FIELD INLET
S-16	INLET TYPE "A"	"E" 138+05.12		60.83'	38.38'	W/ SUMP
S-17	48" SDMH	"E" 130+24.02	77.70'		44.87'	W/ 24" SUMP AND PETROLEUM SEPARATOR
S-18	48" SDMH	"E" 138+82.79		57.99'	LID = 38.25'	W/ SUMP
S-19	48" SDMH	"E" 119+08.88	49.17'		47.02'	W/ 24" SUMP AND PETROLEUM SEPARATOR
S-20	48" SDMH	"G" 11+50.00	42.00'		31.00'	W/ SUMP, FIELD INLET
S-21	48" SDMH	"G" ~~12+50.00~~ 12+00		30.00'	29.65'	W/ SUMP, FIELD INLET
S-22	48" SDMH	"G" 14+29.37		43.26'	25.75'	W/ SUMP, FIELD INLET
S-23	INLET TYPE "A"	"G" 15+17.26		40.87'	24.75'	W/ SUMP, FIELD INLET
S-24 C03	60" ~~48"~~ SDMH	"G" 14+40.77	42.00'		25.55'	W/ 24" SUMP AND PETROLEUM SEPARATOR, FIELD INLET
S-25	INLET TYPE "A"	"G" 15+21.53	37.50'		24.60'	W/ SUMP, FIELD INLET
S-26						NOT USED
S-27	48" SDMH	"L" 314+50.00	24.00'		28.42'	W/ SUMP
S-28	48" SDMH	"L" 316+00.00	22.00'		27.52'	W/ 24" SUMP AND PETROLEUM SEPARATOR
S-29	48" SDMH	"S" 10+72.05		13.50'	26.30'	W/ SUMP
S-30 C03	60" ~~48"~~ SDMH	"S" 10+72.05	13.50'		26.30'	W/ 24" SUMP AND PETROLEUM SEPARATOR
S-31	48" SDMH	"S" 12+50.00	13.50'		25.36'	W/ 24" SUMP AND PETROLEUM SEPARATOR

NOTE: STATION AND OFFSET GIVEN IS TO CENTERLINE OF STRUCTURE.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Summary Sheet

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
8406

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
ECT No. 71431

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE RTapper Date 10/24/06

Summary Sheet

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
D1	269

A:\2005\051465\Design Drawings\D-ESTIMATES & SUMMARYS.dwg PLOT: August 04, 2006 at: 1:48pm

202 (2) REMOVAL OF PAVEMENT SUMMARY

FROM STATION	TO STATION	OFFSET LT.	OFFSET RT.	AREA (S.Y.)	COMMENTS
"E" 111+70	"E" 112+64	X	X	823	EXISTING EGAN DRIVE NORTHBOUND AND SOUTHBOUND LANES AT SWITZER CREEK, APPROX. 9" DEPTH
"E" 121+24	"E" 121+55	X	X	319	EXISTING EGAN DRIVE NORTHBOUND AND SOUTHBOUND LANES AT EAST CREEK INCLUDING DECELERATION LANE, APPROX. 9" DEPTH
"E" 128+83	"E" 129+13	X	X	319	EXISTING EGAN DRIVE NORTHBOUND AND SOUTHBOUND LANES AT WEST CREEK INCLUDING ACCELERATION LANE, APPROX. 9" DEPTH
"E" 133+27	"E" 133+90	X	X	692	EXISTING EGAN DRIVE NORTHBOUND AND SOUTHBOUND LANES AT UNNAMED CREEK INCLUDING ACCELERATION LANE, APPROX. 9" DEPTH
"E" 129+69	"E" 129+69		X	1,152	NORTH SUNNY DRIVE INTERSECTION
"E" 126+76	"S" 18+91	X		2,857	SUNNY DRIVE ASPHALT REMOVAL, APPROX. 2" DEPTH
"L" 310+10	"L" 310+45	X	X	272	GLACIER HIGHWAY & SIDEWALK FOR PIPE P-22 INSTALLATION AT EAST CREEK
"L" 321+38	"L" 321+78	X	X	202	GLACIER HIGHWAY & SIDEWALK FOR PIPE P-14 INSTALLATION AT UNNAMED CREEK
"G" 10+21	"G" 12+78	X	X	2,937	FORMER K-MART PARKING LOT
"L" 304+17	"L" 306+58		X	167	GLACIER HIGHWAY SIDEWALK
"L" 307+47	"L" 310+00	X		141	GLACIER HIGHWAY SIDEWALK
"L" 315+45	"L" 315+55	X	X	222	RSA No. 69030 - GLACIER HIGHWAY, EGAN DRIVE AND SUNNY DRIVE
"E" 129+27	"E" 130+14	X	X	946	EGAN DRIVE AT NEW SUNNY DRIVE UNDERCROSSING
"E" 119+50	"E" 120+36	X	X	707	EGAN DRIVE AT WEST LEMON VALLEY ACCESS UNDERCROSSING
"O" 114+35	"O" 115+48		X	84	PORTION OF PARTY ZONE PARKING LOT
"E" 146+96	"E" 154+03	X		136	42" HIGH CONCRETE BARRIER ALONG EGAN DRIVE
"L" 314+43	"L" 316+08	X		130	GLACIER HIGHWAY FOR P-36 INSTALLATION
		TOTAL AREA (S.Y.) =		12,106	

202 (4) CULVERT REMOVAL SUMMARY

DESCRIPTION	STATION	OFFSET LT.	OFFSET C	OFFSET RT.	STREET	COMMENTS
157"x101" ARCH PIPE	"E" 111+90		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 167' , SEE NOTE 5
157"x101" ARCH PIPE	"E" 112+08		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 167' , SEE NOTE 5
157"x101" ARCH PIPE	"E" 112+26		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 167' , SEE NOTE 5
157"x101" ARCH PIPE	"E" 112+44		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 167' , SEE NOTE 5
60" CMP	"E" 120+85		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 142'
24" CMP	"E" 126+90			125'	NORTH SUNNY DRIVE	REMOVE AND DISPOSE, LENGTH = 96'
72"x44" ARCH PIPE	"E" 128+92		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 139'
72"x44" ARCH PIPE	"E" 128+96	153'			SUNNY DRIVE	REMOVE AND DISPOSE, LENGTH = 63'
48" CMP	"E" 133+78		X		EGAN DRIVE	REMOVE AND DISPOSE, LENGTH = 150'
24" ACP	"O" 126+18			39'	GLACIER HIGHWAY	REMOVE AND DISPOSE, LENGTH = 80
48" CMP	"S" 15+72		X		SUNNY DRIVE	REMOVE AND DISPOSE, LENGTH = 70'
(2) 48" CMP	"L" 301+28		X		GLACIER HIGHWAY	REMOVE AND DISPOSE, TWIN 48" CMP PIPES WITH CONCRETE HEADWALLS, SAND BAGS, ROCKS AND METAL HANDRAIL ON EACH END AT EAST CREEK, LENGTH = 134'
						TOTAL L.F. = ~~1,542~~ 1,567.9

202 (1) INLET REMOVAL SUMMARY

DESCRIPTION	STATION	OFFSET LT.	OFFSET C	OFFSET RT.	COMMENTS
MEDIAN INLET	"E" 120+85	20'			REMOVE AND DISPOSE

CHAIN LINK FENCE REMOVAL SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"E" 127+40.4, 122.9' RT.	"E" 147+00.0, 75.8' RT.	REMOVE & DISPOSE EXISTING CHAIN LINK FENCE AND FENCE POSTS	2,024'
"E" 134+15.3, 78.9' LT.	"E" 147+00.0, 75.6' LT.	REMOVE & DISPOSE EXISTING CHAIN LINK FENCE AND FENCE POSTS	1,282'
		TOTAL =	3,306'

202 (1) WALL REMOVAL SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"E" 119+21.7, 170.2' RT.	"E" 119+33.1, 142.8' RT.	CONCRETE PANEL MSE WALL WITH GEOGRID	30'
"E" 119+33.1, 142.8' RT.	"E" 119+78.7, 125.8' RT.	ROCKERY RETAINING WALL	51'
"E" 119+78.7, 125.8' RT.	"E" 121+05.7, 176.0' RT.	CONCRETE PANEL MSE WALL WITH GEOGRID	151'
"E" 122+45.4, 132.5' RT.	"E" 123+68.5, 104.9' RT.	ROCKERY RETAINING WALL AT PARTY ZONE	137'
		TOTAL =	369'

202 (1) MISCELLANEOUS REMOVAL SUMMARY

STATION	OFFSET LT.	OFFSET RT.	DESCRIPTION OF ITEM TO BE REMOVED
"E" 123+86		111'	DUMPSTER PAD AND WOODEN SCREEN FENCE AND FENCE POSTS AT FORMER WILLIAMS EXPRESS (PARTY ZONE)
"E" 123+84		99'	METAL SIGN AND CONCRETE SIGN FOUNDATION AT FORMER WILLIAMS EXPRESS (PARTY ZONE) SALVAGE SIGN AND POST
"E" 124+22		110'	METAL BOLLARDS 4 EACH AT FRONT OF LPG TANKS, LPG GAS TANK SCREENING FENCE AND CONCRETE PAD AT FORMER WILLIAMS EXPRESS (PARTY ZONE)
"E" 126+92		49'	SUNNY POINT INTERSECTION MEDIAN, INCLUDING CONCRETE CURB AND ASPHALT PAVEMENT, AREA = 1,675 S.F.
"E" 126+77		193'	SUNNY POINT INTERSECTION CHANNELIZATION ISLAND, INCLUDING CONCRETE CURB AND ASPHALT PAVEMENT, AREA = 217 S.F.
"L" 309+00	0'	0'	GLACIER HIGHWAY PEDESTRIAN ISLAND, INCLUDING CONCRETE CURB AND ASPHALT PAVEMENT, AREA = 498 S.F.

202 (9) CURB AND GUTTER REMOVAL SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"G" 10+22.78, 73.35' RT.	"G" 13+26.37, 80.00' LT.	WEST LEMON VALLEY ACCESS INTERSECTION	~~407'~~
"G" 10+22.14, 84.77' LT.	"G" 10+78.35, 51.80' LT.	WEST LEMON VALLEY ACCESS INTERSECTION	~~183'~~
"G" 10+97.63, 51.59' LT.	"G" 11+32.69, 55.57' LT.	LANDSCAPE ISLAND CURBING	~~100'~~
"L" 306+37.50, 22.44' RT.	"L" 306+57.50, 22.38' RT.	WEST LEMON VALLEY ACCESS INTERSECTION	~~20'~~
"L" 307+40.81, 22.51' RT.	"L" 307+60.81, 22.47' RT.	WEST LEMON VALLEY ACCESS INTERSECTION	~~20'~~
"L" 310+10.92, 22.36' LT.	"L" 310+69.01, 28.30' LT.	EAST CREEK CULVERT INSTALLATION	~~62'~~
"L" 310+10.75, 22.87' RT.	"L" 310+45.04, 23.17' RT.	EAST CREEK CULVERT INSTALLATION	~~34'~~
"L" 321+38.20, 18.32' RT.	"L" 321+78.17, 18.24' RT.	UNNAMED CREEK CULVERT INSTALLATION	~~40'~~
		TOTAL =	~~786'~~ 976.5'

606 (6) GUARDRAIL REMOVAL SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"E" 102+00.0, 53.9' RT.	"E" 121+06.5, 45.3' RT.		~~1,927'~~ 1922'
"E" 111+12.9, 75.7' LT.	"E" 115+77.4, 68.9' LT.		~~460'~~ 454'
		TOTAL =	~~2,387'~~ 2376'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

NOTES:

1. SIGN REMOVAL IS ADDRESSED IN THE SIGN SUMMARY TABLES AND IS INCIDENTAL TO SECTION 615 (1).
2. ALL REMOVALS WILL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.
3. ALL REMOVAL WORK WILL BE PAID AS LUMP SUM IN ACCORDANCE WITH THESE TABLES AND THE SPECIFICATIONS.
4. ALL CULVERTS NOT FULLY REMOVED SHALL HAVE THEIR END(S) CAPPED OR PLUGGED AND FILLED WITH FLOWABLE BACKFILL TO THE ENGINEER'S SATISFACTION.
5. 157" X 101" ARCH PIPE REMOVAL MUST BE REMOVED WITHIN THE IN-WATER WORK TIME, MAY 15 TO JULY 15.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Summary Sheet

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8132 REGISTERED PROFESSIONAL ENGINEER 10/4/06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Summary Sheet

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
D2	269

I:\2005\051563\Design Drawings\10-ESTIMATES & SUMMARYS.dwg PLOT: August 04, 2006 at: 1:45pm

606 (1) W-BEAM GUARDRAIL INSTALLATION SUMMARY

FROM STATION	TO STATION	LENGTH	COMMENTS
"E" 102+00.00, 53.87' RT.	"O" 110+93.75, 20.00' RT.	~~1,765'~~ 1721'	M.T.E. GUARDRAIL
"E" 111+90.31, 51.00' RT.	"E" 118+95.91, 51.00' RT.	~~719'~~ 719'	
"E" 115+34.07, 15.00' RT.	"E" 118+94.64, 15.00' RT.	363'	
"E" 113+66.37, 51.00' LT.	"E" 118+92.24, 51.00' LT.	517'	
"E" 118+62.22, 13.18' LT.	"E" 118+93.57, 15.00' LT.	32'	
"I" 108+52.43, 4.00' RT.	"I" 113+54.24, 4.00' RT.	~~563'~~ 509'	
"E" 100+49.49, 55.30' LT.	"I" 123+44.31, 20.00' LT.	~~2786'~~ 2737'	
"E" 119+12.73, 13.00' RT.	"E" 119+12.73, 12.00' LT.	~~25'~~ 24'	INSTALL IN MEDIAN BETWEEN BRIDGES
"E" 120+72.94, 13.00' RT.	"E" 120+73.67, 12.00' LT.	25'	INSTALL IN MEDIAN BETWEEN BRIDGES
"I" 115+29.94, 4.00' RT.	"I" 122+61.20, 4.40' RT.	~~739'~~ 737'	
"E" 120+93.38, 51.00' LT.	"E" 128+15.35, 51.00' LT.	~~709'~~ 711'	
"E" 120+92.04, 15.00' LT.	"E" 123+62.24, 15.00' LT.	269'	
"E" 120+90.76, 15.00' RT.	"E" 121+22.00, 13.33' RT.	32'	
"E" 120+89.70, 51.00' RT.	"E" 128+75.31, 51.00' RT.	~~801'~~ 792'	
"E" 125+39.98, 15.00' RT.	"E" 129+02.95, 15.00' RT.	~~365'~~ 360'	
"E" 128+70.91, 12.60' LT.	"E" 129+02.25, 14.42' LT.	32'	
"O" 112+73.44, 4.00' LT.	"O" 115+77.73, 4.00' LT.	~~304'~~ 302'	
"O" 119+21.00, 4.00' LT.	"O" 120+82.13, 4.00' LT.	~~161'~~ 159'	
"O" 118+34.30, 20.00' RT.	"O" 120+80.98, 20.00' RT.	~~248'~~ 236'	
"E" 129+20.79, 12.93' RT.	"E" 129+20.37, 12.07' LT.	~~25'~~ 23'	INSTALL IN MEDIAN BETWEEN BRIDGES
"E" 130+20.37, 12.93' RT.	"E" 130+20.79, 12.07' LT.	25'	INSTALL IN MEDIAN BETWEEN BRIDGES
"E" 130+38.09, 15.00' RT.	"E" 130+69.12, 13.33' RT.	32'	
"E" 130+38.93, 15.00' LT.	"E" 132+86.84, 15.00' LT.	~~247'~~ 249'	
"I" 124+80.98, 20.00' LT.	"E" 136+16.91, 51.00' LT.	~~567'~~ 574'	
"E" 138+70.71, 62.30' RT.	"E" 146+86.11, 51.00' RT.	~~816'~~ 771'	
	TOTAL =	~~12,187'~~ 11943'	SEE NOTE

NOTE: LENGTHS DO NOT INCLUDE END TERMINAL OR TRANSITION SECTIONS.

SRT-350

606 (~~9~~ 10) ~~CRT~~ INSTALLATION SUMMARY

FROM STATION	TO STATION	COMMENTS
"E" 100+43.32, 56.40' LT.	"E" 100+49.49, 55.30' LT.	1 EACH
"E" 113+60.00, 51.00' LT.	"E" 113+66.37, 51.00' LT.	1 EACH
"I" 108+46.19, 4.00' RT.	"I" 108+52.43, 4.00' RT.	1 EACH
"I" 115+23.69, 4.00' RT.	"I" 115+29.94, 4.00' RT.	1 EACH
"E" 118+56.08, 11.77' LT.	"E" 118+62.22, 13.18' LT.	1 EACH
"O" 110+93.75, 20.00' RT.	"O" 111+00.00, 20.00' RT.	1 EACH
"E" 121+22.00, 13.33' RT.	"E" 121+28.10, 12.02' RT.	1 EACH
"E" 128+64.78, 11.20' LT.	"E" 128+70.91, 12.60' LT.	1 EACH
"E" 128+75.31, 51.00' RT.	"E" 128+81.44, 51.00' RT.	1 EACH
"O" 120+82.13, 4.00' LT.	"O" 120+88.39, 4.00' LT.	1 EACH
"E" 130+69.12, 13.33' RT.	"E" 130+75.22, 12.02' RT.	1 EACH
"E" 146+86.11, 51.00' RT.	"E" 146+92.36, 51.00' RT.	1 EACH
	TOTAL =	12 EACH

NOTE: CO #25
DELETE's 606(9).
ESTABLISHs 606(10).

606 (11) ET 2000 END TREATMENT INSTALLATION SUMMARY

FROM STATION	TO STATION	COMMENTS
"E" 111+53.50, 52.00' RT.	"E" 111+90.31, 51.00' RT.	1 EACH
"E" 114+96.78, 14.00' RT.	"E" 115+34.07, 15.00' RT.	1 EACH
"I" 113+54.24, 4.00' RT.	"I" 113+91.73, 5.00' RT.	1 EACH
"O" 112+35.87, 5.00' LT.	"O" 112+73.44, 4.00' LT.	1 EACH
"O" 112+45.55, 22.58' RT.	"O" 112+82.42, 20.41' RT.	1 EACH
"E" 123+62.24, 15.00' LT.	"E" 124+00.00, 14.00' LT.	1 EACH
"E" 125+02.68, 14.00' RT.	"E" 125+39.98, 15.00' RT.	1 EACH
"E" 132+86.84, 15.00' LT.	"E" 133+24.53, 14.00' LT.	1 EACH
"E" 153+50.98, 51.00' LT.	"E" 153+88.47, 52.00' LT.	1 EACH
	TOTAL =	9 EACH

606 (12) GUARDRAIL/BRIDGE RAIL CONNECTION SUMMARY

FROM STATION	TO STATION	COMMENTS
"E" 118+95.91, 51.00' RT.	"E" 119+13.74, 51.92' RT.	1 EACH
"E" 118+94.64, 15.00' RT.	"E" 119+12.72, 15.21' RT.	1 EACH
"E" 118+93.57, 15.00' LT.	"E" 119+11.84, 14.09' LT.	1 EACH
"E" 118+92.24, 51.00' LT.	"E" 119+10.77, 50.79' LT.	1 EACH
"E" 120+71.81, 51.92' RT.	"E" 120+89.70, 51.00' RT.	1 EACH
"E" 120+72.88, 15.22' RT.	"E" 120+90.76, 15.00' RT.	1 EACH
"E" 120+73.72, 14.09' LT.	"E" 120+92.04, 15.00' LT.	1 EACH
"E" 120+74.85, 50.79' LT.	"E" 120+93.38, 51.00' LT.	1 EACH
"O" 112+82.42, 20.41' RT.	"O" 113+00.00, 20.54' RT.	1 EACH
"O" 115+77.73, 4.00' LT.	"O" 115+95.71, 4.00' LT.	1 EACH
"O" 118+16.07, 20.00' RT.	"O" 118+34.30, 20.00' RT.	1 EACH
"O" 119+03.01, 4.00' LT.	"O" 119+21.00, 4.00' LT.	1 EACH
"O" 120+80.99, 20.00' RT.	"O" 120+98.76, 20.38' RT.	1 EACH
"E" 128+15.35, 51.00' LT.	"E" 128+33.68, 51.00' LT.	1 EACH
"I" 122+61.20, 4.40' RT.	"I" 122+79.10, 5.13' RT.	1 EACH
"I" 123+44.31, 20.00' LT.	"I" 123+62.47, 20.06' LT.	1 EACH
"E" 129+02.25, 14.42' LT.	"E" 129+20.32, 14.68' LT.	1 EACH
"E" 129+02.95, 15.00' RT.	"E" 129+20.83, 15.26' RT.	1 EACH
"E" 130+20.32, 15.26' RT.	"E" 130+38.09, 15.00' RT.	1 EACH
"E" 130+20.86, 14.68' LT.	"E" 130+38.93, 15.00' LT.	1 EACH
"I" 124+63.01, 20.65' LT.	"I" 124+80.98, 20.00' LT.	1 EACH
"E" 136+16.91, 51.00' LT.	"E" 136+35.06, 51.00' LT.	1 EACH
"E" 138+52.61, 63.38' RT.	"E" 138+70.71, 62.30' RT.	1 EACH
"E" 153+33.00, 51.00' LT.	"E" 153+50.98, 51.00' LT.	1 EACH
	TOTAL =	24 EACH

~~606 (13) REACT 350 CRASH CUSHION INSTALLATION SUMMARY~~

FROM STATION	TO STATION	COMMENTS
~~"E" 129+07.60, 53.34' LT.~~	~~"E" 129+39.55, 53.26' LT.~~	~~1 EACH~~
	TOTAL =	~~1 EACH~~

615 (5) FLEXIBLE DELINEATOR SUMMARY TYPE A

FROM STATION	TO STATION	COLOR	QUANTITY	
			TYPE "A"	TYPE "B" (Chevron Bracket 17)
"G" 10+66.0, 0'	"G" 14+19.0, 0'	YELLOW	2	
"E" 102+00.0, 55.3' RT.	"O" 111+00.0, 21.4' RT.	WHITE		~~4~~
"E" 102+00.0, 14.0' RT.	"E" 146+96.0, 14.0' RT.	YELLOW		~~9~~
"E" 102+00.0, 14.0' LT.	"E" 146+96.0, 14.0' LT.	YELLOW		~~9~~
"E" 100+43.3, 56.4' LT.	"E" 136+35.1, 51.0' LT.	WHITE		~~7~~
"E" 111+53.5, 51.9' RT.	"E" 128+81.4, 51.0' RT.	WHITE		~~4~~
"O" 103+00.0, 5.0' LT.	"O" 111+15.4, 5.0' LT.	YELLOW		~~3~~
"E" 113+60.0, 51.0' LT.	"E" 128+33.7, 51.0' LT.	WHITE		~~5~~
"I" 108+46.2, 5.0' RT.	"I" 113+91.7, 6.0' RT.	WHITE		~~3~~
"I" 115+23.7, 5.0' RT.	"I" 122+79.1, 6.0' RT.	WHITE		~~3~~
"O" 112+35.9, 6.0' LT.	"O" 120+88.4, 5.0' LT.	YELLOW		~~3~~
"O" 112+45.6, 23.6' RT.	"O" 119+60.0, 21.0' RT.	WHITE		~~2~~
"E" 138+52.6, 64.4' RT.	"E" 146+92.4, 52.0' RT.	WHITE		~~3~~
	TOTALS =		2	~~33~~ 62

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Joseph M. Pusich Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Summary Sheet

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 19TH Joseph M. Pusich CE 8152 8486

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Summary Sheet

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
D3	**269**

I:\2005\051483\Design Drawings\D-ESTIMATES & SUMMARYS.dwg PLOT: August 04, 2006 at: 1:48pm

660 (17) 4" PVC CONDUIT SUMMARY

FROM STATION	TO STATION	COMMENTS	TOTAL LENGTH
"E" 136+35.2, 73.4' RT.	"E" 136+35.2, 136.6' LT.	(2) 4" SCHD. 80 PVC CONDUITS	~~420'~~ 382'
"E" 145+47.8, 81.3' RT.	"E" 145+39.9, 128.5' LT.	(4) 4" SCHD. 80 PVC CONDUITS	~~840'~~ 798'
		TOTAL =	~~1,260'~~ 1180'

607 (3) CHAIN LINK FENCE SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"E" 138+26.60, 64.33' RT.	"E" 147+~~09~~10.00, 76.00' RT.		~~880'~~ 892'
		TOTAL =	~~880'~~ 892'

608 (1a) CONCRETE SIDEWALK, 4" THICK SUMMARY

FROM STATION	TO STATION	COMMENTS	AREA (S.Y.)
"S" 10+46.88, 14.67' LT.	"S" 12+99.17, 15.30' LT.		~~189.14~~
"S" 10+52.66, 19.06' RT.	"S" 12+48.42, 14.50' RT.		~~196.37~~
		TOTAL S.Y.=	~~385.51~~ 497.10

608 (3) ASPHALT SIDEWALK SUMMARY

FROM STATION	TO STATION	COMMENTS	AREA (S.Y.)
"G" 10+24.14, 84.78' LT.	"G" 10+26.79, 69.27' LT.		~~8.32~~
"G" 10+36.73, 52.59' LT.	"G" 10+39.90, 49.44' LT.		~~2.35~~
"G" 10+37.47, 40.48' RT.	"G" 10+40.65, 37.34' RT.		~~2.35~~
"G" 10+24.78, 73.34' RT.	"G" 10+27.48, 57.12' RT.		~~8.33~~
"L" 309+98.52, 24.19' LT.	"L" 310+54.05, 24.24' LT.		~~48.94~~
"L" 309+95.97, 24.60' RT.	"L" 310+60.29, 24.96' RT.		~~49.86~~
"L" 311+21.85, 25.00' LT.	"L" 312+28.46, 25.00' LT.		~~60.25~~
"L" 312+97.00, 25.00' LT.	"L" 316+93.85, 30.47' LT.		~~220.74~~
"S" 10+33.59, 44.39' RT.	"S" 10+36.81, 35.34' RT.		~~5.00~~
"L" 321+38.20, 20.32' RT.	"L" 321+78.21, 20.24' RT.		~~28.17~~
		TOTAL S.Y.=	~~434.31~~ 617.80

608 (6) CURB RAMPS SUMMARY

FROM STATION	TO STATION	COMMENTS	EACH
"L" 306+37.50, 24.44' RT.	"L" 306+57.50, 24.38' RT.	WEST LEMON / GLACIER HWY. INTERSECTION	1
"L" 307+40.81, 24.51' RT.	"L" 307+60.81, 24.47' RT.	WEST LEMON / GLACIER HWY. INTERSECTION	1
"G" 10+26.79, 69.27' LT.	"G" 10+36.73, 52.59' LT.	WEST LEMON / GLACIER HWY. INTERSECTION	1
"G" 10+39.90, 49.44' LT.	"G" 10+48.97, 42.97' LT.	WEST LEMON / GLACIER HWY. INTERSECTION	1
"G" 10+~~50~~37.48, ~~57~~37.12' RT.	"G" 10+37.47, 40.48' RT.	WEST LEMON / GLACIER HWY. INTERSECTION	1
"G" 10+~~50~~37.65, ~~37~~37.34' RT.	"G" 10+49.74, 30.89' RT.	WEST LEMON / GLACIER HWY. INTERSECTION	1
"L" 310+~~60~~67.03, 24.25' LT.	"L" 310+67.30, 29.23' LT.	PARTY ZONE DRIVEWAY	1
"L" 311+08.69, 30.00' LT.	"L" 311+21.85, 25.00' LT.	PARTY ZONE DRIVEWAY	1
"L" 312+~~35~~41.46, 25.00' LT.	"L" 312+41.72, 30.00' LT.	PARTY ZONE DRIVEWAY	1
"L" 312+~~80~~83.64, 30.00' LT.	"L" 312+96.92, 25.00' LT.	PARTY ZONE DRIVEWAY	1
"S" 10+~~35~~32.93, 23.48' RT.	"S" 10+46.88, 14.67' LT.	SUNNY DRIVE / GLACIER HWY. INTERSECTION	1
"S" 10+~~32~~36.81, 35.34' RT.	"S" 10+52.66, 19.06' RT.	SUNNY DRIVE / GLACIER HWY. INTERSECTION	1
"S" 12+99.17, 15.30' LT.	"S" 13+09.64, 27.16' LT.	SUNNY DRIVE / GLACIER HWY. INTERSECTION	1
"S" 12+40, RT		SUNNY DRIVE 1 EACH TOTAL =	~~13~~ 15
"L" 309+65, 18.5' RT		GLACIER Hwy 1 EACH	

609 (2) CURB & GUTTER, TYPE I SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"G" 10+24.14, 84.78' LT.	"G" 10+48.97, 42.97' LT.	LOCATION GIVEN TO TOP BACK OF CURB	~~51.5'~~
"G" 10+24.78, 73.34' RT.	"G" 10+49.74, 30.89' RT.	LOCATION GIVEN TO TOP BACK OF CURB	~~52.3'~~
"L" 306+37.50, 24.44' RT.	"L" 306+57.50, 24.38' RT.	LOCATION GIVEN TO TOP BACK OF CURB	~~20.0'~~
"L" 307+40.81, 24.51' RT.	"L" 307+60.81, 24.47' RT.	LOCATION GIVEN TO TOP BACK OF CURB	~~20.0'~~
"L" 310+10.93, 24.36' LT.	"L" 310+67.28, 29.23' LT.	LOCATION GIVEN TO TOP BACK OF CURB	~~59.8'~~
"L" 310+10.74, 24.87' RT.	"L" 310+45.06, 25.17' RT.	LOCATION GIVEN TO TOP BACK OF CURB	~~34.0'~~
"L" 311+08.69, 30.00' LT.	"L" 312+41.72, 30.00' LT.	LOCATION GIVEN TO TOP BACK OF CURB	~~140.8'~~
"L" 312+83.64, 30.00' LT.	"S" 13+09.64, 27.16' LT.	LOCATION GIVEN TO TOP BACK OF CURB	~~717.9'~~
"S" 10+32.72, 52.98' RT.	"S" 12+48.42, 14.50' RT.	LOCATION GIVEN TO TOP BACK OF CURB	~~236.0'~~
"L" 321+38.20, 20.32' RT.	"L" 321+78.21, 20.24' RT.	LOCATION GIVEN TO TOP BACK OF CURB	~~40.0'~~
		TOTAL =	~~1,372.3'~~ 2683'

609 (7) EXPRESSWAY CURB SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"G" 10+63.00, 1.00' RT.	"G" ~~14+22.00,~~ 1.00' RT. 12+05.00	STATION AND OFFSET GIVEN TO TOP BACK OF CURB	~~358'~~ 145.75'
"G" 10+63.00, 1.00' LT.	"G" ~~14+22.00,~~ 1.00' LT. 12+05.00	STATION AND OFFSET GIVEN TO TOP BACK OF CURB	~~369'~~ 146.75'
		TOTAL =	~~718'~~ 292.5'

614 (1) CONCRETE BARRIER SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"E" 136+35, 51' LT.	"E" ~~153+33,~~ 153+44, 51' LT.	42" HIGH PRECAST BARRIER	~~1,698'~~ 1709'
		TOTAL =	~~1,698'~~ 1709'

614 (2) SHOULDER BARRIER SUMMARY

FROM STATION	TO STATION	LENGTH	COMMENTS
"O" 115+95.71, 4.00' LT.	"O" ~~119+83.01,~~ 119+12.5, 4.00' LT.	~~308'~~ 316.5'	DOT&PF STD. DETAIL G-46.10
	TOTAL =	~~308'~~ 316.5'	

614 (3) VEHICLE BARRIER SUMMARY

FROM STATION	TO STATION	LENGTH	COMMENTS
"O" 113+00.00, 20.00' RT.	"O" 118+16.10, 20.00' RT.	~~528.4'~~ 533.0'	TOP OF WALL "F"
"O" 120+98.76, 20.00' RT.	"O" 121+49.67, 20.00' RT.	~~51.9'~~	TOP OF WALL "D"
"O" 122+09.16, 20.00' RT.	"O" 130+72.49, 20.00' RT.	~~867.2'~~	TOP OF WALL "G"
	TOTAL =	~~1,438.9'~~ 1420'	

642 (11) ADJUST EXISTING MONUMENT CASE SUMMARY

STATION	MONUMENT	CASE	POINT	COMMENTS
"S" 18+91	X	X	P.T.	SUNNY DRIVE

611 (1a) & (1b) RIPRAP SUMMARY

FROM STATION	LT./ RT.	TO STATION	LT./ RT.	CLASS	TOP ELEV.
"E" 102+00	LT.	"E" 111+78	LT.	2	23.0'
"E" 107+40	RT.	"E" 111+84	RT.	1	21.0'
"E" 112+54	LT.	"E" 115+61	LT.	2	23.0'
"E" 112+54	RT.	"E" 119+44	RT.	1	21.0'
"S" 13+50	LT.	"S" 17+50	LT.	2	23.0'
"S" 12+85	LT.	"S" 13+30	LT.	2	22.0'

507 (6) SAFETY RAIL SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"E" 115+49.91, 107.34' LT.	"E" 126+03.81, 122.05' LT.	TOP OF WALL "A"	~~1,887'~~
"E" 135+00.00, 73.96' LT.	"E" 138+00.00, 69.14' LT.	TOP OF WALL "C"	~~288'~~
"E" 128+55.57, 121.28' RT.	"E" 128+91.29, 81.53' RT.	TOP OF WALL "D"	~~54'~~
"E" 129+44.36, 81.17' RT.	"E" 128+46.56, 117.51' LT.	TOP OF WALL "D"	~~278'~~
"E" 126+16.09, 83.28' RT.	"E" 126+52.34, 111.79' RT.	TOP OF WALL "F"	~~47'~~
"E" 130+26.17, 114.15' LT.	"E" 129+96.82, 81.18' RT.	TOP OF WALL "G"	~~212'~~
		TOTAL =	~~1,899'~~ 1907'

625 (1) PIPE HAND RAIL SUMMARY

FROM STATION	TO STATION	COMMENTS	LENGTH
"L" 310+06.17, 33.15' RT.	"L" 310+49.71, 33.05' RT.	EAST CREEK INLET	43'
"L" 310+08.98, 33.34' LT.	"L" 310+46.52, 33.41' LT.	EAST CREEK OUTLET	38'
"L" 316+44.08, 27.89' LT.	"L" 316+77.94, 28.21' LT.	WEST CREEK OUTLET	34'
		TOTAL =	115'.6'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE ____ Date 10/14/16

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A:\2005\051453\Design Drawings\D-ESTIMATES & SUMMARIES.dwg PLOT: August 04, 2006 at: 1:40pm

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Summary Sheet

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Summary Sheet

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
D4	**269**

SIGNAL CABINET SUMMARY

NO.	STATION	OFFSET	REMARKS
1	"G" 10+40	83' LT.	

SIGNAL JUNCTION BOX SUMMARY

NO.	STATION	OFFSET	TYPE	REMARKS
1	"G" 9+75	34' RT.	II	
2	"G" 9+74	69' LT.	II	
3	"G" 10+40	69' LT.	III	
4	"G" 10+44	59' LT.	III	
5	"G" 10+43	51' RT.	II	
6	"L" 304+80	28' RT.	1A	
7	"L" 304+20	28' RT.	1A	
8	"L" 309+7	27' LT.	1A	
9	"L" 309+77	27' LT.	1A	

JUNCTION BOX NOTES:

1. SEE SHEET Q8 FOR AUTOMATIC TRAFFIC RECORDER (ATR) SUMMARIES
2. SEE SHEET R21 FOR ILLUMINATION SUMMARIES

SIGNAL POLE SUMMARY

POLE No.	STATION	OFFSET	MAST ARM LENGTH	REMARKS
1	"G" 9+67	44' RT.	37'	
2	"G" 9+67	47' LT.	43' & 49'	TWO MAST ARMS, COMBINATION POLE
3	"G" 10+50	52' LT.	-	TYPE A FOUNDATION, POST MOUNT WITH BREAKAWAY BOLTS
4	"G" 10+45	44' RT.	-	TYPE A FOUNDATION, POST MOUNT WITH BREAKAWAY BOLTS

SIGNAL LUMINAIRE SUMMARY

LUMINAIRE NO.	LOCATION	MAST ARM	MOUNTING HEIGHT	REMARKS
L1000	SIGNAL POLE 1	15'	35'	250 WATT, HPS, MEDIUM CUT OFF TYPE III

SIGNAL HEAD SUMMARY

SIGNAL HEAD NO.	POLE	PHASE	ARRANGEMENT	LENS SIZE	MOUNTING TYPE	FACING	REMARKS
21	1	2	R Y G	12"	S-2	WB	MUTCD CONFIG "A"
22	1	2	R Y G	12"	AB-0016	WB	MUTCD CONFIG "A"
31	2	3	LR LY LG	12"	AB-0016	NB	MUTCD CONFIG "C"
32	1	3	LR LY LG	12"	S-2	NB	MUTCD CONFIG "C"
38	2	8	PED. SYMBOL		CLAMSHELL MOUNT	NB	PED. COUNTDOWN UNIT
39	3	8	PED. SYMBOL		CLAMSHELL MOUNT	SB	PED. COUNTDOWN UNIT
51	1	5	R Y G LY LG	12"	AB-0109	WB	MUTCD CONFIG "O"
52	4	5	R Y G LY LG	12"	T-1	WB	MUTCD CONFIG "M"
61	3	6	R Y G	12"	T-2	EB	MUTCD CONFIG "A"
62	2	6	R Y G	12"	AB-0016	EB	MUTCD CONFIG "A"
68	3	6	PED. SYMBOL		CLAMSHELL MOUNT	EB	PED. COUNTDOWN UNIT
69	4	6	PED. SYMBOL		CLAMSHELL MOUNT	WB	PED. COUNTDOWN UNIT
81	2	8	RR RY RG	12"	S-1	NB	MUTCD CONFIG "C*"
82	2	8	RR RY RG	12"	AB-0016	NB	MUTCD CONFIG "C*"
83	3	8	RR RY RG	12"	T-2	NB	MUTCD CONFIG "C*"
88	4	4	PED. SYMBOL		CLAMSHELL MOUNT	SB	PED. COUNTDOWN UNIT
89	1	4	PED. SYMBOL		CLAMSHELL MOUNT	NB	PED. COUNTDOWN UNIT

SIGNAL HEAD NOTES:

1. ALL RED, GREEN, YELLOW AND PEDESTRIAN SIGNAL HEADS SHALL BE LED TYPE HEADS.
* SIMILAR TO CONFIG C IN MUTCD FIGURE 4D-3 EXCEPT: USE RIGHT ARROW INSTEAD OF LEFT

SIGNAL LOOP DETECTOR SUMMARY

FIELD DETECTOR No.	LOOP DECTECTOR		390 CJ CONTROLLER		FUNCTION TYPE	SIZE	REMARKS
	DET. AMP. No.	CHAN. No.	CHAN. No.	PHASE			
221	1	1	Aux 2	2	Extension	6'x6'	
222	1	2	Aux 2	2	Extension	6'x6'	
223	1	3	Veh 2	2	Extension/Delay	6'x6'	223 - 225 Wired Together in Series
224	1	3	Veh 2	2	Extension/Delay	6'X6'	
225	1	3	Veh 2	2	Extension/Delay	6'x6'	
311	2	1	Veh 3	3	Presence	6'x6'	311 - 315 Wired Together in Series
312	2	1	Veh 3	3	Presence	6'x6'	
313	2	1	Veh 3	3	Presence	6'x6'	
314	2	1	Veh 3	3	Presence	6'x6'	
315	2	1	Veh 3	3	Presence	6'x6'	
511	3	1	Veh 5	5	Presence	6'x6'	511 - 515 Wired Together in Series
512	3	1	Veh 5	5	Presence	6'x6'	
513	3	1	Veh 5	5	Presence	6'x6'	
514	3	1	Veh 5	5	Presence	6'x6'	
515	3	1	Veh 5	5	Presence	6'X6'	
611	3	2	Aux 6	6	Extension	6'x6'	
612	3	3	Aux 6	6	Extension	6'x6'	
613	3	4	Veh 6	6	Extension/Delay	6'x6'	613 - 615 Wired Together in Series
614	3	4	Veh 6	6	Extension/Delay	6'x6'	
615	3	4	Veh 6	6	Extension/Delay	6'x6'	
821	2	2	Veh 8	8	Presence	6'X6'	821 - 825 Wired Together in Series
822	2	2	Veh 8	8	Presence	6'X6'	
823	2	2	Veh 8	8	Presence	6'X6'	
824	2	2	Veh 8	8	Presence	6'X6'	
825	2	2	Veh 8	8	Presence	6'X6'	

NOTES:

1. EACH LOOP SHALL HAVE ITS OWN SEPARATE LEAD-IN CABLE.
2. USE MULTI-CONDUCTOR LEAD-IN CABLE PER D.O.T. SPEC. 740-2.05-6. EACH LOOP SHALL HAVE ITS OWN SEPARATE PAIR.
3. LOOPS SHALL BE CENTERED IN LANES.
4. SEE STANDARD DRAWING T-32.10 FOR LOOP DETECTOR INSTALLATION.

PATH:
O:\Jnu\71431\TR\Signal Pole-Dets.dwg
Wed, 06/Sep/06 04:24PM djfagnant
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SCHEDULE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

SUMMARY TABLES

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
49th
Carolyn H. Morehouse
CE-10691
REGISTERED PROFESSIONAL ENGINEER
9/7/06

CHECKED BY: C. MOREHOUSE

DRAWN BY: D. STEVENS

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

SUNNY POINT
INTERSECTION
IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
D5	269

SUMMARY OF LOAD CENTER: 1

LOAD CENTER TYPE 1

LOCATION DATA: "G" 10+46, 75.00' LT.

LOAD CENTER:
POWER SOURCE: POWER POLE, "G" 10+38, 60.50' LT
PHOTOELECTRIC CONTROL: NO

SERVICE VOLTAGE 1 PHASE, 3-WIRE, 120/240 VOLTS, 60 Hz.

INTERRUPTING CAPACITY OF CIRCUIT BREAKERS-SERIES RATED 10,000 AIC
PROVIDE METER SOCKET? YES SERVICE AMPS 125A

MAIN BREAKER A: 120/240 VOLT, 2 POLE, 100 AMPHERES

CONTACTOR: 600 VOLT, 12 POLE, 30 AMPHERES

LOAD PANEL A SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
A1	TRAFFIC SIGNAL SYSTEM	5.54	50A	1
A2	FAN, LIGHT AND HEATER	1.44	20A	2
A3	SPACE	-	20A	2
A4	SPACE	-	20A	2
	TOTAL DEMAND LOAD:	6.98		

LOAD CENTER NOTES:

1. ILLUMINATION LOAD CENTER SUMMARY ON SHEET R22

SUMMARY OF LOAD CENTER: 2

LOAD CENTER TYPE 2

LOCATION DATA: "L" 146+334+37, 36' LT

LOAD CENTER:
POWER SOURCE: POWER POLE NEAREST TO ATR, "L" 334+09, 34' LT
PHOTOELECTRIC CONTROL: NO

SERVICE VOLTAGE 1 PHASE, 3-WIRE, 120/240 VOLTS, 60 Hz.

INTERRUPTING CAPACITY OF CIRCUIT BREAKERS-SERIES RATED 10,000 AIC
PROVIDE METER SOCKET? YES SERVICE AMPS 125A

MAIN BREAKER A: 120/240 VOLT, 2 POLE, 100 AMPHERES

CONTACTOR: 600 VOLT, 12 POLE, 30 AMPHERES

LOAD PANEL A SUMMARY

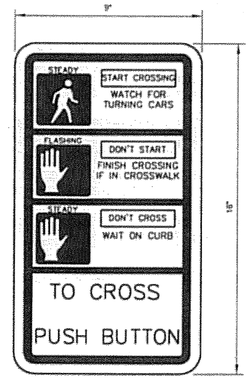
CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
A1	P. TRAFFIC RECORDER & MODEM		20A	2
A2	FAN, LIGHT AND HEATER		20A	2
A3	SPACE	-	20A	2
A4	SPACE	-	20A	2
	TOTAL DEMAND LOAD:			

TRAFFIC SIGNAL STANDARD SIGNING SCHEDULE

No.	STATION	TYPE	FACING TRAFFIC	LEGEND	SIZE WD.	SIZE HT.	AREA S.F.	REMARKS
(1)	POLE 1	R10-10G	W.B.	LEFT TURN ONLY, YIELD ON GREEN BALL	30"	36"	7.5	MOUNT ON MAST ARM
(2)	POLE 1	D3-1B	W.B.	West Lemon Valley Access Rd	90"	30	18.75	MOUNT ON MAST ARM
(3)	POLE 1	R10-4B	N.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28	ATTACH TO PED BUTTON ASSEMBLY
(4)	POLE 1	R10-3B	N.B.	MEANING OF PED. SIGNALS	9"	16"	1.00	AFFIX DECAL TO POLE
(5)	POLE 2	R3-5L	N.B.	LEFT TURN ONLY	30"	36"	7.5	MOUNT ON MAST ARM
(6)	POLE 2	R3-5R	N.B.	RIGHT TURN ONLY	30"	36"	7.5	MOUNT ON MAST ARM
(7)	POLE 2	D3-1B	N.B.	Glacier Hwy	72"	18"	9.0	MOUNT ON MAST ARM
(8)	POLE 2	R10-4B	N.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28	ATTACH TO PED BUTTON ASSEMBLY
(9)	POLE 2	R10-3B	N.B.	MEANING OF PED. SIGNALS	9"	16"	1.00	AFFIX DECAL TO POLE
(10)	POLE 2	D3-1B	E.B.	West Lemon Valley Access Rd	90"	30	18.75	MOUNT ON MAST ARM
(11)	POLE 3	R10-4B	S.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28	ATTACH TO PED BUTTON ASSEMBLY
(12)	POLE 3	R10-4B	E.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28	ATTACH TO PED BUTTON ASSEMBLY
(13)	POLE 3	R10-3B	S.B. / E.B.	MEANING OF PED. SIGNALS	9"	16"	1.00	AFFIX DECAL TO POLE
(14)	POLE 4	R10-4B	W.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28	ATTACH TO PED BUTTON ASSEMBLY
(15)	POLE 4	R10-4B	S.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28	ATTACH TO PED BUTTON ASSEMBLY
(16)	POLE 4	R10-3B	S.B. / W.B.	MEANING OF PED. SIGNALS	9"	16"	1.00	AFFIX DECAL TO POLE
				TOTAL = 74.67				

GENERAL SIGNING NOTES

1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS PER THE ENGINEER.
2. ALL SIGNS SHALL BE .125" THICK EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
3. ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
4. SEE SHEET P13 FOR OTHER SIGNS.



R10-3B

BLACK ON
NON-REFLECTORIZED WHITE
SIGN LEGEND AND GRAPHICS ARE
PROPORTIONAL TO THOSE SHOWN ABOVE

SPECIAL PEDESTRIAN DECAL

1. AFFIX DECAL ABOVE PEDESTRIAN PUSH BUTTON FRAMES.
2. INSTALL ONE DECAL PER POLE. IF TWO BUTTONS, INSTALL AT 45 DEGREES BETWEEN THE TWO.
3. DECALS SHALL BE PAID UNDER 615(1) STANDARD SIGNS.

PATH:
O:\Jnu\71431\TR\Signal Pole-Data.dwg
Wed, 06/Sep/06 04:24PM djfagnant
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SCHEDULE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

SUMMARY TABLES

DESIGNED BY: D. FAGNANT

STATE OF ALASKA 49th
Carolyn R. Morehouse
CE-10691
REGISTERED PROFESSIONAL ENGINEER
9/7/06

CHECKED BY: C. MOREHOUSE
DRAWN BY: D. STEVENS

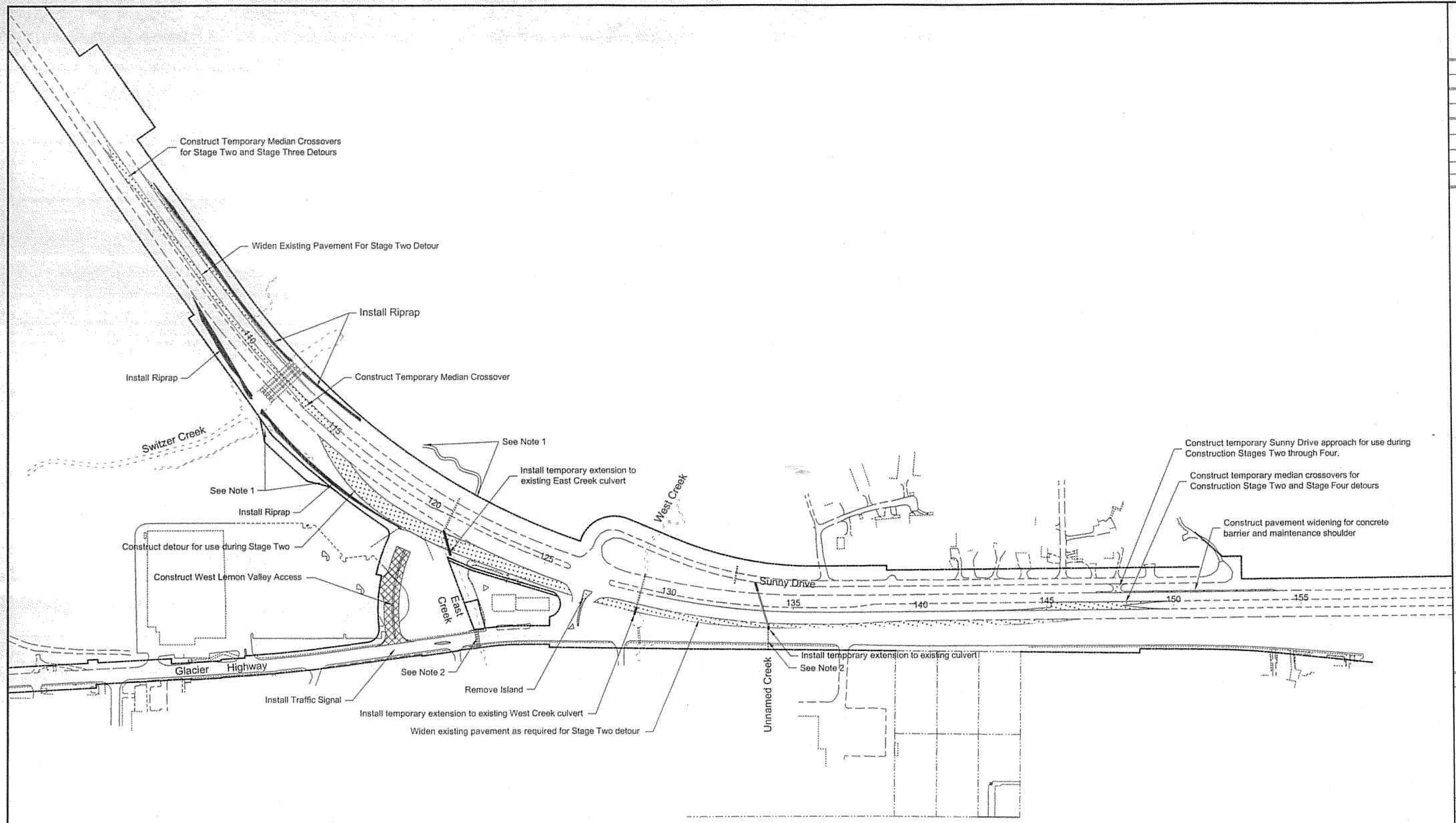
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SUNNY POINT INTERSECTION IMPROVEMENTS

SUMMARY TABLES

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
D6	269



LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage

NOTES

1. Realign stream channels outside of fill limits during this or other construction stages in conformance with environmental committments.
2. Culvert replacements on Glacier Highway to be constructed during Stage 1 or Stage 5.

GRAPHIC SCALE (Feet)
0 200 400 800

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

CONSTRUCTION STAGE ONE
CONSTRUCTION SEQUENCING

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/28/06

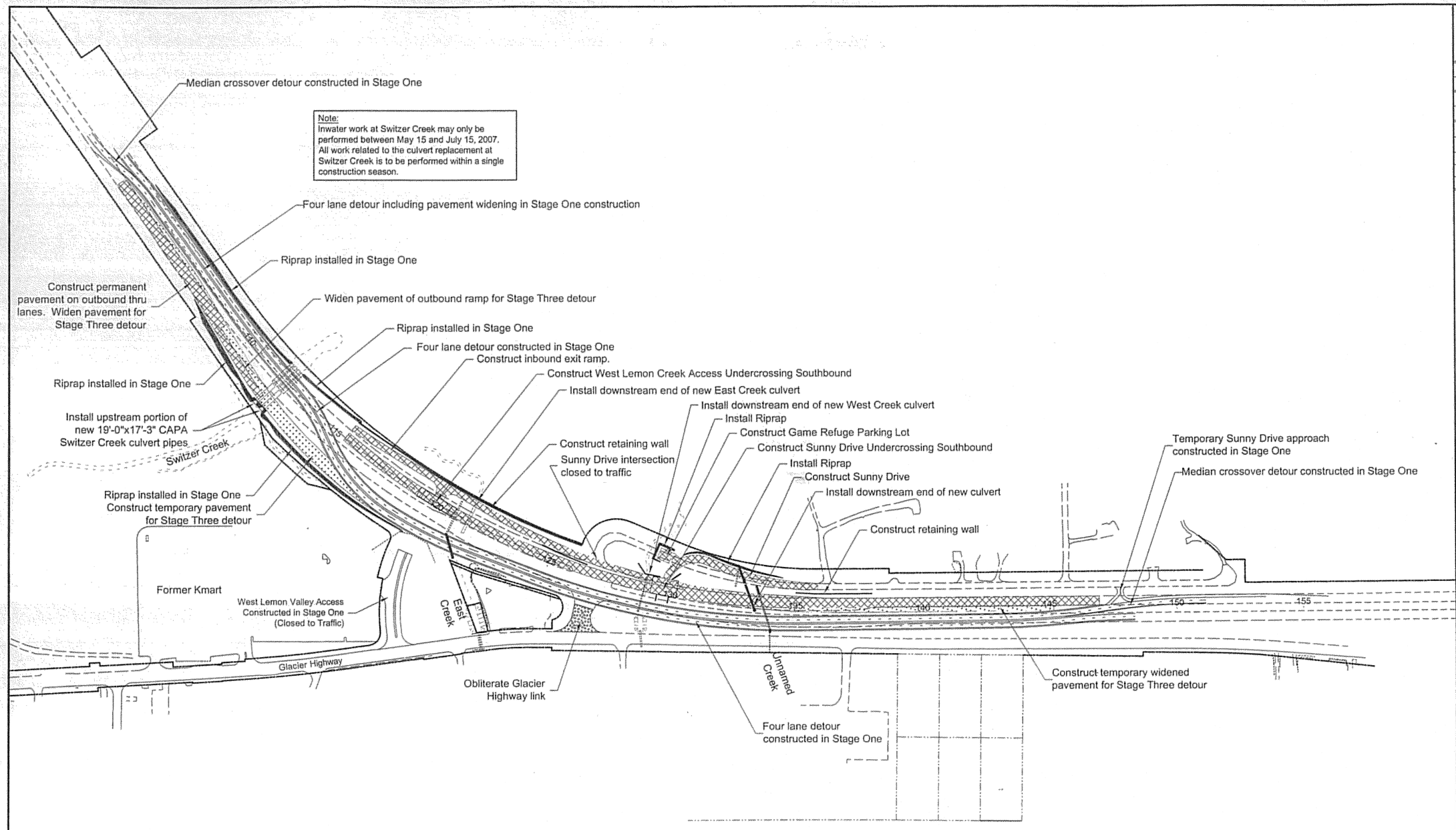
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DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

CONSTRUCTION STAGE ONE
CONSTRUCTION SEQUENCING

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E1	269



ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

CONSTRUCTION STAGE TWO CONSTRUCTION SEQUENCING

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/28/06

CHECKED BY:

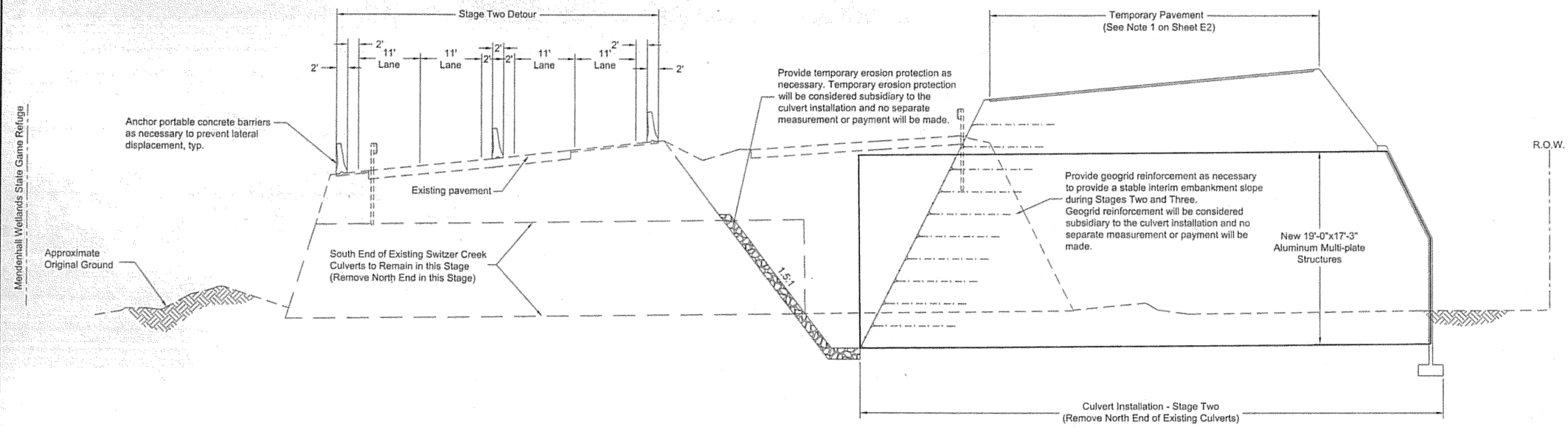
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

CONSTRUCTION STAGE TWO CONSTRUCTION SEQUENCING

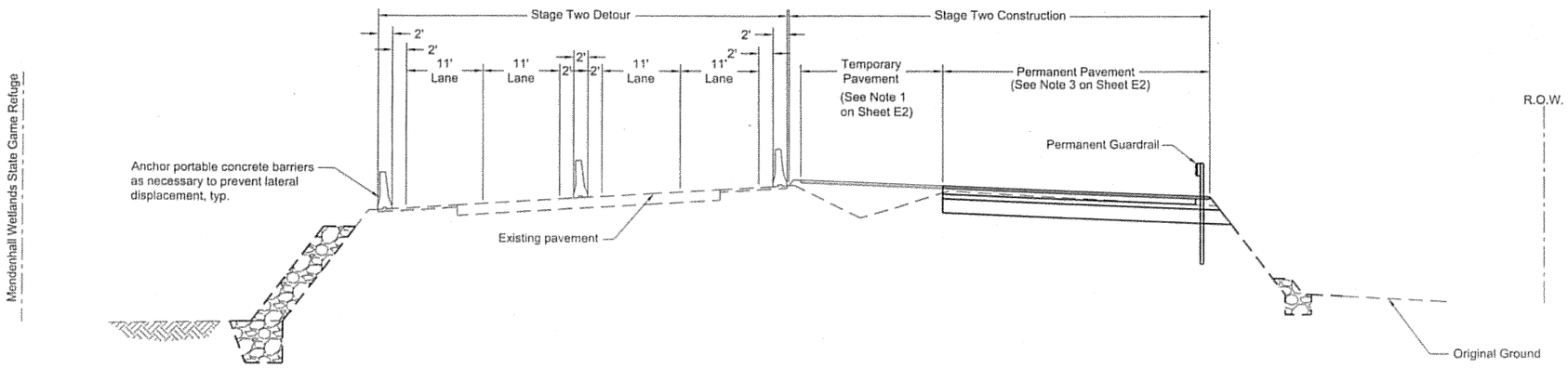
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E10	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE TWO)
"E"111+80 to "E"112+50

LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
– – – –	– – – –	Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE TWO)
"E"100+00 TO "E"111+80

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/25/06

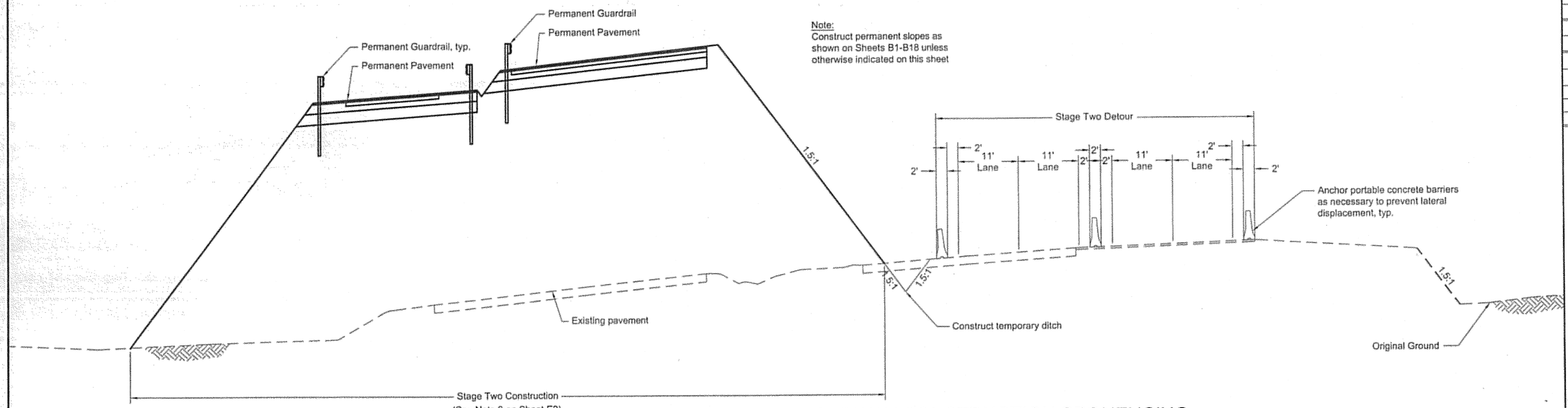
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE TWO

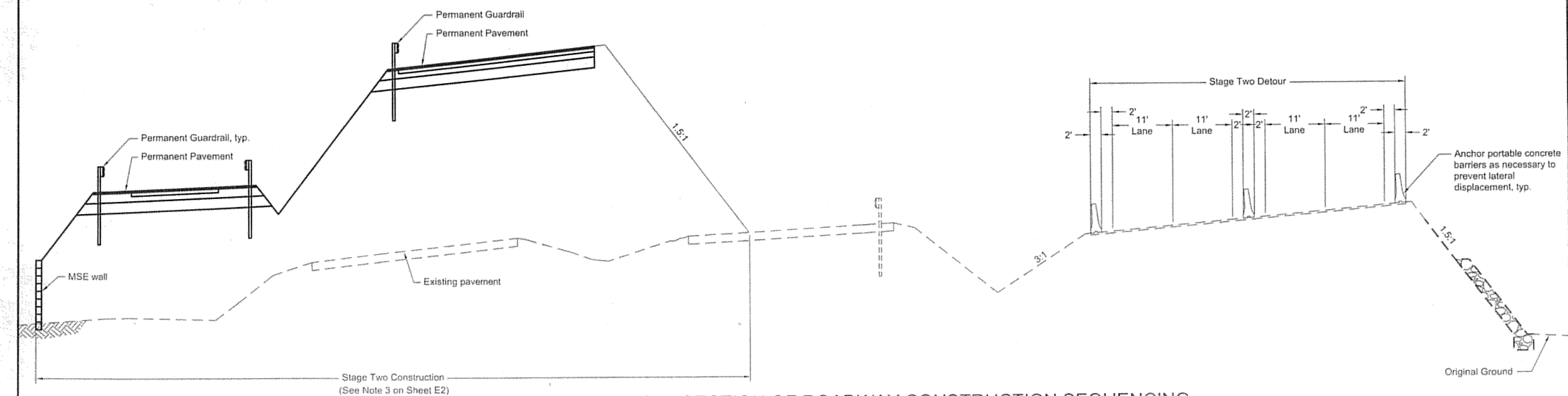
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E11	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE TWO)
"E"122+50 TO "E"129+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
- - - - -	- - - - -	Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE TWO)
"E"112+50 to "E"122+50

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/25/06

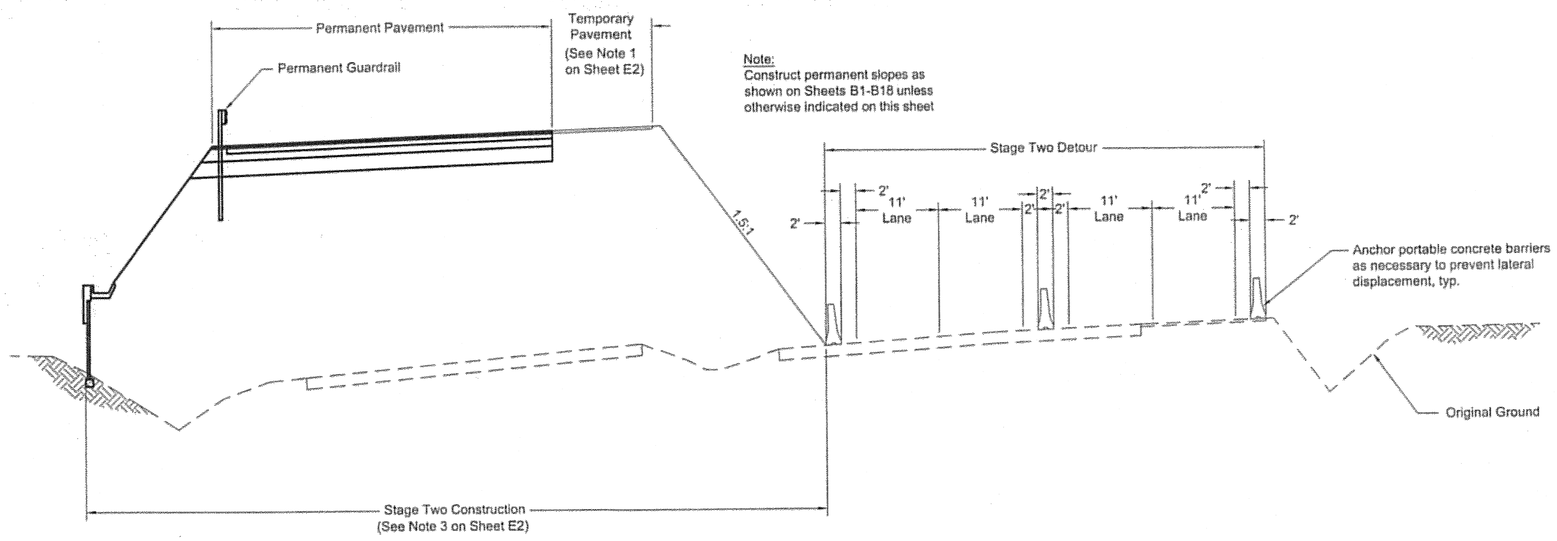
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E12	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE TWO)
"E"129+00 to "E"140+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
_____	_____	Construction this stage
_ _ _ _ _ _	_ _ _ _ _ _	Existing at start of this stage

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER
-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

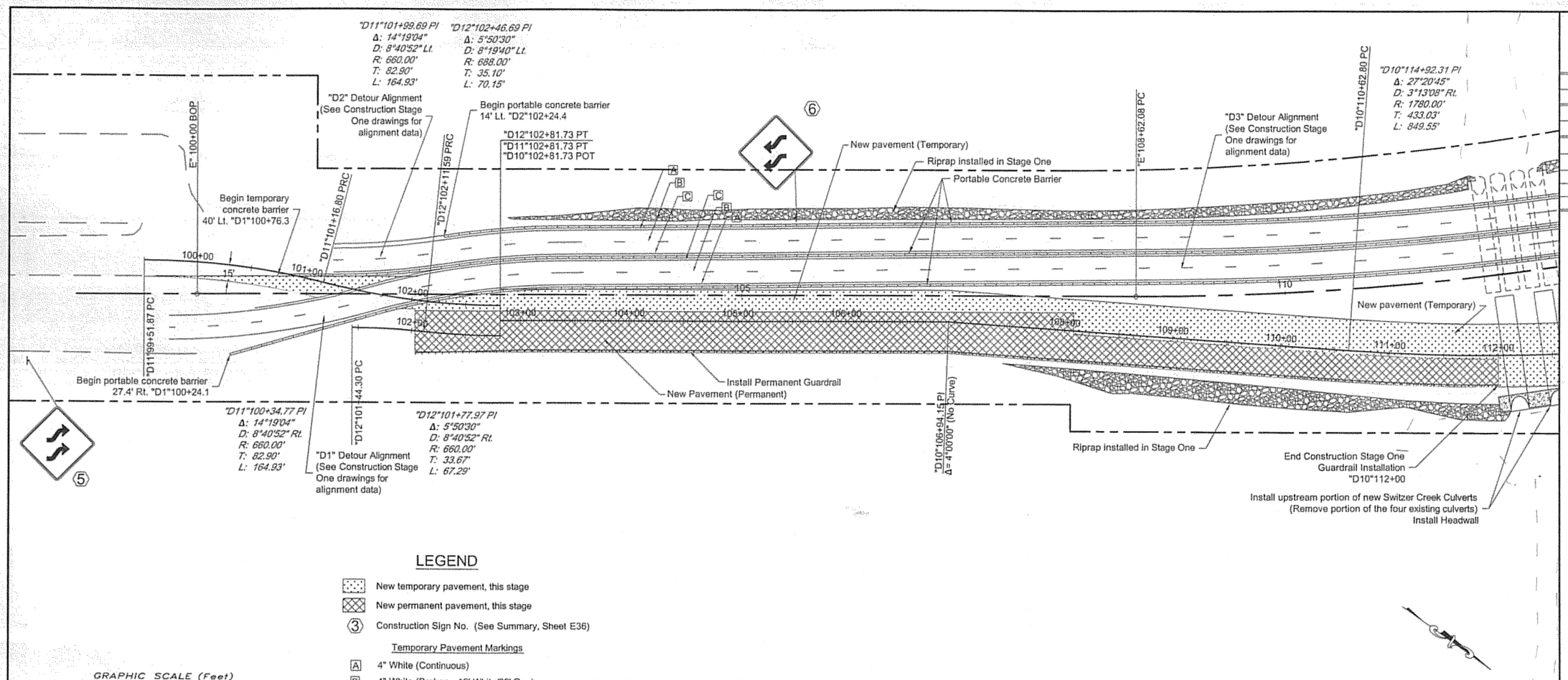
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E13	269



LEGEND

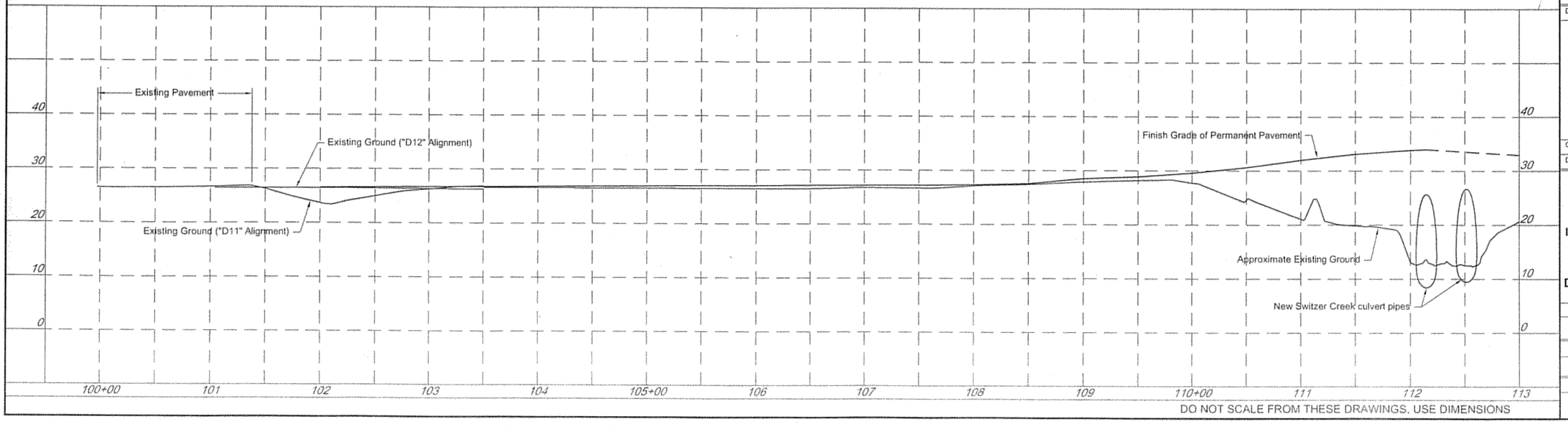
- New temporary pavement, this stage
- New permanent pavement, this stage
- ③ Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- A 4" White (Continuous)
- B 4" White (Broken - 10' White/30' Gap)
- C 4" Yellow (Continuous)

GRAPHIC SCALE (Feet)
0 50 100 200

TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE TWO)



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/25/06

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR & TRAFFIC CONTROL
CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER
71431

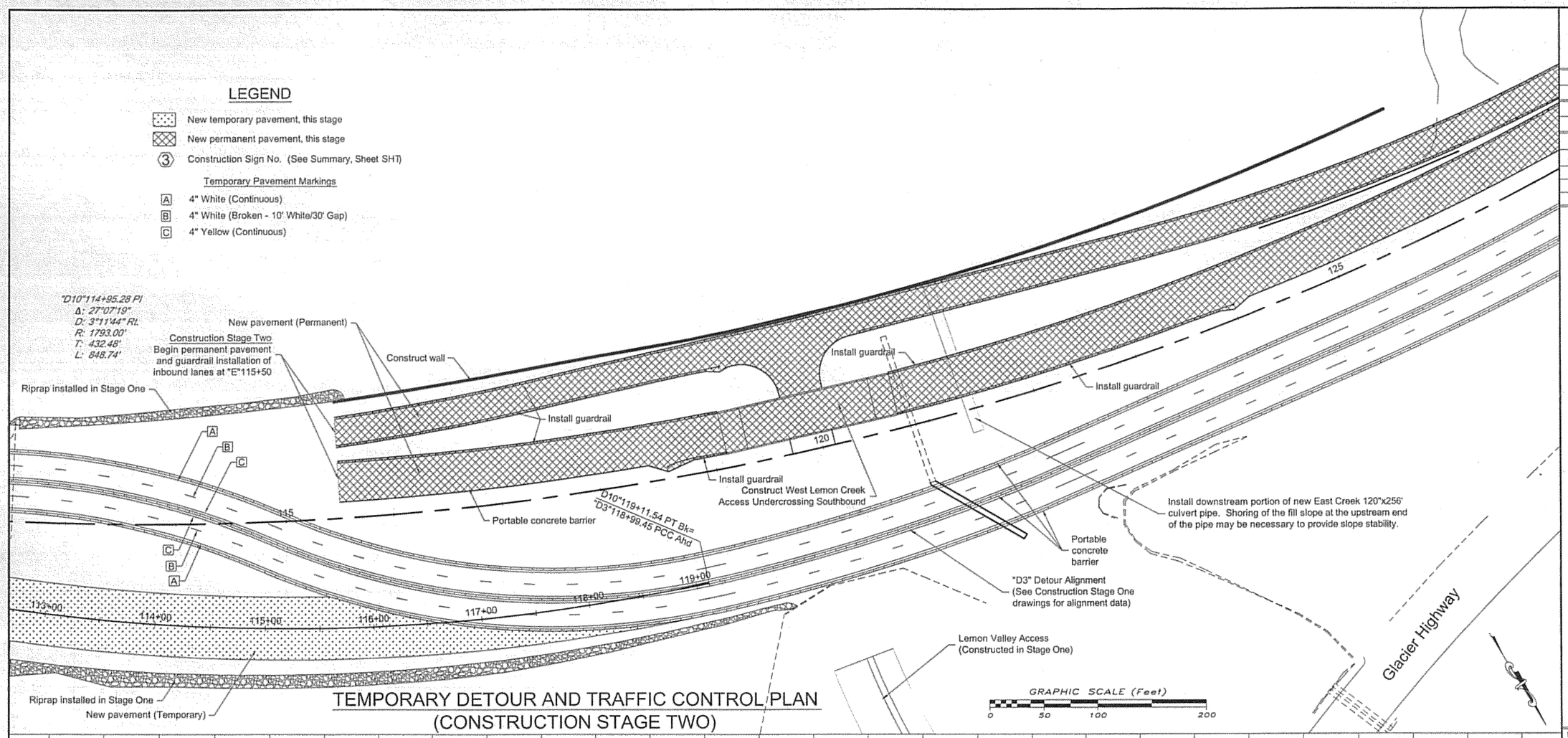
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E14	269

LEGEND

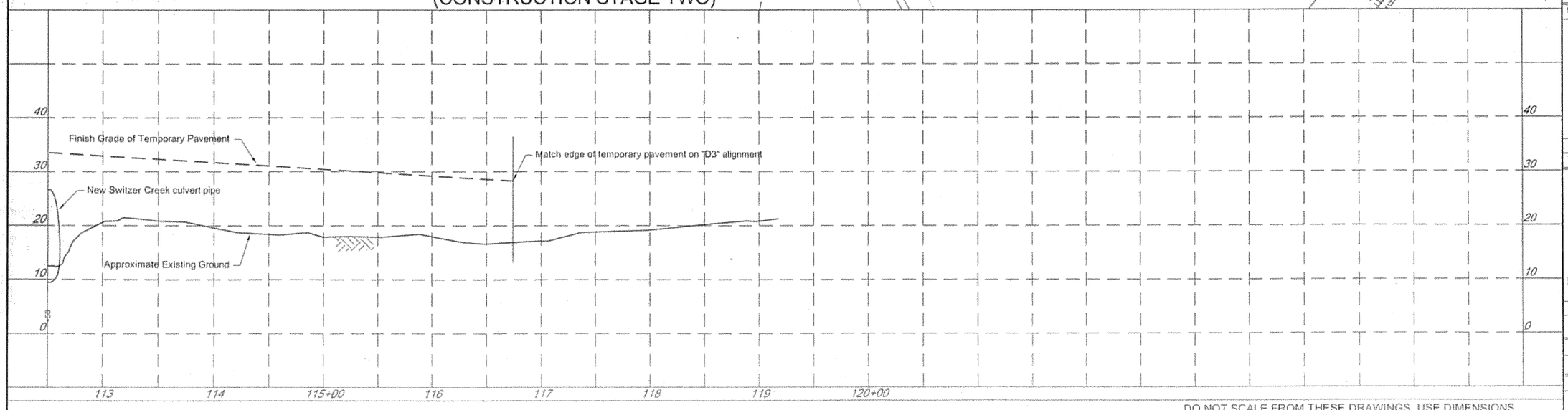
- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet SHT)

Temporary Pavement Markings

- [A] 4" White (Continuous)
- [B] 4" White (Broken - 10' White/30' Gap)
- [C] 4" Yellow (Continuous)



TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE TWO)



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/28/06

CHECKED BY:

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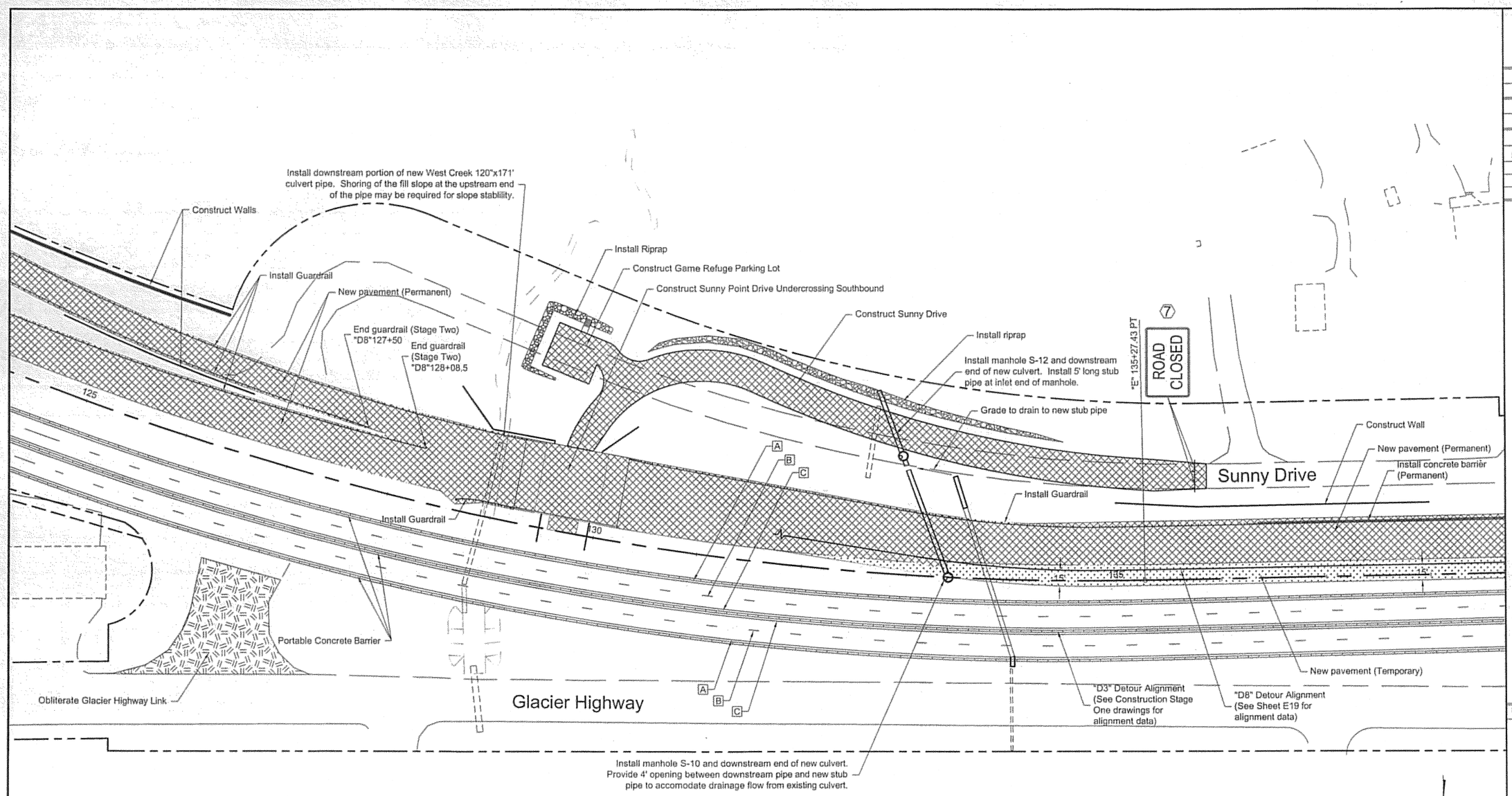
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR & TRAFFIC CONTROL CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E15	269



LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- [A] 4" White (Continuous)
- [B] 4" White (Broken - 10' White/30' Gap)
- [C] 4" Yellow (Continuous)

GRAPHIC SCALE (Feet)

0 50 100 200

TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE TWO)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 1/28/06

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

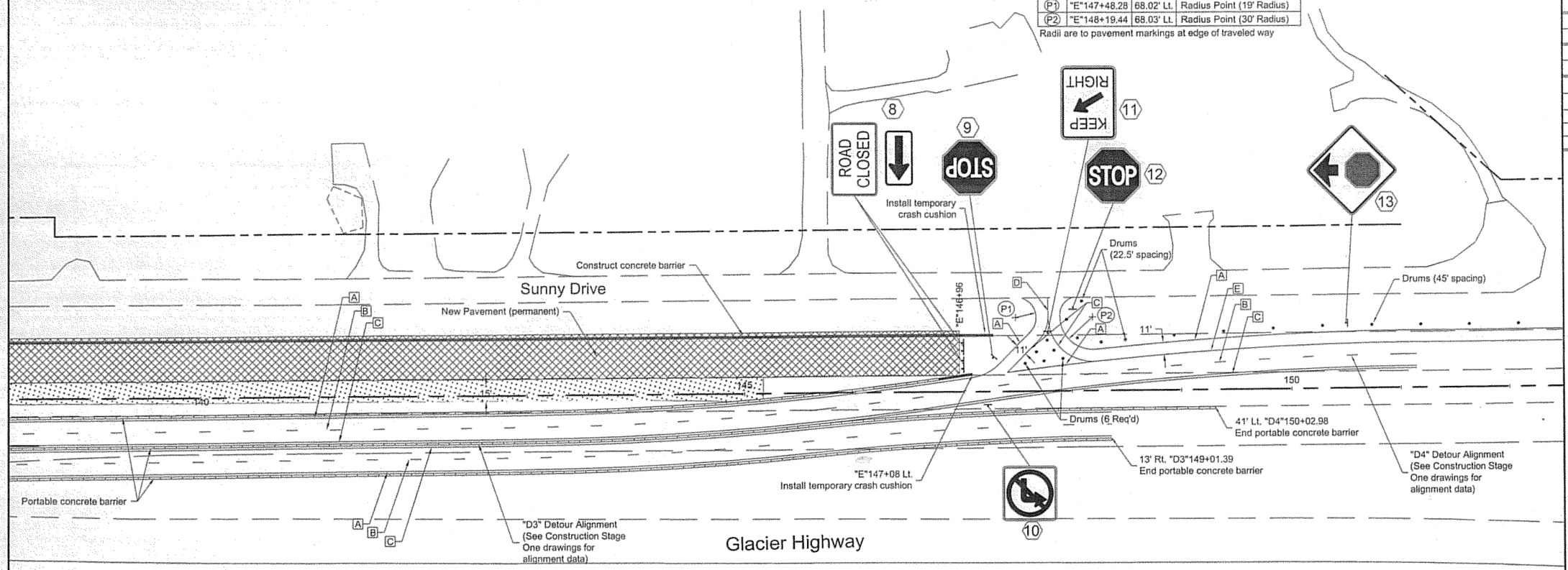
DETOUR & TRAFFIC CONTROL CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E16	269

RADIUS POINT OFFSET TABLE

Point	Station	Offset	Description
(P1)	"E"147+48.28	68.02' Lt.	Radius Point (19' Radius)
(P2)	"E"148+19.44	68.03' Lt.	Radius Point (30' Radius)

Radii are to pavement markings at edge of traveled way



LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- [A] 4" White (Continuous)
- [B] 4" White (Broken - 10' White/30' Gap)
- [C] 4" Yellow (Continuous)
- [D] Double 4" Yellow (Continuous)
- [E] 8" White (Continuous)

TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE TWO)

GRAPHIC SCALE (Feet)
0 50 100 200

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
2/28/06

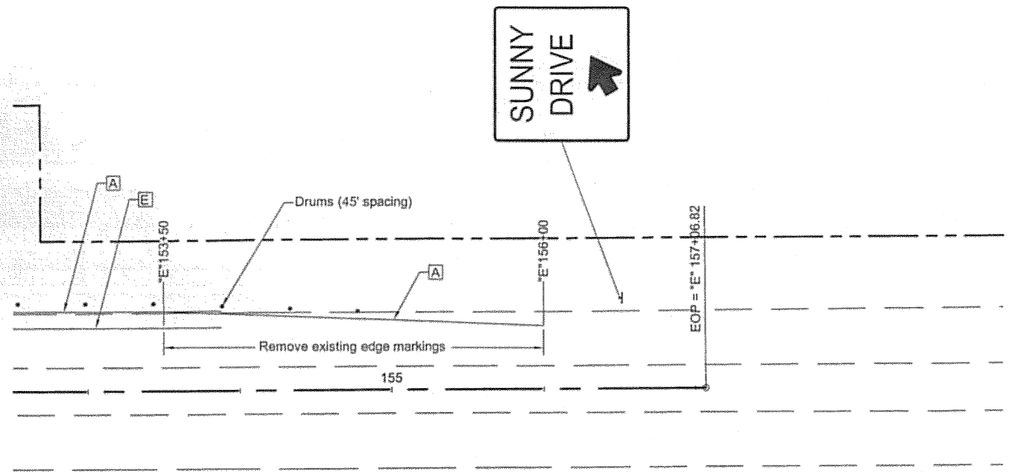
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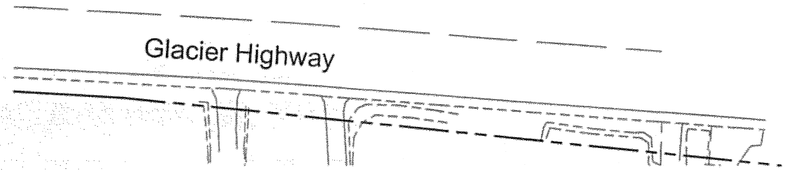
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR & TRAFFIC CONTROL
CONSTRUCTION STAGE TWO

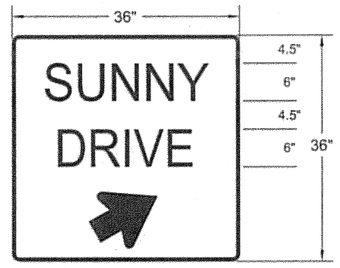
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E17	269





TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE TWO)

GRAPHIC SCALE (Feet)
0 50 100 200



Letter Series D
Legend Color: Black
Background: Orange

SPECIAL SIGN NO. 1

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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING -STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

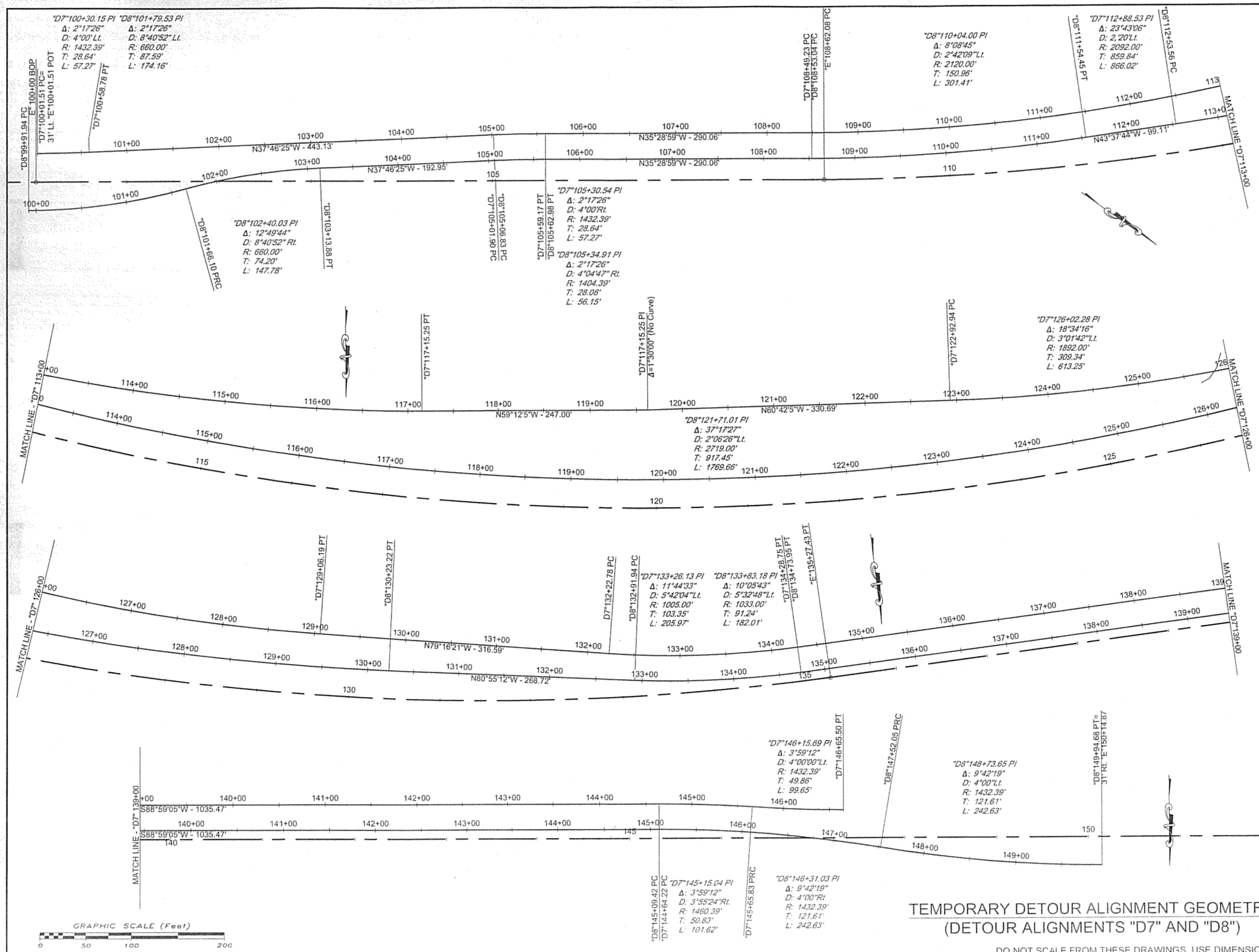
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DRAWN BY:

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DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR & TRAFFIC CONTROL
CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E18	269



TEMPORARY DETOUR ALIGNMENT GEOMETRY
(DETOUR ALIGNMENTS "D7" AND "D8")

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR ALIGNMENT GEOMETRY
CONSTRUCTION SEQUENCING - STAGE TWO

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

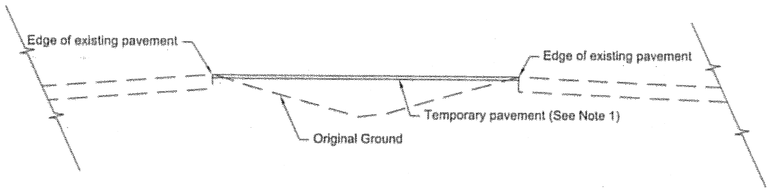
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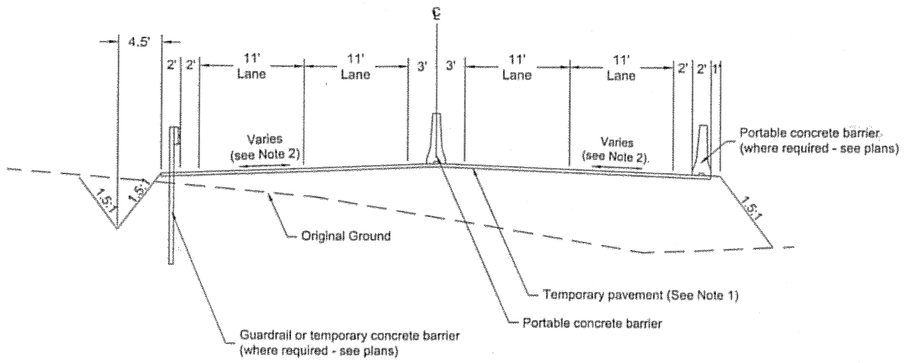
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR ALIGNMENT DATA
CONSTRUCTION STAGE TWO

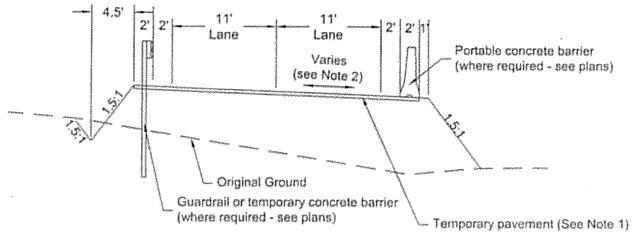
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E19	269



TYPICAL TEMPORARY MEDIAN CROSSOVER SECTION
EGAN DRIVE



TYPICAL TEMPORARY FOUR LANE DETOUR SECTION



TYPICAL TEMPORARY TWO LANE DETOUR SECTION

TYPICAL DETOUR SECTIONS - ALL CONSTRUCTION STAGES

Construction Sequencing Notes (Applicable to all Construction Stages):

1. The thickness and quality of select base and subbase materials underlying temporary pavement is to be determined by the contractor. The minimum thickness of asphalt concrete surfacing in temporary pavements shall be two inches. The contractor will be responsible for immediate repairs to distressed pavements as determined necessary by the Engineer.
2. Normal detour cross slope shall be 0.02'/ft. Where the detour section consists of a widened section of existing pavement, the cross slope of the new pavement shall match the cross slope of the existing pavement.
3. Drainage work and underground electrical work, including installation of foundations for lighting standards, that is located beneath permanent pavements shall be completed prior to the permanent paving and guardrail installation.
4. The traffic signal at the intersection of the West Lemon Valley Access with the Glacier Highway shall be installed and operational prior to opening of the West Lemon Valley Access to traffic.
5. Topsoil, seeding, and erosion control matting, as required, shall be applied to permanent fill slopes promptly upon completion of the slopes. Temporary slopes shall be stabilized from erosion by the site specific controls that are identified in the Contractor's SWPPP for the project, as approved by the Department.
6. All detours shall be designed and signed for a speed of 45 miles per hour.
7. Inwater work at Switzer Creek may only be performed between May 15 and July 15, 2007. All work related to the culvert replacement at Switzer Creek is to be performed within a single construction season.
8. Portable concrete barrier, including anchoring and deflection area requirements, shall conform to Standard Drawing G-46.10, "Precast Concrete "F" Shape Barrier".

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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL DETOUR SECTIONS
CONSTRUCTION SEQUENCING

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

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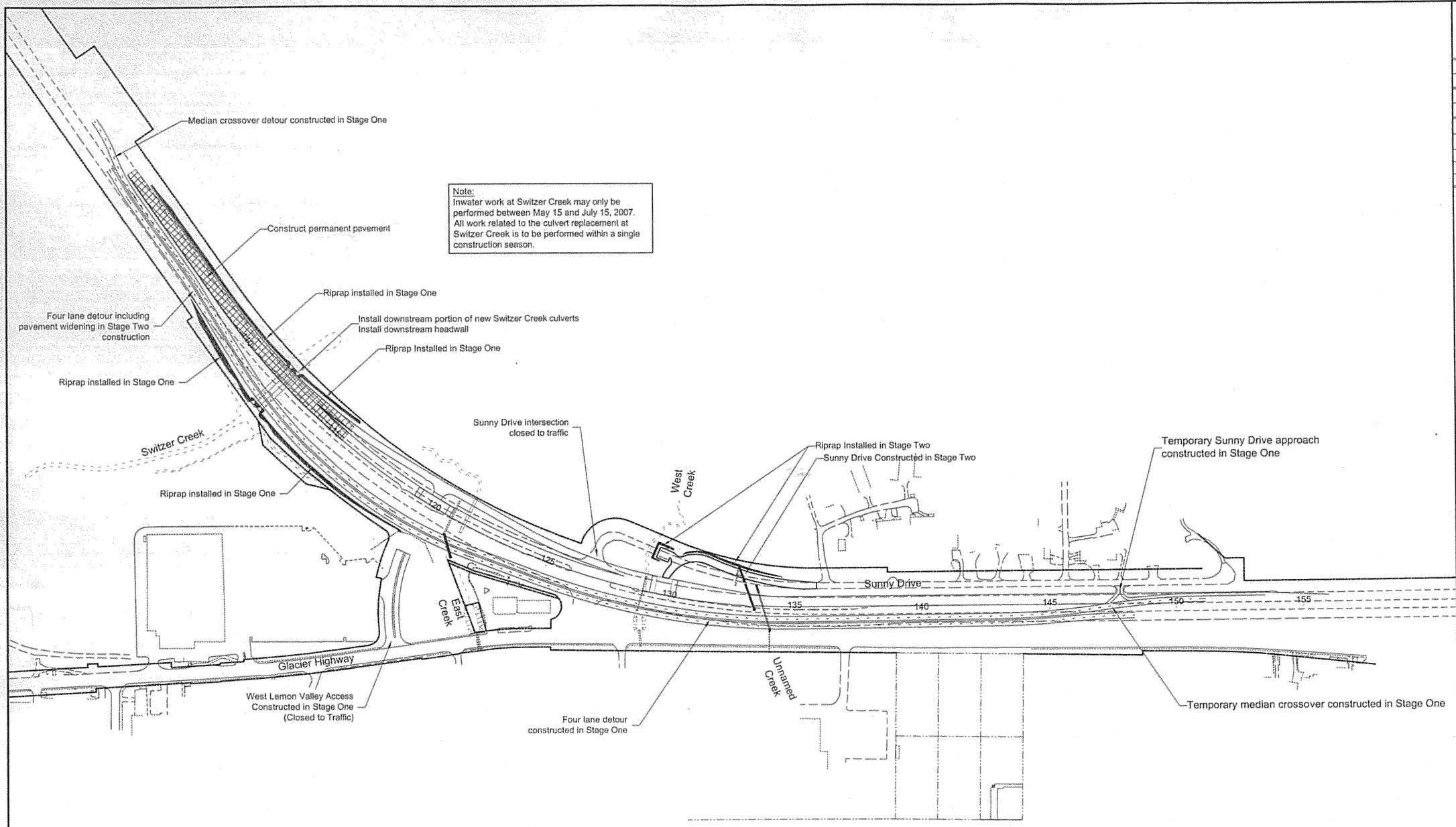
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE ONE

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E2	269



Note:
Inwater work at Switzer Creek may only be performed between May 15 and July 15, 2007. All work related to the culvert replacement at Switzer Creek is to be performed within a single construction season.

LEGEND

New temporary pavement, this stage

New permanent pavement, this stage

GRAPHIC SCALE (Feet)
0 200 400 800

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

CONSTRUCTION STAGE THREE
CONSTRUCTION SEQUENCING

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH
James H. Wellman CE-1752
7/28/06

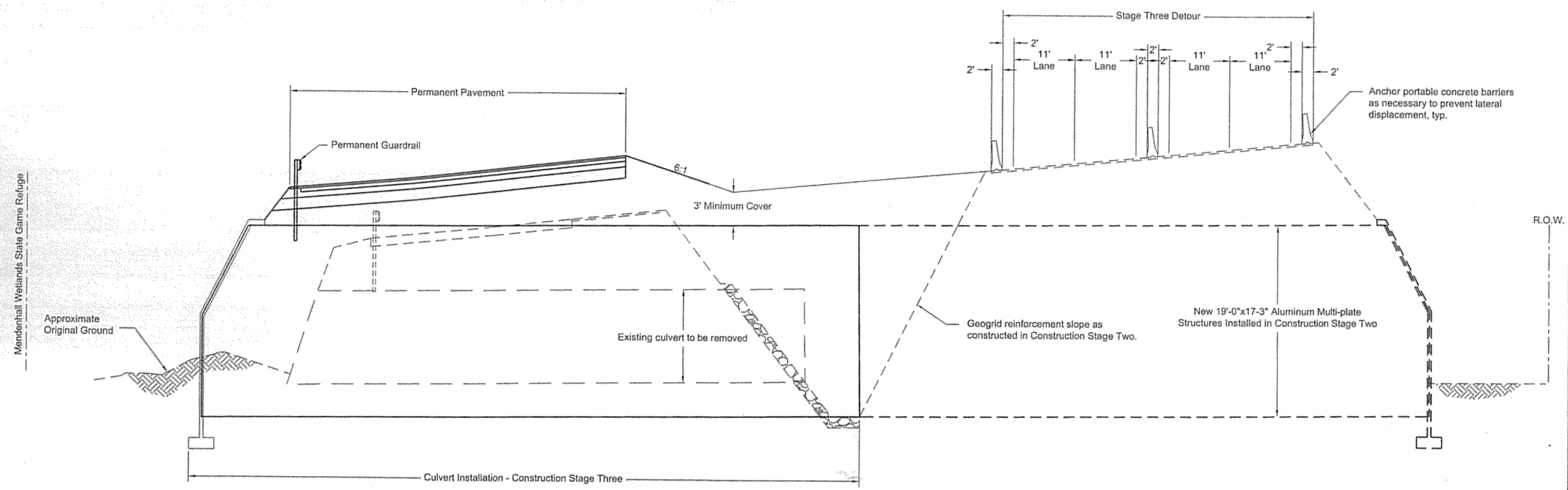
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

CONSTRUCTION STAGE THREE
CONSTRUCTION SEQUENCING

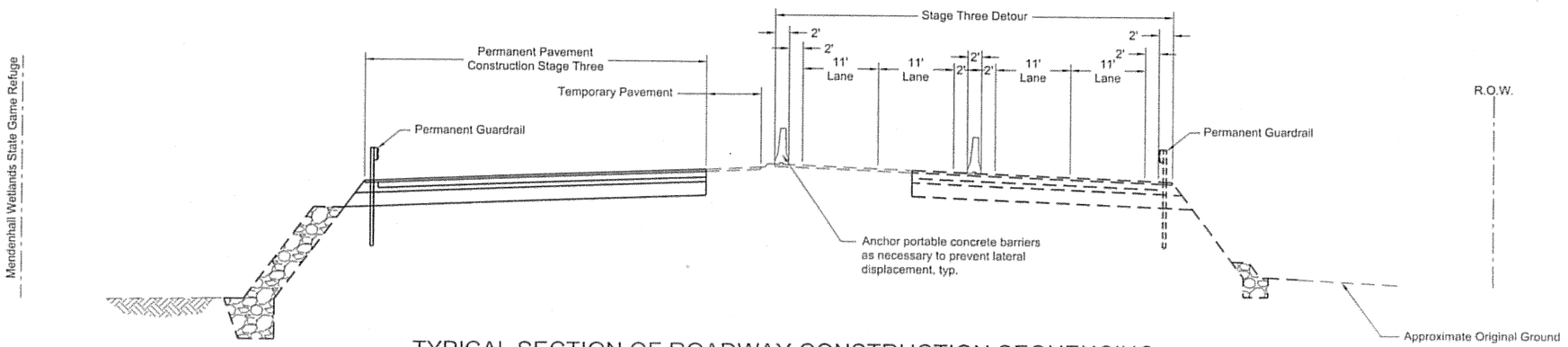
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E20	269



LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
– – – – –	– – – – –	Existing at start of this stage

TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE THREE)
"E"111+80 TO "E"112+50



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE THREE)
"E"100+00 to "E"111+80

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION STAGE THREE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/28/06

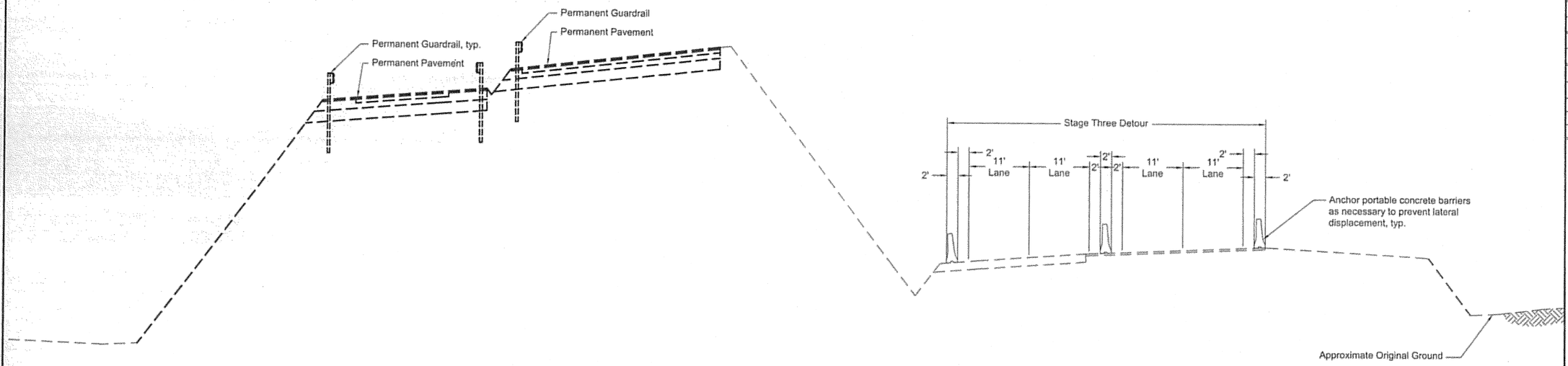
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SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION STAGE THREE

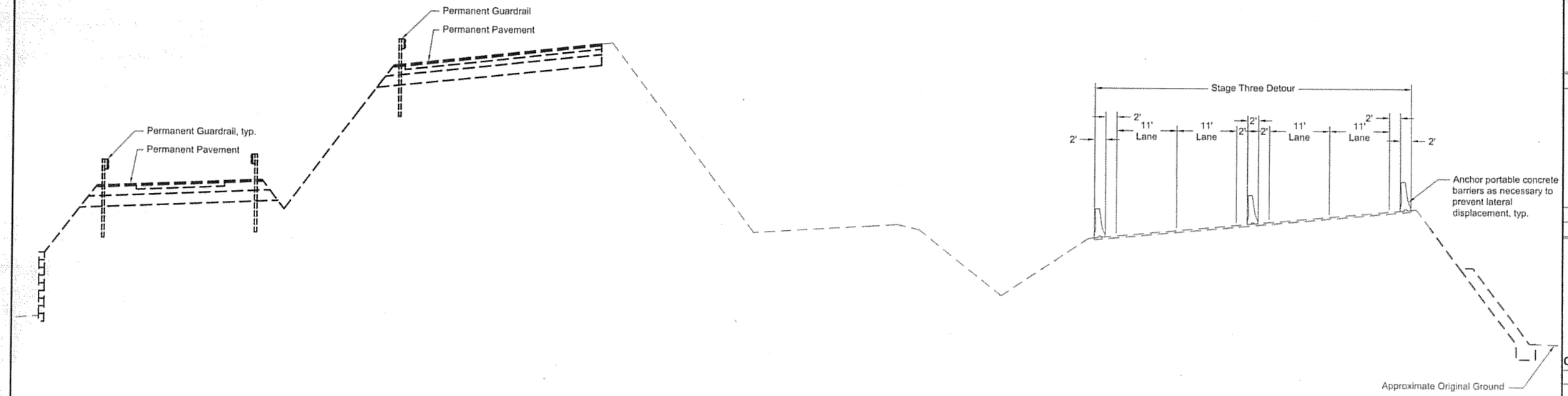
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E21	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE THREE)
"E"122+50 TO "E"129+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
- - - - -	- - - - -	Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE THREE)
"E"112+50 to "E"122+50

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION STAGE THREE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

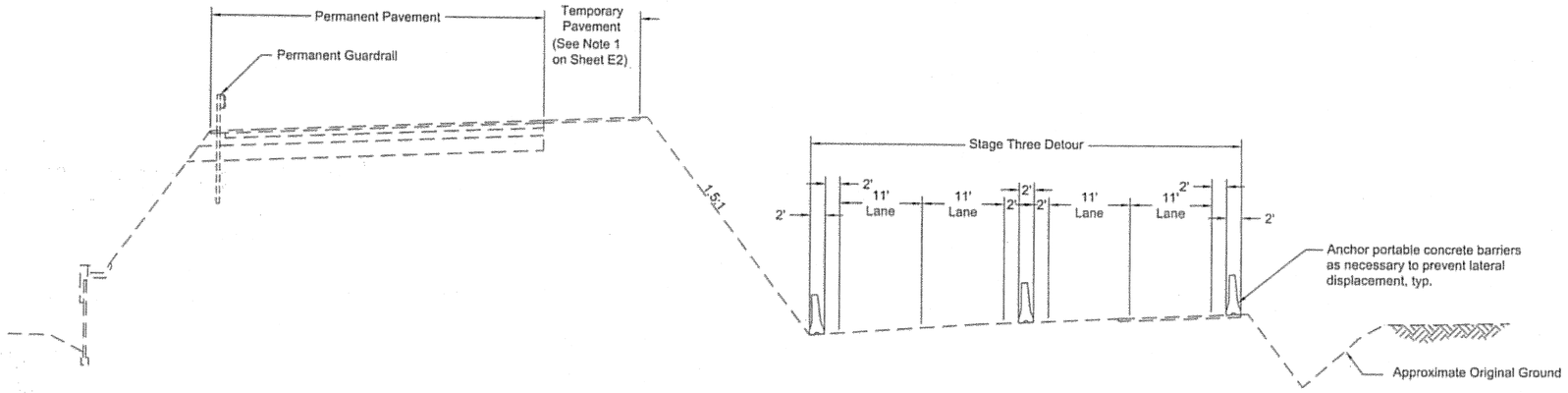
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DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE THREE

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E22	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE THREE)
"E"129+00 TO "E"140+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
		Construction this stage
		Existing at start of this stage

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION STAGE THREE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

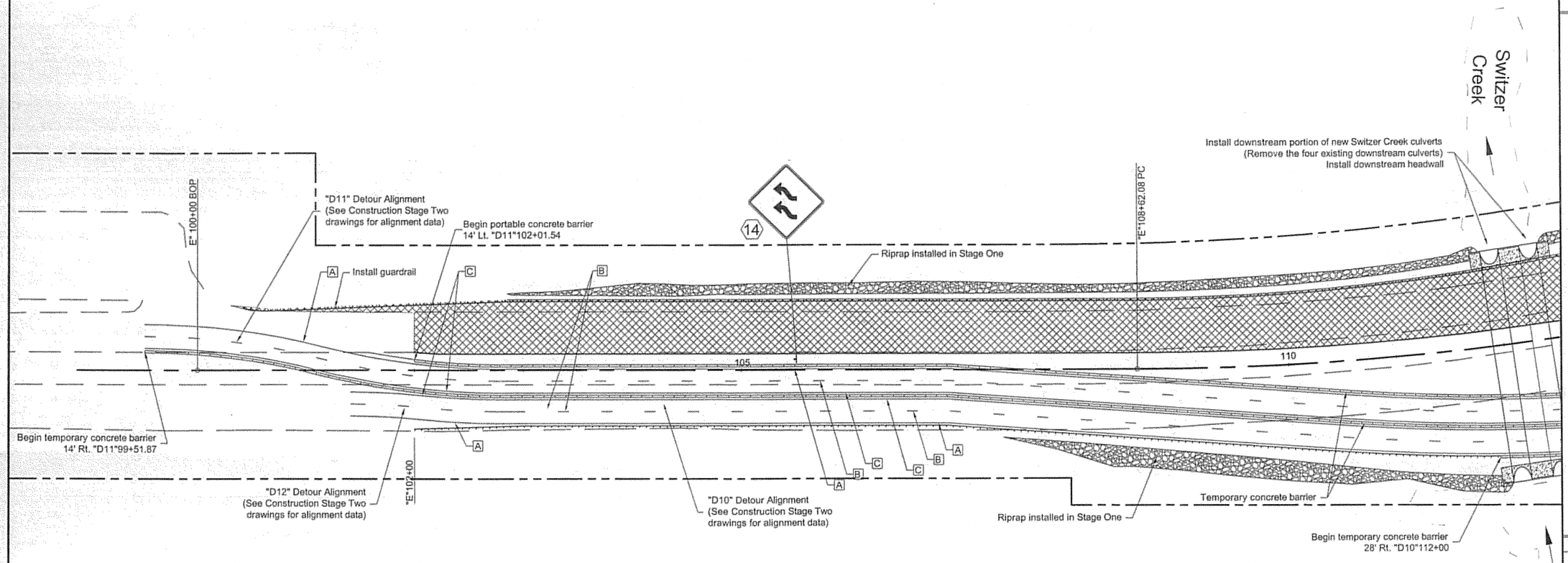
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DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE THREE

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E23	269



LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- [A] 4" White (Continuous)
- [B] 4" White (Broken - 10' White/30' Gap)
- [C] 4" Yellow (Continuous)

GRAPHIC SCALE (Feet)

0 50 100 200

TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE THREE)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN CONSTRUCTION SEQUENCING - STAGE THREE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 1/28/06

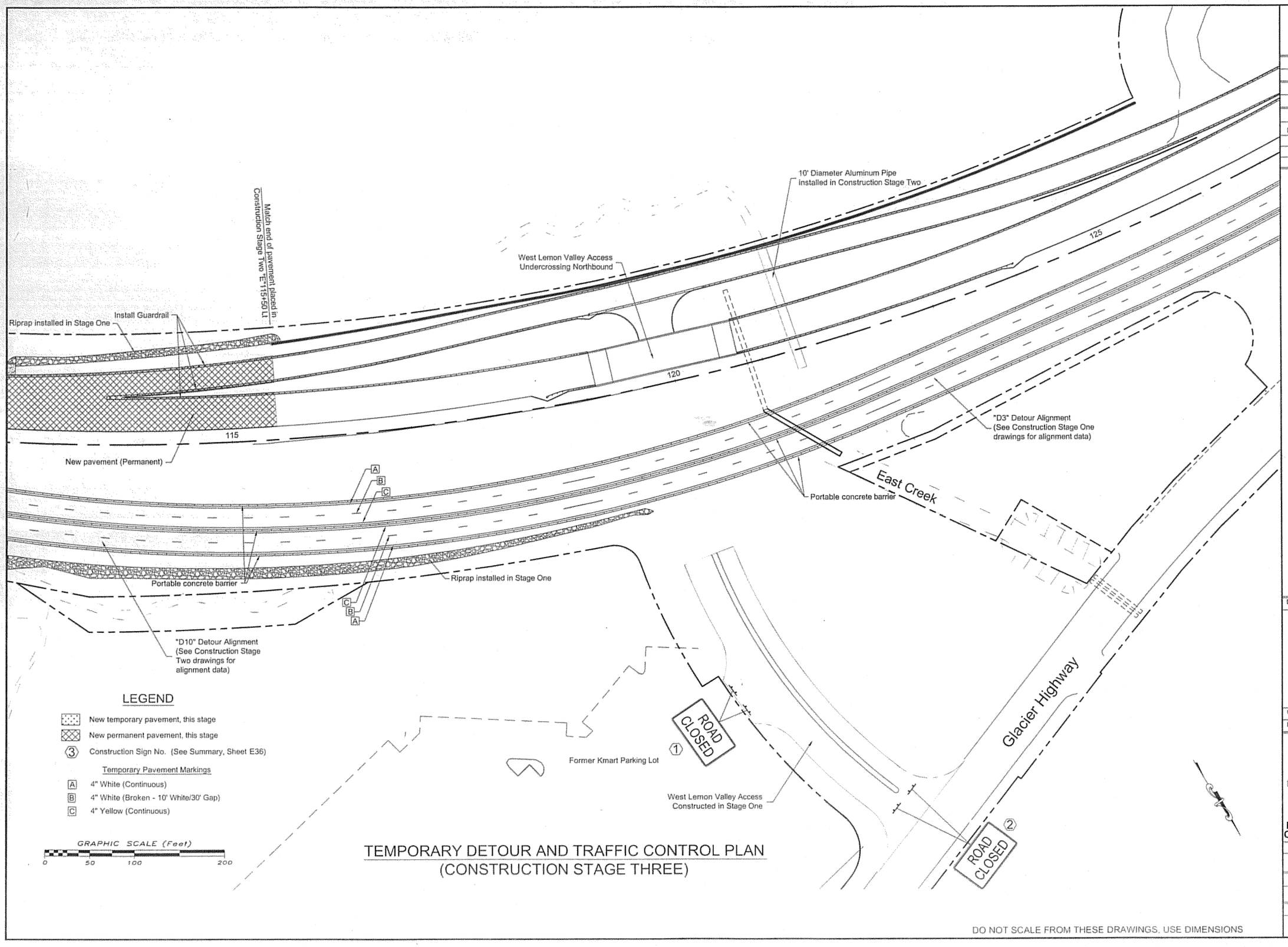
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DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

DETOUR & TRAFFIC CONTROL CONSTRUCTION STAGE TWO

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E24	269



TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE THREE)

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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING - STAGE THREE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
2/28/06

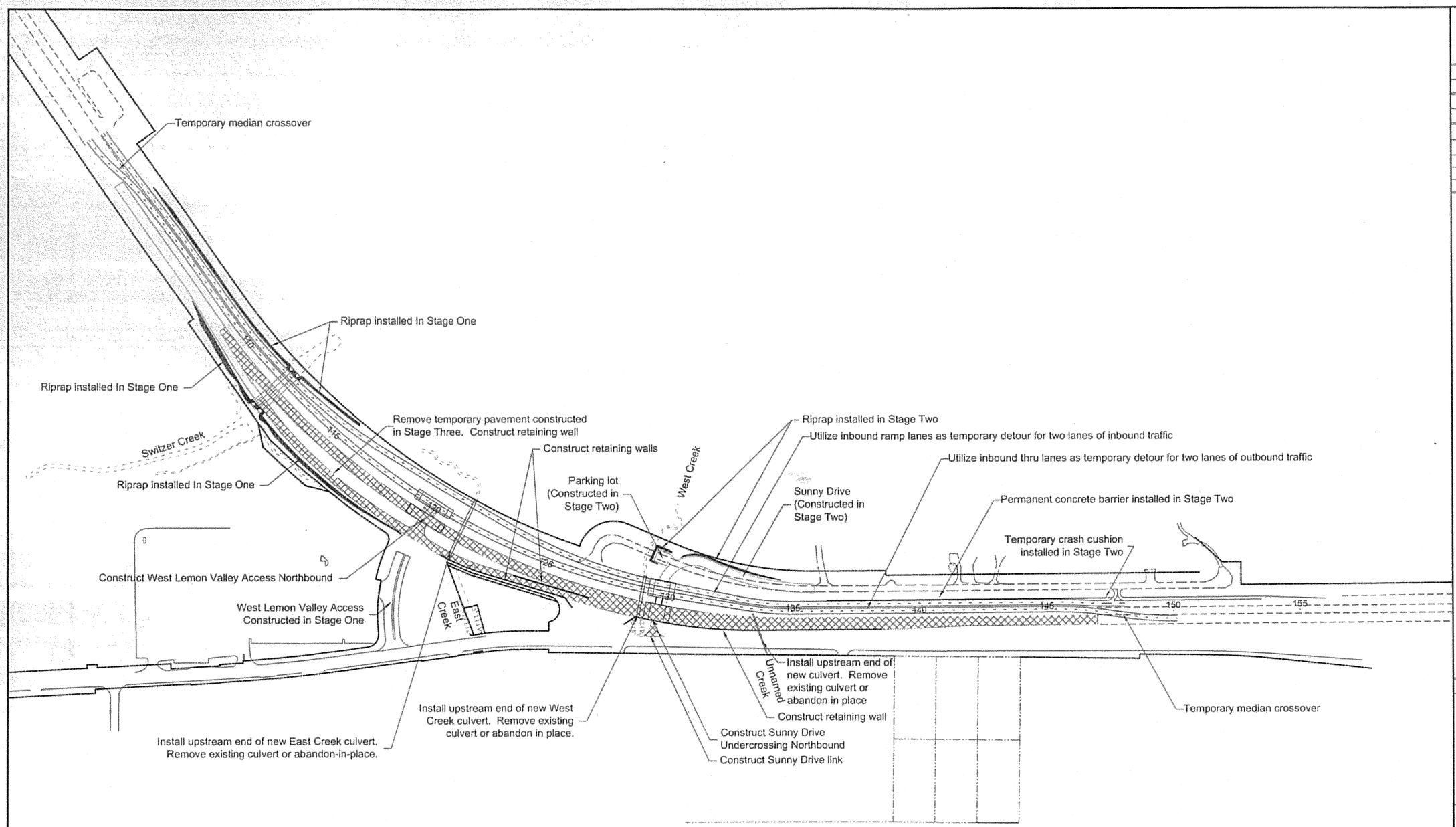
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SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR & TRAFFIC CONTROL
CONSTRUCTION STAGE THREE

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E25	269



LEGEND

New temporary pavement, this stage

New permanent pavement, this stage

GRAPHIC SCALE (Feet)

0 200 400 800

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

CONSTRUCTION STAGE FOUR CONSTRUCTION SEQUENCING

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/28/06

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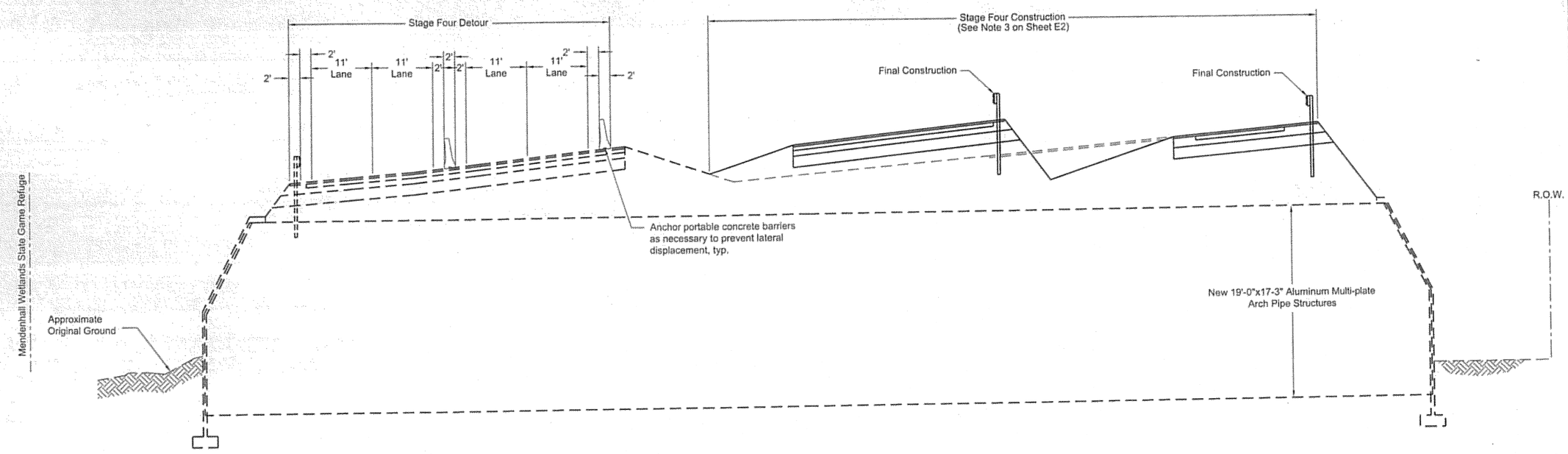
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SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

CONSTRUCTION STAGE FOUR CONSTRUCTION SEQUENCING

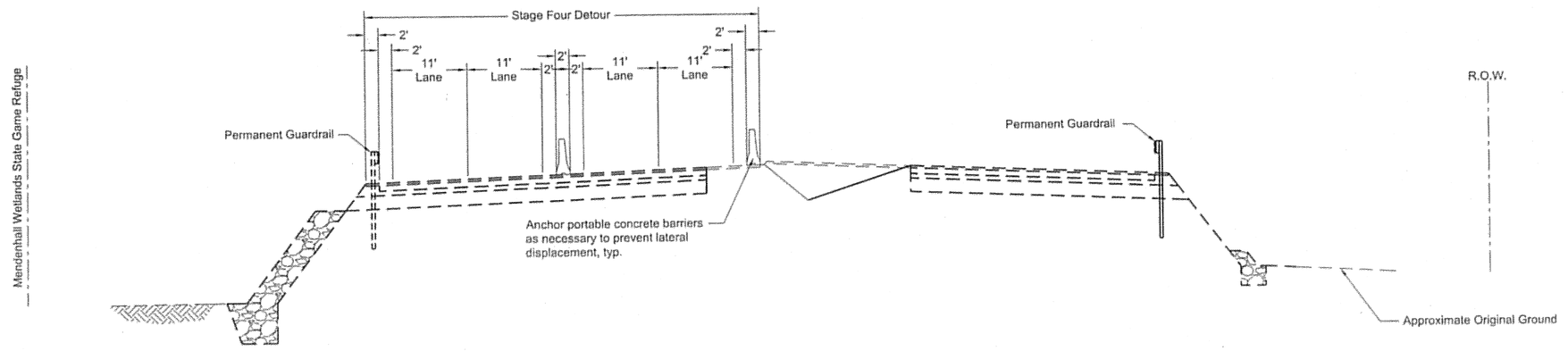
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E26	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE FOUR)
"E"111+80 TO "E"112+50

LEGEND

Temporary construction (or original ground)	Permanent construction
_____	_____ Construction this stage
- - - - - -	- - - - - - Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE FOUR)
"E"100+00 to "E"111+80

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/25/06

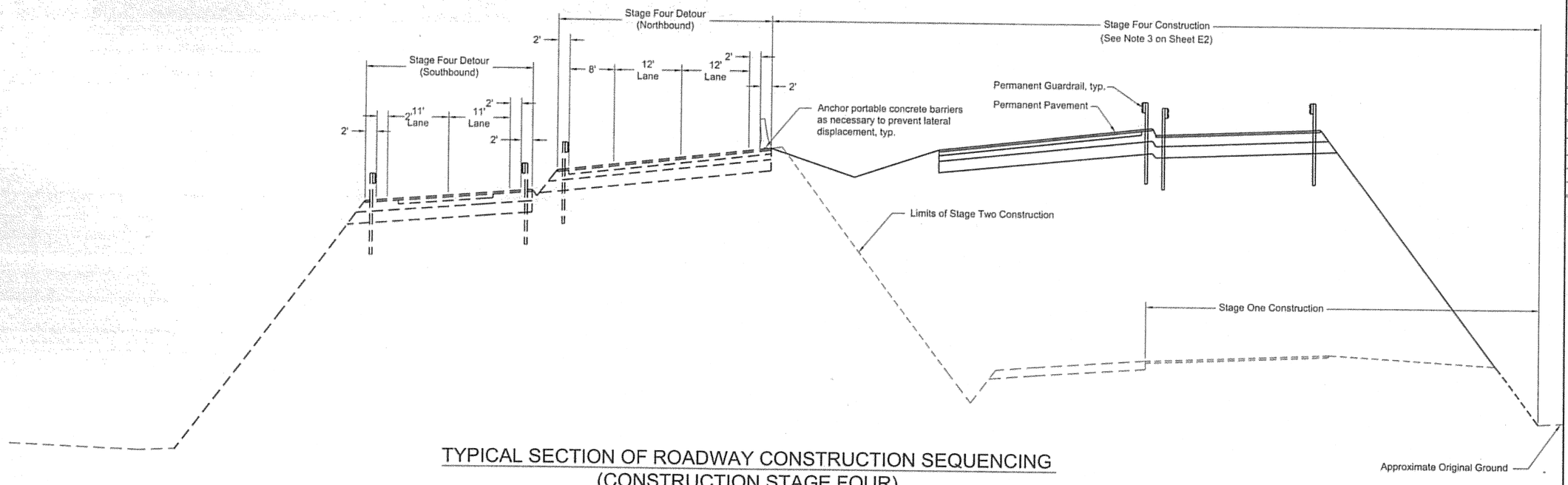
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DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE FOUR

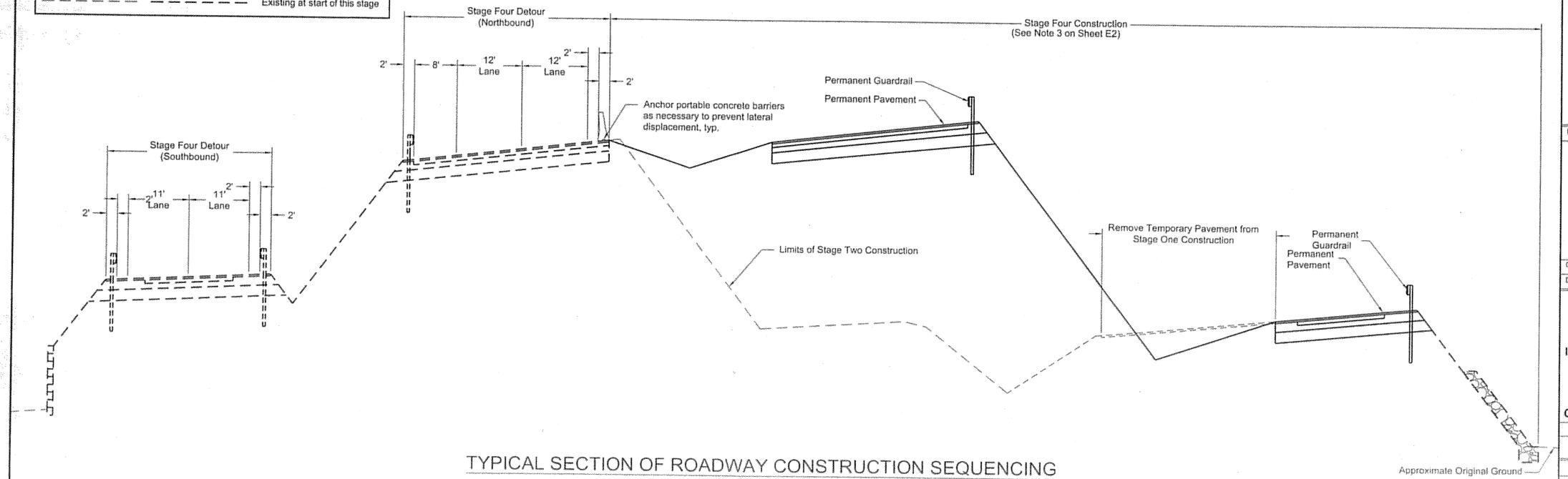
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E27	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE FOUR)
"E"122+50 TO "E"129+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
– – – –	– – – –	Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE FOUR)
"E"112+50 to "E"122+50

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-17552
REGISTERED PROFESSIONAL ENGINEER
7/28/06

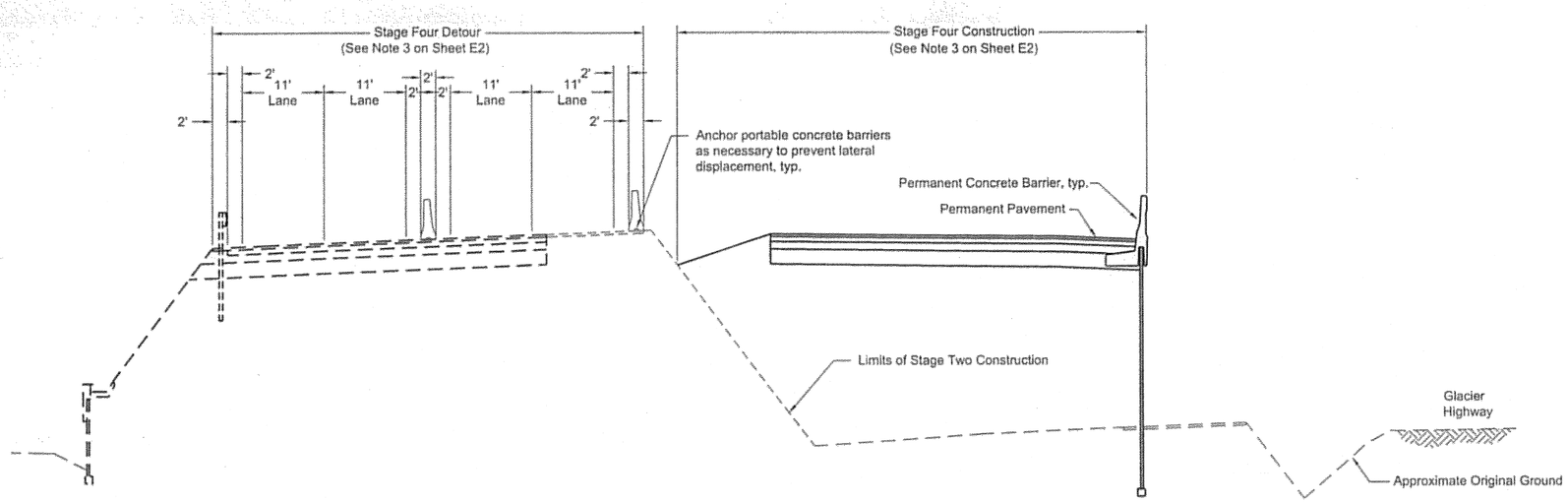
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DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE FOUR

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E28	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE FOUR)
"E"129+00 TO "E"140+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
- - - - -	- - - - -	Existing at start of this stage

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
9/28/06

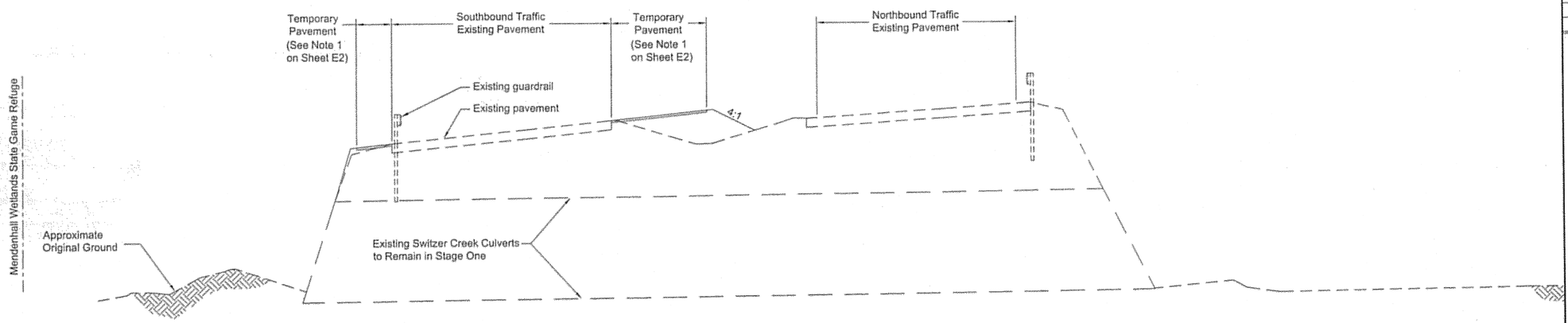
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SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE FOUR

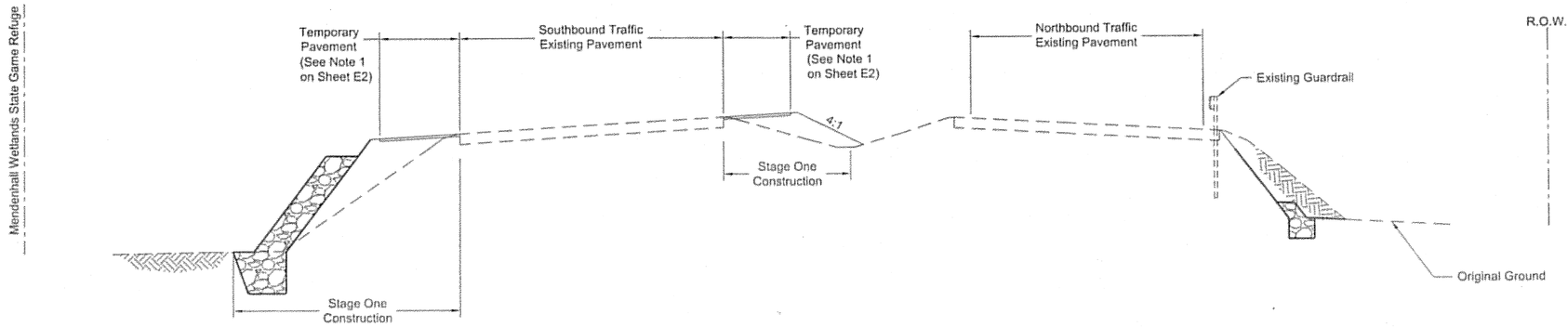
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E29	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE ONE)
"E"111+80 to "E"112+50

LEGEND

Temporary construction (or original ground)	Permanent construction	
———	———	Construction this stage
– – – – –	– – – – –	Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE ONE)
"E"100+00 TO "E"111+80

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER 7/28/06

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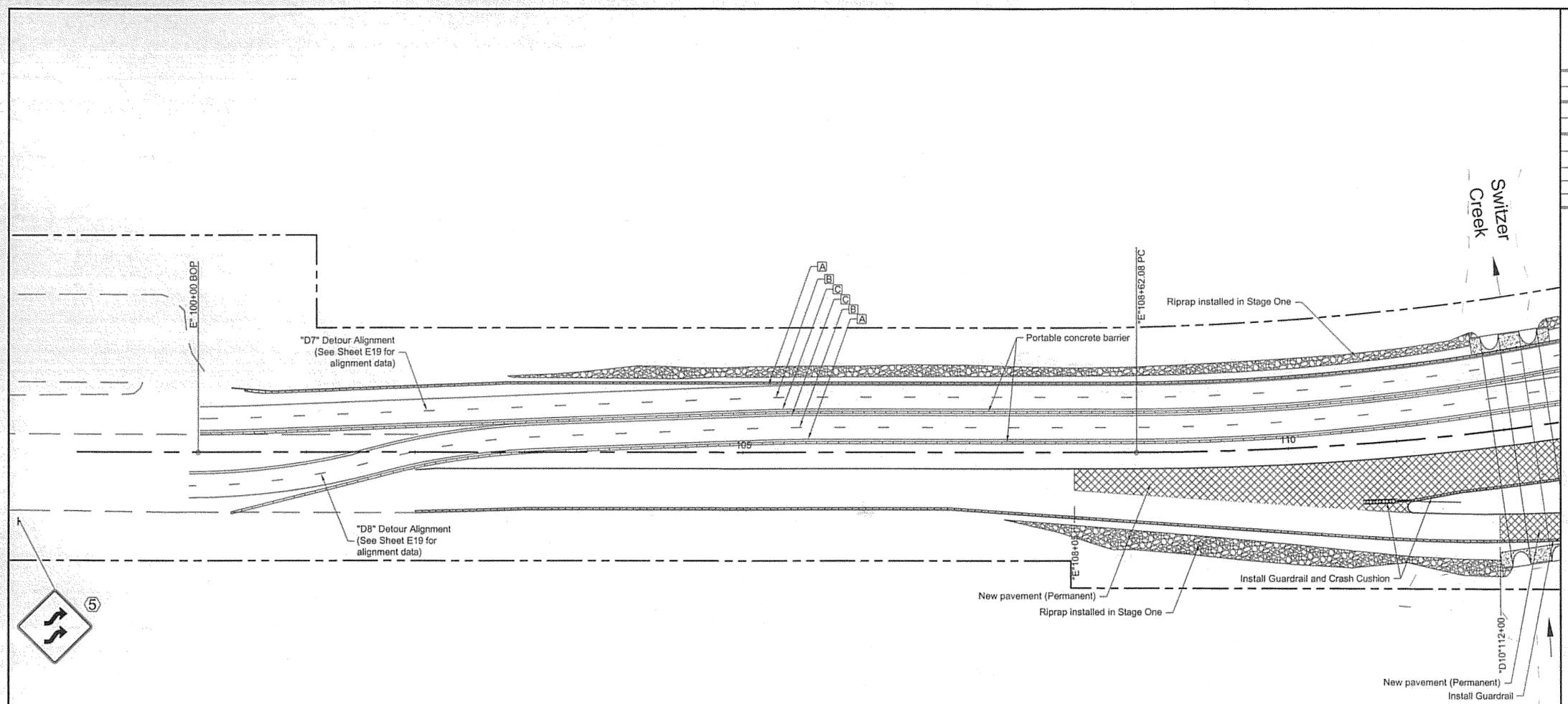
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

TYPICAL SECTIONS CONSTRUCTION STAGE ONE

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E3	269



TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE FOUR)

LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- [A] 4" White (Continuous)
- [B] 4" White (Broken - 10' White/30' Gap)
- [C] 4" Yellow (Continuous)

GRAPHIC SCALE (Feet)

0 50 100 200

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
12/28/06

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DRAWN BY:

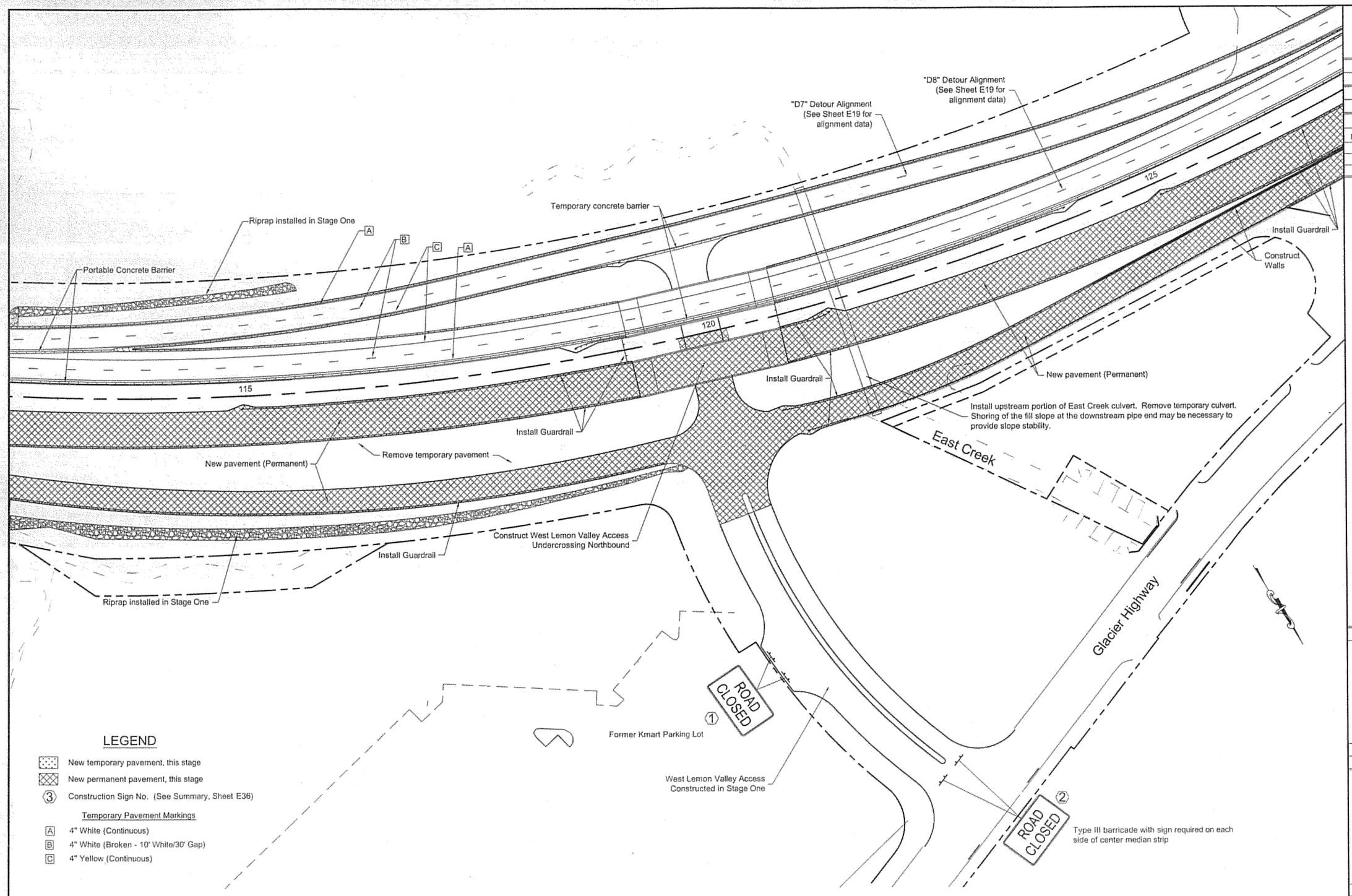
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

DETOUR & TRAFFIC CONTROL CONSTRUCTION STAGE FOUR

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E30	269



TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE FOUR)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
4/28/06

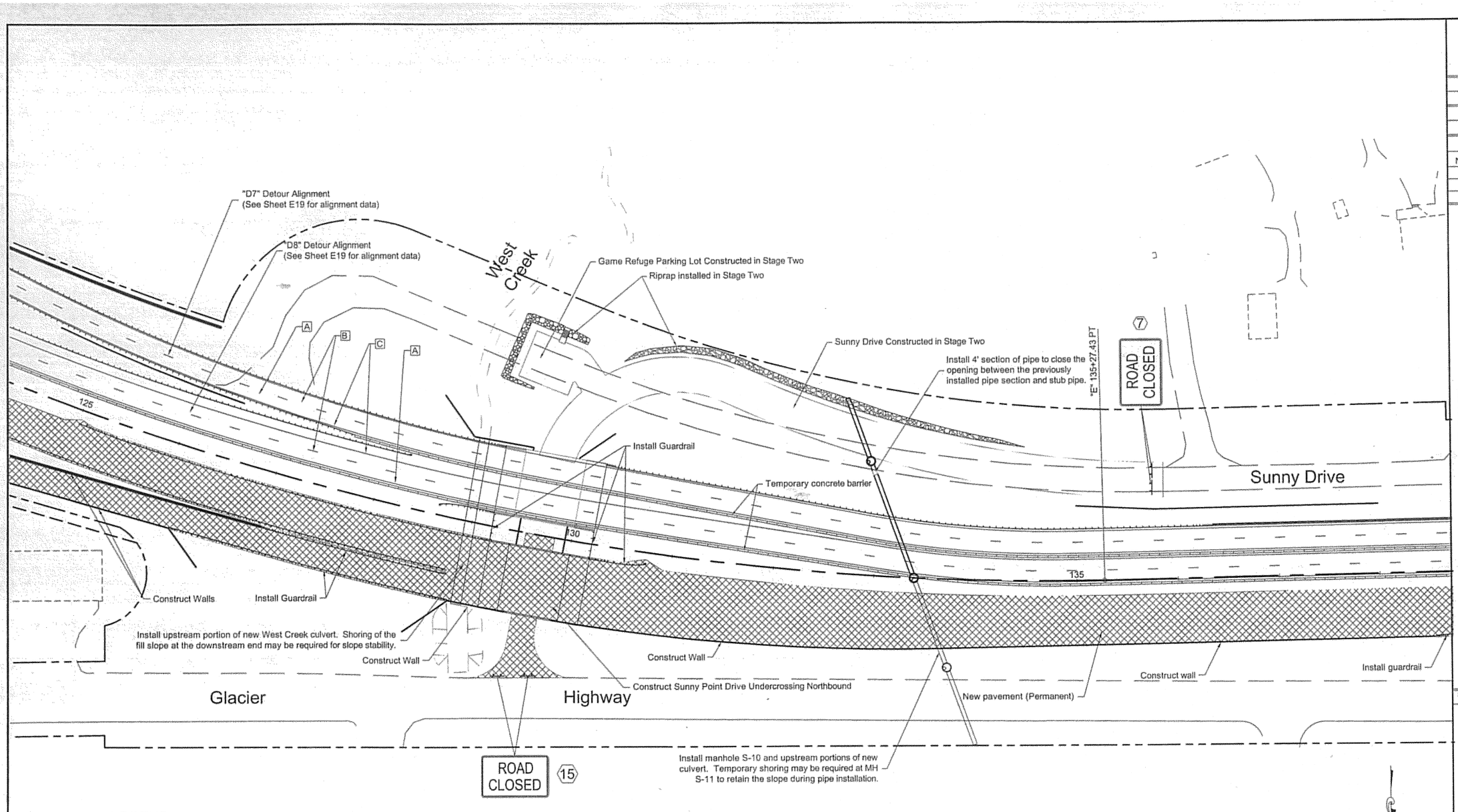
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DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TEMPORARY DETOUR
CONSTRUCTION STAGE FOUR

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E31	269



LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- A 4" White (Continuous)
- B 4" White (Broken - 10' White/30' Gap)
- C 4" Yellow (Continuous)

GRAPHIC SCALE (Feet)

0 50 100 200

TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE FOUR)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

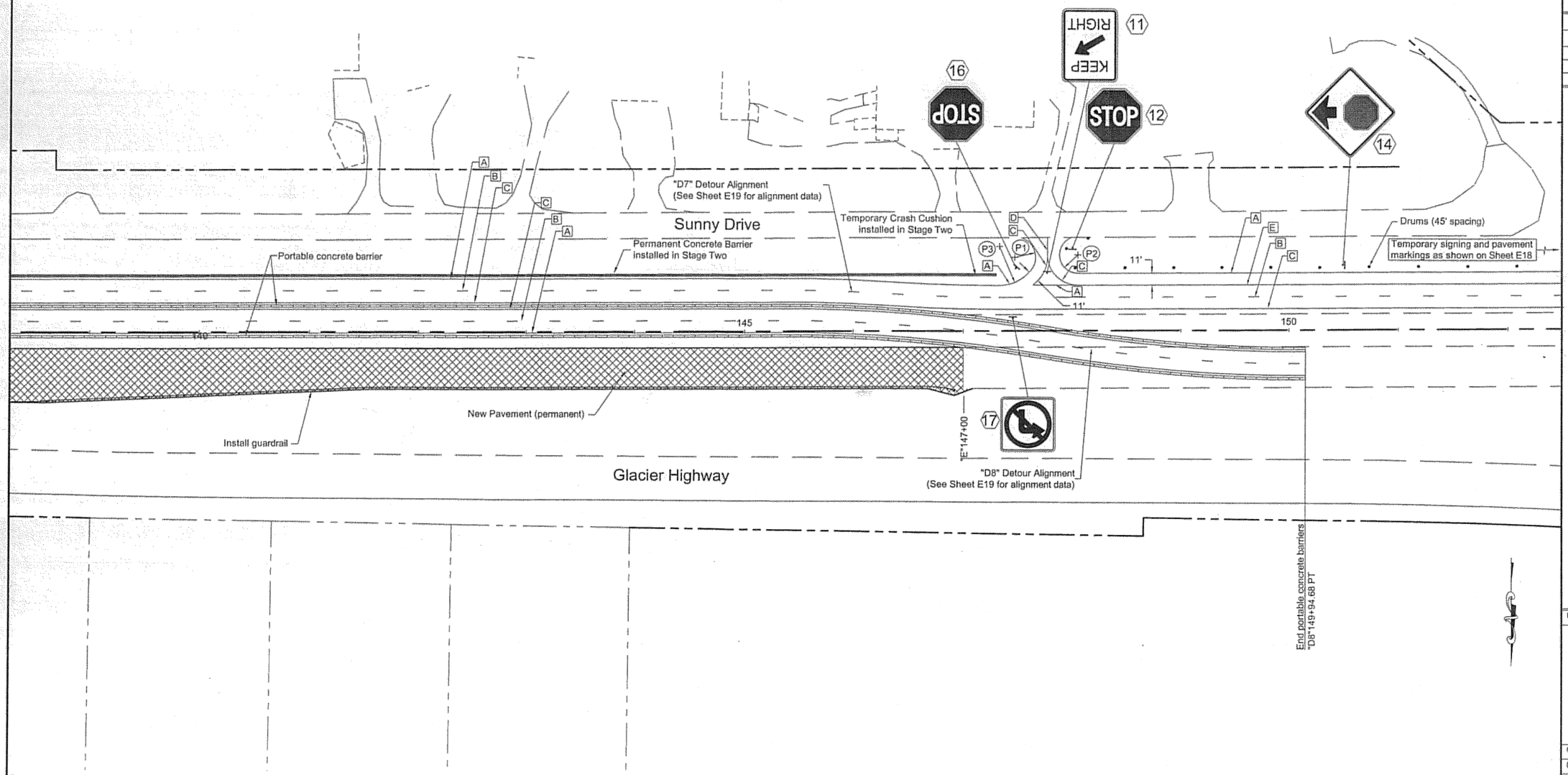
DETOUR & TRAFFIC CONTROL CONSTRUCTION STAGE FOUR

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E32	269

RADIUS POINT OFFSET TABLE

Point	Station	Offset	Description
(P1)	"E"147+48.28	68.02' Lt.	Radius Point (19' Radius)
(P2)	"E"148+06.27	70.00' Lt.	Radius Point (17' Radius)
(P3)	"E"147+34.21	78.00' Lt.	Radius Point (36' Radius)

Radii are to pavement markings at edge of traveled way



LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage
- (3) Construction Sign No. (See Summary, Sheet E36)

Temporary Pavement Markings

- [A] 4" White (Continuous)
- [B] 4" White (Broken - 10' White/30' Gap)
- [C] 4" Yellow (Continuous)
- [D] Double 4" Yellow (Continuous)
- [E] 8" White (Continuous)

GRAPHIC SCALE (Feet)

0 50 100 200

TEMPORARY DETOUR AND TRAFFIC CONTROL PLAN
(CONSTRUCTION STAGE FOUR)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DETOUR & TRAFFIC CONTROL PLAN
CONSTRUCTION SEQUENCING - STAGE FOUR

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
4/28/06

CHECKED BY:

DRAWN BY:

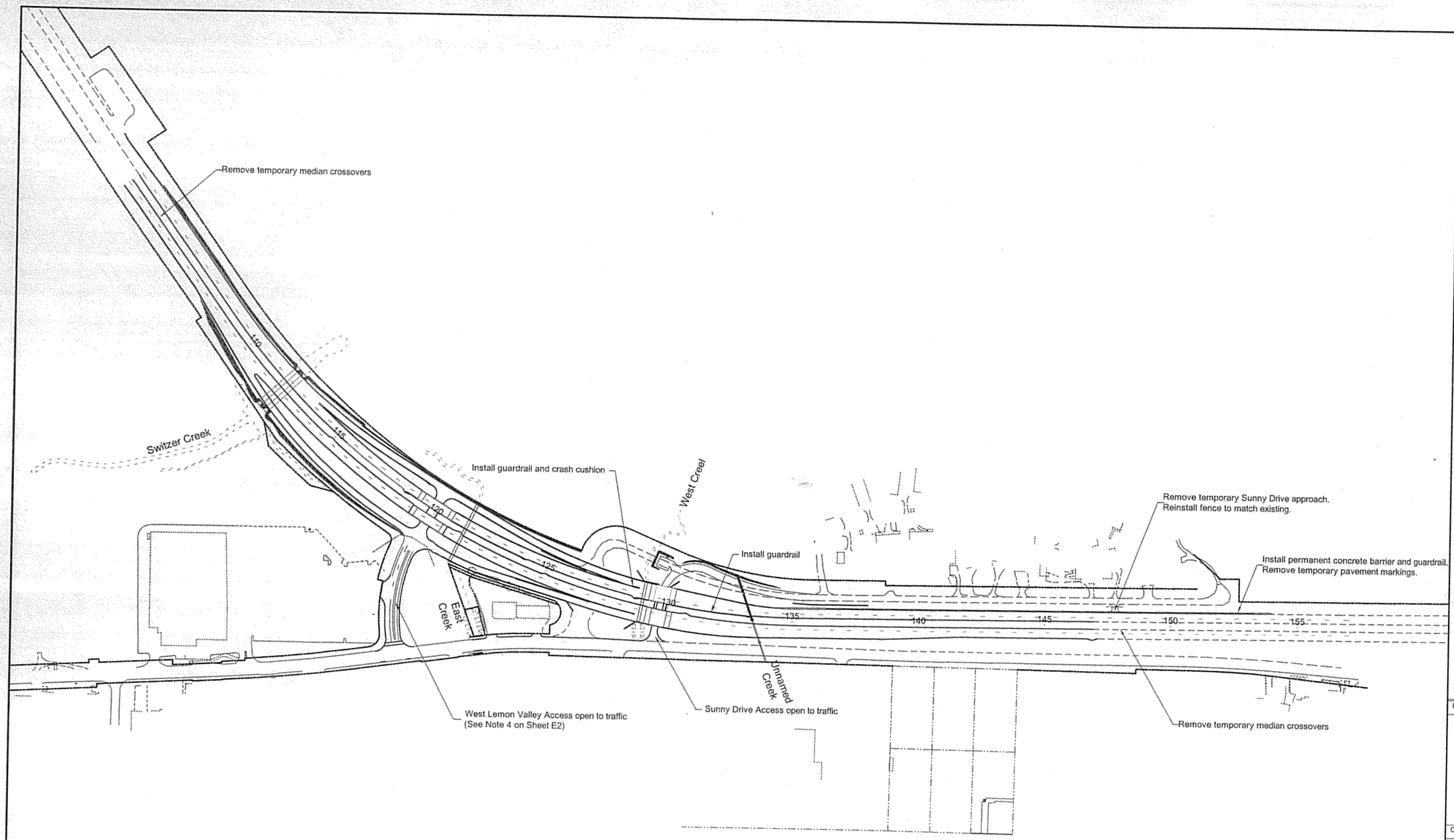
STATE OF ALASKA
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& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

DETOUR & TRAFFIC CONTROL
CONSTRUCTION STAGE FOUR

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E33	269



GRAPHIC SCALE (Feet)
0 200 400 800

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

CONSTRUCTION STAGE FIVE
CONSTRUCTION SEQUENCING

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/16

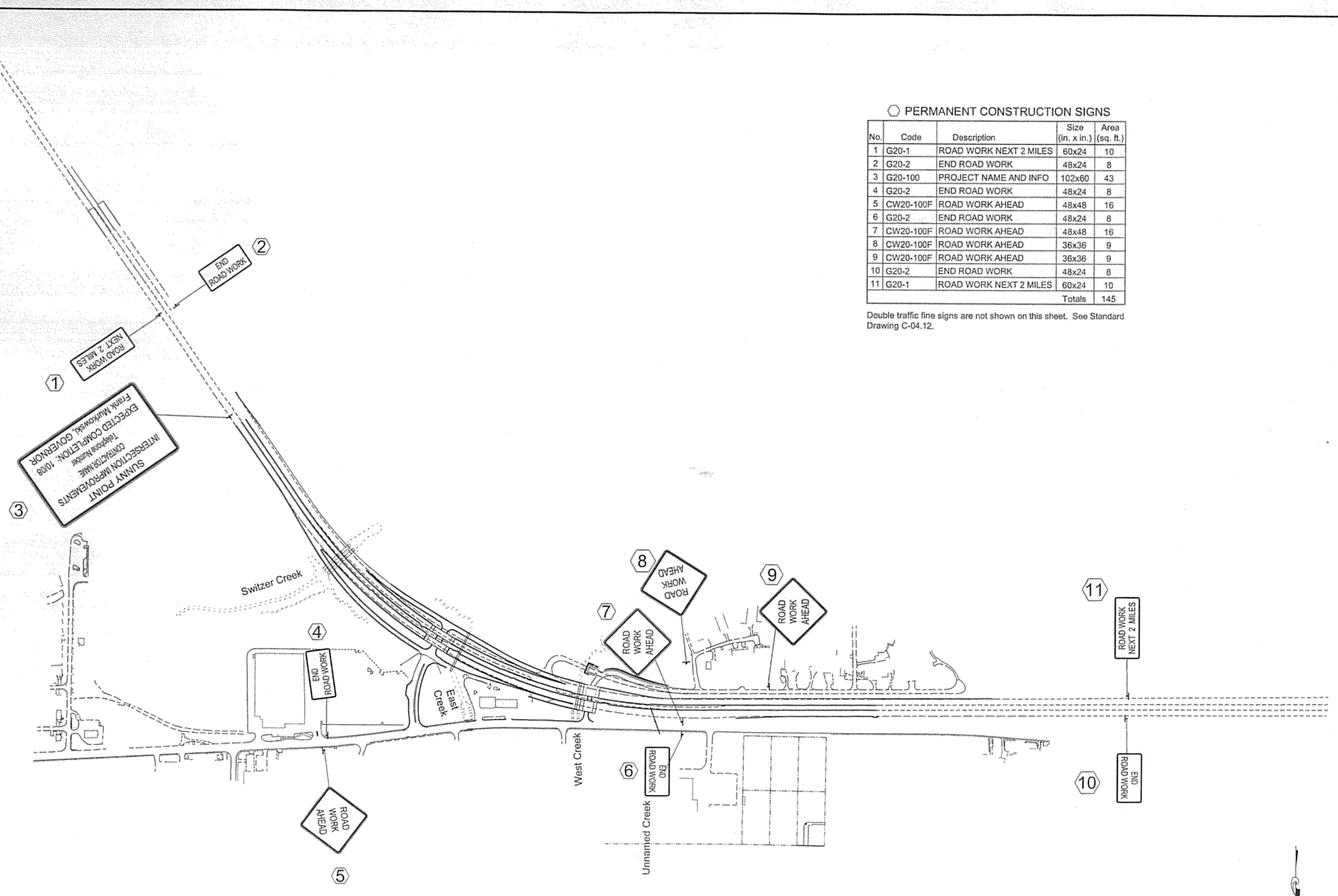
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SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

CONSTRUCTION STAGE FIVE
CONSTRUCTION SEQUENCING

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E34	269



◯ PERMANENT CONSTRUCTION SIGNS

No.	Code	Description	Size (in. x in.)	Area (sq. ft.)
1	G20-1	ROAD WORK NEXT 2 MILES	60x24	10
2	G20-2	END ROAD WORK	48x24	8
3	G20-100	PROJECT NAME AND INFO	102x60	43
4	G20-2	END ROAD WORK	48x24	8
5	CW20-100F	ROAD WORK AHEAD	48x48	16
6	G20-2	END ROAD WORK	48x24	8
7	CW20-100F	ROAD WORK AHEAD	48x48	16
8	CW20-100F	ROAD WORK AHEAD	36x36	9
9	CW20-100F	ROAD WORK AHEAD	36x36	9
10	G20-2	END ROAD WORK	48x24	8
11	G20-1	ROAD WORK NEXT 2 MILES	60x24	10
			Totals	145

Double traffic fine signs are not shown on this sheet. See Standard Drawing C-04.12.

GRAPHIC SCALE (Feet)
0 300 600 1200

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PERMANENT CONSTRUCTION SIGNS
TRAFFIC MAINETNANCE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
1/28/06

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

PERMANENT CONSTRUCTION SIGNS

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E35	269

STANDARD CONSTRUCTION SIGNS

No.	Code	Description	Station	Size (in. x in.)	Area (sq. ft.)
1	R11-2	ROAD CLOSED	"G"12+38 54"Lt.	48x30	10
	R11-2	ROAD CLOSED	"G"12+63 54'Lt.	48x30	10
2	R11-2	ROAD CLOSED	"G"10+50 16'Lt.	48x30	10
	R11-2	ROAD CLOSED	"G"10+50 11'Rt.	48x30	10
3	R11-2	ROAD CLOSED	"E"147+78 82'Lt.	48x30	10
4	R11-2	ROAD CLOSED	"E"147+86 56'Lt.	48x30	10
5	W1-4BL	CURVES LEFT	"E"97+00 58' Rt.	36x36	9
6	W1-4BL	CURVES LEFT	"E"105+50 67'Lt.	36x36	9
7	R11-2	ROAD CLOSED	"S"18+80 6' Rt.	48x30	10
	R11-2	ROAD CLOSED	"S"18+80 6' Lt.	48x30	10
8	R11-2	ROAD CLOSED	"E"147+00 25'Lt.	48x30	10
	W1-6	ONE DIRECTION ARROW		48x24	8
	R11-2	ROAD CLOSED	"E"147+00 37'Lt.	48x30	10
	W1-6	ONE DIRECTION ARROW		48x24	8
9	R1-1	STOP	"E"147+27 31'Lt.	30x30	6
10	R3-2L	NO LEFT TURN	"E"147+25 13'Rt.	30x30	6
11	R4-7B	KEEP RIGHT	"E"147+78 53'Lt.	30x36	8
12	R1-1	STOP	"E"148+00 78'Lt.	30x30	6
13	W3-1	STOP AHEAD	"E"150+50 60'Lt.	36x36	9
14	W1-4BR	CURVES RIGHT	"E"105+50 7'Lt.	36x36	9
15	R11-2	ROAD CLOSED	"S"10+19 15'Lt.	48x30	10
	R11-2	ROAD CLOSED	"S"10+25 15'Rt.	48x30	10
16	R1-1	STOP	"E"147+50 58'Lt.	30x30	6
17	R3-2L	NO LEFT TURN	"E"147+45 12'Lt.	30x30	6
				Totals	210

SPECIAL CONSTRUCTION SIGNS

Description	Location	Size (in. x in.)	Area (sq. ft.)
Special Sign No. 1	"E"156+50 60' Lt.	36x36	9
Special Sign No. 2	Egan NB @ Glacier Highway	36x36	9
Special Sign No. 2	Yandurkin SB @ Egan Exit	36x36	9
Special Sign No. 2	Glacier Highway @ Old Dairy Road	36x36	9
Special Sign No. 3	Egan NB 300' South of BOP	36x36	9
Special Sign No. 4	Egan NB @ 1/4 Mile South of Vanderbilt	90x36	23
Special Sign No. 5	Egan NB 800' South of BOP	60x24	10
Special Sign No. 6	Egan SB @ 300' N of Yandurkin Drive Exit	84x36	21
		Totals	99

MISCELLANEOUS TRAFFIC CONTROL QUANTITIES

Item	Unit	Estimated Quantity				
		Construction Stage				
		One	Two	Three	Four	Total
Temporary Pavement	Square Yard	16,950	8,850			25,800
Temporary Concrete Barrier	Linear Foot		14,130	13,130	8,740	

Note:
The Contractor shall furnish two Portable Changeable Message Board Signs. The messages displayed on the signs and the sign locations will be as directed by the Engineer.

TEMPORARY CULVERT INSTALLATION SUMMARY

Description	Approx. Location	Pipe Size	Pipe Length	Remarks
Upstream extension of East Creek culvert	"E"128+85	60"	100'	
Upstream extension of West Creek culvert	"E"128+92	72"x44"	36'	
Downstream extension of Unnamed Creek culvert	"E"133+53	48"	31'	
Upstream extension of Unnamed Creek culvert	"E"133+78	48"	10'	
		Total	177'	

Notes:
Removal of temporary culverts is considered to be a subsidiary obligation to the temporary culvert installation and no separate payment will be made. Temporary culverts may be abandoned in place by filling with a pumped slurry grout or by other methods as approved by the Engineer.

The fish symbol  indicates work in a stream or ditch that is subject to ADF&G and/or COE permits.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

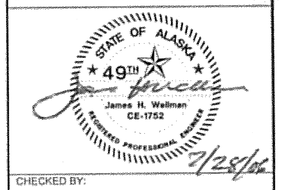
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TRAFFIC CONTROL QUANTITIES
CONSTRUCTION SEQUENCING AND TRAFFIC CONTROL

DESIGNED BY: JAMES WELLMAN



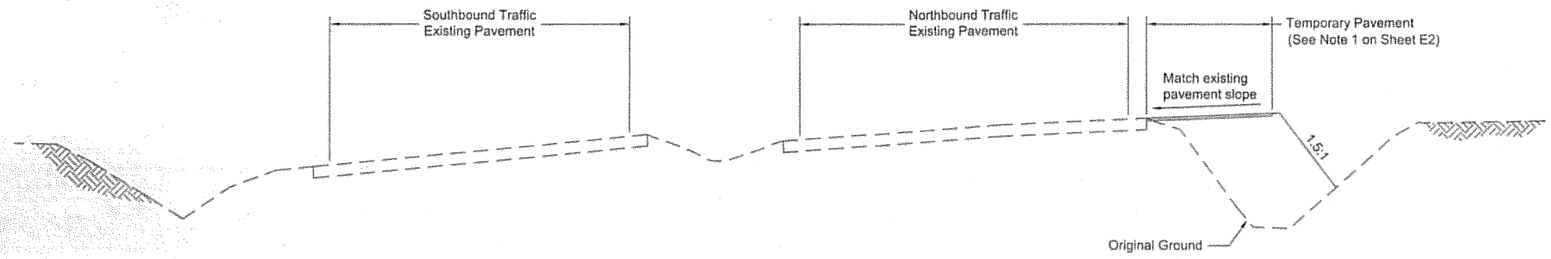
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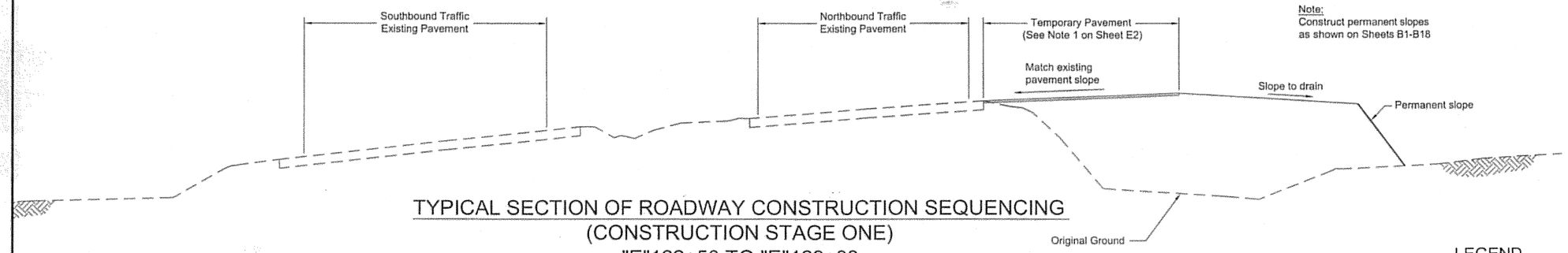
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TRAFFIC CONTROL QUANTITIES

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E36	269



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE ONE)
"E"129+00 to "E"140+00

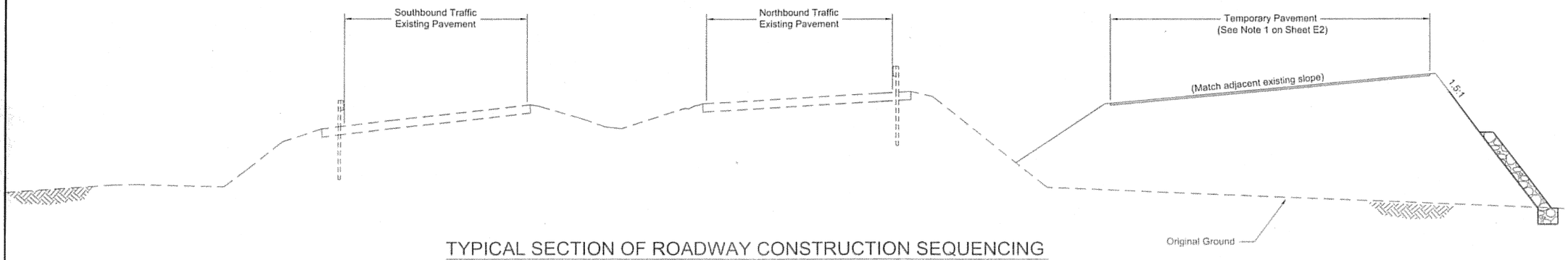


Note:
Construct permanent slopes
as shown on Sheets B1-B18

TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE ONE)
"E"122+50 TO "E"129+00

LEGEND

Temporary construction (or original ground)	Permanent construction	
		Construction this stage
		Existing at start of this stage



TYPICAL SECTION OF ROADWAY CONSTRUCTION SEQUENCING
(CONSTRUCTION STAGE ONE)
"E"112+50 TO "E"122+50

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TYPICAL ROADWAY SECTIONS
CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/25/06

CHECKED BY:

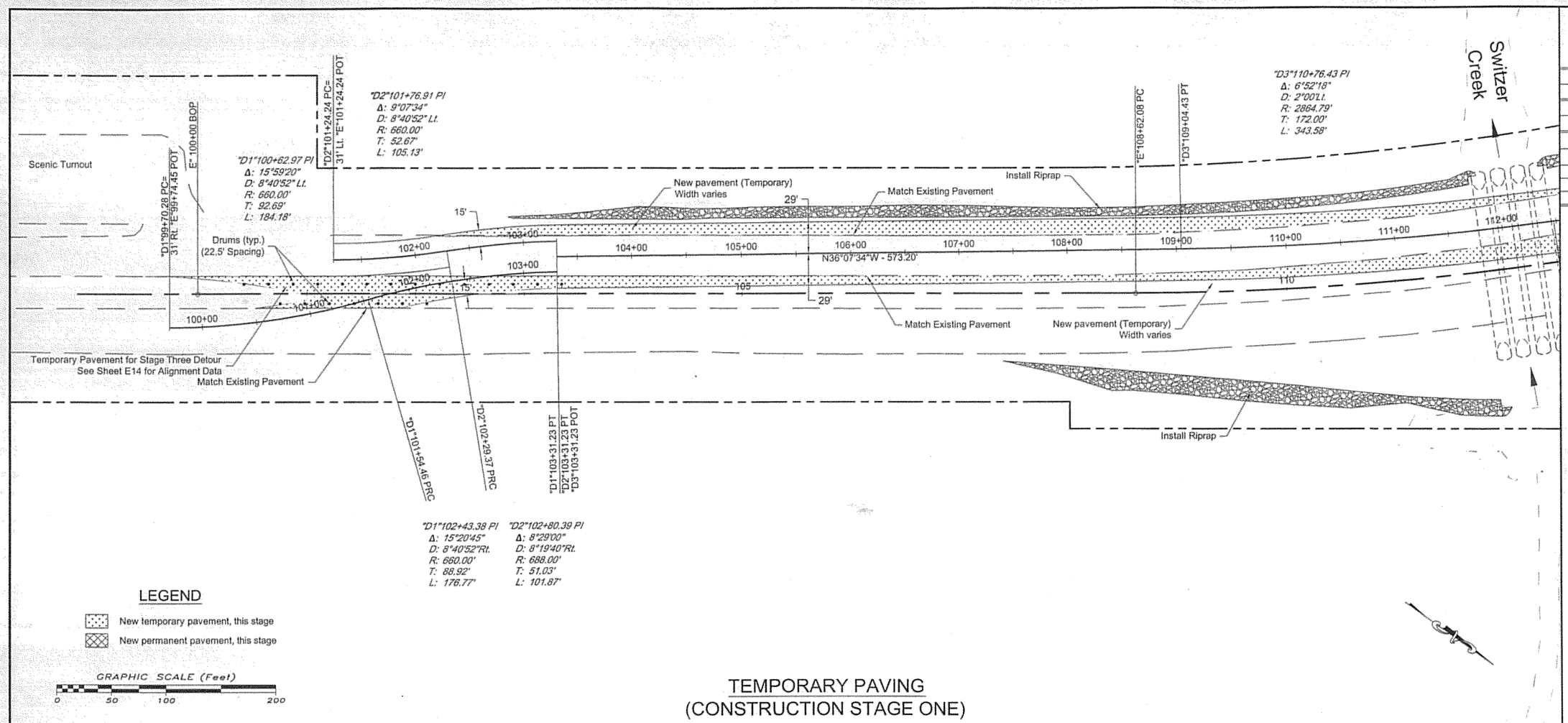
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DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TYPICAL SECTIONS
CONSTRUCTION STAGE ONE

PROJECT DESIGNATION NUMBER
71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E4	269



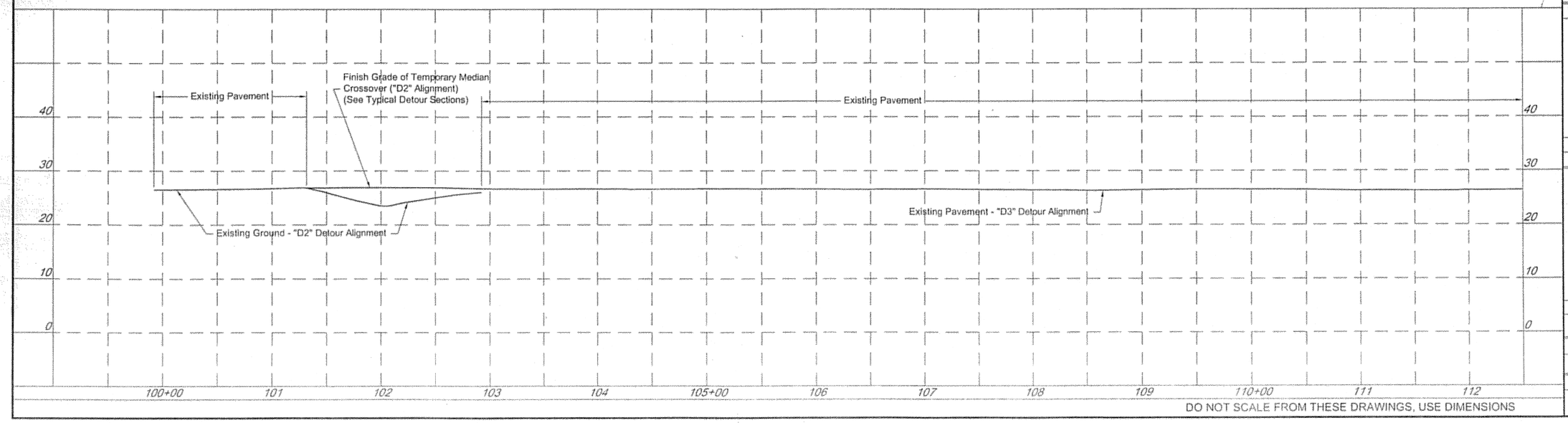
LEGEND

- New temporary pavement, this stage
- New permanent pavement, this stage

GRAPHIC SCALE (Feet)

0 50 100 200

TEMPORARY PAVING
(CONSTRUCTION STAGE ONE)



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TEMPORARY PAVING CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH James H. Wellman CE-1752 REGISTERED PROFESSIONAL ENGINEER

7/28/06

CHECKED BY:

DRAWN BY:

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

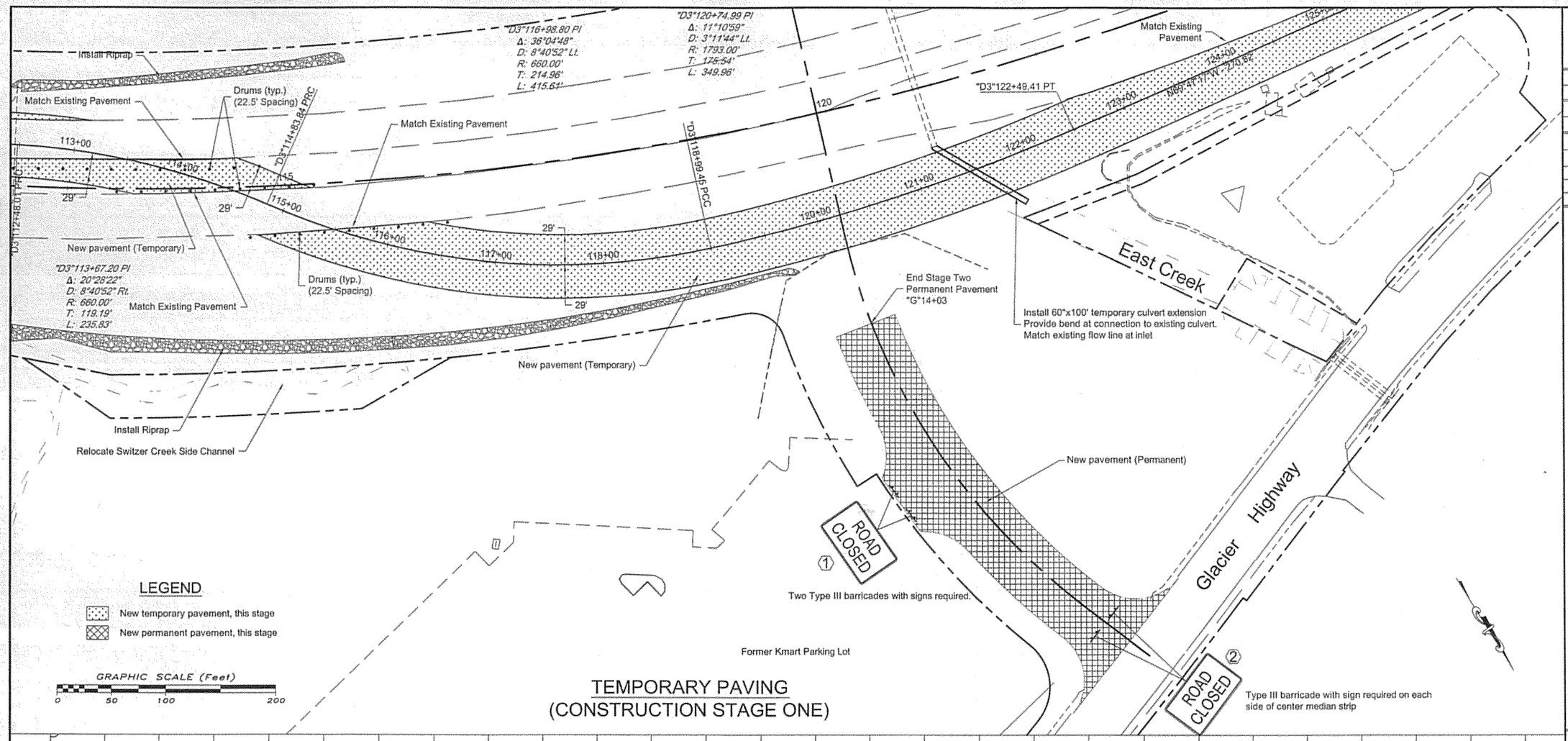
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TEMPORARY PAVING CONSTRUCTION STAGE ONE

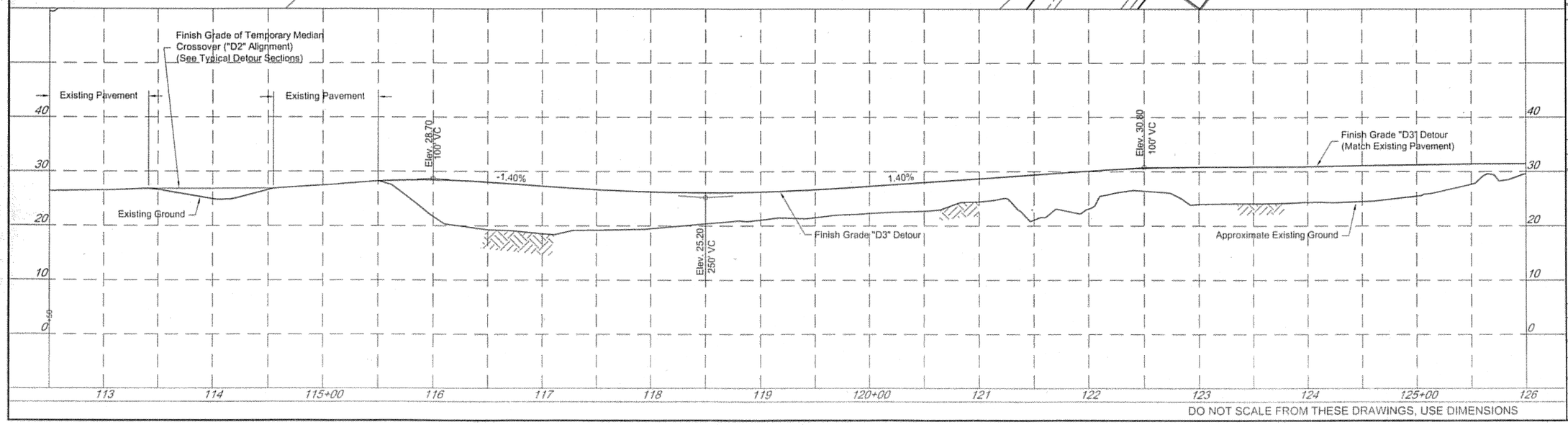
PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E5	269



TEMPORARY PAVING
(CONSTRUCTION STAGE ONE)



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

TEMPORARY PAVING CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/25/06

CHECKED BY:

DRAWN BY:

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

TEMPORARY PAVING CONSTRUCTION STAGE ONE

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E6	269

LEGEND

New temporary pavement, this stage

New permanent pavement, this stage

Sunny Drive

"D3"125+20.23 PC

Match Existing Pavement

Remove Existing Curb and Island

"D3"130+56.11 PI
Δ: 21°32'47"
D: 2°02'04"Lt.
R: 2816.35'
T: 525.88'
L: 1059.10'

Install 31'x48" temporary extension to existing culvert. Grade to drain to the existing Sunny Drive culvert.

"E" 135+27.43 PT

"D3"135+79.33 PT

Match Existing Pavement

New pavement (Temporary)

Install temporary 36' extension to existing 72"x44" culvert. Provide bend at connection to existing culvert. Match existing flow line at inlet.

Glacier Highway

New pavement (Temporary)
Width varies

Install 10'x48" temporary extension to existing culvert. Provide bend at connection to existing culvert. Match existing flow line at inlet.

Match Existing Pavement

GRAPHIC SCALE (Feet)
0 50 100 200

TEMPORARY PAVING
(CONSTRUCTION STAGE ONE)

Existing Pavement

Existing Pavement

Finish Pavement Grade of Temporary Detour (Match Existing Pavement)

Existing Pavement

Remove Existing Curb and Island

Finish Pavement Grade of Temporary Detour (Match Existing Pavement)

Approximate Existing Ground

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TEMPORARY PAVING
CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

CHECKED BY:

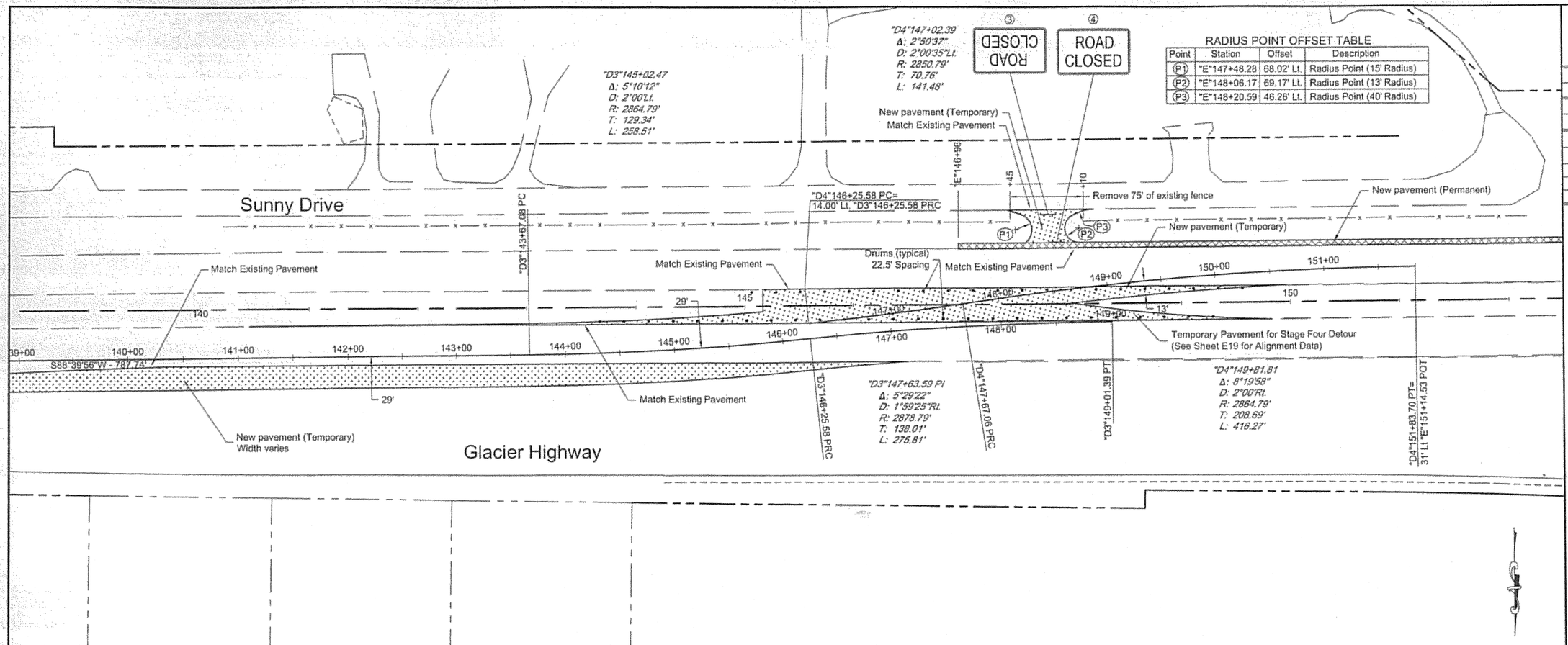
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

TEMPORARY PAVING
CONSTRUCTION STAGE ONE

PROJECT DESIGNATION NUMBER
71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E7	269



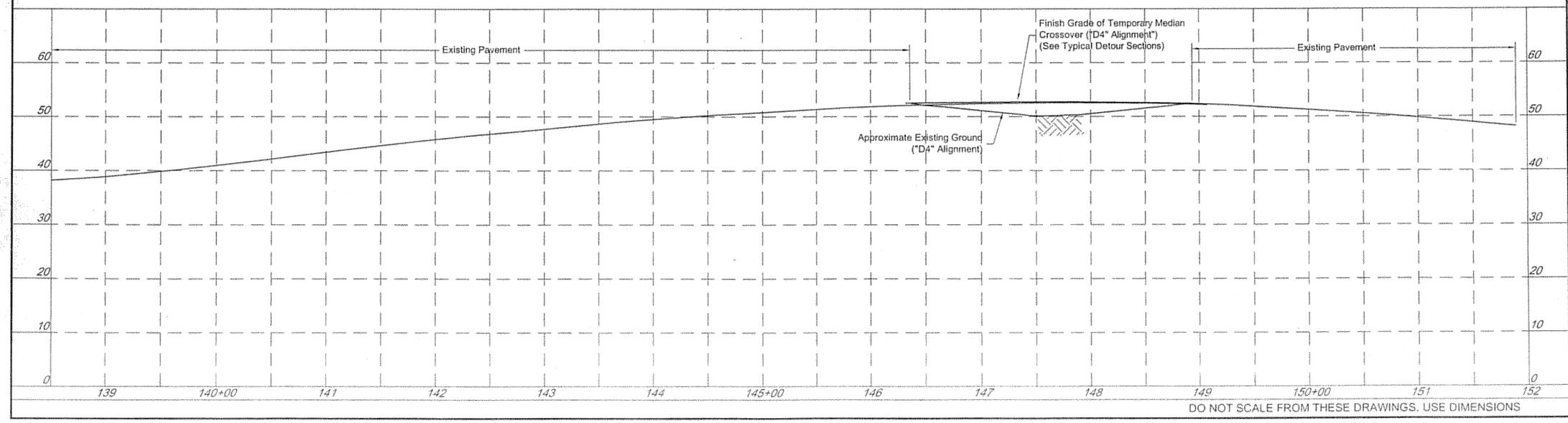
LEGEND

New temporary pavement, this stage

New permanent pavement, this stage

TEMPORARY PAVING
(CONSTRUCTION STAGE ONE)

GRAPHIC SCALE (Feet)
0 50 100 200



DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

TEMPORARY PAVING CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA 49TH
James H. Wellman CE-1752
REGISTERED PROFESSIONAL ENGINEER
12/28/06

CHECKED BY:

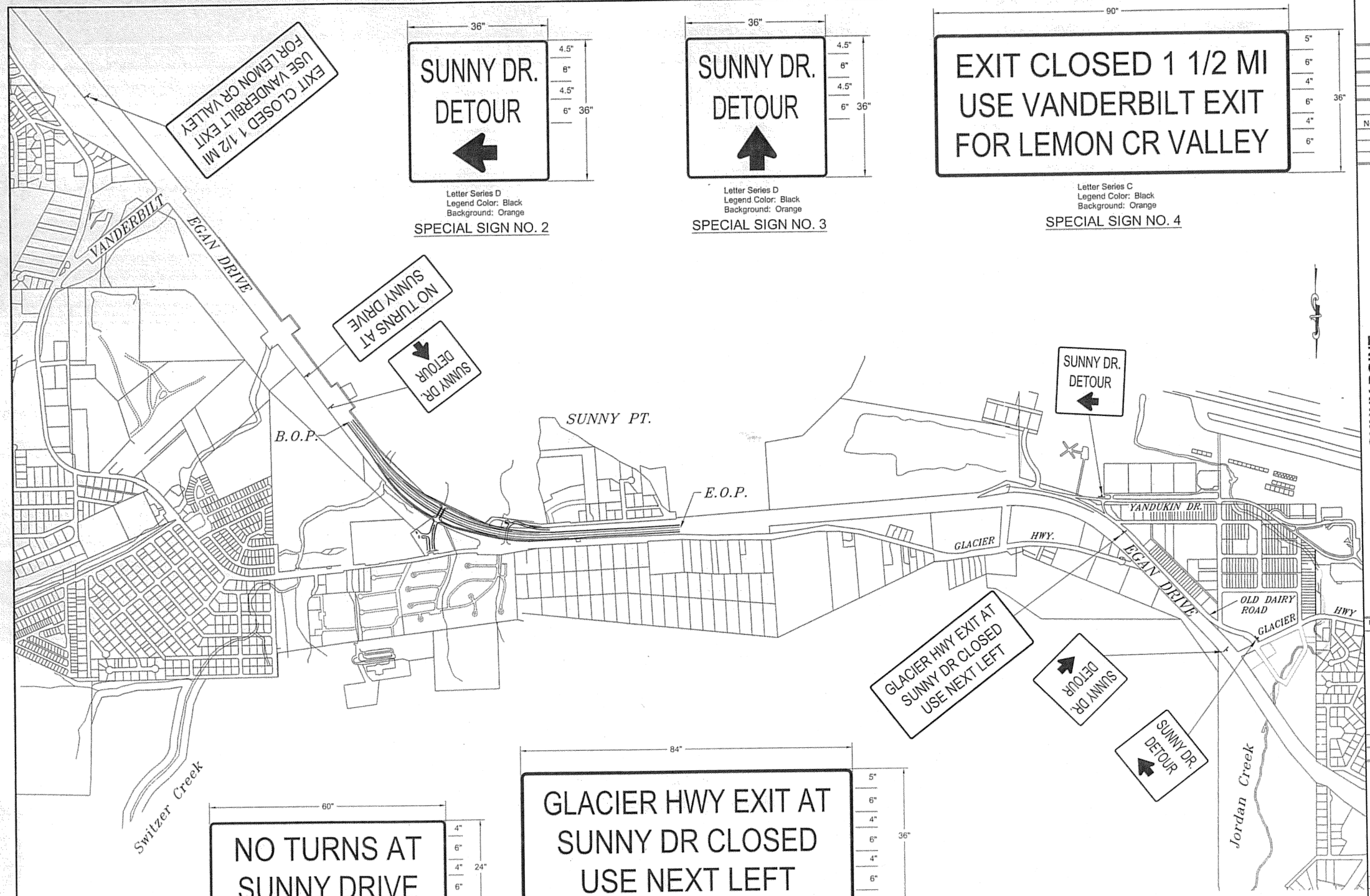
DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

TEMPORARY PAVING CONSTRUCTION STAGE ONE

PROJECT DESIGNATION NUMBER
71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E8	269



Letter Series D
Legend Color: Black
Background: Orange

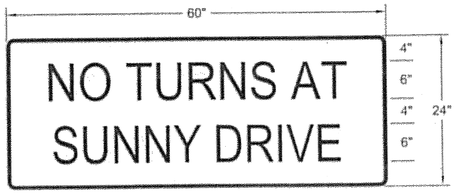
SPECIAL SIGN NO. 2

Letter Series D
Legend Color: Black
Background: Orange

SPECIAL SIGN NO. 3

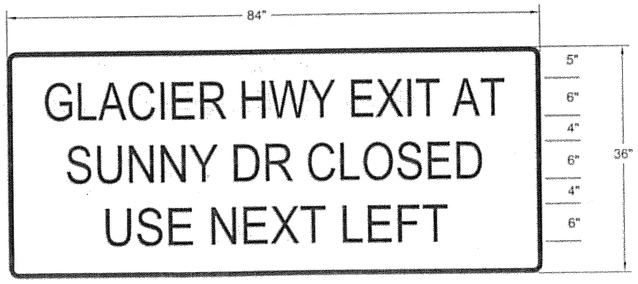
Letter Series C
Legend Color: Black
Background: Orange

SPECIAL SIGN NO. 4



Letter Series C
Legend Color: Black
Background: Orange

SPECIAL SIGN NO. 5



Letter Series C
Legend Color: Black
Background: Orange

SPECIAL SIGN NO. 6

GRAPHIC SCALE (Feet)
0 600 1200 2400

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)--71431

SPECIAL SIGNS
CONSTRUCTION SEQUENCING - STAGE ONE

DESIGNED BY: JAMES WELLMAN

STATE OF ALASKA
49TH
James H. Wellman
CE-1752
REGISTERED PROFESSIONAL ENGINEER
7/28/06

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

SPECIAL SIGNS
CONSTRUCTION SEQUENCING

PROJECT DESIGNATION NUMBER

71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E9	269

MENDENHALL WETLANDS STATE GAME REFUGE

SCENIC VIEWPOINT

R/W

EXIST. 48" CMP
OUTLET I.E. = 17.31'

APPROX. AREA OF INVASIVE PLANTS

STA. "E" 100+67.93
56.32' LT.

STA. "E" 100+30.68
59.41' LT.

STA. "E" 100+30.79
53.83' LT.

SAWCUT & M.T.E.

STA. "E" 102+00.00
52.03' LT.

SAWCUT & M.T.E.

PROTECT AND MAINTAIN EXIST. 48" CMP

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

"E" 100+00

"E" 101+00

"E" 102+00

"E" 103+00

"E" 104+00

"E" 105+00

N 35°28'59" W - 862.08'

BEGIN "E" BASELINE
EGAN DRIVE
STA. "E" 100+00.00
N 498,982.16
E 511,002.36

BEGIN PAVING
EGAN DRIVE
STA. "E" 102+00.00
N 499,145.02
E 510,886.26

SAWCUT & M.T.E.

EDGE OF TRAVELED WAY

NORTHBOUND LANES

STA. "E" 102+00, 53.87' RT.
CONNECT NEW GUARDRAIL
TO EXISTING GUARDRAIL

STA. "E" 103+00.03
53.00' RT.

EXIST. 48" CMP
INLET I.E. = 17.54'

AUTOMATIC TRAFFIC RECORDING DEVICE, SEE "Q" SHEETS FOR DETAILS & LAYOUT INFORMATION

R/W

R/W

60.00
50.00
40.00
30.00
20.00
10.00
0.00

APPROXIMATE ORIGINAL GROUND

BOP STA = "E" 102+00.00
BOP EL = 26.78
FIELD VERIFY

INSIDE SHOULDER PROFILE

MEDIAN PROFILE

0.136%

M.T.E. MEDIAN

EXIST. 48" CMP

26.92

27.05

27.19

"E" 100+00 "E" 101+00 "E" 102+00 "E" 103+00 "E" 104+00 "E" 105+00

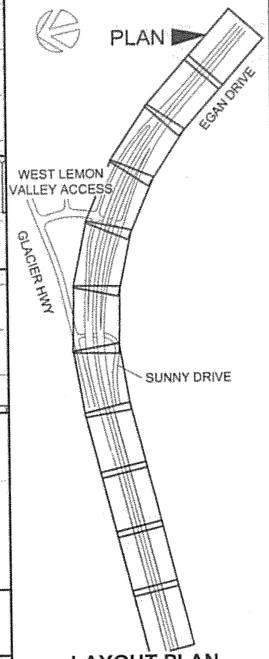
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
9-7-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Egan Drive
"E" Sta. 100+00 to 105+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F1	269

I:\2005\051651\Design Drawings\EA\051652ep.dwg PLOT: September 06, 2006 at: 3:24pm

SUNNY DRIVE

SAWCUT & M.T.E.

CONCRETE BARRIER, SEE SHEET J4

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

SAWCUT & M.T.E.

"E" 147+00 "E" 148+00 "E" 149+00 "E" 150+00 "E" 151+00 "E"

S 88°59'05" W - 2,179.39'

END OF PAVING
EGAN DRIVE
STA. "E" 146+96.00
N 500,816.74
E 507,045.55

NORTHBOUND LANES

EDGE OF TRAVELED WAY

SAWCUT & M.T.E.

EOP STA = "E" 146+96.00
EOP EL = 42.75
FIELD VERIFY

0.502%

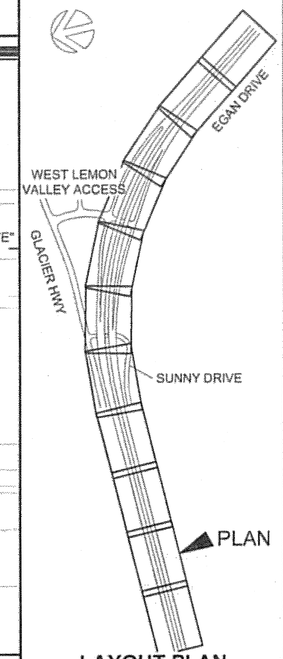
M.T.E. MEDIAN

APPROXIMATE ORIGINAL GROUND

60.00
50.00
40.00
30.00
20.00
10.00
0.00

"E" 147+00 "E" 148+00 "E" 149+00 "E" 150+00 "E" 151+00 "E"

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS



ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Egan Drive
"E" Sta. 146+50 to 151+50
PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F10	269

I:\2005\051363\Design Drawings\EPI\051363ep.dwg PLOT: August 04, 2006 at: 1:39pm

MENDENHALL WETLANDS
STATE GAME REFUGE

SUNNY DRIVE

R/W

APPROX. EXIST.
TREE LINE

EXIST. 36" CMP
OUTLET I.E. = 19.69'

SAWCUT & M.T.E.

SOUTHBOUND LANES

END CONCRETE BARRIER
"E"153+33.00, 51.00' LT.
SEE SHEETS J4 & J12

STA. "E" 154+03.11
50.00' LT.

PROTECT AND MAINTAIN
EXIST. 36" CMP

"E" 152+00 "E" 153+00 "E" 154+00 "E" 155+00 "E" 156+00 "E" 157+00

S 88°59'05" W - 2,179.39'

END "E" BASELINE
EGAN DRIVE
STA. "E" 157+06.82
N 500,798.83
E 506,034.89

NORTHBOUND LANES

EXIST. 36" CMP
INLET I.E. = 21.93'

60.00
50.00
40.00
30.00
20.00
10.00
0.00

APPROXIMATE ORIGINAL GROUND

EXIST. 36" CMP

"E" 152+00 "E" 153+00 "E" 154+00 "E" 155+00 "E" 156+00 "E" 157+00

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

EGAN DRIVE
WEST LEMON
VALLEY ACCESS
GLACIER HWY
SUNNY DRIVE
PLAN

LAYOUT PLAN
KEY MAP

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Egan Drive
"E" Sta. 151+50 to 157+06.82
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F11	269

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MENDENHALL WETLANDS STATE GAME REFUGE

BEGIN "I" BASELINE
SOUTHBOUND RAMPS
STA. "I" 97+80.00
N 499,189.31
E 510,801.88

R/W

"I" 98+00 | "I" 99+00 | "I" 100+00 | "I" 101+00 | "I" 102+00

N 35°28'59" W - 563.80'

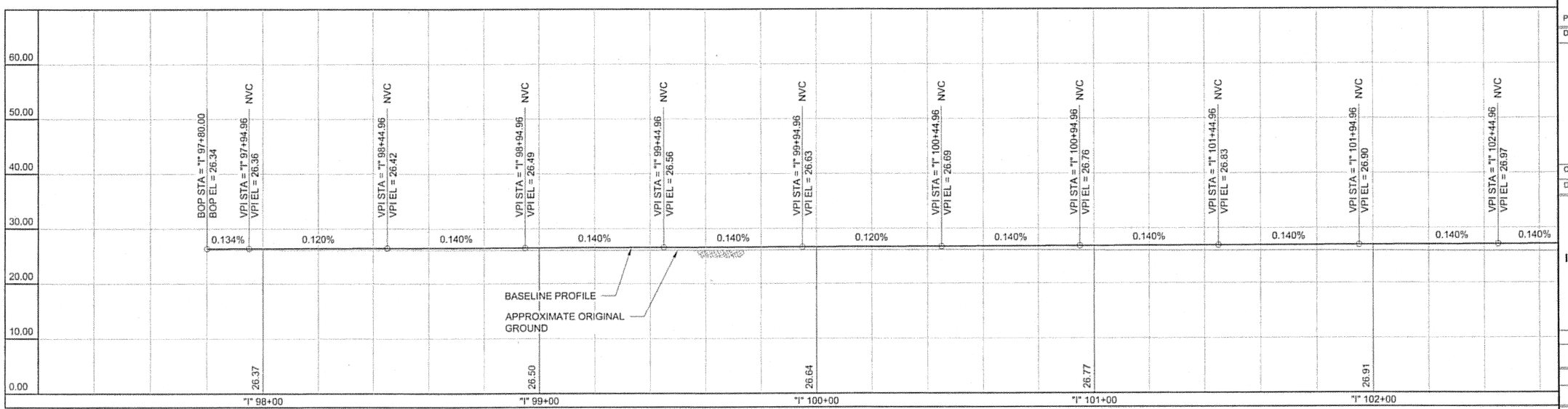
SOUTHBOUND ENTRANCE RAMP

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

EDGE OF TRAVELED WAY

NORTHBOUND LANES



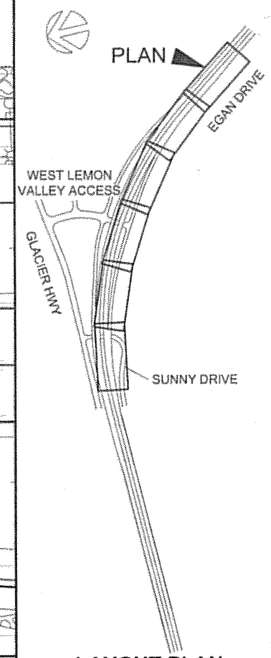
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Southbound Ramps
"I" Sta. 100+00 to 104+50
PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F12	269

I:\2005\051165\Design Drawings\[F\]051165sp.dwg PLOT: August 04, 2006 at: 1:59pm

MENDENHALL WETLANDS STATE GAME REFUGE

SWITZER CREEK

R/W

"I" CURVE DATA
Δ = 23°43'06"
R = 2,100.00'
L = 869.32'
T = 440.98'

"I" 103+00
N 35°28'59" W - 563.80'

PC = "I" 103+43.80

P-1

S-1

"I" 104+00

"I" 105+00

"I" 106+00

"I" 107+00

SOUTHBOUND ENTRANCE RAMP

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

EDGE OF TRAVELED WAY

NORTHBOUND LANES

NORTHBOUND EXIT RAMP

P-2

P-3

VPI STA = "I" 102+44.96 NVC
VPI EL = 26.97

VPI STA = "I" 102+94.96 NVC
VPI EL = 27.04

VPI STA = "I" 103+44.96 NVC
VPI EL = 27.21

VPI STA = "I" 103+94.36 NVC
VPI EL = 27.47

VPI STA = "I" 104+43.57 NVC
VPI EL = 27.84

VPI STA = "I" 104+92.77 NVC
VPI EL = 28.14

VPI STA = "I" 105+41.96 NVC
VPI EL = 28.41

VPI STA = "I" 105+91.13 NVC
VPI EL = 28.75

VPI STA = "I" 106+40.28 NVC
VPI EL = 29.16

VPI STA = "I" 106+89.41 NVC
VPI EL = 29.87

VPI STA = "I" 107+36.08 NVC
VPI EL = 30.75

0.140% 0.140% 0.340% 0.526% 0.752% 0.610% 0.549% 0.691% 0.834% 1.445% 1.886% 1.961%

60.00 50.00 40.00 30.00 20.00 10.00 0.00

27.06 27.51 28.18 28.82 30.07

"I" 103+00 "I" 104+00 "I" 105+00 "I" 106+00 "I" 107+00

BASELINE PROFILE

APPROXIMATE ORIGINAL GROUND

FILL EXIST. 48" CMP AND CATCH BASIN WITH FLOWABLE BACKFILL

HYDROLOGIC AND HYDRAULIC SUMMARY
P-2 & P-3

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	530 CFS	590 CFS	720 CFS
DESIGN HIGH WATER ELEVATION			

SWITZER CREEK
19'-0" x 17'-3" MULTI-PLATE
2 EA., ALUMINUM CULVERTS

P-2 P-3

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

EGAN DRIVE

WEST LEMON VALLEY ACCESS

PLAN

GLACIER HWY

SUNNY DRIVE

LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Southbound Ramps
"I" Sta. 104+50 to 110+00
PLAN & PROFILE

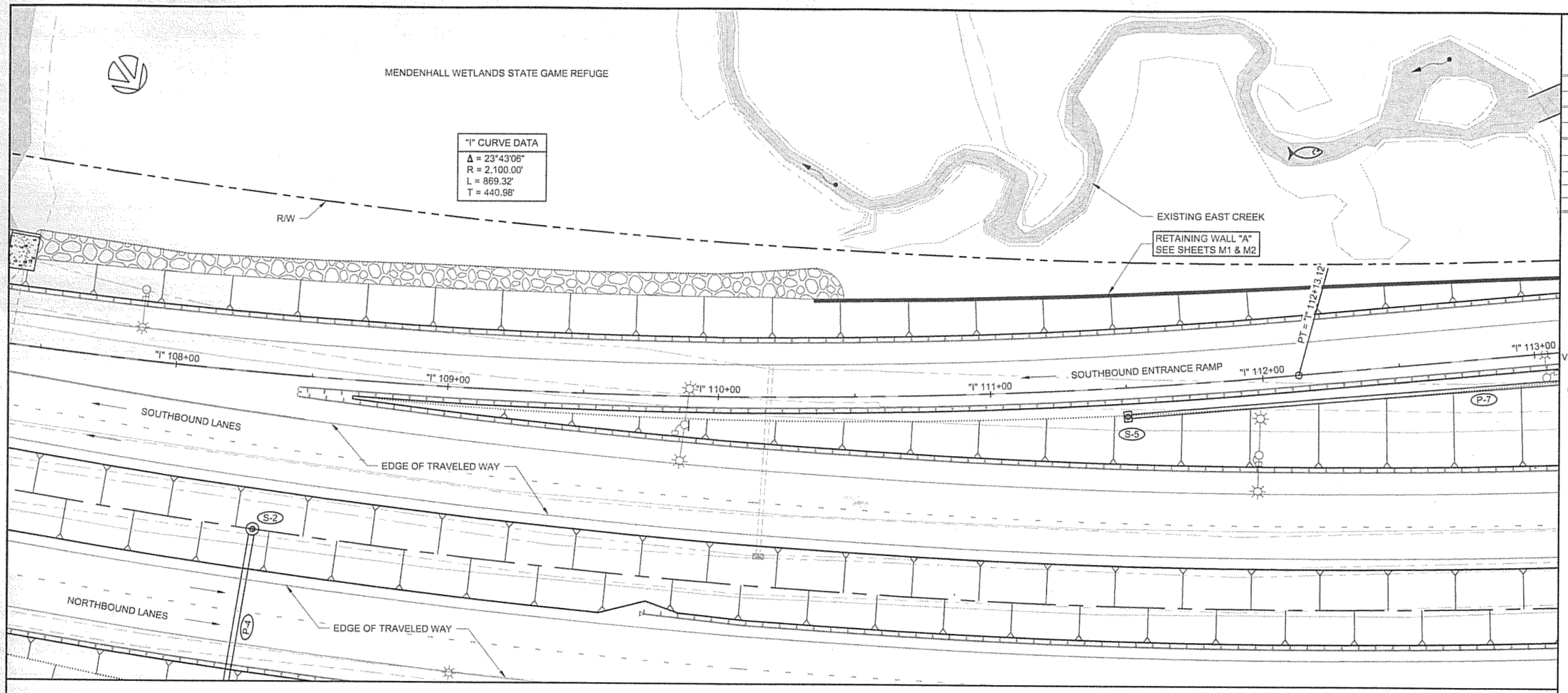
PROJECT DESIGNATION NUMBER

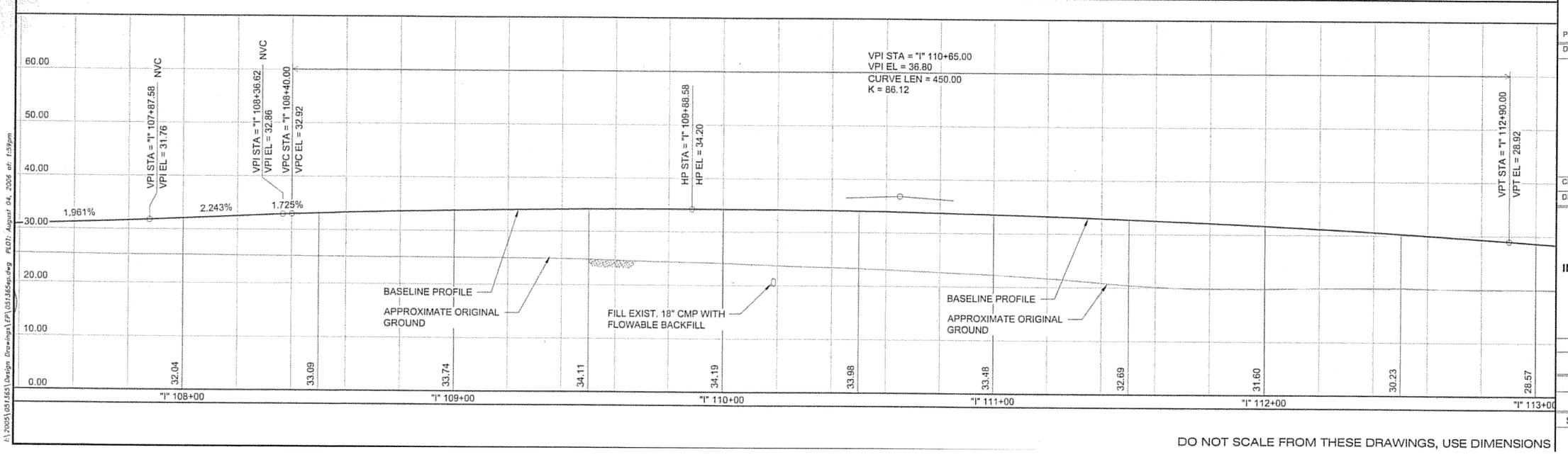
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F13	269

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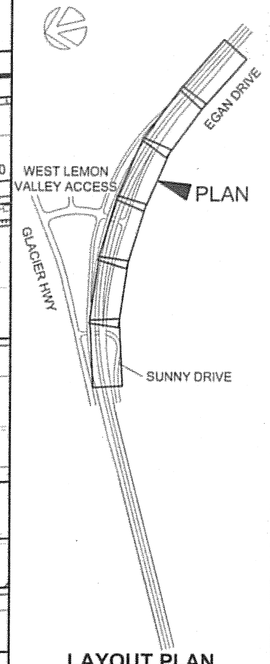


DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Southbound Ramps "I" Sta. 110+00 to 115+00

PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F14	269

F:\2005\051651\Design Drawings\EPI\051865ep.dwg PLOT: August 04, 2006 at: 1:59pm

RELOCATED EAST CREEK, SEE SHEET U8

MENDENHALL WETLANDS STATE GAME REFUGE

EQUATION POINT
STA. "I" 114+60.23
STA. "G" 17+01.61

PI = "I" 114+60.23

RETAINING WALL "A"
SEE SHEETS M1 & M2

R/W

PC = "I" 117+91.03

"I" 113+00 | N 59°12'05" W - 247.11' | "I" 114+00 | "I" 115+00 | "I" 116+00 | N 60°42'05" W - 330.80' | "I" 117+00 | "I" 118+00

SOUTHBOUND EXIT RAMP

P-7 | P-8 | P-10 | S-6 | S-8 | P-21 | S-19 | P-9 | P-11 | S-7

WEST LEMON VALLEY ACCESS

BRIDGE No. 2194

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

NORTHBOUND LANES

EDGE OF TRAVELED WAY

VPI STA = "I" 114+05.00
VPI EL = 24.90
CURVE LEN = 70.67
K = 12.87

VPI STA = "I" 115+17.00
VPI EL = 24.86
CURVE LEN = 73.89
K = 12.54

VPT STA = "I" 112+90.00
VPT EL = 28.92

VPC STA = "I" 113+69.67
VPC EL = 26.14

LP STA = "I" 114+14.71
LP EL = 25.35

VPT STA = "I" 114+40.34
VPT EL = 25.60

VPI STA = "I" 114+60.23 NVC
VPI EL = 26.00

VPC STA = "I" 114+80.06
VPC EL = 25.60

LP STA = "I" 115+05.24
LP EL = 25.35

VPT STA = "I" 115+53.95
VPT EL = 26.29

-3.500% | 1.992% | -2.008% | 3.883%

0 P-8

℄ WEST LEMON VALLEY ACCESS

EAST CREEK
120"Ø CAP
P-11

BASELINE PROFILE

APPROXIMATE ORIGINAL GROUND

28.57 | 25.43 | 25.36 | 26.15 | 28.08 | 31.97 | 35.85

"I" 113+00 | "I" 114+00 | "I" 115+00 | "I" 116+00 | "I" 117+00 | "I" 118+00

60.00 | 50.00 | 40.00 | 30.00 | 20.00 | 10.00 | 0.00

HYDROLOGIC AND HYDRAULIC SUMMARY
P-11

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	270 CFS	300 CFS	380 CFS
DESIGN HIGH WATER ELEVATION	25.10 FEET MLLW		

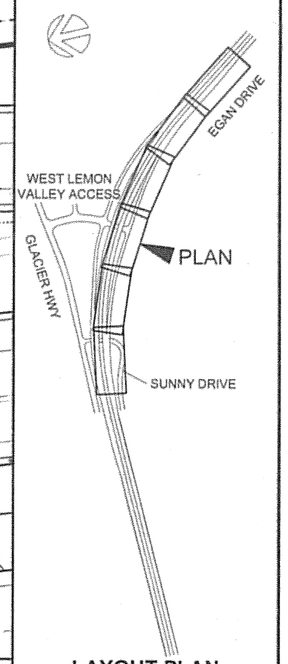
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Southbound Ramps
"I" Sta. 115+00 to 120+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F15	269

I:\2005\051563\Design Drawings\CPI\051563sp.dwg PLOT: August 04, 2006 at: 1:59pm

MENDENHALL WETLANDS STATE GAME REFUGE

WETLANDS RESTORATION, SEE SHEET F31

RELOCATED WEST CREEK, SEE SHEET U10

RETAINING WALL "D" SEE SHEET M5

SEE "OUTFALL PROTECTION" DETAIL ON SHEET J3

RETAINING WALL "A" SEE SHEETS M1 & M2

R/W

"I" CURVE DATA
D = 18°45'11"
R = 1,900.00'
L = 621.87'
T = 313.74'

PC = "I" 117+91.03

"I" 118+00

SOUTHBOUND EXIT RAMP

"I" 119+00

"I" 120+00

RETAINING WALL "B" SEE SHEET M3

"I" 121+00

"I" 122+00

"I" 123+00

P-12

P-13

S-13

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

S-9

EDGE OF TRAVELED WAY

NORTHBOUND LANES

VPI STA = "I" 121+00.00
VPI EL = 47.50
CURVE LEN = 386.11
K = 91.42

VPC STA = "I" 119+06.95
VPC EL = 40.00

HP STA = "I" 122+61.95
HP EL = 46.90

VPT EL = 46.84
VPT STA = "I" 122+93.06

-0.340%

VPI STA = "I" 123+43.94
VPI EL = 46.67

NVC

BASELINE PROFILE

APPROXIMATE ORIGINAL GROUND

60.00
50.00
40.00
30.00
20.00
10.00
0.00

35.85 39.73 41.57 43.14 44.44 45.46 46.21 46.69 46.89 46.

"I" 118+00 "I" 119+00 "I" 120+00 "I" 121+00 "I" 122+00 "I" 123+00

P-12

WEST CREEK
120"Ø CAP
P-13

HYDROLOGIC AND HYDRAULIC SUMMARY
P-13

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	170 CFS	190 CFS	250 CFS
DESIGN HIGH WATER ELEVATION	24.29 FEET MLLW		

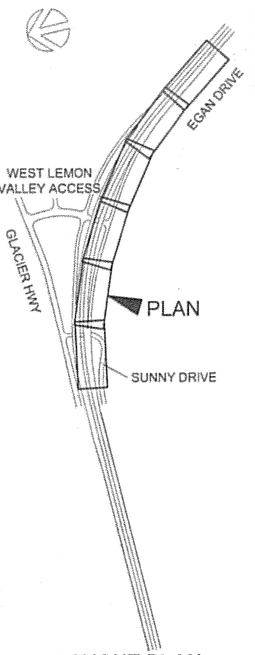
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1/4/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

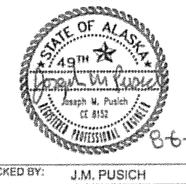
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN



8-6-a

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

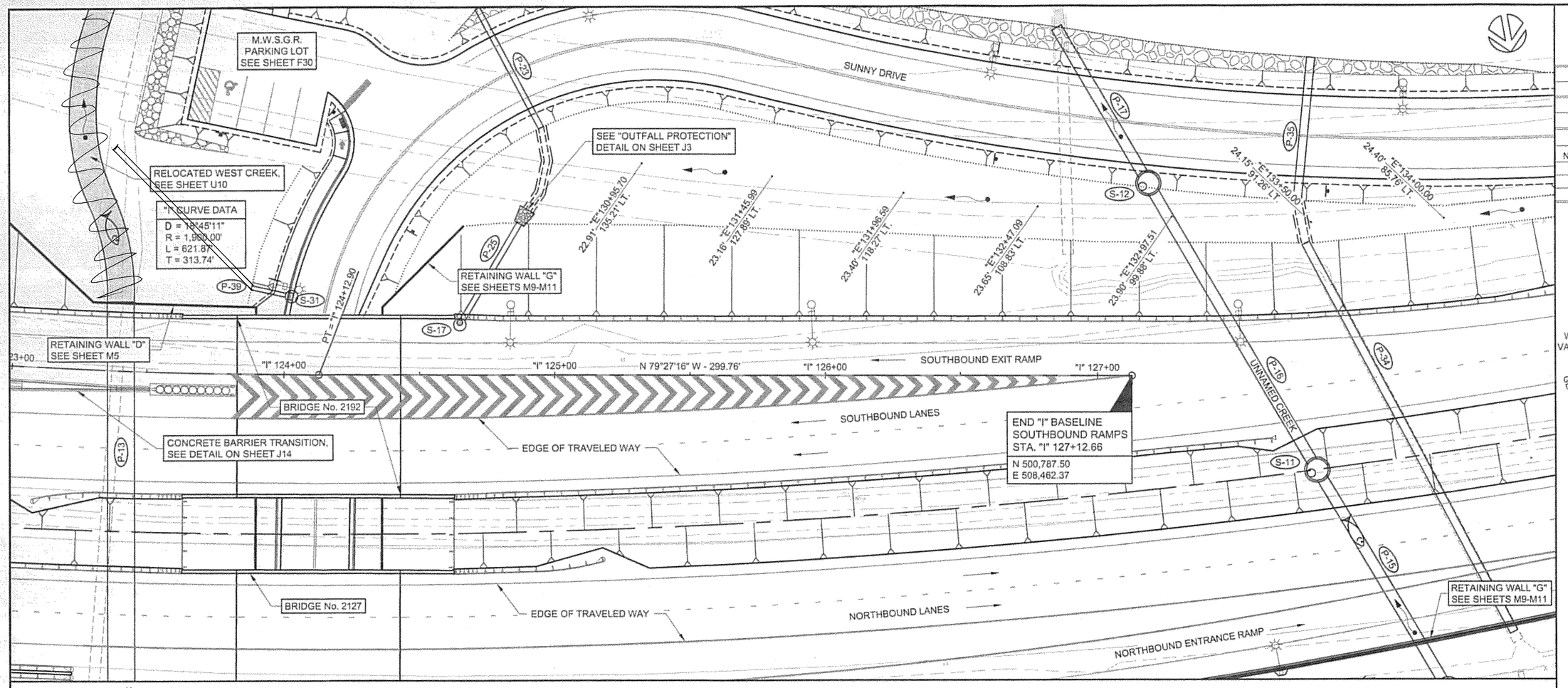
Southbound Ramps
"I" Sta. 120+00 to 125+50
PLAN & PROFILE

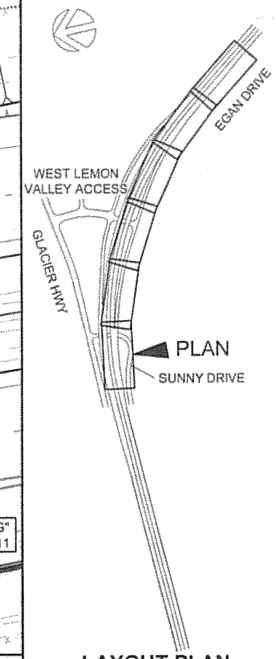
PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F16	269

I:\2005\051163\Design Drawings\EPL\051363sp_dwg PLOT: August 04, 2006 at: 1:59pm





ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-6-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Southbound Ramps
"I" Sta. 125+50 to 128+77.02
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F17	269

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/4/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

I:\20051\051651\Design Drawings\EPI\051651s0.dwg PLOT: August 04, 2006 at: 2:00pm

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

EDGE OF TRAVELED WAY

NORTHBOUND LANES

"O" 101+00

N 31°28'59" W - 196.38'

"O" 102+00

PC = "O" 101+96.38

NORTHBOUND EXIT RAMP

"O" 103+00

"O" 104+00

P-2

P-3

BEGIN "O" BASELINE
NORTHBOUND RAMPS
STA. "O" 100+00.00

N 499,709.11
E 510,536.96

BORROW PIT POND

R/W

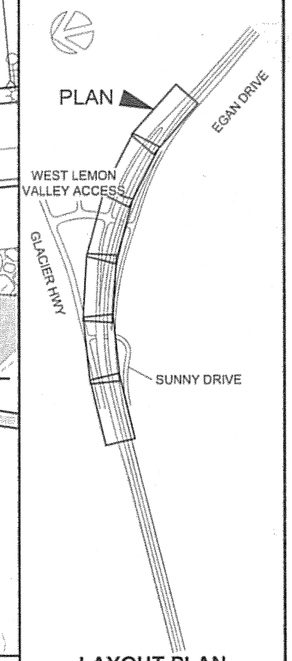
R/W

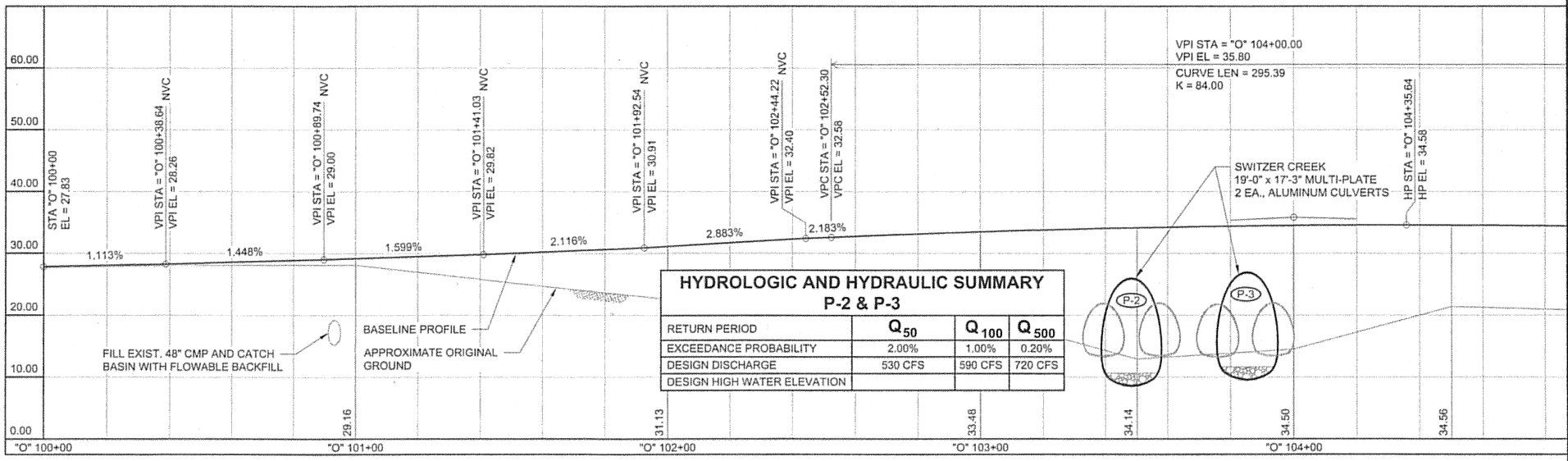
"O" CURVE DATA

Δ = 27°43'06"
R = 1,800.00'
L = 870.80'
T = 444.09'

SWITZER CREEK

DOT&PF WETLAND
CONSERVATION AREA





HYDROLOGIC AND HYDRAULIC SUMMARY
P-2 & P-3

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	530 CFS	590 CFS	720 CFS
DESIGN HIGH WATER ELEVATION			

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
PROFESSIONAL ENGINEER

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Northbound Ramps
"O" Sta. 100+00 to 104+50
PLAN & PROFILE

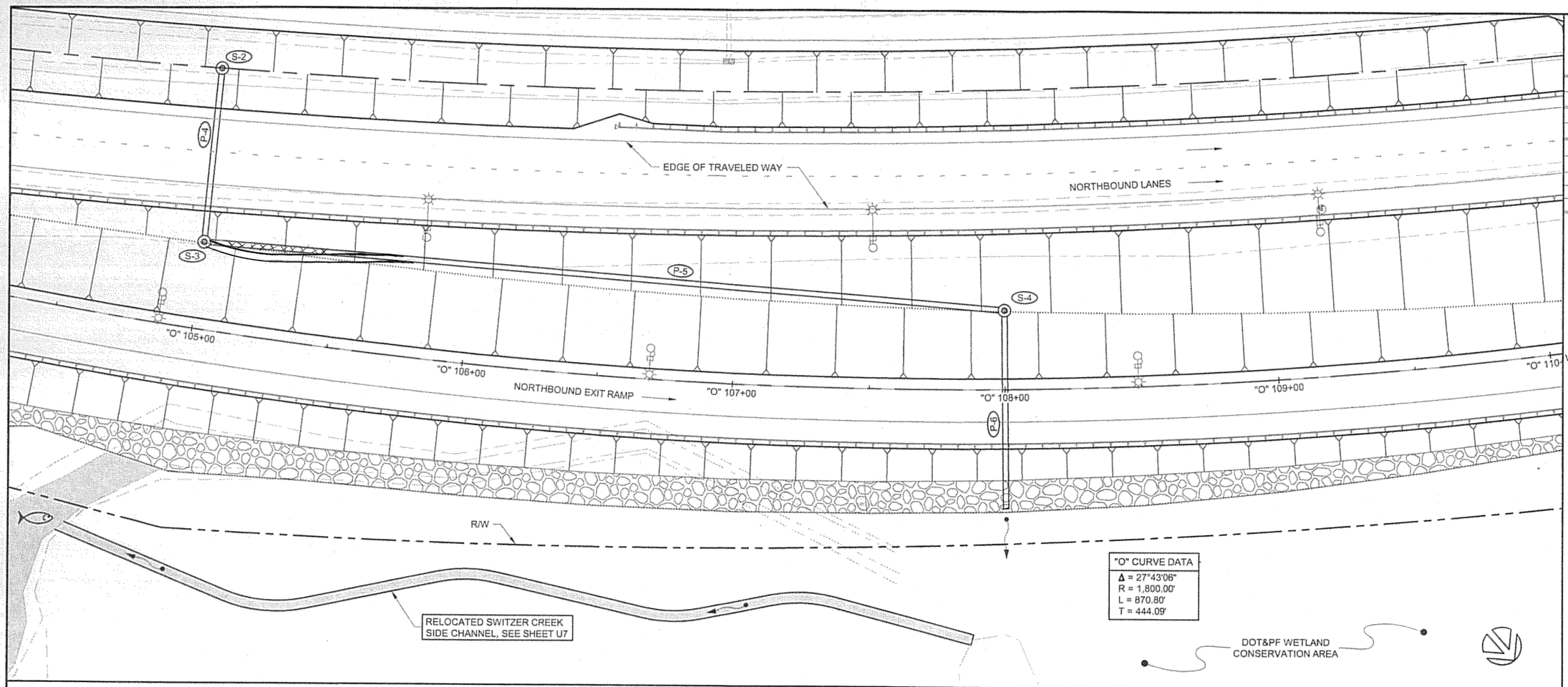
PROJECT DESIGNATION NUMBER

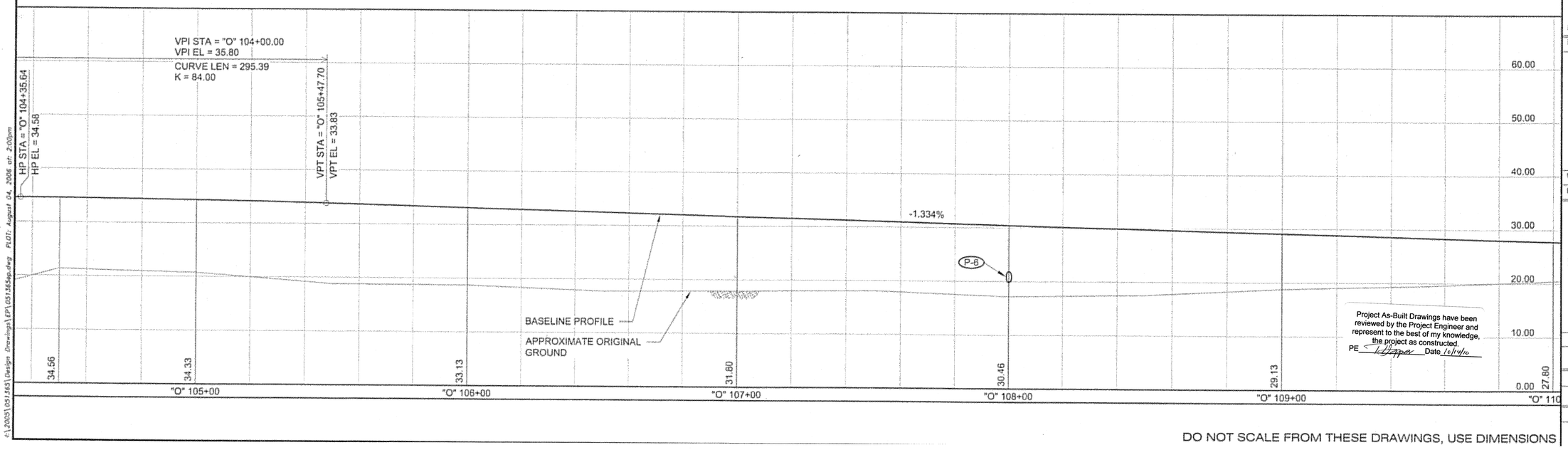
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F18	269

I:\2005\051365\Design Drawings\FP\051365sp.dwg PLOT: August 04, 2006 at: 2:00pm





Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

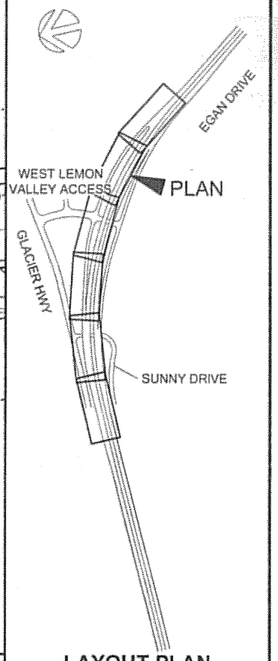
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Northbound Ramps
"O" Sta. 104+50 to 110+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F19	269

E:\2005\051651\Design Drawings\EPL051654sp.dwg PLOT: August 04, 2006 at: 2:00pm

MENDENHALL WETLANDS STATE GAME REFUGE

R/W

"E" CURVE DATA
Δ = 55°31'56"
R = 2,750.00
L = 2,665.35'
T = 1,447.83'

INSTALL PRIMARY MONUMENT, SEE SHEET A4

SOUTHBOUND ENTRANCE RAMP

EDGE OF TRAVELED WAY

SOUTHBOUND LANES

P-1

PC = "E" 108+62.08

"E" 105+00 "E" 106+00 "E" 107+00 "E" 108+00 "E" 109+00 "E" 110+00

N 35°28'59" W - 862.08'

S-1

OVERHEAD SIGN AND BASE STRUCTURE, SEE "P" SHEETS

FILL EXIST. 48" CMP AND CATCH BASIN WITH FLOWABLE BACKFILL

NORTHBOUND LANES

EDGE OF TRAVELED WAY

NORTHBOUND EXIT RAMP

STA. "E" 106+89.71
53.00' RT.

R/W

BORROW PIT POND

VPI STA = "E" 111+00.00
VPI EL = 28.00
CURVE LEN = 645.29
K = 238.62

VPC STA = "E" 107+77.35
VPC EL = 27.56

INSIDE SHOULDER PROFILE

MEDIAN PROFILE

0.136%

APPROXIMATE ORIGINAL GROUND

FILL EXIST. 48" CMP AND CATCH BASIN WITH FLOWABLE BACKFILL

60.00 50.00 40.00 30.00 20.00 10.00 0.00

27.19 27.32 27.46 27.60 27.77 28.04 28.42 28.90

"E" 105+00 "E" 106+00 "E" 107+00 "E" 108+00 "E" 109+00 "E" 110+00

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

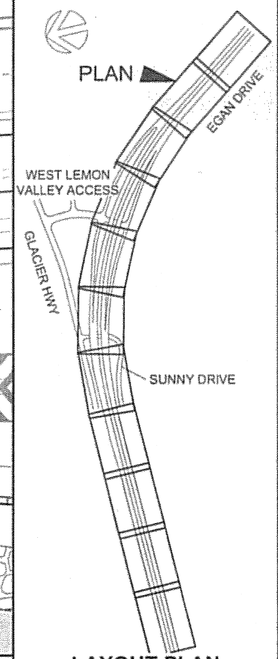
ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8132 REGISTERED PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Egan Drive "E" Sta. 105+00 to 110+00

PLAN & PROFILE

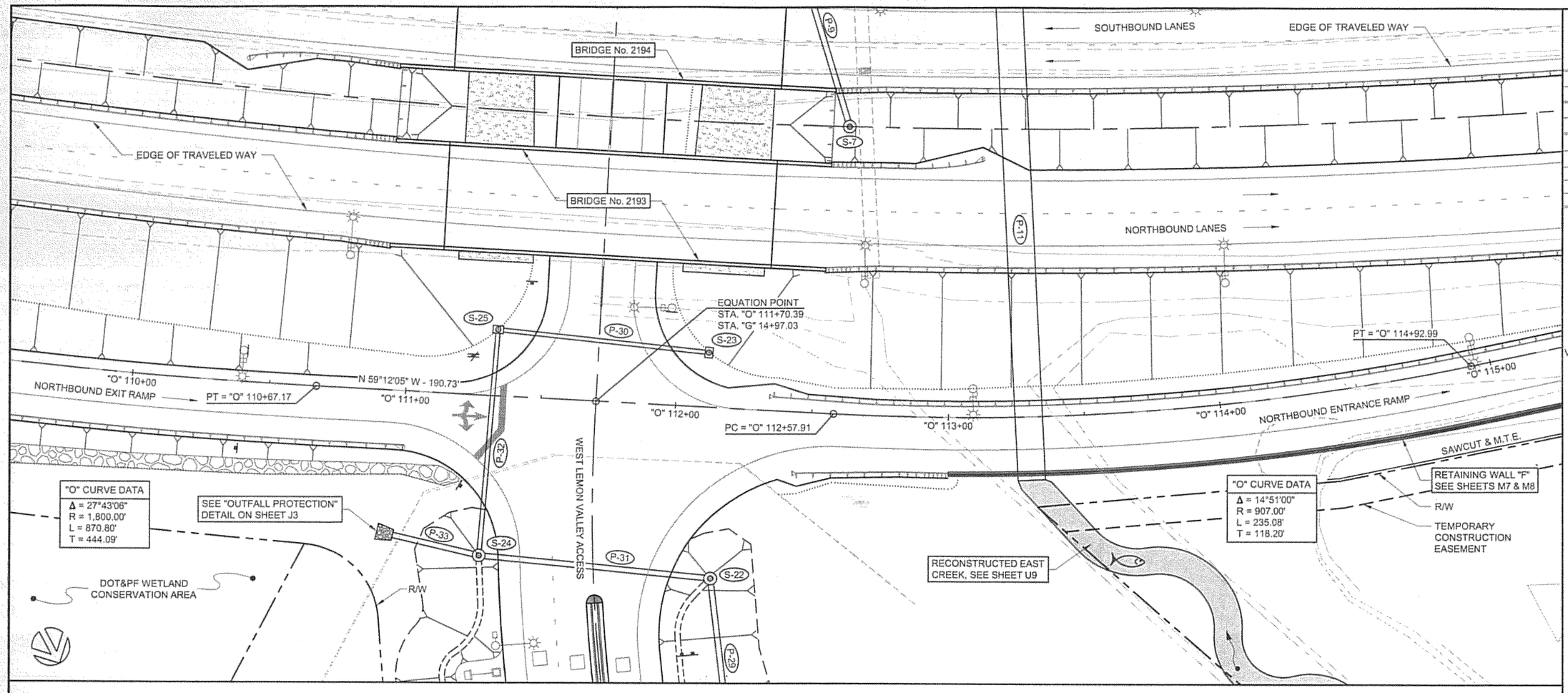
PROJECT DESIGNATION NUMBER

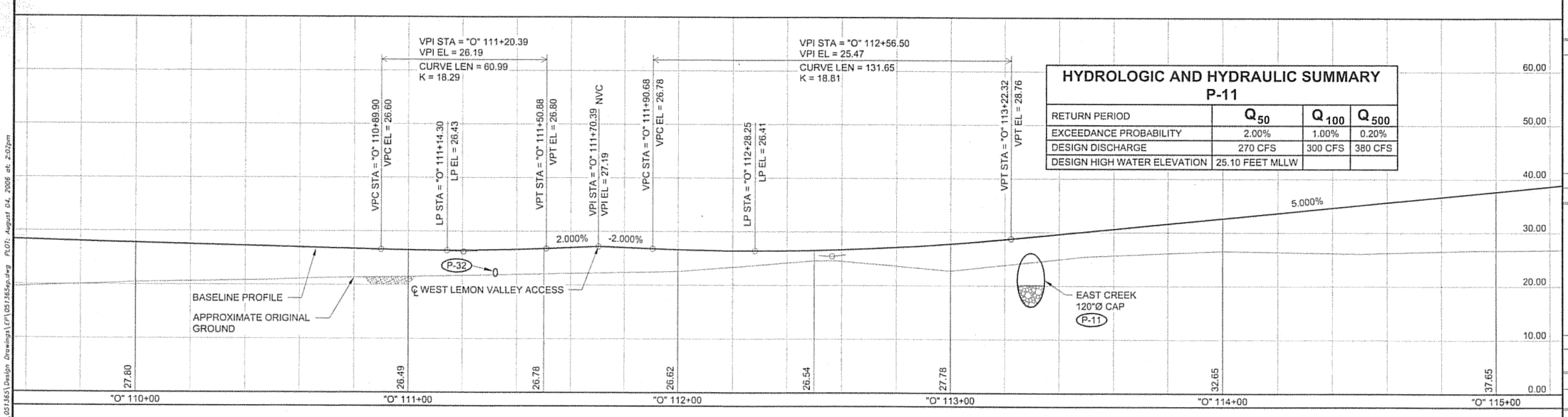
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F2	269

z:\2005\051653\Design Drawings\FP\051653fpp.dwg PLOT: August 04, 2006 at: 1:58pm





HYDROLOGIC AND HYDRAULIC SUMMARY
P-11

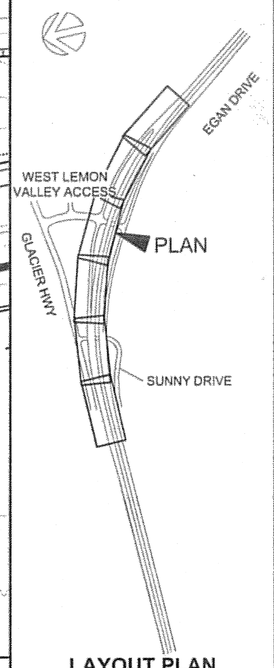
RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	270 CFS	300 CFS	380 CFS
DESIGN HIGH WATER ELEVATION	25.10 FEET MLLW		

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 04-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Northbound Ramps
"O" Sta. 110+00 to 115+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F20	269

Z:\2005\051165\Design Drawings\[F1051165sp.dwg PLOT: August 04, 2006 at: 2:02pm

EDGE OF TRAVELED WAY

RETAINING WALL "B"
SEE SHEET M3

SOUTHBOUND LANES

R-12

EDGE OF TRAVELED WAY

RETAINING WALL "E"
SEE SHEET M6

NORTHBOUND LANES

SEE SHEET J13 FOR BARRIER TRANSITION DETAIL

SEE SHEET J13 FOR BARRIER TRANSITION DETAIL

"O" CURVE DATA
Δ = 5°12'16"
R = 2,810.00
L = 255.24'
T = 127.71'

"O" 115+00 | "O" 116+00 | N 74°03'06" W - 423.53' | "O" 117+00 | "O" 118+00 | "O" 119+00 | PC = "O" 119+16.51 | "O" 120+00

NORTHBOUND ENTRANCE RAMP

SAWCUT & M.T.E.

RETAINING WALL "F"
SEE SHEETS M7 & M8

R/W

TEMPORARY CONSTRUCTION EASEMENT

R/W

ABANDON EXIST. SSMH & EXIST. 12" AC PIPES IN PLACE

SEE SHEET F32 FOR NEW SEWER WORK

PARTY ZONE

PARTY ZONE (CANOPY)

VPI STA = "O" 118+00.00
VPI EL = 52.65
CURVE LEN = 512.52
K = 94.72

VPC STA = "O" 115+43.74
VPC EL = 39.83

BASELINE PROFILE

APPROXIMATE ORIGINAL GROUND

HP STA = "O" 120+17.45
HP EL = 51.68

60.00 | 50.00 | 40.00 | 30.00 | 20.00 | 10.00 | 0.00

37.65 | 40.15 | 42.48 | 44.55 | 46.36 | 47.90 | 49.18 | 50.20 | 50.95 | 51.44 | 51.66

"O" 115+00 | "O" 116+00 | "O" 117+00 | "O" 118+00 | "O" 119+00 | "O" 120+00

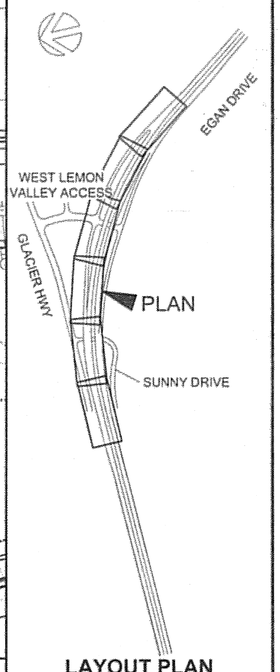
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A:\2005\051363\Design Drawings\LP\051363sp.dwg PLOT: August 04, 2006 at: 2:02pm

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN



CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

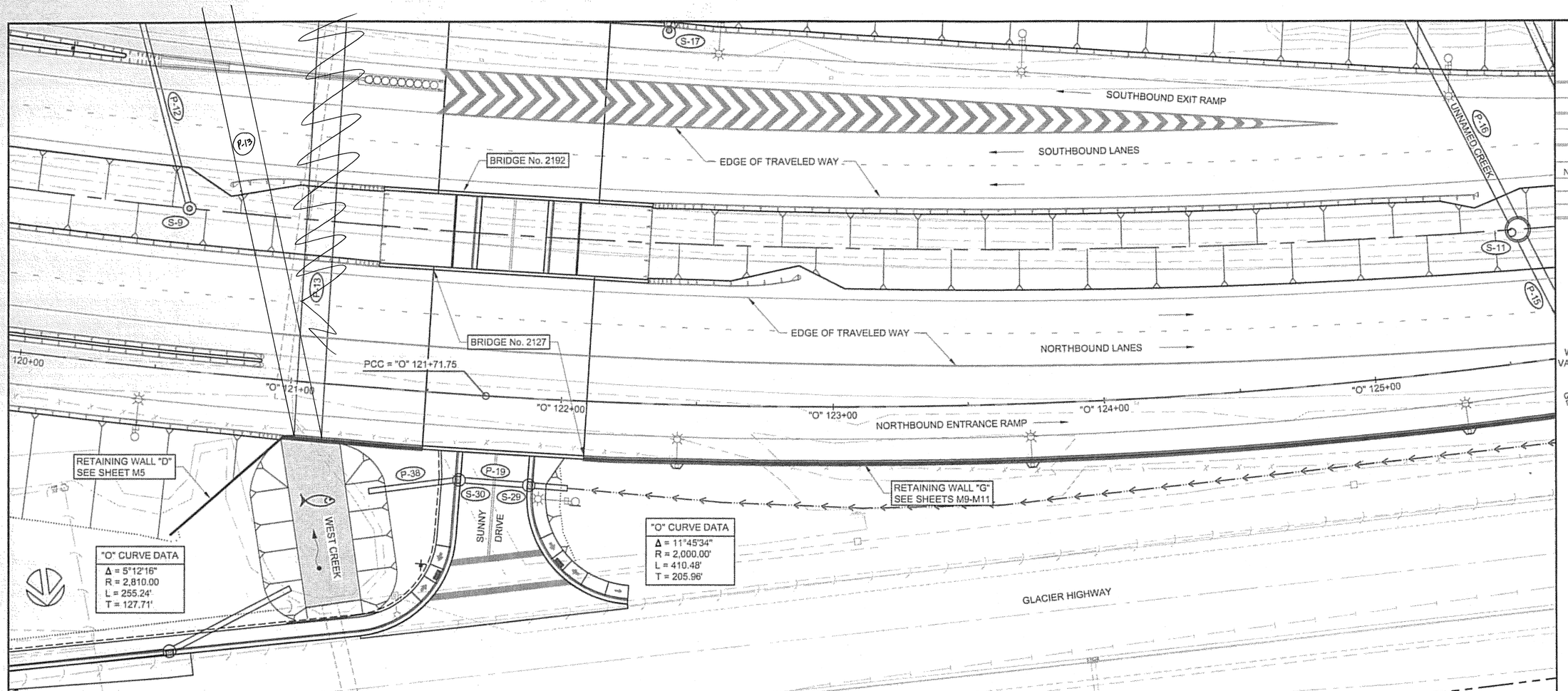
Northbound Ramps "O" Sta. 115+00 to 120+00
PLAN & PROFILE

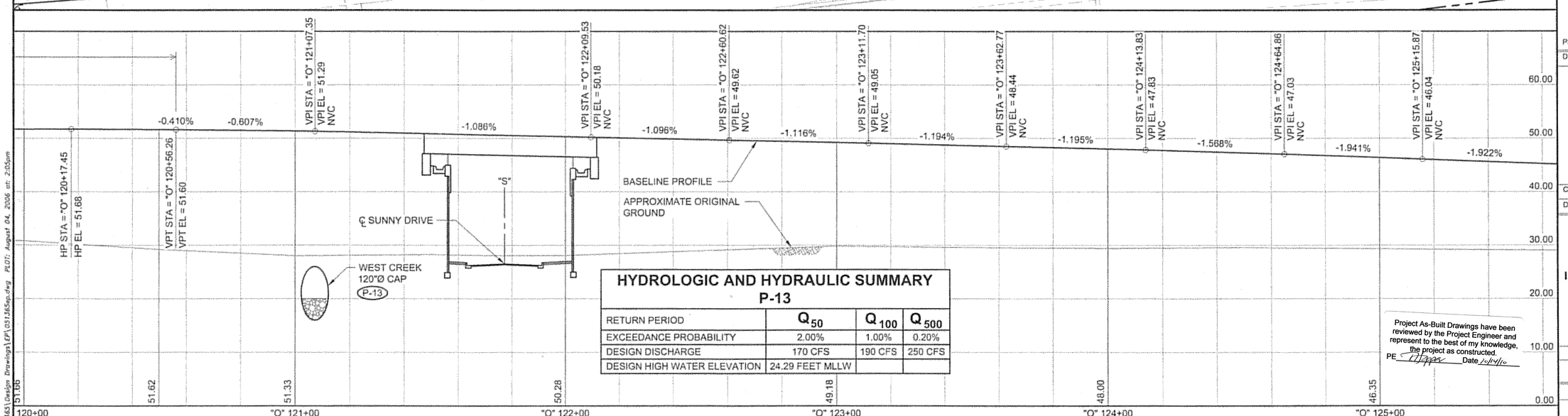
PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F21	269





HYDROLOGIC AND HYDRAULIC SUMMARY
P-13

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	170 CFS	190 CFS	250 CFS
DESIGN HIGH WATER ELEVATION	24.29 FEET MLLW		

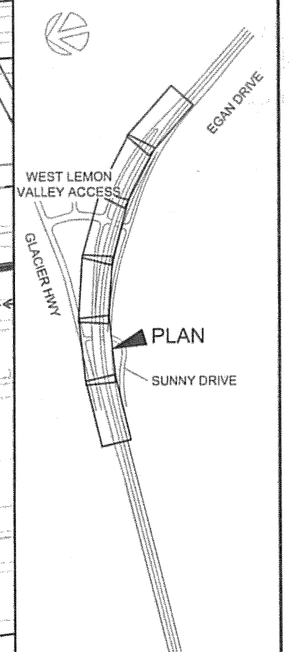
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
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RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8132 — 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Northbound Ramps "O" Sta. 120+00 to 125+50

PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F22	269

E:\2005\051353\Design Drawings\EPI_051353ec.dwg PLOT: August 04, 2006 at: 2:05pm

RETAINING WALL "C"
SEE SHEET M4

BEGIN CONCRETE BARRIER
"E"136+35.00, 51.00' LT.
SEE SHEETS J4 & J12

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

P-34 P-18 P-16 S-11 S-13

END "O" BASELINE
NORTHBOUND RAMPS
STA. "O" 130+72.49
N 500,874.67
E 507,888.05

NORTHBOUND LANES

EDGE OF TRAVELED WAY

PT. = "O" 125+82.23

S 88°59'05" W - 490.26'

"O" 126+00 "O" 127+00 "O" 128+00 "O" 129+00 "O" 130+00

NORTHBOUND ENTRANCE RAMP

C P-15 UNNAMED CREEK

RETAINING WALL "G"
SEE SHEETS M9-M11

S-10

11.7 13.8

Concrete Elec Vault Base

EXIST. SSMH
LID EL.=27.77'
S. 8" PVC I.E.=13.25'
N.W. 6" PVC I.E.=20.58'

SEE SHEETS B16 & F29 FOR
MORE DETAILED INFORMATION

P-14

EXIST. SEWER LIFT
STATION

GLACIER HIGHWAY

DOT&PF
DRIVEWAY

VPI STA = "O" 125+66.86
VPI EL = 45.06
NVC

VPI STA = "O" 126+17.79
VPI EL = 44.14
NVC

VPI STA = "O" 126+68.65
VPI EL = 43.28
NVC

VPI STA = "O" 127+19.45
VPI EL = 42.46
NVC

VPI STA = "O" 127+69.88
VPI EL = 41.65
NVC

VPI STA = "O" 128+19.88
VPI EL = 40.85
NVC

VPI STA = "O" 128+69.88
VPI EL = 40.12
NVC

VPI STA = "O" 129+19.88
VPI EL = 39.59
NVC

VPI STA = "O" 129+69.88
VPI EL = 39.16
NVC

VPI STA = "O" 130+19.88
VPI EL = 38.84
NVC

EOP STA = "O" 130+72.49
EOP EL = 38.63
NVC

-1.806% -1.691% -1.614% -1.606% -1.600% -1.460% -1.060% -0.860% -0.640% -0.399%

60.00 50.00 40.00 30.00 20.00 10.00 0.00

REMOVE AND DISPOSE
OF EXIST. 48" CMP

P-34

UNNAMED CREEK
48"Ø CAP

P-15

APPROX. EXIST.
ELECTRICAL CONDUIT

INSTALL (2) 4" SCHD.
80 PVC CONDUITS

INSTALL 18" CPP FOR FUTURE
WATER LINE INSTALLATION

EXIST. 8" DIP WATER
LINE INSIDE 18" CMP

BASELINE PROFILE

APPROXIMATE ORIGINAL
GROUND

44.46 42.77 41.17 39.80 38.97

"O" 126+00 "O" 127+00 "O" 128+00 "O" 129+00 "O" 130+00 "O" 131+00

HYDROLOGIC AND HYDRAULIC SUMMARY
P-14, P-15, P-16 & P-17

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	11 CFS	13 CFS	16 CFS
DESIGN HIGH WATER ELEVATION	19.39 FEET MLLW		

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

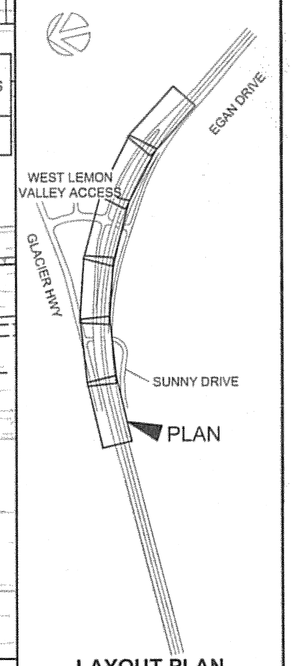
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ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Northbound Ramps
"O" Sta. 125+50 to 130+72.49
PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F23	269

R/W

GLACIER HIGHWAY

IND

SAWCUT AND REMOVE EXISTING PAVEMENT AT R/W LINE

PROTECT AND MAINTAIN EXIST. UTILITY POLE

SAWCUT

R/W

STA. "G" 12+23.83
59.00' LT.

SAWCUT & M.T.E.

SAWCUT

DOT&PF WETLAND CONSERVATION AREA

AUTOMATIC TRAFFIC RECORDING DEVICE, SEE "Q" SHEETS FOR DETAILS & LAYOUT INFORMATION

S-20

STA. "G" 12+76.02
59.00' LT.

STA. "G" 13+06.87
42.00' LT.

STA. "G" 10+82.04
42.00' LT.

WEST LEMON VALLEY ACCESS

"G" 12+00

"G" 13+00

"G" 11+00

STA. "G" 10+60.00
BEGIN MEDIAN

P-28

P-33

S-24

P-32

SAWCUT & M.T.E.

S 08°23'19" E - 76.78'

PC = "G" 10+76.78

"G" 14+00

R/W

S-21

STA. "G" 14+25.00
END MEDIAN

P-31

P-29

STA. "G" 10+82.50
30.00' RT.

S-22

BEGIN "G" BASELINE
WEST LEMON
VALLEY ACCESS
STA. "G" 10+00.00

N 501,014.72
E 509,804.41

LIMITS OF PAVEMENT AND CURB REMOVAL

"G" CURVE DATA
Δ = 39°11'14"
R = 600.00'
L = 410.37'
T = 213.57'

EGAN DRIVE

WEST LEMON VALLEY ACCESS

GLACIER HWY

PLAN

SUNNY DRIVE

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

60.00
50.00
40.00
30.00
20.00
10.00
0.00

BEGIN PAVING
STA = "G" 10+24.00
EL = 33.67
FIELD VERIFY

VPC STA = "G" 11+20.28
VPC EL = 33.14

VPI STA = "G" 11+90.00
VPI EL = 32.75
CURVE LEN = 139.44
K = 80.00

VPT STA = "G" 12+59.72
VPT EL = 31.15

VPC STA = "G" 13+49.96
VPC EL = 29.08

VPI STA = "G" 14+10.00
VPI EL = 27.70
CURVE LEN = 120.08
K = 70.00

VPT STA = "G" 14+70.04
VPT EL = 27.35

-0.554%

-2.297%

BASELINE PROFILE

APPROXIMATE ORIGINAL GROUND

P-28

P-31

33.25
32.92
32.30
31.37
30.22
29.07
28.10
27.49

"G" 10+00
"G" 11+00
"G" 12+00
"G" 13+00
"G" 14+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/4/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
10-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

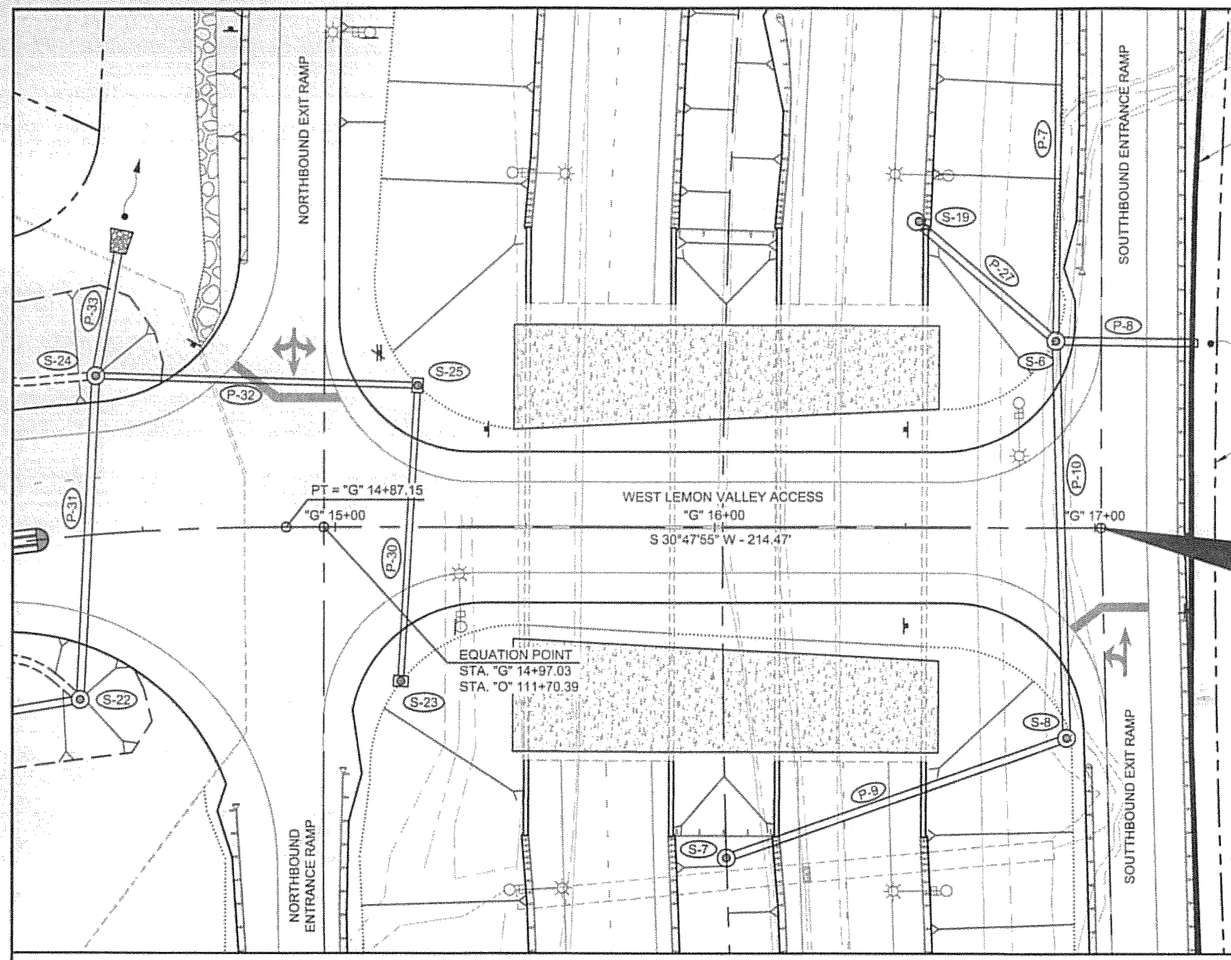
West Lemon Valley Access
"G" Sta. 10+00 to 14+50
PLAN & PROFILE

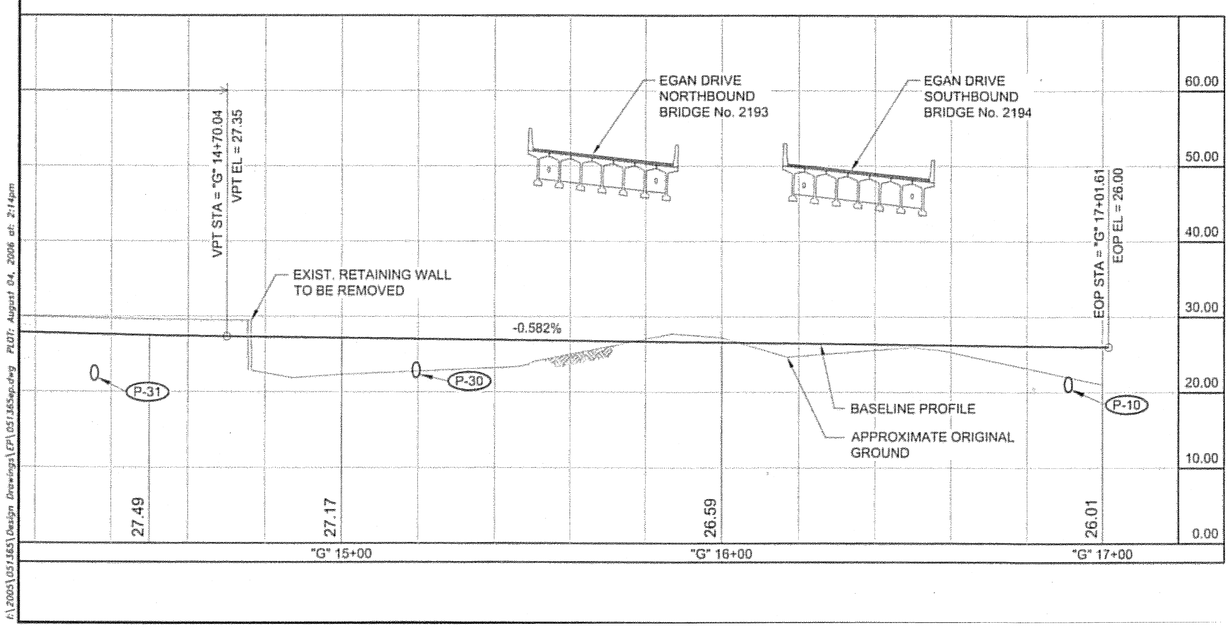
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

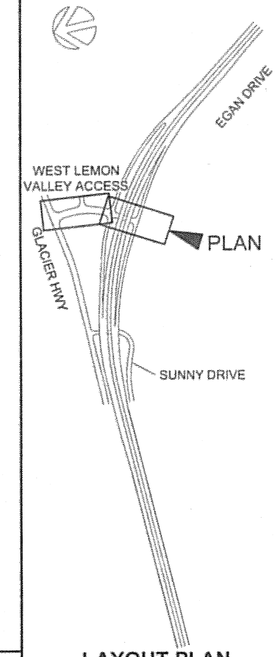
STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F24	269

Plot Date: August 04, 2006 at: 2:14pm







ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8153
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

West Lemon Valley Access
"G" Sta. 14+50 to 17+01.61
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F25	269

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A:\2005\051383\Design Drawings\CP\051383ep.dwg PLOT: August 04, 2006 at: 2:14pm

RETAINING WALL "D"
SEE SHEET M5

WEST CREEK

RELOCATED WEST CREEK,
SEE SHEET U10

REMOVE EXIST. CULVERT
SEE TABLE ON SHEET D2

RETAINING WALL "D"
SEE SHEET M5

M.W.S.G.R.
PARKING LOT
SEE SHEET F30

SAWCUT & M.T.E.

"S" 11+00 SUNNY DRIVE "S" 12+00

S 11°26'52" W - 224.66'

PC = "S" 12+24.66

"S" 13+00

R/W

BEGIN "S" BASELINE
SUNNY DRIVE
STA. "S" 10+00.00

N 500,951.62
E 508,801.78

GLACIER HIGHWAY

RETAINING WALL "G"
SEE SHEETS M9-M11

RETAINING WALL "G"
SEE SHEETS M9-M11

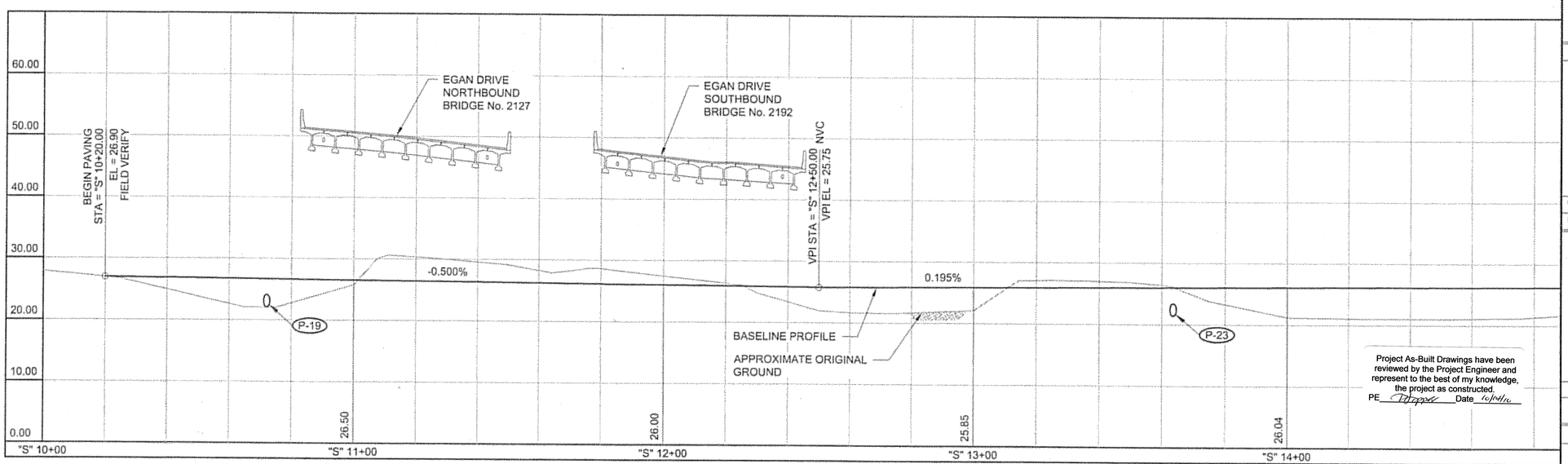
MENDENHALL WETLANDS
STATE GAME REFUGE

"S" 14+00

"S" CURVE DATA

Δ = 103°45'39"
R = 125.00'
L = 226.37'
T = 159.31'

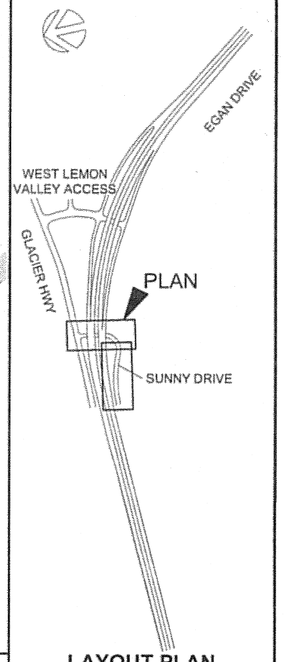
S-9 P-13 P-13 P-38 S-30 P-19 S-29 P-40 S-31 P-39 S-17 P-25 P-23



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/04/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
10-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Sunny Drive
"S" Sta. 10+00 to 14+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F26	269

A:\2005\051365\Design Drawings\EPI 051365sp.dwg PLOT: August 04, 2006 at: 2:17pm

MENDENHALL WETLANDS STATE GAME REFUGE

UNNAMED CREEK

PRC = "S" 14+51.03

R/W

"S" CURVE DATA
Δ = 25°12'32"
R = 1,000.00
L = 439.98'
T = 223.61'

END "S" BASELINE
SUNNY DRIVE
STA. "S" 18+91.00
N 500,738.38
E 508,155.52

STA. "S" 18+40.24
15.00' LT.

STA. "S" 18+41.74
15.00' RT.

SAWCUT & M.T.E.

"S" 14+00
"S" 15+00
"S" 16+00
"S" 17+00
"S" 18+00

SUNNY DRIVE

P-23
P-35
P-17
P-16
P-34
P-18

S-12
S-13

SEE SHEET F17
FOR GRADING INFORMATION
IN THIS AREA

RETAINING WALL "C"
SEE SHEET M4

SOUTHBOUND LANES

SOUTHBOUND EXIT RAMP

0.195%

EOP STA = "S" 18+91.00
EOP EL = 27.00

BASELINE PROFILE
APPROXIMATE ORIGINAL GROUND

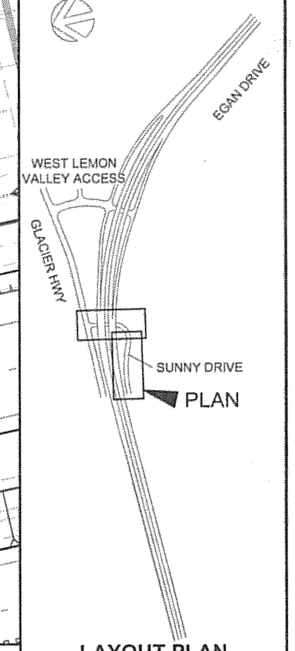
UNNAMED CREEK
48"Ø CMP
P-17

26.04
26.24
26.43
26.63
26.82

60.00
50.00
40.00
30.00
20.00
10.00
0.00

"S" 14+00
"S" 15+00
"S" 16+00
"S" 17+00
"S" 18+00
"S" 19+00

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS



ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Sunny Drive
"S" Sta. 14+00 to 18+91.00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F27	269

A:\2005\051365\Design Drawings\[F\051365sp.dwg PLOT: August 04, 2006 at: 2:18pm

PARTY ZONE

R/W

EAST CREEK

REMOVE AND DISPOSE 60 L.F. OF EXIST. METAL HANDRAIL AND FOOTINGS

N-500,946.68, E-509,517.75
BEGIN ASPHALT SIDEWALK REMOVAL AND REPLACEMENT, SAWCUT & M.T.E.

N-500,946.61, E-509,505.15
BEGIN TYPE I CURB & GUTTER AND ASPHALT REMOVAL AND REPLACEMENT

REMOVE AND DISPOSE EXIST. (2) 48" CMP INCLUDING CONCRETE HEADWALLS, SANDBAGS AND RIPRAP AT EACH END

N-500,991.48, E-509,498.91
BEGIN TYPE I CURB & GUTTER AND ASPHALT REMOVAL AND REPLACEMENT

N-500,995.32, E-509,513.19
BEGIN ASPHALT SIDEWALK REMOVAL AND REPLACEMENT, SAWCUT & M.T.E.

SAWCUT & M.T.E.

SAWCUT & M.T.E.

P-22

N-500,932.41, E-509,449.56
END ASPHALT SIDEWALK REMOVAL AND REPLACEMENT

N-500,932.16
E-509,447.45

R=10'

N-500,940.26
E-509,456.07

N-500,942.14, E-509,471.45
END ASPHALT REMOVAL AND REPLACEMENT

PROTECT AND MAINTAIN EXIST. 12" DIP PRESSURE SEWER

PROTECT AND MAINTAIN EXIST. 16" DIP WATER LINE

N-500,987.11, E-509,465.19
END TYPE I CURB & GUTTER AND ASPHALT REMOVAL AND REPLACEMENT

N-500,987.06, E-509,450.00
END ASPHALT SIDEWALK REMOVAL AND REPLACEMENT, SAWCUT & M.T.E.

REMOVE AND DISPOSE 60 L.F. OF EXIST. METAL HANDRAIL AND FOOTINGS

GLACIER HIGHWAY

"L" 311+00

"L" 312+00

R/W

PROTECT AND MAINTAIN EXIST. UTILITY POLE

N-500,927.40
E-509,409.77

R=10'

N-500,933.52
E-509,399.67

SAWCUT & M.T.E.

N-500,929.94
E-509,347.80

1
B18

EXIST. 16" DIP

R/W

HYDROLOGIC AND HYDRAULIC SUMMARY
P-22

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	270 CFS	300 CFS	380 CFS
DESIGN HIGH WATER ELEVATION	30.80 FEET MLLW		

NOTES:
1. SEE SHEET U4 FOR A SECTION OF EAST CREEK BOX CULVERT AND SEDIMENT BASIN WORK.
2. RELOCATE ALL EXISTING SIGNS AS NECESSARY FOR CONSTRUCTION OF NEW WORK.

MATCH LINE, THIS SHEET

PARTY ZONE

R/W

N-500,920.70
E-509,270.29

R=10'

N-500,927.86
E-509,279.69

N-500,920.37
E-509,232.29

R=10'

N-500,927.36
E-509,222.76

PROTECT AND MAINTAIN EXIST. UTILITY POLE

REMOVE AND DISPOSE OF EXIST. STOP SIGN

1
B18

N-500,927.41
E-509,138.37

EXIST. 12" DIP PRESSURE SEWER

"L"314+43.00
23.00' LT.

"L"314+43.00
18.00' LT.

S-27

P-36

N-500,927.47
E-509,037.46

SAWCUT & M.T.E.

"L" 313+00

ST "L"Sta=313+17.11

PC "L"STA=313+75.45

"L" 314+00

GLACIER HIGHWAY

S 89°54'27" W - 58.34'

NOTE:
RELOCATE ALL EXISTING SIGNS AS NECESSARY FOR CONSTRUCTION OF NEW WORK.

BASIS OF STATIONING
AS-BLT. P.T./A.P."L"313+17.11=
P.T."L"313+17.11 [RS-0955(1)]=
P.T."L"313+17.11 [FM-0955(3)]
N=500,950.51
E=509,196.94

EXIST. 16" DIP

EXIST. 20" DIP

R/W

MATCH LINE, SHEET F29

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

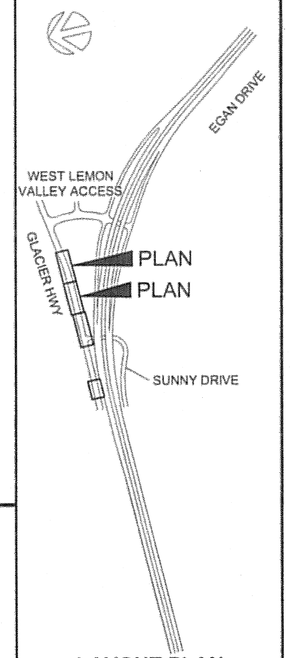
I:\2005\051363\Design Drawings\CP\051363sp.dwg PLOT: August 04, 2006 at: 2:18pm

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Glacier Highway
PLAN

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F28	269

MATCH LINE, SHEET F28

PROTECT AND MAINTAIN EXIST. UTILITY POLES, TYP.

1 B18

P-37

WEST CREEK

SUNNY DRIVE

S-28

P-36

SAWCUT & M.T.E.

SEE SHEET F32 FOR NEW SEWER WORK

"L"316+07.77
20.86' LT.

"L"316+07.76
12.54' LT.

EXIST. 12" DIP PRESSURE SEWER

"S"10+10.32
44.48' LT.

PROTECT AND MAINTAIN EXIST. UTILITY POLES, TYP.

SAWCUT & M.T.E.

"S"10+29.15
53.30' RT.

"L" 315+00

"L"C/L CURVE DATA
DELTA=00°37'20"
R=22,918.31'
L=248.84'
T=124.42'

EXIST. 12" ACP

"L" 316+00

PT "L" STA=316+24.28

GLACIER HIGHWAY

PROTECT AND MAINTAIN EXIST. 66"x51" ARCH PIPE

"L" 317+00

BEGIN "S" BASELINE
SUNNY DRIVE
STA. "S" 10+00

EXIST. 16" DIP

WAT MH

EXIST. 20" DIP

SCHNEIDER DRIVE

EGAN DRIVE

P-25

P-15

RETAINING WALL "G"
SEE SHEETS M9-M11

S-10

RELOCATE EXIST. 12" DIP PRESSURE SEWER IF NECESSARY FOR P-14 INSTALLATION

REMOVE AND DIPOSE OF EXIST. 24" CMP

EXIST. 12" DIP PRESSURE SEWER

N-500,935.50, E-508,375.93
BEGIN ASPHALT REMOVAL AND REPLACEMENT

N-500,935.86, E-508,335.93
END ASPHALT REMOVAL AND REPLACEMENT

GLACIER HIGHWAY

SAWCUT & M.T.E.

UNNAMED CREEK

P-14

SAWCUT & M.T.E.

NOTE:
SEE SHEETS B16 AND J3 FOR TYPICAL SECTION AND SEWER / WATER LINE RELOCATION DETAILS RESPECTIVELY.

"L" 321+00

RELOCATE EXIST. 20" DIP WATER MAIN IF NECESSARY FOR P-14 INSTALLATION

"L" 322+00

N 89°28'14" W - 1010.99'

N-500,974.43, E-508,375.77
BEGIN TYPE I CURB & GUTTER AND ASPHALT REMOVAL AND REPLACEMENT

N-500,974.72, E-508,335.77
END TYPE I CURB & GUTTER AND ASPHALT REMOVAL AND REPLACEMENT

EXIST. 20" DIP

PROTECT AND MAINTAIN EXIST. CATCH BASIN

REMOVE 10 L.F. OF EXIST. 18" CMP FOR P-14 INSTALLATION, INSTALL "OUTFALL PROTECTION" PER DETAIL ON SHEET J3

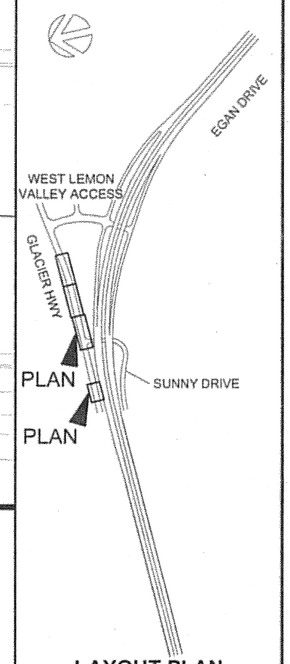
R/W

I:\2005\051563\Design Drawings\LP\051563sp.dwg PLOT: August 04, 2006 at: 2:18am

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152

84-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

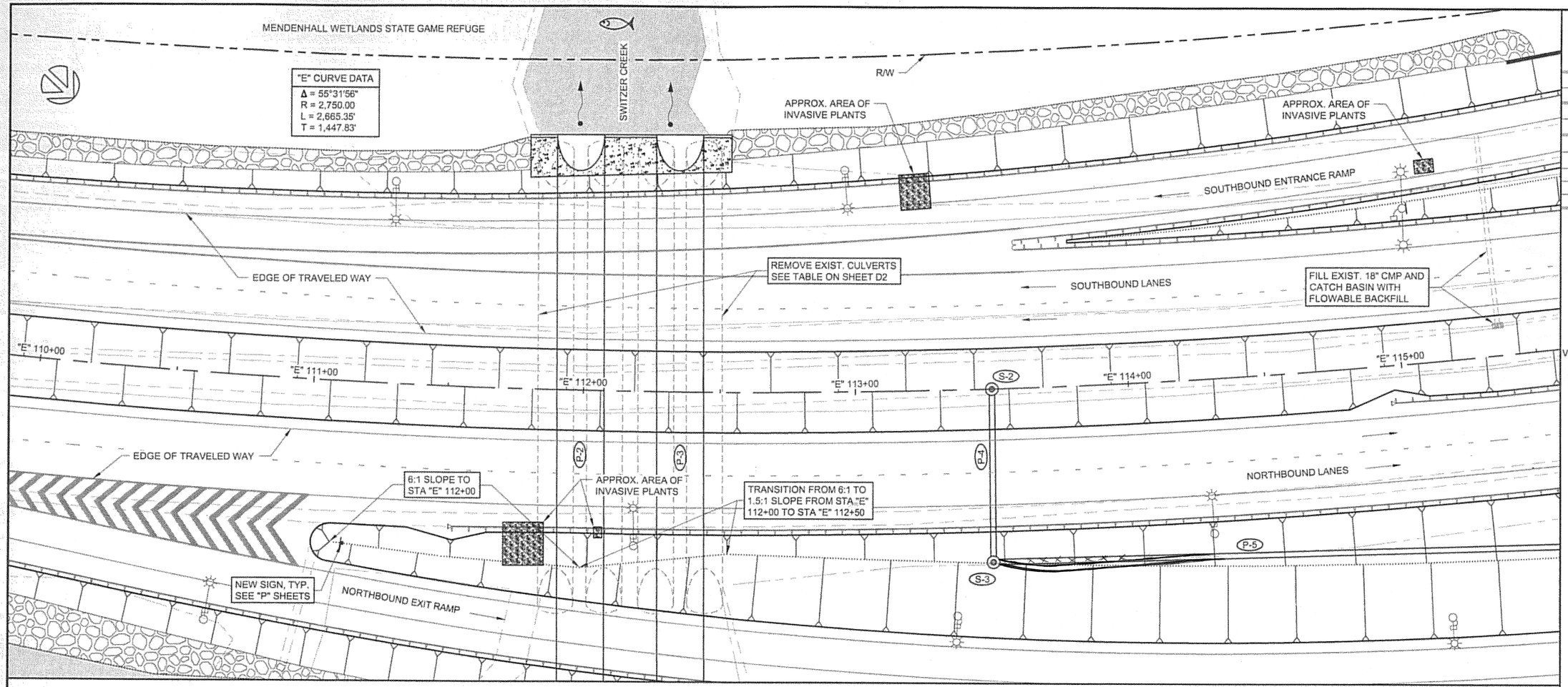
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Glacier Highway PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
F29	**269**

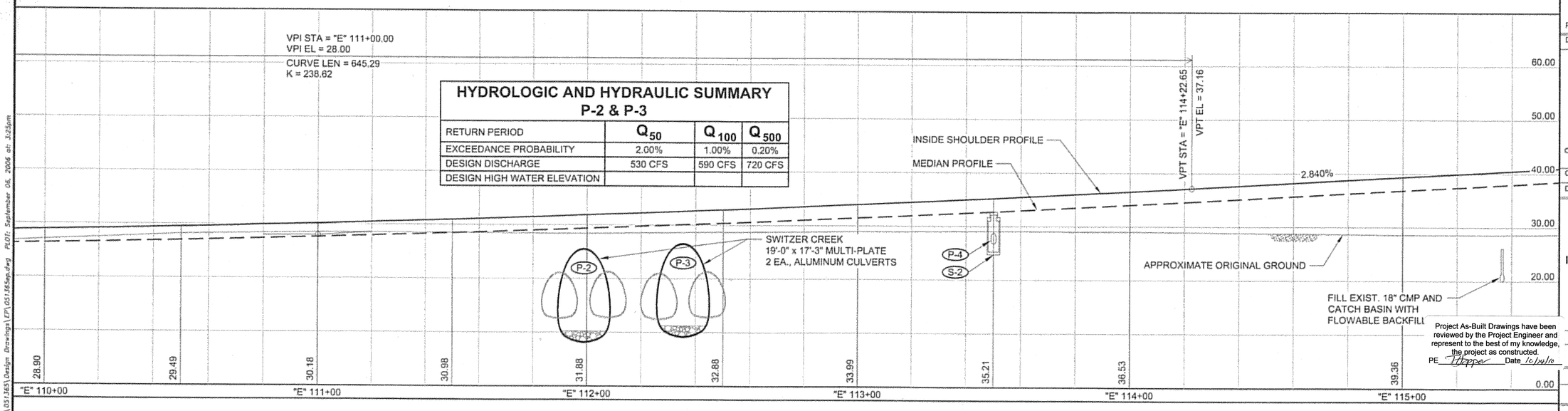
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS



VPI STA = "E" 111+00.00
VPI EL = 28.00
CURVE LEN = 645.29
K = 238.62

HYDROLOGIC AND HYDRAULIC SUMMARY
P-2 & P-3

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	530 CFS	590 CFS	720 CFS
DESIGN HIGH WATER ELEVATION			

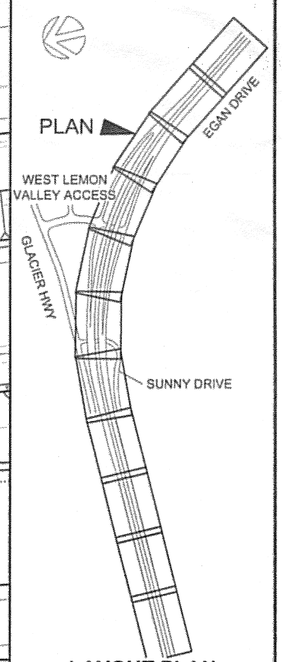


DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152
9-7-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Egan Drive
"E" Sta. 110+00 to 115+50
PLAN & PROFILE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Hopper Date 10/31/06

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F3	269

P:\26051\051A51\Design Drawings\LP\051A51sp.dwg PLOT: September 08, 2006 at: 3:23pm

CONSTRUCT STAIRS W/
9 RISERS @ 0.57'
TOP EL. = 25.63'
BOTTOM EL. = 20.50'
(SEE STD. DWG. M-01.00)

2
B18

N 500,590.16
E 508,770.33 25.93'

25.33' N 500,609.37
E 508,723.60

R=20.0'

25.41' N 500,616.52
E 508,714.74

25.64' N 500,625.65
E 508,685.15

R=25.0'

25.49' N 500,624.00
E 508,706.62

25.56' N 500,627.26
E 508,696.07

(1) ADA VAN ACCESSIBLE STALL

(3) 10' x 20' STALLS

8'

10'

N 500,630.32
E 508,734.95 25.57'

N 500,638.30
E 508,729.80 25.58'

R=22.5'

25.68' N 500,640.76
E 508,736.35

25.68' N 500,645.96
E 508,735.36

25.77' N 500,649.11
E 508,742.67

N 500,630.86
E 508,787.07 26.37'

N 500,651.65
E 508,729.02 25.58'

N 500,653.61
E 508,737.23 26.10'

N 500,661.69
E 508,734.52 25.59'

SUNNY DRIVE

RELOCATED WEST CREEK
SEE SHEET U10

REMOVE AND DISPOSE OF EXIST. 72" x 44" x 63' LONG ARCH PIPE AFTER DIVERSION OF FLOW TO RELOCATED WEST CREEK

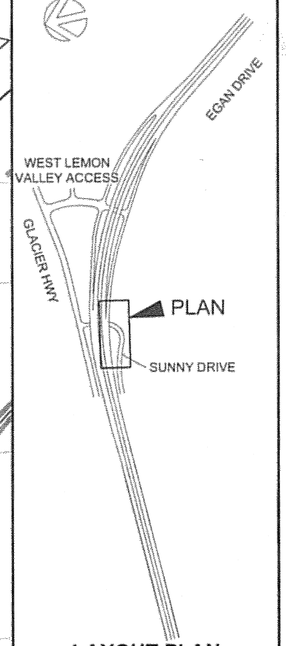
FILL EXISTING WEST CREEK ALIGNMENT AFTER DIVERSION OF FLOW TO RELOCATED WEST CREEK, SEE SHEET U10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431
MENDENHALL WETLANDS
STATE GAME REFUGE
PARKING LOT
GRADING PLAN

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F30	269

c:\2005\051565\Design Drawings\LP\051565sp.dwg PLOT: August 04, 2006 at: 2:18pm

MENDENHALL WETLANDS STATE GAME REFUGE

R/W

M.T.E. N 500,509.18 E 508,960.19

M.T.E. N 500,518.01 E 508,910.66

TOE OF EXIST. SLOPE / LIMITS OF WETLANDS RESTORATION WORK

M.T.E. N 500,537.07 E 508,864.16

M.T.E. N 500,553.45 E 508,816.87

MENDENHALL WETLANDS STATE GAME REFUGE

R/W

M.T.E. N 500,543.15 E 509,027.14

21.00' N 500,557.89 E 508,974.68

21.00' N 500,566.77 E 508,925.15

EXIST. SUNNY DRIVE TO BE REMOVED

21.00' N 500,585.25 E 508,878.48

21.00' N 500,586.18 E 508,826.60

RELOCATED WEST CREEK SEE SHEET U10

M.T.E. N 500,591.82 E 508,969.99

21.00' N 500,589.54 E 509,012.10

M.T.E. N 500,618.91 E 508,836.33

N 500,593.18 E 509,057.32 M.T.E.

N 500,615.53 E 508,939.65 M.T.E.

N 500,619.39 E 508,981.39 M.T.E.

N 500,633.43 E 508,892.81 M.T.E.

TOE OF NEW EGAN DRIVE FILL SLOPES

P-12

RETAINING WALL "D"

SOUTHBOUND EXIT RAMP

RESTORATION TREATMENT NOTES:

1) REMOVE EXISTING ROADWAY FILL FROM THIS AREA AND GRADE TO SLOPE UNIFORMLY FROM TOE OF NEW EMBANKMENT (APPROX. ELEV. +22') TO SOUTH SIDE OF EXISTING FILL (APPROX. ELEV. +19.5').

2) RE-GRADE AND RE-VEGETATE AREA WITH SUITABLE STAKED ORGANIC MAT (REMOVED FROM ELSEWHERE ON PROJECT MATCHING TO THE NEAREST FOOT THE ELEVATION OF THE VEG MAT PLACEMENT LOCATION), SEE LANDSCAPE PLANS FOR SALVAGE AND REVEGETATION DETAILS.

3) SEE "L" SHEETS FOR ADDITIONAL WETLANDS RESTORATION DETAILS.

4) SUBEXCAVATE AS REQUIRED TO ENSURE THAT ELEVATIONS GIVEN ARE TO THE TOP OF THE VEGETATION MAT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date _____

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

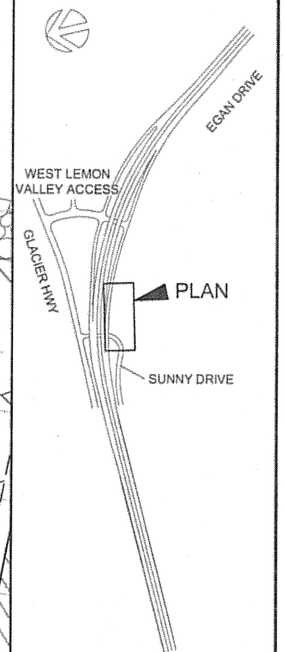
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ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SUNNY DRIVE WETLANDS RESTORATION

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F31	269

EXISTING SSMH
LID EL.=32.28'
NW 12" INLET I.E.=24.08'
NE 12" INLET I.E. =24.48'
E 12" INLET I.E. =24.88'
S 12" OUTLET I.E.=22.38'

SCHNEIDER DRIVE
(ASPHALT)

EXISTING 12" ACP

18" CMP
INV.=25.06'

R/W

NOTE:
SEE SPECIFICATIONS FOR REQUIREMENTS ON ASBESTOS PIPE RELATED WORK.

HIGHWAY

SAWCUT MTE

SP-1

12" PVC L=152' CENTER TO CENTER S=0.197%

10.00'

SAWCUT MTE

SSMH-1

SSMH-2

FIELD LOCATE EXISTING 12" ACP SEWER LINE AND CONNECT TO SSMH-2

PROTECT AND MAINTAIN EXISTING WOODEN UTILITY POLE

REPAINT ALL STRIPING DAMAGED/ DESTROYED BY THIS SEWER LINE WORK

FIELD LOCATE EXISTING 12" ACP SEWER LINE AND CONNECT TO SSMH-1

REMOVE AND REPLACE EXISTING ASPHALT PAVEMENT FOR NEW SEWER LINE INSTALLATION

EXISTING 18" CMP

EXISTING 16" DIP

GLACIER

EXISTING 12" DIP PRESSURE SEWER

EXISTING 12" ACP
ABANDON IN PLACE

ABANDON IN PLACE
EXISTING SSMH
LID EL.=27.42'
N 12" INLET I.E.=22.22'
E 12" INLET I.E. =22.17'

EXISTING 12" ACP
ABANDON IN PLACE

FILL SLOPE LIMITS

WATER VALVE
FIRE HYDRANT

WATER
VAULT

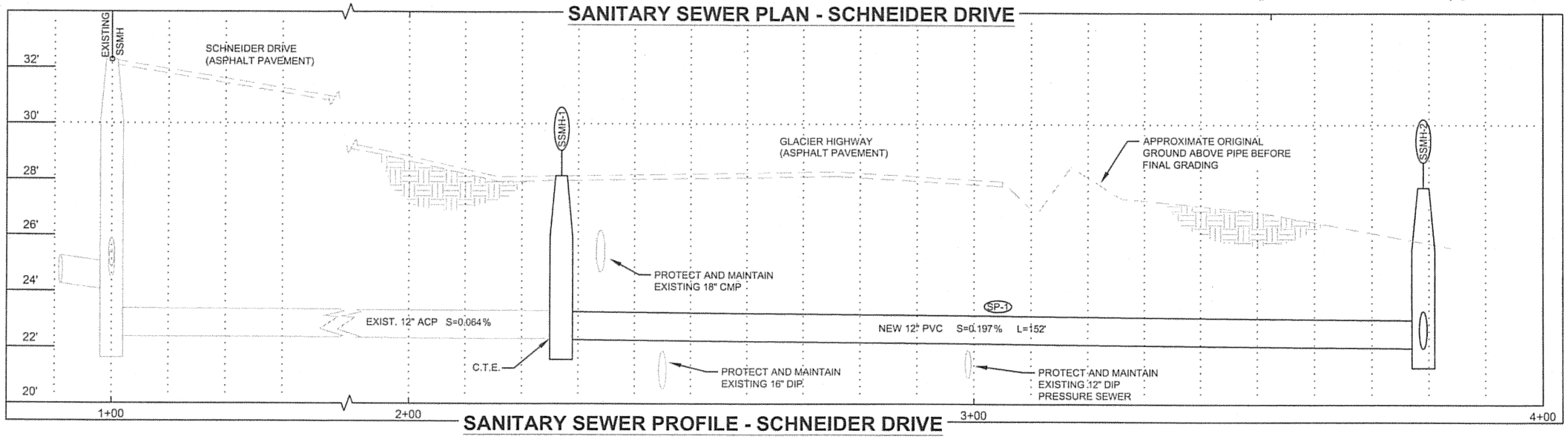
18" CMP
INV.=23.88'

WEST CREEK

SSMH-1	TYPE 1 MANHOLE
N.-500,994.2447	E.-508,936.4149
LID EL.=	28.0'
12" ACP INLET I.E. =	22.32' (MTE)
12" PVC OUTLET I.E. =	22.28'

SSMH-2	TYPE 1 MANHOLE
N.-500,865.2819	E.-509,017.4380
LID EL.=	27.75'
12" PVC INLET I.E. =	22.02'
12" ACP OUTLET I.E. =	21.98' (MTE)

SANITARY SEWER PLAN - SCHNEIDER DRIVE



SANITARY SEWER PROFILE - SCHNEIDER DRIVE

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

I:\2005\051363\Design Drawings\F-New Sewer.dwg PLOT: August 04, 2006 at: 1:48pm

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Schneider Drive Sewer Plan & Profile

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Schneider Drive Sewer Plan & Profile

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F32	269

SOUTHBOUND EXIT RAMP

SOUTHBOUND LANES

NORTHBOUND LANES

RETAINING WALL "E"
SEE SHEET M6

RETAINING WALL "F"
SEE SHEETS M7 & M8

NORTHBOUND ENTRANCE RAMP

RETAINING WALL "D"
SEE SHEET M5

RETAINING WALL "G"
SEE SHEETS M9-M11

R/W

TEMPORARY CONSTRUCTION EASEMENT

R/W

30.00' N 500,822.28 E 509,112.64

29.00' N 500,840.33 E 509,064.87

28.00' N 500,859.17 E 509,017.22

27.00' N 500,871.30 E 508,968.51

26.00' N 500,884.10 E 508,919.91

SUNNY DRIVE

REMOVE & DISPOSE OF EXIST. CMP

FILL EXIST. DITCH AND GRADE TO DRAIN

PARTY ZONE (CANOPY)

N 500,870.15 E 509,120.18 29.00'

N 500,877.93 E 509,070.78 28.18'

N 500,885.70 E 509,021.39 27.35'

N 500,893.47 E 508,972.00 26.51'

N 500,901.24 E 508,922.61 25.65'

PROTECT & MAINTAIN EXIST. UTILITY POLE

N 500,917.97 E 508,925.24 26.00'

N 500,917.46 E 508,975.77 27.00'

N 500,917.60 E 509,026.41 28.00'

N 500,918.36 E 509,077.15 29.00'

N 500,919.13 E 509,127.88 30.00'

REMOVE EXIST. ASPHALT AND ISLANDS, SEED AREA AS DIRECTED ON THE LANDSCAPING SHEETS

GLACIER HIGHWAY

R/W

SCHNEIDER DRIVE

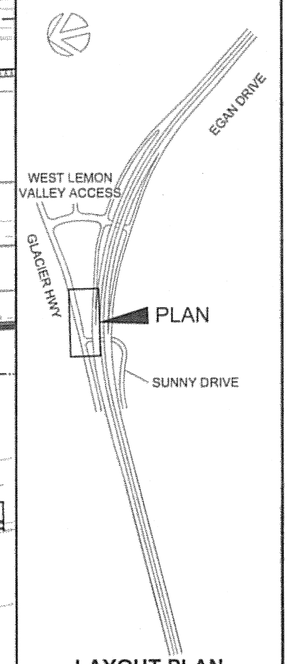
WEST CREEK

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

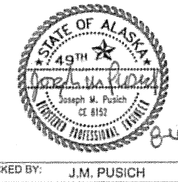
No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN



CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

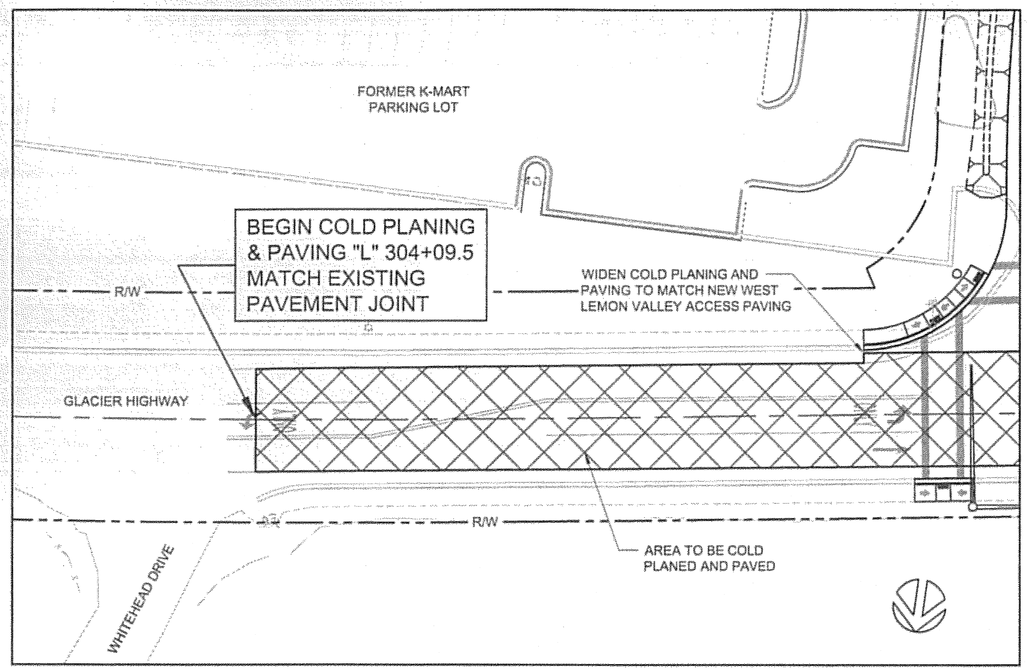
EXISTING NORTH SUNNY DRIVE INTERSECTION
GRADING PLAN

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

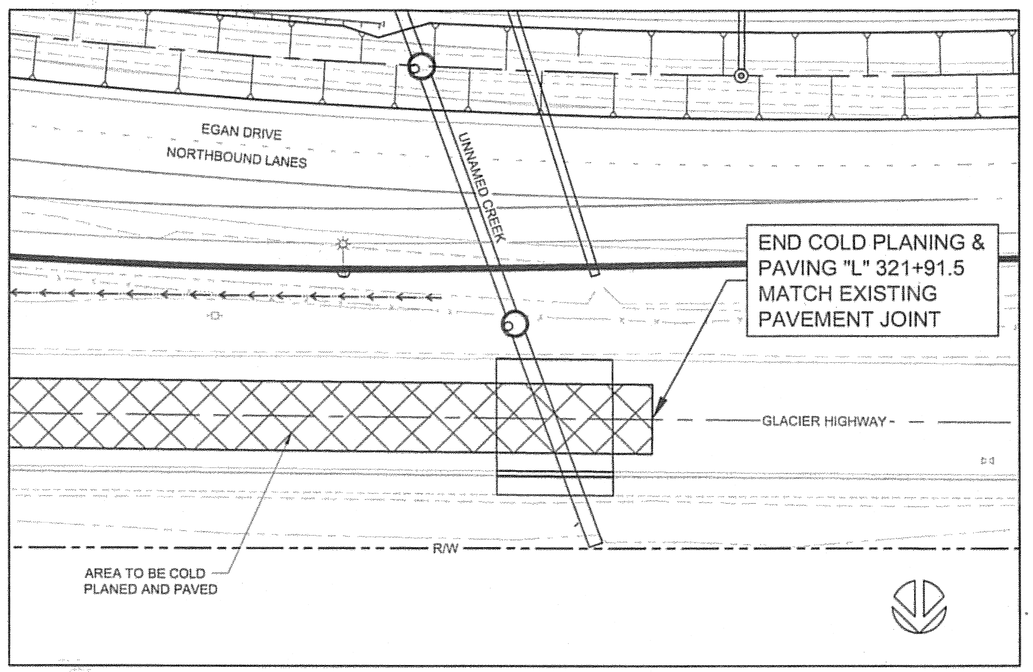
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F33	269

c:\2005\051565\Design Drawings\EPI\051565sp.dwg PLOT: August 04, 2006 at 2:19pm



GLACIER HIGHWAY PLAN VIEW

N.T.S.

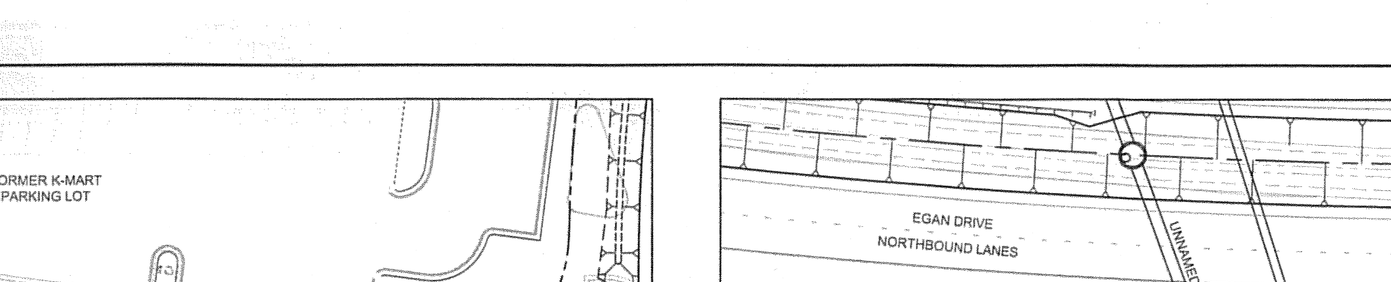


GLACIER HIGHWAY PLAN VIEW

N.T.S.

LEGEND

DENOTES AREA TO BE COLD PLANED AND PAVED



TYPICAL SECTION

STA. "L" 304+09.5 TO STA. "L" 317+69.8

N.T.S.

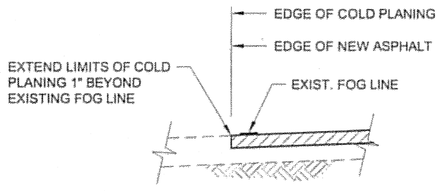
★ WIDEN COLD PLANING AND PAVING TO MATCH NEW WEST LEMON VALLEY ACCESS PAVING, APPROXIMATE STA. "L" 306+20.3 TO STA. "L" 307+78.5

★★ 12' LEFT TURN LANE TRANSITIONS TO ZERO FEET FROM APPROXIMATE STA. "L" 314+50.0 TO STA. "L" 316+30.0

★★★ WIDEN COLD PLANING AND PAVING TO MATCH NEW SUNNY DRIVE PAVING, APPROXIMATE STA. "L" 316+70.3 TO STA. "L" 317+69.9

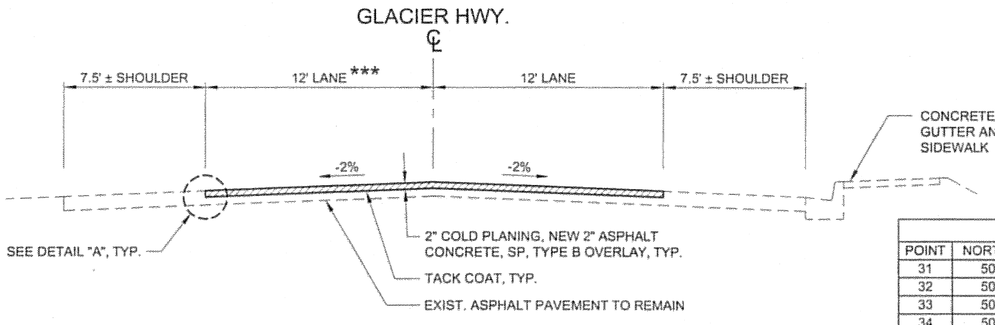
CONSTRUCTION NOTES:

1. GRADES AND ALIGNMENTS SHOWN ARE APPROXIMATE.
2. THE LOCATIONS OF PROPOSED IMPROVEMENTS ARE SUBJECT TO MINOR FIELD REVISIONS BY THE PROJECT ENGINEER.
3. REPLACE ALL STRIPING, RECESSED PAVEMENT MARKERS AND NO PASSING GROOVES REMOVED DURING ASPHALT REMOVAL TO MATCH EXISTING. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING EXISTING CONFIGURATION. PROVIDE DOT&PF TRAFFIC SECTION THE MARKING LAYOUT ONE WEEK PRIOR TO FINAL STRIPING FOR REVIEW AND APPROVAL.



DETAIL "A"

N.T.S.



TYPICAL SECTION

STA. "L" 317+69.8 TO STA. "L" 321+91.5

N.T.S.

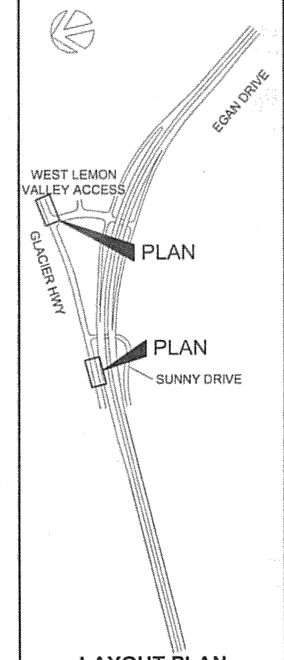
ADJUST EXISTING MONUMENT SUMMARY			
POINT	NORTHING (FT US)	EASTING (FT US)	DESCRIPTION
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32	500977.9442	509563.2568	CL_MON_"L"_PTS_309+49.08_"KM-32"
33	500957.9961	509414.6583	CL_MON_"L"_PCS_310+99.08_"KM-33"
34	500950.2458	509381.2093	CL_MON_"L"_PI_311+33.35_"KM-34"
35	500952.8642	509346.8721	CL_MON_"L"_PCS_311+67.11_"KM-35"
36	500950.5070	509196.9403	CL_MON_"L"_PST_313+17.11_"KM-36"
37	500950.2120	509013.9114	CL_MON_"O"_PI_315+00.00_"KM-37"

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

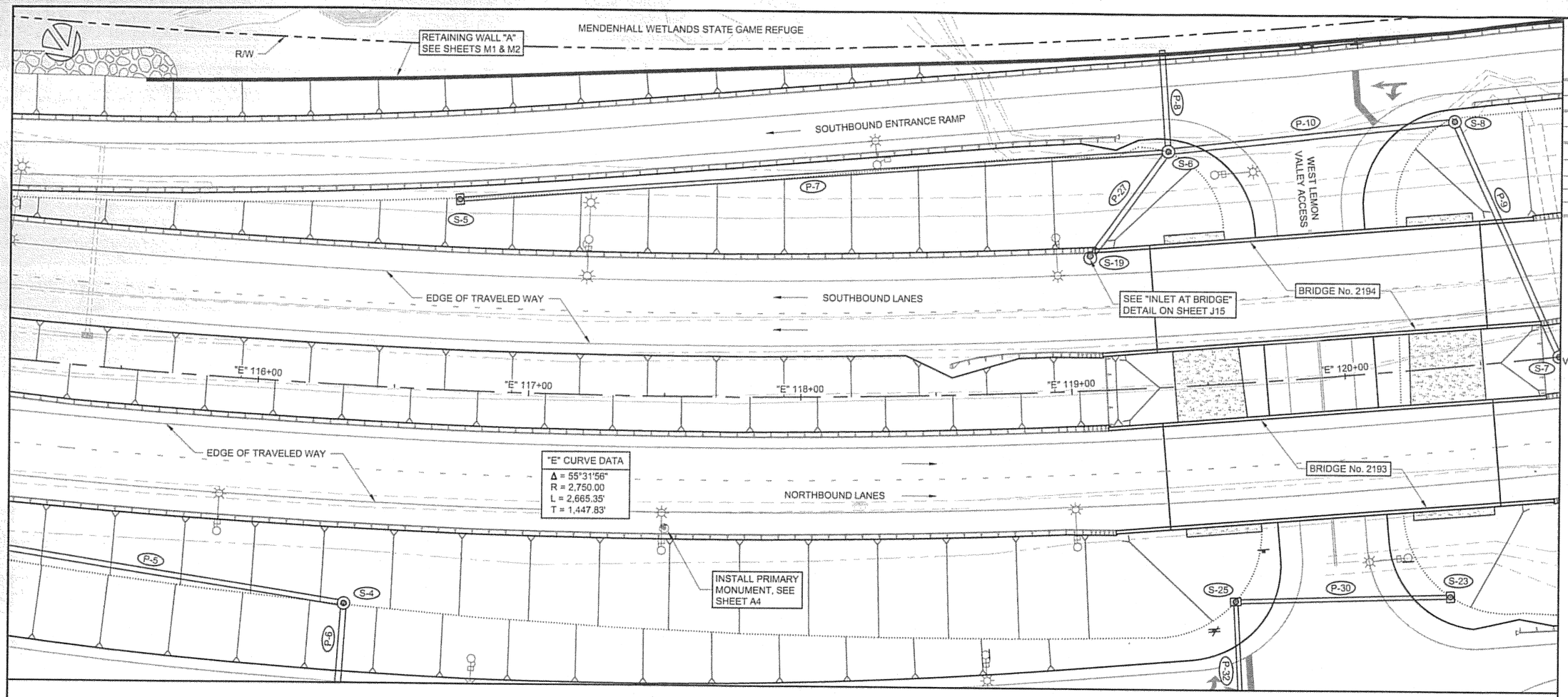
GLACIER HIGHWAY
COLD PLANING &
PAVING PLAN

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F34	269

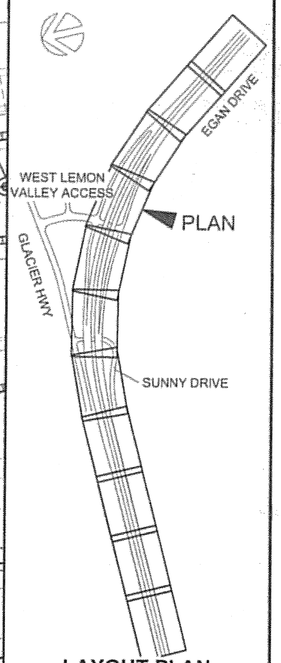
A:\2005\051365\Design Drawings\EPU\051365ep.dwg PLOT: August 04, 2006 at: 2:19pm



ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8406

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Egan Drive
"E" Sta. 115+50 to 120+50
PLAN & PROFILE

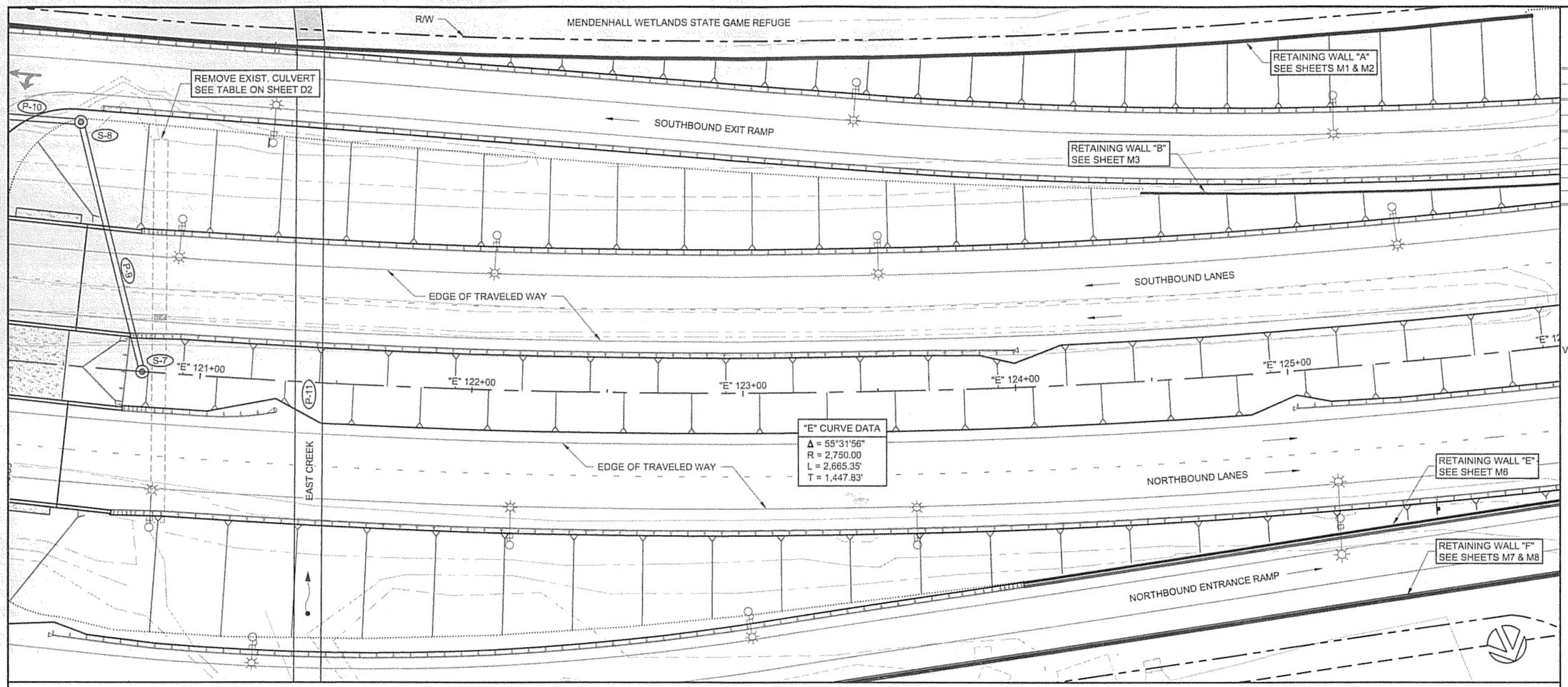
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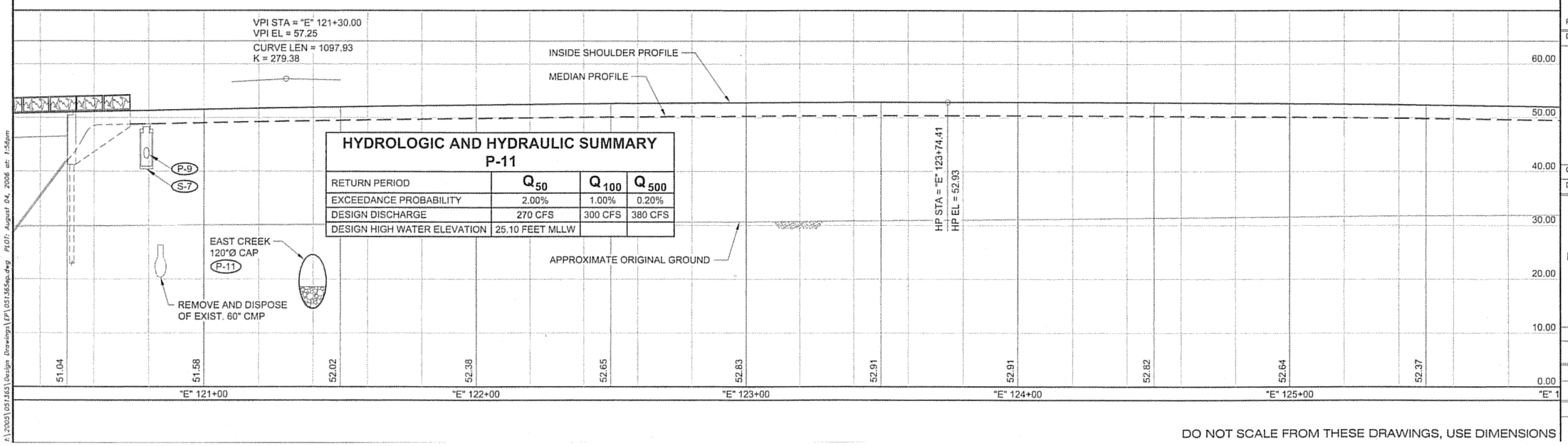
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F4	269

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

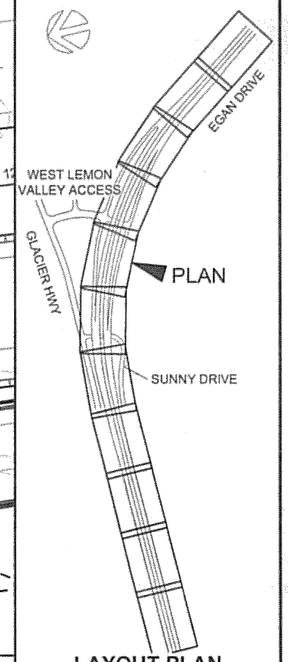
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HYDROLOGIC AND HYDRAULIC SUMMARY
P-11

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	270 CFS	300 CFS	380 CFS
DESIGN HIGH WATER ELEVATION	25.10 FEET MLLW		



LAYOUT PLAN
KEY MAP

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
19TH
Joseph M. Pusich
CE 8153
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Egan Drive
"E" Sta. 120+50 to 125+50
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F5	269

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A:\2005\051363\Design Drawings\EP\051363ep.dwg PLOT: August 04, 2006 at: 1:58pm

RETAINING WALL "A" SEE SHEETS M1 & M2

SEE "OUTFALL PROTECTION" DETAIL ON SHEET J3

RELOCATED WEST CREEK, SEE SHEET U10

SUNNY DRIVE

SEE "OUTFALL PROTECTION" DETAIL ON SHEET J3

RETAINING WALL "D" SEE SHEET M5

P-39

S-31

P-25

RETAINING WALL "G" SEE SHEETS M9-M11

S-17

RETAINING WALL "B" SEE SHEET M3

SOUTHBOUND EXIT RAMP

P-12

SEE "INLET AT BRIDGE" DETAIL ON SHEET J15

BRIDGE No. 2192

EDGE OF TRAVELED WAY

SOUTHBOUND LANES

"E" CURVE DATA
Δ = 55°31'56"
R = 2,750.00
L = 2,665.35'
T = 1,447.83'

CONCRETE BARRIER TRANSITION, SEE DETAIL ON SHEET J14

"E" 126+00

"E" 127+00

"E" 128+00

S-9

"E" 129+00

"E" 130+00

"E" 131+00

INSTALL PRIMARY MONUMENT, SEE SHEET A4

EDGE OF TRAVELED WAY

NORTHBOUND LANES

REMOVE EXIST. CULVERT SEE TABLE ON SHEET D2

P-13

BRIDGE No. 2127

LIGHT POLE SUPPORT, SEE DETAILS ON SHEETS J11 & R19

RETAINING WALL "F" SEE SHEETS M7 & M8

RETAINING WALL "E" SEE SHEET M6

NORTHBOUND ENTRANCE RAMP

RETAINING WALL "D" SEE SHEET M5

RETAINING WALL "G" SEE SHEETS M9-M11

S-30

S-29

P-19

P-38

22.97' "E"130+50.0 95.34' RT.

23.49' "E"131+00.0 96.30' RT.

VPI STA = "E" 121+30.00
VPI EL = 57.25
CURVE LEN = 1097.93
K = 279.38

VPT STA = "E" 126+78.97
VPT EL = 51.27

INSIDE SHOULDER PROFILE

MEDIAN PROFILE

-1.090%

APPROXIMATE ORIGINAL GROUND

P-12

S-9

"S"

WEST CREEK 120"Ø CAP

P-13

℄ SUNNY DRIVE

60.00
50.00
40.00
30.00
20.00
10.00
0.00

52.01
51.57
51.04
49.95
48.86
47.77
46.68

"E" 126+00
"E" 127+00
"E" 128+00
"E" 129+00
"E" 130+00
"E" 131+00

HYDROLOGIC AND HYDRAULIC SUMMARY P-13

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	170 CFS	190 CFS	250 CFS
DESIGN HIGH WATER ELEVATION	24.29 FEET MLLW		

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/14/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

WEST LEMON VALLEY ACCESS

EGAN DRIVE

GLACIER HWY

PLAN

SUNNY DRIVE

LAYOUT PLAN KEY MAP

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 749TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 6-14-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Egan Drive
"E" Sta. 125+50 to 131+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F6	269

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SEE SHEET F17 FOR GRADING INFORMATION IN THIS AREA

REMOVE EXIST. CULVERT SEE TABLE ON SHEET D2

SUNNY DRIVE

SOUTHBOUND LANES

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

NORTHBOUND LANES

EDGE OF TRAVELED WAY

NORTHBOUND ENTRANCE RAMP

"E" CURVE DATA
Δ = 55°31'56"
R = 2,750.00
L = 2,665.35'
T = 1,447.83'

"E" 131+00 "E" 132+00 "E" 133+00 "E" 134+00 "E" 135+00 "E" 136+00

"E"131+00.0 96.30' RT. 23.49'
"E"131+50.0 94.71' RT. 24.01'
"E"132+00.0 89.52' RT. 24.53'
"E"132+50.0 85.29' RT. 25.05'
"E"133+00.0 82.01' RT. 25.56'
"E"133+50.0 79.67' RT. 26.08'

P-17 P-35 P-16 P-34 P-15 P-14 P-18 P-24

S-12 S-11 S-10 S-13 S-14

SEE "OUTFALL PROTECTION" DETAIL ON SHEET J3

STA. "E" 134+15.11
53.92' LT.

PT = "E" 135+27.43

S 88°59'05" W - 2,179.39'

REMOVE EXIST. CULVERT SEE TABLE ON SHEET D2

FILL AND REGRADE EXIST. DITCH AS NECESSARY TO ENSURE DRAINAGE TO PIPE P-34

24.88' "E" 135+00.00 61.14' LT.
25.13' "E" 135+50.00 76.10' LT.
25.38' "E" 136+00.00 76.31' LT.

RETAINING WALL "C" SEE SHEET M4

INSTALL PRIMARY MONUMENT, SEE SHEET A4

OVERHEAD SIGN AND BASE STRUCTURE, SEE "P" SHEETS

INSTALL NEW 8" DIP SEWER LINE

EXIST. 8" PVC SEWER

RETAINING WALL "G" SEE SHEETS M9-M11

EXIST. SSMH
LID EL.=25.10'
S. 8" PVC I.E.=15.27'
W. 8" PVC I.E.=15.27'
N. 8" PVC I.E.=15.02'

EXIST. SSMH
LID EL.=27.77'
S. 8" PVC I.E.=13.25'
N.W. 6" PVC I.E.=20.58'

GLACIER HIGHWAY

EXIST. SEWER LIFT STATION

INSIDE SHOULDER PROFILE
MEDIAN PROFILE
-1.090%

60.00 50.00 40.00 30.00 20.00 10.00 0.00

P-18 S-13 P-34 P-16 S-11

REMOVE AND DISPOSE OF EXIST. 48" CMP

APPROXIMATE ORIGINAL GROUND

EXIST. 8" PVC SEWER
INSTALL 8" DIP SEWER

46.68 45.59 44.50 43.41 42.32 41.23

"E" 131+00 "E" 132+00 "E" 133+00 "E" 134+00 "E" 135+00 "E" 136+00

HYDROLOGIC AND HYDRAULIC SUMMARY
P-14, P-15, P-16 & P-17

RETURN PERIOD	Q_{50}	Q_{100}	Q_{500}
EXCEEDANCE PROBABILITY	2.00%	1.00%	0.20%
DESIGN DISCHARGE	11 CFS	13 CFS	16 CFS
DESIGN HIGH WATER ELEVATION	19.39 FEET MLLW		

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

EGAN DRIVE
WEST LEMON VALLEY ACCESS
GLACIER HWY
PLAN
SUNNY DRIVE

LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

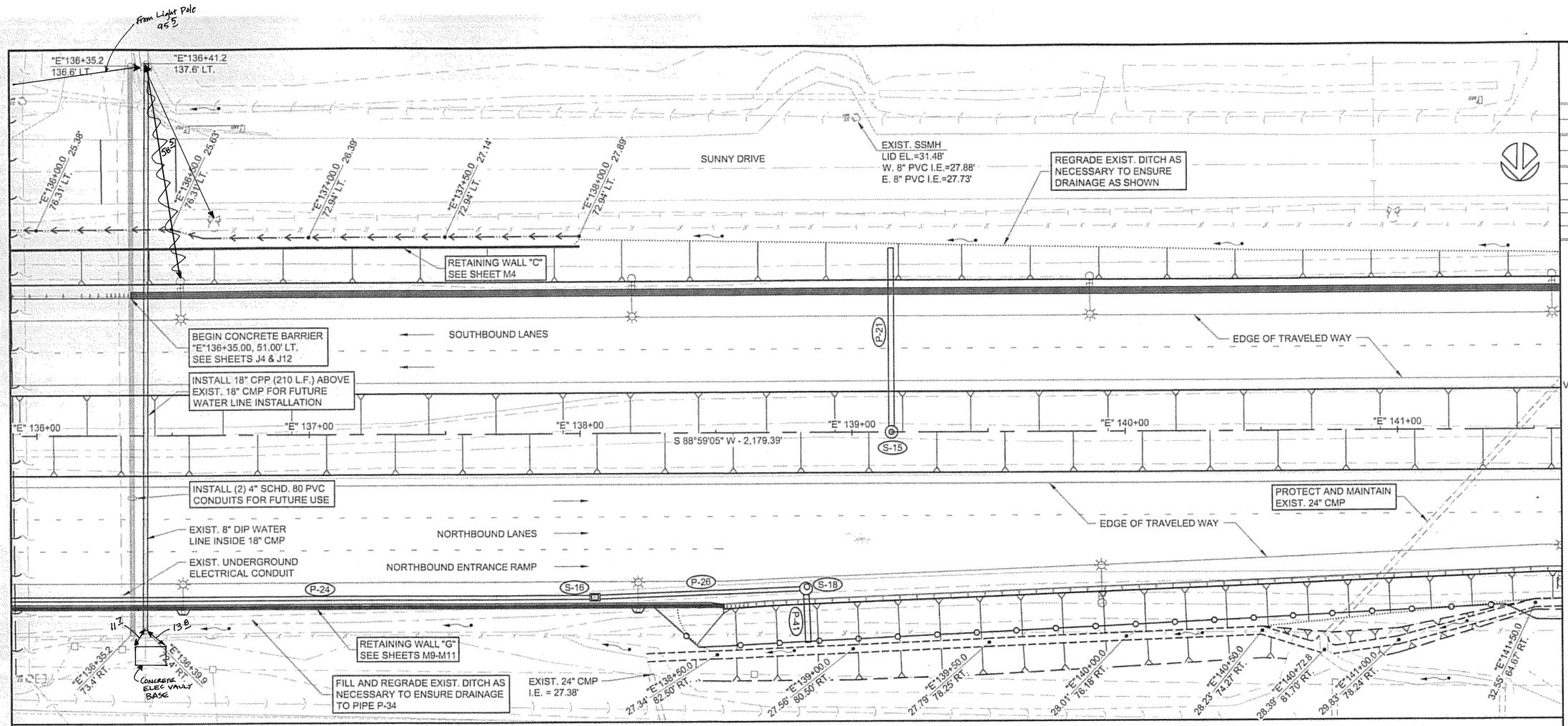
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Egan Drive "E" Sta. 131+00 to 136+00
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F7	269

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Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 10/14/10

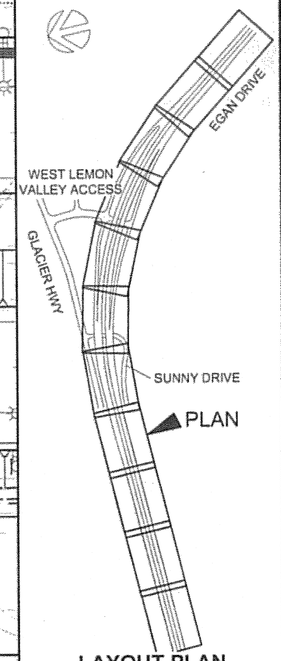
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ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Egan Drive
"E" Sta. 136+00 to 141+50
PLAN & PROFILE

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F8	269

SUNNY DRIVE

PROTECT AND MAINTAIN EXIST. 24" CMP

EDGE OF TRAVELED WAY

SOUTHBOUND LANES

CONCRETE BARRIER, SEE SHEET J4

INSTALL (4) 4" SCHD. 80 PVC CONDUITS FOR FUTURE USE

"E" 142+00 "E" 143+00 "E" 144+00 "E" 145+00 "E" 146+00

S 88°59'05" W - 2,179.39'

EDGE OF TRAVELED WAY

NORTHBOUND LANES

APPROX. LOCATION OF EXIST. UNDERGROUND ELECTRICAL CONDUITS

AUTOMATIC TRAFFIC RECORDING DEVICE, SEE "Q" SHEETS FOR DETAILS & LAYOUT INFORMATION

STA. "E" 141+53.05
53.00' RT.

"E"145+39.9
128.5' LT.

PowerPole #12251

31°

83°

"E"141+50.0
64.67' RT.

"E"142+00.0
63.69' RT.

"E"142+50.0
62.85' RT.

"E"143+00.0
62.00' RT.

32.55'

33.37'

34.18'

35.00'

75°

"E"145+47.8
81.3' RT.

7°

PP# 12245

INSIDE SHOULDER PROFILE

MEDIAN PROFILE

0.502%

APPROXIMATE ORIGINAL GROUND

EXIST. 24" CMP

INSTALL (4) 4" SCHD. 80 PVC CONDUITS

APPROX. LOCATION OF EXIST. UNDERGROUND ELECTRICAL CONDUITS

60.00
50.00
40.00
30.00
20.00
10.00
0.00

40.26 40.76 41.26 41.77 42.27

"E" 142+00 "E" 143+00 "E" 144+00 "E" 145+00 "E" 146+00

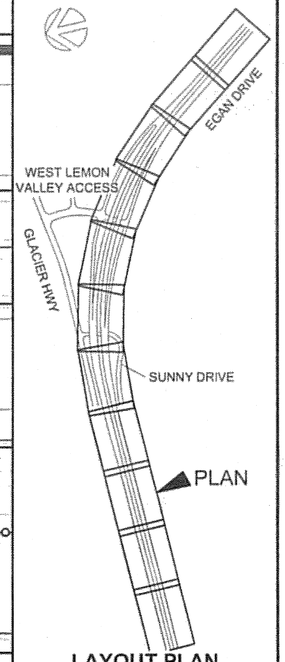
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/19/06

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

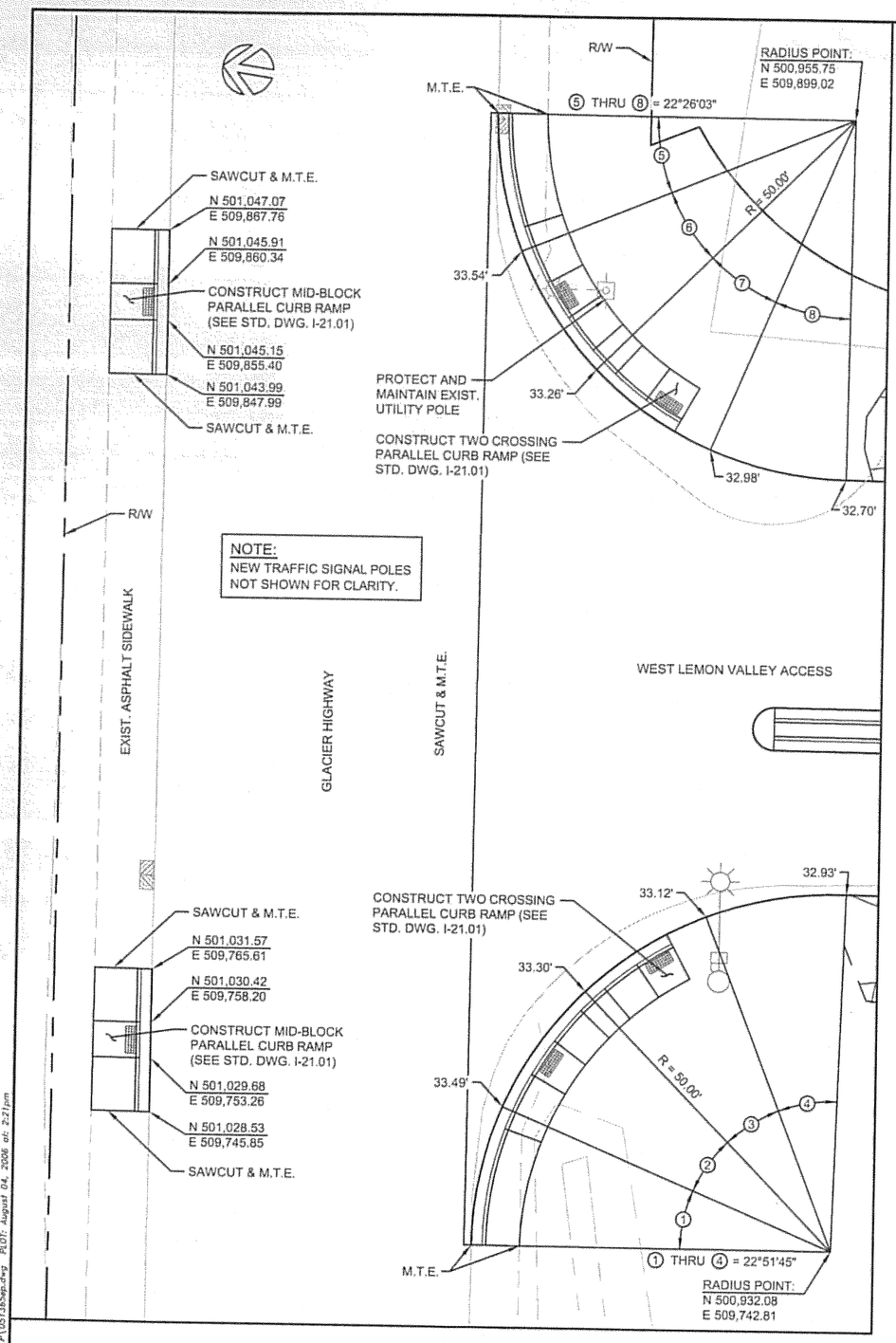
Egan Drive
"E" Sta. 141+50 to 146+50
PLAN & PROFILE

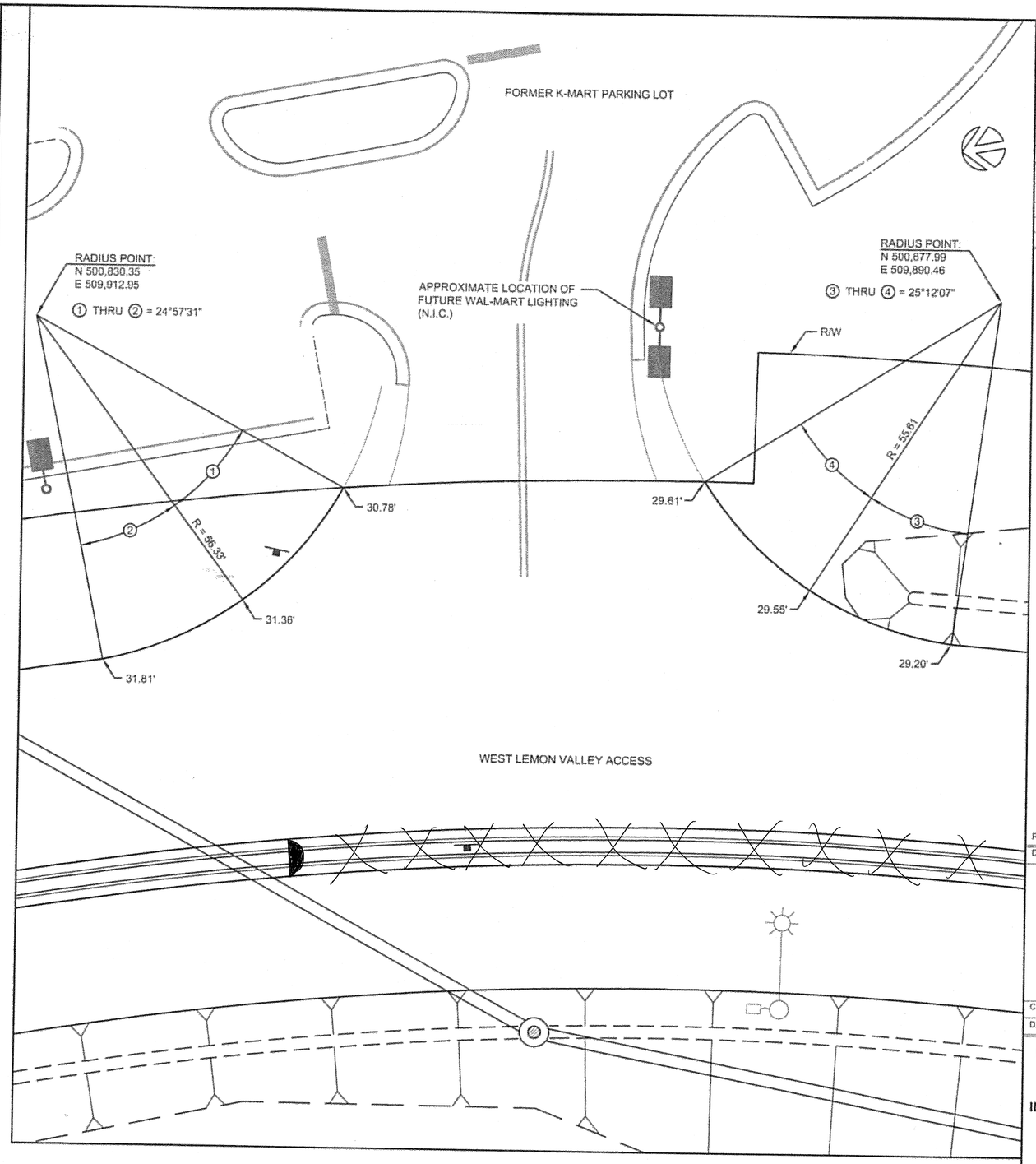
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
F9	269

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NOTES:
1) RADII GIVEN ARE TO EDGE OF ASPHALT PAVEMENT.

2) SPOT ELEVATIONS SHOWN ARE EDGE OF ASPHALT PAVEMENT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date _____

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Intersection Grading Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

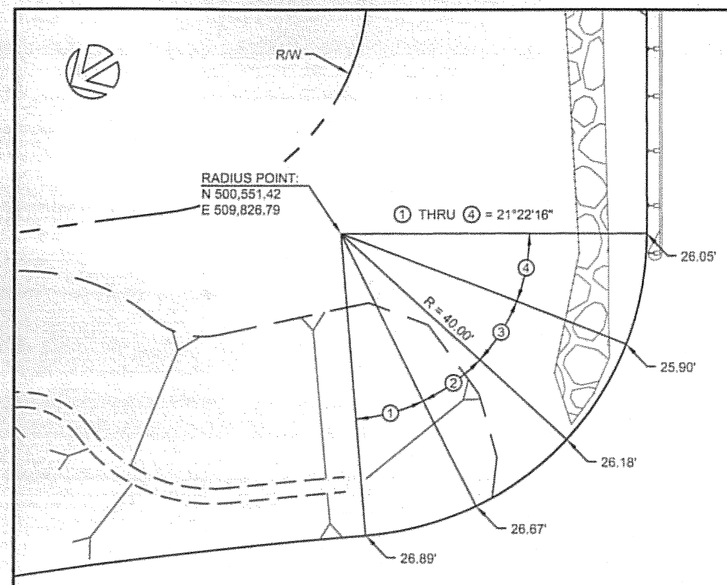
STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER — 8-1-06

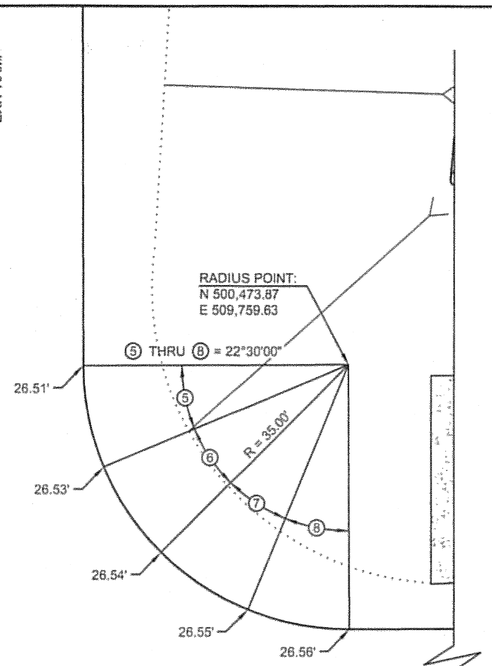
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

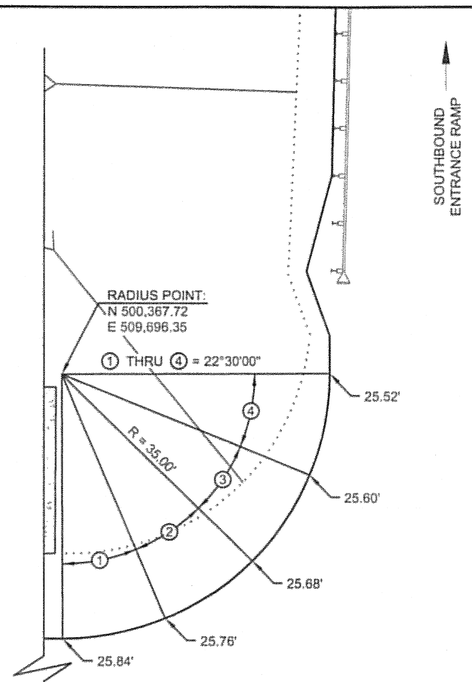
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

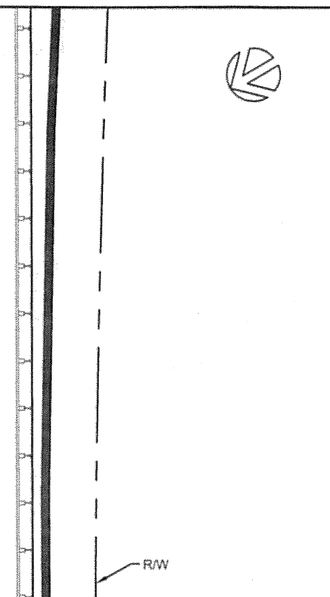
Intersection Grading Plan

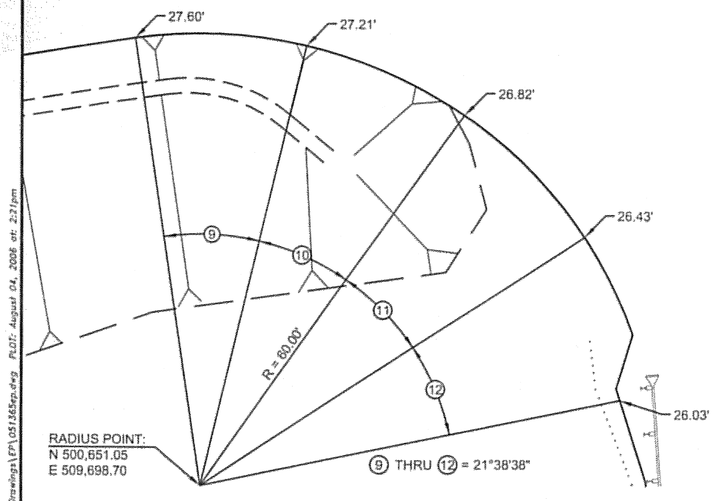
PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
G1	**269**

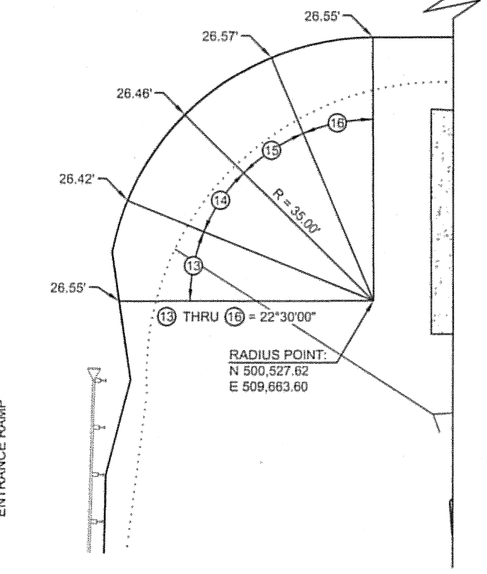


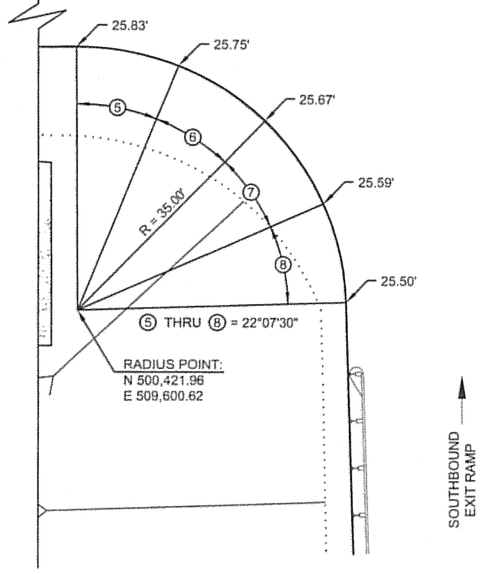












NOTES:

1) RADII GIVEN ARE TO EDGE OF ASPHALT PAVEMENT.

2) SPOT ELEVATIONS SHOWN ARE EDGE OF ASPHALT PAVEMENT.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1/14/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Intersection Grading Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — PROFESSIONAL ENGINEER
Joseph M. Pusich 01-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

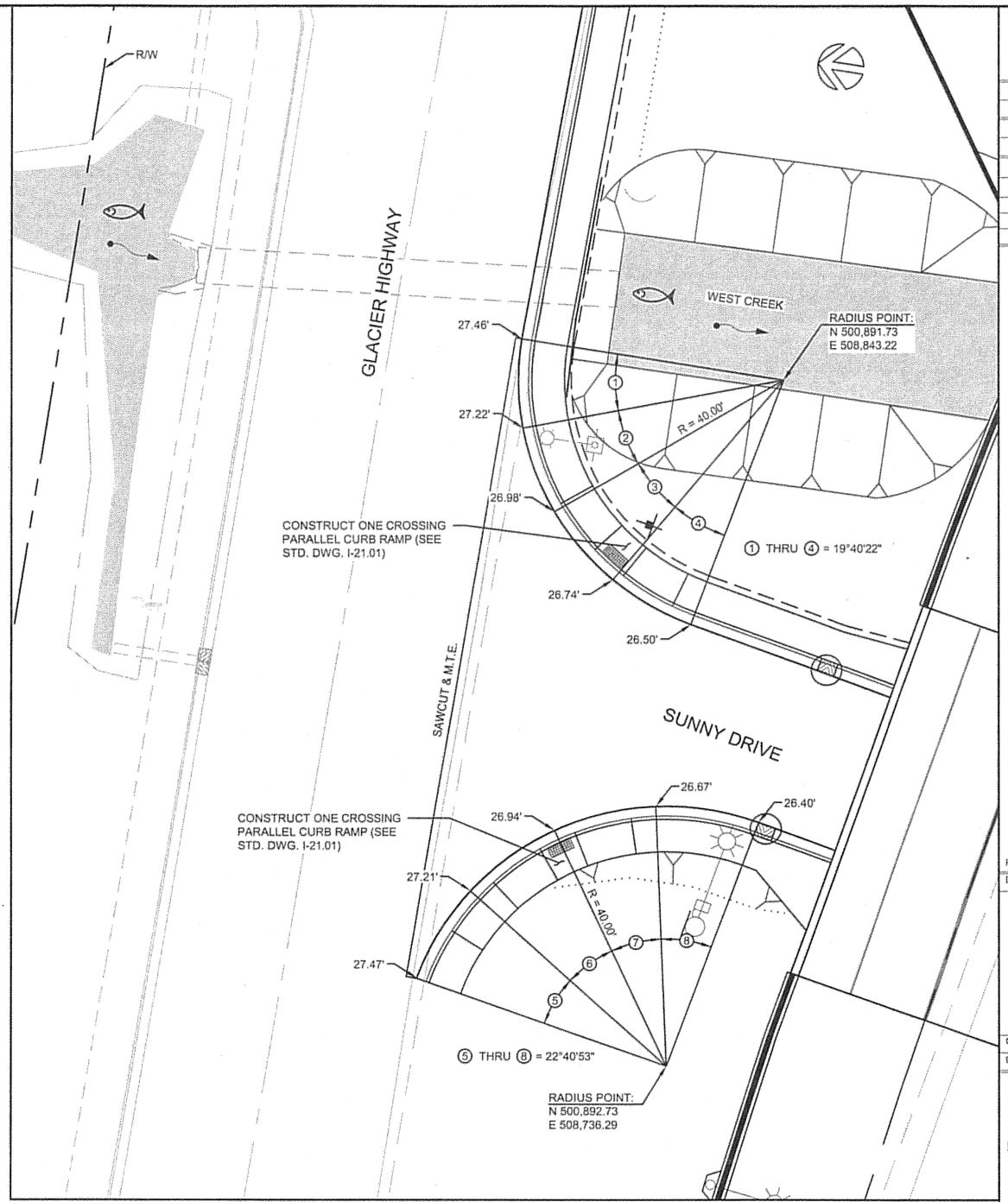
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Intersection Grading Plan

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
G2	**269**

J:\2005\051363\Design Drawings\EPI\051363sp.dwg PLOT: August 04, 2006 at: 2:21pm



NOTES:
1) RADII GIVEN ARE TO EDGE OF ASPHALT PAVEMENT.

2) SPOT ELEVATIONS SHOWN ARE EDGE OF ASPHALT PAVEMENT.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Intersection Grading Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

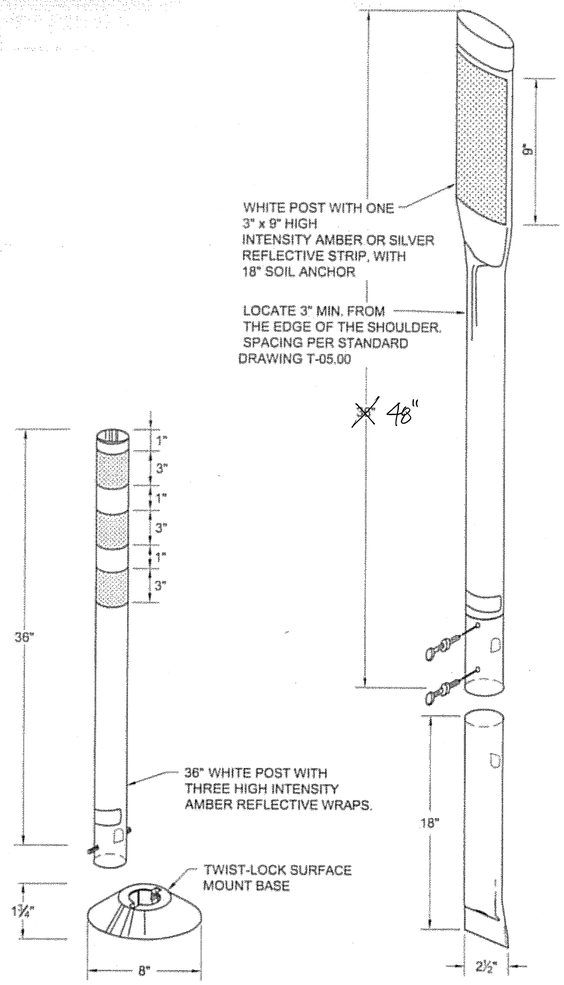
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Intersection Grading Plan

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
G3	269

I:\2005\051353\Design Drawings\PS\051354sp.dwg PLOT: August 04, 2006 at: 2:21pm

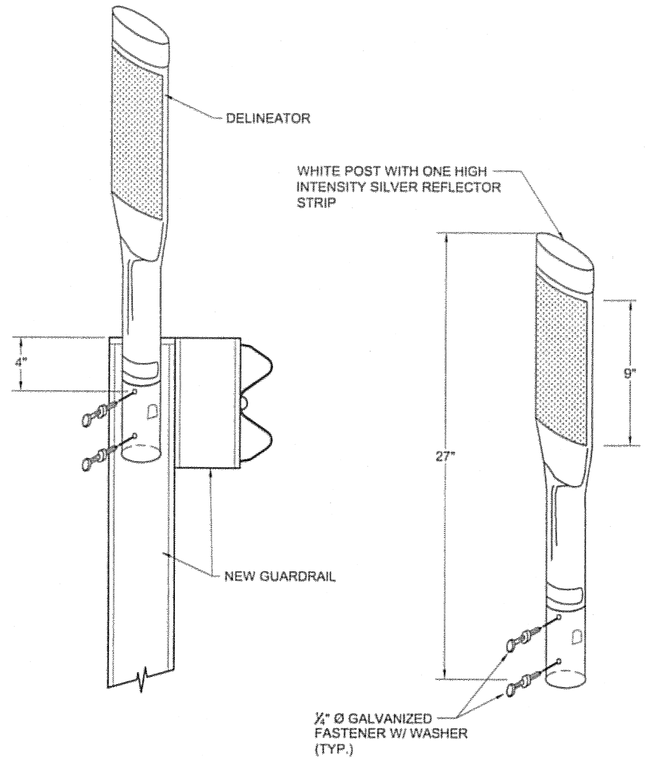


TYPE "A" FLEXIBLE DELINEATOR DETAIL
N.T.S.

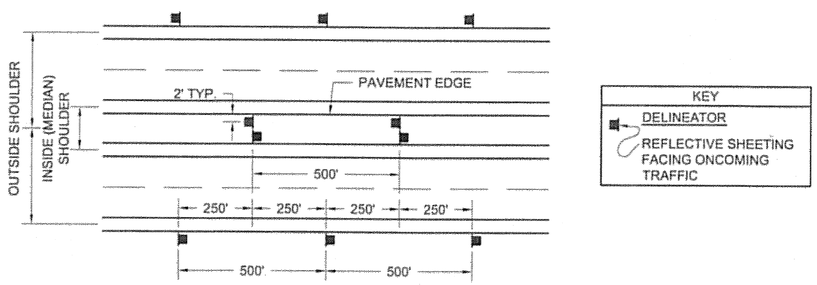
TYPE "B" FLEXIBLE DELINEATOR DETAIL
N.T.S.

FLEXIBLE DELINEATORS NOTES:

1. DELINEATORS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE SUMMARY TABLE ON SHEET D3.
2. DELINEATORS SHALL BE WHITE IN COLOR. DELINEATORS INSTALLED ON OUTSIDE SHOULDERS SHALL HAVE WHITE REFLECTIVE SHEETING. DELINEATORS INSTALLED ON MEDIAN SHOULDERS SHALL HAVE YELLOW REFLECTIVE SHEETING.
3. DELINEATORS SHALL BE INSTALLED ON 500' CENTERS AND PLACED 2' FROM THE EDGE OF PAVEMENT. OUTSIDE SHOULDER AND MEDIAN POSTS SHALL BE STAGGERED AS INDICATED ON THE PLACEMENT DETAIL.
4. WHEN NORMAL UNIFORM SPACING IS INTERRUPTED BY INTERSECTIONS, DELINEATORS FALLING WITHIN THE INTERSECTION MAY BE MOVED IN EITHER DIRECTION, A DISTANCE NOT EXCEEDING 125 FEET. DELINEATORS STILL FALLING WITHIN THE INTERSECTION SHALL BE ELIMINATED.



FLEXIBLE GUARDRAIL DELINEATOR DETAIL
N.T.S.



TYPICAL DELINEATOR PLACEMENT DETAIL
N.T.S.

KEY
DELINEATOR
REFLECTIVE SHEETING FACING ONCOMING TRAFFIC

DELINEATOR NOTES:

1. DELINEATORS SHALL BE INSTALLED ALONG EGAN DRIVE AT GUARDRAIL LOCATIONS AT 500' ON CENTER. ALL GUARDRAIL ENDS SHALL HAVE DELINEATORS.
2. DELINEATORS INSTALLED ON OUTSIDE SHOULDER GUARDRAIL SHALL HAVE WHITE REFLECTIVE SHEETING. DELINEATORS INSTALLED ON MEDIAN SHOULDER GUARDRAIL SHALL HAVE YELLOW REFLECTIVE SHEETING.
3. STEEL POST GUARDRAIL SHALL BE PRE-DRILLED PRIOR TO SECURING DELINEATOR WITH SELF-TAPPING SCREWS.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 12/11/12

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
EXPIRES 12/31/2012
8406

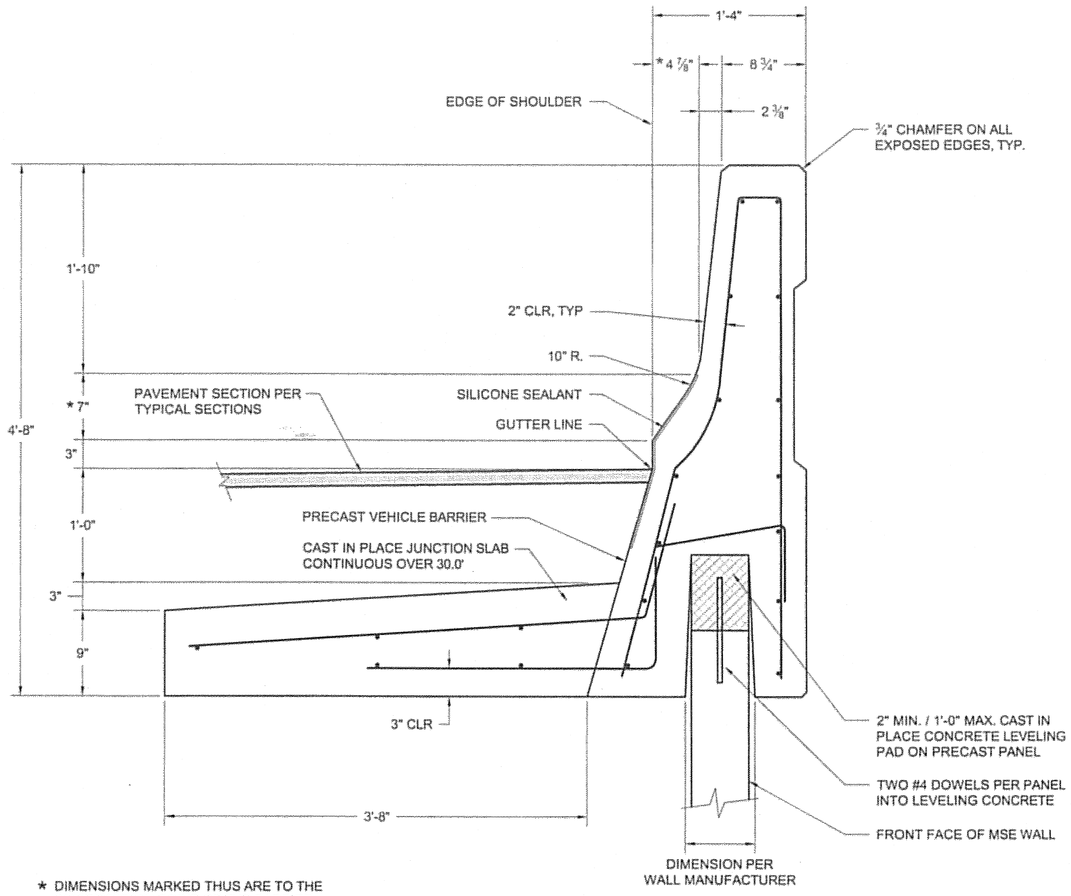
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Construction Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J1	269

I:\2005\051363\Design Drawings\J-Construction Details.DWG PLOT: August 04, 2006 at: 1:45pm



* DIMENSIONS MARKED THUS ARE TO THE INTERSECTION POINT OF THE BARRIER SLOPES

NOTES:

1. ALTERNATE DETAILS MAY BE SUBMITTED FOR APPROVAL.
2. ACTUAL DIMENSIONS AND REINFORCING STEEL FOR PRECAST VEHICLE BARRIER ARE TO BE DETERMINED BY THE WALL MANUFACTURER AND SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. VEHICLE BARRIER SHALL MEET ALL NCHRP 350 TL 3 REQUIREMENTS.

PRECAST VEHICLE BARRIER WITH CAST IN PLACE SLAB

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER .

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER
9-7-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

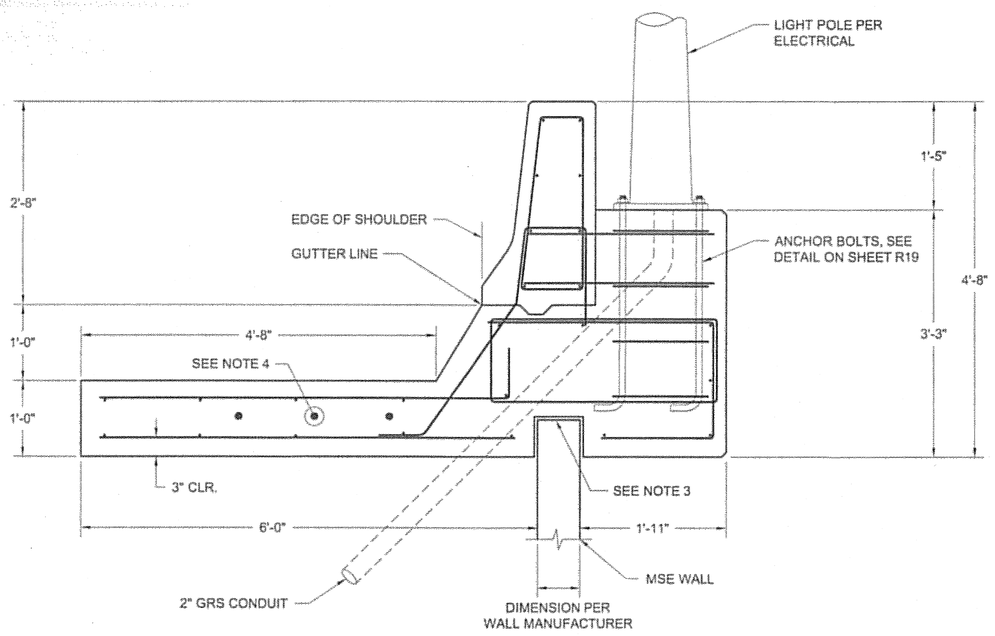
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Construction Details

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J10	269

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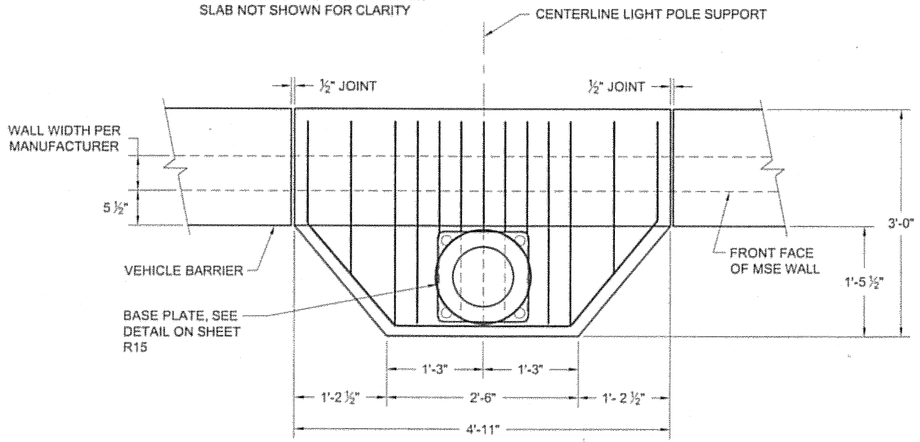
VEHICLE BARRIER AND LIGHT POLE SUPPORT

N.T.S.

NOTES:

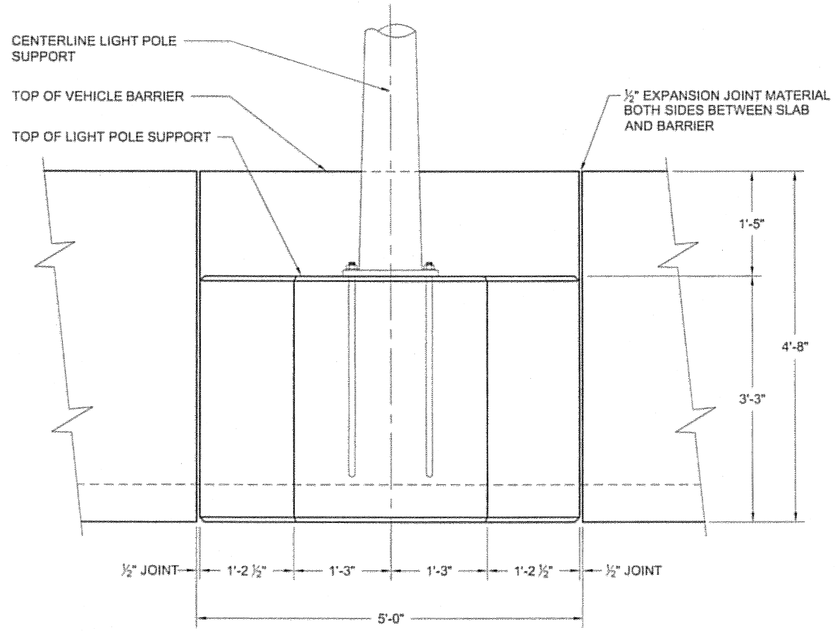
1. ALTERNATE DETAILS MAY BE SUBMITTED FOR APPROVAL.
2. CONTRACTOR SHALL PROVIDE (2) 2" GRS CONDUITS IN THE LIGHT POLE BASE AND SHALL PRE-CAST IN THE BASE WHEN IT IS MANUFACTURED. THE CONDUIT SHALL ENTER AND EXIT LIGHT POLE BASE AT A 45 DEGREE ANGLE AS SHOWN ON ELECTRICAL PLANS ("R" SHEETS) AND SHALL EXTEND 3 FEET BEYOND THE FACE OF THE CONCRETE BARRIER ON THE HIGHWAY SIDE. THE CONDUIT SHALL BE SLOPED DOWNWARD SO THAT THE END OF THE CONDUIT WILL BE 30" MINIMUM BELOW FINISHED GRADE. THE TOP OF THE CONDUIT SHALL NOT EXTEND MORE THAT 1" ABOVE THE TOP OF THE FOUNDATION AND SHALL BE CENTERED INSIDE THE BOLT CIRCLE. SEE ELECTRICAL DETAIL ON SHEET R19.
3. ½" EXPANSION JOINT MATERIAL SHALL BE PROVIDED BETWEEN THE CONCRETE VEHICLE BARRIER AND CONCRETE MSE WALL FACING.
4. PROVIDE (3) #9 SHEAR DOWELS 3' LONG AT EXPANSION JOINTS.
5. MAINTAIN A 2" MINIMUM CLEARANCE ON ALL REINFORCING STEEL UNLESS NOTED OTHERWISE.
6. ACTUAL DIMENSIONS AND REINFORCING STEEL FOR VEHICLE BARRIER AND LIGHT POLE SUPPORT ARE TO BE DETERMINED BY THE WALL MANUFACTURER AND SUBMITTED TO THE ENGINEER FOR APPROVAL.

NOTE:
REBAR IN BARRIER AND JUNCTION SLAB NOT SHOWN FOR CLARITY



PLAN VIEW

N.T.S.



ELEVATION VIEW

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

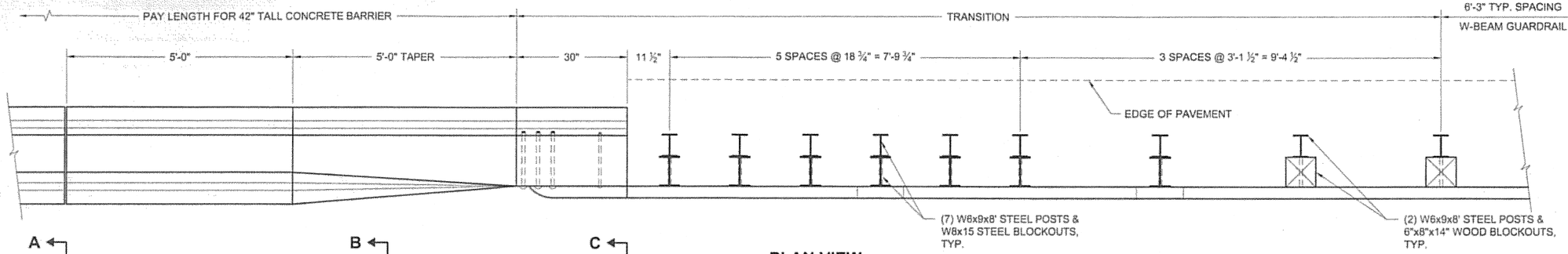
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DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

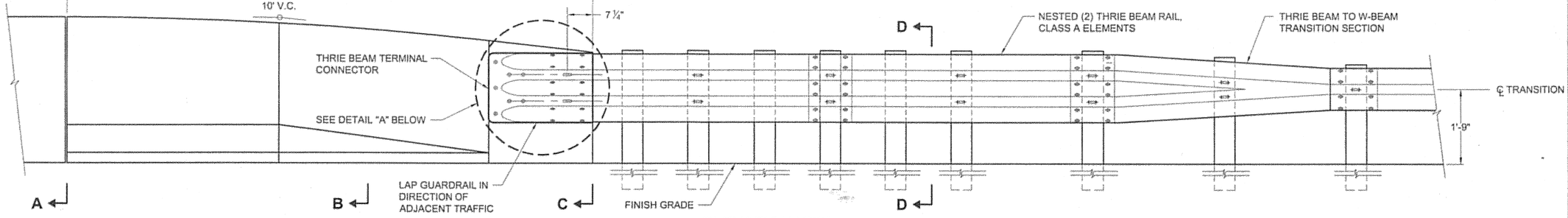
Construction Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
J11	**269**

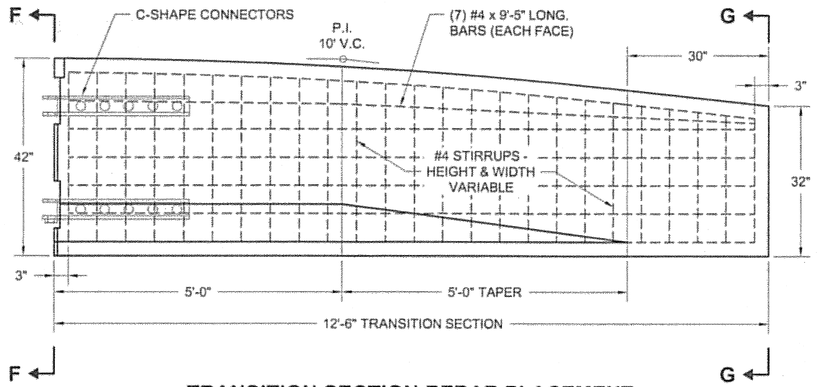
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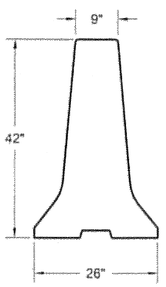
PLAN VIEW
N.T.S.



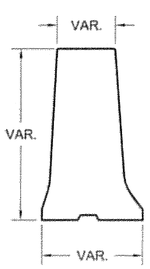
ELEVATION VIEW
N.T.S.



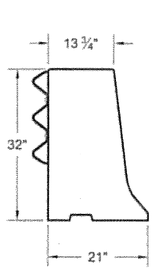
TRANSITION SECTION REBAR PLACEMENT
N.T.S.



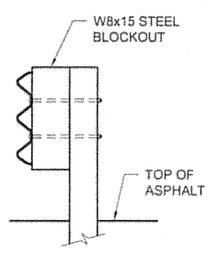
SECTION A-A



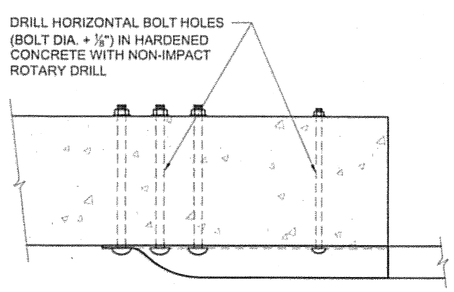
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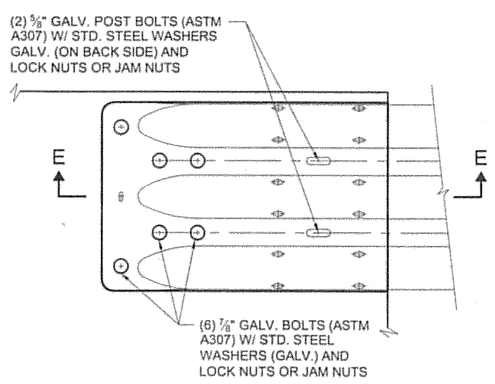
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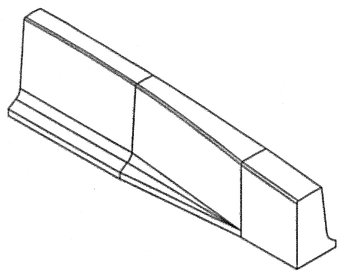
SECTION D-D



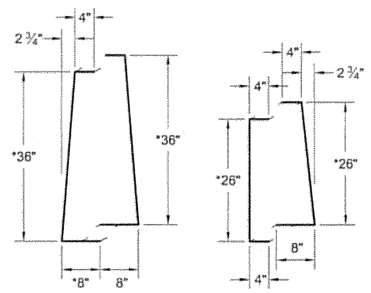
SECTION E-E



DETAIL "A"



TRANSITION SECTION ISOMETRIC VIEW
N.T.S.



SECTION F-F
MODIFIED STIRRUP PAIR (#4 REBAR)

SECTION G-G
MODIFIED STIRRUP PAIR (#4 REBAR)

* DIMENSION VARIABLE THROUGH TRANSITION SECTION.

GENERAL NOTES:

1. ALL REINF. STEEL SHALL CONFORM TO ASTM A706 OF AASHTO M31 (ASTMA615) GRADE 420. ALL BARS SHALL BE FULL LENGTH AS SHOWN AND SHALL BE PLACED 2" CLEAR OF THE NEAREST FACE OF CONCRETE UNLESS SHOWN OTHERWISE.
2. ALL GUARDRAIL AND GUARDRAIL CONNECTION HARDWARE TO CONFORM TO AASHTO M-180. ALL H.S. BOLTS CONFORM TO ASTM A325. ALL OTHER STEEL TO CONFORM TO ASTM A709 GRADE 36.
3. CONFORM TO G-00.01 & G-04.06S FOR ALL GUARDRAIL DETAILS NOT SHOWN.
4. LAP APPROACH GUARDRAIL TO PREVENT SNAGS FROM ONCOMING TRAFFIC.
5. PROVIDE 4 ½" HORIZONTAL SLOT IN APPROACH GUARDRAIL. ADJUST GUARDRAIL BOLTS FOR SLIDING FIT.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER — 8-4-06

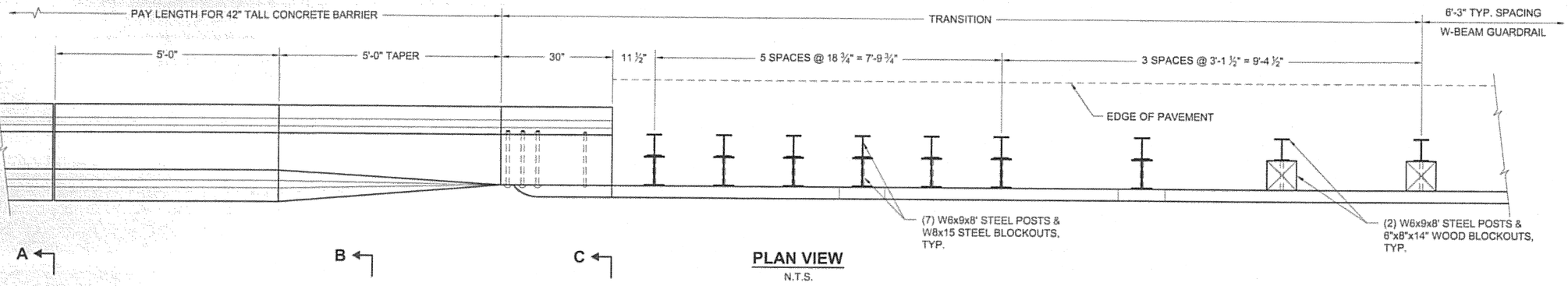
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

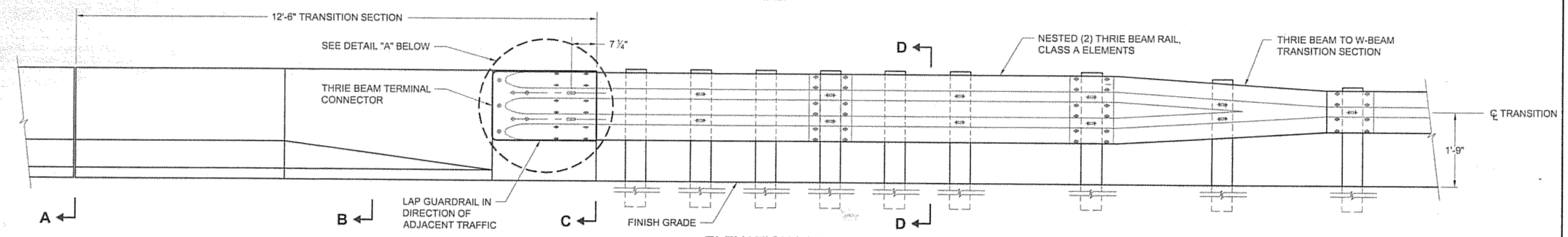
Construction Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
J12	**269**

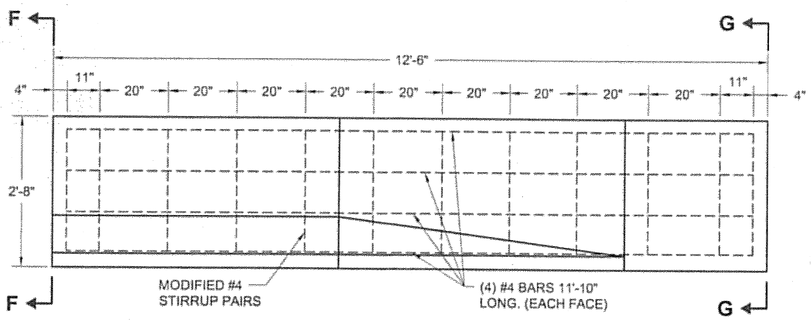
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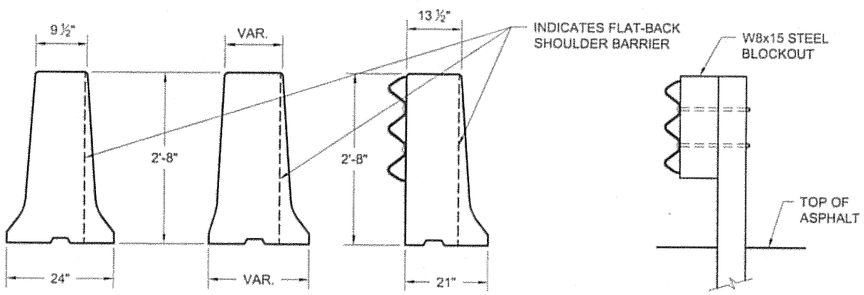
PLAN VIEW
N.T.S.



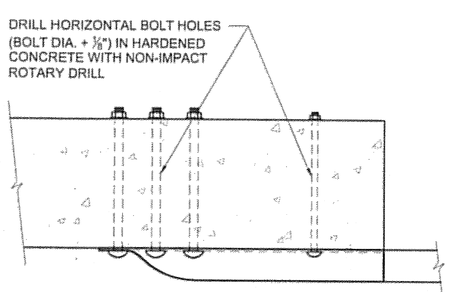
ELEVATION VIEW
N.T.S.



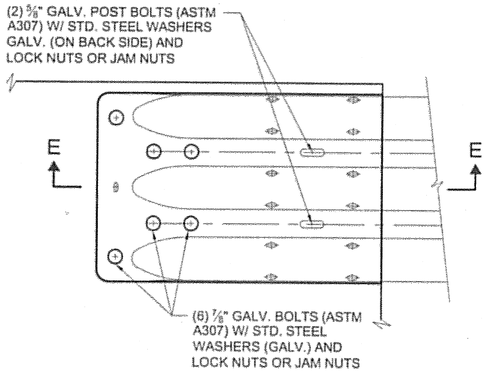
TRANSITION SECTION REBAR PLACEMENT
N.T.S.



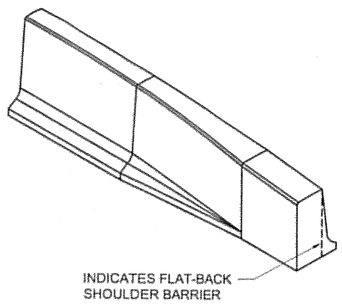
SECTION A-A **SECTION B-B** **SECTION C-C** **SECTION D-D**



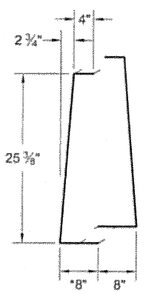
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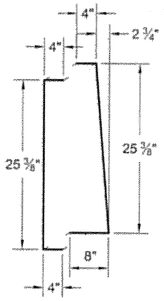
DETAIL "A"



TRANSITION SECTION ISOMETRIC VIEW
N.T.S.



MODIFIED STIRRUP PAIR (#4 REBAR)
SECTION F-F



MODIFIED STIRRUP PAIR (#4 REBAR)
SECTION G-G

* DIMENSION VARIABLE THROUGH TRANSITION SECTION.

GENERAL NOTES:

1. ALL REINF. STEEL SHALL CONFORM TO ASTM A706 OF AASHTO M31 (ASTM615) GRADE 420. ALL BARS SHALL BE FULL LENGTH AS SHOWN AND SHALL BE PLACED 2" CLEAR OF THE NEAREST FACE OF CONCRETE UNLESS SHOWN OTHERWISE.
2. ALL GUARDRAIL AND GUARDRAIL CONNECTION HARDWARE TO CONFORM TO AASHTO M-180. ALL H.S. BOLTS CONFORM TO ASTM A325. ALL OTHER STEEL TO CONFORM TO ASTM A709 GRADE 36.
3. CONFORM TO G-00.01 & G-04.06S FOR ALL GUARDRAIL DETAILS NOT SHOWN.
4. PIN CONCRETE BARRIER TO ROADWAY PER STD. DWG. G-46.10.
5. SEE STD. DWG. G-46.10 FOR CONCRETE BARRIER CONNECTION DETAILS NOT SHOWN HERE.
6. LAP APPROACH GUARDRAIL TO PREVENT SNAGS FROM ONCOMING TRAFFIC.
7. PROVIDE 4 ½" HORIZONTAL SLOT IN APPROACH GUARDRAIL. ADJUST GUARDRAIL BOLTS FOR SLIDING FIT.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH STATE — Joseph M. Pusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER — 8-4-06

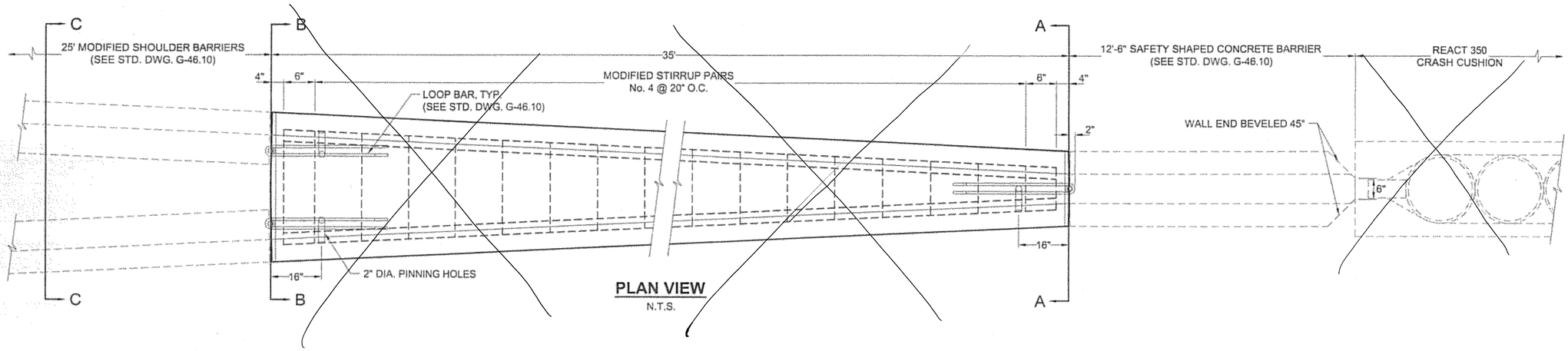
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

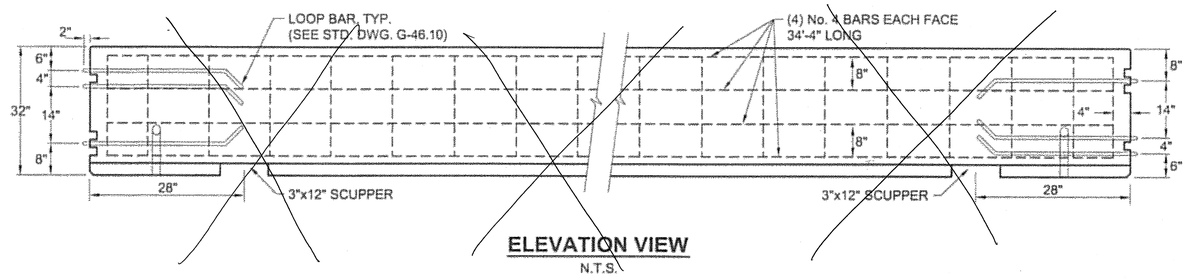
Construction Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
J13	**269**

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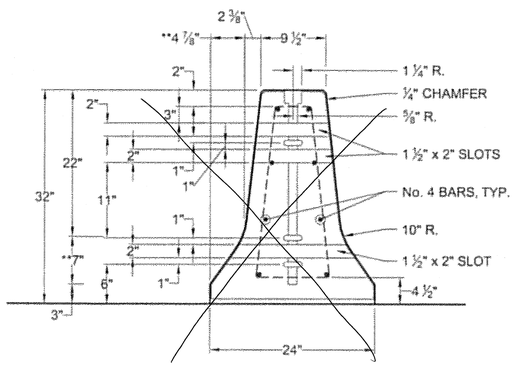
PLAN VIEW
N.T.S.



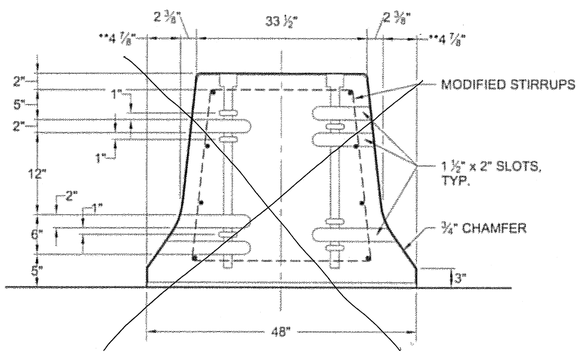
ELEVATION VIEW
N.T.S.

GENERAL NOTES:

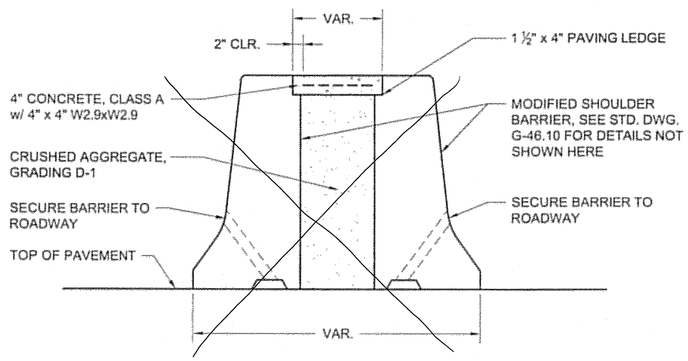
1. SEE STANDARD DRAWING G-46.10 FOR DETAILS NOT SHOWN.
2. FIELD VERIFY END CONFIGURATIONS OF NARROW BASE BARRIER AND STANDARD PRECAST BARRIER PRIOR TO FORMING CONNECTIONS TO TRANSITION.
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A706 OR AASHTO M31 (ASTM A615) GRADE 420.
4. ALL METAL REINFORCING STEEL SHALL BE 1 ½" (MIN.) CLEAR OF NEAREST FACE OF CONCRETE, UNLESS OTHERWISE SHOWN.



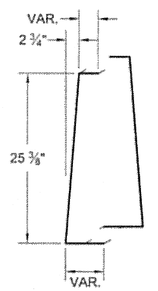
SECTION A-A



SECTION B-B



SECTION C-C



MODIFIED STIRRUP PAIR (#4 REBAR)

** DIMENSIONS MARKED THUS ARE TO THE INTERSECTION POINT OF THE BARRIER SLOPES. CONSTRUCT 10" RADIUS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE SLOPES.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/14/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
PROFESSIONAL ENGINEER
6-14-06

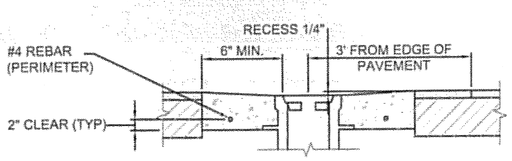
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Construction Details

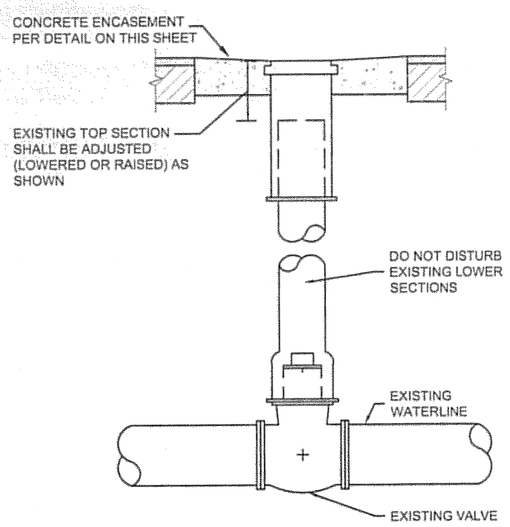
PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J14	269

J:\2005\051451\Design Drawings\J-Construction Details.DWG PLOT: August 04, 2006 at: 3:54pm



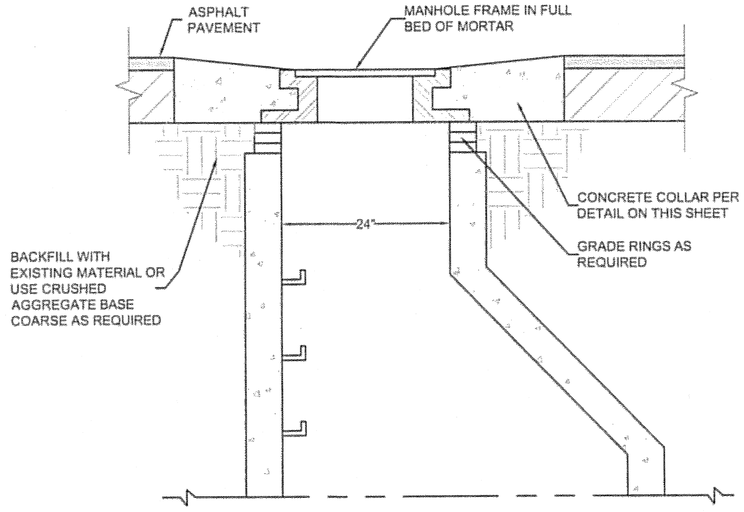
SECTION
MONTUMENT ENCASEMENT DETAIL

N.T.S.



VALVE BOX ADJUSTMENT DETAIL

N.T.S.



NOTES:

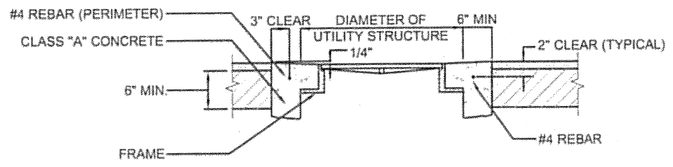
1.) MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.

2.) CONCRETE COLLAR IS NOT REQUIRED IF MANHOLE, MONUMENTS OR VALVE BOX ARE LOCATED OFF THE ROADWAY.

3.) REFER TO PLAN SHEETS FOR APPROXIMATE LOCATION.

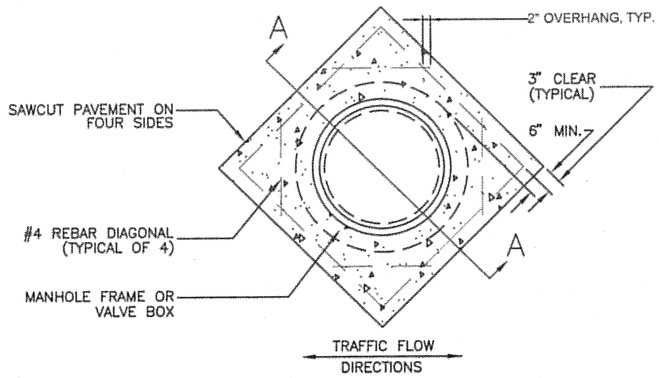
SANITARY SEWER MANHOLE COLLAR

N.T.S.



SECTION A-A

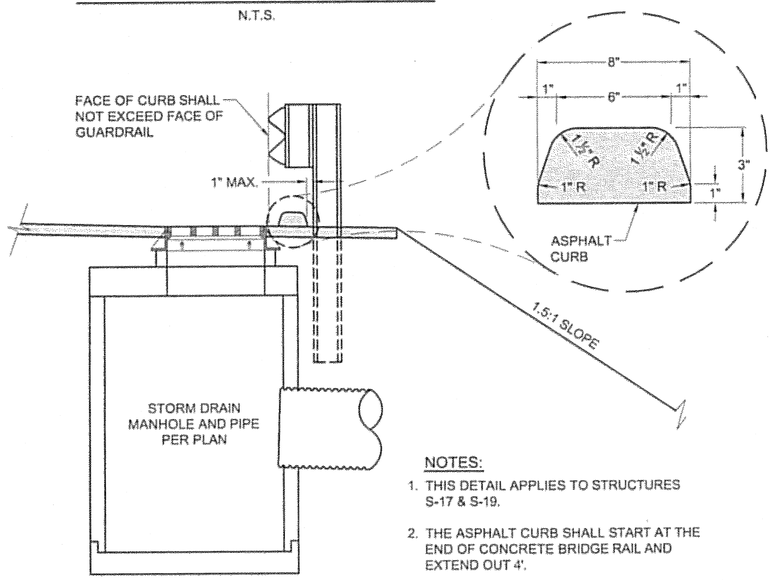
N.T.S.



PLAN

CONCRETE COLLAR DETAIL

N.T.S.

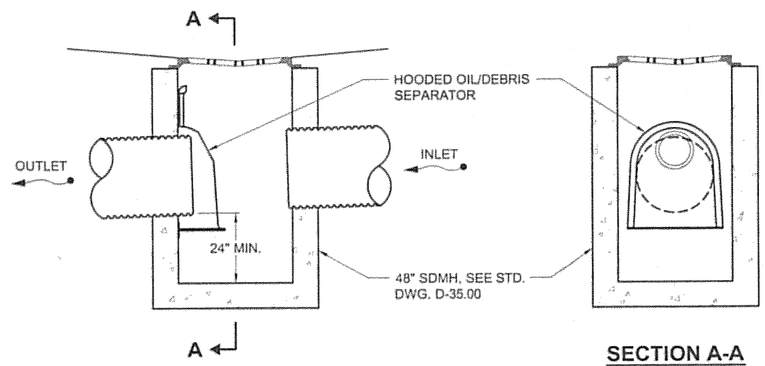


NOTES:

1. THIS DETAIL APPLIES TO STRUCTURES S-17 & S-19.
2. THE ASPHALT CURB SHALL START AT THE END OF CONCRETE BRIDGE RAIL AND EXTEND OUT 4'.

INLET AT BRIDGE DETAIL

N.T.S.



SECTION A-A

N.T.S.

PETROLEUM SEPARATOR DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

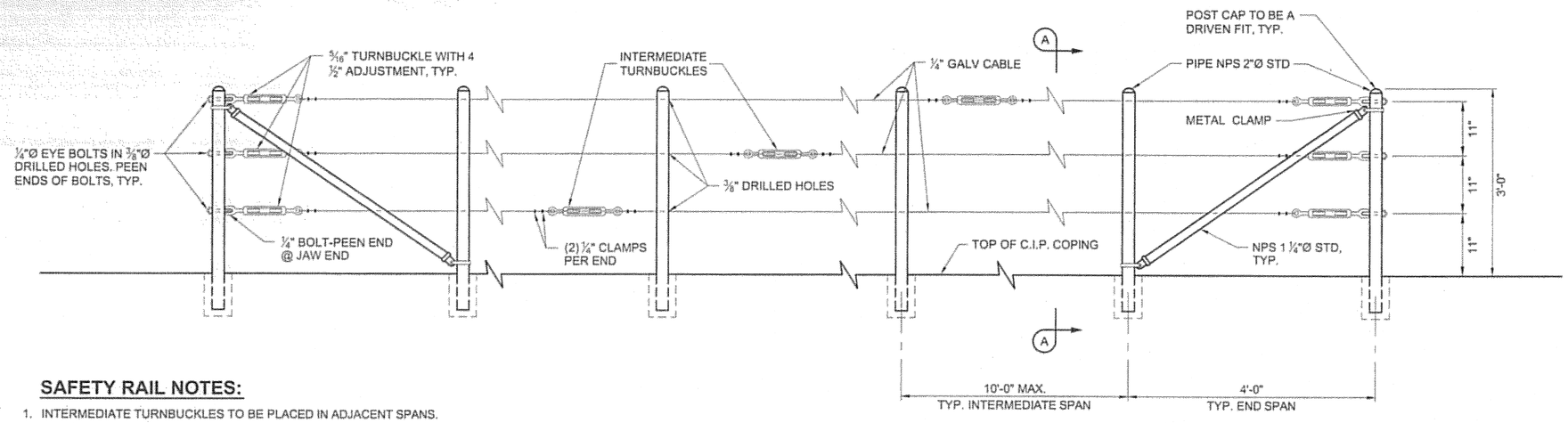
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Construction Details
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

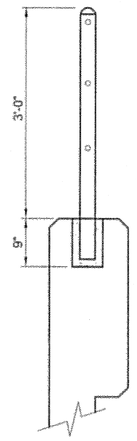
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J15	269

A:\2003\051865\Design Drawings\J-Construction Details.DWG PLOT: August 04, 2006 at: 1:48pm



SAFETY RAIL ELEVATION

N.T.S.

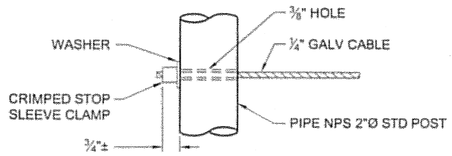


SECTION "A-A"

N.T.S.

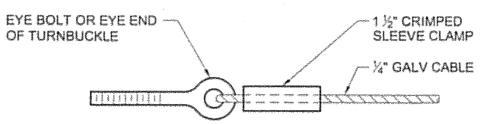
SAFETY RAIL NOTES:

1. INTERMEDIATE TURNBUCKLES TO BE PLACED IN ADJACENT SPANS.
2. DO NOT SPLICE CABLE BETWEEN INTERMEDIATE TURNBUCKLES AND END POSTS.
3. ALL POSTS, CABLE AND HARDWARE TO BE GALVANIZED.
4. POSTS TO BE PLUMB.
5. ALIGNMENT OF HOLES IN POSTS MAY VARY TO CONFORM TO SLOPE OF TOP OF RETAINING WALL.
6. VERIFY ALL CONTROLLING DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.
7. LINE POSTS SHALL BE BRACED HORIZONTALLY AND TRUSSED DIAGONALLY IN BOTH DIRECTIONS, AT EACH END.
8. POST POCKETS TO BE CENTERED IN TOP OF COPING.
9. PROVIDE THIMBLES AT ALL CABLE LOOPS.
10. DO NOT PLACE POST DIRECTLY BENEATH GIRDER BOTTOM FLANGES.



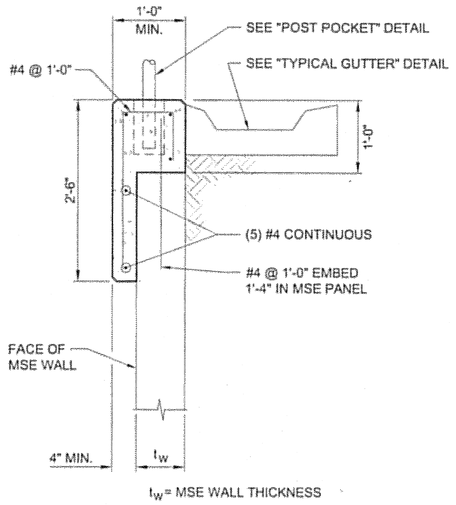
ALTERNATE DEAD END ANCHORAGE

N.T.S.



ALTERNATE CABLE CONNECTION

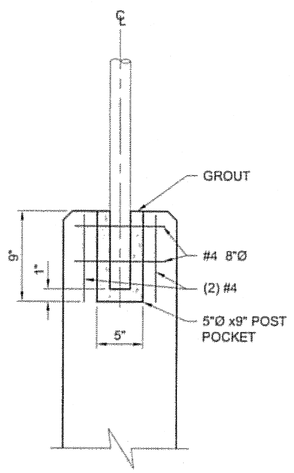
N.T.S.



NOTE:
ALTERNATE DETAILS MAY BE SUBMITTED FOR APPROVAL.

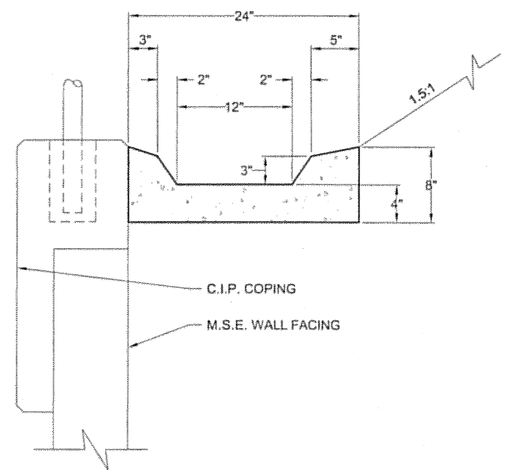
C.I.P. COPING DETAIL

N.T.S.



POST POCKET DETAIL

N.T.S.



NOTE:
ALTERNATE DETAILS MAY BE SUBMITTED FOR APPROVAL.

TYPICAL GUTTER DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

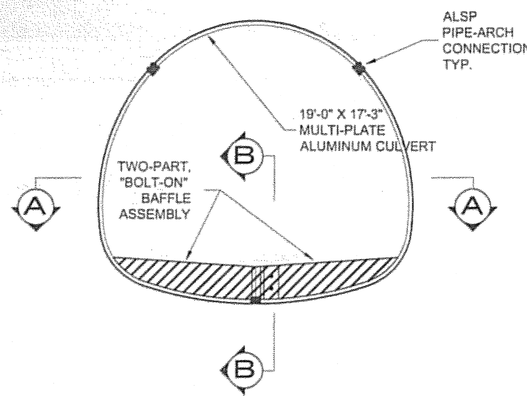
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

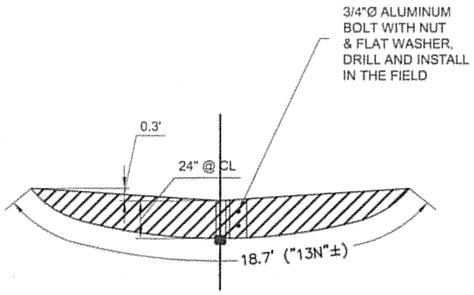
Construction Details
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J16	269

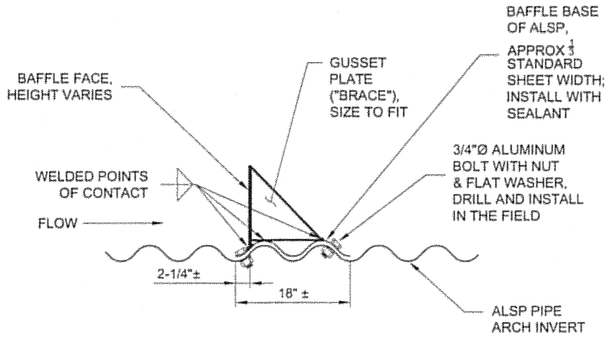
A:\2005\051A61\Design Drawings\J-Construction Details.DWG PLOT: August 04, 2006 at: 1:48pm



TWO-PIECE BAFFLE ASSEMBLY



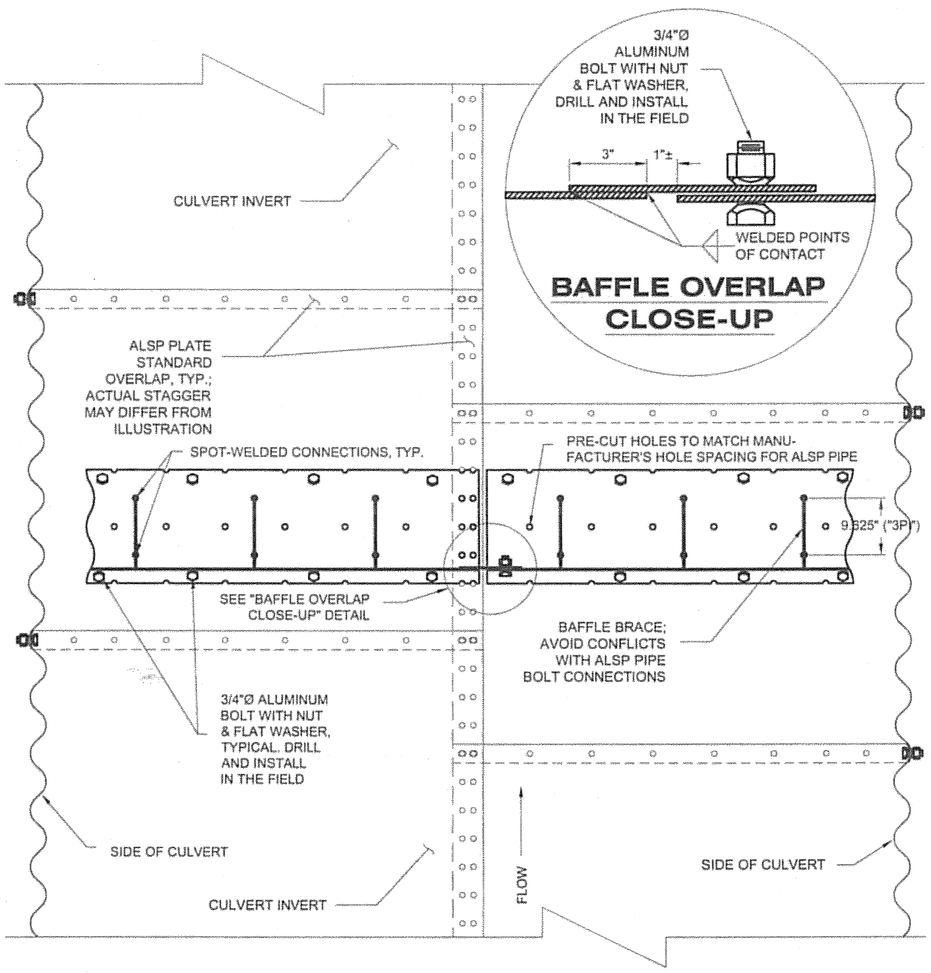
BAFFLE DETAIL



BAFFLE SECTION B-B

BAFFLE NOTES:

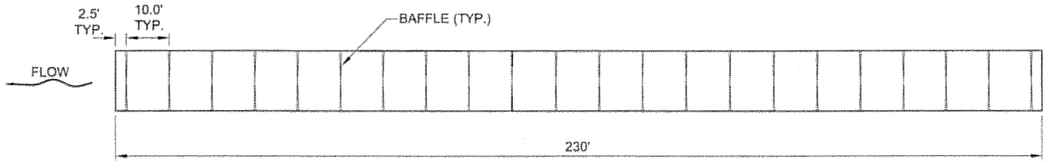
1. ALL BAFFLES AND BRACES SHALL BE MANUFACTURED FROM ¼" SHEET MATERIAL.
2. EACH BAFFLE SHALL HAVE A MINIMUM OF 6 BRACES.
3. ALL DIMENSIONS ON THIS SHEET ARE NOMINAL- BAFFLES SHALL BE MANUFACTURED TO FIT PARTICULAR PIPE.



BAFFLE SECTION A-A

BAFFLE NOTES:

1. BAFFLE-PIPE INTERFACE SHALL BE WATER-TIGHT TO THE EXTENT PRACTICABLE. USE MASTIC/SEALANT AT CONNECTIONS THAT IS COMPATIBLE (AND NON-CORROSIVE) TO THE ALSP ARCH AND APPURTENANT HARDWARE.



P-2 & P-3 BAFFLE PLAN LAYOUT

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

P-2 & P-3 Retention Baffle Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

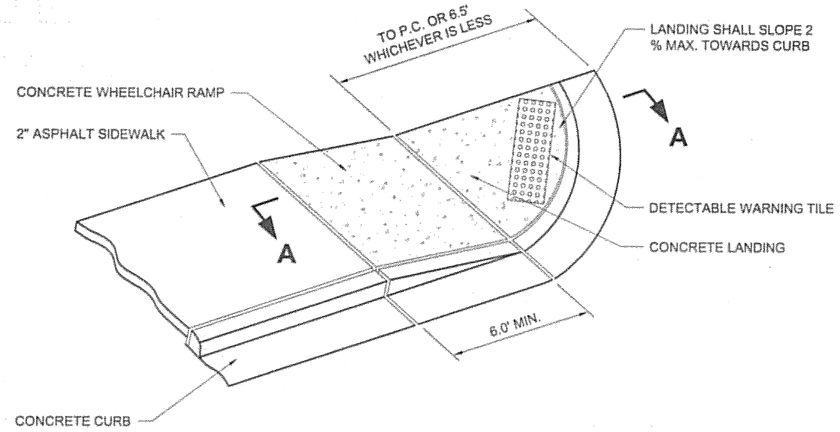
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

P-2 & P-3
Retention Baffle Details

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

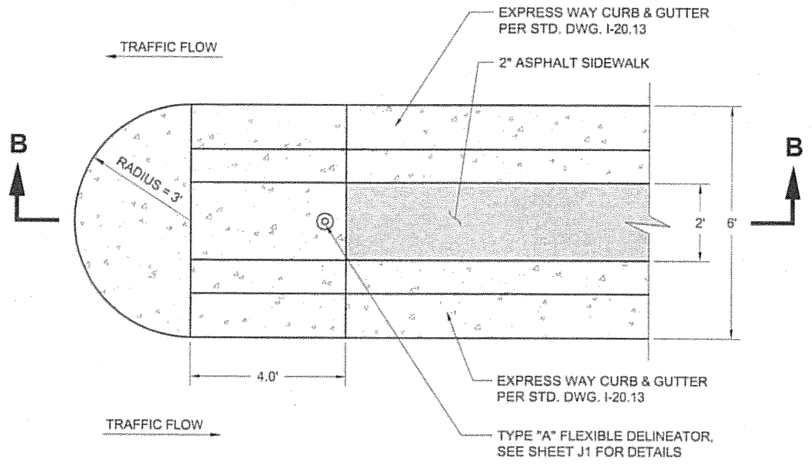
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J17	269

I:\2005\051365\Design Drawings\J-Fish Pipes.dwg PLOT: August 04, 2006 at: 1:45pm



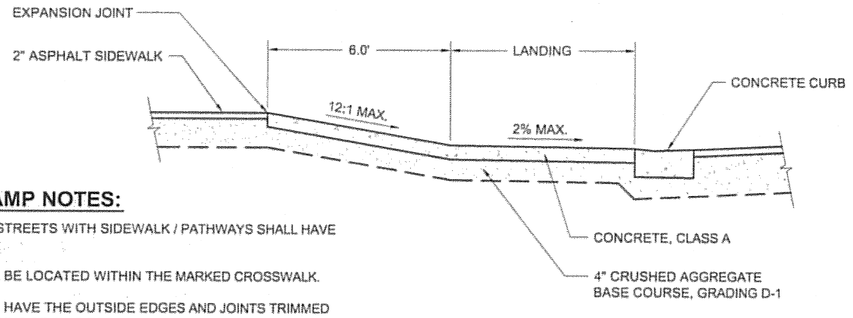
PARALLEL CURB RAMP DETAIL

N.T.S.



"G" LINE RAMPED MEDIAN END DETAIL

N.T.S.

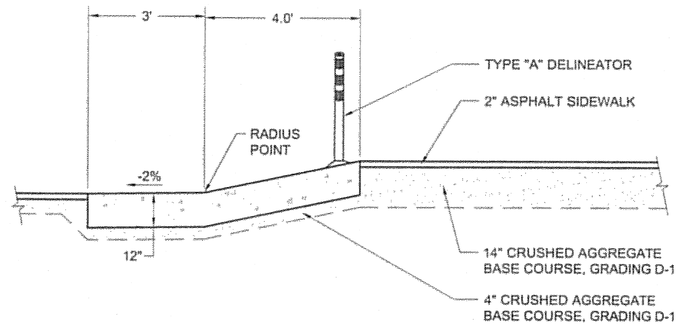


CURB RAMP NOTES:

1. ALL CURBED STREETS WITH SIDEWALK / PATHWAYS SHALL HAVE CURB RAMPS.
2. RAMPS SHALL BE LOCATED WITHIN THE MARKED CROSSWALK.
3. RAMPS SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A ¼" RADIUS EDGING TOOL.
4. REFERENCE STANDARD DRAWINGS I-20.13, I-21.01 AND I-22.01, FOR ALL OTHER CURB RAMP DESIGNS.

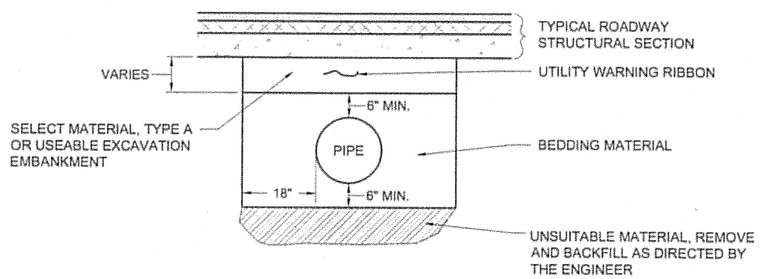
SECTION A-A

N.T.S.



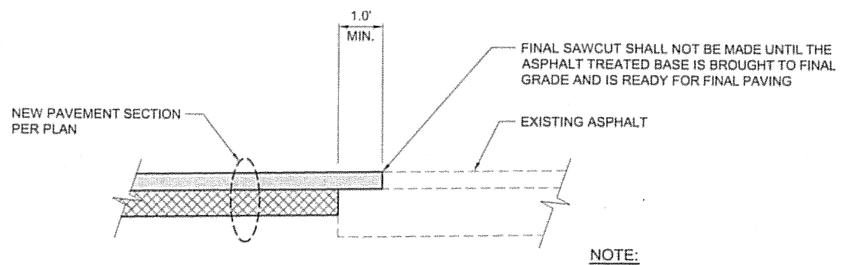
SECTION B-B

N.T.S.



TYPICAL PIPE TRENCHING & BEDDING DETAIL

N.T.S.



NOTE:
SAWCUTS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO SEPARATE PAYMENT SHALL BE MADE.

PAVEMENT JOINT DETAIL

N.T.S.

TO BE USED WHEREVER MATCHING EXISTING PAVEMENT

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
8-4-06

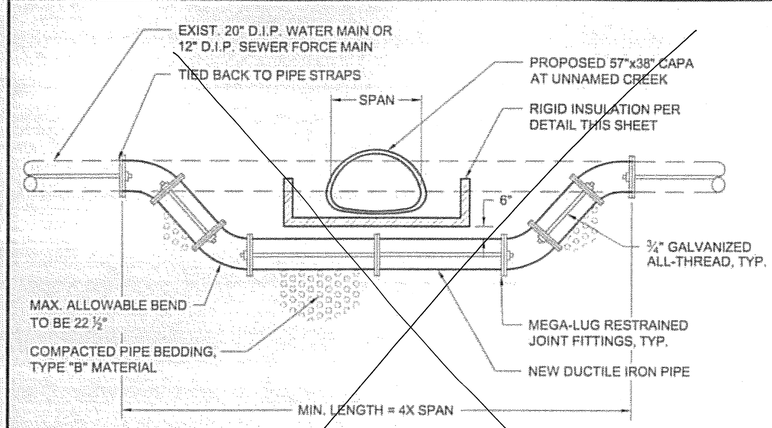
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Construction Details
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J2	269

C:\2005\051A61\Design Drawings\J-Construction Details.DWG PLOT: August 04, 2006 at: 1:46pm

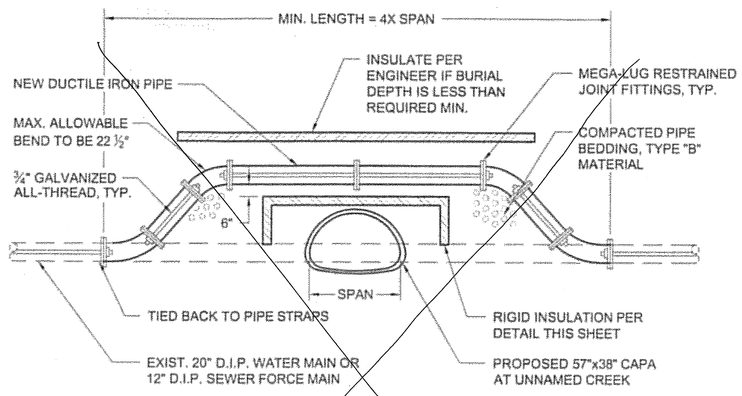


NOTES:

1. CONTRACTOR SHALL DETERMINE THE EXISTING UTILITY ELEVATION AT THE STORM DRAIN CROSSING PRIOR TO BEGINNING STORM DRAIN INSTALLATION TO DETERMINE REQUIRED PIPE DEFLECTIONS.
2. USE BELL TO FLANGE ADAPTER OF TYPE RECOMMENDED BY THE MANUFACTURER OF PIPE BEING RELOCATED.

UTILITY RELOCATION UNDER PIPE DETAIL

N.T.S.

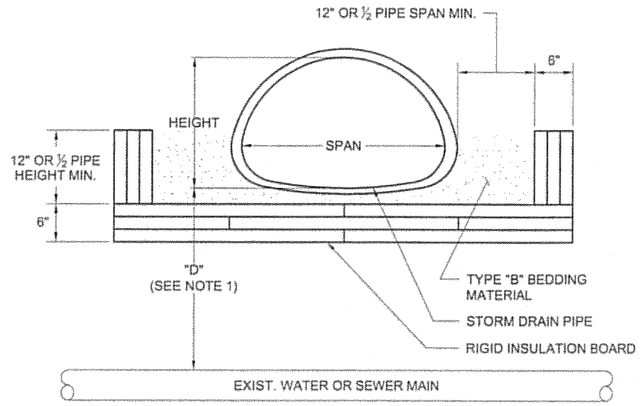


NOTES:

1. CONTRACTOR SHALL DETERMINE THE EXISTING UTILITY ELEVATION AT THE STORM DRAIN CROSSING PRIOR TO BEGINNING STORM DRAIN INSTALLATION TO DETERMINE REQUIRED PIPE DEFLECTIONS.
2. USE BELL TO FLANGE ADAPTER OF TYPE RECOMMENDED BY THE MANUFACTURER OF PIPE BEING RELOCATED.

UTILITY RELOCATION OVER PIPE DETAIL

N.T.S.

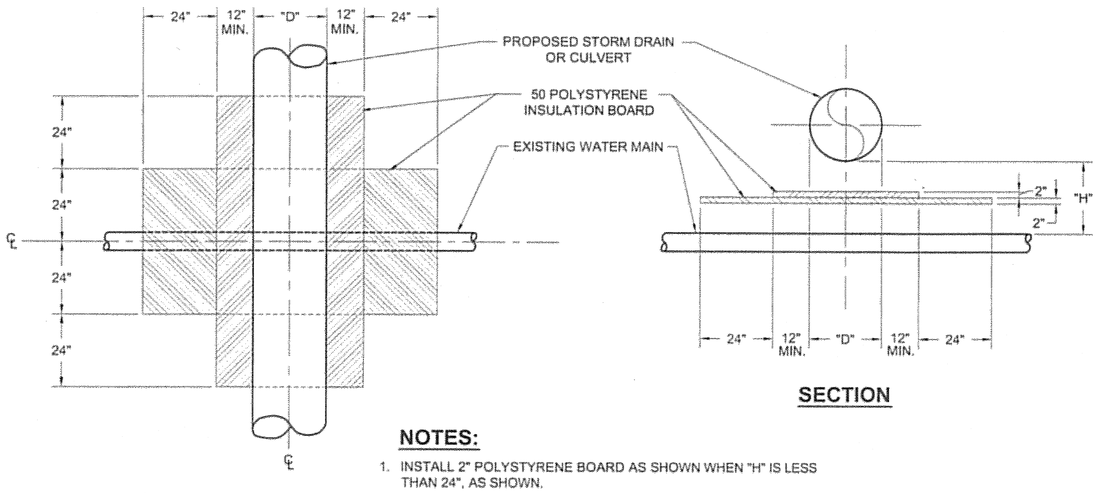


NOTES:

1. INSTALL INSULATION AS SHOWN WHEN "D" IS LESS THAN 5'-0" FOR WATER PIPE OR 3'-8" FOR SEWER PIPE.
2. PIPE INSULATION SHALL BE 8'-0" IN LENGTH, CENTERED OVER EXISTING WATER OR SEWER PIPE.
3. PIPE INSULATION WITH R-FACTOR EQUAL TO RIGID BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
4. INSULATION BOARDS SHALL OVERLAP 12" AS SHOWN IN DRAWING.

INSULATION DETAIL

N.T.S.



PLAN

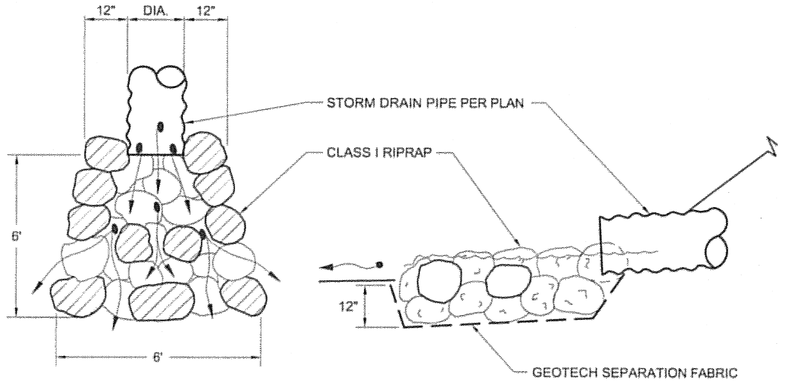
SECTION

NOTES:

1. INSTALL 2" POLYSTYRENE BOARD AS SHOWN WHEN "H" IS LESS THAN 24", AS SHOWN.
2. WRAPAROUND INSULATION WITH AN R-VALUE EQUAL TO 4" OF RIGID INSULATION BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
3. ALL WATER LINES SHOWN ON THESE PLANS AND INSULATION BOARD INSTALLATION LOCATIONS GIVEN ARE APPROX. ONLY.

WATER LINE INSULATION AT CULVERT DETAIL

N.T.S.



PLAN

SECTION

OUTFALL PROTECTION DETAIL

N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/16

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER

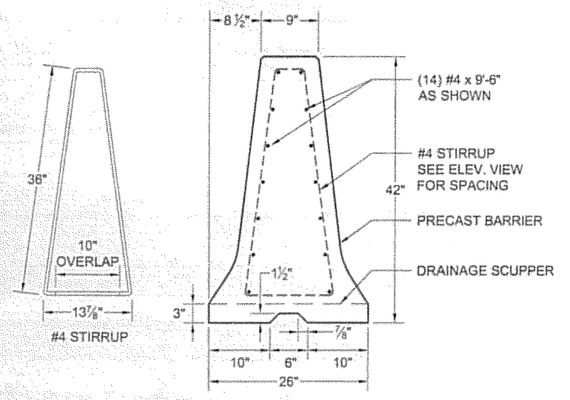
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

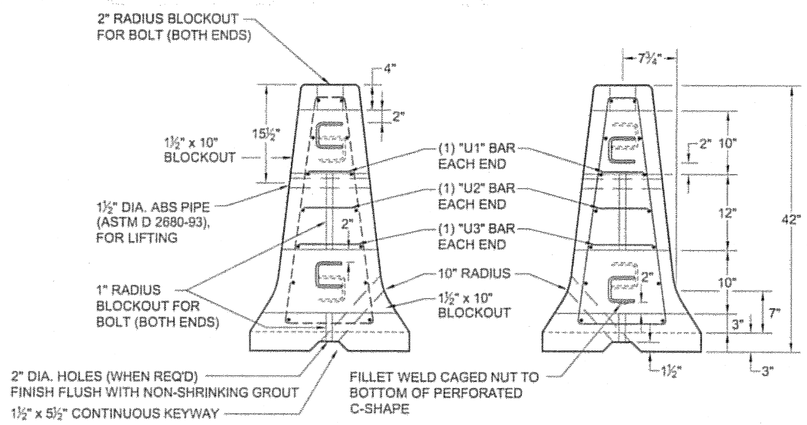
Construction Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
J3	**269**

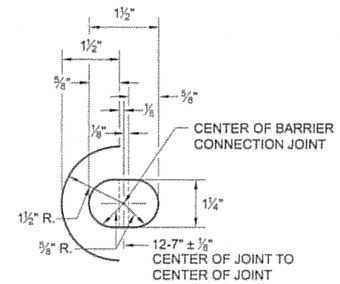
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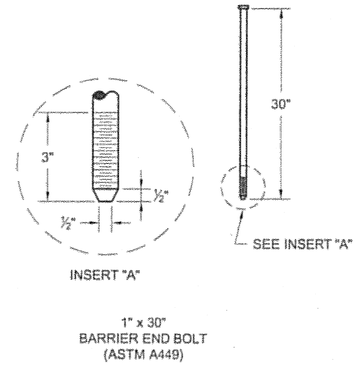
TYPICAL SECTION A-A



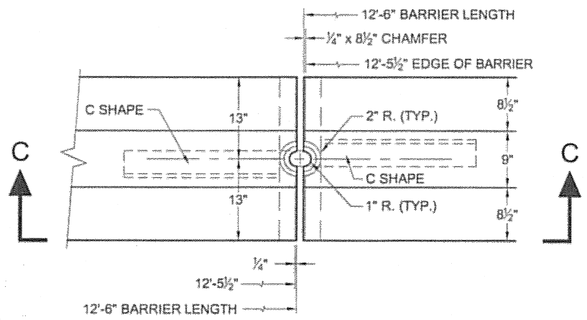
END VIEW A-A **END VIEW B-B**



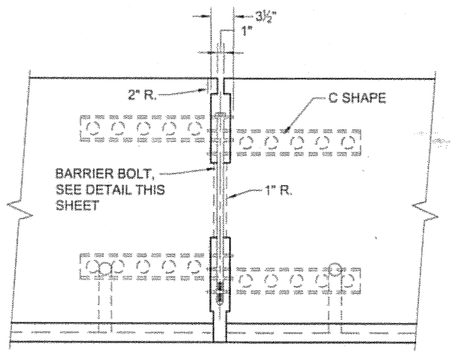
HOLE DETAIL



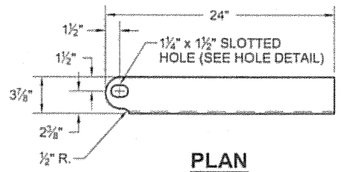
BOLT DETAILS



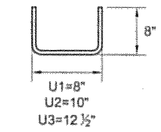
PLAN



SECTION C-C

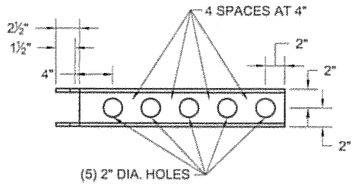


PLAN



U-BAR DETAIL

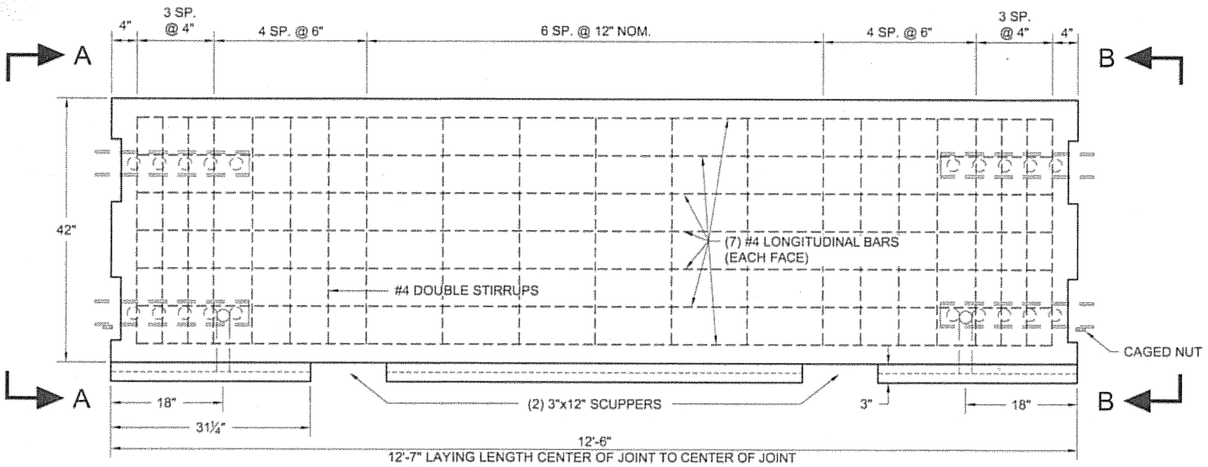
#4 BAR



ELEVATION

PERFORATED C-SHAPE

NOTE:
CUT 5/16" THICK STEEL PLATE OR BAR (AASHTO M183, ASTM A36).
HOT DIP GALVANIZE AFTER FABRICATION



ELEVATION

CONCRETE BARRIER

N.T.S.

BARRIER NOTES:

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A706 OR AASHTO M31 (ASTM A615) GRADE 420. ALL BARS SHALL BE FULL LENGTH AS SHOWN AND SHALL BE PLACED 2" CLEAR OF THE NEAREST FACE OF CONCRETE UNLESS SHOWN OTHERWISE.
2. ALL STRUCTURAL STEEL INCLUDING FASTENERS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
3. CHAMFER ALL EDGES ¾" (TYPICAL).
4. PERFORATED C-SHAPE SHALL BE PLACED IN LOCATION SHOWN TO A TOLERANCE OF 3/32".
5. CONCRETE SHALL BE AIR ENTRAINED WITH MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
6. CONCRETE GROUT FOR GROUTING OVER PINS OR PINNING HOLES SHALL BE A NON-SHRINKING GROUT.
7. CONTRACTOR HAS OPTION TO CAST IN PLACE AND WILL HAVE TO SUBMIT A CAST IN PLACE BARRIER PLAN FOR REVIEW AND APPROVAL TO THE ENGINEER.
8. BARRIER FINISH TO BE SMOOTH SURFACE.

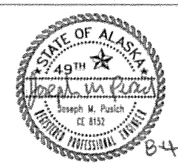
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN



CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

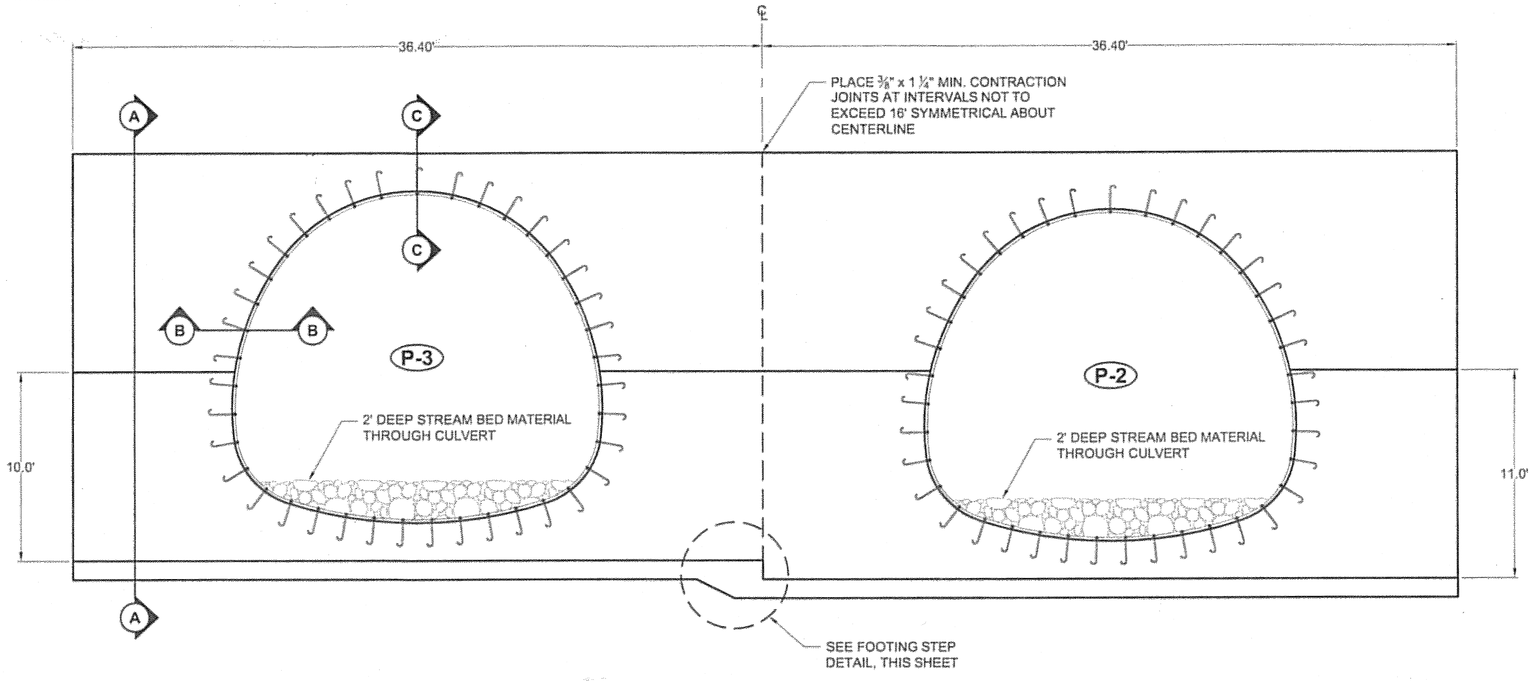
Construction Details
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J4	269

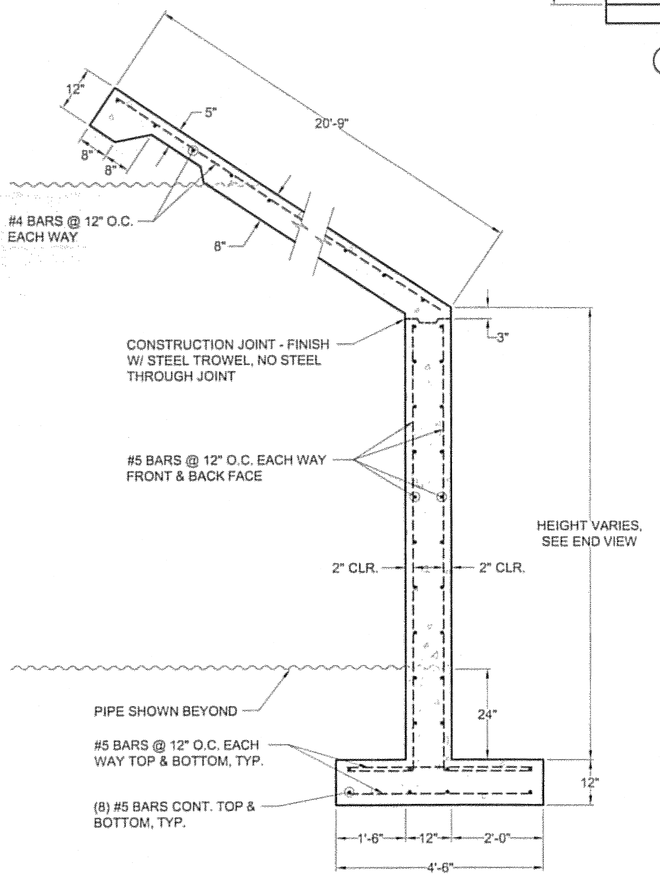
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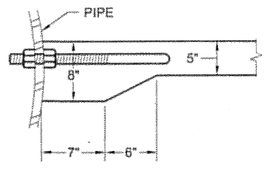
1. CONCRETE SHALL CONFORM TO SECTION 501. CHAMFER ALL EXPOSED EDGES ¾" AND FINISH ALL EXPOSED SURFACES WITH AN ORDINARY FINISH.
2. CLEARANCE FOR REINFORCING STEEL IS 2" UNLESS OTHERWISE NOTED.
3. SET HOOK BOLTS ON 18" CENTERS AROUND PIPE PERIMETER. HOOK BOLTS SHALL CONFORM TO ASTM A307. GALVANIZE ACCORDING TO ASTM A153.



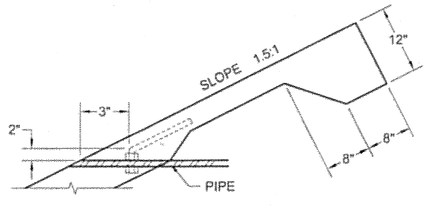
HEADWALL END VIEW - LOOKING UPSTREAM
N.T.S.



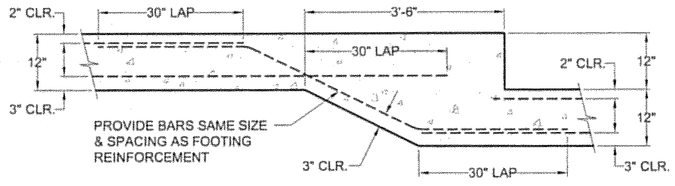
SECTION "A-A"
N.T.S.



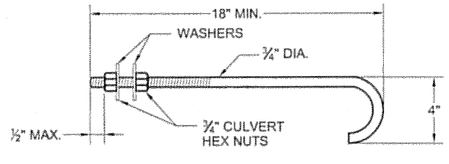
SECTION "B-B"
N.T.S.



SECTION "C-C"
N.T.S.



FOOTING STEP DETAIL
N.T.S.



HOOK BOLT DETAIL
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Headwall Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

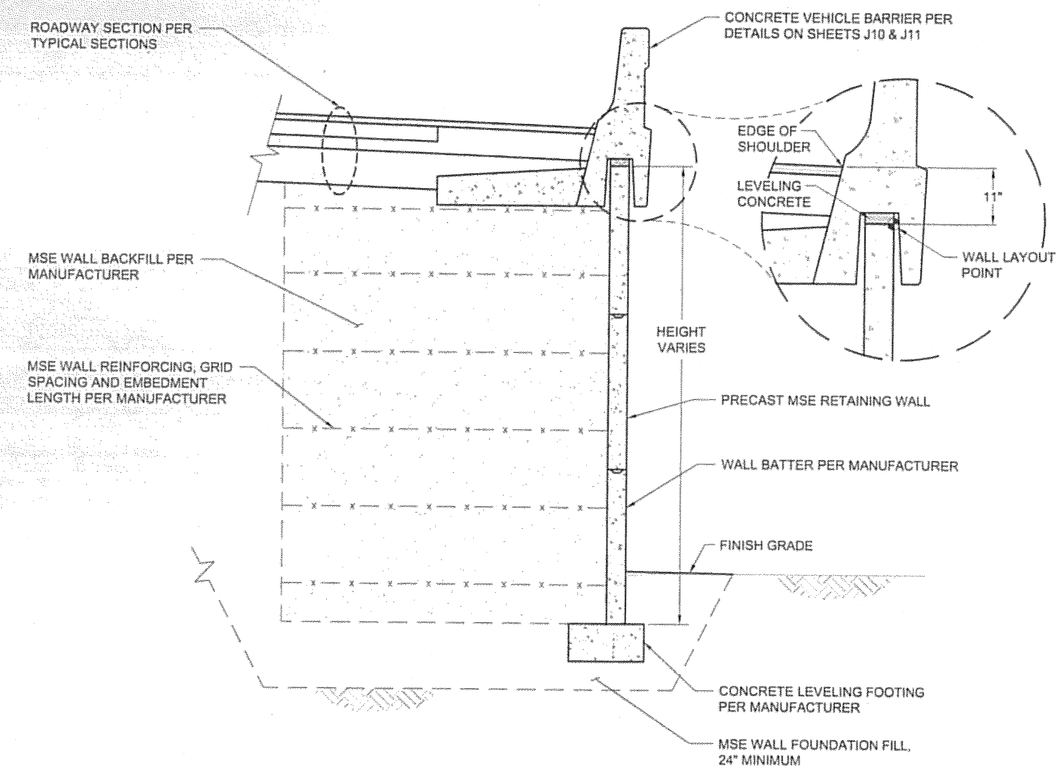
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Headwall Details

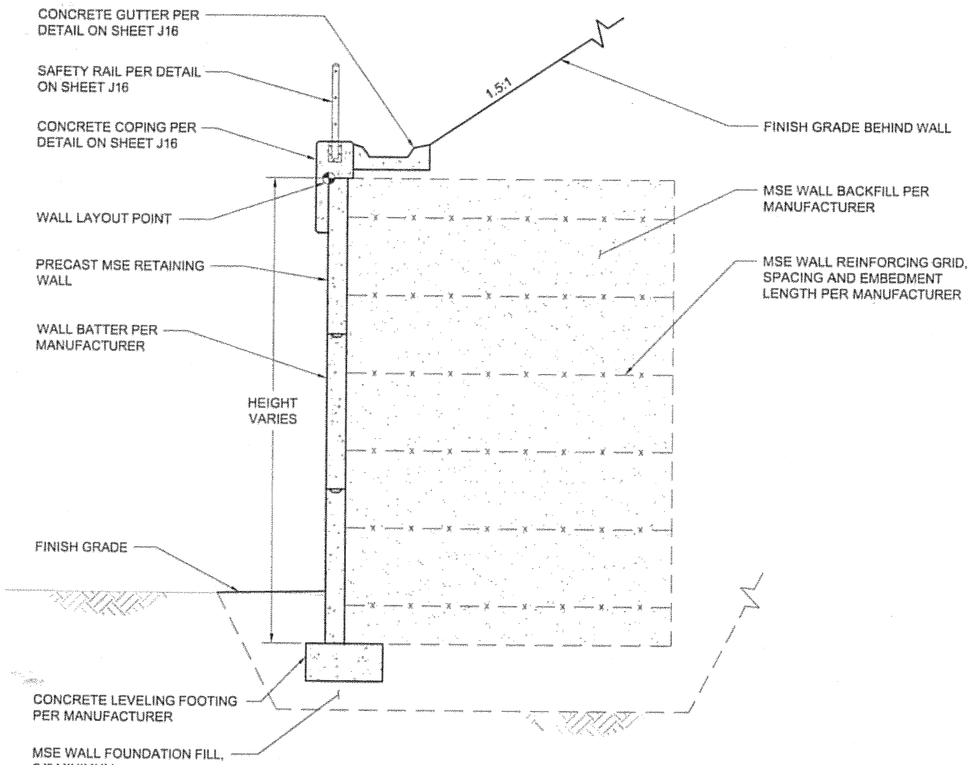
PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J5	269

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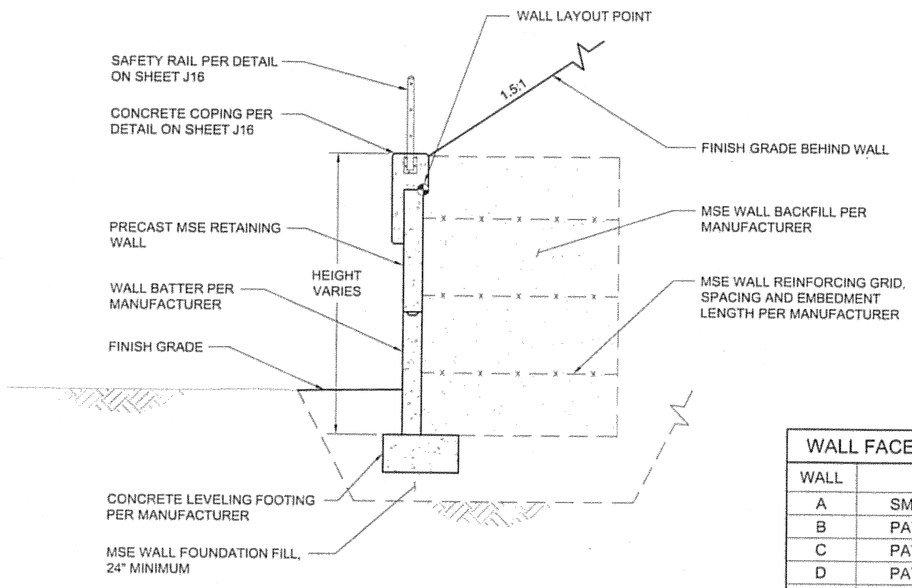
MSE RETAINING WALL SECTION WITH PRECAST VEHICLE BARRIER

(1) N.T.S.



MSE RETAINING WALL SECTION WITH CONCRETE COPING & GUTTER

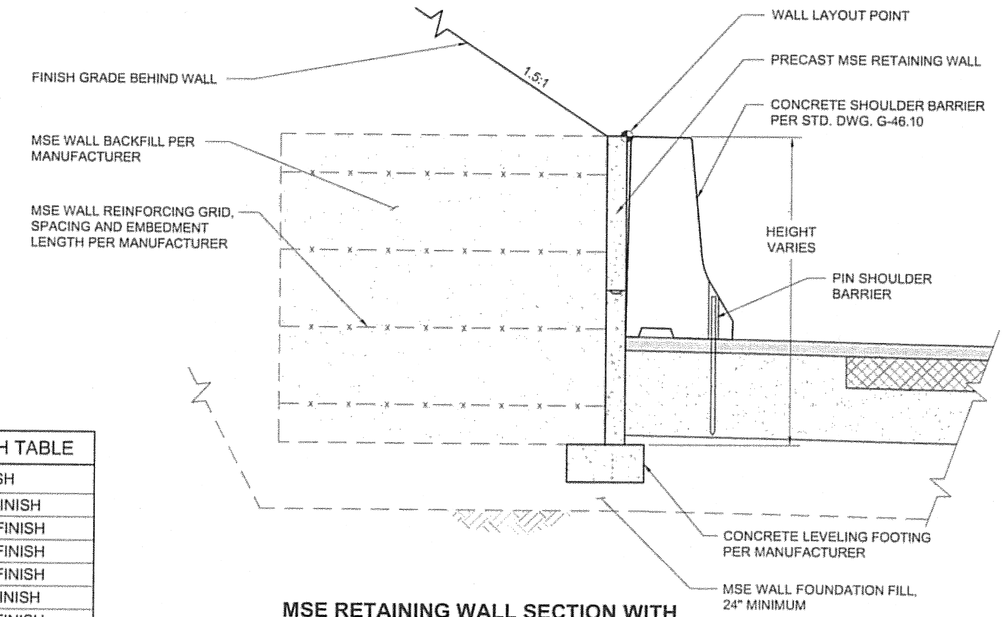
(2) N.T.S.



MSE RETAINING WALL SECTION

(3) N.T.S.

WALL FACE FINISH TABLE	
WALL	FINISH
A	SMOOTH FINISH
B	PATTERN FINISH
C	PATTERN FINISH
D	PATTERN FINISH
E	SMOOTH FINISH
F	PATTERN FINISH
G	PATTERN FINISH



MSE RETAINING WALL SECTION WITH CONCRETE SHOULDER BARRIER

(4) N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

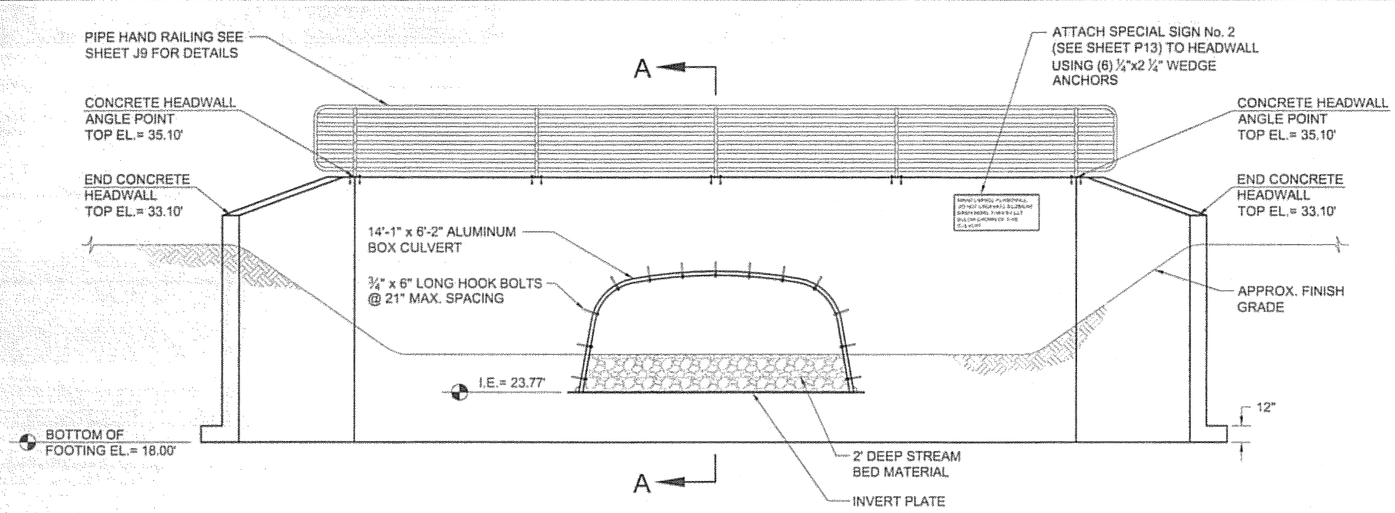
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Construction Details

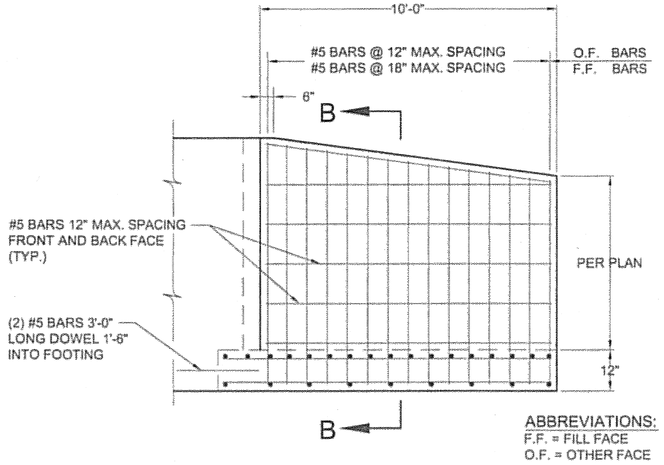
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J6	269

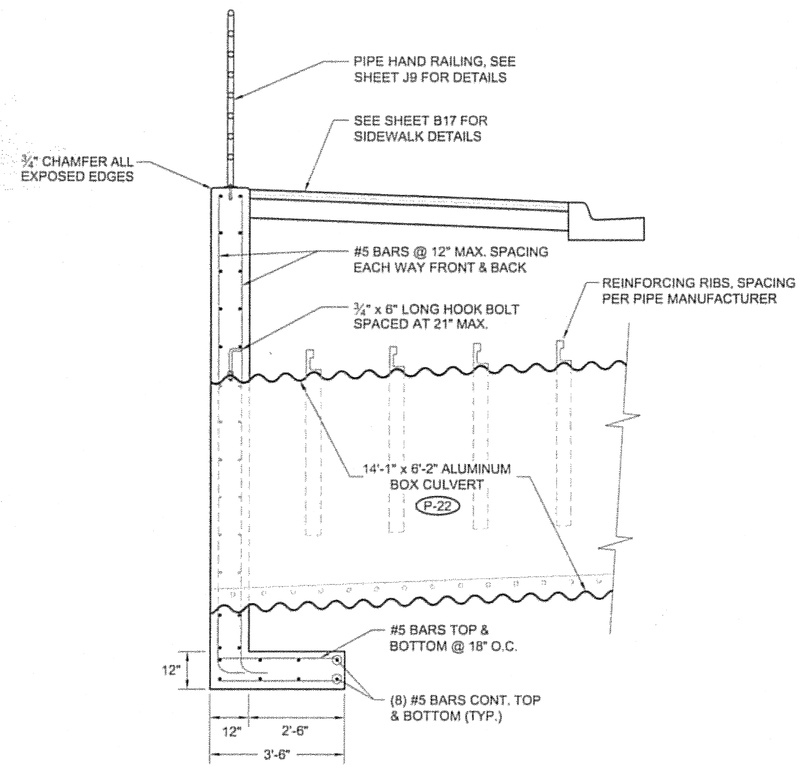
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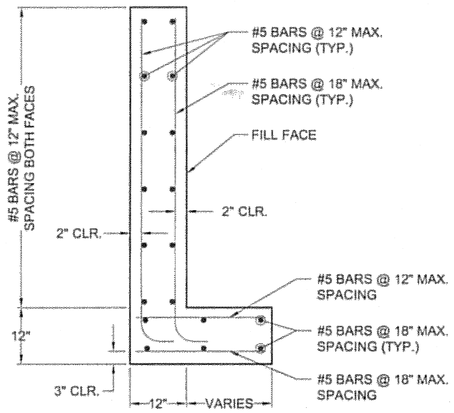
OUTLET ELEVATION
N.T.S.



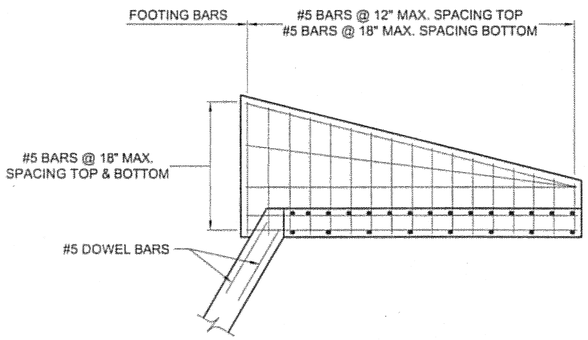
WINGWALL ELEVATION
N.T.S.



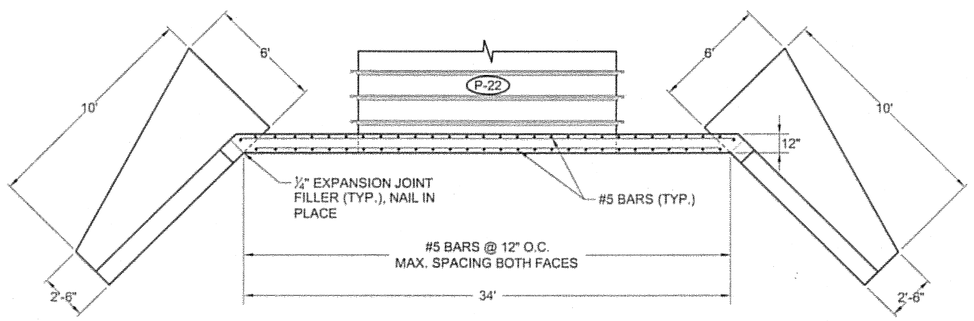
SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



WINGWALL PLAN
N.T.S.



HEADWALL PLAN
N.T.S.

EAST CREEK CONCRETE HEADWALL @ OUTLET

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details
East Creek Outlet

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

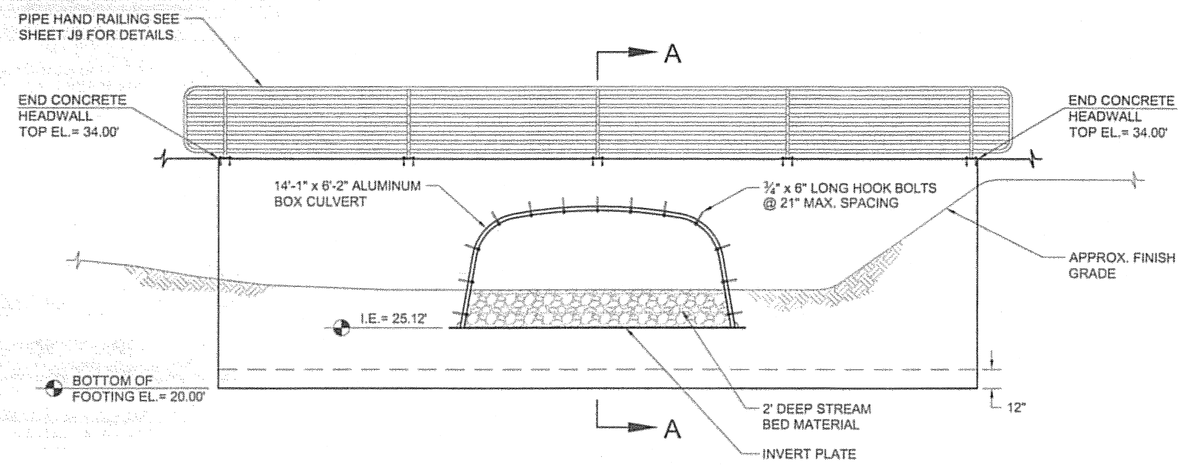
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Construction Details
East Creek Outlet

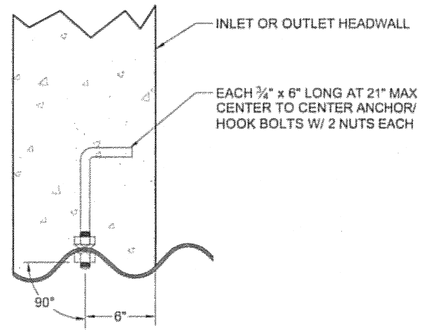
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J7	269

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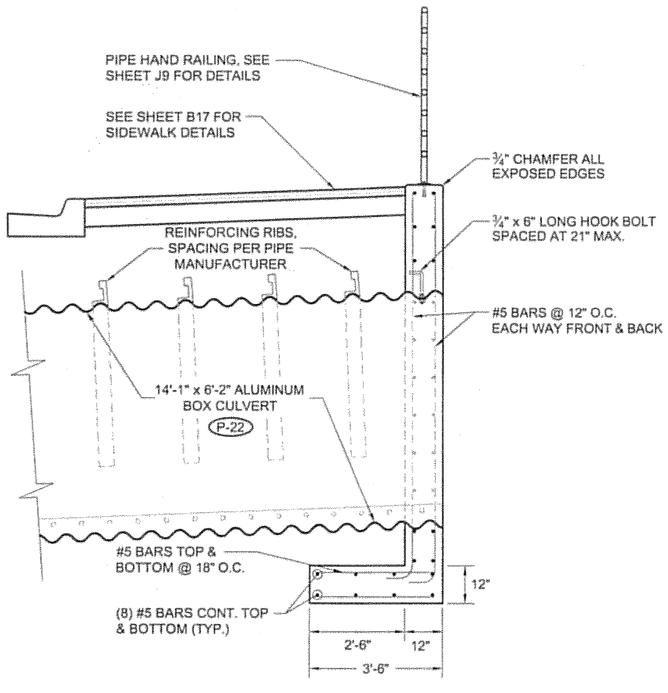
INLET ELEVATION
N.T.S.



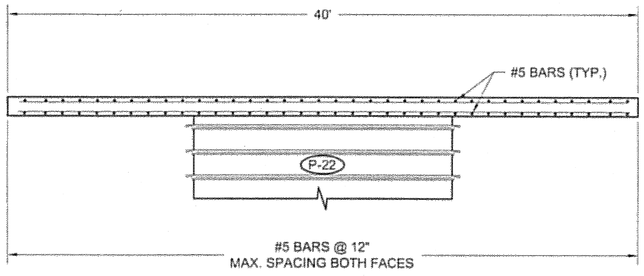
TYPICAL HOOK BOLT DETAIL
N.T.S.

NOTES:

1. ANCHOR/HOOK BOLT HOLES ARE TO BE PLACED IN THE STRUCTURE AS INDICATED ABOVE
2. ANCHOR/HOOK BOLT HOLES WILL BE LOCATED IN EITHER A CORRUGATION CREST OR VALLEY AND WILL BE ORIENTED 90 ° TO THE STRUCTURE
3. HEADWALL REINFORCING NOT SHOWN FOR CLARITY.
4. COAT ALUMINUM SURFACES THAT WILL BE IN CONTACT WITH CONCRETE WITH ALUMILASTIC COMPOUND, TWO COATS, OR AN APPROVED EQUAL PRIOR TO PLACING CONCRETE.



SECTION A-A
N.T.S.



HEADWALL PLAN
N.T.S.

EAST CREEK CONCRETE HEADWALL @ INLET

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

Construction Details East Creek Inlet

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

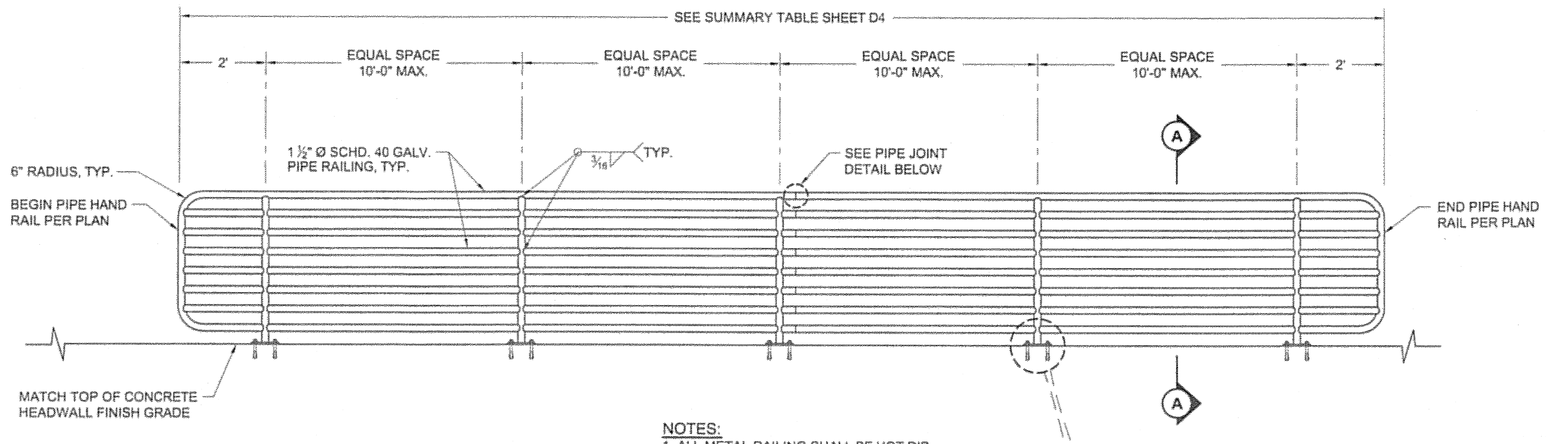
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Construction Details East Creek Inlet

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

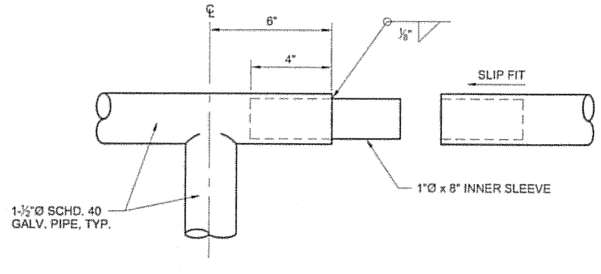
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J8	269

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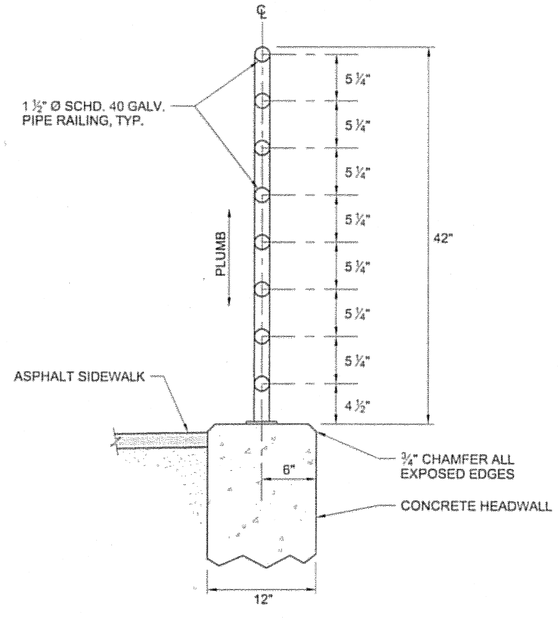


NOTES:
1. ALL METAL RAILING SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. SHOP DRAWINGS REQUIRED TO BE SUBMITTED FOR ALL METAL RAILING.

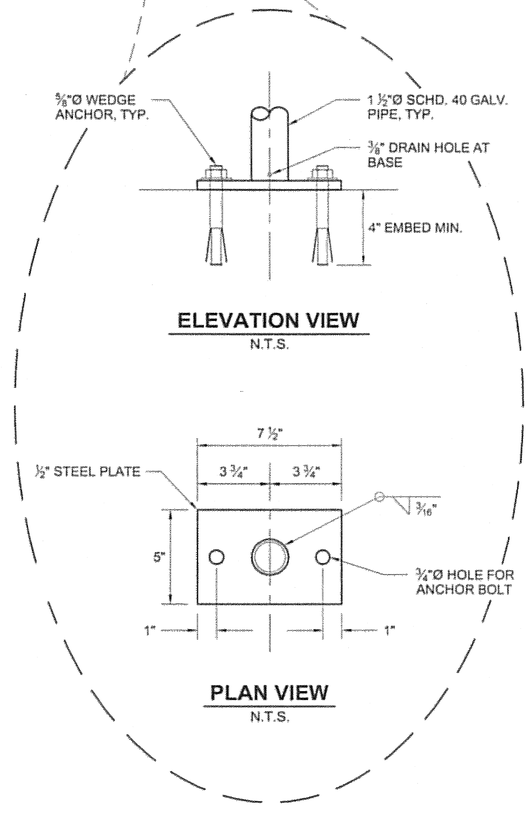
PIPE HAND RAILING - ELEVATION VIEW
N.T.S.



PIPE JOINT DETAIL
N.T.S.



SECTION A-A
N.T.S.



ELEVATION VIEW
N.T.S.

PLAN VIEW
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	.

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Construction Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 — 8-4-06

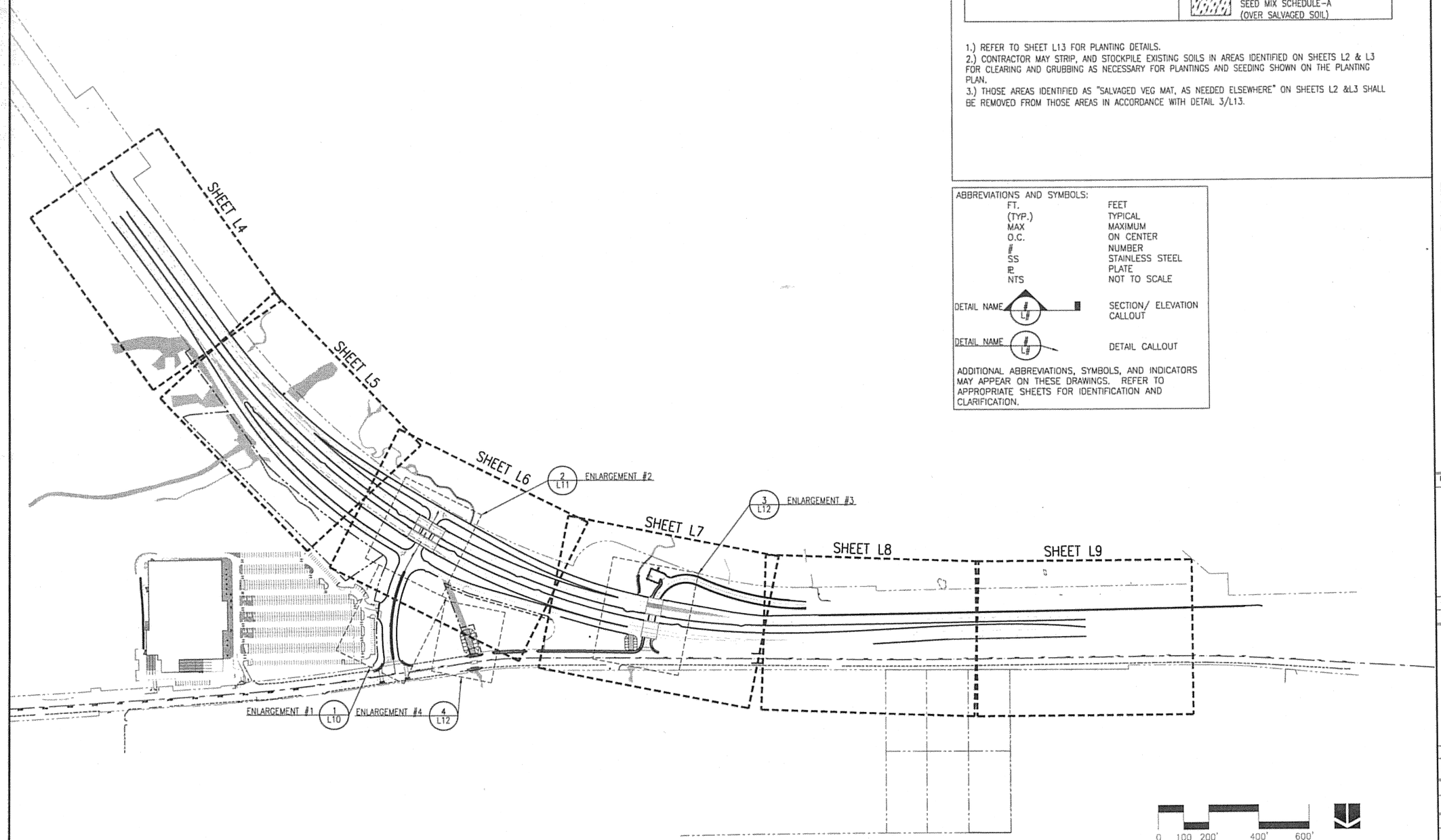
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Construction Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
J9	269

c:\ 2005\ 051351\ Design Drawings\ /--Construction Details.DWG PLOT: August 04, 2006 at: 1:12pm



PLANTING SCHEDULE

QTY	SYMBOL	LABEL	LATIN NAME	COMMON NAME	SIZE	FURNISHED
SHRUBS						
163		RA	ROSA ACICULARIS	PRICKLY ROSE	24" HT.	POTTED
140		RP	RUBUS PARVIFLORUS	THIMBLEBERRY	24" HT.	POTTED
29		VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY	24" HT.	POTTED

MISCELLANEOUS

- SEED MIX SCHEDULE-A (OVER 4" TOPSOIL)
- RELOCATED VEG MAT
- WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)

1.) REFER TO SHEET L13 FOR PLANTING DETAILS.
2.) CONTRACTOR MAY STRIP, AND STOCKPILE EXISTING SOILS IN AREAS IDENTIFIED ON SHEETS L2 & L3 FOR CLEARING AND GRUBBING AS NECESSARY FOR PLANTINGS AND SEEDING SHOWN ON THE PLANTING PLAN.
3.) THOSE AREAS IDENTIFIED AS "SALVAGED VEG MAT, AS NEEDED ELSEWHERE" ON SHEETS L2 &L3 SHALL BE REMOVED FROM THOSE AREAS IN ACCORDANCE WITH DETAIL 3/L13.

ABBREVIATIONS AND SYMBOLS:

FT.	FEET
(TYP.)	TYPICAL
MAX	MAXIMUM
O.C.	ON CENTER
#	NUMBER
SS	STAINLESS STEEL
ℙ	PLATE
NTS	NOT TO SCALE

DETAIL NAME # L# — SECTION/ ELEVATION CALLOUT

DETAIL NAME # L# — DETAIL CALLOUT

ADDITIONAL ABBREVIATIONS, SYMBOLS, AND INDICATORS MAY APPEAR ON THESE DRAWINGS. REFER TO APPROPRIATE SHEETS FOR IDENTIFICATION AND CLARIFICATION.

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 9341 — 08/16/07

CHECKED BY: W.D. ADAMS
DRAWN BY: JTP/ KG/ PDB

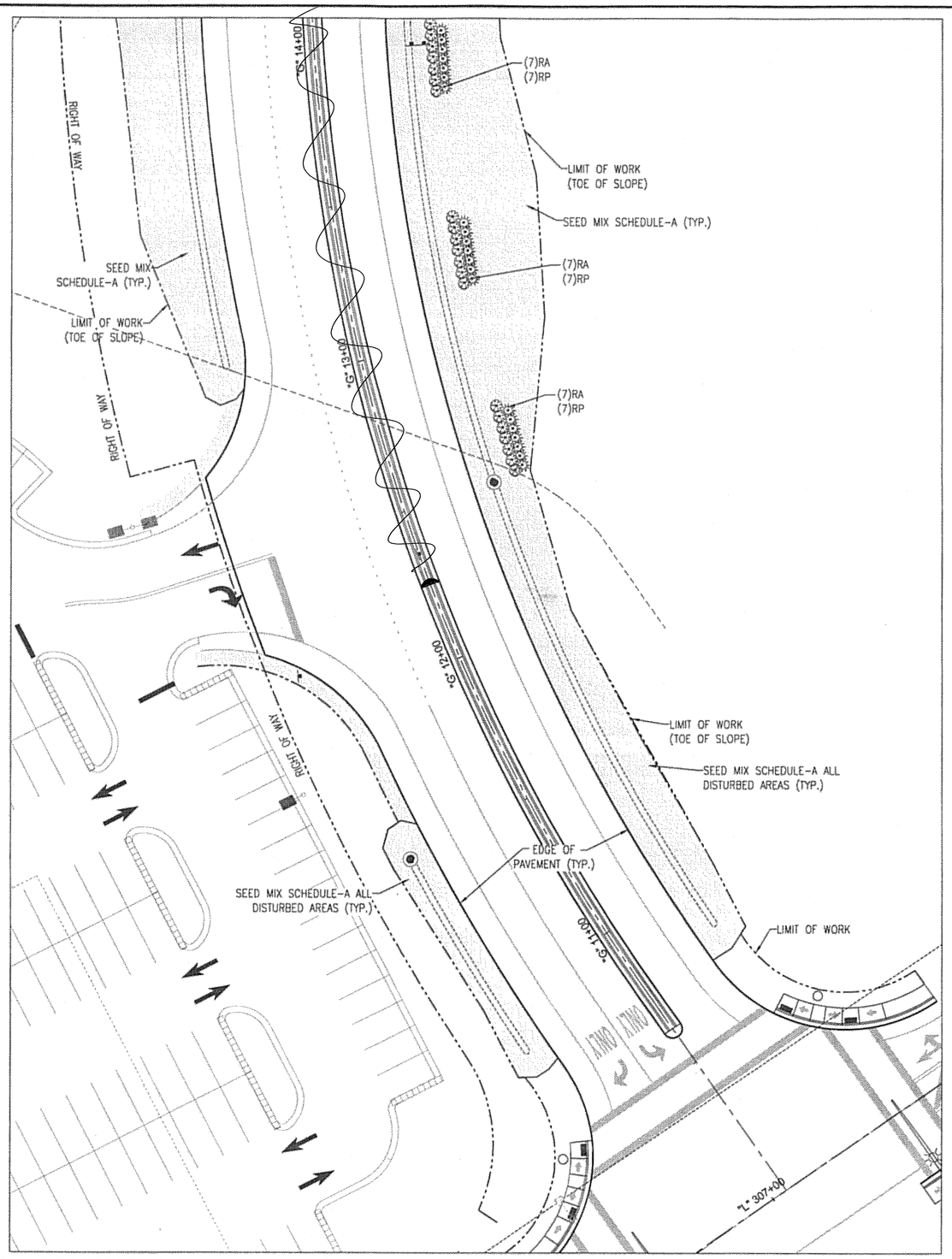
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER
71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L1	269



1 ENLARGEMENT #1
SCALE: PER PLANS

PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
✲	RA	ROSA ACICULARIS	PRICKLY ROSE
✲	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
+	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY

MISCELLANEOUS

- SEED MIX SCHEDULE A (OVER 4" TOPSOIL)
- RELOCATED VEG MAT
- WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/1/16

0 10' 20' 40' 60'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL 10351 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT 2017

CHECKED BY: W.D. ADAMS

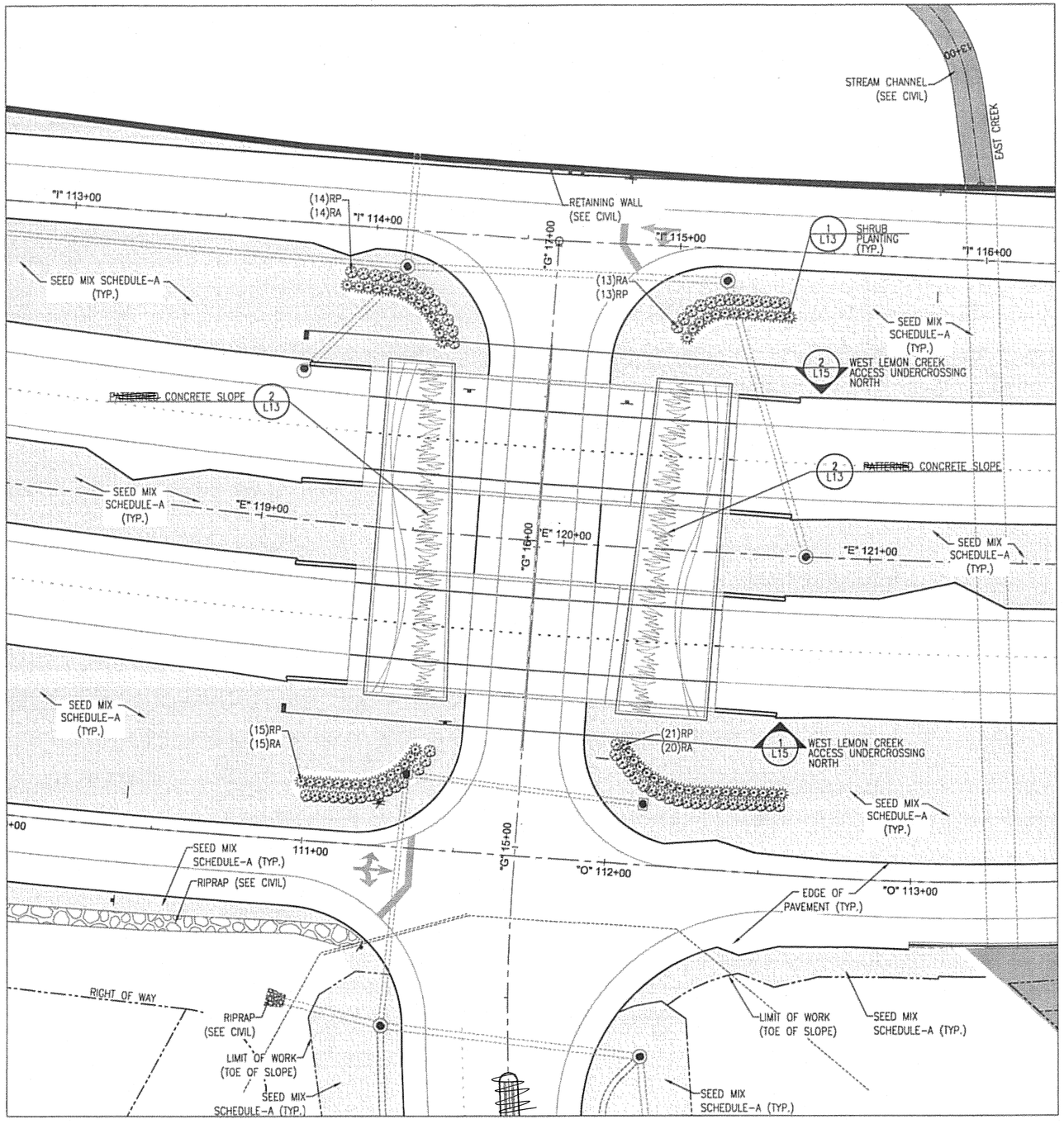
DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L10	269



2 ENLARGEMENT #2

SCALE: PER PLANS

PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
	RA	ROSA ACICULARIS	PRICKLY ROSE
	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY

MISCELLANEOUS

- SEED MIX SCHEDULE A (OVER 4" TOPSOIL)
- RELOCATED VEG MAT
- WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date _____

0 10' 20' 40' 60'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL 9/10/07 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

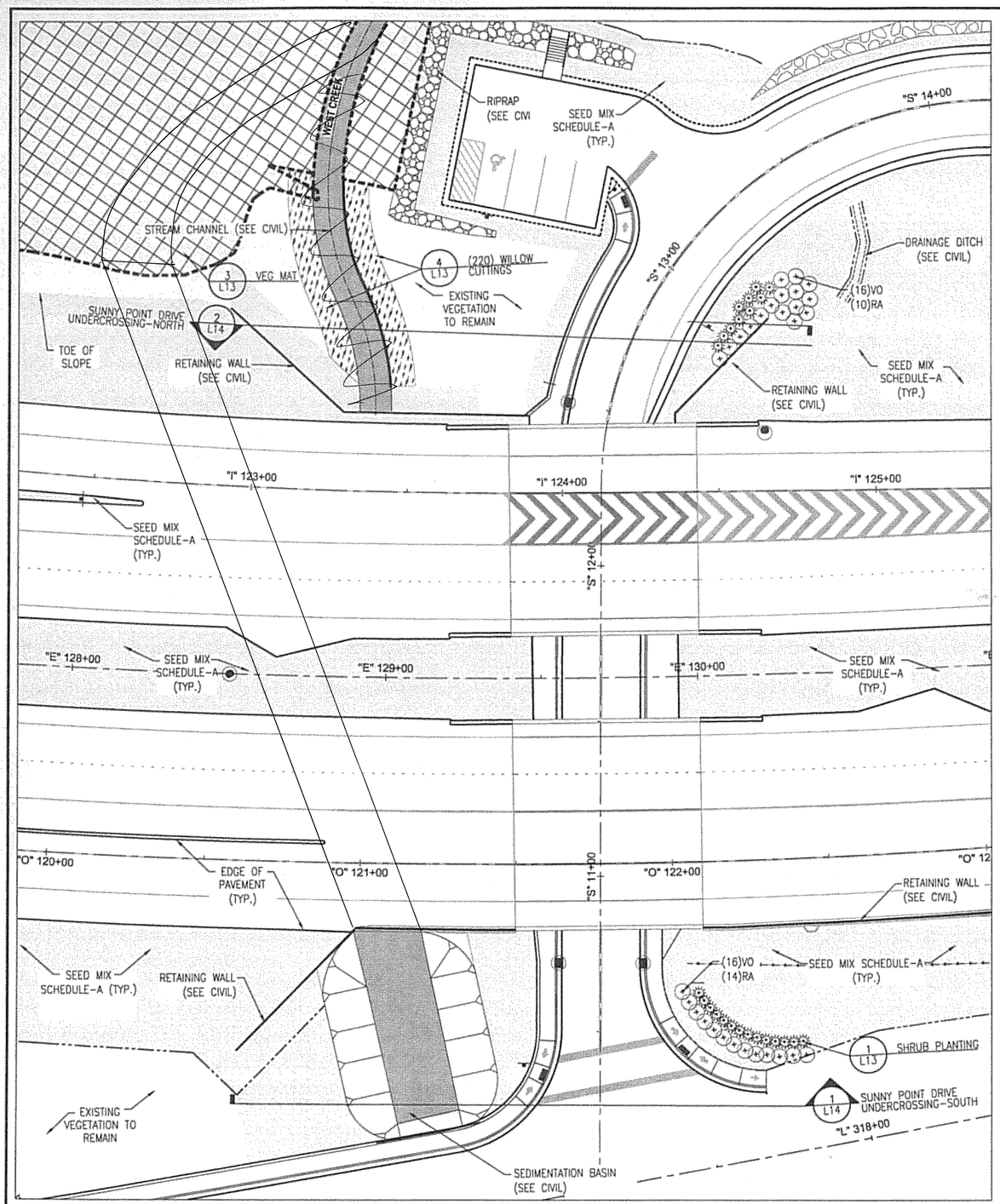
CHECKED BY: W.D. ADAMS
DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L11	269



3 ENLARGEMENT #3
SCALE: PER PLANS

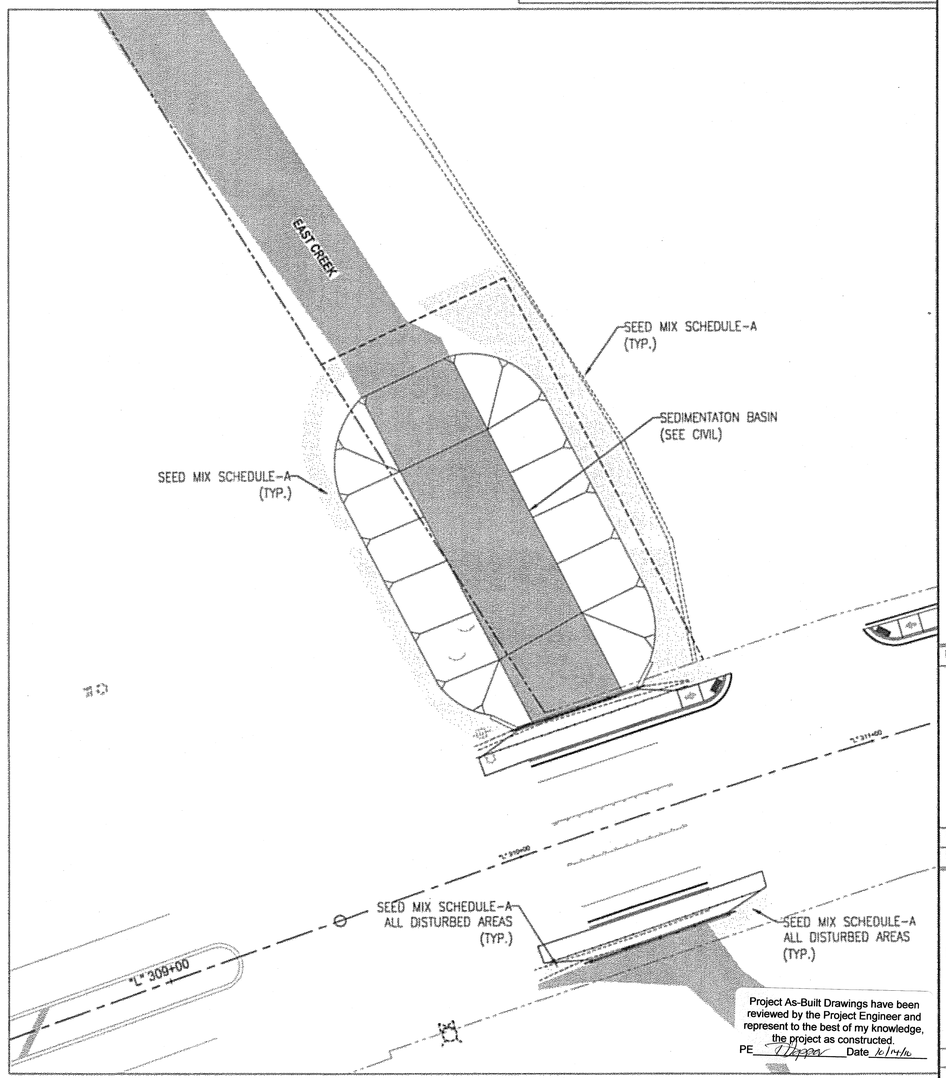
0 10' 20' 40' 60'

PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
☼	RA	ROSA ACICULARIS	PRICKLY ROSE
⊗	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
⊕	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY

MISCELLANEOUS

- SEED MIX SCHEDULE A (OVER 4" TOPSOIL)
- RELOCATED VEG MAT
- WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)



4 ENLARGEMENT #4
SCALE: PER PLANS

0 10' 20' 40' 60'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/14/16

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 10911 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

CHECKED BY: W.D. ADAMS

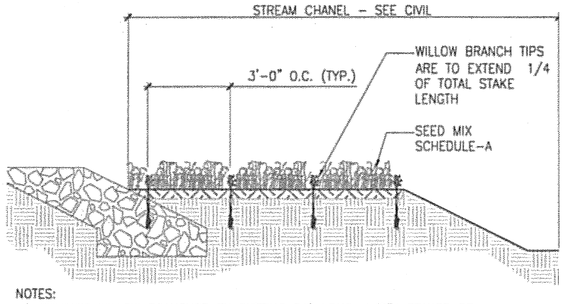
DRAWN BY: JTP/ KG/ PDB

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

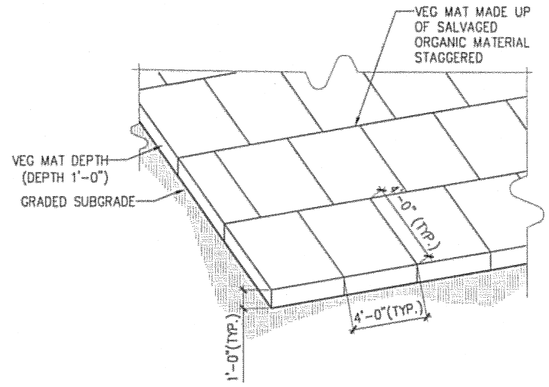
PROJECT DESIGNATION NUMBER
71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L12	269

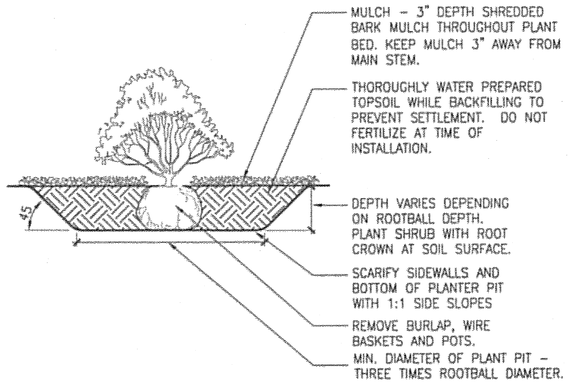


NOTES:
1.) PREPARE WILLOW BRANCHES BY CUTTING 24" LONG, 1/2"ø STAKES OR GREATER FROM DORMANT WILLOW.
2.) 1/4 OF PLANT OR TWO LEAF BUDS ARE TO REMAIN ABOVE GROUND.
3.) USE REBAR OR EQUIVALENT TO CREATE PLANTING HOLES.

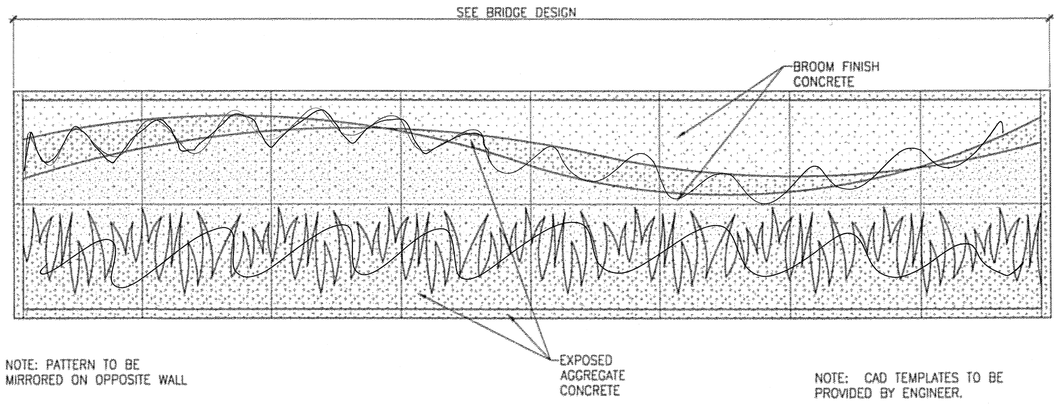
4 / L13 **WILLOW CUTTINGS**
SCALE: 3/8"=1'-0" dt-plnt-willw2.dwg



3 / L13 **VEG MAT**
SCALE: NTS dt-veg-mat.dwg



1 / L13 **SHRUB PLANTING**
SCALE: NTS dt-shrb.dwg



NOTE: PATTERN TO BE MIRRORED ON OPPOSITE WALL

NOTE: CAD TEMPLATES TO BE PROVIDED BY ENGINEER.

2 / L13 **~~PATTERNED~~ CONCRETE SLOPE**
SCALE: NTS dt-conc-povr-ovps.dwg

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

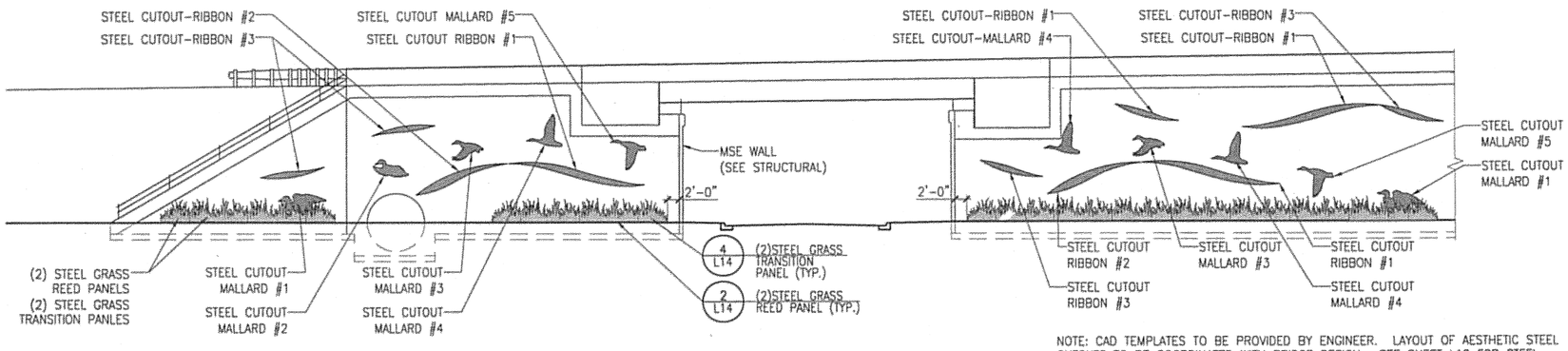
STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 10941 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT 8/1/07

CHECKED BY: W.D. ADAMS
DRAWN BY: JTP/ KG/ PDB

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE DETAILS

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
L13	**269**

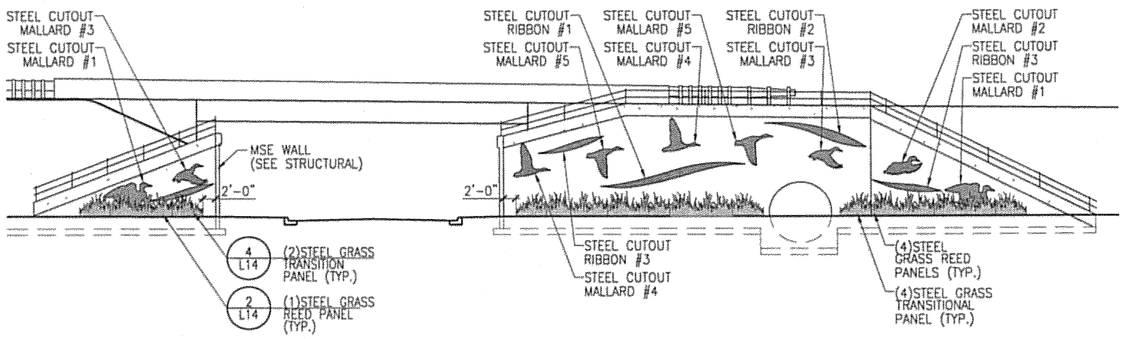


1/L14 SUNNY POINT DRIVE UNDERCROSSING - NORTH

SCALE: NTS

NOTE: CAD TEMPLATES TO BE PROVIDED BY ENGINEER. LAYOUT OF AESTHETIC STEEL CUTOUTS TO BE COORDINATED WITH BRIDGE DESIGN. SEE SHEET L16 FOR STEEL CUTOUT-MALLARD DETAILS. SEE SHEET L17 FOR STEEL CUTOUT-RIBBON DETAILS.

dt-tnnl-elev-south.dwg



2/L14 SUNNY POINT DRIVE UNDERCROSSING - SOUTH

SCALE: NTS

NOTE: CAD TEMPLATES TO BE PROVIDED BY ENGINEER. LAYOUT OF AESTHETIC STEEL CUTOUTS TO BE COORDINATED WITH BRIDGE DESIGN. SEE SHEET L16 FOR STEEL CUTOUT-MALLARD DETAILS. SEE SHEET L17 FOR STEEL CUTOUT-RIBBON DETAILS.

dt-tnnl-elev.dwg

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA
49TH
TERRY SCHOENTHAL
No. 10241
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
5/1/07

CHECKED BY: W.D. ADAMS

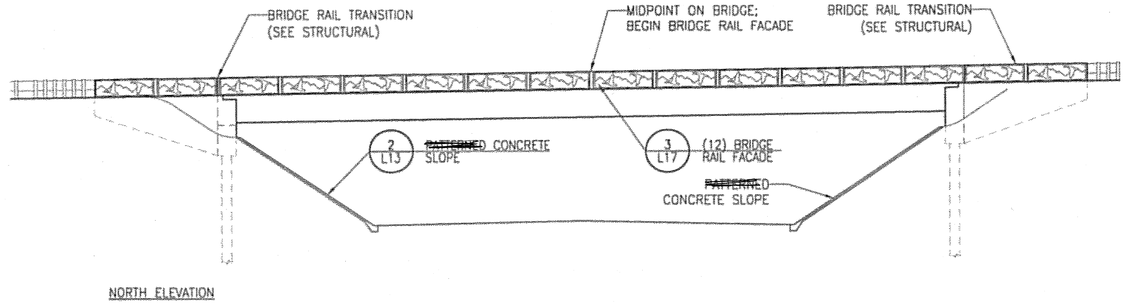
DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

LANDSCAPE
DETAILS

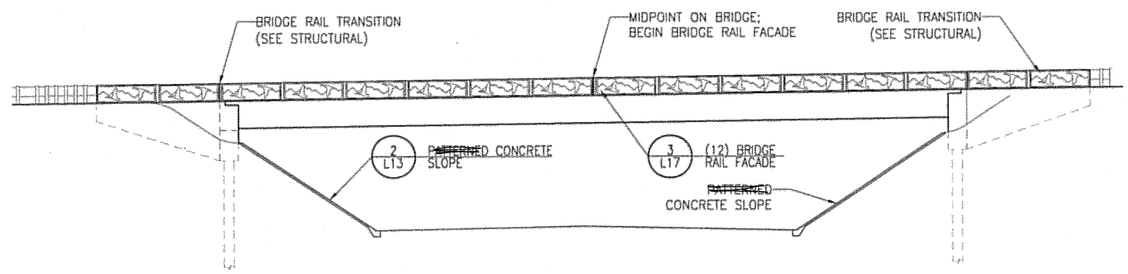
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L14	269



1/L15 WEST LEMON CREEK ACCESS UNDERCROSSING - NORTH

SCALE: NTS

dt-brdg-elev.dwg



2/L15 WEST LEMON CREEK ACCESS UNDERCROSSING - SOUTH

SCALE: NTS

dt-brdg-elev.dwg

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 10/4/10

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA
49TH
TERRY SCHOENTHAL
No. 10344
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

CHECKED BY: W.D. ADAMS

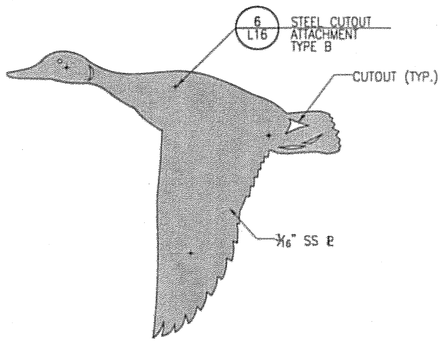
DRAWN BY: JTP/ KG/ PDB

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

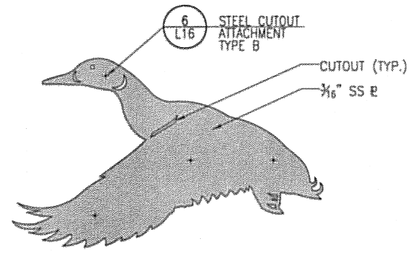
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

LANDSCAPE
DETAILS

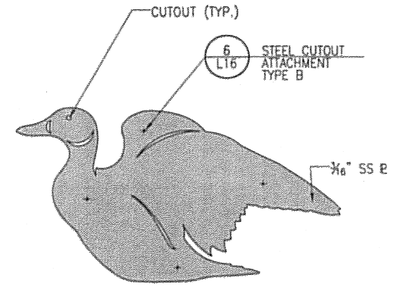
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L15	269



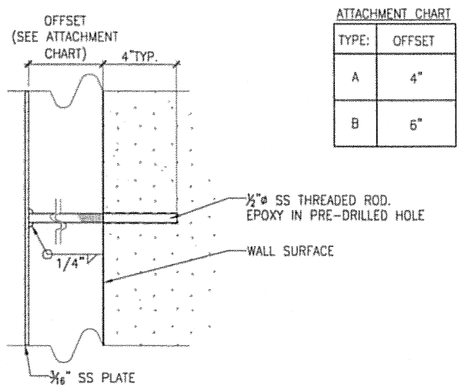
5 L16 MALLARD #5
SCALE: 3/4"=1'-0" dt-file.dwg



3 L16 MALLARD #3
SCALE: 3/4"=1'-0" dt-file.dwg



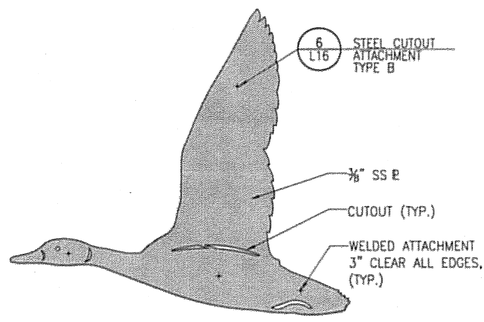
1 L16 MALLARD #1
SCALE: 3/4"=1'-0" dt-file.dwg



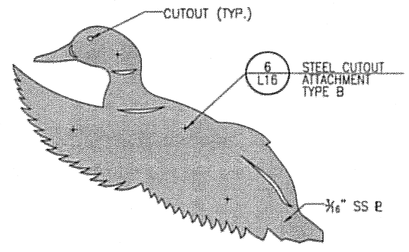
ATTACHMENT CHART

TYPE:	OFFSET
A	4"
B	6"

6 L16 STEEL CUTOUT ATTACHMENT
SCALE: 3"=1'-0"



4 L16 MALLARD #4
SCALE: 3/4"=1'-0" dt-file.dwg



2 L16 MALLARD #2
SCALE: 3/4"=1'-0" dt-file.dwg

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 10341 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

CHECKED BY: W.D. ADAMS

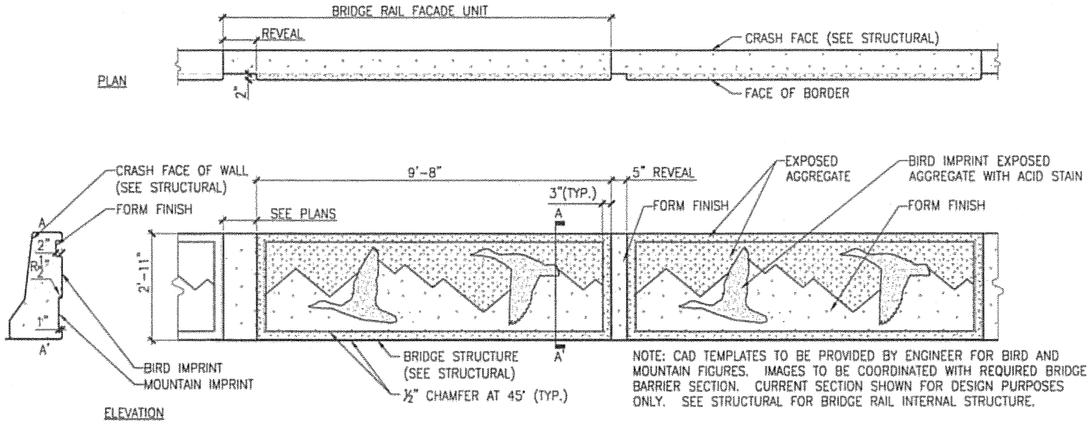
DRAWN BY: JTP/ KG/ PDB

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

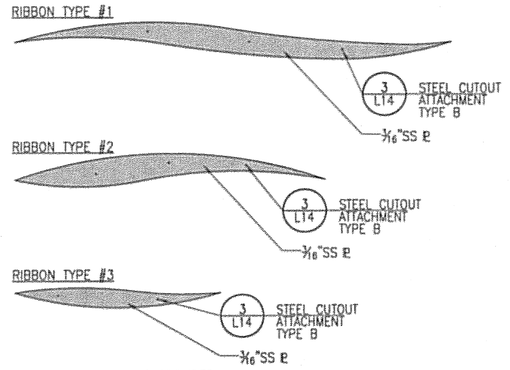
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE DETAILS

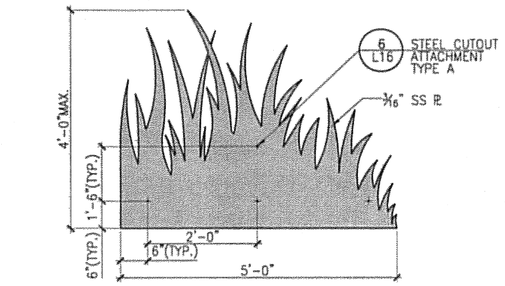
PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L16	269



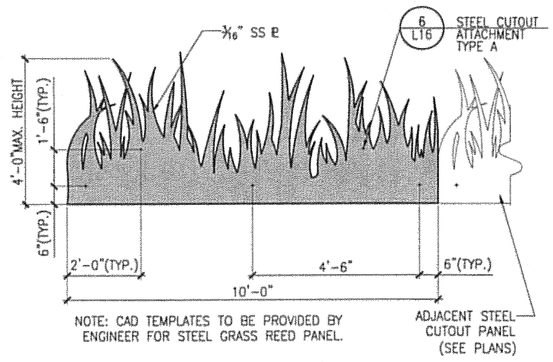
3 / L17 BRIDGE RAIL FACADE
SCALE: 1/2"=1'-0"
dt-jray-barr-dsgn.dwg



1 / L17 STEEL RIBBON CUTOUT - TUNNEL
SCALE: 1/4"=1'-0"
dt-stel-rbbn-tnnl.dwg



4 / L17 STEEL GRASS REED TRANSITION PANEL
SCALE: 3/4"=1'-0"
dt-stel-grss-trsn.dwg



2 / L17 STEEL GRASS REED PANEL
SCALE: 1/2"=1'-0"
dt-stel-grss.dwg

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 10341 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT 11/07

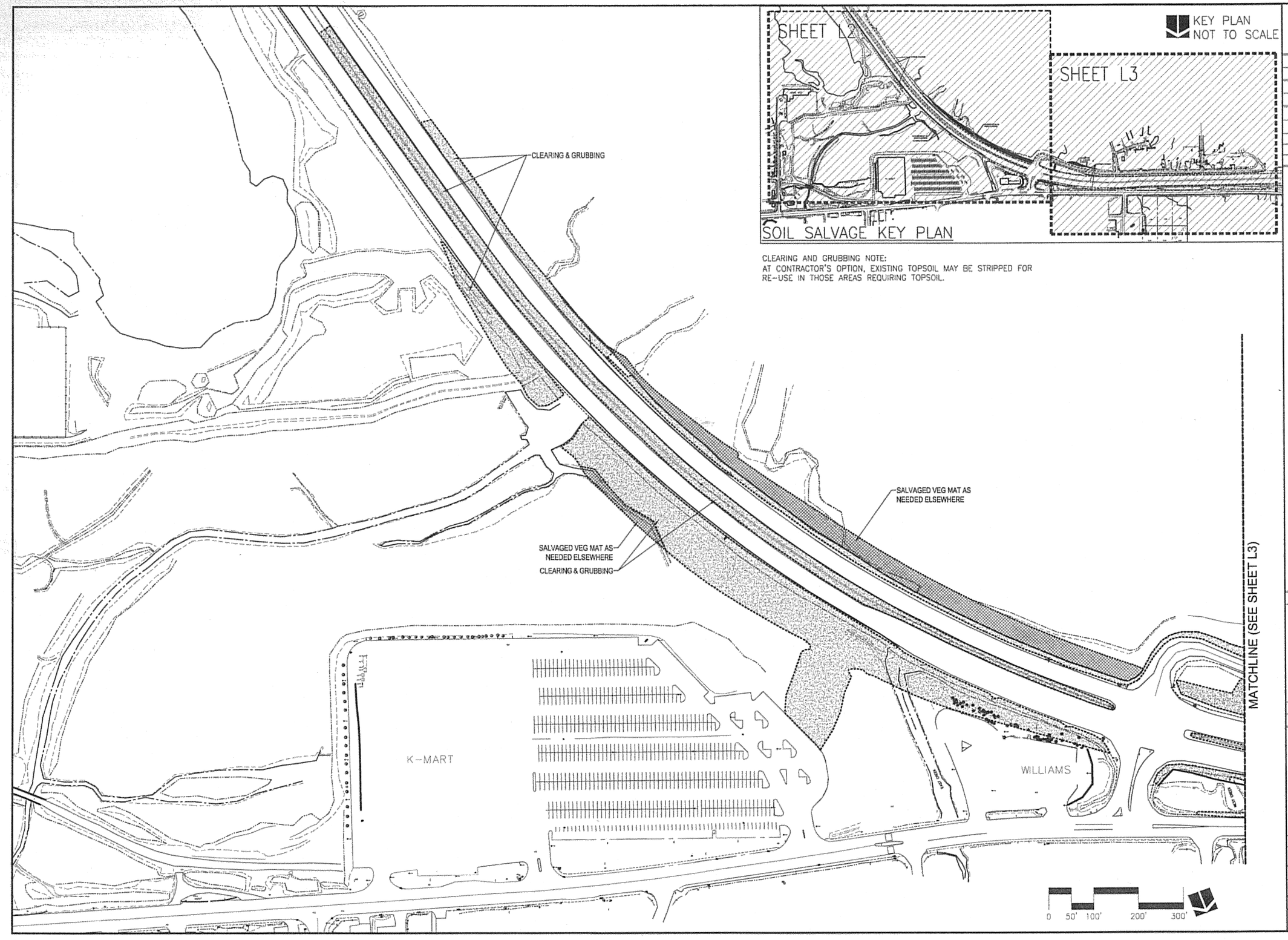
CHECKED BY: W.D. ADAMS

DRAWN BY: JTP/ KG/ PDB

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE DETAILS

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L17	269



KEY PLAN
NOT TO SCALE

CLEARING AND GRUBBING NOTE:
AT CONTRACTOR'S OPTION, EXISTING TOPSOIL MAY BE STRIPPED FOR RE-USE IN THOSE AREAS REQUIRING TOPSOIL.

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA
49TH
TERRY SCHOENTHAL
10341
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

CHECKED BY: W.D. ADAMS

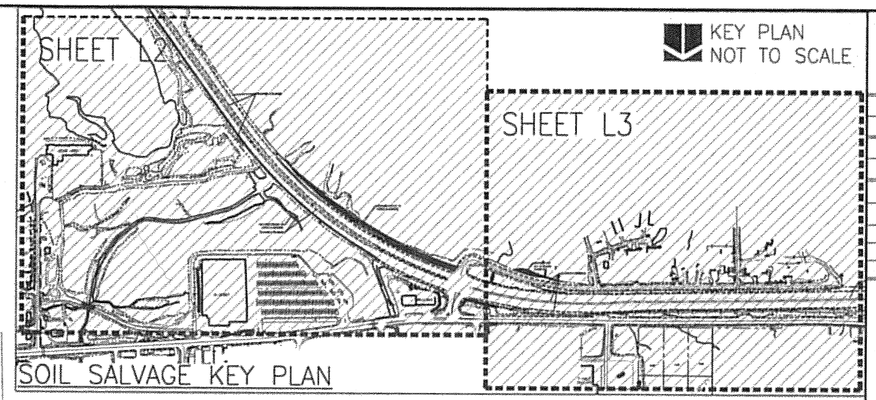
DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

LANDSCAPE
SOIL SALVAGE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L2	269



KEY PLAN
NOT TO SCALE

MATCHLINE (SEE SHEET L2)

SALVAGED VEG MAT AS NEEDED ELSEWHERE

CLEARING & GRUBBING

CLEARING & GRUBBING

7-MILE DOT/PF

U.S. 3256

0 50' 100' 200' 300'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA
49TH
TERRY SCHOENTHAL
No. 10381
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
2/16/07

CHECKED BY: W.D. ADAMS

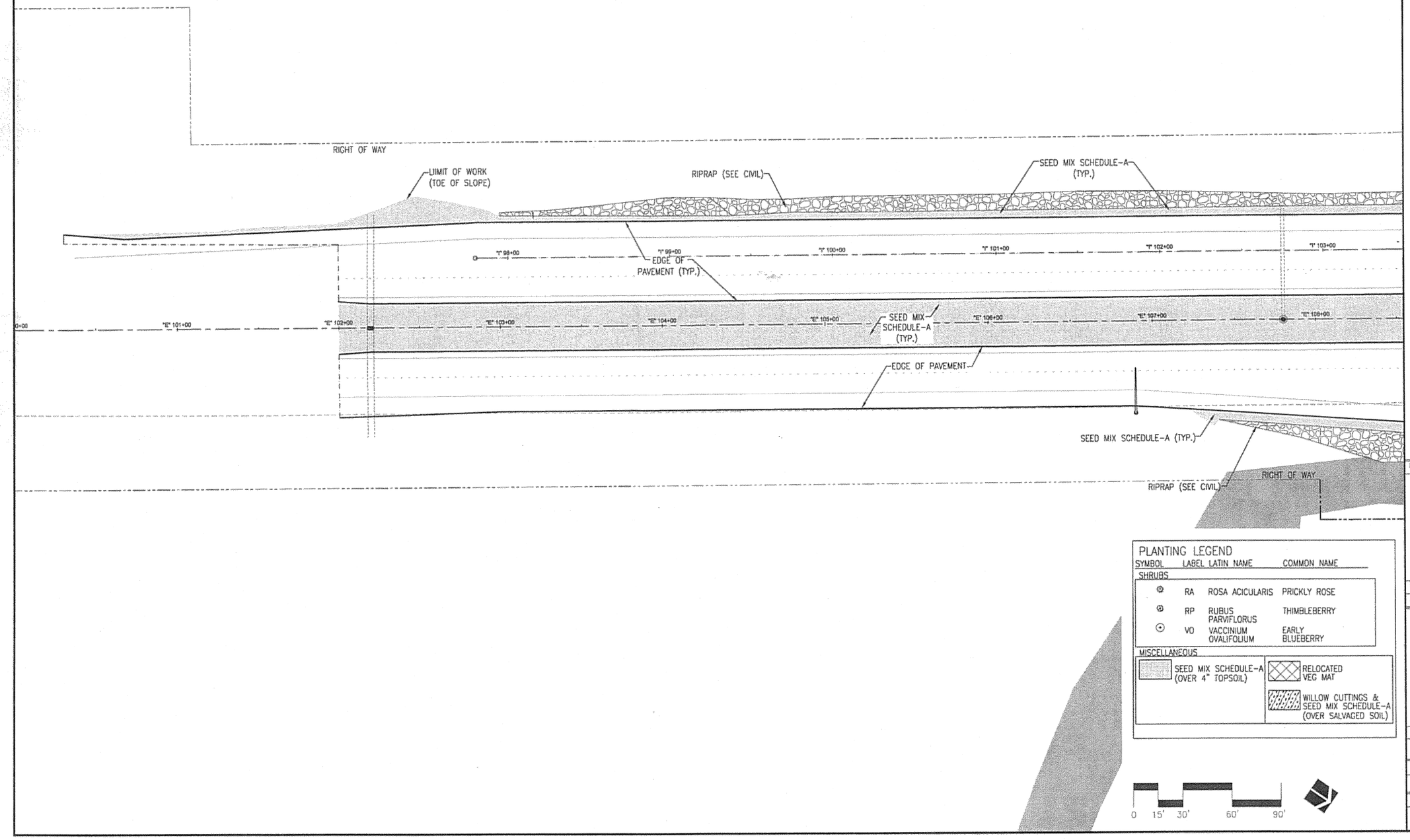
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

LANDSCAPE
SOIL SALVAGE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L3	269



PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
	RA	ROSA ACICULARIS	PRICKLY ROSE
	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY
MISCELLANEOUS			
	SEED MIX SCHEDULE-A (OVER 4" TOPSOIL)		
	RELOCATED VEG MAT		
	WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)		

0 15' 30' 60' 90'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL NO. 10241 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT 4/17/07

CHECKED BY: W.D. ADAMS

DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L4	269

PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
	RA	ROSA ACICULARIS	PRICKLY ROSE
	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY

MISCELLANEOUS

- SEED MIX SCHEDULE-A (OVER 4" TOPSOIL)
- RELOCATED VEG MAT
- WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)

SWITZER CREEK

RIGHT OF WAY

RETAINING WALL (SEE CIVIL)

RIPRAP (SEE CIVIL)

SEED MIX SCHEDULE-A (TYP.)

EDGE OF PAVEMENT (TYP.)

(7)RA
(7)RP

STREAM CHANNEL (SEE CIVIL)

4 L13 (1500) WILLOW CUTTINGS

DOT&PF WETLAND CONSERVATION AREA

0 15' 30' 60' 90'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHDENTHAL No. 10941 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
8/1/07

CHECKED BY: W.D. ADAMS

DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L5	269

PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
⊛	RA	ROSA ACICULARIS	PRICKLY ROSE
⊘	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
⊙	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY

MISCELLANEOUS

- SEED MIX SCHEDULE-A (OVER 4" TOPSOIL)
- RELOCATED VEG MAT
- WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)

EAST CREEK

? L11 ENLARGEMENT #2

RETAINING WALL (SEE CIVIL)

(7)RA
(7)RP

SEED MIX SCHEDULE-A (TYP.)

RIGHT OF WAY

EDGE OF PAVEMENT (TYP.)

LIMIT OF WORK (TOE OF SLOPE)

RIPRAP (SEE CIVIL)

4 L12 ENLARGEMENT #4

1 L10 ENLARGEMENT #1

0 15' 30' 60' 90'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

CHECKED BY: W.D. ADAMS

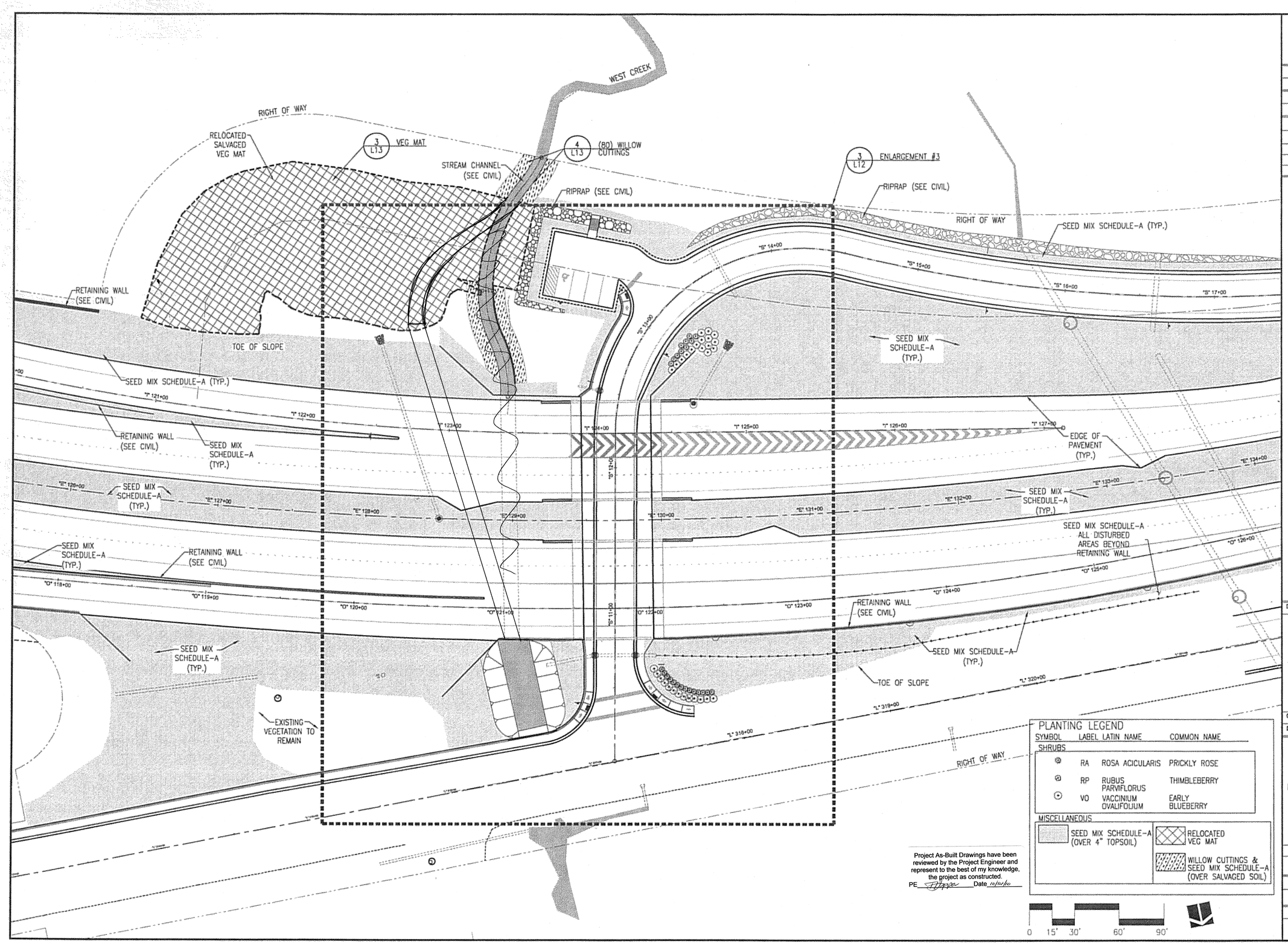
DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
L6	**269**



ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
	RA	ROSA ACICULARIS	PRICKLY ROSE
	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY
MISCELLANEOUS			
		SEED MIX SCHEDULE-A (OVER 4" TOPSOIL)	
		RELOCATED VEG MAT	
		WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)	

0 15' 30' 60' 90'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/10/06

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 10361 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

CHECKED BY: W.D. ADAMS

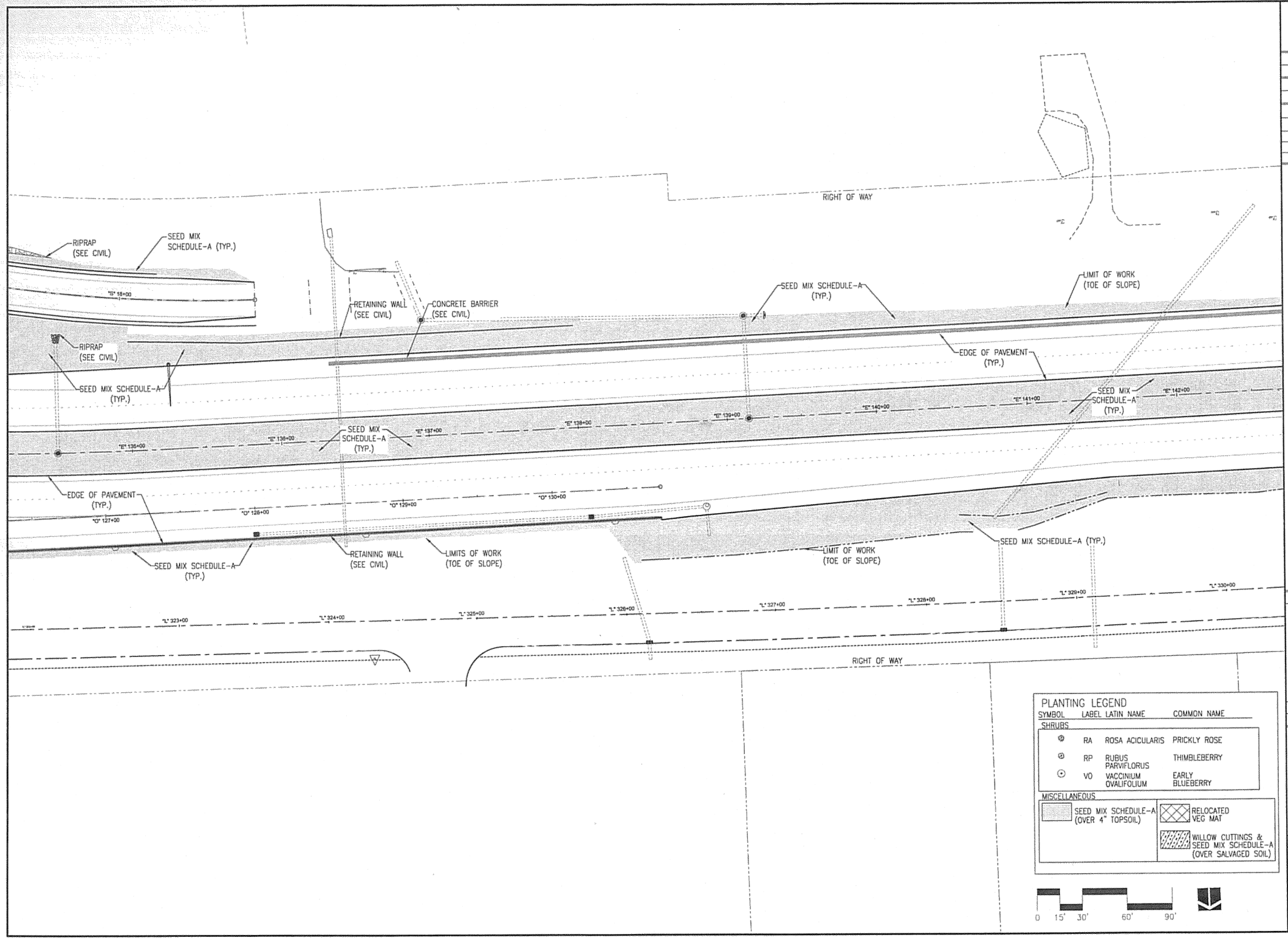
DRAWN BY: JTP/ KG/ PDB

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L7	269



ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL No. 10941 REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

CHECKED BY: W.D. ADAMS

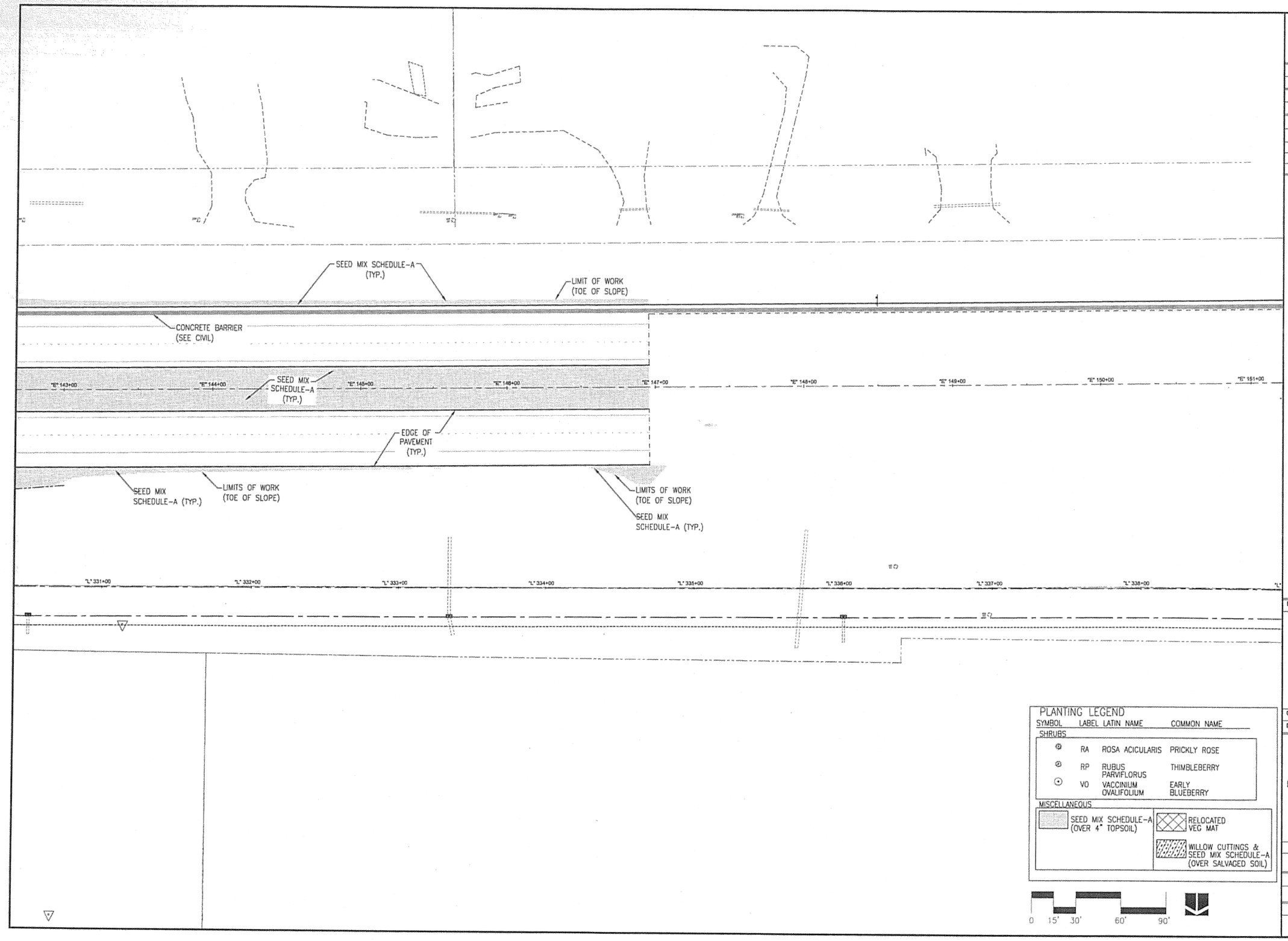
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L8	269



PLANTING LEGEND

SYMBOL	LABEL	LATIN NAME	COMMON NAME
SHRUBS			
	RA	ROSA ACICULARIS	PRICKLY ROSE
	RP	RUBUS PARVIFLORUS	THIMBLEBERRY
	VO	VACCINIUM OVALIFOLIUM	EARLY BLUEBERRY
MISCELLANEOUS			
		SEED MIX SCHEDULE-A (OVER 4" TOPSOIL)	
		RELOCATED VEG MAT	
		WILLOW CUTTINGS & SEED MIX SCHEDULE-A (OVER SALVAGED SOIL)	

0 15' 30' 60' 90'

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

DESIGNED BY: JTP/ PDB

STATE OF ALASKA 49TH TERRY SCHOENTHAL 10341 REGISTERED & LICENSED LANDSCAPE ARCHITECT 3/1/07

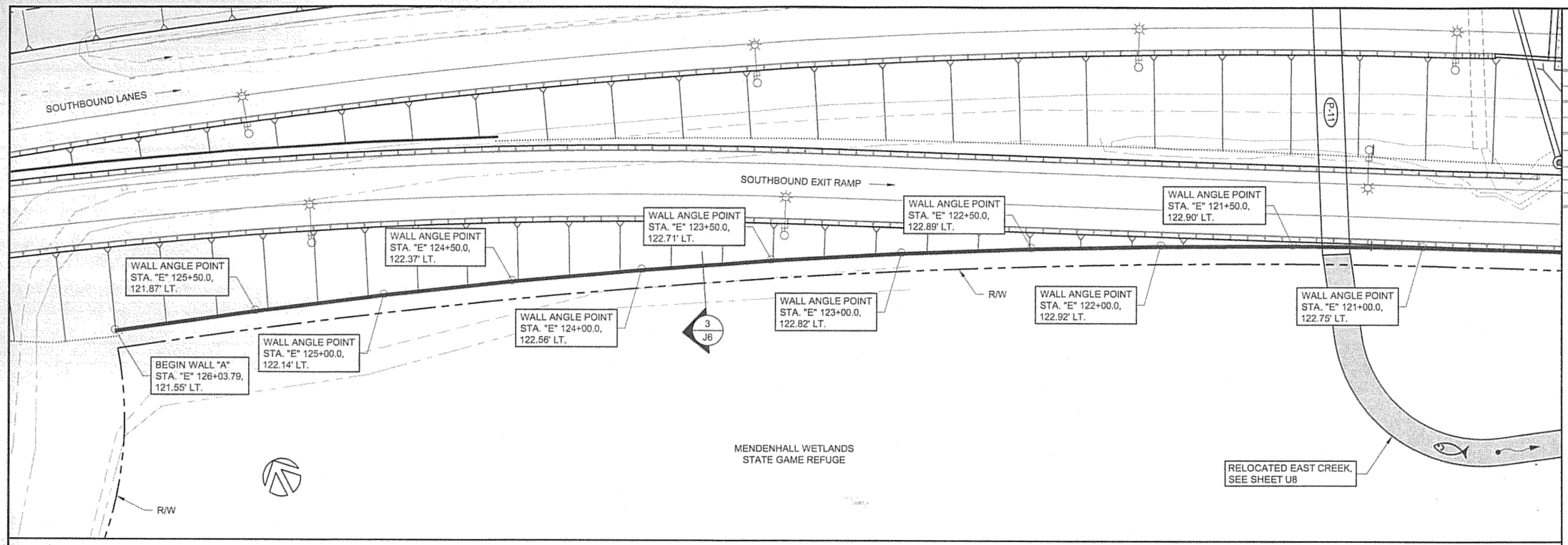
CHECKED BY: W.D. ADAMS
DRAWN BY: JTP/ KG/ PDB

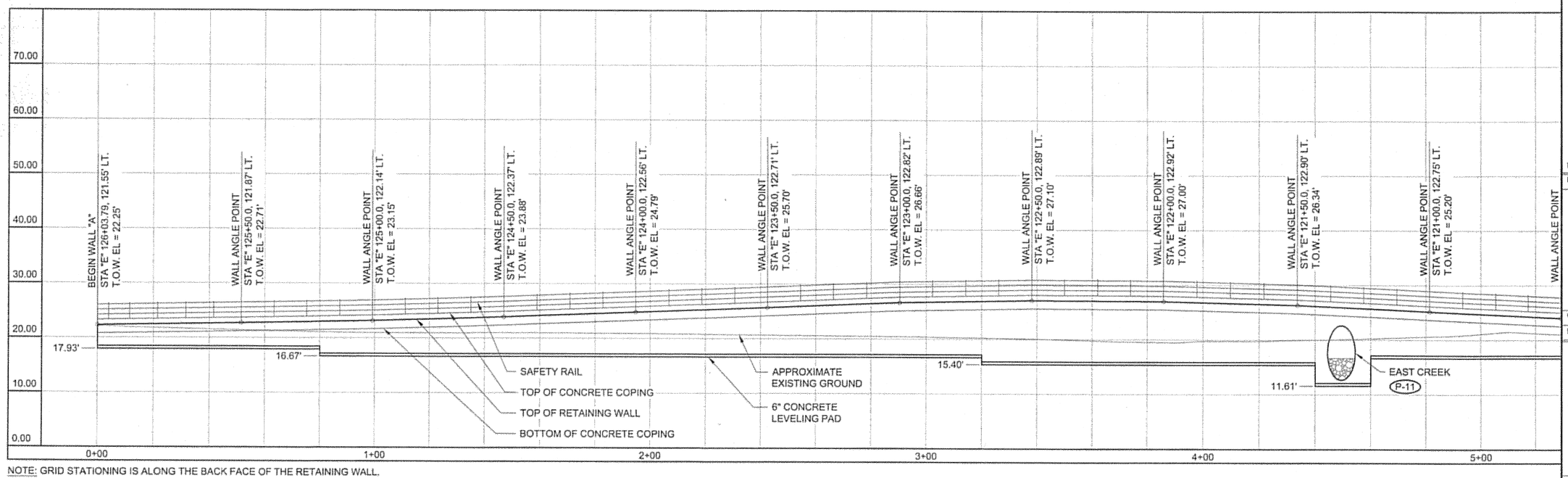
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

LANDSCAPE PLAN

PROJECT DESIGNATION NUMBER	
71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
L9	269





NOTE: GRID STATIONING IS ALONG THE BACK FACE OF THE RETAINING WALL.

M.S.E. RETAINING WALL "A" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "A"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8132
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

M.S.E. Retaining Wall "A" PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M1	269

I:\2005\051365\Design Drawings\EPI\051365sp.dwg PLOT: August 04, 2006 at: 2:21pm

SOUTHBOUND EXIT RAMP

SOUTHBOUND LANES

NORTHBOUND LANES

NORTHBOUND ENTRANCE RAMP

GLACIER HIGHWAY

"E" 133+00

"E" 134+00

"E" 135+00

"E" 136+00

"E" 137+00

"E" 138+00

PT = "E" 135+27.43

S 88°59'05" W - 2,179.39'

INSTALL 18" CPP (210 L.F.) ABOVE EXIST. 18" CMP FOR FUTURE WATER LINE INSTALLATION

INSTALL (2) 4" SCHD. 80 PVC CONDUITS FOR FUTURE USE

INSTALL NEW 8" DIP SEWER LINE

EXIST. 8" PVC SEWER

EXIST. 8" DIP WATER LINE INSIDE 18" CMP

EXIST. UNDERGROUND ELECTRICAL CONDUIT

RETAINING WALL "G"

Concrete Elec Vault Base

11.7

13.8

S-10 S-11 S-14 S-16 P-14 P-15 P-24 P-34

1 J6

STA "E" 132+50.00, 75.17' RT. T.O.W. EL = 46.84'

STA "E" 133+00.00, 72.83' RT. T.O.W. EL = 45.55'

STA "E" 133+50.00, 70.13' RT. T.O.W. EL = 44.26'

STA "E" 134+00.00, 67.36' RT. T.O.W. EL = 43.03'

STA "E" 134+50.00, 65.45' RT. T.O.W. EL = 41.95'

STA "E" 135+00.00, 64.47' RT. T.O.W. EL = 41.12'

STA "E" 135+50.00, 64.33' RT. T.O.W. EL = 40.31'

STA "E" 136+00.00, 64.33' RT. T.O.W. EL = 39.51'

STA "E" 136+50.00, 64.33' RT. T.O.W. EL = 38.78'

STA "E" 137+00.00, 64.33' RT. T.O.W. EL = 38.25'

STA "E" 137+50.00, 64.33' RT. T.O.W. EL = 37.82'

STA "E" 138+00.00, 64.33' RT. T.O.W. EL = 37.50'

TOP OF VEHICLE BARRIER

TOP OF RETAINING WALL

BOTTOM LIP OF VEHICLE BARRIER

6" CONCRETE LEVELING PAD

APPROX. ORIGINAL GROUND

APPROX. EXIST. ELECTRICAL CONDUIT

INSTALL (2) 4" SCHD. 80 PVC CONDUITS

24.56'

23.30'

INSTALL 18" CPP FOR FUTURE WATER LINE INSTALLATION

EXIST. 8" DIP WATER LINE INSIDE 18" CMP

EXIST. 8" PVC SEWER

INSTALL 8" DIP SEWER

18.75'

P-15 P-34

5+00 6+00 7+00 8+00 9+00 10+00

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

PE _____ Date 10/11/10

M.S.E. RETAINING WALL "G" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "G"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 Seal Only WA Approved 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

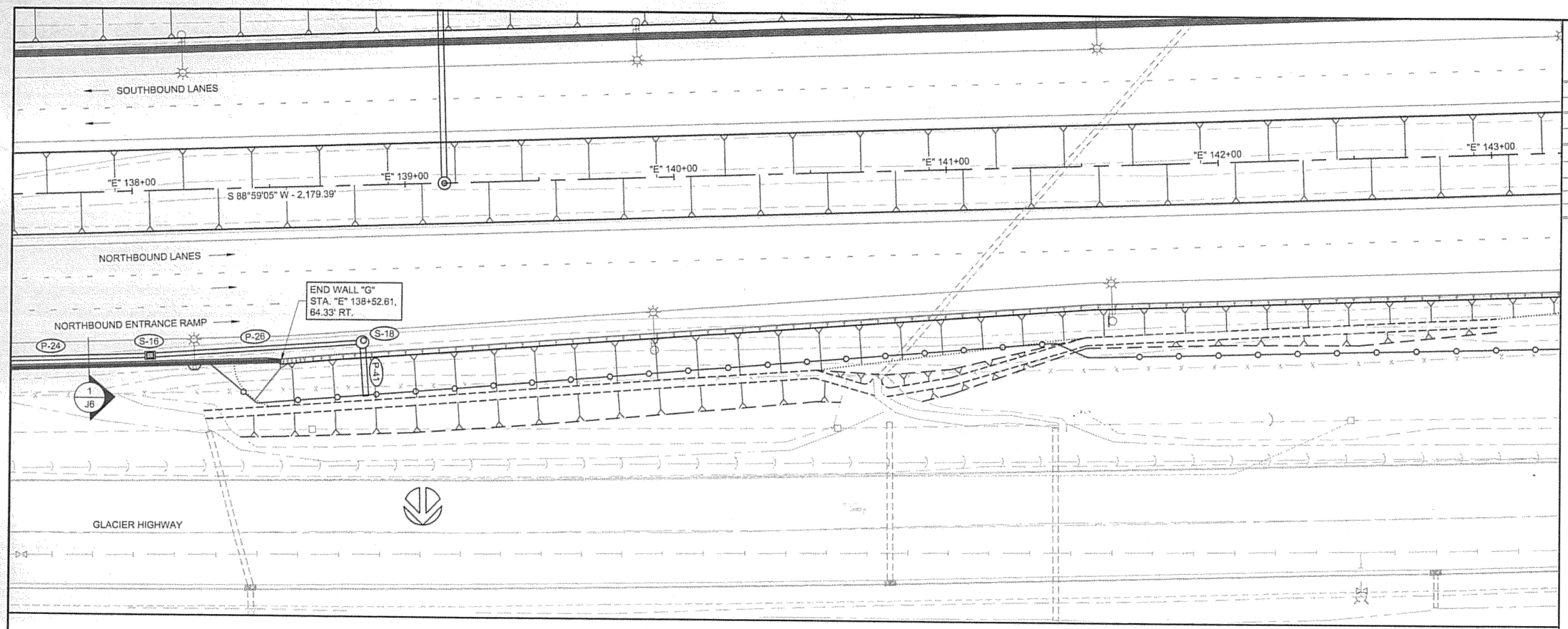
M.S.E. Retaining Wall "G"
PLAN & ELEVATION

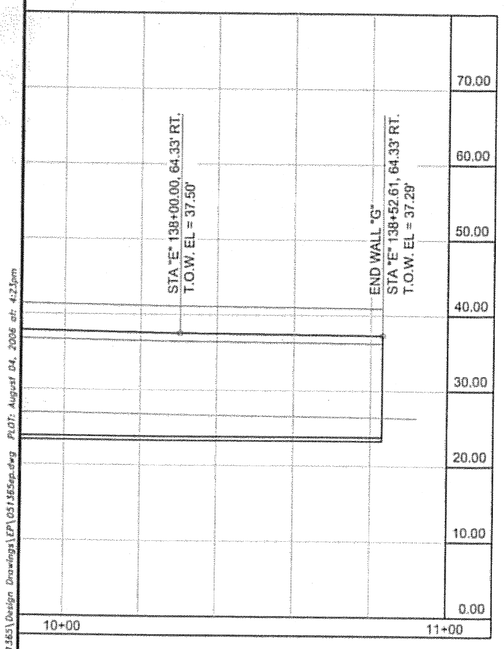
PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M10	269

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M.S.E. RETAINING WALL "G" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "G"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

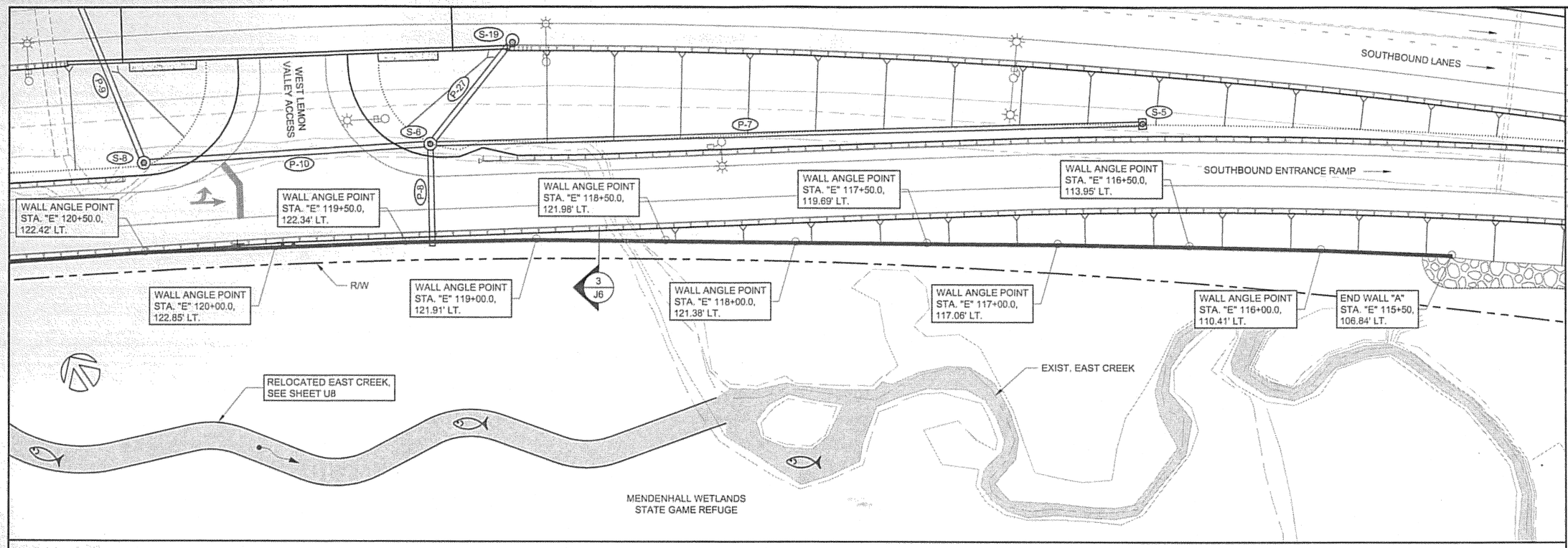
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DRAWN BY: STAFF

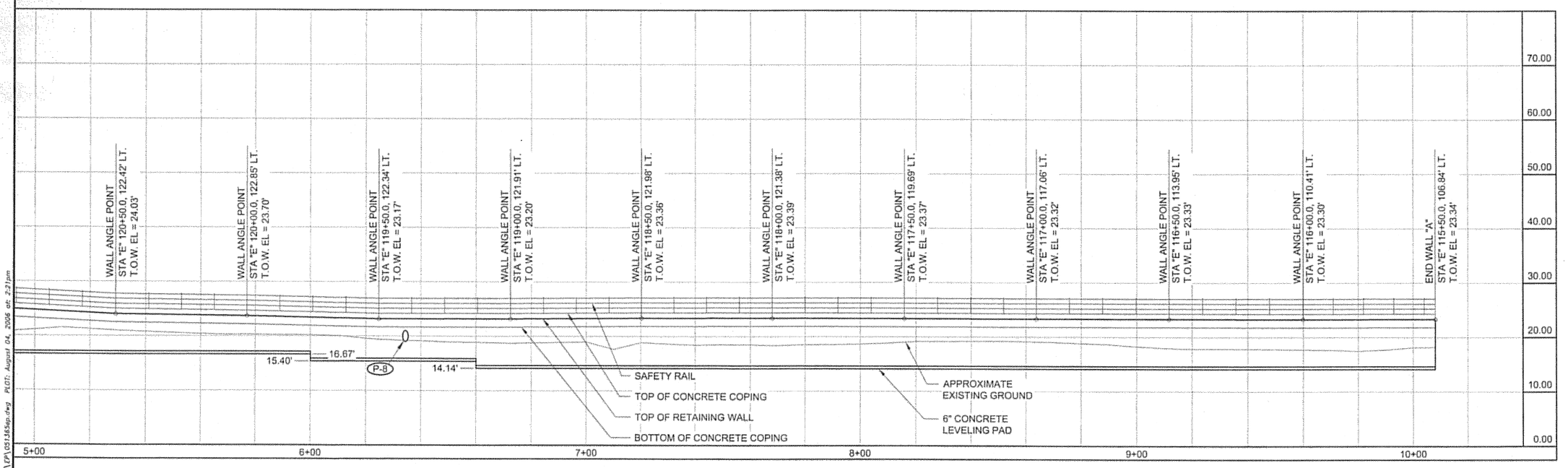
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

M.S.E. Retaining Wall "G"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M11	269





M.S.E. RETAINING WALL "A" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "A"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

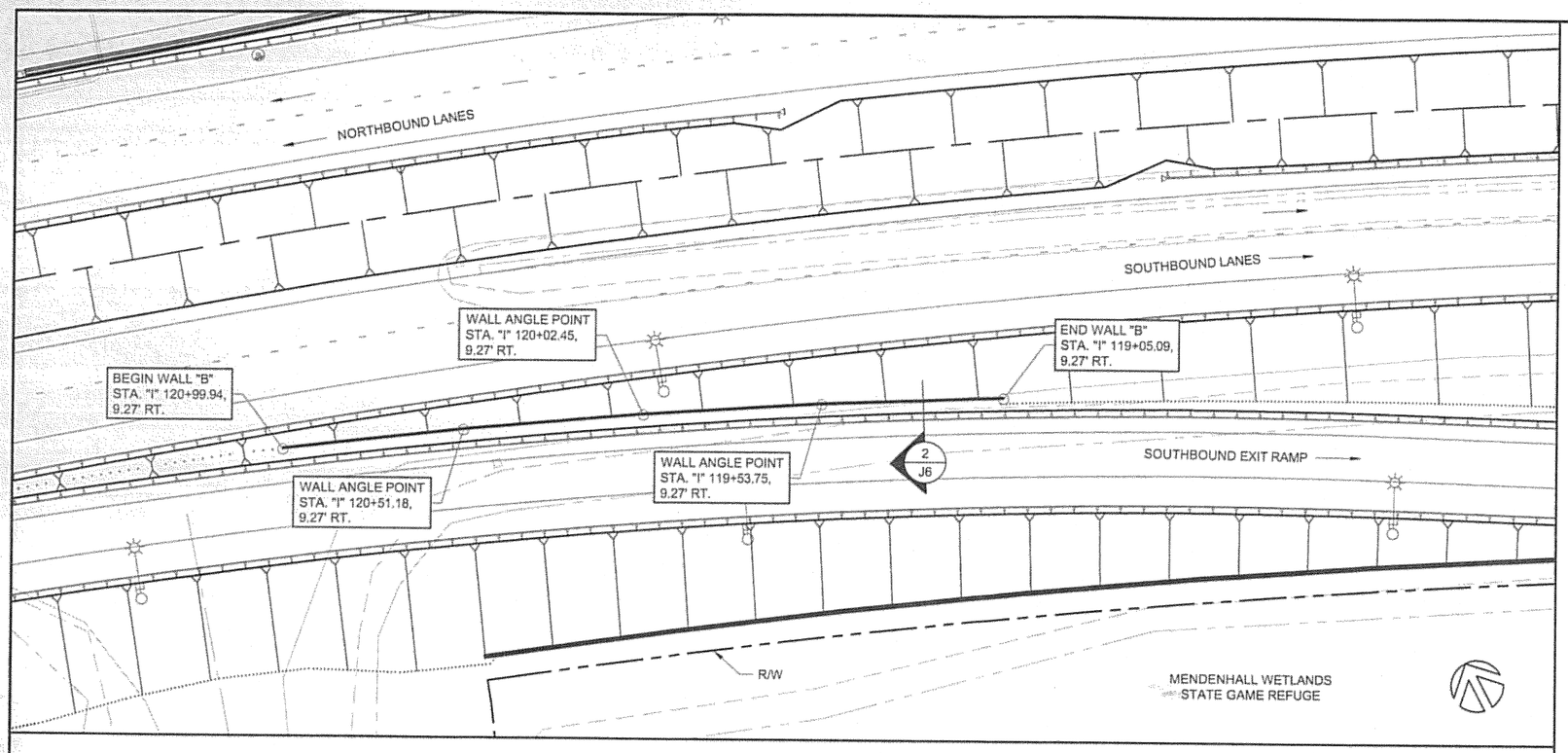
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

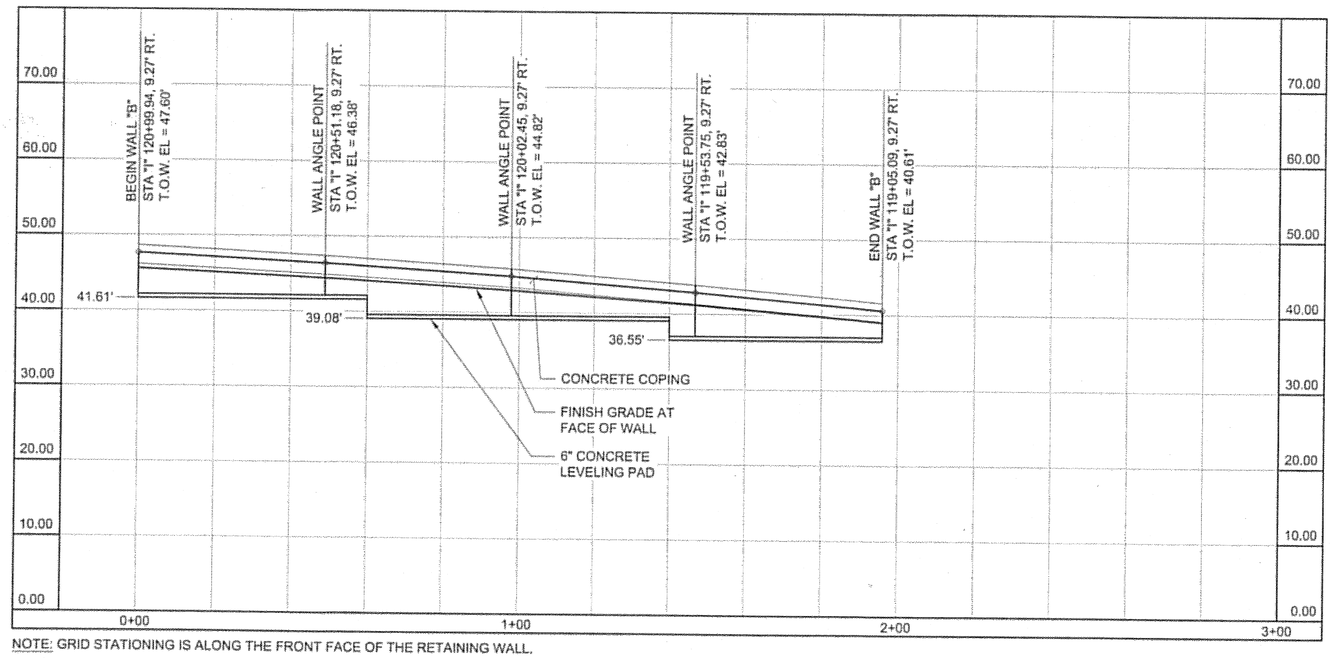
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

M.S.E. Retaining Wall "A"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M2	269

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NOTE: GRID STATIONING IS ALONG THE FRONT FACE OF THE RETAINING WALL.

M.S.E. RETAINING WALL "B" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "B"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

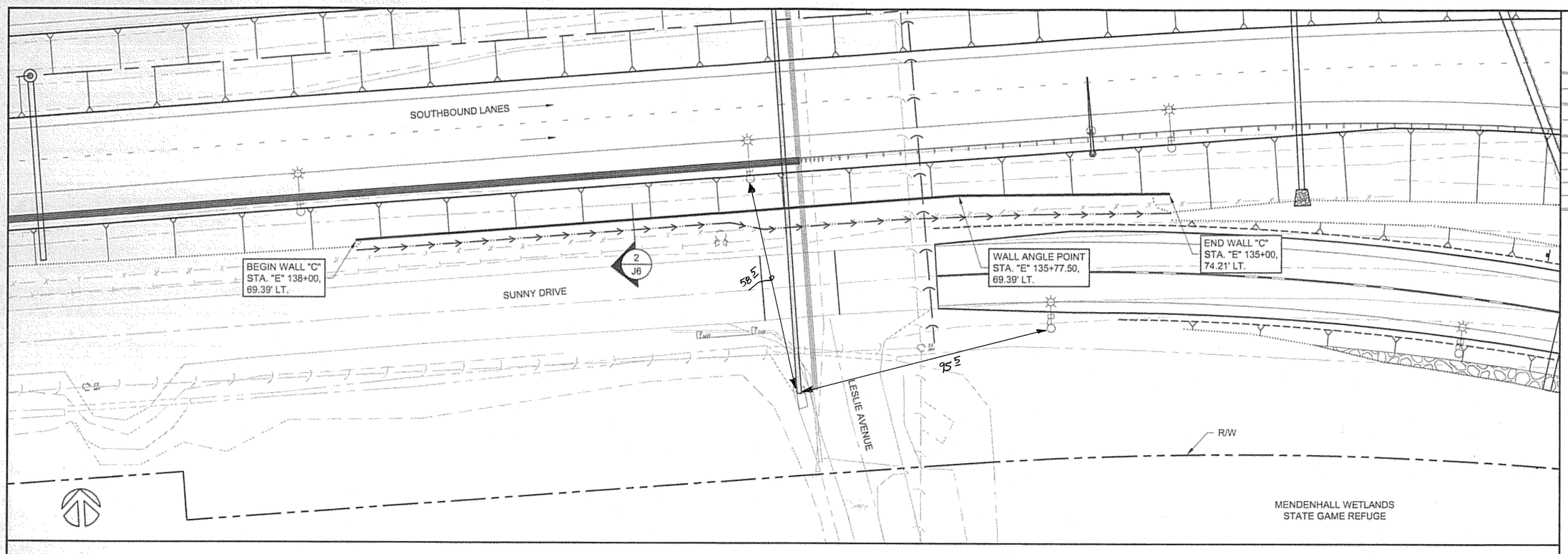
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

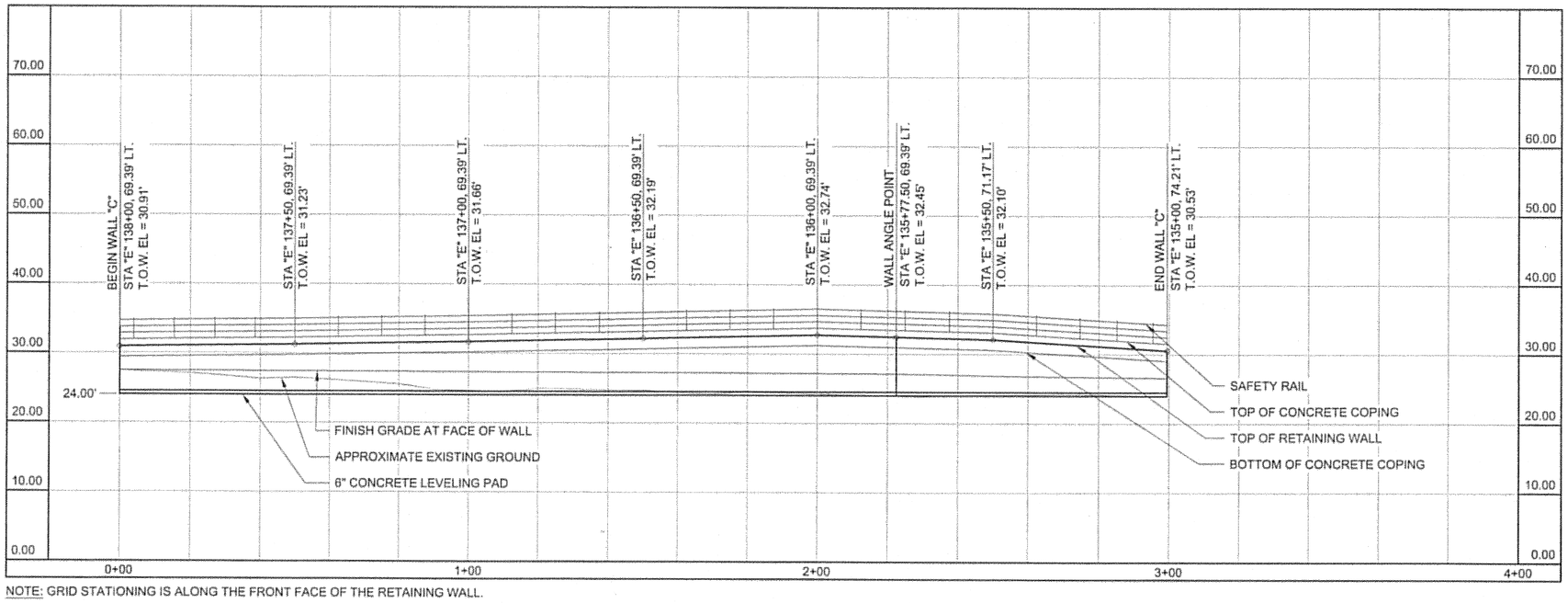
M.S.E. Retaining Wall "B"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
M3	**269**

A:\2005\051365\Design Drawings\CP\051365sp.dwg PLOT: August 04, 2006 at: 2:21pm





NOTE: GRID STATIONING IS ALONG THE FRONT FACE OF THE RETAINING WALL.

M.S.E. RETAINING WALL "C" PLAN & ELEVATION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/14

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "C"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

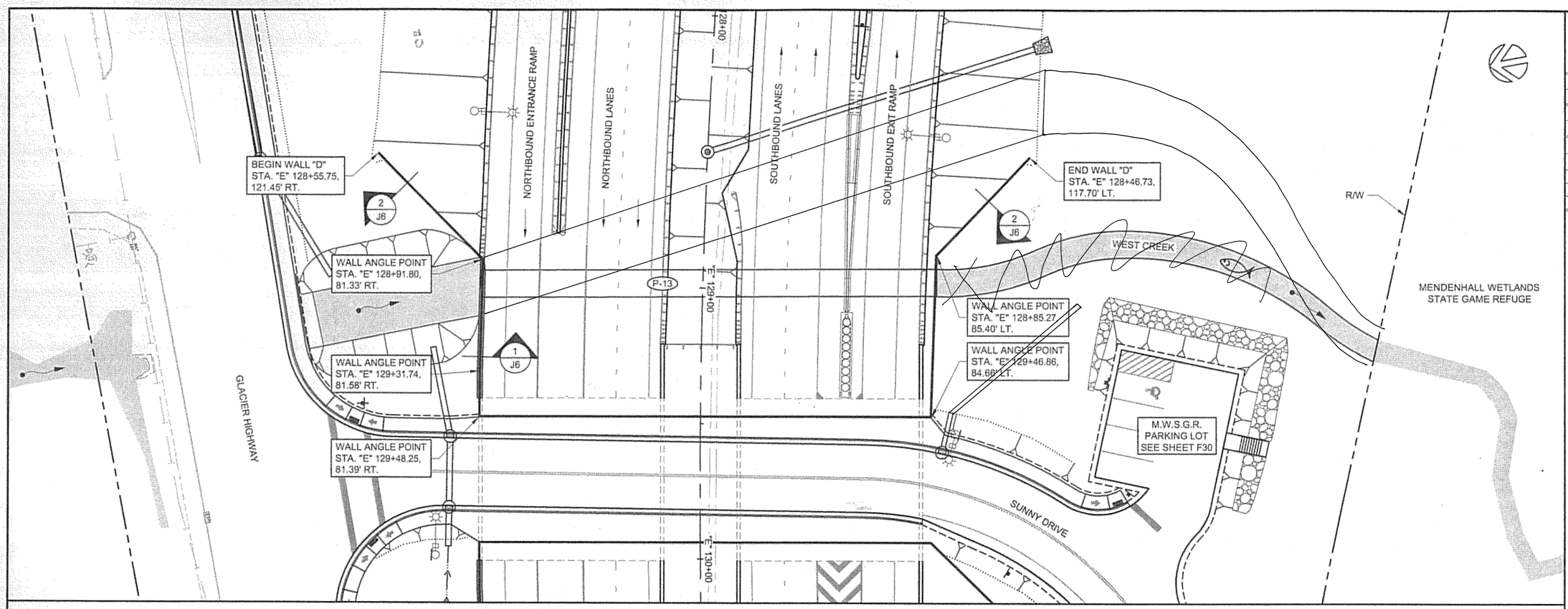
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

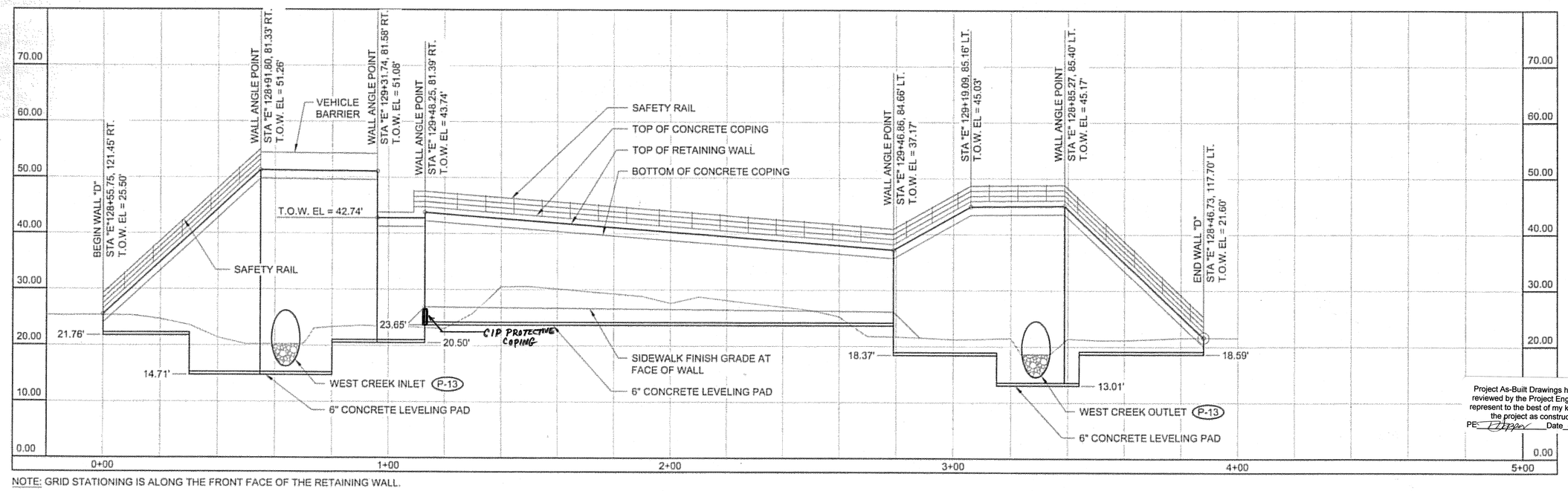
M.S.E. Retaining Wall "C"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M4	269

A:\2005\051A65\Design Drawings\EPS\051A65sp.dwg PLOT: August 04, 2006 at: 2:27pm





NOTE: GRID STATIONING IS ALONG THE FRONT FACE OF THE RETAINING WALL.

M.S.E. RETAINING WALL "D" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "D"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
19TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

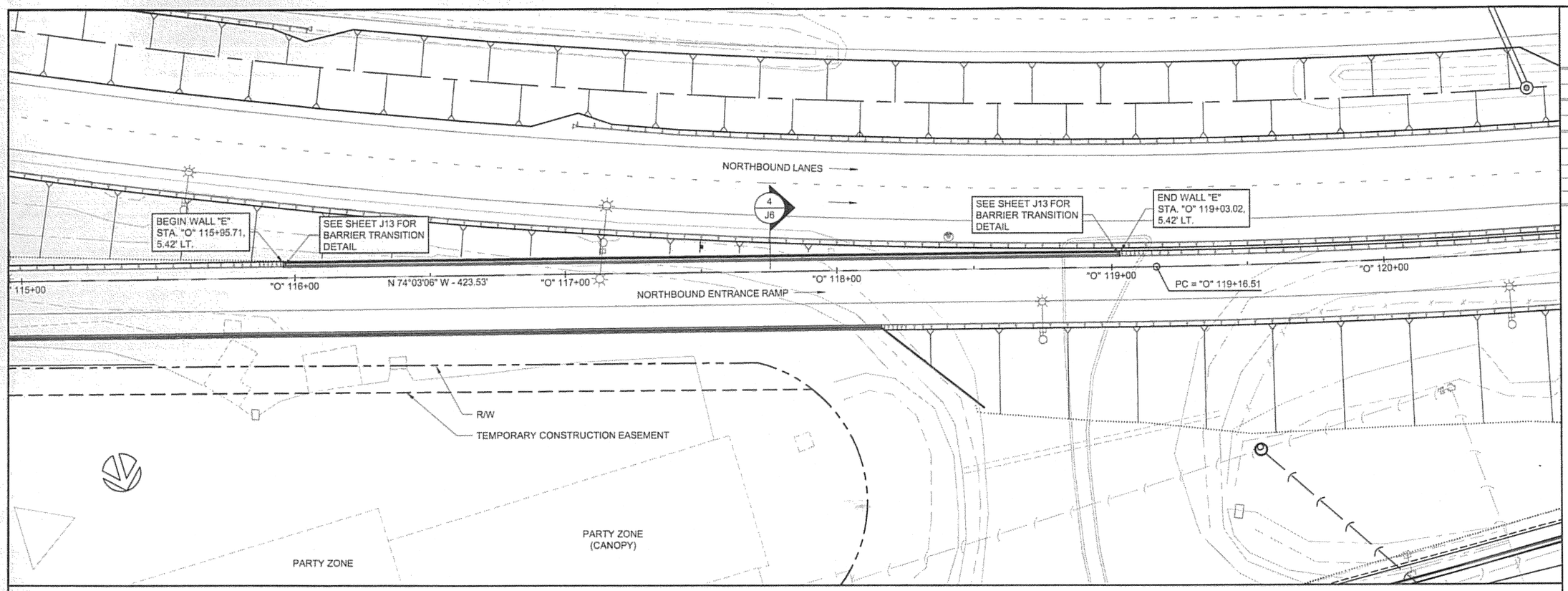
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

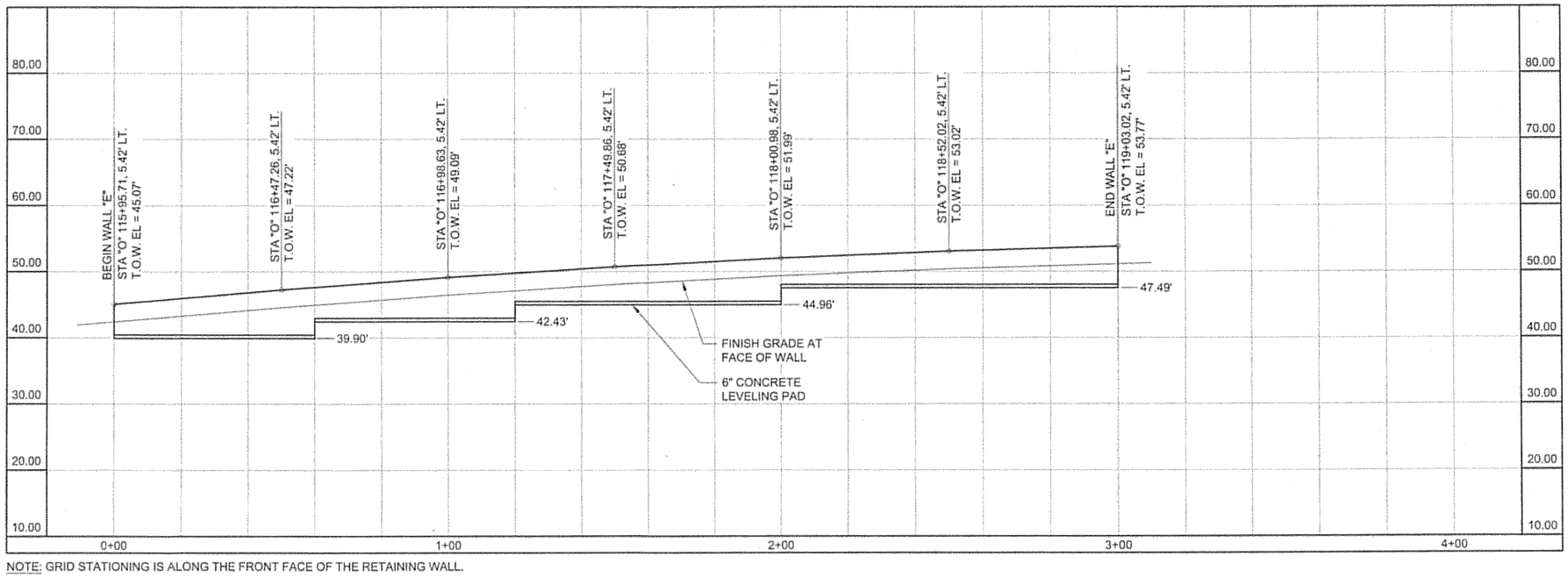
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: _____ Date 10/14/10

M.S.E. Retaining Wall "D"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M5	269

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NOTE: GRID STATIONING IS ALONG THE FRONT FACE OF THE RETAINING WALL.

M.S.E. RETAINING WALL "E" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "E"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

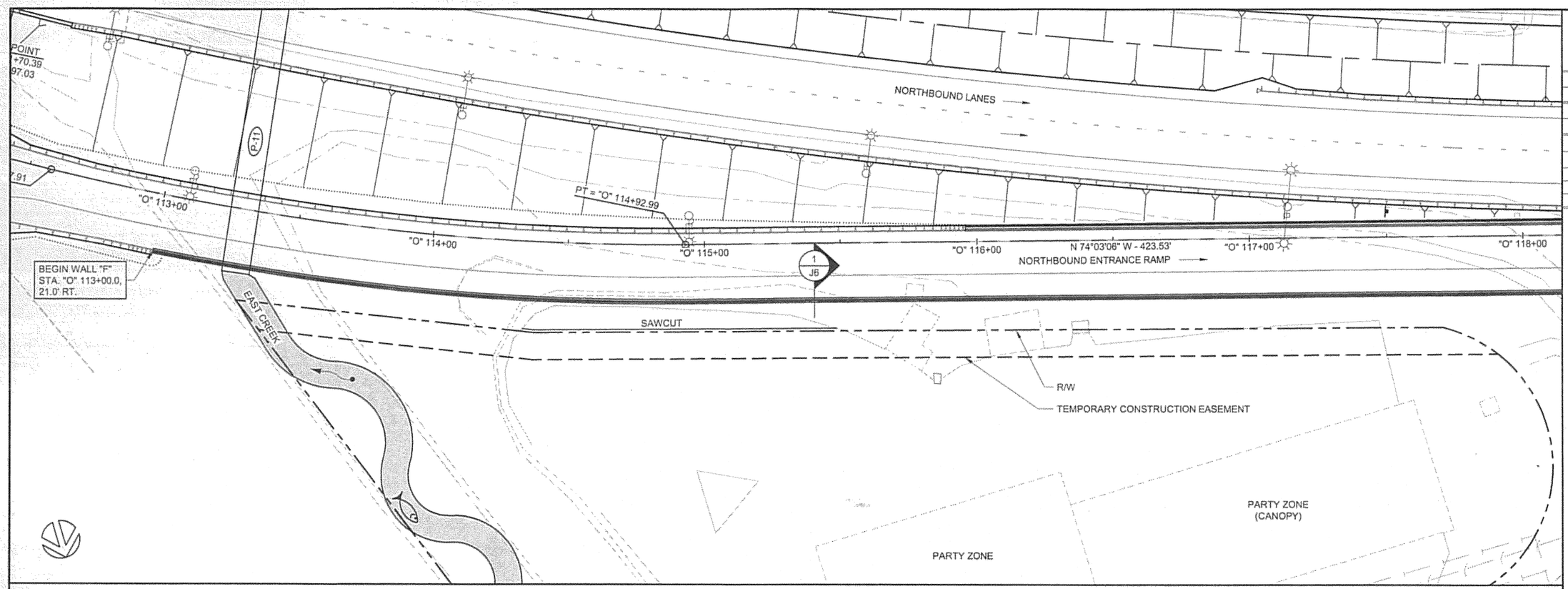
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

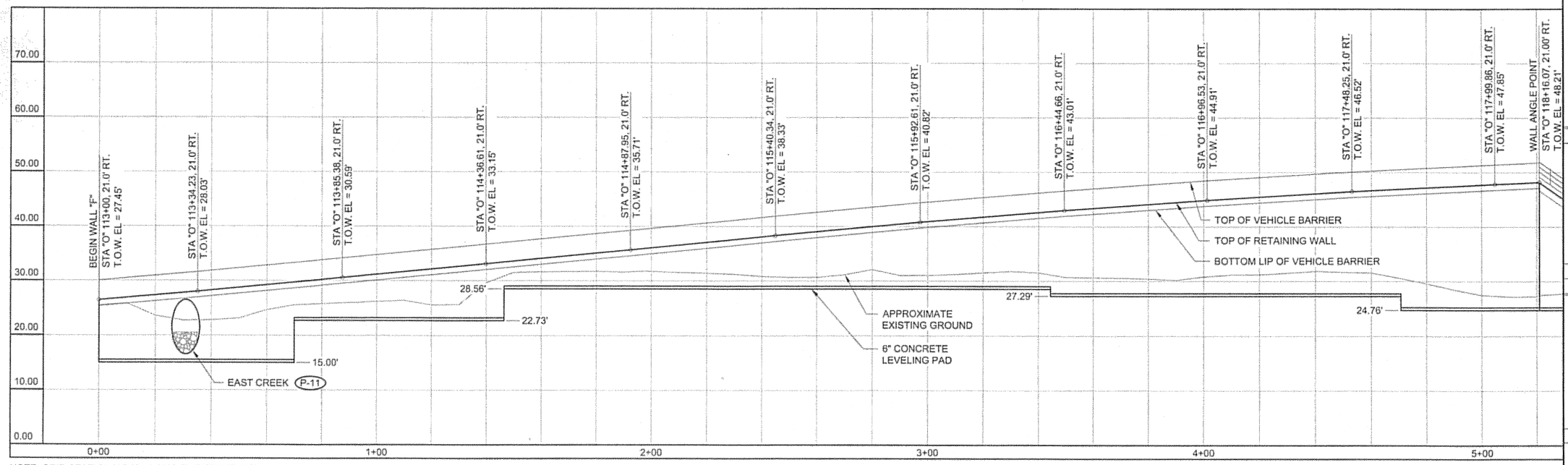
M.S.E. Retaining Wall "E"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M6	269

E:\2005\051563\Design Drawings\EP\051565ep.dwg PLOT: August 04, 2006 at: 2:21pm





NOTE: GRID STATIONING IS ALONG THE FRONT FACE OF THE RETAINING WALL.

M.S.E. RETAINING WALL "F" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "F"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8406

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

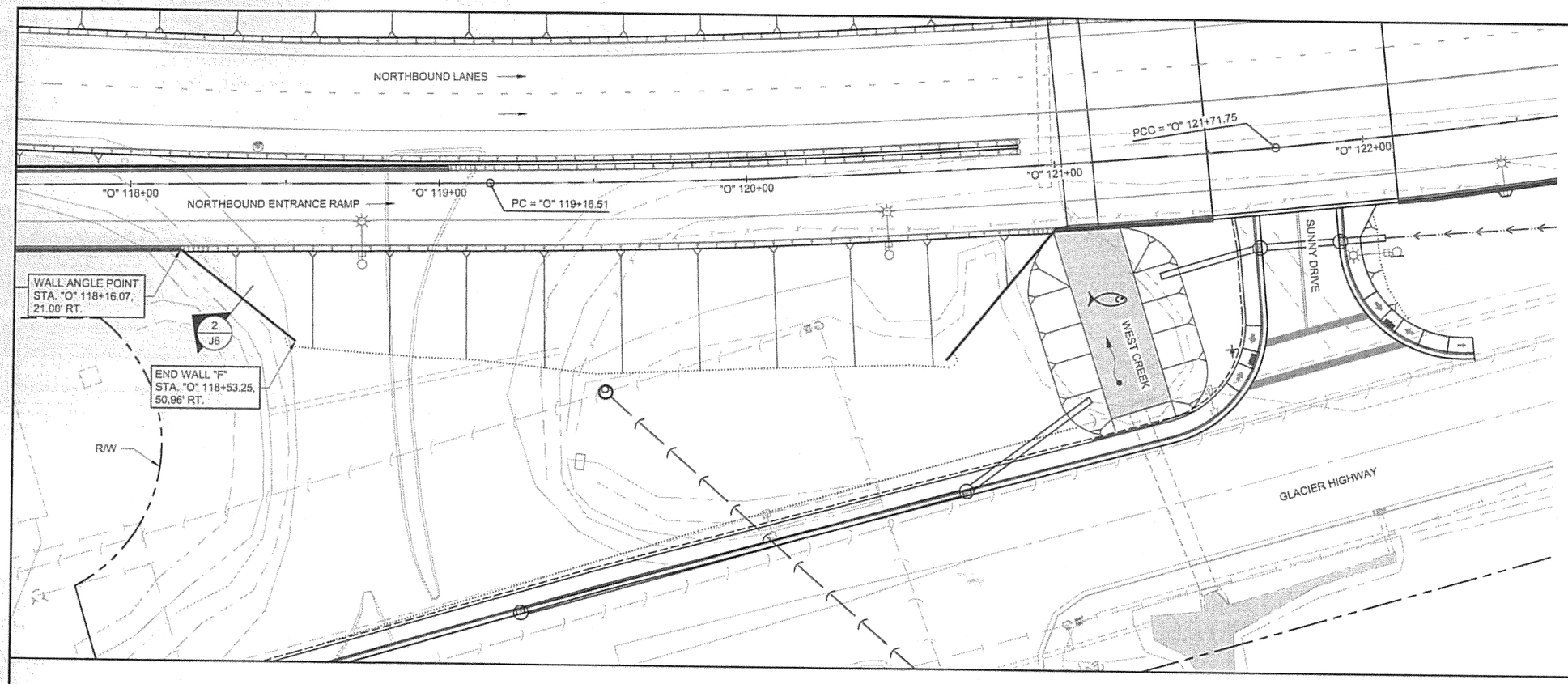
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

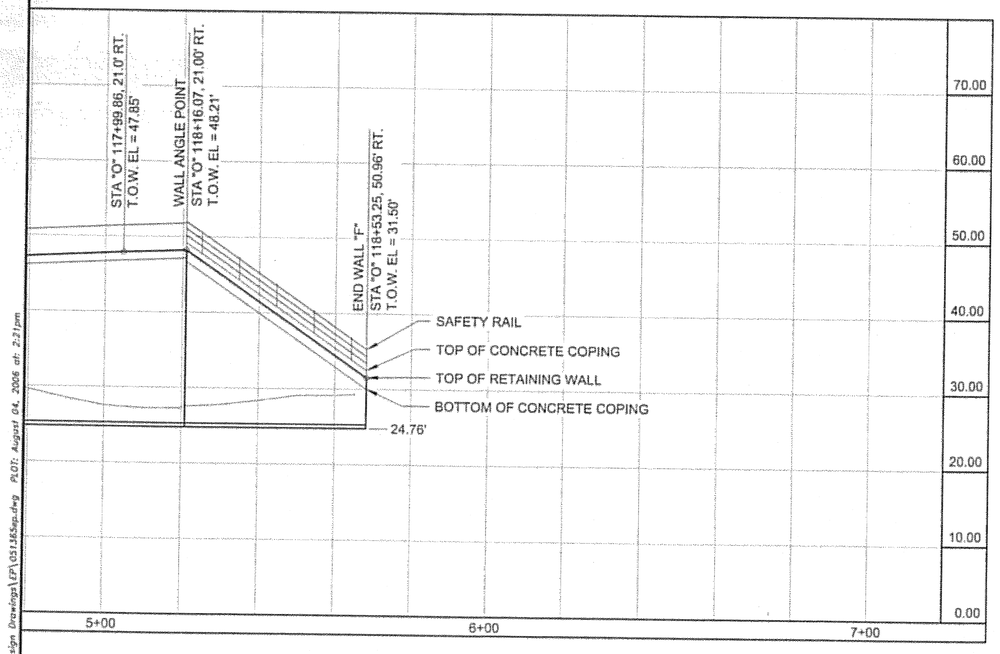
M.S.E. Retaining Wall "F"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M7	269

A:\2005\051581\Design Drawings\EPI 051365sp.dwg PLOT: August 04, 2006 at: 3:55pm





M.S.E. RETAINING WALL "F" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A:\2005\051363\Design Drawings\LP\051363sp.dwg PLOT: August 04, 2006 at: 2:21pm

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "F"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

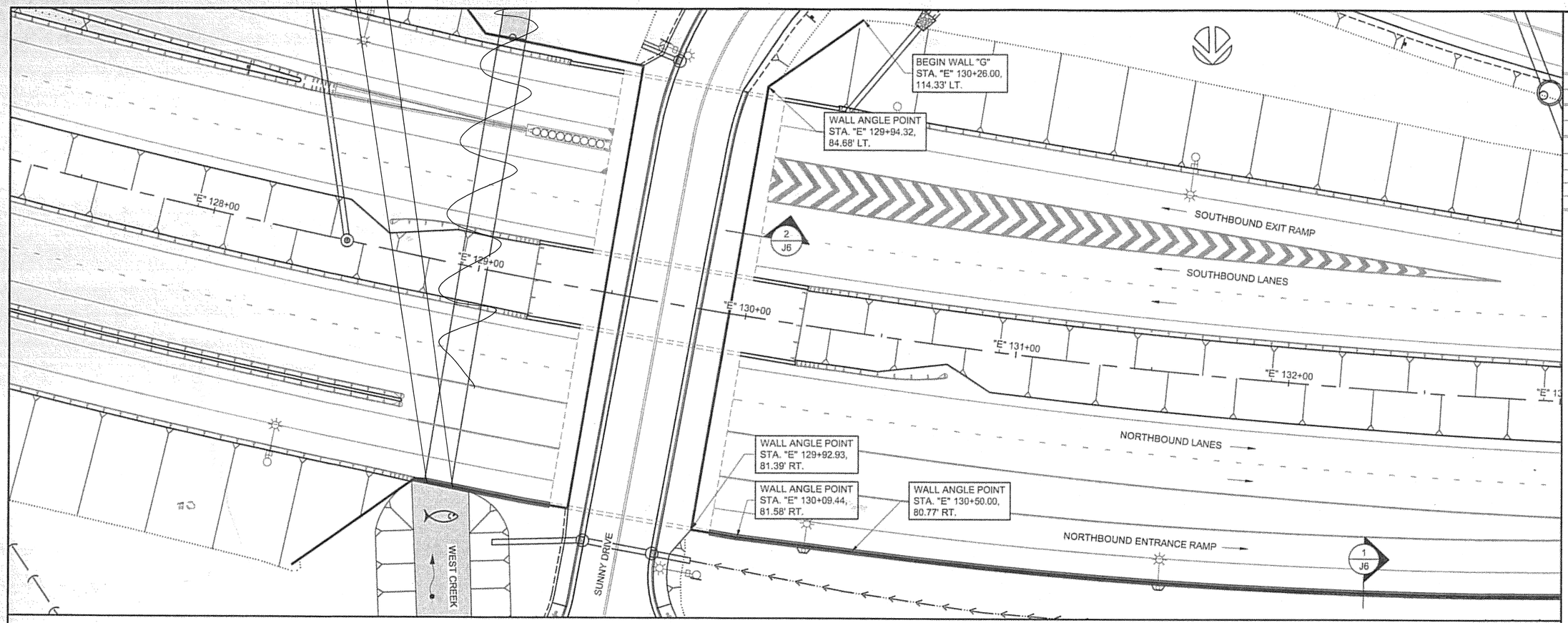
STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
REGISTERED PROFESSIONAL ENGINEER
8-4-06

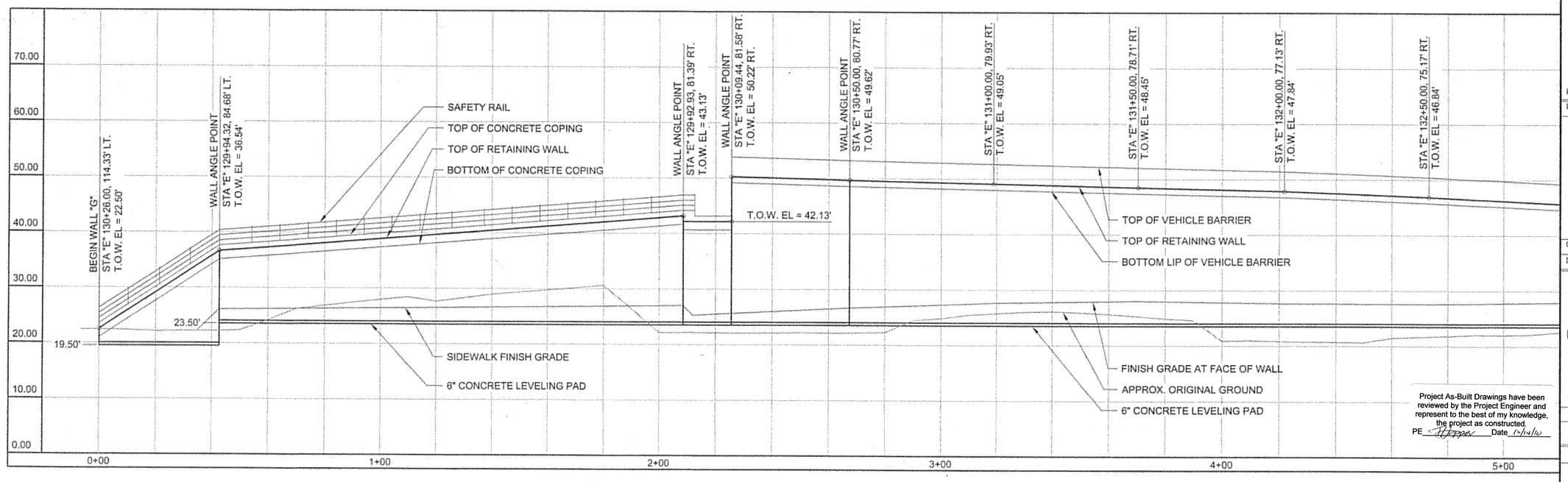
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

M.S.E. Retaining Wall "F"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
M8	**269**





Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/4/06

M.S.E. RETAINING WALL "G" PLAN & ELEVATION

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

M.S.E. Retaining Wall "F"
PLAN & ELEVATION

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8153
10-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

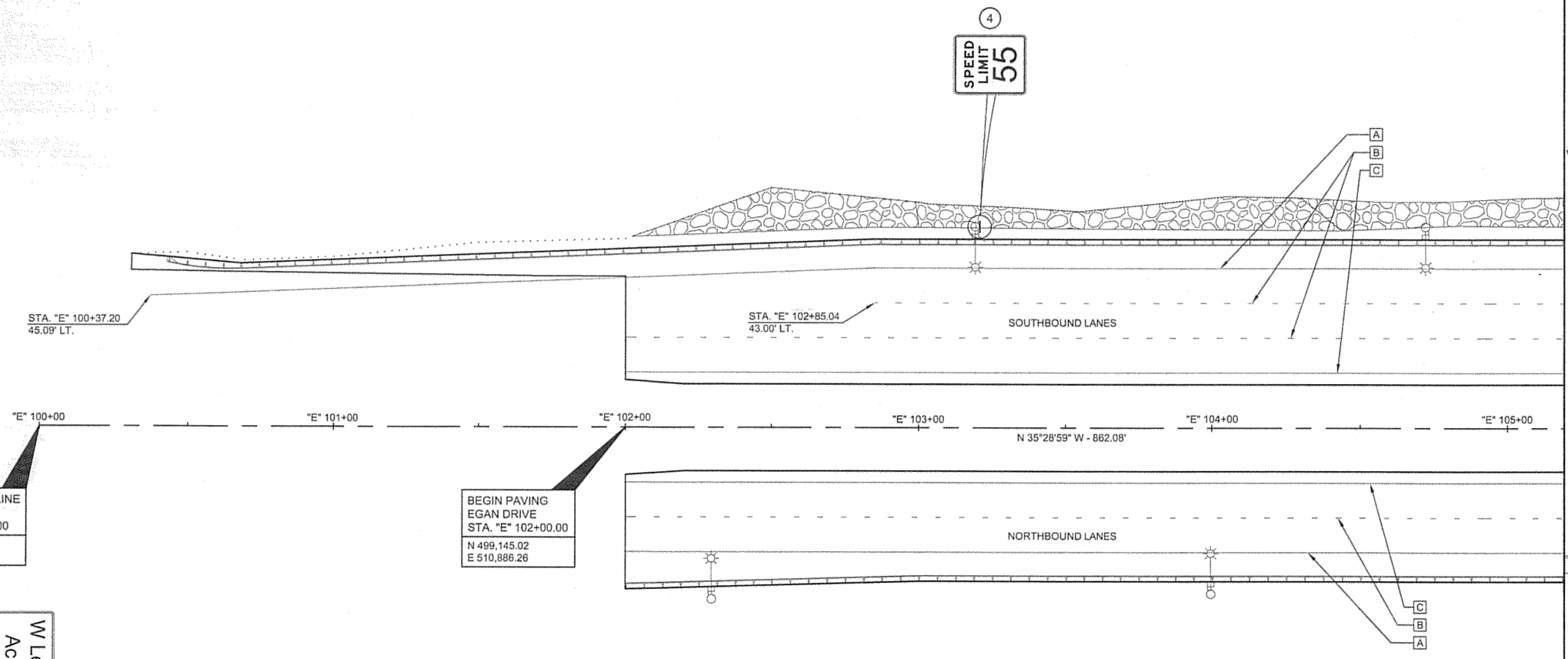
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

M.S.E. Retaining Wall "G"
PLAN & ELEVATION

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
M9	269

A:\2005\051463\Design Drawings\EPS\051463sp.dwg PLOT: August 04, 2006 at: 2:21pm



STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

STRIPING LEGEND

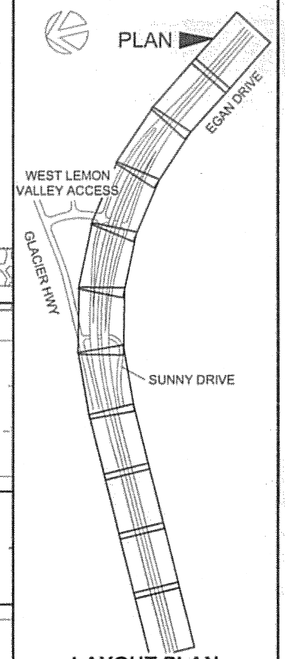
SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	749
B	BROKEN WHITE	4"	10' – 30' – 10'	METHYL METHACRYLATE	794
C	SOLID YELLOW	4"		METHYL METHACRYLATE	586
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' – 30' – 10'	-	0
H	BROKEN YELLOW	4"	10' – 30' – 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

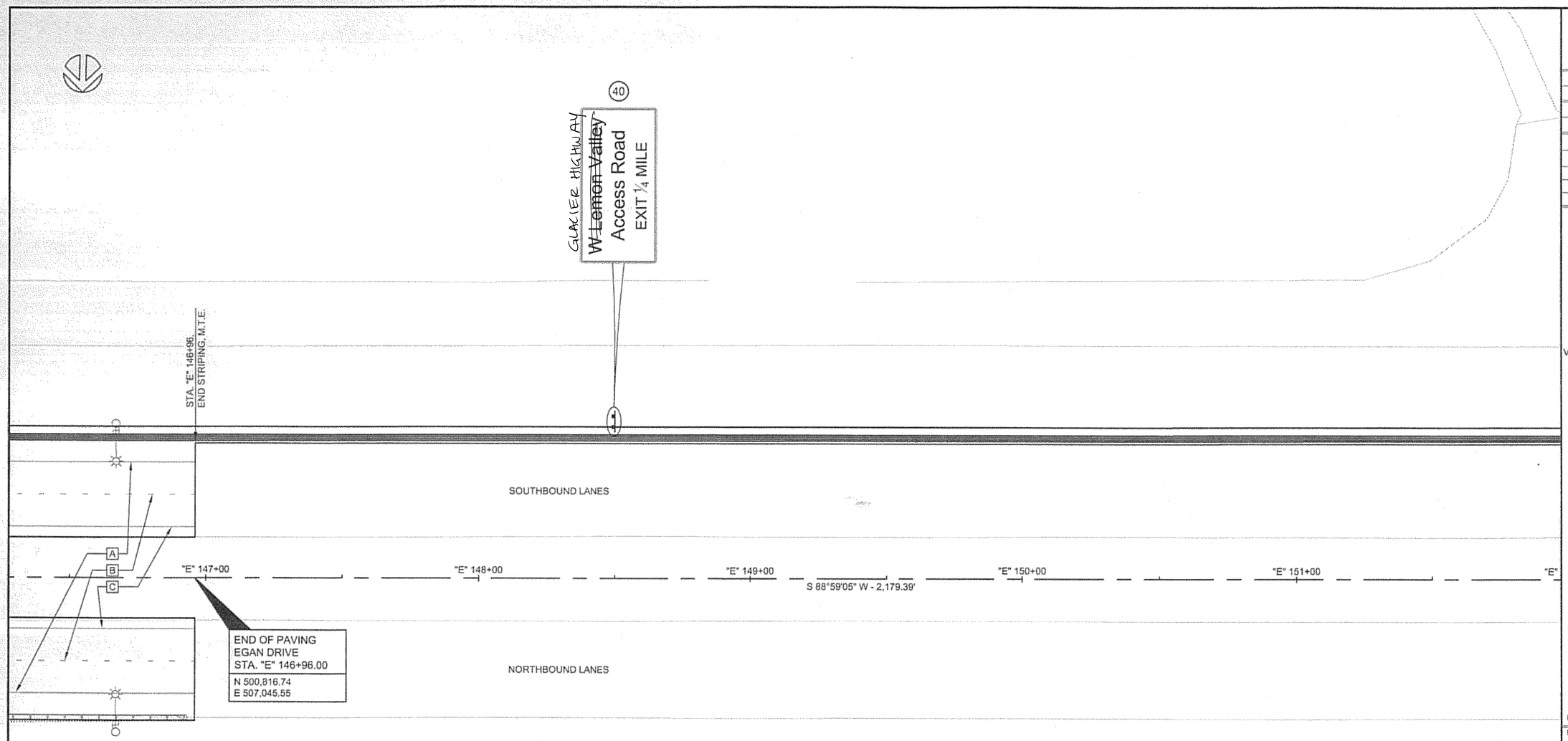
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P1	269

C:\2005\051365\Design Drawings\PP\051365sp.dwg PLOT: August 04, 2006 at: 2:22pm



STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	84
B	BROKEN WHITE	4"	10' — 30' — 10'	METHYL METHACRYLATE	84
C	SOLID YELLOW	4"		METHYL METHACRYLATE	84
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' — 30' — 10'	-	0
H	BROKEN YELLOW	4"	10' — 30' — 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0

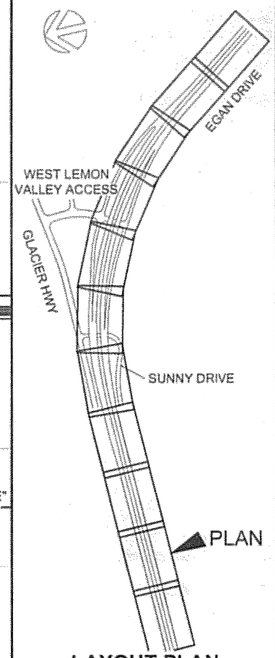
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — PROFESSIONAL ENGINEER — 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P10	269

J:\2003\051463\Design Drawings\EPL051463sp.dwg PLOT: August 04, 2006 at: 2:23pm

STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		-	0
B	BROKEN WHITE	4"	10' 30' 10'	-	0
C	SOLID YELLOW	4"		-	0
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' 30' 10'	-	0
H	BROKEN YELLOW	4"	10' 30' 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0

SOUTHBOUND LANES

"E" 152+00 "E" 153+00 "E" 154+00 "E" 155+00 "E" 156+00 "E" 157+00

S 88°59'05" W - 2,179.39'

END "E" BASELINE
EGAN DRIVE
STA. "E" 157+06.82
N 500,798.83
E 506,034.89

NORTHBOUND LANES

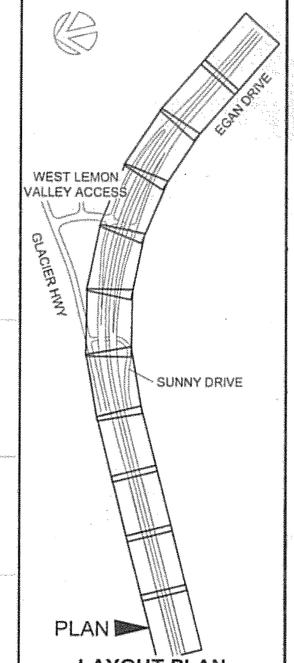
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A1,20051,051L651,Design Drawings\PI\051L65sp.dwg PLOT: August 04, 2006 at: 2:31pm

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

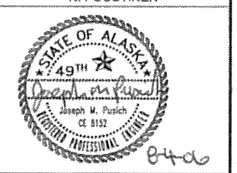
No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN



CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

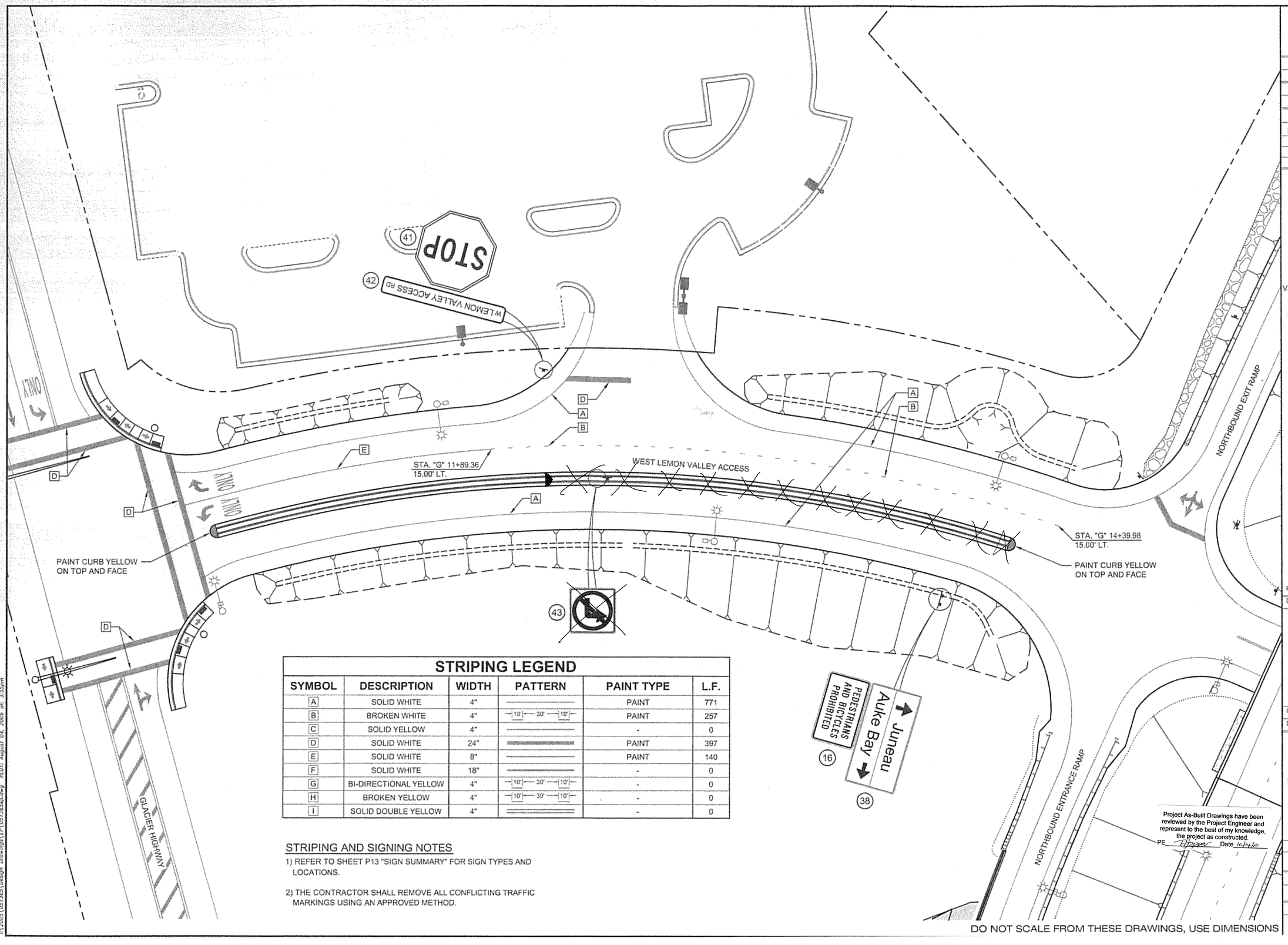
SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
P11	269



STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		PAINT	771
B	BROKEN WHITE	4"	10' – 30' – 10'	PAINT	257
C	SOLID YELLOW	4"		-	0
D	SOLID WHITE	24"		PAINT	397
E	SOLID WHITE	8"		PAINT	140
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' – 30' – 10'	-	0
H	BROKEN YELLOW	4"	10' – 30' – 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0

STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

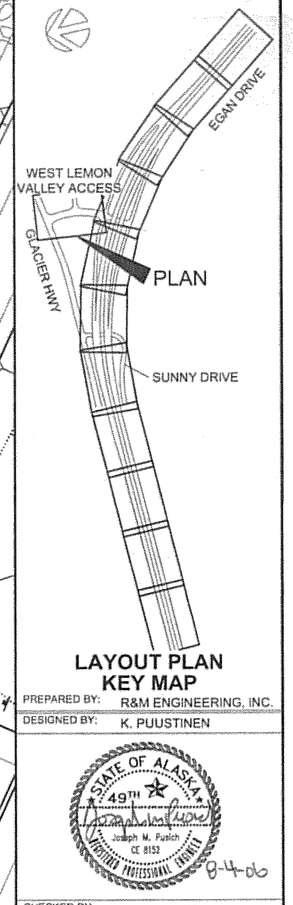
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P12	269

A:\2005\051363\Design Drawings\[P1 051363sp.dwg PLOT: August 04, 2006 at: 3:55pm

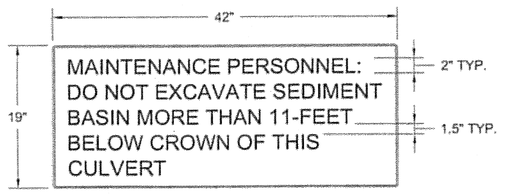
615 (1) STANDARD SIGNING SCHEDULE

SIGN No.	STATION	OFFSET LT.	OFFSET RT.	CODE No.	LEGEND	SIZE	AREA S.F.	No. OF POSTS	TYPE	FACING TRAFFIC SEE NOTE 10	REMARKS
1	"E" 106+90		57.3'	E4-12	~~W Lemon Valley Access Road~~ GLACIER HWY ACCESS ROAD	66" x 210"	96.25	1	OVERHEAD	NB	MOUNT SIGN ON STANDARD OVERHEAD SIGN & BASE STRUCTURE (SEE STD. DWG. S-22.00)
2	"E" 111+13		60.2'	E5-1	EXIT	60" x 60"	25.00	1	2 ½" PST	NB	
3	"E" 93+50		59.0'	E1-2A	~~W Lemon Valley Access Road~~ GLACIER HWY. ACCESS ROAD EXIT ¼ MILE EXIT ¼ MILE	66" x 150"	68.75	2	6 X 8 W	NB	
4	"E" 103+21	69.3'		R2-1	SPEED LIMIT 55	36" x 48"	12.00	0		SB	MOUNT SIGN TO LIGHT POLE
5	"E" 115+07	57.5'		W4-1	MERGE ARROW	48" x 48"	16.00	0		SB	MOUNT SIGN TO LIGHT POLE
6	"I" 114+83	22.5'		R6-1L	ONE WAY	48" x 16"	5.33	0		WB	MOUNT ABOVE SIGN 7
7	"I" 114+83	22.5'		R1-1	STOP	36" x 36"	9.00	1	2 ½" PST	SB	MOUNT BELOW SIGN 6
8	"G" 16+50		26.0'	R3-1	NO RIGHT HAND TURN SYMBOL	36" x 36"	9.00	1	2 ½" PST	WB	
9	"O" 110+41	11.6'		R5-1A	WRONG WAY	42" x 30"	8.75	0		SB	MOUNT SIGN TO LIGHT POLE
10	"O" 110+40		24.8'	R5-1A	WRONG WAY	42" x 30"	8.75	1	2 ½" PST	SB	
11	"O" 111+24	14.4'		R6-1L	ONE WAY	48" x 16"	5.33	0		EB	MOUNT ABOVE SIGN 13, BACK TO BACK
12	"O" 111+24	14.4'		R6-1R	ONE WAY	48" x 16"	5.33	0		WB	MOUNT ABOVE SIGN 13, BACK TO BACK
13	"O" 111+24	14.4'		R5-1	DO NOT ENTER	36" x 36"	9.00	1	2 ½" PST	SB	
14	"G" 15+40	26.0'		R3-1	NO RIGHT HAND TURN SYMBOL	36" x 36"	9.00	1	2 ½" PST	EB	
15	"O" 111+22		34.0'	R1-1	STOP	36" x 36"	9.00	1	2 ½" PST	NB	
16	"G" 14+00		33.0'	R5-10B	PEDESTRIANS AND BICYCLES PROHIBITED	30" x 18"	3.75	0		WB	MOUNT BELOW SIGN 38
17	"I" 115+85	22.5'		R5-1A	WRONG WAY	42" x 30"	8.75	1	2 ½" PST	NB	
18	"I" 115+85		12.8'	R5-1A	WRONG WAY	42" x 30"	8.75	0		NB	MOUNT SIGN TO LIGHT POLE
19	"E" 125+50		55.5'	W4-1	MERGE ARROW	48" x 48"	16.00	1	2 ½" PST	NB	
20	"S" 13+09	29.6'		R1-1	STOP	30" x 30"	6.25	1	2 ½" PST	NB	
21	"S" 12+86	59.0'		R7-8A	VAN ACCESSIBLE	18" x 9"	1.13	1	2 ½" PST	EB	MOUNT BELOW SIGN 22
22	"S" 12+86	59.0'		R7-8	RESERVED PARKING	12" x 18"	1.50	0		EB	MOUNT ABOVE SIGN 21
23	"E" 128+00	54.2'		E5-1	EXIT	60" x 60"	25.00	1	2 ½" PST	SB	
24	"S" 12+54	20.6'		W12-2A	15'-8"	36" x 36"	9.00	0		EB	MOUNT SIGN TO LIGHT POLE
25	"S" 12+90	20.0'		W1-1R	TURN RIGHT	36" x 36"	9.00	1	2 ½" PST	WB	MOUNT ABOVE SIGN 26
26	"S" 12+90	20.0'		W13-1	15 MPH	24" x 24"	4.00	0		WB	MOUNT BELOW SIGN 25
27	"E" 141+58		57.3'	R2-1	SPEED LIMIT 55	36" x 48"	12.00	0		NB	MOUNT SIGN TO LIGHT POLE
28	"S" 10+39	24.6'		D3-1	SUNNY DR	8" x 30"	1.67	0		NB/SB	MOUNT ABOVE SIGN 39
29	"S" 10+39	24.6'		R1-1	STOP	30" x 30"	6.25	1	2 ½" PST	EB	MOUNT BELOW SIGN 39
30	"S" 10+66		30.9'	W12-2A	15'-8"	36" x 36"	9.00	0		WB	MOUNT SIGN TO LIGHT POLE
31	"S" 15+50		20.0'	R2-1	SPEED LIMIT 35	30" x 36"	7.50	1	2 ½" PST	NB	
32	"S" 15+45	20.7'		W1-1R	TURN LEFT	36" x 36"	9.00	0		SB	MOUNT ON LIGHT POLE ABOVE 33
33	"S" 15+45	20.7'		W13-1	15 MPH	24" x 24"	4.00	0		SB	MOUNT ON LIGHT POLE BELOW 32
34	"S" 16+70		20.0'	W14-2	NO OUTLET	36" x 36"	9.00	1	2 ½" PST	NB	
35	"E" 135+27	57.3'		E4-12	~~W Lemon Valley Access Road~~ GLACIER HWY. ACCESS ROAD	66" x 210"	96.25	1	OVERHEAD	SB	MOUNT SIGN ON STANDARD OVERHEAD SIGN & BASE STRUCTURE (SEE STD. DWG. S-22.00)
36	"G" 16+50	26.0'		W6-3	TWO WAY TRAFFIC	48" x 48"	16.00	1	2 ½" PST	EB	
37	"G" 15+31		26.5'	W6-3	TWO WAY TRAFFIC	48" x 48"	16.00	0		WB	MOUNT TO LIGHT POLE
38	"G" 14+00		33.0'	D1-2-2	← Juneau Auke Bay →	24" x 72"	12.00	2	2" PST	WB	
39	"S" 10+39	24.6'		D3-1	GLACIER HWY	8" x 36"	2.00	0		EB/WB	MOUNT ABOVE SIGN 29
40	"E" 148+50		59.0'	E1-2A	~~W Lemon Valley Access Road~~ GLACIER HWY. ACCESS ROAD EXIT ¼ MILE EXIT ¼ MILE	66" x 150"	68.75	2	6 X 8 W	SB	
41	"G" 12+13	49.3'		R1-1	STOP	36" x 36"	9.00	1	2 ½" PST	NB	MOUNT BELOW SIGN 42
42	"G" 12+13	49.3'		D3-1	W LEMON VALLEY ACCESS RD	8" x 60"	3.33	0		NB	MOUNT ABOVE SIGN 41
43	"G" 12+40	0	0	R3-2	~~NO LEFT HAND TURN SYMBOL~~ DELETED	36" x 36"	9.00	1	2 ½" PST	NB	
44	"I" 114+67	22.3'		D1-1	← Juneau	12" x 60"	5.00	2	2" PST	WB	
					★ TOTAL AREA =		685.37 S.F.				

GENERAL SIGNING NOTES:

1. SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS, AS APPROVED BY THE ENGINEER.
2. SEE STD. DWG. S-30.03 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
3. ALL SIGN POSTS SHALL BE TELESCOPING PERFORATED GALVANIZED SQUARE STEEL POSTS.
4. ALL SIGN POSTS SHALL BE .105" THICK EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
5. ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
6. ALL EXISTING SIGNS NOT BEING RELOCATED SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AT THE STATE OF ALASKA D.O.T. & P.F. SOUTHEAST REGION MAINTENANCE STATION AS DIRECTED BY THE ENGINEER.
7. ALL D3-1 STREET NAME SIGNS HAVE THE LEGEND ON BOTH SIDES.
8. SIGNS SHALL BE INSTALLED PER STD. DWG. S-05.01.
9. THE SALVAGING OR DISPOSAL OF EXISTING SIGNS SHALL BE CONSIDERED SUBSIDIARY TO ITEM 615 (1), AND NO ADDITIONAL PAYMENT MADE.
10. FOR THE PURPOSE OF THIS TABLE, EGAN DRIVE IS CONSIDERED RUNNING NORTH AND SOUTH. TRAFFIC TRAVELING TOWARDS DOWNTOWN JUNEAU IS CONSIDERED SOUTHBOUND (SB). TRAFFIC TRAVELING TOWARDS THE MENDENHALL VALLEY IS CONSIDERED NORTHBOUND (NB). TRAFFIC ENTERING FROM THE LEFT OR RIGHT IS CONSIDERED EASTBOUND (EB) OR WESTBOUND (WB) RESPECTIVELY.

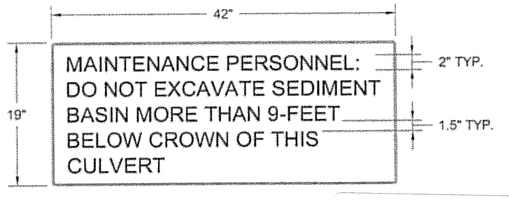
★ TRAFFIC SIGNAL SIGNING NOT INCLUDED HERE, SEE SHEET D6 FOR TRAFFIC SIGNAL STANDARD SIGNING SCHEDULE.



LEGEND COLOR: BLACK
BACKGROUND: WHITE

SPECIAL SIGN No. 1

N.T.S.



LEGEND COLOR: BLACK
BACKGROUND: WHITE

SPECIAL SIGN No. 2

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Signing Summary

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

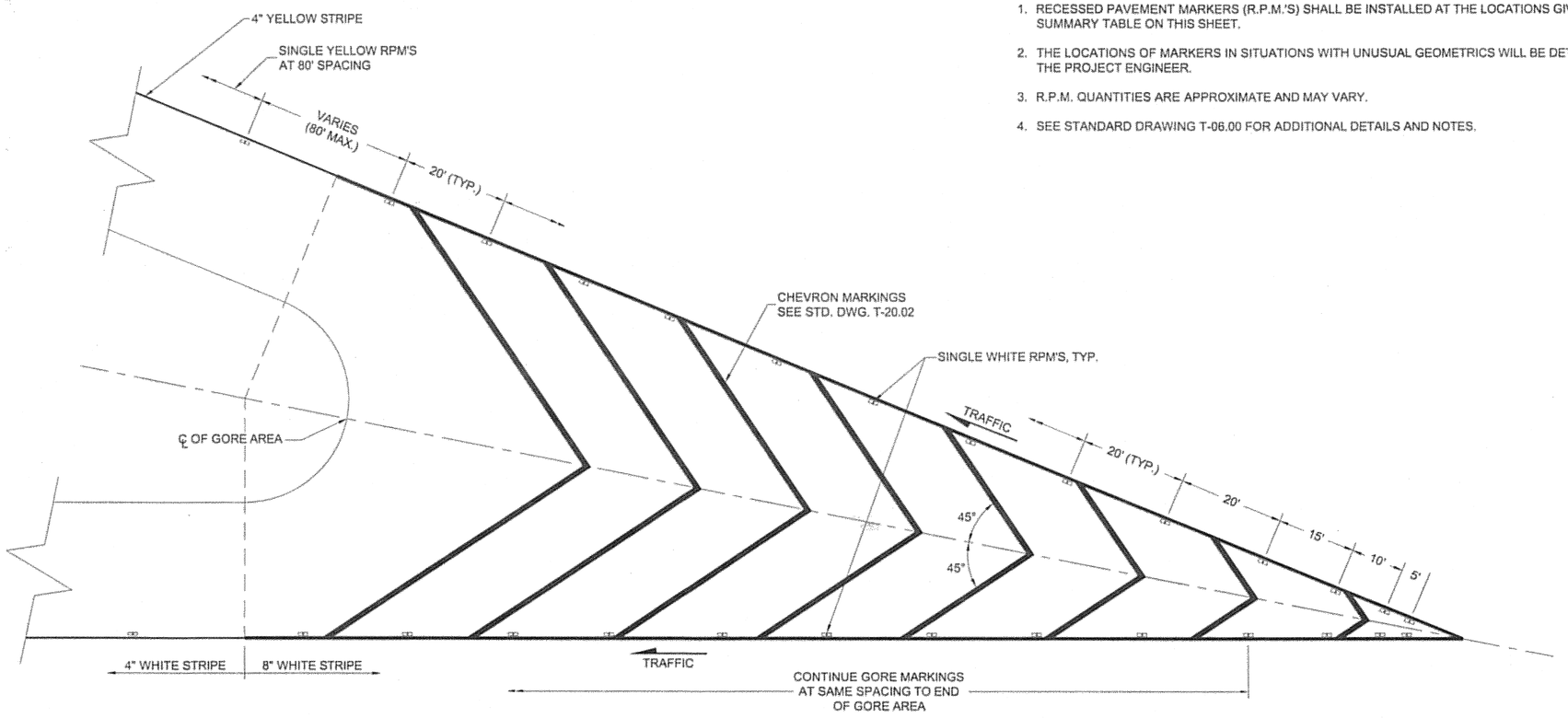
Signing Summary

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P13	269

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RECESSED PAVEMENT MARKER NOTES

1. RECESSED PAVEMENT MARKERS (R.P.M.'S) SHALL BE INSTALLED AT THE LOCATIONS GIVEN IN THE SUMMARY TABLE ON THIS SHEET.
2. THE LOCATIONS OF MARKERS IN SITUATIONS WITH UNUSUAL GEOMETRICS WILL BE DETERMINED BY THE PROJECT ENGINEER.
3. R.P.M. QUANTITIES ARE APPROXIMATE AND MAY VARY.
4. SEE STANDARD DRAWING T-06.00 FOR ADDITIONAL DETAILS AND NOTES.



GORE AREA MARKING LAYOUT

N.T.S.

R.P.M. SUMMARY TABLE

BEGIN STATION & OFFSET	END STATION & OFFSET	QUANTITY	RAISED FACE COLORS
"E" 102+00, 31.0' RT.	"E" 146+96, 31.0' RT.	57	WHITE - ONE SIDE ONLY
"E" 102+00, 31.0' LT.	"E" 146+96, 31.0' LT.	56	WHITE - ONE SIDE ONLY
"E" 108+87, 43.8' RT.	"E" 111+00, 43.8' RT.	13	WHITE - ONE SIDE ONLY
"O" 100+25, 0.8' LT.	"O" 102+43, 0.8' LT.	13	WHITE - ONE SIDE ONLY
"O" 102+43, 0.8' LT.	"O" 111+18, 0.8' LT.	11	YELLOW - ONE SIDE ONLY
"O" 112+23, 0.8' LT.	"O" 120+92, 0.8' LT.	11	YELLOW - ONE SIDE ONLY
"O" 120+92, 0.8' LT.	"O" 126+50, 0.8' LT.	7	WHITE - ONE SIDE ONLY
"E" 128+85, 43.0' RT.	"E" 138+52, 43.0' RT.	12	WHITE - ONE SIDE ONLY
"E" 102+85, 43.0' LT.	"E" 113+63, 43.0' LT.	13	WHITE - ONE SIDE ONLY
"I" 105+00, 0.8' RT.	"I" 108+48, 0.8' RT.	5	WHITE - ONE SIDE ONLY
"I" 108+48, 0.8' RT.	"I" 114+08, 0.8' RT.	7	YELLOW - ONE SIDE ONLY
"I" 115+11, 0.8' RT.	"I" 123+80, 0.8' RT.	11	YELLOW - ONE SIDE ONLY
"I" 123+80, 0.8' RT.	"I" 126+92, 0.8' RT.	18	WHITE - ONE SIDE ONLY
"E" 129+38, 43.8' LT.	"E" 132+55, 43.8' LT.	18	WHITE - ONE SIDE ONLY
"S" 10+45, 0'	"S" 18+91, 0'	21	YELLOW AND YELLOW
"G" 15+32, 0'	"G" 16+67, 0'	3	YELLOW AND YELLOW
"G" 11+89, 15.0' LT.	"G" 14+40, 15.0' LT.	6	WHITE - ONE SIDE ONLY
	TOTAL =	282	

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Signing & Striping Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8406

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

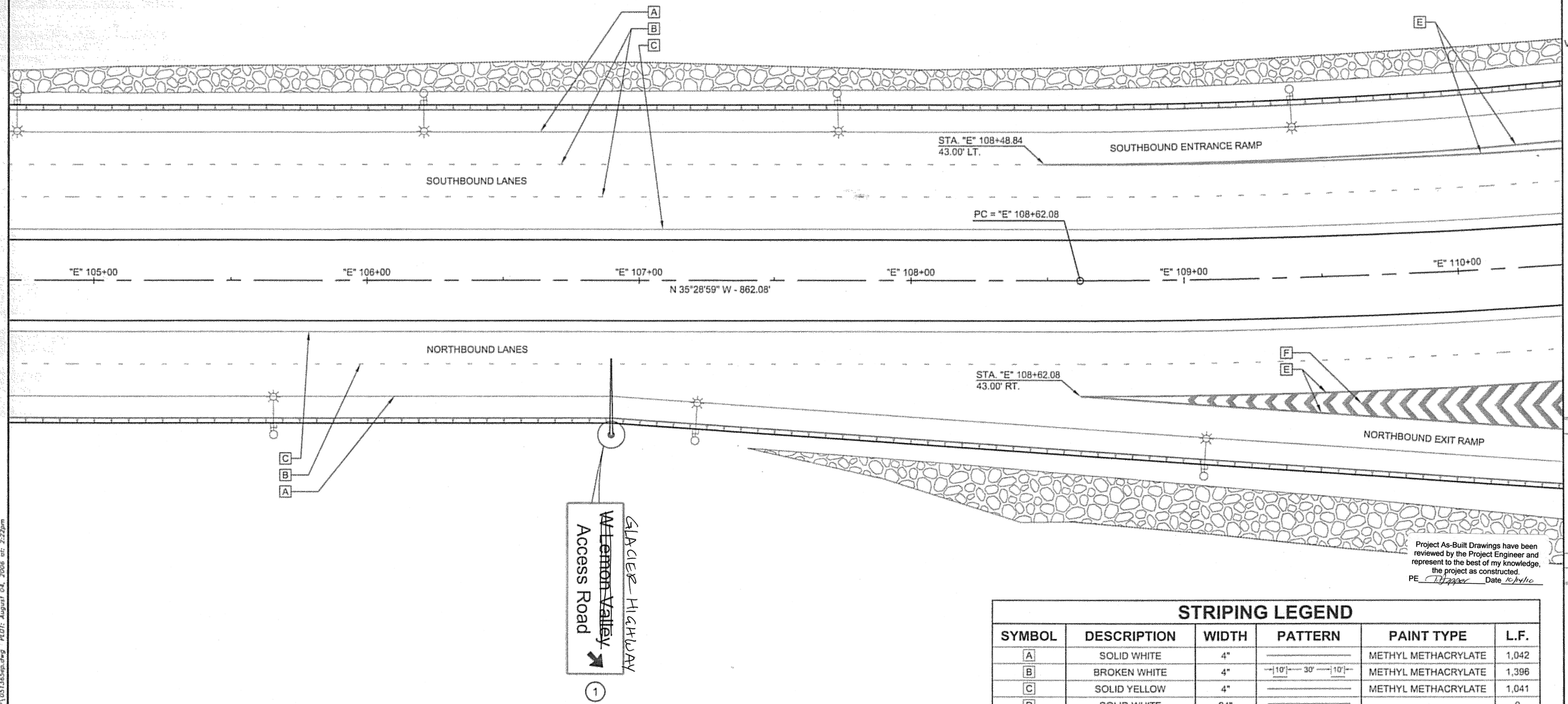
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Signing & Striping Details

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P14	269

A:\2005\051565\Design Drawings\P-Signing & Striping Details.DWG PLOT: August 04, 2006 at: 1:41pm



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/4/06

STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

STRIPING LEGEND

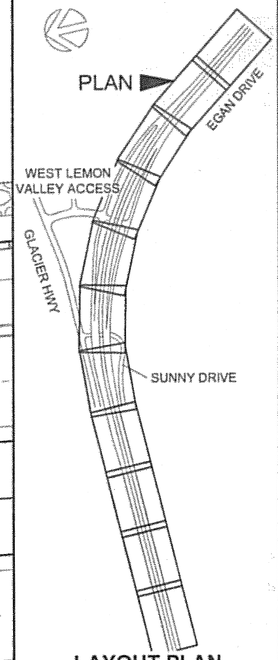
SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	1,042
B	BROKEN WHITE	4"	10' – 30' – 10'	METHYL METHACRYLATE	1,396
C	SOLID YELLOW	4"		METHYL METHACRYLATE	1,041
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		METHYL METHACRYLATE	635
F	SOLID WHITE	18"		METHYL METHACRYLATE	202
G	BI-DIRECTIONAL YELLOW	4"	10' – 30' – 10'	-	0
H	BROKEN YELLOW	4"	10' – 30' – 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 10-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

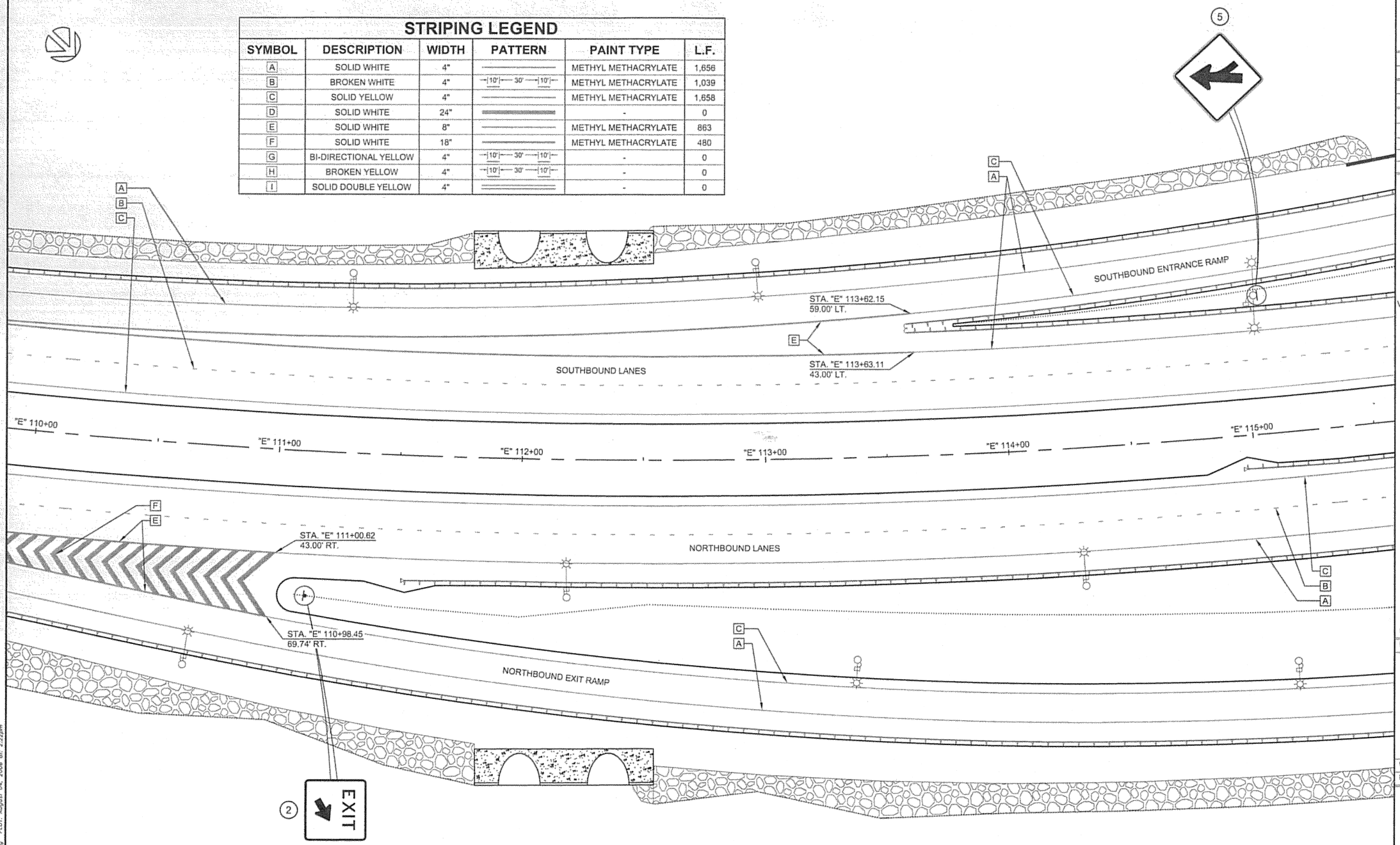
SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P2	269

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STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	1,656
B	BROKEN WHITE	4"	10' 30' 10'	METHYL METHACRYLATE	1,039
C	SOLID YELLOW	4"		METHYL METHACRYLATE	1,658
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		METHYL METHACRYLATE	863
F	SOLID WHITE	18"		METHYL METHACRYLATE	480
G	BI-DIRECTIONAL YELLOW	4"	10' 30' 10'	-	0
H	BROKEN YELLOW	4"	10' 30' 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0



STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

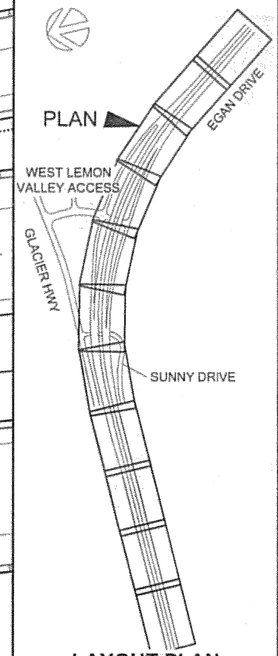
2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
P3	269

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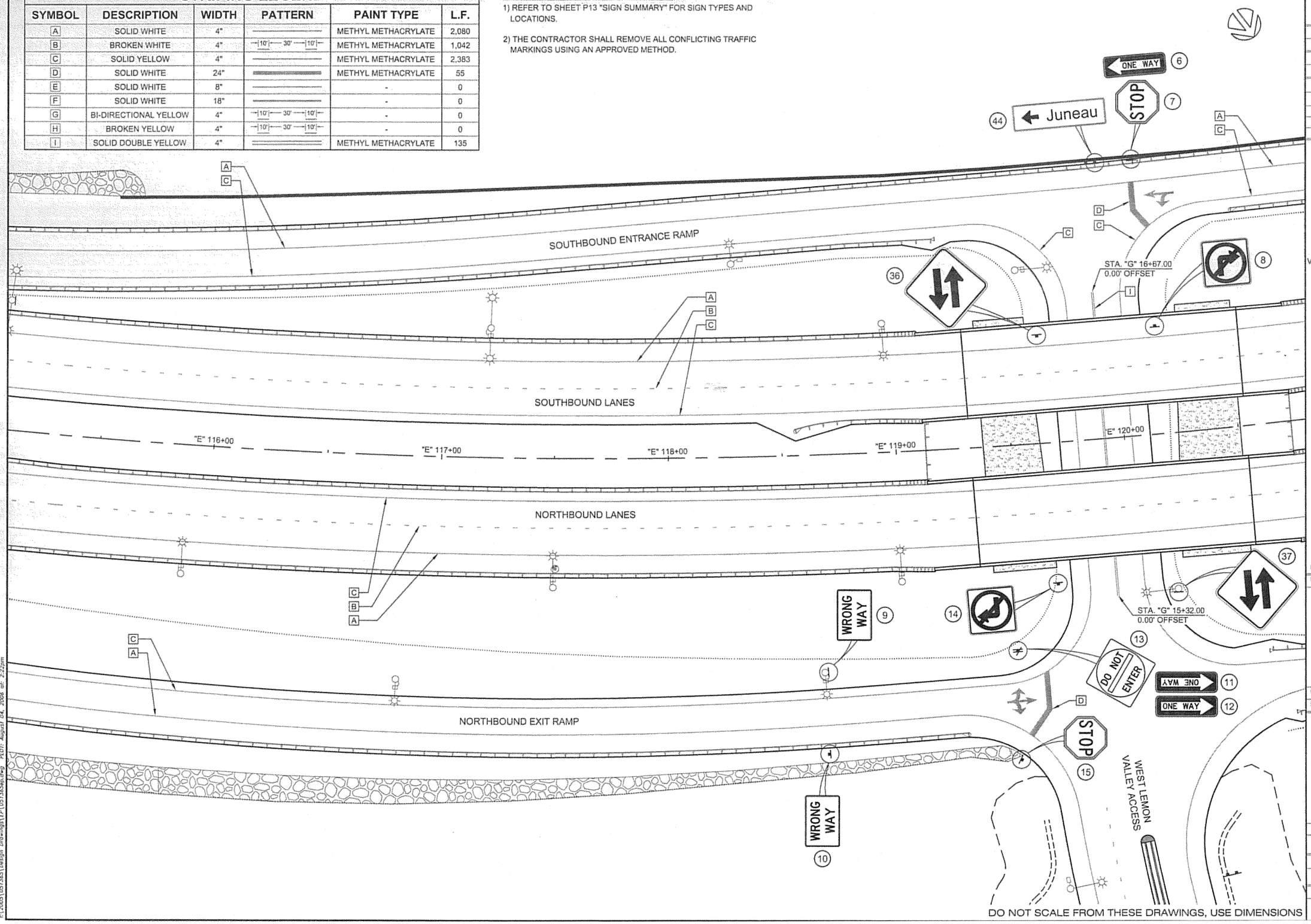
STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	2,080
B	BROKEN WHITE	4"	10' – 30' – 10'	METHYL METHACRYLATE	1,042
C	SOLID YELLOW	4"		METHYL METHACRYLATE	2,383
D	SOLID WHITE	24"		METHYL METHACRYLATE	55
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' – 30' – 10'	-	0
H	BROKEN YELLOW	4"	10' – 30' – 10'	-	0
I	SOLID DOUBLE YELLOW	4"		METHYL METHACRYLATE	135

STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

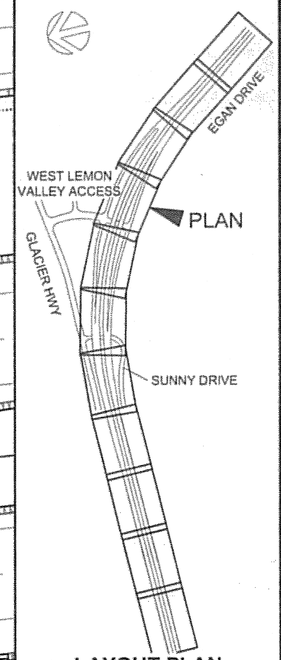


ADDENDUM NUMBER

ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER

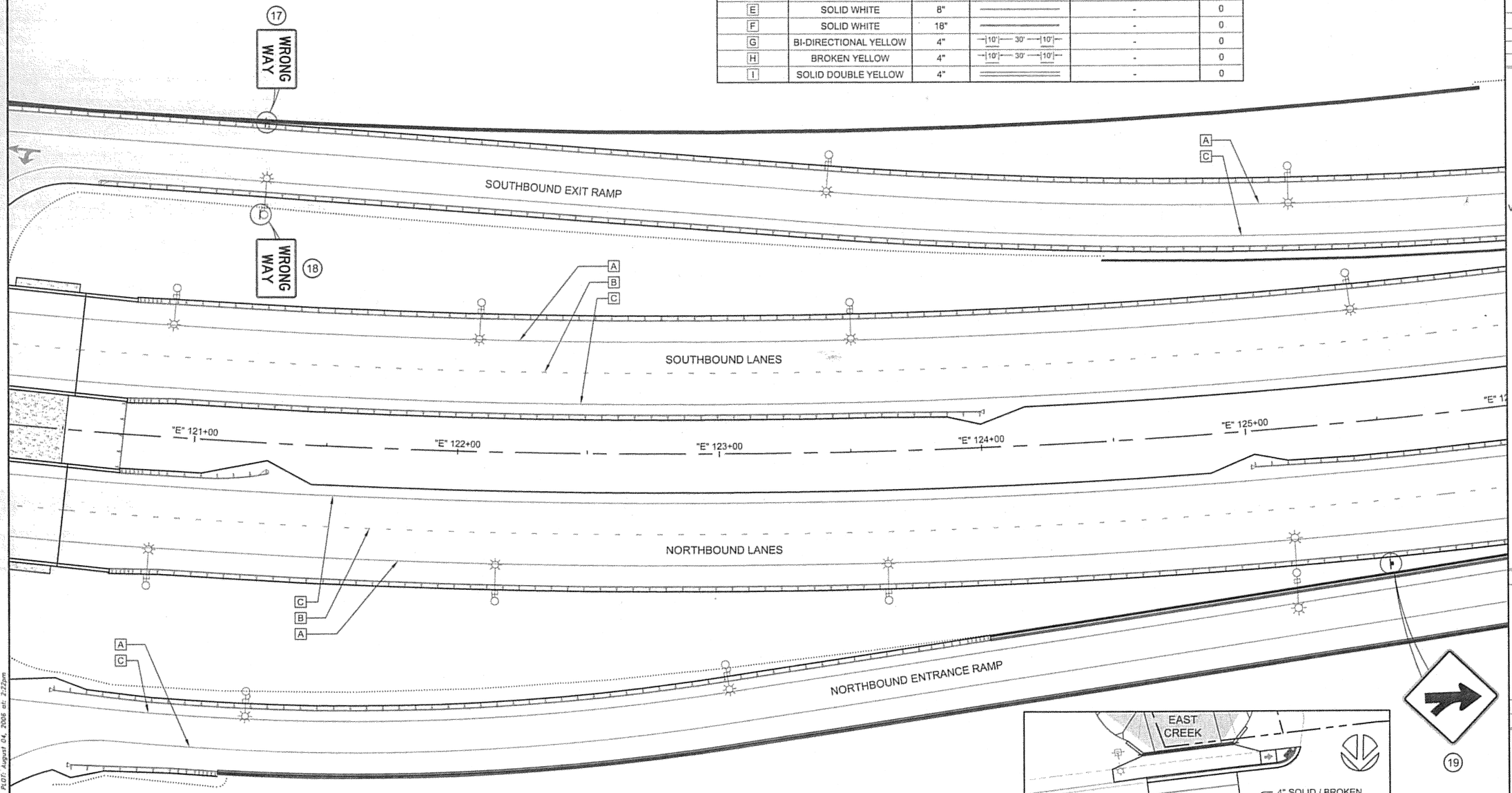
STP-093-2(31)~71431

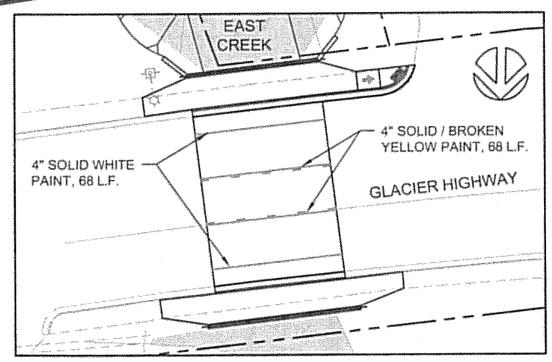
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P4	269

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STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	2,085
B	BROKEN WHITE	4"	10' 30' 10'	METHYL METHACRYLATE	1,040
C	SOLID YELLOW	4"		METHYL METHACRYLATE	2,085
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' 30' 10'	-	0
H	BROKEN YELLOW	4"	10' 30' 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0



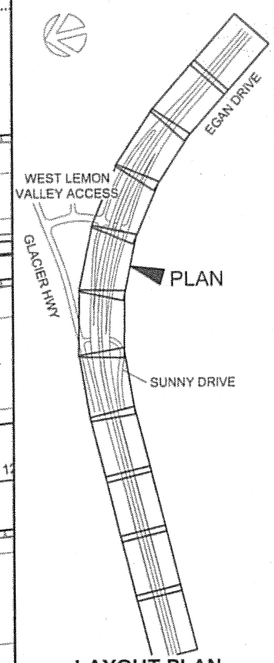


STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS



LAYOUT PLAN KEY MAP

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE #152 REGISTERED PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER

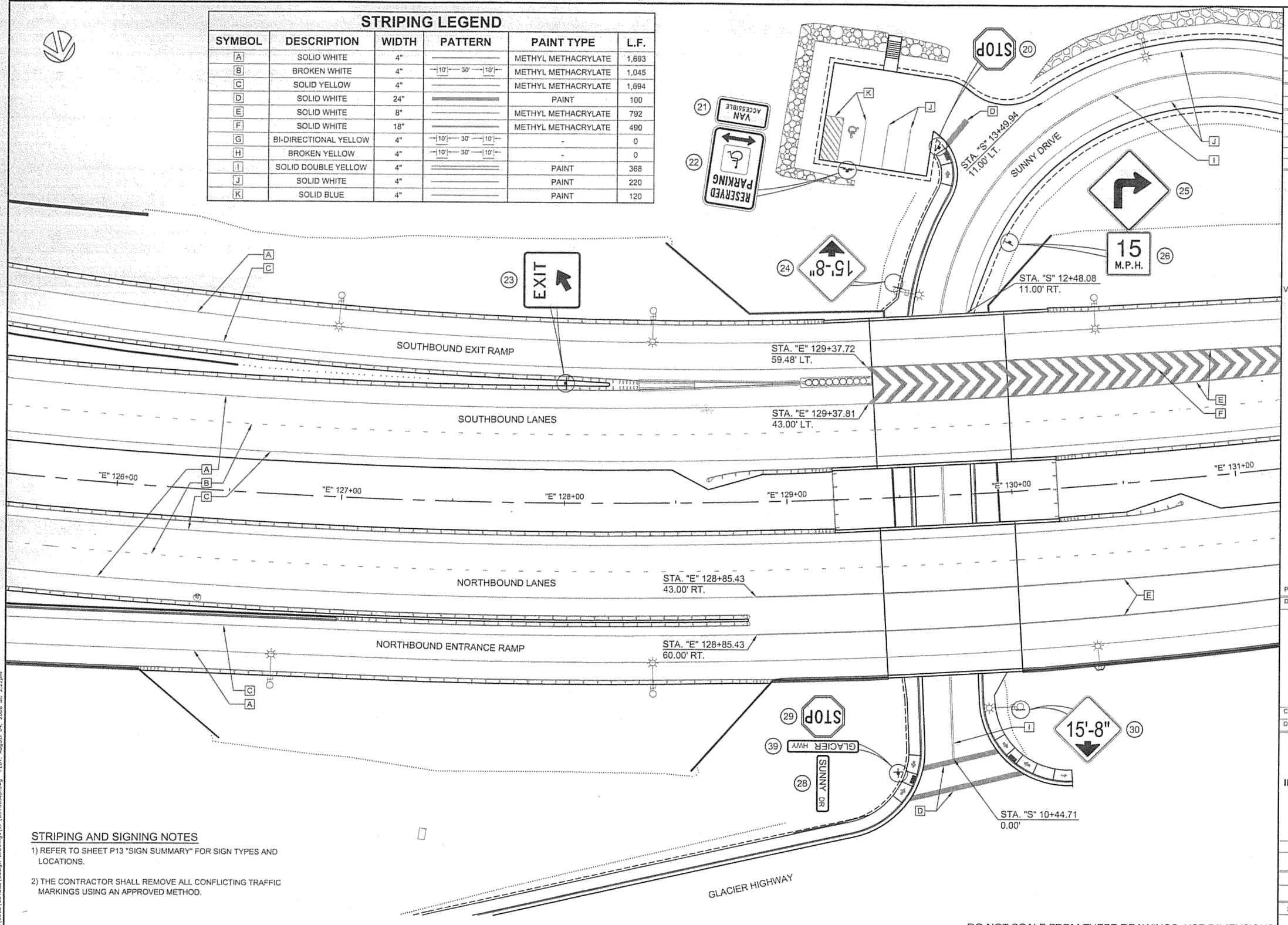
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P5	269

E:\2005\031563\Design Drawings\EFI\031563sn.dwg PLOT: August 04, 2006 at: 2:22pm

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	1,693
B	BROKEN WHITE	4"	10' 30' 10'	METHYL METHACRYLATE	1,045
C	SOLID YELLOW	4"		METHYL METHACRYLATE	1,694
D	SOLID WHITE	24"		PAINT	100
E	SOLID WHITE	8"		METHYL METHACRYLATE	792
F	SOLID WHITE	18"		METHYL METHACRYLATE	490
G	BI-DIRECTIONAL YELLOW	4"	10' 30' 10'	-	0
H	BROKEN YELLOW	4"	10' 30' 10'	-	0
I	SOLID DOUBLE YELLOW	4"		PAINT	368
J	SOLID WHITE	4"		PAINT	220
K	SOLID BLUE	4"		PAINT	120

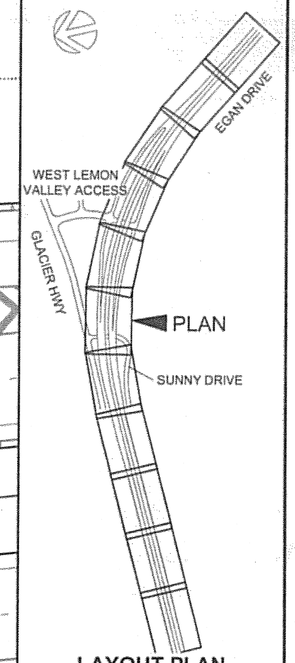


STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS



LAYOUT PLAN KEY MAP

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P6	269

F:\2005\05136S\Design Drawings\EP\05136sp.dwg PLOT: August 04, 2006 at: 2:22pm

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	1,800
B	BROKEN WHITE	4"	10' 30' 10'	METHYL METHACRYLATE	1,129
C	SOLID YELLOW	4"		METHYL METHACRYLATE	1,041
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		METHYL METHACRYLATE	1,234
F	SOLID WHITE	18"		METHYL METHACRYLATE	267
G	BI-DIRECTIONAL YELLOW	4"	10' 30' 10'	-	0
H	BROKEN YELLOW	4"	10' 30' 10'	PAINT	40
I	SOLID DOUBLE YELLOW	4"		PAINT	478
J	SOLID WHITE	4"		PAINT	300

32 — 15 M.P.H.

33

34 — NO OUTLET

31 — SPEED LIMIT 35

SUNNY DRIVE

M.T.E.

Glacier Highway / West Lemon Valley Access Road

SOUTHBOUND EXIT RAMP

STA. "E" 132+75.64
43.00' LT.

SOUTHBOUND LANES

PT = "E" 135+27.43

S 88°59'05" W - 2,179.39'

"E" 131+00 | "E" 132+00 | "E" 133+00 | "E" 134+00 | "E" 135+00 | "E" 136+00

NORTHBOUND LANES

STA. "E" 135+27.43
43.00' RT.

NORTHBOUND ENTRANCE RAMP

35

M.T.E. STRIPING, TYP.

GLACIER HIGHWAY

STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

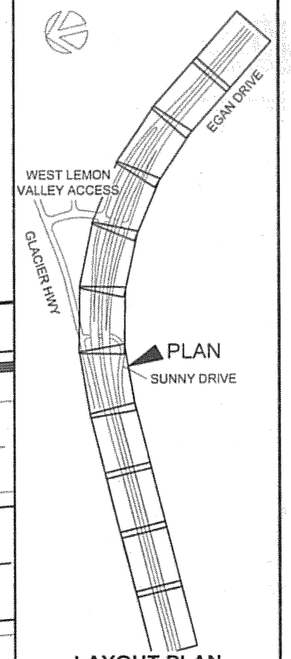
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER

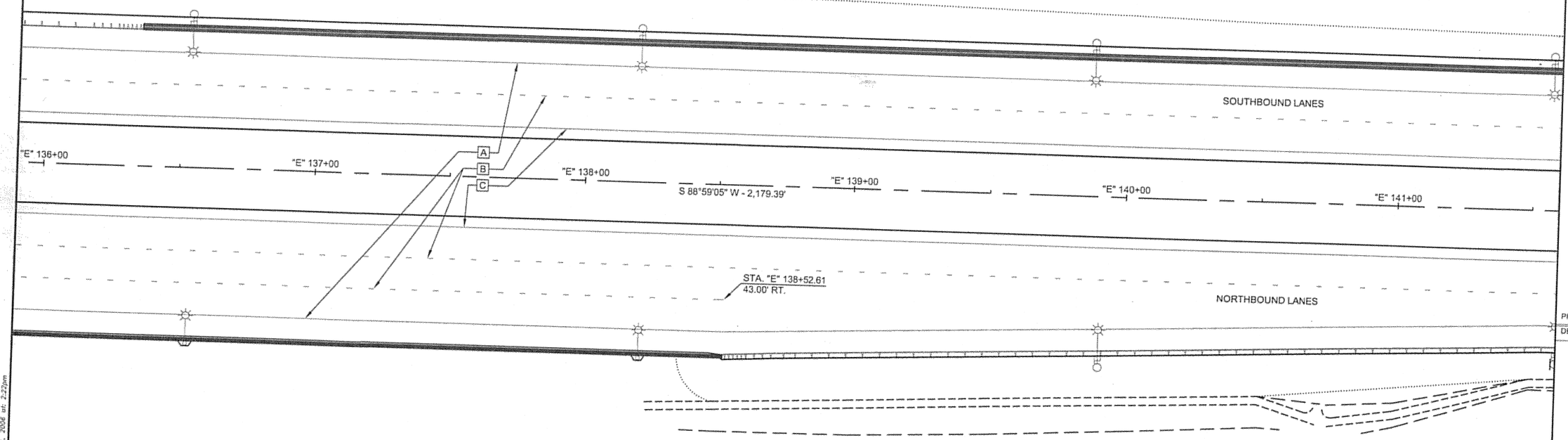
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P7	269

A:\2005\051363\Design Drawings\EPI\051363sgn.dwg PLOT: August 04, 2006 at: 2:32pm

STRIPING LEGEND

SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	1,040
B	BROKEN WHITE	4"	10' 30' 10'	METHYL METHACRYLATE	1,275
C	SOLID YELLOW	4"		METHYL METHACRYLATE	1,036
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' 30' 10'	-	0
H	BROKEN YELLOW	4"	10' 30' 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0



STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

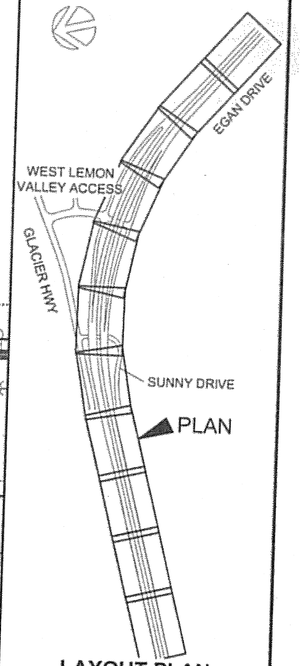
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

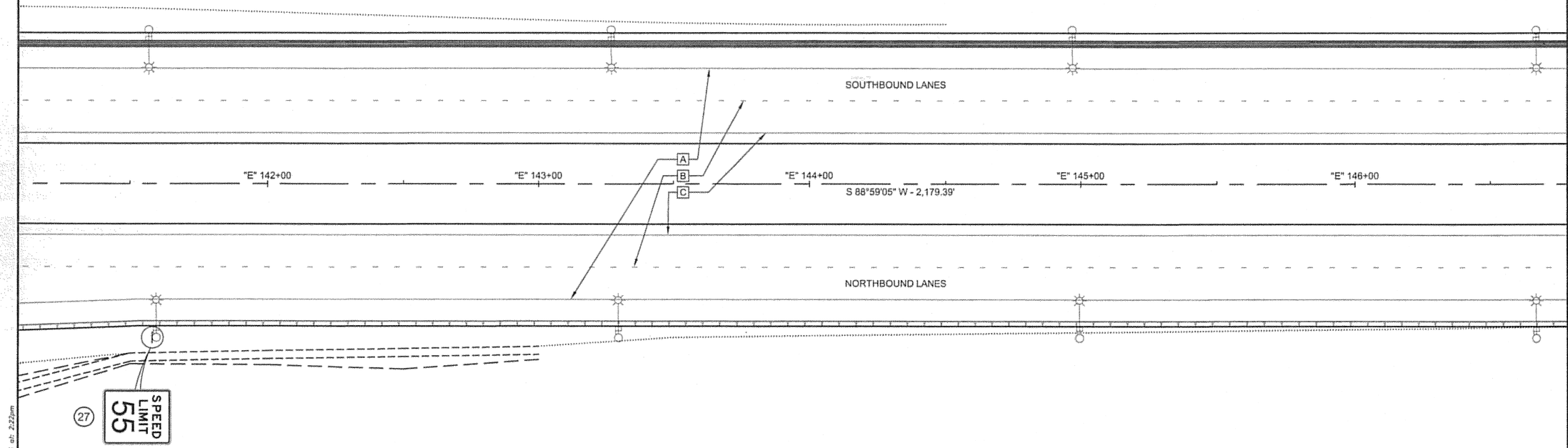
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
P8	**269**

Plotted By: Pusich, Joseph M. 11:07 August 04, 2006 on: 2:22pm



STRIPING AND SIGNING NOTES

1) REFER TO SHEET P13 "SIGN SUMMARY" FOR SIGN TYPES AND LOCATIONS.

2) THE CONTRACTOR SHALL REMOVE ALL CONFLICTING TRAFFIC MARKINGS USING AN APPROVED METHOD.

STRIPING LEGEND

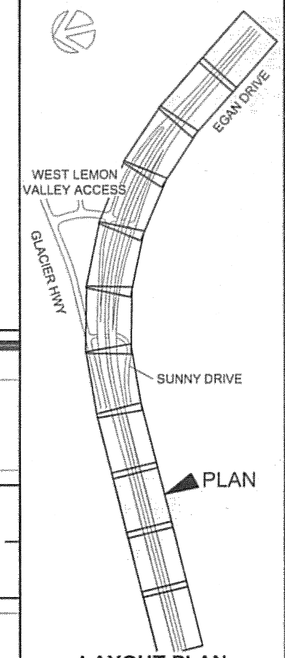
SYMBOL	DESCRIPTION	WIDTH	PATTERN	PAINT TYPE	L.F.
A	SOLID WHITE	4"		METHYL METHACRYLATE	1,040
B	BROKEN WHITE	4"	10' – 30' – 10'	METHYL METHACRYLATE	1,040
C	SOLID YELLOW	4"		METHYL METHACRYLATE	1,040
D	SOLID WHITE	24"		-	0
E	SOLID WHITE	8"		-	0
F	SOLID WHITE	18"		-	0
G	BI-DIRECTIONAL YELLOW	4"	10' – 30' – 10'	-	0
H	BROKEN YELLOW	4"	10' – 30' – 10'	-	0
I	SOLID DOUBLE YELLOW	4"		-	0

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

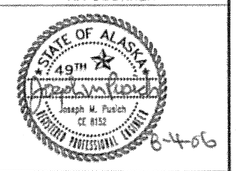
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN



CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

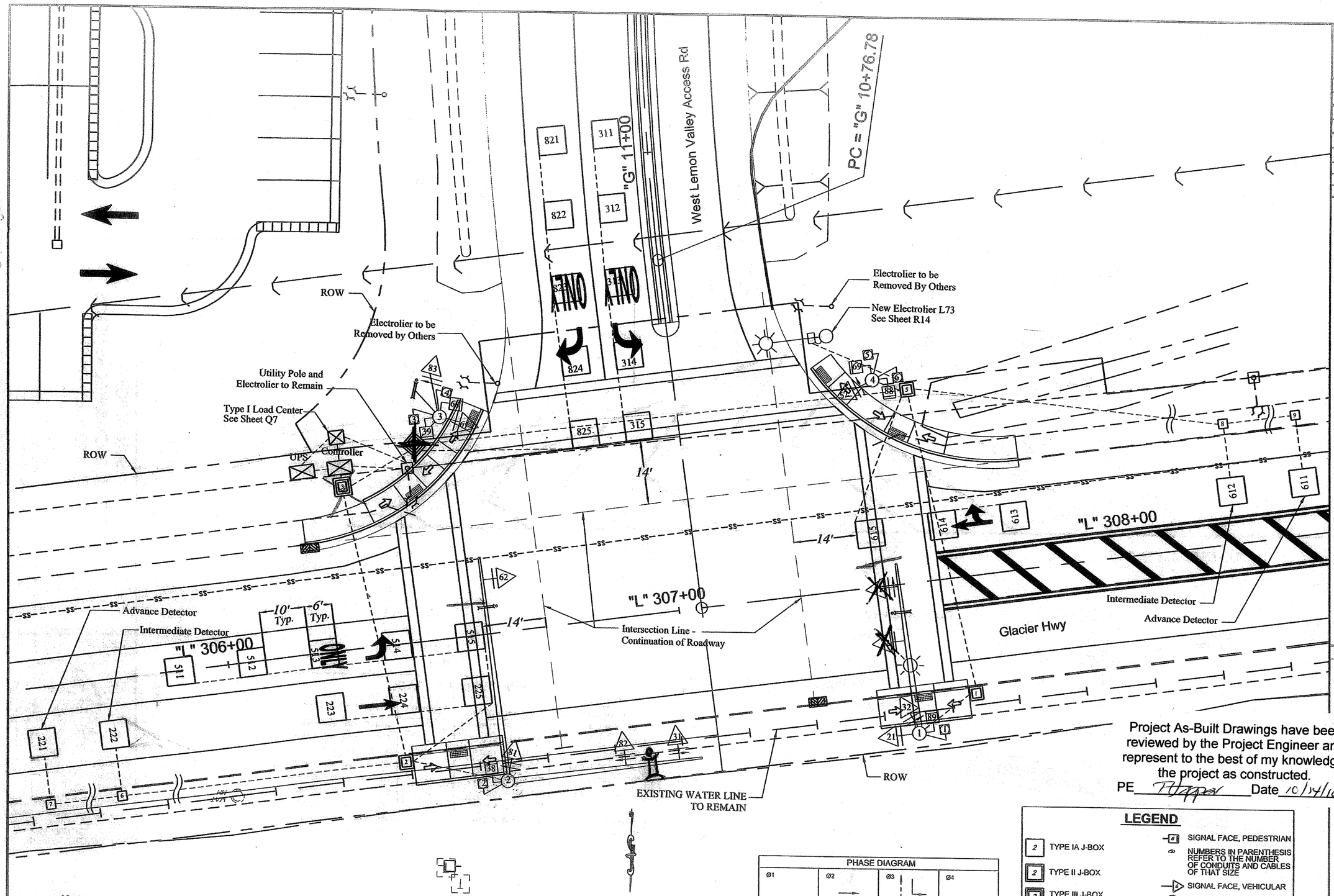
SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
P9	269

A:\2005\051365\Design Drawings\PS\051365sb.dwg PLOT: August 04, 2006 at: 2:22pm



Notes:
Place near edge of Advance Detectors 250' in advance of Intersection Line
Place near edge of Intermediate Detector 612 180' in advance of Intersection Line
Place near edge of Intermediate Detectors 222 190' in advance of Intersection Line
Remove Pedestrian Island 150' West of Intersection
Striped Island to Extend to Limits of Existing Pedestrian Island.
See Sheet Q2 for details

PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
Ø5	Ø6	Ø7	Ø8

Vehicle Phase
Pedestrian Phase

LEGEND

- TYPE IA J-BOX
- TYPE II J-BOX
- TYPE III J-BOX
- DETECTOR, PUSH BUTTON DIRECTION
- LOOP DETECTOR
- SIGNAL FACE, PEDESTRIAN
- NUMBERS IN PARENTHESIS REFER TO THE NUMBER OF CONDUITS AND CABLES OF THAT SIZE
- SIGNAL FACE, VEHICULAR
- SIGNAL POLE
- LUMINAIRE
- OPTICOM DETECTOR

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/24/10

PATH
Q:\Jnu\71431\TR\Glacier Hwy - Lemon Acces Intersection d
Wed, 06/Sep/06 04:22PM djfagnant
PLOT
PSPACE (=1:F) OR MSPACE (=1:F)
TAB SCHEDULE

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

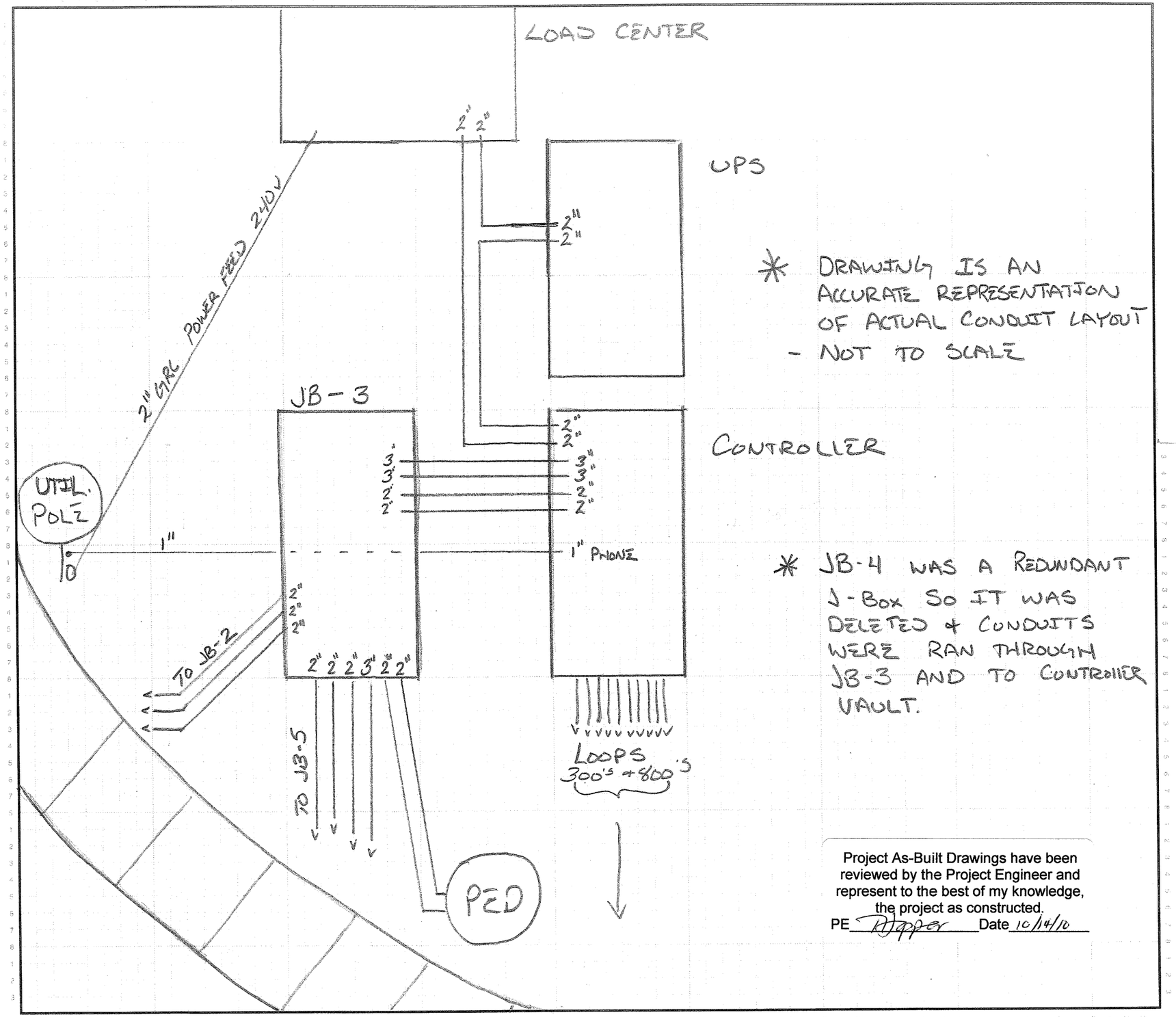
SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

SIGNAL PLAN VIEW

DESIGNED BY: D. FAGNANT
STATE OF ALASKA 49th Carolyn M. Morehouse CE-10691 REGISTERED PROFESSIONAL ENGINEER 9/7/06
D BY: C. MOREHOUSE
BY: D. FAGNANT
STATE OF ALASKA
TMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
SUNNY POINT INTERSECTION IMPROVEMENTS

SIGNAL PLAN VIEW

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q1A	269



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

PE RHopper Date 10/14/10

CHATHAM ELECTRIC
ELECTRICAL, POWER & TELEPHONE LINE CONSTRUCTION
CONTROLS & COMMUNICATIONS

Josh Anderson

P.O. Box 34977
Juneau, AK 99803
chatham@acsalaska.net

907-789-9899
Fax 907-789-6954
Cell 907-723-0662

JOB 7400 Sunny Point

SHEET NO. TRAFFIC INTERSEC. OF Q-2

CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____

PRODUCT 227-1 NEBBS Inc. Groton, Mass. 01471 To Order PHONE TOLL FREE 1-800-225-5080

LOW VOLTAGE SIGNAL CONDUCTOR

1C #14:	LOOP WIRES
2C #14:	LOOP LEAD-IN
2C:	PEDESTRIAN PUSH BUTTON
6PR:	MULTI-LOOP LEAD-IN
3C #20:	PROPRIETARY OPTICOM CABLE

120 VOLT SIGNAL CONDUCTOR

5C:	PEDESTRIAN AND STANDARD SIGNAL HEADS
7C:	5 SECTION SIGNAL HEADS

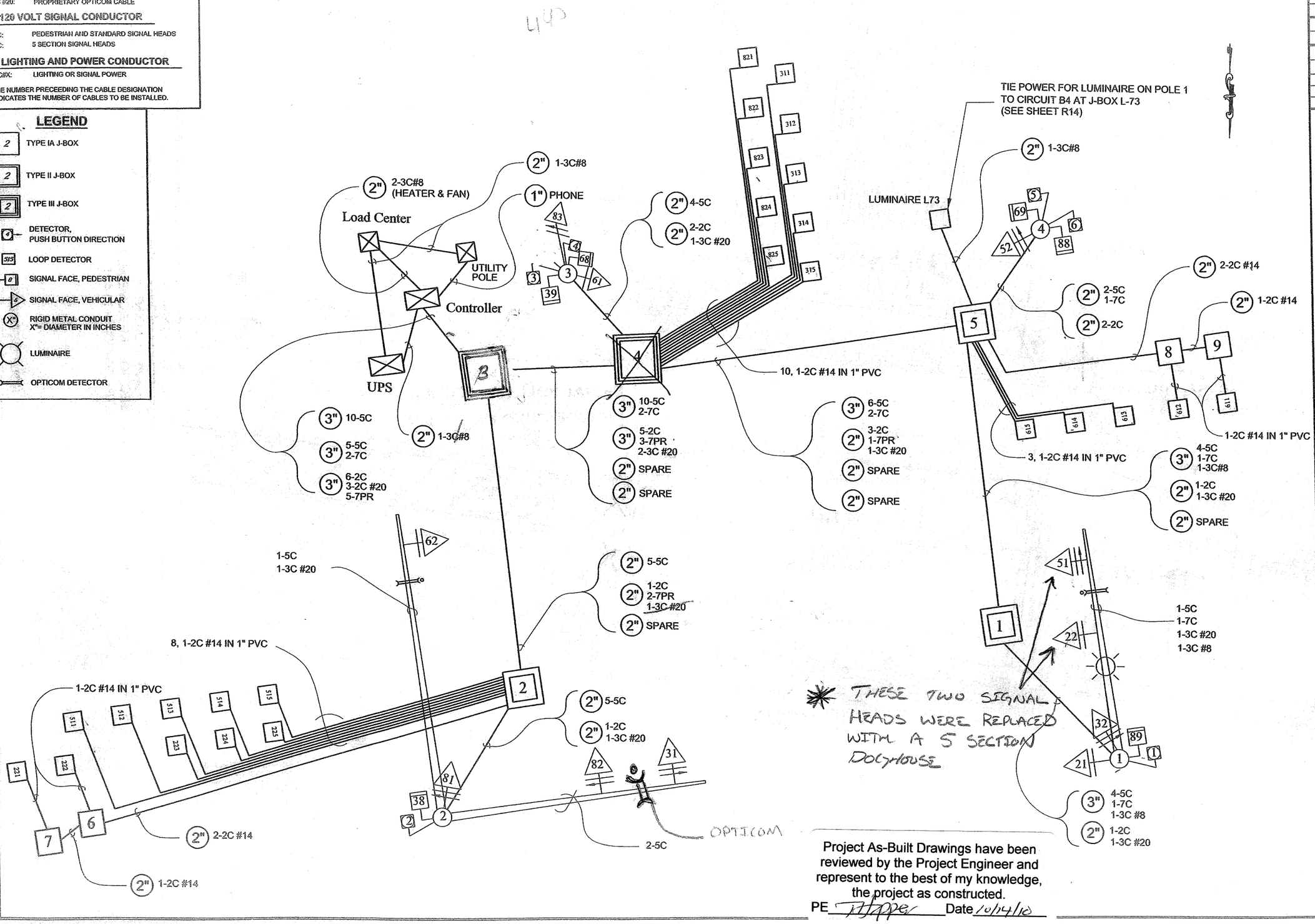
LIGHTING AND POWER CONDUCTOR

3C#X:	LIGHTING OR SIGNAL POWER

THE NUMBER PRECEEDING THE CABLE DESIGNATION INDICATES THE NUMBER OF CABLES TO BE INSTALLED.

LEGEND

- TYPE IA J-BOX
- TYPE II J-BOX
- TYPE III J-BOX
- DETECTOR, PUSH BUTTON DIRECTION
- LOOP DETECTOR
- SIGNAL FACE, PEDESTRIAN
- SIGNAL FACE, VEHICULAR
- RIGID METAL CONDUIT X"= DIAMETER IN INCHES
- LUMINAIRE
- OPTICOM DETECTOR



* THESE TWO SIGNAL HEADS WERE REPLACED WITH A 5 SECTION DOGHOUSE

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

PE _____ Date 10/14/10

PATH: Q:\Jnu\71431\TR\Glacier Hwy - Lemon Acces wiring.dwg
Wed, 06/Sep/06 04:23PM dfagnant
PLOT
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB SCHEDULE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

WIRING DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA — 49th — Carolyn H. Morehouse — CE-10691 — REGISTERED PROFESSIONAL ENGINEER — 9/1/06

CHECKED BY: C. MOREHOUSE

DRAWN BY: D. FAGNANT

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

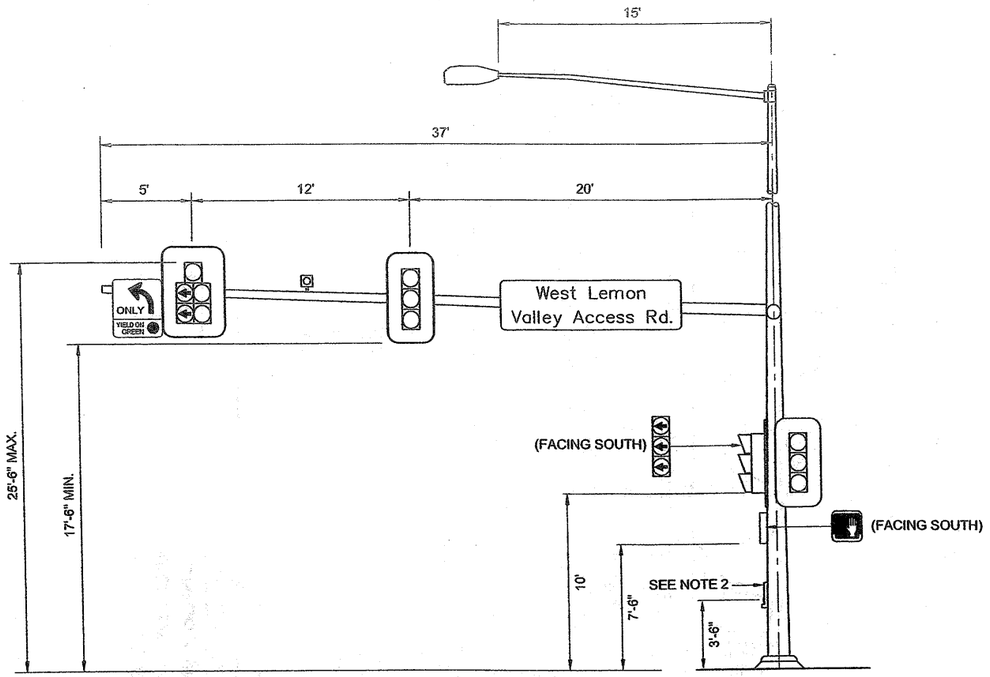
SUNNY POINT INTERSECTION IMPROVEMENTS

WIRING DETAILS

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

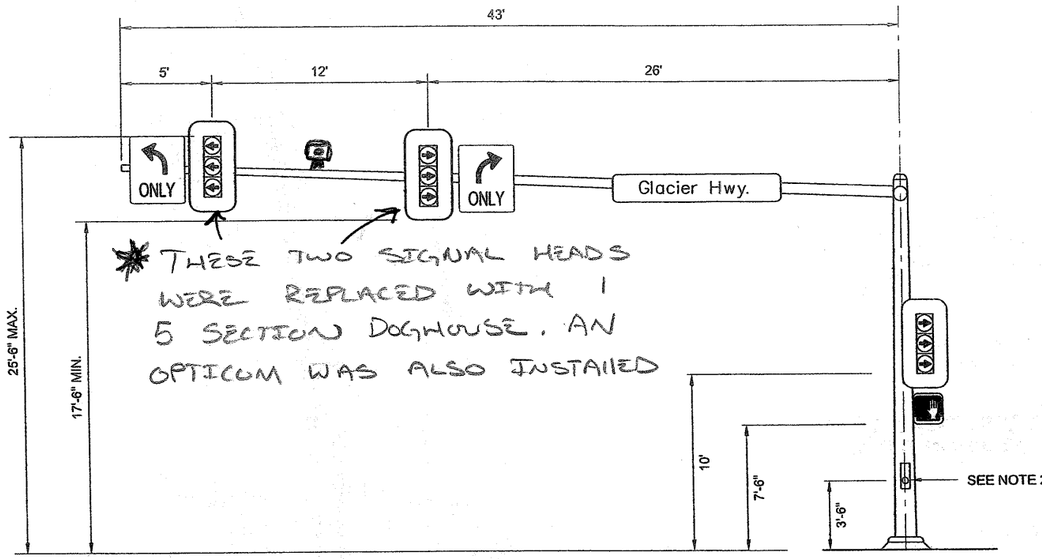
STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
Q2 A	269



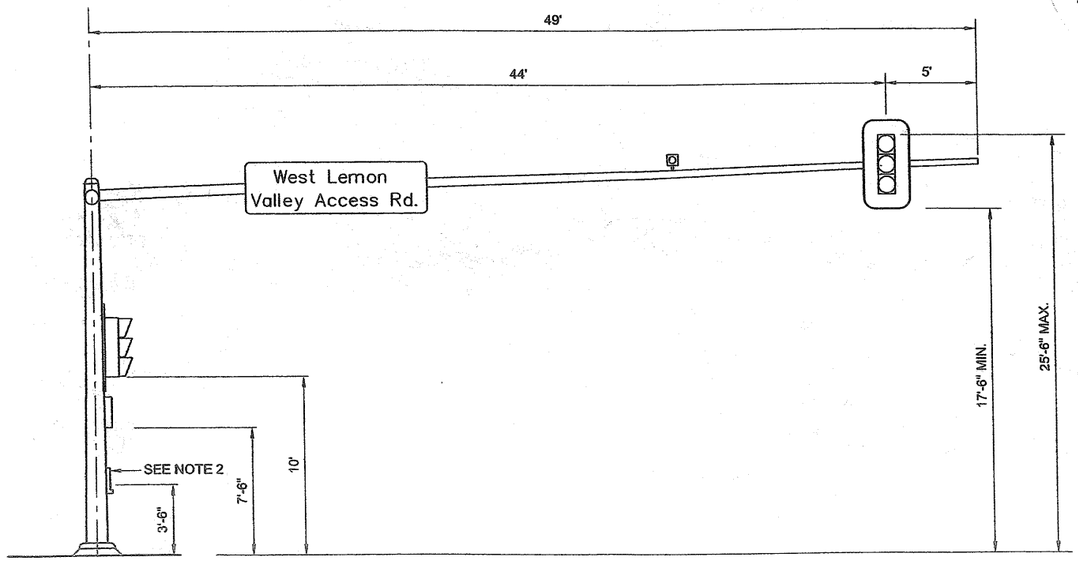
SIGNAL POLE NO. 1 DETAIL

(WESTBOUND MASTARM)



SIGNAL POLE NO. 2 DETAIL

(NORTHBOUND MASTARM)

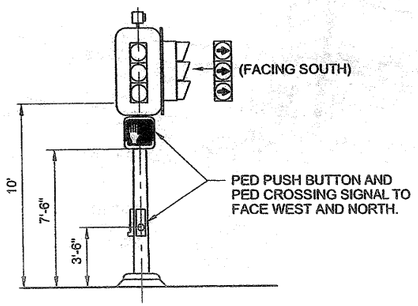


SIGNAL POLE NO. 2 DETAIL

(EASTBOUND MASTARM)

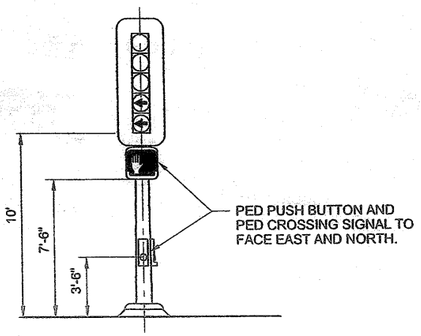
NOTES:

1. SIGNAL POLES, MAST ARMS (INCLUDING FUTURE HEADS) AND LUMINAIRES SHALL BE DESIGNED FOR 100 MPH WIND SPEED AND SHOP DRAWINGS SHALL BE STAMPED BY A REGISTERED ENGINEER.
2. THE 3'-6" DIMENSION IS TO THE CENTER OF THE BUTTON.
3. FOR FOUNDATION DETAILS, SEE STANDARD DRAWING T-52.15 AND T-31.00.
4. CENTER STREET NAME SIGNS OVER THE RESPECTIVE DIRECTION OF TRAFFIC PER THE ENGINEER.
5. PRIOR TO INSTALLING SIGNAL BASES AND CONDUITS, THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING AND NEW UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS AND TELEPHONE AND ELECTRICAL CABLES. ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS.



SIGNAL POLE NO. 3 DETAIL

(EASTBOUND)



SIGNAL POLE NO. 4 DETAIL

(WESTBOUND)

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

PE P Hopper Date 10/14/16

PATH: C:\Jnu\71431\TR\Signal Pole-Det.dwg
Wed, 06 Sep '06 04:24PM Jirogonzal
PLOT
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SCHEDULE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

POLE DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA 49th REGISTERED PROFESSIONAL ENGINEER Carolyn Morehouse CE-10691 9/7/06

CHECKED BY: C. MOREHOUSE

DRAWN BY: D. STEVENS

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

SUNNY POINT INTERSECTION IMPROVEMENTS

POLE DETAILS

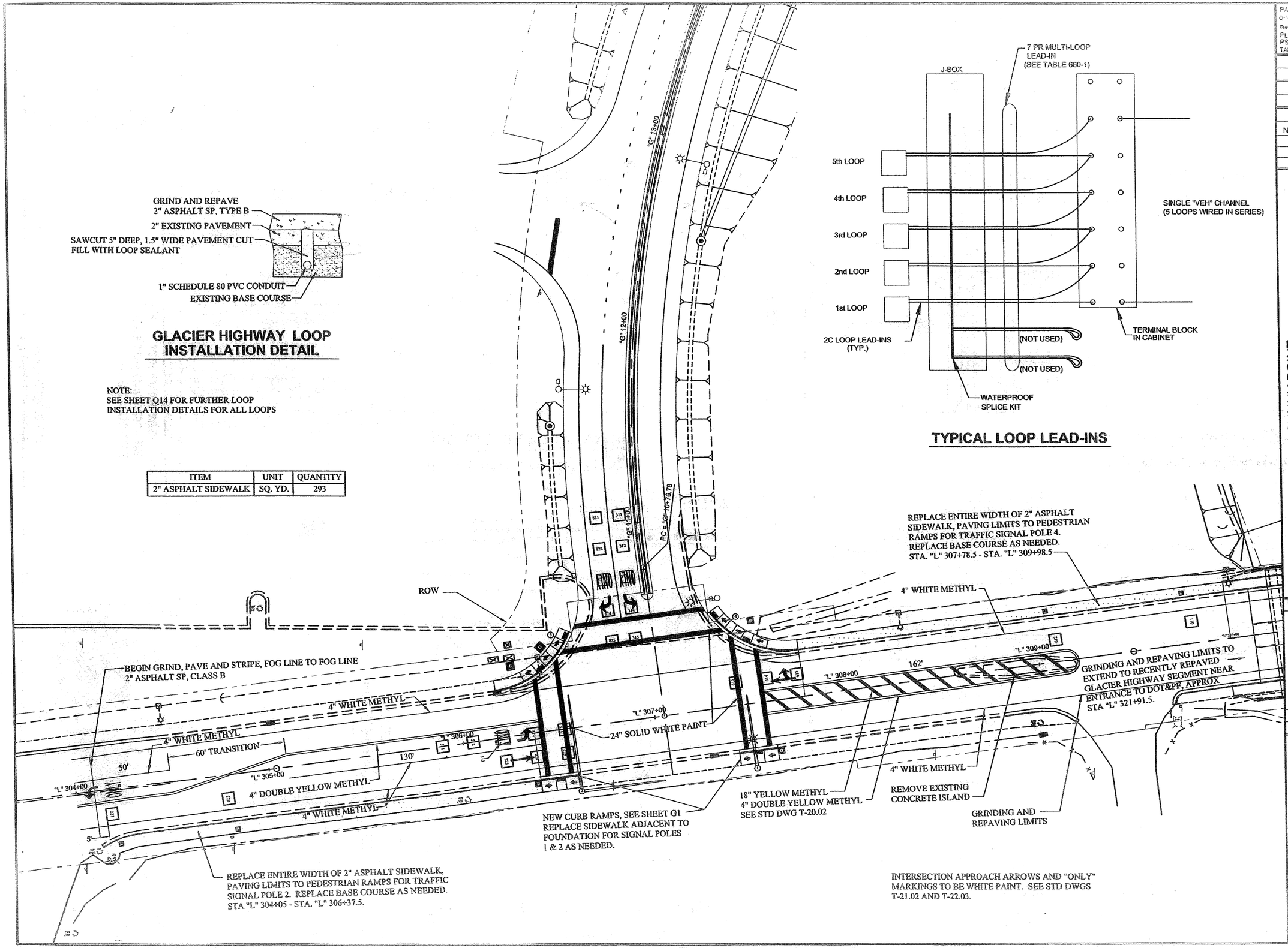
PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q3A	269

GLACIER HIGHWAY LOOP INSTALLATION DETAIL

NOTE:
SEE SHEET Q14 FOR FURTHER LOOP INSTALLATION DETAILS FOR ALL LOOPS

ITEM	UNIT	QUANTITY
2" ASPHALT SIDEWALK	SQ. YD.	293

TYPICAL LOOP LEAD-INS



PATH:
Q:\Jnu\71431_PE\Glacier Hwy - Lemon Acres Loop & Sig
Wed, 06/Sep/06 04:23PM dfagnant
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SCHEDULE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

SIGNAL PLAN VIEW

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
Carolyn M. Morehouse
CE-10691
REGISTERED PROFESSIONAL ENGINEER
9/7/06

CHECKED BY: C. MOREHOUSE
DRAWN BY: D. FAGNANT

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

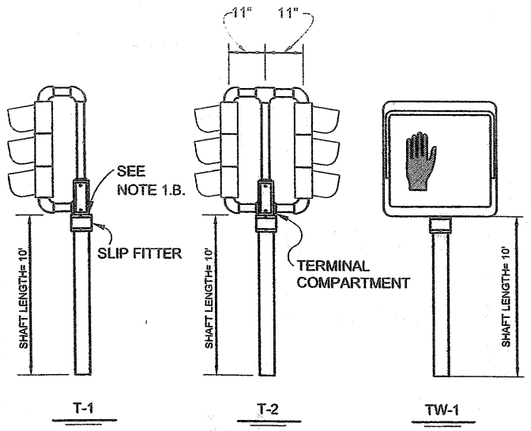
SUNNY POINT
INTERSECTION
IMPROVEMENTS

SIGNAL PLAN VIEW

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

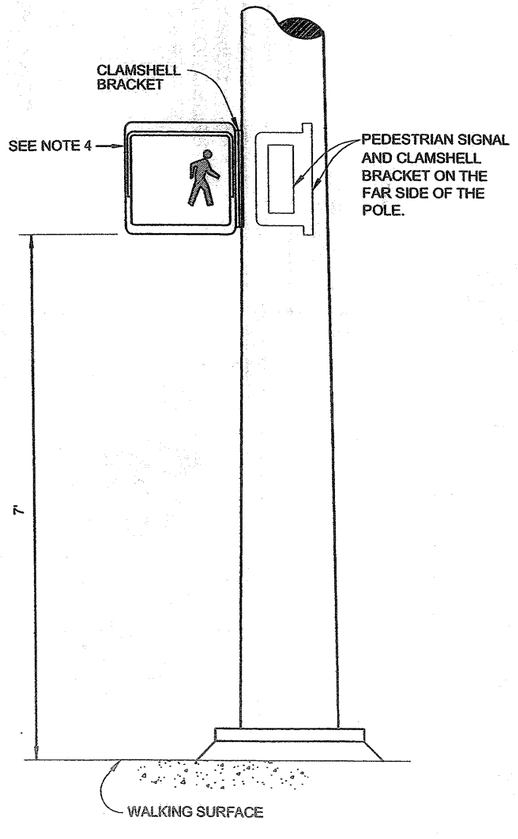
STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
Q4	269

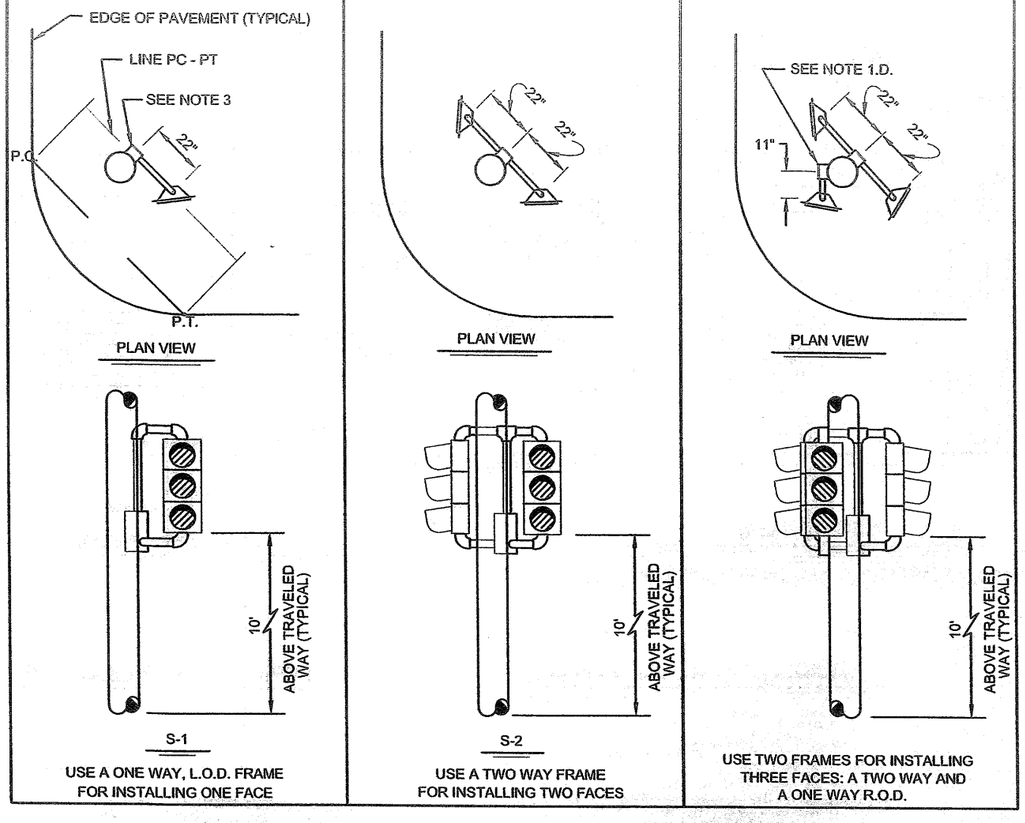


POST MOUNTED SIGNALS

(SHOWN WITHOUT BACKPLATE)

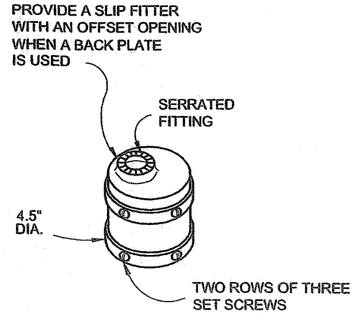


PEDESTRIAN HARDWARE



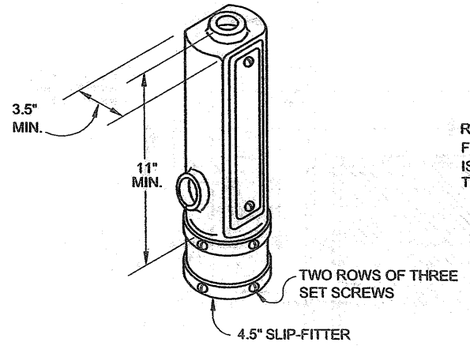
SIDE MOUNTED SIGNAL FRAMES WITH VEHICULAR SIGNALS

(SHOWN WITHOUT BACKPLATES)



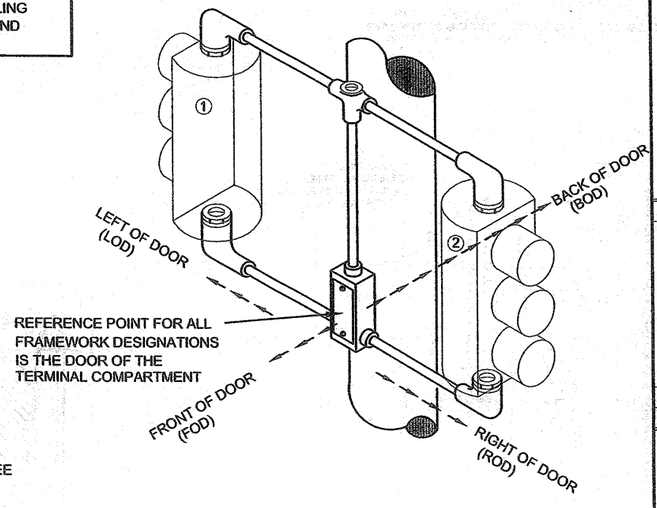
SLIP FITTER

(SEE NOTE 1.B.)



TERMINAL COMPARTMENT (WITH SLIP FITTER)

(SEE NOTES 1.C. AND 2)



FRAMEWORK DESCRIPTION

HEAD NO. ① OFFSET L.O.D.
HEAD NO. ② OFFSET R.O.D.

TRAFFIC SIGNAL HARDWARE NOTES:

1. INSTALL THE SIGNAL FACES SHOWN IN THE PLANS AS DETAILED ON THIS SHEET.
   A. USE ELEVATOR PLUMBIZERS TO INSTALL FACES ON MAST ARMS AND WHENEVER TWO INCH PIPE TENONS ARE SPECIFIED. INSTALL THE PLUMBIZER BETWEEN THE RED AND YELLOW SIGNAL INDICATIONS.
   B. USE SLIP FITTERS TO INSTALL PEDESTRIAN SIGNALS ON THE TOP OF POSTS.
   C. USE SIGNAL FRAMES TO INSTALL SIGNAL FACES ON THE SIDES OF POLES AND WHEN SIGNAL FACES ARE POST TOP MOUNTED.
   D. USE A SECOND SIGNAL FRAME TO INSTALL THE THIRD FACE WHEN THREE SIDE MOUNTED SIGNAL FACES ARE SHOWN.
   E. USE CLAMSHELL BRACKETS TO INSTALL ALL PEDESTRIAN SIGNALS, EXCEPT WHEN ONE IS POST TOP MOUNTED.
2. FURNISH ALL SIGNAL FRAMES WITH TERMINAL COMPARTMENTS.
3. WHEN INSTALLING TERMINAL COMPARTMENTS, SANDWICH THE POLE BETWEEN THE TERMINAL COMPARTMENT AND THE EDGE OF PAVEMENT. POSITION THE TERMINAL COMPARTMENT WHERE A LINE PARALLEL TO THE LINE BETWEEN THE P.C. AND P.T. OF THE RADIUS RETURN IS TANGENT TO THE POLE.
4. INSTALL PEDESTRIAN SIGNALS SO THE POLES TO WHICH THEY ARE ATTACHED ARE BETWEEN THE PEDESTRIAN SIGNAL AND THE THROUGH TRAFFIC LANE THAT PARALLELS THE CROSSWALK.
5. FIELD DRILL THE HOLES NEEDED FOR ATTACHING ALL SIGNAL HARDWARE. USE HOLE SAWS WHEN DRILL BITS ARE NOT AVAILABLE. TREAT THE BARE STEEL SURFACES IN ACCORDANCE WITH SECTION 660-2.14, GALVANIZING, OF THE STANDARD SPECIFICATIONS.
6. PROVIDE SOLID BACKPLATES SIZED FOR THE NUMBER OF SIGNAL SECTIONS AND MOUNTING TYPE, SO THAT NO LIGHT IS VISIBLE BETWEEN THE BACK-PLATE AND THE SIGNAL FACE.
7. ATTACH ALL BACKPLATES USING STAINLESS STEEL SCREWS WITH A STAINLESS FLAT WASHER INSTALLED UNDER EACH HEAD. PROVIDE SCREWS THAT ARE SELF TAPPING AND SELF LOCKING TYPE. COAT THE THREADS WITH AN ANTI-SEIZING COMPOUND BEFORE INSTALLING THEM.
8. BEFORE INSTALLING THE MACHINE SCREWS THAT SECURE THE VISORS, COAT THE THREADS WITH AN ANTI-SEIZING COMPOUND.

PATH:
Q:\Jnu\71431\IR\Signal Pole-Det.dwg
Wed, 06/Sep/06 04:25PM dfagnant
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SCHEDULE

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)--71431

TRAFFIC SIGNAL HARDWARE DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA — 9911 — Carolyn A. Morehouse — CE-10691 — REGISTERED PROFESSIONAL ENGINEER — 9/7/06

CHECKED BY: C. MOREHOUSE

DRAWN BY: D. STEVENS

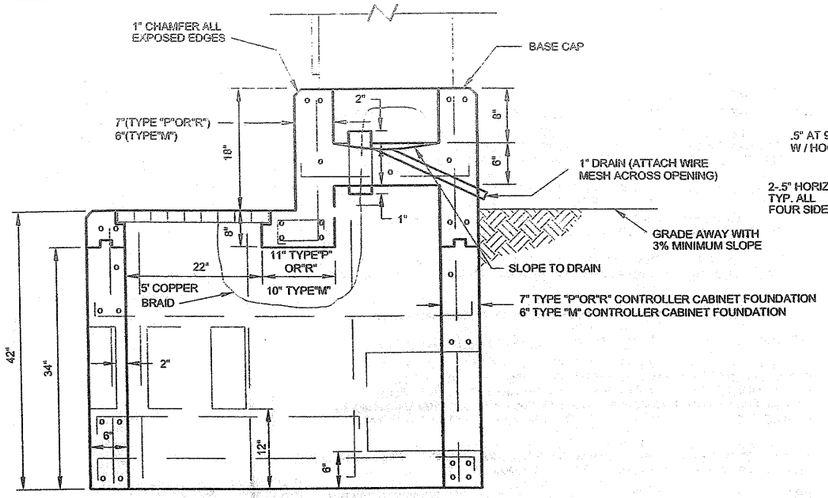
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

SUNNY POINT INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL HARDWARE DETAILS

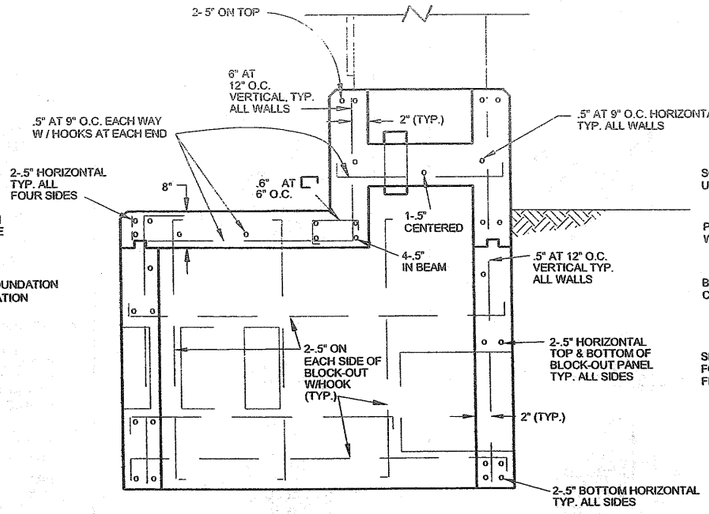
PROJECT DESIGNATION NUMBER
STP-093-2(31)--71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q5A	269



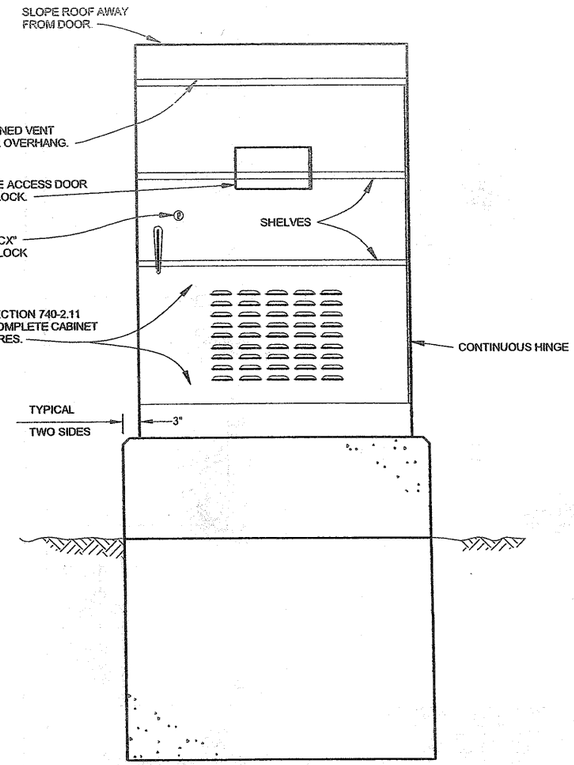
SECTION A-A

NOTE: SEE SECTION "B-B" FOR REBAR DETAILS.



SECTION B-B

NOTE: SEE SECTION "A-A" FOR DIMENSIONAL DETAILS & NOTES.



CONTROLLER CABINET

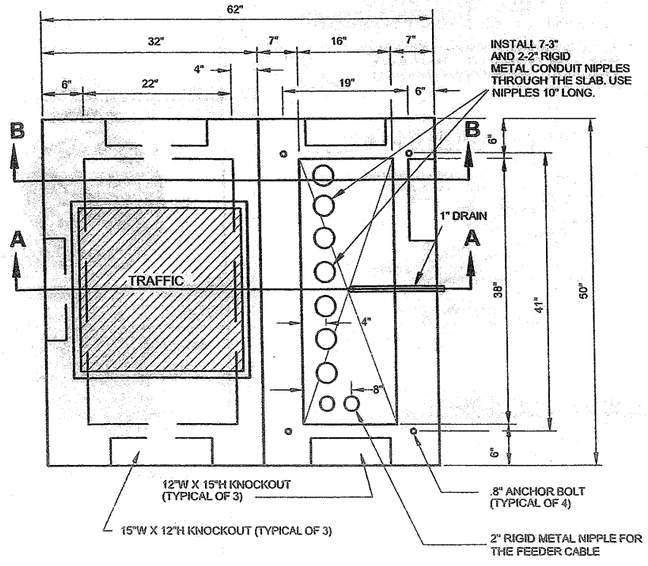
ELEVATION

GENERAL NOTES:

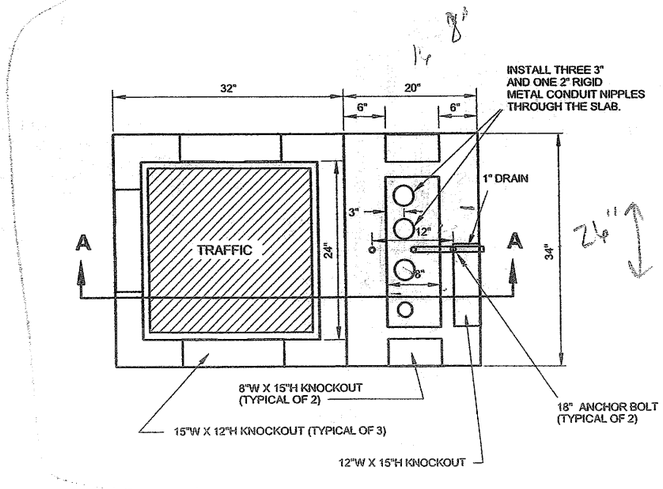
1. ANCHOR BOLTS SHALL NOT PROTRUDE MORE THAN 1.5" ABOVE THE TOP OF THE FOUNDATION. ANCHOR BOLT DIMENSIONS SHALL BE AS SPECIFIED BY THE CABINET MANUFACTURER.
2. UNUSED CONDUIT STUBS SHALL BE SEALED WITH WATERTIGHT CAPS. STUBS CARRYING CONDUCTORS SHALL BE SEALED WITH WATERTIGHT SEALING BUSHINGS DESIGNED TO SEAL AROUND CONDUCTORS AND AGAINST THE CONDUIT WALLS.
3. ROUTE THE 5' COPPER GROUNDING JUMPER THROUGH THE 2" PIPE NIPPLE, AND ATTACH IT TO THE GROUNDING BUSHING ON THE FEEDER CABLE CONDUIT.
4. STOP HORIZONTAL & VERTICAL STEEL AT THE BLOCK-OUT PANELS & THE JOINT USING 90 DEGREE HOOKS. USE 2 EXTRA 5" HORIZONTAL & VERTICAL BARS ALL SIDES AS SHOWN.

CONTROLLER CABINET NOTES:

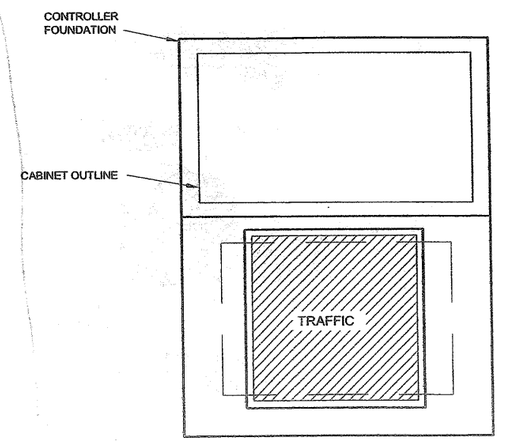
1. MATERIAL: ALUMINUM 0.080 T-5052 H-32
2. NO VENTILATING LOUVRES ARE REQUIRED.
3. INSTALL BEST LOCK.
4. INSTALL TWO 25 PR. TERMINAL BLOCKS (AMPHENAL - M 66 SYSTEMS), TELEPHONE 31 D TYPE SPLIT BLOCK (6 TERMINAL- 3 LEFT, 3 RIGHT). INSTALL ONE BLOCK ON RIGHT SIDE OF CABINET. INSTALL ONE BLOCK ON LEFT SIDE OF CABINET.
5. INSTALL THE INTERCONNECT CABLE TERMINATION CABINET WHEN CALLED FOR IN THE PLANS OR WHENEVER 3 OR MORE INTERCONNECT CABLES ARE TO BE TERMINATED.



TYPE "P" or "R" CONTROLLER CABINET FOUNDATION



TYPE "M" CONTROLLER CABINET FOUNDATION



PLAN VIEW

PATH: C:\Jnw\71431_TR\Signal Pole-Detailing
Wed, 06/Sep/06 04:25PM dfagnant
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: SCHEDULE

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SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

CONTROLLER CABINET FOUNDATIONS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA 4910 Carolyn A. Morehouse CE-10691 REGISTERED PROFESSIONAL ENGINEER 9/7/06

CHECKED BY: C. MOREHOUSE
DRAWN BY: D. STEVENS

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

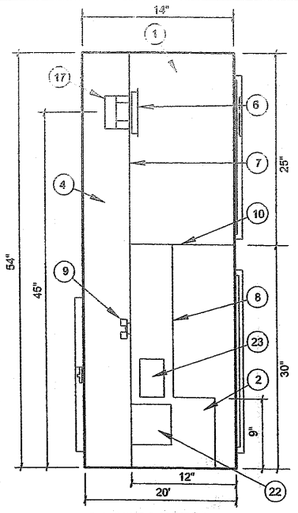
SUNNY POINT INTERSECTION IMPROVEMENTS

CONTROLLER CABINET FOUNDATIONS

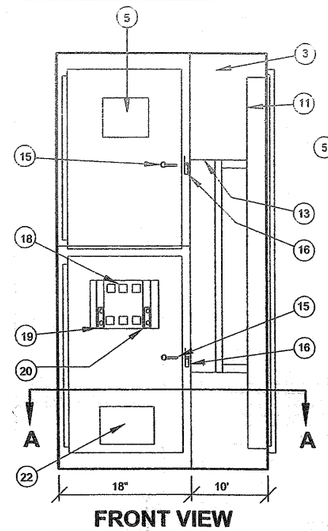
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

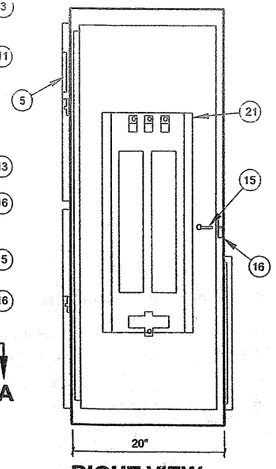
SHEET NUMBER	TOTAL SHEETS
Q6A	269



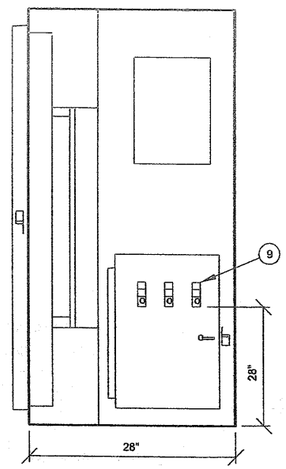
LEFT VIEW



FRONT VIEW



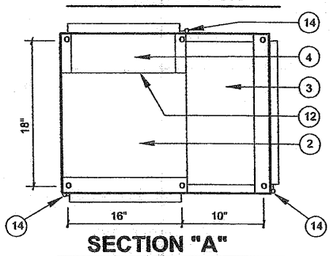
RIGHT VIEW



REAR VIEW

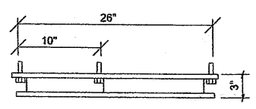
EQUIPMENT LEGEND

1. METER SECTION
2. LOAD SECTION (MAIN)
3. LOAD SECTION (DISTRIBUTION)
4. SERVICE PULL SECTION
5. METER READING WINDOW
6. METER SOCKET COVER
7. TEST SECTION COVER
8. DEAD FRONT
9. UTILITY LANDING LUGS
10. METER SECTION BARRIER
11. PANEL BOARD DEADFRONT
12. EQUIPMENT CHASSIS



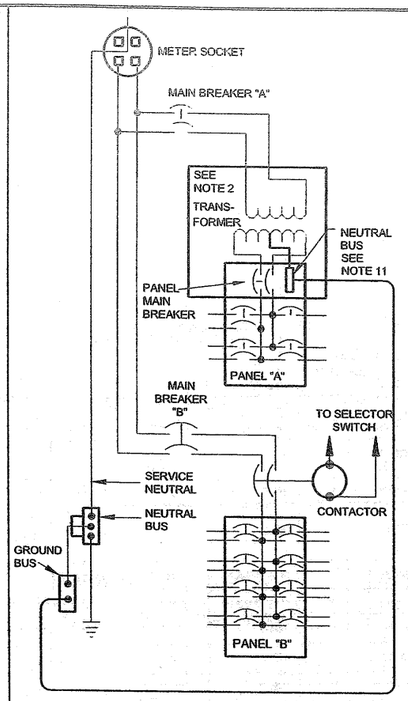
SECTION "A"

13. MOUNTING PAN
14. STAINLESS STEEL PIN HINGE
15. COIN LATCH
16. HASP FOR PADLOCK
17. METER SOCKET KIT ASS'Y.
18. MAIN BREAKER(S)
19. NEUTRAL BAR
20. GROUND BAR
21. PANEL BOARD INTERIOR
22. ALTERNATE CONTACTOR LOCATION
23. CABLE OPENING



MOUNTING BASE

TYPE 1 LOAD CENTER CABINET SECTION / ELEVATION

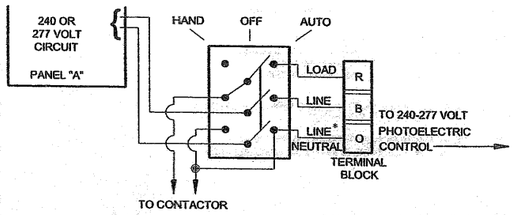


WIRING DIAGRAM

TYPE 1 LOAD CENTER

WIRING NOTES:

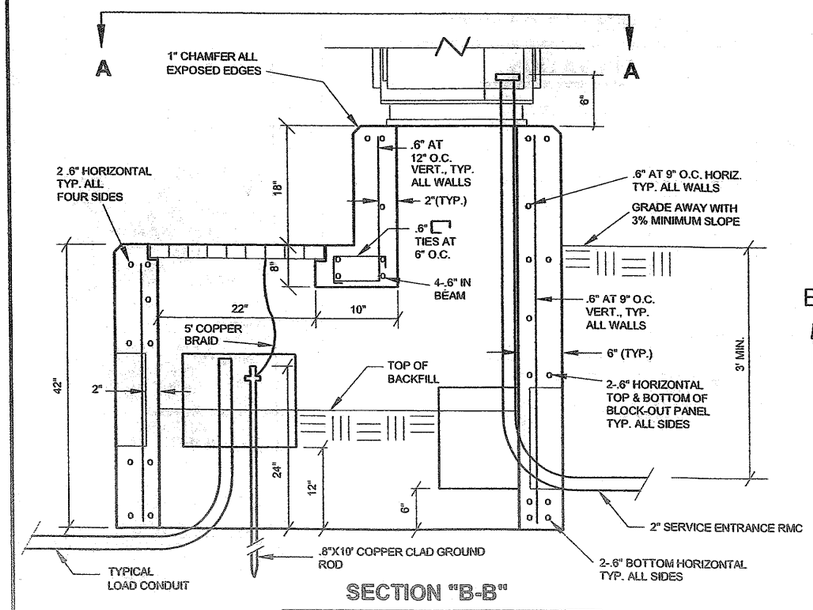
1. THE TYPE I LOAD CENTER IS INTENDED FOR USE WITH ALL 480 VOLT SERVICES AND THOSE 240 VOLT SERVICES, WHENEVER THE LOAD CONDUCTORS WILL NOT FIT INTO ONE TWO INCH CONDUIT.
2. THE SERVICE VOLTAGE IS SHOWN IN EACH LOAD CENTER SUMMARY. INSTALL A TRANSFORMER AND A PANEL WITH MAIN BREAKER WHENEVER A TRAFFIC SIGNAL CIRCUIT IS SPECIFIED AND 120 VOLTS IS NOT AVAILABLE.
3. PROVIDE LOAD PANELS SIZED FOR THE NUMBER OF DOUBLE POLE CIRCUIT BREAKERS SHOWN IN THE LOAD CENTER SUMMARIES, ALLOWING SPACE FOR TWO SPARE DOUBLE POLE BREAKERS.
4. INSTALL TWO SPARE DOUBLE POLE 20 AMPERE BREAKERS IN ALL LOAD PANELS.
5. THE CONTROL CIRCUIT AND CONTACTOR COIL RATING IS EITHER 240 OR 277 VOLT, AS DETERMINED BY THE SERVICE VOLTAGE.
6. INSTALL THE TRANSFORMER, WHEN CALLED FOR IN THE LOAD CENTER SUMMARY, ON WALL BRACKETS ATTACHED TO THE SIDE OF THE FOUNDATION. INSTALL THE WALL BRACKETS TO ENSURE THE BOTTOM OF THE TRANSFORMER IS IN THE SAME PLANE AS THE TOP OF THE FOUNDATION.
7. THE INTERRUPTING CAPACITY OF LOAD CENTER CIRCUIT BREAKERS SHALL BE 10,000 AIC AT 240 VOLTS AND 14,000 AIC AT 480 VOLTS, UNLESS OTHERWISE NOTED. LOAD CENTER INTERRUPTION RATING MAY BE A SERIES RATING.
8. MEYERS TYPE HUBS ARE UL LISTED AS A GROUNDING CONDUIT FITTINGS FOR WET LOCATIONS.
9. METALLIC CONDUITS, MUST BE GROUNDED AT EACH END. PROVIDE INSULATED THROAT GROUNDING BUSHINGS.
10. GROUND CONDUCTORS TO BE COPPER SIZED PER NEC TABLES 250-94 AND 250-95, UNLESS NOTED AS LARGER; #8 AWG MINIMUM.
11. IF PANEL-A IS DERIVED FROM A TRANSFORMER PER NOTE #2 , PROVIDE A SEPARATE NEUTRAL BUS AND BOND TO LOAD CENTER GROUND BUS.
12. SEE LOAD CENTER SUMMARIES SHEET D6 OR CIRCUIT AND COMPONENT DESCRIPTIONS AND RATINGS.



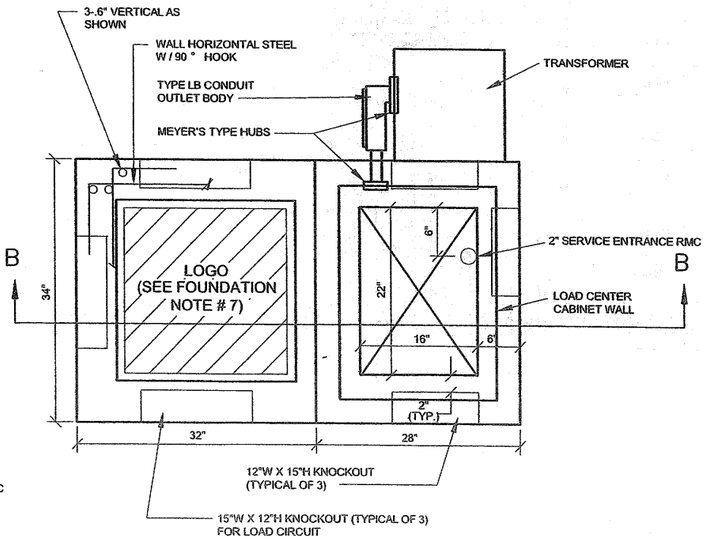
SELECTOR SWITCH WIRING

(USING 10 AMP, 3 POLE, 3 POSITION SWITCH)

* GROUNDED NEUTRAL IF SERVICE IS 240/480 VOLT SINGLE PHASE, OR 277/480 VOLT THREE-PHASE UNGROUNDED LINE IF SERVICE IS 120/240 VOLT SINGLE-PHASE.



SECTION "B-B"



VIEW "A-A"

(PLAN VIEW)

TYPE 1 LOAD CENTER BASE

NOTE: STOP HORIZONTAL & VERTICAL STEEL AT BLOCK-OUT PANELS & OPTIONAL JOINT USING HOOK. INSTALL 2 EXTRA .6" HORIZONTAL & VERTICAL BARS ON ALL SIDES OF EACH KNOCKOUT.

FOUNDATION AND LOCATION NOTES:

1. INSTALL THE BASE SO THE CAST IRON COVER IS FLUSH WITH THE PAVEMENT, SIDEWALK, OR FINISHED GRADE. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING.
2. EXCAVATE 60" BELOW FINISH GRADE FOR THE BASE AND INSTALL A DRAIN CONSISTING OF 18" OF COARSE CONCRETE AGGREGATE AS APPROVED BY THE ENGINEER. BACK-FILL AROUND THE BASE IN 6" LIFTS WITH SELECTED MATERIAL TYPE "A".
3. BACKFILL INSIDE THE FOUNDATION TO WITHIN 24" OF THE LID AFTER ALL OF THE CONDUITS ARE INSTALLED, USING COARSE AGGREGATE. TERMINATE THE ENDS OF ALL LOAD CONDUITS A MINIMUM OF 6" ABOVE THE COARSE CONCRETE AGGREGATE SURFACE AND A MINIMUM OF 12" BELOW THE LID.
4. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
5. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615.
6. USE CLASS "A" CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS.
7. FINISH THE BASE ACCESS OPENING WITH A 20" SQUARE IRON FRAME AND COVER, WEIGHING APPROXIMATELY 280 LBS. PROVIDE COVERS INSCRIBED WITH THE LEGEND "LIGHTING" FOR THOSE LOAD CENTERS WITH STREET LIGHTING CIRCUITS ONLY, AND "TRAFFIC" FOR THOSE LOAD CENTERS WITH A TRAFFIC SIGNAL CIRCUIT.
8. THE BASE MAY BE PRECAST. IF IT IS PRECAST, INSTALL 4 EACH .6" FERRULE LOOP INSERTS FOR LIFTING, TWO ON EACH LONG SIDE.

PATH
G:\Jnu\71431\TR\Signal Pole-Details.dwg
Wed, 06/Sep/06 04:25PM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
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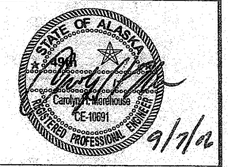
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

TYPE I LOAD CENTER DETAILS

DESIGNED BY: D. FAGNANT



CHECKED BY: C. MOREHOUSE

DRAWN BY: D. STEVENS

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

SUNNY POINT INTERSECTION IMPROVEMENTS

TYPE I LOAD CENTER DETAILS

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
Q7A	269

ATR-1 CONDUIT/CONDUCTOR SUMMARY					
CONDUIT				CABLE	
TYPE	SIZE	FROM	TO	QTY.	TYPE
RMC	2"	JB-1	ATR-1	2	7PR No. 18
RMC	2"	JB-2	JB-1	2	7PR No. 18
RMC	2"	JB-3	JB-2	2	7PR No. 18
PVC	1"	NB-1	JB-3	1	1PR No. 14
PVC	1"	NB-2	JB-3	1	1PR No. 14
PVC	1"	NB-3	JB-3	1	1PR No. 14
PVC	1"	NB-4	JB-3	1	1PR No. 14
PVC	1"	SB-1	JB-3	1	1PR No. 14
PVC	1"	SB-2	JB-3	1	1PR No. 14
PVC	1"	SB-3	JB-3	1	1PR No. 14
PVC	1"	SB-4	JB-3	1	1PR No. 14

ATR-2 CONDUIT/CONDUCTOR SUMMARY					
CONDUIT				CABLE	
TYPE	SIZE	FROM	TO	QTY.	TYPE
RMC	2"	JB-4	ATR-2	2	7PR No. 18
RMC	2"	JB-4	ATR-2	8	PIEZO SENSOR HOMERUN CABLE
RMC	2"	JB-5	JB-3	2	7PR No. 18
RMC	2"	JB-5	JB-3	8	PIEZO SENSOR HOMERUN CABLE
RMC	2"	UTIL POLE	ATR-2	1	*
RMC	2"	UTIL POLE	ATR-2	1	*
PVC	1"	NB-1	JB-5	1	1PR No. 14
PVC	1"	NB-2	JB-5	1	1PR No. 14
PVC	1"	NB-3	JB-5	1	1PR No. 14
PVC	1"	NB-4	JB-5	1	1PR No. 14
PVC	1"	SB-1	JB-5	1	1PR No. 14
PVC	1"	SB-2	JB-5	1	1PR No. 14
PVC	1"	SB-3	JB-5	1	1PR No. 14
PVC	1"	SB-4	JB-5	1	1PR No. 14
RMC	1"	PNB-1	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PNB-2	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PNB-3	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PNB-4	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PSB-1	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PSB-2	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PSB-3	JB-5	1	PIEZO SENSOR HOMERUN CABLE
RMC	1"	PSB-4	JB-5	1	PIEZO SENSOR HOMERUN CABLE

* PHONE AND POWER CABLES TO BE INSTALLED BY UTILITY COMPANY

ATR-3 CONDUIT/CONDUCTOR SUMMARY					
CONDUIT				CABLE	
TYPE	SIZE	FROM	TO	QTY.	TYPE
RMC	2"	JB-6	PTR-3	1	7PR No. 18
PVC	1"	NB-1	JB-6	1	1PR No. 14
PVC	1"	NB-2	JB-6	1	1PR No. 14
PVC	1"	NB-3	JB-6	1	1PR No. 14
PVC	1"	NB-4	JB-6	1	1PR No. 14
PVC	1"	SB-1	JB-6	1	1PR No. 14
PVC	1"	SB-2	JB-6	1	1PR No. 14

See Seperate Electrical As-builts sheets Q1 -> Q15

AUTOMATIC TRAFFIC RECORDER SUMMARY				
NO.	TYPE	STATION	OFFSET	NOTES
ATR-1	AVV - DB	"E" 102+50	57' RT	AUTOMATED VEHICLE VOLUME (DRY BOX)
ATR-2	AVC	"L" 334+37	36' LT	AUTOMATED VEHICLE CLASSIFICATION (CLASS COUNT)
ATR-3	AVV - DB	"G" 13+90	48' LT	AUTOMATED VEHICLE VOLUME (DRY BOX)

JUNCTION BOX SUMMARY				
NO.	TYPE	STATION	OFFSET	NOTES
1.	II	"E" 102+45	57' RT	-
2.	II	"E" 102+45	5' RT	-
3.	II	"E" 102+15	5' RT	-
4.	II	"L" 334+37	40' LT	-
5.	II	"E" 146+12	NONE	-
6.	II	"G" 13+90	38' LT	-

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

AUTOMATIC TRAFFIC
RECORDER SUMMARIES

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
49th
Carolyn L. Morehouse
CE-10961
REGISTERED PROFESSIONAL ENGINEER
9/7/06

CHECKED BY: C. MOREHOUSE
DRAWN BY: D. FAGNANT

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

SUNNY POINT
INTERSECTION
IMPROVEMENTS

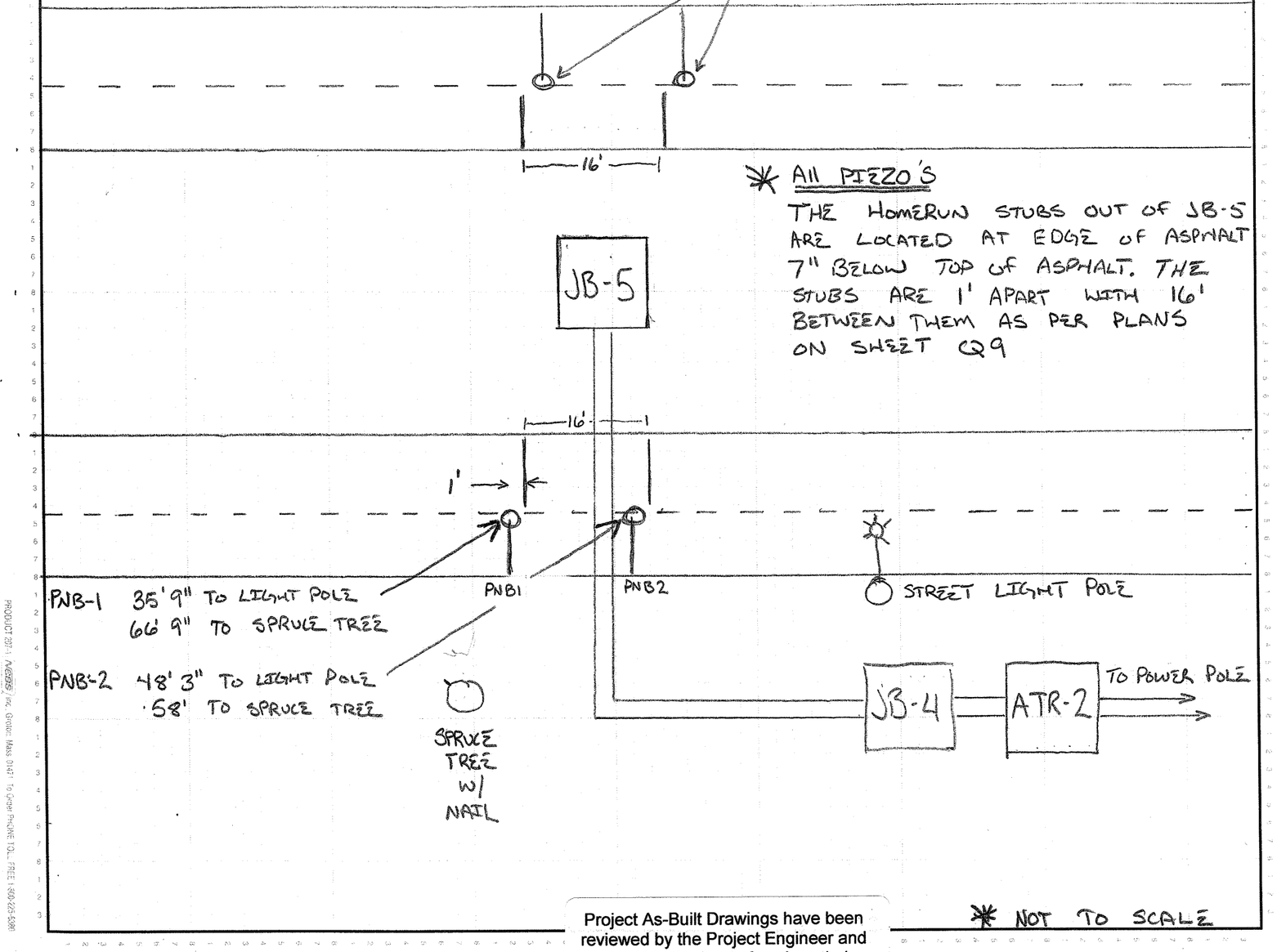
AUTOMATIC TRAFFIC
RECORDER SUMMARIES

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q8	269

ATR-2

THE CONDUIT STUBS FOR THE PIEZO WERE LOCATED BY SECON SURVEYOR SATELITE LOCATING EQUIPMENT.



* All PIEZO'S

THE HOMERUN STUBS OUT OF JB-5 ARE LOCATED AT EDGE OF ASPHALT 7" BELOW TOP OF ASPHALT. THE STUBS ARE 1' APART WITH 16' BETWEEN THEM AS PER PLANS ON SHEET Q9

* NOT TO SCALE

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

PE Hopper Date 10/14/10

JOB # 7400 SUNNY POINT

SHEET NO. PIEZO ATR-3 OF SHEET Q9

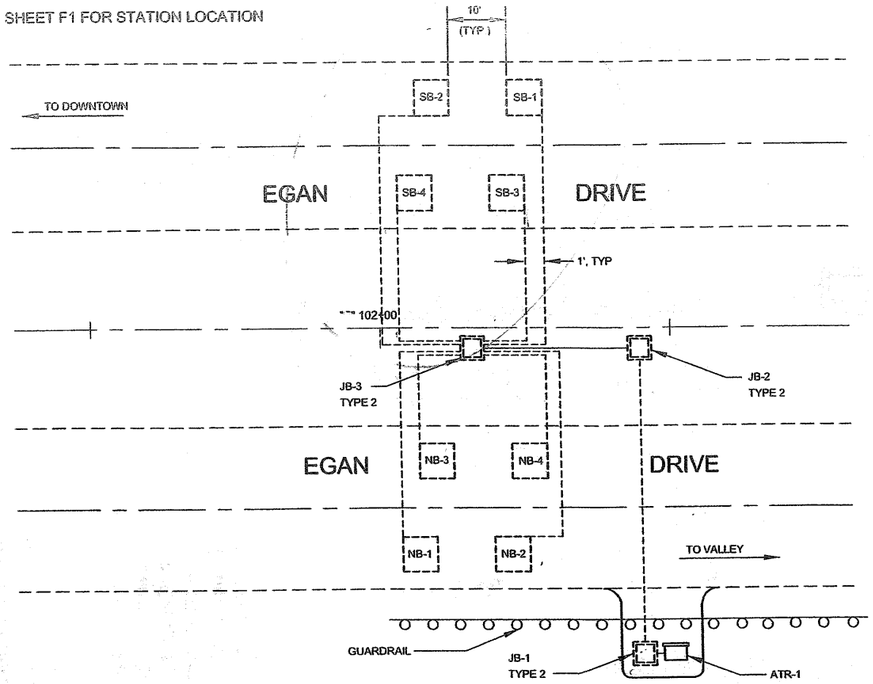
CALCULATED BY _____ DATE _____

CHECKED BY _____ DATE _____

SCALE _____

PRODUCT 2007 © AGERIS, Inc. Groton, Mass 01471 TO ORDER PHONE TOLL FREE 1-800-225-5080

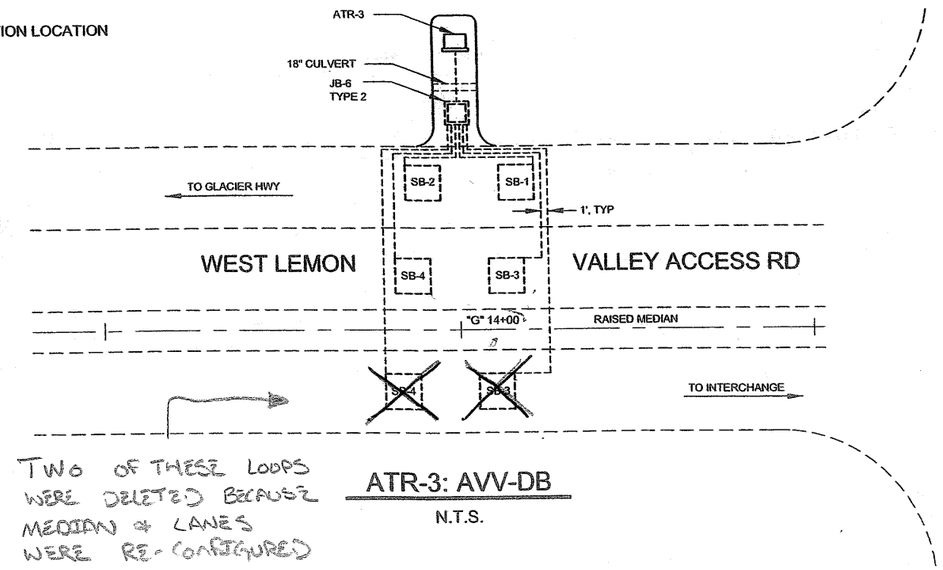
NOTE: SEE SHEET F1 FOR STATION LOCATION



ATR-1: AVV-DB

N.T.S.

NOTE: SEE SHEET F24 FOR STATION LOCATION

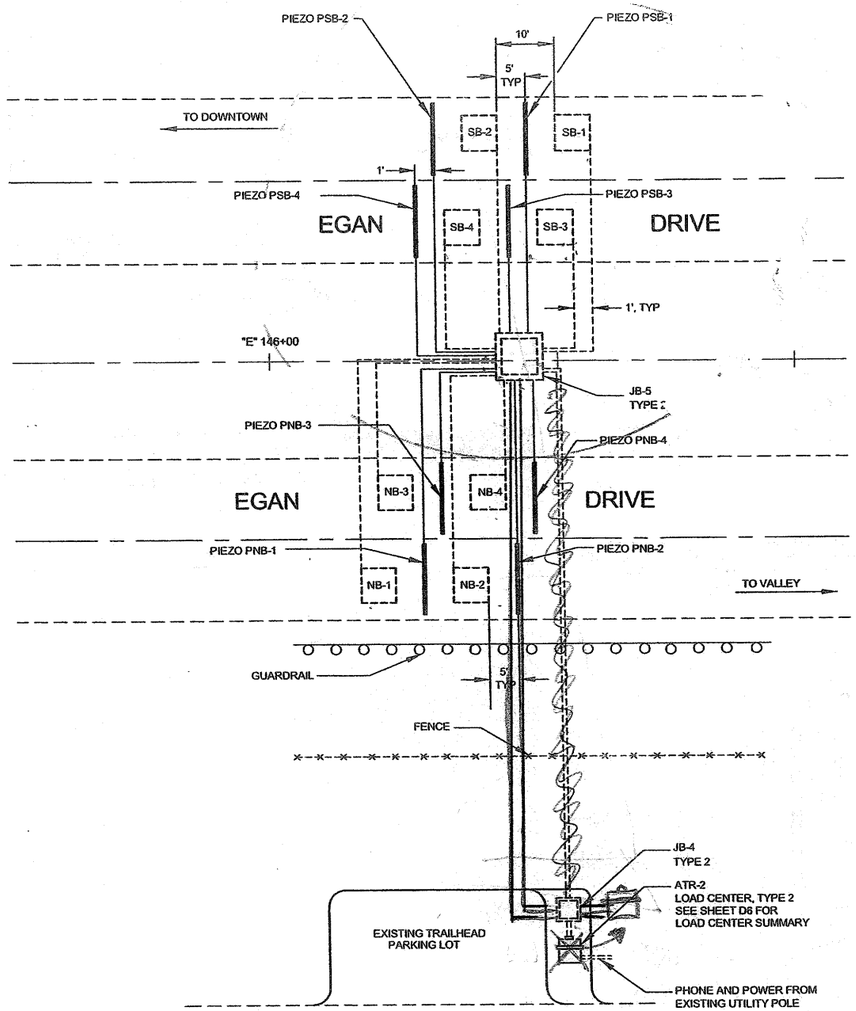


* TWO OF THESE LOOPS WERE DELETED BECAUSE MEDIAN & LANES WERE RE-CONFIGURED

ATR-3: AVV-DB

N.T.S.

NOTE: SEE SHEET F9 FOR STATION LOCATION



ATR-2: AVC

N

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

PE Hopper Date 10/14/10

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RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

AUTOMATIC TRAFFIC
RECORDER PLAN VIEW

DESIGNED BY: D. FAGNANT

STATE OF ALASKA — Carolyn H. Morehouse — CE-10961 — REGISTERED PROFESSIONAL ENGINEER — 9/1/06

CHECKED BY: C. MOREHOUSE

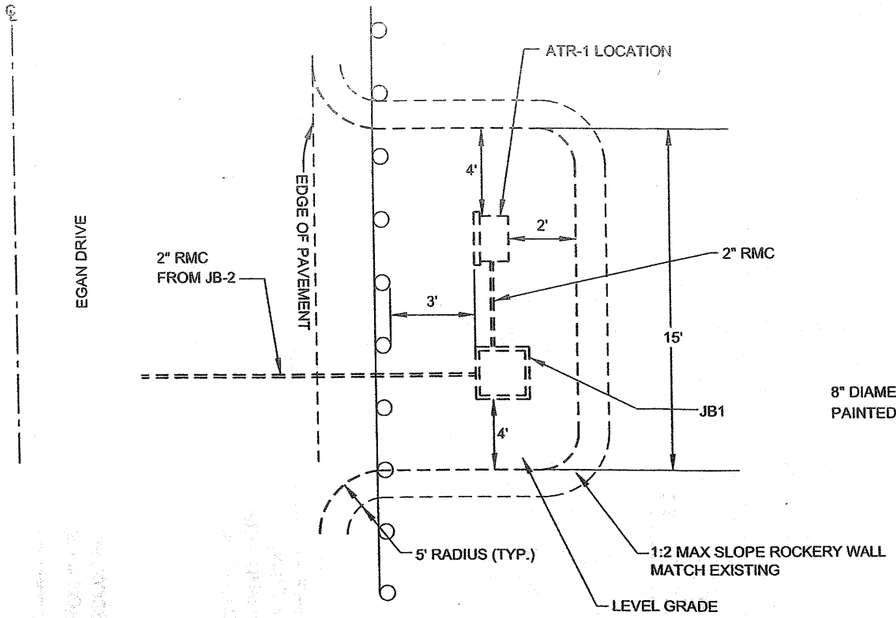
DRAWN BY: D. FAGNANT

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

SUNNY POINT
INTERSECTION
IMPROVEMENTS

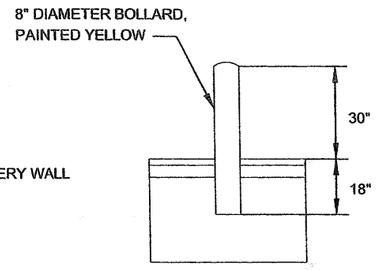
AUTOMATIC TRAFFIC
RECORDER PLAN VIEW

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q9A	269

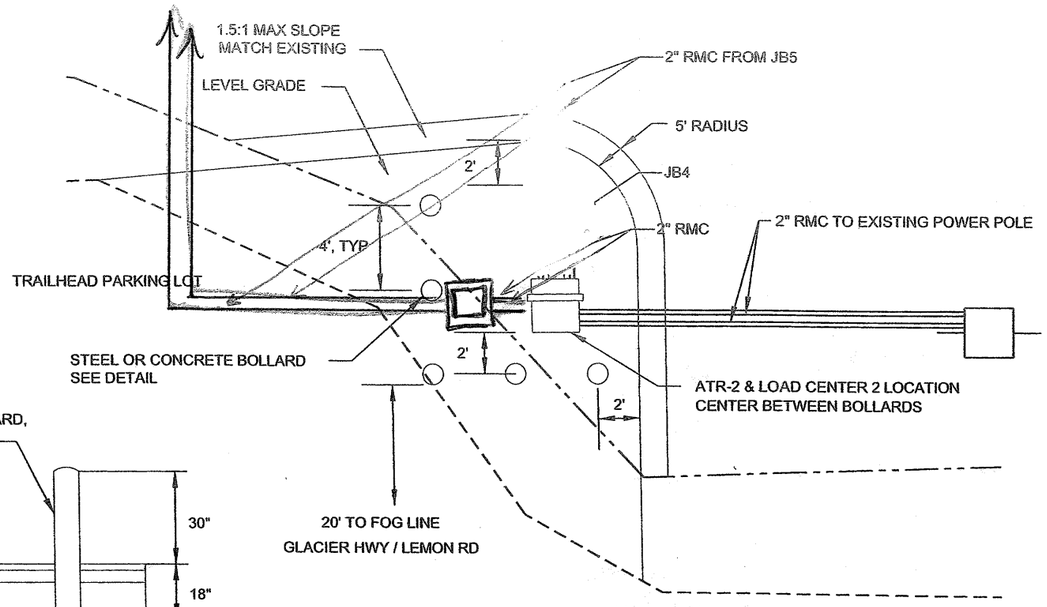


PLAN VIEW OF PAD, ATR-1

N.T.S.

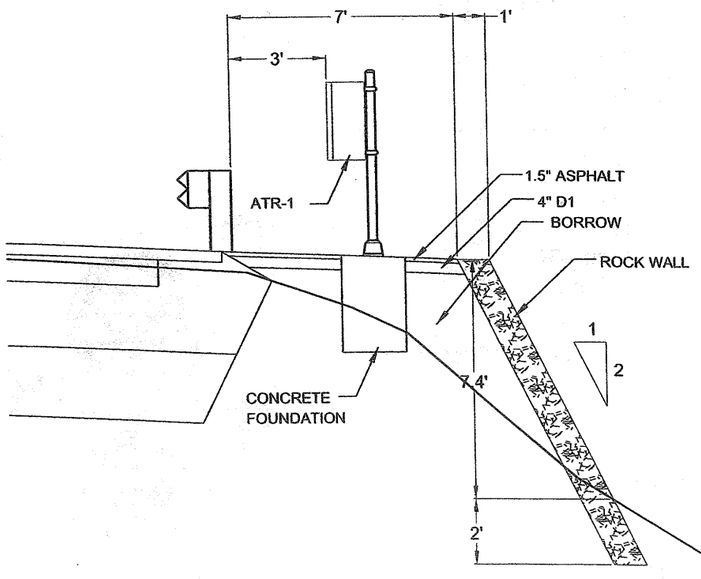


BOLLARD DETAIL



PLAN VIEW OF PAD, ATR-2

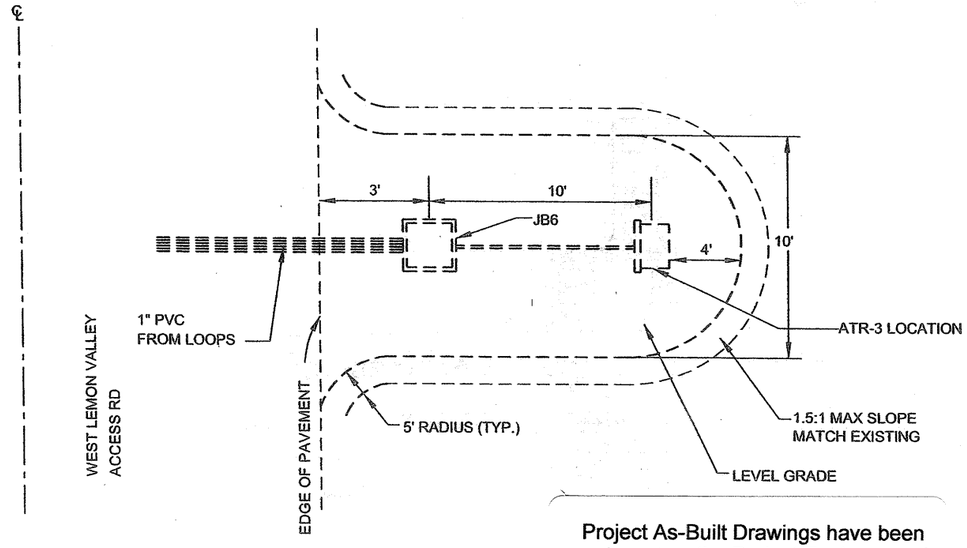
N.T.S.



PROFILE OF PAD, ATR-1

N.T.S.

NOTE:
1.5" ASPHALT, 4" D1 BASE COURSE, AND REMAINING FILL AS BORROW (SHOWN IN PROFILE VIEW OF PAD, ATR-1) SHALL BE STANDARD FOR ALL PADS. ROCK WALL SHALL BE USED ONLY ON PAD FOR ATR-1.



PLAN VIEW OF PAD, ATR-3

N.T.S.

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

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RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

AUTOMATIC TRAFFIC
RECORDER DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
4961
Carolyn H. Morehouse
CE-10961
REGISTERED PROFESSIONAL ENGINEER
9/7/06

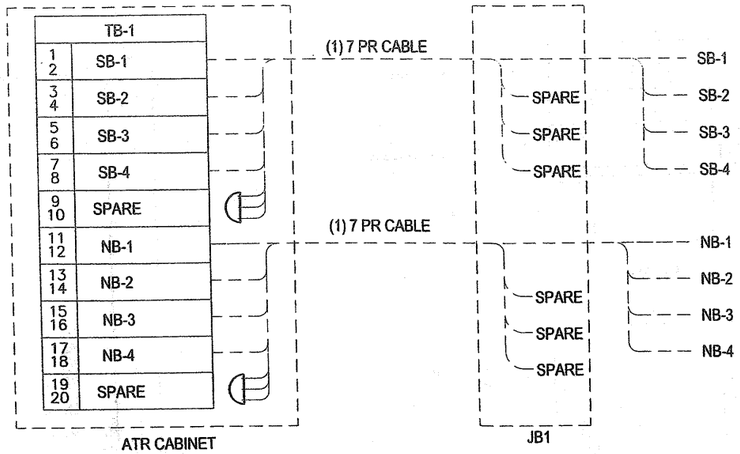
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DRAWN BY: D. FAGNANT

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

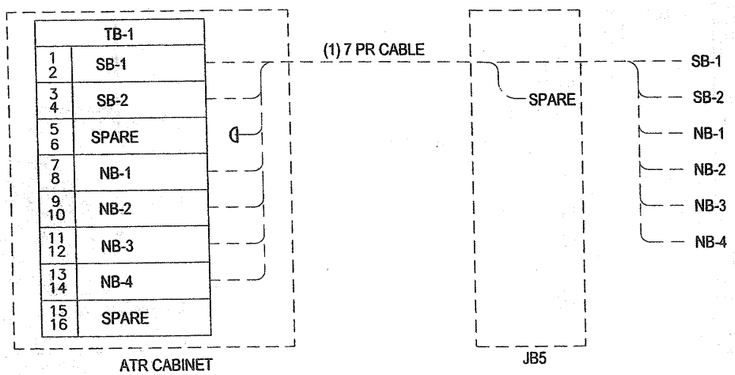
SUNNY POINT
INTERSECTION
IMPROVEMENTS

AUTOMATIC TRAFFIC
RECORDER DETAILS

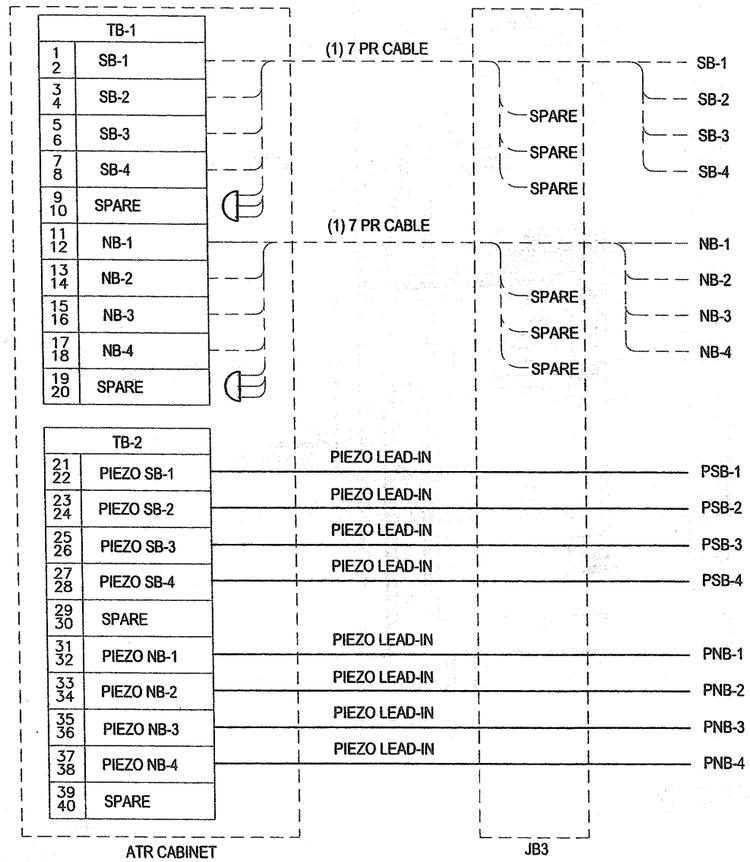
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STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q10 +4	269



ATR-1 WIRING SCHEMATIC



ATR-3 WIRING SCHEMATIC



ATR-2 WIRING SCHEMATIC

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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TRAFFIC RECORDER
WIRING DIAGRAMS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA 4967 Carolyn H. Morehouse CE-10961 REGISTERED PROFESSIONAL ENGINEER 9/7/06

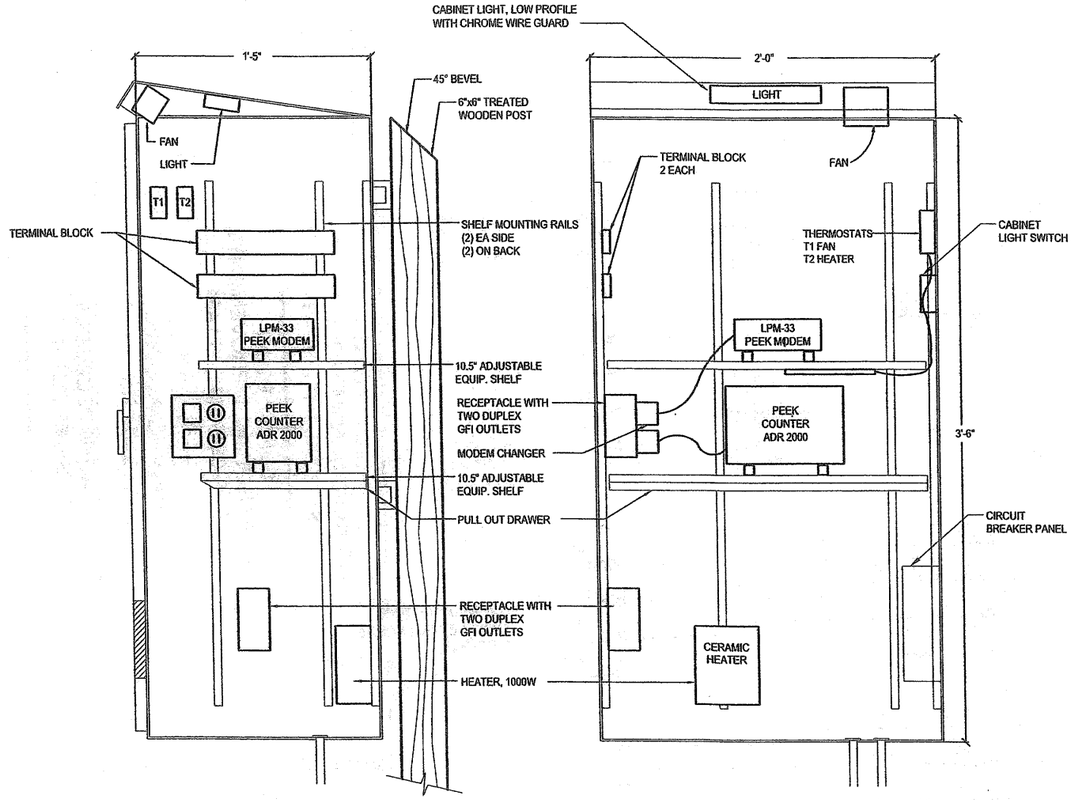
CHECKED BY: C. MOREHOUSE
DRAWN BY: D. FAGNANT

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

SUNNY POINT
INTERSECTION
IMPROVEMENTS

TRAFFIC RECORDER
WIRING DIAGRAMS

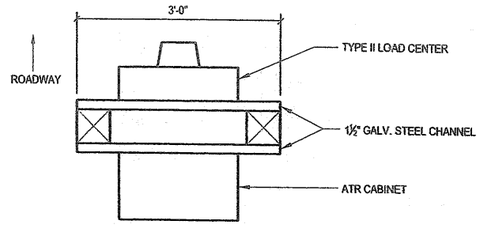
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SHEET NUMBER	TOTAL SHEETS
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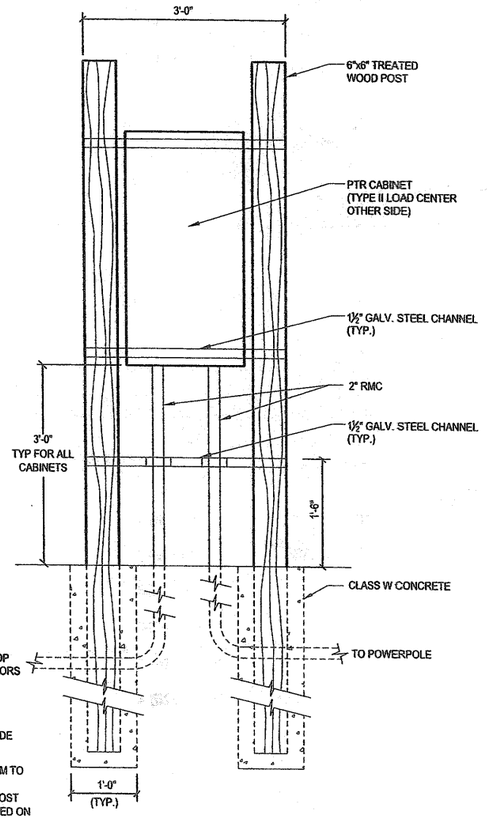
ATR-2 CABINET DETAILS

NOTES:

1. USE CONDUIT HUBS IN BOTTOM OF CABINET. USE TYPE CHT WITH NEOPRENE SEAL AND INSULATED THROAT FOR NON-POWER CONDUITS WITH DETECTOR LEAD-IN CABLES AND TELEPHONE SERVICE. USE TYPE CHN FOR SERVICE ENTRANCE CONDUIT AND CONNECT FLEXIBLE METAL CONDUIT TO CB PANEL INSIDE CABINET.
2. SEE SPECIFICATIONS FOR ADDITIONAL CABINET REQUIREMENTS.
3. CABINET DOOR SHALL FACE AWAY FROM ROADWAY.
4. PROVIDE VOLTAGE SURGE PROTECTION IN CB PANEL.
5. ALL 120V WIRING, INCLUDING THAT FOR PANELBOARD, LIGHT, FAN, AND THERMOSTATS TO BE IN FLEXIBLE METAL CONDUIT WITH EXCEPTION OF CORD CONNECTED ELECTRONIC EQUIPMENT.
6. ALL EQUIPMENT INSIDE CABINET TO BE FASTENED TO RAILS WITH NO SCREW PENETRATIONS OF THE CABINET SURFACE.
7. THE ATR CABINETS SHALL BE AN ALUMINUM WITH NOMINAL DIMENSIONS AS SHOWN ON THE PLAN.



PLAN



NOTES:

1. LOAD CENTER SHALL BE ON SIDE FACING EGAN DRIVE.
2. INSTALLATION SHALL CONFORM TO STANDARD DRAWING L-26.00, TYPE II LOAD CENTER, DUAL POST ALTERNATIVE EXCEPT AS NOTED ON THESE PLANS.

ELEVATION

ATR-2 CABINET & LOAD-CENTER DETAIL

(H1) PTR-2, CLASS COUNT

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TRAFFIC RECORDER
CABINET DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
Carolyn H. Morehouse
CE-10561
PROFESSIONAL ENGINEER
9/7/06

CHECKED BY: C. MOREHOUSE
DRAWN BY: D. FAGNANT

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

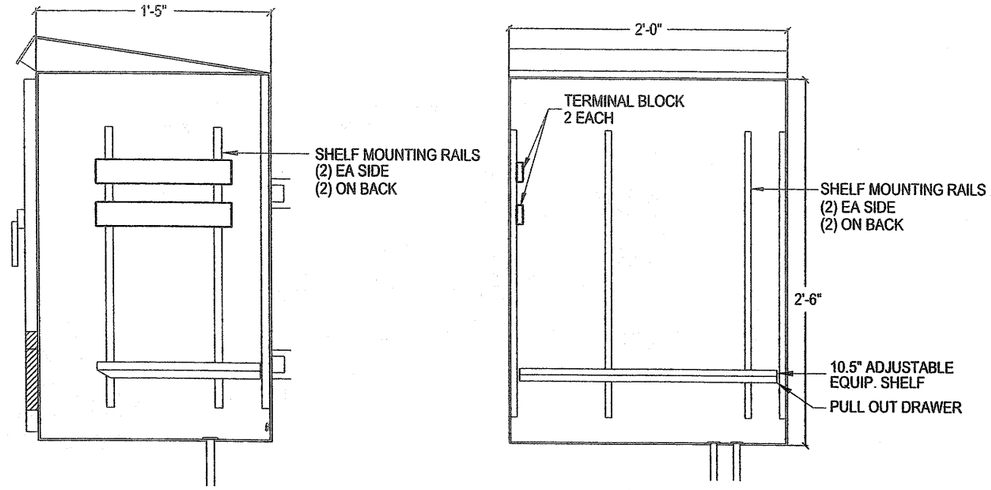
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TRAFFIC RECORDER
CABINET DETAILS

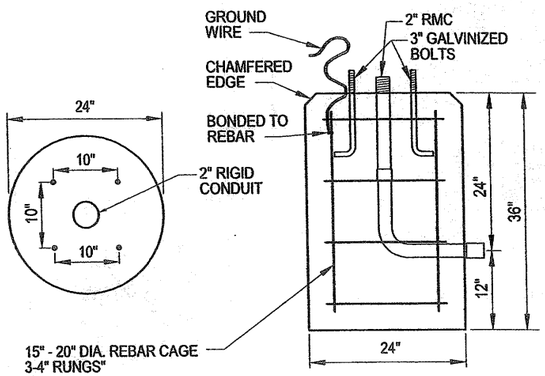
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NOTES:

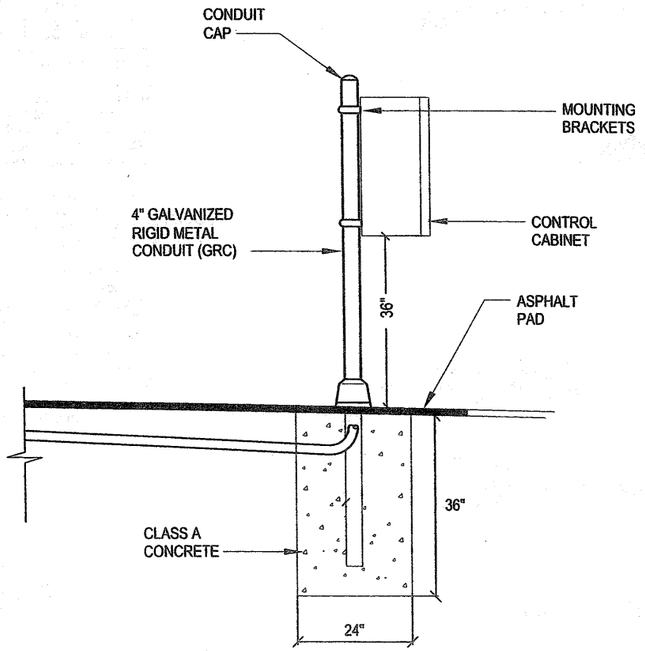
1. USE CONDUIT HUBS IN BOTTOM OF CABINET. USE TYPE CHT WITH NEOPRENE SEAL AND INSULATED THROAT FOR NON-POWER CONDUITS WITH DETECTOR LEAD-IN CABLES AND TELEPHONE SERVICE. USE TYPE CHN FOR SERVICE ENTRANCE CONDUIT AND CONNECT FLEXIBLE METAL CONDUIT TO CB PANEL INSIDE CABINET.
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6. ALL EQUIPMENT INSIDE CABINET TO BE FASTENED TO RAILS WITH NO SCREW PENETRATIONS OF THE CABINET SURFACE.
7. THE ATR CABINET SHALL BE AN ALUMINUM TYPE G BOX WITH NOMINAL DIMENSIONS AS SHOWN ON THE PLAN.



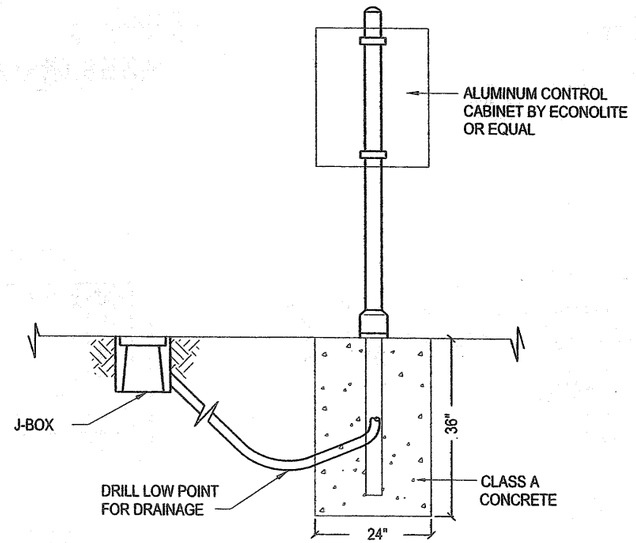
ATR-1 & 3 INTERNAL CABINET DETAILS
NTS



CABINET POST FOOTING DETAIL
FOR ATR 1 & 3



SIDE VIEW



ROAD VIEW

ATR-1 & 3 EXTERNAL CABINET DETAILS
NTS

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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TRAFFIC RECORDER
CABINET DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
REGISTERED
Carolyn M. Morehouse
CE-10961
PROFESSIONAL ENGINEER
9/7/06

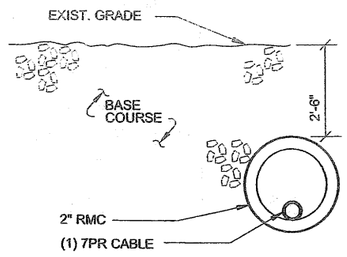
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DRAWN BY: D. FAGNANT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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STATEWIDE DESIGN & ENGINEERING
SERVICES DIVISION

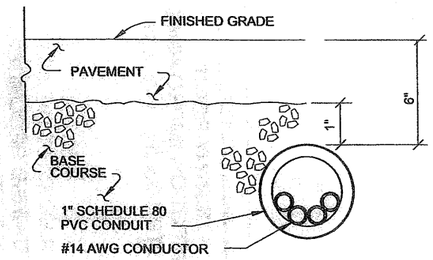
SUNNY POINT
INTERSECTION
IMPROVEMENTS

TRAFFIC RECORDER
CABINET DETAILS

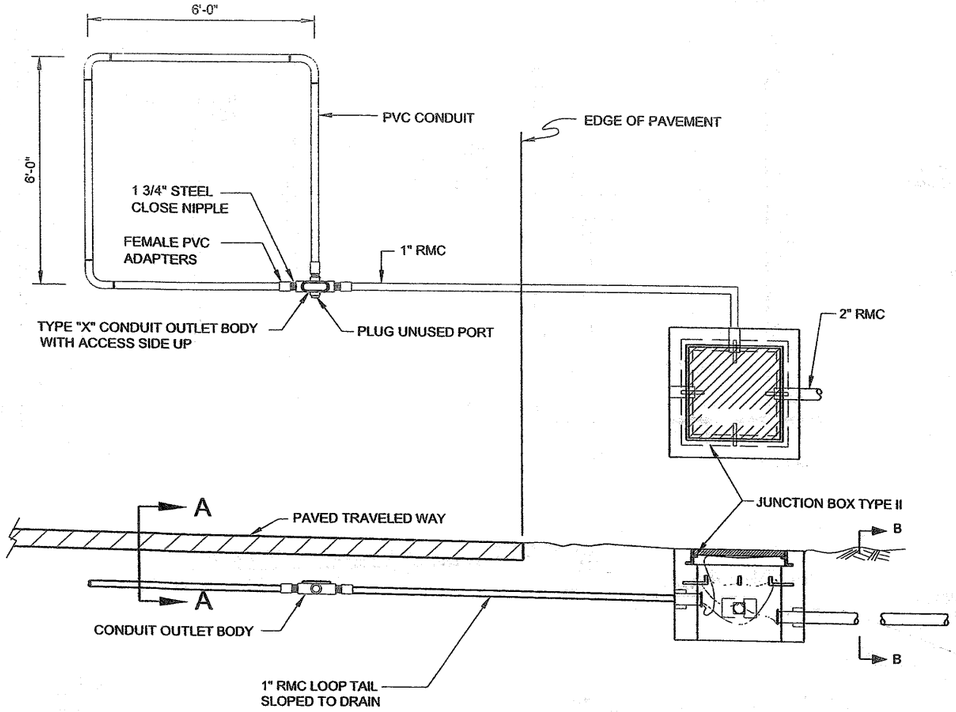
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STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q13A	269



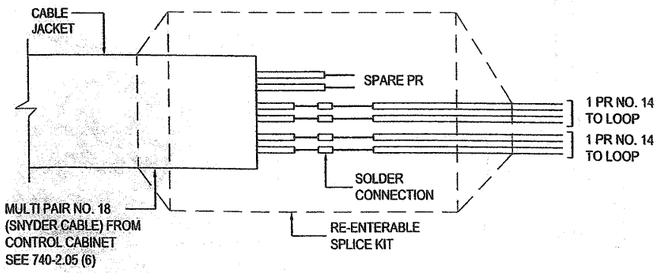
SECTION B-B



PVC CONDUIT DETAIL
SECTION A-A

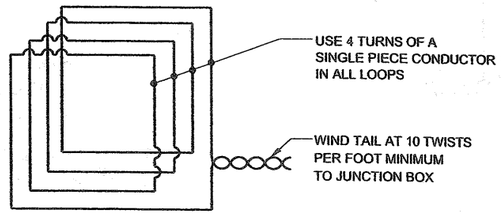


SHOULDER SECTION



TYPICAL SPLICE DETAILS

NOTES:
1. SCHEMATIC SKETCH SHOWS AN EXAMPLE OF TWO PAIRS USED WITH ONE SPARE
2. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
3. SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
4. SOLDER CONNECTIONS. DO NOT USE COMPRESSION CONNECTORS WRAP EACH CONDUCTOR OVER OTHER CONDUCTOR BEFORE SOLDERING.
5. USE COMMERCIAL SPLICE KITS SIMILAR OR EQUAL TO 3M PRODUCTS, TYPE 82-F1.



LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION

GENERAL NOTES

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN 1" SCHEDULE 80 PVC CONDUIT. FORM ALL LOOPS 6 FEET SQUARE, SOLVENT WELD ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING EXISTING PAVEMENT OR PAVING A NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
5. NO MINIMUM CLEARANCE IS REQUIRED BETWEEN A LOOP AND A TAIL OR BETWEEN TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
7. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
8. WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT. CUT TO WITHIN 12" OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS; REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHEN THERE ARE NO EDGE LINES. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE. CUT TRENCHES A MINIMUM OF 3' WIDE WHEN INSTALLING LOOP TAILS ACROSS A LANE; TRENCHES CROSSING A SHOULDER ONLY MAY BE A MINIMUM 12" WIDE.
9. HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT PRIOR TO PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF PROPELLED STEEL WHEELED ROLLER. THE ASPHALT MIX SHALL CONFORM TO SECTION 401 OF THE SPECIFICATIONS, AND APPROVED FOR USE BY THE ENGINEER.
10. MAINTAIN THE REPLACEMENT ASPHALT MIX AT A TEMPERATURE OF 225° F UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THE SPECIFIED TEMPERATURE.
11. ALL WORK ASSOCIATED WITH INSTALLING LOOP DETECTORS IS CONSIDERED PART OF ITEM 667(1) & 668(1) AND WILL NOT BE MEASURED SEPARATELY OR PAID FOR DIRECTLY. THIS WORK INCLUDES BUT IS NOT LIMITED TO: LOOP MATERIALS, JUNCTION BOXES, CONDUIT, LOOP LEAD IN CABLE, TESTING, SPLICING, CONDUCTOR LABELING AND SAW CUTTING. ASPHALT REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
12. DUCT SEAL ALL CONDUITS INSIDE THE JUNCTION BOXES.

INDUCTIVE LOOPS

INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50' OF THE LOOPS.

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

AUTOMATIC TRAFFIC
RECORDER SUMMARIES

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
Carolyn H. Morehouse
CE-10961
REGISTERED PROFESSIONAL ENGINEER
9/7/06

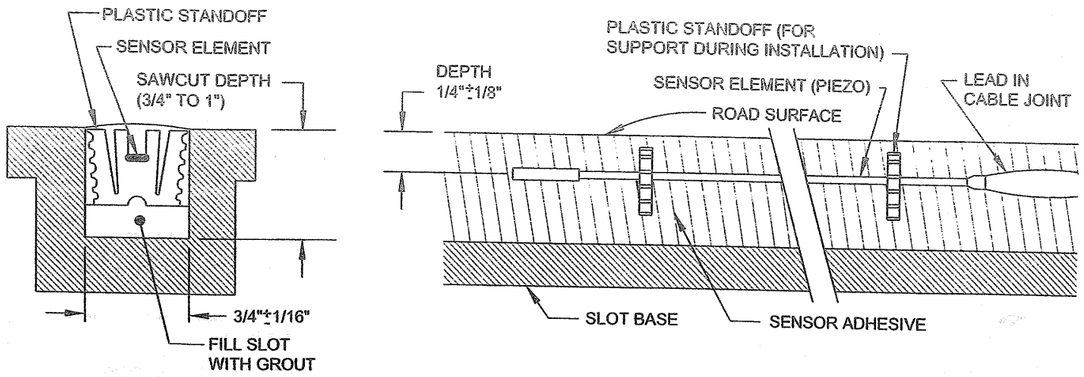
CHECKED BY: C. MOREHOUSE
DRAWN BY: D. FAGNANT

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

SUNNY POINT
INTERSECTION
IMPROVEMENTS

AUTOMATIC TRAFFIC
RECORDER SUMMARIES

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q14A	269

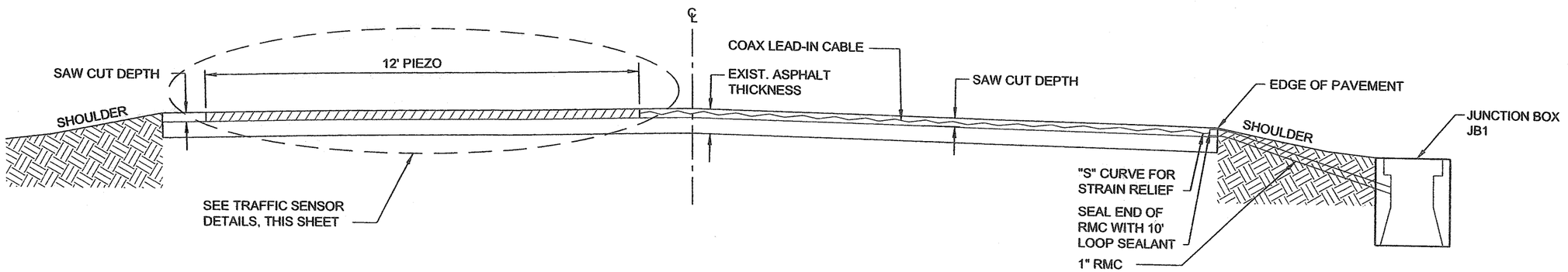


TRAFFIC SENSOR DETAILS: ATR-2

N.T.S.

NOTE:

THE TRAFFIC SENSOR (PIEZO) SHALL BE INSTALLED PER THE SPECIFICATIONS AND ONLY WHEN A PEEK MANUFACTURER'S REPRESENTATIVE IS PRESENT.



TRAFFIC SENSOR INSTALLATION DETAIL: ATR-2

N.T.S.

NOTES:

1. FOR CLARITY, ONLY FAR LANE PIEZO DETAIL SHOWN. NEAR LANE PIEZO IS SIMILAR.
2. THE SLOT FOR THE PIEZO SENSOR SHALL BE CUT USING BLADES THAT ARE GANGED TOGETHER.
3. CLEAN THE SLOT WITH COMPRESSED AIR AND HIGH PRESSURE WATER PER THE MANUFACTURER'S INSTRUCTIONS.
4. THE SLOT SHALL BE CLEAN AND COMPLETELY DRY BEFORE INSTALLING THE PIEZO SENSOR.
5. AFTER INSTALLING THE PIEZO SENSOR, THE CONTRACTOR SHALL FOLLOW THE PIEZO MANUFACTURER'S RECOMMENDATIONS TO PROPERLY INSTALL THE GROUT.

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ADDENDUM NUMBER

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SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

TRAFFIC RECORDER
PIEZO SENSOR DETAILS

DESIGNED BY: D. FAGNANT

STATE OF ALASKA
Caleb R. Morehouse
CE-10981
REGISTERED PROFESSIONAL ENGINEER
9/7/06

CHECKED BY: C. MOREHOUSE
DRAWN BY: D. FAGNANT

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

SUNNY POINT
INTERSECTION
IMPROVEMENTS

TRAFFIC RECORDER
PIEZO SENSOR DETAILS

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
Q15A	269

LEGEND

DESCRIPTION		DESCRIPTION
TYP TYPICAL		LIGHT POLE W/ LUMINAIRE.
EXTG EXISTING	"L1"	LIGHT POLE/JUNCTION BOX INDENTIFIER.
J-BOX JUNCTION BOX		HOME RUN
LGT LIGHT		CONDUIT WITH CONDUCTORS. SEE PLANS FOR SIZE AND QUANTITY.
LTG LIGHTING	GRS	GALVANIZED RIGID STEEL
SS STAINLESS STEEL	REC	RECEPTACLE
UG UNDERGROUND	W/	WITH
OH OVERHEAD	UGE	UNDERGROUND ELECTRICAL UTILITY
WP WEATHERPROOF	OHE	OVERHEAD ELECTRICAL UTILITY
GND GROUND	CKT	CIRCUIT
AFG ABOVE FINISHED GRADE		
FLEXIBLE CONDUIT		
CONT. CONTINUOUS		

NOTES (APPLICABLE TO SHEETS R1 THROUGH R4):

1. THE LOCATIONS OF THE EXISTING LIGHT POLES AND JUNCTION BOXES ARE BASED UPON SURVEY DATA, AND ORIGINAL PROJECT DRAWINGS. THE LOCATIONS OF DIRECT BURY CABLE/CONDUIT IS BASED UPON ORIGINAL DRAWINGS AND AN EDUCATED GUESS. LOCATIONS OF EQUIPMENT AND MATERIALS MAY NOT BE WHERE SHOWN, AND MAY NOT ALL BE SHOWN. OBTAIN UTILITY LOCATES PRIOR TO DIGGING AS WELL AS A PRIVATE LOCATE OF LIGHTING CIRCUITING. DIG WITH CAUTION.

(2) EXISTING LIGHT POLE AND BASE TO BE REMOVED.

(3) EXISTING JUNCTION BOX TO BE REMOVED.

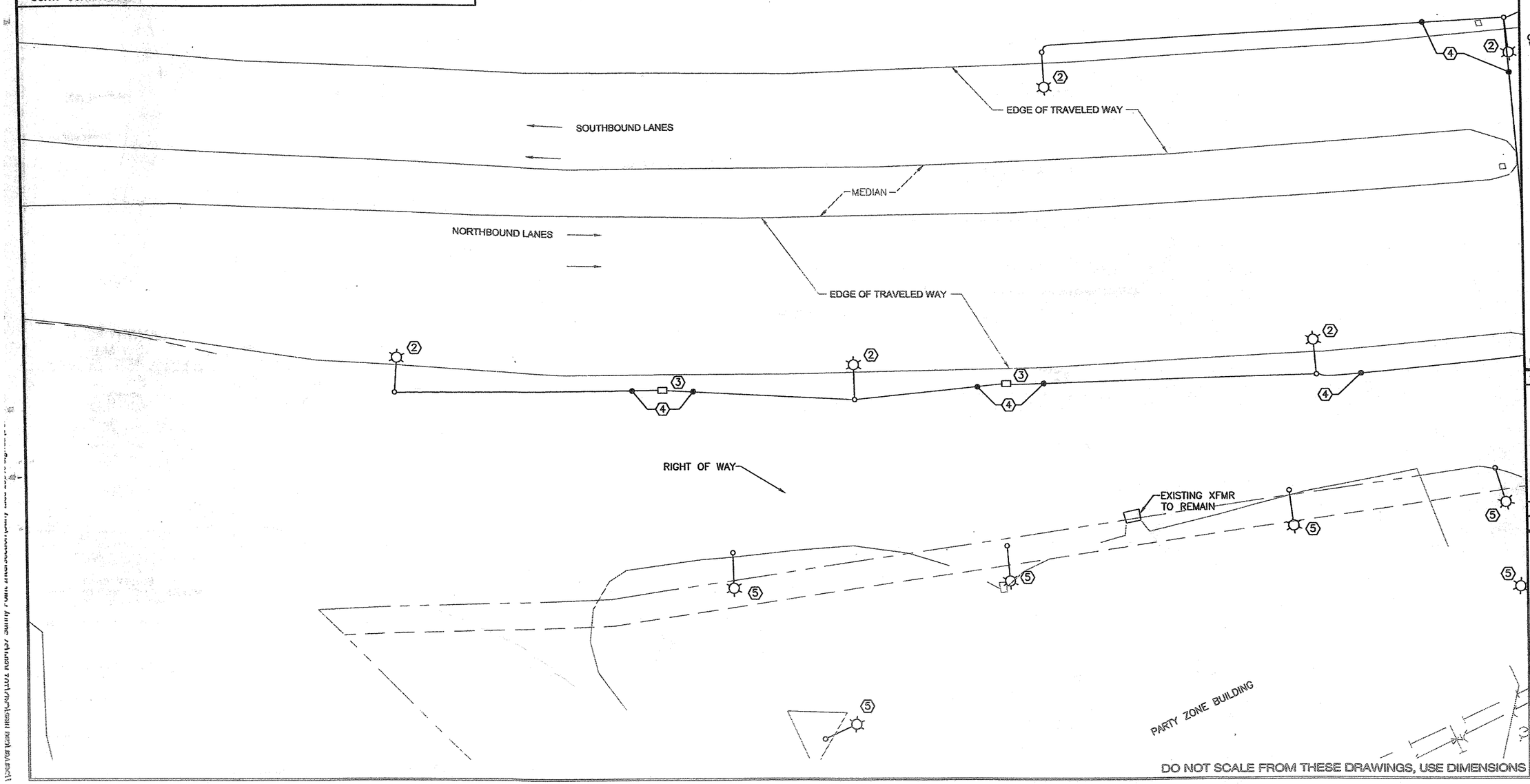
(4) EXISTING CONDUIT OR DIRECT BURIAL CABLE TO BE REMOVED. THE EXACT LOCATION, SIZE AND QUANTITY OF CONDUCTORS, AND SIZE AND QUANTITY OF CONDUIT IS UNKNOWN.

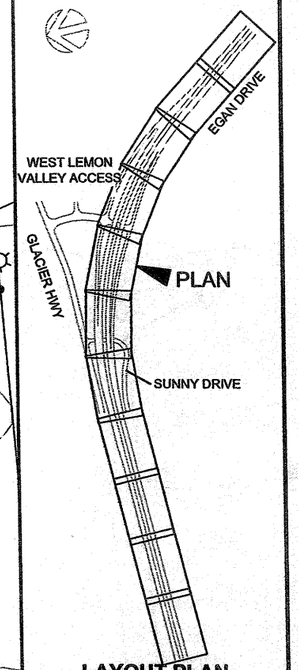
(5) EXISTING POLE.

(6) EXISTING UTILITY POLE, METER, AND OVERHEAD DROP TO BE REMOVED. EXISTING LOAD CENTER TO BE REPLACED. SEE SHEET R10 FOR NEW LOAD CENTER.

(7) EXISTING UTILITY UNDERGROUND ELECTRICAL. CONDUIT AND CONDUCTOR QUANTITY, SIZE, AND BURIAL DEPTH IS UNKNOWN. DIG WITH CAUTION. SEE SHEETS F7-F9 FOR ADDITIONAL UTILITY CONDUIT TO BE PLACED IN THIS AREA.

8. DOT MAY DESIRE THAT SOME OF THE EXISTING ELECTRICAL ITEMS BE SALVAGED (LIGHT POLES, MAST ARMS, LUMINAIRES, J-BOXES, ETC.). COORDINATE WITH DOT AS TO WHICH EXISTING ELECTRICAL ITEMS TO SALVAGE, AND DELIVER THESE ITEMS TO DOT'S YARD. ALL OTHER EXISTING ELECTRICAL ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. EXISTING ELECTRICAL ITEMS MAY BE USED FOR THE TEMPORARY LIGHTING SYSTEM. SEE NOTE 14, SHEET R5.





DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH — Mark G. Morris — Aug 04, 2006 — No. EE 8613 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Illumination Plan - Demolition

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R1	269

SUNNY DRIVE

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

MEDIAN

NORTHBOUND LANES

EDGE OF TRAVELED WAY

MEDIAN

RIGHT OF WAY

OVERHEAD DROP TO BE REMOVED (6)

METER TO BE REMOVED

LUMINAIRE MOUNTED TO UTILITY POLE (TYP)

UTILITY

"L" 318+00

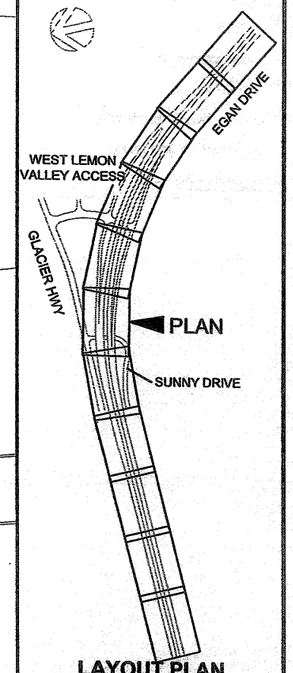
OLD GLACIER HIGHWAY

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Illumination Plan - Demolition

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R2	269

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SUNNY DRIVE

EGAN DRIVE

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

MEDIAN

NORTHBOUND LANES

EGAN DRIVE

EDGE OF TRAVELED WAY

UTILITY POLE (TYP)

"L" 319+00

"L" 320+00

"L" 323+00

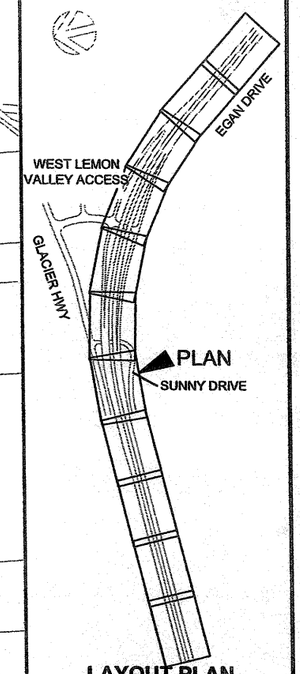
OLD GLACIER HIGHWAY

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

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LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8813
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
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SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Illumination Plan - Demolition

PROJECT DESIGNATION NUMBER	
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R3	269

SUNNY DRIVE

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

MEDIAN

NORTHBOUND LANES

EDGE OF TRAVELED WAY

UTILITY POLE (TYP)

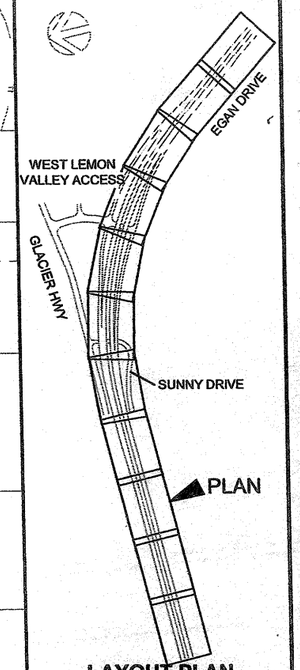
EXISTING UTILITY POLE

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA
49 TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Illumination Plan - Demolition

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R4	269

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NOTES (APPLICABLE TO SHEETS R5 THROUGH R14):

0. THE TERMS LIGHT POLE AND ELECTROLIER ARE USED INTERCHANGABLEY ON THIS PROJECT. THE TERM "ELECTROLIER" IS DEFINED AS THE COMPLETE ASSEMBLY OF THE POLE, MAST ARM, LUMINAIRE, BALLAST, AND LAMP. THE TERM "LIGHT POLE" IS USED TO REFER TO THE SAME ASSEMBLY. THE TERM LUMINAIRE IS DEFINED AS THE ASSEMBLY WHICH HOUSES THE LIGHT SOURCE AND CONTROLS THE LIGHT EMITTED FROM THE LIGHT SOURCE. LUMINAIRES CONSIST OF A HOOD (INCLUDING THE SOCKET), REFLECTOR, AND GLASS GLOBE OR REFRACTOR. THE TERMS "LIGHT POLE BASE" AND "POLE BASE" ARE USED TO REFER TO THE ELECTROLIER FOUNDATION.

1. ALL MOUNTING HARDWARE, FASTENERS, ETC. SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

(2) ALL CONDUIT SHALL BE SCHEDULE 40 PVC, HDPE, OR GRS. USE GRS ELBOWS AND SWEEPS. ALL EXPOSED CONDUIT AND CONDUIT WITHIN 10' OF A STRUCTURE SHALL BE GALVANIZED RIGID STEEL. USE THREE CONDUCTOR CABLE WITH COPPER CONDUCTORS WITH XHHW OR RHW INSULATION RATED AT 600V. USE TWO CONDUCTORS FOR POWER AND ONE AS A SPARE. SPLICE CONDUCTORS ONLY IN LIGHT POLES UNLESS NOTED OTHERWISE. BURY CONDUIT PER TRENCH DETAILS ON SHEET R19. THE CABLE SHALL HAVE AN OUTER JACKET OF XLP OR APPROVED EQUAL. CONDUIT MAY BE PLOWED IN WITH ENGINEER'S APPROVAL OF EQUIPMENT. DIG TRENCHES WHERE CONFLICTS WITH PIPING, CONDUIT, STRUCTURES, ETC. MAY OCCUR. MAINTAIN 36" SEPARATION OF CONDUIT FROM OTHER PIPING AND UTILITY CONDUIT. DO NOT SHARE A TRENCH WITH OTHER UTILITY PIPING. LOCATE CONDUIT WHERE SHOWN ON PLAN SHEETS. ADJUST CONDUIT DEPTH (DEEPER WHERE POSSIBLE) TO AVOID STORM PIPES, CATCH BASINS, AND OTHER PIPING, EXISTING CONDUIT, STRUCTURES, ETC. MOST STORM DRAIN PIPING IS SHALLOW AND WILL BE IN CONFLICT WITH CONDUIT. ROUTE CONDUIT UNDER STORM DRAIN PIPING. REPLACE EXISTING CURB, GUTTER, SIDEWALK, GRASS, ETC. WHEN TRENCHING BEYOND PROJECT LIMITS. WHERE MULTIPLE CIRCUITS ARE ROUTED TOGETHER IN THE SAME TRENCH, ROUTE ALL CONDUIT AS SHOWN ON THE PLANS AND IN AND OUT OF EACH J-BOX ALONG THE CONDUIT ROUTING.

(3) NEW TYPE 1A JUNCTION BOX. SEE DOT STANDARD DRAWING L-23, AND SEE DETAILS, SHEETS R16 THROUGH R18, FOR INFORMATION FOR J-BOXES BEING INSTALLED NEXT TO LIGHT POLES OR BEHIND GUARDRAIL. THE LID SHALL BE CAST IRON WITH THE LOGO "STREET LIGHTING" ON TOP. SEE SHEET R21 FOR J-BOX TYPE AND STATION/OFFSET INFORMATION.

4. LOCATE LIGHT POLES AND JUNCTION BOXES WHERE SHOWN AND PER STATION AND OFFSET TABLES, SHEET R21. RELOCATE CONDUIT, J-BOXES AND EQUIPMENT AS NECESSARY TO AVOID CONFLICTS WITH PIPING AND OTHER STRUCTURES.

(5) LABEL ALL CONDUIT AND CONDUCTORS AT THE NEW LOAD CENTER STATING WHERE IT IS ROUTED.

(6) PROVIDE NEW LIGHT POLES PER LIGHT POLE DETAILS ON SHEETS R15 THROUGH R19. THE LUMINAIRES SHALL BE 250W HPS WITH A FULL CUTOFF, TYPE III DISTRIBUTION. THE LUMINAIRE SHALL BE A GE. NO. MDCA25S5M2FMC32 OR APPROVED EQUAL. SEE SHEET R21 FOR LUMINIARE MOUNTING HEIGHT, MAST ARM LENGTH, POLE BASE ELEVATION, AND LIGHT POLE STATION/OFFSET INFORMATION.

(7) POWER THE NEW LIGHT POLES FROM NEW LOAD CENTER NO. 1 AS SHOWN. PROVIDE DOUBLE FUSE CONNECTOR KITS WITH FUSES IN THE BASE OF EACH POLE. THE FUSE CONNECTOR KITS SHALL BE SEC NO. 1791-DF OR EQUAL. THE FUSES SHALL BE BUSS KTK-5 FAST ACTING FERRULE TYPE OR APPROVED EQUAL. COORDINATE WITH POWER UTILITY TO PROVIDE A 480V SINGLE PHASE SERVICE TO THE NEW LOAD CENTER AND PAY UTILITY FOR THEIR CHARGES. SEE LOAD CENTER DETAILS, SHEET R22 AND DOT STANDARD DRAWINGS L-24 & L-25.

(8) NEW 100W, HPS LUMINAIRE PENDANT MOUNTED TO BOTTOM OF BRIDGE DECK. KIM PGL3 DOUBLE ROW SYSTEM OR EQUAL. LUMINAIRE SHALL BE POWDER COATED DIE-CAST ALUMINUM. PROVIDE WITH 480V BALLAST, DOUBLE FUSING, S.S. MOUNTING HARDWARE, LOUVER MODULES PER DETAIL ON SHEET R20, AND BALANCED PENDANT JUNCTION BOX. USE WIDE DISTRIBUTION OPTICS FOR SUNNY POINT UNDERCROSSING AND THE NARROW OPTICS FOR LEMON VALLEY UNDERCROSSING. COORDINATE FIXTURE OPTICS WITH ENGINEER FOR APPROVAL PRIOR TO ORDERING. FEED WITH SURFACE MOUNTED CONDUIT. SEE DETAILS, SHEET R20.

IF A SUBSTITUTE LUMINAIRE IS SUBMITTED DURING THE SUBMITTAL PHASE OF THE PROJECT, PROVIDE IES FILES AND CATALOG CUT SHEETS OF THE LUMINAIRE. EQUIVALENT PHOTOMETRIC PERFORMANCE IS REQUIRED AND WILL BE VERIFIED BY ENGINEER PRIOR TO APPROVING A SUBSTITUTE. THE SPECIFIED LUMINAIRE HAS VERY PRECISE OPTICS THAT ARE USED TO LIGHT THE ROADWAY WITHOUT CREATING GLARE TO DRIVERS, ADJACENT PROPERTY OWNERS, OR PEDESTRIANS. THE LUMINAIRE ALSO WASHES THE CEILING AND WALLS OF THE UNDERCROSSING.

(9) NEW ENCLOSURE MOUNTED TO ABUTMENT. ROUTE CONDUIT THAT FEEDS UNDERCROSSING LIGHTING UNDERGROUND FROM TYPE 1A JUNCTION BOX UP BEHIND CONCRETE RETAINING WALL. STUB CONDUIT OUT OF GROUND AT BRIDGE ABUTMENT. SECURE CONDUIT TO ABUTMENT WITH UNISTRUT. TERMINATE CONDUIT IN ENCLOSURE MOUNTED TO ABUTMENT. ENCLOSURE SHALL BE NEMA 4X 12"X12"X6" S.S. WITH HINGED DOOR MOUNTED ON UNISTRUT TO BRIDGE ABUTMENT. HOFFMAN SS TYPE 4X ENCLOSURE A1212CHNFSS6 OR EQUAL. PROVIDE WITH A 1/2" DRAIN HOLE. SECURE UNISTRUT TO ABUTMENT WITH EXPANSION BOLTS. FEED UNDERCROSSING LUMINAIRES FROM ENCLOSURE. SEE DETAILS, SHEET R20.

NOTES CONTINUED (APPLICABLE TO SHEETS R5 THROUGH R14):

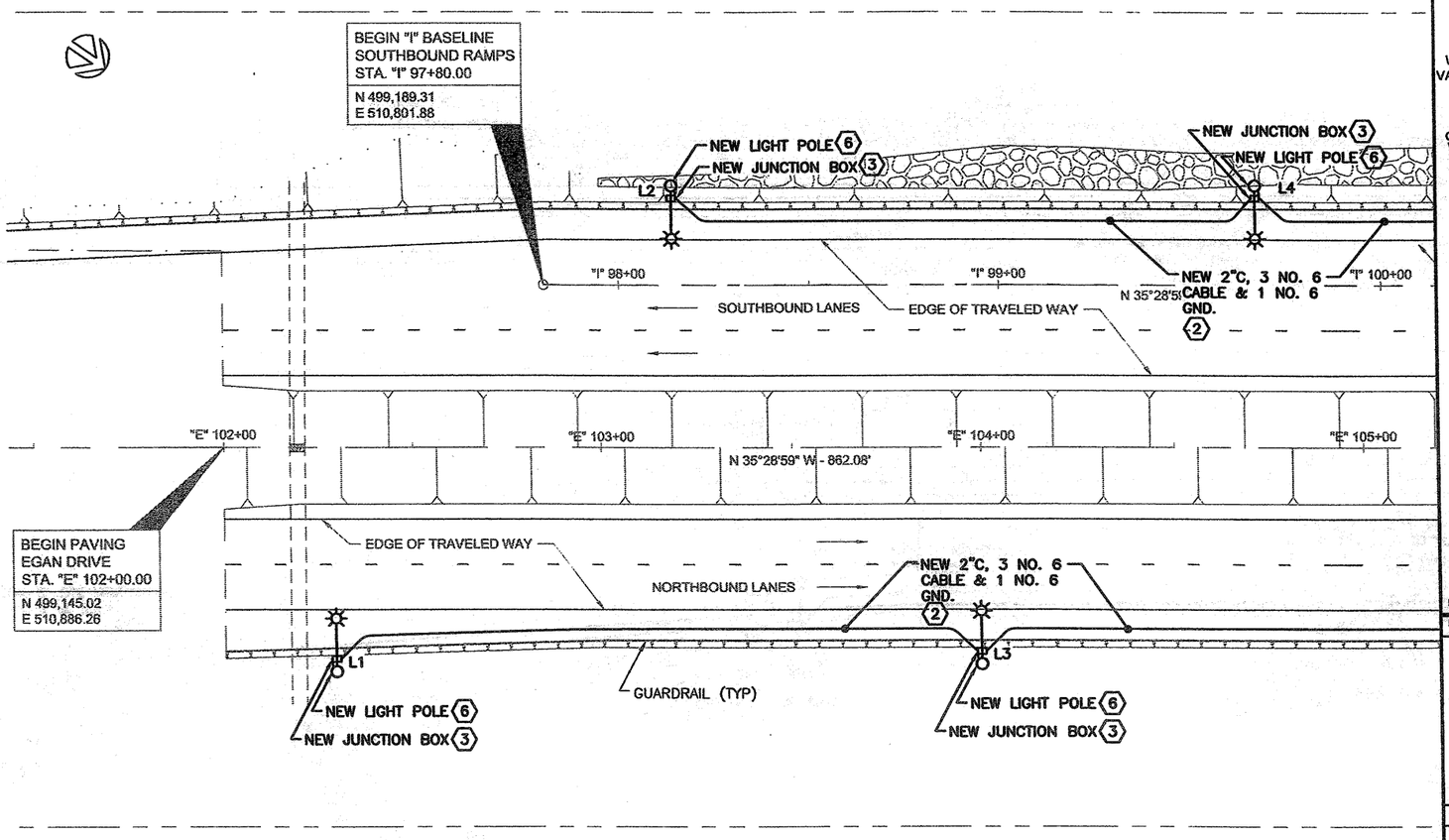
(10) ROUTE CONDUIT BETWEEN LIGHT POLES ON EACH SIDE OF BRIDGE. ROUTE CONDUIT FROM JUNCTION BOX AT LIGHT POLE THROUGH 8" UTILITY DUCT THROUGH BRIDGE ABUTMENT. CONDUIT WITHIN 10' OF APPROACH SLAB SHALL BE GRS. SEE BRIDGE DRAWINGS FOR DETAILS OF UTILITY DUCT LOCATION. PROVIDE A NEMA 4X 316L STAINLESS STEEL ENCLOSURE MOUNTED TO THE BOTTOM OF THE BRIDGE DECK. ENCLOSURE SHALL BE 12"H X 12"W X 6"D. HOFFMAN SS TYPE 4X ENCLOSURE A1212CHNFSS6 OR EQUAL. PROVIDE ENCLOSURE WITH A 1/2" DRAIN HOLE. SECURE ENCLOSURE TO UNISTRUT MOUNTED TO BRIDGE DECK WITH EXPANSION BOLTS. SEE LIGHT POLE CONDUIT TRANSITION AT UNDERCROSSING DETAIL, SHEET R20.

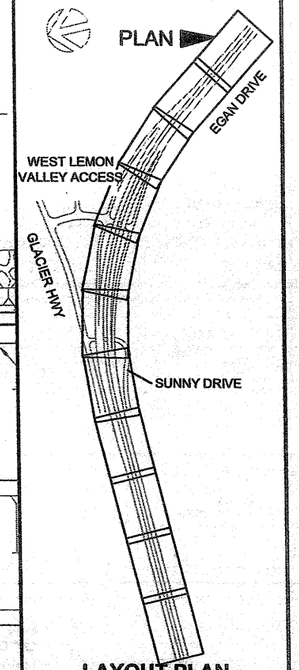
(11) NEW GRS CONDUIT. SECURE CONDUIT TO UNISTRUT. USE EXPANSION BOLTS TO SECURE UNISTRUT TO BRIDGE DECK. TERMINATE CONDUIT IN ENCLOSURE MOUNTED AT EACH END OF THE BRIDGE. SEE LIGHT POLE CONDUIT TRANSITION AT UNDERCROSSING DETAIL, SHEET R20, AND SEE NOTE 10 FOR ENCLOSURE INFORMATION.

(12) NEW 2"C, 3 NO. 8 & 1 NO. 10 GND. USE TWO CONDUCTORS FOR POWER AND ONE AS A SPARE. ROUTE UNDERGROUND FROM TYPE 1A J-BOX TO NEW ENCLOSURE. SEE NOTE 9, THIS SHEET, AND ENCLOSURE MOUNTING DETAILS, SHEET R20.

(13) ROUTE CONDUIT FROM LOAD CENTER TO UTILITY POLE AND STUB CONDUIT 10' UP UTILITY POLE. PROVIDE STANDOFFS TO SECURE CONDUIT TO UTILITY POLE. USE GRS CONDUIT WHEN WITHIN 10' OF THE LOAD CENTER AND WITHIN 10' OF THE UTILITY POLE.

14. PROVIDE TEMPORARY LIGHTING AT TEMPORARY INTERSECTIONS TO MEET NATIONAL LIGHTING STANDARDS. REUSE EXISTING LIGHT POLES, LUMINAIRES, PHOTO CELLS, AND CONTACTORS IF POSSIBLE, OTHERWISE PROVIDE NEW EQUIPMENT. PERFORM ALL WORK NECESSARY TO PROVIDE A WORKING TEMPORARY LIGHTING SYSTEM. DIRECT BURY CABLE MAY BE USED FOR TEMPORATY LIGHTING. COORDINATE LOCATION OF TEMPORARY LIGHTING WITH ENGINEER.





LAYOUT PLAN
KEY MAP

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PREPARED BY: MORRIS ENGINEERING
DESIGNED BY: MGM
CHECKED BY: MGM
DRAWN BY: NKG

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431
Illumination Plan - New

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R5	269

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

MENDENHALL WETLANDS STATE GAME REFUGE

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L4

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L6

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L8

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L10

"I" 100+00

"I" 101+00

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

"I" 102+00

"I" 103+00

PC = "I" 103+43.80

N 35°28'59" W - 563.80'

"I" 104+00

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

"I" 105+00

EDGE OF TRAVELED WAY

SOUTHBOUND LANES

PC = "E" 108+62.08

"E" 105+00

"E" 106+00

"E" 107+00

N 35°28'59" W - 862.08'

"E" 108+00

"E" 109+00

"E" 110+00

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

NORTHBOUND LANES

EDGE OF TRAVELED WAY

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

"O" 101+00

N 31°28'59" W - 196.38'

PC = "O" 101

L5

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

L7

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

L9

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

BEGIN "O" BASELINE
NORTHBOUND RAMPS
STA. "O" 100+00.00

N 499,709.11
E 510,536.96

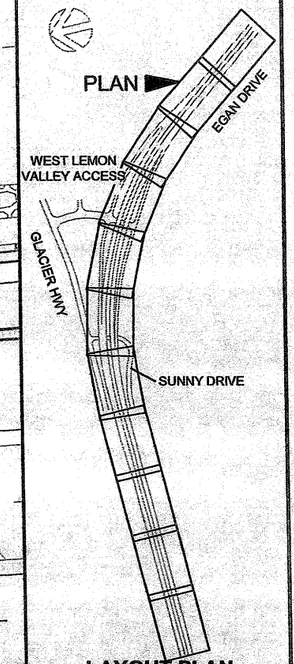
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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PLAN



LAYOUT PLAN KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

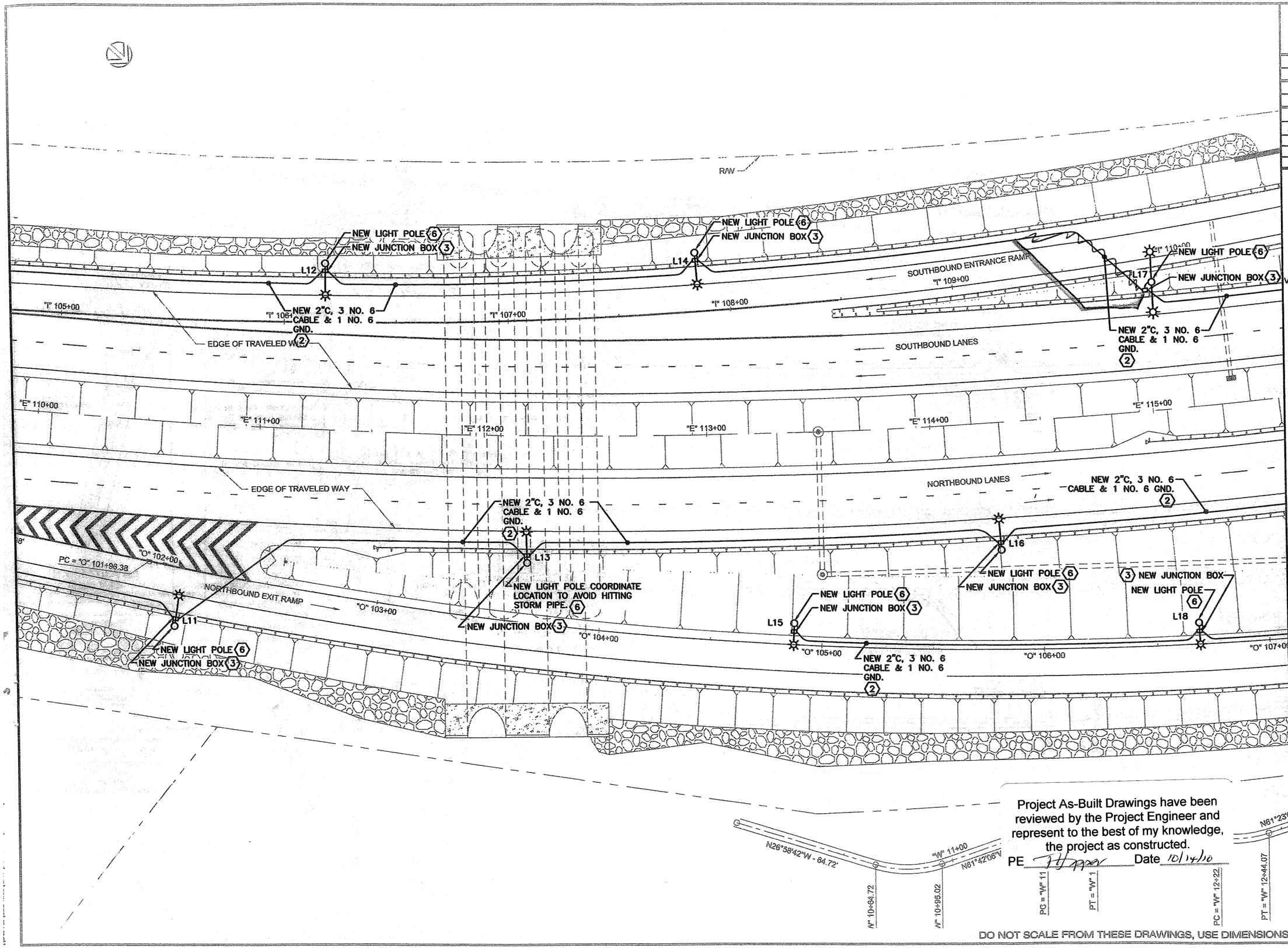
DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Illumination Plan - New

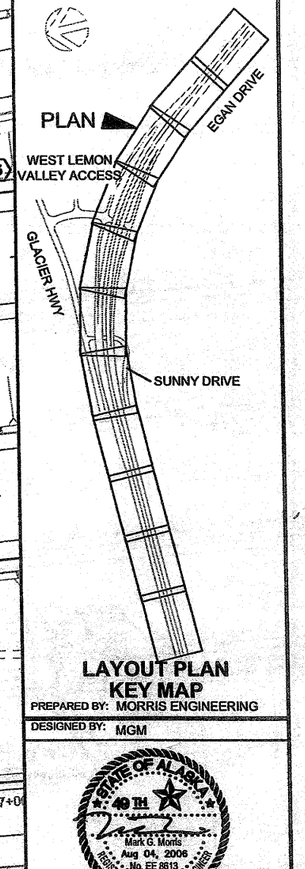
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ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R6	269



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LAYOUT PLAN KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH — Mark G. Morris — Aug. 04, 2006 — No. EE 8813 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Illumination Plan - New

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

PE _____ Date 10/14/10

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R7	269

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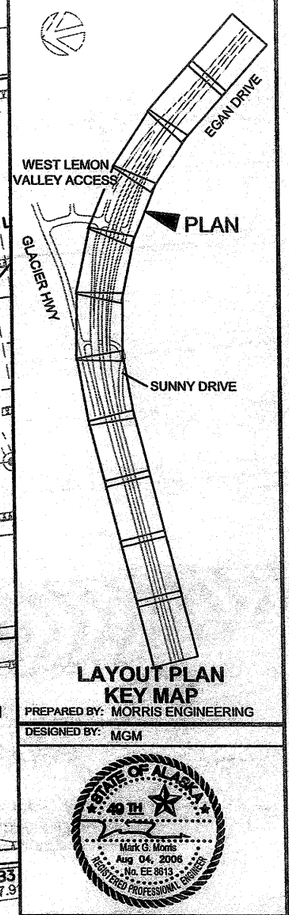
RETAINING WALL "A"
MENDENHALL WETLANDS STATE GAME REFUGE
R/W
SOUTHBOUND ENTRANCE RAMP
SOUTHBOUND LANES
EDGE OF TRAVELED WAY
NORTHBOUND LANES
EDGE OF TRAVELED WAY
PT = "I" 112+13.12
EQUATION POINT
STA. "I" 114+60.23
STA. "G" 17+01.61
END "G" BASELINE
WEST LEMON VALLEY ACCESS
STA. "G" 17+01.61
STA. "I" 114+60.23
N 500,359.80
E 569,627.60
"I" 110+00
"I" 111+00
"I" 112+00
"I" 113+00
"I" 114+00
"I" 115+00
"I" 17+00
"E" 116+00
"E" 117+00
"E" 118+00
"E" 119+00
120+00
"O" 107+00
"O" 108+00
"O" 109+00
"O" 110+00
"O" 111+00
"O" 112+00
PT = "O" 110+67.17
PC = "O" 112+57.9
"G" 15+10
"G" 14+97.03
"G" 14+09.03
"G" 11+10.03
N 59°12'05" W - 247.11'
N 59°12'05" W - 190.73'
S 30°47'55" W - 214.47'
N61°23'01"W - 26.10'
"W" 13+00
N35°03'...
2.17
15
NEW LIGHT POLE. ADJUST LIGHT BASE IN FIELD TO AVOID STORM DRAIN PIPE. COORDINATE WITH CONTRACTOR INSTALLING PIPE. (6)
NEW (2) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
CKT B1
CKT B10
CKT B3
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
NEW 1"C, 3 NO. 8 & 1 NO. 10 GND. SURFACE MOUNT CONDUIT TO UNDERSIDE OF BRIDGE DECK. (11)
NEW TYPE 1A JUNCTION BOX. SPLICE CONDUCTORS IN J-BOX. USE RESIN FILLED SPLICES. (3)
SPLICE CONDUCTORS IN J-BOX. USE RESIN FILLED SPLICES.
NEW TYPE 1A JUNCTION BOX. SPLICE CONDUCTORS IN J-BOX. USE RESIN FILLED SPLICES.
L19
L20
L21
L22
L24
L25
L26
L27
L78
L77
J7
J8
J9
J1A
J1B
B1
B2
B3
B4
B0
LEMON CREEK ACCESS RD
SEE SHEET R14
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/4/10

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LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING
DESIGNED BY: MGM
CHECKED BY: MGM
DRAWN BY: NKG

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

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R8	269

STA. "I" 114+60.23
N 500,359.80
E 508,627.60

PT = "A" 13+13.16

N19°25'53"E
31.93'

R/W

MENDENHALL WETLANDS STATE GAME REFUGE

RETAINING WALL "A"

"I" 115+00

"I" 116+00

N 60°42'05" W - 330.80'

"I" 117+00

SOUTHBOUND EXIT RAMP

"I" 118+00

"I" 119+00

"I" 120+00

RETAINING WALL "B"

RETAINING WALL "E"

N 74°03'06" W - 423.53'

"O" 117+00

"O" 116+00

"O" 115+00

NORTHBOUND ENTRANCE RAMP

"O" 114+00

RETAINING WALL "F"

"E" 121+00

"E" 122+00

"E" 123+00

"E" 124+00

"E" 125+00

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

NORTHBOUND LANES

NORTHBOUND ENT

EDGE O

L28 L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40

NEW (2) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
CKT B1

NEW LIGHT POLE. COORDINATE LOCATION TO AVOID HITTING STORM PIPE. (6)
NEW JUNCTION BOX (3)

NEW LIGHT POLE (6)
NEW JUNCTION BOX
(3)

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

NEW 1"C, 3 NO. 8 & 1 NO. 10 GND. SURFACE MOUNT CONDUIT TO UNDERSIDE OF BRIDGE DECK.

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

CKT B1, B10

CKT B2

CKT B4

CKT B3

(9) (10) (11) (12)

EQUATION POINT
BK. "O" 111+70.39
AH. "G" 14+97.03

C = "O" 112+57.91

PT = "O" 114+92.99

NEW (2) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

NEW

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L42
CKT B1
120+00
RETAINING WALL "B"
"I" 121+00
NEW (2) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
CKT B1, B10
SOUTHBOUND EXIT RAMP
"I" 122+00
CKT B5
CKT B2
J2
J3
J4
EDGE OF TRAVELED WAY
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
SOUTHBOUND LANES
"E" 126+00
"E" 127+00
"E" 128+00
NEW TYPE 1A J-BOX. ROUTE CONDUIT TO MISS GUARDRAIL POSTS. COORDINATE W/ GUARDRAIL INSTALLATION. LOCATE J-BOX BETWEEN GUARDRAIL POSTS (TYP-3). (3)
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L44
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
TRANSITION TO UNDER BRIDGE (10)
PCC = "I" 11+04.44
PRC = "I" 11+33.64
NEW JUNCTION BOX (3)
NEW LIGHT POLE (6)
CKT B7
L68
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
NEW TYPE 1A JUNCTION BOX. SPLICE CONDUCTORS IN J-BOX. USE RESIN FILLED SPLICES. (3)
J6B
B5
B6
CKT B9
NEW 1"C, 3 NO. 8 & 1 NO. 10 GND. SURFACE MOUNT CONDUIT TO ABUTMENT WALL THEN TO UNDERSIDE OF BRIDGE DECK. SEE DETAILS, SHEET R-20.
NEW (2) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
"E" 131+00
NEW (6) LIGHT POLE
NEW JUNCTION BOX (3)
L69
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
SUNNY POINT RD
"S" 13+00
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L46
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
27°16" W - 299.7
EDGE OF TRAVELED WAY
RETAINING WALL "E"
NORTHBOUND LANES
NEW (4) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (CKTS B1,B2,B5,B10) (2)
NORTHBOUND ENTRANCE RAMP
"O" 118+00
NEW (2) 2"C, 3 NO. 6 & 1 NO. 6 GND CABLE & 1 NO. 6 GND. (2)
PC = "O" 119+16.51
CKT B3
L41
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND (CKT B4).
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND (CKT B3)
3 NO. 12 & 1 NO. 10 GND (PE CELL)
"O" 120+00
TRANSITION TO UNDER BRIDGE (10)
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
CKT B6
J5B
J5A
J5C
NEW TYPE 1A J-BOX. ROUTE CONDUIT TO MISS GUARDRAIL POSTS. COORDINATE W/ GUARDRAIL INSTALLATION. LOCATE J-BOX BETWEEN GUARDRAIL POSTS (TYP-3). (3)
L43
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
NEW (6) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (CKTS B1,B2,B3,B4,B5,B6,B10)
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND (CKT B3)
3 NO. 12 & 1 NO. 10 GND (PE CELL) (2)
CKTS B7,B9
BOTH CABLES SHARE CONDUIT
NEW TYPE 1 LOAD CENTER, NO. 1. SEE SHEET R22 AND DOT STANDARD DRAWING L-24 & L-25 FOR DETAILS. COORDINATE LOCATION WITH ENGINEER. (5) (7)
NEW 4"C, BY CONTRACTOR, CONDUCTORS BY UTILITY. (13)
EXISTING LUMINAIRE MOUNTED TO UTILITY POLE (TYP-2 THIS SHEET)
"O" 121+00
PC = "O" 121+71.90
NEW TYPE 1A JUNCTION BOX. SPLICE CONDUCTORS IN J-BOX. USE RESIN FILLED SPLICES. (3)
B7
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (11)
NEW (2) 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
J6A
B8
CKT B9
"O" 122+00
PVC ENCASED IN CONCRETE
TRANSITION FROM PVC TO GRS (TYP OF 6 LIGHT POLES MOUNTED TO RETAINING WALL "D")
NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
"O" 123+00
L45
RETAINING WALL "D".
NEW LIGHT POLE MOUNTED ON TOP OF RETAINING WALL "D". SEE DETAIL SHEET R19. (TYP-6)
L67
CKT B7
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
"I" 318+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE TH Date 10/14/10

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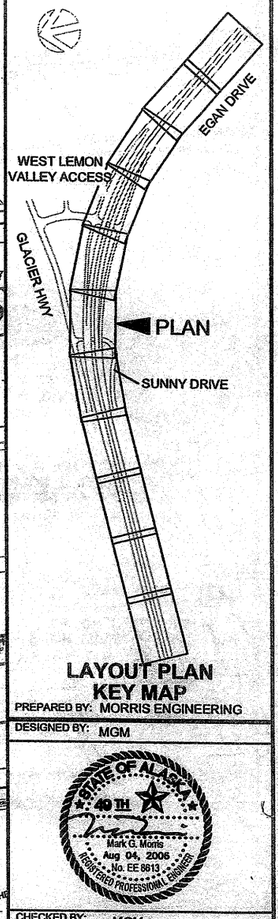
\\Shared\cad files\CADD\101 RWY\37 Sunny Point Intersection\Sunny Illum Plan New.dgn 10/14/2010 1:24:51 PM

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ATTACHMENT NUMBER

RECORD OF REVISIONS

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LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8813
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Illumination Plan - New

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NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L69
"S" 14+00
NEW 2°C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
PRC = "S" 14+51.03
"S" 15+00
L70
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
"S" 16+00 SUNNY POINT RD
L71
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
NEW 2°C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
NEW UTILITY CONDUIT. SEE SHEETS F7–F9.
END "S" BASELINE
SUNNY DRIVE
STA. "S" 18+91.00
N 500,738.38
E 508,155.52
L72
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
"S" 18+00
SUNNY PT ROAD
L47
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
N 79°27'16" W - 200.70'
NEW 2°C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
"I" 126+00
SOUTHBOUND EXIT RAMP
"I" 127+00
SOUTHBOUND LANES
EDGE OF TRAVELED WAY
END "I" BASELINE
SOUTHBOUND RAMPS
STA. "I" 127+12.66
N 500,787.50
E 508,462.37
L50
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L52
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
RETAINING WALL "C"
NEW 2°C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
S 88°59'05" W - 2,179.39'
"E" 131+00
"E" 132+00
"E" 133+00
"E" 134+00
"E" 135+00
"E" 136+00
NORTHBOUND LANES
EDGE OF TRAVELED WAY
PT = "O" 125+82.23
"O" 123+00
PVC ENCASED IN CONCRETE WITH RIGID ELBOS
NEW 2°C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
"O" 124+00
"O" 125+00
NORTHBOUND ENTRANCE RAMP
"O" 126+00
NEW 2°C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)
L51
RETAINING WALL "D"
"O" 128+00
S 88°59'05" W - 490.26'
L48
NEW LIGHT POLE (6)
L49
NEW LIGHT POLE (6)
NEW LIGHT POLE (6)
RETAINING WALL "D"
EXISTING UTILITY POLE (TYP)
"L" 319+00
"L" 320+00
"L" 323+00
"L" 324+

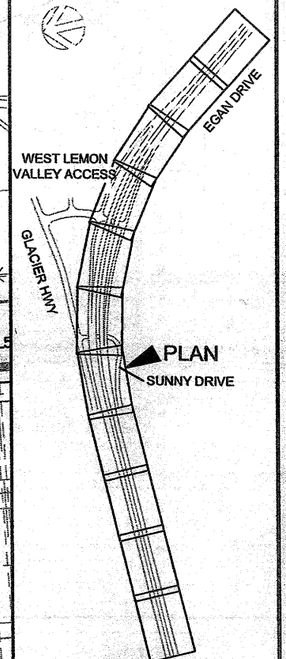
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49TH
Mark G. Morris
Aug 04, 2006
No. EE 8813
REGISTERED PROFESSIONAL ENGINEER

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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NEW UTILITY CONDUIT.
SEE SHEETS F7–F9.

SUNNY DRIVE

RETAINING WALL "C"

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L53

NEW 2"C, 3 NO. 6
CABLE & 1 NO. 6
GND.
(2)

CONCRETE BARRIER (TYP)
SOUTHBOUND LANES

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L55

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)
L57

L59

NEW 2"C, 3 NO. 6
CABLE & 1 NO. 6
GND.
(2)

EDGE OF TRAVELED WAY

"E" 136+00
"E" 137+00
"E" 138+00
"E" 139+00
"E" 140+00
"E" 141+00

S 88°59'05" W - 2,179.39'

END "O" BASELINE
NORTHBOUND RAMPS
STA. "O" 130+72.49
N 500,874.67
E 507,888.05

S 88°59'05" W - 490.26'

NEW 2"C, 3 NO. 6 CABLE & 1
NO. 6 GND.
(2)

NORTHBOUND LANES
NORTHBOUND ENTRANCE RAMP
"O" 130+00

EDGE OF TRAVELED WAY

NEW 2"C, 3 NO. 6 CABLE & 1
NO. 6 GND.
(2)

L54
NEW LIGHT POLE (6)

RETAINING WALL "D"

L56
NEW LIGHT POLE (6)

RETAINING WALL "D"

L58
NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

EXISTING UTILITY POLE (TYP)

"L" 324+00
"L" 325+00
"L" 326+00
PC "L" STA=326+35.27
"L" 327+00
"L" 328+00
"L" 329+00
PT "L" STA=328+64.47

"L"C/L CURVE DATA
DELTA=01°08'46"
R=11,459.16'
L=229.20'
T=114.60'

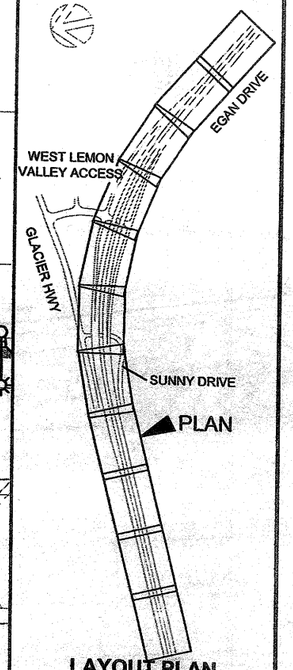
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DESIGNED BY: MGM

STATE OF ALASKA
49 TH
Mark G. Morris
Aug 04, 2006
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DRAWN BY: NKG

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NEW UTILITY CONDUIT.
SEE SHEETS F7–F9.

SUNNY DRIVE

L59 NEW LIGHT POLE (6) NEW JUNCTION BOX (3)

L61 NEW LIGHT POLE (6) NEW JUNCTION BOX (3)

L63 NEW LIGHT POLE (6) NEW JUNCTION BOX (3)

L66 (3) NEW JUNCTION BOX (6) NEW LIGHT POLE

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

SOUTHBOUND LANES

EDGE OF TRAVELED WAY

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

CONCRETE BARRIER (TYP)

"E" 142+00 "E" 143+00 "E" 144+00 "E" 145+00 "E" 146+00

S 86°59'05" W - 2,179.39'

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

NORTHBOUND LANES

EDGE OF TRAVELED WAY

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

L60 NEW LIGHT POLE (6) NEW JUNCTION BOX (3)

L62 NEW LIGHT POLE (6) NEW JUNCTION BOX (3)

L64 NEW LIGHT POLE (6) NEW JUNCTION BOX (3)

L65 (3) NEW JUNCTION BOX (6) NEW LIGHT POLE

EXISTING UTILITY POLE

EXISTING UTILITY POLE (TYP)

"L" 329+00 "L" 330+00 "L" 331+00 "L" 332+00 "L" 333+00 "L" 334+00

TA=328+64.47

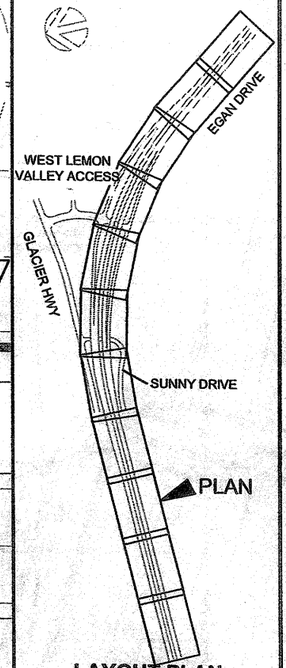
S 89°23'01" W - 913.44'

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Illumination Plan - New

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R13	269

SHEET NOTE:

1. THE EXISTING CIRCUITING SHOWN FOR THE EXISTING PARKING LOT LIGHTING IS SCHEMATIC IN NATURE AND MAY NOT REPRESENT ACTUAL CONDUIT/CONDUCTOR LOCATIONS. FIELD VERIFY FOR ACTUAL LOCATION.

NEW WALMART SITE LIGHTING BY OTHERS (TYP)

RIGHT OF WAY LINE
SAWCUT LIMITS

EXISTING LUMINAIRE MOUNTED TO EXISTING UTILITY POLE (TYP)

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

EXISTING PARKING LOT LIGHT POLE TO BE REMOVED BY OTHERS (TYP).

L74

EXISTING ABANDONED CONDUIT AND CABLE TO BE REMOVED UP TO RIGHT OF WAY LINE. COORDINATE WITH BUILDING OWNER.

W. LEMON VALLEY ACCESS ROAD

EXISTING PARKING LOT LIGHT POLE TO BE REMOVED BY OTHERS (TYP).

L76

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

"G" 12+00

"G" 13+00

ADD CONDUIT RUN

DELETE CONDUIT RUN

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

SEE "Q" SERIES SHEETS FOR SIGNAL WORK IN THIS INTERSECTION INCLUDING THE LUMINAIRE ON THE SIGNAL POLE.

EXISTING ABANDONED CONDUIT AND CABLE TO BE REMOVED. COORDINATE WITH BUILDING OWNER.

L73

EXISTING PARKING LOT LIGHT POLE TO BE REMOVED BY OTHERS (TYP).

NEW JUNCTION BOX (3)
NEW LIGHT POLE (6)

L75

NEW LIGHT POLE (6)
NEW JUNCTION BOX (3)

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

EXISTING ABANDONED CONDUIT AND CABLE TO BE REMOVED. COORDINATE WITH BUILDING OWNER.

EXISTING PARKING LOT LIGHT POLE TO BE REMOVED BY OTHERS (TYP).

NEW 2"C, 3 NO. 6 CABLE & 1 NO. 6 GND. (2)

SPLICE CONDUCTORS IN J-BOX. USE RESIN FILLED SPLICES.

EXISTING LUMINAIRE MOUNTED TO EXISTING UTILITY POLE (TYP)

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

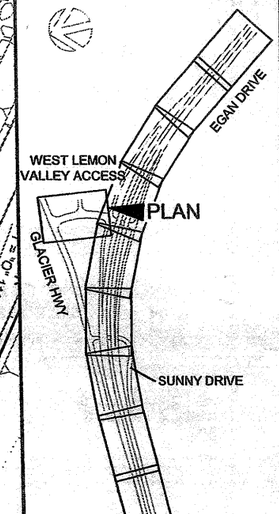
PE T Tapper Date 10/14/10

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA
40 TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Illumination Plan - New & Demolition

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R14	269

ILLUMINATION GENERAL NOTES

1. EACH NEW ELECTROLIER SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE FOUNDATION AS SHOWN IN THE POLE AND J-BOX WIRING DETAIL UNLESS NOTED OTHERWISE.

2. ALL JUNCTION BOXES TYPE PER J-BOX STATION & OFFSET TABLE, SHEET R-21. SEE STANDARD DRAWING L-23.01.

3. NEW ELECTROLIER FOUNDATIONS SHALL BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE LIFTED AND TRANSPORTED USING A DEVICE THAT DISTRIBUTES THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS. SEE SHEET R19 FOR FOUNDATION DETAIL.

4. INSTALL THE PHOTOELECTRIC CELL ON TOP OF LUMINAIRE ADJACENT TO LOAD CENTER. SEE SHEET R10 AND ELECTROLIER STATION & OFFSET TABLE, SHEET R21.

5. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 6 AWG., 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660.

6. LUMINAIRES SHALL BE 480 VOLT, 250 WATT, HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUT-OFF, TYPE III DISTRIBUTION AND SHALL BE HAVE MAGNETIC REGULATOR BALLASTS, AND HPS LAMPS WITH A 24,000 HOUR RATED LIFE.

7. NON-BREAKAWAY PORTIONS OF FOUNDATIONS SHALL NOT PROTRUDE MORE THAN 4" ABOVE ANY 5' CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.

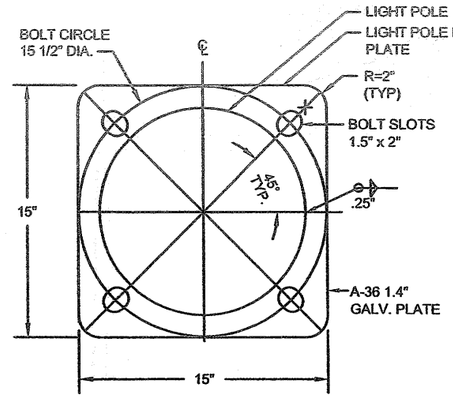
8. PROVIDE LUMINAIRE MAST ARM LENGTH PER ELECTROLIER STATION AND OFFSET TABLE, SHEET R21. THE TOP OF MANY OF THE LIGHT POLE BASES ARE NOT LEVEL WITH THE ASPHALT FINISHED GRADE. SEE BASE ELEVATIONS ON ELECTROLIER STATION AND OFFSET TABLE, SHEET R21; AND SEE ELECTROLIER ELEVATIONS, SHEETS R-16 THROUGH R-19. ADJUST THE POLE HEIGHT AS NECESSARY TO ACHIEVE THE SPECIFIED LUMINAIRE MOUNTING HEIGHT SHOWN ON THE THE ELECTROLIER STATION AND OFFSET TABLE. SEE DOT STANDARD DRAWING L-03.10 FOR ADDITIONAL LIGHT POLE INFORMATION.

9. MAXIMUM SPACING BETWEEN ALL (NEW OR OLD) JUNCTION BOXES SHALL BE 190 FEET. PROVIDE ADDITIONAL JUNCTION BOXES AS NECESSARY TO MEET THIS SPACING. THE COST TO INSTALL ADDITIONAL JUNCTION BOXES SHALL BE INCIDENTAL TO THE LIGHTING SYSTEM PAY ITEM.

10. COORDINATE WITH GENERAL CONTRACTOR TO ADJUST JUNCTION BOXES SO THAT THE TOP OF EACH JUNCTION BOX IS FLUSH WITH FINSHED GRADE.

11. PROVIDE GROUNDING BUSHING ON CONDUIT ENTERING J-BOXES, POLES, AND AS REQUIRED PER THE NEC.

12. SIZE POLE WITH MAST ARM AND LUMINAIRE AS REQUIRED TO HANDLE SUSTAINED WINDS OF 100 MPH AND GUSTS TO 120 MPH.

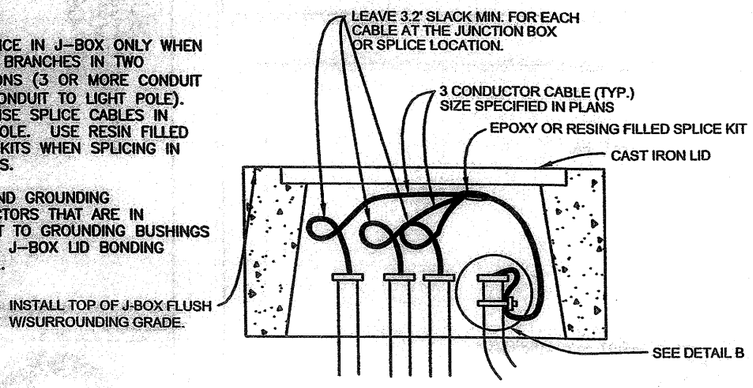


LIGHT POLE BASE DETAIL
NO SCALE

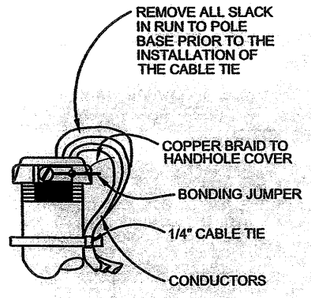
NOTES:

1. SPLICE IN J-BOX ONLY WHEN CIRCUIT BRANCHES IN TWO DIRECTIONS (3 OR MORE CONDUIT PLUS CONDUIT TO LIGHT POLE). OTHERWISE SPLICE CABLES IN LIGHT POLE. USE RESIN FILLED SPLICE KITS WHEN SPLICING IN J-BOXES.

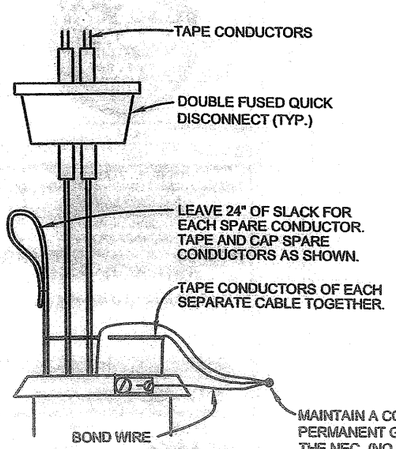
2. BOND GROUNDING CONDUCTORS THAT ARE IN CONDUIT TO GROUNDING BUSHINGS AND TO J-BOX LID BONDING JUMPER.



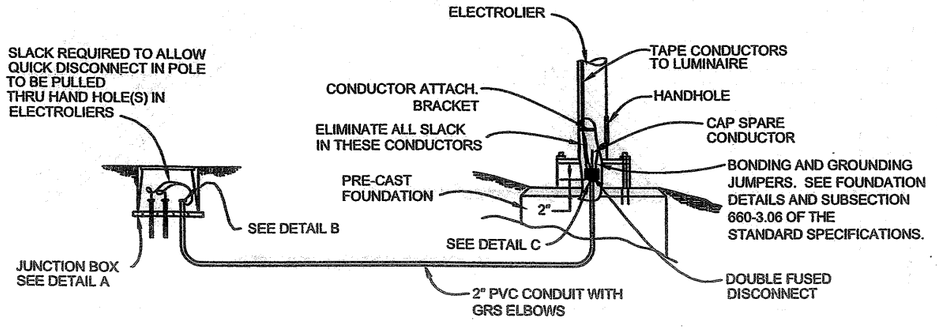
DETAIL A



DETAIL B
(IN J-BOX)



DETAIL C
(IN POLE BASE)



LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS
(BREAKAWAY COUPLINGS)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PREPARED BY: MORRIS ENGINEERING
DESIGNED BY: MGM

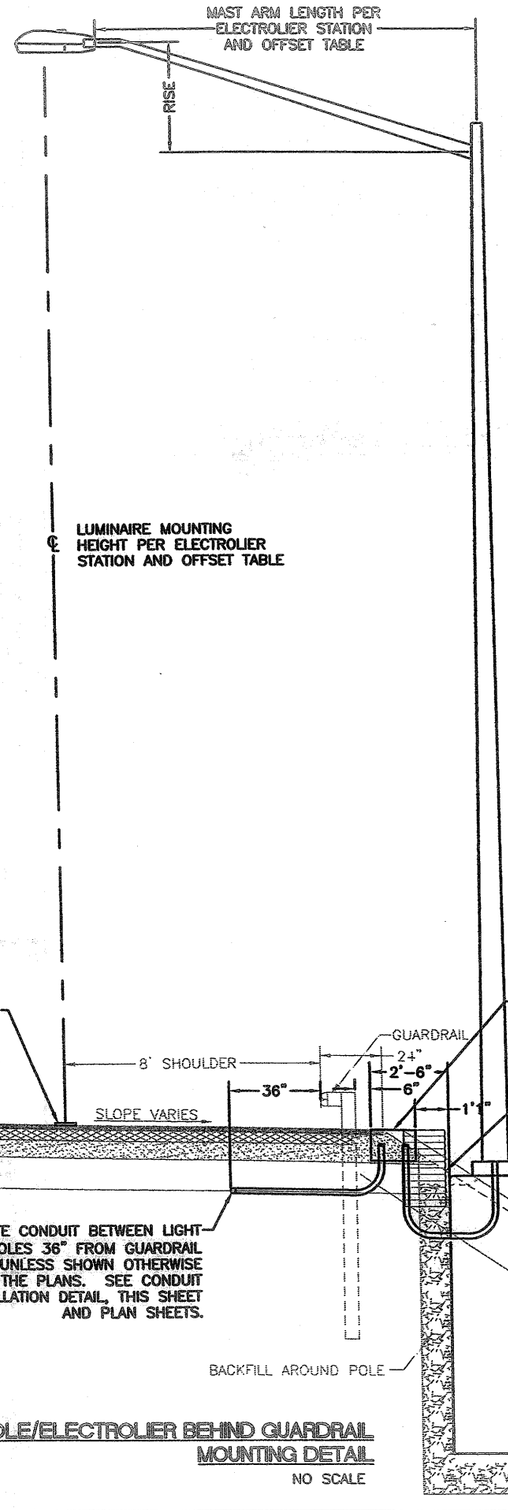
STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM
DRAWN BY: NKG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Light Pole & J-box Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R15	269



LIGHT POLE/ELECTROLIER BEHIND GUARDRAIL MOUNTING DETAIL

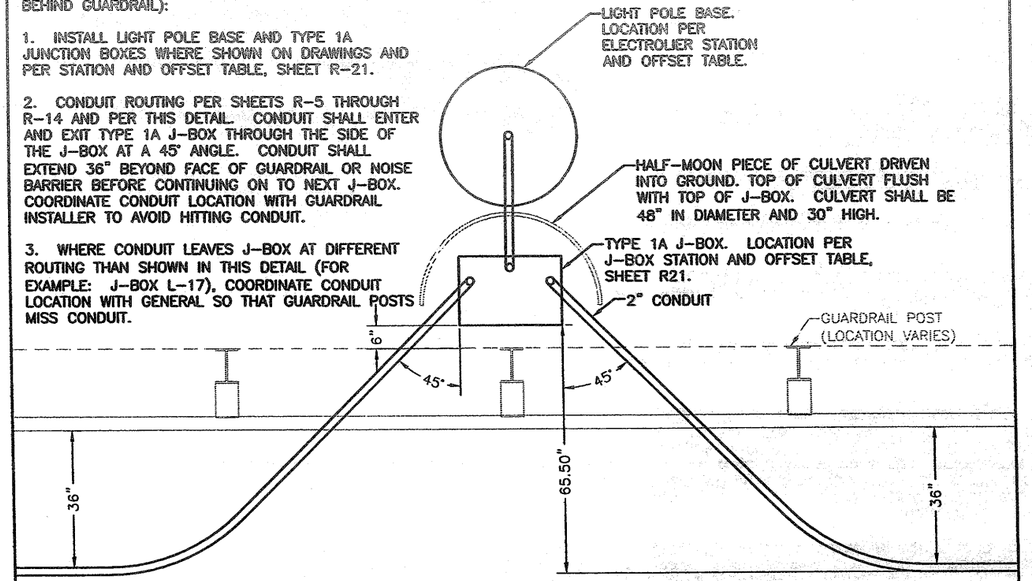
NO SCALE

NOTES (TYPICAL OF LIGHT POLES BEING INSTALLED BEHIND GUARDRAIL):

1. INSTALL LIGHT POLE BASE AND TYPE 1A JUNCTION BOXES WHERE SHOWN ON DRAWINGS AND PER STATION AND OFFSET TABLE, SHEET R-21.

2. CONDUIT ROUTING PER SHEETS R-5 THROUGH R-14 AND PER THIS DETAIL. CONDUIT SHALL ENTER AND EXIT TYPE 1A J-BOX THROUGH THE SIDE OF THE J-BOX AT A 45° ANGLE. CONDUIT SHALL EXTEND 36" BEYOND FACE OF GUARDRAIL OR NOISE BARRIER BEFORE CONTINUING ON TO NEXT J-BOX. COORDINATE CONDUIT LOCATION WITH GUARDRAIL INSTALLER TO AVOID HITTING CONDUIT.

3. WHERE CONDUIT LEAVES J-BOX AT DIFFERENT ROUTING THAN SHOWN IN THIS DETAIL (FOR EXAMPLE: J-BOX L-17), COORDINATE CONDUIT LOCATION WITH GENERAL SO THAT GUARDRAIL POSTS MISS CONDUIT.



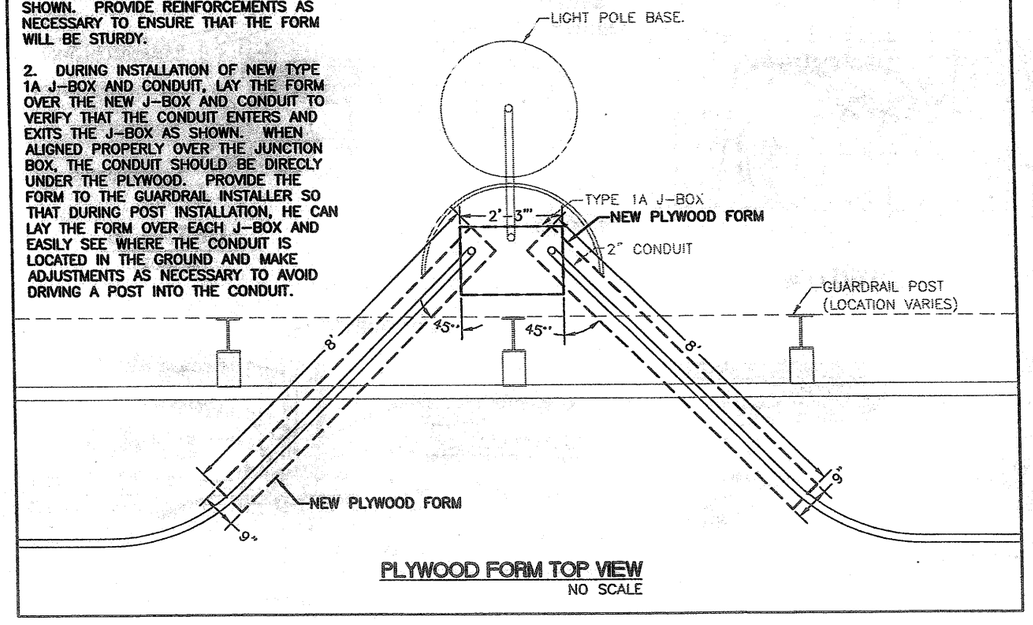
J-BOX/CONDUIT INSTALLATION DETAIL (BEHIND GUARDRAIL)

NO SCALE

NOTES:

1. PROVIDE A PLYWOOD FORM AS SHOWN. PROVIDE REINFORCEMENTS AS NECESSARY TO ENSURE THAT THE FORM WILL BE STURDY.

2. DURING INSTALLATION OF NEW TYPE 1A J-BOX AND CONDUIT, LAY THE FORM OVER THE NEW J-BOX AND CONDUIT TO VERIFY THAT THE CONDUIT ENTERS AND EXITS THE J-BOX AS SHOWN. WHEN ALIGNED PROPERLY OVER THE JUNCTION BOX, THE CONDUIT SHOULD BE DIRECLY UNDER THE PLYWOOD. PROVIDE THE FORM TO THE GUARDRAIL INSTALLER SO THAT DURING POST INSTALLATION, HE CAN LAY THE FORM OVER EACH J-BOX AND EASILY SEE WHERE THE CONDUIT IS LOCATED IN THE GROUND AND MAKE ADJUSTMENTS AS NECESSARY TO AVOID DRIVING A POST INTO THE CONDUIT.



PLYWOOD FORM TOP VIEW

NO SCALE

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH — Mark G. Morris — Aug 04, 2006 — No. EE 8613 — REGISTERED PROFESSIONAL ENGINEER

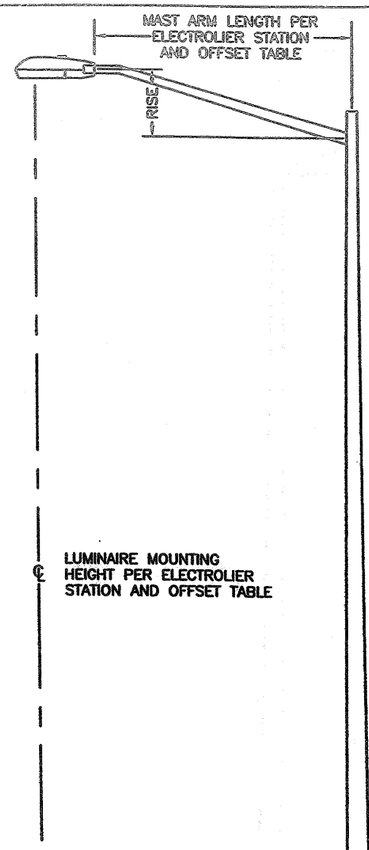
CHECKED BY: MGM

DRAWN BY: NKG

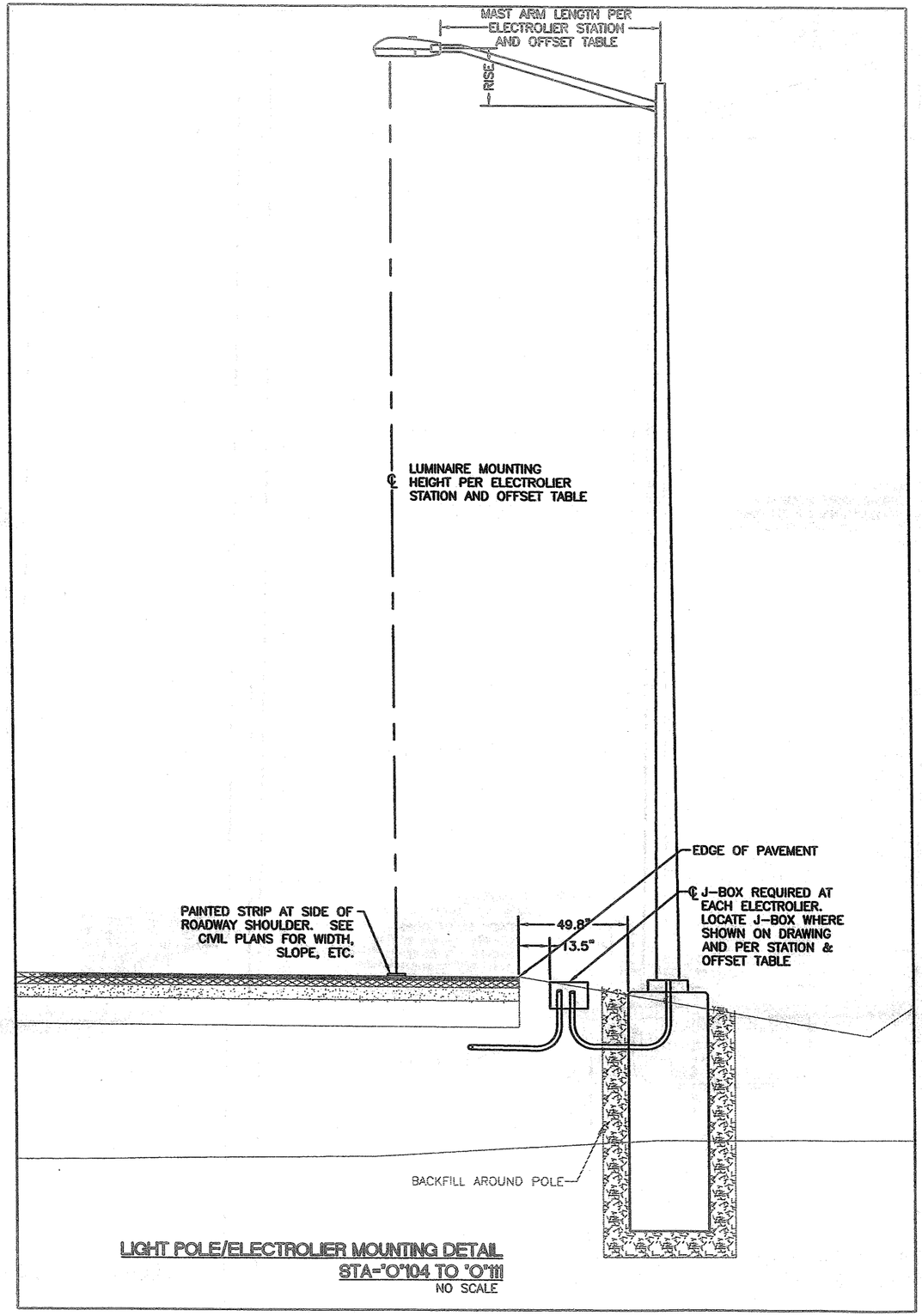
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Light Pole & J-box Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R16	269



LIGHT POLE/ELECTROLIER ON SUNNY PT ROAD
MOUNTING DETAIL
NO SCALE



LIGHT POLE/ELECTROLIER MOUNTING DETAIL
STA="O"104 TO "O"111
NO SCALE

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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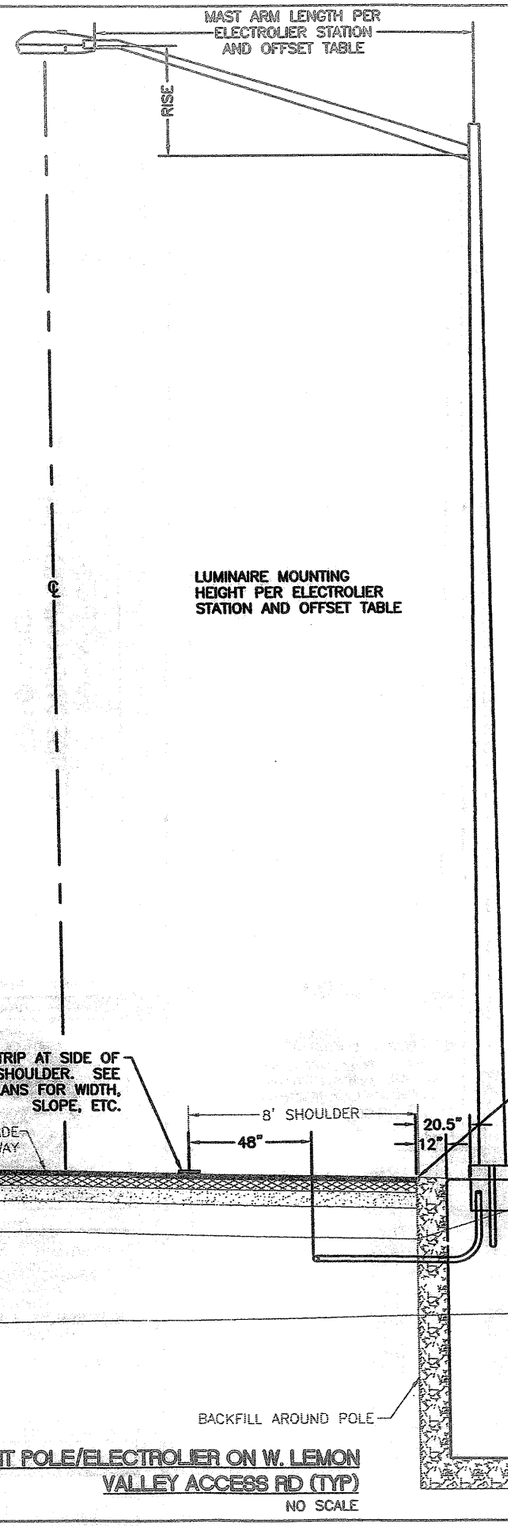
STATE OF ALASKA
49TH
Mark G. Morris
Aug. 04, 2006
No. EE 8813
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM
DRAWN BY: NKG

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
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SUNNY POINT
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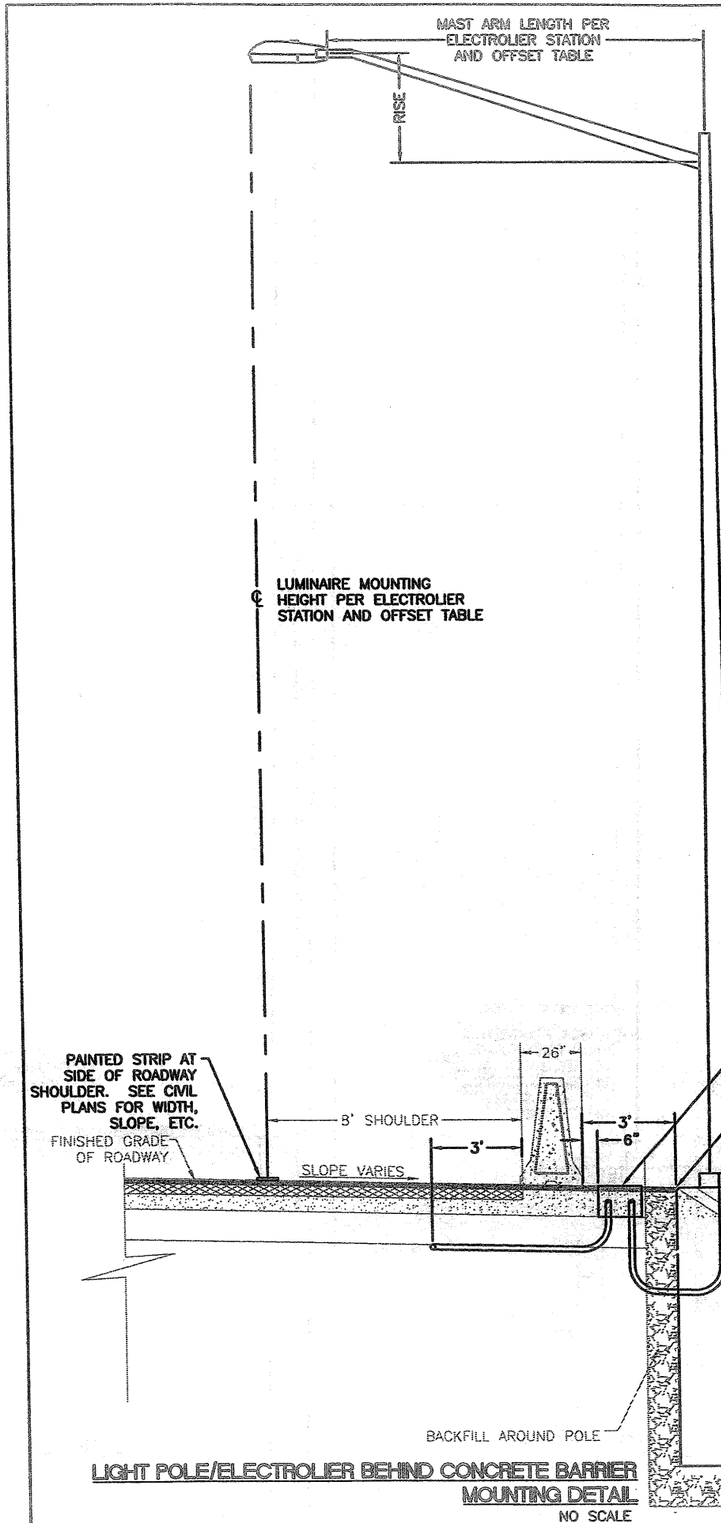
Light Pole & J-box Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R17	269



LIGHT POLE/ELECTROLIER ON W. LEMON VALLEY ACCESS RD (TYP)

NO SCALE



LIGHT POLE/ELECTROLIER BEHIND CONCRETE BARRIER MOUNTING DETAIL

NO SCALE

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SUNNY POINT INTERSECTION IMPROVEMENTS STP-093-2(31)~71431

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STATE OF ALASKA 49TH — Mark G. Morris — Aug 04, 2006 — No. EE 8613 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

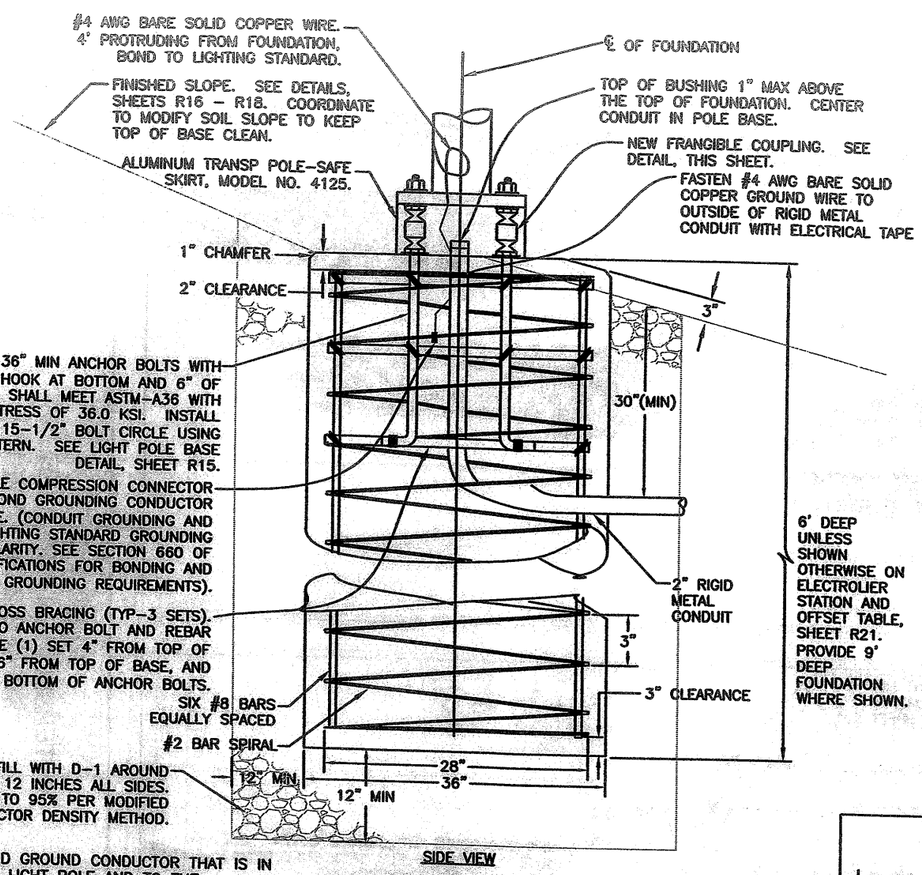
DRAWN BY: NKG

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

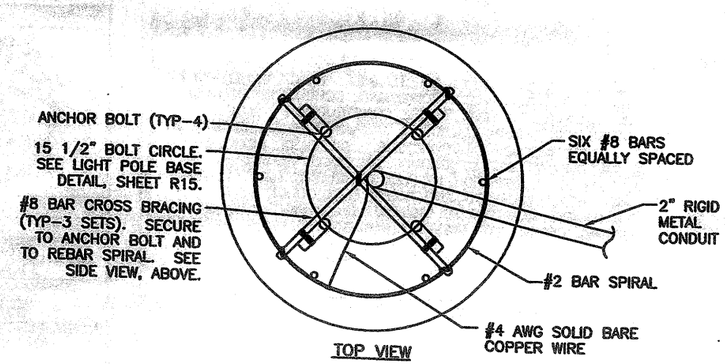
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Light Pole & J-box Details

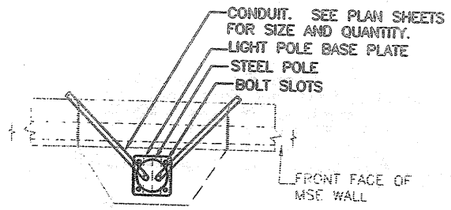
PROJECT DESIGNATION NUMBER	
STP-093-2(31)-71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R18	269



NOTE: BOND GROUND CONDUCTOR THAT IS IN CONDUIT TO LIGHT POLE AND TO THE FOUNDATION GROUNDING CONDUCTOR.



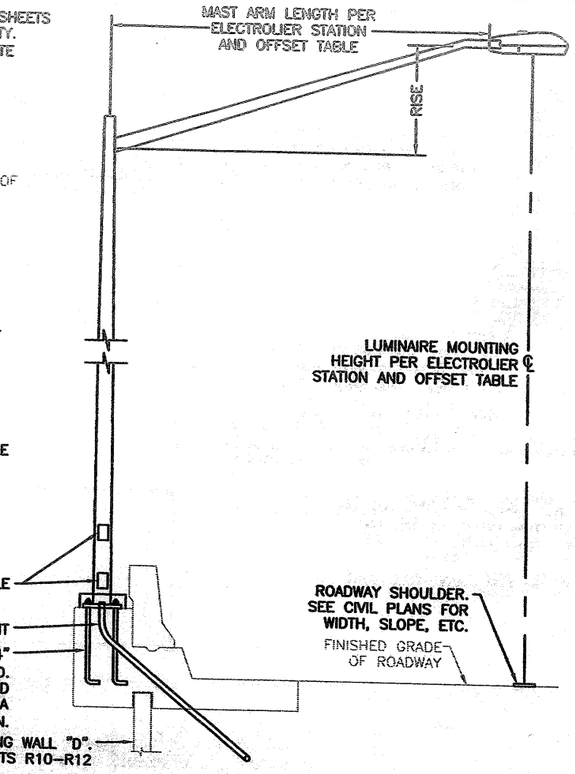
LUMINAIRE CONCRETE FOUNDATION WITH FRANGIBLE COUPLINGS
NO SCALE



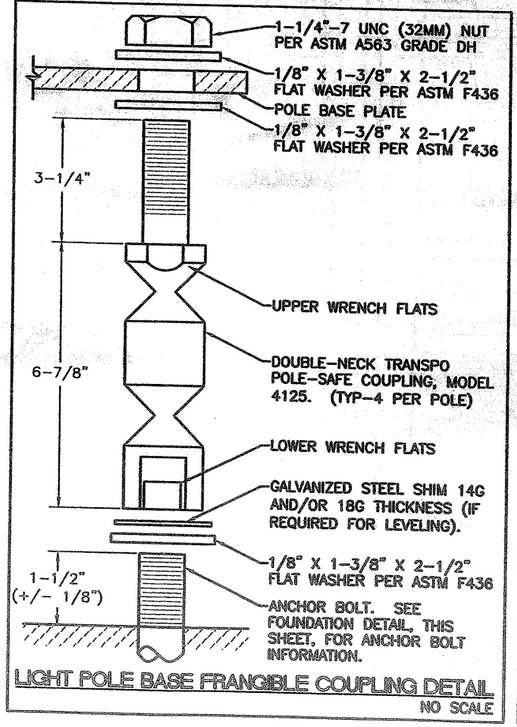
LIGHT POLE BASE TOP VIEW

NOTES:

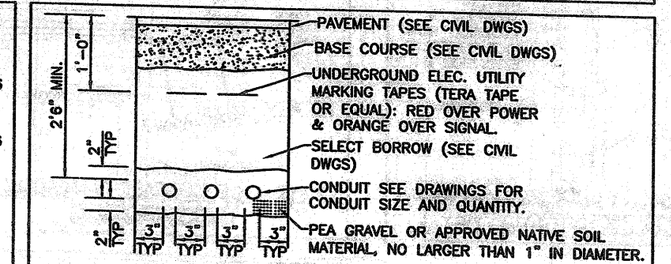
1. PULL CONDUCTORS THROUGH HANDHOLE IN BASE OF POLE. SPLICE CONDUCTORS IN BASE OF POLE.
2. BASE PLATE PER LIGHT POLE BASE DETAIL, SHEET R15.
3. PROVIDE (2) HANDHOLES IN EACH LIGHT POLE, AND HANG ACORN DISCONNECT INSIDE POLE AT TOP HANDHOLE SO THAT IT CAN BE EASILY SERVICED. THE TOP HANDHOLE SHALL BE LOCATED APPROXIMATELY 6–12" ABOVE THE TOP OF THE CONCRETE BARRIER.
4. SEE SHEET J–11 FOR BASE DETAIL.
5. PROVIDE GROUND TO REBAR IN SAME MANNER AS IN POLE FOUNDATION.



LIGHT POLE/ELECTROLIER ON RETAINING WALL D MOUNTING DETAIL
NO SCALE

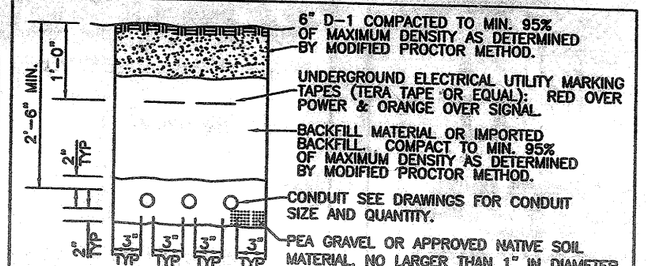


LIGHT POLE BASE FRANGIBLE COUPLING DETAIL
NO SCALE



TRENCH DETAIL – PAVED AREAS
NO SCALE

NOTE:
1. ALL DIMENSIONS ARE MINIMUM.
2. SEE CIVIL DRAWINGS FOR TYPICAL SECTIONS UNDER PAVED AREAS. PROVIDE BACKFILL (MATERIAL, COMPACTION, ETC.) PER THE CIVIL DRAWINGS.



TRENCH DETAIL – NON-PAVED AREAS
NO SCALE

NOTE:
1. ALL DIMENSIONS ARE MINIMUM.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PREPARED BY: MORRIS ENGINEERING
DESIGNED BY: MGM

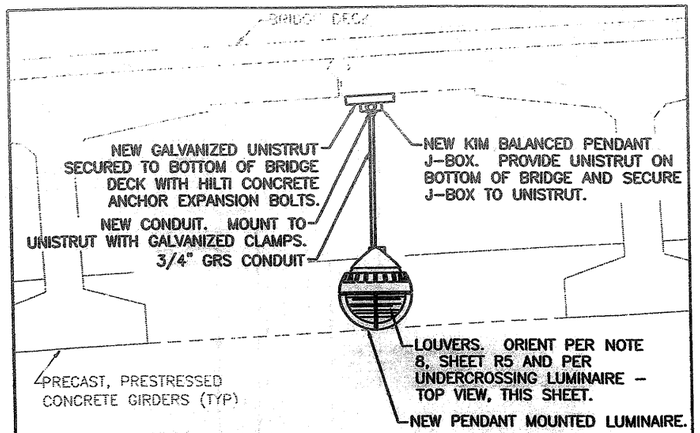
STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM
DRAWN BY: NKG

STATE OF ALASKA
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SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Light Pole & Trench Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R19	269



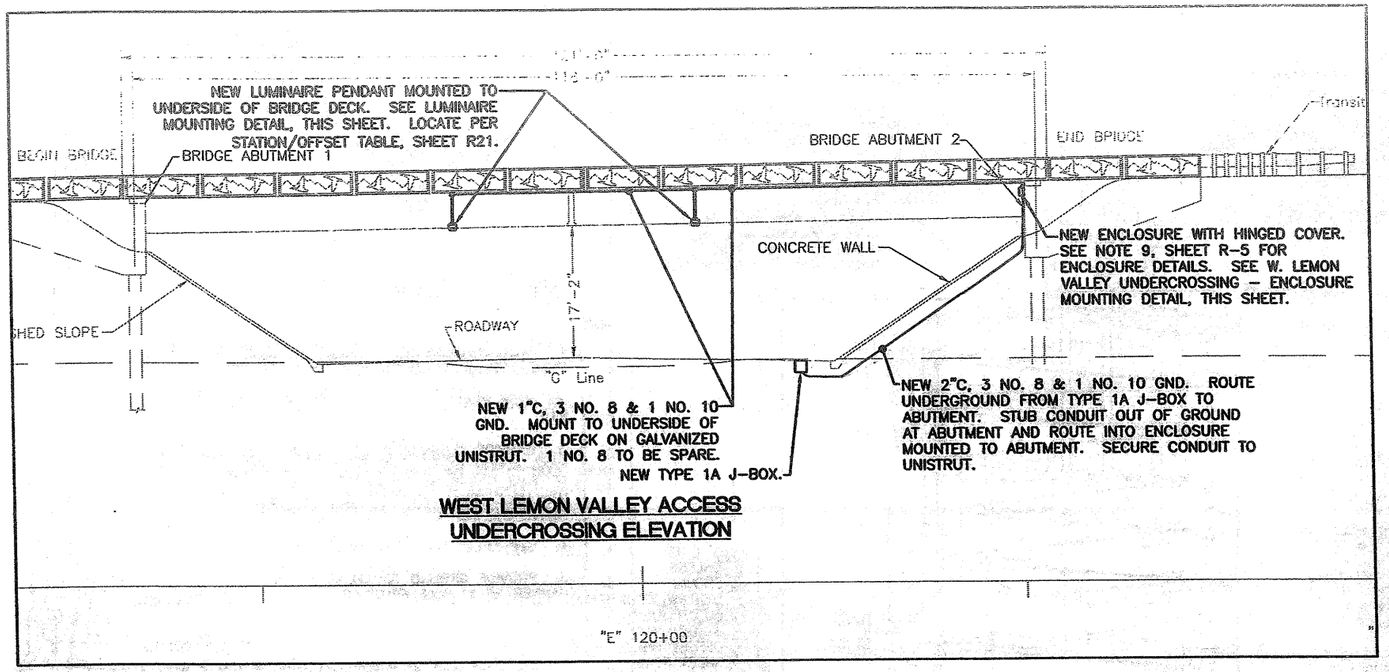
LUMINAIRE MOUNTING DETAIL FOR UNDERCROSSING LTG

NO SCALE

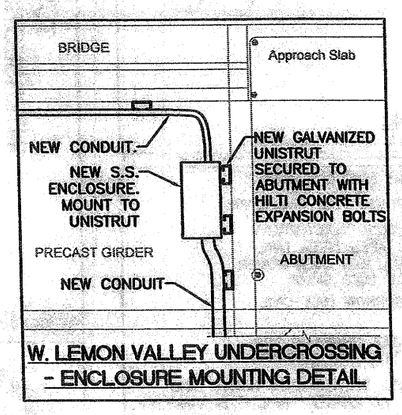
NOTE:

1. ADJUST THE LENGTH OF THE PIPE SUPPORTING THE LUMINAIRE AS NECESSARY SO THAT THE BOTTOM OF THE LENSE OF THE LUMINAIRE IS AT THE SAME HEIGHT AS THE THE BOTTOM OF THE CONCRETE GIRDERS. SEE BRIDGE DRAWINGS FOR GIRDER HEIGHT.

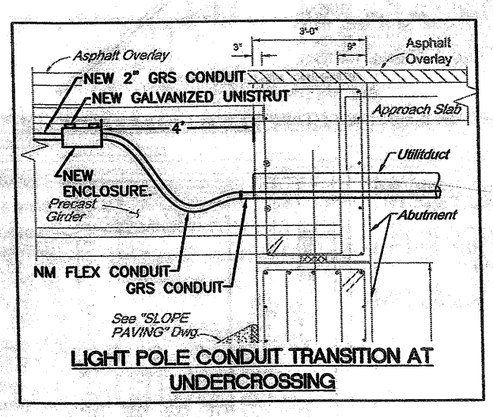
2. ADJUST LUMINAIRE MOUNTING AS NECESSARY TO ENSURE THAT LUMINAIRE HANGS STRAIGHT DOWN.



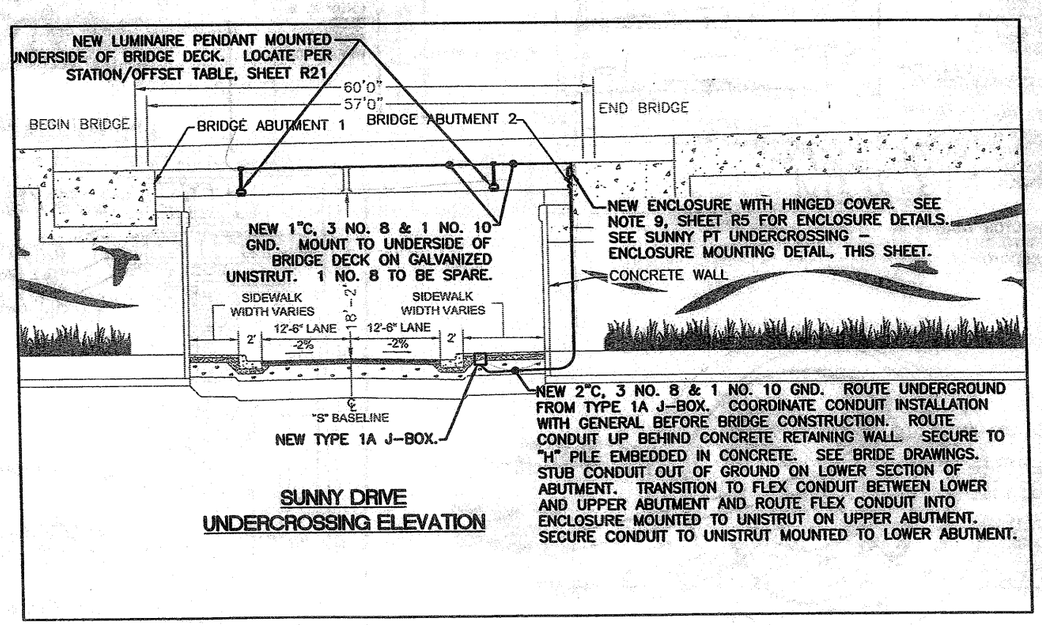
WEST LEMON VALLEY ACCESS UNDERCROSSING ELEVATION



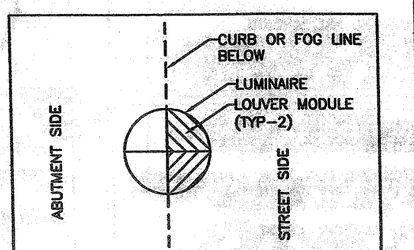
W. LEMON VALLEY UNDERCROSSING - ENCLOSURE MOUNTING DETAIL



LIGHT POLE CONDUIT TRANSITION AT UNDERCROSSING

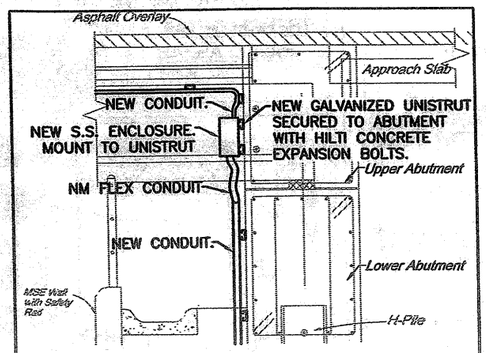


SUNNY DRIVE UNDERCROSSING ELEVATION



NOTE: ORIENT LUMINAIRE SO THAT LOUVERS ARE ON THE STREET SIDE AND THE OPEN PORTION OF THE LUMINAIRE FACES THE BRIDGE ABUTMENT.

UNDERCROSSING LUMINAIRE - TOP VIEW



SUNNY PT UNDERCROSSING - ENCLOSURE MOUNTING DETAIL

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)-71431

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH — Mark G. Morris — Aug 04, 2006 — No. EE 8913 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Under-Bridge Luminaire & Enclosure Mounting Details

PROJECT DESIGNATION NUMBER	
STP-093-2(31)-71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R20	269

ELECTROLIER SUMMARY

LUM. NO.	MAST-ARM	LUMINAIRE MOUNTING HEIGHT	STATION	OFFSET	POLE BASE ELEVATION	REMARKS
L1	12'	35'	"E"102+30	59.3' RT	24.14	
L2	12'	35'	"I"98+14	26.3' LT	24.06	
L3	12'	35'	"E"104+00	57.3' LT	24.41	
L4	12'	35'	"I"99+67	26.3' LT	24.27	
L5	12'	35'	"E"105+66	57.3' RT	24.64	
L6	12'	35'	"I"101+16	26.3' LT	24.47	
L7	12'	35'	"E"107+21	59.5' RT	24.81	
L8	12'	35'	"I"102+68	26.3' LT	24.68	
L9	12'	35'	"O"100+47	26.3' RT	26.06	
L10	12'	35'	"I"104+34	25.8' LT	25.53	
L11	12'	40'	"O"102+13	26.3' RT	29.74	TILT LUMINAIRE UP 3°, PROVIDE W/9' BASE
L12	12'	35'	"I"106+18	26.3' LT	26.16	
L13	12'	35'	"E"112+19	57.3' RT	32.49	
L14	12'	40'	"I"107+86	26.3' LT	28.92	TILT LUMINAIRE UP 3°, PROVIDE W/9' BASE
L15	8'	35'	"O"104+87	9.7' LT	33.22	
L16	12'	35'	"E"114+28	57.3' RT	37.55	
L17	12'	35'	"E"115+05	57.6' LT	35.30	(2) ARMS W/LUMINAIRES
L18	8'	35'	"O"106+69	9.7' LT	31.01	
L19	12'	35'	"E"115+89	57.3' RT	42.25	
L20	12'	35'	"E"117+21	57.5' LT	41.15	(2) ARMS W/LUMINAIRES
L21	8'	35'	"O"108-49	9.7' LT	28.61	
L22	12'	35'	"E"117+50	57.3' RT	46.31	
L24	8'	35'	"I"113+04	9.3' RT	27.35	
L25	8'	35'	"O"110+40	9.7' LT	26.21	
L26	12'	35'	"E"118+96	57.2' LT	44.72	
L27	12'	35'	"E"119+00	57.7' RT	48.99	
L28	12'	35'	"E"120+86	57.5' RT	51.66	
L29	12'	35'	"E"120+90	57.4' LT	47.31	
L30	12'	35'	"I"115+86	12.8' RT	24.11	
L31	8'	35'	"O"113+09	10.7' LT	26.12	
L32	12'	35'	"E"122+08	57.3' LT	48.32	
L33	12'	35'	"E"122+16	57.3' RT	52.72	
L34	8'	35'	"O"114+94	10.6' LT	35.33	
L35	12'	35'	"I"117+99	26.3' LT	33.49	
L36	12'	35'	"E"123+51	57.6' LT	48.68	
L37	12'	35'	"E"123+63	57.3' RT	53.16	
L38	12'	35'	"E"125+15	55.8' RT	53.97	(2) ARMS W/LUMINAIRES
L39	12'	35'	"I"119+76	26.3' LT	39.55	
L40	12'	35'	"E"125+43	57.3' LT	48.42	
L41	12'	40'	"O"118+75	26.3' RT	48.52	TILT LUMINAIRE UP 3°, PROVIDE W/9' DEEP BASE PROVIDE WITH PHOTOCELL
L42	12'	40'	"I"121+43	26.3' LT	43.25	TILT LUMINAIRE UP 3°, PROVIDE W/9' DEEP BASE
L43	12'	40'	"O"120+45	26.3' RT	50.55	TILT LUMINAIRE UP 3°, PROVIDE W/9' DEEP BASE
L44	12'	40'	"I"122+85	26.4' LT	44.15	TILT LUMINAIRE UP 3°, PROVIDE W/9' DEEP BASE
L45	12'	40'	"O"122+43	22.7' RT	51.94	TILT LUMINAIRE UP 3°, MOUNT ON RETAINING WALL "D"
L46	12'	40'	"I"124+84	26.1' LT	42.81	TILT LUMINAIRE UP 3°, PROVIDE W/9' DEEP BASE
L47	12'	40'	"I"125+95	26.3' LT	41.69	TILT LUMINAIRE UP 3°, PROVIDE W/9' DEEP BASE
L48	12'	40'	"O"123+73	22.7' RT	50.45	TILT LUMINAIRE UP 3°, MOUNT ON RETAINING WALL "D"
L49	12'	40'	"O"125+32	22.7' RT	47.27	TILT LUMINAIRE UP 3°, MOUNT ON RETAINING WALL "D"
L50	12'	35'	"E"133+19	64.8' LT	40.54	
L51	12'	35'	"O"127+05	22.7' RT	43.54	MOUNT ON RETAINING WALL "D"
L52	12'	35'	"E"134+98	57.3' LT	41.52	
L53	12'	35'	"E"136+53	57.8' LT	39.83	
L54	12'	35'	"O"128+74	22.7' RT	40.93	MOUNT ON RETAINING WALL "D"
L55	12'	35'	"E"138+19	57.8' LT	38.49	
L56	12'	35'	"O"130+41	22.7' RT	39.61	MOUNT ON RETAINING WALL "D"
L57	12'	35'	"E"139+87	57.8' LT	38.40	
L58	12'	35'	"E"139+91	63.7' RT	36.46	
L59	12'	35'	"E"141+57	57.8' LT	39.22	
L60	12'	35'	"E"141+60	57.3' RT	37.42	
L61	12'	35'	"E"143+27	57.8' LT	40.08	
L62	12'	35'	"E"143+30	57.3' RT	38.27	
L63	12'	35'	"E"144+97	57.8' LT	40.93	
L64	12'	35'	"E"145+00	57.3' RT	39.13	
L65	12'	35'	"E"146+67	57.3' RT	39.96	
L66	12'	35'	"E"146+67	57.8' LT	41.78	
L67	12'	35'	"S"10+67	30.9' RT	23.00	
L68	8'	35'	"S"12+53	20.7' LT	26.03	
L69	8'	35'	"S"13+96	20.7' LT	24.46	
L70	8'	35'	"S"15+43	20.7' LT	24.75	
L71	8'	35'	"S"16+97	20.7' LT	25.05	
L72	8'	35'	"S"18+49	20.7' LT	26.25	
L73	12'	35'	"G"10+56	35.6' RT	33.00	
L74	12'	35'	"G"11+68	37.5' LT	32.03	
L75	12'	35'	"G"12+91	25.7' RT	29.97	
L76	12'	35'	"G"14+09	37.5' LT	27.27	
L77	12'	35'	"G"15+33	26.4' RT	25.82	
L78	12'	35'	"G"16+80	33.0' LT	24.72	

ELECTROLIER SUMMARY

LUM. NO.	STATION	OFFSET	REMARKS
B1	"G"16+37	13.5' LT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B2	"G"16+37	13.5' RT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B3	"G"15+74	13.5' LT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B4	"G"15+74	13.5' RT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B5	"S"12+08	16.5' LT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B6	"S"12+08	16.5' RT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B7	"S"11+20	16.5' LT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK
B8	"S"11+20	16.5' RT	PENDANT MOUNT TO BOTTOM OF BRIDGE DECK

ELECTROLIER JUNCTION BOX SUMMARY

NO.	STATION	OFFSET	TYPE
J1A	"G"16+36	21.1' RT	1A
J1B	"G"15+68	21.1' RT	1A
J2	"I"122+16	7.4' RT	1A
J3	"I"122+24	7.4' RT	1A
J4	"I"122+31	7.4' RT	1A
J5A	"O"119+49	23.8' RT	1A
J5B	"O"119+54	23.8' RT	1A
J5C	"O"119+59	23.8' RT	1A
J6A	"S"11+15	16.4' RT	1A
J6B	"S"12+12	15.6' RT	1A
J7	"G"16+79	23.4' RT	1A
J8	"O"111+16	5.0' LT	1A
J9	"O"112+18	9.6' LT	1A

NOTE:

1. SEE "Q" SHEETS FOR SIGNAL EQUIPMENT AND MATERIALS SUMMARY.

2. STATION AND OFFSET INFORMATION GIVEN TO CENTER OF LIGHT POLE BASE AND CENTER OF J-BOX. POLE BASE ELEVATION GIVEN TO TOP OF LIGHT POLE CONCRETE FOUNDATION.

ELECTROLIER JUNCTION BOX SUMMARY

NO.	STATION	OFFSET	TYPE
L1	"E"102+30	56.0' RT	1A
L2	"I"98+14	23.0' LT	1A
L3	"E"104+00	54.0' LT	1A
L4	"I"99+67	23.0' LT	1A
L5	"E"105+66	54.0' RT	1A
L6	"I"101+16	23.0' LT	1A
L7	"E"107+21	56.2' RT	1A
L8	"I"102+68	23.0' LT	1A
L9	"O"100+47	23.0' RT	1A
L10	"I"104+34	22.4' LT	1A
L11	"O"102+13	23.0' RT	1A
L12	"I"106+18	23.0' LT	1A
L13	"E"112+19	54.0' RT	1A
L14	"I"107+86	23.0' LT	1A
L15	"O"104+87	7.7' LT	1A
L16	"E"114+28	54.0' RT	1A
L17	"E"115+02	54.3' LT	1A
L18	"O"106+69	7.7' LT	1A
L19	"E"115+89	54.0' RT	1A
L20	"E"117+21	54.2' LT	1A
L21	"O"108-49	7.7' LT	1A
L22	"E"117+50	54.0' RT	1A
L24	"I"113+08	7.3' RT	1A
L25	"O"110+40	7.7' LT	1A
L26	"E"118+96	53.9' LT	1A
L27	"E"119+00	54.4' RT	1A
L28	"E"120+86	54.2' RT	1A
L29	"E"120+90	54.1' LT	1A
L30	"I"115+86	9.5' RT	1A
L31	"O"113+09	6.9' LT	1A
L32	"E"122+08	54.0' LT	1A
L33	"E"122+16	54.0' RT	1A
L34	"O"114+94	6.8' LT	1A
L35	"I"117+99	23.0' LT	1A
L36	"E"123+51	54.3' LT	1A
L37	"E"123+63	54.0' RT	1A
L38	"E"125+15	52.5' RT	1A
L39	"I"119+76	23.0' LT	1A
L40	"E"125+43	54.0' LT	1A
L41	"O"118+75	23.0' RT	1A
L42	"I"121+43	23.0' LT	1A
L43	"O"120+45	23.0' RT	1A
L44	"I"122+85	23.1' LT	1A
L46	"I"124+84	22.8' LT	1A
L47	"I"125+95	23.0' LT	1A
L50	"E"133+19	61.5' LT	1A
L52	"E"134+98	54.0' LT	1A
L53	"E"136+53	54.5' LT	1A
L55	"E"138+19	54.5' LT	1A
L57	"E"139+87	54.5' LT	1A
L58	"E"139+91	60.4' RT	1A
L59	"E"141+57	54.5' LT	1A
L60	"E"141+60	54.0' RT	1A
L61	"E"143+27	54.5' LT	1A
L62	"E"143+30	54.0' RT	1A
L63	"E"144+97	54.5' LT	1A
L64	"E"145+00	54.0' RT	1A
L65	"E"146+67	54.0' RT	1A
L66	"E"146+67	54.5' LT	1A
L67	"S"10+67	27.6' RT	1A
L68	"S"12+53	16.3' LT	1A
L69	"S"13+96	16.3' LT	1A
L70	"S"15+43	16.3' LT	1A
L71	"S"16+97	16.3' LT	1A
L72	"S"18+49	16.3' LT	1A
L73	"G"10+56	32.3' RT	1A
L74	"G"11+72	37.5' LT	1A
L75	"G"12+87	25.7' RT	1A
L76	"G"14+13	37.5' LT	1A
L77	"G"15+33	23.1' RT	1A
L78	"G"16+80	29.7' LT	1A

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PREPARED BY: MORRIS ENGINEERING

DESIGNED BY: MGM

STATE OF ALASKA 49TH — Mark G. Morris, Aug 04, 2008, No. EE 8613, REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM

DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Light Pole and Junction Box Station and Offset Tables

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R21	269

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

LOAD CENTER SUMMARY

NO.	STATION	OFFSET	REMARKS
1	"O" 119+45	91' RT.	THIS LOAD CENTER POWERS THE LIGHT POLES ON THE PROJECT.

SUMMARY OF LIGHTING LOAD CENTER: NO. 1

LOAD CENTER TYPE 1

LOCATION DATA: "O" 119+45, 91' RT.

LOAD CENTER:
POWER SOURCE: UTILITY POLE ADJACENT LOAD CENTER
PHOTOELECTRIC CONTROL: YES

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

INTERRUPTING CAPACITY OF CIRCUIT BREAKERS-SERIES RATED 10,000 AIC
PROVIDE METER SOCKET? YES SERVICE AMPS 200A

MAIN BREAKER A: 480 VOLT, 2 POLE, 40 AMPERES PANEL A MAIN: 80A
MAIN BREAKER B: 480 VOLT, 2 POLE, 200 AMPERES PANEL B MAIN: 200A
CONTACTOR: 600 VOLT, 2 POLE, 200 AMPHERES

LOAD PANEL A SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
A1	PHOTO ELECTRIC CONTROL	0.10	15A	1
A2	SPARE	-	20A	2
A3	SPARE	-	20A	2
A4	SPARE	-	20A	2
A5	SPARE	-	20A	2
A6	SPACE	-	-	-
	TOTAL DEMAND LOAD:	0.1 KVA		

LOAD PANEL B SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
B1	SOUTHBOUND RAMP (S OF LOAD CTR)	1.8	30A	2
B2	SOUTHBOUND EGAN (S OF LOAD CTR)	4.8	30A	2
B3	NORTHBOUND EGAN (S OF LOAD CTR)	4.5	30A	2
B4	NORTHBOUND RAMP (S OF LOAD CTR) & LEMON CREEK ACCESS ROAD	4.2	30A	2
B5	SOTUHBOUND EGAN (N OF LOAD CTR)	3.6	30A	2
B6	NORTHBOUND EGAN (N OF LOAD CTR)	3.6	30A	2
B7	SUNNY POINT ROAD	1.8	30A	2
B9	SUNNY POINT UNDERCROSSING	0.6	30A	2
B10	W. LEMON VALLEY UNDERCROSSING	0.6	30A	2
	TOTAL DEMAND LOAD:	25.5KVA / 53.1 A		

NOTE:
1. PROVIDE A 15KVA 480V:120/240V, 1ø TRANSFORMER TO POWER PANEL A. PROVIDE A 40/2 CIRCUIT BREAKER ON THE PRIMARY SIDE OF THE TRANSFORMER AND A 80/2 CIRCUIT BREAKER ON THE SECONDARY SIDE OF THE TRANSFORMER.
2. STATION AND OFFSET INFORMATION GIVEN TO CENTER OF LOAD CENTER.
3. PROVIDE A 12 CKT PANEL FOR PANEL A AND A 20 CKT PANEL FOR PANEL B.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PREPARED BY: MORRIS ENGINEERING
DESIGNED BY: MGM
CHECKED BY: MGM
DRAWN BY: NKG

STATE OF ALASKA
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431
Load Center Schedule and Station & Offset Table

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R22	269

LOAD CENTER SUMMARY

NO.	STATION	OFFSET	REMARKS
1	"O" 119+45	91' RT.	THIS LOAD CENTER POWERS THE LIGHT POLES ON THE PROJECT.

SUMMARY OF LIGHTING LOAD CENTER: NO. 1

LOAD CENTER TYPE 1

LOCATION DATA: "O" 119+45, 91' RT.

LOAD CENTER:
POWER SOURCE: UTILITY POLE ADJACENT LOAD CENTER
PHOTOELECTRIC CONTROL: YES

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

INTERRUPTING CAPACITY OF CIRCUIT BREAKERS-SERIES RATED 10,000 AIC
PROVIDE METER SOCKET? YES SERVICE AMPS 200A

MAIN BREAKER A: 480 VOLT, 2 POLE, 40 AMPERES PANEL A MAIN: 80A
MAIN BREAKER B: 480 VOLT, 2 POLE, 200 AMPERES PANEL B MAIN: 200A
CONTACTOR: 600 VOLT, 2 POLE, 200 AMPHERES

LOAD PANEL A SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
A1	PHOTO ELECTRIC CONTROL	0.10	15A	1
A2	SPARE	-	20A	2
A3	SPARE	-	20A	2
A4	SPARE	-	20A	2
A5	SPARE	-	20A	2
A6	SPACE	-	-	-
	TOTAL DEMAND LOAD:	0.1 KVA		

LOAD PANEL B SUMMARY

CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER AMPS	BREAKER POLES
B1	SOUTHBOUND RAMP (S OF LOAD CTR)	1.8	30A	2
B2	SOUTHBOUND EGAN (S OF LOAD CTR)	4.8	30A	2
B3	NORTHBOUND EGAN (S OF LOAD CTR)	4.5	30A	2
B4	NORTHBOUND RAMP (S OF LOAD CTR) & LEMON CREEK ACCESS ROAD	4.2	30A	2
B5	SOTUHBOUND EGAN (N OF LOAD CTR)	3.6	30A	2
B6	NORTHBOUND EGAN (N OF LOAD CTR)	3.6	30A	2
B7	SUNNY POINT ROAD	1.8	30A	2
B9	SUNNY POINT UNDERCROSSING	0.6	30A	2
B10	W. LEMON VALLEY UNDERCROSSING	0.6	30A	2
	TOTAL DEMAND LOAD:	25.5KVA / 53.1 A		

NOTE:
1. PROVIDE A 15KVA 480V:120/240V, 1ø TRANSFORMER TO POWER PANEL A. PROVIDE A 40/2 CIRCUIT BREAKER ON THE PRIMARY SIDE OF THE TRANSFORMER AND A 80/2 CIRCUIT BREAKER ON THE SECONDARY SIDE OF THE TRANSFORMER.

2. STATION AND OFFSET INFORMATION GIVEN TO CENTER OF LOAD CENTER.

3. PROVIDE A 12 CKT PANEL FOR PANEL A AND A 20 CKT PANEL FOR PANEL B.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

PREPARED BY: MORRIS ENGINEERING
DESIGNED BY: MGM

STATE OF ALASKA 49TH
Mark G. Morris
Aug 04, 2006
No. EE 8613
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: MGM
DRAWN BY: NKG

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Load Center Schedule and Station & Offset Table

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

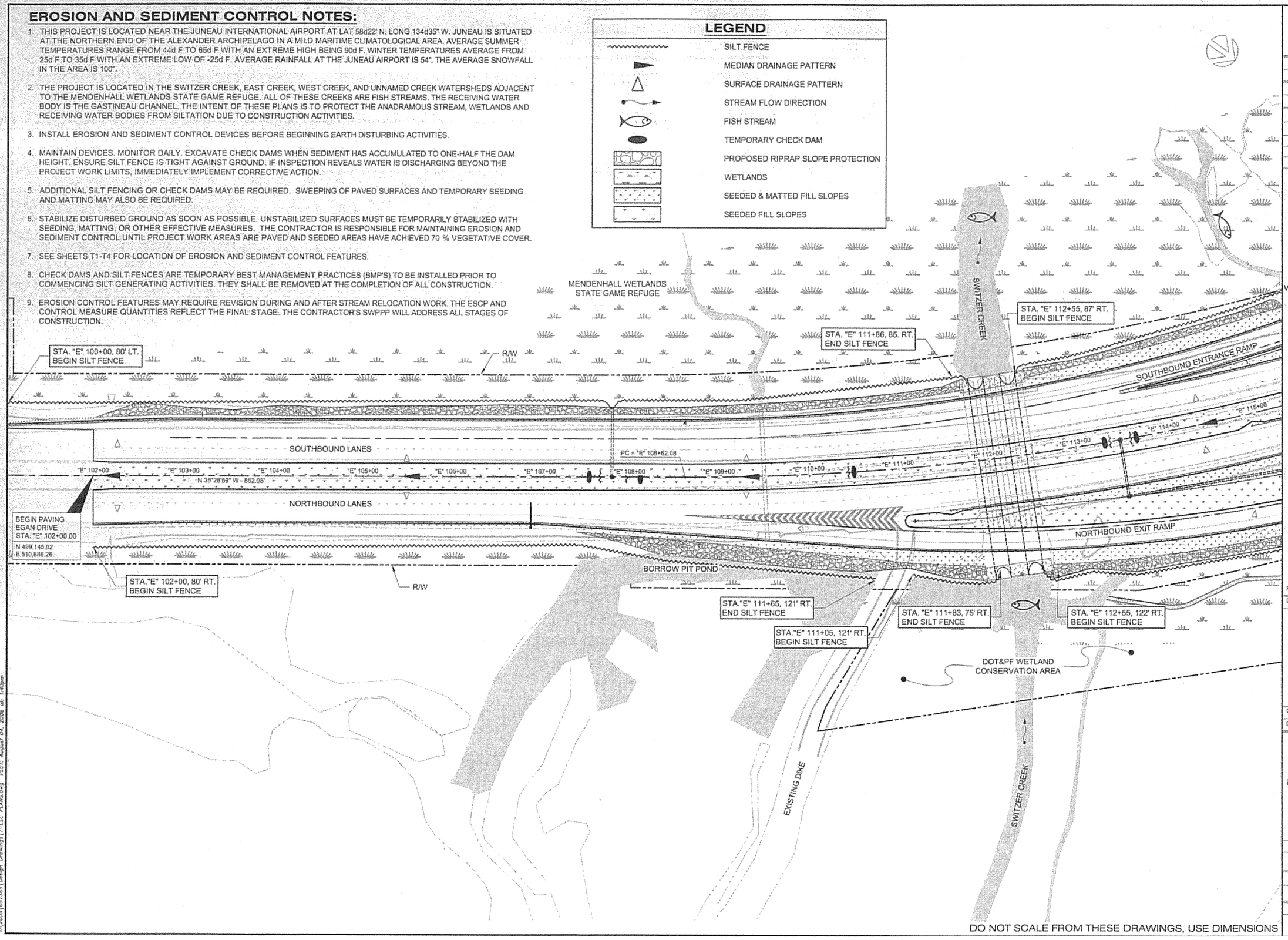
SHEET NUMBER	TOTAL SHEETS
R22	269

EROSION AND SEDIMENT CONTROL NOTES:

1. THIS PROJECT IS LOCATED NEAR THE JUNEAU INTERNATIONAL AIRPORT AT LAT 58d22' N, LONG 134d35" W. JUNEAU IS SITUATED AT THE NORTHERN END OF THE ALEXANDER ARCHIPELAGO IN A MILD MARITIME CLIMATOLOGICAL AREA. AVERAGE SUMMER TEMPERATURES RANGE FROM 44d F TO 65d F WITH AN EXTREME HIGH BEING 90d F. WINTER TEMPERATURES AVERAGE FROM 25d F TO 35d F WITH AN EXTREME LOW OF -25d F. AVERAGE RAINFALL AT THE JUNEAU AIRPORT IS 54". THE AVERAGE SNOWFALL IN THE AREA IS 100".
2. THE PROJECT IS LOCATED IN THE SWITZER CREEK, EAST CREEK, WEST CREEK, AND UNNAMED CREEK WATERSHEDS ADJACENT TO THE MENDENHALL WETLANDS STATE GAME REFUGE. ALL OF THESE CREEKS ARE FISH STREAMS. THE RECEIVING WATER BODY IS THE GASTINEAU CHANNEL. THE INTENT OF THESE PLANS IS TO PROTECT THE ANADRAMOUS STREAM, WETLANDS AND RECEIVING WATER BODIES FROM SILTATION DUE TO CONSTRUCTION ACTIVITIES.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING EARTH DISTURBING ACTIVITIES.
4. MAINTAIN DEVICES. MONITOR DAILY. EXCAVATE CHECK DAMS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DAM HEIGHT. ENSURE SILT FENCE IS TIGHT AGAINST GROUND. IF INSPECTION REVEALS WATER IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION.
5. ADDITIONAL SILT FENCING OR CHECK DAMS MAY BE REQUIRED. SWEEPING OF PAVED SURFACES AND TEMPORARY SEEDING AND MATTING MAY ALSO BE REQUIRED.
6. STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH 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.
7. SEE SHEETS T1-T4 FOR LOCATION OF EROSION AND SEDIMENT CONTROL FEATURES.
8. CHECK DAMS AND SILT FENCES ARE TEMPORARY BEST MANAGEMENT PRACTICES (BMP'S) TO BE INSTALLED PRIOR TO COMMENCING SILT GENERATING ACTIVITIES. THEY SHALL BE REMOVED AT THE COMPLETION OF ALL CONSTRUCTION.
9. EROSION CONTROL FEATURES MAY REQUIRE REVISION DURING AND AFTER STREAM RELOCATION WORK. THE ESCP AND CONTROL MEASURE QUANTITIES REFLECT THE FINAL STAGE. THE CONTRACTOR'S SWPPP WILL ADDRESS ALL STAGES OF CONSTRUCTION.

LEGEND

- SILT FENCE
- MEDIAN DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- STREAM FLOW DIRECTION
- FISH STREAM
- TEMPORARY CHECK DAM
- PROPOSED RIPRAP SLOPE PROTECTION
- WETLANDS
- SEEDED & MATTED FILL SLOPES
- SEEDED FILL SLOPES

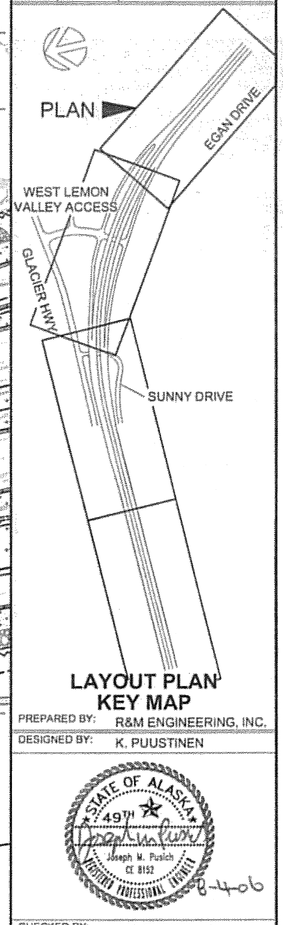


DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER .

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Erosion and Sediment Control Plan

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
T1	269

I:\2003\051363\Design Drawings\1-ESC PLANS.dwg PLOT: August 04, 2006 at: 1:45pm

LEGEND

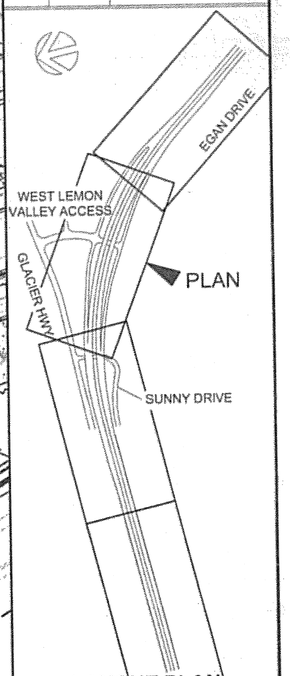
- SILT FENCE
- MEDIAN DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- STREAM FLOW DIRECTION
- FISH STREAM
- TEMPORARY CHECK DAM
- PROPOSED RIPRAP SLOPE PROTECTION
- WETLANDS
- SEEDED & MATTED FILL SLOPES
- SEEDED FILL SLOPES

EAST CREEK
R/W
MENDENHALL WETLANDS STATE GAME REFUGE
CONTINUOUS SILT FENCE
WETLANDS RESTORATION AREA
SOUTHBOUND ENTRANCE RAMP
SOUTHBOUND EXIT RAMP
SOUTHBOUND LANES
NORTHBOUND LANES
NORTHBOUND ENTRANCE RAMP
NORTHBOUND EXIT RAMP
"E" 115+00
"E" 116+00
"E" 117+00
"E" 118+00
"E" 119+00
"E" 120+00
"E" 121+00
"E" 122+00
"E" 123+00
"E" 124+00
"E" 125+00
"E" 126+00
"E" 127+00
"E" 128+00
INSTALL SILT FENCE
TEMPORARY CONSTRUCTION
PARTY ZONE
DOT&PF WETLAND CONSERVATION AREA
STA. "E" 119+86, 311' RT. END SILT FENCE
GLACIER HIGHWAY

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

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ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8406

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Erosion and Sediment Control Plan

PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
T2	269

MENDENHALL WETLANDS
STATE GAME REFUGE

R/W

WEST CREEK

UNNAMED CREEK

WETLANDS
RESTORATION AREA

SOUTHBOUND EXIT RAMP

NORTHBOUND ENTRANCE RAMP

"E" 127+00 "E" 128+00 "E" 129+00 "E" 130+00 "E" 131+00 "E" 132+00 "E" 133+00 "E" 134+00 "E" 135+00 "E" 136+00 "E" 137+00 "E" 138+00 "E" 139+00 "E" 140+00

STA. "E" 135+95, 132' LT.
END SILT FENCE

PT = "E" 135+27.43

SOUTHBOUND LANES

NORTHBOUND LANES

S 88°59'05" W - 2,179.39'

STA. "E" 139+25, 70' LT.
BEGIN SILT FENCE

R/W

STA. "E" 138+20, 90' RT.
BEGIN SILT FENCE

GLACIER HIGHWAY

R/W

LEGEND

- SILT FENCE
- MEDIAN DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- STREAM FLOW DIRECTION
- FISH STREAM
- TEMPORARY CHECK DAM
- PROPOSED RIPRAP SLOPE PROTECTION
- WETLANDS
- SEEDED & MATTED FILL SLOPES
- SEEDED FILL SLOPES

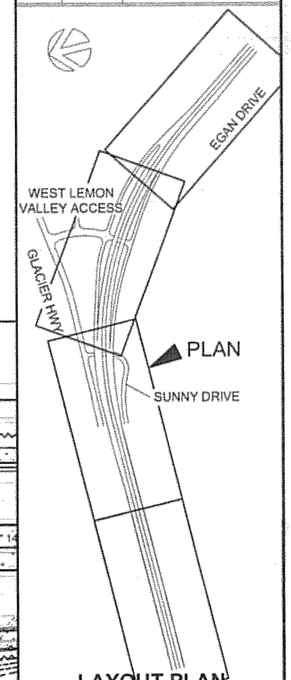
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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
PROFESSIONAL ENGINEER
8406

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Erosion and Sediment Control Plan

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
T3	**269**

R/W

MENDENHALL WETLANDS
STATE GAME REFUGE

STA. "E" 154+15, 55' LT.
END SILT FENCE

SUNNY DRIVE

SOUTHBOUND LANES

NORTHBOUND LANES

1+00 "E" 142+00 "E" 143+00 "E" 144+00 "E" 145+00 "E" 146+00 "E" 147+00 "E" 148+00 "E" 149+00 "E" 150+00 "E" 151+00 "E" 152+00 "E" 153+00 "E" 154+00 "E" 155+00

S 88°59'05" W - 2,179.39'

END OF PAVING
EGAN DRIVE
STA. "E" 146+96.00
N 500,816.74
E 507,045.55

STA. "E" 147+10, 60' LT.
END SILT FENCE

GLACIER HIGHWAY

R/W

LOT 6

LOT 5

LEGEND

- SILT FENCE
- MEDIAN DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- STREAM FLOW DIRECTION
- FISH STREAM
- TEMPORARY CHECK DAM
- PROPOSED RIPRAP SLOPE PROTECTION
- WETLANDS
- SEEDED & MATTED FILL SLOPES
- SEEDED FILL SLOPES

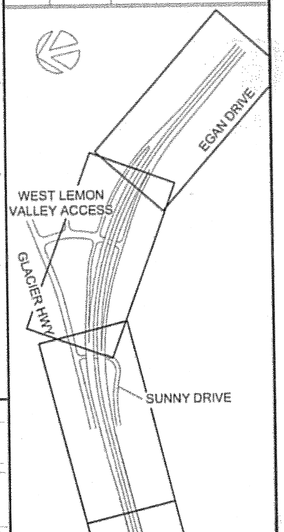
DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A1,2005\051563\Design Drawings\T-ESC PLANS.dwg PLOT: August 04, 2006 at: 1:41pm

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN

LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.

DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
EXPIRES PROFESSIONAL ENGINEER
8406

CHECKED BY: J.M. PUSICH

DRAWN BY: STAFF

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

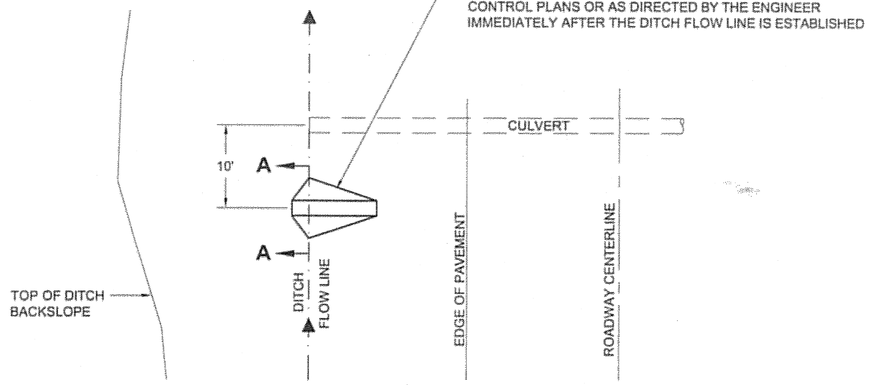
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Erosion and Sediment Control Plan

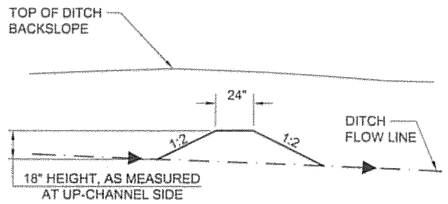
PROJECT DESIGNATION NUMBER

STP-093-2(31)~71431

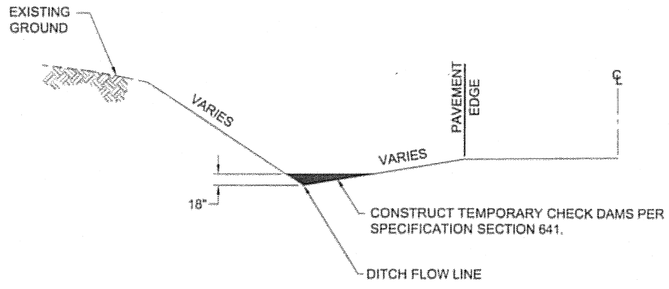
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
T4	269



PLAN
N.T.S.



SECTION A-A
N.T.S.



ELEVATION
N.T.S.

TEMPORARY CHECK DAM DETAILS
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

A:\2005\051A61\Design Drawings\T-ESCP Details.DWG PLOT: August 04, 2006 at: 1:39pm

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Erosion and Sediment Control Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8150
8-4-06

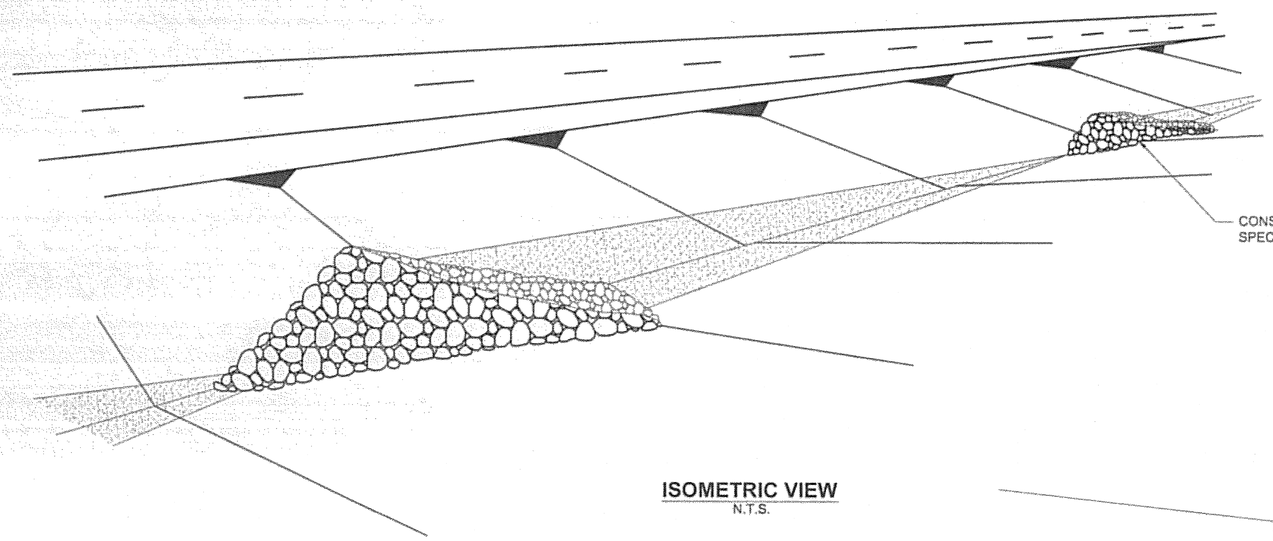
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

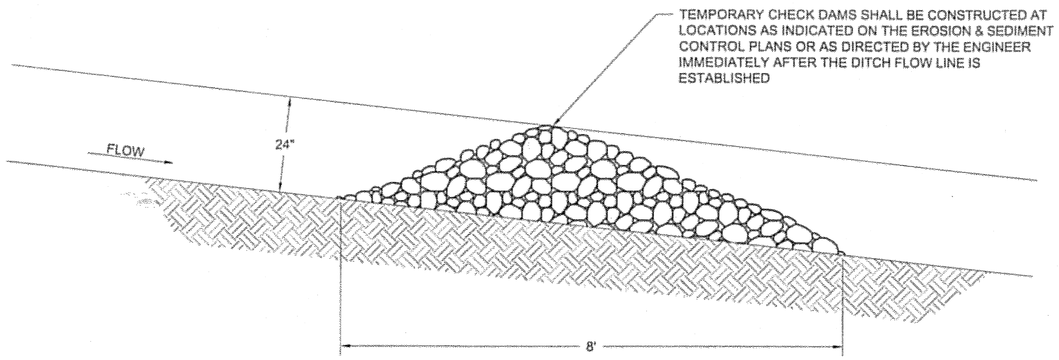
Erosion and Sediment Control Details

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

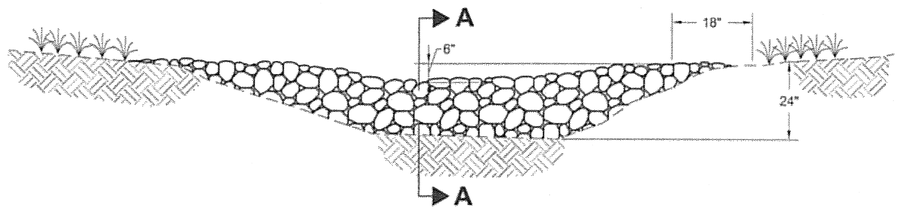
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
T5	269



ISOMETRIC VIEW
N.T.S.

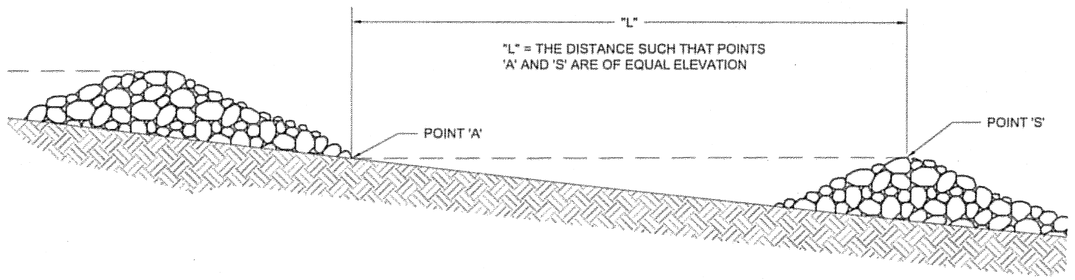


SECTION A-A



VIEW LOOKING UPSTREAM

NOTE:
KEY STONE INTO THE DITCH BANKS
AND EXTEND IT BEYOND THE ABUTMENTS
A MINIMUM OF 18" TO PREVENT OVER
FLOW AROUND DAM.



SPACING BETWEEN CHECK DAMS
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER -

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Ditch Block Installation Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Ditch Block Installation Details

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006

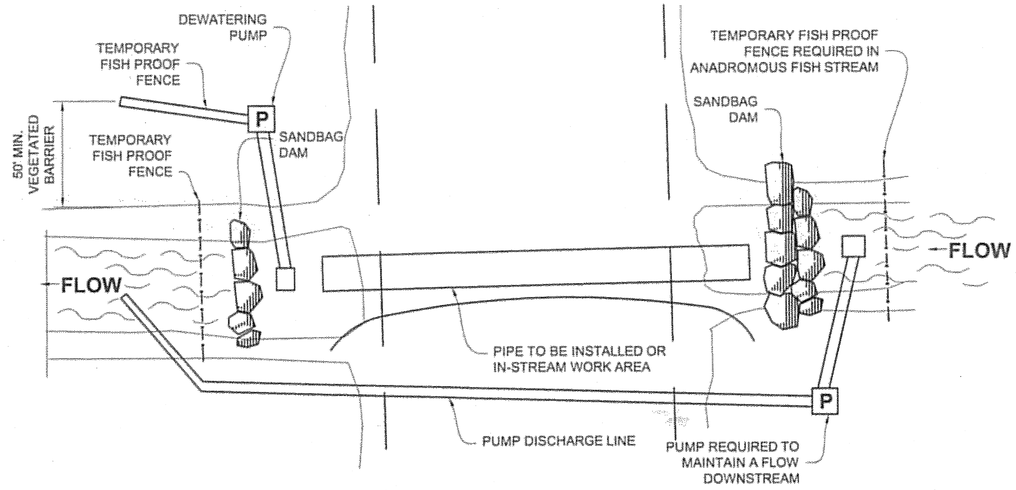
SHEET NUMBER	TOTAL SHEETS
T6	269

A:\2005\051053\Design Drawings\7-ESCP Details.DWG PLOT: August 04, 2006 at: 1:39pm

NOTES

1) IF A DEWATERING PUMP IS NECESSARY, PLACE THE DISCHARGE HOSE SO THAT THERE IS A MINIMUM OF 50 FEET OF VEGETATED AREA BETWEEN THE DISCHARGE POINT AND THE STREAM BANK SUCH THAT NO SILT-LADEN WATER ENTERS THE STREAM. THIS MAY REQUIRE FREQUENT REPOSITIONING OF THE DISCHARGE LOCATION AND/OR ADDITIONAL DISCHARGE TREATMENT METHODS.

2) FISH SHALL BE ISOLATED FROM THE WORK AREAS PRIOR TO BEGINNING WORK OPERATIONS IN A DESIGNATED FISH STREAM. THE DOT&PF ENVIRONMENTAL SECTION WILL INSTALL FISH PROOF FENCING AND ACCOMPLISH FISH RELOCATIONS. FOR THIS WORK, DOT&PF REQUIRES AT LEAST ONE WEEK ADVANCE NOTICE.



STREAM BYPASS PUMPING AND WORK AREA DEWATERING DETAIL
N.T.S.

INSTALLATION

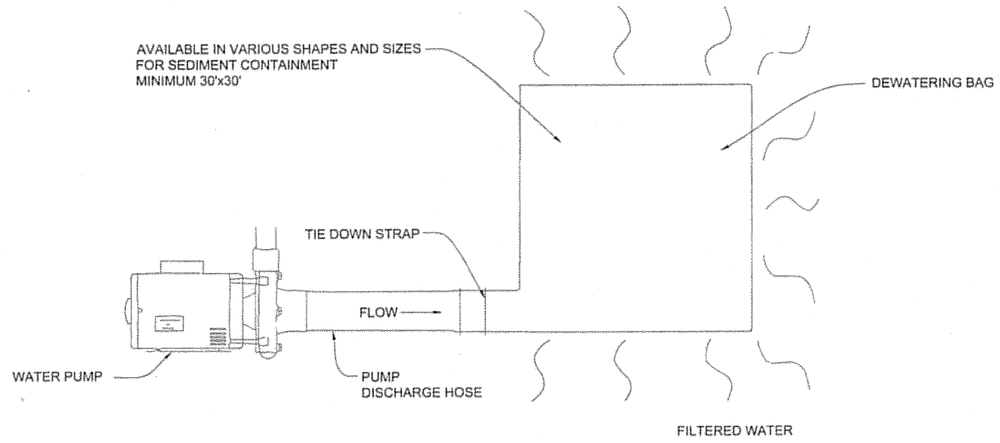
THE DEWATERING BAG IS DESIGNED TO CONTROL SEDIMENT DISCHARGE IN DEWATERING APPLICATIONS WHERE WATER IS BEING PUMPED.

1. LIFTING STRAPS, NOT INCLUDED, SHOULD BE PLACED UNDER THE DEWATERING BAG TO FACILITATE REMOVAL AFTER USE.
2. PLACE THE DEWATERING BAG ON A LEVEL STABILIZED AREA OVER DENSE VEGETATION/STRAW, OR GRAVEL (IF INCREASED DRAINAGE SURFACE AREA IS NEEDED) OR AS DETAILED IN PLANS.
3. INSERT DISCHARGE HOSE FROM PUMP INTO THE DEWATERING BAG A MINIMUM OF SIX INCHES (6") AND TIGHTLY SECURE WITH ATTACHED STRAP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED.
4. REPLACE THE UNIT WHEN ONE HALF (1/2) FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW FATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE.

MAINTENANCE

REMOVE AND DISPOSE OF THE SEDIMENT IN A MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR OR IN ONE OF THE FOLLOWING WAYS:

1. REMOVE THE UNIT AND SEDIMENT FROM ENVIRONMENTALLY SENSITIVE AREA AND WATERWAYS. AT THE APPROVED DISPOSAL SITE OPEN OR SLIT THE UNIT, REMOVE SEDIMENT AND GRADE SMOOTHLY INTO EXISTING TOPOGRAPHY. DISPOSE OF THE DEWATERING BAG, NO LONGER IN USE, AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY.
2. BURY UNIT ON SITE; REMOVE VISIBLE FABRIC AND SEED.



SEDIMENT FILTER (DEWATERING) BAG PLAN INSERT
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

By-Pass Pumping Detail

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

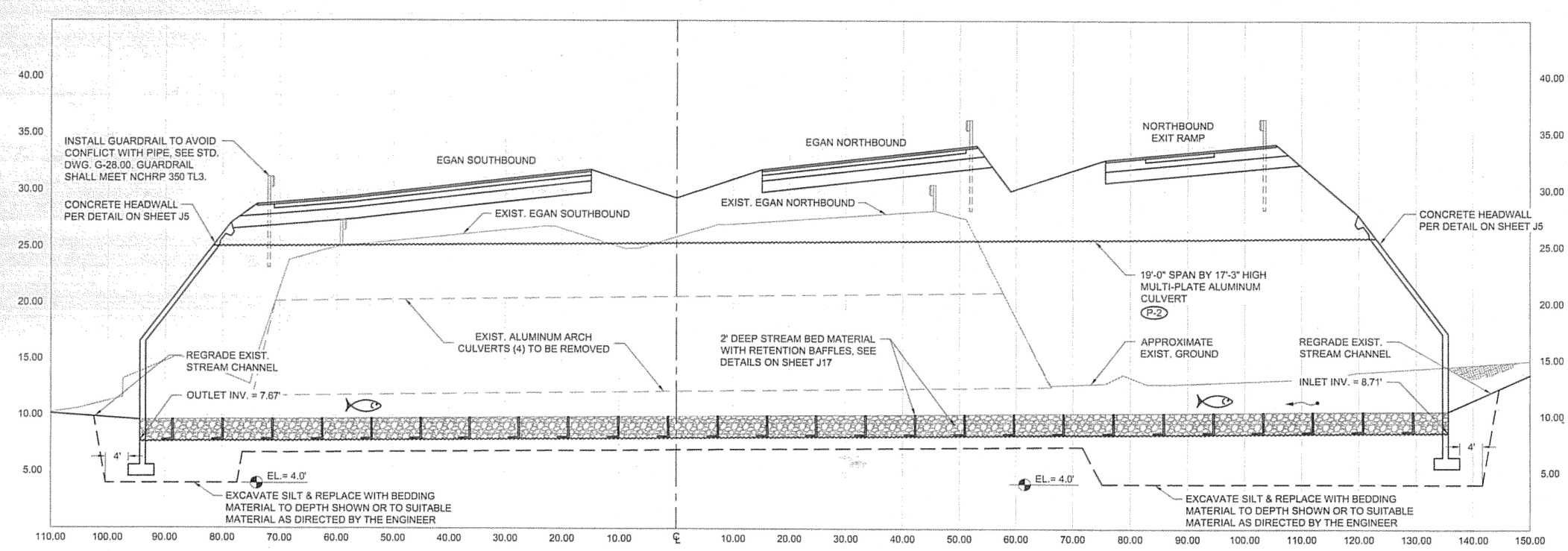
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

By-Pass Pumping Detail

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
T7	**269**

A:\2005\051663\Design Drawings\T-ESCP Details.DWG PLOT: August 04, 2006 at: 1:19pm

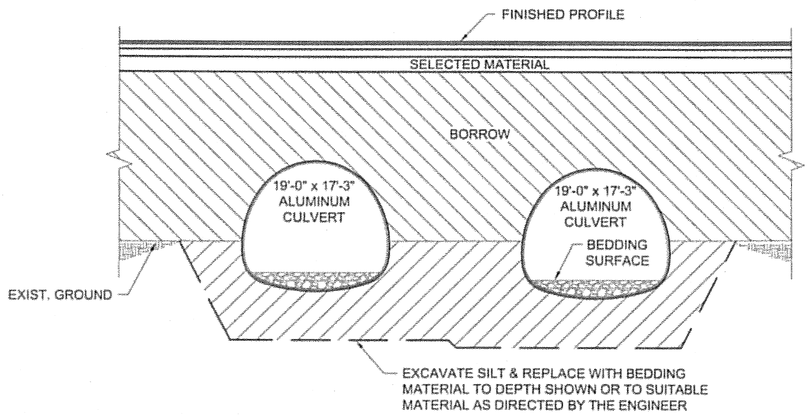


PIPE PROFILE
SWITZER SOUTH

SCALES: HORZ. 1" = 10' (FULL-SIZE)
VERT. 1" = 5' (FULL-SIZE)

NOTES:

1. CONTRACTOR IS REQUIRED TO SUBMIT A CULVERT INSTALLATION PLAN AT LEAST ONE MONTH PRIOR TO ANTICIPATED INSTALLATION DATE AND THE PLAN MUST BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION MAY BEGIN AT THIS CULVERT. THE PLAN SHALL INCLUDE HOW THE STREAM FLOW WILL BE MAINTAINED, HOW THE WORK AREA WILL BE DEWATERED AND WHAT ACTIVITIES THE CONTRACTOR EXPECTS TO DO WITHIN THE DOWNSTREAM REACH.
2. STREAM BED MATERIAL MUST BE IN PLACE BEFORE ACCEPTING STREAM FLOW.



BEDDING DETAIL
IN UNSUITABLE MATERIAL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Creek Culverts

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 REGISTERED PROFESSIONAL ENGINEER 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

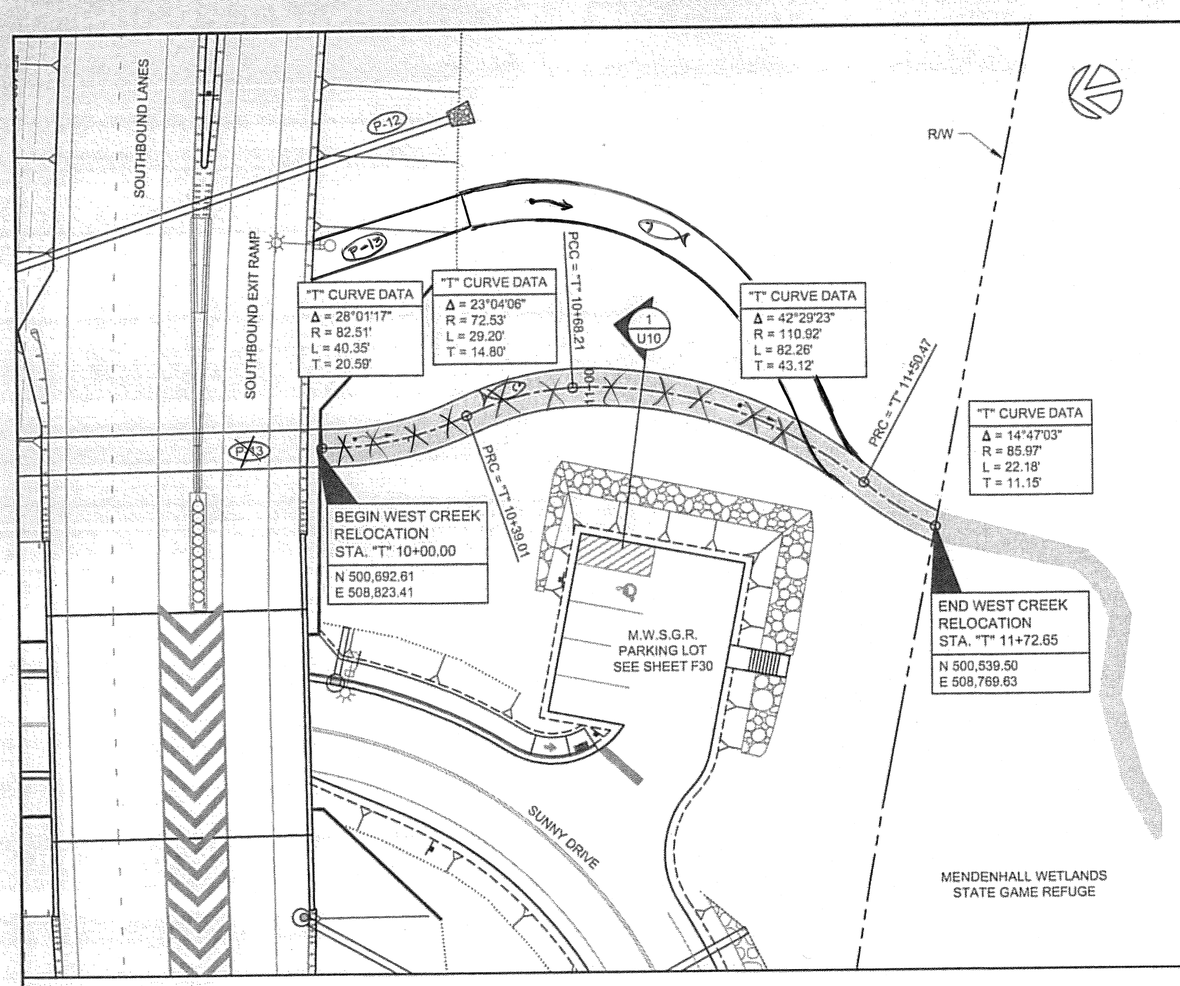
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Creek Culverts

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

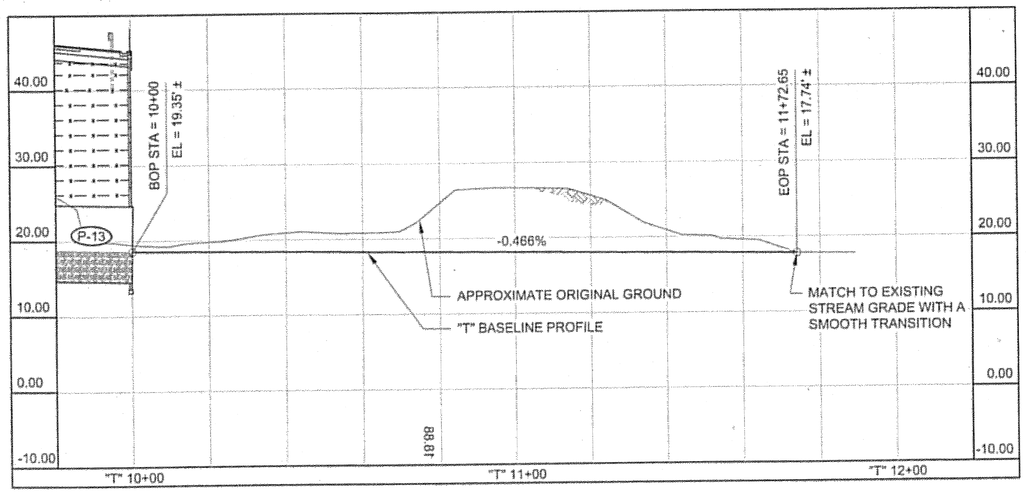
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
U1	**269**

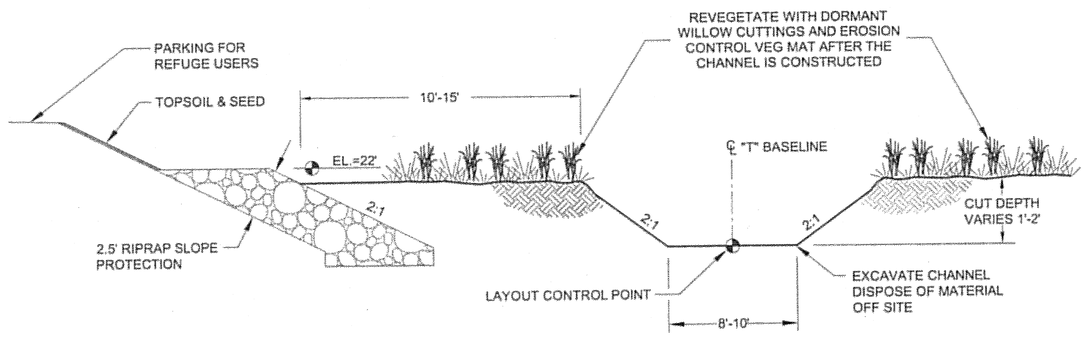
A:\2005\051365\Design Drawings\U-STREAM SECTIONS.dwg PLOT: August 04, 2006 at: 1:35pm



CONSTRUCTION NOTES:

1) THE EXCAVATED MATERIAL WILL BE REMOVED FROM THE WETLANDS.
2) REVEGETATE WITH DORMANT WILLOW CUTTINGS AND EROSION CONTROL VEG MAT AFTER THE CHANNEL IS CONSTRUCTED.



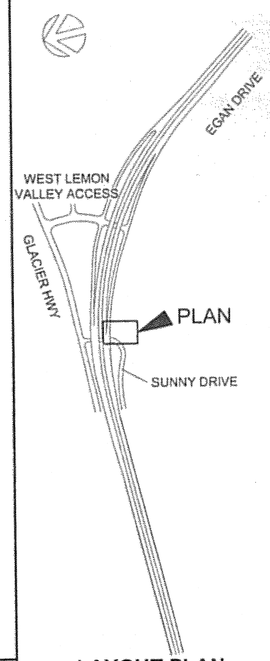


1 TYPICAL SECTION
STA. "T" 10+00 TO "T" 11+74.00
WEST CREEK RELOCATION
N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 10/31/06

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



LAYOUT PLAN KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

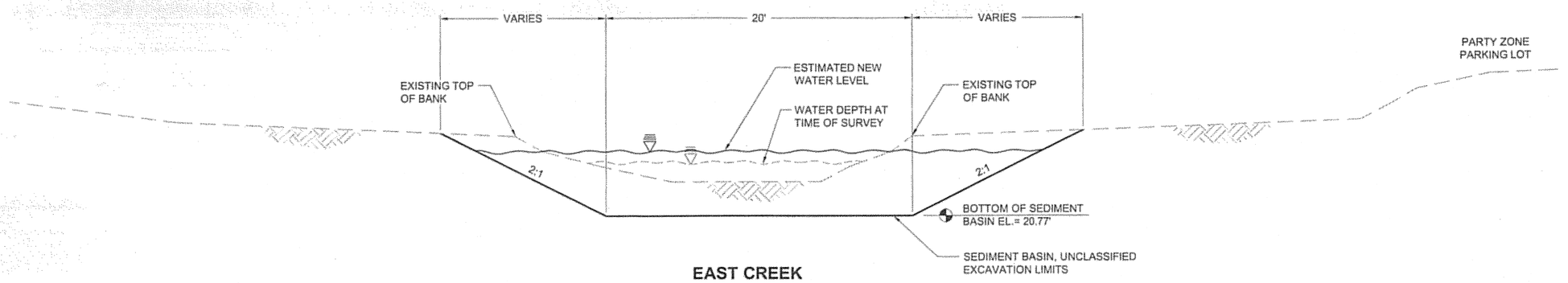
STATE OF ALASKA 49TH STATE — Joseph M. Pusich CE 8152 — REGISTERED PROFESSIONAL ENGINEER — 8-4-06

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

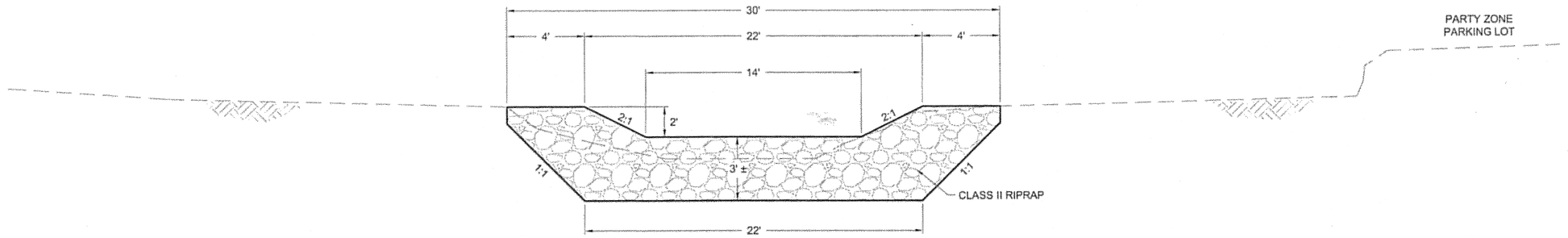
West Creek Relocation PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U10	269

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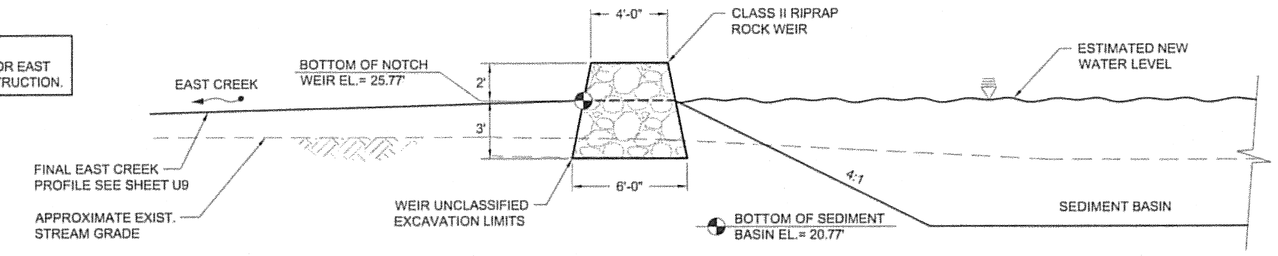


EAST CREEK
A-A SEDIMENT BASIN SECTION
N.T.S.
VIEW LOOKING DOWNSTREAM



EAST CREEK
B-B ROCK WEIR SECTION
N.T.S.
VIEW LOOKING DOWNSTREAM

NOTE:
SEE SHEET U9 FOR EAST CREEK RECONSTRUCTION.



ROCK WEIR CROSS SECTION
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

East Creek
Sediment Basin Details

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 9152
PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

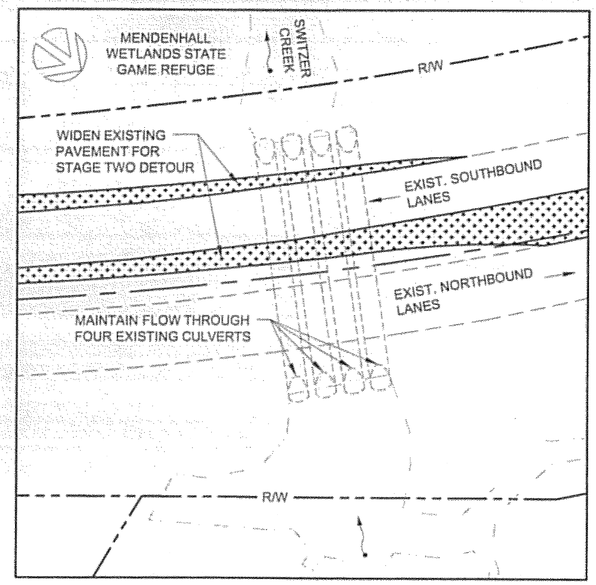
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

East Creek
Sediment Basin Details

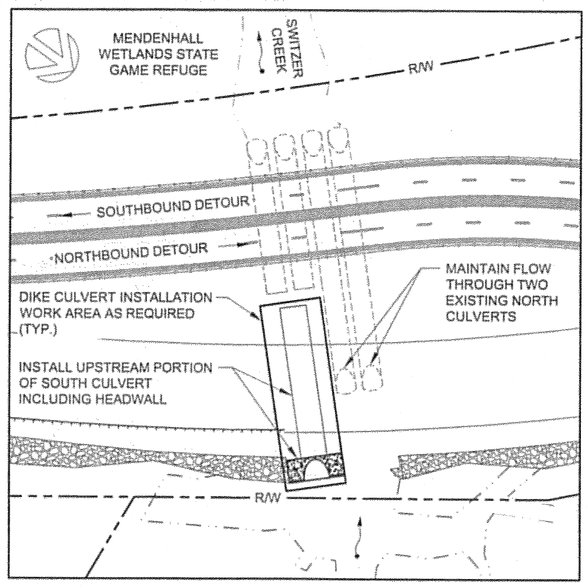
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U11	269

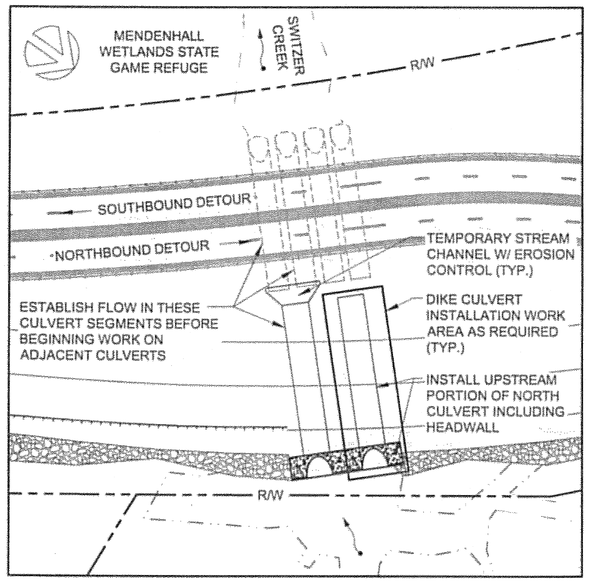
z:\2005\051365\Design Drawings\U-STREAM SECTIONS.dwg PLOT: August 04, 2006 at: 1:37pm



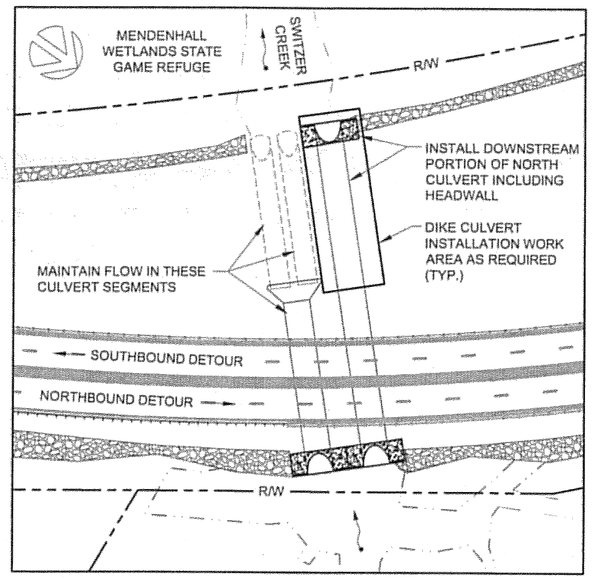
STAGE 1



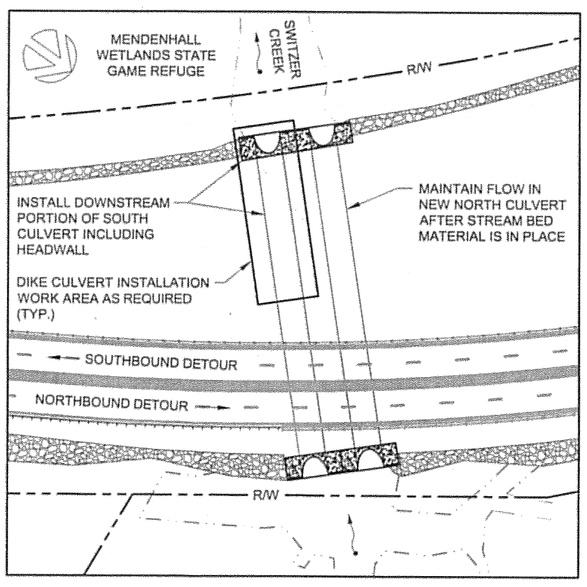
STAGE 2A



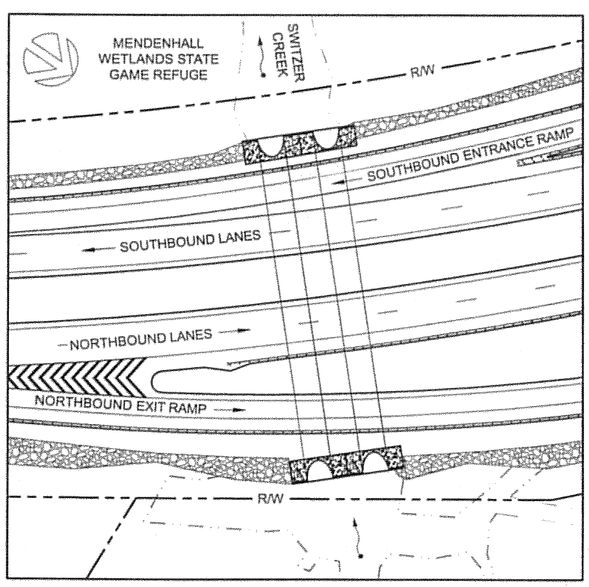
STAGE 2B



STAGE 3A



STAGE 3B



STAGE 5

NOTES:

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SWITZER CREEK
CULVERT INSTALLATION SEQUENCE PLAN

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Switzer Creek
Culvert Installation Sequence Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA — 49TH — Joseph M. Pusich — CE 8152 — PROFESSIONAL ENGINEER
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

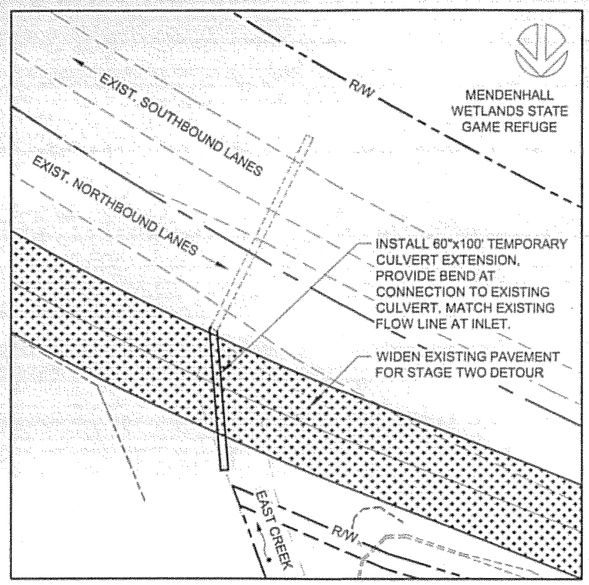
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

SWITZER CREEK
CULVERT INSTALLATION SEQUENCE PLAN

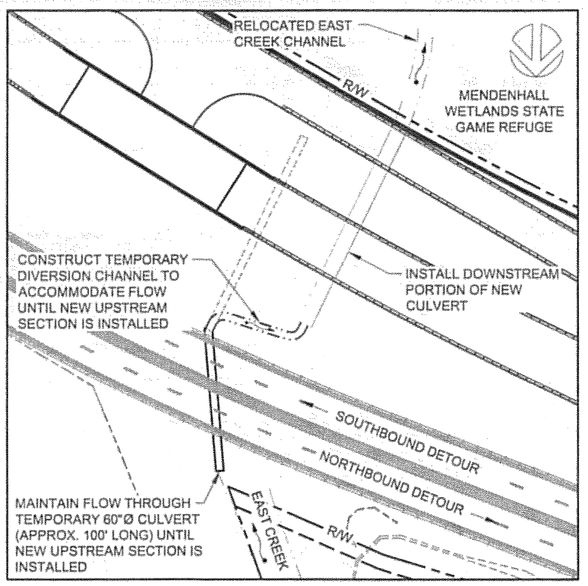
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
U12	**269**

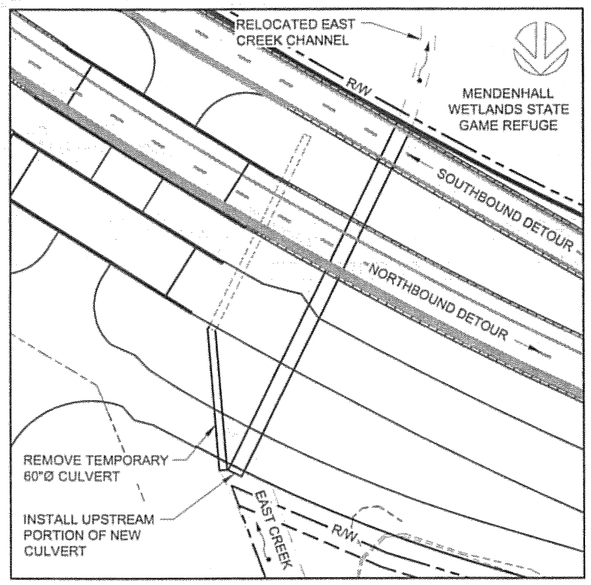
A:\2005\051565\Design Drawings\U-Pipe Sequencing Plans.dwg PLOT: August 04, 2006 at: 1:38pm



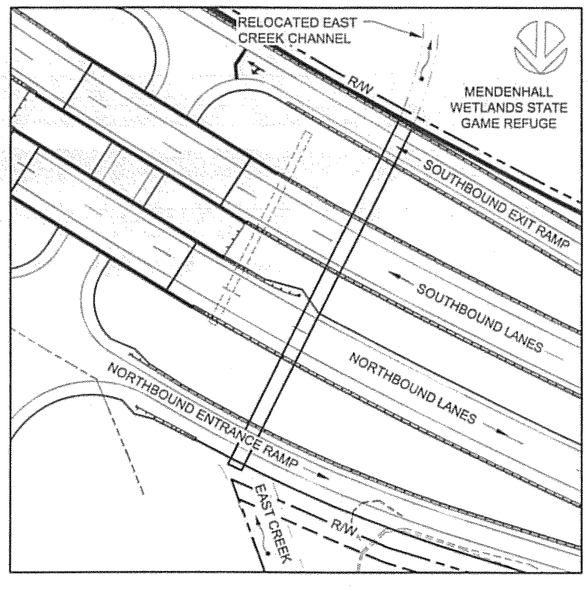
STAGE 1



STAGE 2



STAGE 4



STAGE 5

NOTES:

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EAST CREEK

CULVERT INSTALLATION SEQUENCE PLAN

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ATTACHMENT NUMBER		
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No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

East Creek
Culvert Installation Sequence Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

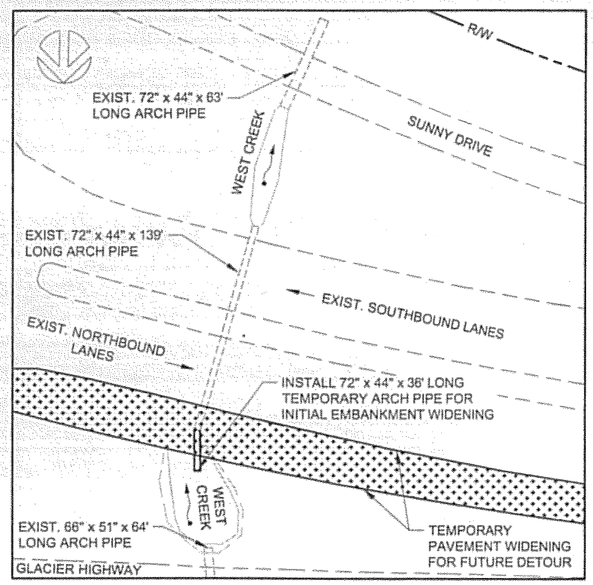
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

EAST CREEK
CULVERT INSTALLATION SEQUENCE PLAN

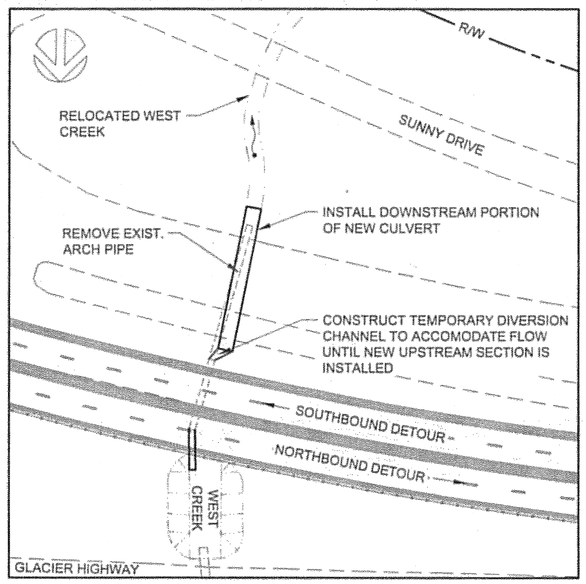
PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U13	269

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
PROFESSIONAL ENGINEER
8-4-06

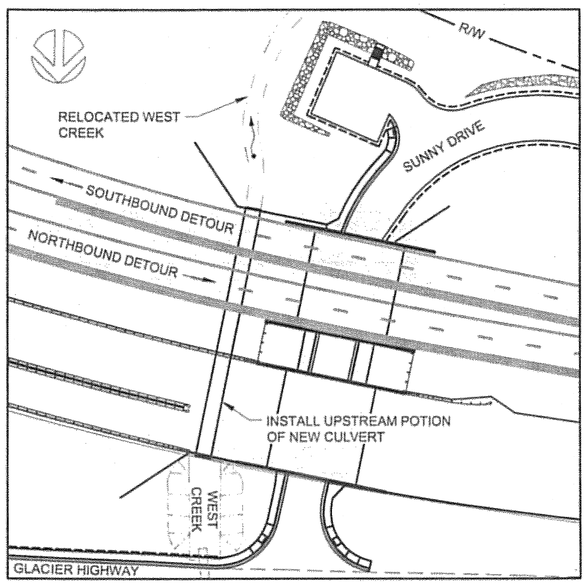
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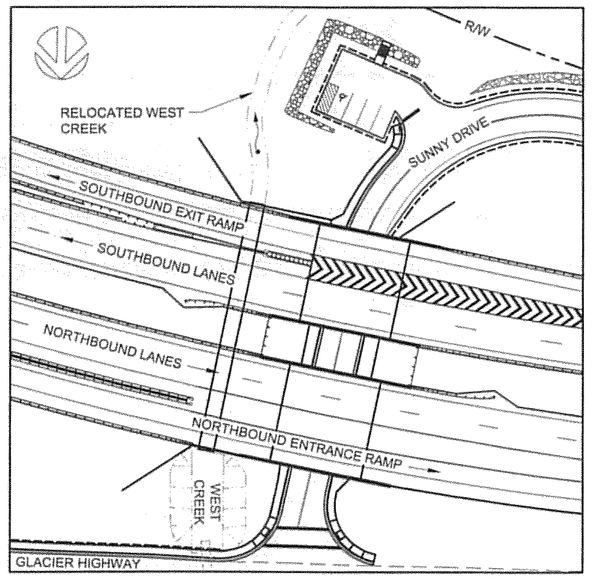
STAGE 1



STAGE 2



STAGE 4



STAGE 5

NOTES:

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WEST CREEK

CULVERT INSTALLATION SEQUENCE PLAN

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER -		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

West Creek
Culvert Installation Sequence Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

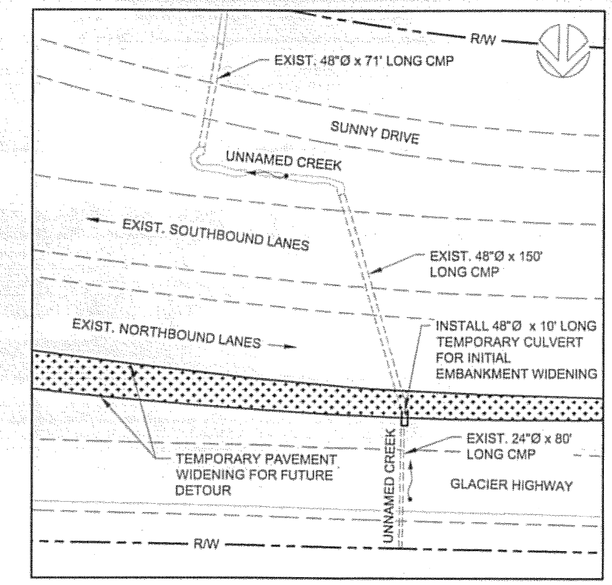
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

WEST CREEK CULVERT INSTALLATION SEQUENCE PLAN

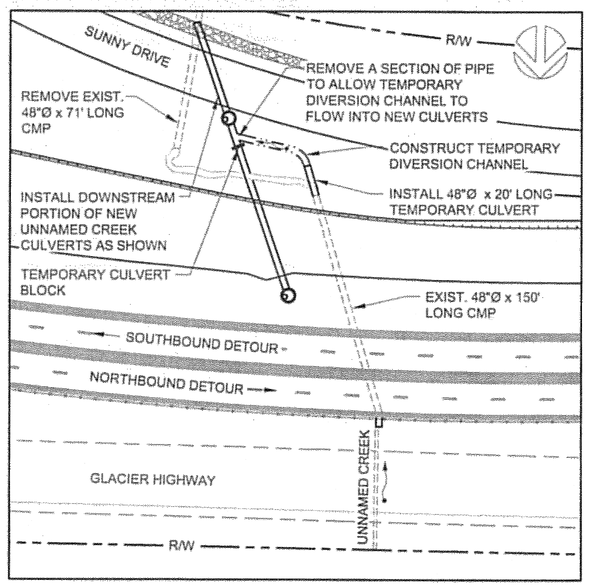
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U14	269

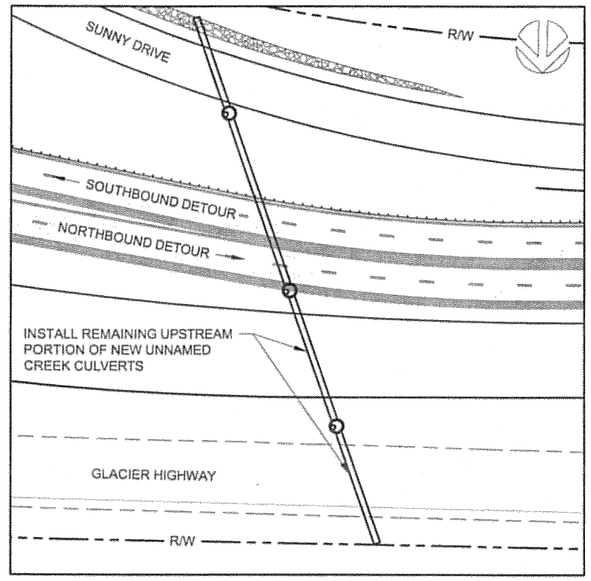
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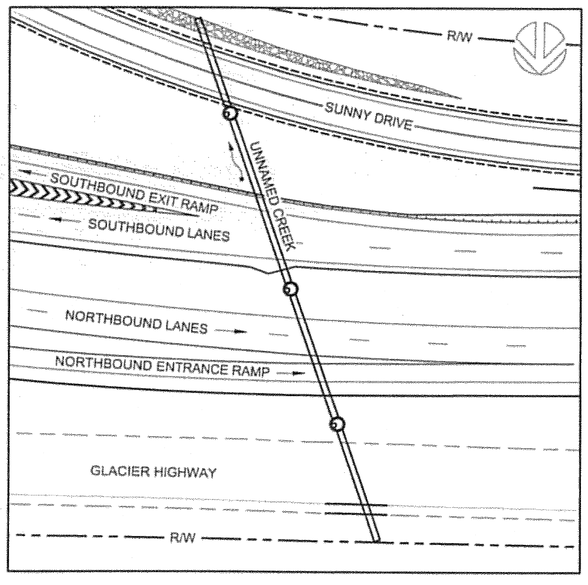
STAGE 1



STAGE 2



STAGE 4



STAGE 5

NOTES:

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UNNAMED CREEK
CULVERT INSTALLATION SEQUENCE PLAN

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Unnamed Creek
Culvert Installation Sequence Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

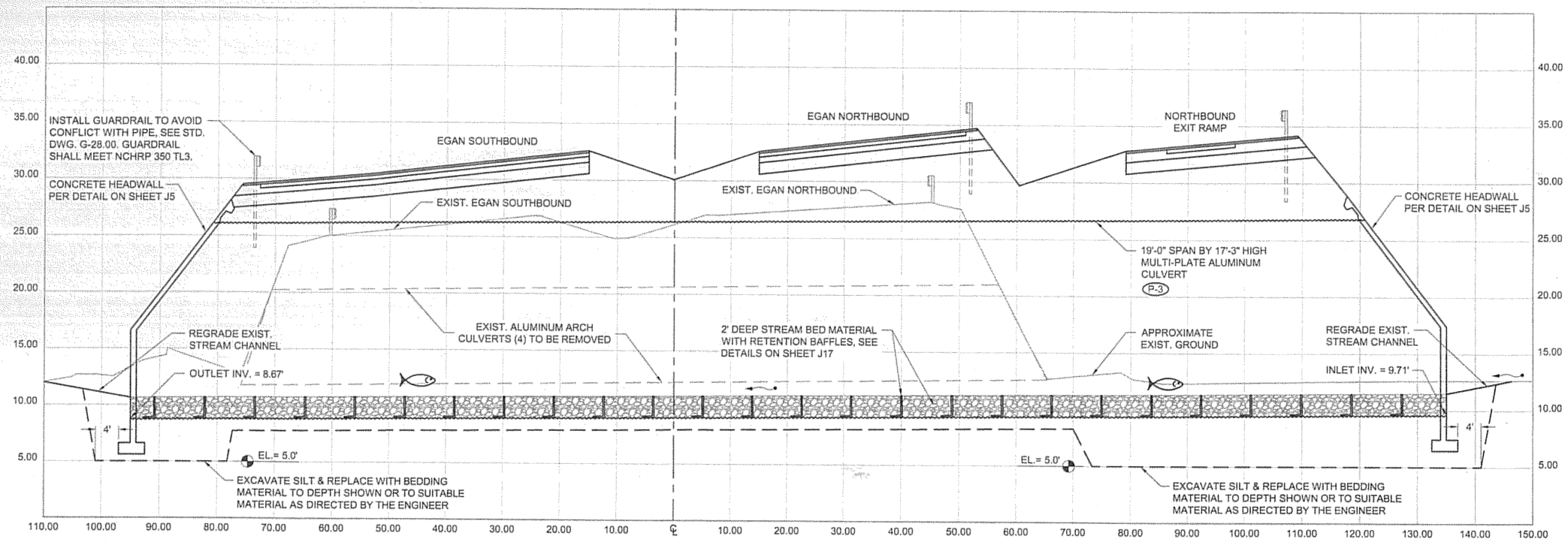
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

UNNAMED CREEK CULVERT INSTALLATION SEQUENCE PLAN

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U15	269

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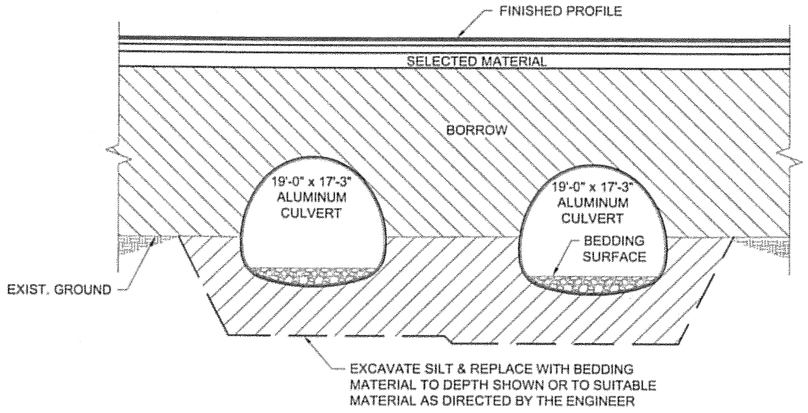


PIPE PROFILE
SWITZER NORTH

SCALES: HORZ. 1" = 10' (FULL-SIZE)
VERT. 1" = 5' (FULL-SIZE)

NOTES:

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BEDDING DETAIL
IN UNSUITABLE MATERIAL

N.T.S.

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SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Creek Culverts

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

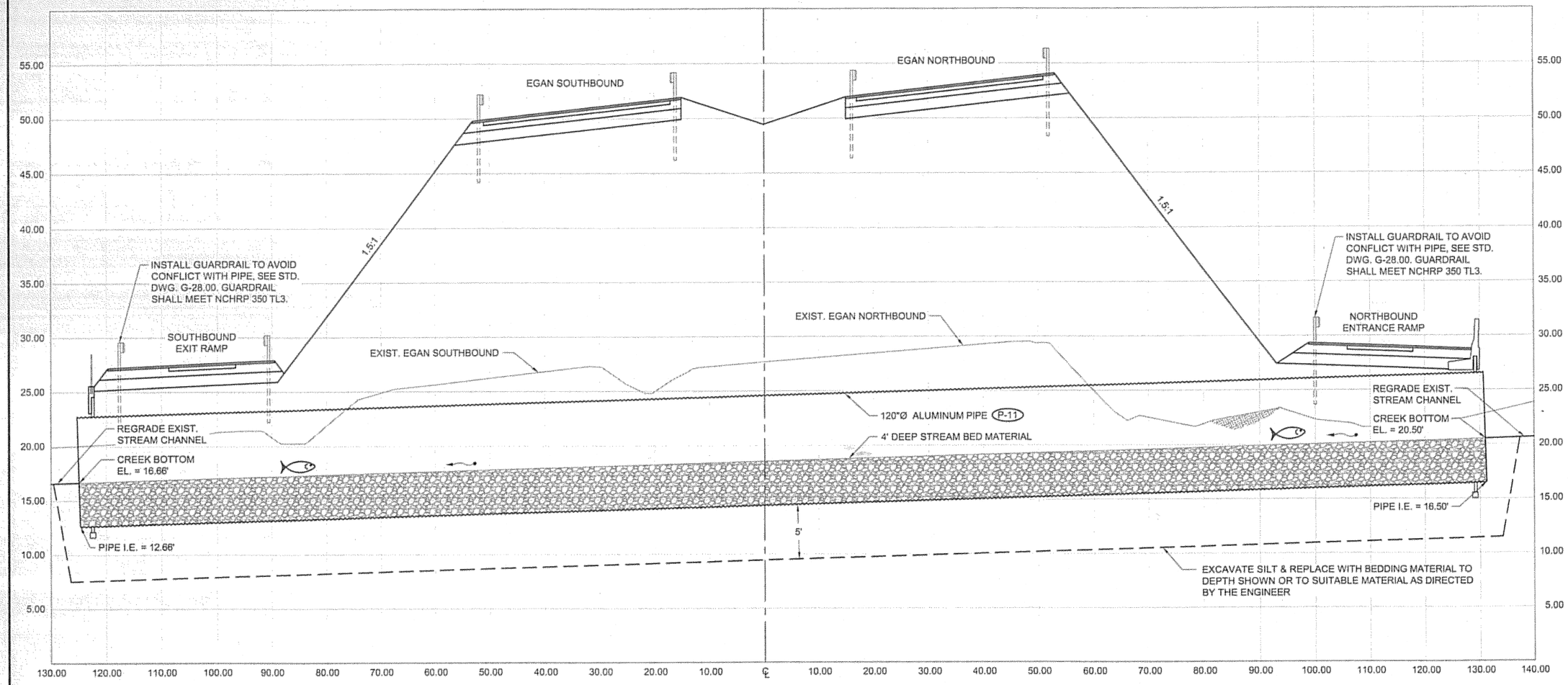
STATE OF ALASKA
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SUNNY POINT
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SHEET NUMBER	TOTAL SHEETS
U2	269

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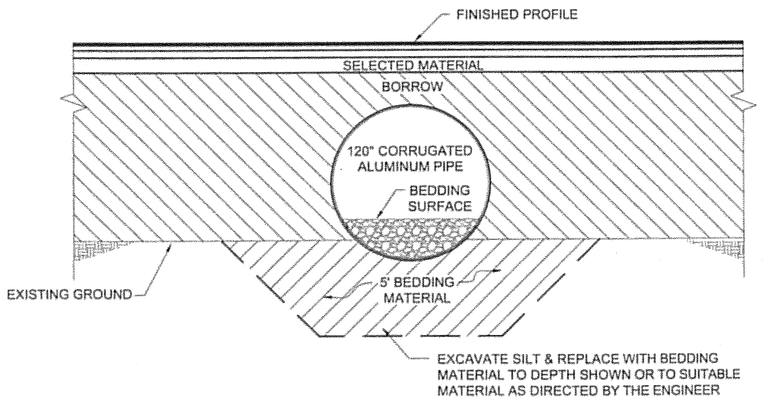


PIPE PROFILE
EAST CREEK

SCALES: HORZ. 1" = 10' (FULL-SIZE)
VERT. 1" = 5' (FULL-SIZE)

NOTES:

1. CONTRACTOR IS REQUIRED TO SUBMIT A CULVERT INSTALLATION PLAN AT LEAST ONE MONTH PRIOR TO ANTICIPATED INSTALLATION DATE AND THE PLAN MUST BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION MAY BEGIN AT THIS CULVERT. THE PLAN SHALL INCLUDE HOW THE STREAM FLOW WILL BE MAINTAINED, HOW THE WORK AREA WILL BE DEWATERED AND WHAT ACTIVITIES THE CONTRACTOR EXPECTS TO DO WITHIN THE DOWNSTREAM REACH.
2. STREAM BED MATERIAL MUST BE IN PLACE BEFORE ACCEPTING STREAM FLOW.



BEDDING DETAIL
IN UNSUITABLE MATERIAL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Creek Culverts

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER — 8-4-06

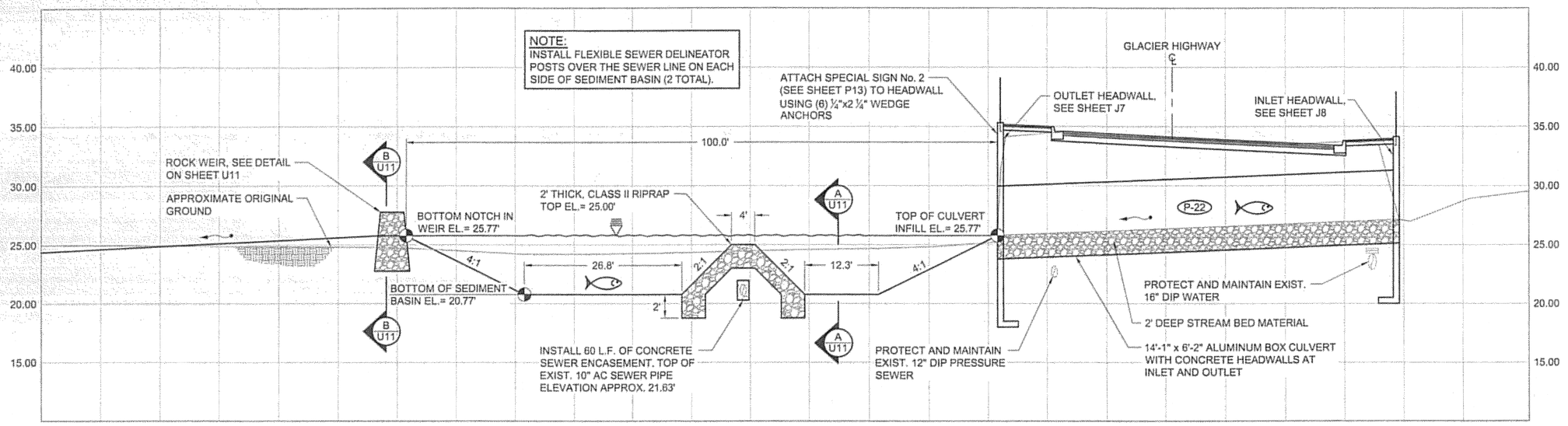
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

Creek Culverts

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
U3	**269**

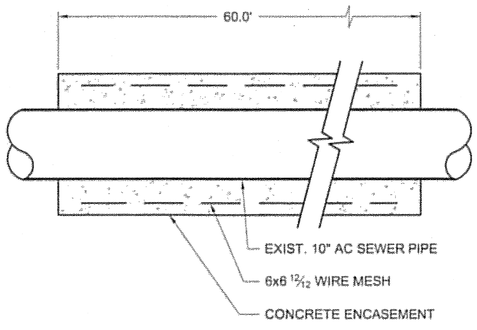
J:\2005\051363\Design Drawings\U-STREAM SECTIONS.dwg PLOT: August 04, 2006 at: 1:36pm



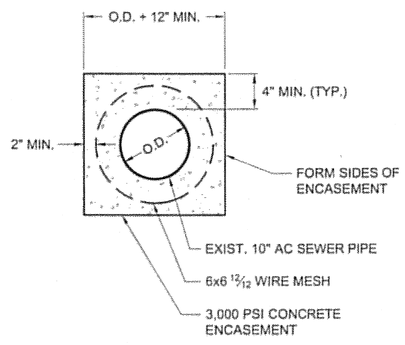
BOX CULVERT & SEDIMENT BASIN PROFILE
EAST CREEK

SCALES: HORZ. 1" = 10' (FULL-SIZE)
VERT. 1" = 5' (FULL-SIZE)

NOTES:
1. CONTRACTOR IS REQUIRED TO SUBMIT A CULVERT INSTALLATION PLAN AT LEAST ONE MONTH PRIOR TO ANTICIPATED INSTALLATION DATE AND THE PLAN MUST BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION MAY BEGIN AT THIS CULVERT. THE PLAN SHALL INCLUDE HOW THE STREAM FLOW WILL BE MAINTAINED, HOW THE WORK AREA WILL BE DEWATERED AND WHAT ACTIVITIES THE CONTRACTOR EXPECTS TO DO WITHIN THE DOWNSTREAM REACH.
2. STREAM BED MATERIAL MUST BE IN PLACE BEFORE ACCEPTING STREAM FLOW.



ELEVATION VIEW



SECTION VIEW

NOTE:
ALTERNATE ENCASEMENT METHODS MAY BE USED IF APPROVED BY THE ENGINEER.

SEWER ENCASEMENT DETAIL
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Creek Culverts

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 PROFESSIONAL ENGINEER 8-24-06

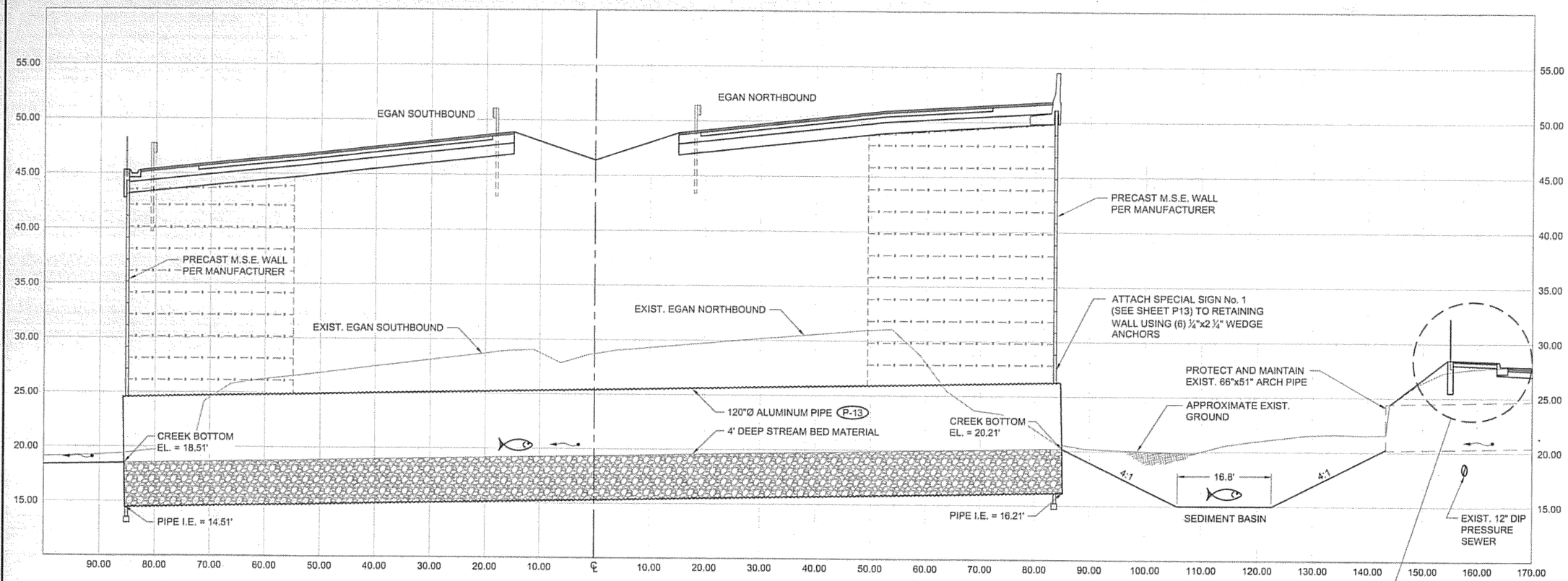
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

Creek Culverts
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
U4	**269**

I:\2005\051651\Design Drawings\U-STREAM SECTIONS.dwg PLOT: August 04, 2006 at: 1:36pm

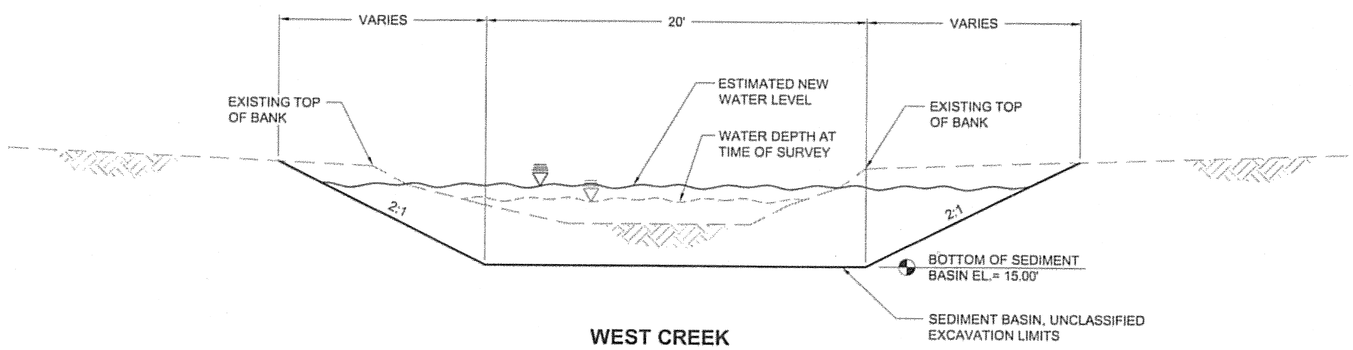


PIPE PROFILE
WEST CREEK

SCALES: HORZ. 1" = 10' (FULL-SIZE)
VERT. 1" = 5' (FULL-SIZE)

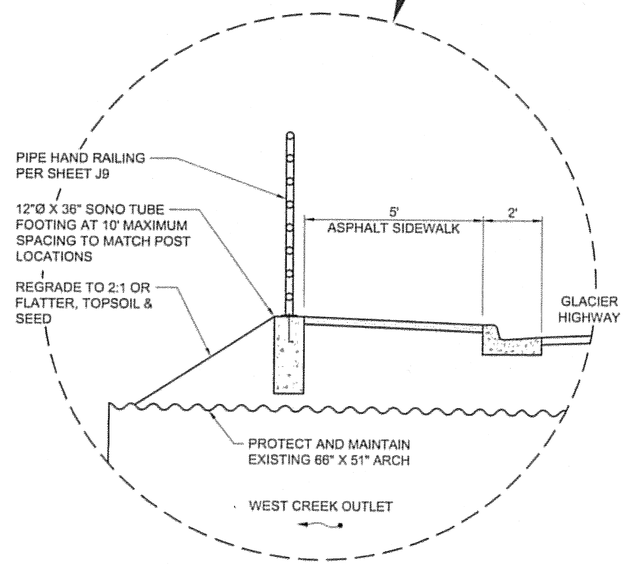
NOTES:

1. CONTRACTOR IS REQUIRED TO SUBMIT A CULVERT INSTALLATION PLAN AT LEAST ONE MONTH PRIOR TO ANTICIPATED INSTALLATION DATE AND THE PLAN MUST BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION MAY BEGIN AT THIS CULVERT. THE PLAN SHALL INCLUDE HOW THE STREAM FLOW WILL BE MAINTAINED, HOW THE WORK AREA WILL BE DEWATERED AND WHAT ACTIVITIES THE CONTRACTOR EXPECTS TO DO WITHIN THE DOWNSTREAM REACH.
2. STREAM BED MATERIAL MUST BE IN PLACE BEFORE ACCEPTING STREAM FLOW.



WEST CREEK
SEDIMENT BASIN CROSS SECTION

N.T.S.
VIEW LOOKING DOWNSTREAM



WEST CREEK OUTLET RAIL DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Creek Culverts

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

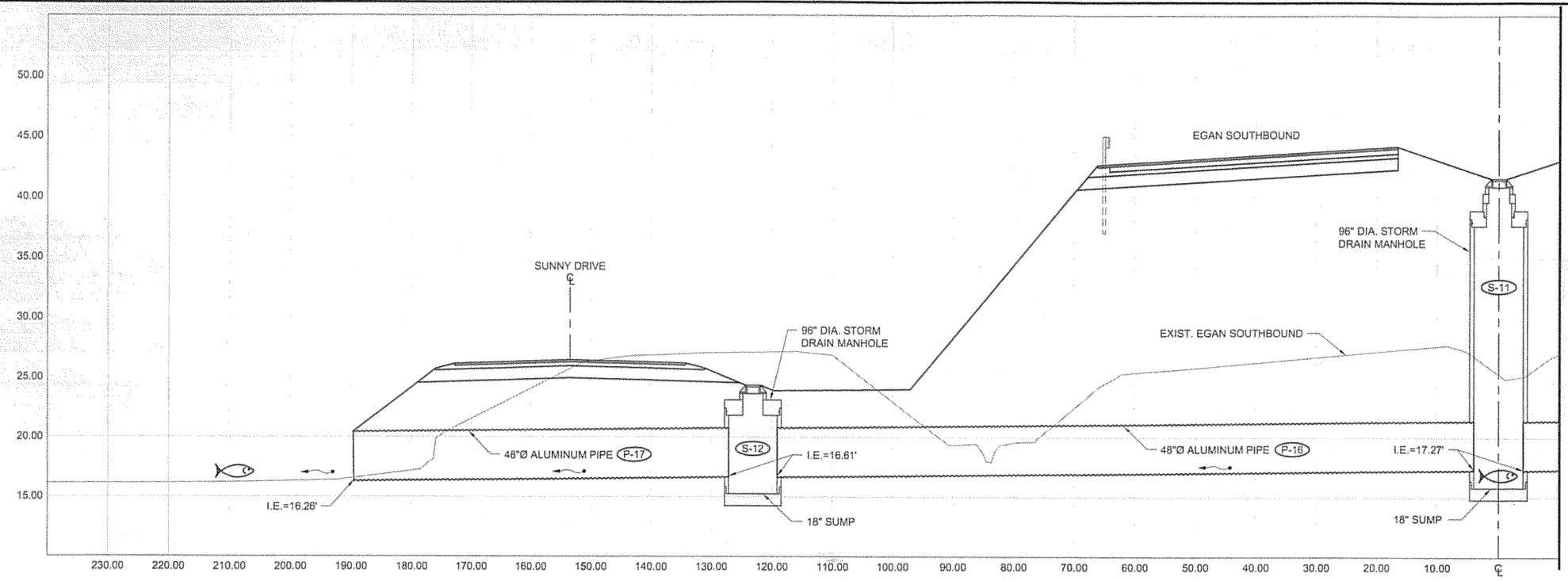
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

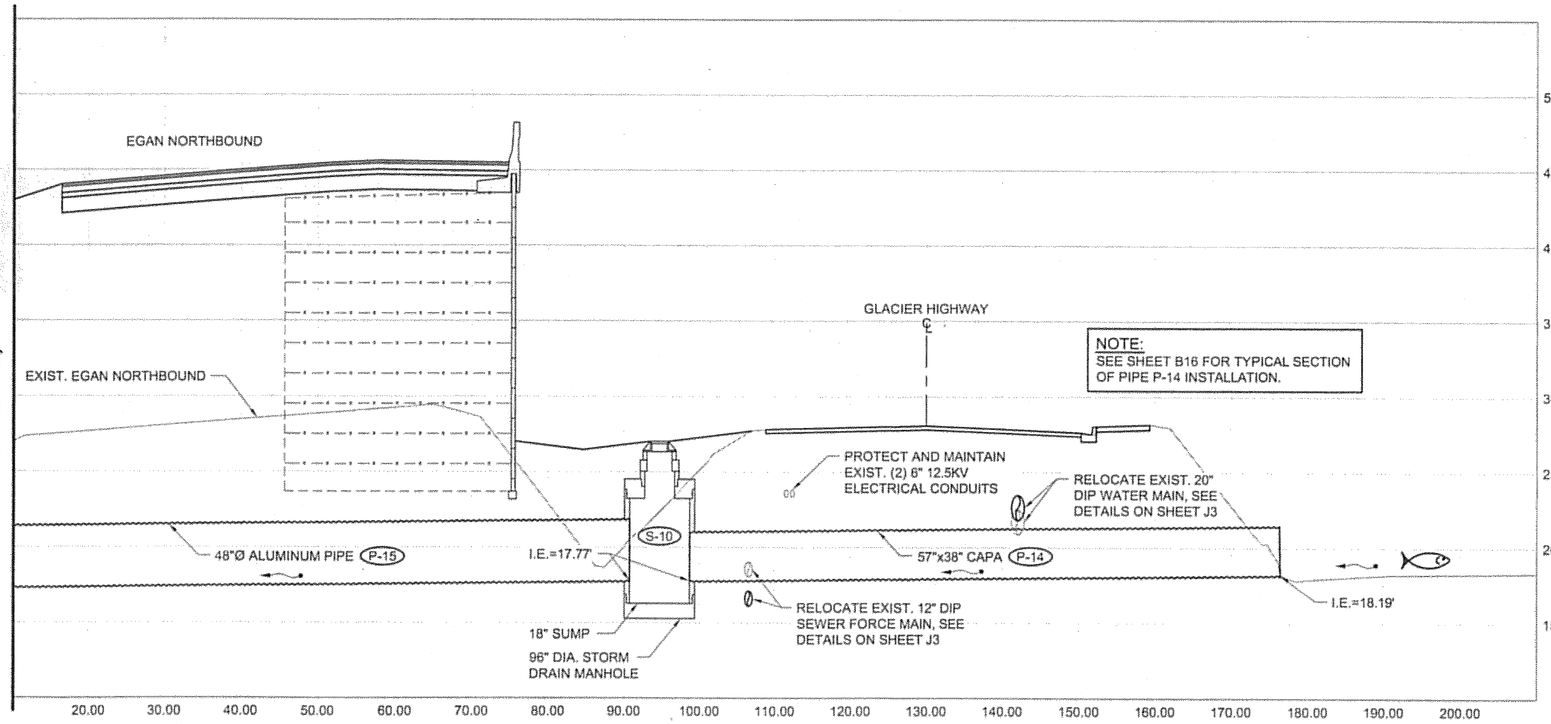
Creek Culverts
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
U5	**269**

Z:\2003\051353\Design Drawings\U-STREAM SECTIONS.dwg PLOT: August 04, 2006 at: 1:45pm



MATCH LINE, THIS SHEET



MATCH LINE, THIS SHEET

PIPE PROFILE
UNNAMED CREEK

SCALES: HORZ. 1" = 10' (FULL-SIZE)
VERT. 1" = 5' (FULL-SIZE)

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

Creek Culverts

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich
CE 8152
PROFESSIONAL ENGINEER
8-4-06

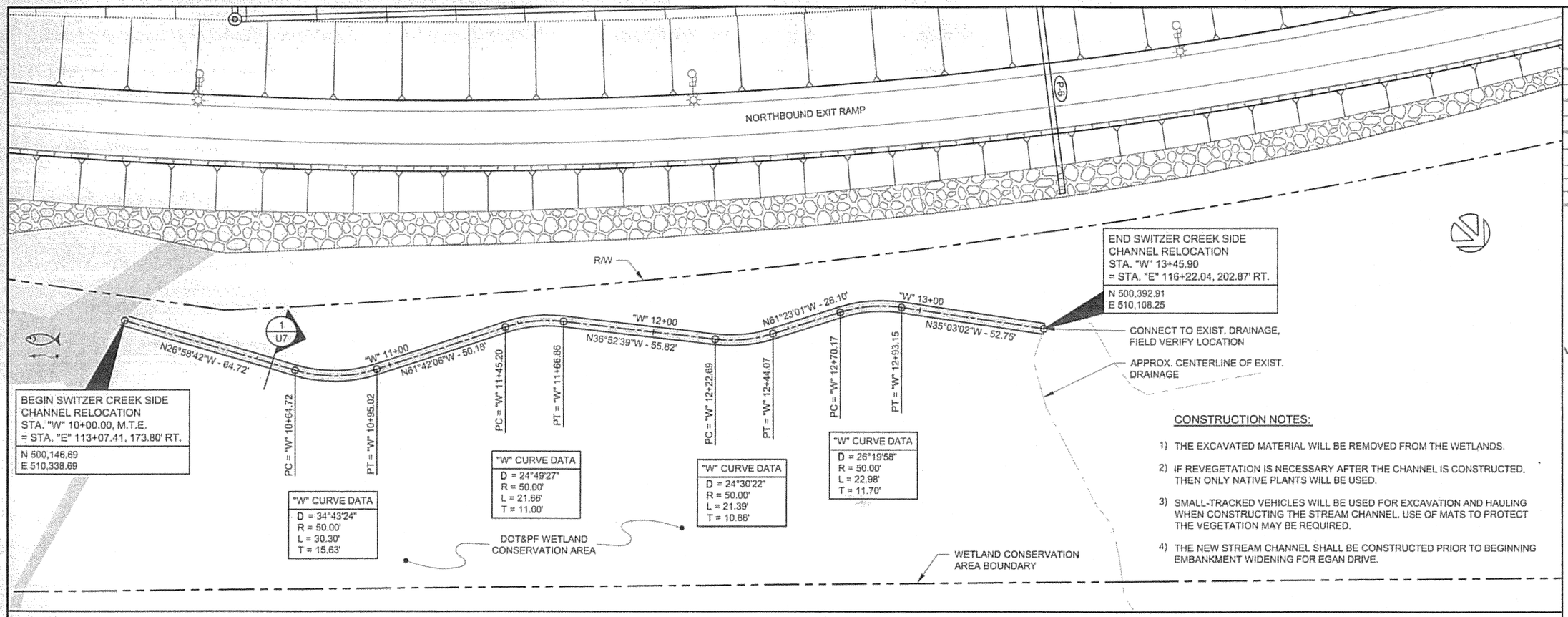
CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

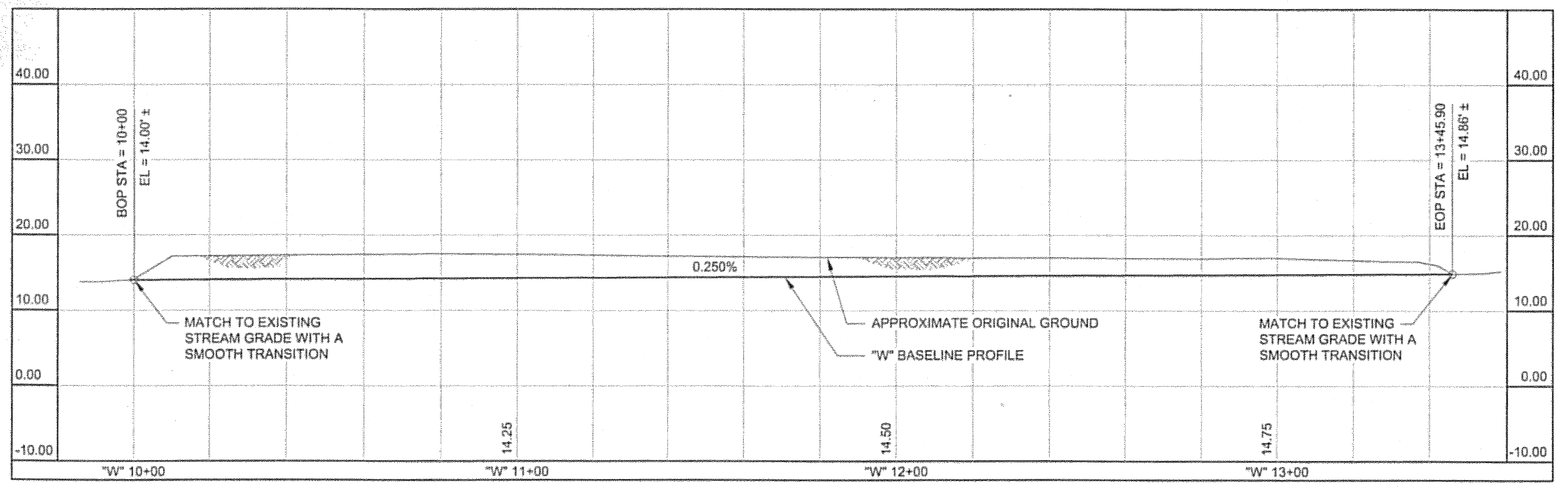
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

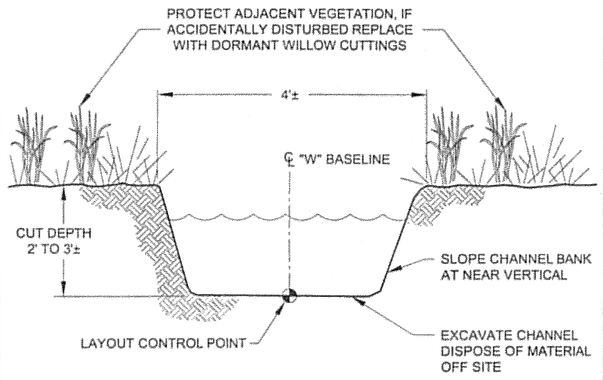
Creek Culverts

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	**2006**
SHEET NUMBER	TOTAL SHEETS
U6	**269**

I:\2005\051365\Design Drawings\U-STREAM SECTIONS.dwg PLOT: August 04, 2006 at: 1:35pm







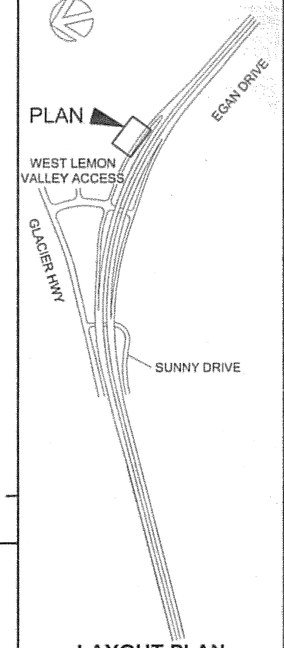
1 TYPICAL SECTION
STA. "W" 10+00 TO "W" 13+45+90
SWITZER SIDE CHANNEL RELOCATION
N.T.S.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH — Joseph M. Pusich CE 8152 — 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

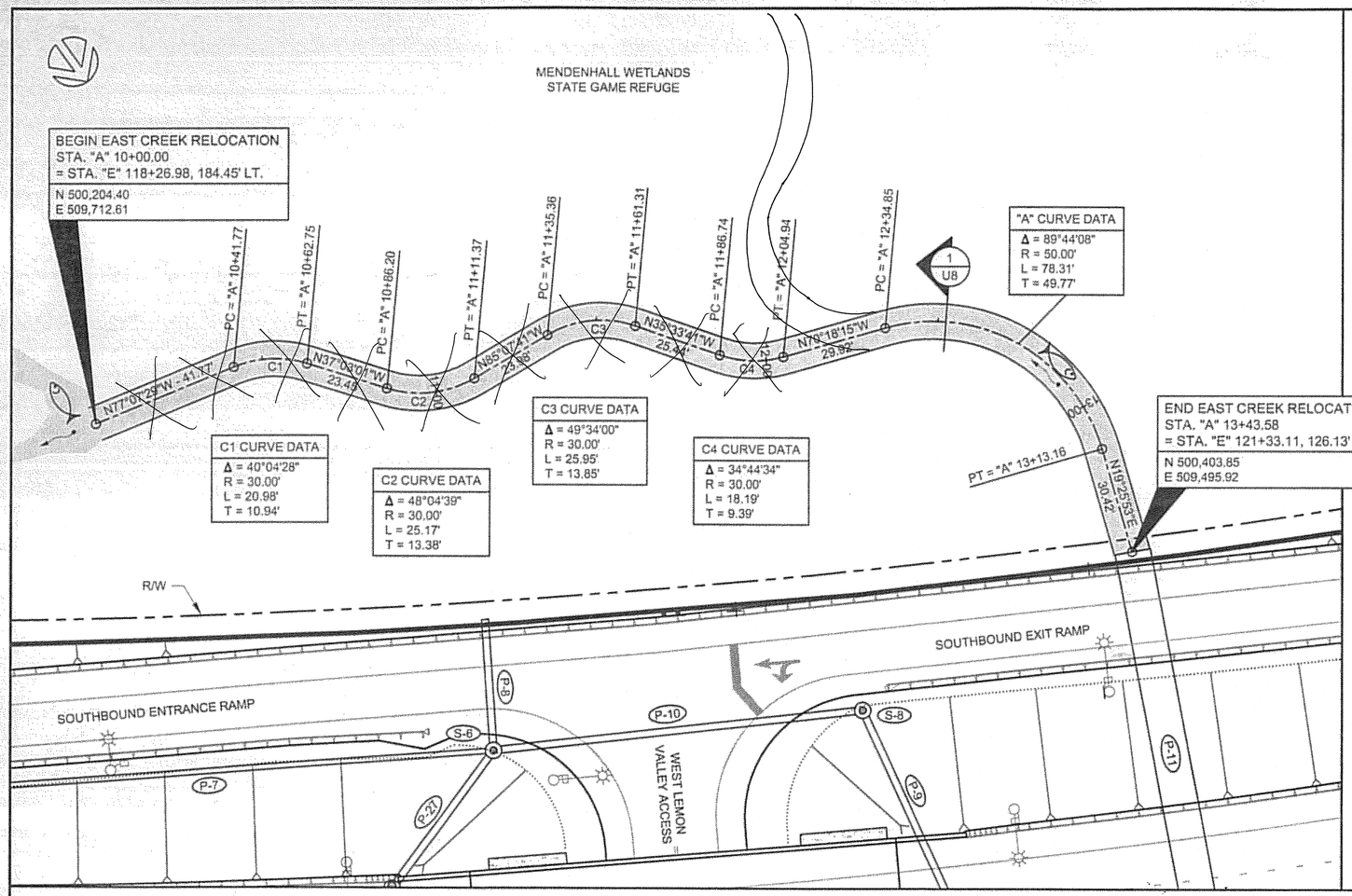
SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

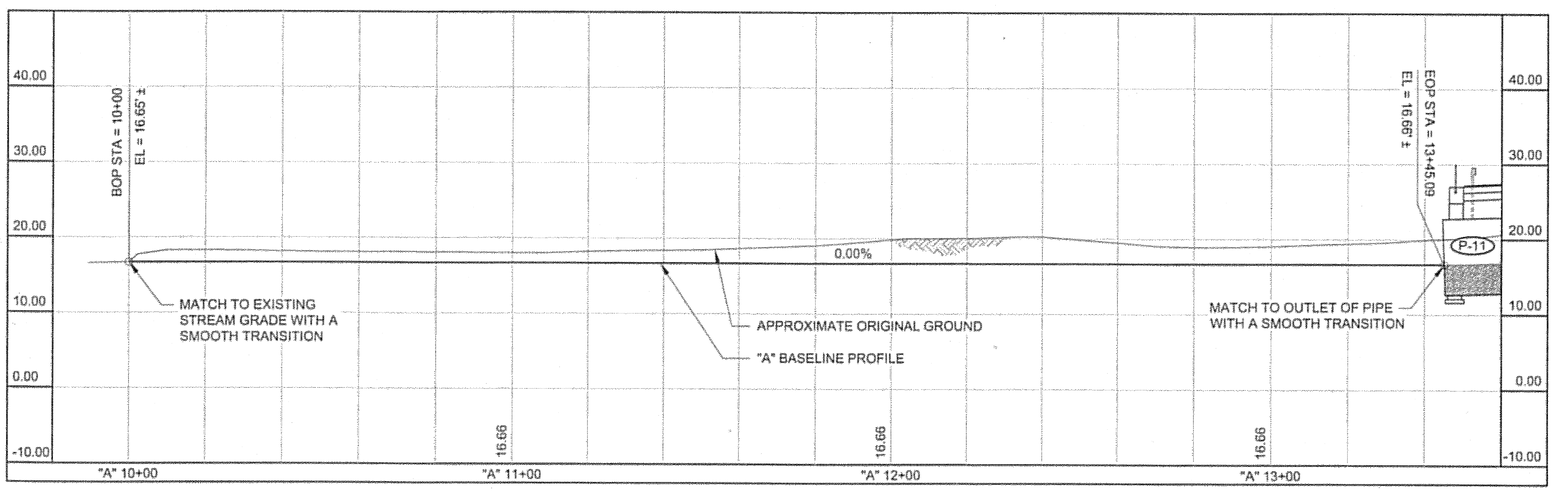
Switzer Creek Side Channel Relocation
PLAN

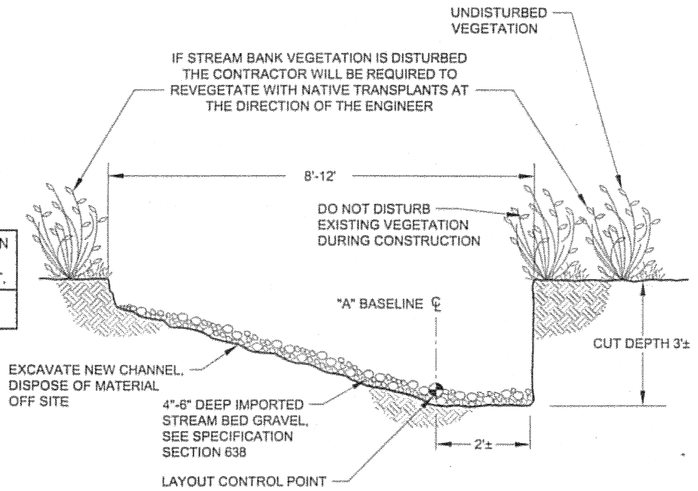
PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U7	269

A:\2005\051363\Design Drawings\CPL051363sps.dwg PLOT: August 04, 2006 at: 2:21pm







1 TYPICAL SECTION
STA. "A" 10+00 TO "A" 13+45.09
EAST CREEK RELOCATION
N.T.S.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE T. Hoppes Date 6/19/06

CONSTRUCTION NOTES:

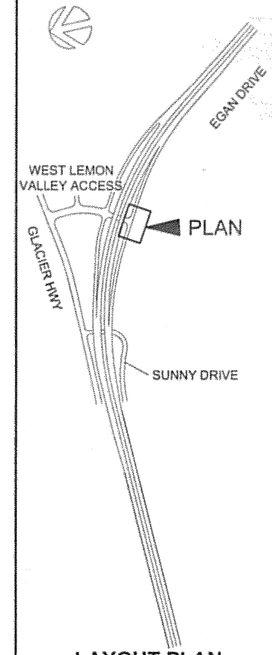
1) PRIOR TO CONSTRUCTION OF THE NEW EAST CREEK CHANNEL, THE WIDTH AND COURSE OF THE NEW CHANNEL SHALL BE CLEARLY MARKED IN THE FIELD. THE CONTRACTOR MUST NOTIFY THE ENGINEER THAT THE FIELD MARKING HAS BEEN COMPLETED AT LEAST 10 DAYS PRIOR TO HIS SCHEDULED CONSTRUCTION DATE.
2) THE EXCAVATED MATERIAL WILL BE REMOVED FROM THE WETLANDS.
3) IF REVEGETATION IS NECESSARY AFTER THE CHANNEL IS CONSTRUCTED, THEN ONLY NATIVE PLANTS WILL BE USED.
4) SMALL-TRACKED VEHICLES WILL BE USED FOR EXCAVATION AND HAULING WHEN CONSTRUCTING THE STREAM CHANNEL. USE OF MATS TO PROTECT THE VEGETATION MAY BE REQUIRED.
5) THE NEW STREAM CHANNEL SHALL BE CONSTRUCTED PRIOR TO BEGINNING EMBANKMENT WIDENING FOR EGAN DRIVE.
6) ALL WORK WITHIN THE MENDENHALL WETLANDS STATE GAME REFUGE SHALL BE COMPLETED BETWEEN NOVEMBER 1 TO MARCH 15 DURING 2006 OR 2007.
7) THE NEW EAST CREEK CHANNEL WITHIN THE REFUGE SHALL BE CONSTRUCTED FROM THE DOWNSTREAM END TO THE UPSTREAM END. EQUIPMENT USED TO EXCAVATE THE CHANNEL, HAUL DREDGE SPOILS AWAY AND INSTALL THE STREAM BED MATERIALS SHALL USE THE IDENTIFIED STREAM COURSE AS THE ROUTE OF TRAVEL. CONSTRUCTION ON THE NEW CREEK CHANNEL MUST BE COMPLETED WITHIN THE LIMITS OF THE IDENTIFIED STREAM CORRIDOR.
8) THE CONTRACTOR SHALL NOT SERVICE OR FUEL EQUIPMENT WITHIN THE BOUNDARIES OF THE MENDENHALL WETLANDS STATE GAME REFUGE. THE CONTRACTOR SHALL NOT USE ANY EQUIPMENT IN THE REFUGE IF IT IS LEAKING FUEL, OIL, HYDRAULIC FLUID OR OTHER POLLUTANTS.
9) THE CONTRACTOR SHALL RESTRICT STREAM CROSSING TO THOSE ESSENTIAL TO COMPLETE THE WORK. CROSSINGS MUST BE MADE ONLY AT LOCATIONS WITH GRADUALLY SLOPING BANKS AND MADE FROM BANK TO BANK IN A DIRECTION SUBSTANTIALLY PERPENDICULAR TO THE DIRECTION OF STREAM FLOW. ANY STREAM CROSSINGS MUST BE IMMEDIATELY STABILIZED TO PREVENT EROSION AND SEDIMENTATION OF THE STREAM.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	-

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA
49TH
Joseph M. Pusich
CE 8152
8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

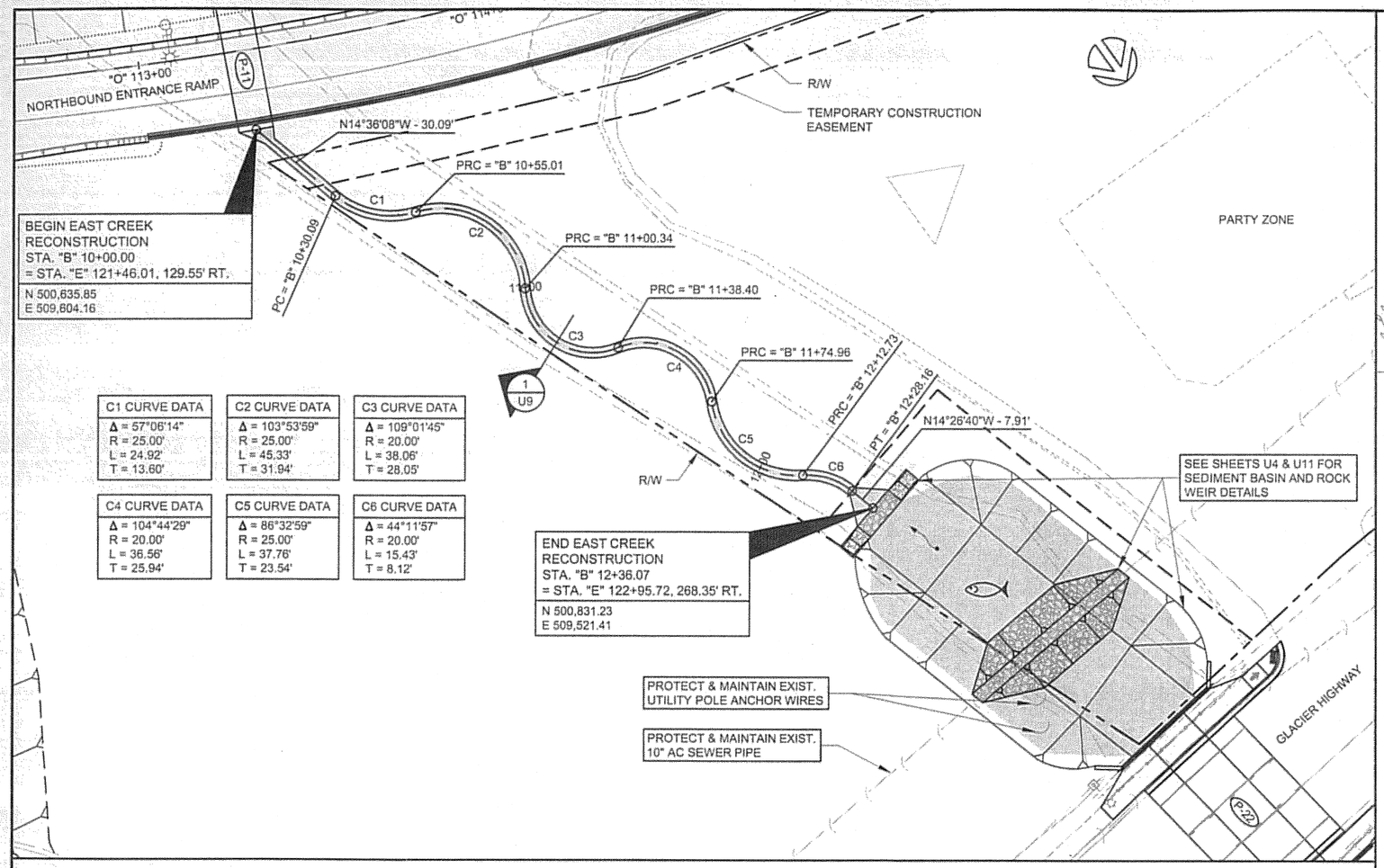
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION- SE REGION

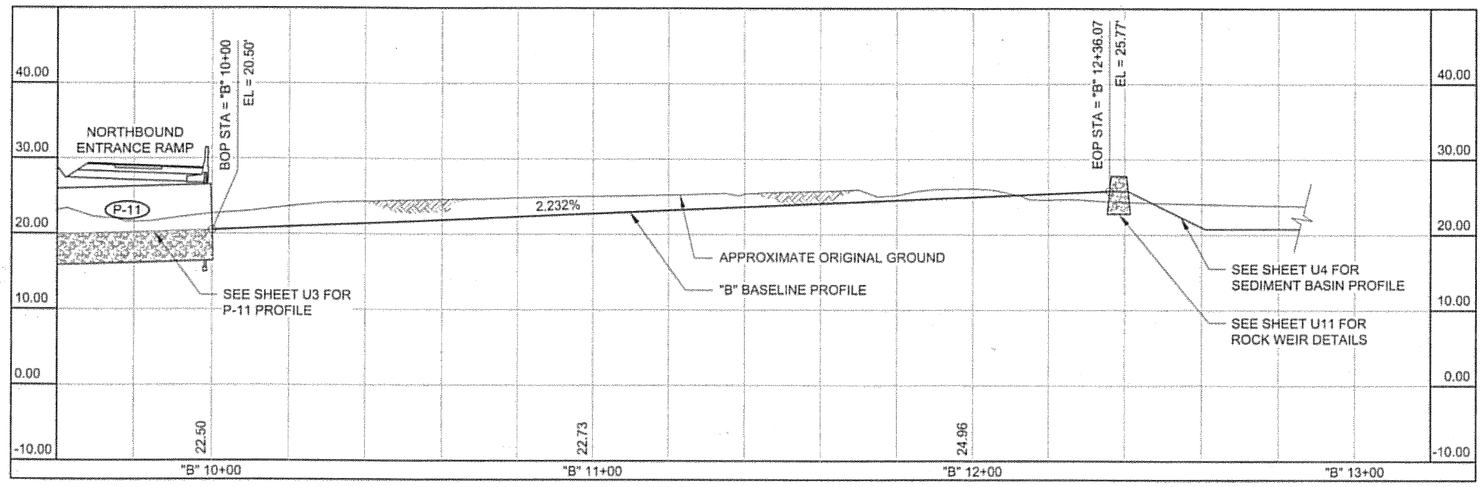
SUNNY POINT
INTERSECTION IMPROVEMENTS
PROJECT No. 71431

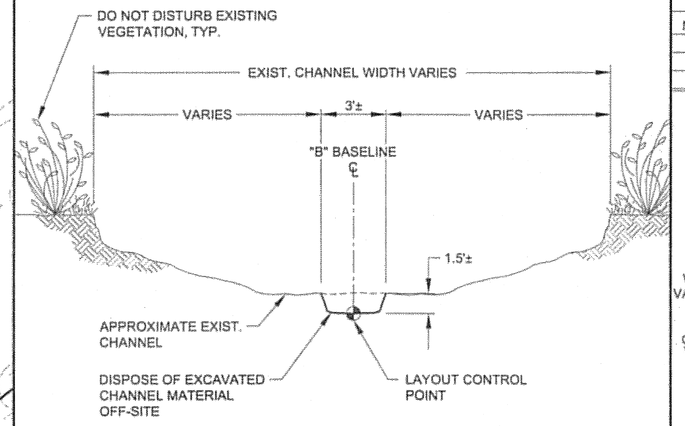
East Creek Relocation
PLAN

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U8	269

A:\2003\051365\Design Drawings\EPI_051365sp.dwg PLOT: August 04, 2006 at: 2:21pm







1 TYPICAL SECTION
STA. "B" 10+00 TO "B" 12+36.07
EAST CREEK RECONSTRUCTION
N.T.S.

CONSTRUCTION NOTES:

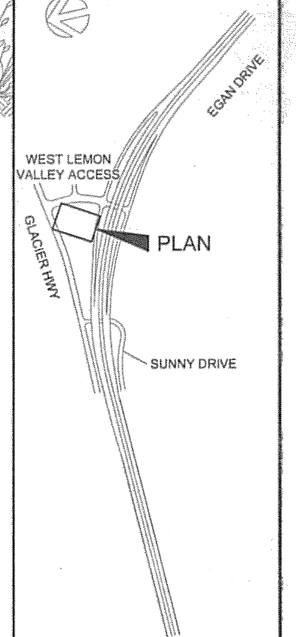
1) THE EXCAVATED MATERIAL WILL BE DISPOSED OF OFF-SITE.
2) THE CONTRACTOR SHALL NOT SERVICE OR FUEL EQUIPMENT WITHIN EAST CREEK. THE CONTRACTOR SHALL NOT USE ANY EQUIPMENT IN EAST CREEK IF IT IS LEAKING FUEL, OIL, HYDRAULIC FLUID OR OTHER POLLUTANTS.

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



LAYOUT PLAN
KEY MAP

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH
Joseph M. Pusich CE 8152
PROFESSIONAL ENGINEER
9-7-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

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

SUNNY POINT INTERSECTION IMPROVEMENTS
PROJECT No. 71431

East Creek Reconstruction
PLAN

PROJECT DESIGNATION NUMBER
STP-093-2(31)~71431

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
U9	269

I:\2005\051651\Design Drawings\EP\051651sp.dwg PLOT: September 06, 2006 at: 3:21pm

GENERAL NOTES

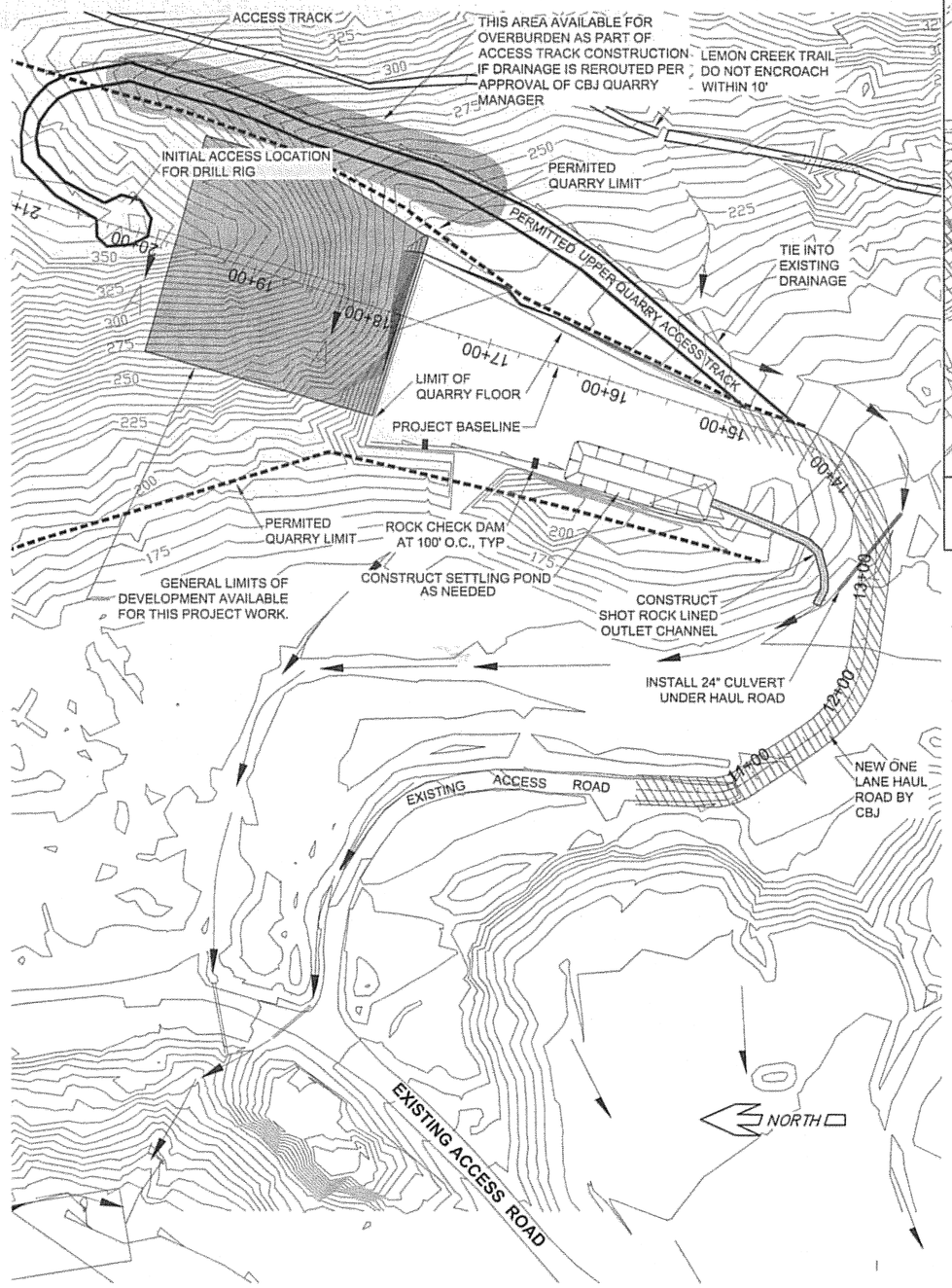
1) ACTIVITIES WITHIN THE QUARRY SHALL BE MANAGED BY THE CITY & BOROUGH OF JUNEAU (CBJ) QUARRY MANAGER PRIOR TO CLEARING OR EXCAVATION.
2) ALL OVERBURDEN SHALL BE REMOVED TO A MINIMUM DISTANCE OF 15' FROM THE FINISHED WORKING FACE.
3) THE CUTBANK OF THE OVERBURDEN SHALL BE SLOPED TO THE NATURAL ANGLE OF REPOSE, BUT SHALL BE NO STEEPER THAN 1 TO 1.
4) ALL DEAD TREES AND SNAGS WHICH ARE SUFFICIENTLY TALL TO REACH THE WORK AREA SHALL BE FELLED.
5) ALL OVERBURDEN, CLEARING MERCHANTABLE TIMBER AND GRUBBING DEBRIS SHALL BE DISPOSED OF OFF SITE, OR AS DIRECTED BY THE CBJ QUARRY MANAGER.
6) THE QUARRY SHALL BE LEFT IN A NEAT, ORDERLY AND WELL DRAINED CONDITION. ALL OVERHANGS AND LOOSE ROCK SHALL BE REMOVED.
7) AFTER EXCAVATION IS COMPLETE, THE AREA SHALL BE CLEANED UP AND LEFT AS SHOWN ON THE QUARRY USAGE PLAN.
8) ALL MATERIALS LEAVING THE QUARRY LIMITS SHALL BE CONTAINED WITHIN THE HAULING VEHICLE.
9) ALL DEBRIS FROM SCREENING OPERATIONS SHALL BE DISPOSED OF OFF SITE, OR AS APPROVED BY THE CBJ QUARRY MANAGER. OVERBURDEN SCREENING IS PROHIBITED.
10) APPROXIMATE LIMITS OF DEVELOPMENT SPECIFIC TO THIS PROJECT WILL BE FIELD STAKED BY THE CITY.
11) THE MATERIALS WITHIN THE QUARRY THAT ARE MADE AVAILABLE TO THE CONTRACTOR FOR THIS PROJECT, MAY NOT MEET THE MATERIAL SPECIFICATIONS FOR THIS PROJECT WITHOUT PROCESSING EFFORTS BY THE CONTRACTOR. THESE EFFORTS MAY INCLUDE, BUT ARE NOT LIMITED TO, SCREENING AND SORTING, DISCARDING AND PRIMARY CRUSHING.
12) MATERIAL STOCKPILED OFF-SITE MUST HAVE PRIOR APPROVAL OF THE DOT&PF ENGINEER.
13) ALL THE REQUIREMENTS AND CONDITIONS OF CONDITIONAL USE PERMIT NUMBER USE 2006-0024 AND ACOE PERMIT NUMBER POA-2006-318-4, SHALL BE MET. IN PARTICULAR, NOTE THE CONDITIONS WITH REGARD TO BLASTING, STORM WATER DRAINAGE, NOISE MANAGEMENT PLAN AND TRAFFIC CONTROL PLAN.
14) THE CONTRACTOR SHALL COORDINATE EXTRACTION ACTIVITY WITH OTHER CONTRACTORS WHO MAY BE USING THE SITE PER SPECFICATION SECTION 106 AND CBJ CONDITIONAL USE PERMIT NUMBER USE 2006-00024.
15) COMPRESSION BRAKES SHALL BE USED ONLY AS NECESSARY FOR SAFETY AND SHALL MEET THE REQUIREMENTS OF THE NOISE MANAGEMENT PLAN.
16) ALL QUARRY OPERATIONS SHALL BE RESTRICTED TO THE FOLLOWING TIME PERIODS: MONDAY THROUGH SATURDAY FROM 7:00 AM - 6:30 PM. BLASTING IS RESTRICTED TO 1:30 PM - 4:30 PM, MONDAY THROUGH FRIDAY.
17) AREA SURVEYED JAN 2006.
18) THE CONTRACTOR SHALL SUBMIT A $10,000 CASH BOND TO THE CBJ PRIOR TO CONDUCTING ROCK PROCESSING WITHIN THE QUARRY PROJECT MINING AREA.
19) ACCESS TO OTHER MINING AREAS MUST BE MAINTAINED THROUGH THE QUARRY FLOOR.
20) RELOCATE EQUIPMENT ACCESS IF REMOVAL IS NECESSARY.
21) FINAL PAYMENT SHALL NOT BE PAID UNTIL THE QUARRY IS RESTORED PER THE INDIVIDUAL MINING PLAN.
22) THE CONTRACTOR SHALL COMPLY WITH ALL MINING SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS.
23) WARNING SIGNS WITH THE TIME AND DATE OF EACH BLAST WILL BE POSTED 24 HOURS PRIOR TO BLASTING WHERE THE STREETS INTERSECT WITH GLACIER HIGHWAY AT ANKA STREET, DAVIS AVENUE AND CENTRAL STREET AND AT THE LEMON CREEK TRAILHEAD.
24) THE QUARRY ACCESS ROADS SHALL BE CLEANED AS DIRECTED BY THE CBJ QUARRY MANAGER. PAYMENT FOR CLEANING THE QUARRY ACCESS IS SUBSIDIARY TO USING THE QUARRY. PAYMENT FOR CLEANING ROADS USED BY THE PUBLIC SHALL BE UNDER PAY ITEM 643(25).
25) THE LEMON CREEK TRAIL SHALL BE CLOSED DURING THE BLAST - THE TRAIL MUST BE CHECKED PRIOR TO AND AFTER BLASTING.

INDIVIDUAL MINING PLAN

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE CBJ QUARRY MANAGER PRIOR TO BEGINNING ANY OPERATIONS WITHIN THE QUARRY LIMITS.

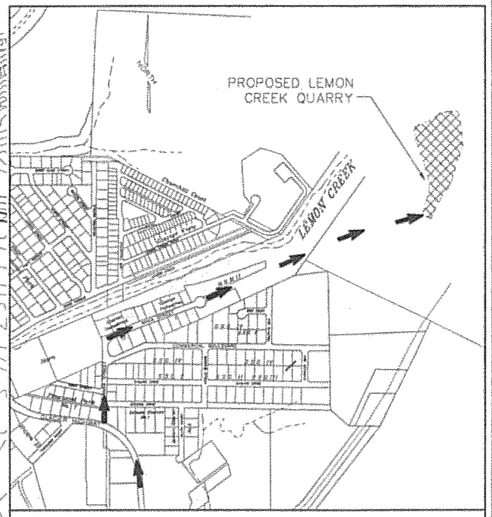
OPERATIONS SHALL NOT PROCEED UNTIL THE CONTRACTOR'S INDIVIDUAL MINING PLAN HAS BEEN APPROVED BY THE CBJ QUARRY MANAGER.

A) MINING PLAN - INCLUDE PLANNED TOTAL EXCAVATION QUANTITY, PLANNED SECTION (SEE SAMPLE CROSS SECTION A-A), EXCAVATION LIMITS, CLEARING AND GRUBBING LIMITS.
B) NOISE CONTROL PLAN AND EQUIPMENT SOUND CERTIFICATIONS.
C) STRIPPING / OVERBURDEN DISPOSAL PLAN.
D) DRAINAGE AND STORM WATER POLLUTION PLAN.
E) RECLAMATION PLAN.
F) ALL CONTRACTOR INDIVIDUAL MINING PLANS FOR REMOVAL OF MATERIAL FROM THE QUARRY SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ALASKA.
G) EACH TRUCK SHALL RECORD IT'S LOAD WEIGHT ON A CBJ SCALE TICKET PRIOR TO LEAVING THE QUARRY.
H) THE MANAGEMENT FEE FOR THE SUNNY POINT PROJECT IS $0.60/TON.
I) ALL CONTRACTORS MUST BE IN GOOD STANDING WITH THE CITY AND BOROUGH OF JUNEAU.
J) THE DOT&PF ENGINEER SHALL OBTAIN CONFIRMATION FROM THE CBJ QUARRY MANAGER THAT ALL MATERIAL FEES HAVE BEEN PAID PRIOR TO MAKING FINAL PAYMENT TO THE CONTRACTOR.
K) IF THE CONTRACTOR ELECTS TO USE THIS MATERIAL SOURCE FOR THIS PROJECT, ESTIMATES OF QUANTITIES AND A MINING PLAN MUST BE SUBMITTED TO THE CBJ QUARRY MANAGER WITHIN TWO WEEKS OF NOTICE TO PROCEED.
L) THE CONTRACTOR IS RESPONSIBLE FOR QUARRY SECURITY, DURING NORMAL OPERATING HOURS. THE CITY IS RESPONSIBLE FOR NIGHTIME SECURITY FROM MARCH 1 TO OCTOBER 15. THE CONTRACTOR IS RESPONSIBLE FOR BOTH DAYTIME & NIGHTIME SECURITY FOR ANY USE OF THE QUARRY BETWEEN OCTOBER 15 AND APRIL 30.
M) TRAFFIC CONTROL PLAN REQUIRED FOR HAULING GREATER THAN 75,000 CY.



QUARRY SITE DEVELOPMENT PLAN

60 30 0 60 120 180
SCALE IN FEET
CONTOUR INTERVAL= 5 FEET



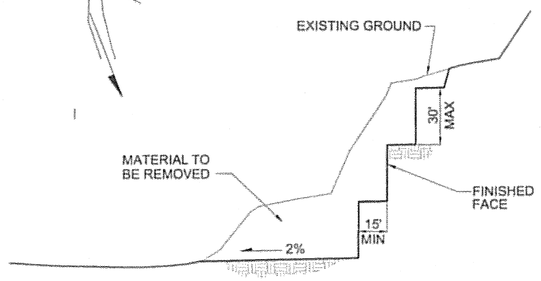
VICINITY MAP
N.T.S.

SYMBOLS

- DRAINAGE FLOW DIRECTION
- ROCK CHECK DAM
- 225 EXISTING CONTOUR INTERVAL

NOTES

HAUL ROAD BEYOND STA. 15+00, UPPER QUARRY ACCESS TRACK, AND OTHER QUARRY IMPROVEMENTS TO BE CONSTRUCTED BY CONTRACTOR.



SAMPLE SECTION A-A

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

ADDENDUM NUMBER	
ATTACHMENT NUMBER	

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

SUNNY POINT
INTERSECTION IMPROVEMENTS
STP-093-2(31)~71431

CBJ Upper Lemon Creek Valley Rock Quarry Usage Plan

PREPARED BY: R&M ENGINEERING, INC.
DESIGNED BY: K. PUUSTINEN

STATE OF ALASKA 49TH Joseph M. Pusich CE 8152 8-4-06

CHECKED BY: J.M. PUSICH
DRAWN BY: STAFF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION- SE REGION
SUNNY POINT INTERSECTION IMPROVEMENTS PROJECT No. 71431

CBJ Upper Lemon Creek Valley Rock Quarry Usage Plan

PROJECT DESIGNATION NUMBER	
STP-093-2(31)~71431	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
W1	269

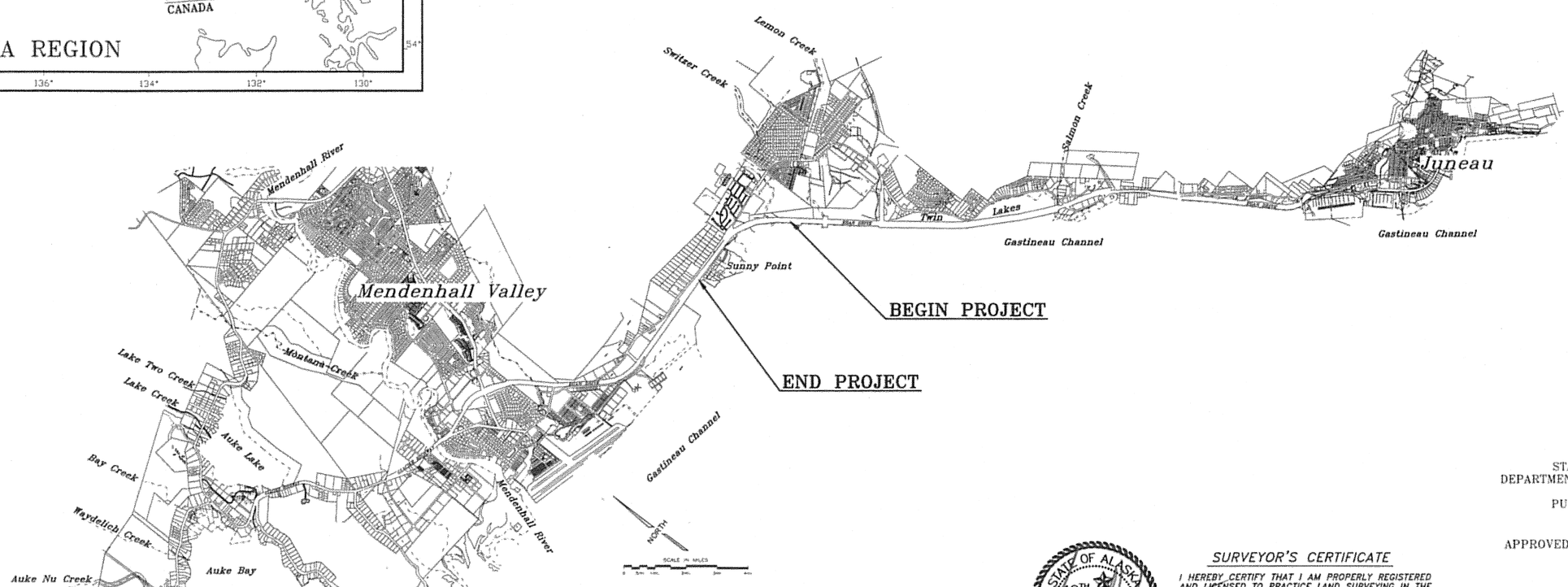
F:\2005\051365\Design Drawings\W-Mining Plans.dwg PLOT: August 04, 2006 at: 3:08pm



SOUTHEAST ALASKA REGION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

SOUTHEAST REGION
RIGHT OF WAY MAP
ALASKA PROJECT No. 71431
STP-093-2(31)
JUNEAU SUNNY POINT
INTERSECTION IMPROVEMENTS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

APPROVED _____, 20 _____
Date

_____
CHIEF RIGHT OF WAY AGENT
SOUTHEAST REGION

STATE OF ALASKA
49TH
MARK A. JOHNSON
LS | 7570
REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF ALASKA, AND THAT THIS PLAT REPRESENTS AN OFFICE SURVEY MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THE MONUMENTS SHOWN THEREON ACTUALLY EXIST AS DESCRIBED, AND THAT ALL DIMENSIONS AND DETAILS ARE CORRECT.

RECOVERED MONUMENTS – SHEETS 3 THRU 9

LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET
SHEET 3					
NW CNR. ACCRETION TR.1	PROP. COR. MONUMENT	499,911.21	510,707.17		
EGAN DRIVE	C/L MONUMENT	499,635.14	510,536.88	"E" 242+92.22	0.00'
SHEET 4					
SE CNR. LOT 2B USS 2121	3.25" A.C.	500,489.29	509,789.75	"E" 254+07.58	110.14 RT.'
SW CNR. FR. USS 2121	3.25" A.C.	500,483.70	510,150.97		
SHEET 5					
GLACIER HWY.	C/L MONUMENT			"G" 315+00.00	0.34 LT.'
SUNNY POINT DR.	C/L MONUMENT	500,552.16	508,921.35	"S" 12+34.61	0.00'
EGAN DRIVE	C/L MONUMENT	500,710.54	509,045.00	"E" 261+64.48 "S" 10+00.16	0.16 LT.' 0.00'
SUNNY POINT DR.	C/L MONUMENT	500,599.06	509,015.89	"S" 11+15.39	0.00'
GLACIER HWY.	C/L MONUMENT	500,950.51	509,196.94	"G" 313+16.84	0.00'
NW CNR. TR.1 USS 2121	3.5" A.C._BENT	500,914.79	509,200.20	"G" 313+13.58	35.72 LT.'
NW TR.1 USS 2121	PLASTIC CAP	500,879.03	509,200.14	"G" 313+13.64	71.47 LT.'
SW CNR. TR.1 USS 2121	PLASTIC CAP	500,783.11	509,193.93	"E" 260+48.07	115.38 RT.'
PT TR.1 USS 2121	PLASTIC CAP	500,916.86	509,348.67	"G" 311+66.91	36.11 LT.'
SW TR.2B USS 2121	3.5" A.C.	500,568.16	509,657.06	"E" 255+56.25	110.16 RT.'
SHEET 6					
EGAN DRIVE	C/L MONUMENT	500,836.41	508,153.59	"E" 270+68.50	0.00'
SUNNY POINT DR.	C/L MONUMENT	500,738.37	508,155.04	"S" 20+30.59	0.05 LT.'
NE CNR. TR. A	3.25" A.C.	500,668.51	508,174.94	"S" 20+11.01	70.13 LT.'
SUNNY POINT DR.	C/L MONUMENT	500,626.10	508,743.72	"S" 14+27.02	0.00'
SHEET 7					
SW CNR. LOT 4 USS 3258	3.25" A.C.	501,002.55	507,178.33	"G" 333+35.02	47.09 RT.'
NW CNR. LOT 1 USS 2434	3.25" A.C.	500,667.62	507,210.45	"S" 29+76.29	54.04 LT.'
NE CNR. LOT 5B USS 2434	3.25" A.C.	500,675.12	507,647.83	"S" 25+38.85	54.30 LT.'
SW CNR. LOT 7 USS 3258	3.25" B.C.	501,001.88	507,673.61	"G" 328+39.86	41.11 RT.'
GLACIER HWY.	C/L MONUMENT	500,961.76	507,763.95	"G" 327+50.04	0.57 RT.'
SHEET 8					
GLACIER HWY.	C/L MONUMENT	500,962.66	506,299.16	"G" 342+14.99	0.00'
	3.25" A.C.	500,706.76	506,466.70	"E" 287+57.43	99.72 LT.'
USS 2476	3.25" A.C.	500,988.40	506,517.75	"G" 339+97.14	35.88 RT.'
LOT 7 USS 2434	2.5" B.C.	500,523.77	506,658.11	"S" 35+31.09	188.08 LT.'
GLACIER HWY.	C/L MONUMENT	500,950.69	506,734.95	"G" 337+78.93	0.00'
LOT 2 USS 3258	3.25" A.C.	501,002.95	506,874.20	"G" 336+39.12	50.76 RT.'
EGAN DRIVE	C/L MONUMENT	500,817.21	507,072.41	"E" 281+49.86	0.03 RT.'
SHEET 9					
GLACIER HWY.	C/L MONUMENT	500,952.86	509,346.87	"G" 311+66.87	0.06 LT.'
TR.1 USS 2121	PLASTIC CAP	500,916.86	509,348.67	"G" 311+66.91	36.11 LT.'
GLACIER HWY.	C/L MONUMENT	500,950.25	509,381.21	"G" 311+32.83	4.84 LT.'
GLACIER HWY.	C/L MONUMENT	500,958.00	509,414.66	"G" 310+98.88	0.01 LT.'
TR.1 USS 2121	SURVEY SPIKE	500,922.09	509,418.19	"G" 310+98.90	36.09 LT.'
NW CNR. TR.2B USS 2121	3.25" A.C.	500,932.82	509,498.74	"G" 310+19.11	35.20 LT.'
GLACIER HWY.	C/L MONUMENT	500,977.94	509,563.26	"G" 309+48.94	0.03 LT.'
TR.2B USS 2121	PLASTIC CAP	500,942.64	509,568.85	"G" 309+48.72	35.78 LT.'
TR.2B USS 2121	REBAR	500,957.12	509,717.27	"G" 307+99.82 "O" 25+72.34	43.82 LT.' 94.61 LT.'
NW CNR. TR.2A USS 2121	REBAR	500,983.36	509,890.80	"G" 306+24.31 "O" 25+72.98	44.01 LT.' 80.89 RT.'
SE CNR. TR.2B USS 2121	3.25" A.C.	500,636.61	510,002.78	"O" 22+91.03	209.71 RT.'
GLACIER HWY.	C/L MONUMENT	501,045.08	510,003.76	"G" 305+03.35	0.00'
SE CNR. TR.2B USS 2121	REBAR	500,680.92	510,066.89	"O" 23+32.64	261.85 RT.'

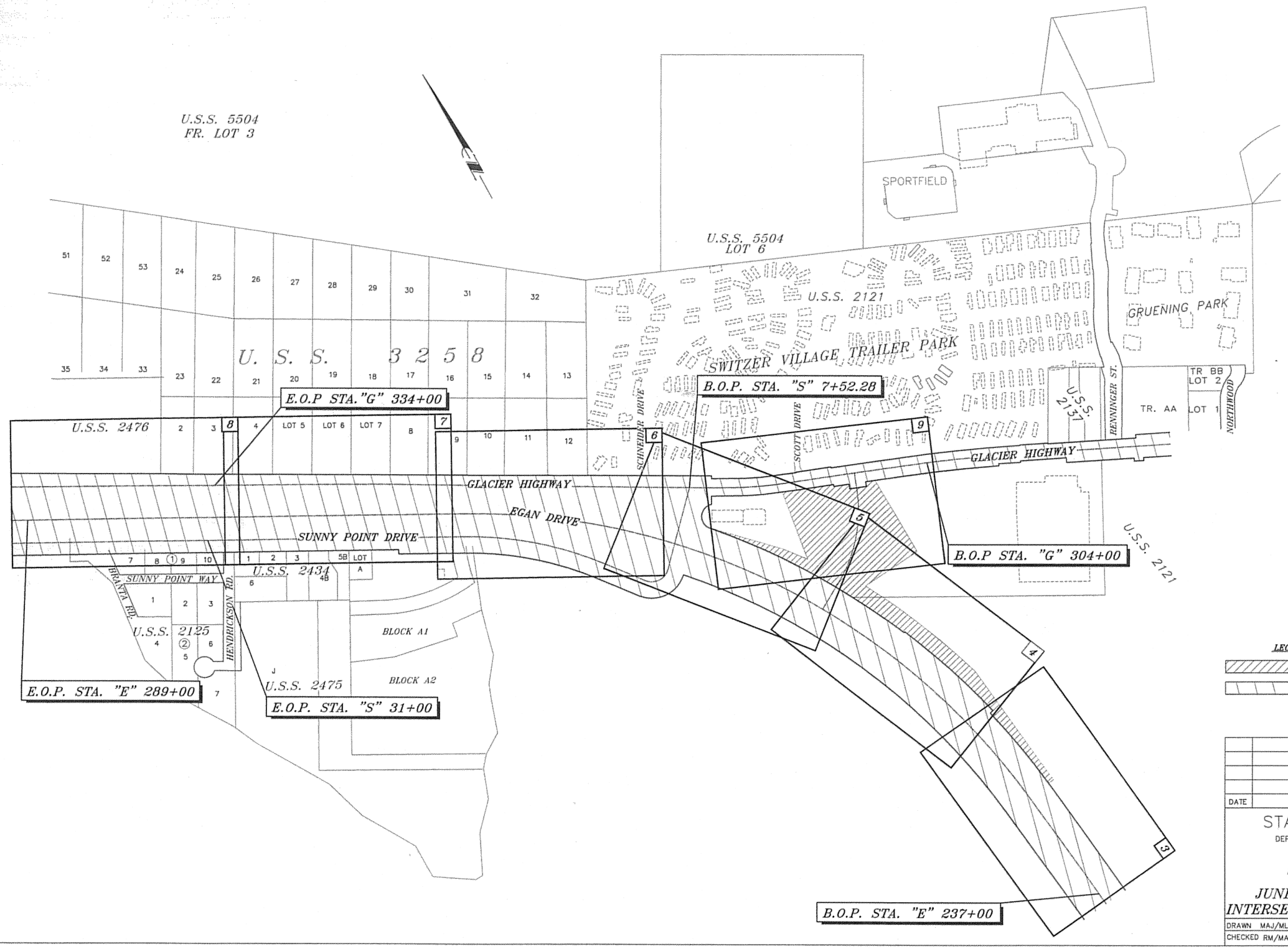
DATE	REVISIONS	BY

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y10 OF 269



LEGEND

RIGHT OF WAY TO BE ACQUIRED

EXISTING RIGHT OF WAY LIMITS

DATE	REVISIONS	BY

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'	
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y2	OF 269

FR. U.S.S. 2121

S44°10'22"E-798.19'

715.34'

82.85'

P/L

S72°20'22"W
28.49'

WETLANDS CONSERVATION AREA BOUNDARY

WETLANDS CONSERVATION AREA PER PROJECT ENVIRONMENTAL COMMITMENTS

LEASE TRACT STATE OF ALASKA
S&S DEVELOPMENT (LESEE)

3A

S3°51'30"E-379.34'

ACCRETION TR. 1
PLAT #656, JUNEAU
RECORDING DISTICT

EXISTING DIKE

S85°04'32"W-154.90'

"E" STA 242+92.00
125.00 Rt.'

N35°18'50"W-567.35'
R/W

N54°31'01"E
25.00'

3

B.O.P. STA. "E" 237+00

R=2964.79'

L=385.79'

N35°28'59"W-196.84'

EXISTING R/W

S35°28'59"E-1,992.07'

"E" STA 242+92.00
100.00 Rt.'

"E" STA 240+95.16
100.00 Rt.'

"E" C/L CURVE DATA
DELTA=55°31'58"
R=2864.79'
L=2776.64'
T=1508.28'

MENDENHALL VALLEY

EGAN DRIVE OUTBOUND

245+00 244+00 243+00 242+00 241+00 240+00 239+00 238+00 237+00

N35°28'59"W-3,403.23'

PC "E" STA 242+92.00

EGAN DRIVE INBOUND

JUNEAU

MATCHLINE SHT 4

R=2749.79'

L=1722.38'

"E" STA 242+92.00
115.00 Lt.'

EXISTING R/W

S35°28'59"E-692.23'

EXISTING R/W

N35°13'03"W
0.21'

N35°28'59"W-3,403.23'

"E" C/L CURVE DATA
DELTA=55°31'58"
R=2864.79'
L=2776.64'
T=1508.28'

PC "E" STA 242+92.00
N=499,634.97
E=510,537.00

MENDENHALL WETLANDS STATE GAME REFUGE

GRAPHIC SCALE
0' 15' 30' 60' 120'

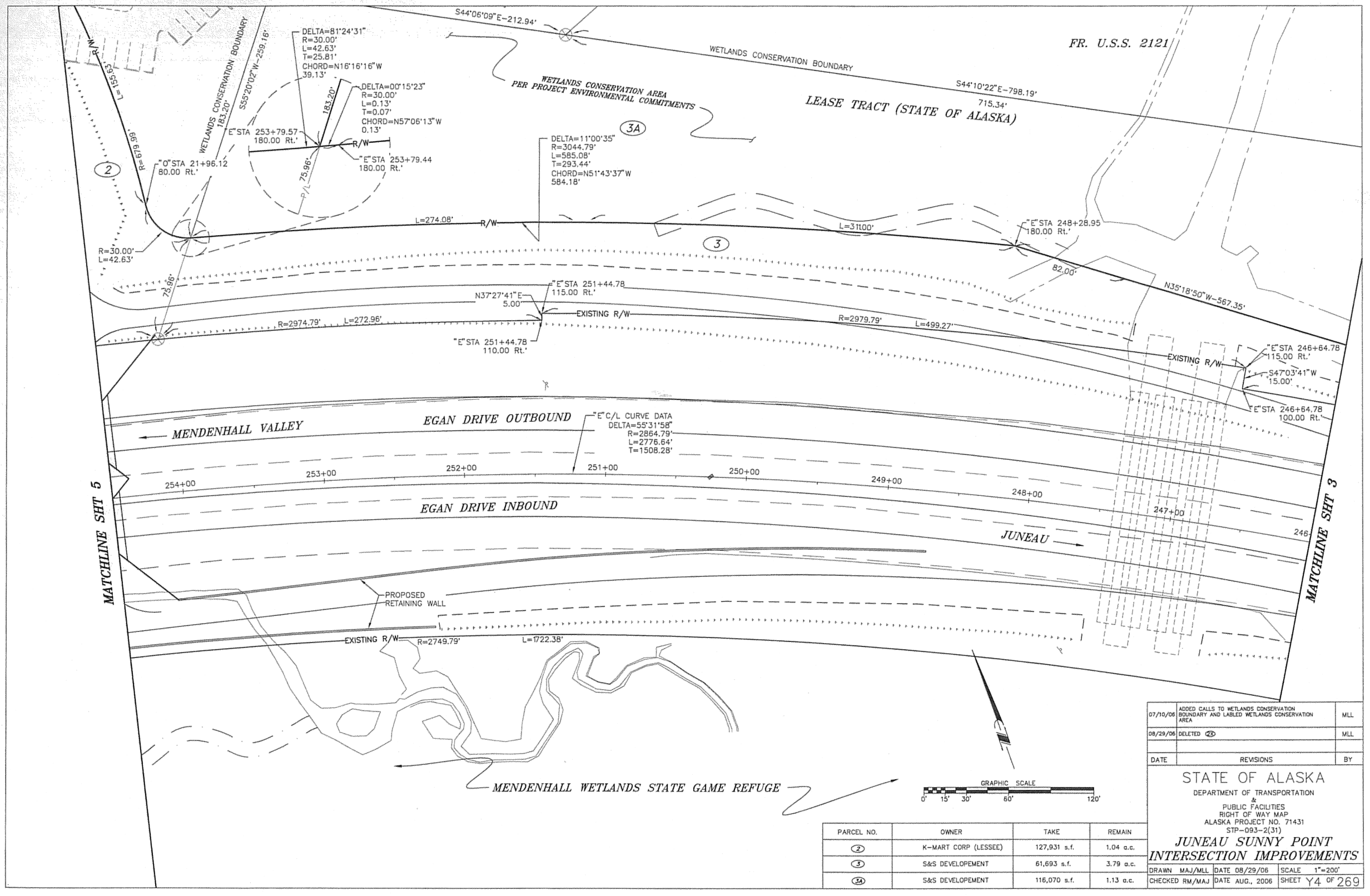
PARCEL NO.	OWNER	TAKE	REMAIN
3	STATE OF ALASKA	61,693 s.f.	3.79 a.c.
3A	S&S DEVELOPEMENT	116,070 s.f.	1.13 a.c.

DATE	REVISIONS	BY
07/10/06	ADDED CALLS TO WETLANDS CONSERVATION BOUNDARY AND LABLED WETLANDS CONSERVATION AREA	MLL
08/29/06	CHANGE 3A TO STATE OF ALASKA	MLL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y3 OF 269



PARCEL NO.	OWNER	TAKE	REMAIN
2	K-MART CORP (LESSEE)	127,931 s.f.	1.04 a.c.
3	S&S DEVELOPEMENT	61,693 s.f.	3.79 a.c.
3A	S&S DEVELOPEMENT	116,070 s.f.	1.13 a.c.

DATE	REVISIONS	BY
07/10/06	ADDED CALLS TO WETLANDS CONSERVATION BOUNDARY AND LABLED WETLANDS CONSERVATION AREA	MLL
08/29/06	DELETED (2B)	MLL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y4 OF 269

SWITZER VILLAGE TRAILER PARK

"G" STA 313+13.62
50.12 Rt.'

S89°56'11"E-536.97'

S0°03'53"W-
12.00'

"G" STA 313+13.56
38.11 Rt.'

GLACIER HIGHWAY

N85°42'35"E
70.86'

312+00

"G" C/L CURVE DATA
DELTA=00°37'20"
R=22,918.31'
L=248.84'
T=124.42'

BASIS OF STATIONING
AS-BLT. P.T./A.P."G" 313+17.11=
P.T."L" 313+17.11 [RS-0955(1)]=
P.T."L" 313+17.11 [FM-0955(3)]
N=500,950.51
E=509,196.94

313+00

EXISTING R/W

N89°03'55"E-148.18'

EXISTING R/W

S84°50'40"W-308.24'

E-1

2

GLACIER HIGHWAY

314+00

S89°54'27"W
58.34'

315+00

BOP "S" STA 7+52.28=
"G" STA 314+06.16

B.O.P. STA. "S" 7+52.28

MATCHLINE SHT. 6

8+00

9+00

PC "G" STA 313+17.11

51 "G" Sta 313+17.11

L=104.15'

R=53.00'

35.34'

N40°02'25"E

S86°56'25"W-131.84'

15' ULTILITY
EASEMENT

FORMER
WILLIAMS
EXPRESS

TCE 1

PROPOSED
RETAINING WALL

"E" STA 259+88.27
146.93 Rt.'

N67°14'07"W-102.21'

N67°14'07"W-111.09'

S20°38'47"E
13.77'

"E" STA 258+82.96
154.42 Rt.'

S20°38'47"E-374.50'

293.28'

R/W

"O" C/L CURVE DATA
DELTA=39°11'14"
R=599.99'
L=410.36'
T=213.57'

23+00

22+00

"E" STA 263+05.48
111.00 Rt.'

N73°46'25"W-353.91'

N73°46'25"W-333.26'

R/W

R=53.00'
L=22.60'

R=53.00'
L=10.23'

R=2974.79'

L=478.98'

1

67.45'

PC "O" STA 21+29.47
N=500544.02
E=509737.42

EXISTING R/W

R=2974.79'

L=184.31'

"E" STA 260+46.40
110.00 Rt.'

"E" STA 255+85.14
110.00 Rt.'

21+00

"E" C/L CURVE DATA
DELTA=55°31'58"
R=2864.79'
L=2776.64'
T=1508.28'

MENDENHALL VALLEY

EGAN DRIVE OUTBOUND

262+00

261+00

260+00

259+00

258+00

257+00

256+00

255+00

BASIS OF STATIONING
AS-BLT. P.O.C."E" 261+64.49=
P.O.C."O" 261+64.49 [F-095-8(16)]=
AS-BLT P.O.L."S" 10+00.00=
"F" 10+00.00 [F-095-8(16)]

EGAN DRIVE INBOUND

JUNEAU

"E" STA 254+77.87=
"O" STA 20+00.00
N=500,432.81
E=509,671.12

MATCHLINE SHT. 4

"E" STA 260+86.42
115.00 Lt.'

PC "S" STA 11+14.71

11+00

R=2749.79'

L=1722.38'

EXISTING R/W

"S" STA 11+16.91
70.00 Lt.'

N67°14'56"W
0.67'

N67°24'01"W
192.51'

PT "S" STA 12+35.28
N=500,552.42
E=508,920.73

BASIS OF STATIONING
PC "S" STA 10+00
N=500,710.69
E=509,045.04

S14°37'59"E
0.16'

S14°37'59"W
362.43'

S14°37'59"W
114.71'

S14°39'24"E
0.67'

S14°37'59"W
114.71'

PC "S" STA 11+14.71
N=500,599.71
E=509,016.06

"S" C/L CURVE DATA
DELTA=97°58'01"
R=70.52'
L=120.57'
T=81.07'

"E" C/L CURVE DATA
DELTA=55°31'58"
R=2864.79'
L=2776.64'
T=1508.28'

N67°24'01"W -192.51'

13+00

12+00

SUNNY POINT DRIVE

PT "S" STA 12+35.28

MATCHLINE SHT. 6

MENDENHALL WETLANDS STATE GAME REFUGE

S67°24'01"E-192.51'

EXISTING R/W

R=140.52'

L=235.87'

"S" STA 12+35.28
70.00 Lt.'

GRAPHIC SCALE
0' 15' 30' 60' 120'

		AREA
E-1	S&S DEVELOPEMENT	5,659 s.f.
TCE 1		4,520 S.F.

PARCEL NO.	OWNER	TAKE	REMAIN
1	S&S DEVELOPEMENT	10,787 s.f.	1.65 ac.
2	K-MART CORP (LESSEE)	127,931 s.f.	1.04 a.c.

DATE	REVISIONS	BY
08/29/06	HATCH TCE 1	MLL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y5 OF 269

ALASKA STATE D.O.T./P.F. & ALASKA MARINE HWY.
LOT 9

U. S. S. 3258

LOT 10

LOT 11

LOT 12

MATCHLINE SHT. 7

MATCHLINE SHT. 5

EXISTING R/W

S89°57'42"E-989.65'

PROP. COR. "G" STA 318+50.97 47.76 Lt.'

S89°56'11"E-536.97'

MALLARD ST.

324+00 323+00 322+00 321+00 320+00 319+00 318+00 317+00 316+00

N89°28'14"W -1010.99'

LIFT STATION

GLACIER HIGHWAY

PROPOSED RETAINING WALL

PT "G" Sta = 316+24.28

MENDENHALL VALLEY

EGAN DRIVE OUTBOUND

"E" C/L CURVE DATA
DELTA=55°31'58"
R=2864.79'
L=2776.64'
T=1508.28'

S88°59'03"W -6113.63'

271+00 270+00 269+00 268+00 267+00 266+00 265+00 264+00 263

WEST 0.13'

PT "E" STA 270+68.64

PT "E" STA 270+68.64
N=500,836.41
E=508,153.46

"E" C/L CURVE DATA
DELTA=55°31'58"
R=2864.79'
L=2776.64'
T=1508.28'

EGAN DRIVE INBOUND

PROPOSED RETAINING WALL

"S" C/L CURVE DATA
DELTA=23°36'56"
R=1461.83'
L=602.53'
T=305.60'

JUNEAU

21+00 20+00 19+00 18+00 17+00 16+00 15+00 14+00

SUNNY POINT DRIVE

S79°52'31"W 0.28'

S88°59'03"W 1537.16'

PT "S" STA 20+30.31

"S" C/L CURVE DATA
DELTA=23°36'56"
R=1461.83'
L=602.53'
T=305.60'

PT "S" STA 20+30.31
N=500,738.42
E=508,155.32

"S" STA 20+30.31
70.00 Lt.'

LESLIE AVE.

R=139183'

EXISTING R/W

L=573.67'

PC "S" STA 14+27.79

N67°05'39"W 0.77'

N67°24'01"W

"S" C/L CURVE DATA
DELTA=23°36'56"
R=1461.83'
L=602.53'
T=305.60'

PC "S" STA 14+27.79
N=500,626.40
E=508,743.01

"S" STA 14+27.79
70.00 Lt.'

MATCHLINE SHT. 5

GRAPHIC SCALE
0' 15' 30' 60' 120'

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y6 OF 269

MATCHLINE SHT. 8

U. S. S. 3258

LOT 4 | LOT 5 | LOT 6 | LOT 7 | LOT 8 | LOT 8

"G" C/L CURVE DATA
DELTA=01°08'46"
R=11,459.16'
L=229.20'
T=114.60'

S89°55'19"E-495.28' EXISTING R/W S89°57'42"E-989.65'

333+00 332+00 331+00 330+00 329+00 328+00 327+00 326+00 325+00

S89°23'01"W -913.44'

GLACIER HIGHWAY

PT "G" STA=328+64.47

PC "G" STA=326+35.27

MENDENHALL VALLEY

EGAN DRIVE OUTBOUND

280+00 279+00 278+00 277+00 276+00 275+00 274+00 273+00 272+00

S88°59'03"W -6113.63'

EGAN DRIVE INBOUND

JUNEAU

150.00'

30+00 29+00 28+00 27+00 26+00 25+00 24+00 23+00 22+00

SUNNY POINT DRIVE

S88°59'03"W -1537.16'

"S" STA 23+11.47
52.00 Lt.'

"S" STA 23+11.47
70.00 Lt.'

S0°00'57"E
18.00'

N88°59'03" - 281.16'

EXISTING R/W

N88°59'03"E-3852.60'

HENDRICKSON RD.

LOT 1 | LOT 2 | LOT 3 | LOT 4B | LOT 5B | LOT A

LOT 6

U. S. S. 2434

GRAPHIC SCALE
0' 15' 30' 60' 120'

MATCHLINE SHT. 6

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT
INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y7 OF 269

U.S.S. 2476

LOT 2

LOT 3

E.O.P STA. "G" 334+00

S89°55'28"E-304.13'

N0°02'59"W
16.78'

S89°56'43"E-245.25'

S87°11'32"E
34.94'

S87°42'34"E
59.34'

S88°33'38"E
59.34'

S89°27'41"E
59.34'

N89°36'34"W
7.44"

S87°42'34"E
59.34'

S88°33'38"E
59.34'

EXISTING R/W

342+00 341+00 340+00 339+00 338+00 337+00 336+00 335+00 334+00

GLACIER HIGHWAY

S89°23'01"W -913.44'

PT "G" Sta = 342+13.89

"G" C/L CURVE DATA
DELTA=04°21'35"
R=5729.58'
L=435.98'
T=218.09'

PC Sta = 337+77.91

MATCHLINE SHT. 7

MENDENHALL VALLEY

EGAN DRIVE OUTBOUND

289+00 288+00 287+00 286+00 285+00 284+00 283+00 282+00 281+00

S88°59'03"W -6113.63'

E.O.P. STA. "E" 289+00

EGAN DRIVE INBOUND

JUNEAU

150.00'

EXISTING R/W

35+00 34+00 33+00 32+00 31+00

SUNNY POINT DRIVE

S88°59'03"W -1537.16'

E.O.P. STA. "S" 31+00

N88°59'03"E-3852.60'

EXISTING R/W

LOT 7

LOT 7A

LOT 8A

LOT 9

SUNNY POINT WAY

P/L

GRAPHIC SCALE
0' 15' 30' 60' 120'

DATE	REVISIONS	BY
08/29/06	S. R/W REVISION	MLL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT
INTERSECTION IMPROVEMENTS

DRAWN MAJ/MLL	DATE 08/29/06	SCALE 1"=200'
CHECKED RM/MAJ	DATE AUG., 2006	SHEET Y8 OF 269

SWITZER VILLAGE TRAILER PARK
U.S.S. 2121

B.O.P STA. "G" 304+00

MATCHLINE SHT. 5

SCOTT ST.

GLACIER HIGHWAY

CS Sta=311+67.11
N=500,952.91
E=509,346.63
S78°13'54"E
0.25'

"G" STA 311+67.38
38.00 Rt.'

SC Sta = 310+98.53
N=500,958.04
E=509,415.01

"G" STA 309+48.81
40.00 Rt.'

N8°39'42"W
2.00'

S83°28'49"W
0.35'

N89°07'01"E-144.23'

N85°42'35"E-67.28'

N82°19'40"E-147.45'

EXISTING R/W

N81°20'18"E-149.08'

"G" STA 307+99.73
40.00 Rt.'

S8°39'42"E
4.00'

N81°20'18"E-295.89'

EXISTING R/W

PT "G" Sta = 305+03.84
N=501,045.01
E=510,003.27

N81°52'12"E
0.50'

"G" STA 305+03.84
36.00 Rt.'

R=5765.58'

L=480.77'

"G" STA 310+98.26
38.00 Rt.'

"G" STA 309+48.81
38.00 Rt.'

"G" STA 307+99.73
36.00 Rt.'

"O" STA26+16.60=
"G" STA307+04.99
N=501,014.72
E=509,804.41

S81°20'18"W -444.69'

CROSS WALK
STRIPING

"G" STA 306+63.73
44.00 Lt.'

"G" STA 305+03.84
44.00 Lt.'

312+00

311+00

310+00

309+00

308+00

307+00

306+00

305+00

304+00

CS Sta=311+67.11

SC Sta = 310+98.53

TS Sta = 309+48.53

N89°03'55"E-148.18'

EXISTING R/W

N85°42'35"E
70.86'

N82°20'27"E-151.31'

80.56'

70.75'

N81°20'18"E-149.08'

"G" STA 307+99.73
36.00 Lt.'

"G" STA 307+34.73
64.00 Lt.'

"G" STA 307+34.73
44.00 Lt.'

S8°39'42"E
8.00'

N81°20'18"E-65.00'

S8°39'42"E
20.00'

N8°39'42"W
20.00'

N8°23'19"W
6.7741'

39.41'

7.22'

N81°20'18"E-71.00'

N81°20'18"E-159.89'

120.48'

EXISTING R/W

R=5685.58'

L=400.95'

"G" C/L CURVE DATA
DELTA=02°44'35"
R=1432.39'
L=68.58'
T=134.29'

S86°56'25"W-131.84'

S84°50'40"W-308.24'

S15°53'20"E
47.05'

"G" STA 307+99.73
44.00 Lt.'

S81°10'40"W-402.56'

PT "O" STA 25+39.83
N=500,938.76
E=509,815.61

"G" STA 306+63.73
64.00 Lt.'

R=50.00'
L=50.91'

"O" STA 25+25.69
59.00 Rt.'

PT "G" Sta

S84°09'40"W-401.22'

FORMER
WILLIAMS
EXPRESS

E-1

TS Sta = 309+48.53
N=500,978.04
E=509,563.65

S75°37'07"W-
0.40'

S20°38'47"E-374.50'

293.28'

R/W

59.00'

25+00

24+00

L=211.15'

S30°12'32"E -349.97'

342.75'

R=638.99'

LOT 2A
U.S.S. 2121

LOT 2B
U.S.S. 2121

"O" C/L CURVE DATA
DELTA=39°11'14"
R=599.99'
L=410.36'
T=213.57'

S78°40'49"E
21.00'

LOT 2B

TCE 1

N73°46'25"W-353.90'

N73°46'25"W-333.26'

R/W

MENDENHALL VALLEY

259+00

258+00

257+00

EGAN DRIVE OUTBOUND

EGAN DRIVE INBOUND

PROPOSED
RETAINING WALL

PROPOSED
RETAINING WALL

PROPOSED
RETAINING WALL

R=2749.79'

EXISTING R/W

L=1722.38'

N67°14'07"W-102.21'

N67°14'07"W-111.09'

S20°38'47"E
13.77'

EXISTING R/W

67.45'

PC "O" STA 21+29.47
N=500544.02
E=509737.42

23+00

22+00

80.00'

L=155.63'

R/W

R=679.99'

S55°20'47"W -77.93'

WETLANDS CONSERVATION
BOUNDARY

1

2

GRAPHIC SCALE
0' 15' 30' 60' 120'

		AREA	PARCEL NO.	OWNER	TAKE	REMAIN
E-1	S&S DEVELOPEMENT	5,659 s.f.	1	S&S DEVELOPEMENT	10,787 s.f.	1.65 ac.
TCE 1		4,520 S.F.	2	K-MART CORP (LESSEE)	127,931 s.f.	1.04 a.c.

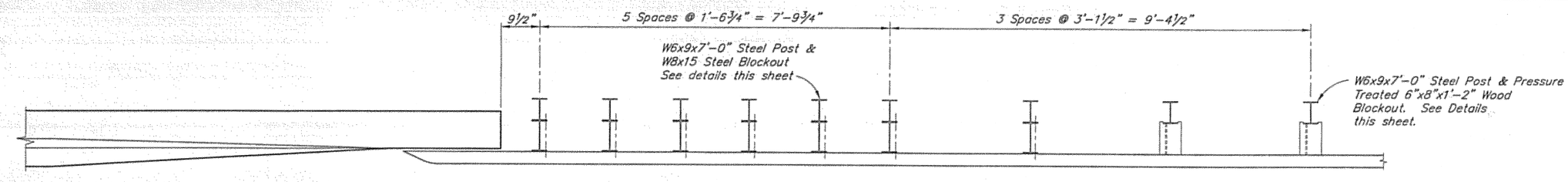
DATE	REVISIONS	BY
07/10/06	ADDED CALLS TO WETLANDS CONSERVATION BOUNDARY	MLL
08/29/06	HATCH TCE1	MLL
08/29/06	DELETED (E-2)	MLL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
RIGHT OF WAY MAP
ALASKA PROJECT NO. 71431
STP-093-2(31)

JUNEAU SUNNY POINT
INTERSECTION IMPROVEMENTS

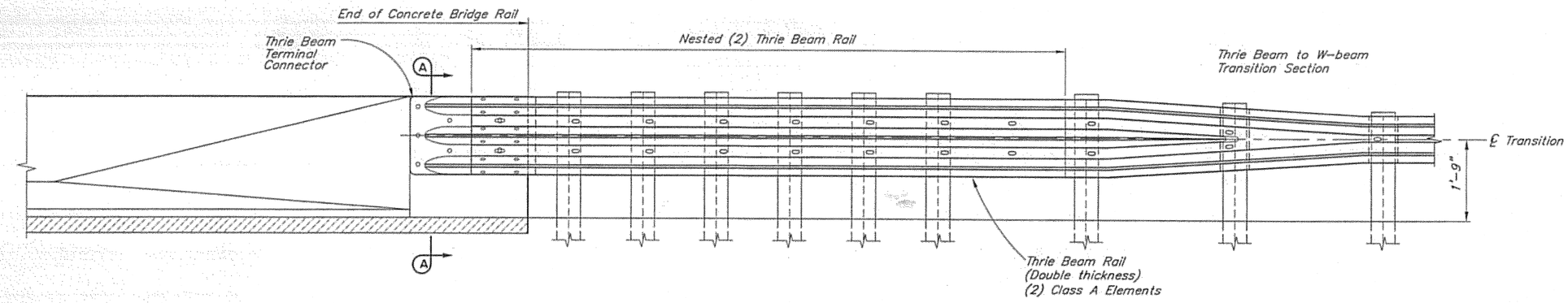
DRAWN MAJ/MLL | DATE 08/29/06 | SCALE 1"=200'
CHECKED RM/MAJ | DATE AUG., 2006 | SHEET Y9 OF 269

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N28	269



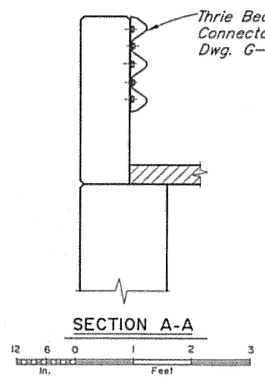
PLAN

12 6 0 1 2 3
In. Feet



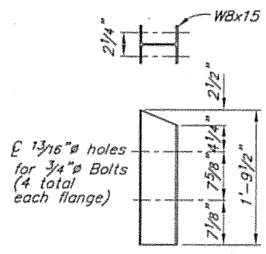
THRIE BEAM TRANSITION - ELEVATION

12 6 0 1 2 3
In. Feet



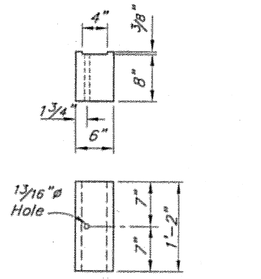
SECTION A-A

12 6 0 1 2 3
In. Feet



THRIE BEAM BLOCKOUT

12 6 0 1 2
In. Feet



WOOD BLOCKOUT

12 6 0 1 2
In. Feet

NOTES:

1. All guardrail and connection hardware to conform to AASHTO M-180.
   All H.S. Bolts conform to ASTM A325.
   All other steel to conform to ASTM A709 Grade 36.
2. Conform to G-00, G-04S, G-09S for all guardrail details not shown.
3. Lap approach guardrail to prevent snags from oncoming traffic.
4. Provide 2" horizontal slot in approach guardrail. Adjust guardrail bolts for sliding fit.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

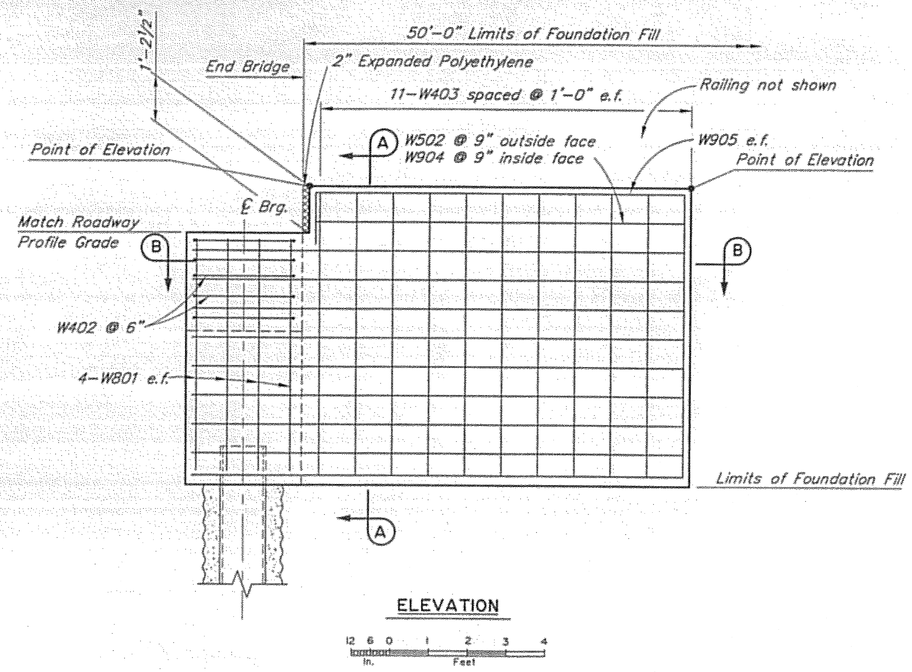
EGAN DRIVE

THRIE BEAM TRANSITION

BRIDGE NO. 2192
DWG. NO. 9

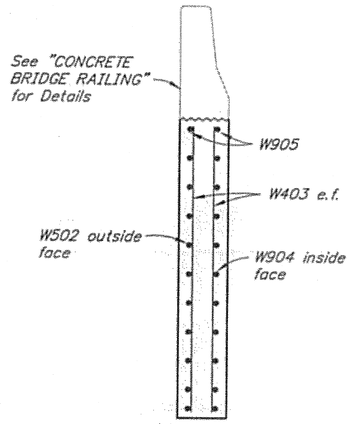
I:\Projects\2006\06271\Dgn\06271N28.dgn 6/21/2006 11:07:11 AM

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N34	269



ELEVATION

12 6 0 1 2 3 4
In. Feet



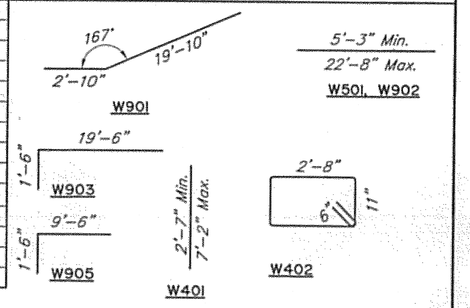
SECTION A-A

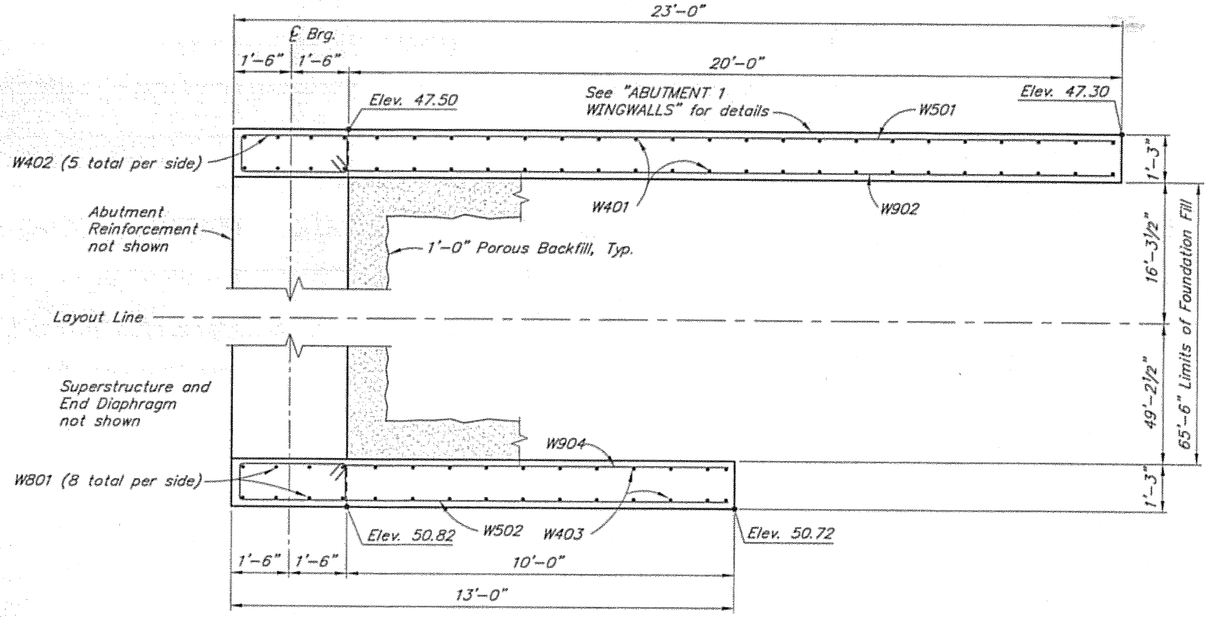
12 6 0 1 2 3 4
In. Feet

REINFORCING STEEL - ONE ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE
W401	4	42	Varies	——
W402	4	10	8'-2"	Bent
W403	4	22	7'-3"	——
W501	5	9	Varies	——
W502	5	10	12'-8"	——
W801	8	16	6'-0"	——
W901	9	2	22'-8"	Bent
W902	9	9	Varies	——
W903	9	2	21'-0"	Bent
W904	9	10	12'-8"	——
W905	9	2	11'-0"	Bent

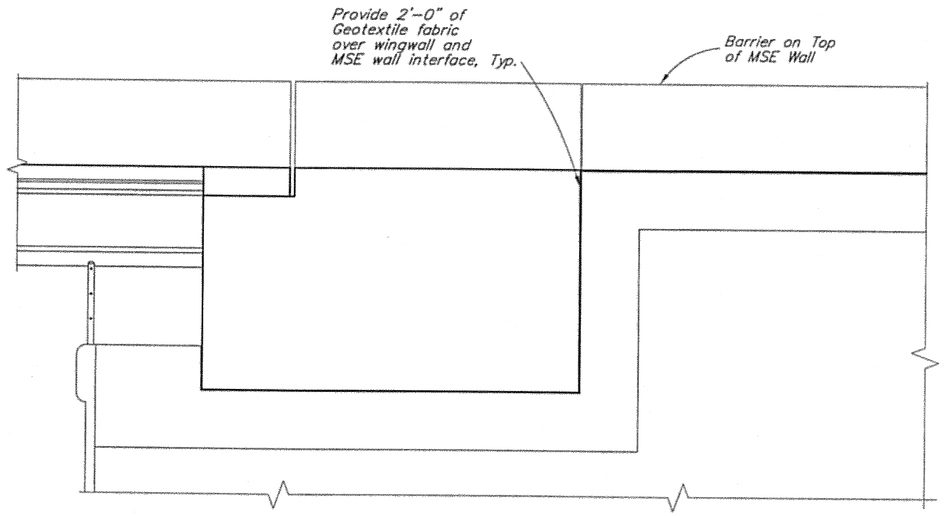
BENDING DIAGRAM





SECTION B-B

12 6 0 1 2 3 4
In. Feet



FINISHED ELEVATION

12 0 1 2 3 4
In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
9/13/06

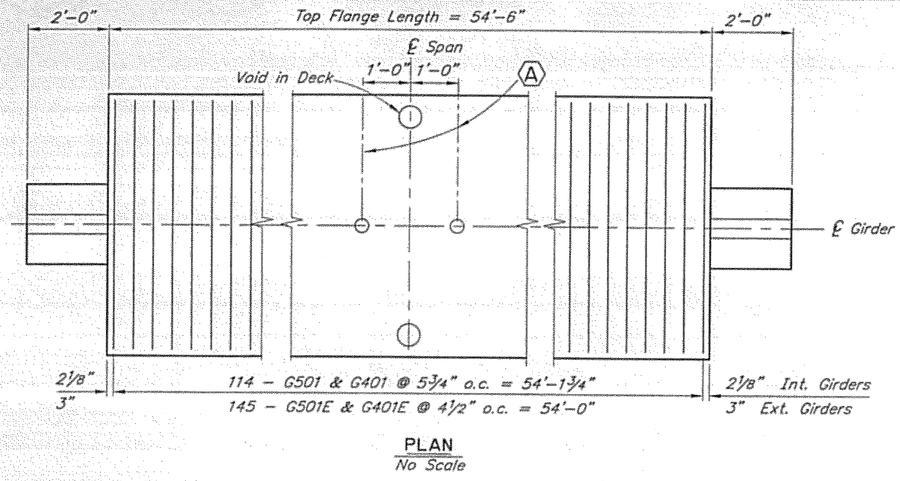
SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

EGAN DRIVE

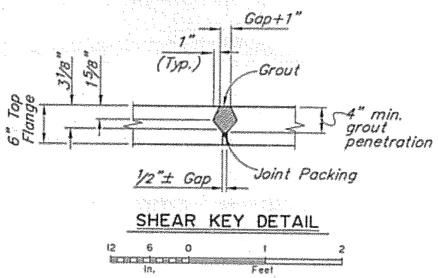
ABUTMENT 2 WINGWALLS

BRIDGE NO. 2127
DWG NO. 6

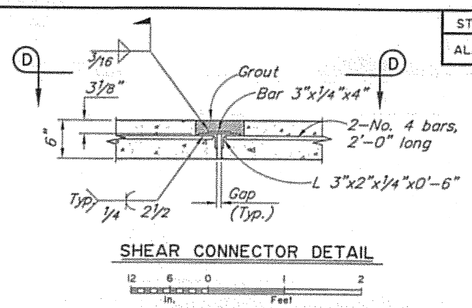
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	N36		269



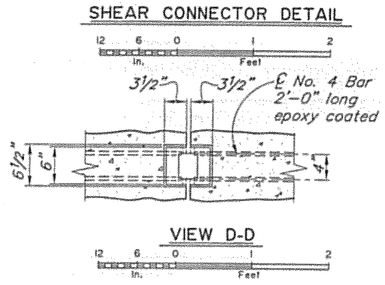
PLAN
No Scale



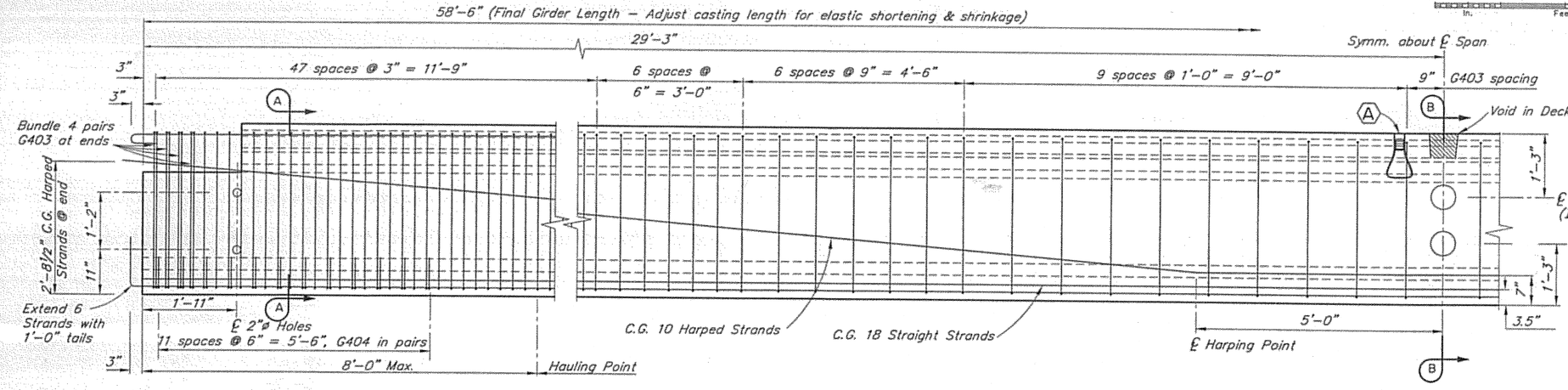
SHEAR KEY DETAIL



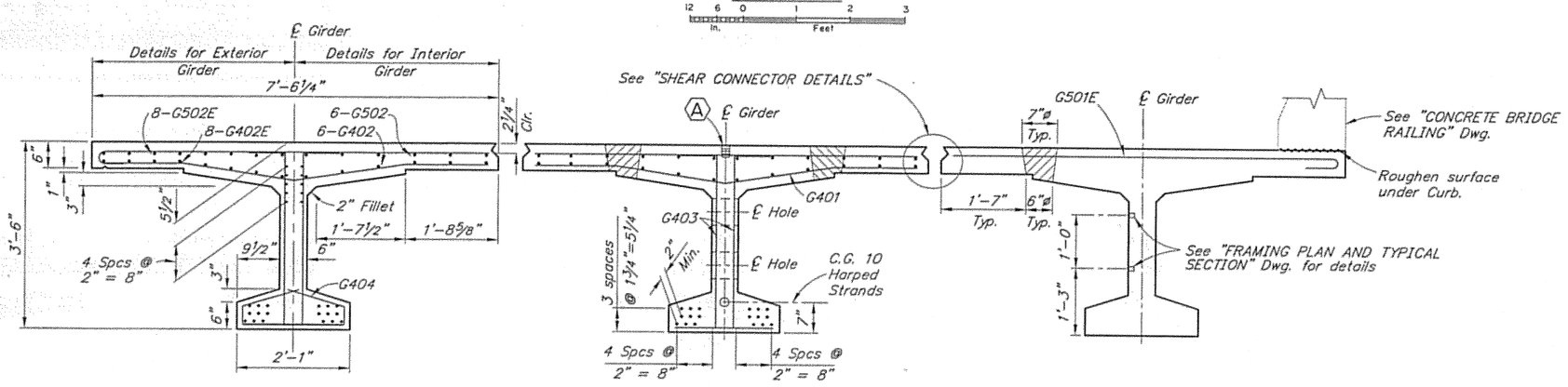
SHEAR CONNECTOR DETAIL



VIEW D-D



ELEVATION



SECTION A-A

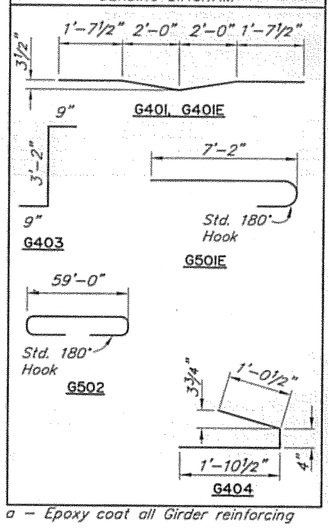
SECTION B-B

EXTERIOR GIRDER NEAR MID SPAN
(Unrelated Reinforcement not shown)

a REINFORCING STEEL SCHEDULE-ONE GIRDER

	MARK	SIZE	NO.	LENGTH	TYPE
e	G401E	4	145	7'-3"	Bent
b	G402	4	12	54'-4"	–
b,e	G402E	4	16	54'-4"	–
	G403	4	292	4'-8"	Bent
	G404	4	48	3'-3"	Bent
	G501	5	114	7'-3"	–
e	G501E	5	145	7'-9"	Bent
b	G502	5	12	60'-2"	Bent
b,e	G502E	5	16	60'-2"	Bent

BENDING DIAGRAM



a – Epoxy coat all Girder reinforcing
b – Length does not include splices. Minimum lap splice length for splices shall be: 2'-0" for #4 bars, 2'-6" for #5 bars.
e – Exterior Girder only.

GIRDER NOTES

Use normal weight concrete having the following strengths:
At Stress Transfer f'ci = 5000 psi
At 28 days f'c = 5500 psi

Use ½" round low relaxation strands having an ultimate strength of 270 ksi and a cross section area of 0.153 in.²

Design is based on the following steel stresses:
Pretensioning – Jacking Stress 189 ksi
After initial losses – 175 ksi
After all losses – 143 ksi

1" clear on all reinforcing except as noted.

Deflect forms to compensate for camber and roadway grade.

Provide a magnesium float finish on the roadway surface of the precast member. Roughen the surface under the railing.

Omit Shear Key and Shear Connector on outside of exterior girders.

Cast Girder ends plumb with respect to roadway grade.

(A) 1"x1'-0" Coil Anchor Insert for vertical adjustment of girders. Recess 2". Prevent concrete from filling hole.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

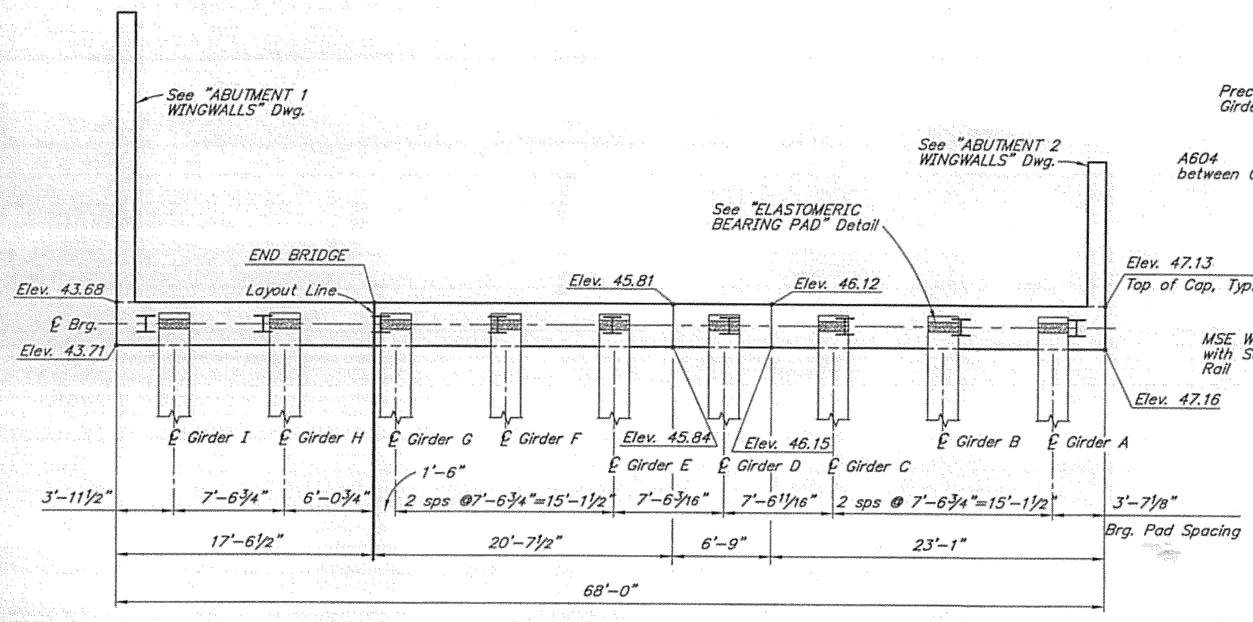
SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

EGAN DRIVE

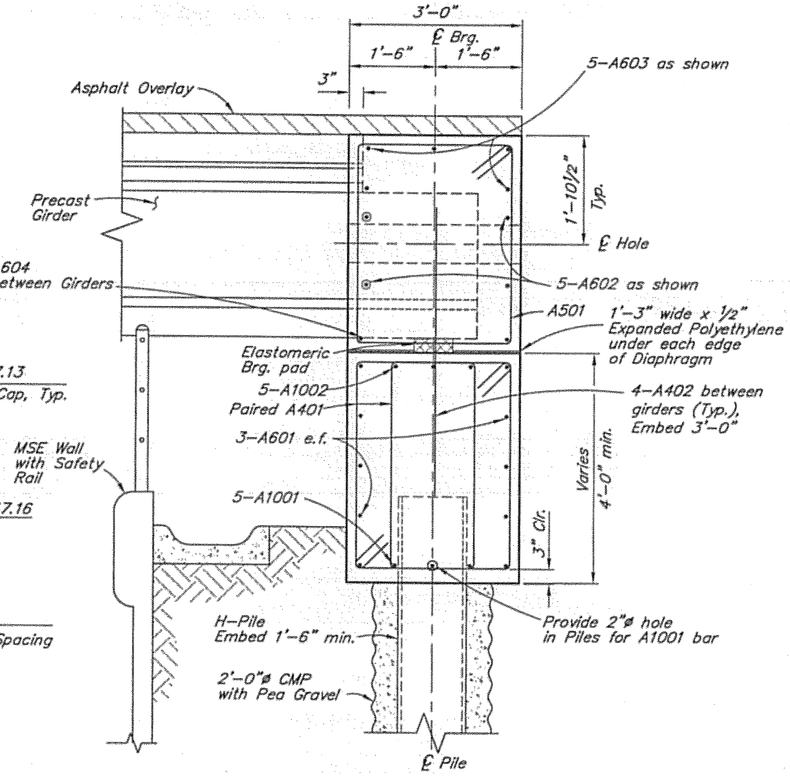
GIRDERS

BRIDGE NO. 2127
DWG NO. 8

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N32	269



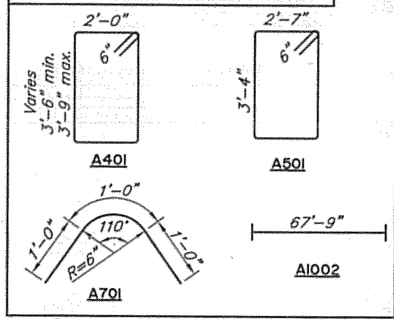
PLAN



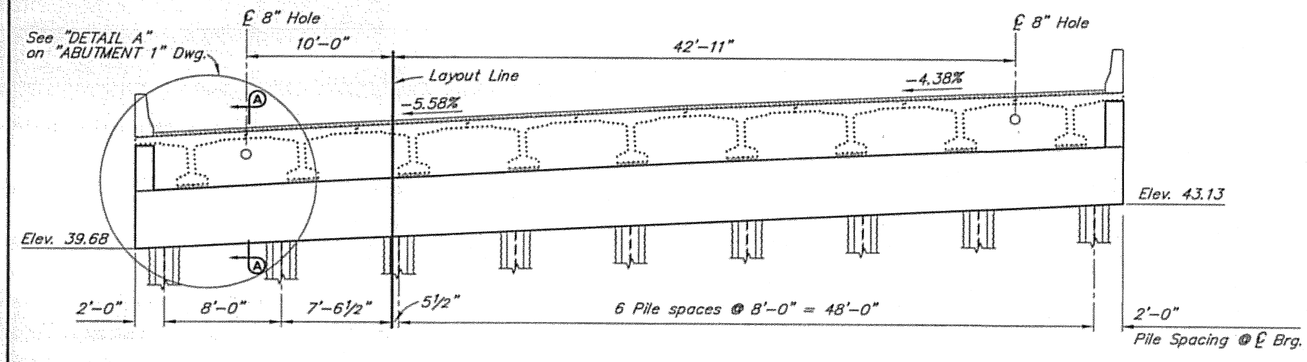
SECTION A-A

	MARK	SIZE	NO.	LENGTH	TYPE
	A401	4	172	Varies	BENT
	A402	4	32	6'-0"	——
a	A501	5	70	12'-10"	BENT
d	A601	6	6	67'-8"	——
a,b,d	A602	6	5	65'-0"	——
a,b,d	A603	6	5	67'-8"	——
a	A604	6	8	5'-1"	——
a	A701	7	8	3'-0"	BENT
d	A1001	10	5	67'-8"	——
b,c,d	A1002	10	5	67'-8"	HEADED

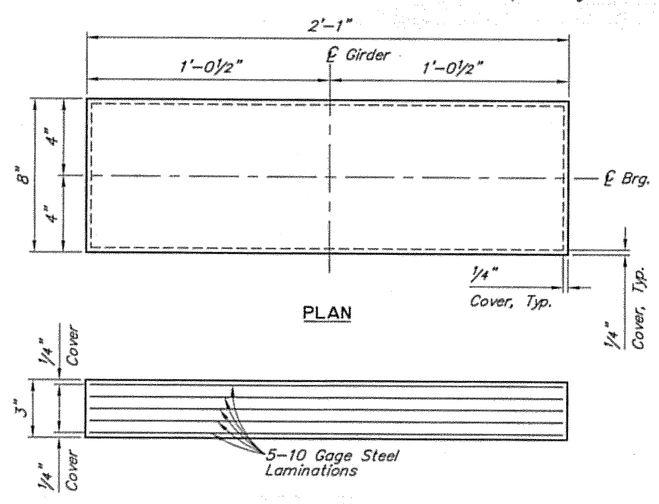
BENDING DIAGRAM



a – Epoxy coated
b – Field adjust and match cross slope.
c – Headed bar to conform to ASTM A970.
d – does not include splice length.



ELEVATION
(Looking ahead on station)



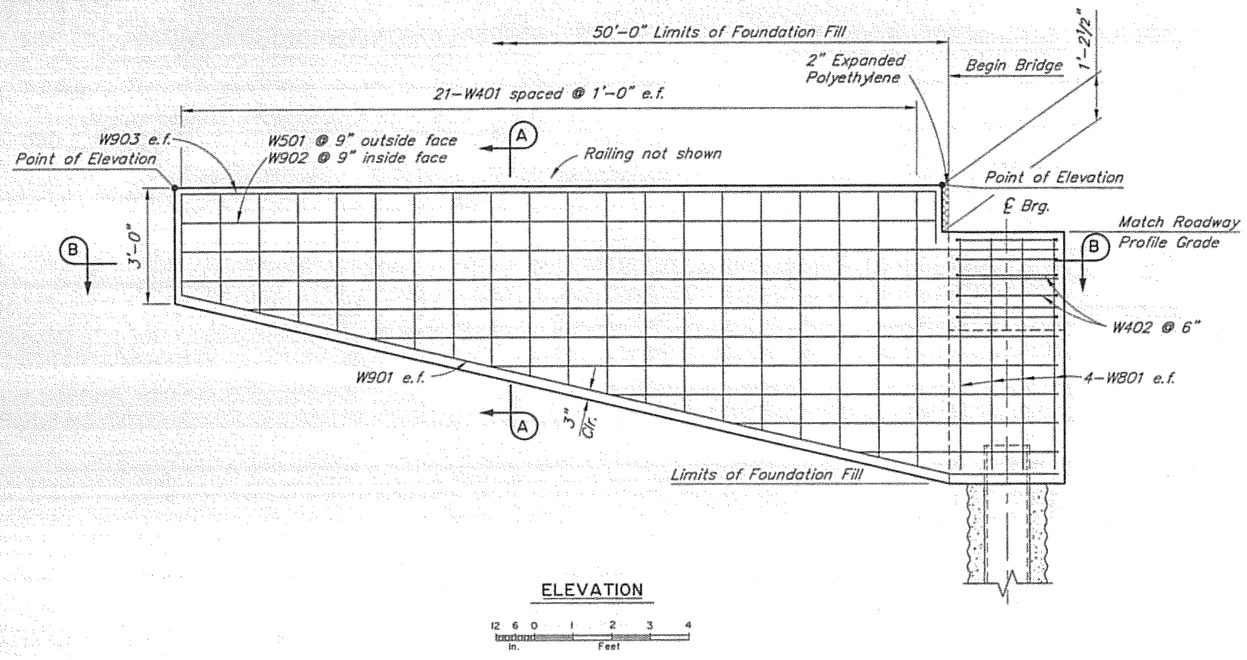
ELEVATION
ELASTOMERIC BEARING PAD

(50 Durometer, Grade 5)
Dead Load = 73 k
Live Load = 72 k

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION	SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND EGAN DRIVE ABUTMENT 2
DRAWN BY: Sam Sollie Jr.	CHECKED: Elmer Marx		BRIDGE NO. 2127 DWG. NO. 4
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson		

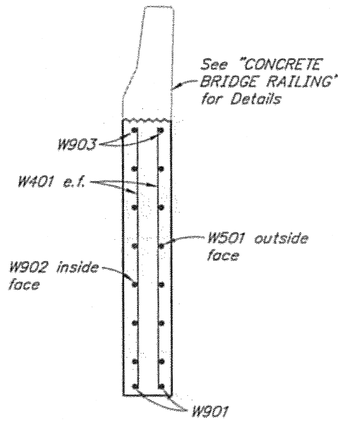
STATE OF ALASKA 49 TH — Elmer E. Marx III — No. CE 9490 — REGISTERED PROFESSIONAL ENGINEER

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N33	269



ELEVATION

12 6 0 1 2 3 4 In. Feet



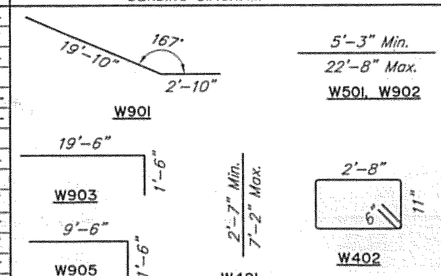
SECTION A-A

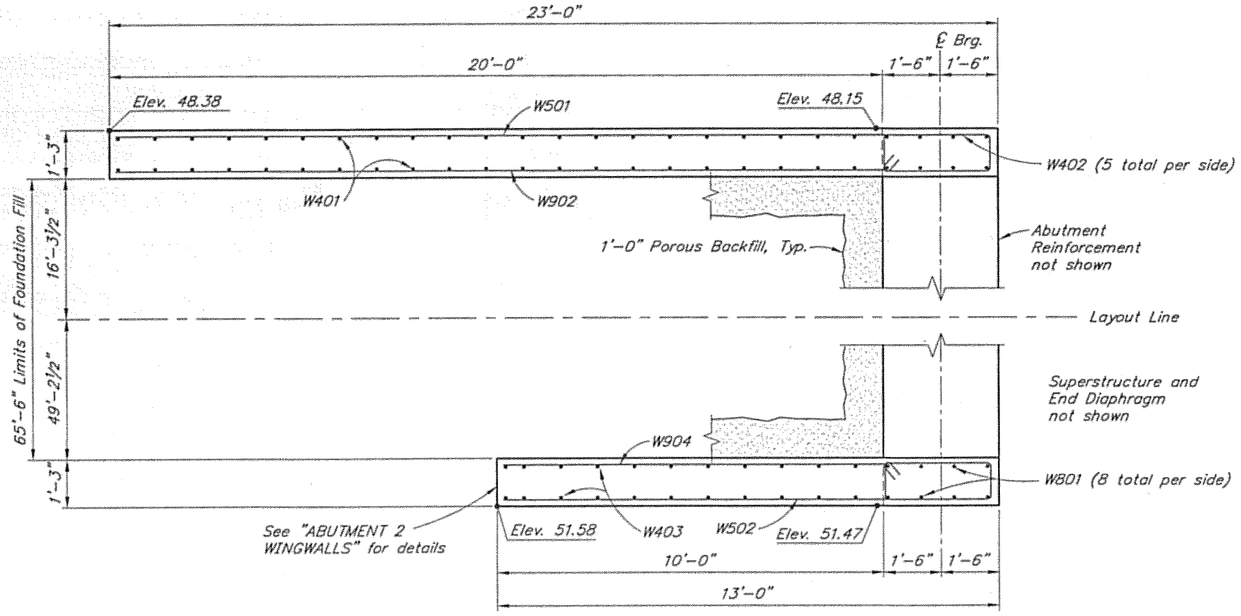
12 6 0 1 2 3 4 In. Feet

REINFORCING STEEL - ONE ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE
W401	4	42	Varies	——
W402	4	10	8'-2"	Bent
W403	4	22	7'-3"	——
W501	5	9	Varies	——
W502	5	10	12'-8"	——
W801	8	16	6'-0"	——
W901	9	2	22'-8"	Bent
W902	9	9	Varies	——
W903	9	2	21'-0"	Bent
W904	9	10	12'-8"	——
W905	9	2	11'-0"	Bent

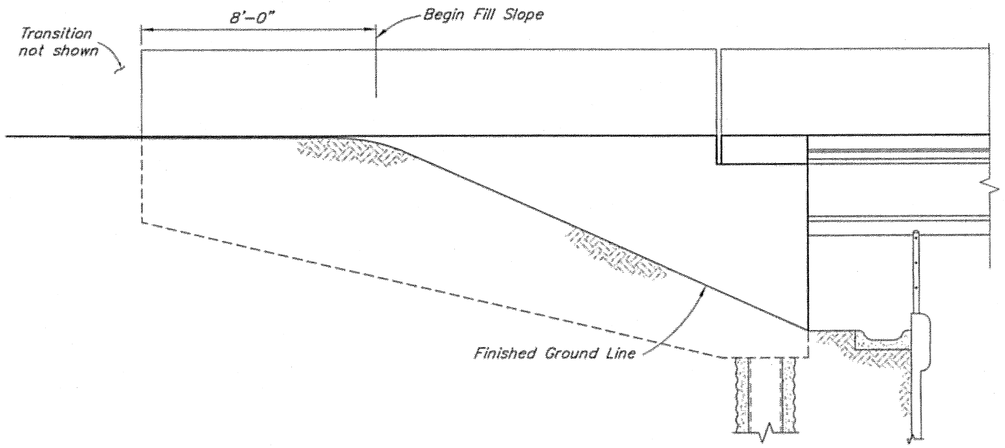
BENDING DIAGRAM





SECTION B-B

12 6 0 1 2 3 4 In. Feet



FINISHED ELEVATION

12 0 1 2 3 4 In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH — Elmer E. Marx III No. CE 9490 — REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

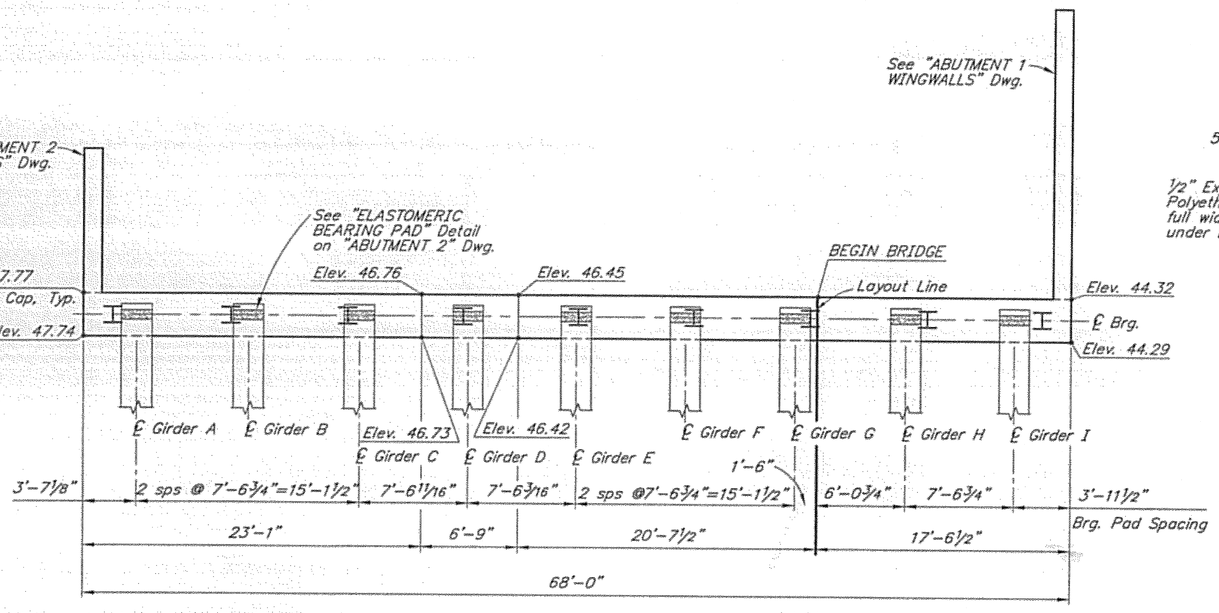
EGAN DRIVE

ABUTMENT 1 WINGWALLS

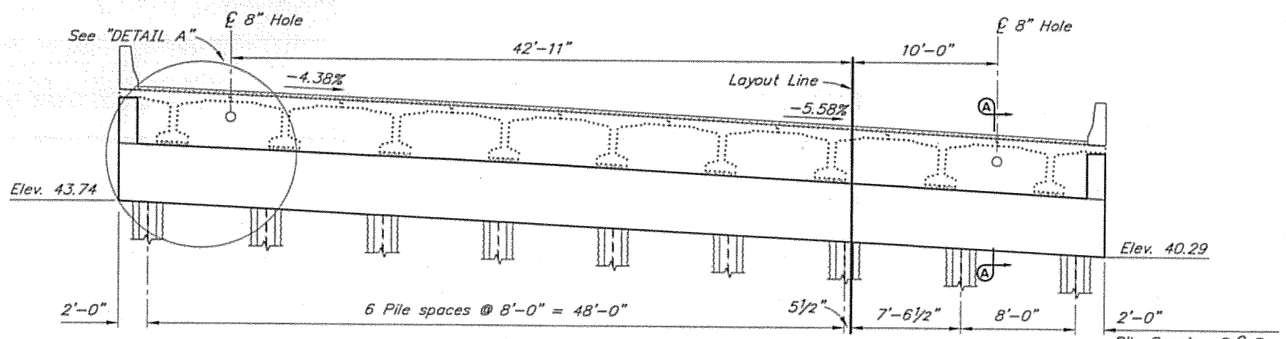
BRIDGE NO. 2127

DWG NO. 5

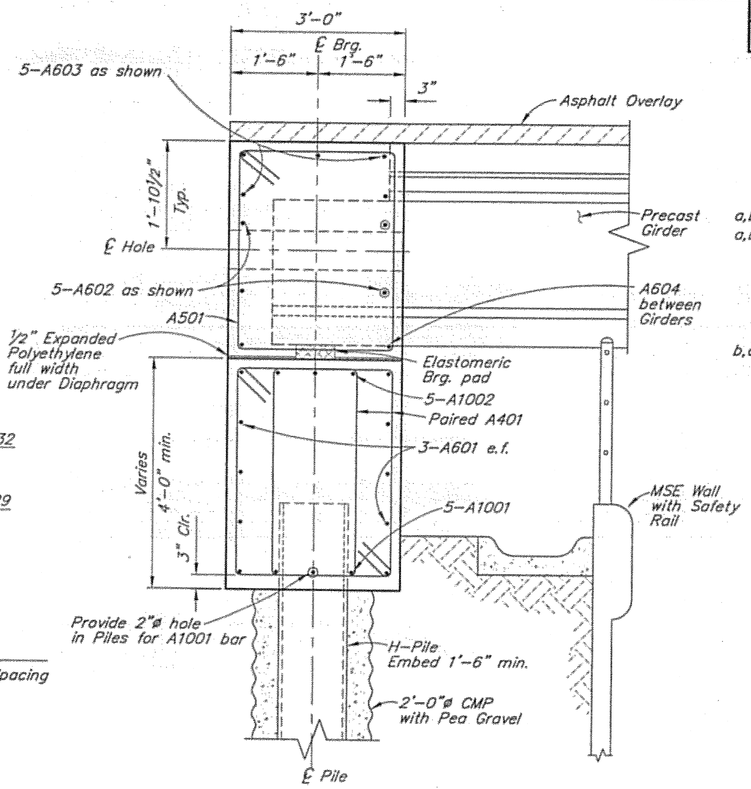
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N31	269



PLAN



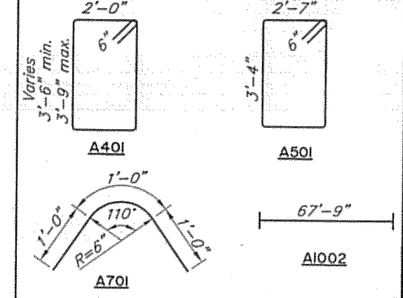
ELEVATION
(Looking back on station)



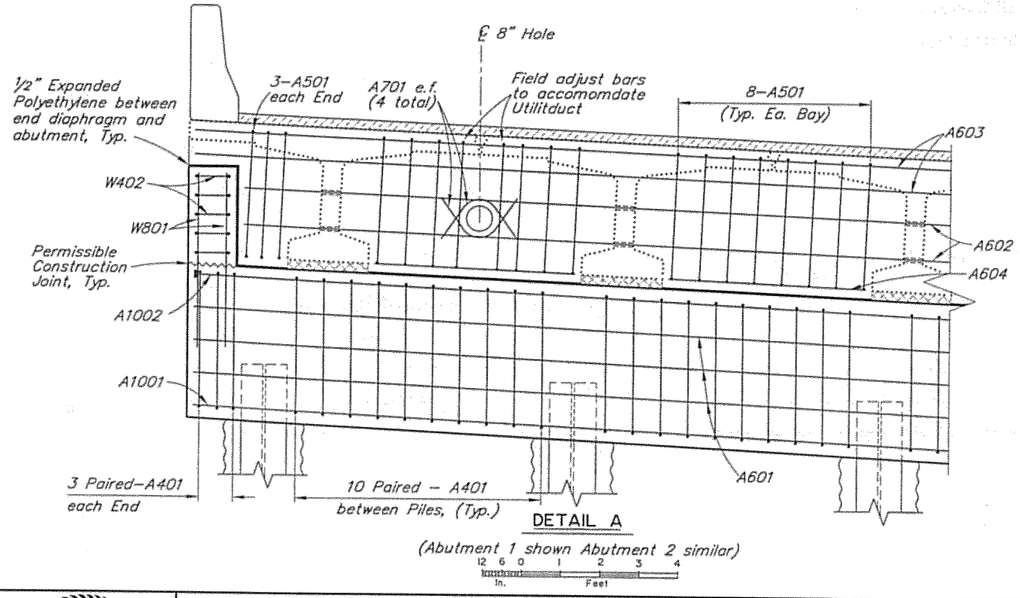
SECTION A-A

	MARK	SIZE	NO.	LENGTH	TYPE
	A401	4	172	Varies	BENT
a	A501	5	70	12'-10"	BENT
d	A601	6	6	67'-8"	——
a,b,d	A602	6	5	65'-0"	——
a,b,d	A603	6	5	67'-8"	——
a	A604	6	8	5'-1"	——
a	A701	7	8	3'-0"	BENT
d	A1001	10	5	67'-8"	——
b,c,d	A1002	10	5	67'-8"	HEADED

BENDING DIAGRAM



a – Epoxy coated
b – Field adjust and match cross slope.
c – Headed bar to conform to ASTM A970.
d – Does not include splice length.



DETAIL A
(Abutment 1 shown Abutment 2 similar)

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

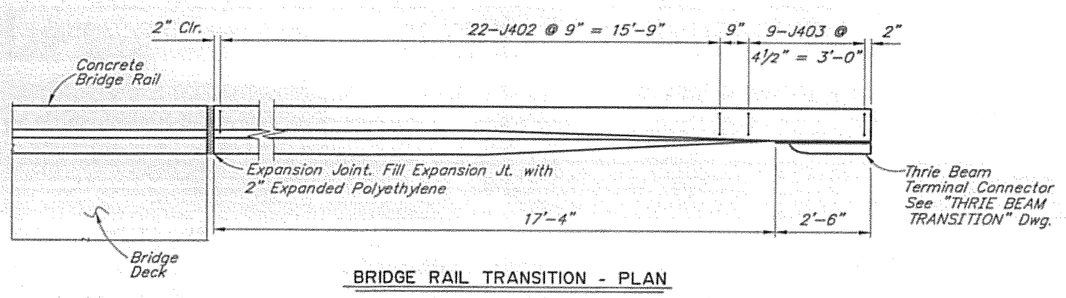
SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

EGAN DRIVE

ABUTMENT 1

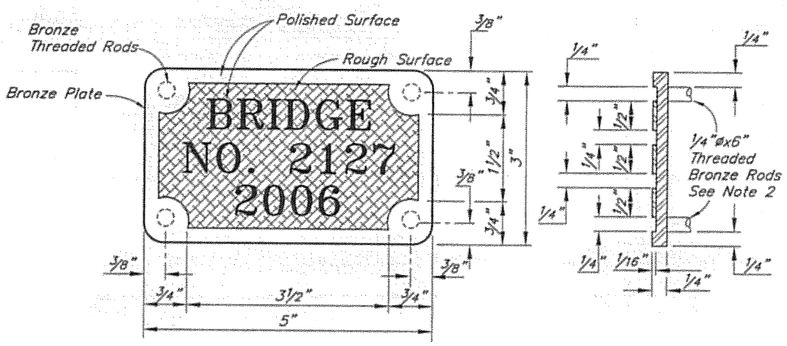
BRIDGE NO. 2127
DWG NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N37	269



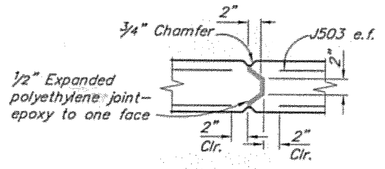
BRIDGE RAIL TRANSITION - PLAN

12 6 0 1 2 3 4 Inches Feet



BRONZE BRIDGE NO. PLATE

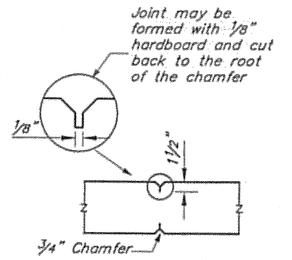
No Scale



MIDSPAN EXPANSION JOINT

Locate at Midspan

No Scale



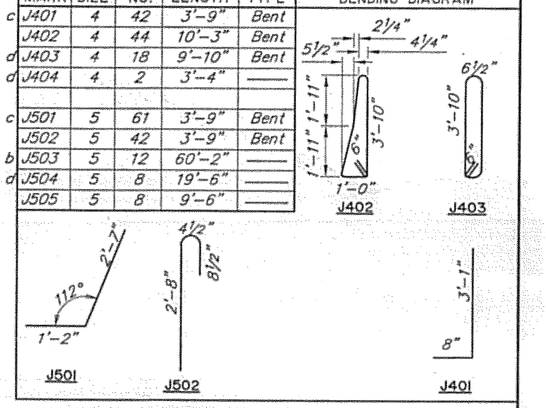
WEAKENED PLANE JOINT

Locate at ¼ Span

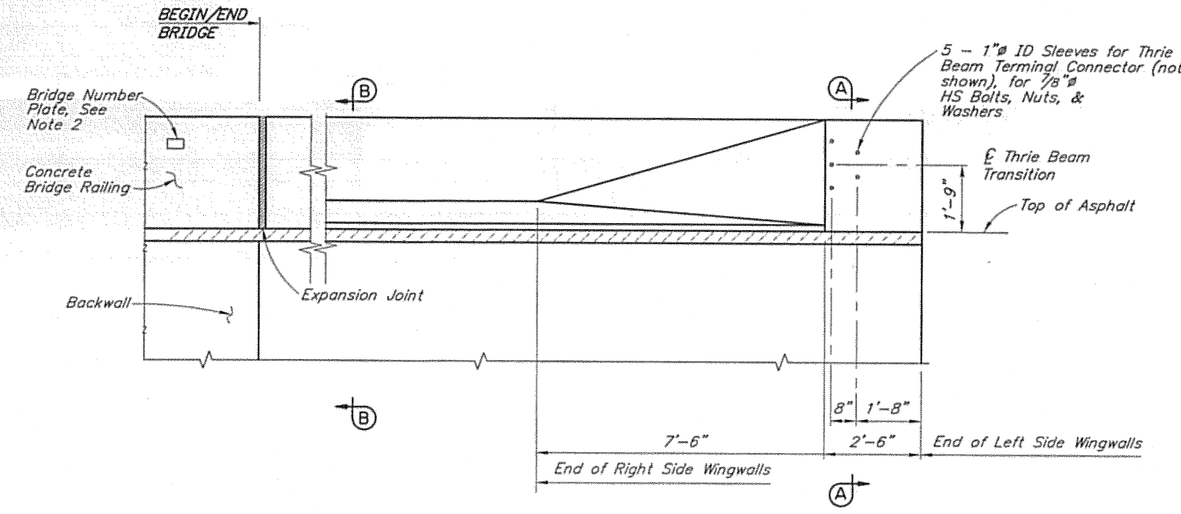
No Scale

a- REINFORCING STEEL-ONE RAIL

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
c	J401	4	42	3'-9"	Bent	
	J402	4	44	10'-3"	Bent	
d	J403	4	18	9'-10"	Bent	
d	J404	4	2	3'-4"	——	
c	J501	5	61	3'-9"	Bent	
	J502	5	42	3'-9"	Bent	
b	J503	5	12	60'-2"	——	
d	J504	5	8	19'-6"	——	
	J505	5	8	9'-6"	——	

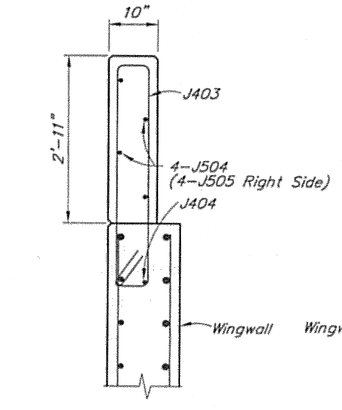


a – Epoxy coat all reinforcing steel.
b – Length does not include Lap Splices. Minimum Lap Splice length for No. 5 Bar = 3'-0".
c – Ship 6 loose.
d – Used on left side railing only.



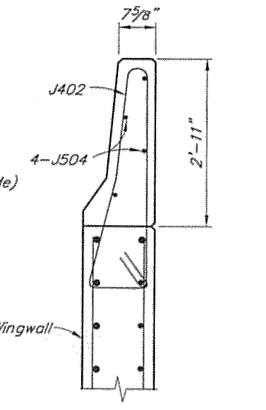
BRIDGE RAIL TRANSITION - ELEVATION

12 6 0 1 2 3 4 Inches Feet



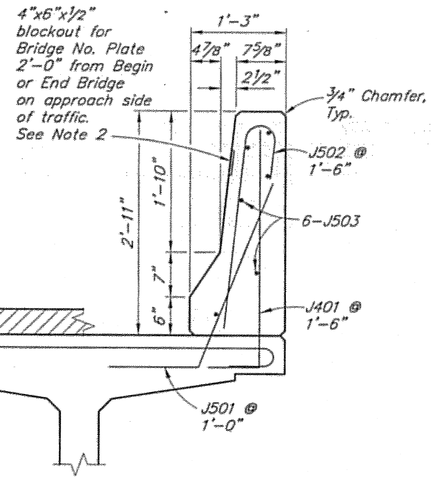
SECTION A-A

12 6 0 1 2 3 Inches Feet



SECTION B-B

12 6 0 1 2 3 Inches Feet



BRIDGE RAIL

12 6 0 1 2 Inches Feet

NOTES

1. Construct bridge rail plumb.
2. Furnish and install two bronze bridge number plates conforming to A.S.T.M. B98–90 Alloy "A" or "B". Use "CENTURY" type style. Studs to be ¼"ø bronze threaded rods brazed to back of plate. Epoxy bond rods into ⅞"ø holes in concrete bridge rail blockout Use epoxy suitable for exterior application and compatible with materials to be bonded. Follow epoxy manufacturer's instructions.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

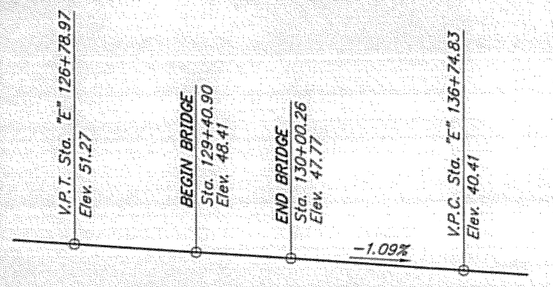
EGAN DRIVE

CONCRETE BRIDGE RAILING

BRIDGE NO. 2127

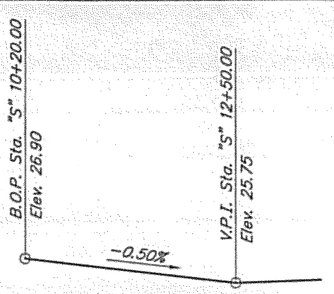
DWG NO. 9

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N29	269



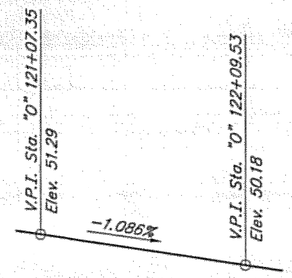
PROFILE GRADE "E" LINE

No Scale



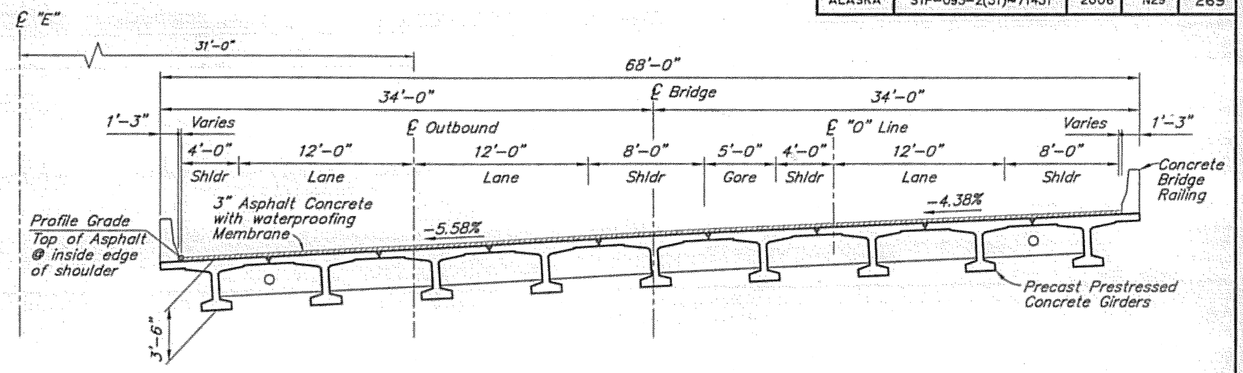
PROFILE GRADE "S" LINE

No Scale



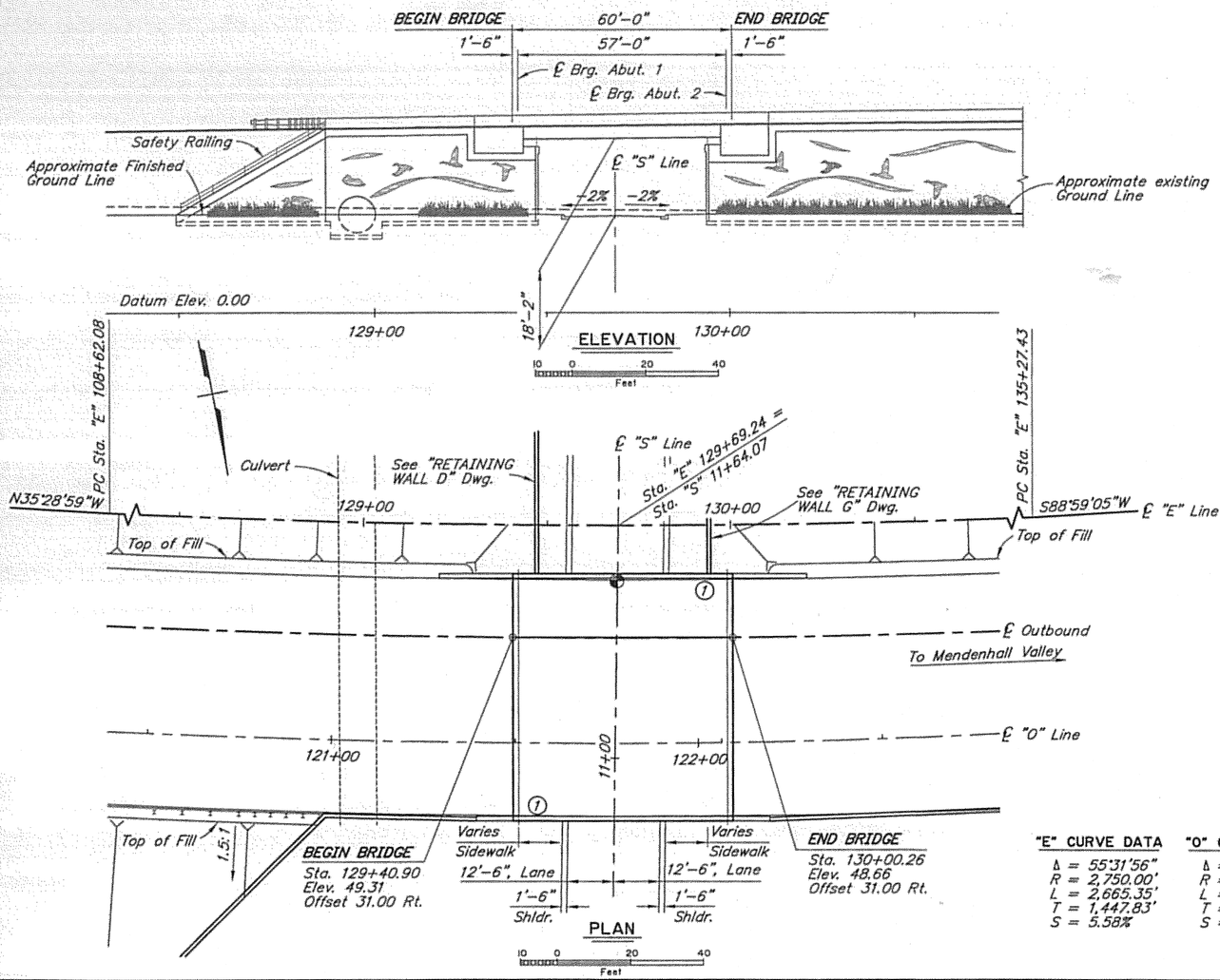
PROFILE GRADE "O" LINE

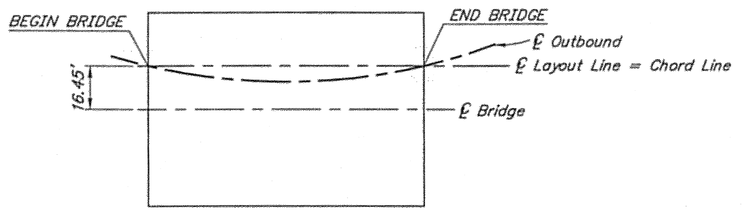
No Scale



TYPICAL SECTION

12 0 5 10
Inch In. Feet





LAYOUT LINE

No Scale

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
SITE PLAN	2
ABUTMENT 1	3
ABUTMENT 2	4
ABUTMENT 1 WINGWALLS	5
ABUTMENT 2 WINGWALLS	6
FRAMING PLAN AND TYPICAL SECTION	7
GIRDERS	8
CONCRETE BRIDGE RAILING	9
THRIE BEAM TRANSITION	10

"E" CURVE DATA

Δ = 55°31'56"
R = 2,750.00'
L = 2,665.35'
T = 1,447.83'
S = 5.58%

"O" CURVE 1 DATA

Δ = 05°12'16"
R = 2,810.00'
L = 255.24'
T = 127.70'
S = 4.38%

"O" CURVE 2 DATA

Δ = 11°45'34"
R = 2,000.00'
L = 410.47'
T = 205.94'
S = 4.38%

① Approximate location of Bridge Number Plate.

⊕ Point of minimum vertical clearance.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	LAYOUT BY: Elmer Marx	CHECKED BY: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	SPECIFICATIONS BY: Elmer Marx	P S & E COMPARED: Keith Carlson
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson	APPROVAL RECOMMENDED BY: Rich Pratt	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
31-01-06

SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

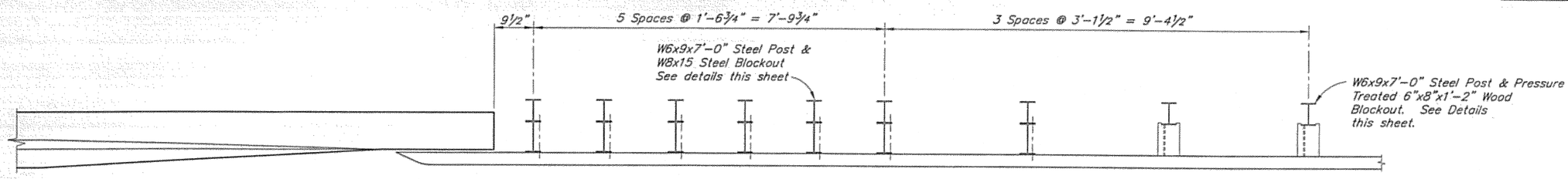
EGAN DRIVE

GENERAL LAYOUT

BRIDGE NO. 2127

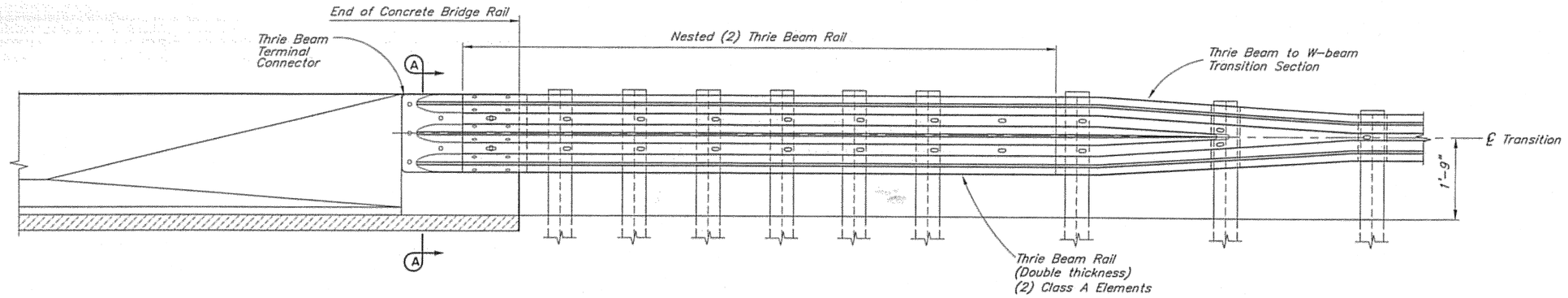
DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N38	269



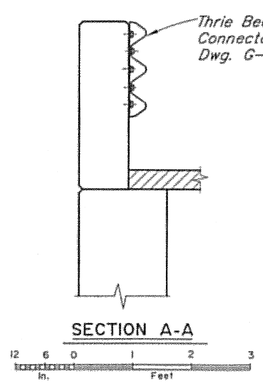
PLAN

12 6 0 1 2 3
In. Feet



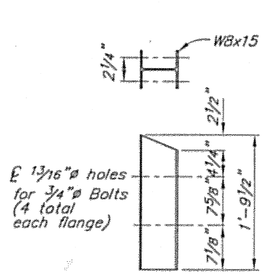
THRIE BEAM TRANSITION - ELEVATION

12 6 0 1 2 3
In. Feet



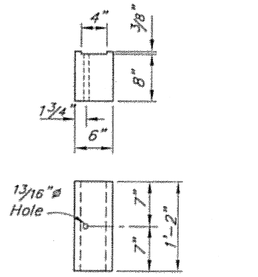
SECTION A-A

12 6 0 1 2 3
In. Feet



THRIE BEAM BLOCKOUT

12 6 0 1 2
In. Feet



WOOD BLOCKOUT

12 6 0 1 2
In. Feet

NOTES:

1. All guardrail and connection hardware to conform to AASHTO M-180.
   All H.S. Bolts conform to ASTM A325.
   All other steel to conform to ASTM A709 Grade 36.
2. Conform to G-00, G-04S, G-09S for all guardrail details not shown.
3. Lap approach guardrail to prevent snags from oncoming traffic.
4. Provide 2" horizontal slot in approach guardrail. Adjust guardrail bolts for sliding fit.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
6/13/06
REGISTERED PROFESSIONAL ENGINEER

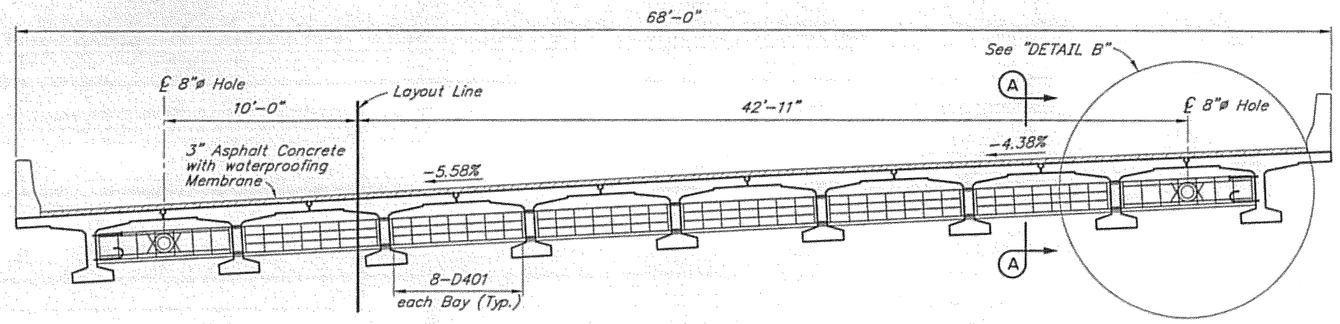
SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

EGAN DRIVE

THRIE BEAM TRANSITION

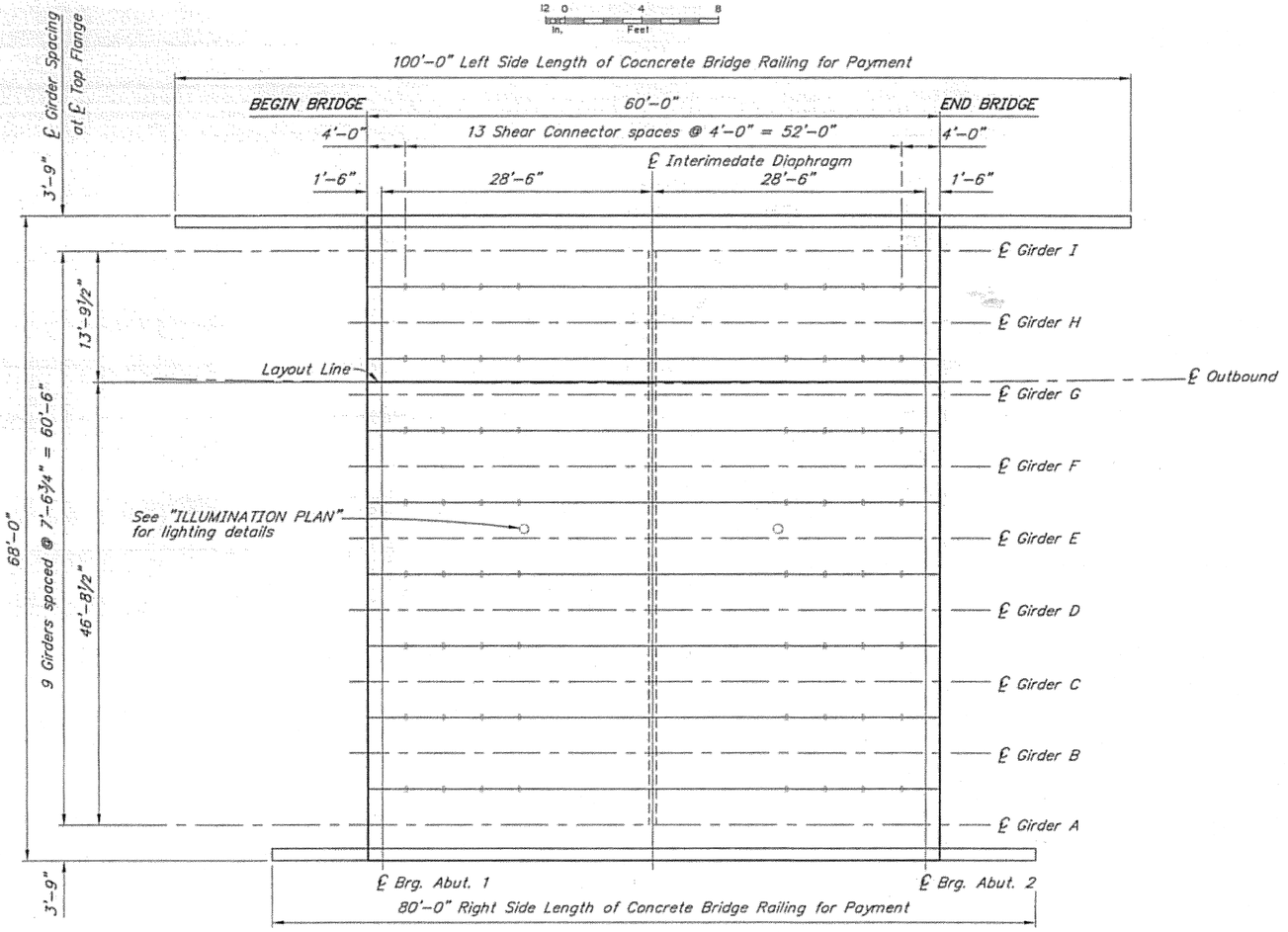
BRIDGE NO. 2127
DWG NO. 10

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N35	269



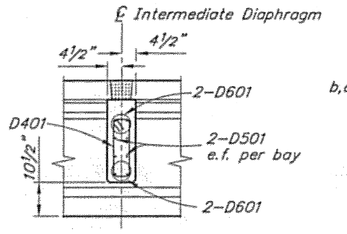
TYPICAL SECTION

12 0 4 8 Inches Feet



FRAMING PLAN

12 0 4 8 12 Inches Feet

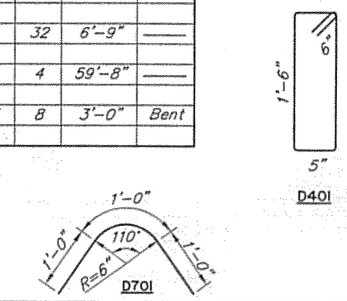


SECTION A-A

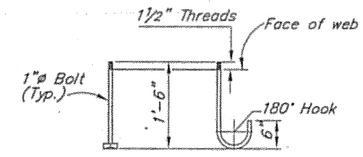
12 6 0 1 2 3 4 Inches Feet

REINFORCING STEEL-INTER. DIAPHRAGM

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
	D401	4	64	4'-10"	Bent	
	D501	5	32	6'-9"	—	
b,c	D601	6	4	59'-8"	—	
	D701	7	8	3'-0"	Bent	



a – Epoxy coated.
b – Minimum lap splice length 3'-3".
c – Field bend bars to match cross slope.

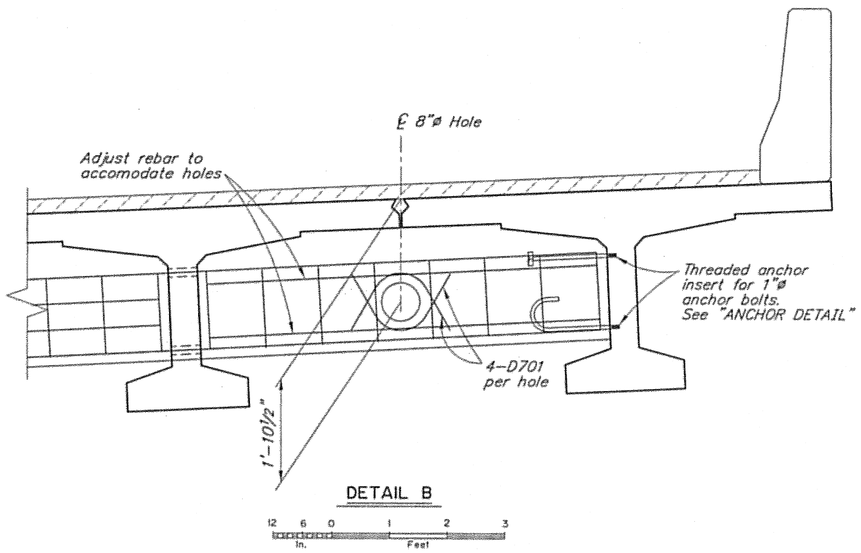


TOP ANCHOR BOTTOM ANCHOR

ASTM A307 GALVANIZED

ANCHOR DETAIL

12 6 0 1 2 3 In. Feet



DETAIL B

12 6 0 1 2 3 In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
5/31/06
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

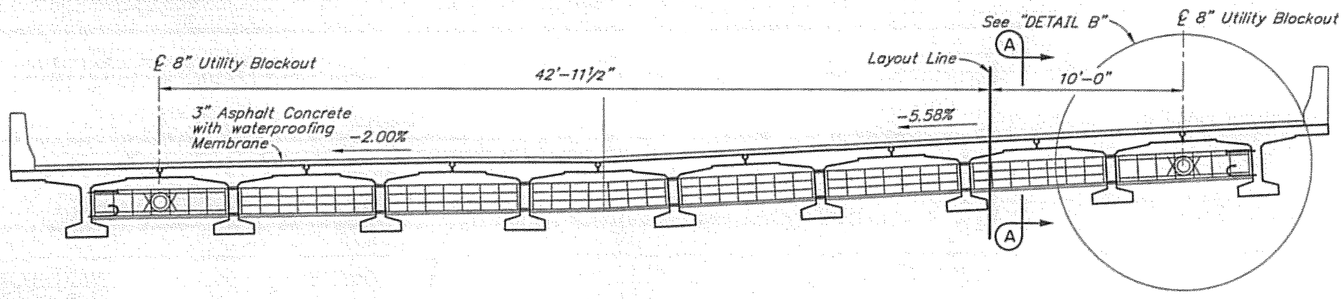
EGAN DRIVE

FRAMING PLAN AND TYPICAL SECTION

BRIDGE NO. 2127

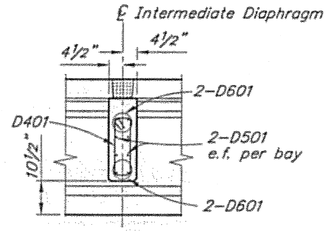
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N25	269



TYPICAL SECTION

12 0 4 8 In. Feet

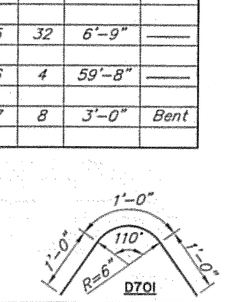


SECTION A-A

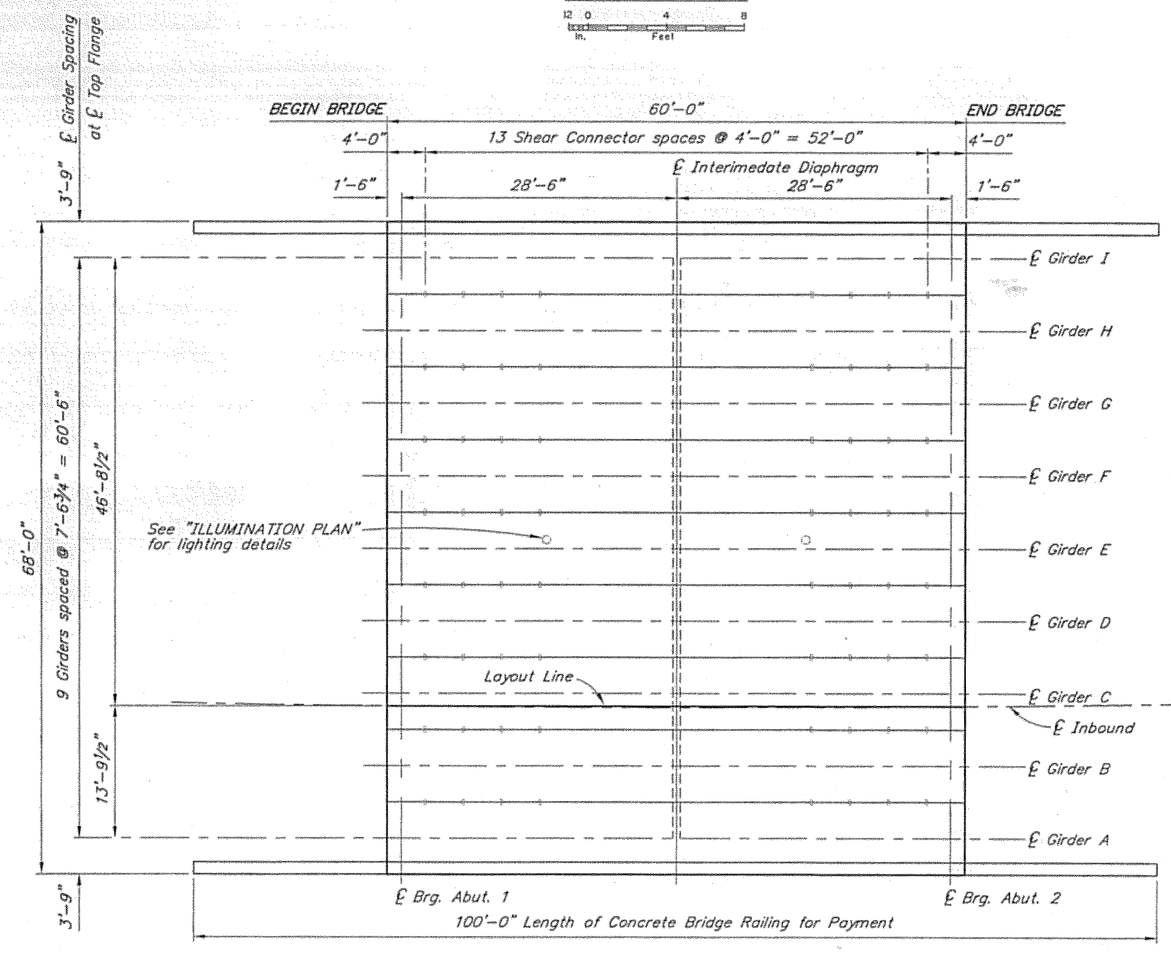
12 6 0 1 2 3 4 In. Feet

REINFORCING STEEL-INTER. DIAPHRAGM

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
	D401	4	64	4'-10"	Bent	
	D501	5	32	6'-9"	——	
b,c	D601	6	4	59'-8"	——	
	D701	7	8	3'-0"	Bent	

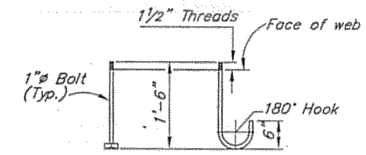


a – Epoxy coated.
b – Minimum lap splice length 3'-3".
c – Field bend bars to match cross slope.



FRAMING PLAN

12 0 4 8 12 In. Feet

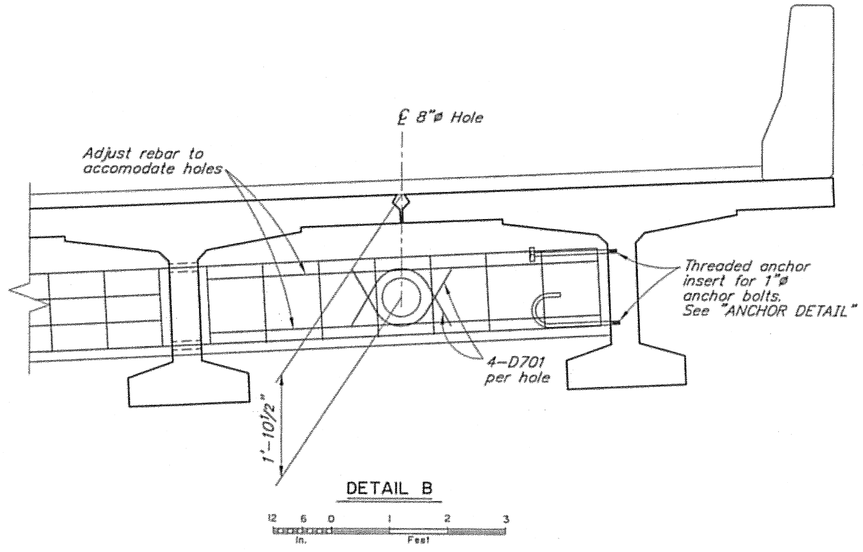


TOP ANCHOR BOTTOM ANCHOR

ASTM A307 GALVANIZED

ANCHOR DETAIL

12 6 0 1 2 3 In. Feet



DETAIL B

12 6 0 1 2 3 In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
6/13/06

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

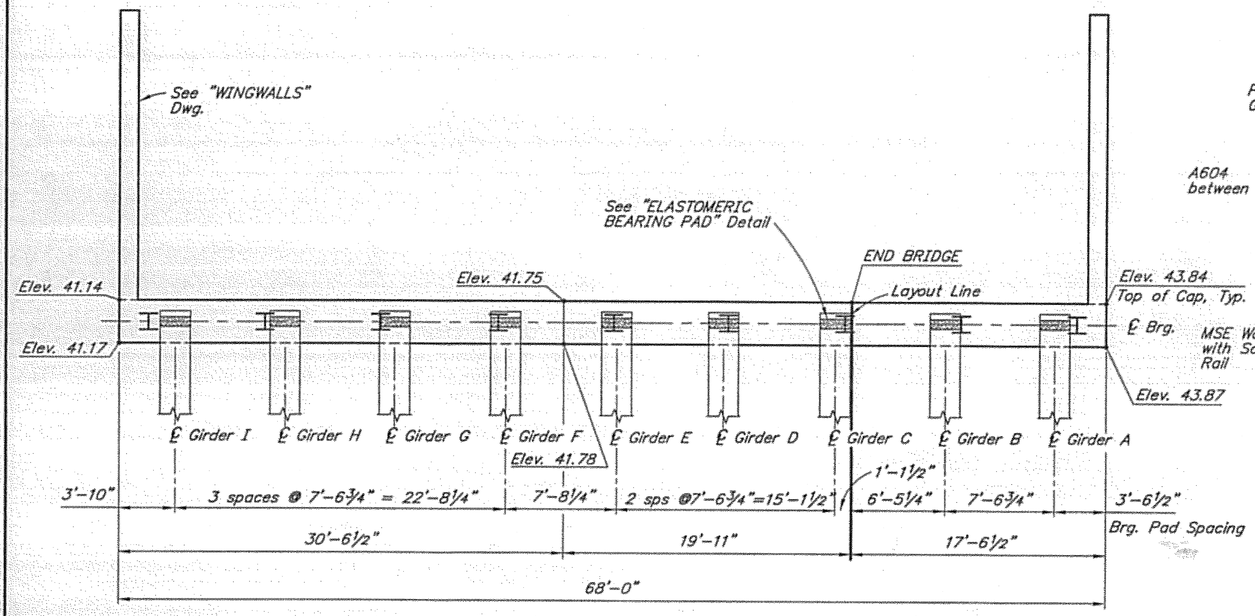
EGAN DRIVE

FRAMING PLAN AND TYPICAL SECTION

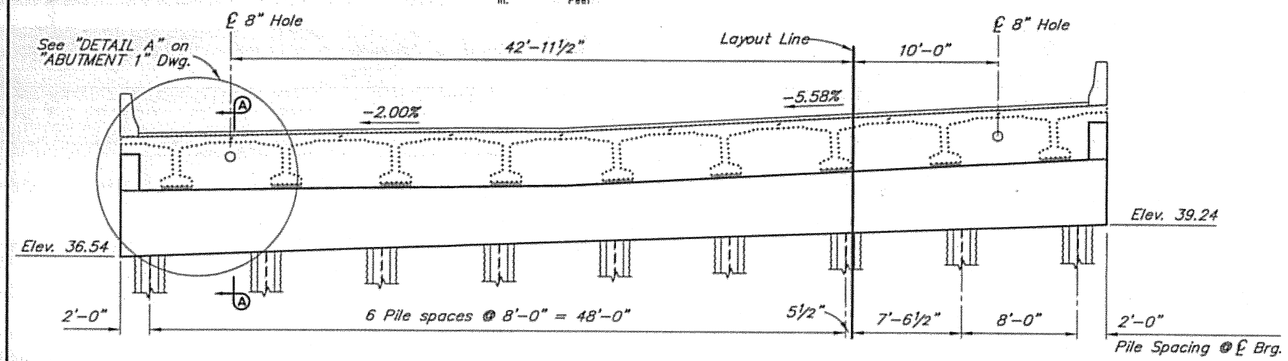
BRIDGE NO. 2192

DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N23	269

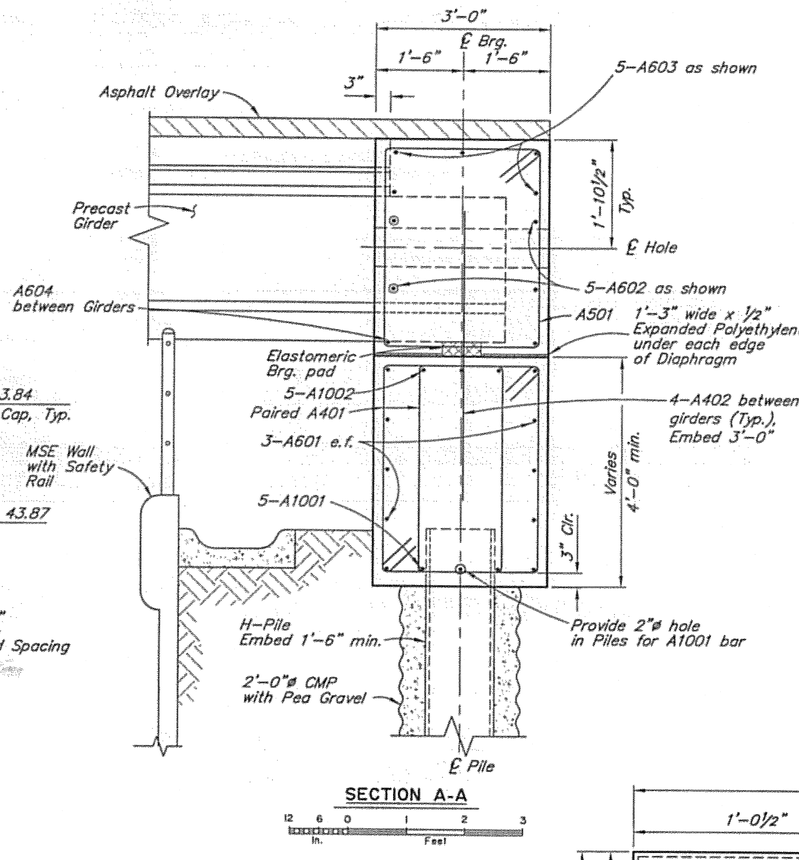


PLAN



ELEVATION

(Looking ahead on station)

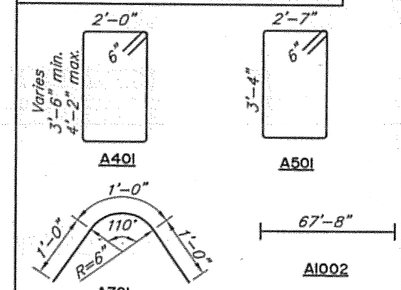


SECTION A-A

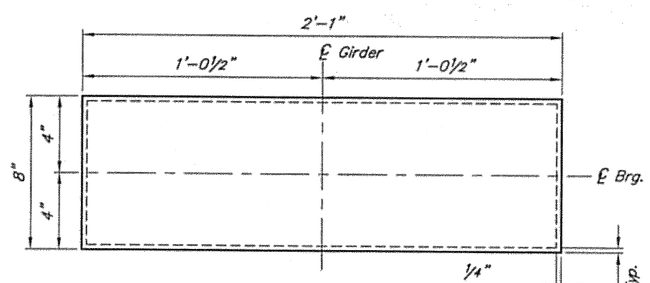
	MARK	SIZE	NO.	LENGTH	TYPE
	A401	4	172	Varies	BENT
	A402	4	32	6'-0"	——
a	A501	5	70	12'-10"	BENT
d	A601	6	6	67'-8"	——
a,b,d	A602	6	5	65'-0"	——
a,b,d	A603	6	5	67'-8"	——
a	A604	6	8	5'-1"	——
a	A701	7	8	3'-0"	BENT
d	A1001	10	5	67'-8"	——
b,c,d	A1002	10	5	67'-8"	HEADED

REINFORCING STEEL-ABUT. TWO

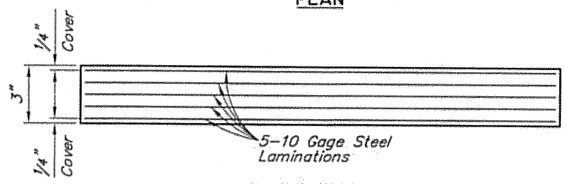
BENDING DIAGRAM



a – Epoxy coated
b – Field adjust and match cross slope.
c – Headed bar to conform to ASTM A970.
d – does not include splice length.



PLAN



ELEVATION

ELASTOMERIC BEARING PAD

(50 Durometer, Grade 5)
Dead Load = 73 k
Live Load = 72 k

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

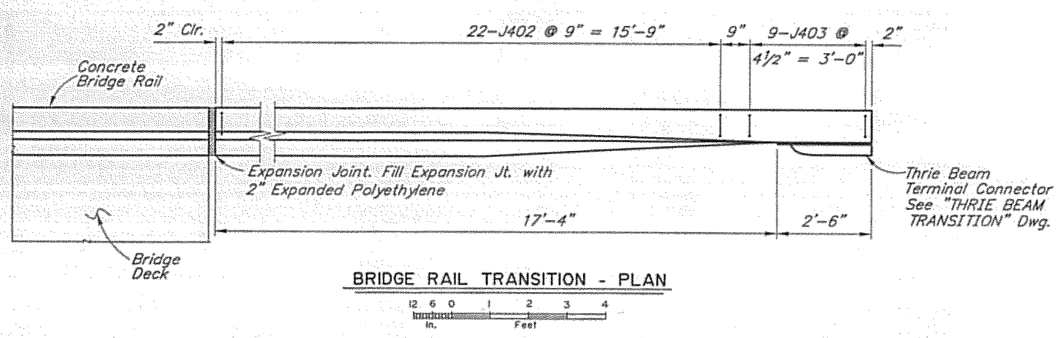
EGAN DRIVE

ABUTMENT 2

BRIDGE NO. 2192

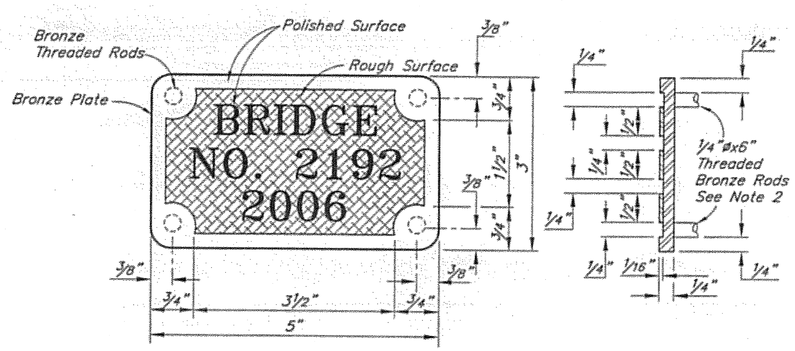
DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N27	269



BRIDGE RAIL TRANSITION - PLAN

12 6 0 1 2 3 4 In. Feet

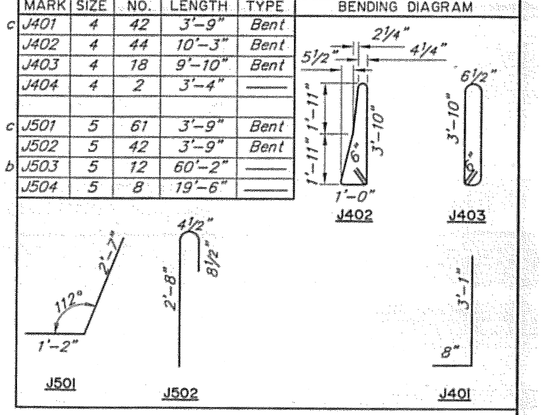


BRONZE BRIDGE NO. PLATE

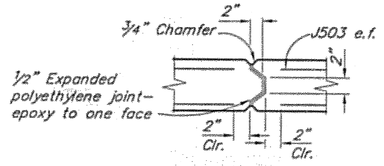
No Scale

a- REINFORCING STEEL-ONE RAIL

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
c	J401	4	42	3'-9"	Bent	
	J402	4	44	10'-3"	Bent	
	J403	4	18	9'-10"	Bent	
	J404	4	2	3'-4"	——	
c	J501	5	61	3'-9"	Bent	
	J502	5	42	3'-9"	Bent	
b	J503	5	12	60'-2"	——	
	J504	5	8	19'-6"	——	

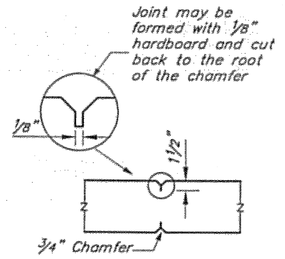


a – Epoxy coat all reinforcing steel.
b – Length does not include Lap Splices. Minimum Lap Splice length for No. 5 Bar = 3'-0".
c – Ship 6 loose.



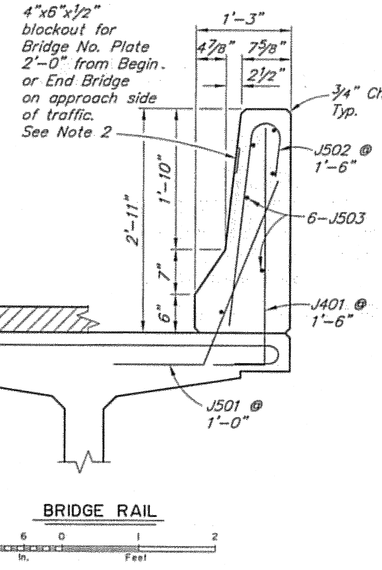
MIDSPAN EXPANSION JOINT

Locate at Midspan
No Scale



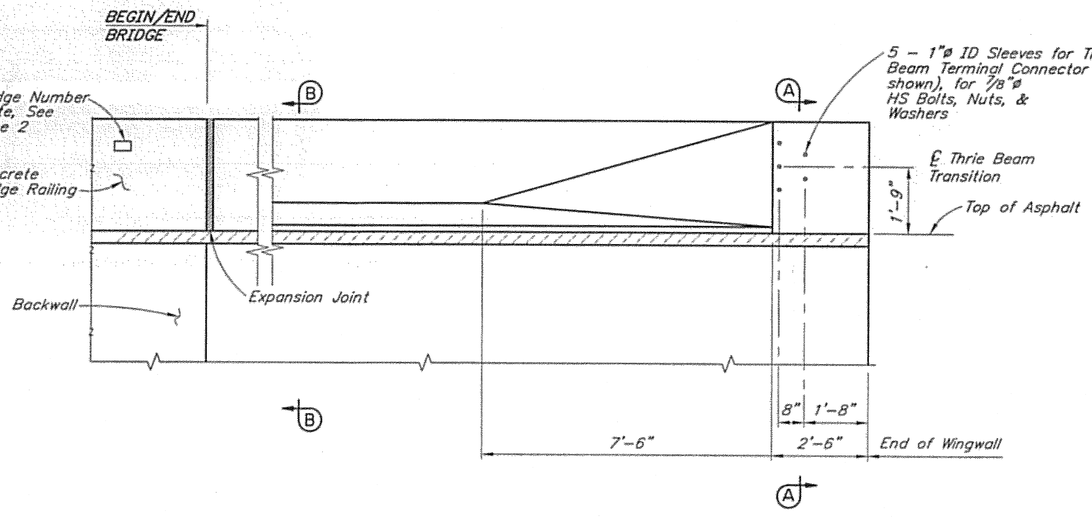
WEAKENED PLANE JOINT

Locate at ¼ Span
No Scale



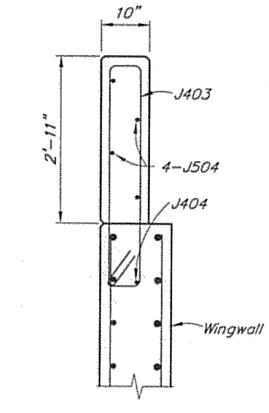
BRIDGE RAIL

12 6 0 1 2 In. Feet



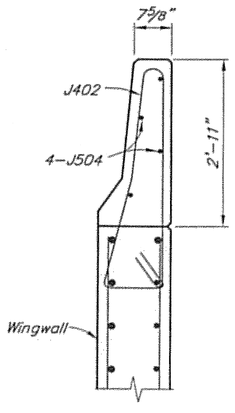
BRIDGE RAIL TRANSITION - ELEVATION

12 6 0 1 2 3 4 In. Feet



SECTION A-A

12 6 0 1 2 3 In. Feet



SECTION B-B

12 6 0 1 2 3 In. Feet

NOTES

1. Construct bridge rail plumb.
2. Furnish and install two bronze bridge number plates conforming to A.S.T.M. B98-90 Alloy "A" or "B". Use "CENTURY" type style. Studs to be ¼"ø bronze threaded rods brazed to back of plate. Epoxy bond rods into ⅞"ø holes in concrete bridge rail blockout Use epoxy suitable for exterior application and compatible with materials to be bonded. Follow epoxy manufacturer's instructions.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

EGAN DRIVE

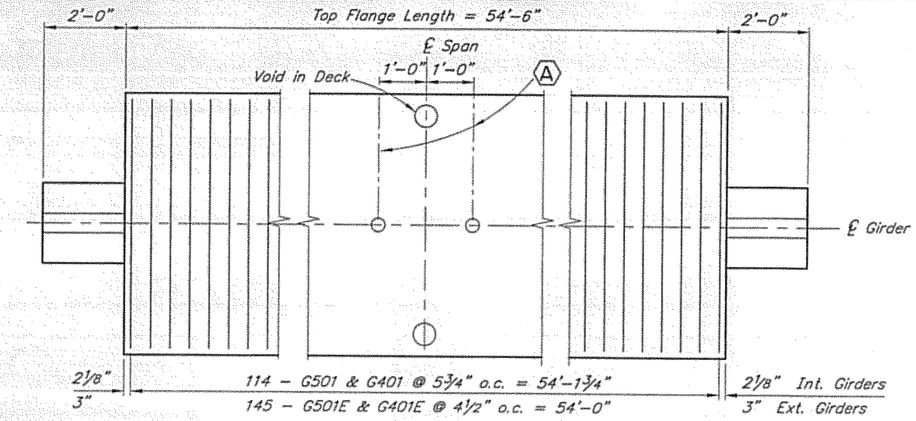
CONCRETE BRIDGE RAILING

BRIDGE NO. 2192

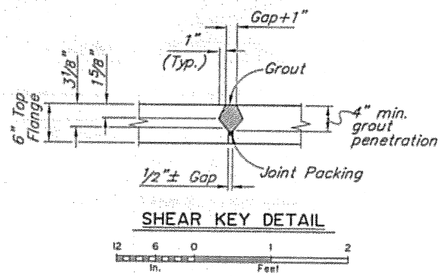
DWG. NO. 8

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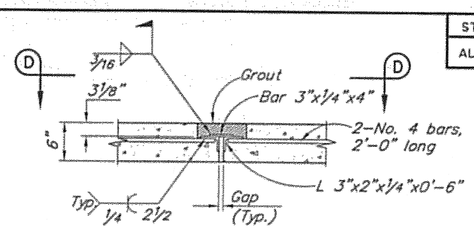
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N26	269



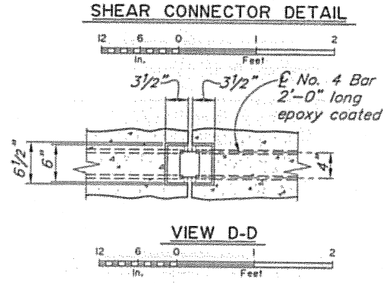
PLAN
No Scale



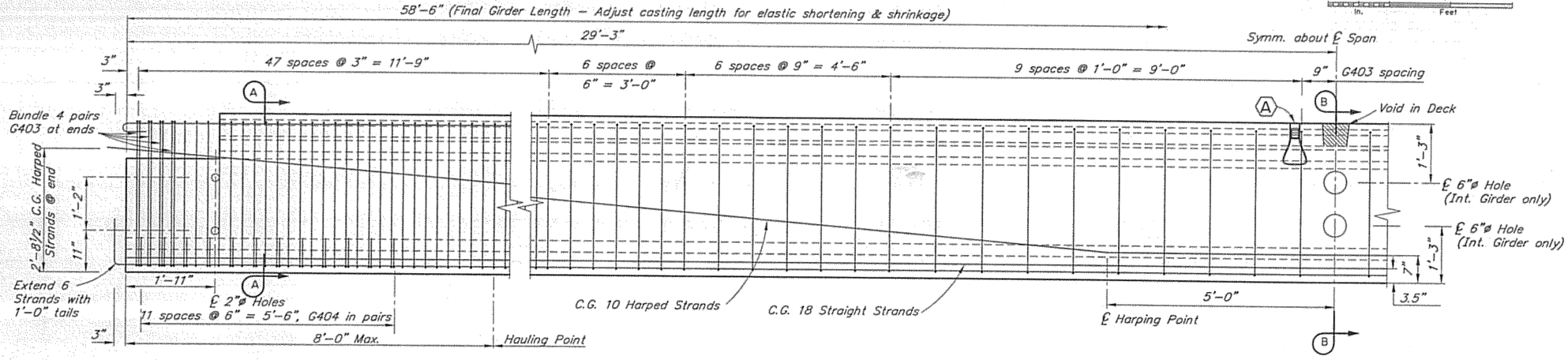
SHEAR KEY DETAIL



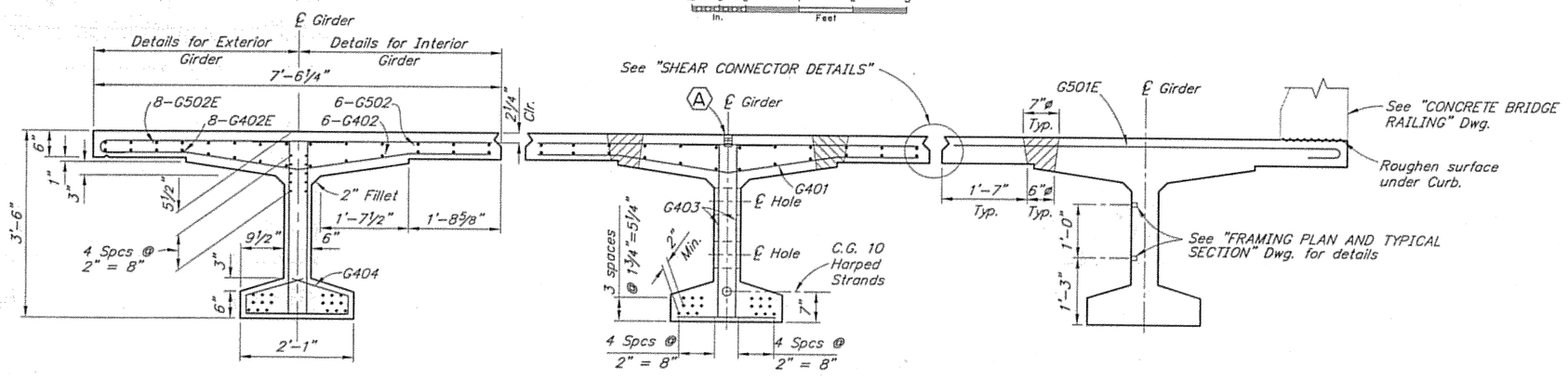
SHEAR CONNECTOR DETAIL



VIEW D-D



ELEVATION



SECTION A-A

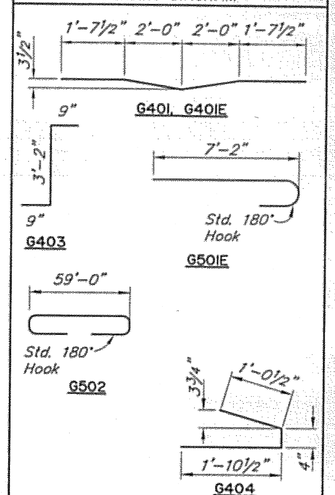
SECTION B-B

EXTERIOR GIRDER NEAR MID SPAN
(Unrelated Reinforcement not shown)

a REINFORCING STEEL SCHEDULE-ONE GIRDER

	MARK	SIZE	NO.	LENGTH	TYPE
	G401	4	114	7'-3"	Bent
e	G401E	4	145	7'-3"	Bent
b	G402	4	12	54'-4"	–
b,e	G402E	4	16	54'-4"	–
	G403	4	292	4'-8"	Bent
	G404	4	48	3'-3"	Bent
	G501	5	114	7'-3"	–
e	G501E	5	145	7'-9"	Bent
b	G502	5	12	60'-2"	Bent
b,e	G502E	5	16	60'-2"	Bent

BENDING DIAGRAM



a – Epoxy coat all Girder reinforcing
b – Length does not include splices. Minimum lap splice length for splices shall be: 2'-0" for #4 bars, 2'-6" for #5 bars.
e – Exterior Girder only.

GIRDER NOTES

Use normal weight concrete having the following strengths:
At Stress Transfer f'ci = 5000 psi
At 28 days f'c = 5500 psi

Use ½" round low relaxation strands having an ultimate strength of 270 ksi and a cross section area of 0.153 in².

Design is based on the following steel stresses:
Pretensioning – Jacking Stress 189 ksi
After initial losses – 175 ksi
After all losses – 143 ksi

1" clear on all reinforcing except as noted.

Deflect forms to compensate for camber and roadway grade.

Provide a magnesium float finish on the roadway surface of the precast member. Roughen the surface under the railing.

Omit Shear Key and Shear Connector on outside of exterior girders.

Cast Girder ends plumb with respect to roadway grade.

(A) 1"x1'-0" Coil Anchor Insert for vertical adjustment of girders. Recess 2". Prevent concrete from filling hole.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

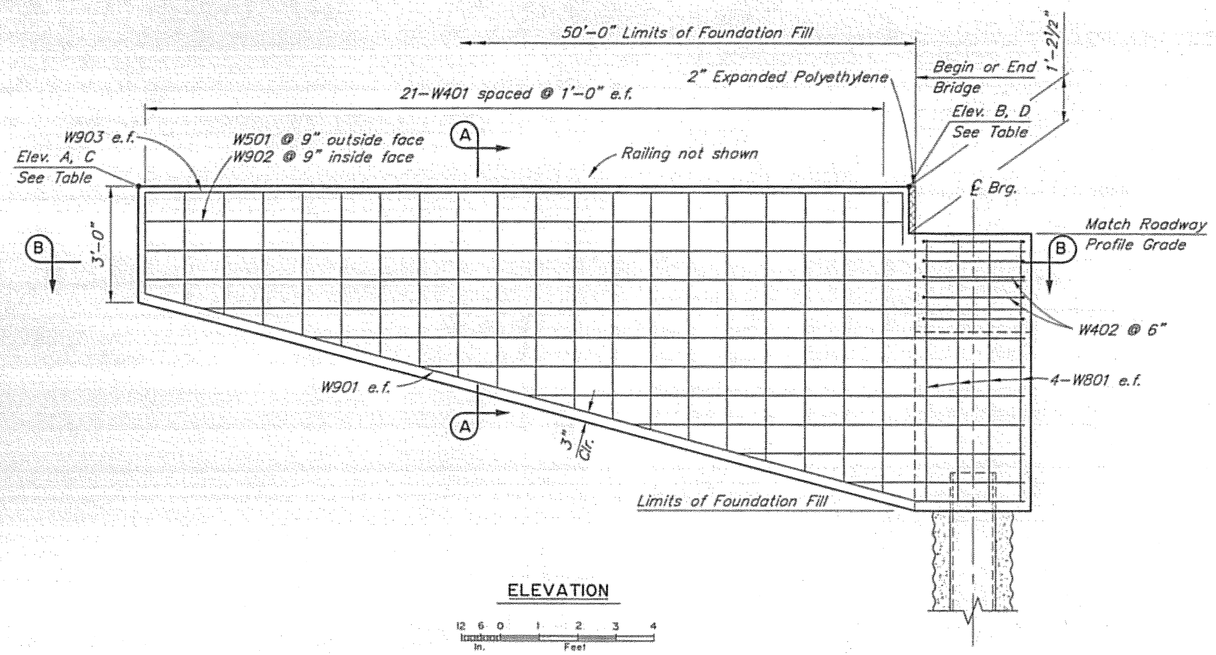
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

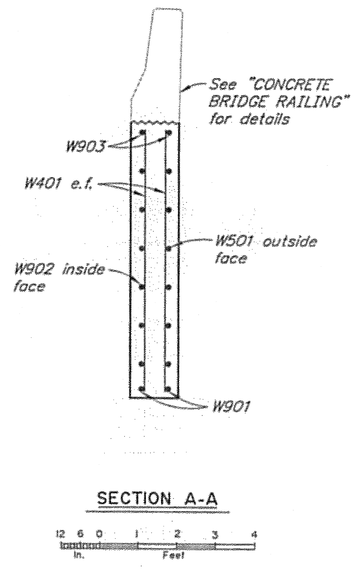
STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
4/13/06

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND
EGAN DRIVE
GIRDERS

BRIDGE NO. 2192
DWG. NO. 7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N24	269

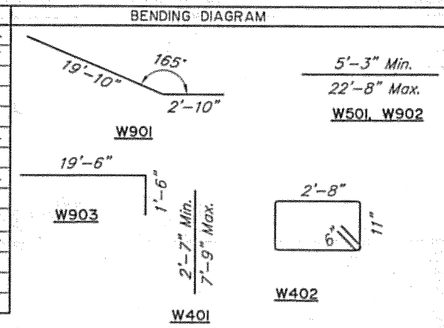




REINFORCING STEEL - ONE ABUTMENT

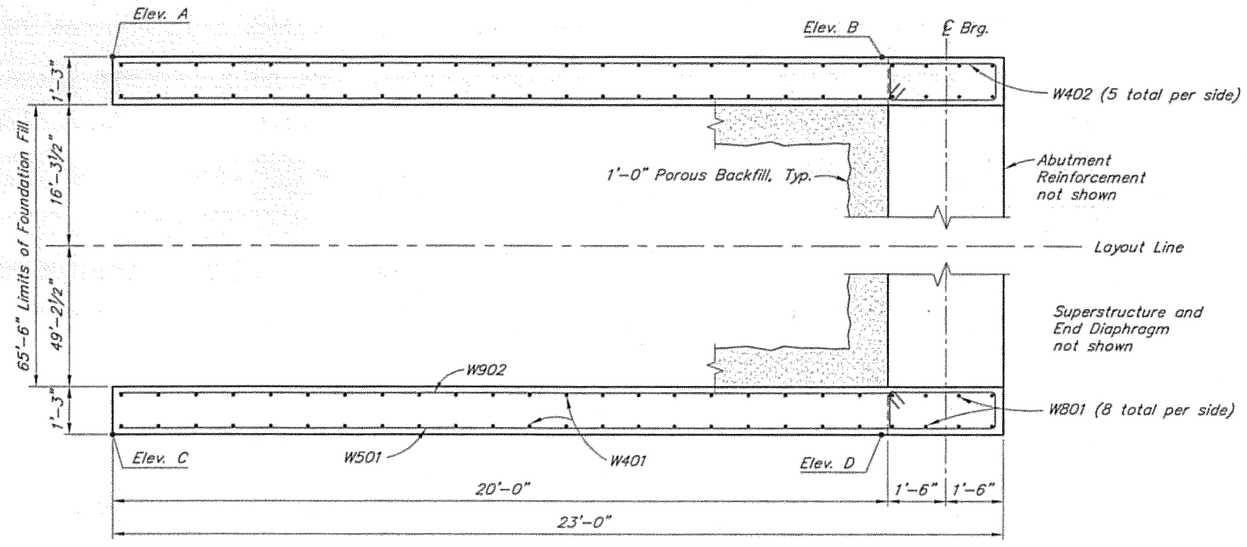
MARK	SIZE	NO.	LENGTH	TYPE
W401	4	84	Varies	——
W402	4	10	8'-2"	Bent
W501	5	20	Varies	——
W801	8	16	6'-0"	——
W901	9	4	22'-8"	Bent
W902	9	20	Varies	——
W903	9	4	21'-0"	Bent

BENDING DIAGRAM



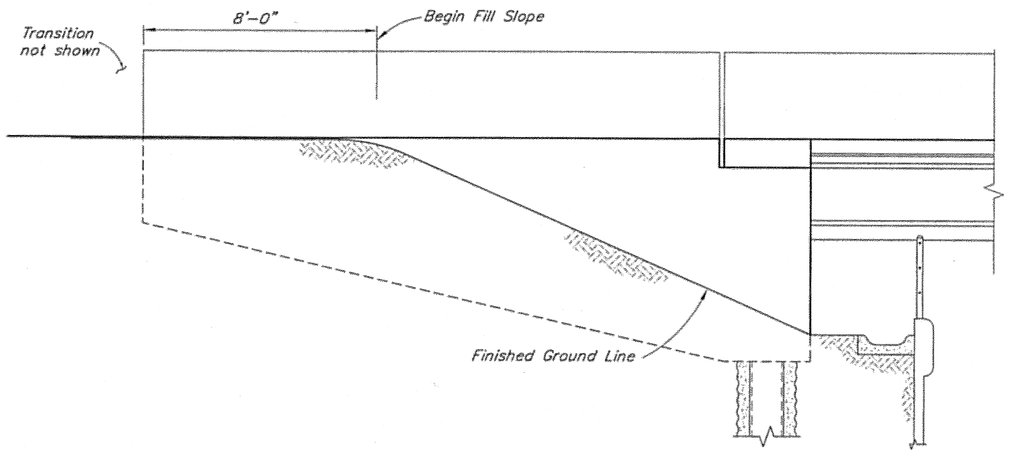
TOP OF WALL ELEVATION TABLE (FT)

LOCATION	A LEFT	B LEFT	C RIGHT	D RIGHT
ABUTMENT 1	45.81	45.58	48.42	48.19
ABUTMENT 2	44.70	44.91	47.32	47.53



SECTION B-B

12 6 0 1 2 3 4
In. Feet



FINISHED ELEVATION

12 0 1 2 3 4
In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

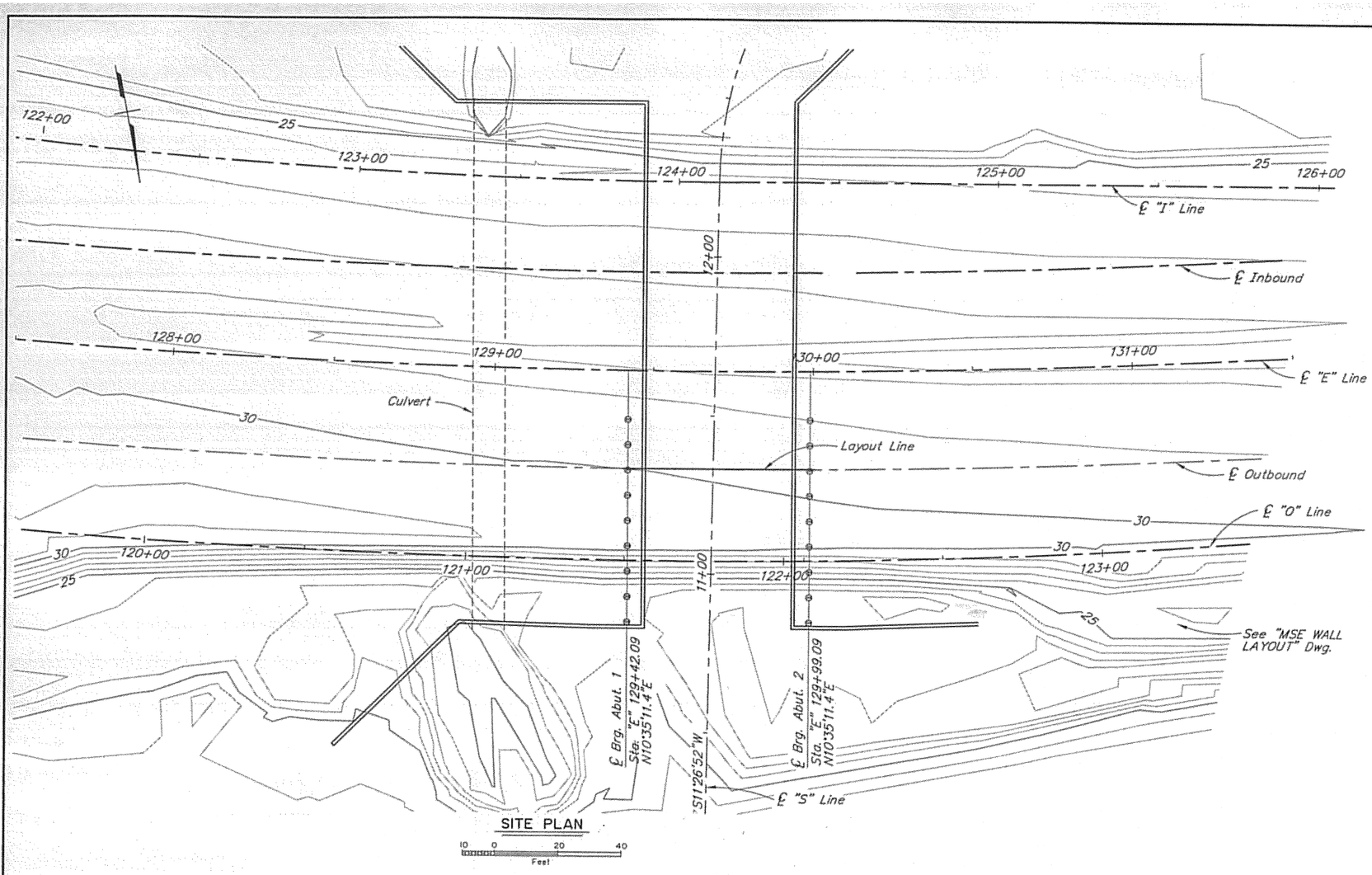
EGAN DRIVE

WINGWALLS

BRIDGE NO. 2192

DWG NO. 5

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N30	269



SITE PLAN

GENERAL NOTES

DESIGN: .....AASHTO LRFD Bridge Design Specifications, Third Edition, 2004, with latest interim specifications.

LIVE LOAD:.....HL-93

DEAD LOAD:.....Includes 50 psf for all wearing surfacing.

SEISMIC PARAMETERS:.....Acceleration Coefficient, a = 0.15
Site Coefficient, s = 1.5
Liquefaction Potential = High
AASHTO 90% probability of not being exceeded in 50 years.

REINFORCEMENT:.....ASTM A706, Fy = 60,000 psi
Space reinforcement evenly unless otherwise noted.
ASTM A970 for all headed bars.

PRESTRESSED CONCRETE:.....See "GIRDERS" Dwg.

CONCRETE:.....Use Class A Concrete concrete unless otherwise noted, f'c = 4000 psi

STRUCTURAL STEEL:.....ASTM A709, Grade 36, Fy = 36,000 psi. Unless otherwise noted.

PILING:.....ASTM A709, Grade 50, Fy = 50,000 psi. Pile tip reinforcing is required.

PILE DATA TABLE

LOCATION	PILE TYPE	MINIMUM TIP ELEVATION	ESTIMATED TIP ELEVATION	ULTIMATE CAPACITY	DESIGN LOAD
Abutment 1	HP14x117	-10.0 ft.	-32.0 ft.	370 k	160 k
Abutment 2	HP14x117	-10.0 ft.	-32.0 ft.	370 k	160 k

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
205(3)	Foundation Fill	CY	CY	1700	——	1700
501(1)	Class A Concrete	LS	CY	79.0	55.5	134.1
501(7B)	Precast Concrete Member (58'x42" Girder)	EA	EA	——	9	9
503(1)	Reinforcing Steel	LS	LBS	14,255	——	14,255
503(2)	Epoxy-Coated Reinforcing Steel	LS	LBS	4090	840	4930
505(5)	Furnish Structural Steel Piles	LF	LF	1353.8	——	1353.8
505(6)	Drive Structural Steel Piles	EA	EA	18	——	18
507(4)	Concrete Bridge Railing	LF	LF	——	180.0	180.0
508(1)	Waterproofing Membrane	LS	SF	——	3930	3930
606(12)	Guardrail / Bridge Rail Connection	EA	EA	——	2	2

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ABBREVIATIONS

℄	= Centerline	Hwy.	= Highway
℗	= Plate	k	= thousand pounds
&	= and	Lbs.	= pounds
@	= at	LS	= lump sum
ø	= diameter	max.	= maximum
Approx.	= approximate	min.	= minimum
Abut.	= Abutment	n.a.	= not applicable
bot.	= bottom	n.c.	= not calculated
Br.	= Bridge	n.f.	= near face
btwn.	= between	No.	= number
Brg.	= Bearings	o.c.	= on center
C.I.P.	= Cast-in-Place	O.H.W.	= Ordinary High Water
Clr.	= Clear, Clearance	psi	= pounds per square inch
col.	= column	Req'd	= required
dia.	= diameter	R/W	= right of way
D.H.W.	= Design High Water	spc.	= space, spaces
Dwg.	= drawing	Sta.	= station
(E)	= existing	Subst.	= substructure
Ea.	= each	Superst.	= superstructure
Elev.	= elevation	Symm.	= symmetric
e.f.	= each face	SY	= square yard
f.f.	= far face	Typ.	= typical
Grd.	= girder	UT	= utrasonic testing

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	HYDRAULICS BY:	CHECKED BY:
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	FOUNDATIONS REVIEWED BY: Bruce Burnette	
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING NORTHBOUND

EGAN DRIVE

SITE PLAN

BRIDGE NO. 2127

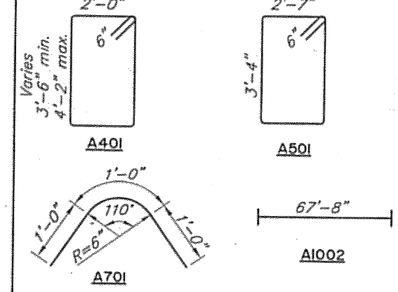
DWG. NO. 2

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N22	269

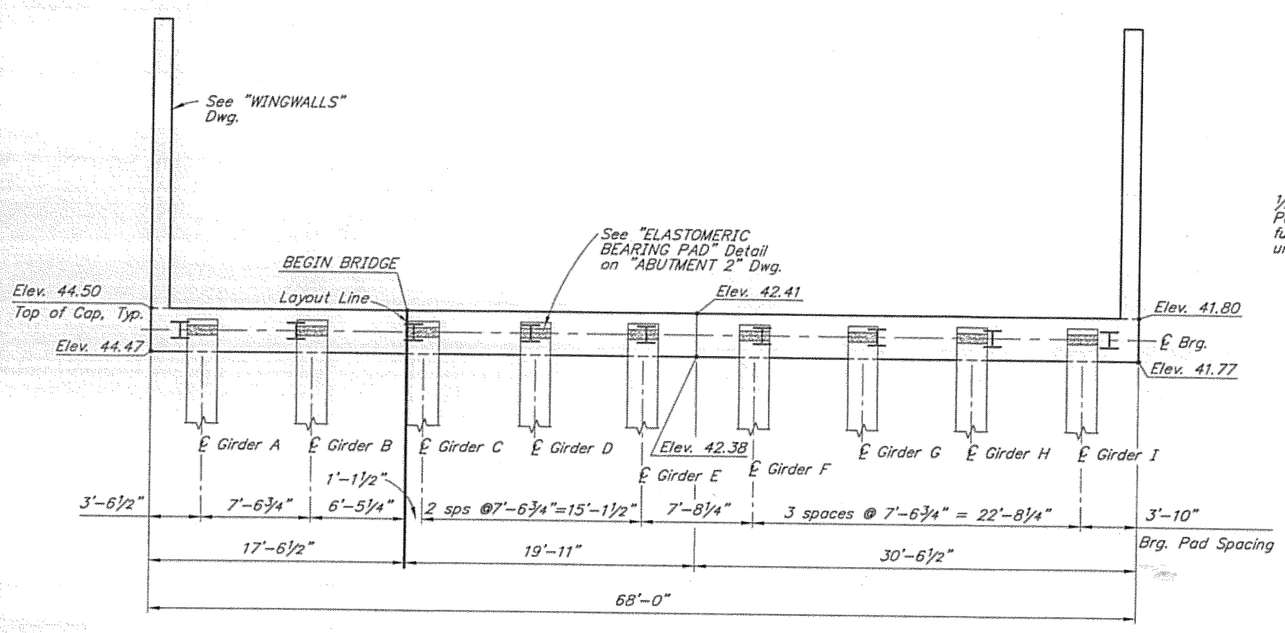
REINFORCING STEEL-ABUT. ONE

	MARK	SIZE	NO.	LENGTH	TYPE
	A401	4	172	Varies	BENT
a	A501	5	70	12'-10"	BENT
d	A601	6	6	67'-8"	——
a,b,d	A602	6	5	65'-0"	——
a,b,d	A603	6	5	67'-8"	——
a	A604	6	8	5'-1"	——
a	A701	7	8	3'-0"	BENT
d	A1001	10	5	67'-8"	——
b,c,d	A1002	10	5	67'-8"	HEADED

BENDING DIAGRAM

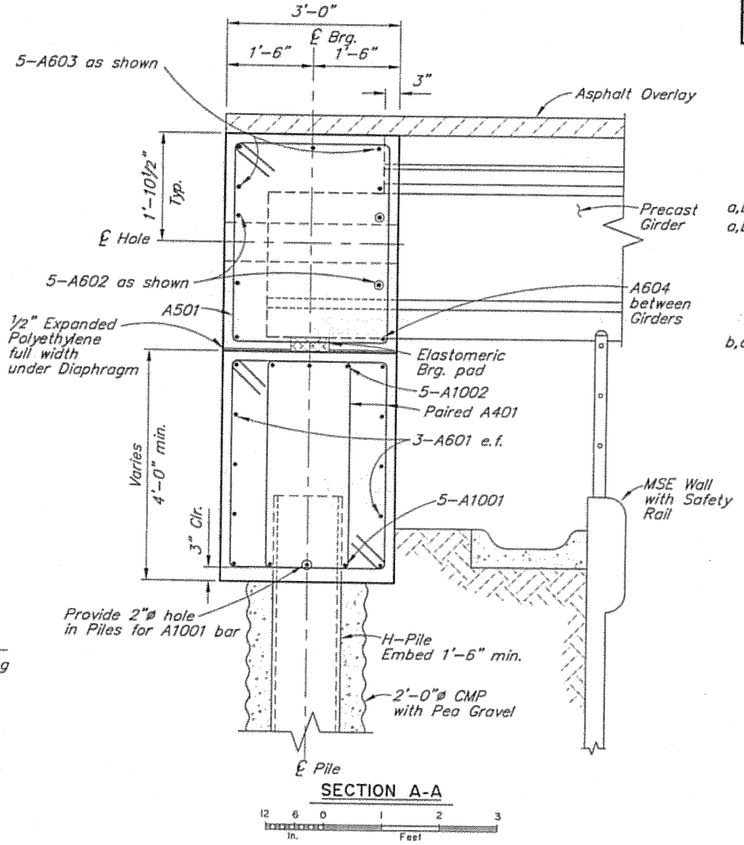


a – Epoxy coated
b – Field adjust and match cross slope.
c – Headed bar to conform to ASTM A970.
d – Does not include splice length.



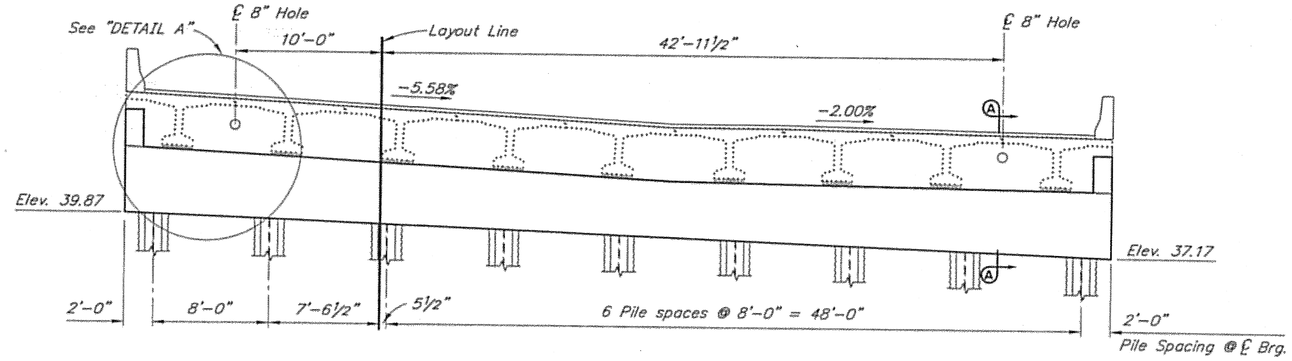
PLAN

12 0 5 10
In. Feet



SECTION A-A

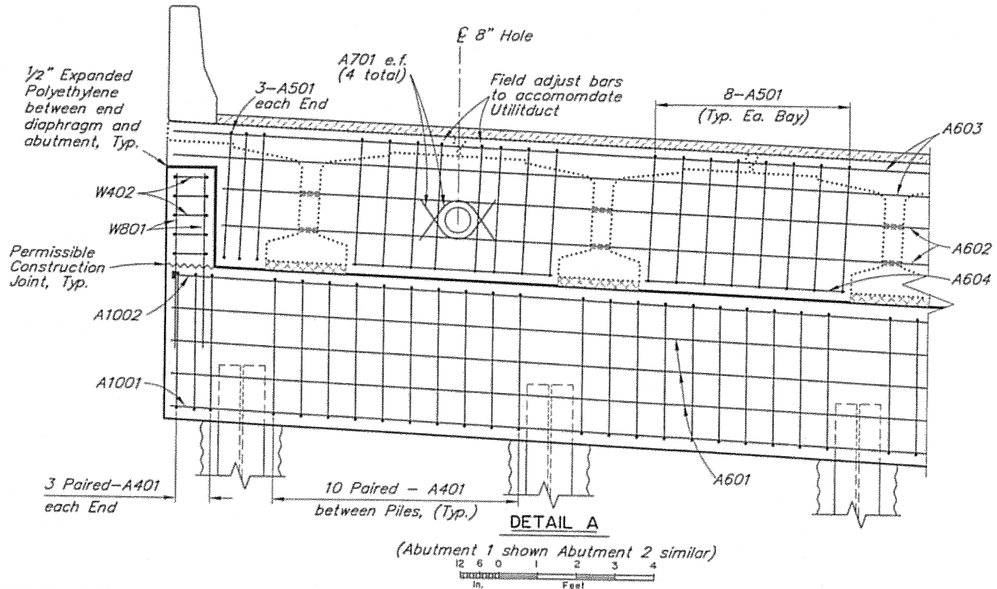
12 6 0 1 2 3
In. Feet



ELEVATION

(Looking back on station)

12 0 5 10
In. Feet



DETAIL A

(Abutment 1 shown Abutment 2 similar)

12 6 0 1 2 3 4
In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
6/15/06
REGISTERED PROFESSIONAL ENGINEER

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

EGAN DRIVE

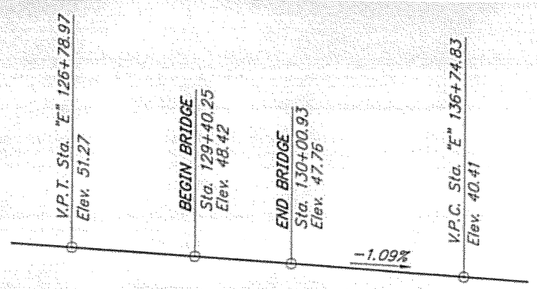
ABUTMENT 1

BRIDGE NO. 2192

DWG. NO. 3

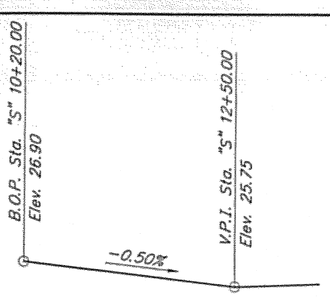
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N20	289



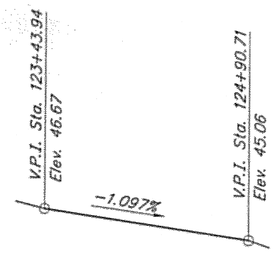
PROFILE GRADE "E" LINE

No Scale



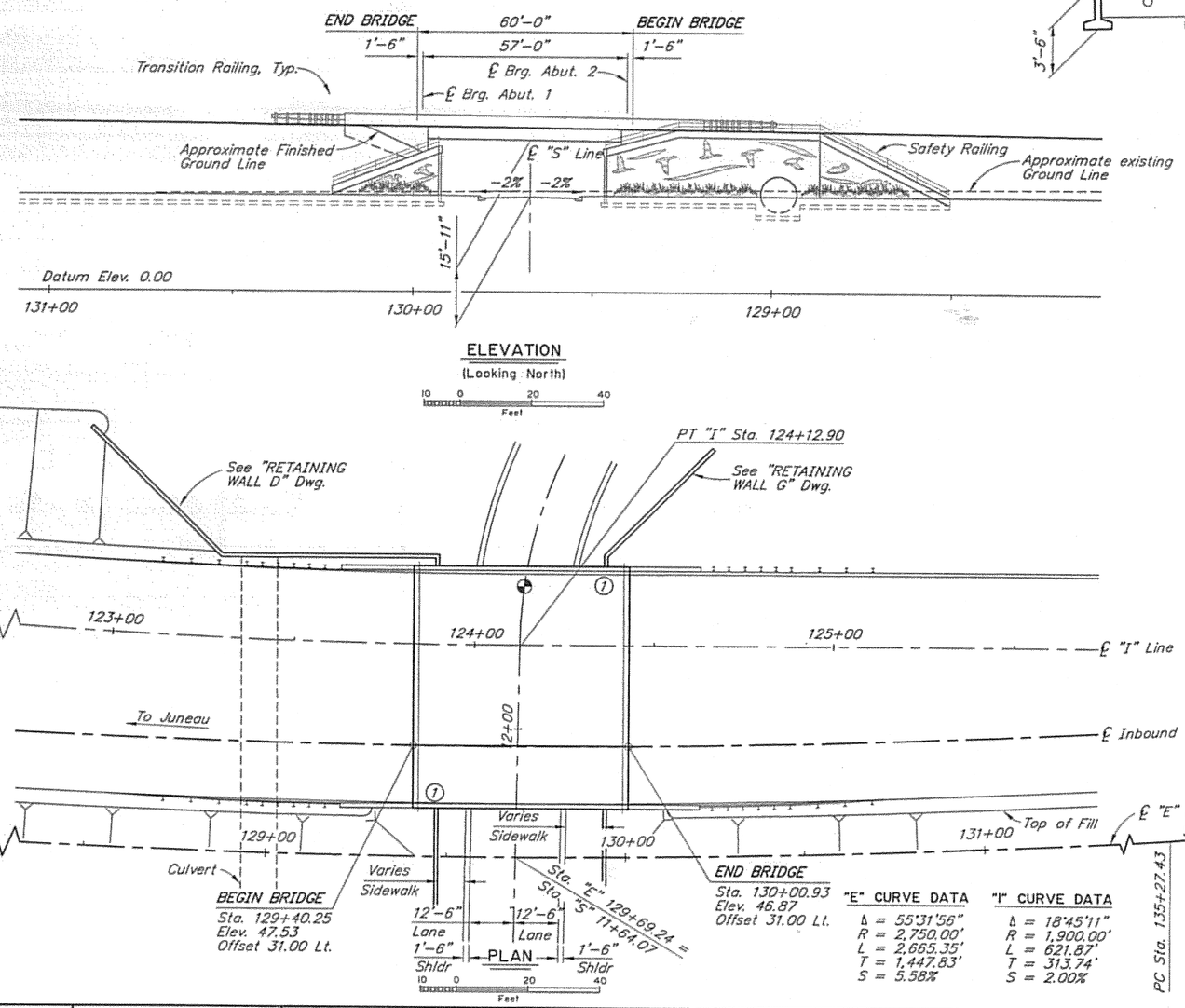
PROFILE GRADE "S" LINE

No Scale



PROFILE GRADE "I" LINE

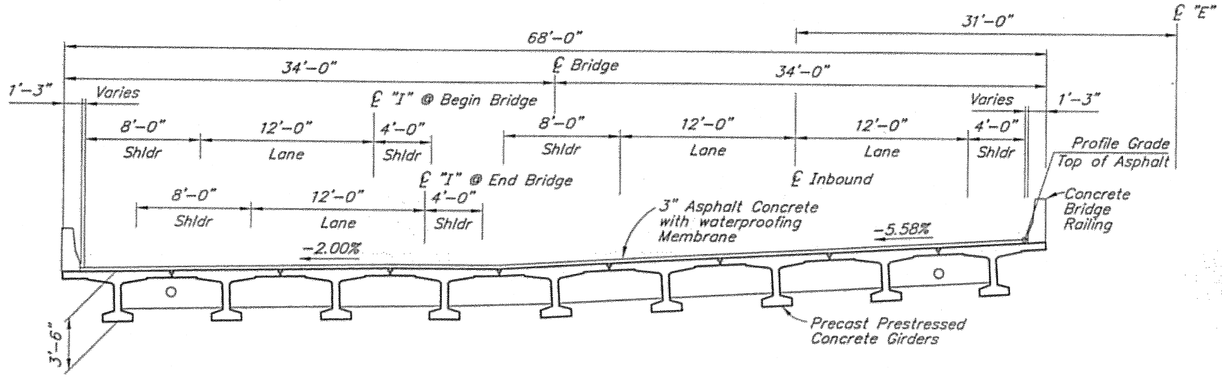
No Scale



ELEVATION

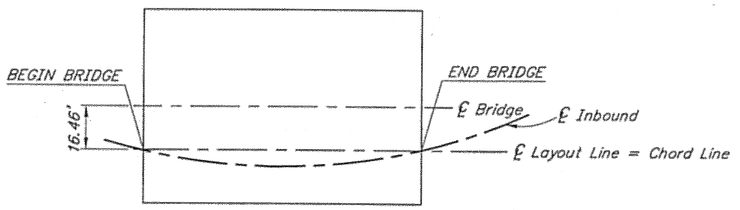
(Looking North)

10 0 20 40 Feet



TYPICAL SECTION

12 0 5 10 In. Feet



LAYOUT LINE

No Scale

"E" CURVE DATA	"I" CURVE DATA
Δ = 55°31'56"	Δ = 18°45'11"
R = 2,750.00'	R = 1,900.00'
L = 2,665.35'	L = 621.87'
T = 1,447.83'	T = 313.74'
S = 5.58%	S = 2.00%

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
SITE PLAN	2
ABUTMENT 1	3
ABUTMENT 2	4
WINGWALLS	5
FRAMING PLAN AND TYPICAL SECTION	6
GIRDERS	7
CONCRETE BRIDGE RAILING	8
THRIE BEAM TRANSITION	9

① Approximate location of Bridge Number Plate.

Point of minimum vertical clearance.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	LAYOUT BY: Elmer Marx	CHECKED BY: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	SPECIFICATIONS BY: Elmer Marx	P S & E COMPARED: Keith Carlson
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson	APPROVAL RECOMMENDED BY: Rich Pratt	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH Elmer E. Marx III No. CE 9490 REGISTERED PROFESSIONAL ENGINEER 11/13/06

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

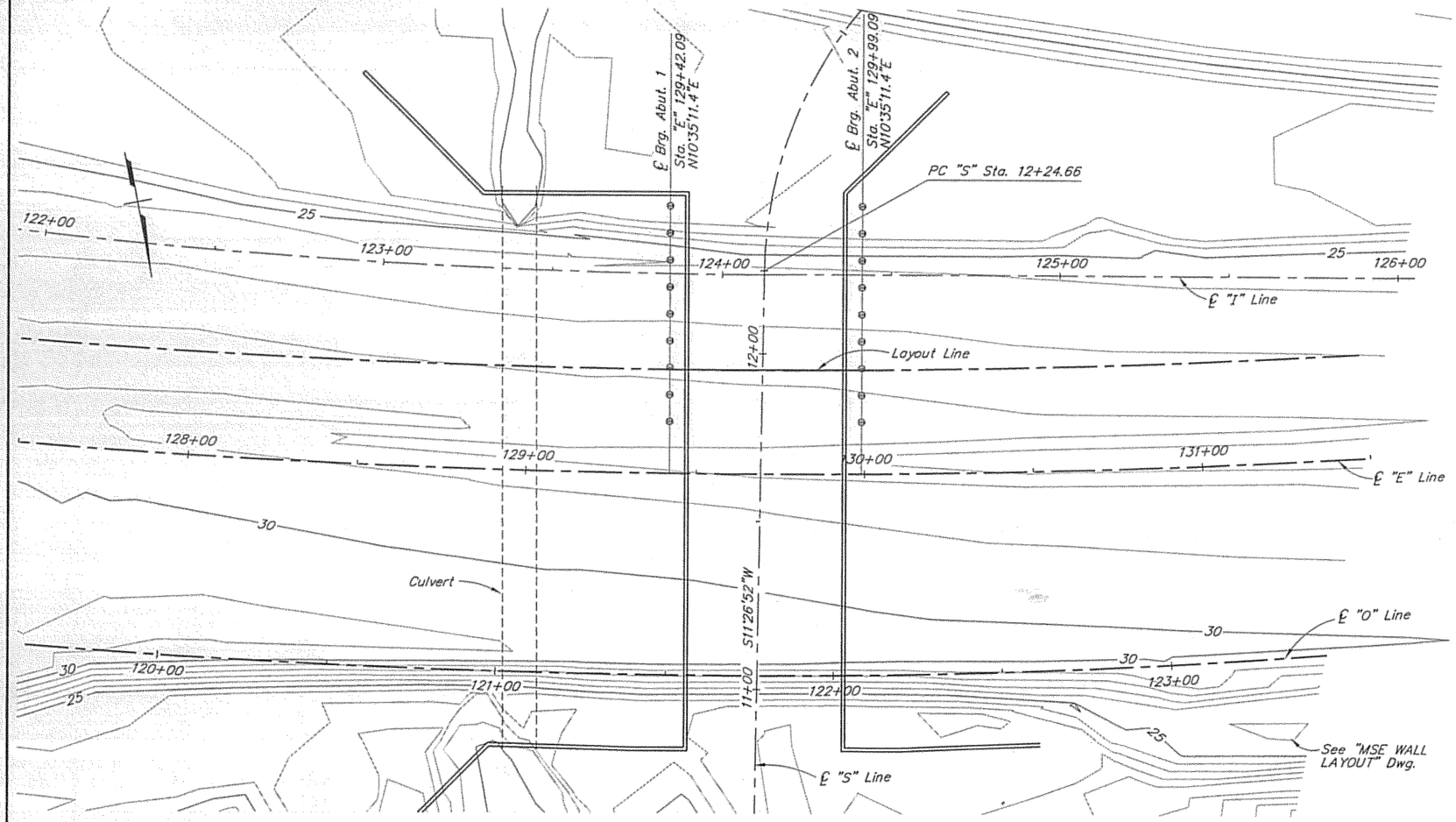
EGAN DRIVE

GENERAL LAYOUT

BRIDGE NO. 2192

DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N21	269



SITE PLAN

10 0 20 40
Feet

GENERAL NOTES

DESIGN: .....AASHTO LRFD Bridge Design Specifications, Third Edition, 2004, with latest interim specifications.

LIVE LOAD:.....HL-93

DEAD LOAD:.....Includes 50 psf for all wearing surfacing.

SEISMIC PARAMETERS:.....Acceleration Coefficient, a = 0.15
Site Coefficient, s = 1.5
Liquefaction Potential = High
AASHTO 90% probability of not being exceeded in 50 years.

REINFORCEMENT:.....ASTM A706, Fy = 60,000 psi
Space reinforcement evenly unless otherwise noted.
ASTM A970 for all headed bars.

PRESTRESSED CONCRETE:.....See "GIRDERS" Dwg.

CONCRETE:.....Use Class A Concrete concrete unless otherwise noted, f'c = 4000 psi

STRUCTURAL STEEL:.....ASTM A709, Grade 36, Fy = 36,000 psi.
Unless otherwise noted.

PILING:.....ASTM A709, Grade 50, Fy = 50,000 psi.
Pile tip reinforcing is required.

PILE DATA TABLE

LOCATION	PILE TYPE	MINIMUM TIP ELEVATION	ESTIMATED TIP ELEVATION	ULTIMATE CAPACITY	DESIGN LOAD
Abutment 1	HP14x117	-10.0 ft.	-32.0 ft.	370 k	160 k
Abutment 2	HP14x117	-10.0 ft.	-32.0 ft.	370 k	160 k

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
205(3)	Foundation Fill	CY	CY	1700	———	1700
501(1)	Class A Concrete	LS	CY	85.0	55.3	140.3
501(7B)	Precast Concrete Member (58'x42" Girder)	EA	EA	———	9	9
503(1)	Reinforcing Steel	LS	LBS	15,405	———	15,405
503(2)	Epoxy-Coated Reinforcing Steel	LS	LBS	4090	840	4930
505(5)	Furnish Structural Steel Piles	LF	LF	1291.6	———	1291.6
505(6)	Drive Structural Steel Piles	EA	EA	18	———	18
507(4)	Concrete Bridge Railing	LF	LF	———	200.0	200.0
508(1)	Waterproofing Membrane	LS	SF	———	3930	3930
606(12)	Guardrail / Bridge Rail Connection	EA	EA	———	4	4

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ABBREVIATIONS

℄	= Centerline	Hwy.	= Highway
ℙ	= Plate	k	= thousand pounds
&	= and	Lbs.	= pounds
@	= at	LS	= lump sum
ø	= diameter	max.	= maximum
Approx.	= approximate	min.	= minimum
Abut.	= Abutment	n.a.	= not applicable
bot.	= bottom	n.c.	= not calculated
Br.	= Bridge	n.f.	= near face
btwn.	= between	No.	= number
Brg.	= Bearings	o.c.	= on center
C.I.P.	= Cast-in-Place	O.H.W.	= Ordinary High Water
Clr.	= Clear, Clearance	psi	= pounds per square inch
col.	= column	Req'd	= required
dia.	= diameter	R/W	= right of way
D.H.W.	= Design High Water	spc.	= space, spaces
Dwg.	= drawing	Sta.	= station
(E)	= existing	Subst.	= substructure
Ea.	= each	Superst.	= superstructure
Elev.	= elevation	Symm.	= symmetric
e.f.	= each face	SY	= square yard
f.f.	= far face	Typ.	= typical
Grd.	= girder	UT	= utrasonic testing

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	HYDRAULICS BY:	CHECKED BY:	
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	FOUNDATIONS REVIEWED BY: Bruce Brunette		
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
6/13/06

SUNNY POINT DRIVE UNDERCROSSING SOUTHBOUND

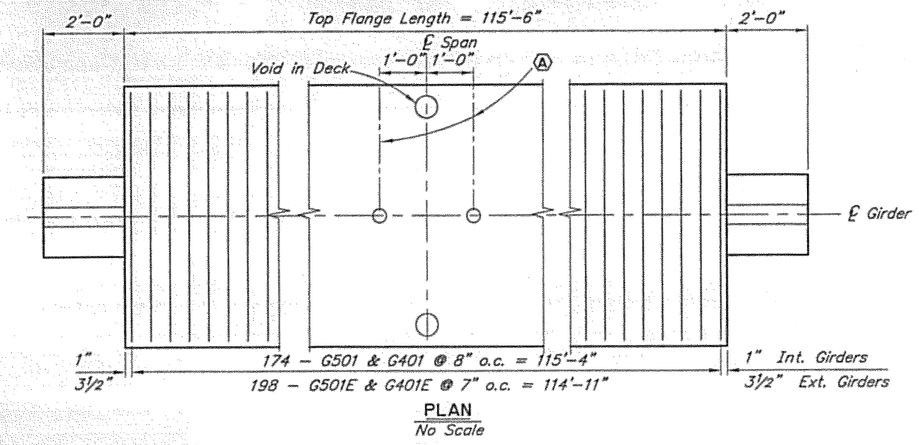
EGAN DRIVE

SITE PLAN

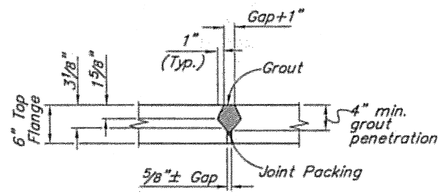
BRIDGE NO. 2192

DWG. NO. 2

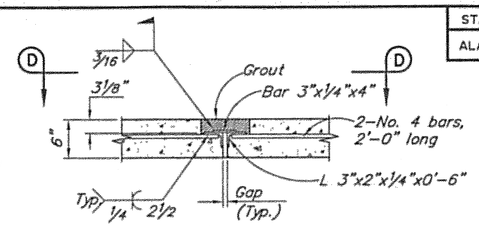
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N16	269



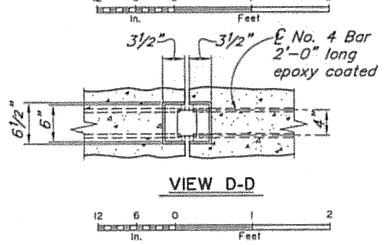
PLAN
No Scale



SHEAR KEY DETAIL

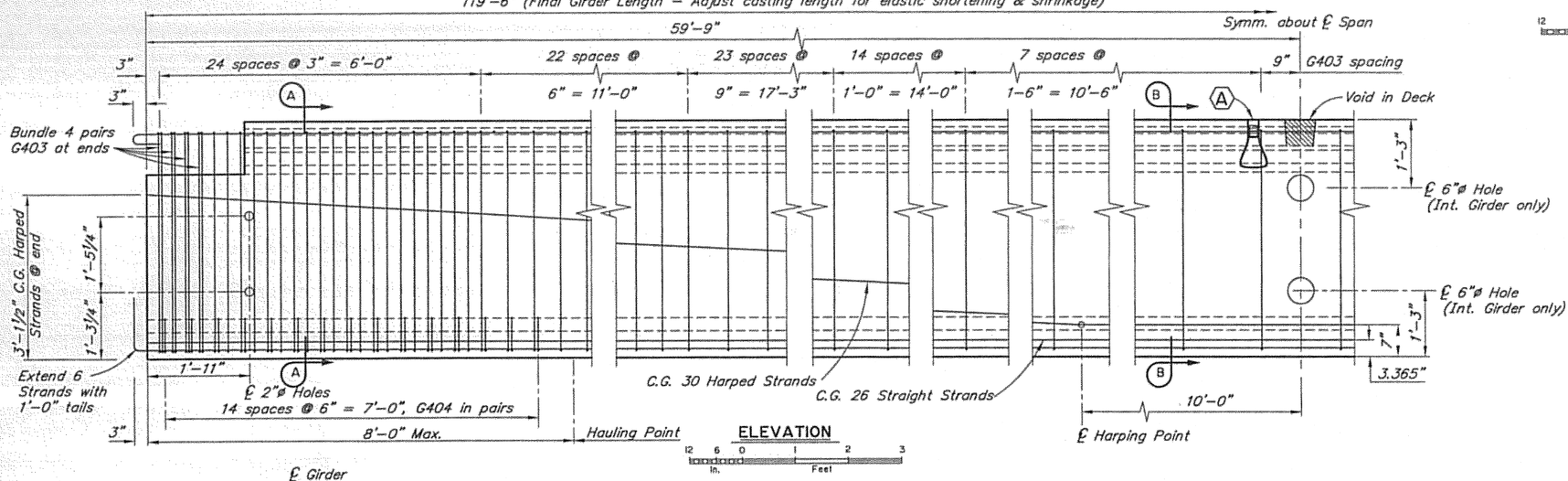


SHEAR CONNECTOR DETAIL

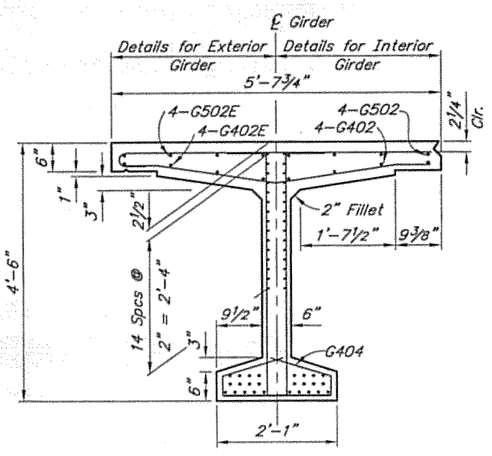


VIEW D-D

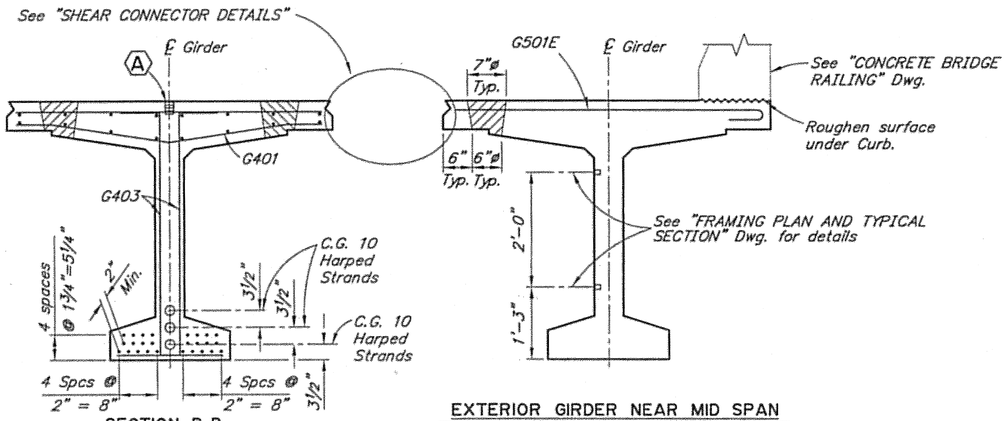
119'-6" (Final Girder Length – Adjust casting length for elastic shortening & shrinkage)



ELEVATION



SECTION A-A



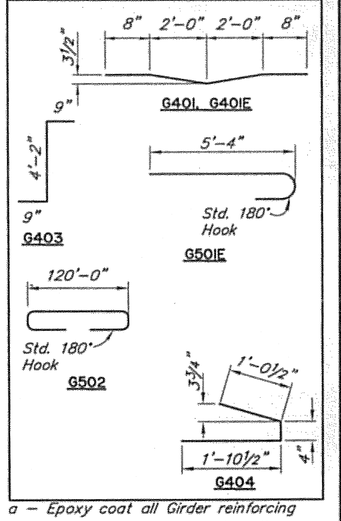
SECTION B-B

EXTERIOR GIRDER NEAR MID SPAN
(Unrelated Reinforcement not shown)

a REINFORCING STEEL SCHEDULE-ONE GIRDER

	MARK	SIZE	NO.	LENGTH	TYPE
	G401	4	174	5'-4½"	Bent
e	G401E	4	198	5'-4½"	Bent
b	G402	4	8	115'-2"	–
b,e	G402E	4	8	115'-2"	–
	G403	4	380	5'-8"	Bent
	G404	4	60	3'-3"	Bent
	G501	5	174	5'-4"	–
e	G501E	5	198	5'-11"	Bent
b	G502	5	8	121'-2"	Bent
b,e	G502E	5	8	121'-2"	Bent

BENDING DIAGRAM



a – Epoxy coat all Girder reinforcing
b – Length does not include splices. Minimum lap splice length for splices shall be: 2'-0" for #4 bars, 2'-6" for #5 bars.
e – Exterior Girder only.

GIRDER NOTES

Use normal weight concrete having the following strengths:
At Stress Transfer $f'ci$ = 6500 psi
At 28 days $f'c$ = 7500 psi

Use ½" round low relaxation strands having an ultimate strength of 270 ksi and a cross section area of 0.153 in.²

Design is based on the following steel stresses:
Pretensioning – Jacking Stress 189 ksi
After initial losses – 170 ksi
After all losses – 141 ksi

1" clear on all reinforcing except as noted.

Deflect forms to compensate for camber and roadway grade.

Provide a magnesium float finish on the roadway surface of the precast member. Roughen the surface under the railing.

Omit Shear Key and Shear Connector on outside of exterior girders.

Cast Girder ends plumb with respect to roadway grade.

(A) 1"x1'-0" Coil Anchor Insert for vertical adjustment of girders. Recess 2". Prevent concrete from filling hole.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

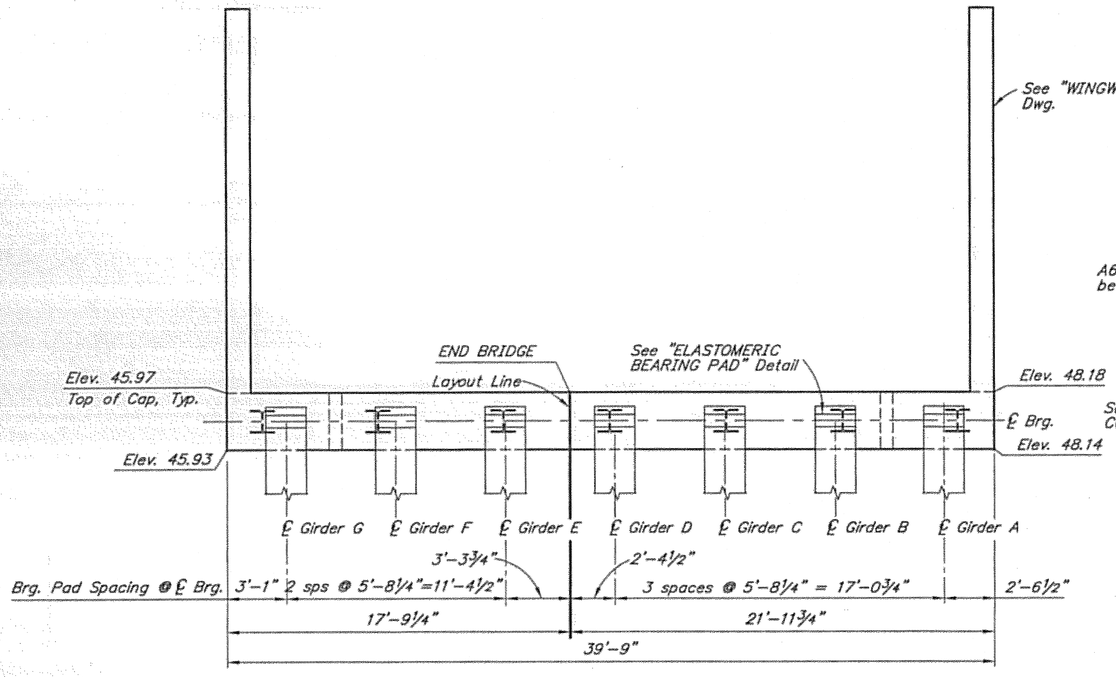
EGAN DRIVE

GIRDERS

BRIDGE NO. 2193
DWG. NO. 7

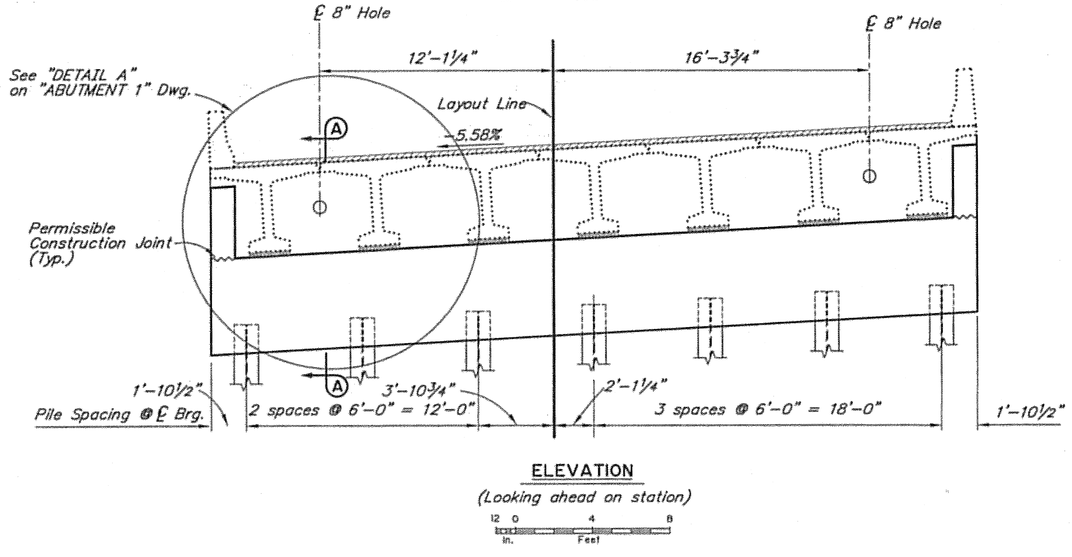
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N13	269



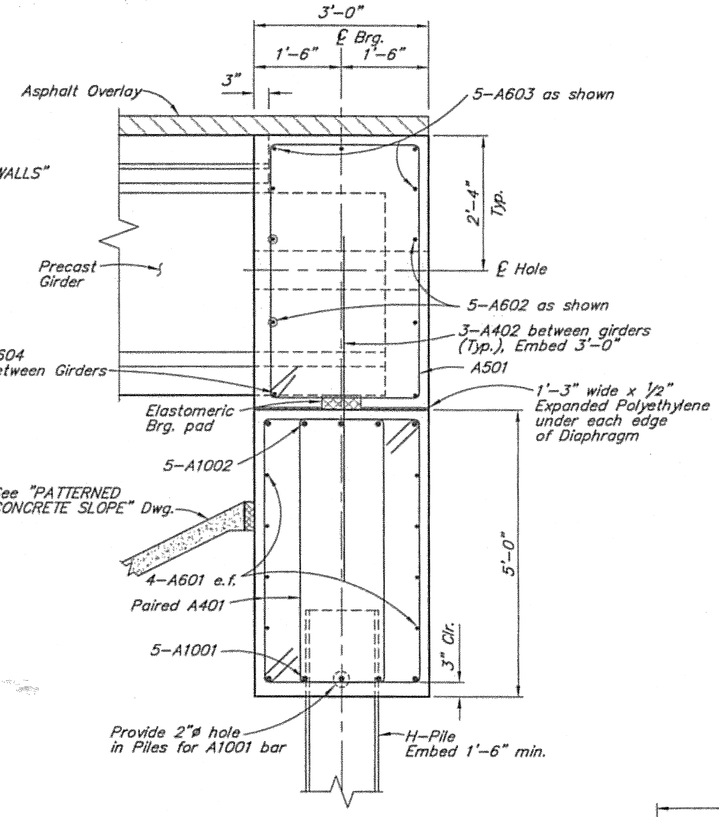
PLAN



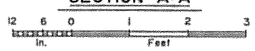


ELEVATION

(Looking ahead on station)

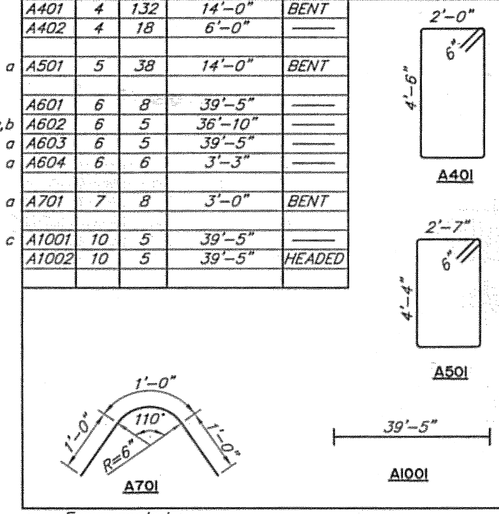


SECTION A-A

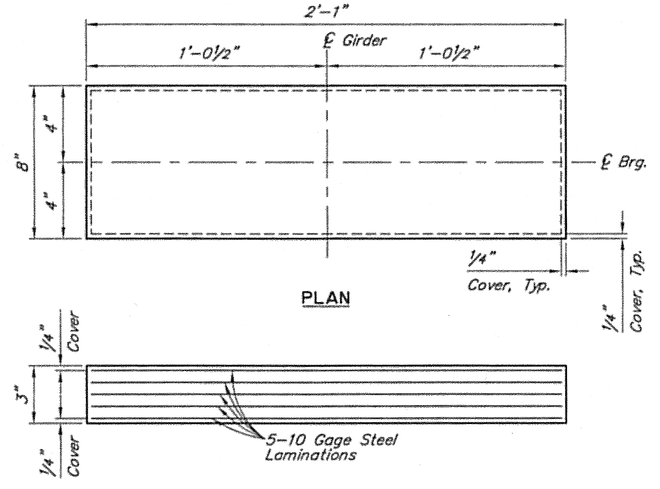


REINFORCING STEEL-ONE ABUTMENT

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
	A401	4	132	14'-0"	BENT	
	A402	4	18	6'-0"	——	
a	A501	5	38	14'-0"	BENT	
	A601	6	8	39'-5"	——	
a,b	A602	6	5	36'-10"	——	
a	A603	6	5	39'-5"	——	
a	A604	6	6	3'-3"	——	
a	A701	7	8	3'-0"	BENT	
c	A1001	10	5	39'-5"	——	
	A1002	10	5	39'-5"	HEADED	



a – Epoxy coated
b – Field adjust
c – Headed bar to conform to ASTM A970.



ELEVATION

ELASTOMERIC BEARING PAD

(50 Durometer, Grade 5)
Dead Load = 99 k
Live Load = 72 k



DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

EGAN DRIVE

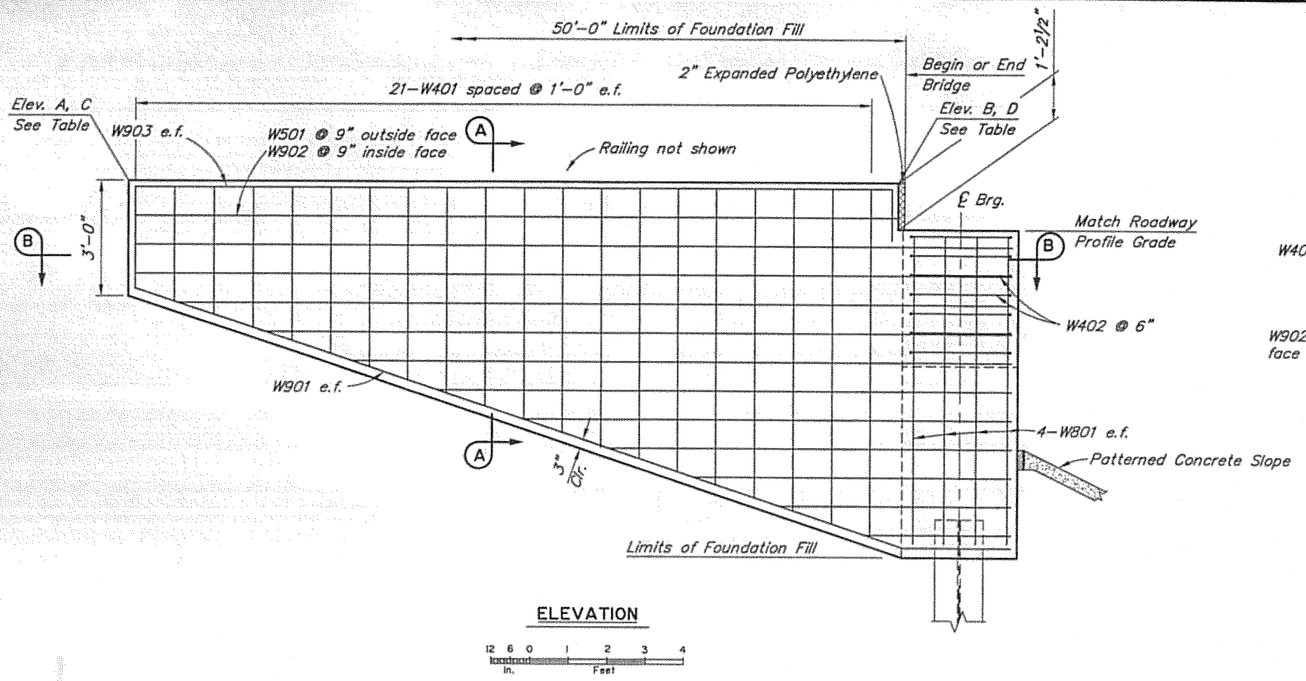
ABUTMENT 2

BRIDGE NO. 2193

DWG NO. 4

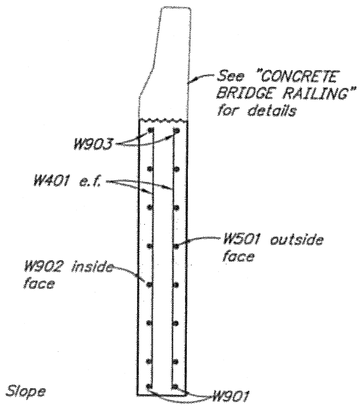
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N14	269



ELEVATION

12 6 0 1 2 3 4 In. Feet



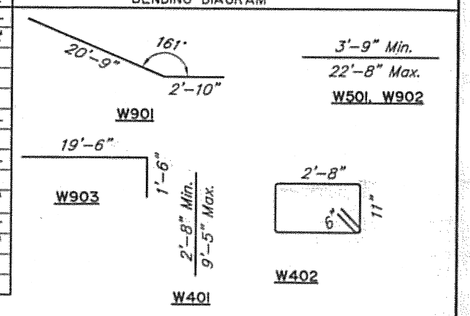
SECTION A-A

12 6 0 1 2 3 4 In. Feet

REINFORCING STEEL - ONE ABUTMENT

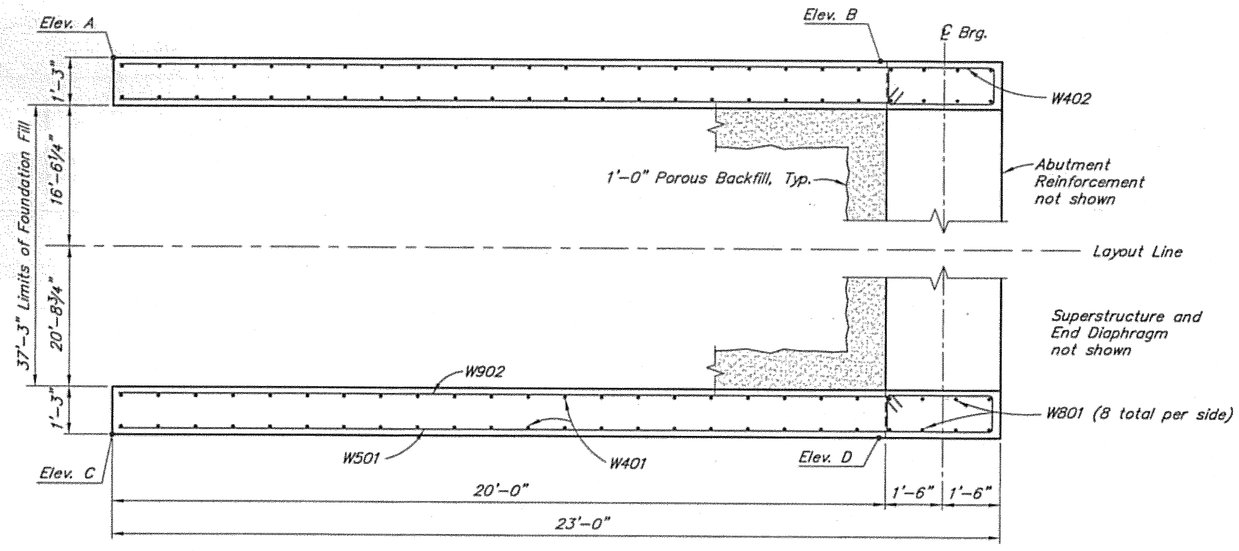
MARK	SIZE	NO.	LENGTH	TYPE
W401	4	84	Varies	——
W402	4	16	8'-2"	Bent
W501	5	24	Varies	——
W801	8	16	8'-0"	——
W901	9	4	23'-7"	Bent
W902	9	24	Varies	——
W903	9	4	21'-0"	Bent

BENDING DIAGRAM



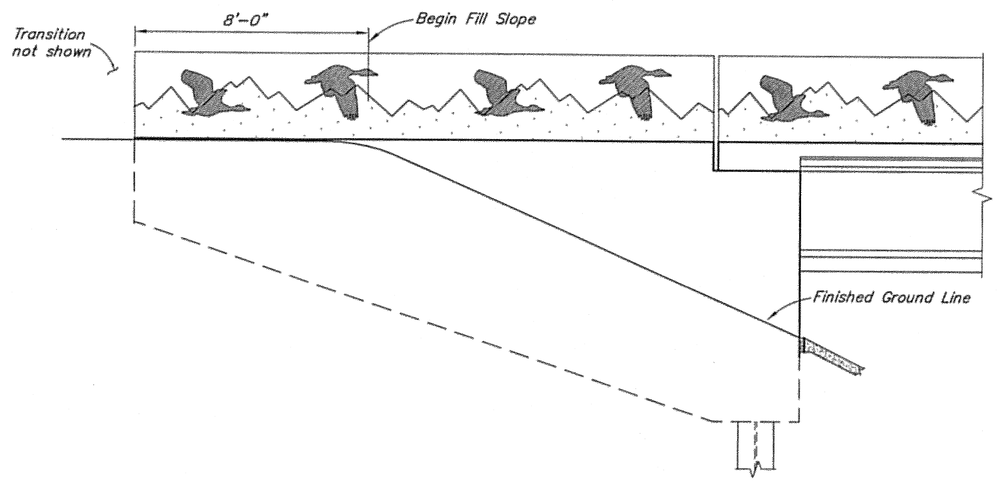
TOP OF WALL ELEVATION TABLE (FT)

LOCATION	A LEFT	B LEFT	C RIGHT	D RIGHT
ABUTMENT 1	48.86	49.16	50.96	51.25
ABUTMENT 2	51.05	50.80	53.12	52.87



SECTION B-B

12 6 0 1 2 3 4 In. Feet



FINISHED ELEVATION

12 0 1 2 3 4 In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

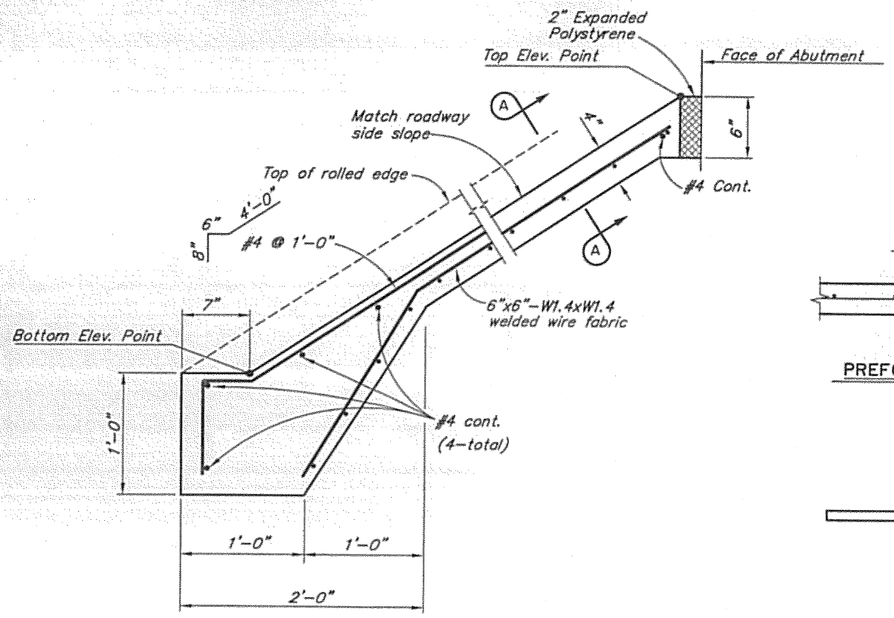
EGAN DRIVE

WINGWALLS

BRIDGE NO. 2193

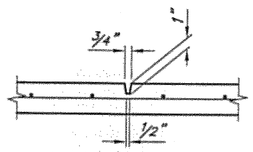
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N19	269

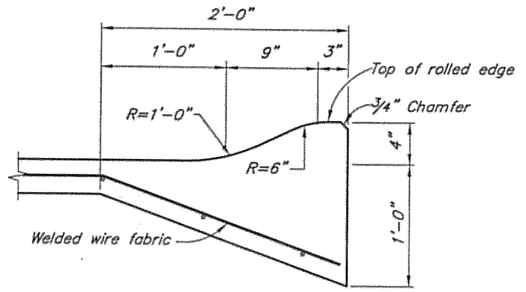


TYPICAL SECTION

12 6 0 1 2 In. Feet

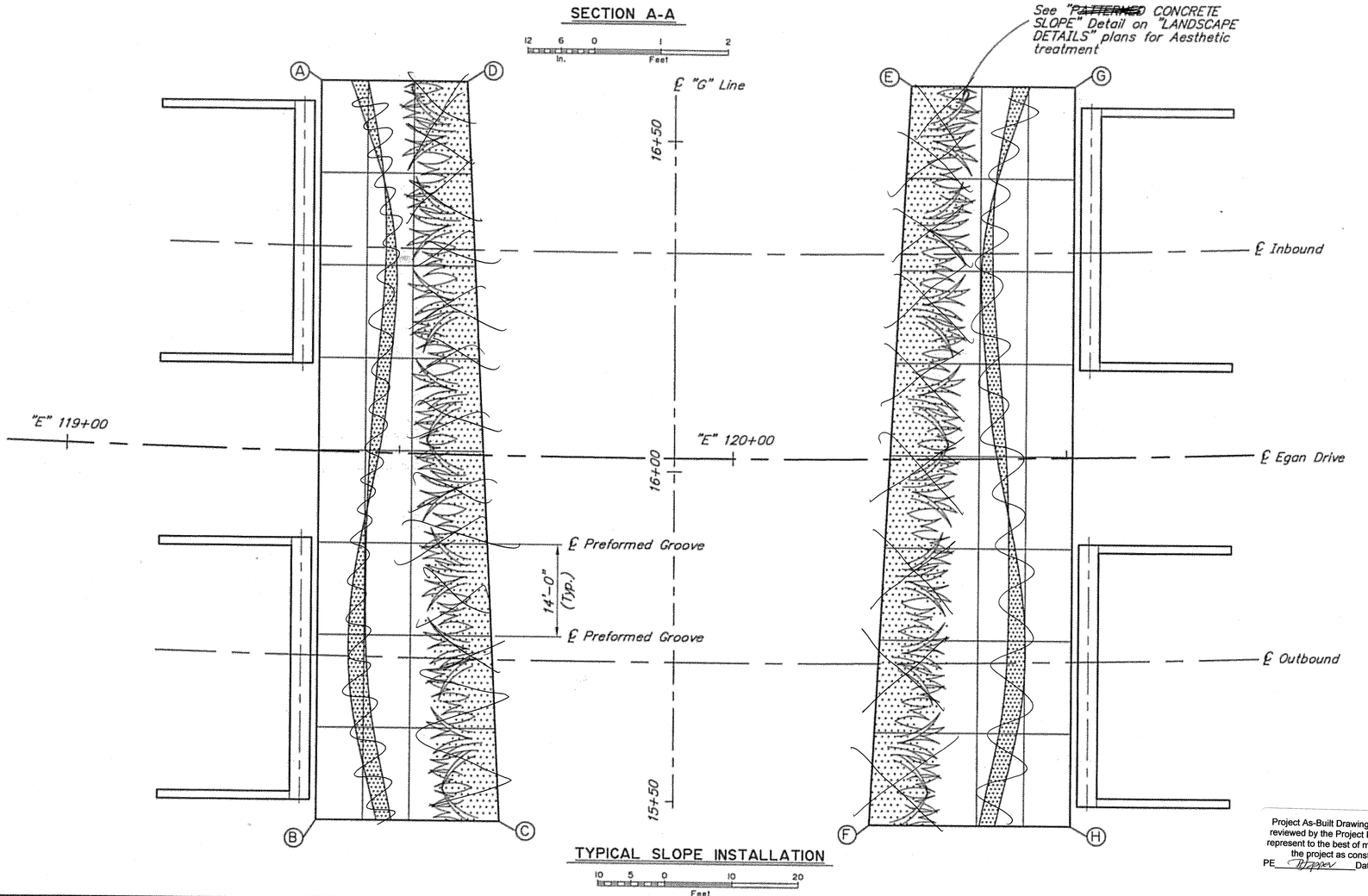


PREFORMED GROOVE



SECTION A-A

12 6 0 1 2 In. Feet



TYPICAL SLOPE INSTALLATION

10 5 0 10 20 Feet

SLOPE POINTS			
POINT	℄ "E" STA.	OFFSET*	ELEV. ft.
A	119+36.71	56.13 Lt.	40.55
B	119+39.01	55.84 Rt.	44.80
C	119+66.03	55.43 Rt.	26.50
D	119+59.12	56.38 Lt.	25.85
E	120+27.22	56.52 Lt.	25.85
F	120+20.48	55.41 Rt.	26.50
G	120+52.08	56.11 Lt.	42.25
H	120+49.77	55.85 Rt.	46.45

* Offsets taken at 90° angle from ℄ "E" Line

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Wapper Date 10/4/16

DESIGNED BY: Elmer Marx	Elmer Marx	CHECKED: Keith Carlson	Keith C. Carlson
DRAWN BY: Sam Sollie	Sam Sollie Jr	CHECKED: Elmer Marx	Elmer Marx
QUANTITIES BY: Elmer Marx	Elmer Marx	CHECKED: Keith Carlson	Keith C. Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

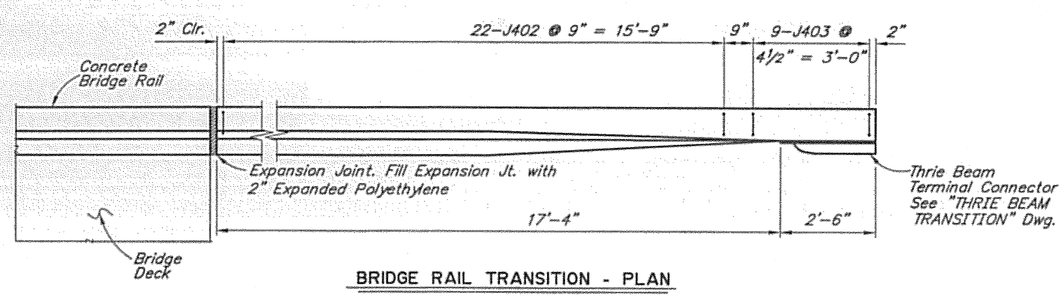
WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

EGAN DRIVE

PATTERNED CONCRETE SLOPE

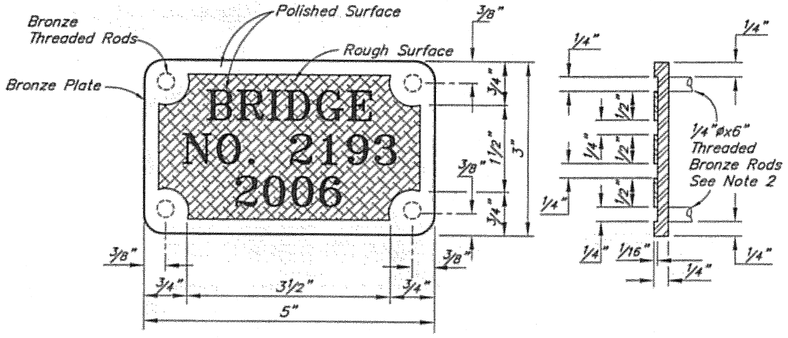
BRIDGE NO. 2193

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	NI7	269



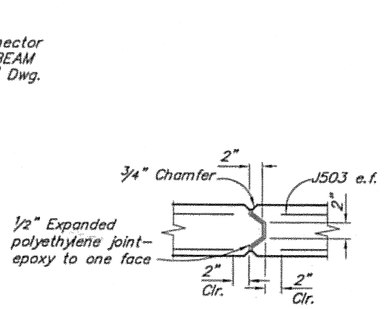
BRIDGE RAIL TRANSITION - PLAN

12 6 0 1 2 3 4 In. Feet



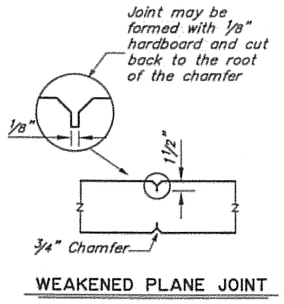
BRONZE BRIDGE NO. PLATE

No Scale



MIDSPAN EXPANSION JOINT

Locate at Midspan
No Scale

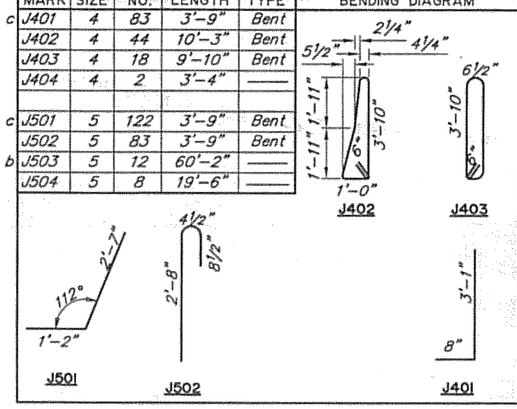


WEAKENED PLANE JOINT

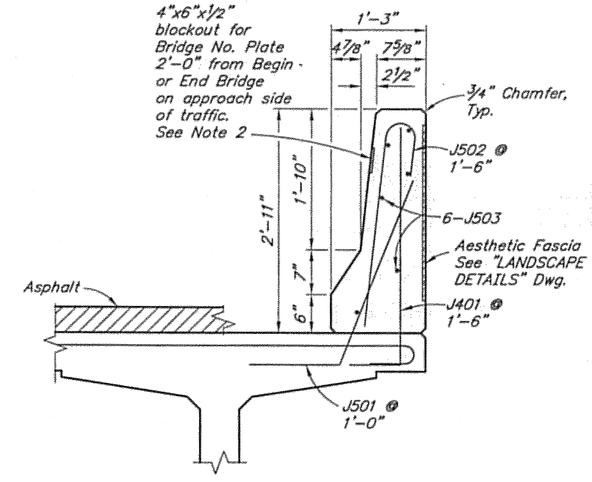
Locate at ¼ Span
No Scale

a- REINFORCING STEEL-ONE RAIL

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
c	J401	4	83	3'-9"	Bent	
	J402	4	44	10'-3"	Bent	
	J403	4	18	9'-10"	Bent	
	J404	4	2	3'-4"	——	
c	J501	5	122	3'-9"	Bent	
	J502	5	83	3'-9"	Bent	
b	J503	5	12	60'-2"	——	
	J504	5	8	19'-6"	——	

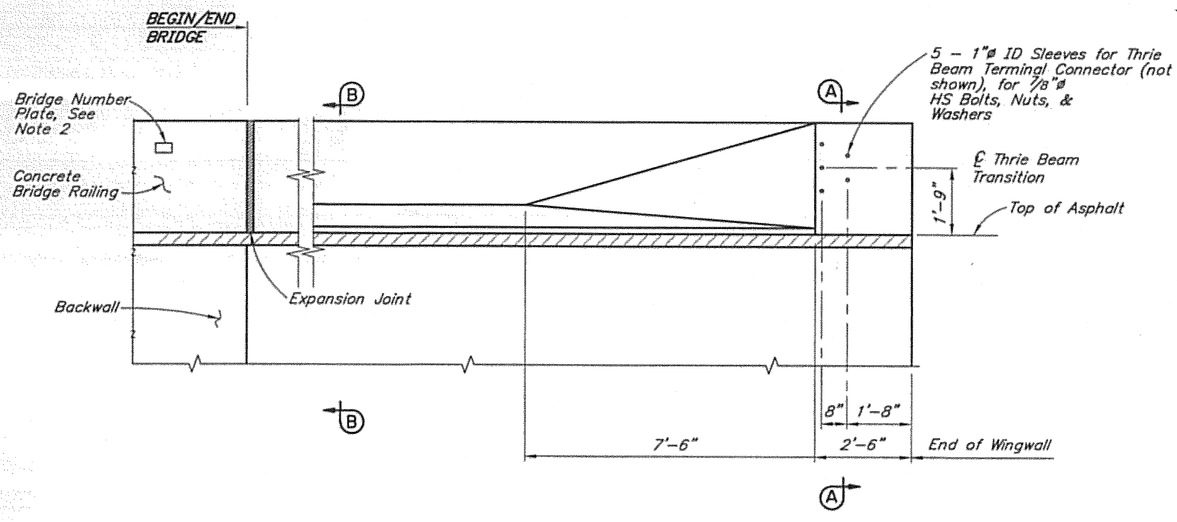


a – Epoxy coat all reinforcing steel.
b – Length does not include Lap Splices. Minimum Lap Splice length for No. 5 Bar = 3'-0".
c – Ship 6 loose.



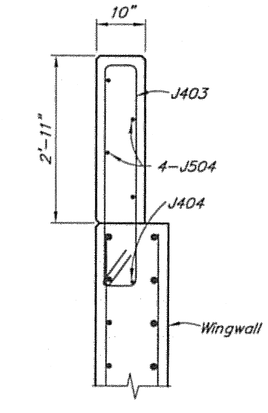
BRIDGE RAIL

12 6 0 1 2 In. Feet



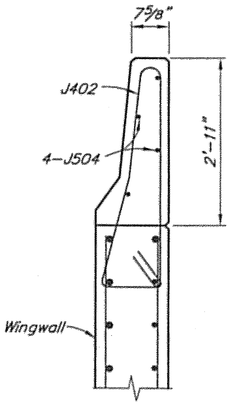
BRIDGE RAIL TRANSITION - ELEVATION

12 6 0 1 2 3 4 In. Feet



SECTION A-A

12 6 0 1 2 3 In. Feet



SECTION B-B

12 6 0 1 2 3 In. Feet

NOTES

1. Construct bridge rail plumb.
2. Furnish and install two bronze bridge number plates conforming to A.S.T.M. B98-90 Alloy "A" or "B". Use "CENTURY" type style. Studs to be ¼"ø bronze threaded rods brazed to back of plate. Epoxy bond rods into ⅞"ø holes in concrete bridge rail blockout Use epoxy suitable for exterior application and compatible with materials to be bonded. Follow epoxy manufacturer's instructions.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
7-14-06

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

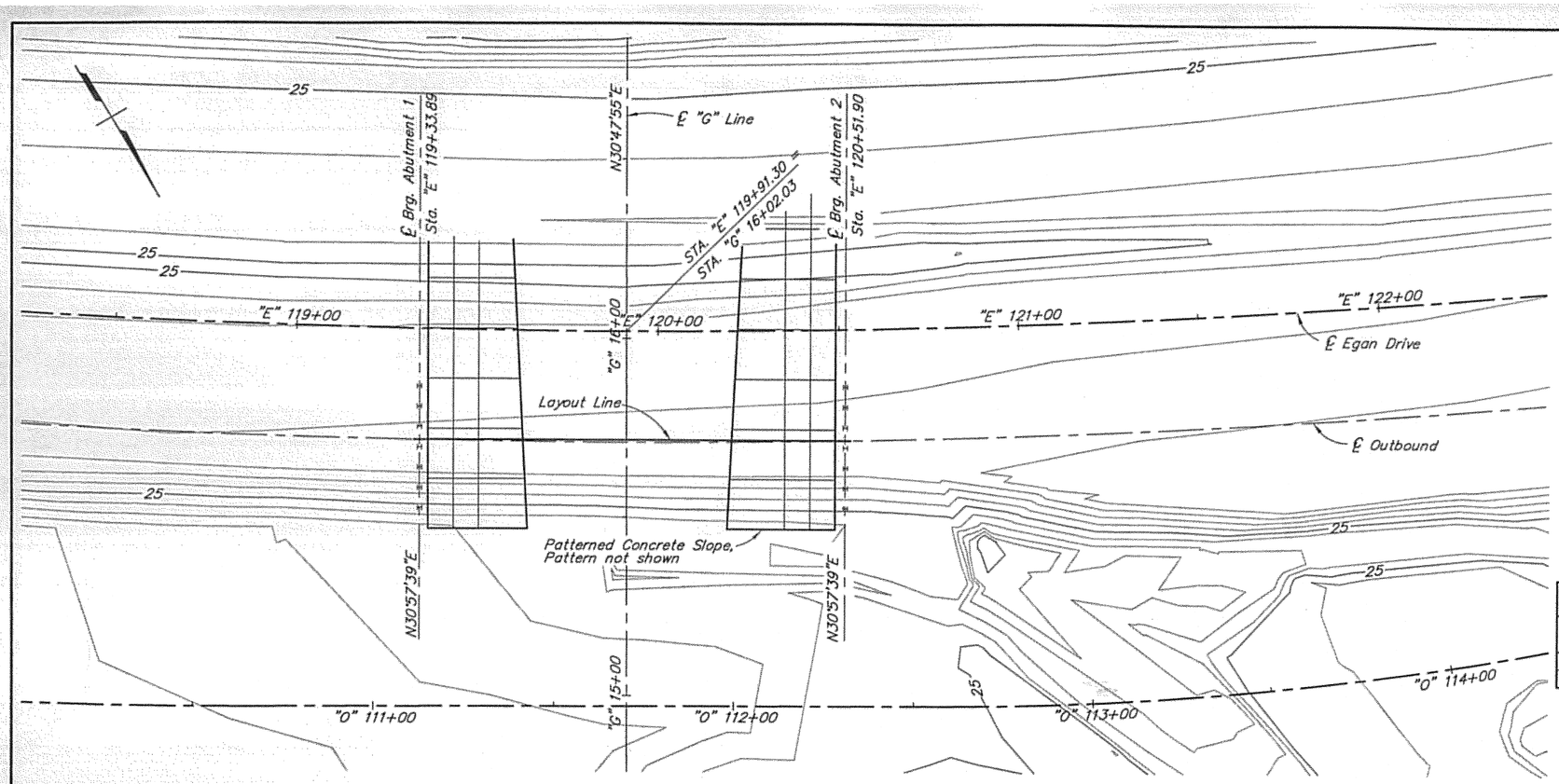
EGAN DRIVE

CONCRETE BRIDGE RAILING

BRIDGE NO. 2193

DWG. NO. 8

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	NII	269



SITE PLAN

10 0 20 40
Feet

GENERAL NOTES

DESIGN: .....AASHTO LRFD Bridge Design Specifications, Third Edition, 2004, with latest interim specifications.

LIVE LOAD:.....HL-93

DEAD LOAD:.....Includes 50 psf for all wearing surfacing.

SEISMIC PARAMETERS:.....Acceleration Coefficient, a = 0.15
Site Coefficient, s = 1.5
Liquefaction Potential = High
AASHTO 90% probability of not being exceeded in 50 years.

REINFORCEMENT:.....ASTM A706, Fy = 60,000 psi
Space reinforcement evenly unless otherwise noted.
ASTM A970 for all headed bars.

PRESTRESSED CONCRETE:.....See "GIRDERS" Dwg.

CONCRETE:.....Use Class A Concrete concrete unless otherwise noted, f'c = 4000 psi

STRUCTURAL STEEL:.....ASTM A709, Grade 36. Fy = 36,000 psi. Unless otherwise noted.

PILING:.....ASTM A709, Grade 50, Fy = 50,000 psi.
Pile tip reinforcing is required.

PILE DATA TABLE

LOCATION	PILE TYPE	MINIMUM TIP ELEVATION	ESTIMATED TIP ELEVATION	ULTIMATE CAPACITY	DESIGN LOAD
Abutment 1	HP14x117	-10.0 ft.	-57.0 ft.	480 k	206 k
Abutment 2	HP14x117	-10.0 ft.	-57.0 ft.	480 k	206 k

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
205(3)	Foundation Fill	CY	CY	1250	———	1250
501(1)	Class A Concrete	LS	CY	67.8	39.7	107.5
501(7A)	Precast Concrete Member (119'x54" Girder)	EA	EA	———	7	7
503(1)	Reinforcing Steel	LS	LBS	12,810	———	12,810
503(2)	Epoxy-Coated Reinforcing Steel	LS	LBS	2445	520	2965
505(5)	Furnish Structural Steel Piles	LF	LF	1396.4	———	1396.4
505(6)	Drive Structural Steel Piles	EA	EA	14	———	14
507(4)	Concrete Bridge Railing	LF	LF	———	322.0	322.0
508(1)	Waterproofing Membrane	LS	SF	———	4507	4507
606(12)	Guardrail / Bridge Rail Connection	EA	EA	———	4	4
608(7)	Patterned Concrete Slope	SF	SF	7125	———	7125

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ABBREVIATIONS

℄	= Centerline	Hwy.	= Highway
ℙ	= Plate	k	= thousand pounds
&	= and	Lbs.	= pounds
@	= at	LS	= lump sum
ø	= diameter	max.	= maximum
Approx.	= approximate	min.	= minimum
Abut.	= Abutment	n.a.	= not applicable
bot.	= bottom	n.c.	= not calculated
Br.	= Bridge	n.f.	= near face
btwn.	= between	No.	= number
Brg.	= Bearings	o.c.	= on center
C.I.P.	= Cast-in-Place	O.H.W.	= Ordinary High Water
Clr.	= Clear, Clearance	psi	= pounds per square inch
col.	= column	Req'd	= required
dia.	= diameter	R/W	= right of way
D.H.W.	= Design High Water	spc.	= space, spaces
Dwg.	= drawing	Sta.	= station
(E)	= existing	Subst.	= substructure
Ea.	= each	Superst.	= superstructure
Elev.	= elevation	Symm.	= symmetric
e.f.	= each face	SY	= square yard
f.f.	= far face	Typ.	= typical
Grd.	= girder	UT	= utrasonic testing

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	HYDRAULICS BY:	CHECKED BY:
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	FOUNDATIONS REVIEWED BY: Bruce Brunette	
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
11-4-16

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

EGAN DRIVE

SITE PLAN

BRIDGE NO. 2193

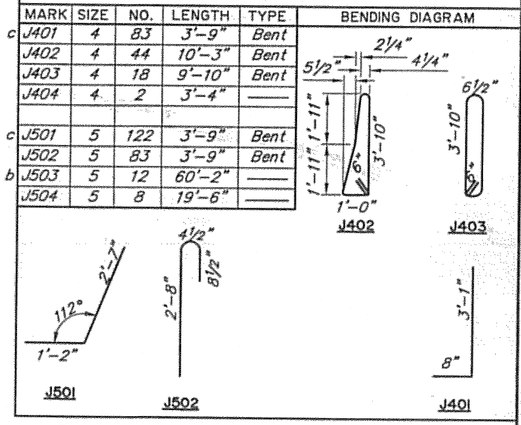
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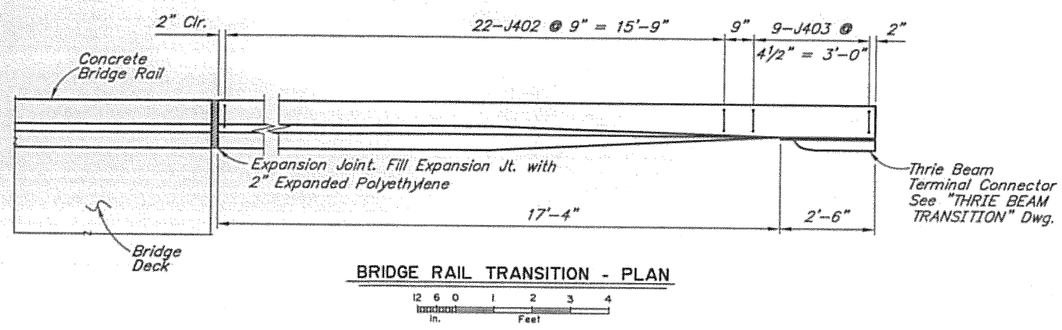
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N8	269

a- REINFORCING STEEL-ONE RAIL

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
c	J401	4	83	3'-9"	Bent	
	J402	4	44	10'-3"	Bent	
	J403	4	18	9'-10"	Bent	
	J404	4	2	3'-4"	——	
c	J501	5	122	3'-9"	Bent	
	J502	5	83	3'-9"	Bent	
b	J503	5	12	60'-2"	——	
	J504	5	8	19'-6"	——	

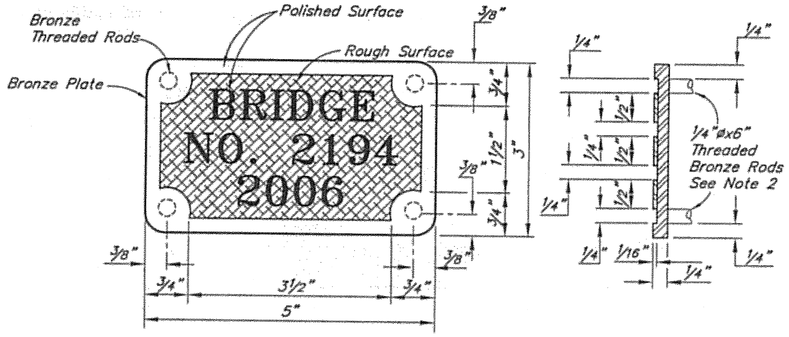


a – Epoxy coat all reinforcing steel.
b – Length does not include Lap Splices. Minimum Lap Splice length for No. 5 Bar = 3'-0".
c – Ship 6 loose.



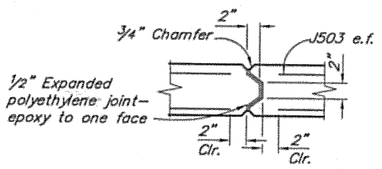
BRIDGE RAIL TRANSITION - PLAN

12 6 0 1 2 3 4 in. Feet



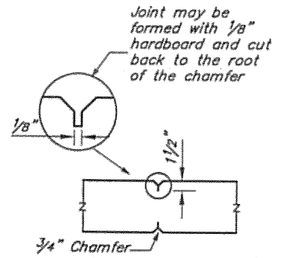
BRONZE BRIDGE NO. PLATE

No Scale



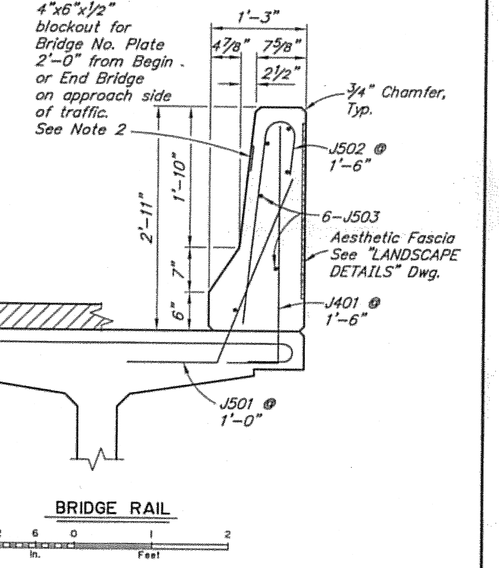
MIDSPAN EXPANSION JOINT

Locate at Midspan
No Scale



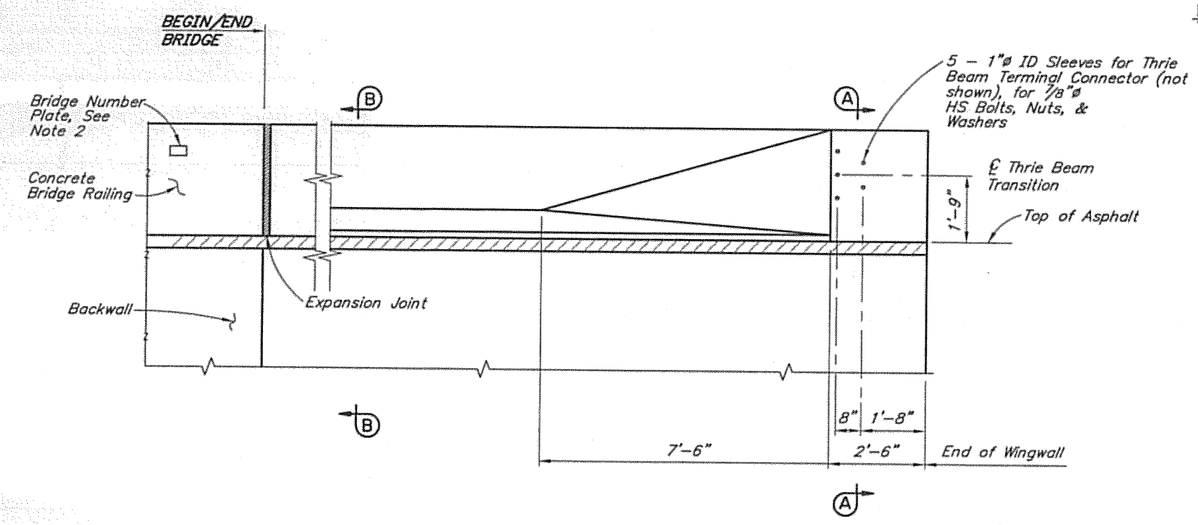
WEAKENED PLANE JOINT

Locate at ¼ Span
No Scale



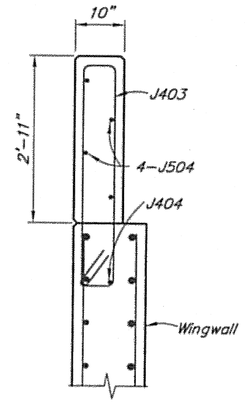
BRIDGE RAIL

12 6 0 1 2 In. Feet



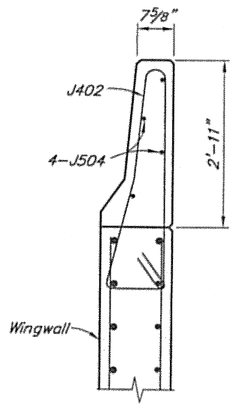
BRIDGE RAIL TRANSITION - ELEVATION

12 6 0 1 2 3 4 In. Feet



SECTION A-A

12 6 0 1 2 3 In. Feet



SECTION B-B

12 6 0 1 2 3 In. Feet

NOTES

1. Construct bridge rail plumb.
2. Furnish and install two bronze bridge number plates conforming to A.S.T.M. B98-90 Alloy "A" or "B". Use "CENTURY" type style. Studs to be ¼"ø bronze threaded rods brazed to back of plate. Epoxy bond rods into ⅜"ø holes in concrete bridge rail blockout. Use epoxy suitable for exterior application and compatible with materials to be bonded. Follow epoxy manufacturer's instructions.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson		
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx		
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH Elmer E. Marx III No. CE 9490 REGISTERED PROFESSIONAL ENGINEER 11-14-06

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

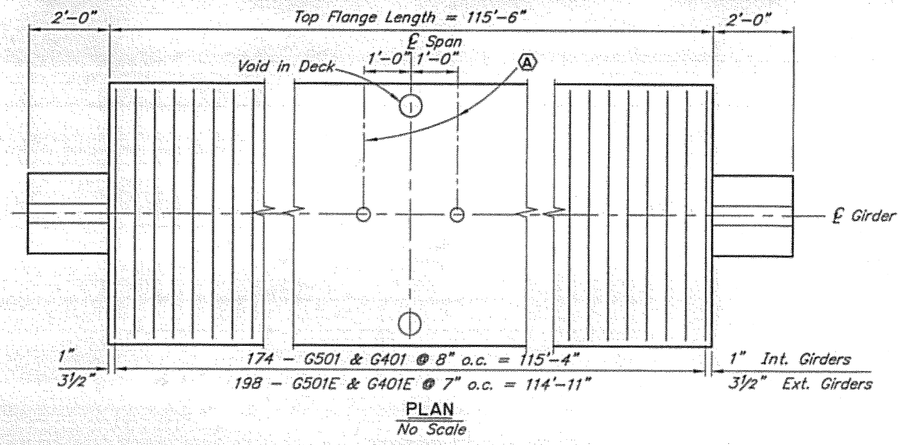
EGAN DRIVE

CONCRETE BRIDGE RAILING

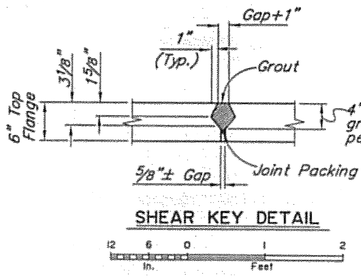
BRIDGE NO. 2194

DWG. NO. 8

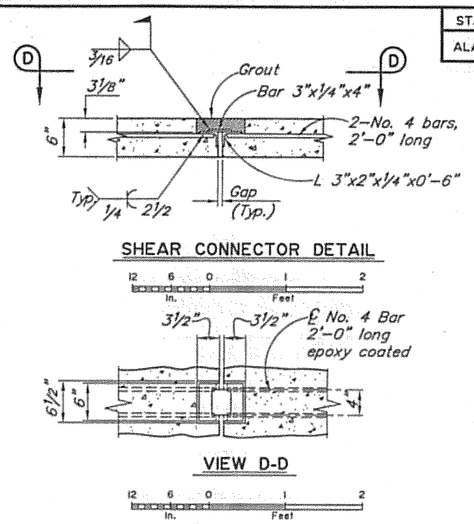
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N7	269



PLAN
No Scale

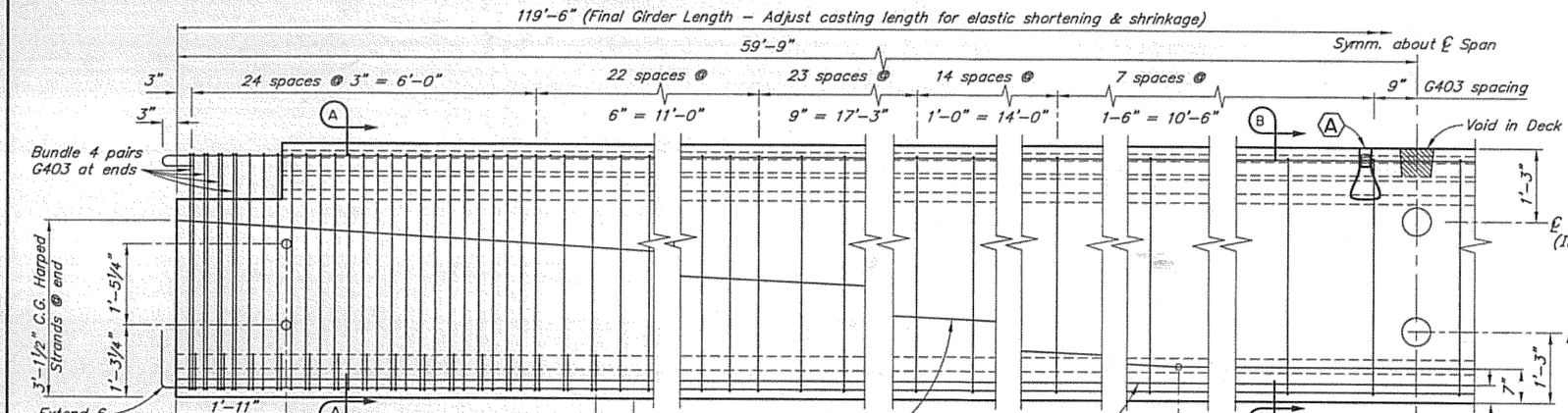


SHEAR KEY DETAIL

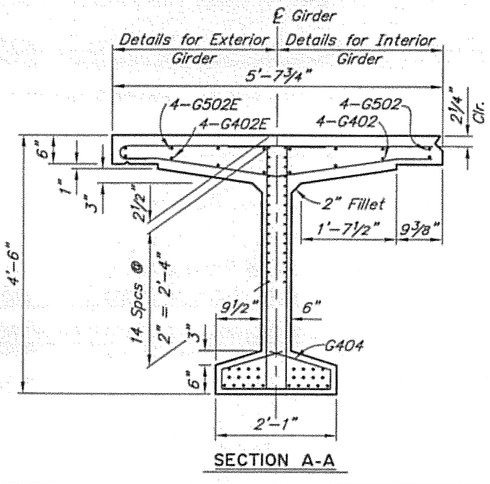


SHEAR CONNECTOR DETAIL

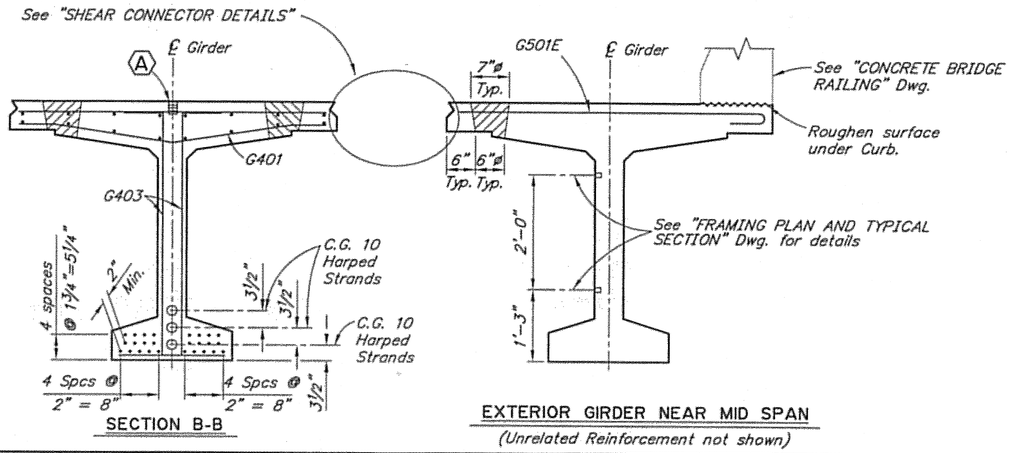
VIEW D-D



ELEVATION



SECTION A-A



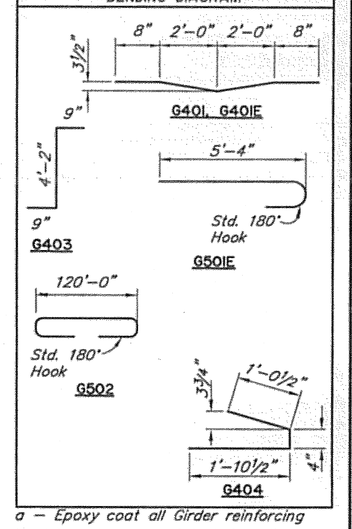
SECTION B-B

EXTERIOR GIRDER NEAR MID SPAN
(Unrelated Reinforcement not shown)

a REINFORCING STEEL SCHEDULE-ONE GIRDER

	MARK	SIZE	NO.	LENGTH	TYPE
	G401	4	174	5'-4½"	Bent
e	G401E	4	198	5'-4½"	Bent
b	G402	4	8	115'-2"	–
b,e	G402E	4	8	115'-2"	–
	G403	4	380	5'-8"	Bent
	G404	4	60	3'-3"	Bent
	G501	5	174	5'-4"	–
e	G501E	5	198	5'-11"	Bent
b	G502	5	8	121'-2"	Bent
b,e	G502E	5	8	121'-2"	Bent

BENDING DIAGRAM



a – Epoxy coat all Girder reinforcing
b – Length does not include splices. Minimum lap splice length for splices shall be: 2'-0" for #4 bars, 2'-6" for #5 bars.
e – Exterior Girder only.

GIRDER NOTES

Use normal weight concrete having the following strengths:
At Stress Transfer f'ci = 6500 psi
At 28 days f'c = 7500 psi

Use ½" round low relaxation strands having an ultimate strength of 270 ksi and a cross section area of 0.153 in.²

Design is based on the following steel stresses:
Pretensioning – Jacking Stress 189 ksi
After initial losses – 170 ksi
After all losses – 141 ksi

1" clear on all reinforcing except as noted.

Deflect forms to compensate for camber and roadway grade.

Provide a magnesium float finish on the roadway surface of the precast member. Roughen the surface under the railing.

Omit Shear Key and Shear Connector on outside of exterior girders.

Cast Girder ends plumb with respect to roadway grade.

(A) 1"x1'-0" Coil Anchor Insert for vertical adjustment of girders. Recess 2". Prevent concrete from filling hole.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

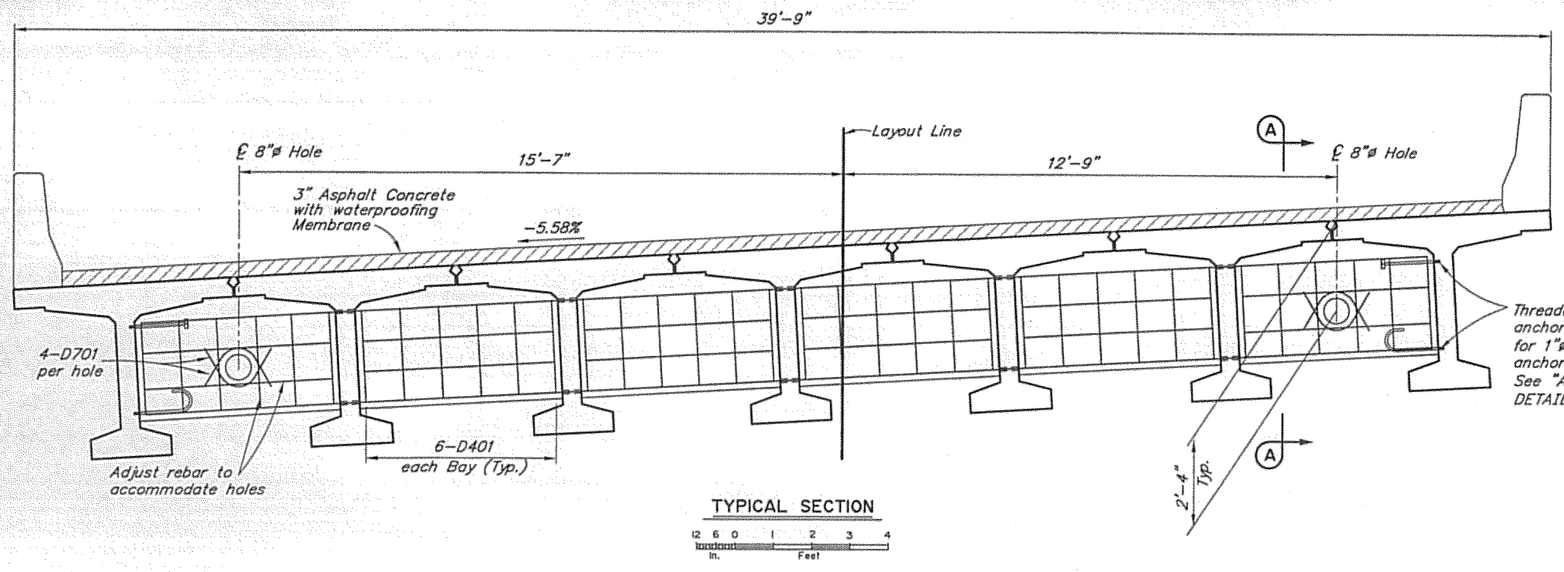
EGAN DRIVE

GIRDERS

BRIDGE NO. 2194
DWG. NO. 7

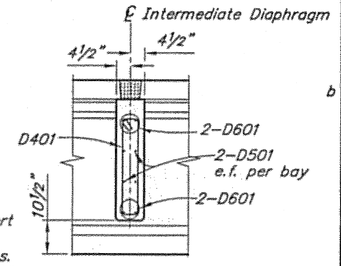
LAST PLOTTED: 10/27/2006 11:47:47
PLOTTED BY: Elmer Marx
DRAWING NAME: C:\Projects\Lemon Valley\Girders.dgn

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N6	269



TYPICAL SECTION

12 6 0 1 2 3 4
In. Feet

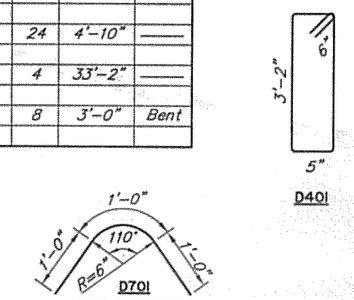


SECTION A-A

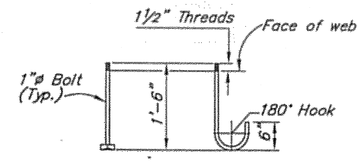
12 6 0 1 2 3 4
In. Feet

REINFORCING STEEL-INTER. DIAPHRAGM

MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
D401	4	36	6'-4"	Bent	
D501	5	24	4'-10"	——	
b D601	6	4	33'-2"	——	
D701	7	8	3'-0"	Bent	



a – Epoxy coated.
b – Minimum lap splice length 3'-3".

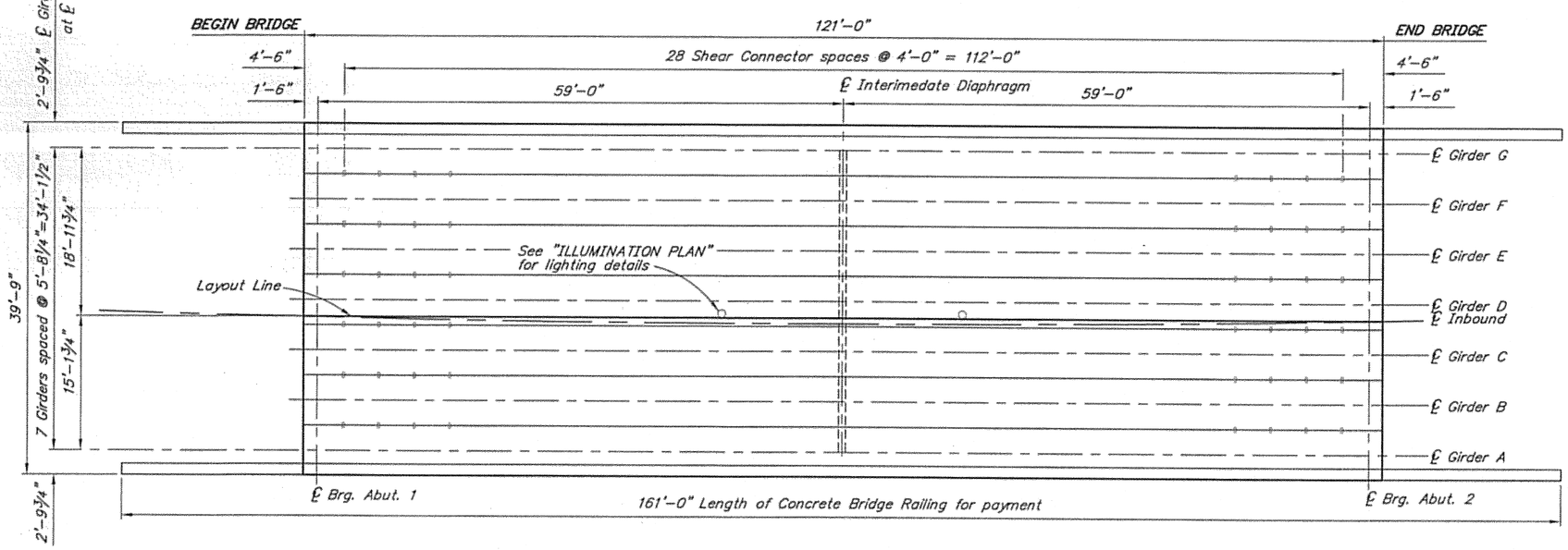


TOP ANCHOR BOTTOM ANCHOR

ASTM A307 GALVANIZED

ANCHOR DETAIL

12 6 0 1 2 3
In. Feet



FRAMING PLAN

12 0 4 8 12
In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

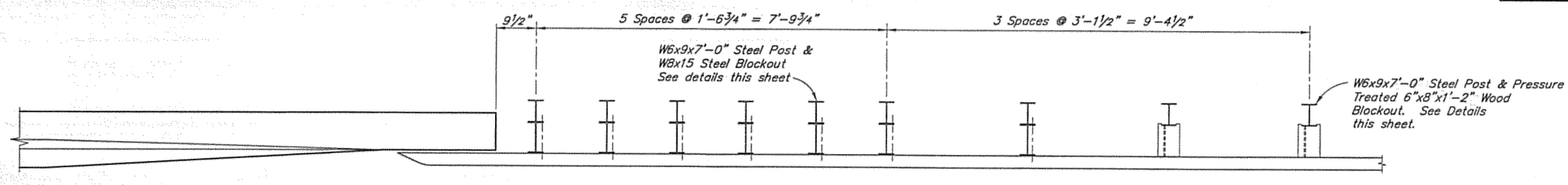
EGAN DRIVE

FRAMING PLAN AND TYPICAL SECTION

BRIDGE NO. 2194

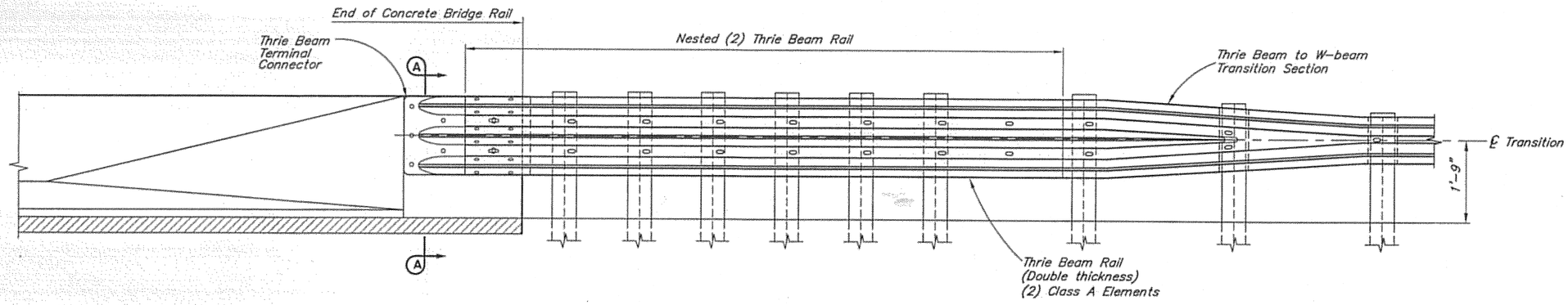
DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N9	269



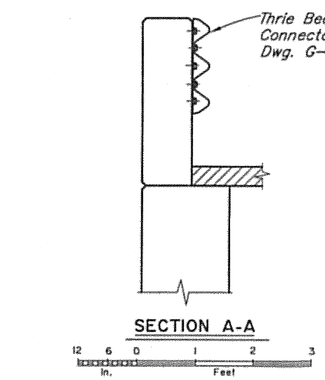
PLAN

12 6 0 1 2 3
In. Feet



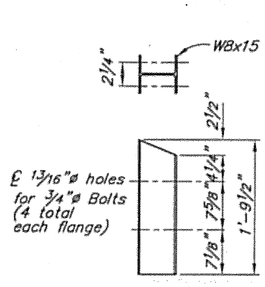
THRIE BEAM TRANSITION - ELEVATION

12 6 0 1 2 3
In. Feet



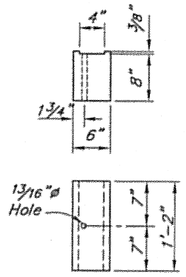
SECTION A-A

12 6 0 1 2 3
In. Feet



THRIE BEAM BLOCKOUT

12 6 0 1 2
In. Feet



WOOD BLOCKOUT

12 6 0 1 2
In. Feet

NOTES:

1. All guardrail and connection hardware to conform to AASHTO M-180.
   All H.S. Bolts conform to ASTM A325.
   All other steel to conform to ASTM A709 Grade 36.
2. Conform to G-00, G-04S, G-09S for all guardrail details not shown.
3. Lap approach guardrail to prevent snags from oncoming traffic.
4. Provide 2" horizontal slot in approach guardrail. Adjust guardrail bolts for sliding fit.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

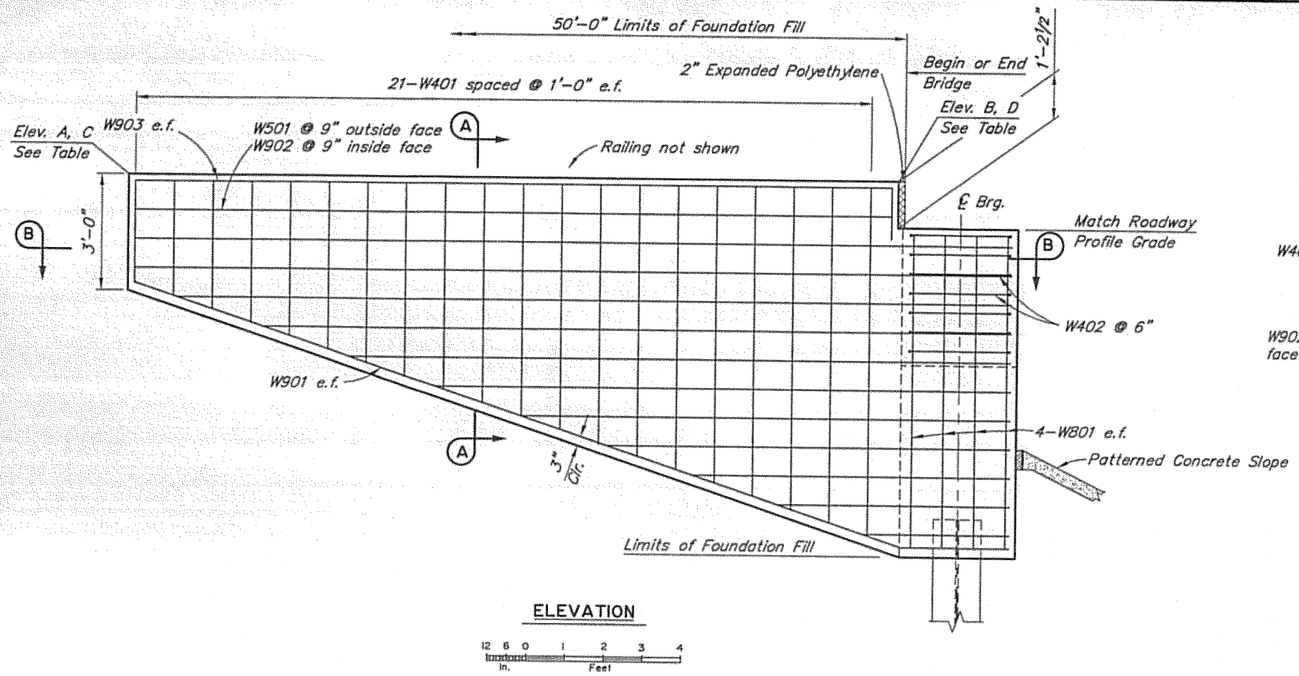
EGAN DRIVE

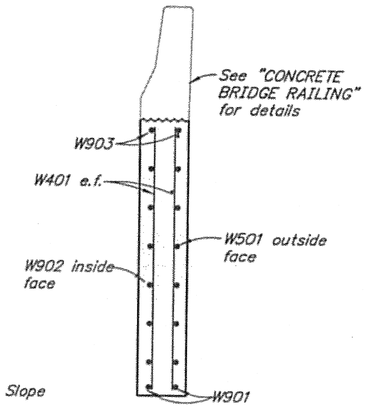
THRIE BEAM TRANSITION

BRIDGE NO. 2194

DWG. NO. 9

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N5	269

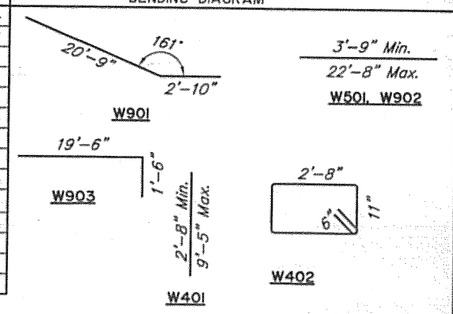




REINFORCING STEEL - ONE ABUTMENT

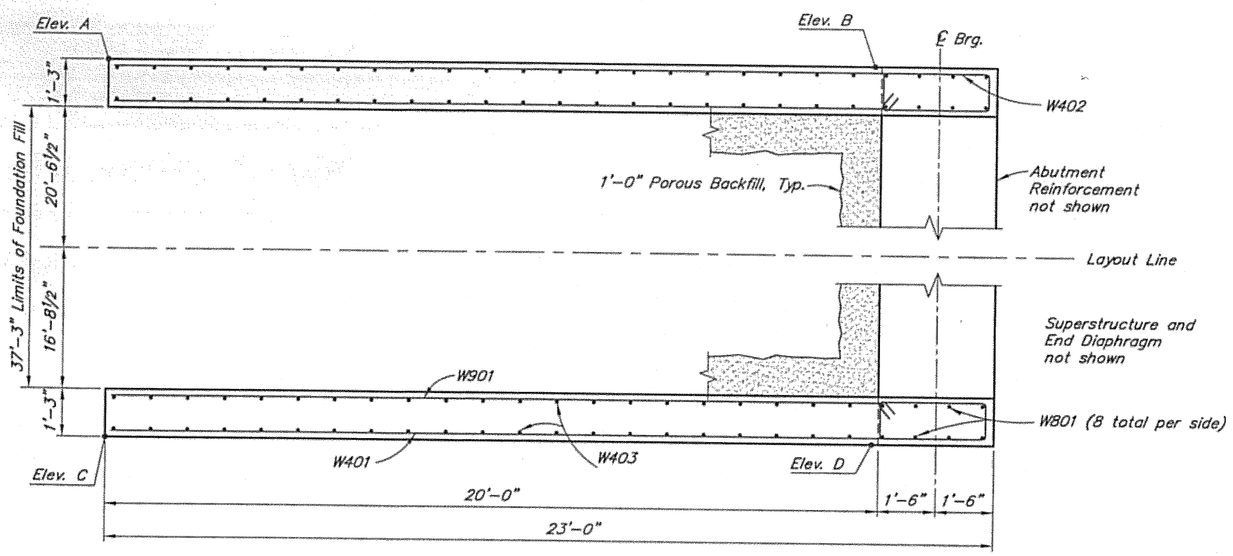
MARK	SIZE	NO.	LENGTH	TYPE
W401	4	84	Varies	——
W402	4	16	8'-2"	Bent
W501	5	24	Varies	——
W801	8	16	8'-0"	——
W901	9	4	23'-7"	Bent
W902	9	24	Varies	——
W903	9	4	21'-0"	Bent

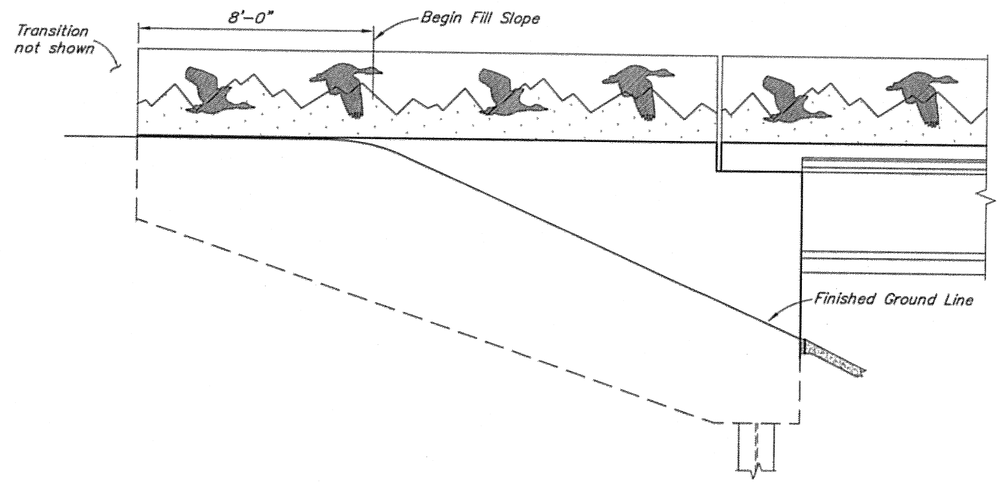
BENDING DIAGRAM



TOP OF WALL ELEVATION TABLE (FT)

LOCATION	A LEFT	B LEFT	C RIGHT	D RIGHT
ABUTMENT 1	46.82	47.13	48.92	49.22
ABUTMENT 2	49.06	48.81	51.13	50.88





DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

EGAN DRIVE

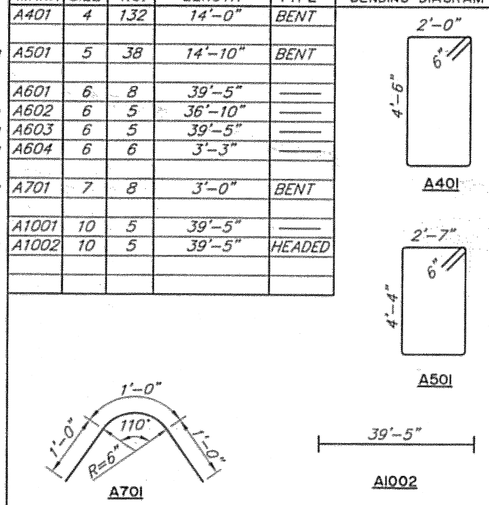
WINGWALLS

BRIDGE NO. 2194
DWG. NO. 5

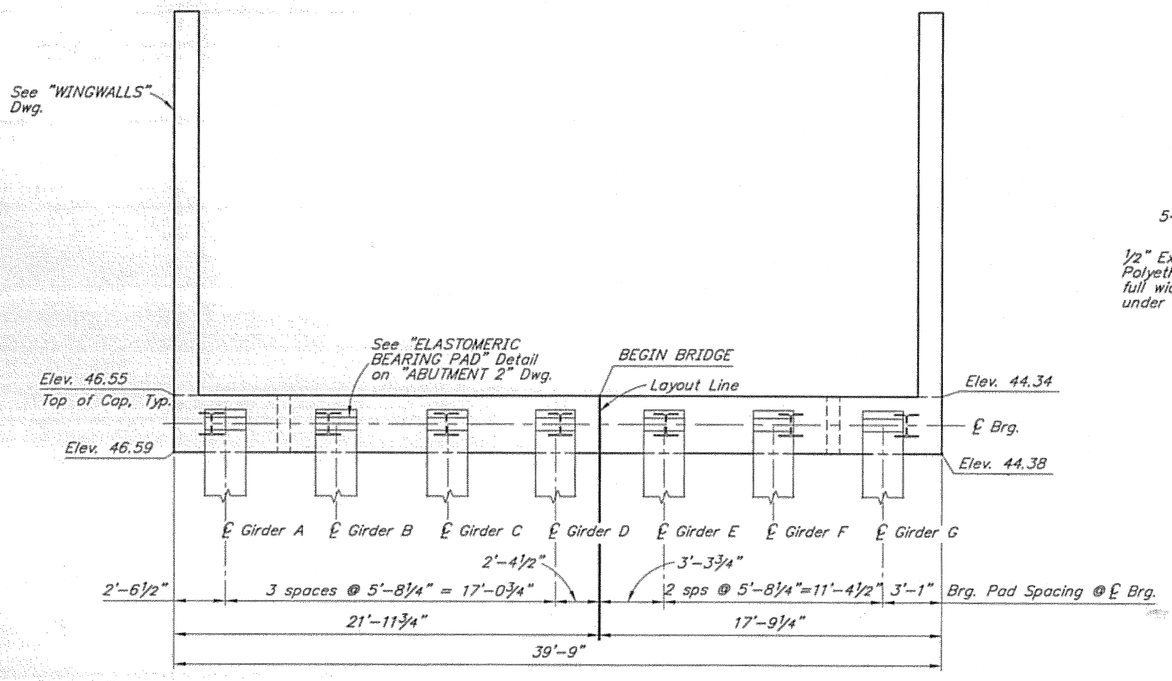
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N12	269

REINFORCING STEEL-ONE ABUTMENT

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
	A401	4	132	14'-0"	BENT	
a	A501	5	38	14'-10"	BENT	
	A601	6	8	39'-5"	——	
a,b	A602	6	5	36'-10"	——	
a	A603	6	5	39'-5"	——	
a	A604	6	6	3'-3"	——	
a	A701	7	8	3'-0"	BENT	
	A1001	10	5	39'-5"	——	
c	A1002	10	5	39'-5"	HEADED	

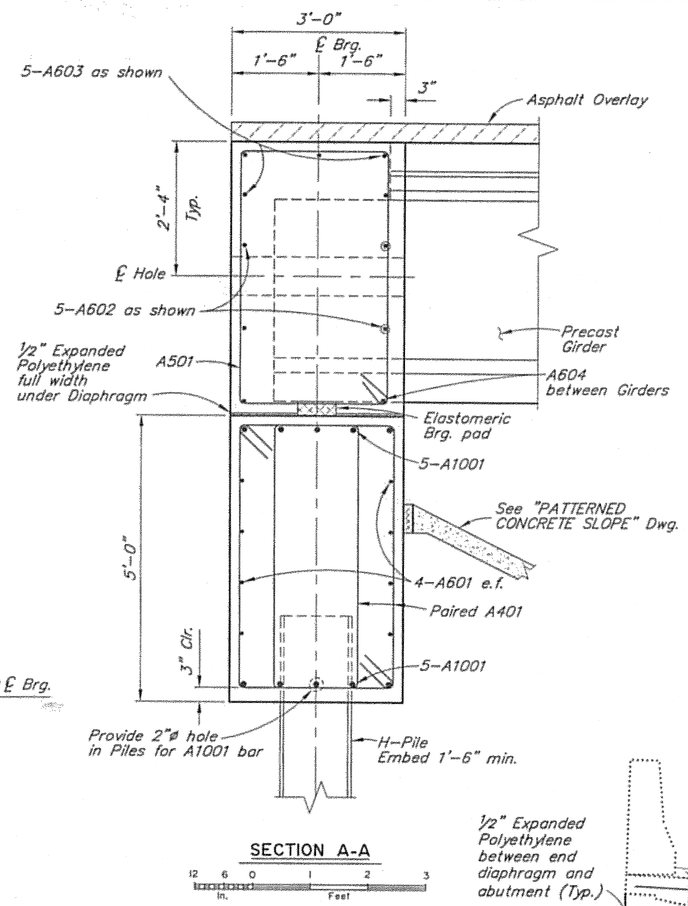


a – Epoxy coated
b – Field adjust
c – Headed bar to conform to ASTM A970.



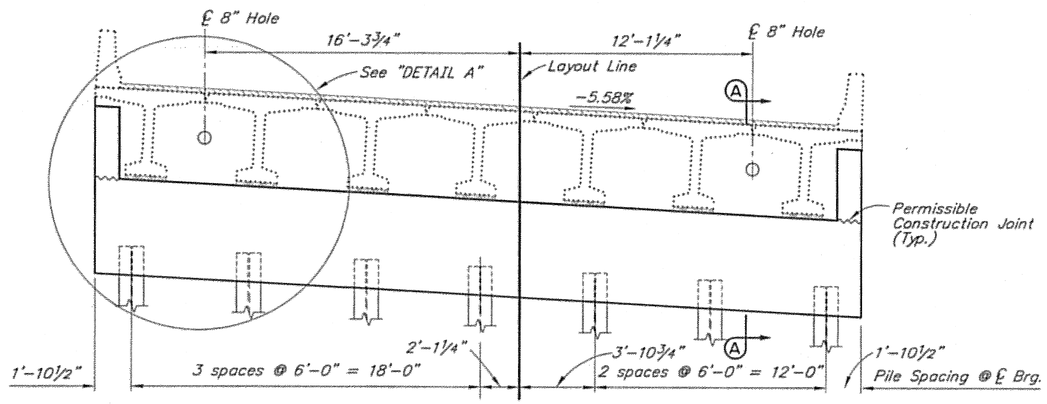
PLAN

12 0 4 8
In. Feet



SECTION A-A

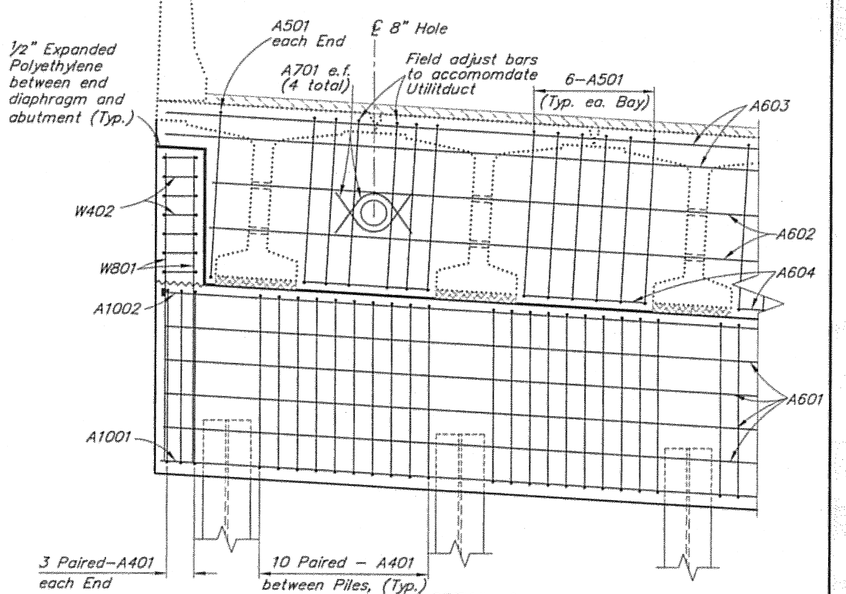
12 6 0 1 2 3
In. Feet



ELEVATION

(Looking back on station)

12 0 4 8
In. Feet



DETAIL A

(Abutment 1 shown Abutment 2 similar)

12 6 0 1 2 3 4
In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

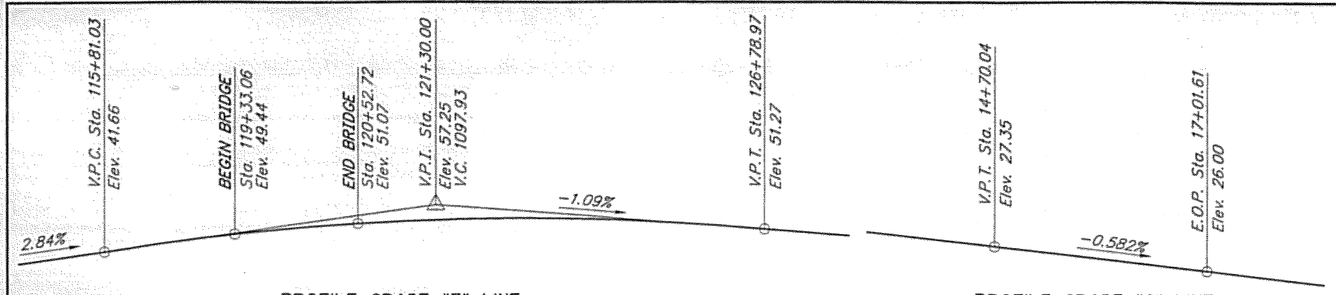
EGAN DRIVE

ABUTMENT 1

BRIDGE NO. 2193

DWG NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N10	269

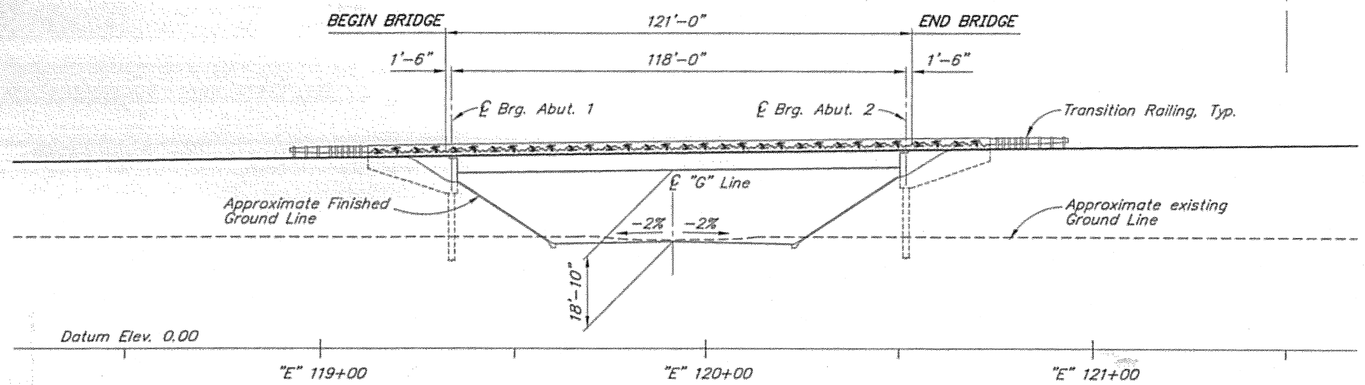


PROFILE GRADE "E" LINE

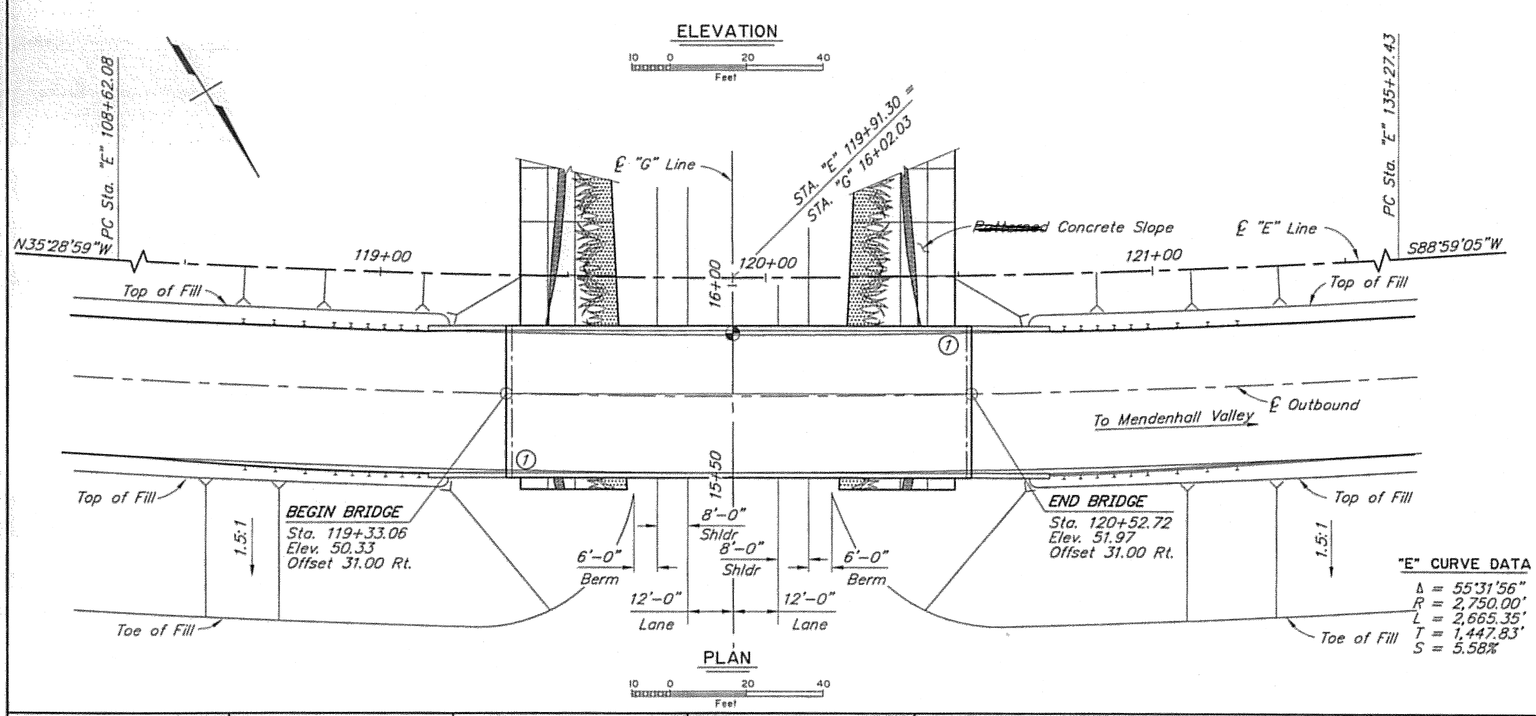
No Scale

PROFILE GRADE "G" LINE

No Scale



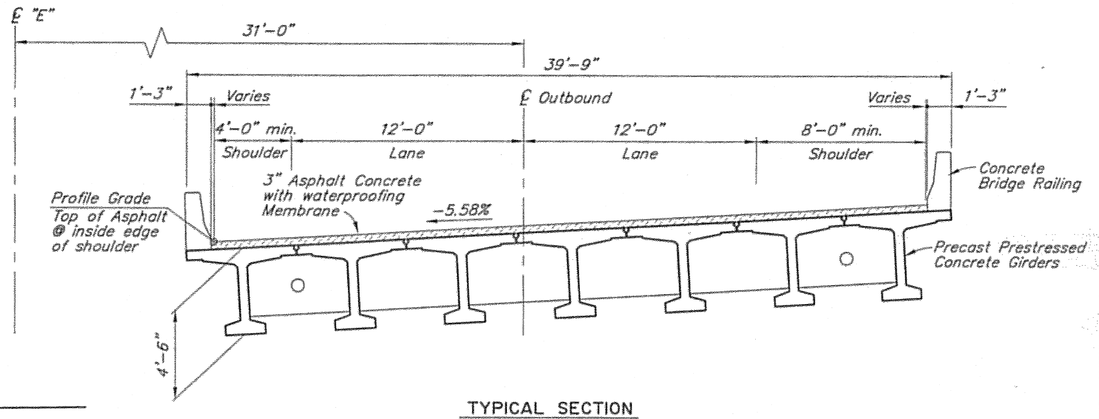
ELEVATION



PLAN

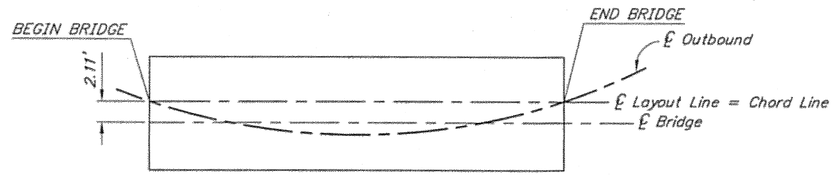
"E" CURVE DATA

Δ = 55°31'56"
R = 2,750.00'
L = 2,665.35'
T = 1,447.83'
S = 5.58%



TYPICAL SECTION

12 0 4 8
In. Feet



LAYOUT LINE

No Scale

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
SITE PLAN	2
ABUTMENT 1	3
ABUTMENT 2	4
WINGWALLS	5
FRAMING PLAN AND TYPICAL SECTION	6
GIRDERS	7
CONCRETE BRIDGE RAILING	8
THRIE BEAM TRANSITION	9
PATTERNED CONCRETE SLOPE	10

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: Date 6/9/06

① Approximate location of Bridge Number Plate.

Point of minimum vertical clearance.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	LAYOUT BY: Elmer Marx	CHECKED BY: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	SPECIFICATIONS BY: Elmer Marx	P S & E COMPARED: Keith Carlson
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson	APPROVAL RECOMMENDED BY: Rich Pratt	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

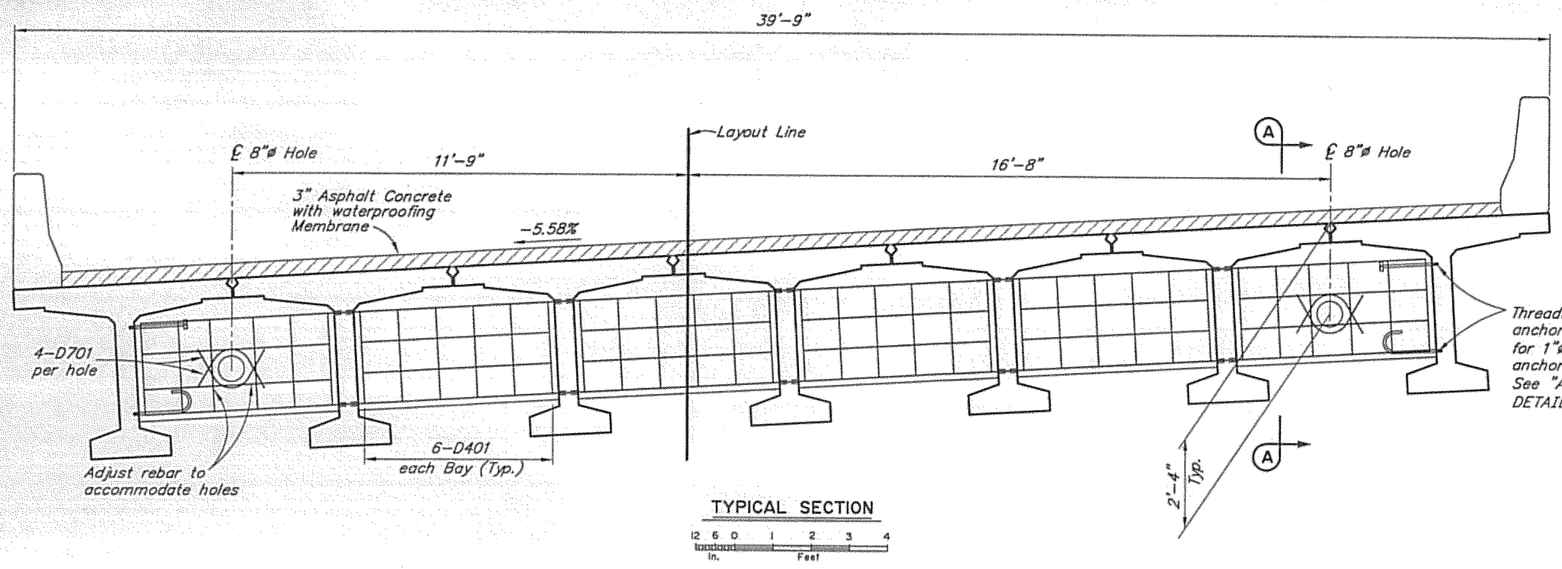
EGAN DRIVE

GENERAL LAYOUT

BRIDGE NO. 2193

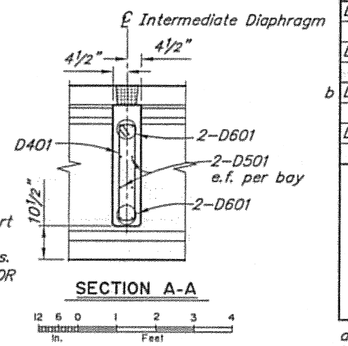
DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N15	269



TYPICAL SECTION

12 6 0 1 2 3 4 In. Feet

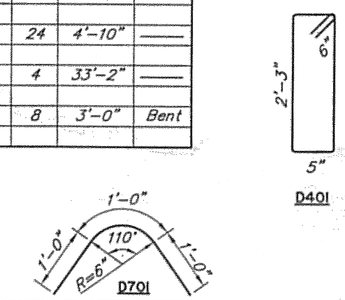


SECTION A-A

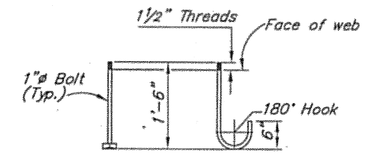
12 6 0 1 2 3 4 In. Feet

REINFORCING STEEL-INTER. DIAPHRAGM

MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
D401	4	36	6'-4"	Bent	
D501	5	24	4'-10"	——	
b D601	6	4	33'-2"	——	
D701	7	8	3'-0"	Bent	



a – Epoxy coated.
b – Minimum lap splice length 3'-3".

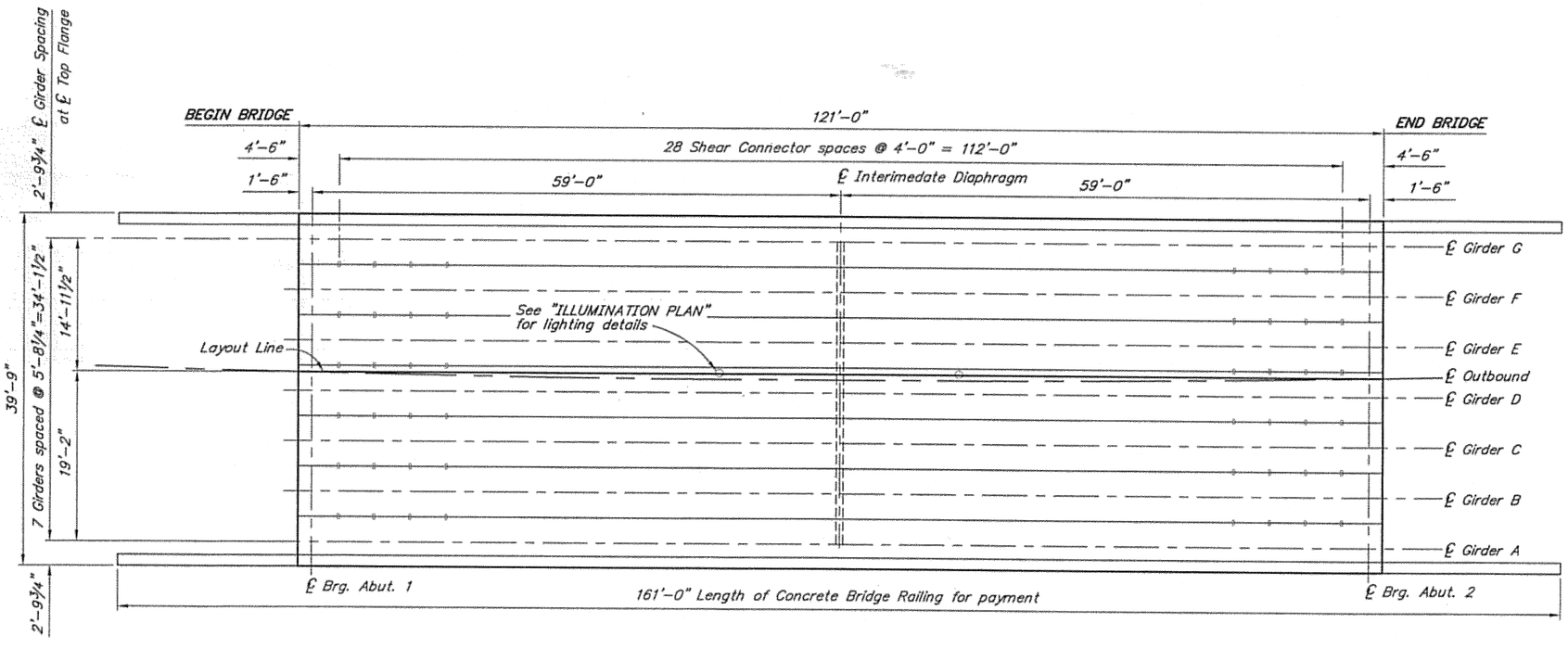


TOP ANCHOR BOTTOM ANCHOR

ASTM A307 GALVANIZED

ANCHOR DETAIL

12 6 0 1 2 3 In. Feet



FRAMING PLAN

12 0 4 8 12 In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
7/1/16
REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

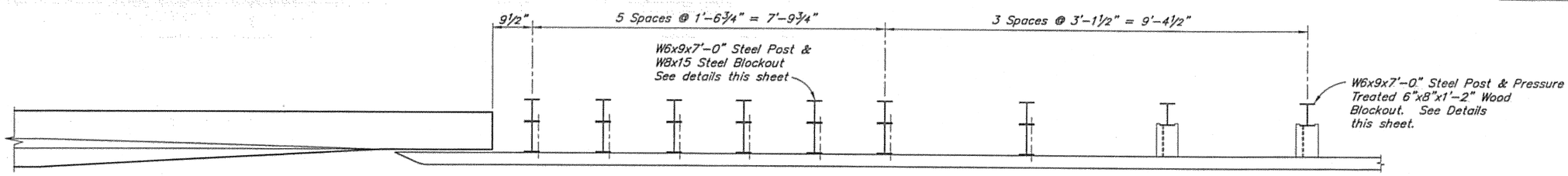
EGAN DRIVE

FRAMING PLAN AND TYPICAL SECTION

BRIDGE NO. 2193

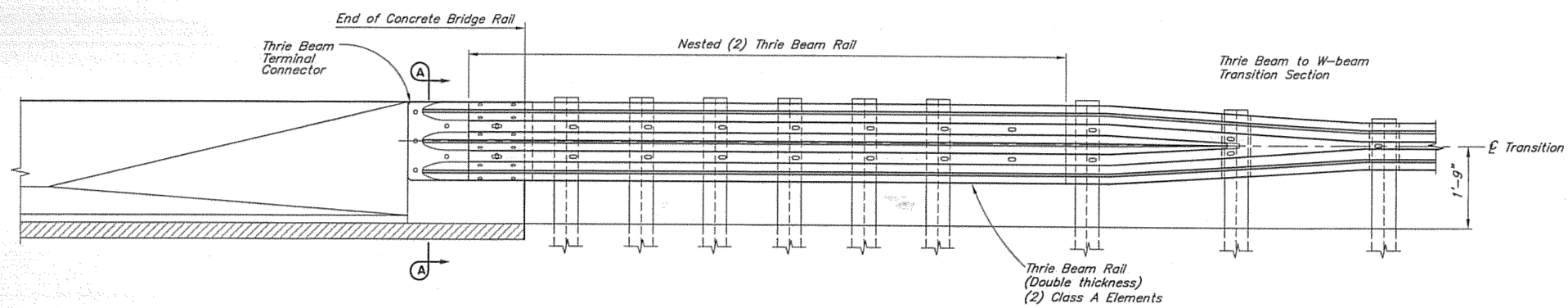
DWG. NO. 6

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N18	269



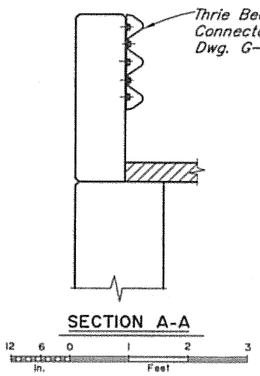
PLAN

12 6 0 1 2 3
In. Feet



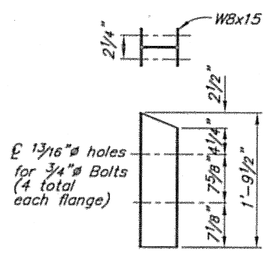
THRIE BEAM TRANSITION - ELEVATION

12 6 0 1 2 3
In. Feet



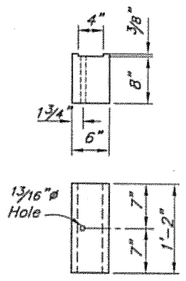
SECTION A-A

12 6 0 1 2 3
In. Feet



THRIE BEAM BLOCKOUT

12 6 0 1 2
In. Feet



WOOD BLOCKOUT

12 6 0 1 2
In. Feet

NOTES:

1. All guardrail and connection hardware to conform to AASHTO M-180.
   All H.S. Bolts conform to ASTM A325.
   All other steel to conform to ASTM A709 Grade 36.
2. Conform to G-00, G-04S, G-09S for all guardrail details not shown.
3. Lap approach guardrail to prevent snags from oncoming traffic.
4. Provide 2" horizontal slot in approach guardrail. Adjust guardrail bolts for sliding fit.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

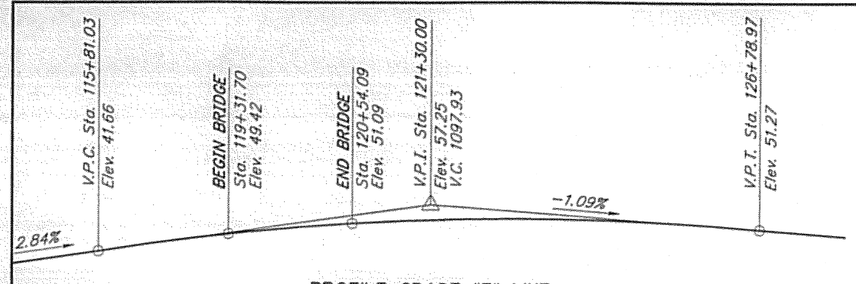
WEST LEMON VALLEY ACCESS UNDERCROSSING NORTHBOUND

EGAN DRIVE

THRIE BEAM TRANSITION

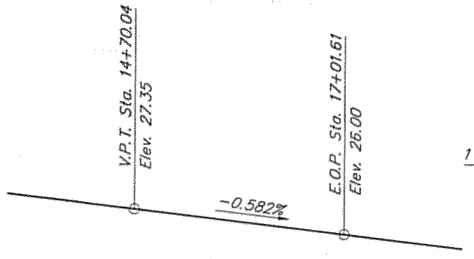
BRIDGE NO. 2193
DWG NO. 9

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	NI	269



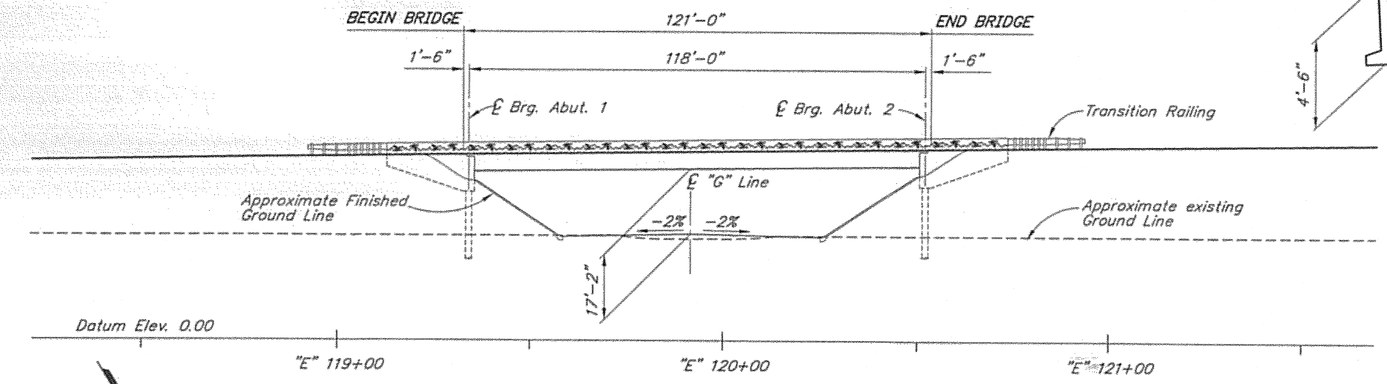
PROFILE GRADE "E" LINE

No Scale



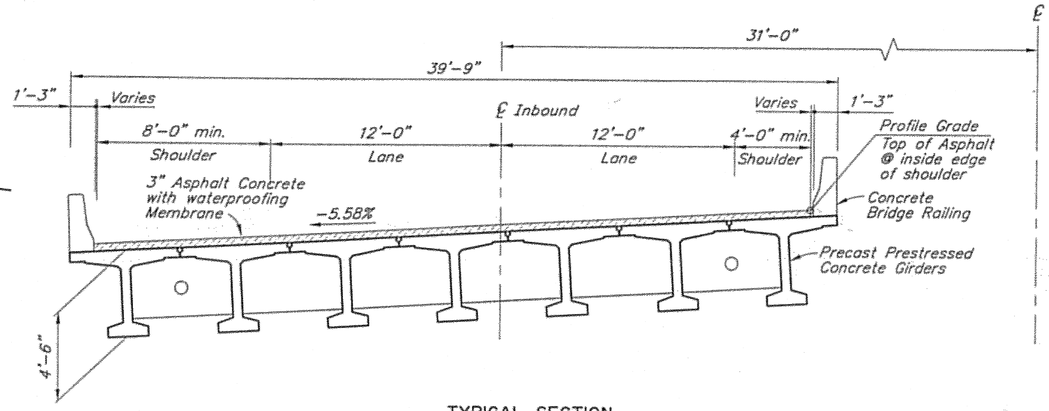
PROFILE GRADE "G" LINE

No Scale



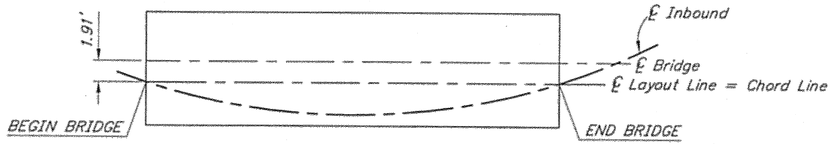
ELEVATION

10 0 20 40 Feet



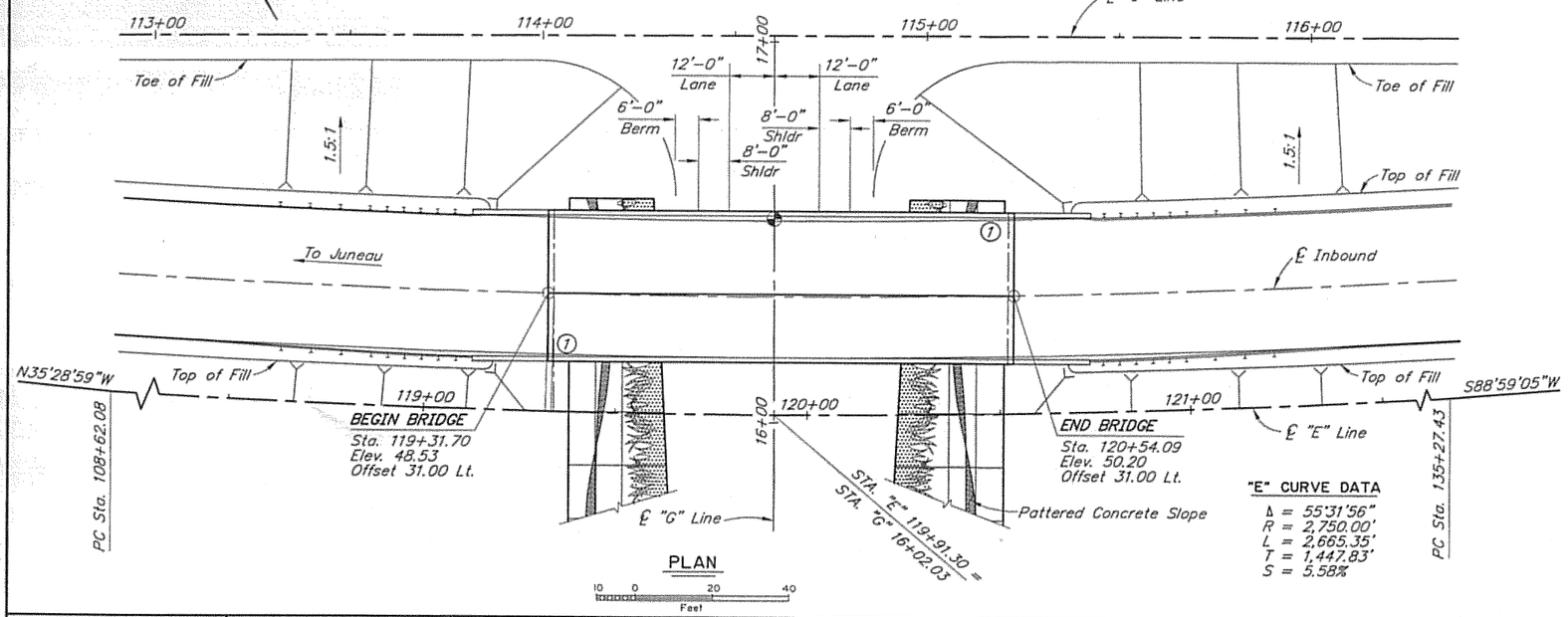
TYPICAL SECTION

12 0 4 8 In. Feet



LAYOUT LINE

No Scale



PLAN

10 0 20 40 Feet

"E" CURVE DATA

Δ = 55°31'56"
R = 2,750.00'
L = 2,665.35'
T = 1,447.83'
S = 5.58%

BRIDGE DRAWING INDEX

TITLE	DWG. NO.
GENERAL LAYOUT	1
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GIRDERS	7
CONCRETE BRIDGE RAILING	8
THRIE BEAM TRANSITION	9

① Approximate location of Bridge Number Plate.

◔ Point of minimum vertical clearance.

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	LAYOUT BY: Elmer Marx	CHECKED BY: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	SPECIFICATIONS BY: Elmer Marx	P S & E COMPARED: Keith Carlson
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson	APPROVAL RECOMMENDED BY: Rich Pratt	

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49TH — Elmer E. Marx III No. CE 9490 — REGISTERED PROFESSIONAL ENGINEER

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

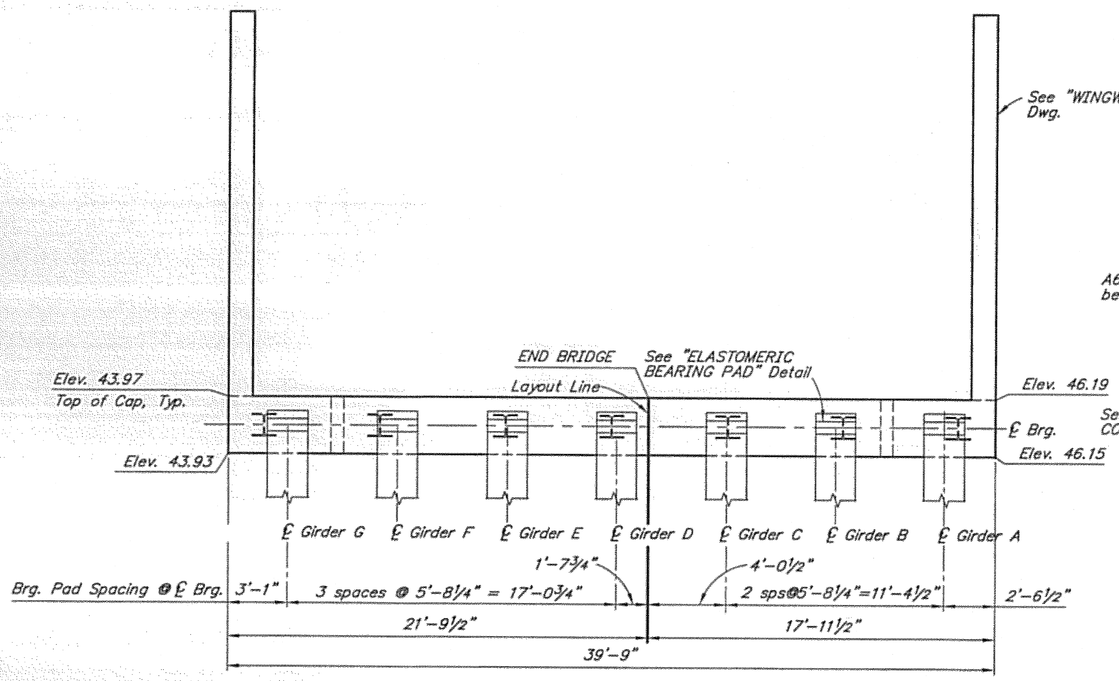
EGAN DRIVE

GENERAL LAYOUT

BRIDGE NO. 2194

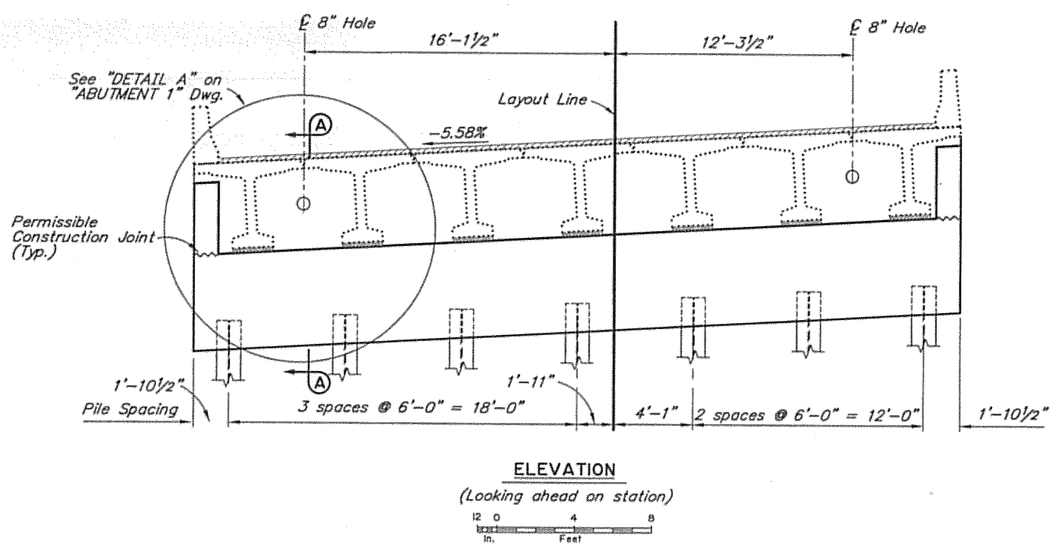
DWG. NO. 1

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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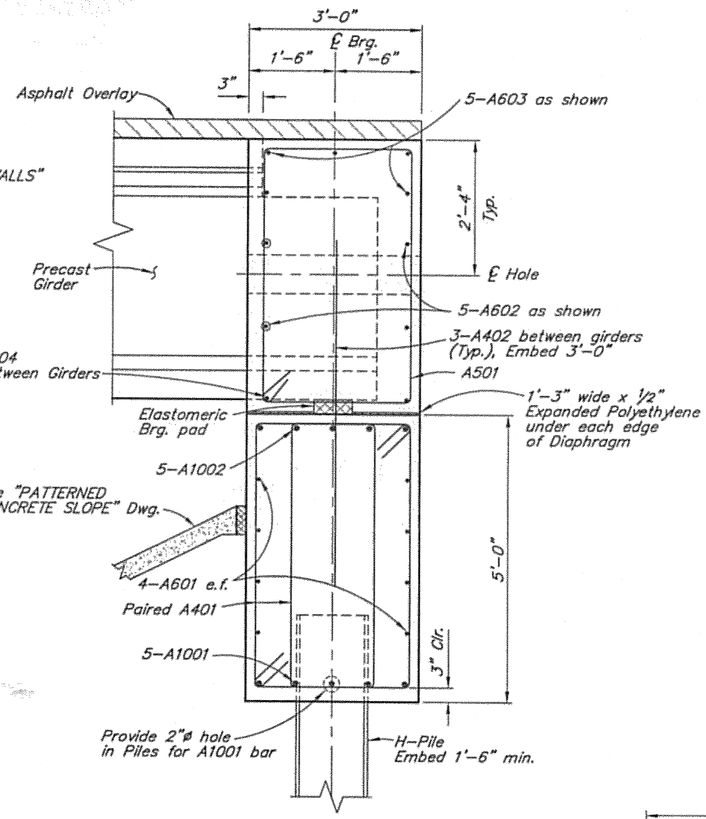


PLAN

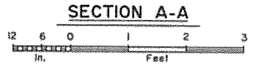




ELEVATION
(Looking ahead on station)

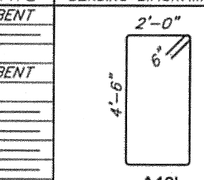


SECTION A-A

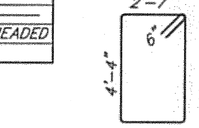


REINFORCING STEEL-ONE ABUTMENT

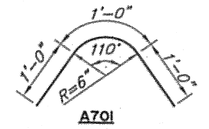
	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
	A401	4	132	14'-0"	BENT	
	A402	4	18	6'-0"	——	
a	A501	5	38	14'-0"	BENT	
	A601	6	8	39'-5"	——	
a,b	A602	6	5	36'-10"	——	
a	A603	6	5	39'-5"	——	
a	A604	6	6	3'-3"	——	
a	A701	7	8	3'-0"	BENT	
c	A1001	10	5	39'-5"	——	
	A1002	10	5	39'-5"	HEADED	



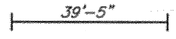
A401



A501

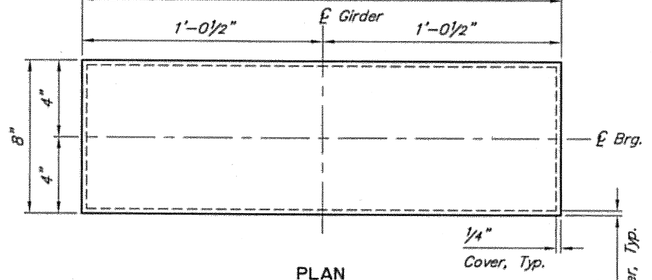


A701

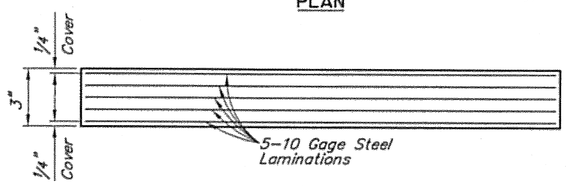


A1001

a – Epoxy coated
b – Field adjust
c – Headed bar to conform to ASTM A970.



PLAN



ELEVATION
ELASTOMERIC BEARING PAD

(50 Durometer, Grade 5)
Dead Load = 99 k
Live Load = 72 k



DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER

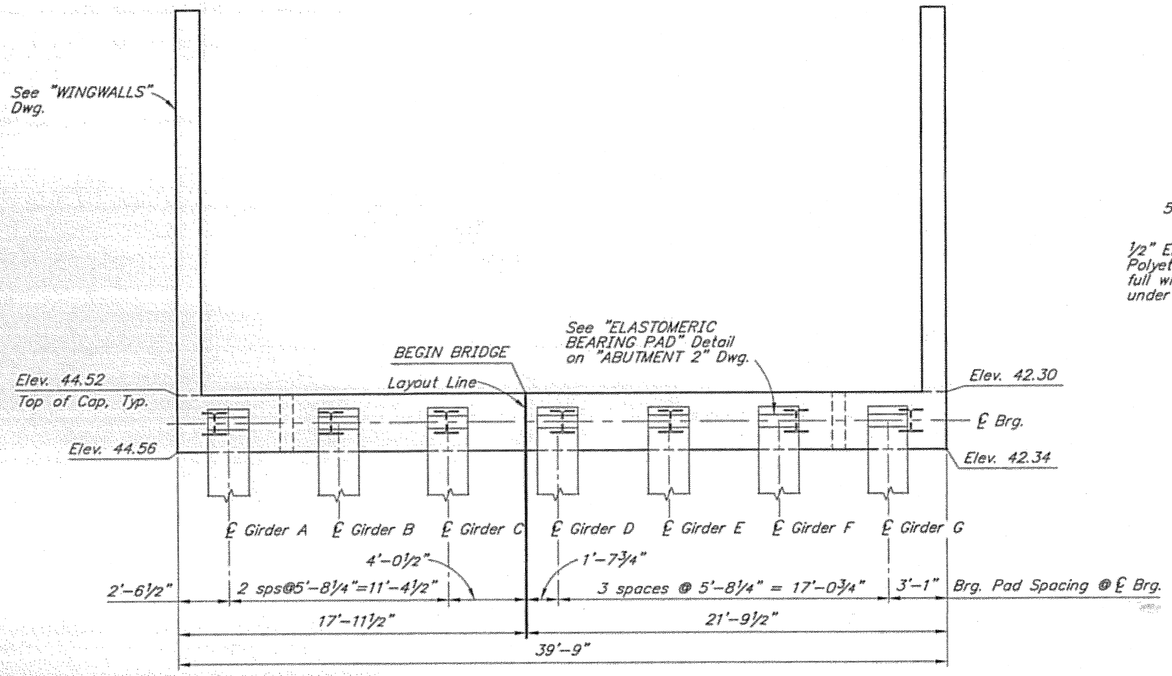
WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

EGAN DRIVE

ABUTMENT 2

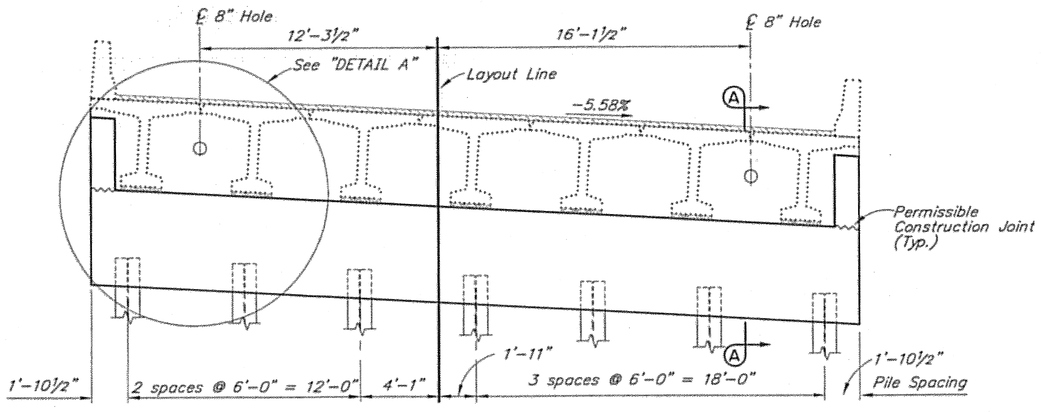
BRIDGE NO. 2194
DWG. NO. 4

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N3	269



PLAN

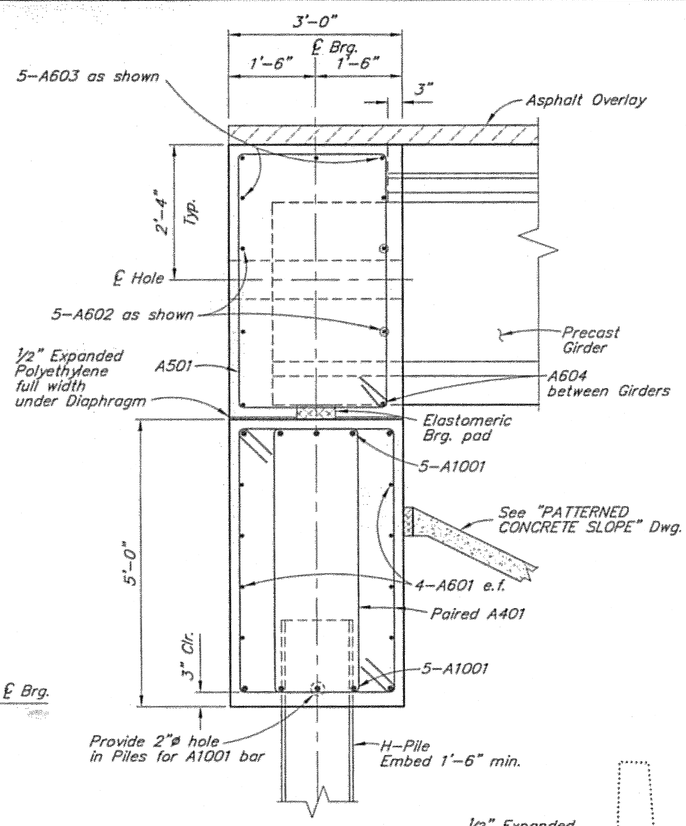
12 0 4 8 In. Feet



ELEVATION

(Looking back on station)

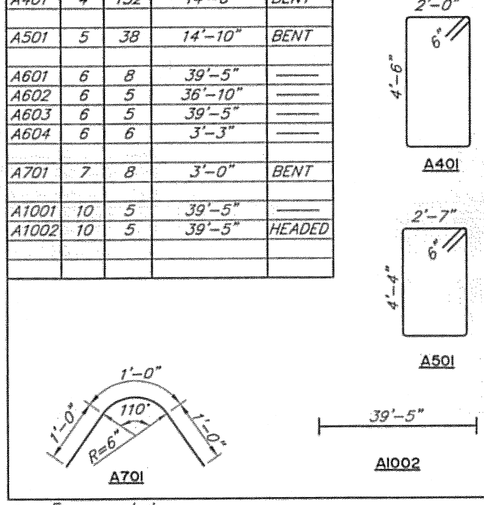
12 0 4 8 In. Feet



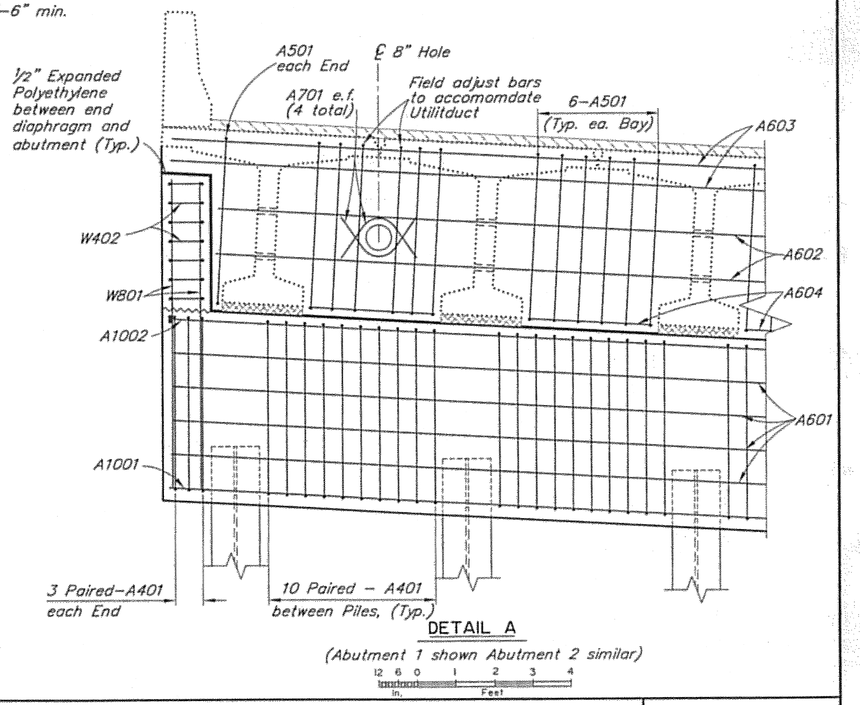
SECTION A-A

12 6 0 1 2 3 In. Feet

	MARK	SIZE	NO.	LENGTH	TYPE	BENDING DIAGRAM
	A401	4	132	14'-0"	BENT	
a	A501	5	38	14'-10"	BENT	
	A601	6	8	39'-5"	——	
a,b	A602	6	5	36'-10"	——	
a	A603	6	5	39'-5"	——	
a	A604	6	6	3'-3"	——	
a	A701	7	8	3'-0"	BENT	
	A1001	10	5	39'-5"	——	
c	A1002	10	5	39'-5"	HEADED	



a – Epoxy coated
b – Field adjust
c – Headed bar to conform to ASTM A970.



DETAIL A

(Abutment 1 shown Abutment 2 similar)

12 6 0 1 2 3 4 In. Feet

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson		
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx		
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BRIDGE SECTION

STATE OF ALASKA 49 TH
Elmer E. Marx III
No. CE 9490
REGISTERED PROFESSIONAL ENGINEER
31 DEC 06

WEST LEMON VALLEY ACCESS UNDERCROSSING SOUTHBOUND

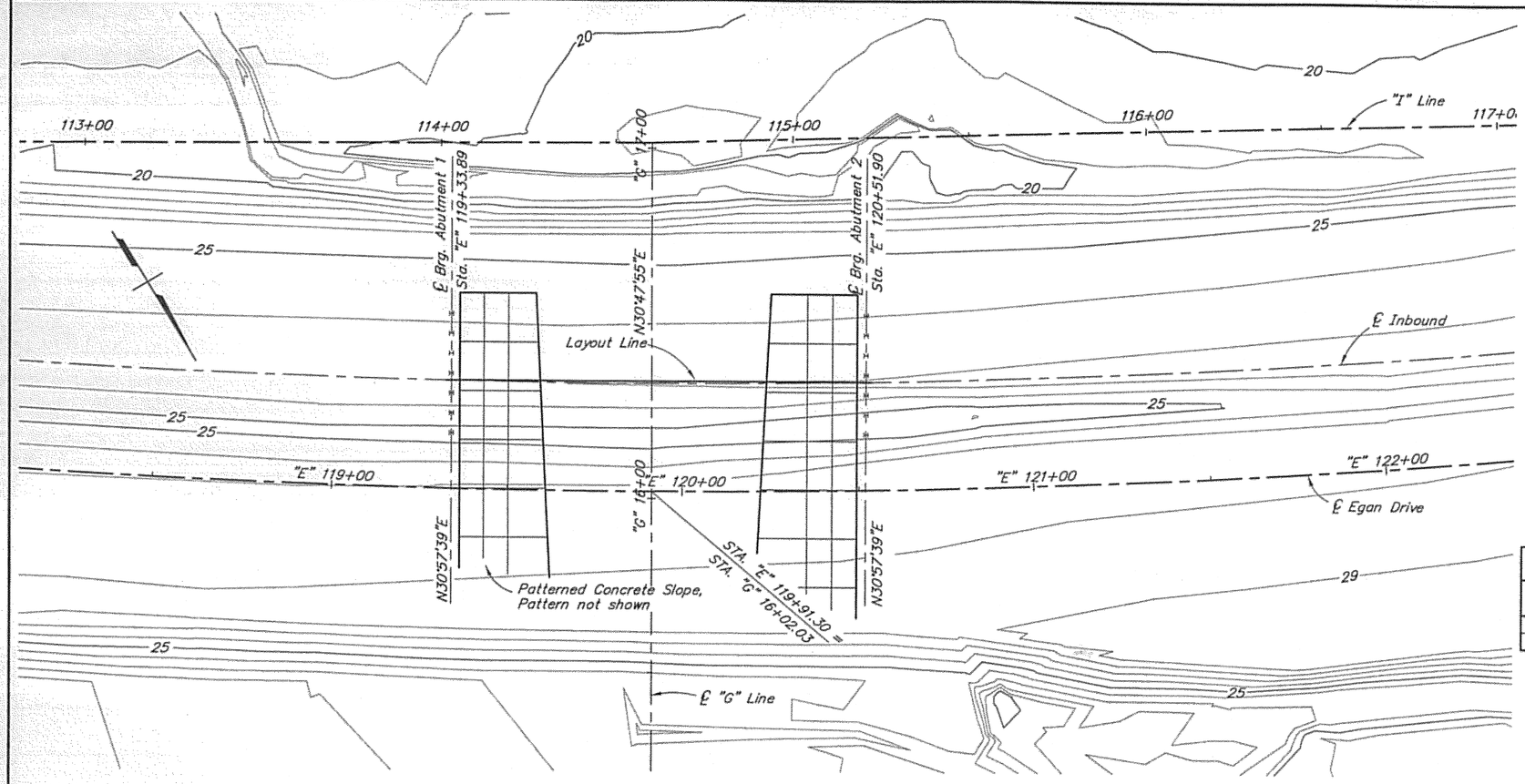
EGAN DRIVE

ABUTMENT 1

BRIDGE NO. 2194

DWG. NO. 3

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	STP-093-2(31)~71431	2006	N2	269



SITE PLAN

10 0 20 40
Feet

GENERAL NOTES

DESIGN: .....AASHTO LRFD Bridge Design Specifications, Third Edition, 2004, with latest interim specifications.

LIVE LOAD:.....HL-93

DEAD LOAD:.....Includes 50 psf for all wearing surfacing.

SEISMIC PARAMETERS:.....Acceleration Coefficient, a = 0.15
Site Coefficient, s = 1.5
Liquefaction Potential = High
AASHTO 90% probability of not being exceeded in 50 years.

REINFORCEMENT:.....ASTM A706, Fy = 60,000 psi
Space reinforcement evenly unless otherwise noted.
ASTM A970 for all headed bars.

PRESTRESSED CONCRETE:.....See "GIRDERS" Dwg.

CONCRETE:.....Use Class A Concrete concrete unless otherwise noted, f'c = 4000 psi

STRUCTURAL STEEL:.....ASTM A709, Grade 36, Fy = 36,000 psi. Unless otherwise noted.

PILING:.....ASTM A709, Grade 50, Fy = 50,000 psi. Pile tip reinforcing is required.

PILE DATA TABLE

LOCATION	PILE TYPE	MINIMUM TIP ELEVATION	ESTIMATED TIP ELEVATION	ULTIMATE CAPACITY	DESIGN LOAD
Abutment 1	HP14x117	-10.0 ft.	-57.0 ft.	480 k	206 k
Abutment 2	HP14x117	-10.0 ft.	-57.0 ft.	480 k	206 k

BRIDGE BASIS OF ESTIMATE

ITEM NO.	ITEM	PAY UNIT	ESTIMATING UNIT	SUBST.	SUPERST.	TOTAL
205(3)	Foundation Fill	CY	CY	1250	———	1250
501(1)	Class A Concrete	LS	CY	67.8	39.7	107.5
501(7A)	Precast Concrete Member (119'x54" Girder)	EA	EA	———	7	7
503(1)	Reinforcing Steel	LS	LBS	12,810	———	12,810
503(2)	Epoxy-Coated Reinforcing Steel	LS	LBS	2445	520	2965
505(5)	Furnish Structural Steel Piles	LF	LF	1368.2	———	1368.2
505(6)	Drive Structural Steel Piles	EA	EA	14	———	14
507(4)	Concrete Bridge Railing	LF	LF	———	322.0	322.0
508(1)	Waterproofing Membrane	LS	SF	———	4507	4507
606(12)	Guardrail / Bridge Rail Connection	EA	EA	———	4	4

Item numbers are for reference only. Quantities shown are not necessarily the pay quantities nor the total quantity of the particular item.

ABBREVIATIONS

℄	= Centerline	Hwy.	= Highway
ℙ	= Plate	k	= thousand pounds
&	= and	Lbs.	= pounds
@	= at	LS	= lump sum
ø	= diameter	max.	= maximum
Approx.	= approximate	min.	= minimum
Abut.	= Abutment	n.a.	= not applicable
bot.	= bottom	n.c.	= not calculated
Br.	= Bridge	n.f.	= near face
btwn.	= between	No.	= number
Brg.	= Bearings	o.c.	= on center
C.I.P.	= Cast-in-Place	O.H.W.	= Ordinary High Water
Clr.	= Clear, Clearance	psi	= pounds per square inch
col.	= column	Req'd	= required
dia.	= diameter	R/W	= right of way
D.H.W.	= Design High Water	spc.	= space, spaces
Dwg.	= drawing	Sta.	= station
(E)	= existing	Subst.	= substructure
Ea.	= each	Superst.	= superstructure
Elev.	= elevation	Symm.	= symmetric
e.f.	= each face	SY	= square yard
f.f.	= far face	Typ.	= typical
Grd.	= girder	UT	= utrasonic testing

DESIGNED BY: Elmer Marx	CHECKED: Keith Carlson	HYDRAULICS BY:	CHECKED BY:
DRAWN BY: Sam Sollie	CHECKED: Elmer Marx	FOUNDATIONS REVIEWED BY: Bruce Brunette	
QUANTITIES BY: Elmer Marx	CHECKED: Keith Carlson		

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EGAN DRIVE

SITE PLAN

BRIDGE NO. 2194

DWG NO. 2