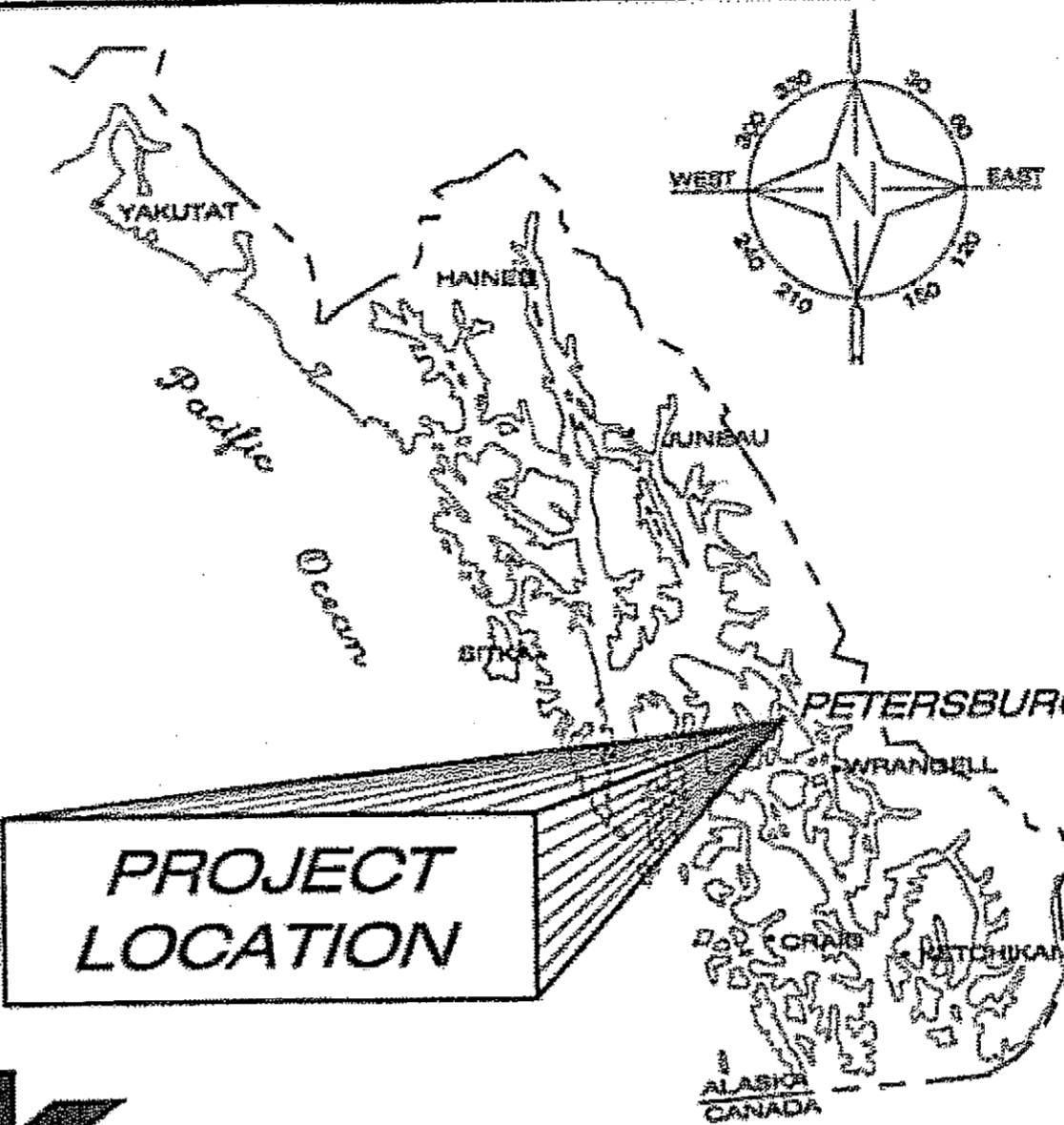


State of Alaska

Department of Transportation
and Public Facilities

Statewide Design and Engineering Services Division



Petersburg Mitkof Highway Ohmer Creek Bridge Replacement Project No. BR-0937(32) ~ 68896

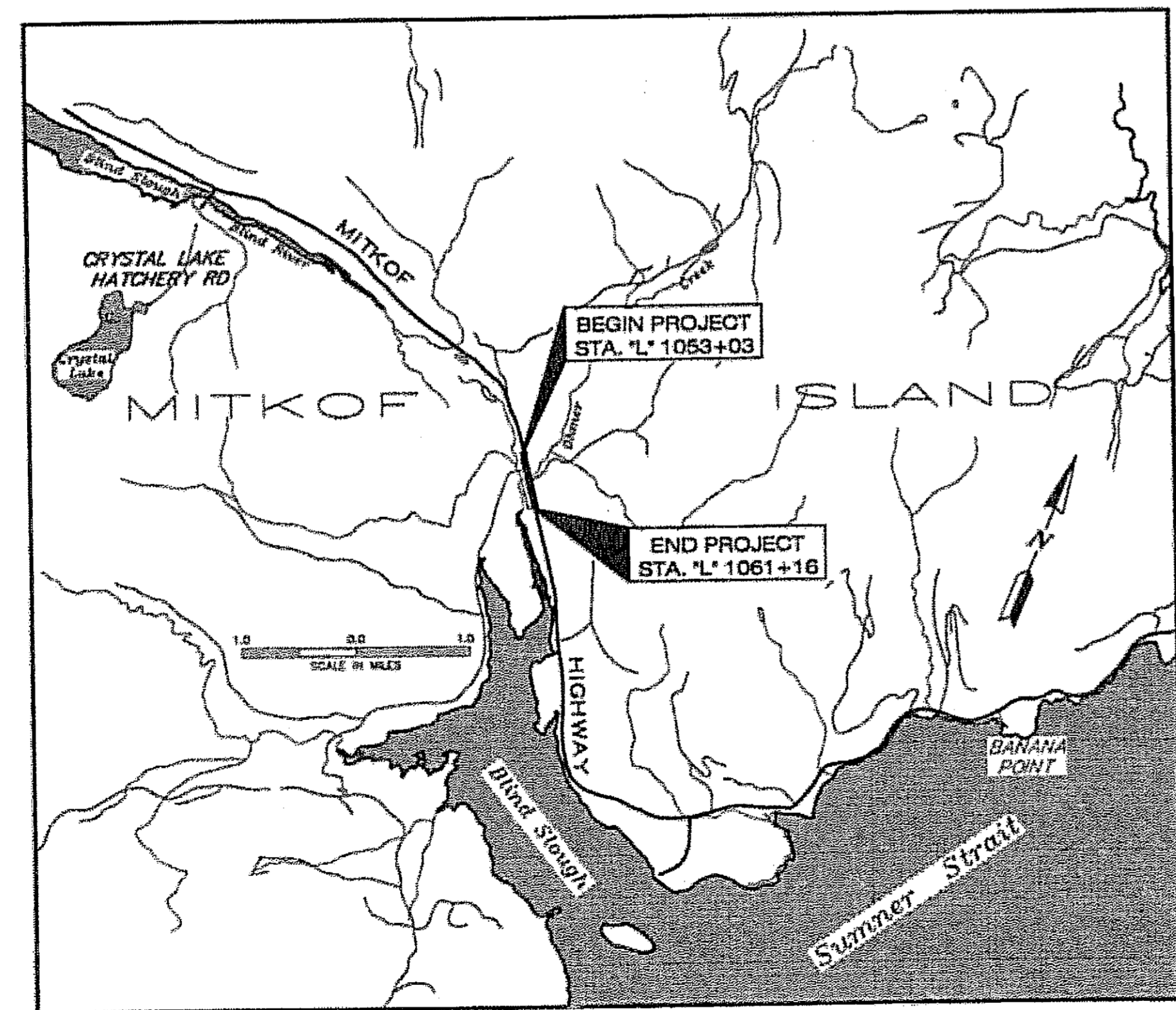
INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	SURVEY CONTROL PLAN
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & BASIS OF ESTIMATE
D1	CULVERT SUMMARIES
D2	MISCELLANEOUS SUMMARIES
E1-E4	CULVERT DETAILS
E5-E6	GUARDRAIL DETAILS
E7	ESCP - OHMER CREEK - DETAILS
E8	RIPARIAN PLANTING DETAILS
E9	MISCELLANEOUS DETAILS
E10	PARKING AREA - OHMER CREEK - PLAN
F1	LAYOUT PLAN VIEWS
H1-H3	TRAFFIC CONTROL PLANS
P1	BRIDGE AREA ROADWAY PROFILES
R1	USFS QUARRY DEVELOPMENT PLAN
S1-S7	OHMER CREEK BRIDGE (OCB) REPLACEMENT PLANS
S8	(OCB) TEST HOLE/PENETROMETER LOCATIONS

As-Built Drawings

Contractor: Keystone Construction
Project Engineer: Cliff Douglas
Date Began: June 28, 2006
Date Completed: May 15, 2007

HIGHWAY RESURFACING

ITEM	STATIONS	DESIGN DESIGNATIONS		PROJECT SUMMARY
		2006	2026	
A.D.T.		240	290	CDS ROUTE NO. 294,000
D.H.V. 12.7%		30	40	CDS MILEPOINT 20.092 to 20.246
V. (MPH)	B.O.P. 1053+03 TO E.O.P. 1061+16	50	50	LENGTH OF PROJECT - 813 FT.
P.H.F.		0.9	0.9	LENGTH OF GRADING - 813 FT.
Direction Distribute		55/45	55/45	WIDTH OF GRADING 28 FT.
%T.		3.0%	3.0%	
E.A.L. (20yr.)			50,000	



VICINITY MAP

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	E-00.00	G-09.04S	G-25.20	S-05.01
C-04.12	E-13.00	G-09.04W	G-30.00	S-30.03
C-05.10	G-00.01	G-10.01	G-31.00	T-05.10
D-04.21	G-04.06S	G-13.00	I-81.00	T-06.00
D-06.10	G-04.07W	G-20.10	S-00.10	T-21.02

ROUTE: - MILEPOINT: -

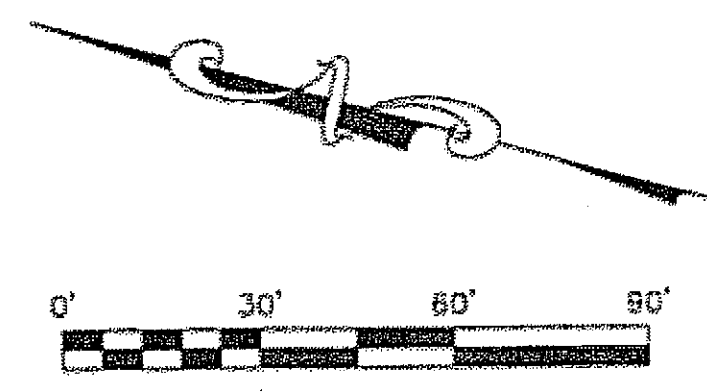
PATH: Q:\Psg\68896\Planset\BRIDGE\A1_Tsht.dwg
Wed, 22/Mar/06 02:09PM rgrantham
PLOT: PSPACE OR MSPACE: 1000mm=1m(F) TAB: TSHT

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

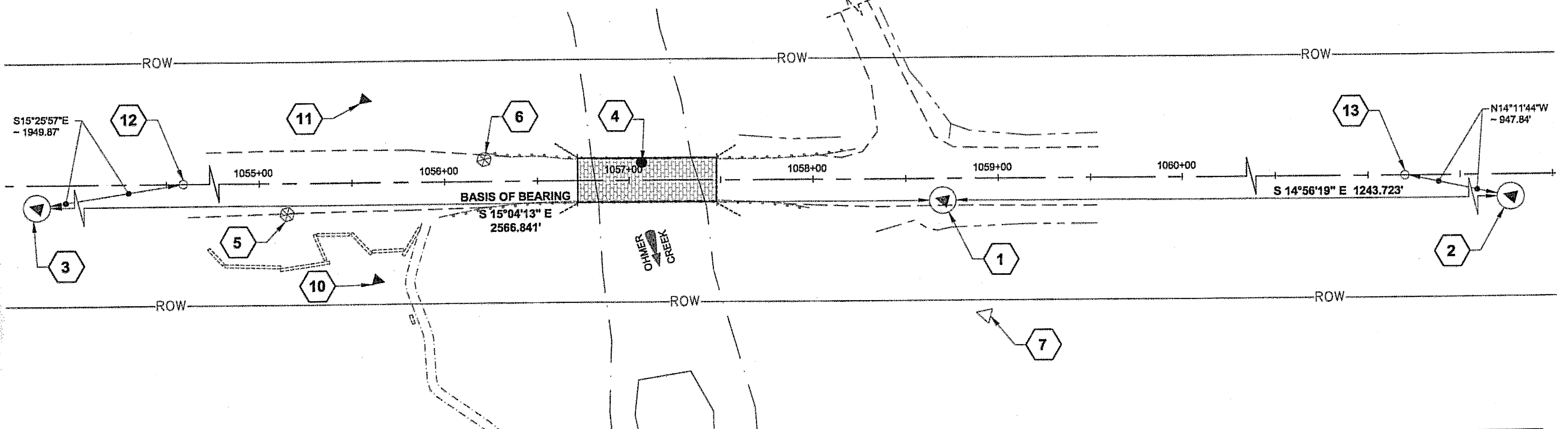
APPROVED: *[Signature]* 3-28-06
REGIONAL PRE-CONSTRUCTION ENGINEER DATE: 3/29/06

APPROVED: *[Signature]* 3/29/06
DIRECTOR, SOUTHEAST REGION DATE: 3/29/06
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0937(32) ~ 68896	2006	A1	30



COORDINATE TABLE								
SURVEY ID	PT. ID	LOCAL NORTHING	LOCAL EASTING	ELEVATION	AKSPC NORTHING	AKSPC EASTING	DESCRIPTION	LOCATION
CP1001	1	500000.00	500000.00	28.98'	1734813.743	2872501.612	ALCAP 1 1/2" / REBAR SET	Punch in 1.5" ALCAP Mon. on #5 Rebar 120' South of South end of Bridge - West Shldr. Mitkof Hwy.
CP1002	2	498798.31	500320.61		1733616.606	2872838.381	ALCAP 1 1/2" / REBAR SET	Punch in 1.5" ALCAP Mon. on #5 Rebar Adjacent to and 29' from Ohmer Creek Campground Sign - West Shldr. Mitkof Hwy.
CP1003	3	502478.56	499332.61		1737282.834	2871800.900	ALCAP 1 1/2" / REBAR SET	Punch in 1.5" ALCAP Mon. on #5 Rebar Adjacent to and 9.2' from the Mitkof Hwy. 21 Mile Mark Sign - West Shldr. Mitkof Hwy.
CP1004	4	500163.07	499978.46	29.21'			MAG NAIL	
CP1005	5	500341.55	499903.29	28.57'			SPIKE	
CP1006	6	500246.44	499958.49	28.63'			SPIKE	
CP1007	7	499962.13	499945.68	25.10'			HUB & TACK (H&T)	
CP1008	8	500263.42	500097.42	22.65'			H & T WITH SPIKE	
CP1009	9	500075.77	499784.73	20.96'			H & T WITH SPIKE	
TBM#1	10			28.04'			SPIKE IN 16" HEMLOCK	
TBM#2	11			28.26'			SPIKE IN 16" HEMLOCK	
PSG-22		484788.07	508860.38	90.03'	1719877.256	2879586.284		Center of Plastic ADOT Control Mon.
	12	500598.99	499851.48					☉ STATION 1052+53
	13	499717.21	500088.17					☉ STATION 1061+66



LEGEND	
FEATURES	
CENTERLINE DITCH	---
EDGE OF WATER	---
ROADS	
EDGE GRAVEL ROAD	---
GUARD RAIL	---
EXISTING BRIDGE	---
CONTROL MONUMENTATION	
PRIMARY CONTROL MONUMENT (1.5" ALCAP MONUMENT ON 3/4" #5 REBAR)	▲
HUB & TACK	△
MAGNETIC MASONRY NAIL	●
SPIKE	⊗
SPIKE IN TREE - PROJECT B.M.	▼

HORIZONTAL CONTROL
 HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE 2004 OHMER CREEK-GRID.
 THE 2004 OHMER CREEK-GRID SYSTEM IS A LOCAL GROUND COORDINATE SYSTEM BASED AT OHMER CREEK CONTROL POINT #1001. IT RELATES TO THE NAD 83, AKSPC ZONE 1 THROUGH THE FOLLOWING PARAMETERS:
 ZONE = NAD83 AKSPC ZONE 1
 GRID SCALE = 0.999903839399
 CONVERGENCE = +0°46'24.207977"
 TRANSLATION ABOUT OHMER CREEK CP #1001 AS FOLLOWS:
 AKSPC NORTHING = 1734813.743 FT US
 AKSPC EASTING = 2872501.612 FT US
 LOCAL NORTHING = 500000.0000 FT US
 LOCAL EASTING = 500000.0000 FT US
 THE PROJECT SPECIFIC BASIS OF BEARING IS S15°04'13"E FROM POINT CP#1003 TO POINT CP#1001.

VERTICAL CONTROL
 THE VERTICAL DATUM FOR THE 2004 OHMER CREEK-GRID IS BASED ON THE ORTHOMETRIC ELEVATION INFORMATION PROVIDED FOR CONTROL STATION PSG-22, BY ADOT FOR THE PSG-SOUTH MITKOF FERRY TERMINAL LOCATIONS PRELIMINARY RECON. SURVEY PROJECT # 67833. PSG-22 ACCEPTED OTHRO EL. = 99.026' MLLW.
 ELEVATION FOR CP #1001 WAS ESTABLISHED RELATIVE TO PSG-22 USING RTK GPS WITH GEIOD99.
 RELATIVE ELEVATIONS FOR CONTROL POINTS #1004 - #1009, AND PROJECT BENCHMARKS TBM-1 & TBM-2 WERE DETERMINED BY DIFFERENTIAL LEVELS USING A KERN GKO-A SPIRIT LEVEL.
 THE PROJECT SPECIFIC BASIS OF VERTICAL CONTROL IS TBM#1, HAVING AN ACCEPTED ORTHOMETRIC ELEVATION OF 28.04' MLLW.

SURVEYOR
RICK G. BRAUN, L.S.
 P.O. BOX 211, PETERSBURG AK 99833
 PH (907) 772-3986

As Built 5-10-07

PATH:
 Q:\Psg\68896\Plan\BRIDGE\A2_survey.dwg
 Wed, 22/Mar/06 02:10PM rgrantham
 TAB: A2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

SURVEY CONTROL PLAN

DESIGNED BY: B. HOLBROOK

CHECKED BY: J. HEUMANN
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

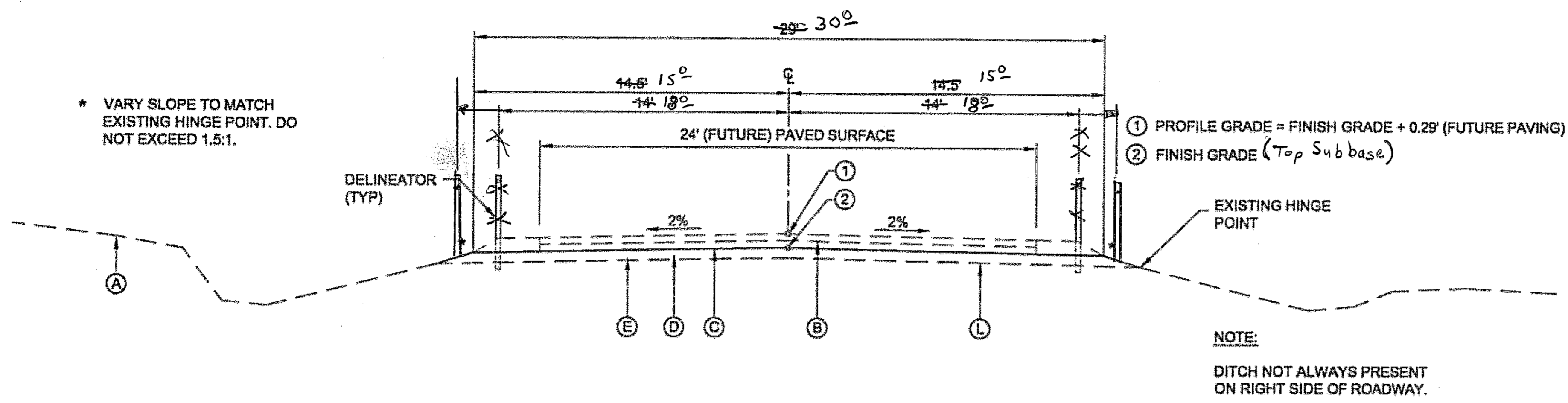
SURVEY CONTROL PLAN
 PROJECT DESIGNATION NUMBER
 BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006

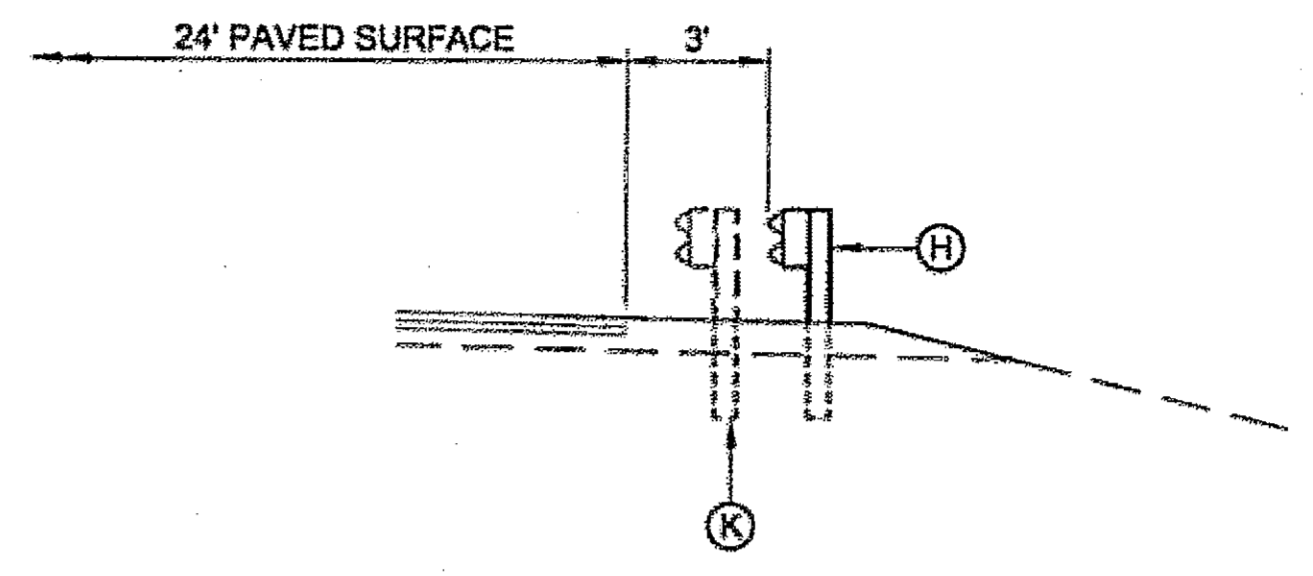
SHEET NUMBER	TOTAL SHEETS
A2	30

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

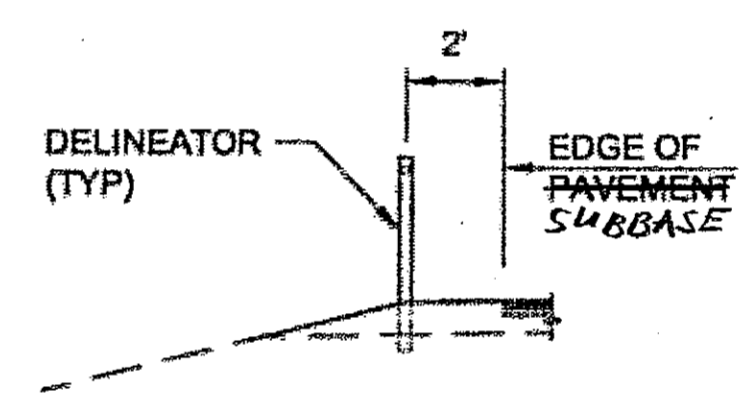
PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896
TYPICAL SECTIONS



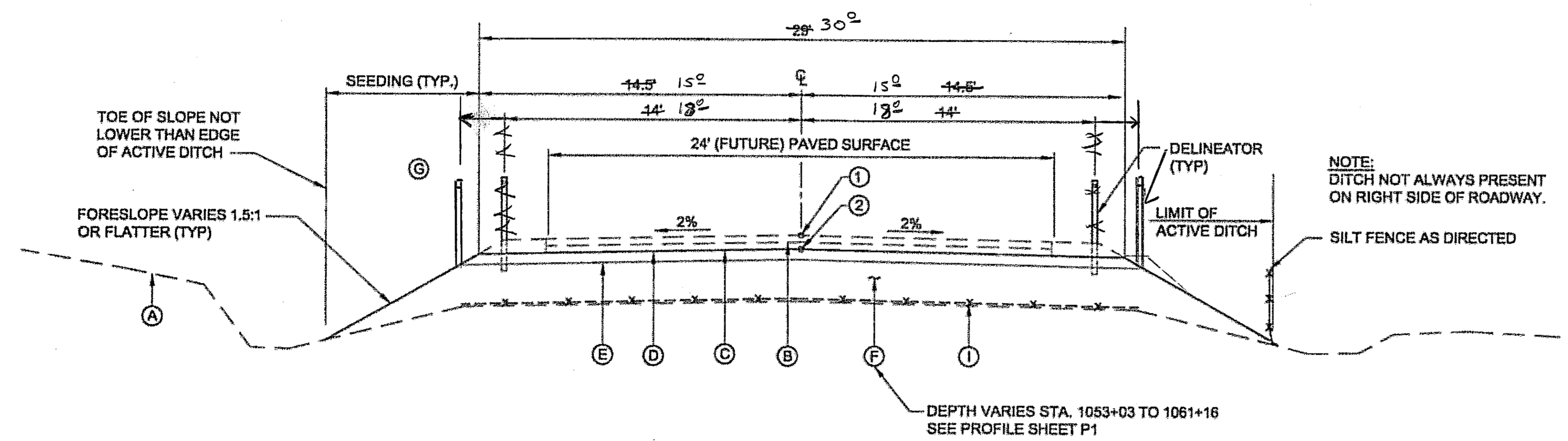
TYPICAL SECTION - STANDARD ROADWAY
 B.O.P. STA. 1053+03 TO 1053+03
 STA. 1061+16 TO E.O.P 1061+16



TYPICAL SECTION GUARDRAIL
 (SEE TABLE ON SHEET D2 FOR LOCATIONS)



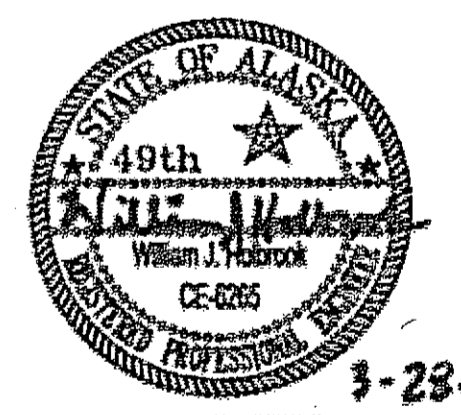
DELINEATOR DETAIL
 NOTE:
 1. SEE STANDARD DWG T-05.10 FOR SPACING.



TYPICAL SECTION - RAISED ROADWAY
 STA. 1053+03 TO 1061+16

- LEGEND:**
- (A) EXISTING GROUND
 - (E) 4" SUBBASE GRADING "C"
 - (F) BORROW (SELECT MATERIAL, TYPE "D")
 - (G) SEEDING
 - (H) W-BEAM GUARDRAIL (SEE END ANCHORAGES)
 - (I) GEOTEXTILE, SEPARATION
 - (K) REMOVING AND DISPOSING OF GUARDRAIL
 - (N) CLEARING
 - (O) MATTING

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: B. BENNETT / R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
B1	30

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	QUANTITY
201(1B)	CLEARING	LUMP SUM	ALL REQUIRED
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202(4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	424 119
203(5)	BORROW, TYPE D	CUBIC YARD	2000
205(5)	FOUNDATION FILL	C.Y.V.M.	400 572
304(1)	SUBBASE, GRADING C	TON	400
501(1)	CLASS A CONCRETE	LUMP SUM	ALL REQUIRED
501(7A)	PRESTRESSED CONCRETE MEMBER (54"x113" BULB-T GIRDER)	EACH	5 ✓
503(1)	REINFORCING STEEL	LUMP SUM	ALL REQUIRED
503(2)	EPOXY COATED REINFORCING STEEL	LUMP SUM	ALL REQUIRED
505(5)	FURNISH STRUCTURAL STEEL PILES (HP 14X117)	LINEAR FOOT	525 ✓
505(6)	DRIVE STRUCTURAL STEEL PILES (HP 14X117)	EACH	12 ✓
505(9)	LOAD TEST	EACH	2 ✓
505(10)	SPECIAL PILE EXCAVATION	CONTINGENT SUM	ALL REQUIRED
507(1)	STEEL BRIDGE RAILING	LINEAR FOOT	302 ✓
514(1)	ROCKERY WALL	SQUARE FOOT	980 1134
603(1-18)	18-INCH CSP	LINEAR FOOT	24 23.5
603(17-24)	24-INCH PIPE	LINEAR FOOT	164 107
603(22)	CULVERT MARKER POST, FLEXIBLE	EACH	8 ✓
606(8)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	154 37.5
606(9)	CONTROLLED RELEASE TERMINAL (CRT)	EACH	1 ✓
606(11)	EXTRUDER TERMINAL (ET-2000)	EACH	3 ✓
606(12)	GUARDRAIL/BRIDGE RAIL CONNECTION	EACH	4 ✓
606(13)	REMOVAL AND SALVAGE EXISTING GUARDRAIL	LINEAR FOOT	250 366.5
611(1A)	RIPRAP, CLASS I	CUBIC YARD	5 ✓
611(1B)	RIPRAP, CLASS II	CUBIC YARD	1050 1124
615(1)	STANDARD SIGN	SQUARE FOOT	60-84 71.87
615(5)	DELINEATOR, FLEXIBLE	EACH	4 ✓
618(1)	SEEDING	ACRE	0.3
621(1)	PLANTINGS	LUMP SUM	ALL REQUIRED
625 (2)	CABLE HAND RAIL	LINEAR FOOT	140 123
630 (1)	GEOTEXTILE, SEPARATION	SQUARE YARD	2985 1608
630 (2)	GEOTEXTILE, EROSION CONTROL, CLASS I	SQUARE YARD	1020 795
633 (1)	SILT FENCE	LINEAR FOOT	1000 804
639(2)	COMMERCIAL DRIVEWAY	EACH	2 3
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(4)	WORKERS MEALS AND LODGING OR PER DIEM	LUMP SUM	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641(4)	TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS	CONTINGENT SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643(15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	QUANTITY
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
643(29)	CONSTRUCTION STRUCTURE / TEMPORARY CROSSING	LUMP SUM	ALL REQUIRED
644(6)	VEHICLES	LUMP SUM	ALL REQUIRED

BASIS OF ESTIMATE

ITEM No.	ITEM	QUANTITY
201(1B)	CLEARING	0.1 ACRES
304(1)	SUBBASE, GRADING "C"	1.90 TON/CUBIC YARD
501(1)	CLASS "A" CONCRETE	115 CUBIC YARDS
503(1)	REINFORCING STEEL	8292 LBS.
503(2)	EPOXY COATED REINFORCING STEEL	10853 LBS.
621(1)	PLANTINGS	7200 S.F.; 1 PLANT / 9 S.F. 800 PLANTS

ADDENDUM NUMBER

ATTACHMENT NUMBER

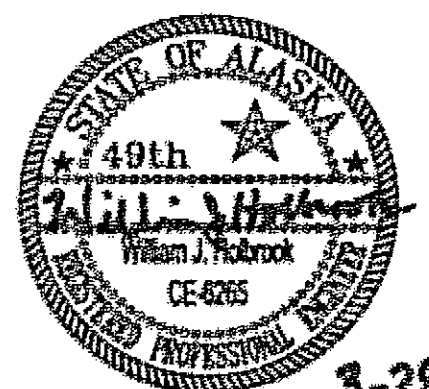
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

**ESTIMATE OF QUANTITIES
 & BASIS OF ESTIMATE**

DESIGNED BY: B. HOLBROOK



3-28-06

CHECKED BY: J. HEUMANN

DRAWN BY: DR DODGE / R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

**ESTIMATE OF
 QUANTITIES &
 BASIS OF ESTIMATE**

PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

STATE YEAR

ALASKA 2006

SHEET NUMBER TOTAL SHEETS

C1 30

As-Built C. Douglas 5-11-07

CULVERT PIPE EXTENSION, REPAIR, OR REPLACEMENT SUMMARY

PIPE	STATION	EXIST PIPE SIZE (INCHES)	EXISTING PIPE MATERIAL	SKEW ANGLE	* PIPE LENGTH (FEET)	WATERS US STREAM	FISH STREAM	ACTION									REMARKS		
								REPLACE PIPE (INCHES)	EXTEND REPAIR PIPE (INCHES)	INSTALL INLET ARMOR	INSTALL OUTLET ROCK	ADD X (FEET) AT INLET	ADD X (FEET) AT OUTLET	REMOVE X (FEET) AT INLET	REMOVE X (FEET) AT OUTLET	ADD INLET END SECTION		REMOVE INLET END SECTION	REMOVE OUTLET END SECTION
78	1058+72	18	CMP	10	47.1			24	-			X							
79	1060+85	18	CMP	42	64.3			-	18			X	6'	7' +			X	X	
80	1062+48	18	CMP		54.8			24	-			X							
81	1066+38	18	CMP		53			-	18			X	7' +	3.5			X		

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

CULVERTS WORK SUMMARY

NOTES:
 * LENGTHS GIVEN ARE ALONG AXIS OF PIPE.

NEW CULVERT MATERIAL SUMMARY

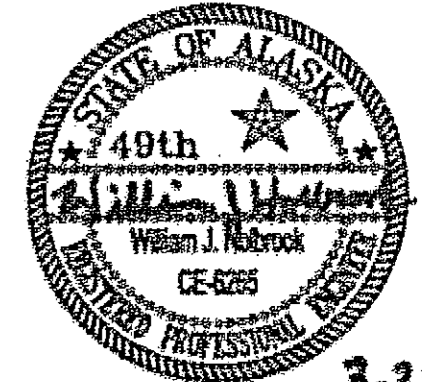
PIPE NO.	STATION	CULVERT SIZE						CULVERT MATERIAL
		18 INCH	24 INCH	30 INCH	36 INCH	42 INCH	48 INCH	
78	1058+72		51' 4"					HDPE
79	1060+85	42' 3"						CMP
80	1062+48		56'					HDPE
81	1066+38	42' 0.5"						CMP
Total 18 Inch Pipe=		2423.5'						
Total 24 Inch Pipe=			164' 07"					

CULVERT REMOVAL SUMMARY

PIPE NO.	STATION	SIZE (INCHES)	REMOVAL LENGTH (FEET)	REMARKS
78	1058+72	18	47	
79	1060+85	18	11	
80	1062+48	18	55	
81	1066+38	18	11	
TOTAL:			124'	

- * NOTE:
- 1.) ALL ORIGINAL CONSTRUCTION METAL PIPES ARE BITUMINOUS COATED.
 - 2.) REPAIR AND EXTENSION PIPE LENGTHS SHALL MATCH EXISTING PIPE IN MATERIAL AND COATING.
 - 3.) FIELD VERIFY ALL EXISTING PIPES TO REMAIN.
 - 4.) ALL 24" PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE).

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: DR DODGE

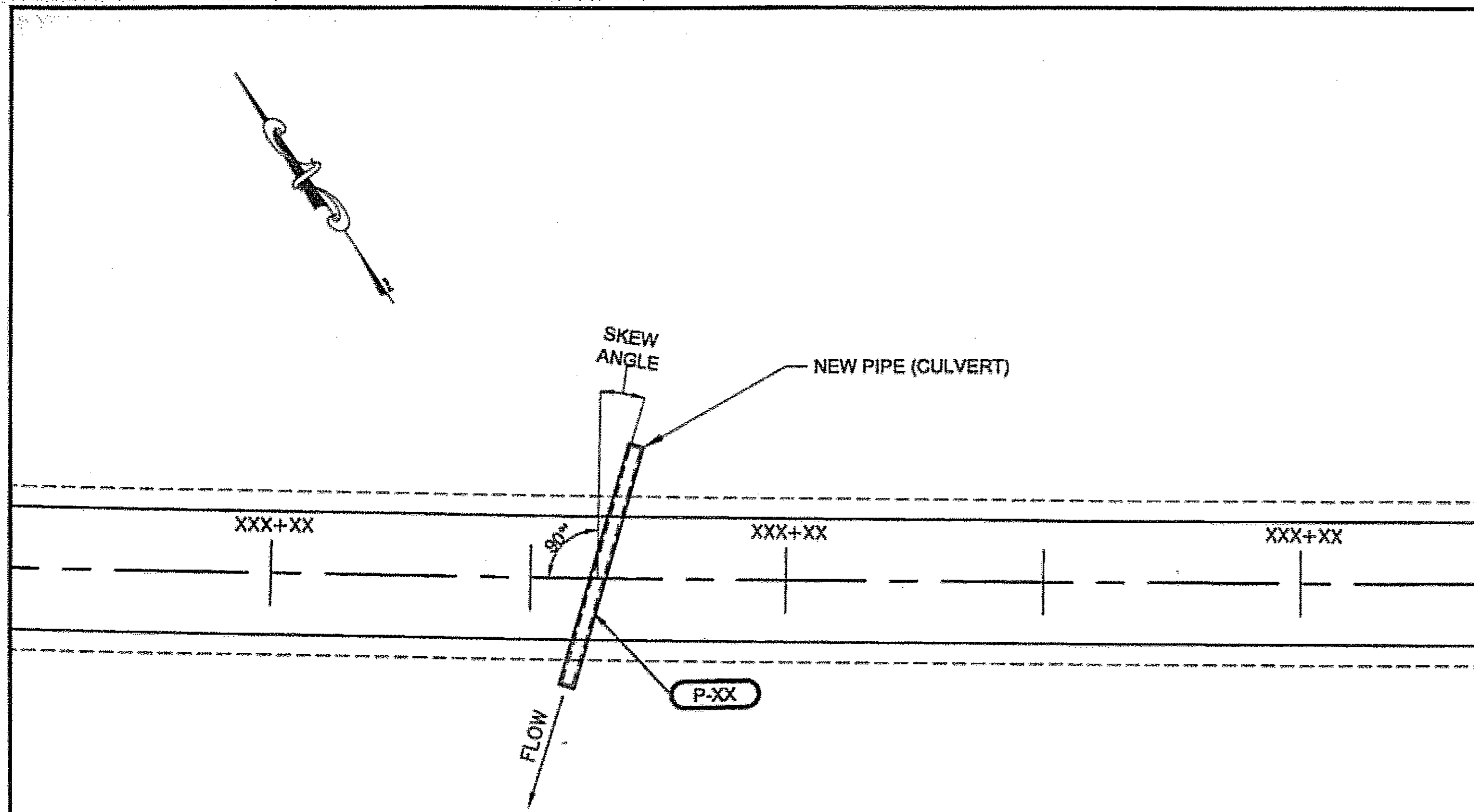
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

CULVERTS WORK SUMMARY

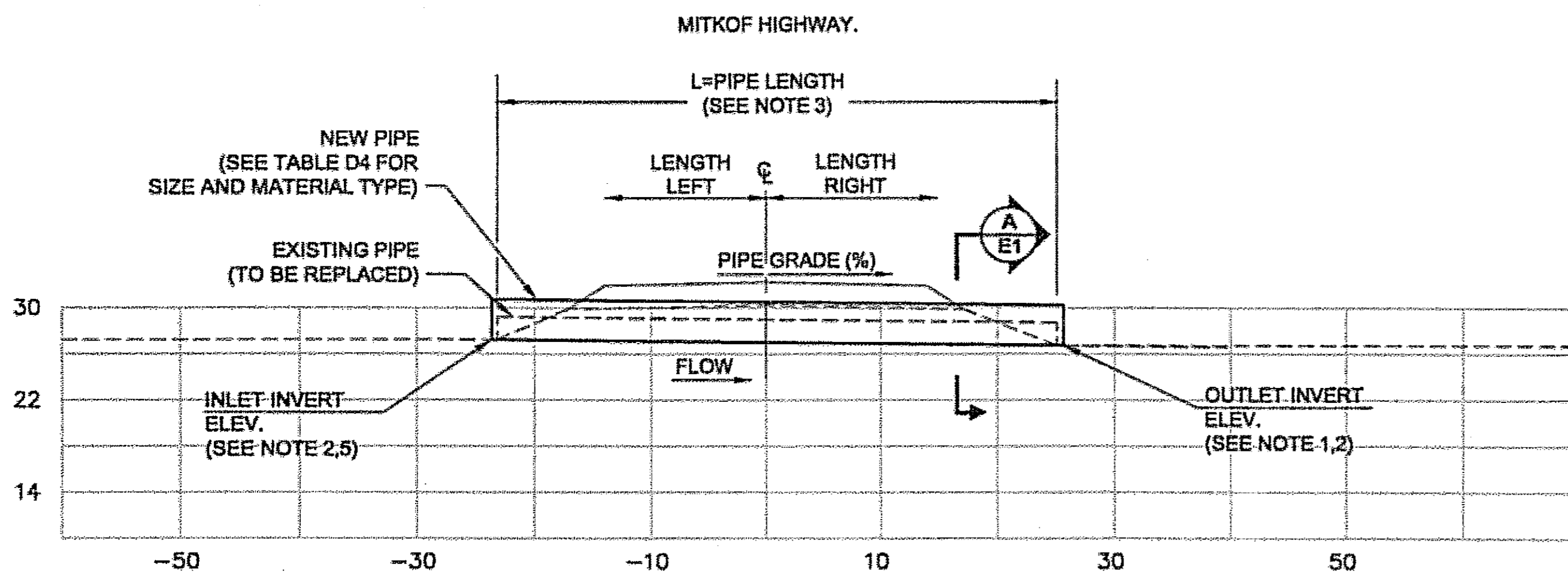
PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
D1	30



NEW & REPLACEMENT CULVERT PLAN

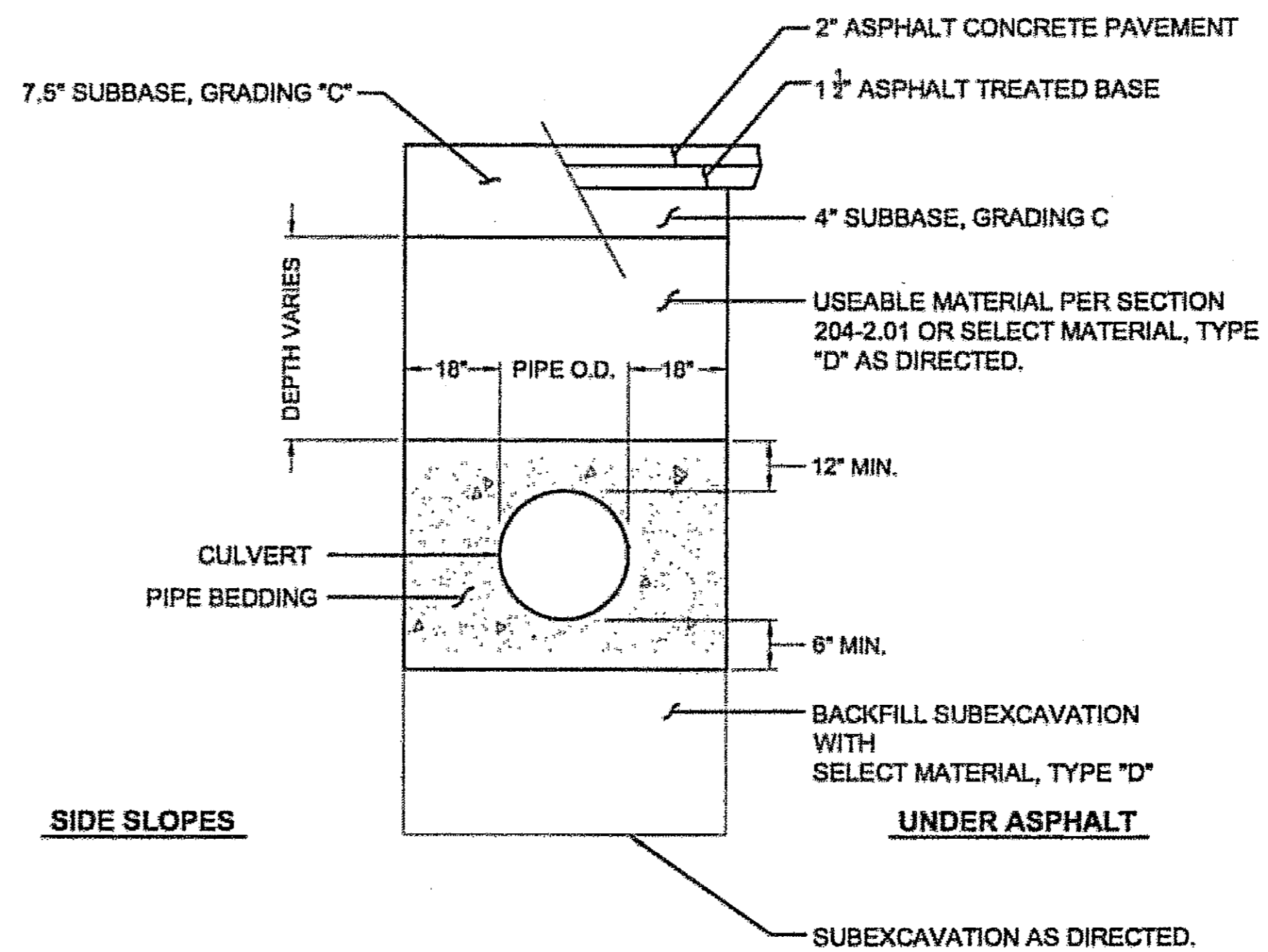


NEW & REPLACEMENT CULVERT PROFILE

* SEE NOTE 4

* PIPE INVERT = EXISTING STREAMBED

P-XX SECTION



SECTION A-A

TYPICAL CULVERT BEDDING/BACKFILL SECTION

GENERAL NOTES:

1. REPLACEMENT CULVERTS ARE TO BE INSTALLED AT SAME INVERT ELEVATION, GRADE, SKEW ANGLE, AND CHANNEL ALIGNMENT AS EXISTING PIPE UNLESS OTHERWISE DETAILED IN THESE PLANS OR AS DIRECTED.
2. FOR EXISTING PIPE REPAIR, AND /OR EXTENSIONS. SEE DETAIL ON SHEET E2.
3. NEW PIPE LENGTH SHALL MATCH EXISTING PIPE LENGTH, EXCEPT AS NOTED IN CULVERT PIPE EXTENSION, REPAIR OR REPLACEMENT SUMMARY TABLE SHEET D1, COLUMN 13. EXISTING PIPE LENGTHS CAN BE FOUND IN SAME SUMMARY TABLE, COLUMN 11.
4. FOR BURIED AND PARTIALLY BURIED EXISTING PIPES TO BE REPLACED, GRADES AND INVERTS ARE TO BE AS DIRECTED AND CONTINGENT UPON DITCH CLEANING OPERATIONS.
5. NEW END SECTIONS ARE TO BE INSTALLED ONLY AT INLET, AND ONLY AT DESIGNATED PIPES, SEE SHEET D1.

As-Built 5-11-07

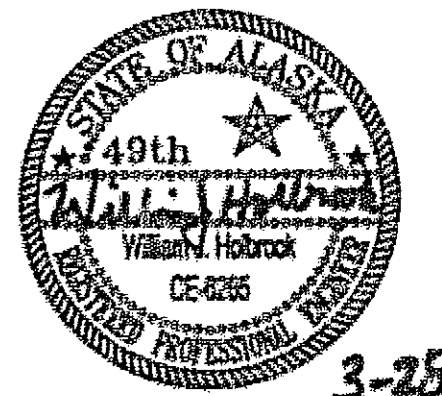
PATH:
Q:\Pag\68896\Planset\BRIDGE\E1-2_Det.dwg
Wed, 22/Mar/06 02:13PM rgranthom

TAB: E1		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE REPLACEMENT
PROJECT NO. 68896

CULVERT INSTALLATION DETAILS

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: B. BENNETT

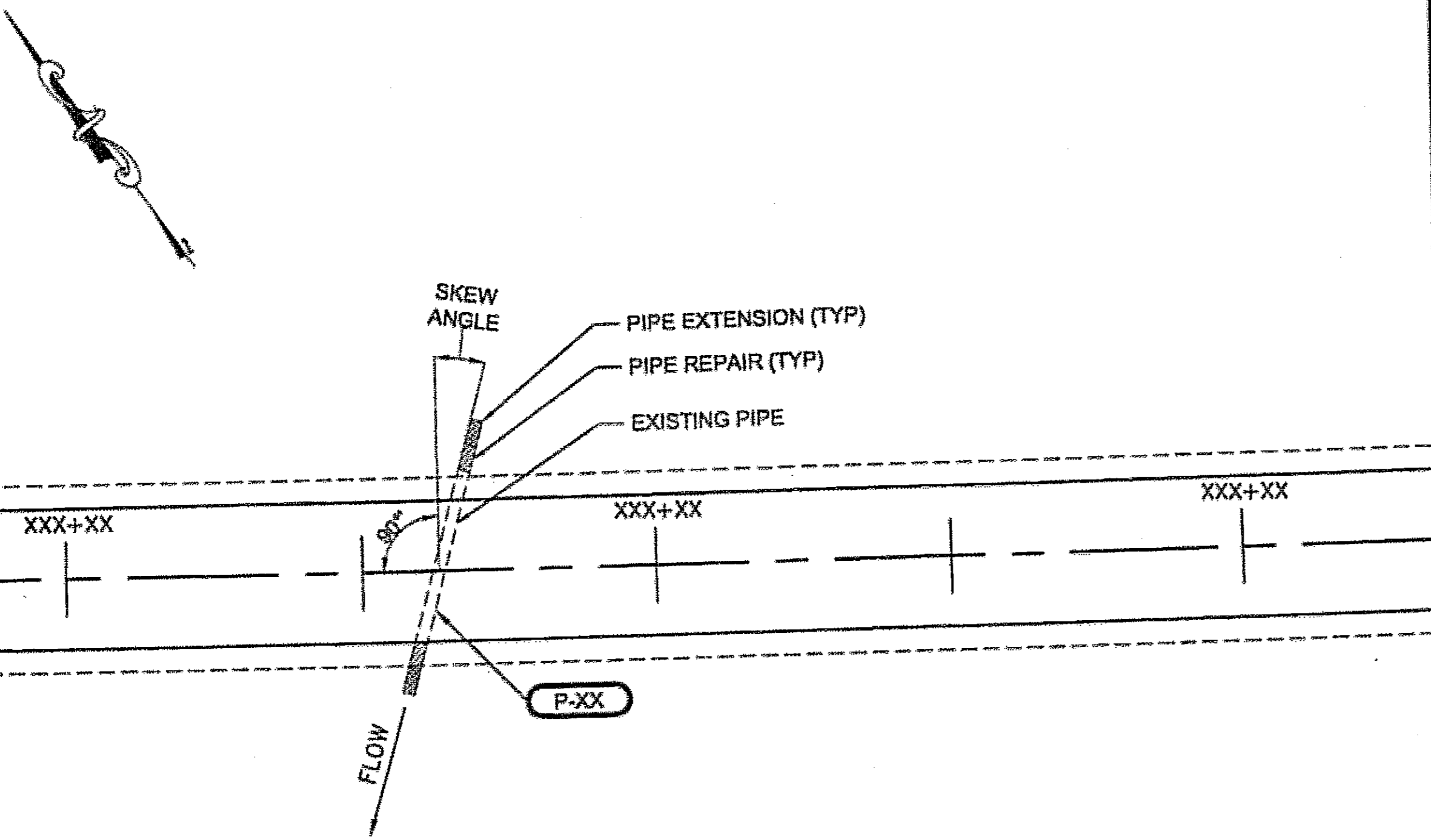
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SE REGION
PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE
REPLACEMENT
PROJECT NO. 68896
**CULVERT
INSTALLATION
DETAILS**

PROJECT DESIGNATION NUMBER

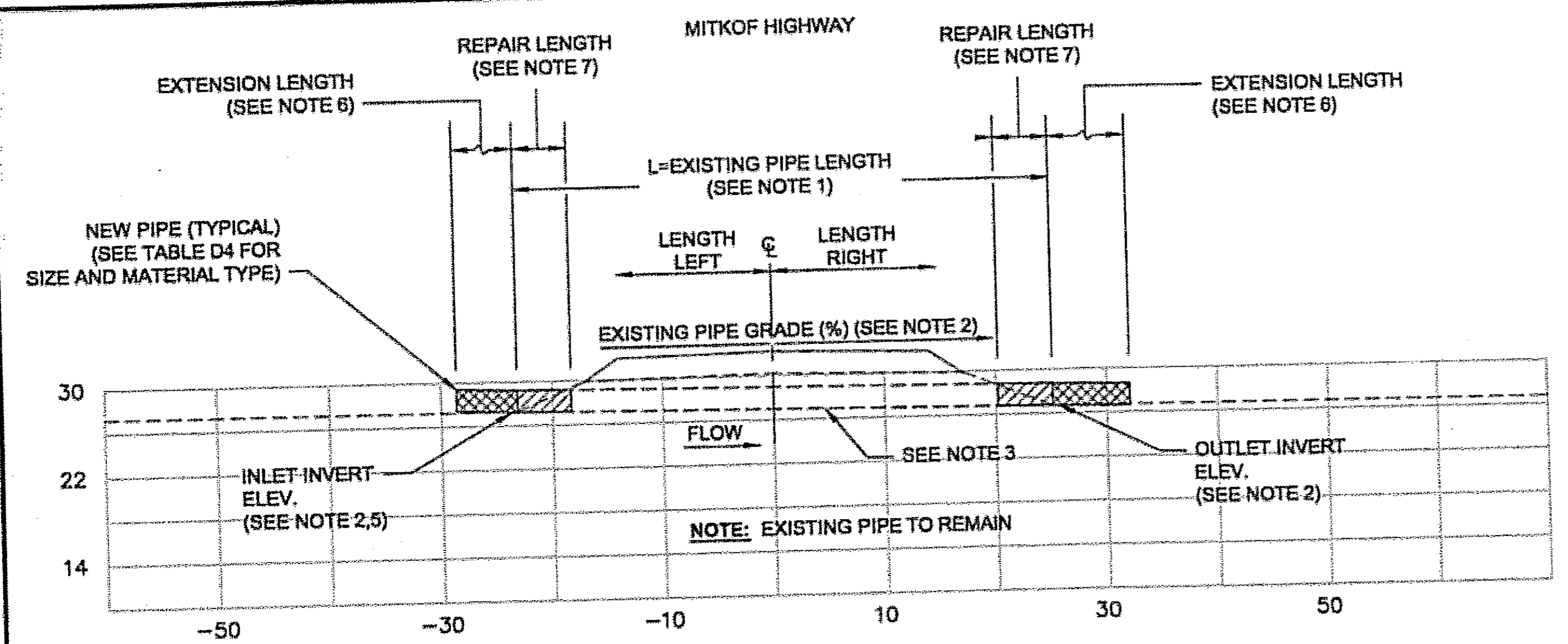
BR-0937(32) - 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E1	30

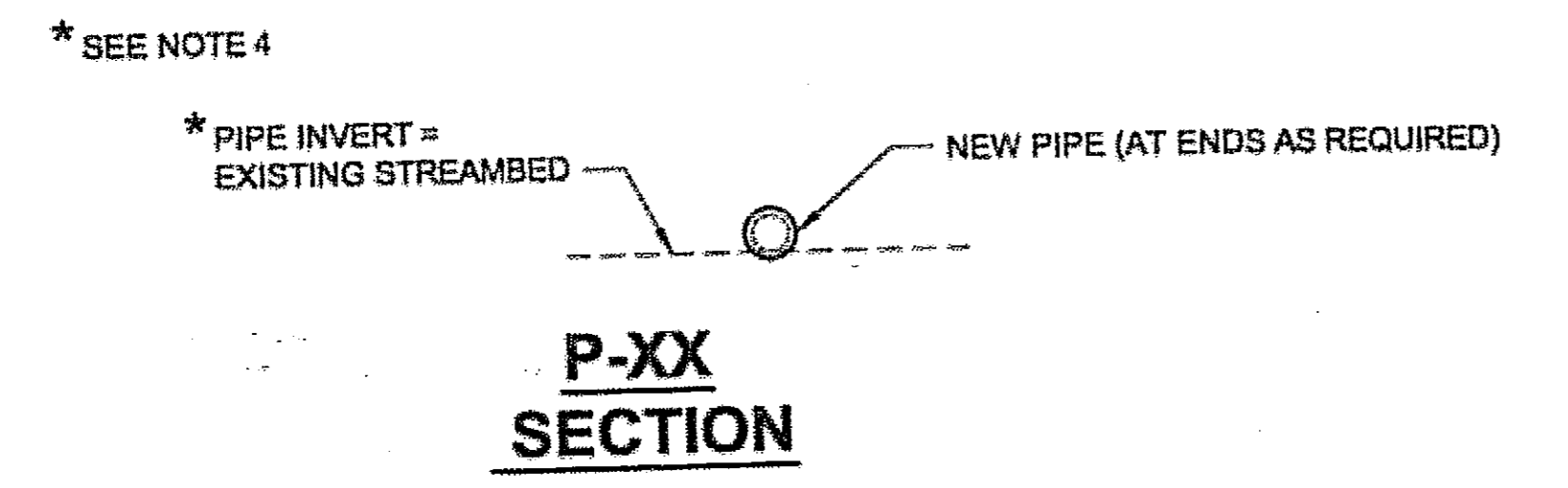
PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896
CULVERT REPAIR DETAILS



EXISTING CULVERT REPAIR / EXTENSION PLAN



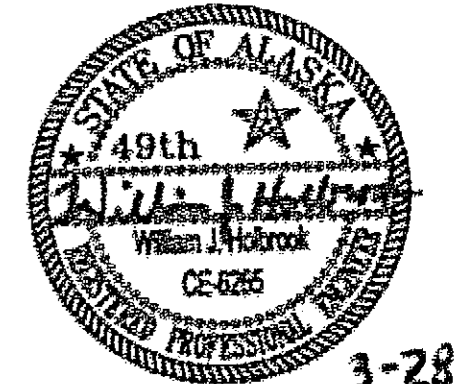
EXISTING CULVERT REPAIR/EXTENSION PROFILE



GENERAL NOTES:

1. SEE EXISTING PIPE LENGTHS IN SUMMARY TABLE SHEET D1, COLUMN 11.
2. EXISTING PIPE REPAIR, EXTENSIONS AND NEW END SECTION INSTALLATIONS SHALL MAINTAIN EXISTING PIPE GRADE, SKEW ANGLE AND CHANNEL ALIGNMENT UNLESS OTHERWISE DIRECTED.
3. EXISTING PIPE SHALL REMAIN, EXCEPT AS NOTED IN CULVERT PIPE EXTENSION, REPAIR OR REPLACEMENT SUMMARY TABLE SHEET D1.
4. BURIED AND PARTIALLY BURIED EXISTING PIPES HAVING ENDS TO BE REPAIRED OR EXTENDED SHALL BE FLUSHED CLEANED AS PART OF PIPE RESTORATION OPERATIONS.
5. NEW END SECTIONS SHALL BE INSTALLED AT INLET LOCATIONS NOTED IN TABLE SHEET D1.
6. EXISTING PIPES SHALL BE EXTENDED AT LOCATIONS CALLED FOR IN ACTION COLUMN OF SUMMARY TABLE D1.
7. EXISTING PIPES SHALL BE TRIMMED BACK AND PORTIONS OF PIPE AT EITHER END REPLACED AT LOCATIONS CALLED FOR IN ACTION COLUMN OF SUMMARY TABLE D1.

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: B. BENNETT

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

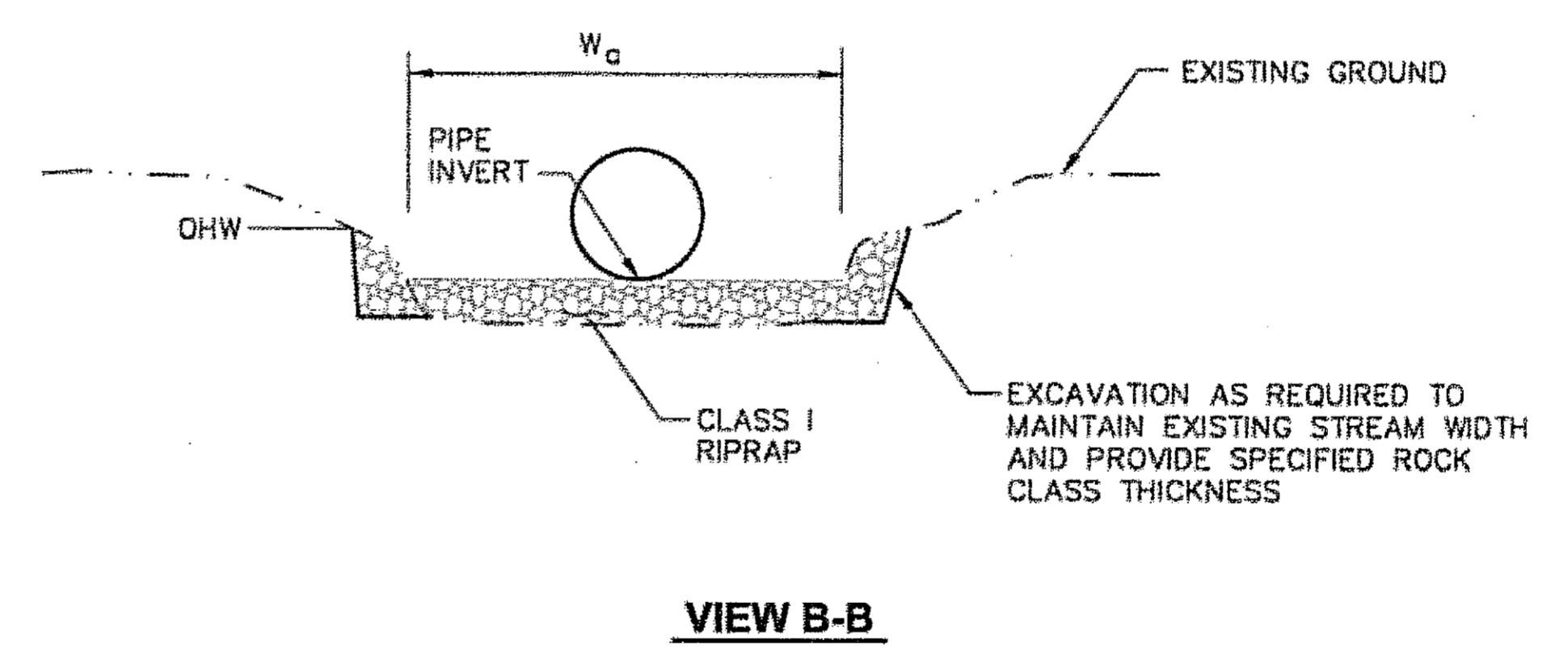
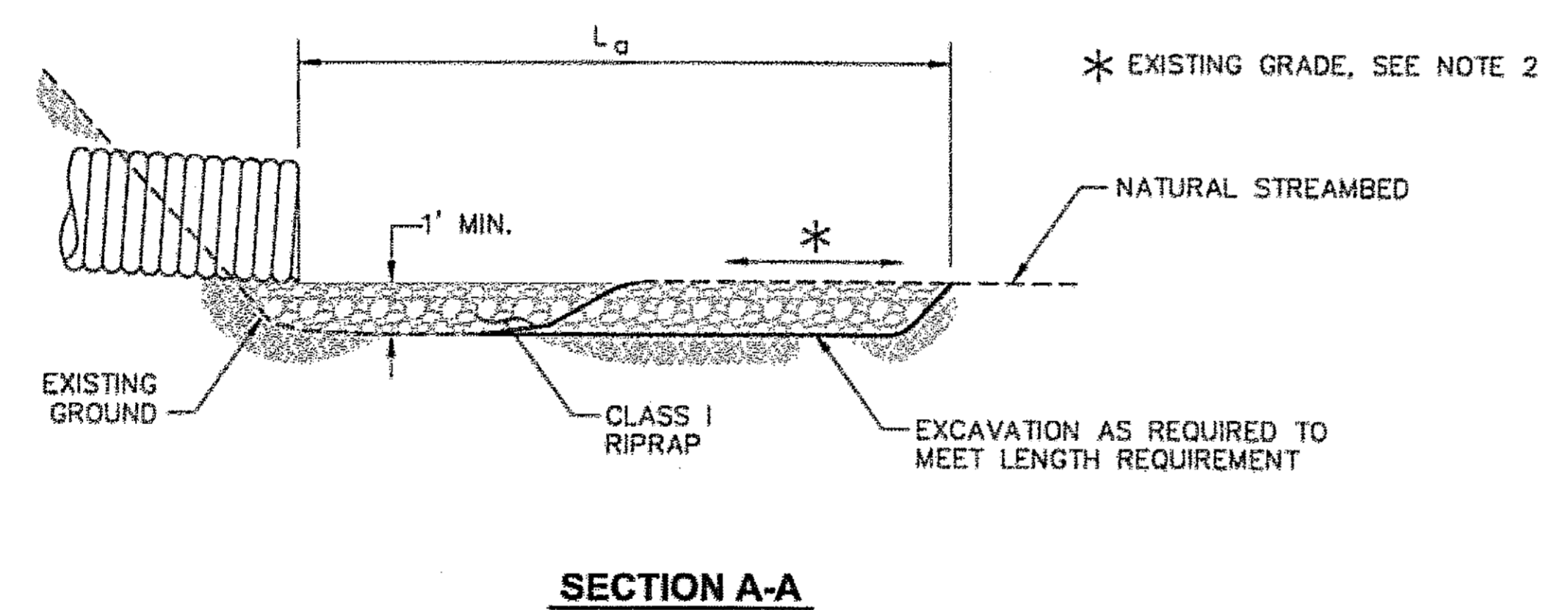
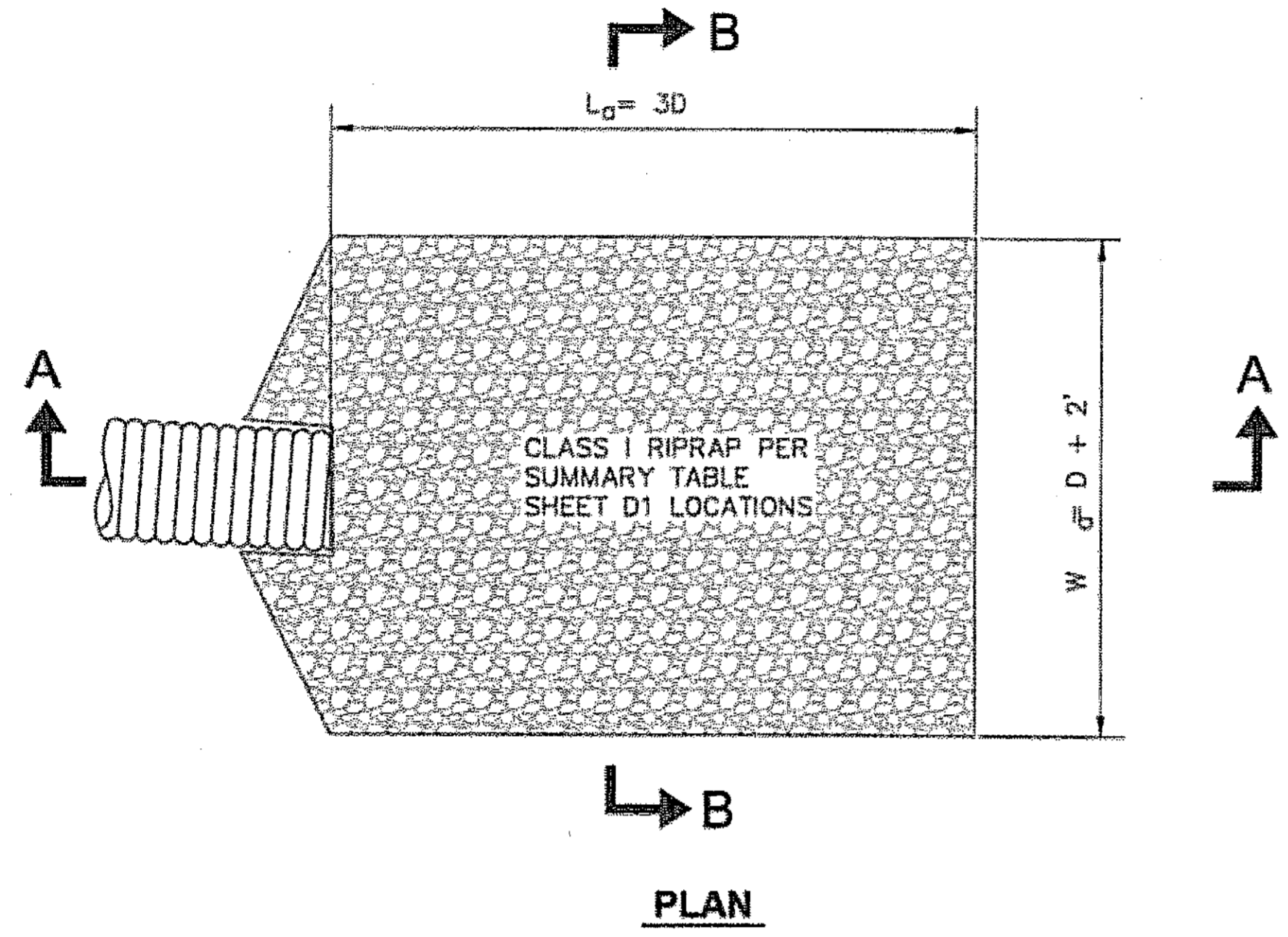
CULVERT REPAIR DETAILS

PROJECT DESIGNATION NUMBER
 BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E2	30

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

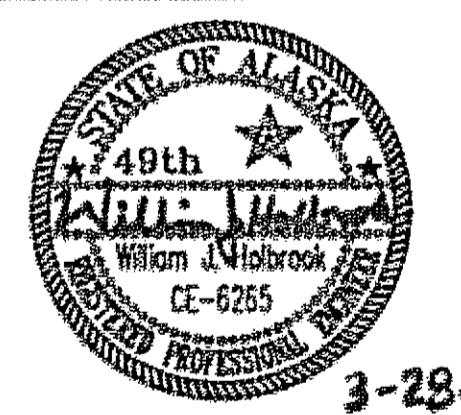
PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896
CULVERT DETAILS



RIPRAP LINED OUTLET APRON DETAIL
 N.T.S.

- NOTES:**
1. "L_a" = LENGTH OF APRON. "W_a" = WIDTH OF APRON.
 2. APRON SHALL BE SET AT EXISTING STREAM GRADE AND ALIGNMENT.
 3. OHW = ORDINARY HIGH WATER.
 4. "D" = PIPE DIAMETER.
 5. FOR LOCATIONS SEE CULVERT PIPE EXTENSION, REPAIR OR REPLACEMENT SUMMARY SHEET D1.

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: B. BENNETT

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

CULVERT DETAILS

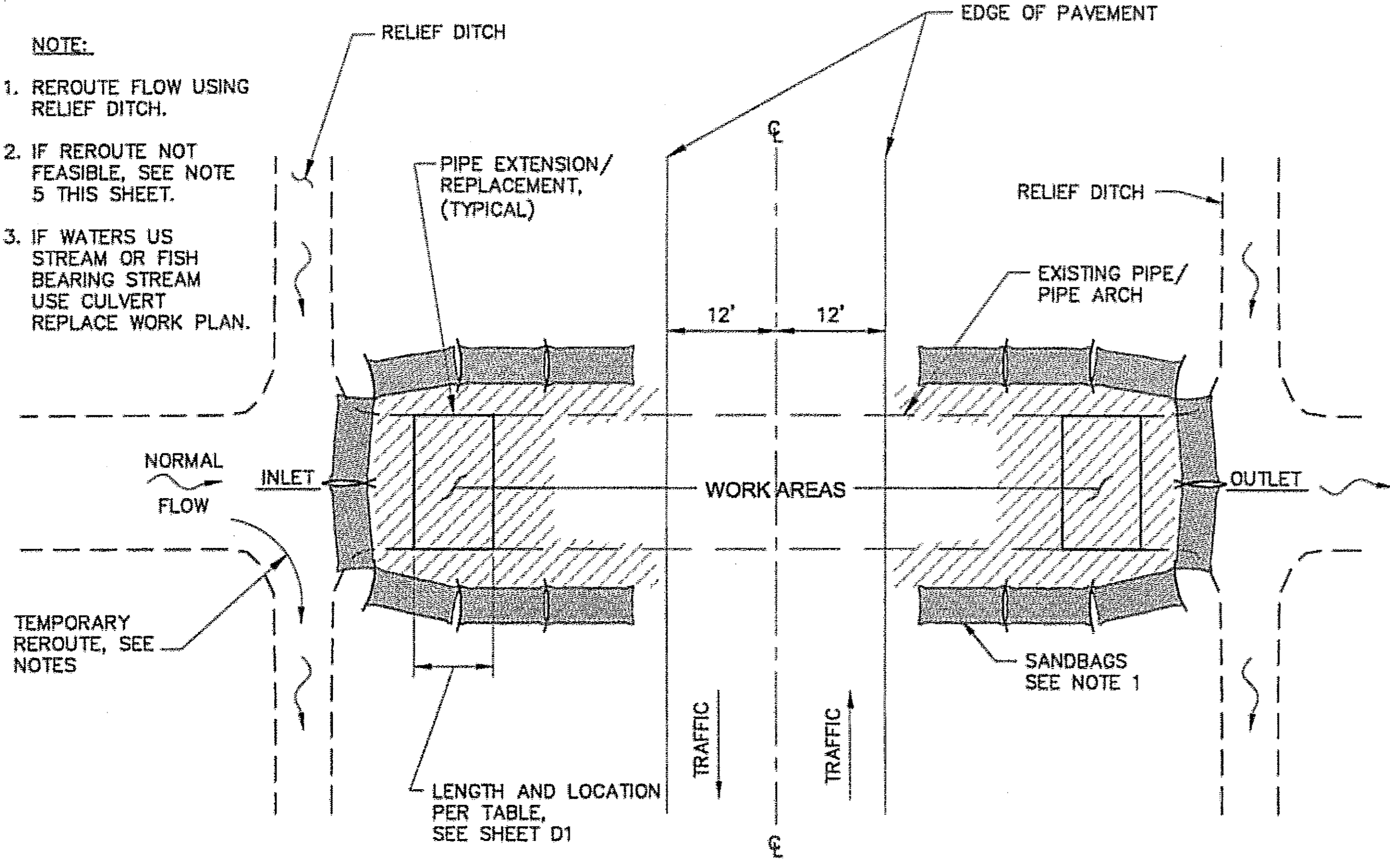
PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

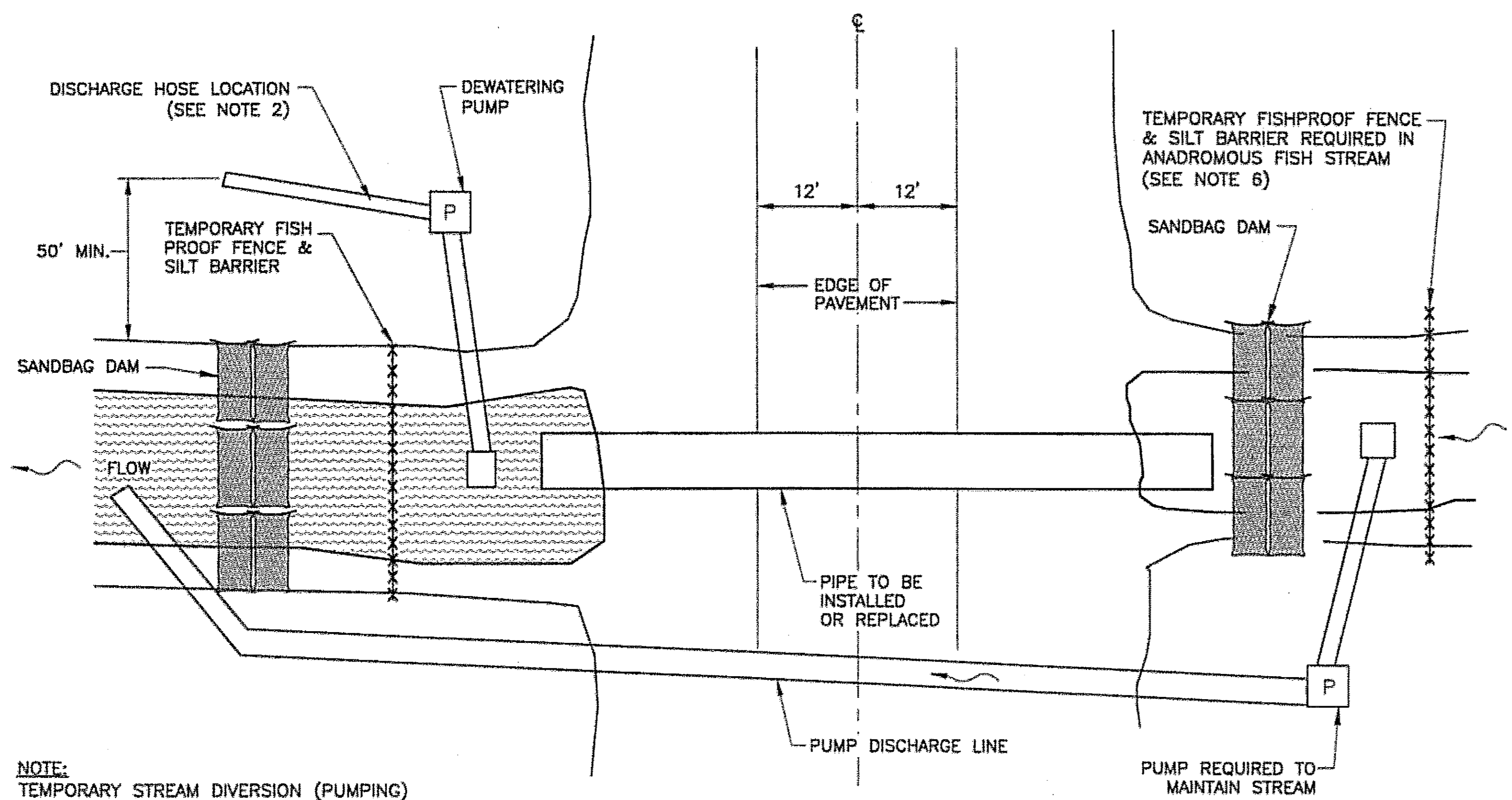
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E3	30

As-Built 5-11-07

- NOTE:**
1. REROUTE FLOW USING RELIEF DITCH.
 2. IF REROUTE NOT FEASIBLE, SEE NOTE 5 THIS SHEET.
 3. IF WATERS US STREAM OR FISH BEARING STREAM USE CULVERT REPLACE WORK PLAN.



**CONSTRUCTION WORK PLAN
CULVERT REPAIR***

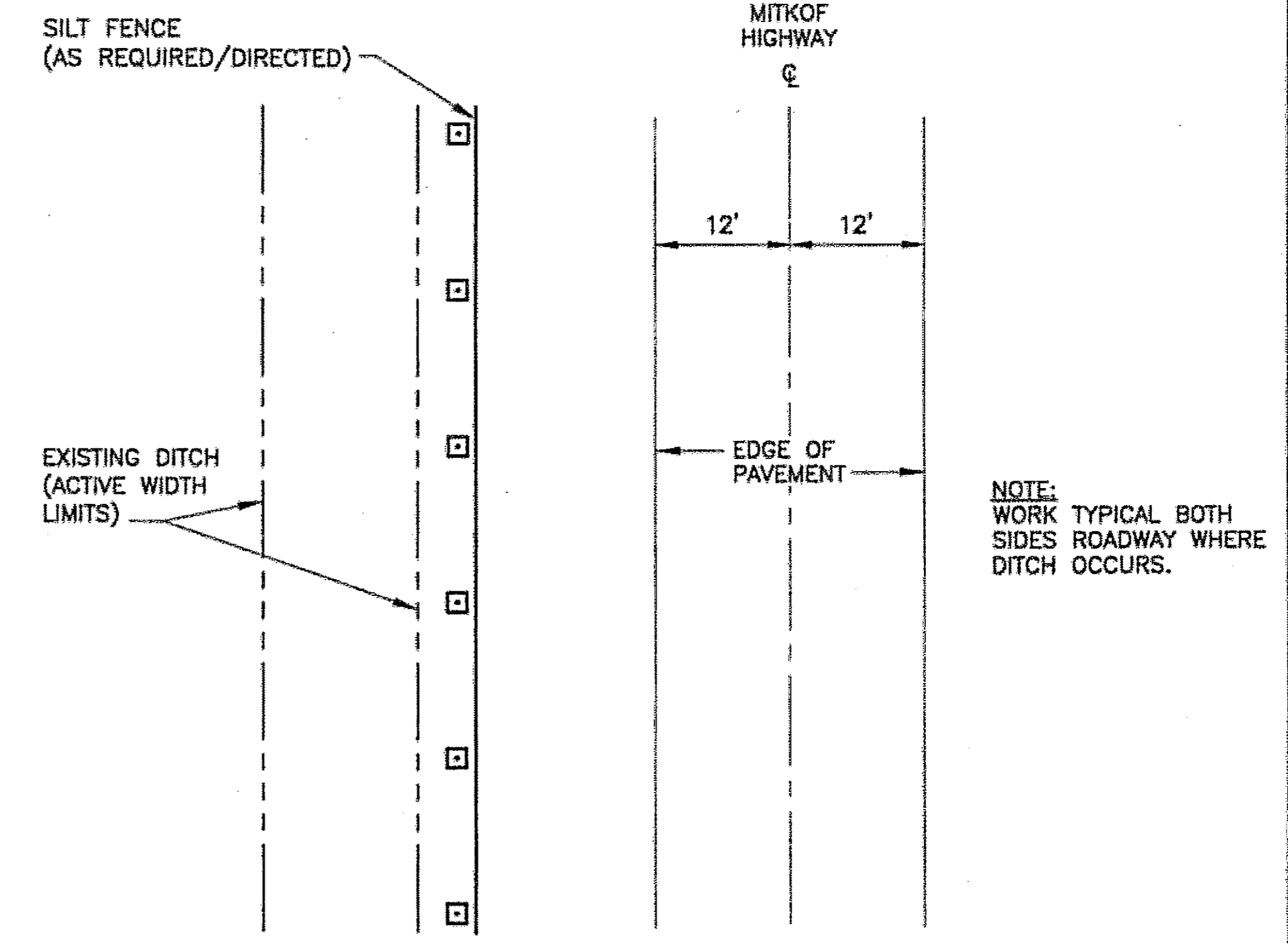


**CONSTRUCTION WORK PLAN
CULVERT REPLACE**

NOTE:
TEMPORARY STREAM DIVERSION (PUMPING) METHOD ILLUSTRATED. SEE NOTE 5.

NOTES:

1. A WORK PLAN BASED ON THESE DETAILS AND THE FISH AND GAME PERMIT (SEE APPENDIX B) SHALL BE SUBMITTED FOR APPROVAL BEFORE WORKING IN ANY FISH STREAM OR WATERS OF U.S. THE PLAN WILL INCLUDE MATTING AND NATIVE GRASS MIX ABOVE ORDINARY HIGH WATER AND IN ALL DISTURBED AREAS. THE STREAM FLOW SHALL BE DIVERTED TO ONE OF THE PIPES WHILE WORKING ON THE OTHER. A COMBINATION OF SILT FENCE, STRAW BALES, PLASTIC SHEETS AND SANDBAGS SHALL BE USED TO MINIMIZE IMPACTS TO THE STREAM. SANDBAGS AND PLASTIC SHEETS SHALL BE USED TO DIRECT FLOW AWAY FROM THE WORK AREA.
2. IF DEWATERING PUMPS ARE USED, DISCHARGE SHALL BE SITUATED A MINIMUM OF 50' FROM STREAMBED HIGHWATER LINE. THE 50' SEPARATION MUST BE VEGETATED; AND THE DISCHARGE END SHALL BE RELOCATED PERIODICALLY AS REQUIRED. PUMP INTAKE MUST BE OPERATED, AND MAINTAINED TO PREVENT FISH ENTRAPMENT, ENTRAINMENT, OR INJURY WITH THE USE OF PERFORATED PLATE AND WOVEN WIRE HAVING A MESH SIZE NOT GREATER THAN 3/32" OR PROFILE BAR AND WEDGEWIRE HAVING OPENINGS NOT GREATER THAN 1.75mm. APPROACH VELOCITIES SHALL NOT EXCEED A PASSIVE VELOCITY OF 0.2 FEET PER SECOND (FPS) OR AN ACTIVE VELOCITY OF 0.4 FPS.
3. REVEGETATE STREAM BANKS AND ALL UPLAND AREAS DISTURBED BY CONSTRUCTION ACTIVITY PER SECTIONS 618, 621 AND 641.
4. PROVIDE NOTICE AT LEAST 5 WORKING DAYS IN ADVANCE OF IN WATER WORK.
5. TEMPORARY STREAM DIVERSION METHOD (PUMPING) ILLUSTRATED. OTHER STREAM DIVERSION METHODS ACCEPTABLE SUBJECT TO APPROVAL.
6. SEE CULVERT EXTENSION REPAIR, OR REPLACEMENT SUMMARY SHEET D1, FOR LIST OF ALL WATERS OF THE US, OR FISH CULVERTS.



**CONSTRUCTION WORK PLAN
RAISED ROADWAY FILL AREAS**

PATH:
O:\Pag\68896\Planset\BRIDGE\E3-4_DTL.dwg
Wed, 22/Mar/06 02:13PM rgrantham

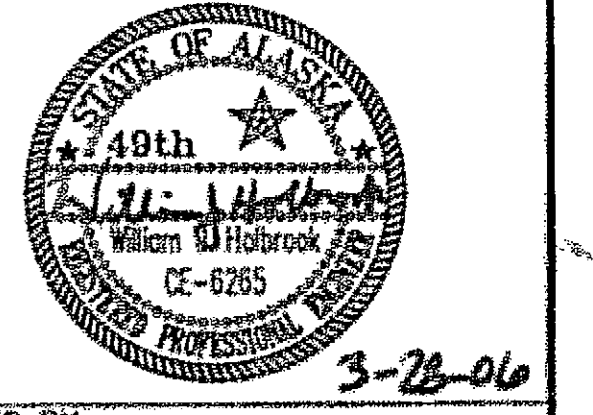
TAB: E4

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE REPLACEMENT
PROJECT NO. 68896

**CULVERT
CONSTRUCTION
WORK PLANS**

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN
DRAWN BY: B. BENNETT/R. GRANTHAM

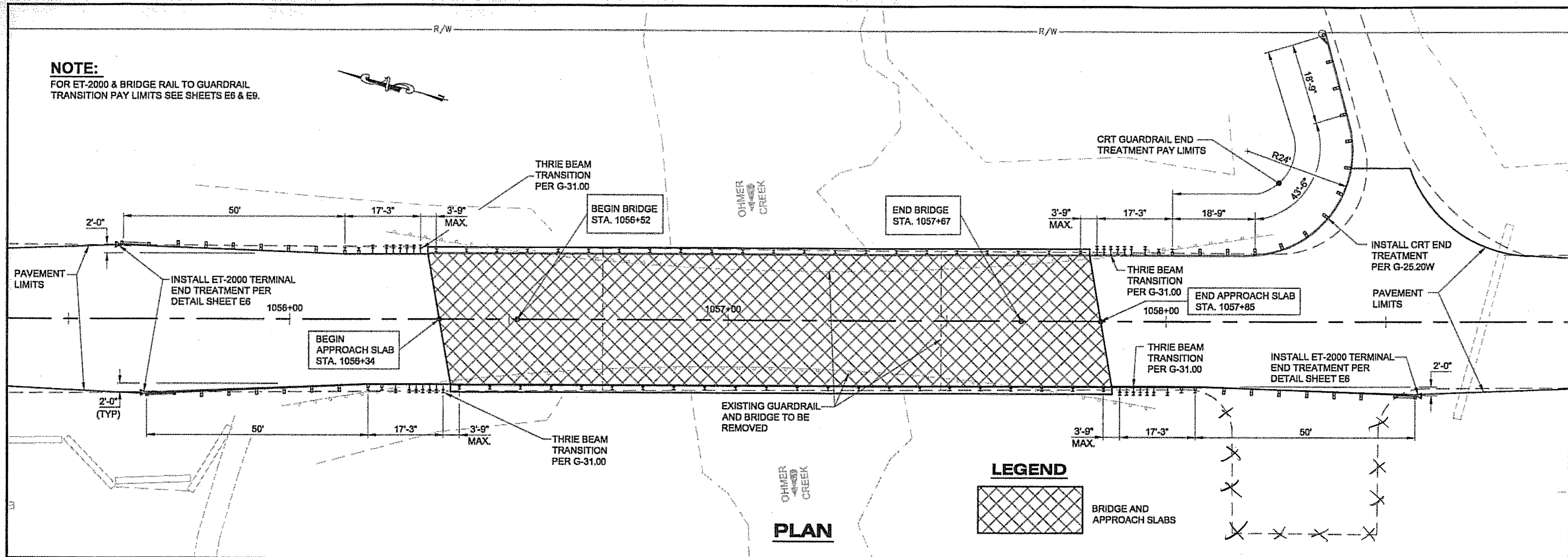
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SE REGION
PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE
REPLACEMENT
PROJECT NO. 68896
**CULVERT
CONSTRUCTION
WORK PLANS**

PROJECT DESIGNATION NUMBER
BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E4	30

As-Built 5-11-07 00

NOTE:
FOR ET-2000 & BRIDGE RAIL TO GUARDRAIL
TRANSITION PAY LIMITS SEE SHEETS E6 & E9.



LEGEND



PLAN

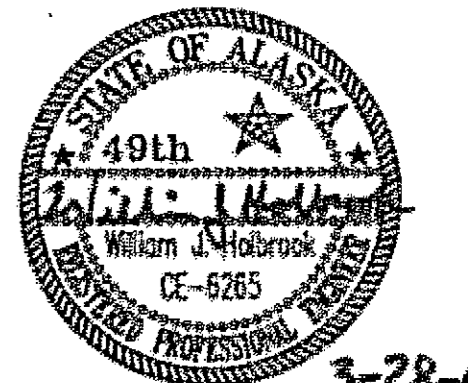
PATH:
Q:\Psg\68896\Plans\BRIDGE\E5_Guardrail.dwg
Wed, 22/Mar/06 02:14PM rgrantham
TAB: E5

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE REPLACEMENT
PROJECT NO. 68896

**GUARDRAIL PLAN
AT OHMER CREEK BRIDGE**

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: DR DODGE/R. GRANTHAM

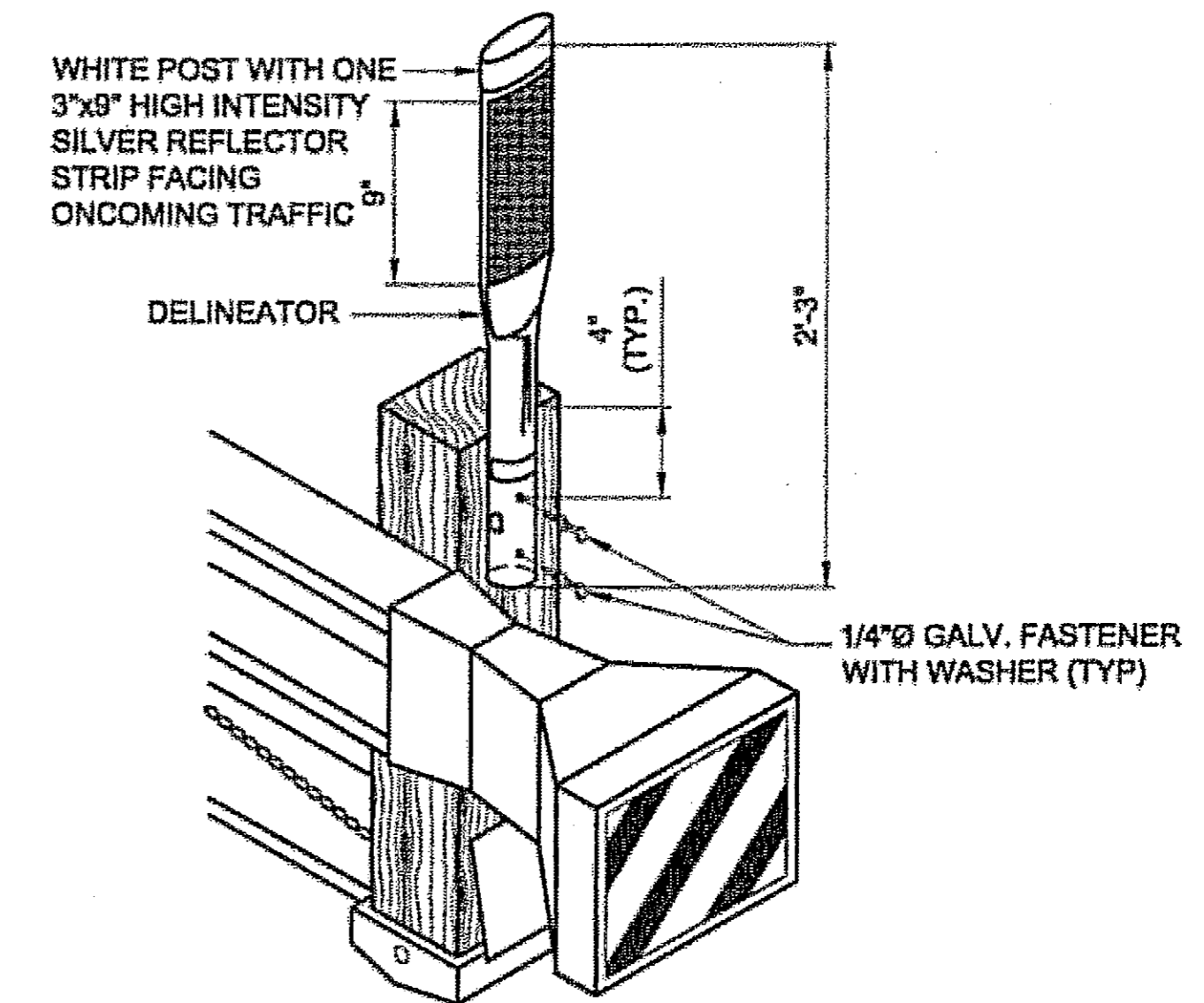
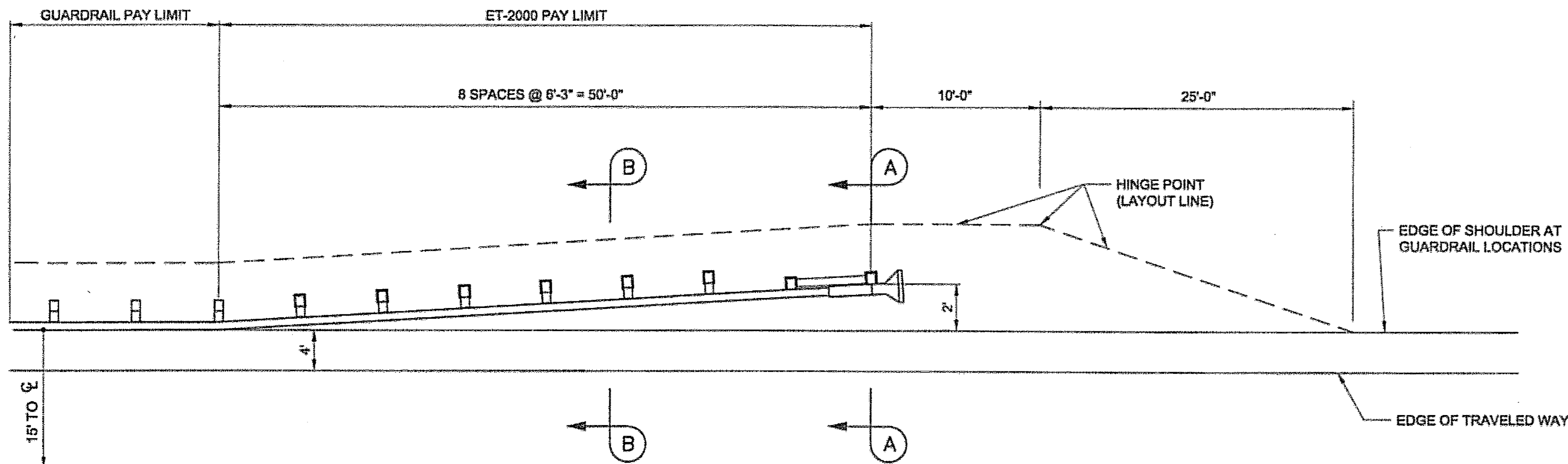
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SE REGION
PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE
REPLACEMENT
PROJECT NO. 68896
**GUARDRAIL PLAN
AT OHMER CREEK
BRIDGE**

PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E5	30

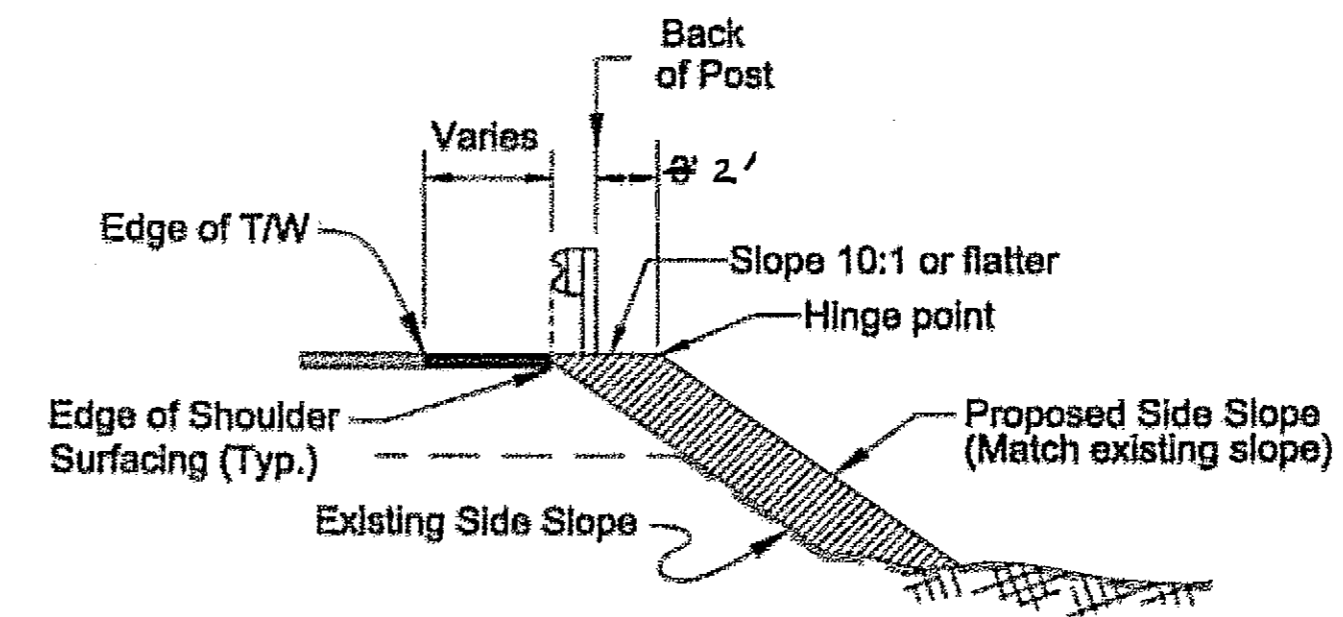
As-Built 5-12-07



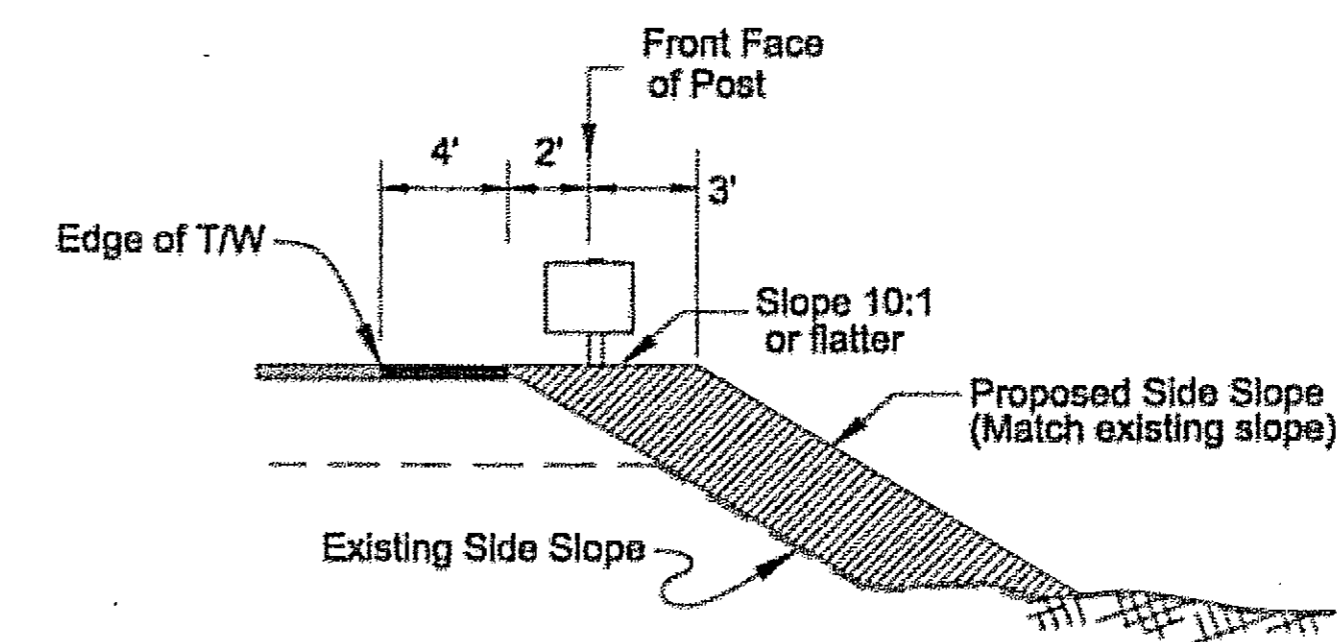
DELINEATOR NOTES:

1. EACH ET-2000 GUARDRAIL END SHALL HAVE ONE DELINEATOR.
2. DELINEATOR SHALL HAVE WHITE REFLECTIVE SHEETING.
3. STEEL POST GUARDRAIL SHALL BE PRE-DRILLED PRIOR TO SECURING DELINEATOR WITH SELF-TAPPING SCREWS.
4. DELINEATOR SHALL BE INCIDENTAL TO ITEM 606(11).

FLEXIBLE GUARDRAIL DELINEATOR
NO SCALE



SECTION B-B
NO SCALE



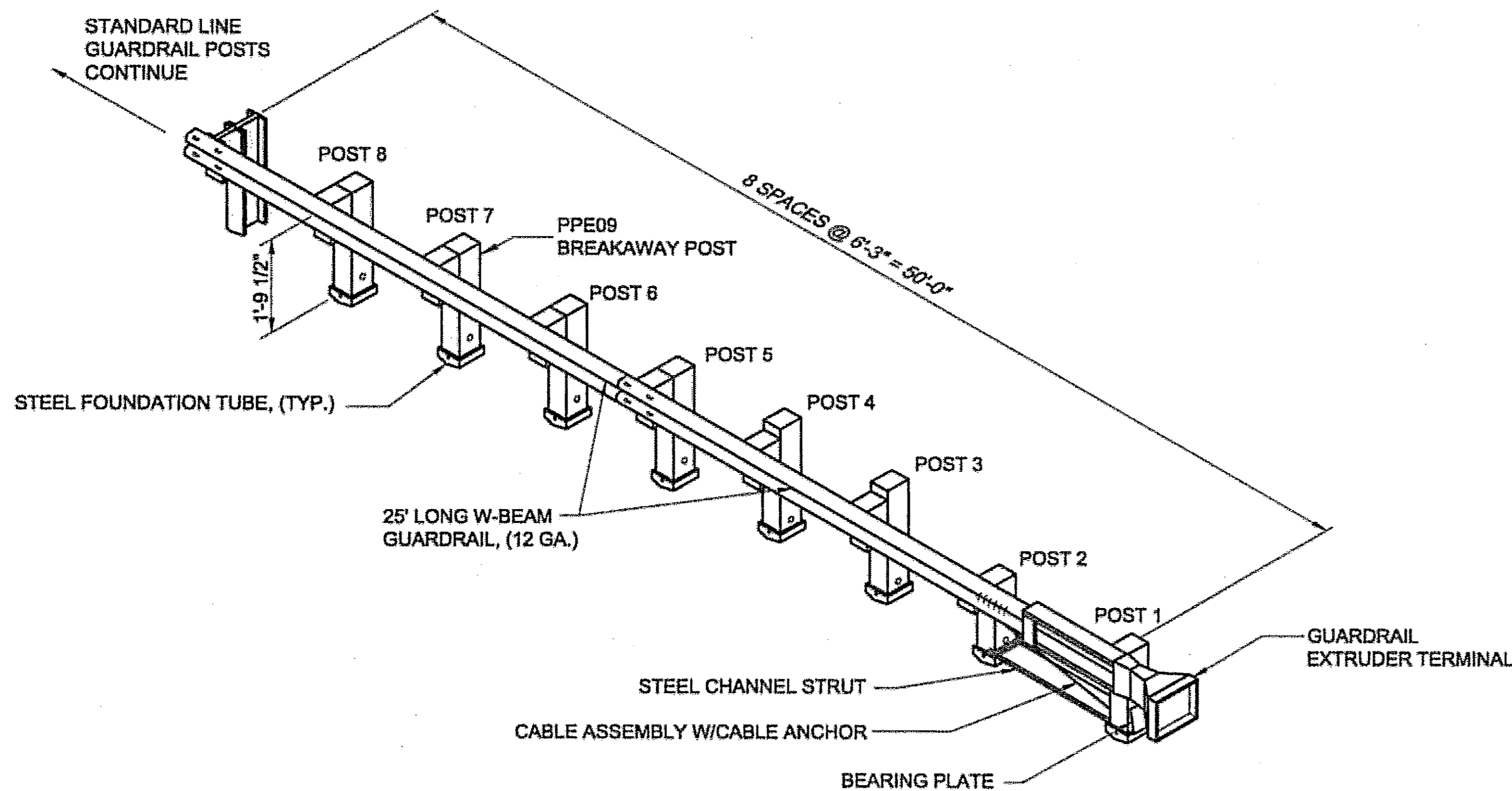
SECTION A-A
NO SCALE

As-Built 5-11-07

NOTES:

1. INSTALLATION AND MATERIALS PER ET-2000 MANUFACTURER RECOMMENDATION, DIRECTION AND SUPPLY.
2. SEE STANDARD DRAWING G-20.10 FOR ADDITIONAL INFORMATION.

ET-2000 LAYOUT PLAN
NO SCALE



ET-2000 TERMINAL DETAILS
NO SCALE

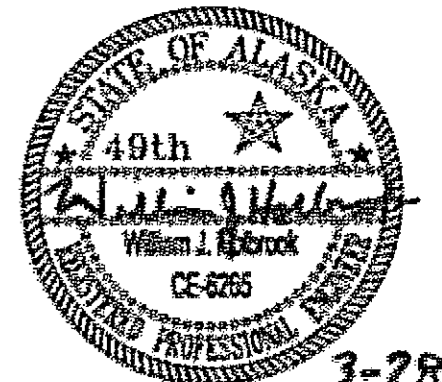
PATH: Q:\Pag\68896\PlanSet\BRIDGE\E6_ET2000.dwg
Wed, 22/Mar/06 02:14PM rgrantham
TAB: E6

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE REPLACEMENT
PROJECT NO. 68896

**ET-2000
GUARDRAIL DETAILS**

DESIGNED BY: B. HOLBROOK



3-28-06

CHECKED BY:

DRAWN BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SE REGION
PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE
REPLACEMENT
PROJECT NO. 68896

**ET-2000
GUARDRAIL DETAILS**

PROJECT DESIGNATION NUMBER

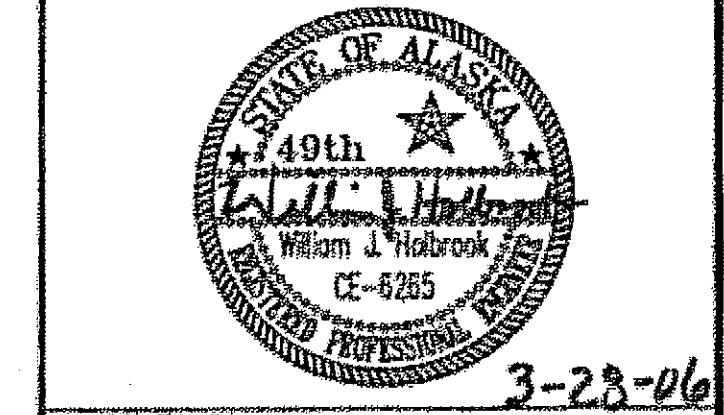
BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E6	30

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896
ESCP AT OHMER CREEK BRIDGE

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: DR DODGE/R. GRANTHAM
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896
**ESCP AT OHMER
 CREEK BRIDGE**

PROJECT DESIGNATION NUMBER
 BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E7	30

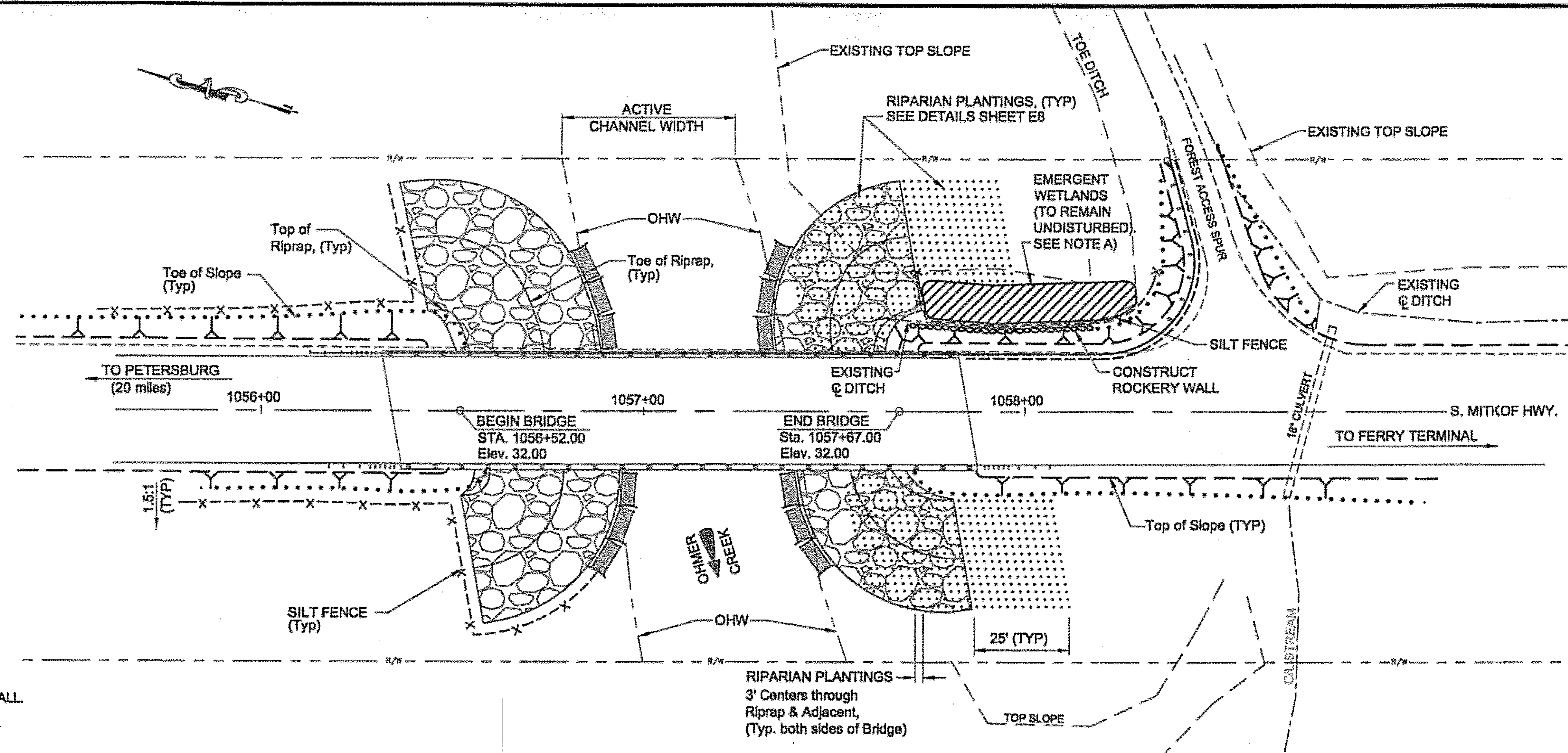
LEGEND

- CLASS II RIPRAP
- EMBANKMENT
- PLANTINGS (TYP)
- SILT FENCE
- SANDBAG WALL
- EMERGENT WETLANDS

**BRIDGE CONSTRUCTION
 ENVIRONMENTAL COMMITMENTS**

NOTE:

- A. PERMIT REQUIRES NO FILL BE PLACED WITHIN SHADED AREA. ROCKERY WILL BE REQUIRED IN THIS AREA AS SHOWN TO PREVENT IMPACTS TO WETLANDS.
- B. ISOLATE WORK AREAS BELOW ORDINARY HIGH WATER (OHW) WITH SANDBAG WALL. DOT&PF WILL REMOVE FISH FROM AREAS.
- C. DEWATER WORK AREAS BY PUMPING TO VEGETATED AREA AT LEAST 50' FROM OHMER CREEK.

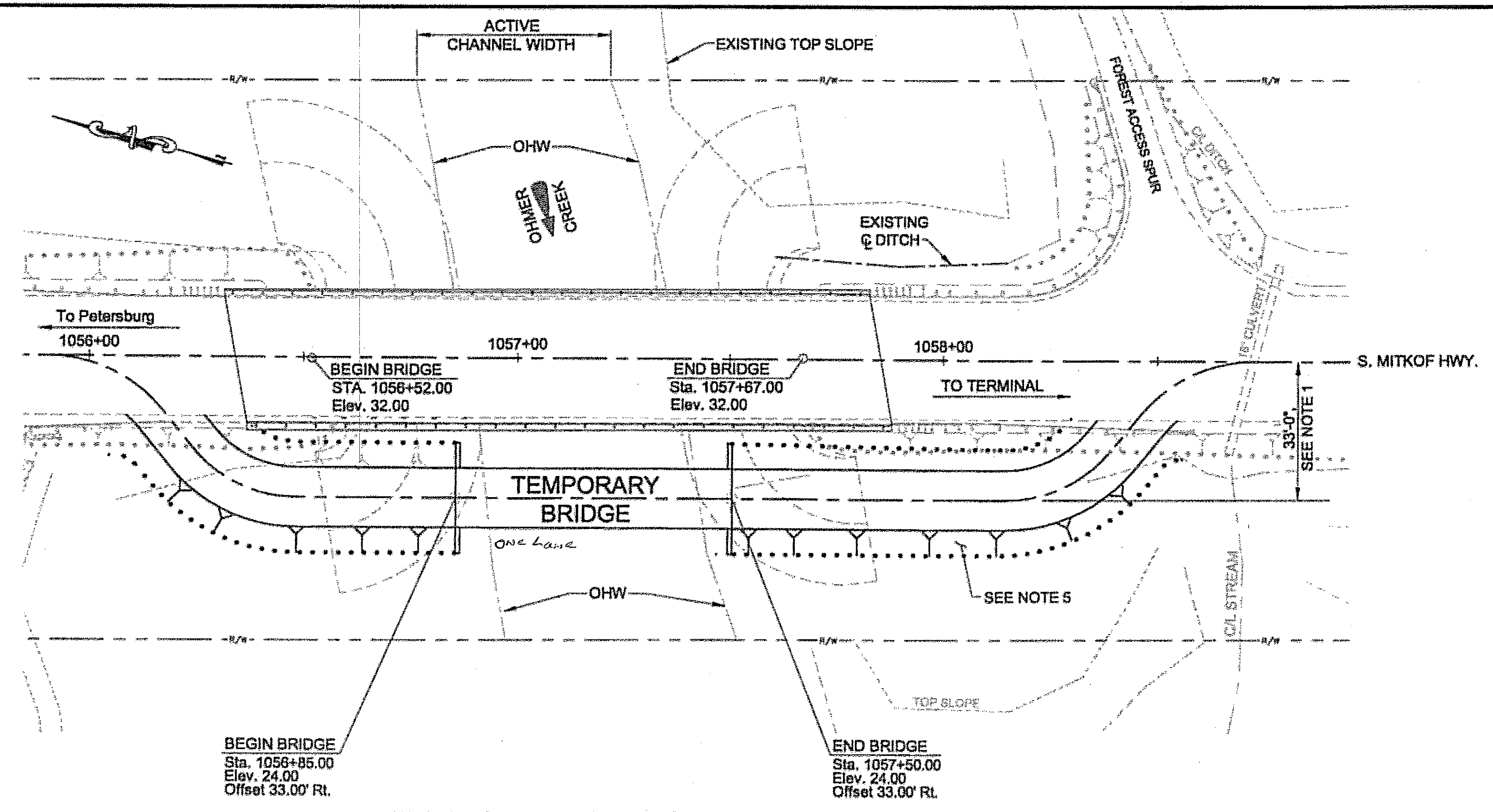


FINISH BRIDGE ESCP PLAN

**TEMPORARY CROSSING
 ENVIRONMENTAL COMMITMENTS**

NOTES:

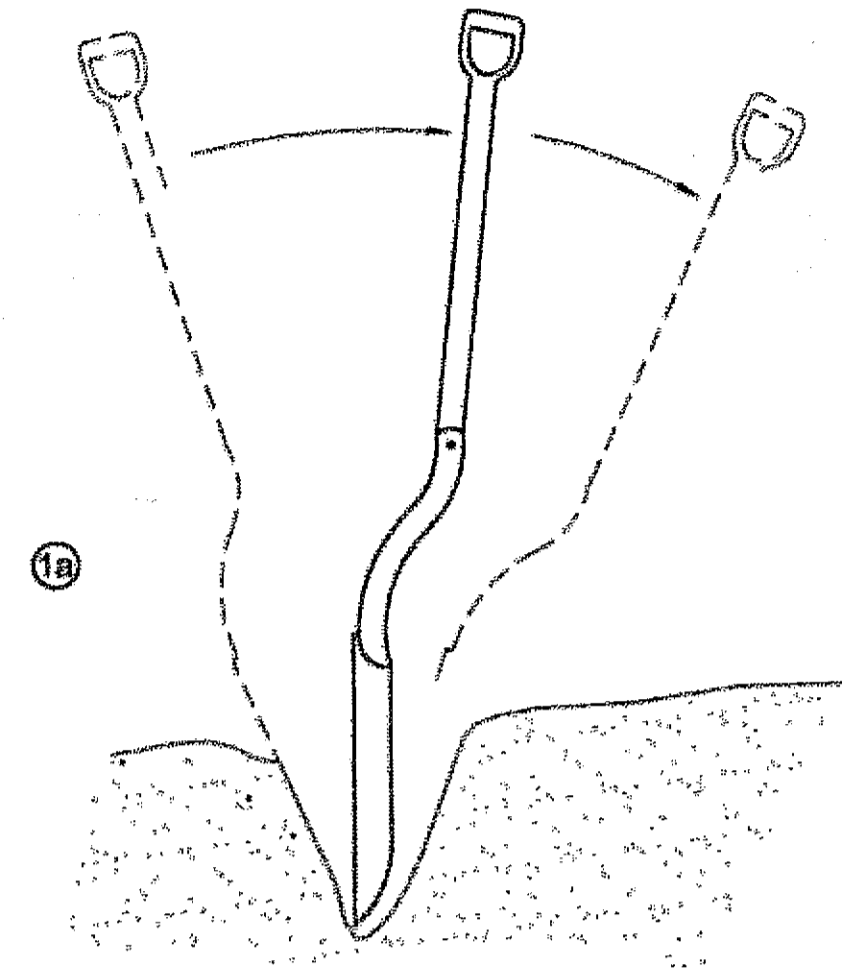
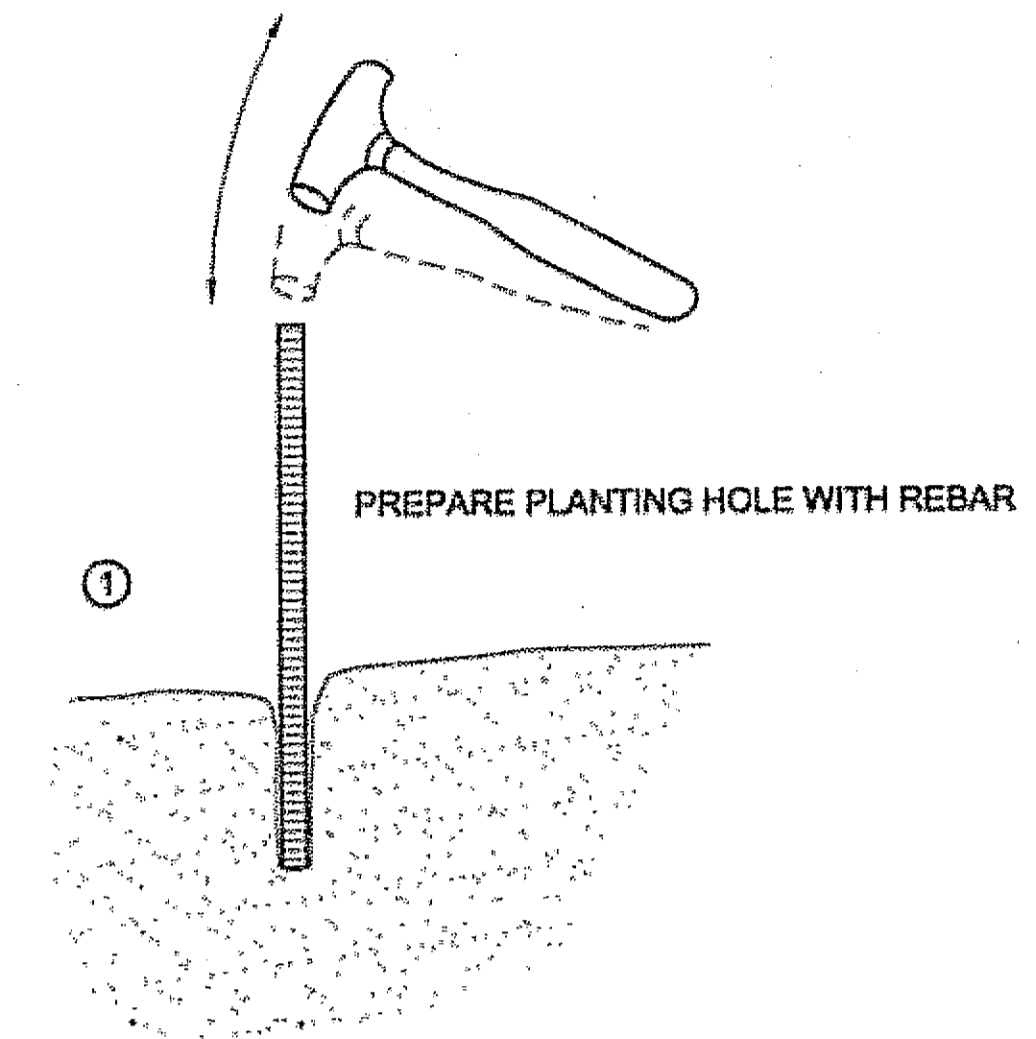
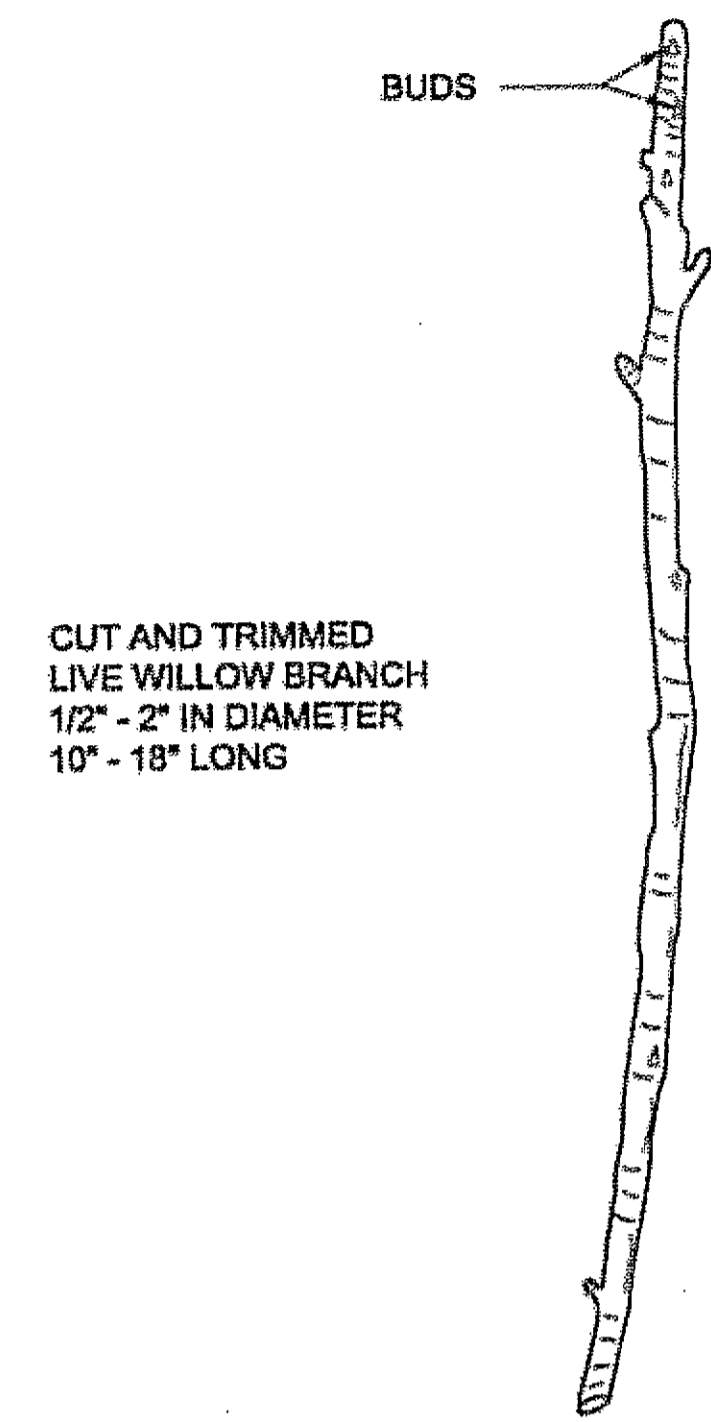
1. DISTANCE FROM C TEMPORARY BRIDGE TO C MITKOF HIGHWAY SHALL NOT BE GREATER THAN 33'.
2. NO PILING WITHIN ACTIVE CHANNEL WIDTH.
3. NO FILL IN STREAM WITHIN ACTIVE CHANNEL ZONE EXCEPT CLASS II RIPRAP.
4. ALL WORK IN OHMER CREEK SUBJECT TO WORK WINDOWS (TIME RESTRICTIONS).
5. RETURN SLOPES TO PRE FILL CONDITION ONCE PERMANENT BRIDGE IS IN PLACE. SEEDING MAY BE REQUIRED ONCE TEMPORARY FILLS ARE REMOVED.
6. SEE APPENDIX B OF THE CONTRACT DOCUMENTS FOR ADDITIONAL RESTRICTIONS.



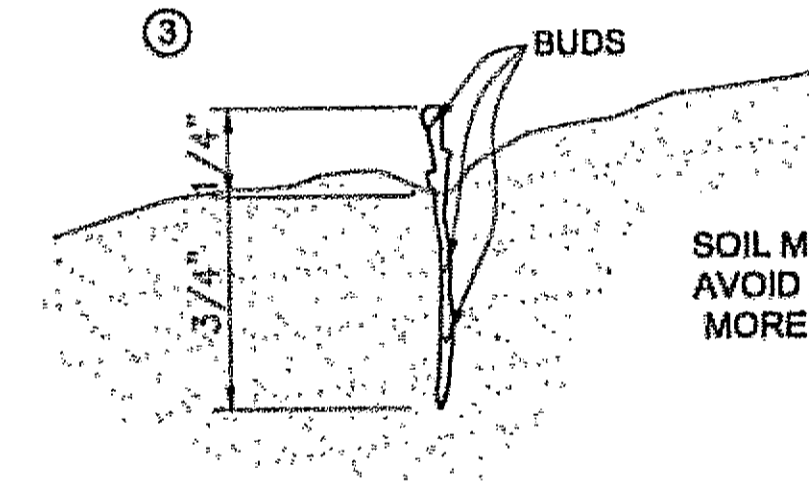
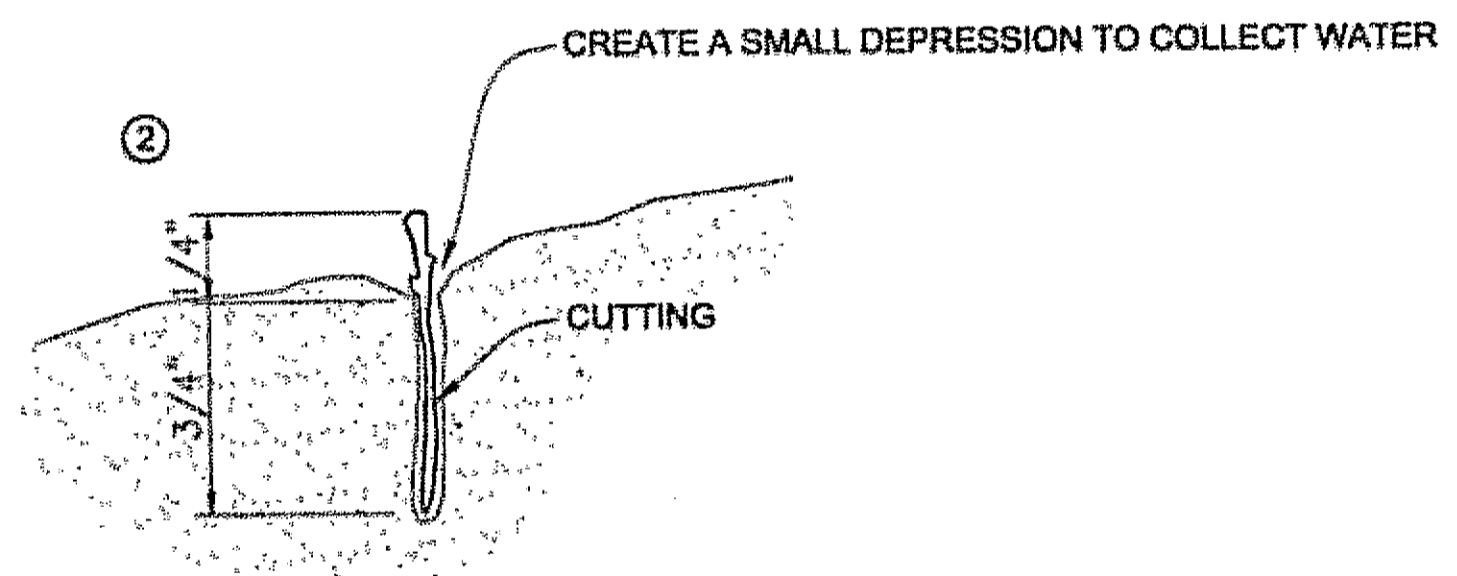
TEMPORARY BRIDGE ESCP PLAN

As-Built 5-11-07

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



SHOVEL INSTALLATION METHOD



SOIL MUST BE FIRMED AROUND LIVE STAKE TO AVOID AIR POCKETS AND DRYING OUT. TRIM IF MORE THAN 2 BUDS ARE ABOVE GROUND.

LIVE STAKING STEP-BY-STEP

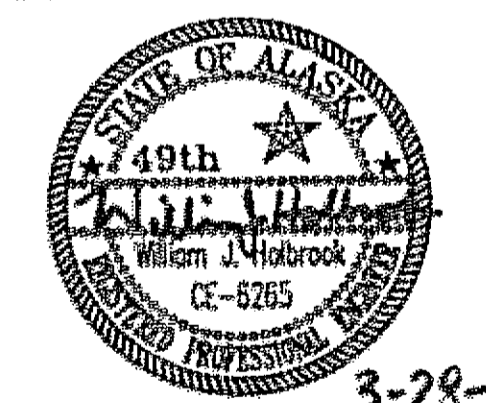
SHEET NOTES:

1. COLLECTION: COLLECT, HANDLE AND STORE PLANT STOCK (DORMANT CUTTINGS) IN ACCORDANCE WITH ACCEPTED NURSERY PRACTICES.
2. PLANT PREPARATION: OBTAIN SEVERAL LIVE STAKES FROM ONE DORMANT CUTTING. CUT STAKES 10 TO 18 INCHES LONG, 1/2 TO 2 INCHES IN DIAMETER (SLIGHTLY LARGER DIAMETER CUTTINGS WILL ALSO WORK). DISCARD FLOWER BUDS ("PUSSY WILLOWS"). FLOWER BUDS TYPICALLY OCCUR AT THE TOP 2/3 OF A BRANCH THAT WAS PRODUCED DURING THE PAST GROWING SEASON. AT LEAST ONE OR TWO LEAF BUDS THAT ARE SMALLER THAN FLOWER BUDS MUST BE PRESENT NEAR THE TOP OF EACH LIVE STAKE.
3. PLANT SITES: PLANT ON BRIDGE SLOPES PER SHEET E7 LOCATIONS.
4. USE 1 INCH REBAR TO CREATE A 2" DIAMETER PLANTING HOLE 2' DEEP, PARTICULARLY WHEN PLANTING IN COMPACT AND GRAVELLY SOILS. A SHOVEL OR HYDRAULIC DRILL MAY ALSO BE USED. TIGHTLY PACK THE SOIL AROUND THE STAKE SO THAT NO AIR POCKETS REMAIN. PLANT STAKES UPRIGHT 3 FEET ON CENTER. STAKES SHOULD BE PLANTED AS VERTICALLY AS POSSIBLE, PLACING AT LEAST 3/4 OF THE STAKE BELOW GROUND SO THAT ONLY ONE OR TWO LEAF BUDS ARE LEFT EXPOSED ABOVE THE GROUND. THE INTENT IS TO MAXIMIZE THE SURFACE AREA FOR ROOTING SO A GOOD ROOT SYSTEM CAN DEVELOP AND SUPPORT A HEALTHY SHOOT SYSTEM. IF MORE THAN ONE OR TWO BUDS, 1/4 OF THE STAKE, OR 4 INCHES OF THE LIVE STAKE IS EXTENDING ABOVE THE SOIL SURFACE, TRIM THE STAKE.
5. WATERING: WATER DURING THE FIRST 6 WEEKS AFTER PLANTING IF IN NON-PERMANENTLY MOIST SOIL.
6. SEE SHEET E7 FOR PLAN LOCATION.

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

**RIPARIAN PLANTING
 DETAILS**

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

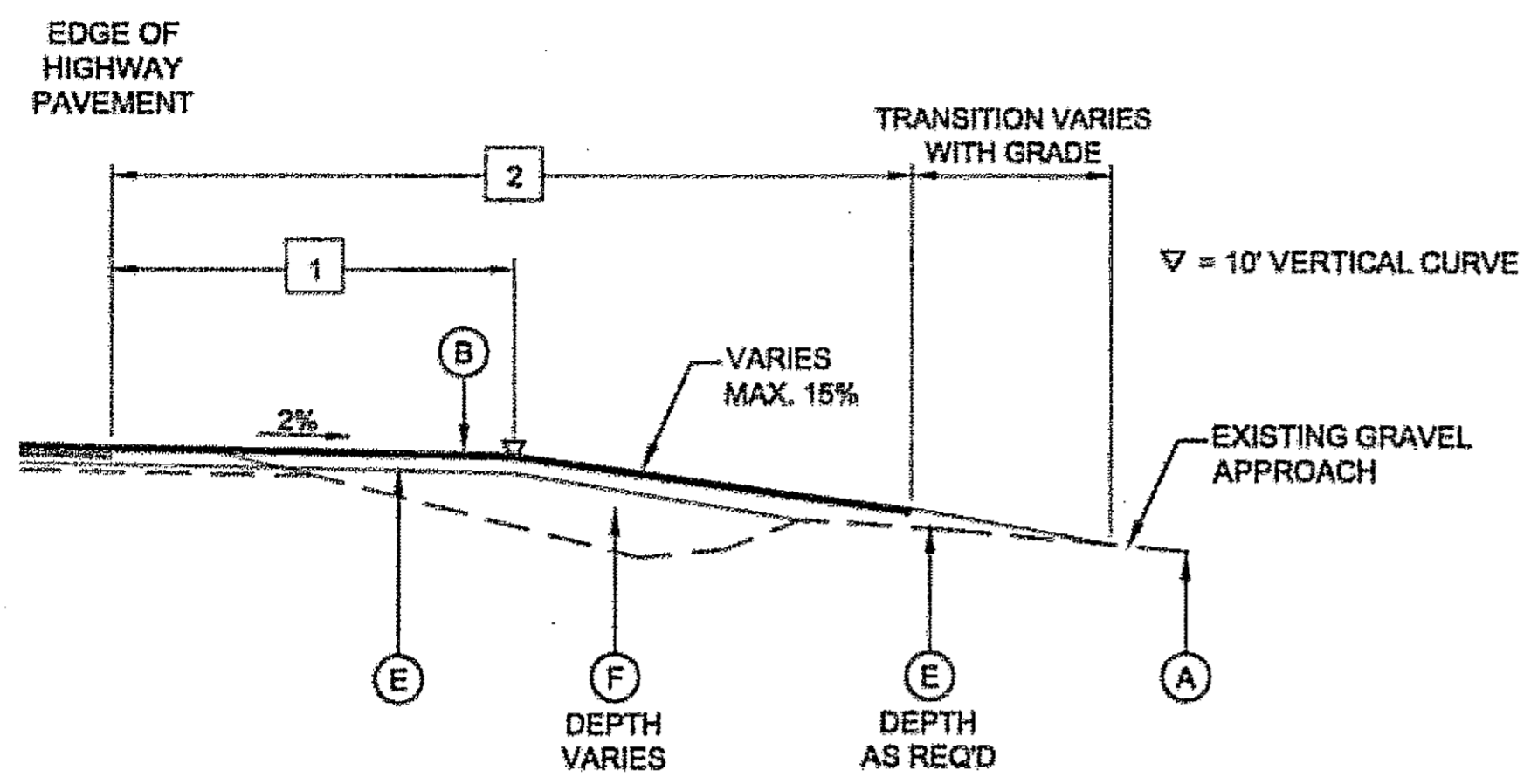
**RIPARIAN PLANTING
 DETAILS**

PROJECT DESIGNATION NUMBER
 BR-0937(32) ~ 68896

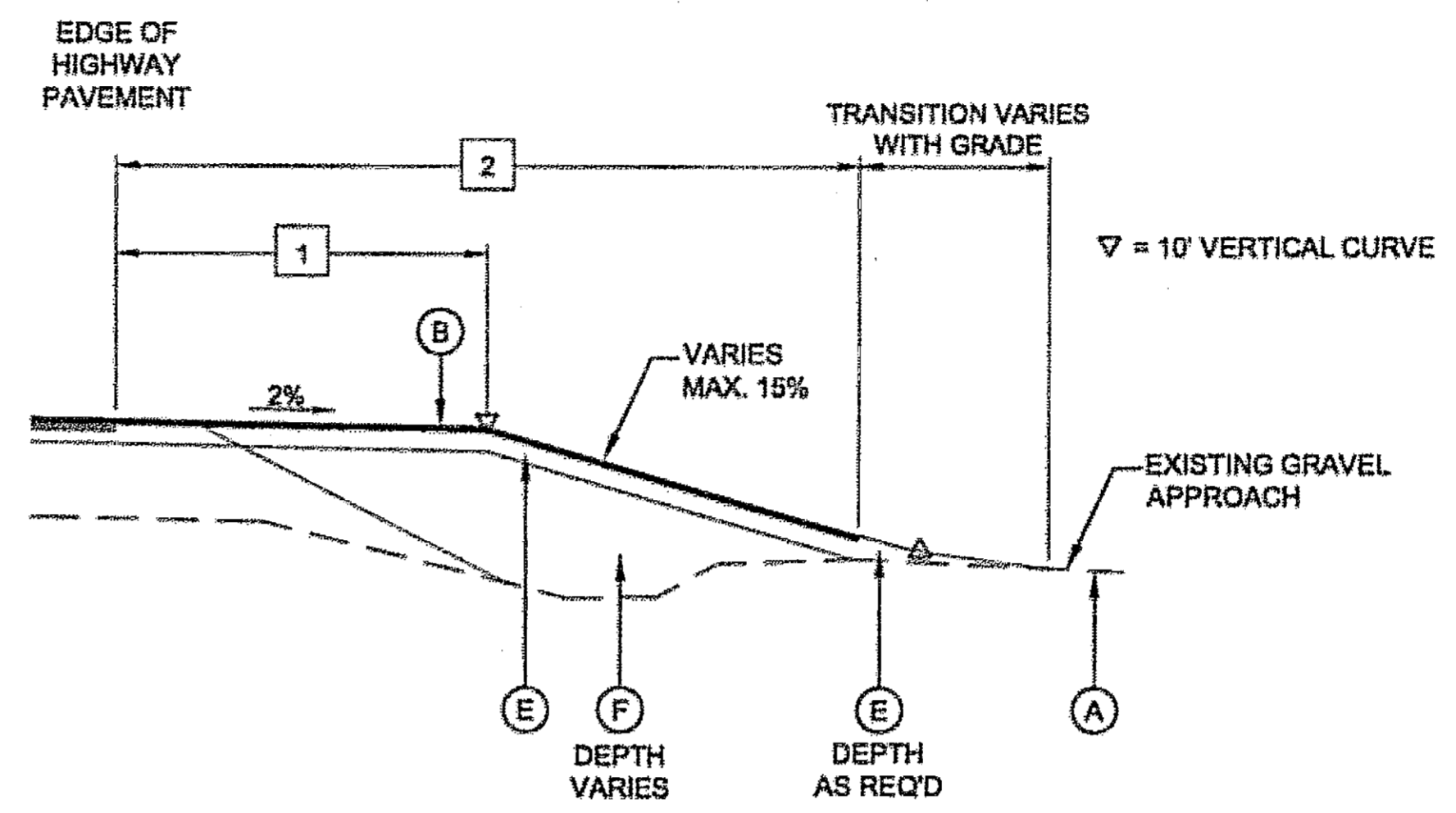
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E8	30

As-Built 5-11-07

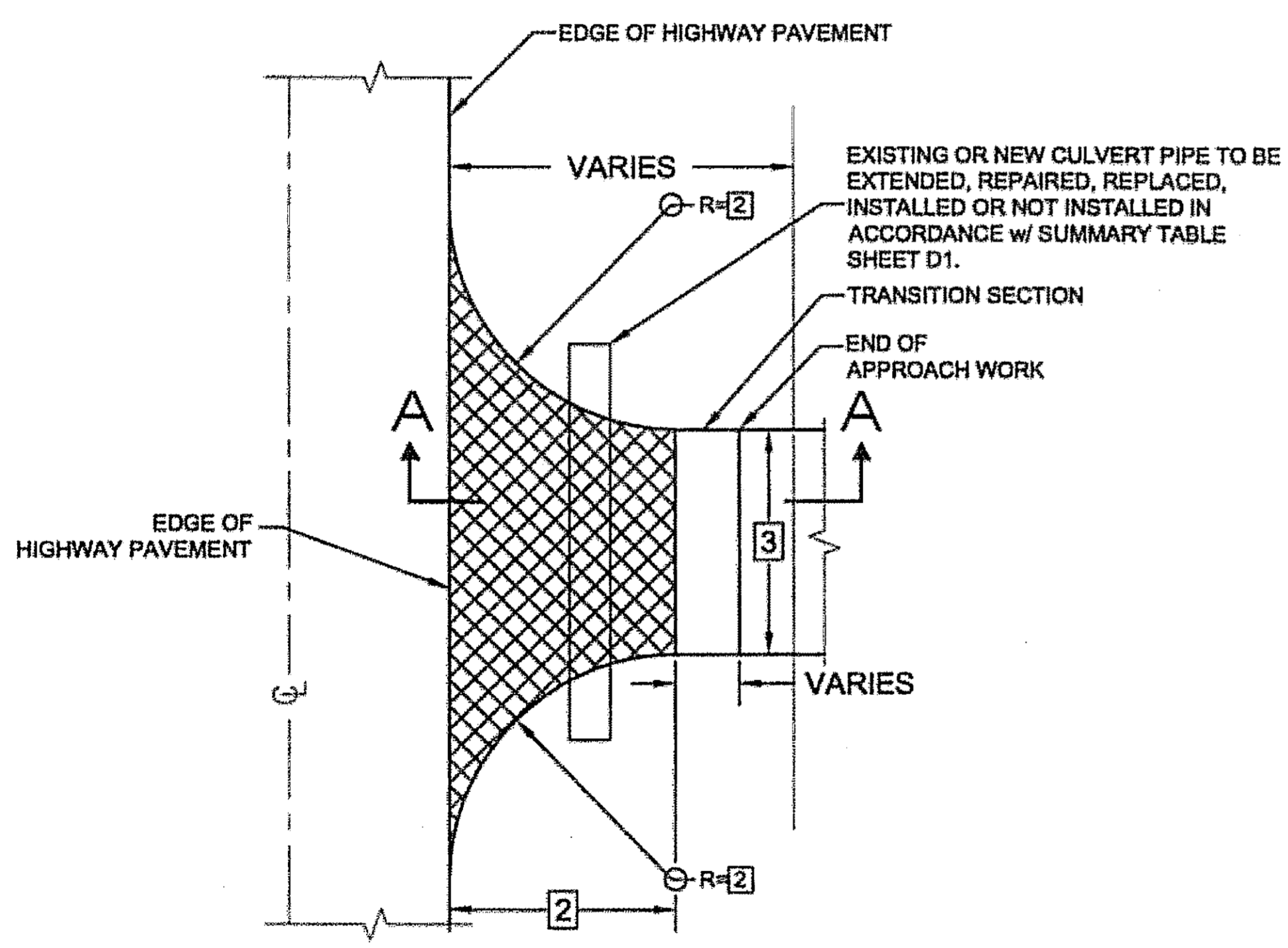
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



SECTION A-A
 (STANDARD TYPICAL SECTION)



SECTION A-A
 (RAISED TYPICAL SECTION)



PLAN
TYPICAL APPROACH

COMMERCIAL PAVING

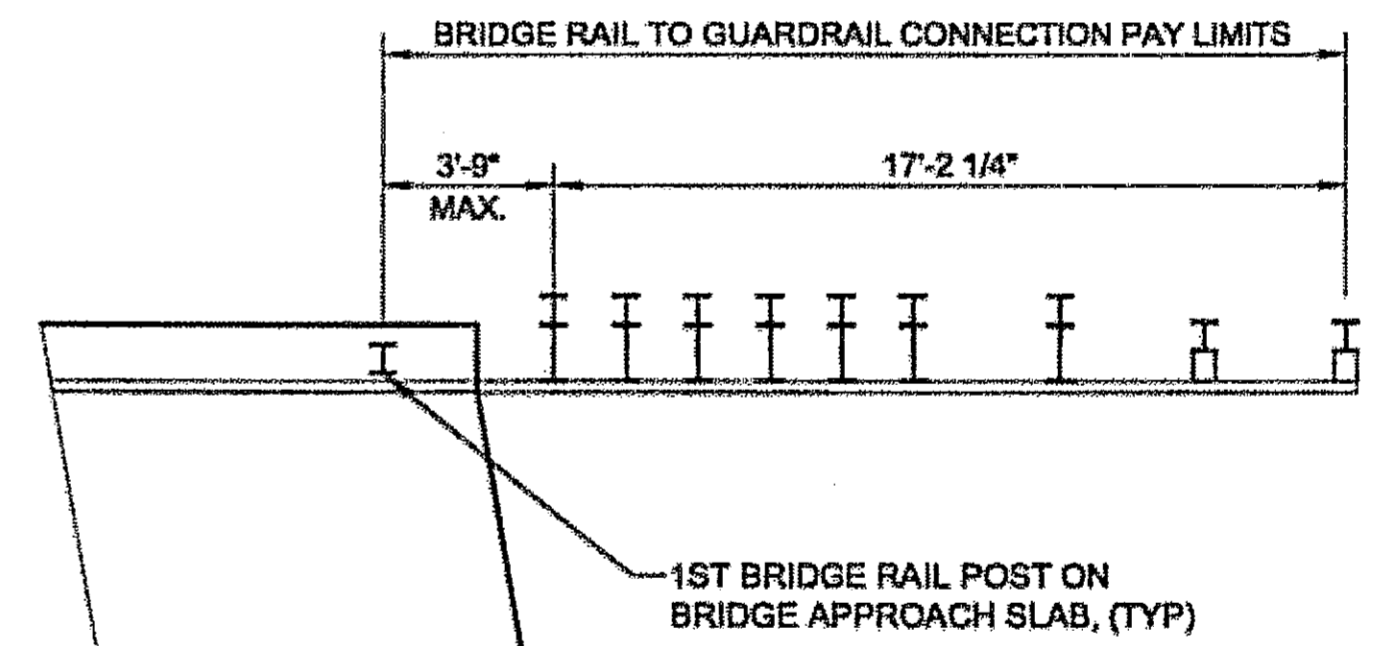
- 1 30' LANDING
- 2 40' OR TO ROW LINE, WHICHEVER IS LESS
- 3 MATCH EXISTING WIDTH, 34' MAX.

RESIDENTIAL PAVING

- 1 10' LANDING
- 2 20' OR TO ROW LINE, WHICHEVER IS LESS
- 3 MATCH EXISTING WIDTH, 20' MAX.

LEGEND

- (A) EXISTING GROUND
- (B) 2" ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B
- (C) STE-1 ASPHALT FOR TACK COAT
- (D) 1 1/2" ASPHALT TREATED BASE COURSE
- (E) 4" SUBBASE GRADING "C"
- (F) SELECT MATERIAL, TYPE "D"
- (G) SEEDING
- (H) W-BEAM GUARDRAIL
- (I) GEOTEXTILE, SEPARATION FABRIC
- (J) DITCH RECONDITIONING
- (K) REMOVING AND DISPOSING OF GUARDRAIL
- (L) RECONDITIONING



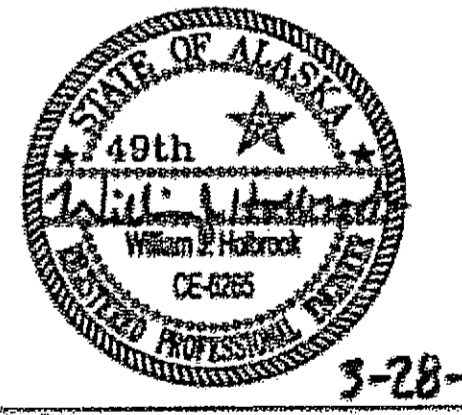
PLAN
BRIDGE RAIL TO GUARDRAIL CONNECTION PAY LIMITS

As-Built 5-11-07 co

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

MISCELLANEOUS DETAILS

DESIGNED BY: B. HOLBROOK

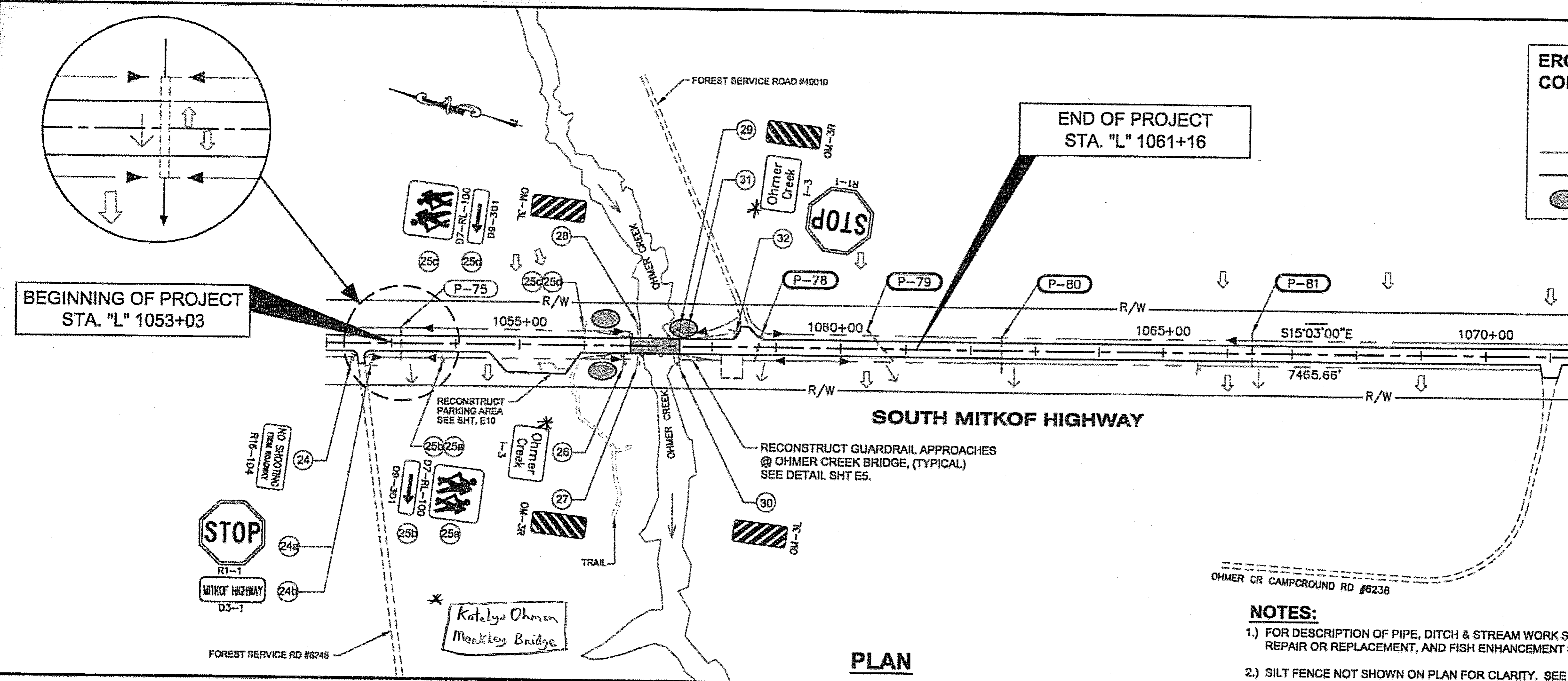


CHECKED BY: J. HEUMANN
 DRAWN BY: DR DODGE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER	
BR-0937(32) ~ 68896	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
E9	30



EROSION AND SEDIMENT CONTROL LEGEND:

- PIPE FLOW VECTOR
- ⇨ SURFACE FLOW VECTOR
- ⇨ DITCH FLOW VECTOR
- ⇨ STREAM FLOW VECTOR
- TEMPORARY ROCK CHECK DAM

SIGNING LEGEND:

- SIGN
- AUX. SIGN

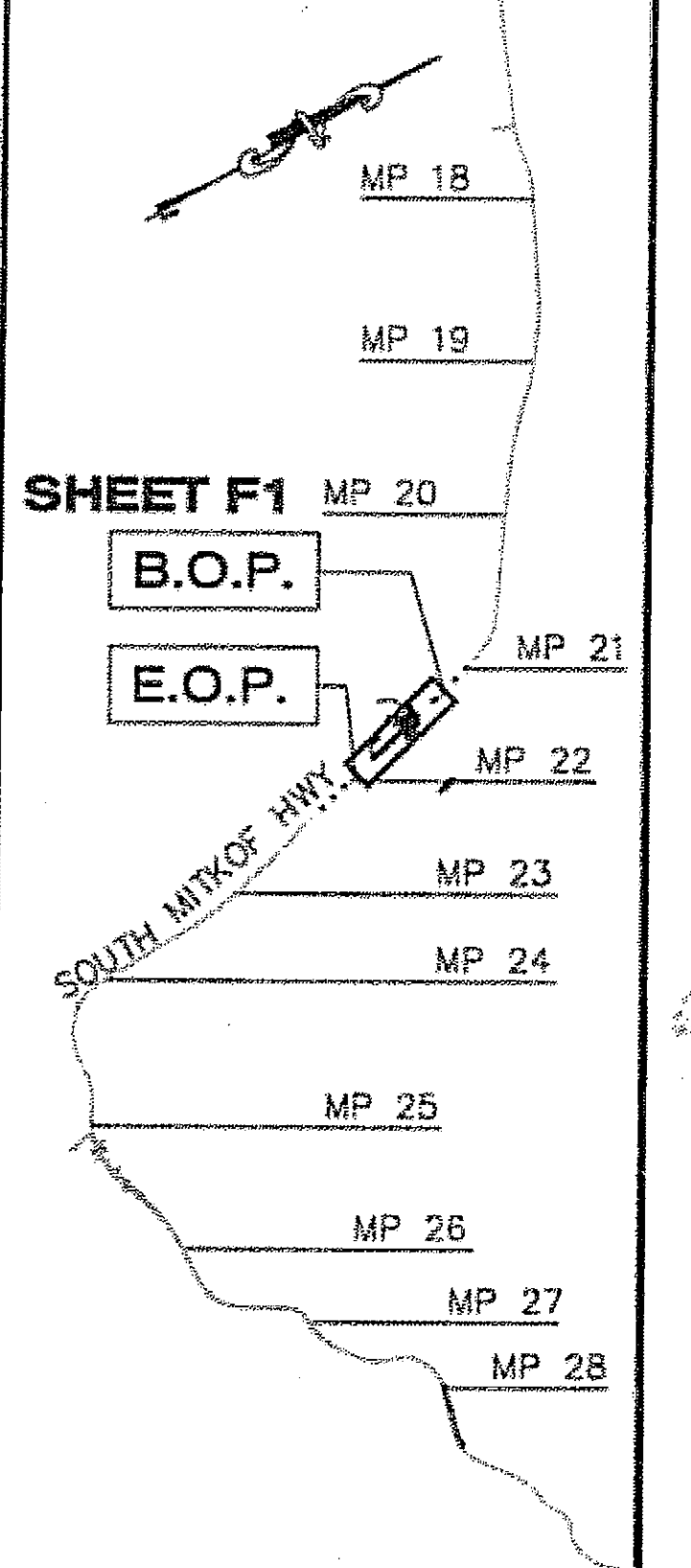
NOTES:

- FOR DESCRIPTION OF PIPE, DITCH & STREAM WORK SEE CULVERT PIPE EXTENSION, REPAIR OR REPLACEMENT, AND FISH ENHANCEMENT SUMMARY SHEET D1.
- SILT FENCE NOT SHOWN ON PLAN FOR CLARITY. SEE DETAIL SHEET E4.

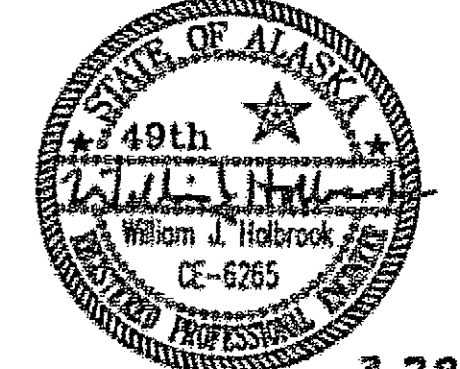
PLAN

PATH:
Q:\Psg\68896\Plan\BRIDGE\F1_Plan P&P.dwg
Wed, 22/Mar/06 02:17PM rgrantham
TAB: F1

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN
DRAWN BY: DR DODGE/R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SE REGION
PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE
REPLACEMENT
PROJECT NO. 68896
**LAYOUT PLAN
VIEWS**

PROJECT DESIGNATION NUMBER	
BR-0937(32) ~ 68896	
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
F1	30

As-Built 00 5-11-07

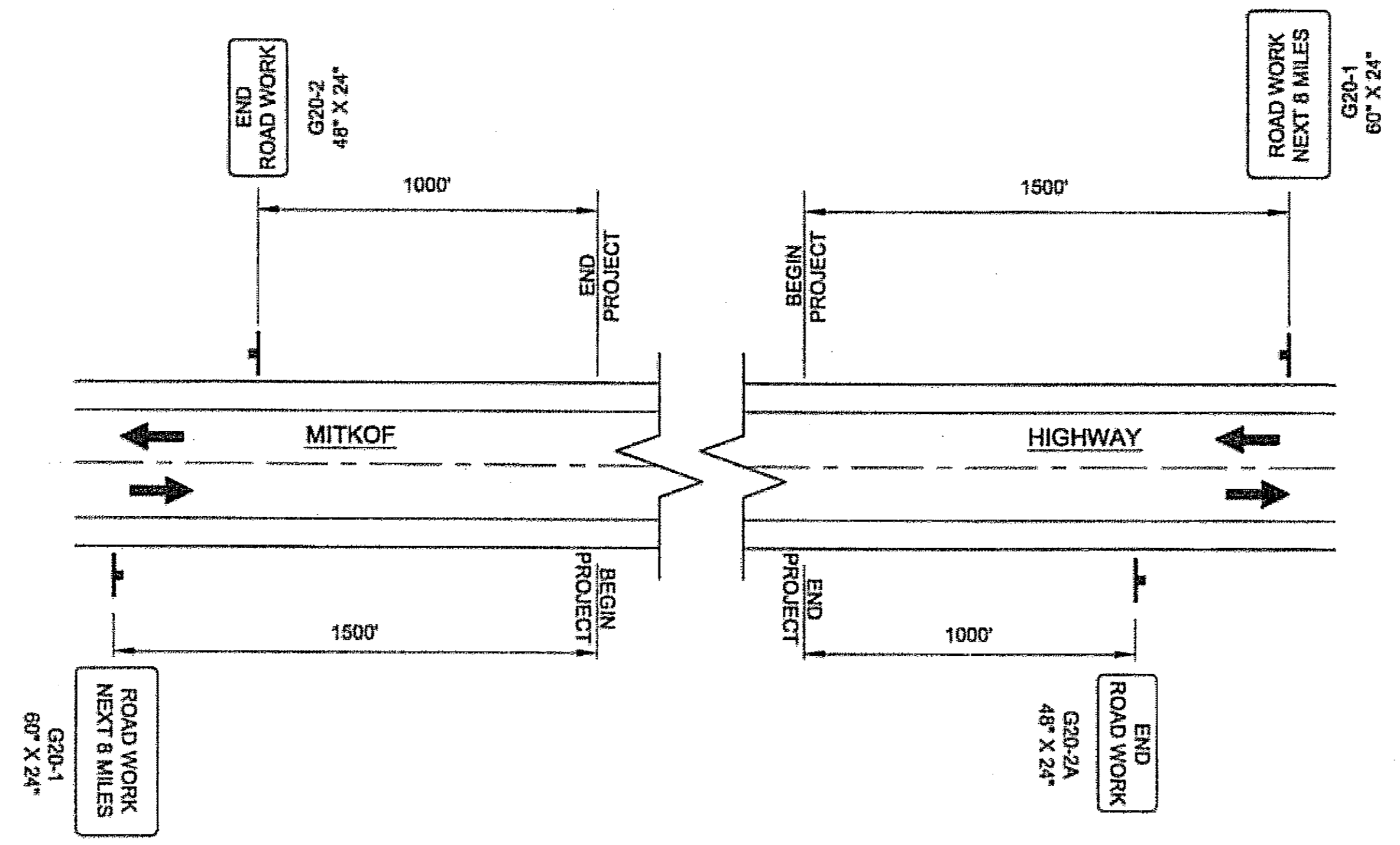
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

TRAFFIC CONTROL NOTES:

- IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
- A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES, THROUGH ALL WORK AREAS.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS. WRITTEN APPROVAL FROM THE ENGINEER IS REQUIRED FOR ANY DEVIATION.
- TRAFFIC LANES SHALL BE A MINIMUM OF 10' WIDE.
- CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
- TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.09 OF THE SPECIFICATIONS.
- CHANNELIZATION DEVICES WILL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL IF USED AT NIGHT.
- KEEP THE PUBLIC INFORMED OF CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
- IF VEHICLE STOP TIME EXCEEDS FIVE MINUTES, WORK ZONE OR WORK HOURS WILL HAVE TO BE ADJUSTED.
- FLAGGERS SHALL BE IN RADIO CONTACT WITH ONE ANOTHER.
- PATCH ALL BASE RECONSTRUCTION AREAS WITH CRUSHED AGGREGATE BASE MATERIAL IMMEDIATELY AFTER FINISHING WORK IN THESE AREAS. THE CRUSHED AGGREGATE BASE MATERIAL IN THESE AREAS SHALL BE MAINTAINED UNTIL THE SUCCEEDING COURSE IS LAID.

LEGEND	
	SIGN
	CONE
	DRUM
	TYPE III BARRICADE
	FLAGGING STATION
WHERE	
L =	LENGTH OF TAPER
W =	WIDTH OF OFFSET
S =	SPEED (mph)
L =	WS for 45 mph or Greater
L =	$\frac{WS^2}{60}$ for 40 mph or Less

TCP TABLE SETUP		
SPEED (MILES PER HOUR)	BUFFER/LENGTH (FT.)	CONE/DRUM SPACING (FT.)
20	115	20
25	155	25
30	200	30
35	250	35
40	305	40
45	360	45
50	425	50
55	495	55
60	570	60
65	645	65



PERMANENT CONSTRUCTION SIGNING

As-Built 5-11-07 cd

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

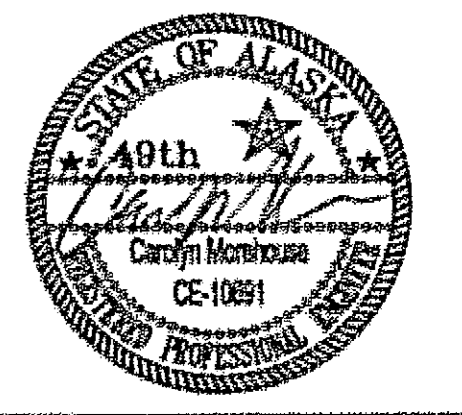
PATH:
D:\Psg\68896\Planset\BRIDGE\H_Traffic Cont.
Wed, 22/Mar/06 02:18PM rgrantham

TAB: H1
ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS
No. DATE DESCRIPTION

PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE REPLACEMENT
PROJECT NO. 68896

TRAFFIC CONTROL PLAN

DESIGNED BY: C. MOREHOUSE



CHECKED BY: W. HOLBROOK

DRAWN BY: DR DODGE, R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION - SE REGION
PSG-MITKOF HIGHWAY
OHMER CREEK BRIDGE
REPLACEMENT
PROJECT NO. 68896

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

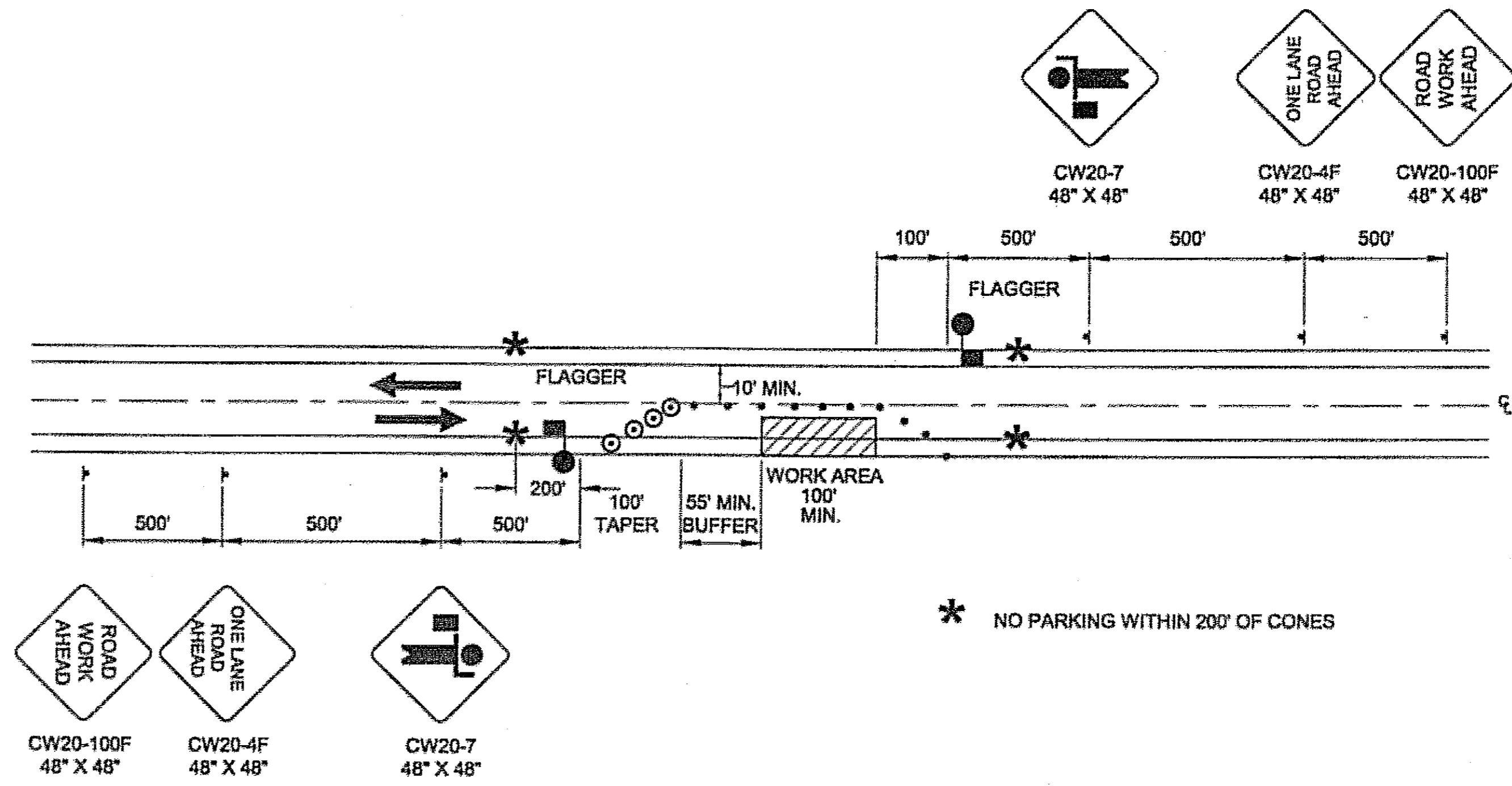
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
H1	30

TAB: H2

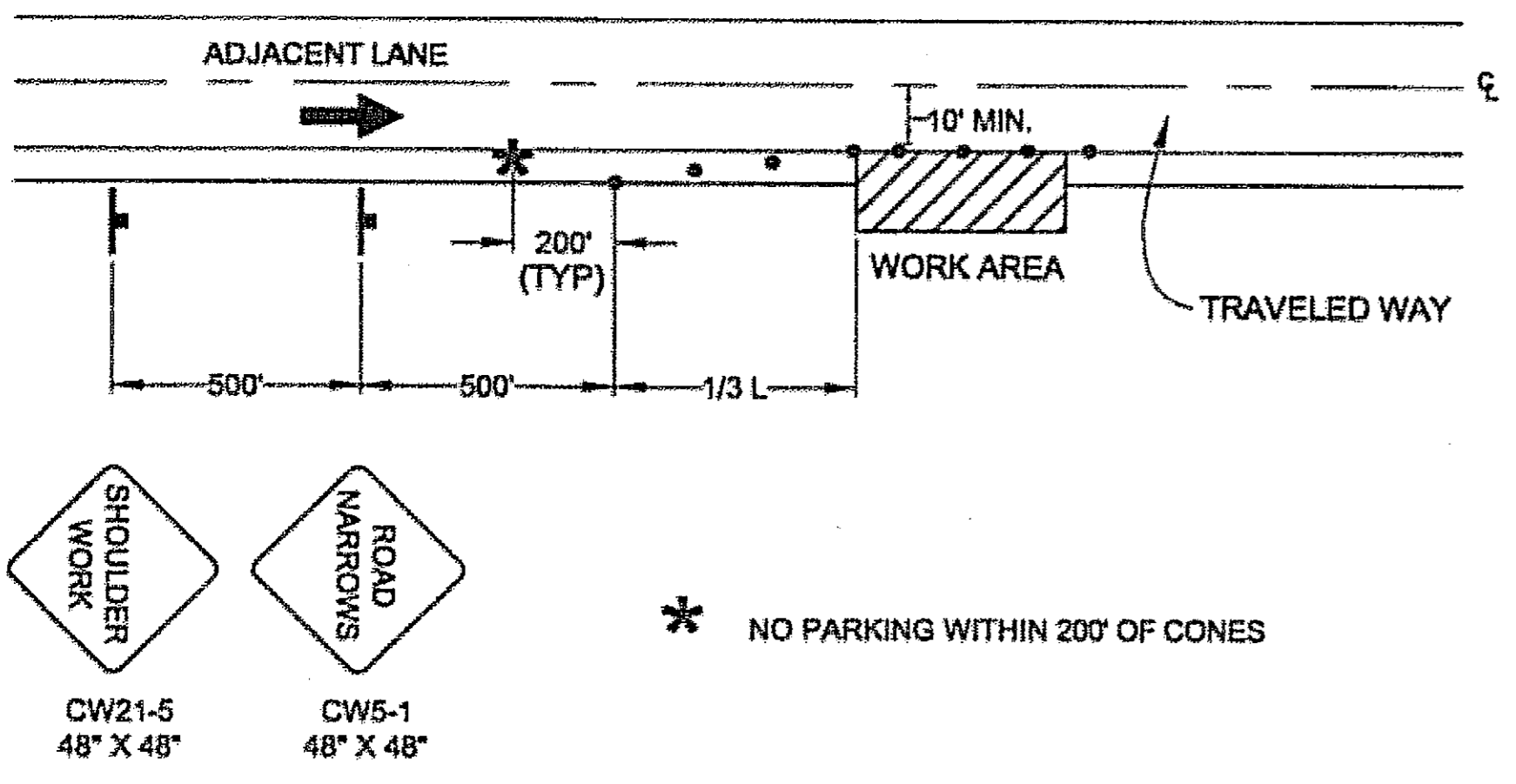
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

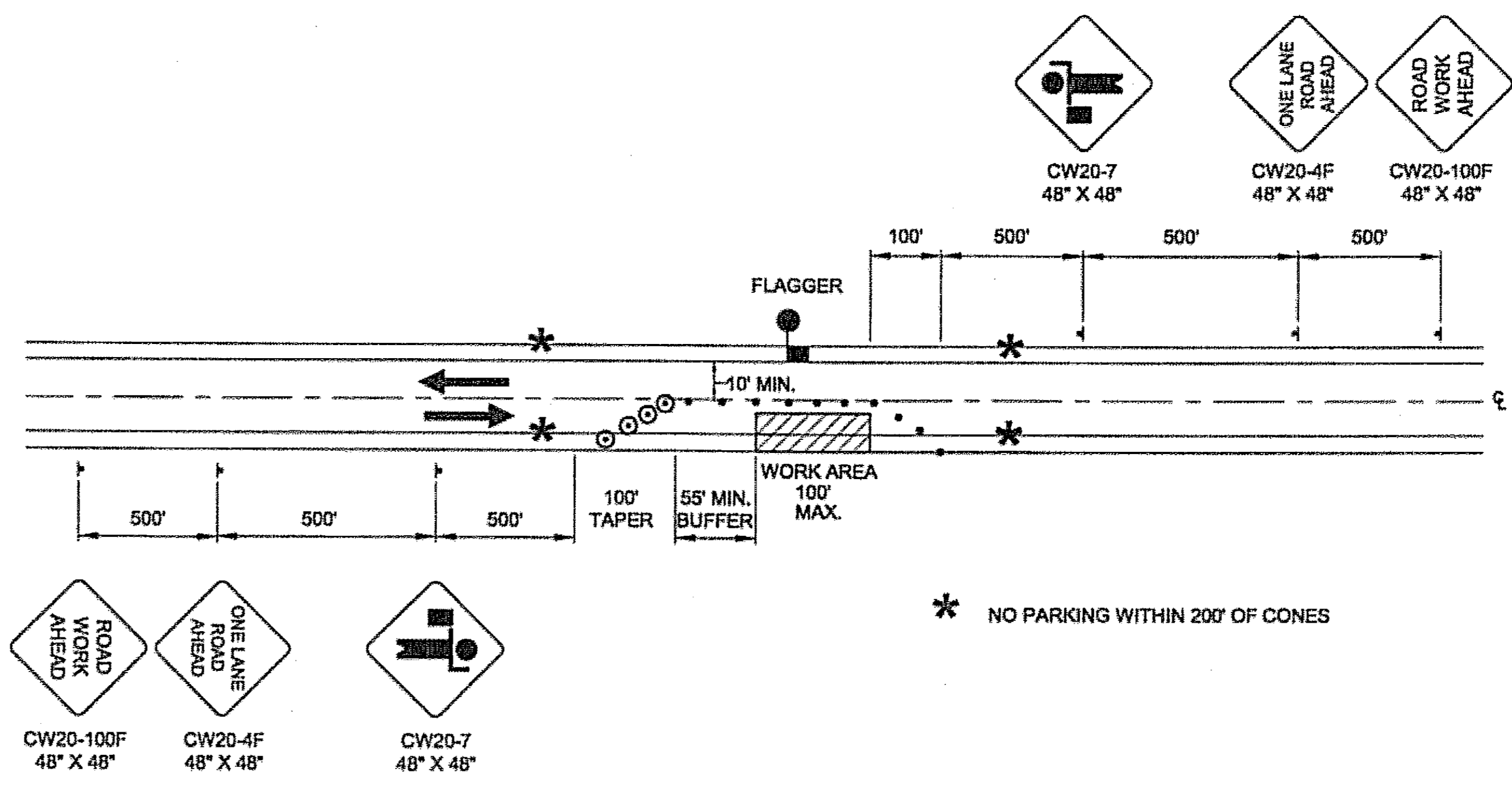
TRAFFIC CONTROL PLAN



**TWO LANE ROAD - SINGLE LANE CLOSURE
 DOUBLE FLAGGER**



SHOULDER WORK

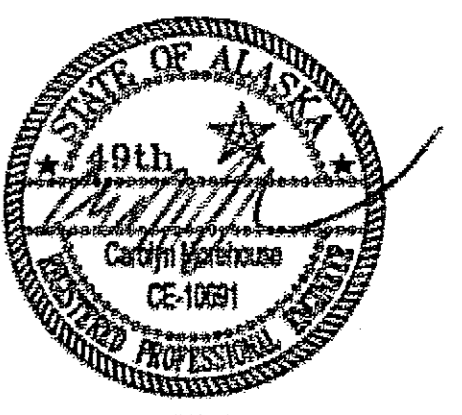


**TWO LANE ROAD - SINGLE LANE CLOSURE
 SINGLE FLAGGER**

As-Built 5-11-07 00

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: C. MOREHOUSE



CHECKED BY: W. HOLBROOK

DRAWN BY: DR DODGE, R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

TRAFFIC CONTROL PLAN

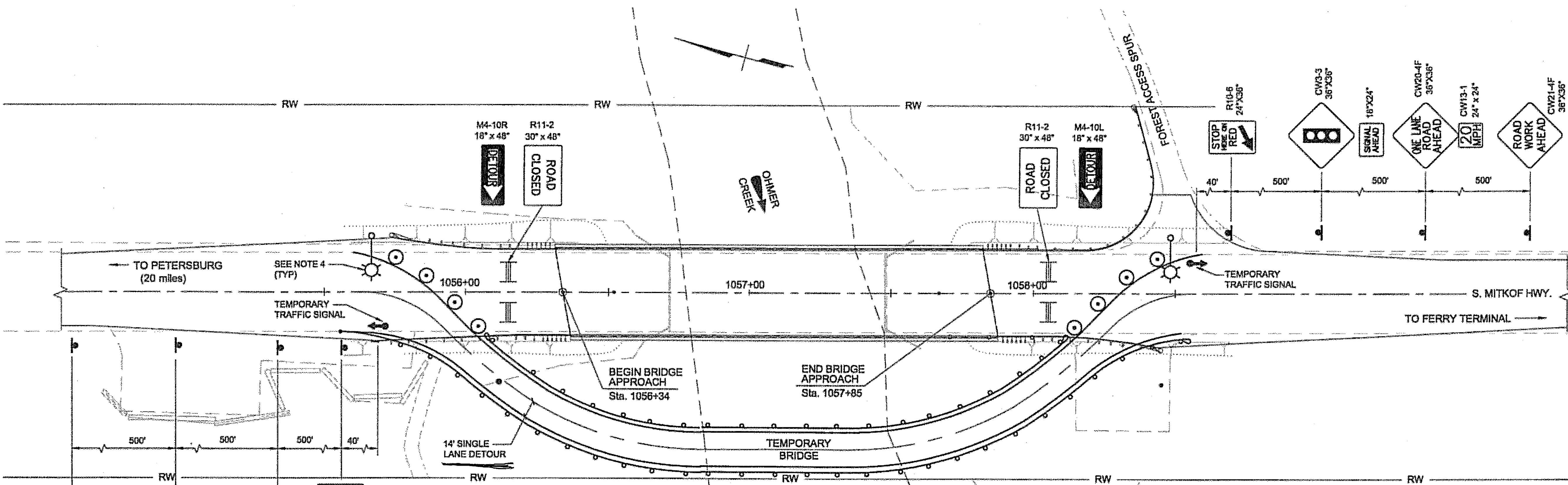
PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
H2	30

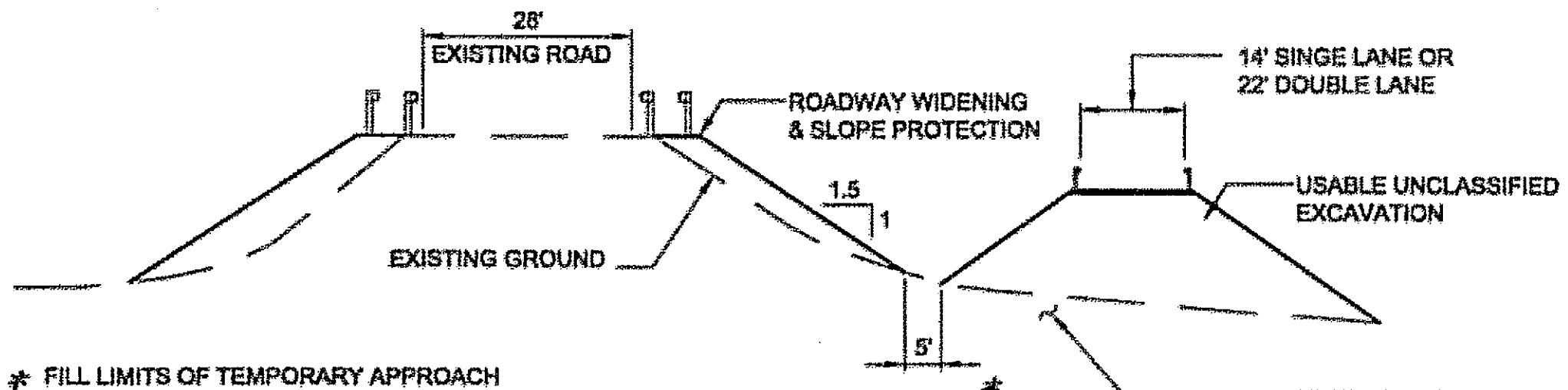
TAB: H3

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



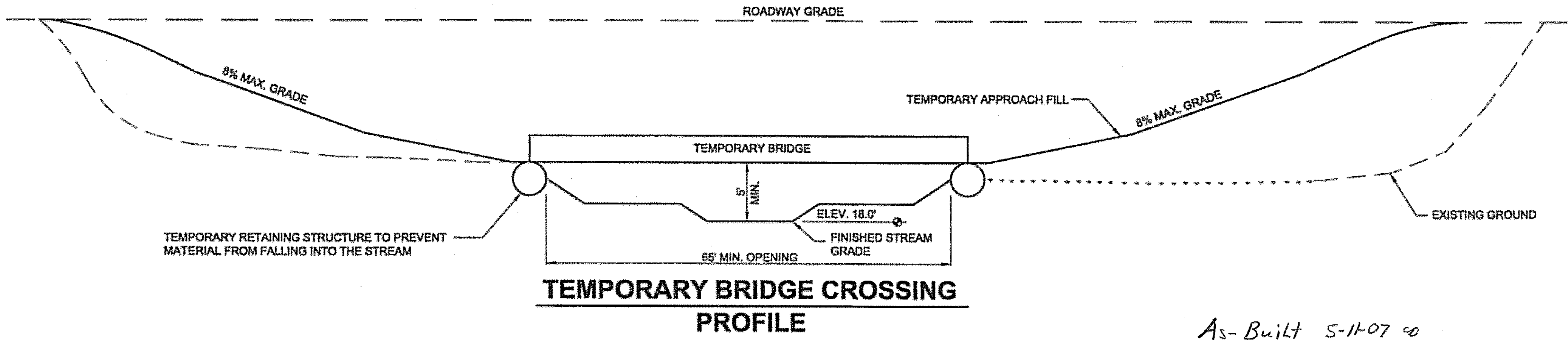
- NOTES:**
1. A 22' WIDE TWO WAY DETOUR BRIDGE CAN BE USED IN LIEU OF A 14' WIDE ONE WAY DETOUR BRIDGE WITH A SIGNAL. THE DETOUR SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY AND PERMIT AREA.
 2. SEE SECTION 643-3.02 OF THE SPECIAL PROVISIONS FOR DETOUR SITE CRITERIA.
 3. A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED THROUGH THE WORK AREA AT ALL TIMES.
 4. BALLOON LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.
 5. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
 6. CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE (SCOTCHLITE ORANGE 3924F OR APPROVED EQUAL).
 7. GUARDRAIL FOR THE TEMPORARY DETOUR SHALL BE TIED BACK INTO THE EXISTING GUARDRAIL. SALVAGED GUARDRAIL IF UNDAMAGED MAY BE USED. EXISTING END TREATMENTS WILL BE INSTALLED ON TEMPORARY GUARDRAILS.
 8. NO EQUIPMENT SHALL BE OPERATED IN THE VICINITY OF THE CREEK EXCEPT ON THE DETOUR AFTER THE TEMPORARY FILL MATERIAL HAS BEEN PLACED.
 9. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME NOT ALL OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THE TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL, WHERE APPROPRIATE. THEY SHALL INCORPORATE APPLICABLE PORTIONS OF DETAILS ON THESE SHEETS.
 10. SIGNAL TIMING SHALL CONSIST OF A 10 SECOND GREEN INTERVAL, 4 SECONDS YELLOW, AND ENOUGH RED TIME TO CLEAR TRAFFIC THROUGH THE DETOUR. THE SIGNAL SHALL REST IN RED WHEN NO VEHICLES ARE PRESENT. THE TIMING PLAN SHALL BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTATION.
 11. SIGN LIGHT SHALL BE SET UP TO CONFORM TO MUTCD PART 4.

**TRAFFIC CONTROL PLAN
 FOR TEMPORARY ROAD CLOSURE AT
 OHMER CREEK BRIDGE**



* FILL LIMITS OF TEMPORARY APPROACH SHALL BE CONSTRUCTED A MINIMUM OF 5' FROM FILL LIMITS OF NEW WIDENING AND SLOPE PROTECTION.

**TEMPORARY APPROACH FILL
 SECTION**



**TEMPORARY BRIDGE CROSSING
 PROFILE**

LEGEND

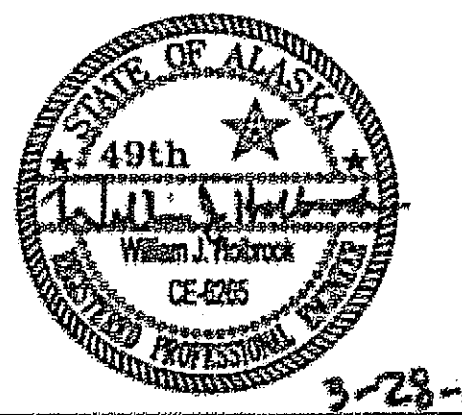
	SIGN
	CONE
	DRUM
	TYPE III BARRICADE
	FLAGGING STATION
	TEMPORARY TRAFFIC SIGNAL
	BALLOON LIGHT

As-Built 5-11-07 00

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

**TRAFFIC CONTROL PLAN
 BRIDGE DETOUR**

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

**TRAFFIC CONTROL
 PLAN BRIDGE DETOUR**

PROJECT DESIGNATION NUMBER

BR-0937(32) - 68896

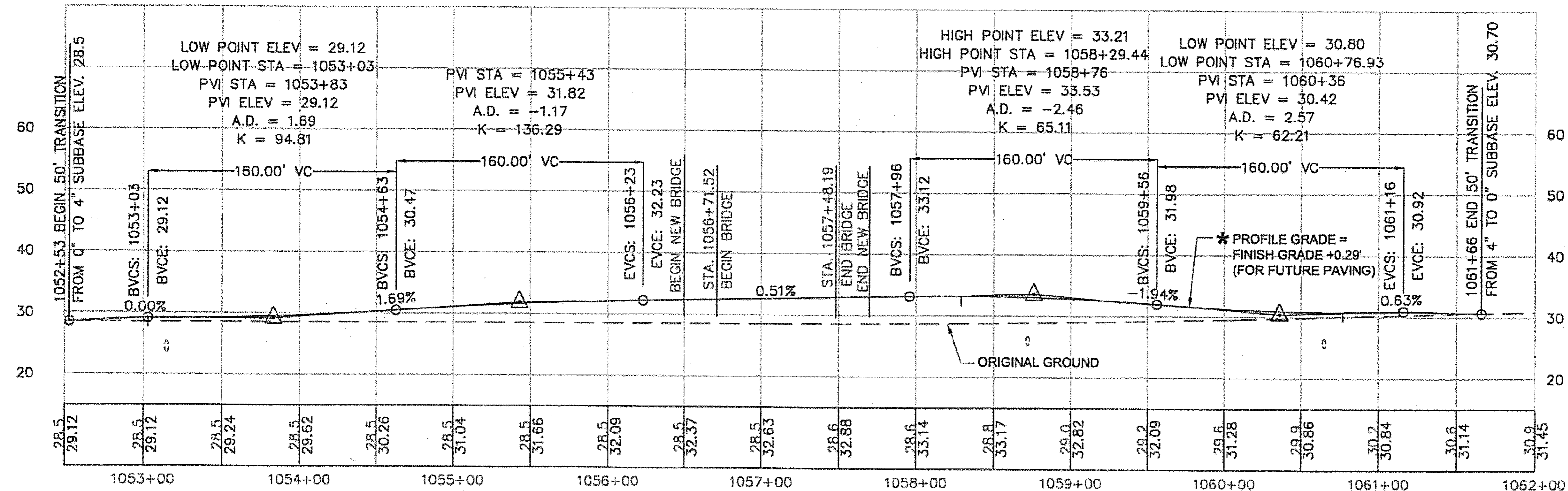
STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
H3	30

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

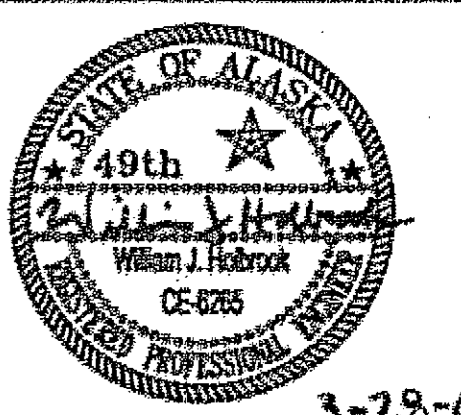
PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896
**BRIDGE AREA
 ROADWAY PROFILE**

NOTE:
 ALL EXISTING "AS-BUILT"
 ELEVATIONS ADJUSTED +0.5'
 TO MEET ASSUMED DATUM
 FROM BRIDGE DESIGN

* NOTE:
 CONSTRUCT NEW EMBANKMENTS TO FINISH
 GRADE ELEVATION FOR THIS PROJECT.



DESIGNED BY: W. HOLBROOK



CHECKED BY: J. HAUMANN
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

**BRIDGE AREA
 ROADWAY PROFILE**

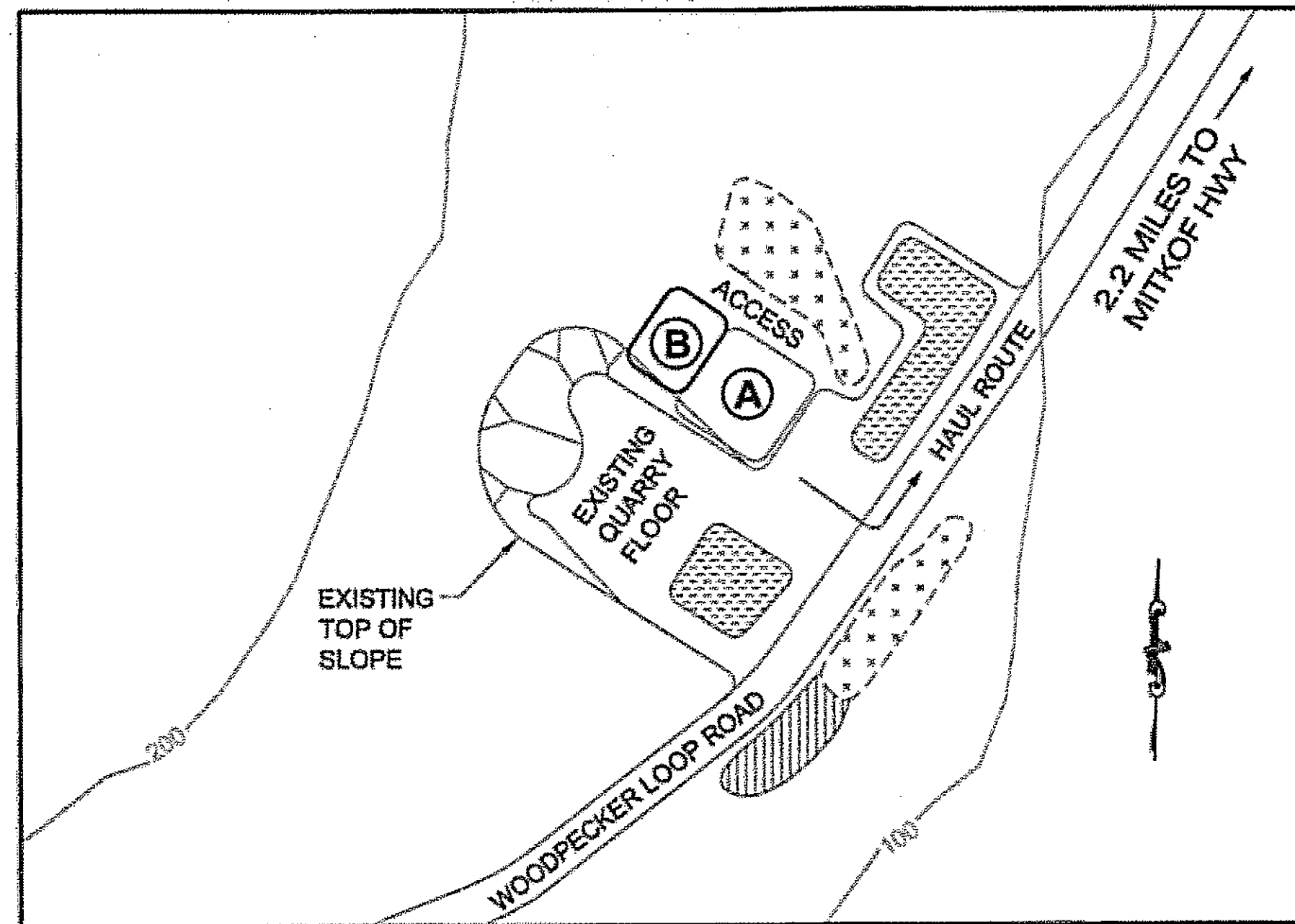
PROJECT DESIGNATION NUMBER
 BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
P1	30

Profile

As-Built 5-11-07

DO NOT SCALE FROM THESE DRAWINGS, USE DIMENSIONS

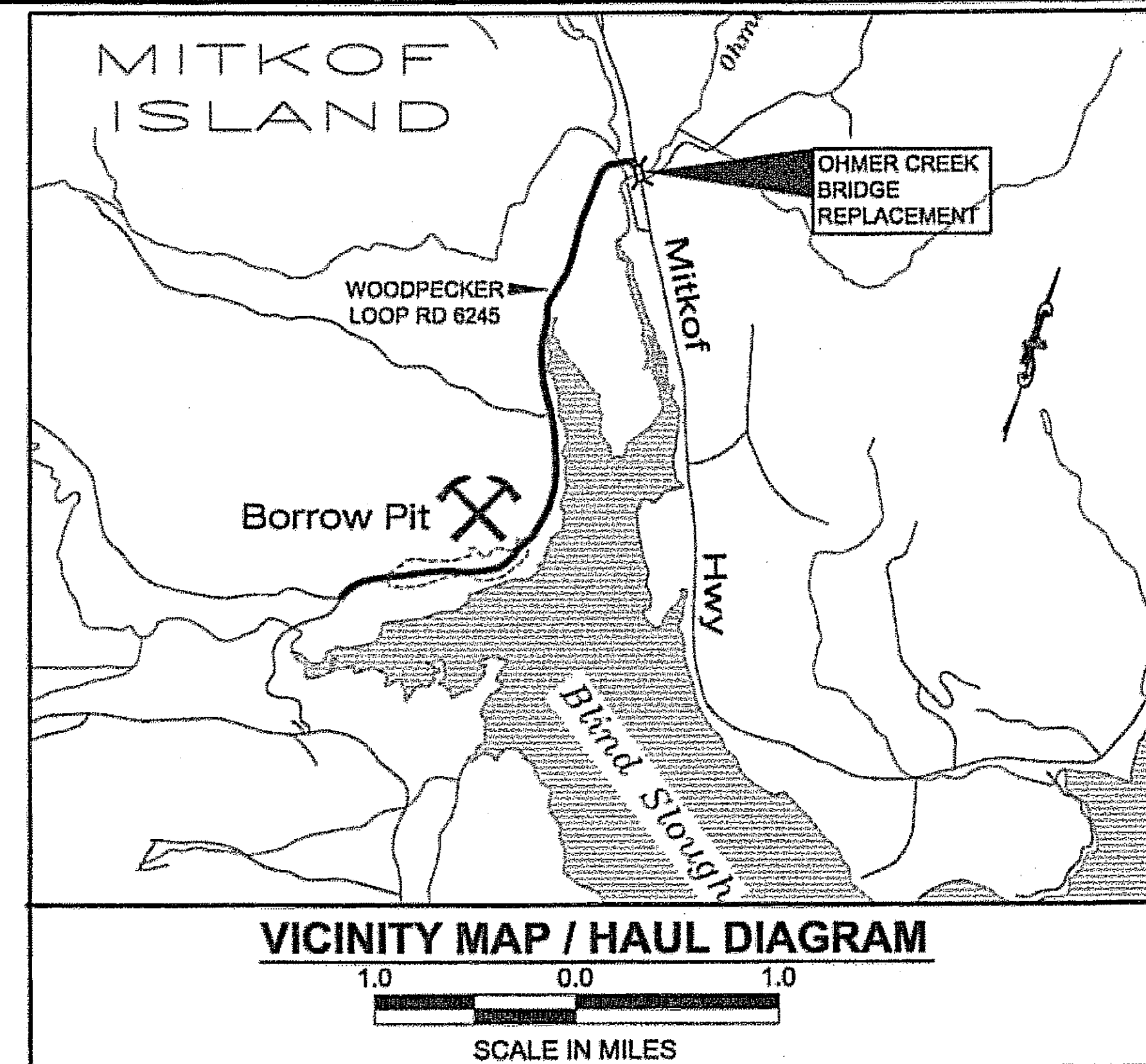


QUARRY PLAN

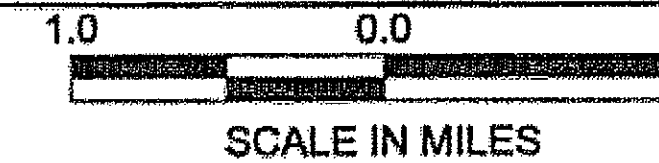


LEGEND:

- EXISTING WASTE AREA
- WASTE DISPOSAL AREA FOR THIS PROJECT
- EXISTING USFS AGGREGATE STOCKPILE
- MINING AREA CURRENTLY PERMITTED BY OTHERS
- PROPOSED 65' x 50', 6,000 CU.YD. MINING AREA FOR THIS PROJECT

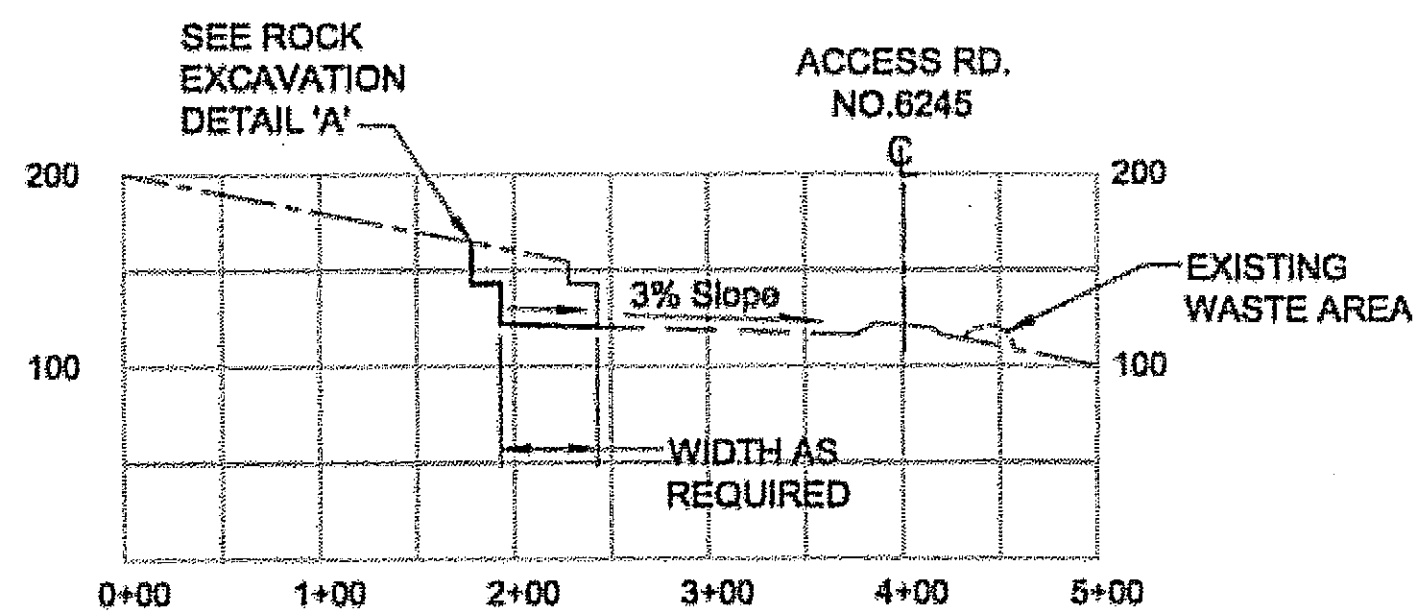


VICINITY MAP / HAUL DIAGRAM



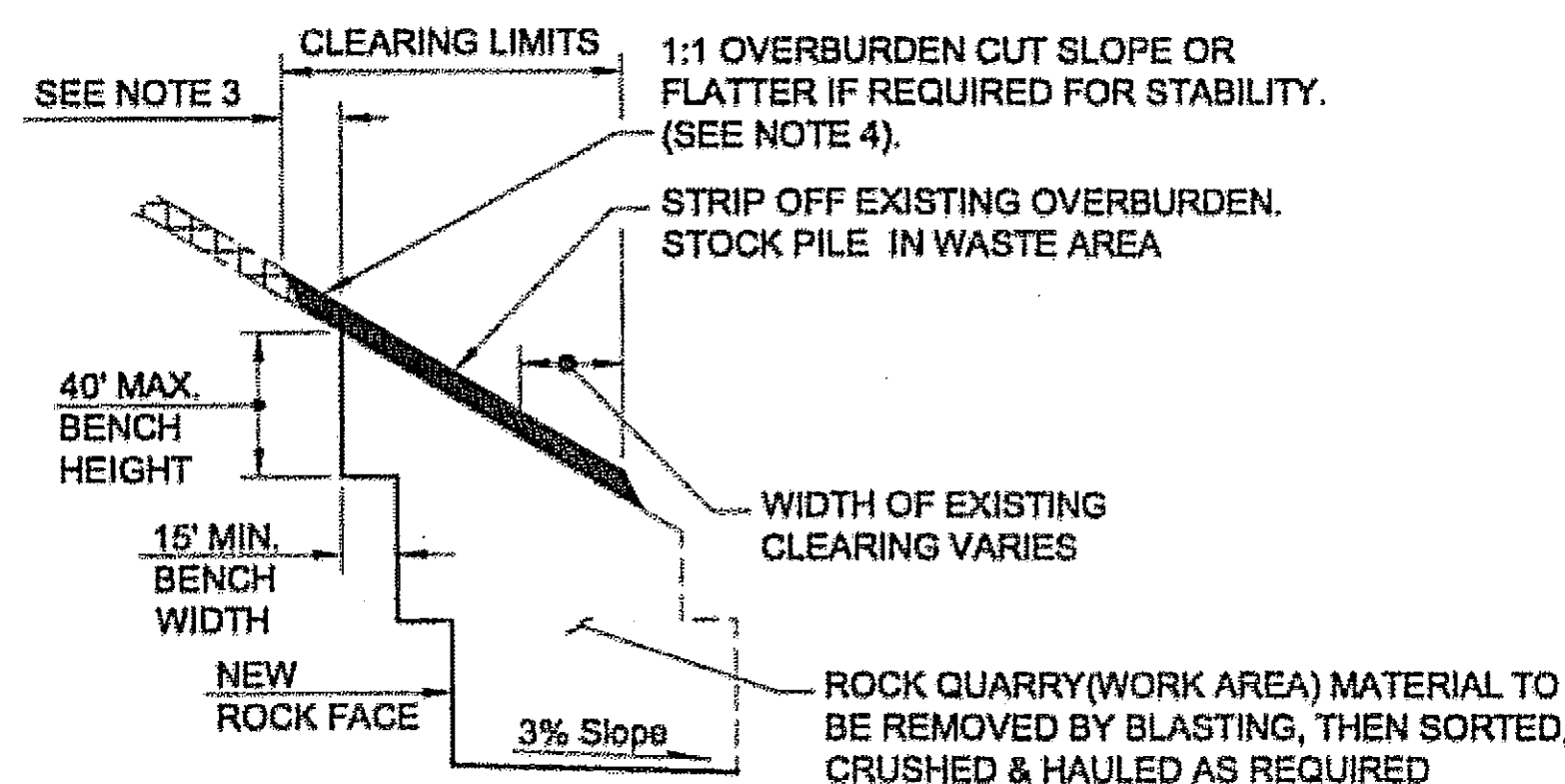
QUARRY DEVELOPMENT PLAN:

QUARRY IS LOCATED NORTH SIDE OF WOODPECKER ROAD (NO. 6245) 2.2 MILES FROM MITKOF HWY. ESTIMATE OF VOLUME REQ'D = 6,000 cu.yd.



TYPICAL SECTION

SCALE: 1"=100'



ROCK EXCAVATION DETAIL 'A'

NO SCALE

DEVELOPMENT PLAN:

1. ALL MERCHANTABLE TIMBER WILL BE REMOVED FROM ROCK PRODUCTION AREAS LIMBED AND STOCK PILED AT LOCATIONS APPROVED BY ENGINEER WITHIN THE QUARRY SITE AND ROAD ACCESSIBLE. SEE SECTION 106 FOR ADDITIONAL REQUIREMENTS.
2. PROTECT THE TWO EXISTING PROCESSED ROCK STOCKPILES LOCATED WITHIN THE QUARRY FROM CONTAMINATION.
3. REMOVE ALL OVERBURDEN TO SOLID ROCK FOR A MINIMUM DISTANCE OF 10' FROM THE WORKING FACE. NO OVERBURDEN SHALL BE PLACED IN ACTIVE STREAMS.
4. SLOPE THE CUT BANK OF THE OVERBURDEN TO THE NATURAL ANGLE OF REPOSE BUT IN NO CASE STEEPER THAN 1:1.
5. WITHIN THE CLEARING LIMITS:
 - * MAXIMUM STUMP HEIGHT SHALL BE 18".
 - * STABLE TREES UP TO 6" dbh NEED NOT BE CUT IF THEY WILL NOT INTERFERE WITH BACK SLOPE STABILITY.
 - * STUMPS AND BRUSH MAY BE LEFT IN PLACE, EXCEPT THAT ALL STUMPS THAT PROTRUDE FROM EXCAVATED BANKS OR THAT HAVE THE POTENTIAL TO BECOME DISLODGED AT ANY LATER DATE SHALL BE REMOVED.
6. DISPOSE OF OR STOCKPILE FOR LATER USE ALL OVERBURDEN, CLEARING, MERCHANTABLE TIMBER AND GRUBBING DEBRIS AS SHOWN ON THE QUARRY DEVELOPMENT PLAN. SORT AND STOCKPILE ANY USABLE TOPSOIL.
7. FELL ALL DEAD TREES AND SNAGS WHICH ARE SUFFICIENTLY TALL TO REACH THE WORK AREA.
8. LEAVE THE QUARRY IN A NEAT, ORDERLY AND WELL-DRAINED CONDITION. REMOVE ALL OVERHANGS AND LOOSE ROCK.
9. ACCESS RAMPS TO THE UPPER LEVELS SHALL BE CONSTRUCTED AND SHALL BE LOCATED AS APPROVED BY THE ENGINEER. SAID RAMPS SHALL REMAIN AS FIXED FEATURES PROVIDING PERMANENT ACCESS TO THE UPPER LEVELS UNLESS AUTHORIZED TO BE RELOCATED BY THE ENGINEER.
10. LEAVE NO MORE THAN 5% BY VOLUME OF OVERSIZE MATERIAL IN THE QUARRY. BREAK DOWN ANY MATERIAL OVER THIS VOLUME AND USE AS SPECIFIED IN SECTION 611.
11. PROVISIONS FOR FUTURE QUARRY DEVELOPMENT ACCESS WILL BE PROVIDED.
12. HAUL WILL NOT BE ALLOWED BEYOND DESIGNATED PROJECT LIMITS UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR AGREED TO BY THE ENGINEER.

BLASTING PLAN:

1. BLASTING PLAN SHALL BE SUBMITTED BY CONTRACTOR 2 WEEKS PRIOR TO SCHEDULED USE FOR APPROVAL BY ENGINEER AND USFS.
2. A TEST SHOT OF 1300 TO 2600 CUBIC YARDS IS REQUIRED AT THE QUARRY SITE. RESULTS TO BE EVALUATED AND VERIFIED BY ENGINEER AND USFS PRIOR TO APPROVAL FOR PRODUCTION BLASTING.

REHABILITATION PLAN:

1. ACCESS TO THE PIT FOR FUTURE USE SHALL BE RETAINED BUT RESTRICTED BY PLACING 500 LB. MINIMUM BOULDERS ACROSS PIT ACCESS POINTS.
2. PLACE REMAINING OVERSIZED ROCKS PRODUCED AGAINST THE SIDES OF THE QUARRY NEXT TO THE BACKWALL BENCH.
3. ALL DISTURBED AREAS, SUCH AS OVERBURDEN CUT SLOPES AND NEWLY CREATED OVERBURDEN PILES WILL BE SEEDED AND FERTILIZED IN ACCORDANCE WITH SECTION 618.
4. SEE USFS MEMORANDUM OF AGREEMENT WITH DOT&PF FOR PERMIT CONDITIONS TO BE MET FOR REHABILITATION AND CLEANUP OF PIT.

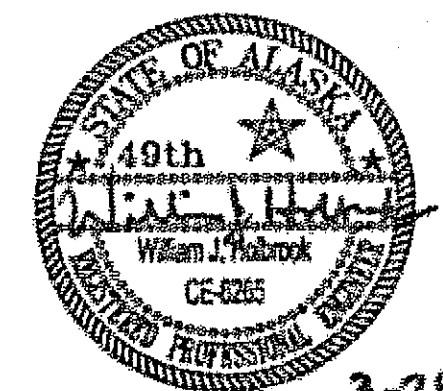
PATH: Q:\Pag\68896\PlanSet\BRIDGE\R1_USFS QUARRY
 Mon, 20/Mar/06 01:44PM wmbickok
 TAB: R1

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896

**USFS QUARRY
 DEVELOPMENT PLAN**

DESIGNED BY: B. HOLBROOK



CHECKED BY: J. HEUMANN
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO: 68896

**USFS QUARRY
 DEVELOPMENT PLAN**

PROJECT DESIGNATION NUMBER

BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006
SHEET NUMBER	TOTAL SHEETS
R1	30

As-Built 5-11-07 co

SUMMARY OF TEST HOLES		
TEST HOLE DESIGNATION	STATION	OFFSET
TH B-1	1057+65.00	4.20' RT
TH B-2	1056+44.10	5.80' LT
P-1	1056+61.50	5.80' RT
P-2	1057+58.20	6.10' LT

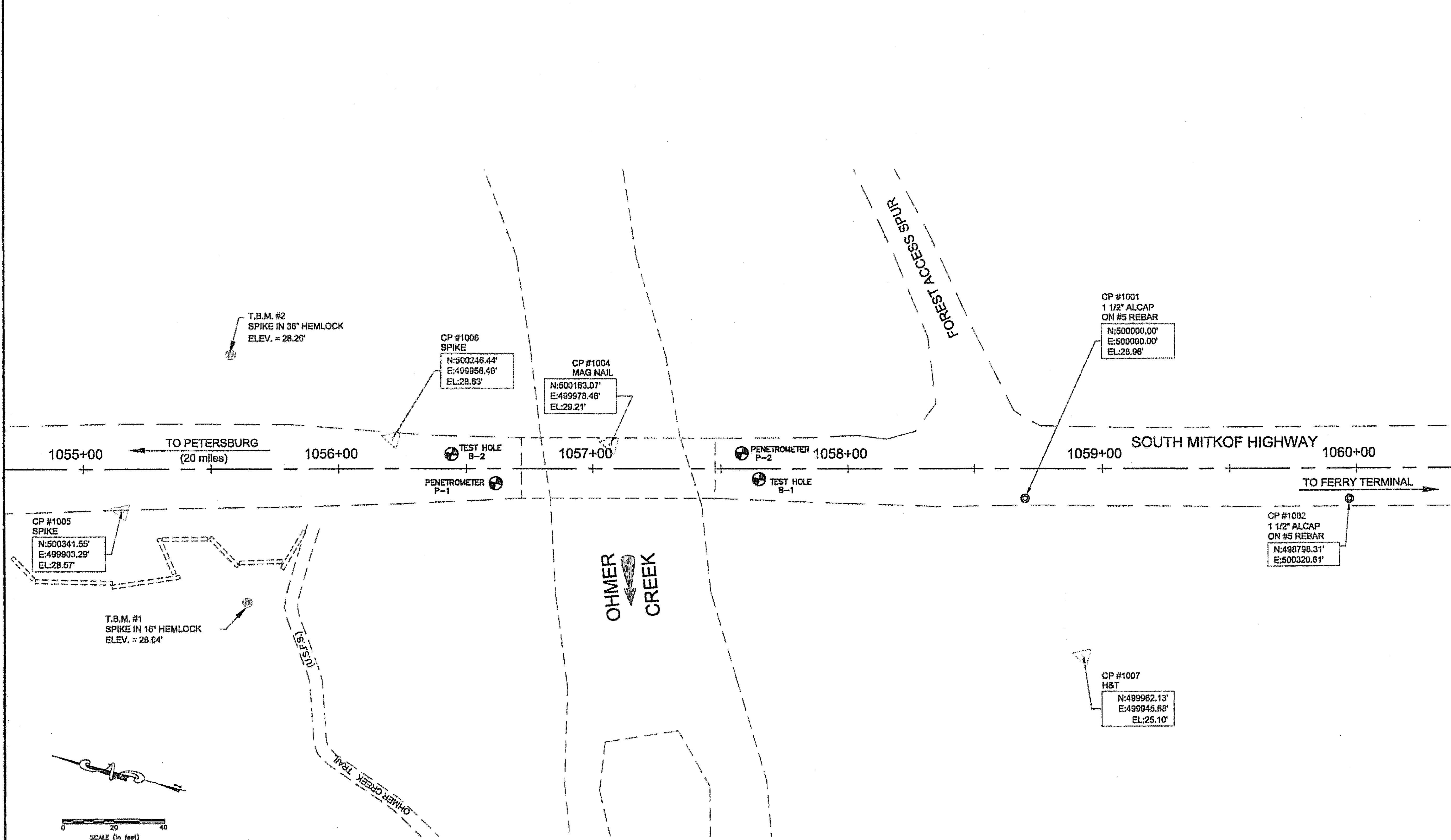
GENERAL NOTES:

- TEST HOLE AND PENETROMETER DATA FOR THE TEST HOLE AND PENETROMETER LOCATIONS ILLUSTRATED BELOW CAN BE FOUND IN THE GEOTECHNICAL REPORT FOR OHMER CREEK BRIDGE IN APPENDIX E OF THE CONTRACT DOCUMENTS.

PATH:
Q:\Pag\68896\Planset\BRIDGE\SB_TEST HOLE
Wed, 22/Mar/06 03:44PM rgrantham

TAB: S8		
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

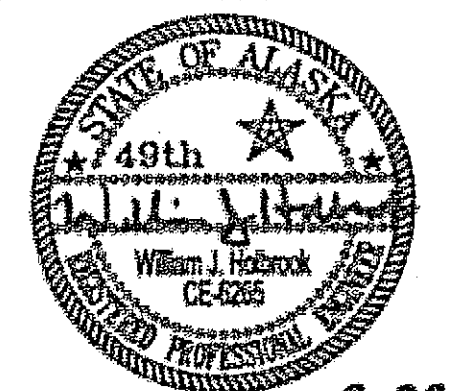
PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE REPLACEMENT
 PROJECT NO. 68896
**OHMER CREEK
 TEST HOLE / PENETROMETER
 LOCATIONS**



PLAN VIEW

As-Built 5-1-07 cp

DESIGNED BY: BRUCE BRUNETTE



CHECKED BY: J. HEUMANN
 DRAWN BY: R. GRANTHAM

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 DESIGN & ENGINEERING SERVICES
 DIVISION - SE REGION
 PSG-MITKOF HIGHWAY
 OHMER CREEK BRIDGE
 REPLACEMENT
 PROJECT NO. 68896

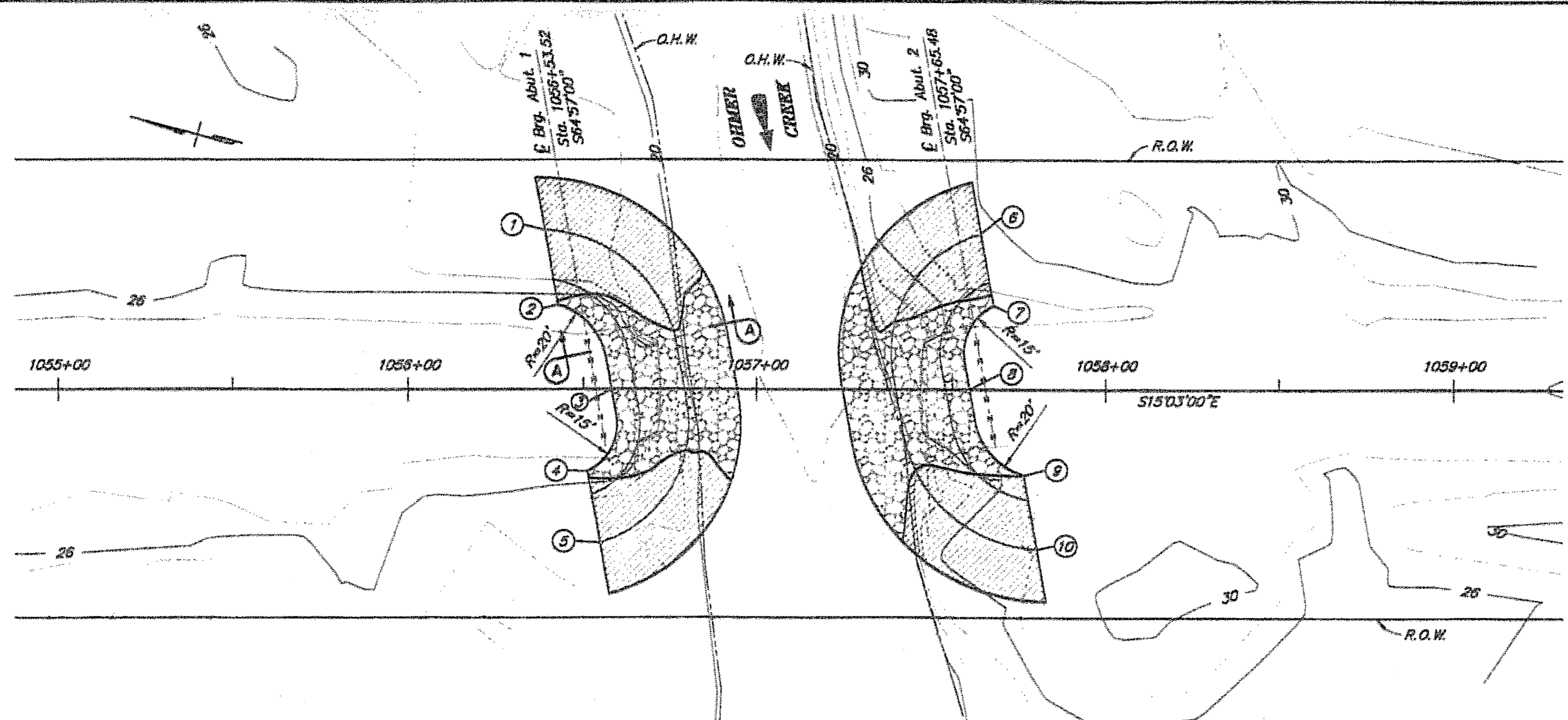
**OHMER CREEK
 TESTHOLE/PENETROMETER
 LOCATIONS**

PROJECT DESIGNATION NUMBER
BR-0937(32) ~ 68896

STATE	YEAR
ALASKA	2006

SHEET NUMBER	TOTAL SHEETS
S8	30

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0937(32)/68896	2006	92	98



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, $a = 0.06 g$
 Site Coefficient, $s = 1.0$
 Liquefaction Potential = low
 AASHTO 90% probability of not being exceeded in 50 years.

REINFORCEMENT:.....ASTM A706, $F_y = 60,000$ psi
 Space reinforcement evenly unless otherwise noted.

PRESTRESSED CONCRETE:.....See "GIRDER" Dwg.

CONCRETE:.....Use Class A Concrete concrete unless otherwise noted,
 $f'_c = 4000$ psi

STRUCTURAL STEEL:.....ASTM A709, Grade 36, $F_y = 36,000$ psi.
 Galvanize all structural steel.

PILING:.....ASTM A709, Grade 50T3, $F_y = 50,000$ psi.
 Pile tip protection is required.

LOCATION	PILE TYPE	MINIMUM TIP ELEVATION, FT.	ESTIMATED TIP ELEVATION, FT.	DESIGN LOAD, kips	ULTIMATE CAPACITY, kips
Abutment 1	HP 14x117	0.0	-19.0	171	385
Abutment 2	HP 14x117	0.0	-19.0	171	385

POINT	STATION	OFFSET
1	1056+38.80	45.80' Lt.
2	1056+42.60	24.30' Lt.
3	1056+58.10	0
4	1056+51.10	23.70' Rt.
5	1056+54.80	44.40' Rt.
6	1057+64.20	44.80' Lt.
7	1057+67.80	24.10' Lt.
8	1057+60.90	0
9	1057+76.40	24.70' Rt.
10	1057+80.20	46.20' Rt.

ABBREVIATIONS:

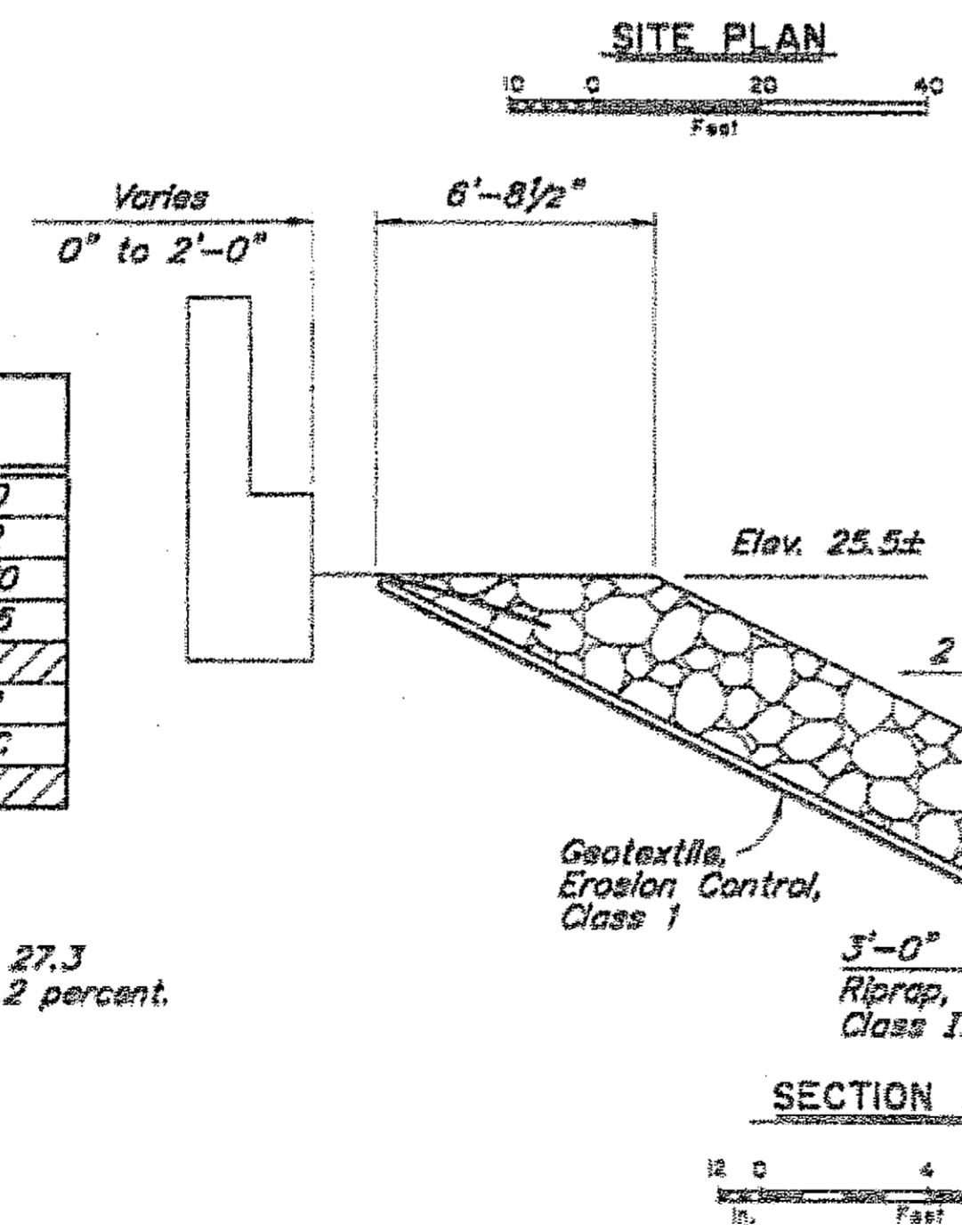
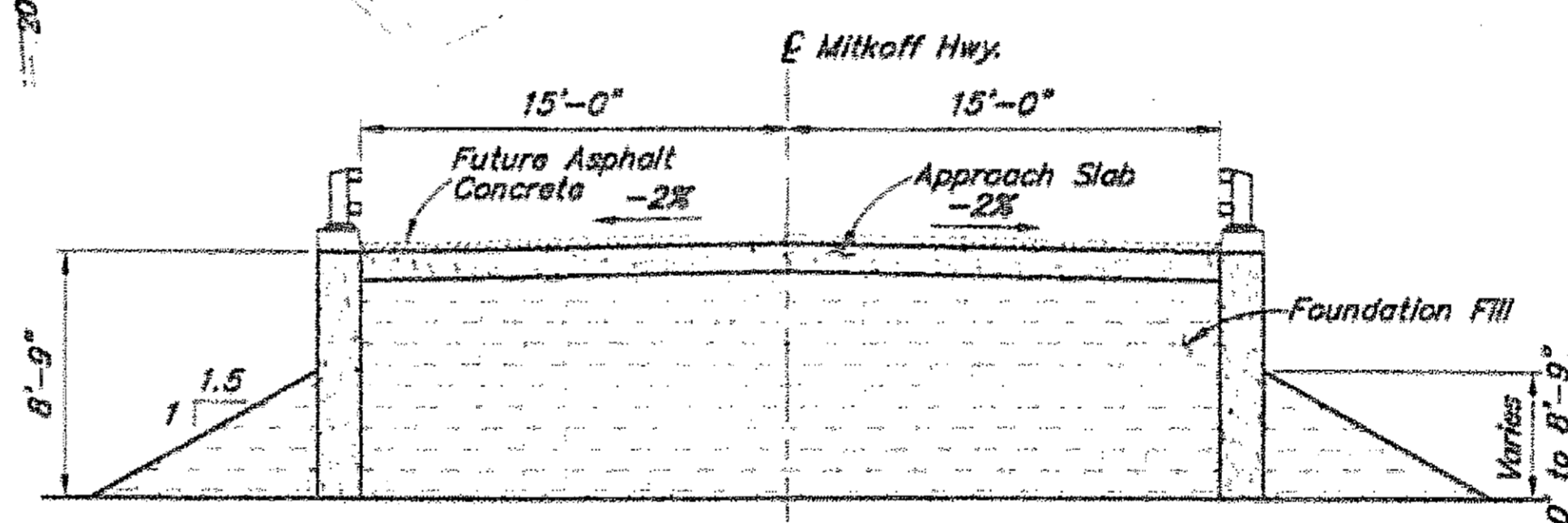
- C = Centerline
- Pl = Plate
- & = and
- @ = at
- Ø = diameter
- A/C = asphalt concrete
- Approx. = approximate
- Abut. = Abutment
- bot. = bottom
- Br. = bridge
- btwn. = between
- Brg. = Bearings
- C.I.P. = cast in place
- C.J.P. = complete joint penetration
- Clr. = clear, clearance
- dia. = diameter
- Dwg. = drawing
- Elev. = elevation
- e.f. = each face
- E = expansion bearing
- F = fixed bearing
- f.f. = for face
- Hwy. = highway
- jt. = joint
- kaf = kips per square foot
- Lt. = left
- max. = maximum
- min. = minimum
- n.a. = not applicable
- n.f. = near face
- No. = number
- N/C = not calculated
- NIC = not in contract
- O.H.W. = Ordinary High Water
- psf = pounds per square foot
- psl = pounds per square inch
- R.O.W. = right of way
- Rt. = right
- S.I.P. = stay in place
- spa. = space, spaces
- Sta. = station
- Symm. = symmetric
- Typ. = typical
- UT = ultrasonic testing
- Yr. = year
- w/ = with

HYDRAULIC & HYDROLOGIC SUMMARY			
Flood Frequency (Yr.)	50	100	500
Exceedance Probability (%)	2	1	0.2
Discharge (ft^3/sec)	2650	2940	3670
Water Surface Elevation (ft)	24.5	24.8	25.5
Anticipated Add'l Backwater (ft)		0.0	
Contraction Scour (ft)		0.0	0.2
Abutment Scour (ft)		N/C	N/C
Pier Scour (ft)			

Drainage Area for this crossing: 8.1 square miles.

Hydraulic Capacity: 6,200 cfs at Low Superstructure Elevation 27.3 which has an exceedance probability of equal to or less than 0.2 percent.

Total scour equals contraction scour + local scour.

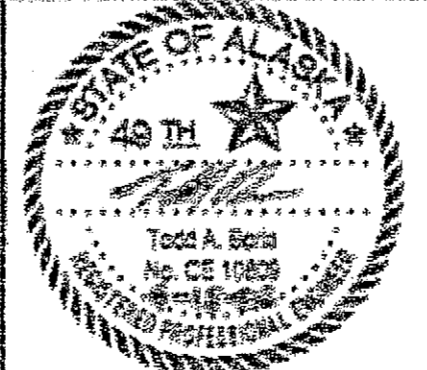


NOTE:
 * Excavate to top of hard glacial till approx. Elev. 14.5 or to max. depth of 5 ft.

Area to be backfilled with native material after riprap placement.

As-Built 5-11-07

DESIGNED BY: Todd Boris	CHECKED: Peter Glassel	HYDRAULICS BY: Anna Castle	CHECKED BY: Mark Misa	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES BRIDGE SECTION	OHMER CREEK BRIDGE MITKOF HIGHWAY SITE PLAN	BRIDGE NO. 388 DWG. NO. 2
DRAWN BY: Sam Salie Jr.	CHECKED: Todd Boris	FOUNDATIONS REVIEWED BY: Bruce Brunette				
QUANTITIES BY: Todd Boris	CHECKED: Peter Glassel					

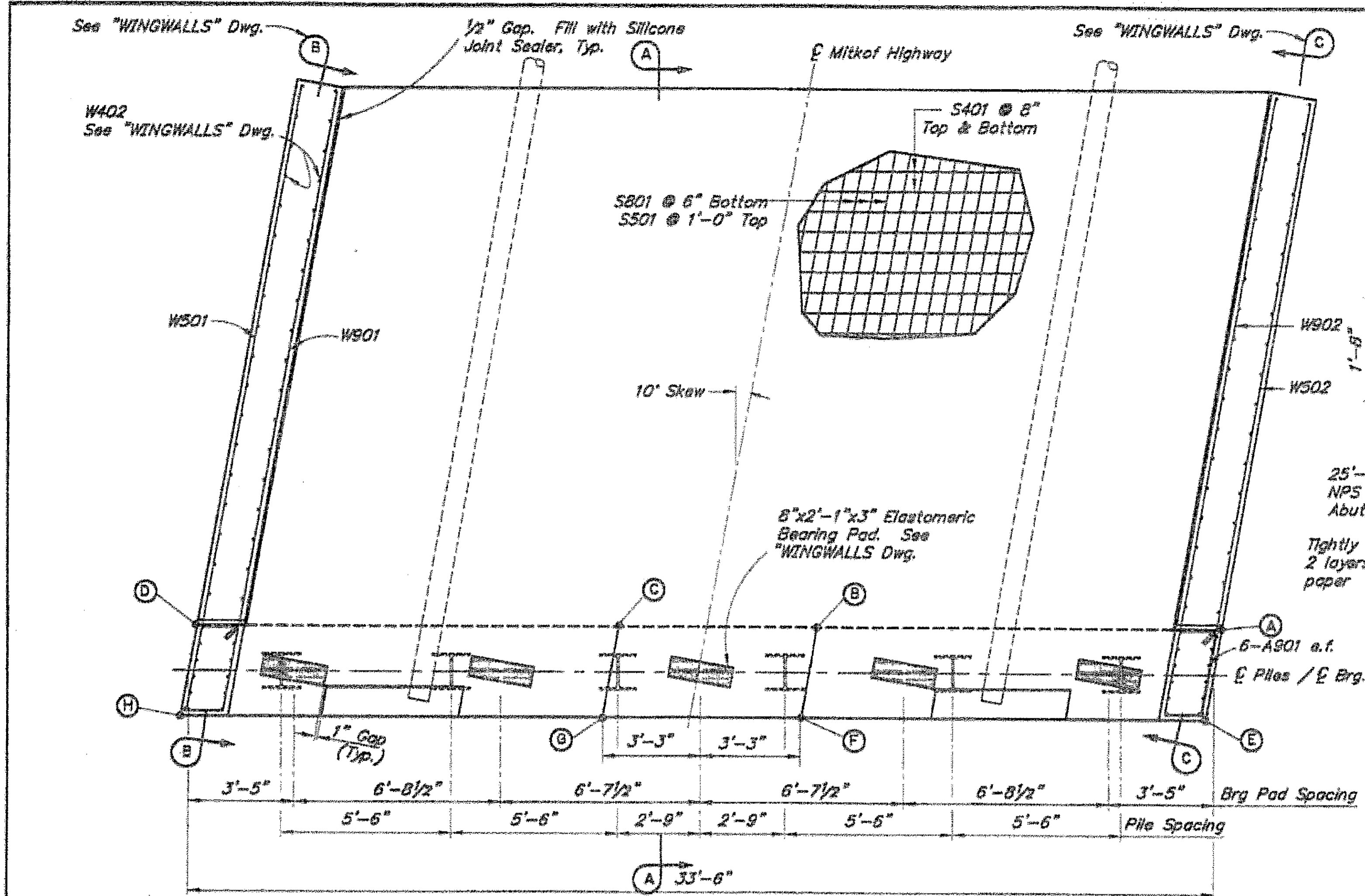
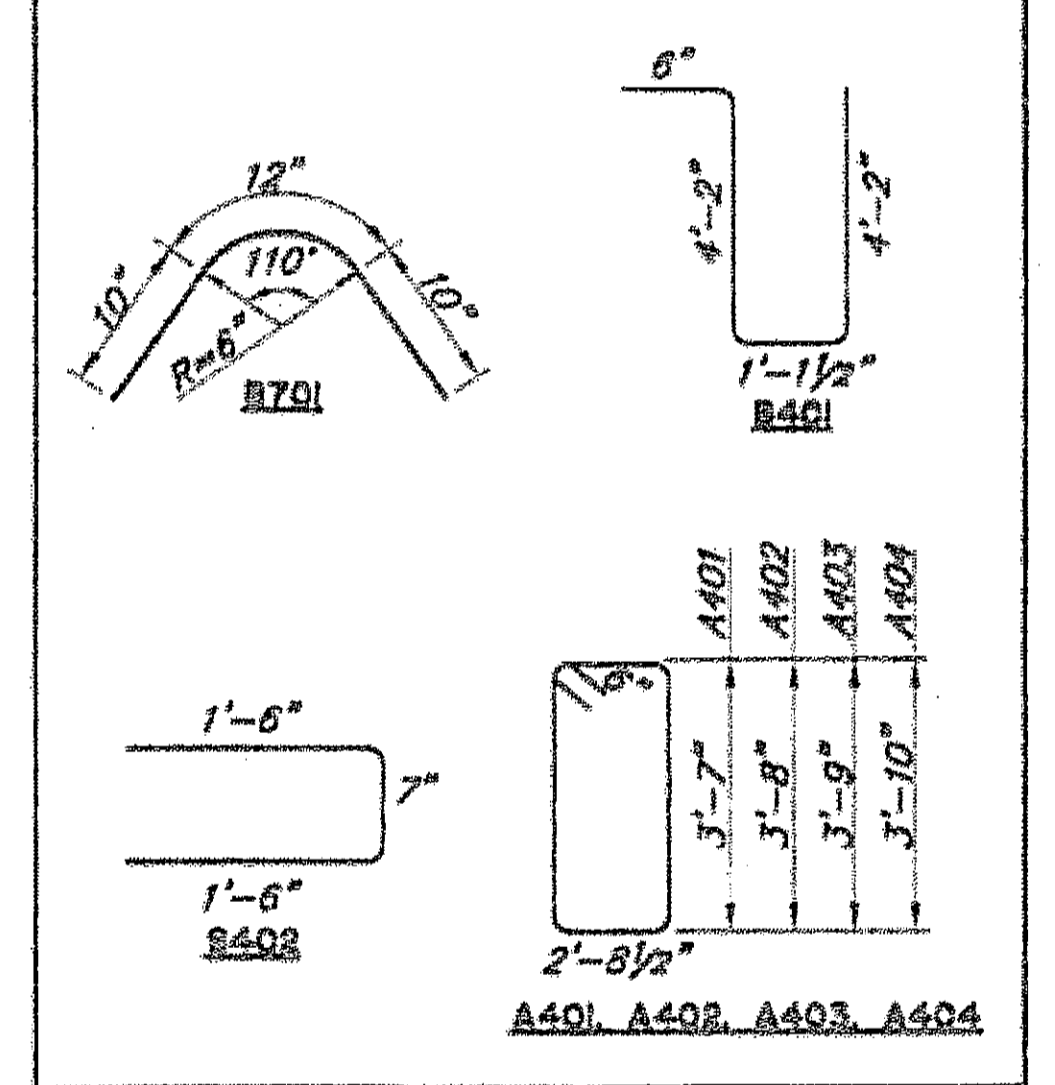


STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0937(32)/88896	2006	53	58

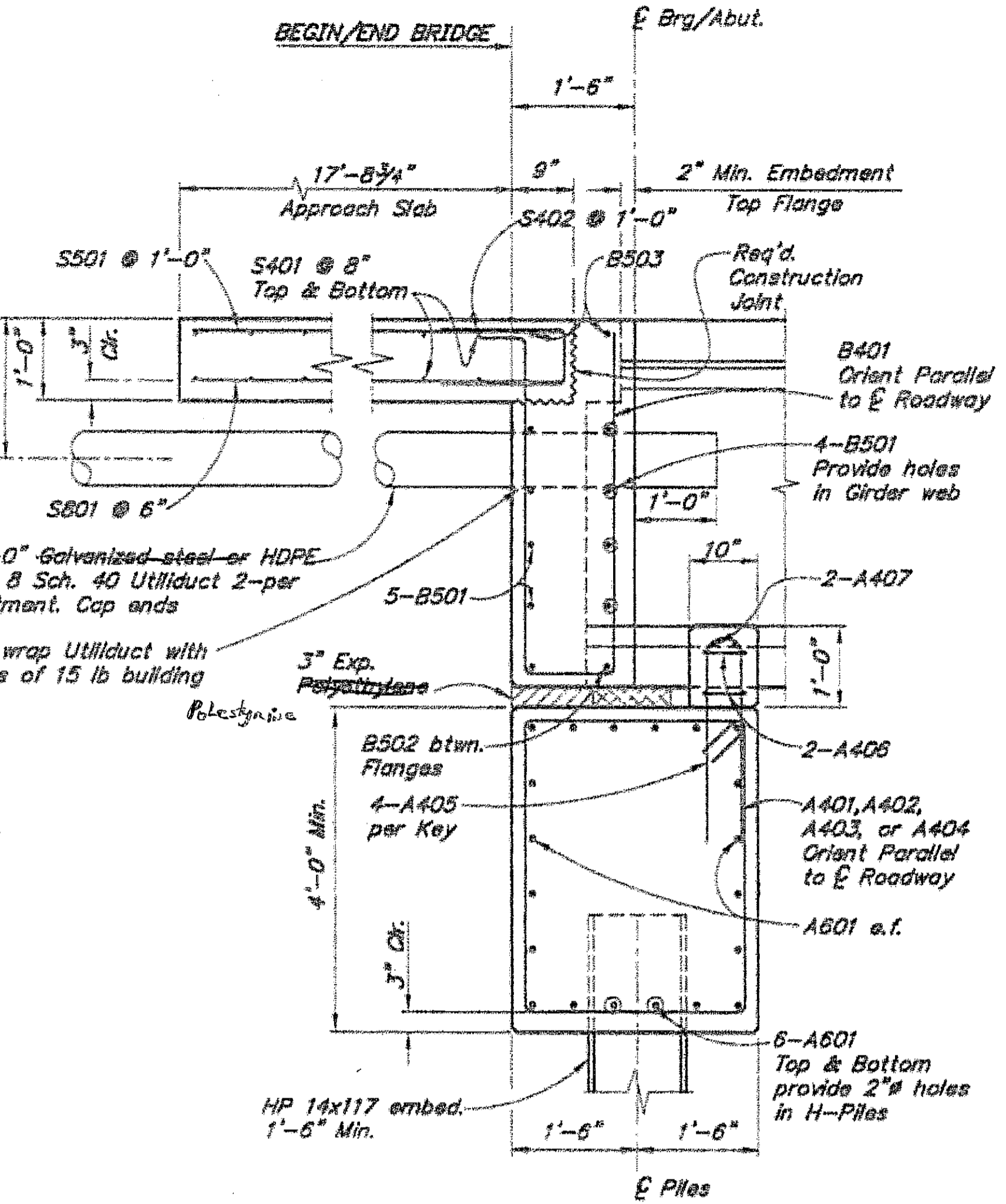
REINFORCING STEEL - I ABUTMENT

MARK	SIZE	NO.	LENGTH	TYPE
A401	4	6	13'-7"	Bent
A402	4	12	13'-9"	Bent
A403	4	12	13'-11"	Bent
A404	4	6	14'-1"	Bent
A405	4	8	5'-5"	Bent
A406	4	4	10'-0"	Bent
A407	4	4	3'-11"	
A501	6	20	33'-2"	
A901	9	24	7'-5"	
a B401	4	26	9'-11 1/2"	Bent
a B501	5	9	29'-9"	
a B502	5	4	4'-4"	
a B503	5	2	33'-2"	
a B701	7	8	2'-8"	Bent
a S401	4	54	30'-0"	
a S402	4	30	3'-7"	Bent
a S501	5	30	18'-5"	
a S801	8	60	18'-5"	

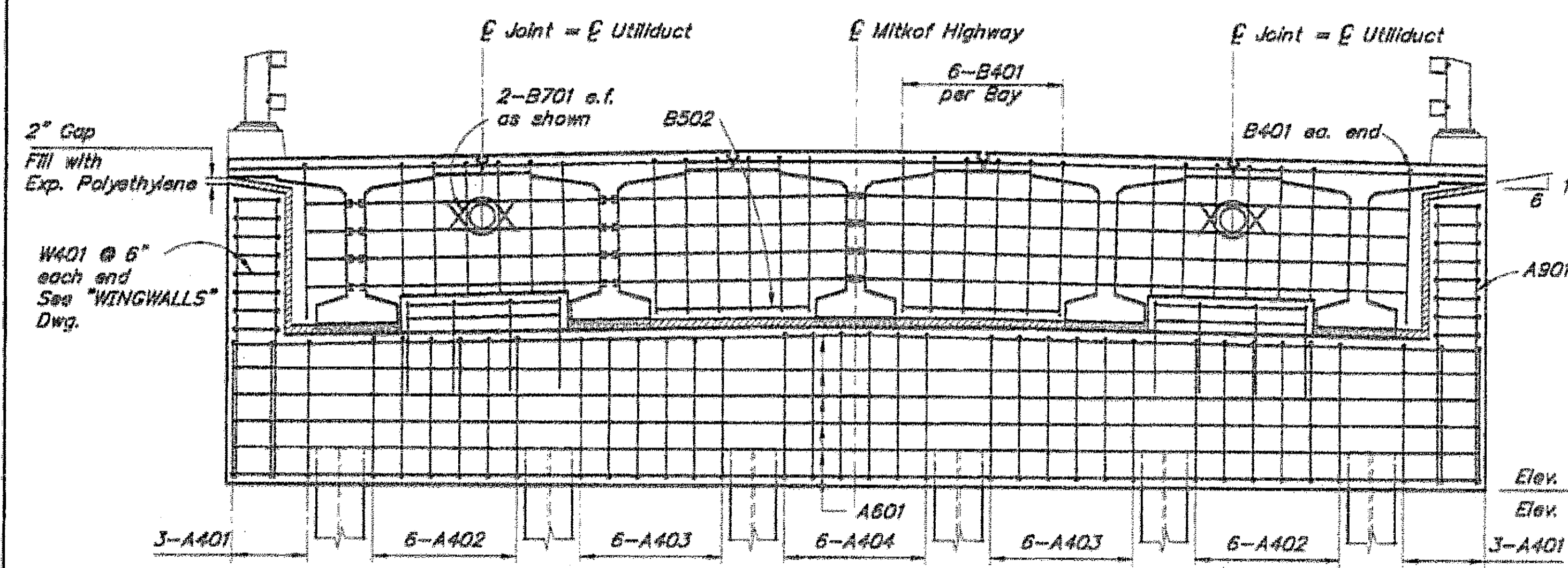
BENDING DIAGRAM



PLAN
0 1 2 3 4
Feet



SECTION A-A
0 1 2 3
Feet



ELEVATION
0 1 2 3 4
Feet

TOP OF CAP ELEVATIONS

POINT	ABUTMENT 1	ABUTMENT 2
A	26.99	27.61
B	27.27	27.86
C	27.27	27.86
D	27.02	27.58
E	27.01	27.59
F	27.29	27.85
G	27.29	27.85
H	27.03	27.56

* ALL As-Built Elevations are 0.25 Higher than shown in the table.

DESIGNED BY: <i>Todd Barz</i>	CHECKED: <i>Peter Glassel</i>
DRAWN BY: <i>Sam Solie</i>	CHECKED: <i>Todd Barz</i>
QUANTITIES BY: <i>Todd Barz</i>	CHECKED: <i>Peter Glassel</i>

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



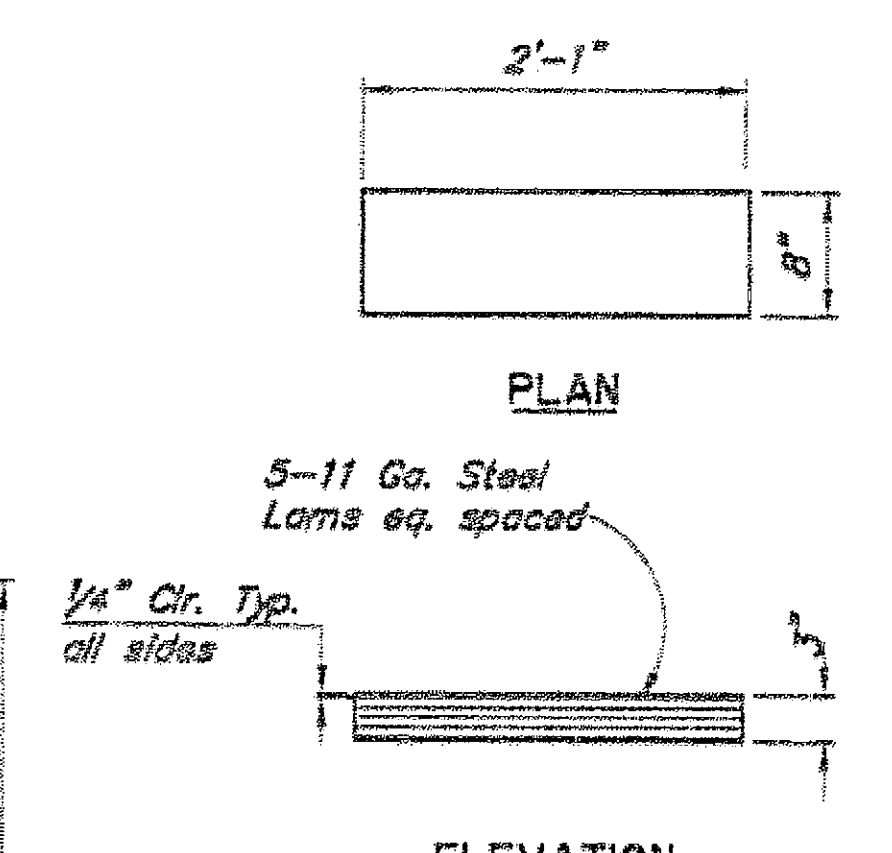
OHMER CREEK BRIDGE
MITKOF HIGHWAY
ABUTMENTS

BRIDGE NO. 388
DWG. NO. 3

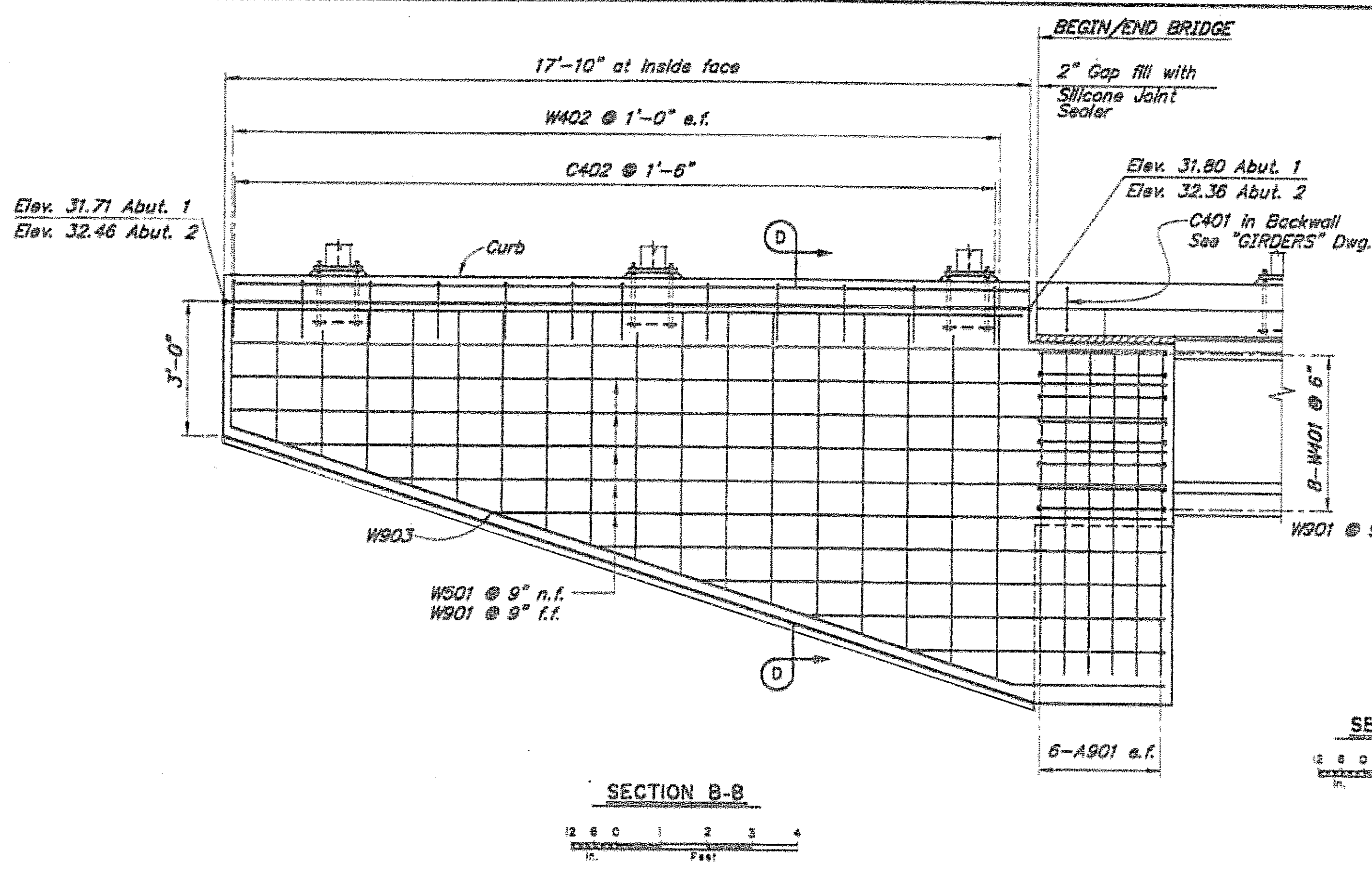
As-Built 5-11-07 co

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0937(32)/68896	2006	54	58

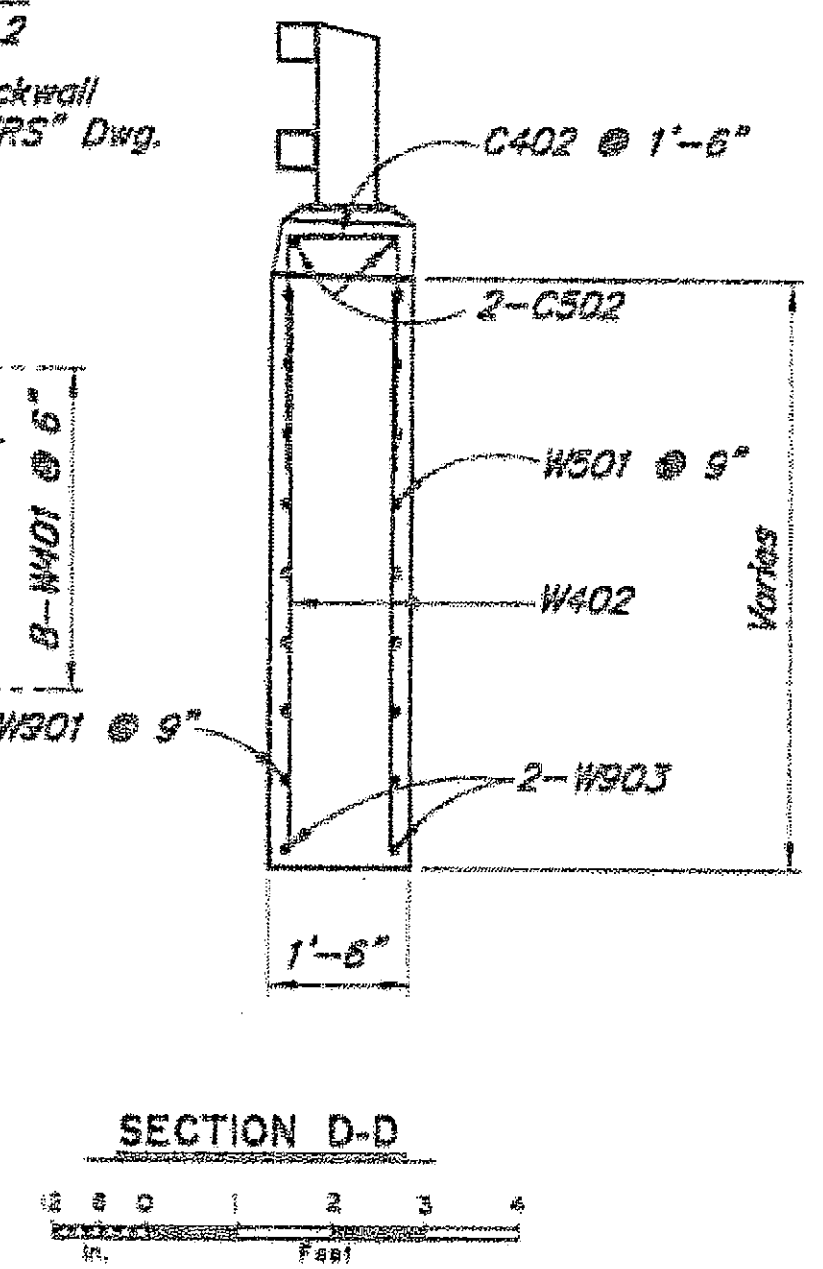
REINFORCING STEEL-ONE ABUTMENT					BENDING DIAGRAM
MARK	SIZE	NO.	LENGTH	TYPE	
W401	4	16	9'-0"	Bent	
W402	4	72	Varies	-	
W501	5	11	Varies	-	
W502	5	11	Varies	-	
W901	9	11	Varies	-	
W902	9	11	Varies	-	
W903	9	4	21'-6"	Bent	
C402	4	24	6'-1"	Bent	
C502	5	2	17'-6"	-	
C503	5	2	17'-3"	-	



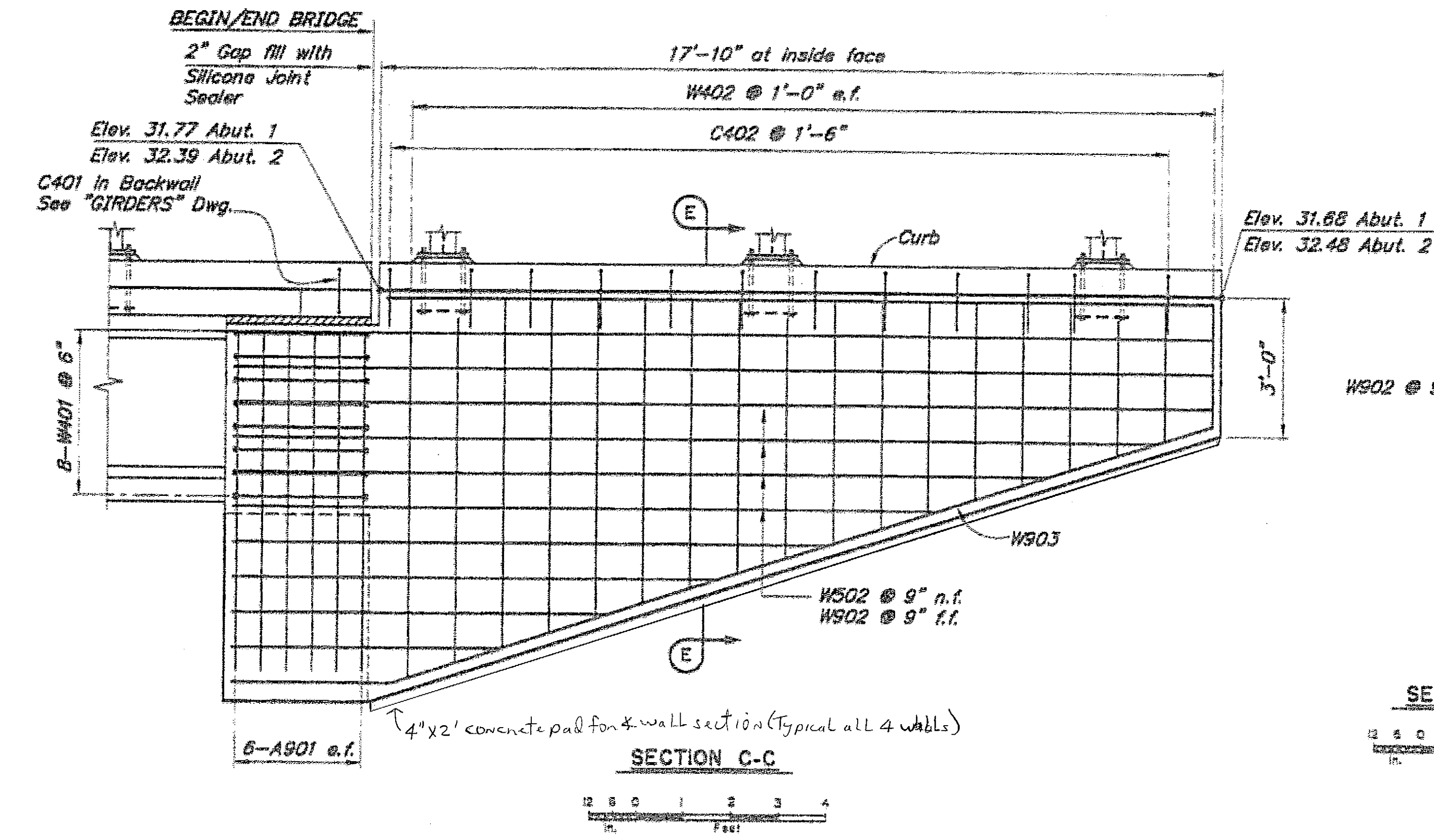
ELASTOMERIC BEARING PAD
 No Scale
 50 Durometer hardness
 Design Dead Load Reaction = 84 kips
 Design Live Load Reaction = 78 kips



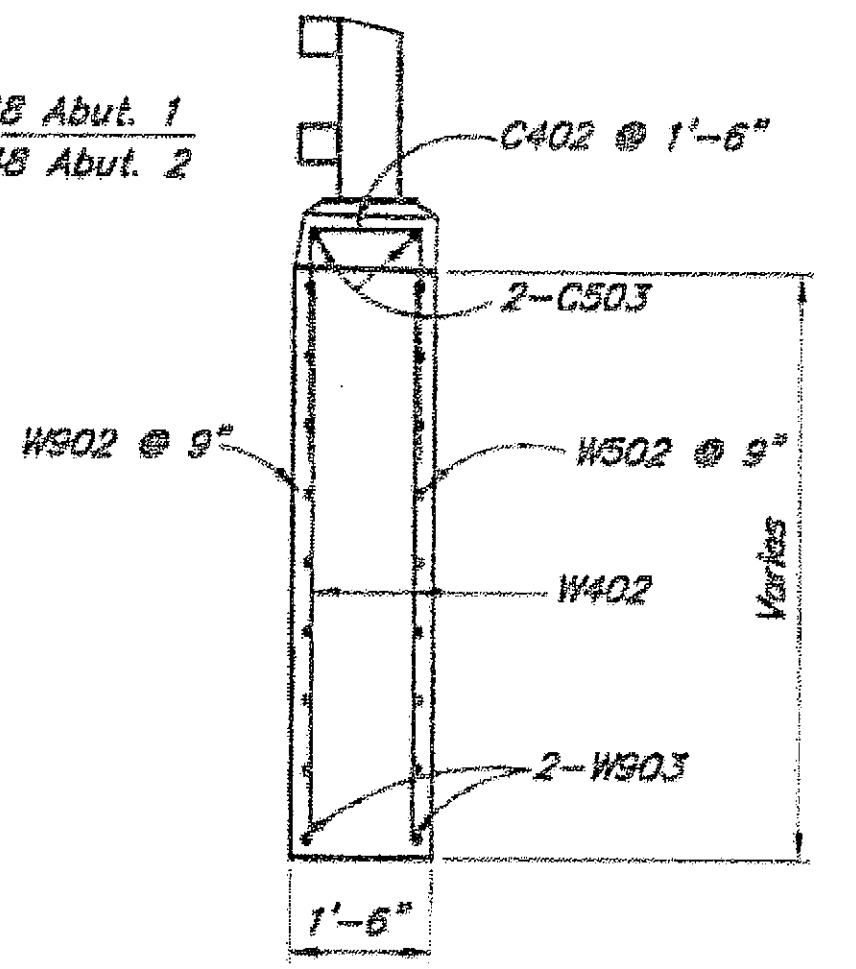
SECTION B-B
 1 2 3 4
 Feet



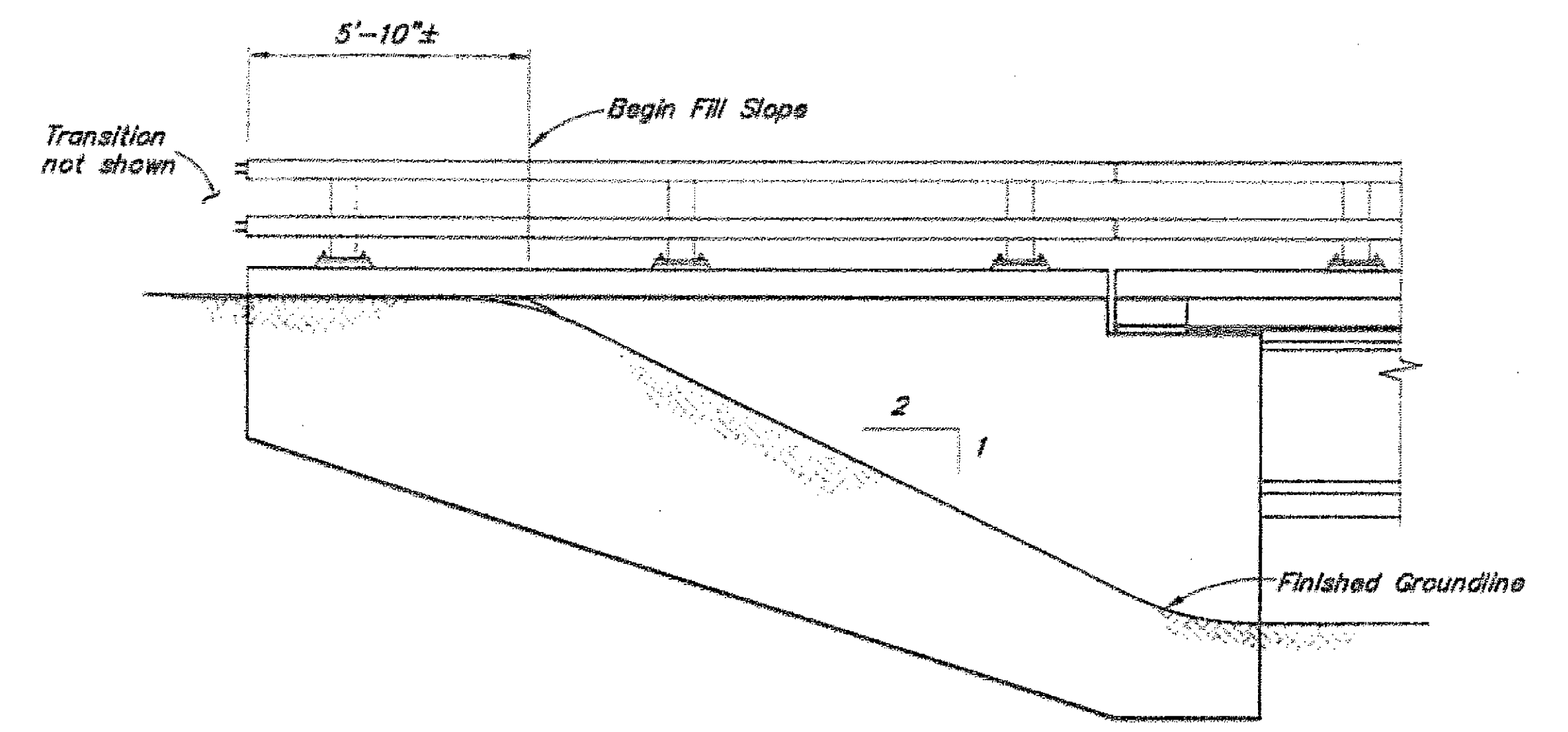
SECTION D-D
 1 2 3 4
 Feet



SECTION C-C
 1 2 3 4
 Feet



SECTION E-E
 1 2 3 4
 Feet

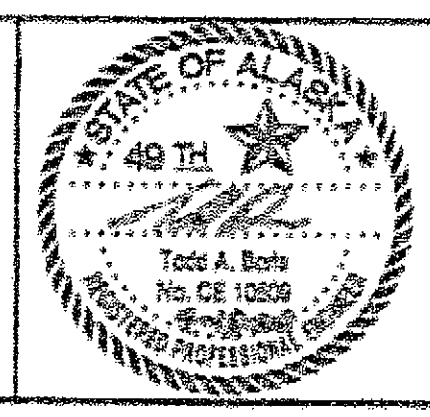


FINISHED GROUND LINE DETAIL
 1 2 3 4
 Feet

As-Built 5-11-07

DESIGNED BY: Todd Baris	CHECKED: Peter Glasser
DRAWN BY: Sam Solie Jr.	CHECKED: Todd Baris
QUANTITIES BY: Todd Baris	CHECKED: Peter Glasser

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 BRIDGE SECTION

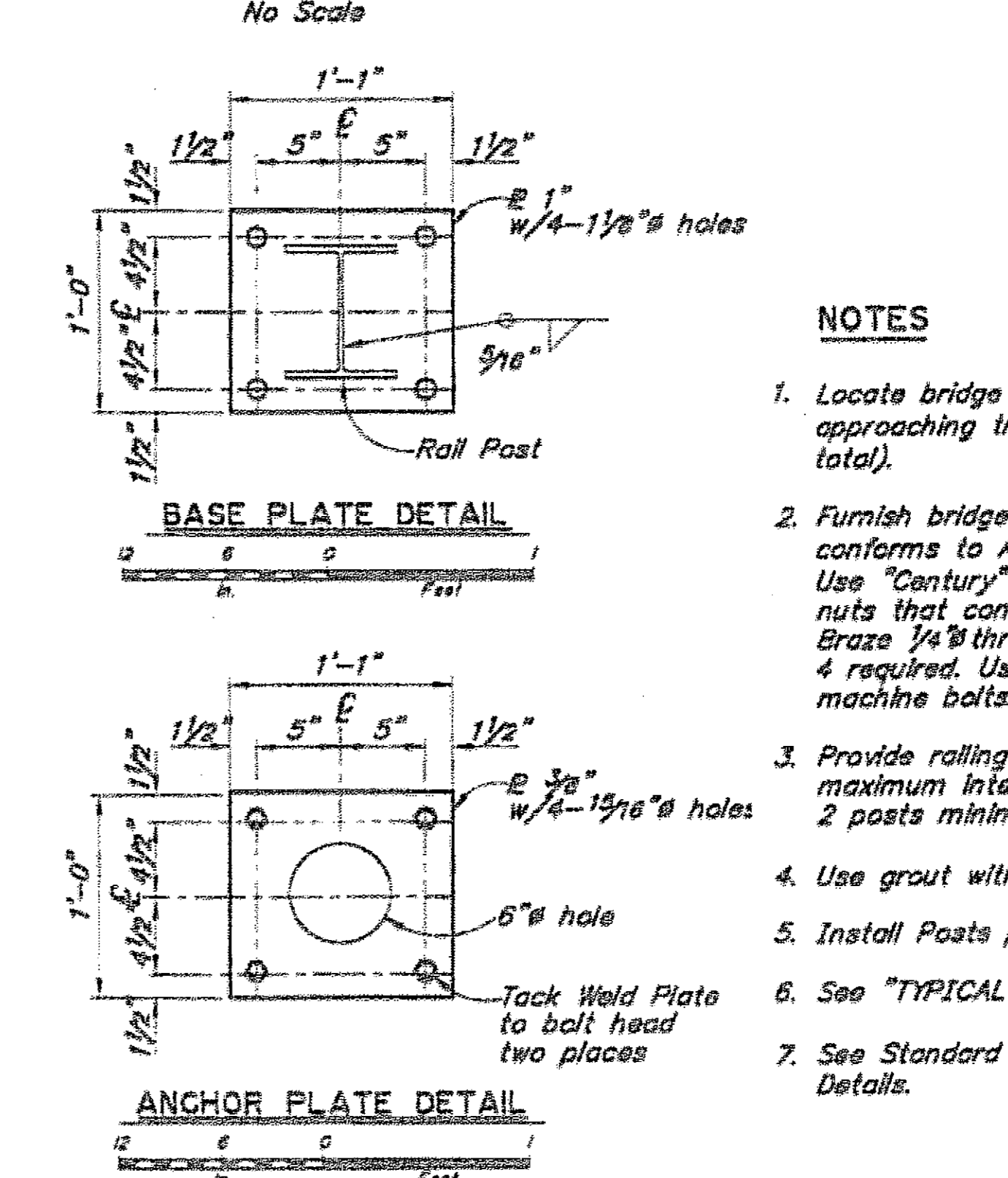
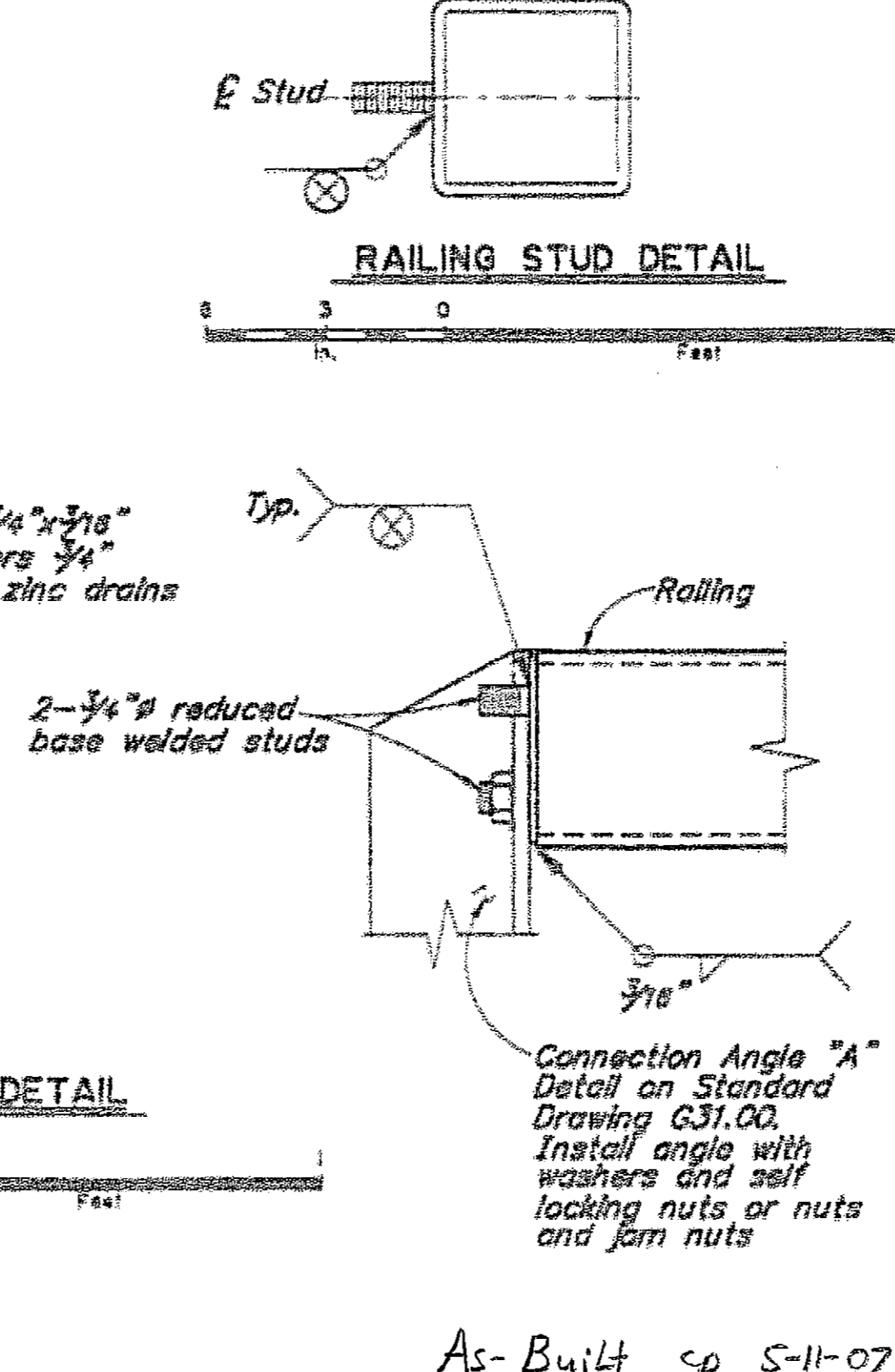
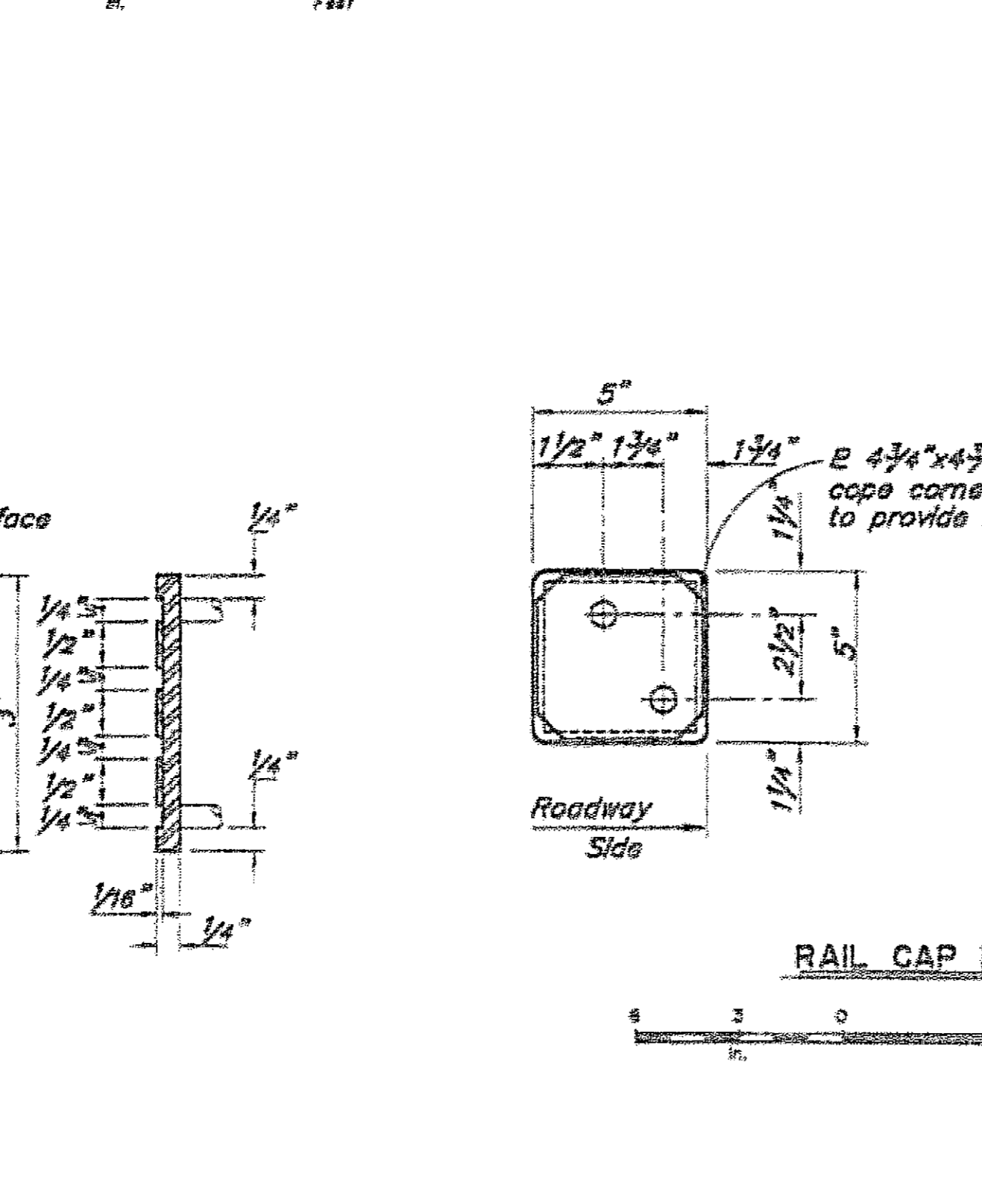
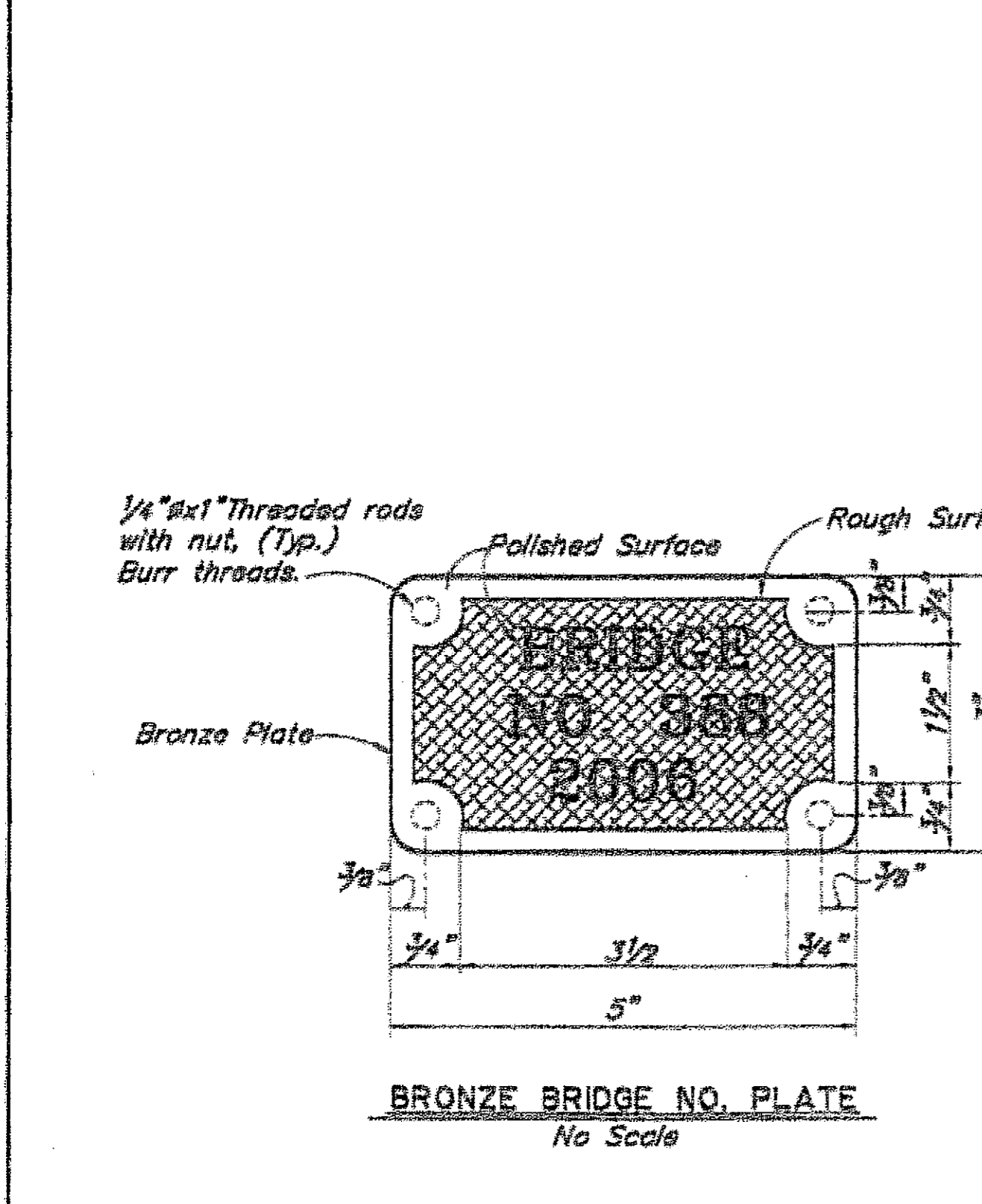
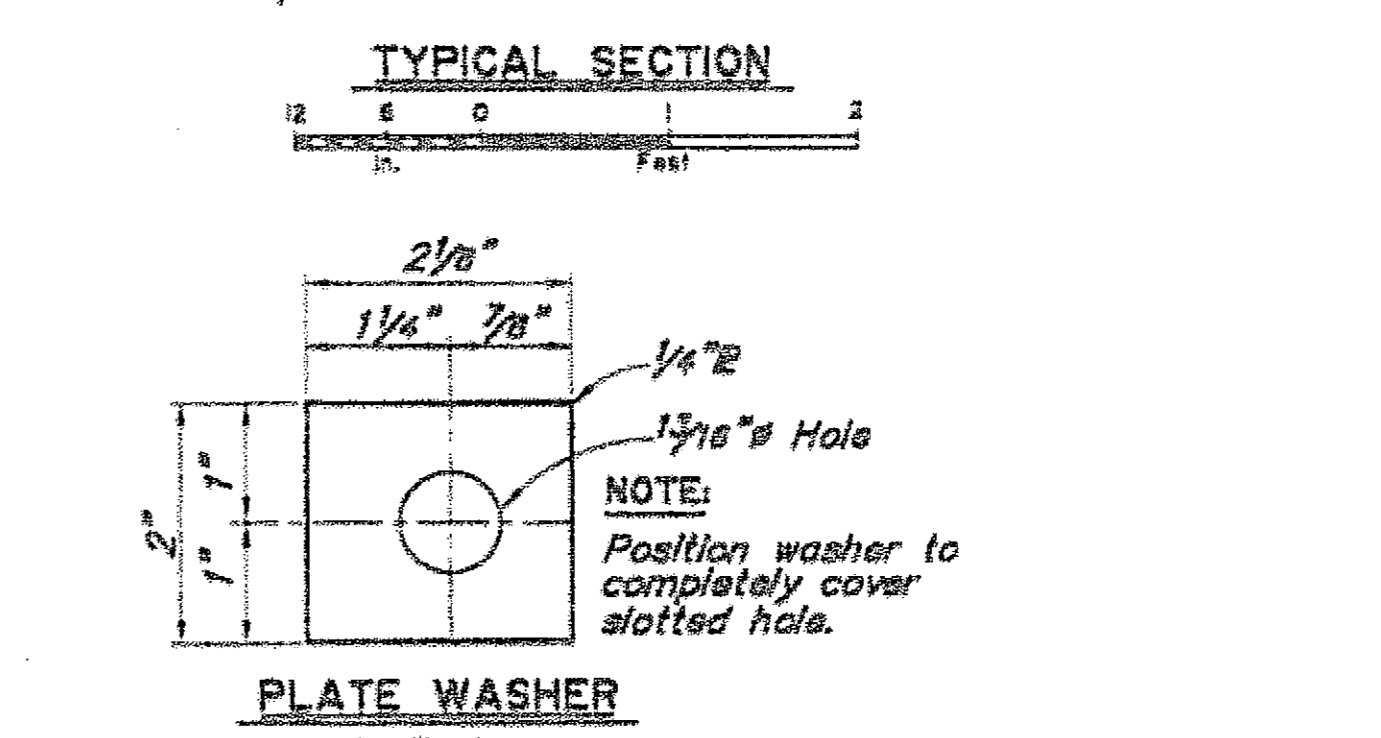
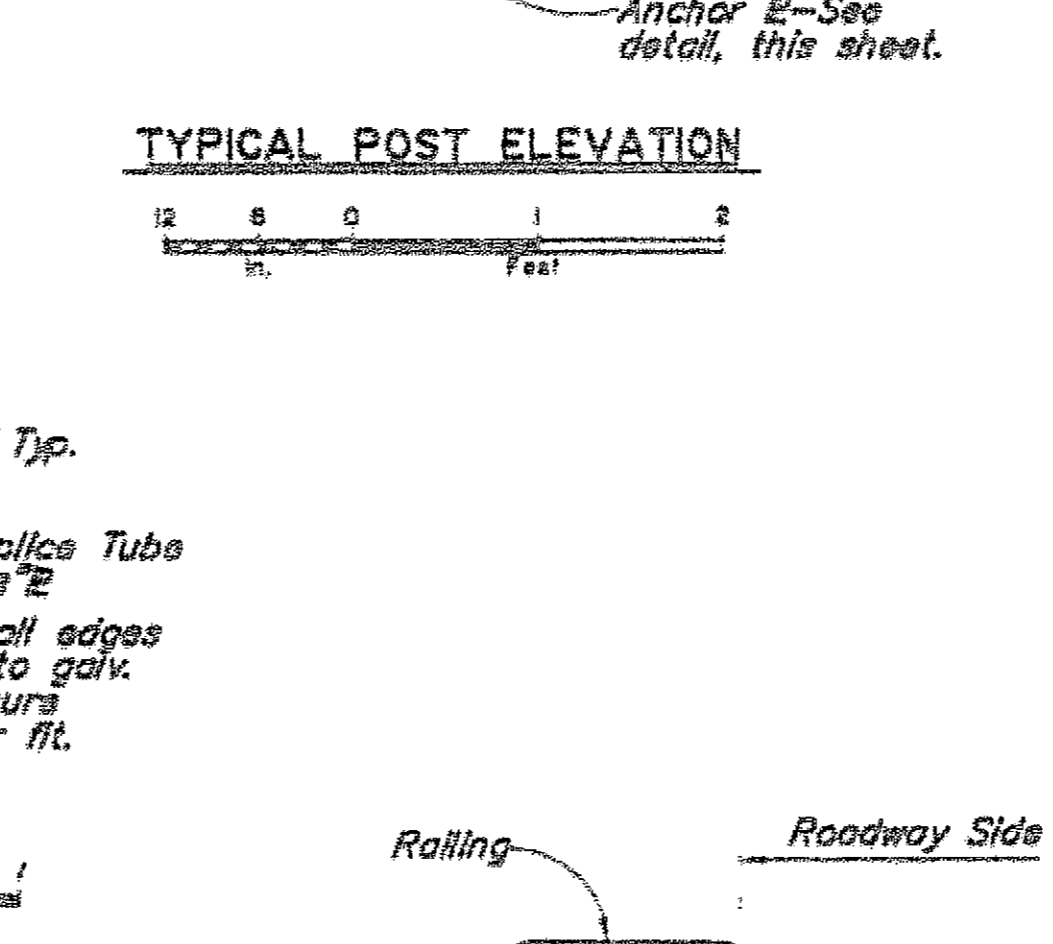
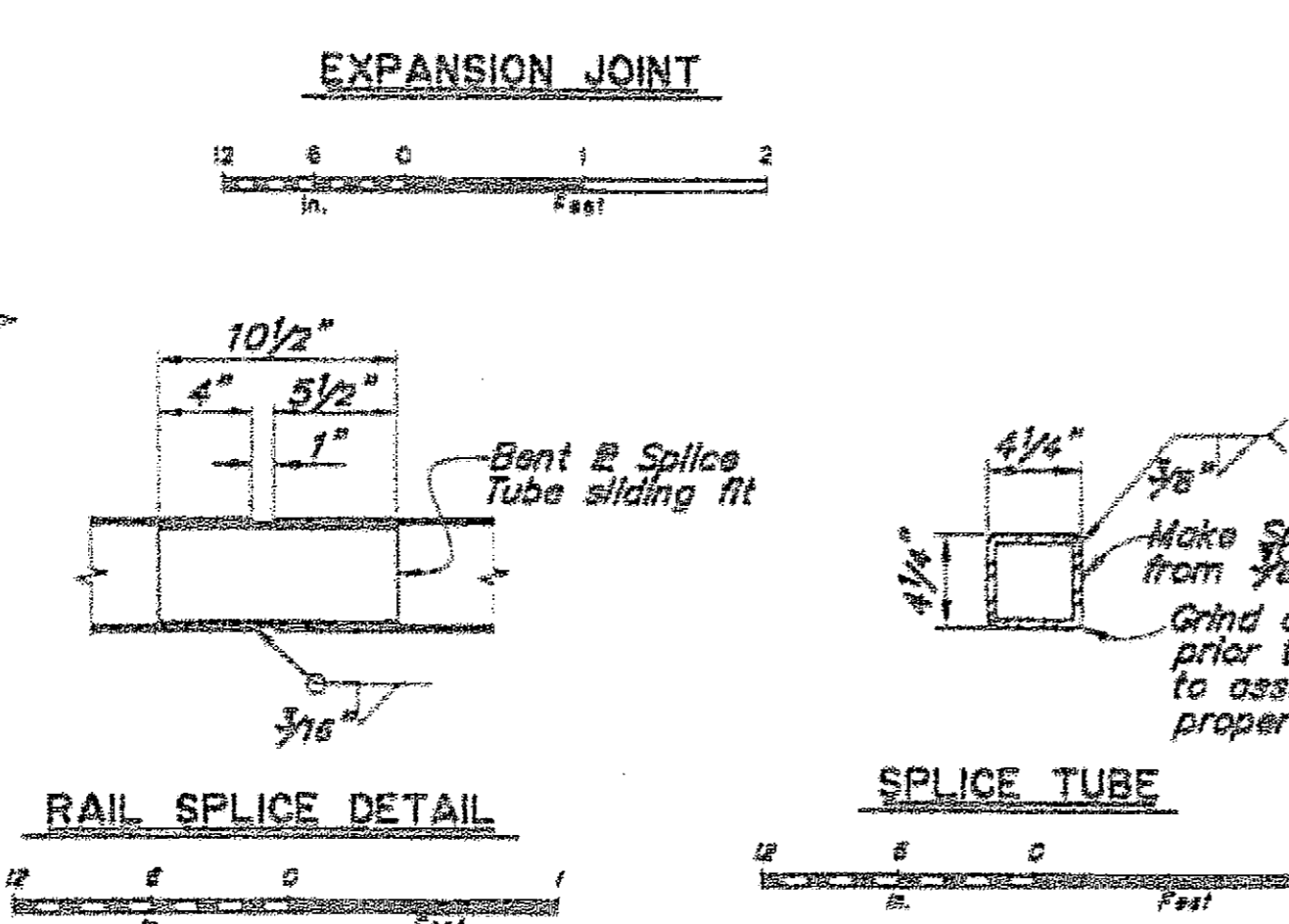
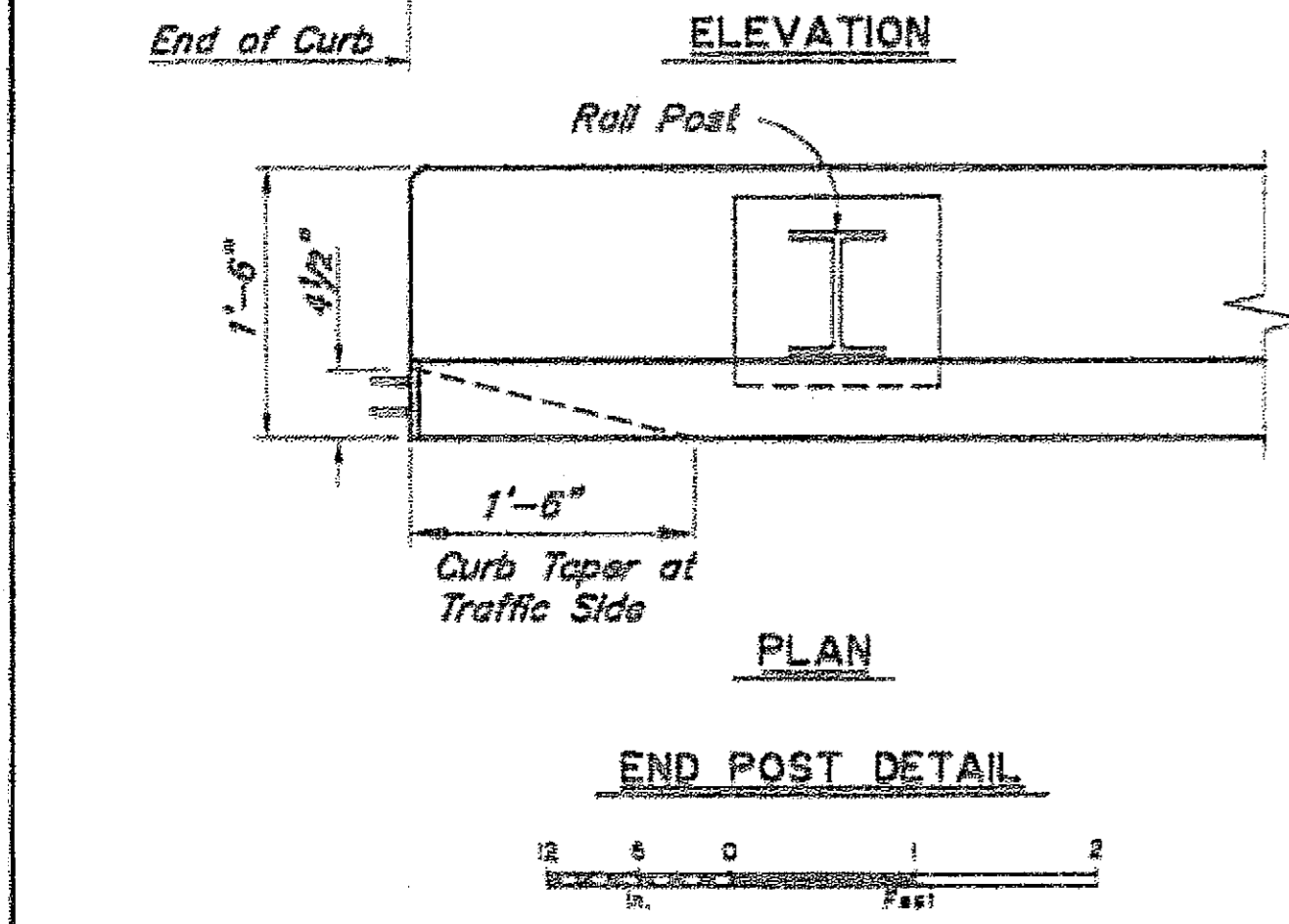
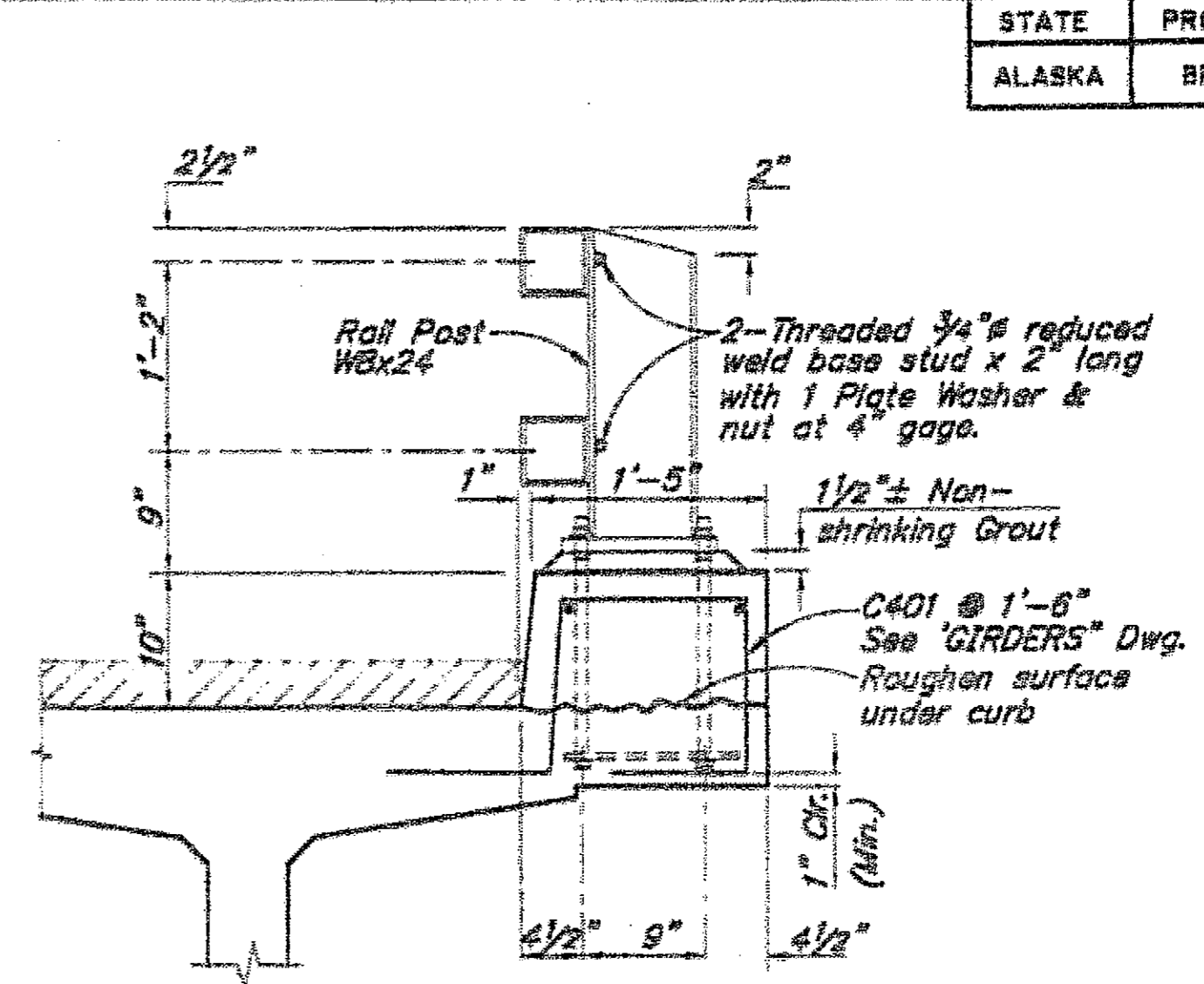
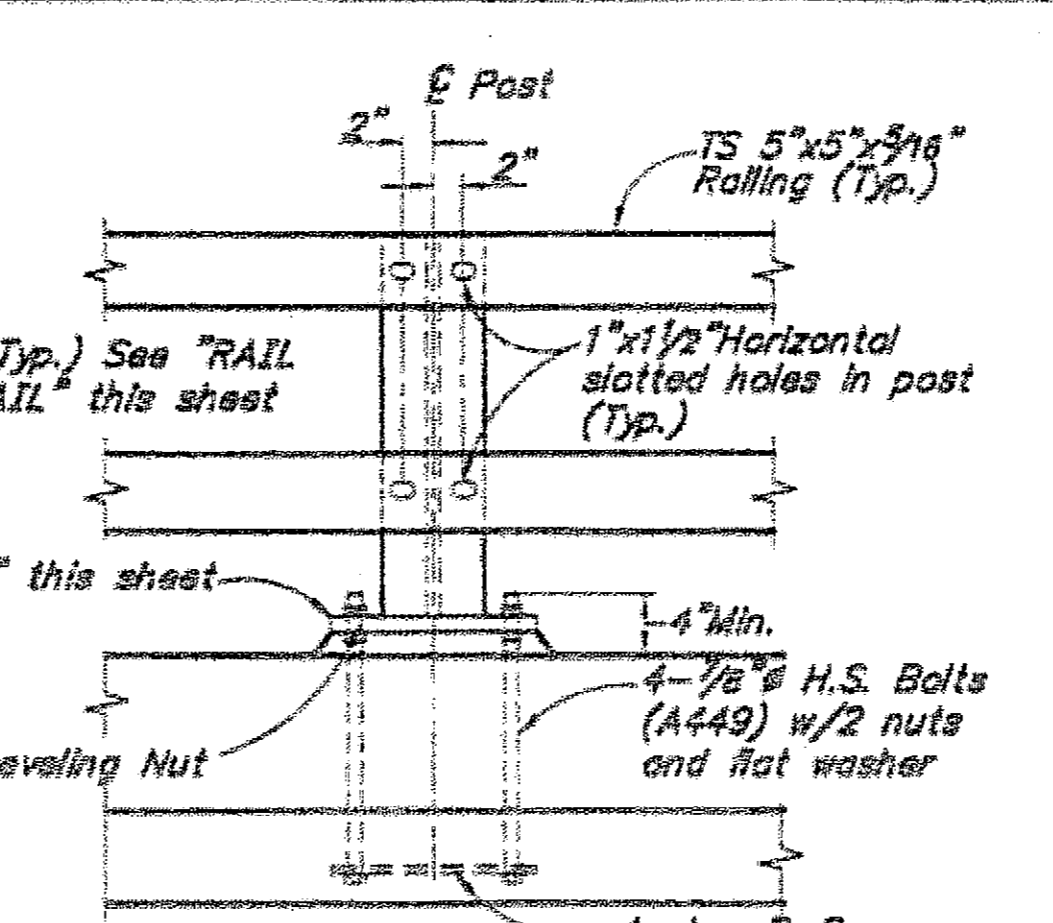
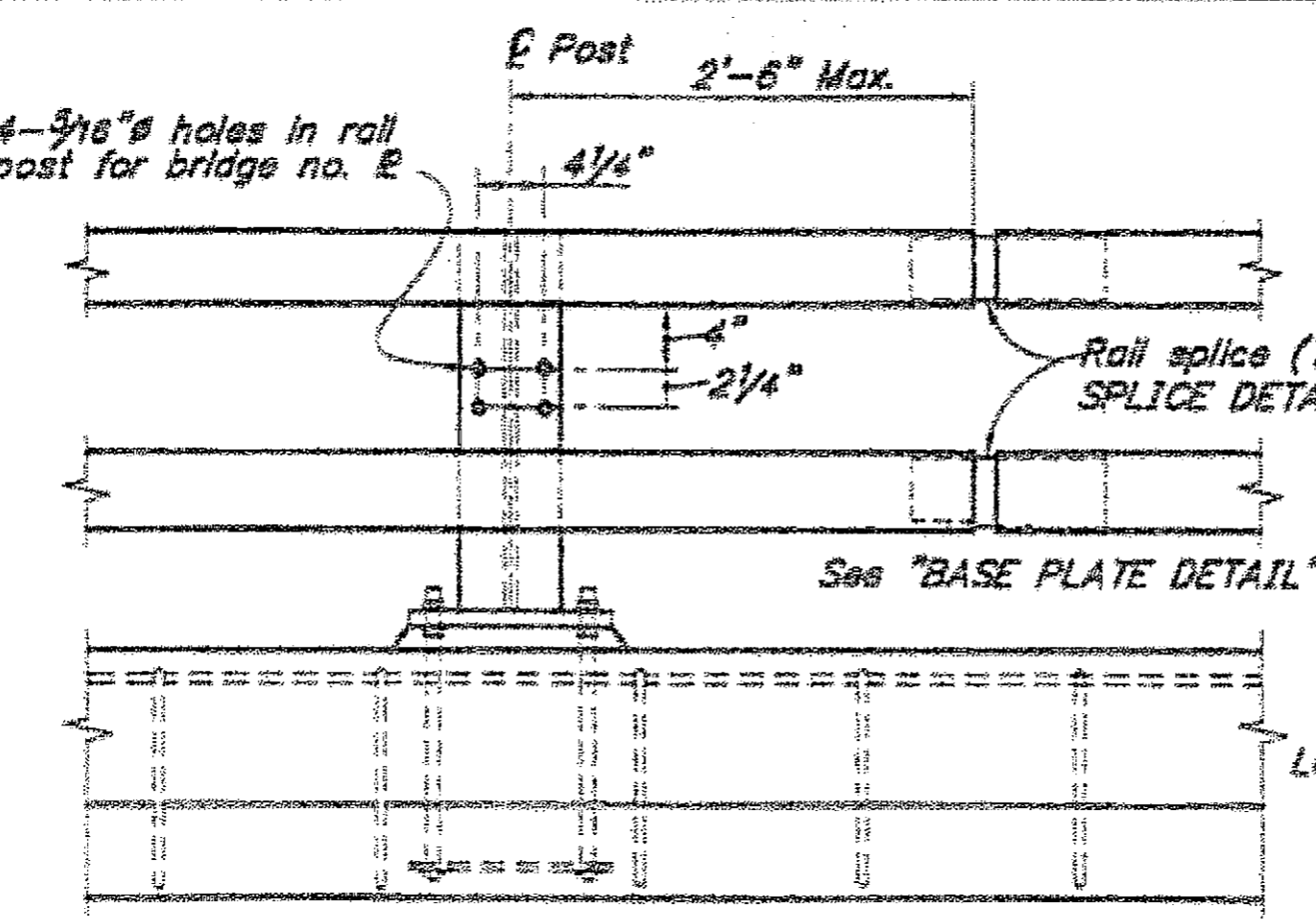
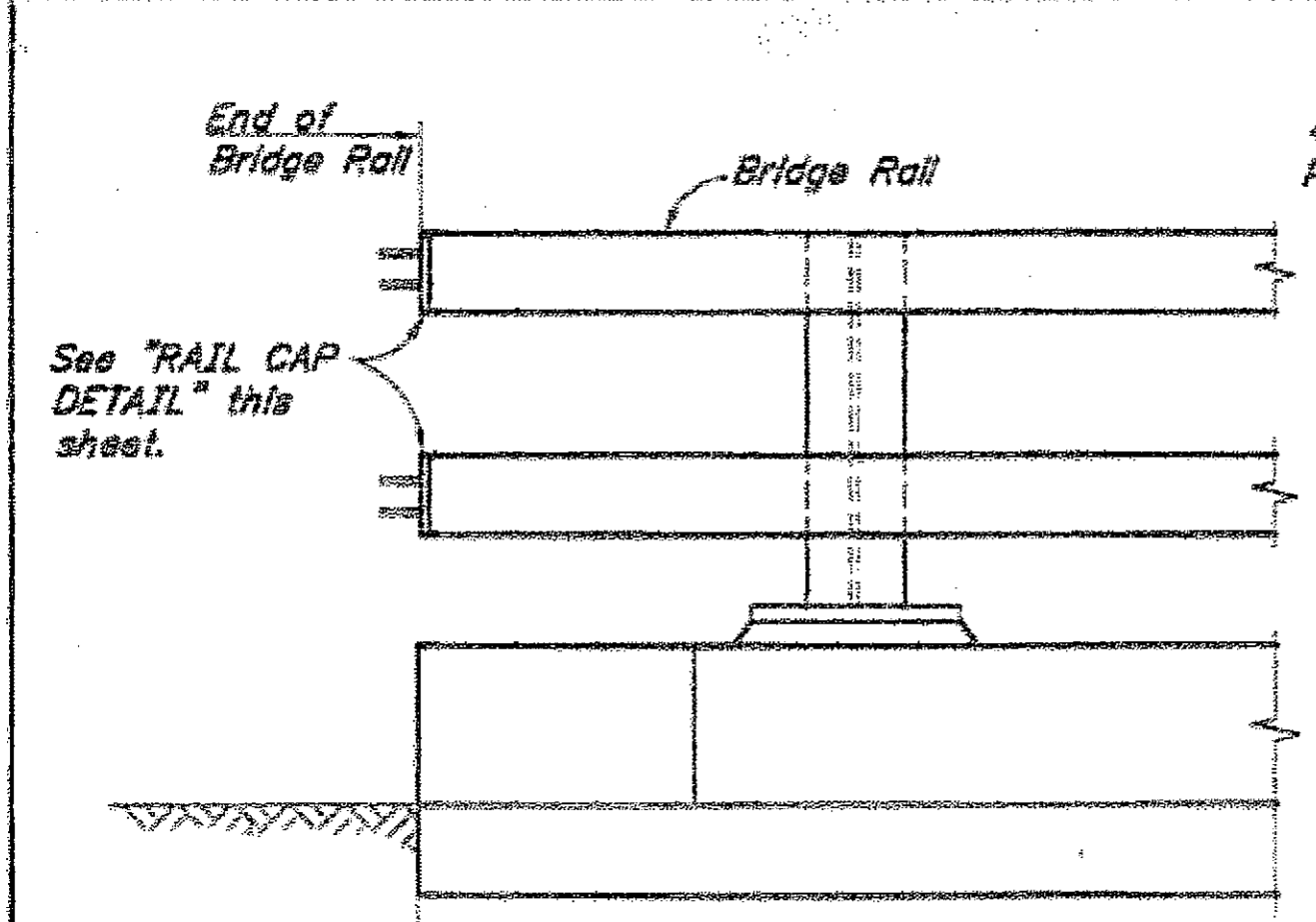


OHMER CREEK BRIDGE
 MITKOF HIGHWAY
 WINGWALLS

BRIDGE NO. 388
 DWG. NO. 4

P:\WORK\2006-2007\114\0206-21272-00-104

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	BR-0937(32)/86696	2006	57	58



- NOTES**
1. Locate bridge number plates on right hand side of approaching traffic near each end as shown (2 total).
 2. Furnish bridge number plates. Use bronze that conforms to A.S.T.M. B98-90, Alloy "A" or "B". Use "Century" type style lettering. Use studs and nuts that conform to UNS C65100 or C65500. Braze 1/4" threaded rod to back of plate with nut - 4 required. Use locking nuts or lock washers on all machine bolts.
 3. Provide railing expansion joints at 50'-0" maximum intervals. Railing shall be continuous over 2 posts minimum.
 4. Use grout with a minimum 24 hour f'c of 3000 psi.
 5. Install Posts plumb.
 6. See "TYPICAL SECTION" Dwg. for rail post spacing.
 7. See Standard Dwg. G-31.00 for Transition Railing Details.

As-Built CD S-11-07

DESIGNED BY: Todd Barst	CHECKED: Peter Glassel
DRAWN BY: Sam Sallie Jr.	CHECKED: Todd Barst
QUANTITIES BY: Todd Barst	CHECKED: Peter Glassel

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
BRIDGE SECTION



OHMER CREEK BRIDGE
MITKOF HIGHWAY
STEEL BRIDGE RAILING

BRIDGE NO. 388
DWG. NO. 7