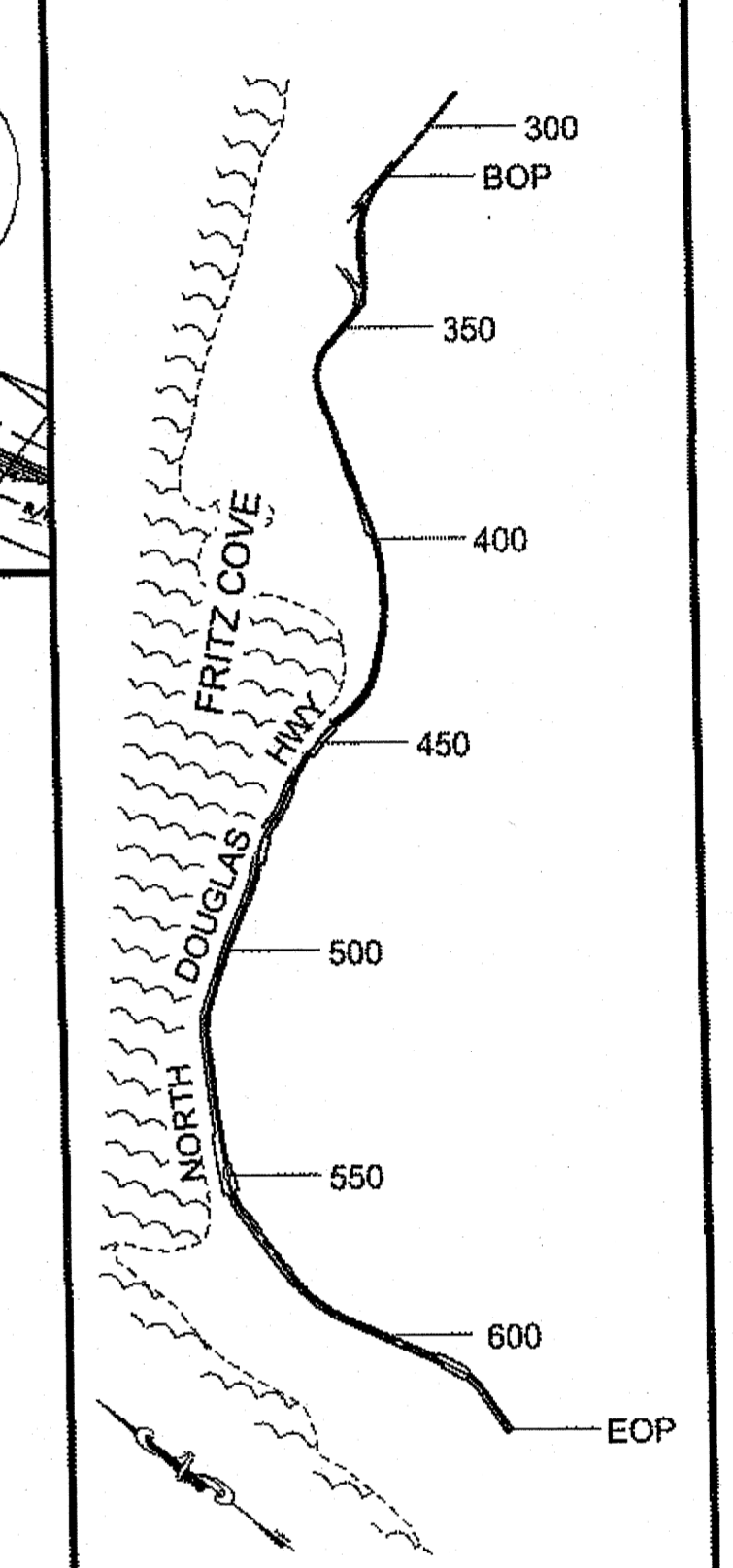
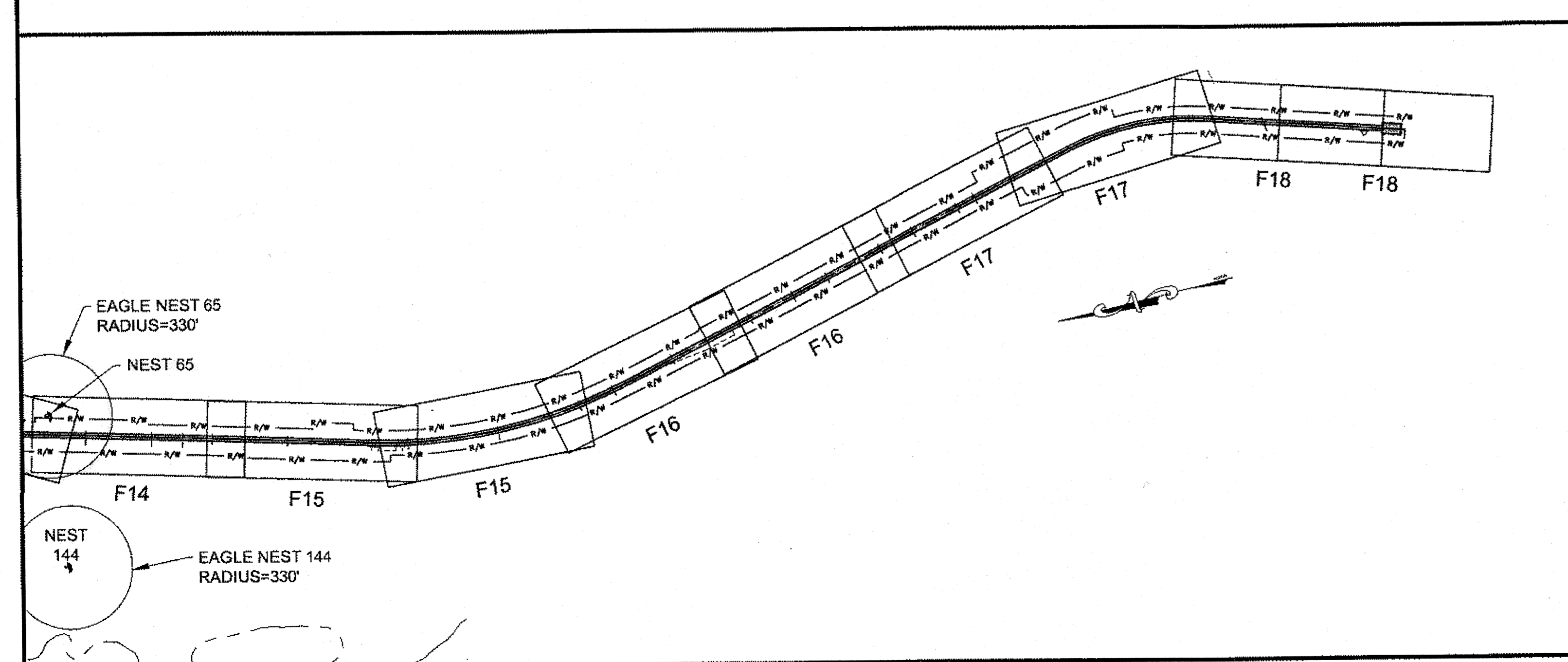
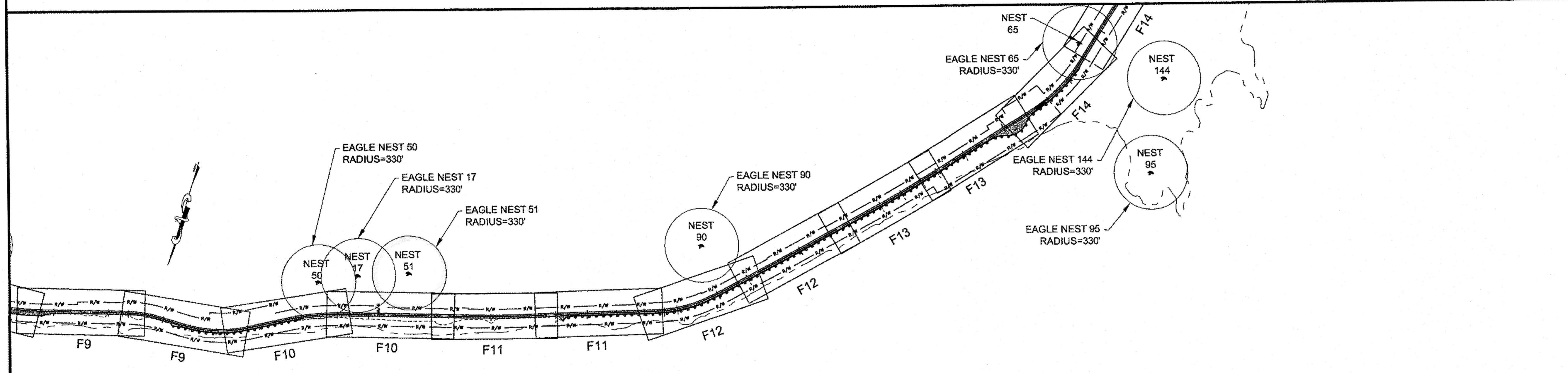
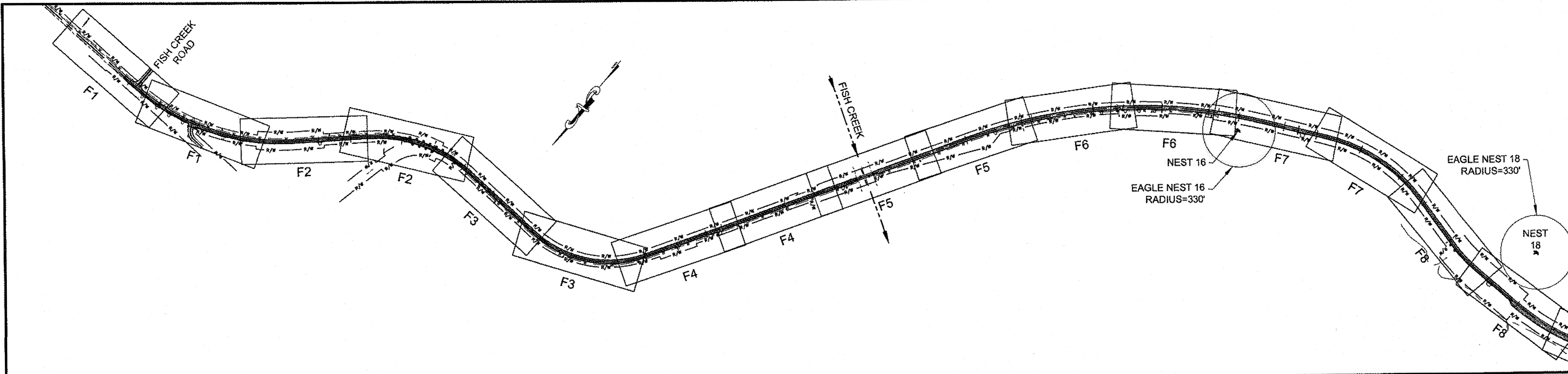


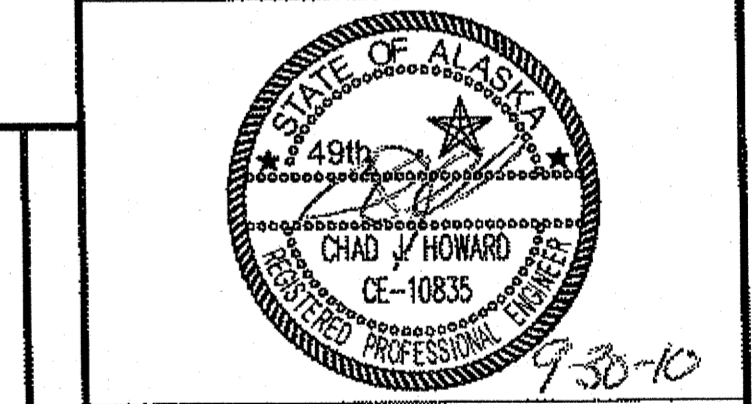
GRANTHAM, RICK L (DOT)
 TAB: A2 Thursday, September 30, 2010 9:19:10 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY
 PAVEMENT REHABILITATION

LEGEND

PROJECT DESIGNATION	
NH-0959(19)-69633	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
A2	32

SYMBOLS

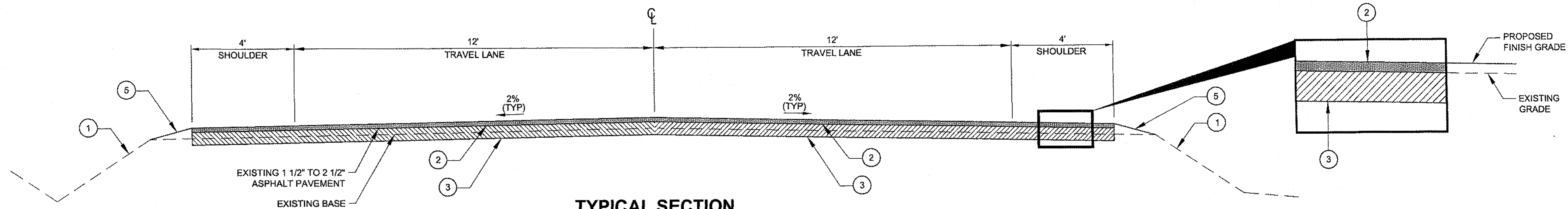
	FLOW DIRECTION
	FISH STREAM
	GUARDRAIL
	PIPE NUMBER

SEE STANDARD DRAWING A-1 FOR ADDITIONAL SYMBOLS

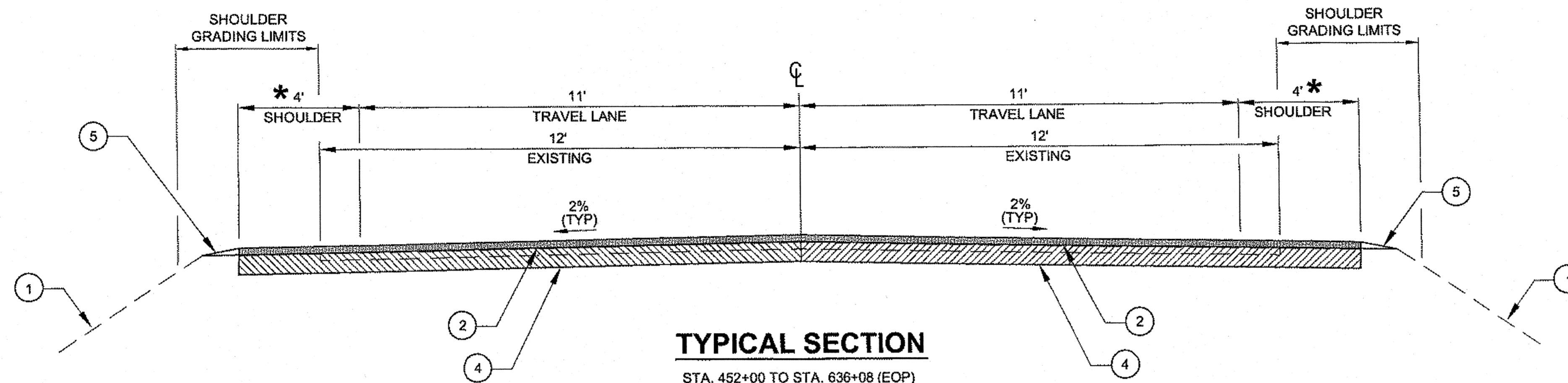
ABBREVIATIONS

CAP	CORRUGATED ALUMINUM PIPE
CF	CUBIC FOOT
CPP	CORRUGATED POLYETHYLENE PIPE
EB	EAST BOUND
DIA	DIAMETER
FT	FOOT
IN	INCH
LT	LEFT
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
R	RADIUS
RP	RADIUS POINT
RPM	RECESSED PAVEMENT MARKER
RT	RIGHT
SQ FT	SQUARE FOOT
STA	STATION (100 FT.)
WB	WEST BOUND

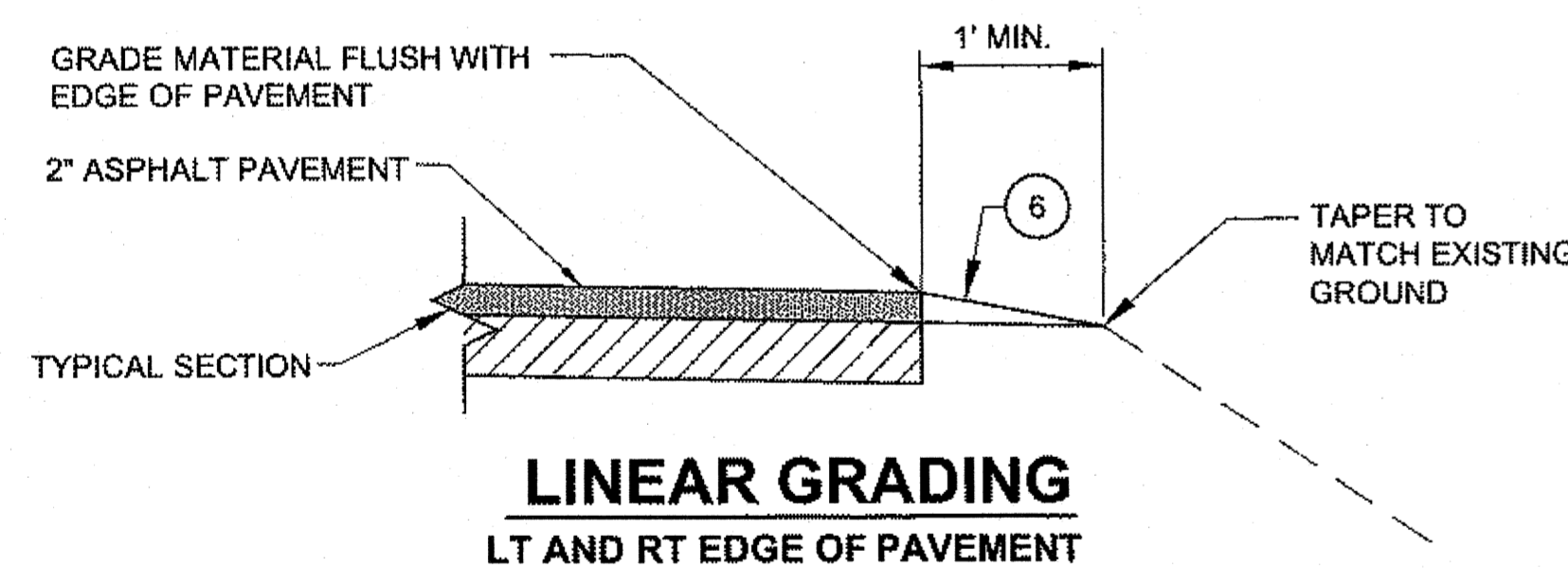
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



TYPICAL SECTION
(BOP) STA. 314+20 TO STA. 452+00



TYPICAL SECTION
STA. 452+00 TO STA. 636+08 (EOP)
* STA. 560 TO EOP SHOULDER WIDTH = 3'



LINEAR GRADING
LT AND RT EDGE OF PAVEMENT

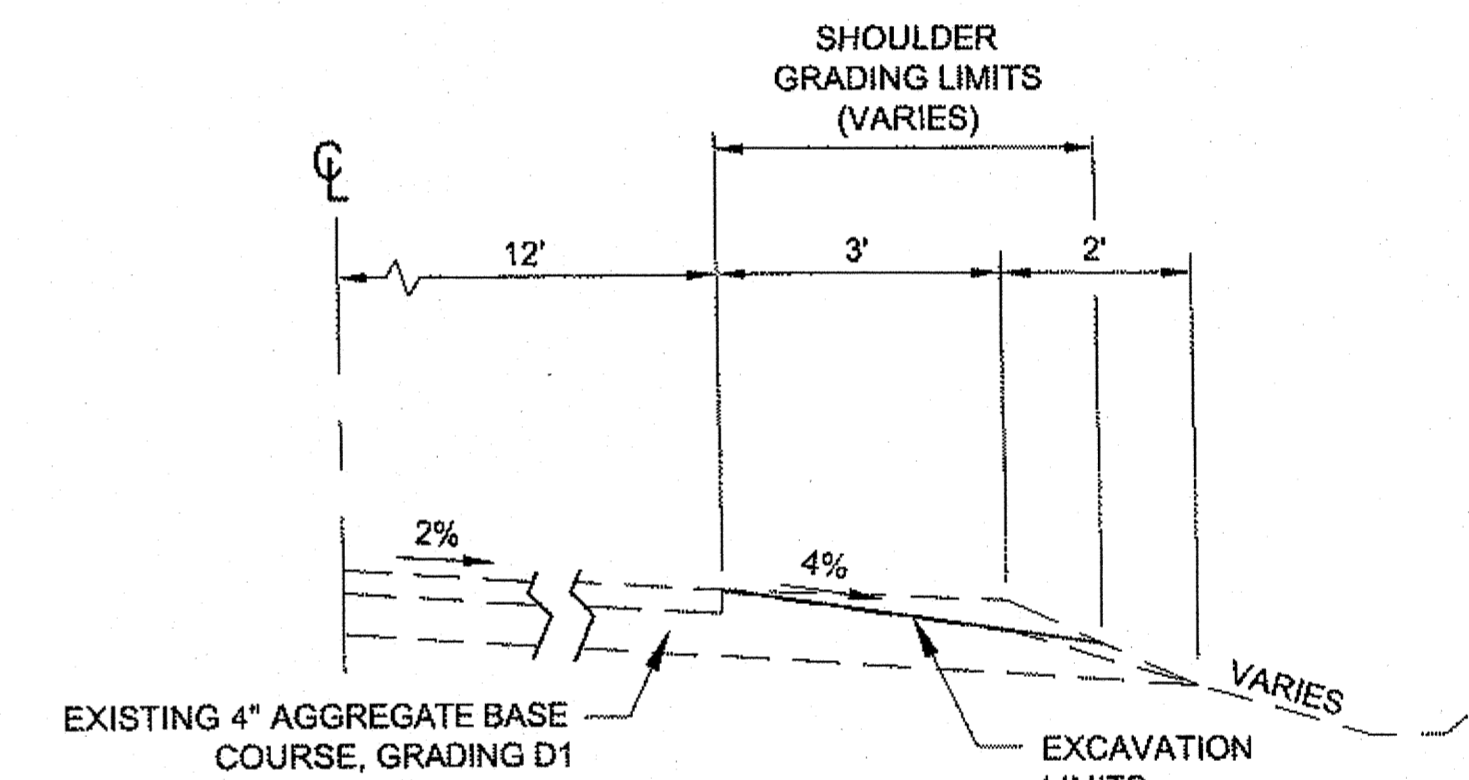
1. MATERIAL FOR LINEAR GRADING SHALL MEET THE REQUIREMENTS AS SPECIFIED IN SECTION 303 OF THE SPECIAL PROVISIONS.
2. LINEAR GRADING SHALL BE PAID FOR UNDER ITEM 303(3).

TYPICAL SECTION NOTES:

1. EXCAVATE AND RECONSTRUCT SHOULDERS PRIOR TO PULVERIZING ACTIVITIES. ADD AGGREGATE FOR CRUSHED ASPHALT BASE COURSE TO RECONSTRUCT SHOULDERS FLUSH WITH EXISTING PAVEMENT SURFACE, THEN PULVERIZE ROADWAY SURFACE FULL WIDTH AS SHOWN.
2. PULVERIZING DEPTH SHALL BE AS SHOWN TO CONSTRUCT 4" AND 6" CAB. PULVERIZING TO CONSTRUCT CRUSHED ASPHALT BASE COURSE SHALL BE PAID FOR UNDER ITEM 308.
3. SEE SECTION 642 FOR CONSTRUCTION SURVEYING REQUIREMENTS.
4. CONTRACTOR SHALL MAKE INITIAL PASS THEN ADD AGGREGATE FOR CRUSHED ASPHALT BASE COURSE, IF REQUIRED, TO MEET A SMOOTH AND UNIFORM GRADE. THE ENGINEER SHALL APPROVE GRADE, PRIOR TO MIXING OIL AND CEMENT IN SECOND PASS.
5. LINEAR GRADING SHALL CONSIST OF GRADING, SHAPING, AND COMPACTING THE CRUSHED ASPHALT BASE MATERIAL AS SHOWN ON THE TYPICAL SECTION. SEE SECTION 303 OF THE SPECIAL PROVISIONS.
6. DOT&PF IS MAKING MATERIAL FROM STOCKPILED RAP STORAGE AREA LOCATED AT THE INTERSECTION OF EGAN AND MENDENHALL LOOP AVAILABLE FOR CONTRACTOR USE ON THE PROJECT.
7. CORES WERE DRILLED TO DETERMINE EXISTING PAVEMENT THICKNESS. THE LOCATION AND THICKNESS OF EACH CORE IS SHOWN IN THE EXISTING ASPHALT THICKNESS TABLE ON SHEET C1.

LEGEND

1	EXISTING GROUND (VARIES)
2	2 1/2" ASPHALT CONCRETE, SP, TYPE B
3	6" CRUSHED ASPHALT BASE COURSE
4	4" CRUSHED ASPHALT BASE COURSE
5	LINEAR GRADING
6	AGGREGATE FOR CRUSHED ASPHALT BASE COURSE.

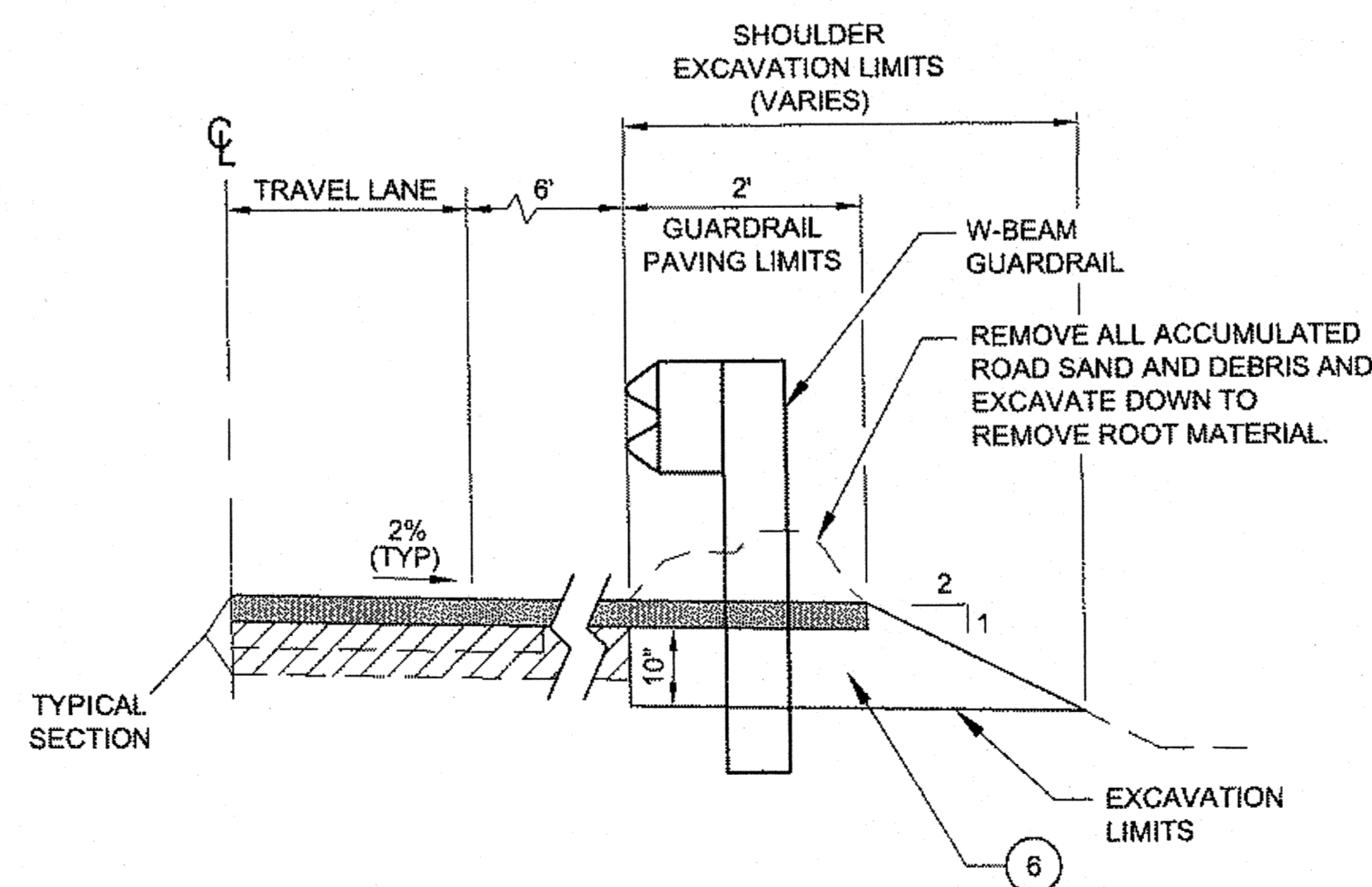


SHOULDER GRADING
TYPICAL SECTION

STA. 452+00 TO STA. 636+08 (EOP)
LT AND RT EDGE OF PAVEMENT

SEE SHOULDER EXCAVATION FOR GUARDRAIL LOCATIONS

1. EXCAVATE ALL COGITATION, ACCUMULATED ROAD SAND, AND DEBRIS TO EXPOSE EXISTING BASE COURSE.
2. SHOULDER GRADING TO COMPLETED USING METHODS AND EQUIPMENT THAT CONTAIN THE EXCAVATED MATERIAL TO PREVENT SEDIMENT FROM ENTERING THE DITCH OR WATERWAYS.
3. REMOVE AND DISPOSE OF EXCAVATED MATERIAL AT AN APPROVED LOCATION.



GUARDRAIL PAVING AND SHOULDER EXCAVATION TYPICAL SECTION

VARIOUS LOCATIONS

1. DAYLIGHT SHOULDER EXCAVATION WHERE SLOPE CONDITION ALLOWS.
2. WHERE SLOPE BEHIND GUARDRAIL IS APPROXIMATELY LEVEL, EXCAVATE 2' BEHIND GUARDRAIL POST LINE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM, D. MULLINER	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION TYPICAL SECTION																					
PATH: Q:\JNU\0959\PLANS\0959_B1_TYP.DWG TAB: B1 Thursday, September 30, 2010 8:05:13 AM GRANHAM, RICK L (DOT)	<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>NH-0959(19)-69633</td> <td>2010</td> <td>B1</td> <td>32</td> </tr> </tbody> </table>	REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	NO.	DATE	DESCRIPTION								NH-0959(19)-69633	2010	B1	32
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																
NO.	DATE	DESCRIPTION																				
			NH-0959(19)-69633	2010	B1	32																

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	1408 (275.1)
202 (10)	SINGLE MAIL BOX INSTALLATION	EACH	15
202 (11)	MULTIPLE MAIL BOX INSTALLATION	EACH	1
202 (12)	DOUBLE MAIL BOX INSTALLATION	EACH	2
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	500 548
203 (6)-c	BORROW, TYPE C	TON	3500 1056.0
203 (6)-d	BORROW, TYPE D	TON	3700 3,102.0
203 (19)	SUBGRADE REPAIR	CONTINGENT SUM	ALL REQUIRED
203 (20)	SHOULDER EXCAVATION	STATION	25 82.94
203 (21)	SHOULDER GRADING	STATION	287 277.9
303 (3)	LINEAR GRADING	STATION	650
308 (1)	CRUSHED ASPHALT BASE COURSE	SQUARE YARD	111900 11,643.5
308 (2)	CSS-1 ASPHALT FOR BASE COURSE	TON	970 915.45
308 (3)	PORTLAND CEMENT	TON	310 309.42
308 (4)	AGGREGATE FOR CABG	TON	5000 5237.17
401 (1)	ASPHALT CONCRETE, SP, TYPE B	TON	13420 11,505
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	TON	808 1091.03
401 (3)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
401 (10)	ASPHALT MATERIAL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	1 09
603 (2)	7'-0" X 5'-1" CSP ARCH	LINEAR FOOT	34
603 (9)-36	36 INCH CORRUGATED ALUMINUM PIPE	LINEAR FOOT	24 26.0
603 (21)-24	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	902 945.0
603 (21)-36	36 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	416 409.2
605 (8)	12 INCH PERFORATED HDPE UNDERDRAIN	LINEAR FOOT	650 460.0
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	7770 7019.0
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	8268 8106.0
606 (11)	EXTRUDER TERMINAL (ET-PLUS)	EACH	13
606 (13)	DOWNSTREAM END ANCHOR	EACH	4 3
611 (1)-1	RIPRAP, CLASS I	SQUARE YARD	500 125
611 (1)-4	RIPRAP, CLASS IV	CUBIC YARD	2500 3211.4
615 (1)	STANDARD SIGN	SQUARE FOOT	212 219.03
618 (1)	SEEDING	ACRE	5 0.65
627 (10)	ADJUSTMENT OF VALVE BOX	EACH	7 9
629 (1)	GUARDRAIL PAVING Deleted C.O. 2	LINEAR FOOT	7700
630 (1)	GEOTEXTILE, SEPARATION	SQUARE YARD	4300 2531.0
633 (2)	SEDIMENT BARRIER	LINEAR FOOT	9000 7000.0
635 (2)	INSULATION BOARD	SQUARE FOOT	3240 352.0
639 (3)	DRIVEWAY	EACH	27
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (4)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQUIRED
641 (10)	SEDIMENT CONTAINMENT BOOM	LUMP SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (4)	SET PRIMARY MONUMENT	EACH	28 31
642 (9)	REFERENCE EXISTING MONUMENT	EACH	3
642 (10)	MONUMENT CASE	EACH	28 31
642 (11)	ADJUST EXISTING MONUMENT CASE	EACH	1
642 (13)	REMOVAL OF MONUMENT AND CASE	EACH	36
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643 (15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
645 (1)	TRAINING PROGRAM, 1 TRAINEES/APPRENTICES	LABOR HOUR	650
651 (1)	EAGLE MONITORING	hour	200 129.5
670 (8)	RECESSED PAVEMENT MARKER	EACH	810 503.0
670 (13)	INLAID METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

NEW ITEMS BY CHANGE ORDER

- 401(1) Asphalt Price Adjustment - Added Pavement L.S.
- 629(2) Guardrail Paving L.F. 7711.0
- 643(25) Additional Traffic Maintenance L.S.
- 670 (14) Inlaid Methyl Methacrylate Markings L.S.
- 603(22) Culvert Pipe Slewing L.S.
- 637(4) Shoulder Paving L.S.
- 202(2A) Pavement Removal 751054.0
- 401(2A) Asphalt concrete 5169.70
- 402(1A) Tack coat Price Adj. - L.S.

BASIS OF ESTIMATE

ITEM NO.	ITEM	ESTIMATING FACTOR
203 (6)-C & D	BORROW, TYPE D & TYPE C	1.62 TONS/C.Y.
308 (2)	CSS-1 ASPHALT FOR BASE COURSE	2.5 GAL/SY FOR 6" DEPTH OR 1.7 GAL/SY FOR 4" DEPTH
308 (3)	CSS-1 ASPHALT FOR BASE COURSE	243 GAL/TON
308 (3)	PORTLAND CEMENT	6.8 LB/SY FOR 6" DEPTH/4.5 LB/SY FOR 4" DEPTH
308 (4)	AGGREGATE FOR CABG	20 TONS/STATION
401 (1)	ASPHALT CONCRETE, SP, TYPE B	120 LBS./S.Y./IN.
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	6.0% OF ITEM 401(1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/S.Y. (243 GAL/TON)

UTILITY COMPANY POINTS OF CONTACT

"CALL BEFORE YOU DIG 586-1333"

UTILITY	COMPANY	CONTACT PERSON	PHONE
ELECTRIC	ALASKA ELECTRIC LIGHT & POWER CO. (AEL&P)	DARRELL WETHERALL	463-6316
TELEPHONE	ALASKA COMMUNICATION SYSTEMS (ACS)	MONTY WILLIAMS	463-8987
SEWER	CITY AND BOROUGH OF JUNEAU	TOM TREGO	790-2525 EXT 35
WATER	CITY AND BOROUGH OF JUNEAU	DAVE CRABTREE	780-6808
CABLE	GCI	GREG FARMER	463-1434

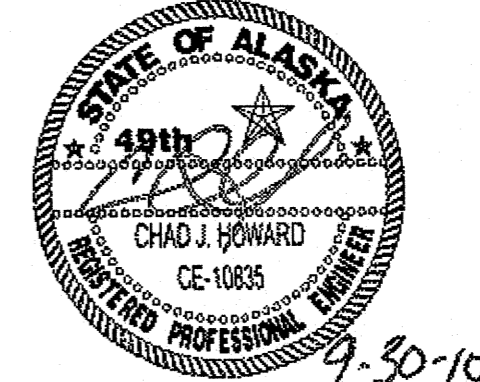
GENERAL NOTES:

- THE INFORMATION CONTAINED IN THESE PLANS HAS BEEN DEVELOPED FROM AS-BUILTS AND FIELD INVESTIGATION, AND HAS BEEN MADE AS COMPLETE AND ACCURATE AS POSSIBLE.
- THE LOCATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- WHEN WAQTC FOP FOR AASHTO T 180 IS SPECIFIED, METHOD D WILL BE PERFORMED UNLESS OTHERWISE STATED.
- WHEN WAQTC FOP FOR AASHTO T 27/T 11 IS SPECIFIED, METHOD A OR B WILL BE PERFORMED ON ALL CRUSHED AGGREGATE AND ON MATERIAL CONTAINING 3/4" NOMINAL MAXIMUM SIZE AGGREGATE OR LESS.

EXISTING ASPHALT THICKNESS

CORE	LOCATION	THICKNESS
BH - 1	334+89 - RT. LANE	2 1/4"
BH - 2	359+44 - RT. LANE	1 3/4"
BH - 3	374+15 - LT. LANE	2 1/2"
BH - 11	401+05 - LT. LANE	2 1/4"
BH - 4	456+02 - LT. LANE	2 1/2"
BH - 5	490+67 - RT. LANE	1 1/2"
BH - 6	519+93 - LT. LANE	1 3/4"
BH - 10	548+87 - RT. LANE	2 1/4"
BH - 9	577+22 - LT. LANE	1 1/2"
BH - 8	604+94 - RT. LANE	1 1/2"
BH - 7	635+00 - LT. LANE	1 1/2"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION	
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM, D. MULLINER		ESTIMATES OF QUANTITIES	
PATH: Q:\JNU\69633\PLANS\EST\69633_C1-C3_EST.DWG TAB: C1 Thursday, September 30, 2010 8:35:57 AM GRANTHAM, RICK L. (DOT)		PROJECT DESIGNATION NH-0959(19)-69633	YEAR 2010
REVISIONS NO. DATE DESCRIPTION	SHEET NO. C1	TOTAL SHEETS 32	

603 CULVERT INSTALLATION										
PIPE	INLET			OUTLET			AS-BUILT CL HEIGHT OF COVER	LENGTH (FT)	SIZE	REMARKS
	STATION	OFFSET	INVERT	STATION	OFFSET	INVERT				
P-1	314+49	MATCH EXISTING	MATCH EXISTING	314+49	MATCH EXISTING	MATCH EXISTING	6'	72 72.8	24" CPP	
P-2	322+05	MATCH EXISTING	MATCH EXISTING	322+05	MATCH EXISTING	MATCH EXISTING	13'	84 82.9	36" CPP	
P-3	346+49	MATCH EXISTING	MATCH EXISTING	346+49	MATCH EXISTING	MATCH EXISTING	6'	74 74.7	24" CPP	
P-4	349+98	MATCH EXISTING	MATCH EXISTING	349+98	MATCH EXISTING	MATCH EXISTING	4'	60 60.3	24" CPP	
P-5	365+87	MATCH EXISTING	MATCH EXISTING	365+87	MATCH EXISTING	MATCH EXISTING	8'	80 78.5	24" CPP	
P-6	371+55	MATCH EXISTING	MATCH EXISTING	371+55	MATCH EXISTING	MATCH EXISTING	2'	50 63.9	24" CPP	
P-7	396+20	MATCH EXISTING	MATCH EXISTING	396+72	MATCH EXISTING	MATCH EXISTING	4'	74 78.1	36" CPP	MATCH EXISTING SKEW ANGLE
P-8	401+36	MATCH EXISTING	MATCH EXISTING	401+90	MATCH EXISTING	MATCH EXISTING	10'	80	24" CPP	MATCH EXISTING SKEW ANGLE
P-9	408+13	MATCH EXISTING	MATCH EXISTING	408+13	MATCH EXISTING	MATCH EXISTING	13'	84 87.2	36" CPP	
P-10	410+85	MATCH EXISTING	MATCH EXISTING	410+71	MATCH EXISTING	MATCH EXISTING	3'	60 66.0	24" CPP	
P-11	414+28	MATCH EXISTING	MATCH EXISTING	414+28	MATCH EXISTING	MATCH EXISTING	6'	84 84.2	36" CPP	
P-12	418+56	MATCH EXISTING	MATCH EXISTING	418+56	MATCH EXISTING	MATCH EXISTING	5'	74 83.1	24" CPP	
P-13	419+45	MATCH EXISTING	MATCH EXISTING	419+45	MATCH EXISTING	MATCH EXISTING	8'	86 85.5	24" CPP	
P-14	421+37	MATCH EXISTING	MATCH EXISTING	421+37	MATCH EXISTING	MATCH EXISTING	6'	74 74.9	24" CPP	
P-15	425+52	MATCH EXISTING	MATCH EXISTING	425+52	MATCH EXISTING	MATCH EXISTING	8'	82 78.6	24" CPP	
P-16	428+51	MATCH EXISTING	MATCH EXISTING	428+51	MATCH EXISTING	MATCH EXISTING	12'	80 76.8	36" CPP	
P-17	432+66	MATCH EXISTING	MATCH EXISTING	432+66	MATCH EXISTING	MATCH EXISTING	8'	78 68.6	24" CPP	
P-18	437+01	MATCH EXISTING	MATCH EXISTING	437+01	MATCH EXISTING	MATCH EXISTING	3'	60 77.8	24" CPP	
P-19	440+16	MATCH EXISTING	MATCH EXISTING	440+16	MATCH EXISTING	MATCH EXISTING	5'	60 60.3	24" CPP	
* P-20	-	-	-	501+09	EXTENSION	MATCH EXISTING		34	7'-0" x 5'-1"	MULTI-PLATE EXTENSION
* P-21	-	-	-	503+66	EXTENSION	MATCH EXISTING		24 26.0	36" CAP	EXTENSION

NOTE: CONTRACTOR SHOULD VERIFY EXISTING BURIED CULVERT DEPTHS.

* MARCH 15 → JUNE 15
 NO WORK IN WATER; MIGRATING SMOLT
 (for work on Embankment Repair from Sta 506+00 → 508+80)

605 UNDERDRAIN			
FROM STATION	TO STATION	LENGTH	REMARKS
330+59	331+74	114 115	45° BEND
335+75	337+55	180 103	
351+58	355+00	360 357	45° BEND

202 (4) REMOVAL OF CULVERT PIPE				
PIPE	STATION	DIAMETER (IN)	LENGTH (FT)	COMMENTS
P-1	314+49	24	72	
P-2	322+05	30	84	
P-3	346+49	24	74	
P-4	349+98	24	60	
P-5	365+87	24	80	
P-6	371+55	24	60	
P-7	396+36	36	74	
P-8	401+63	24	80	
P-9	408+13	36	94	
P-10	410+78	24	60	
P-11	414+28	36	84	
P-12	418+56	24	74	
P-13	419+45	24	86	
P-14	421+37	24	74	
P-15	425+52	24	82	
P-16	428+51	36	80	
P-17	432+66	24	70	
P-18	436+95	24	60	
P-19	440+16	24	60	

202 MAILBOX					
STATION	OFFSET	SINGLE	DOUBLE	MULTIPLE	REMARKS
318+36	17' RT	1			HOUSE # 9560
318+36	17' LT	1			HOUSE # 9547
319+63	17' RT	1			HOUSE # 9580
320+96	17' RT	1			HOUSE # 9640
324+78	17' RT	1			HOUSE # 9690
326+41	17' RT	1			HOUSE # 9700
338+54	17' LT	1			HOUSE # 10025
339+23	17' LT		1		HOUSE # 10037 & 10047
344+88	17' LT		1		HOUSE # 10065 & 10075
369+07	17' RT	1			HOUSE # 10500
398+71	17' RT	1			HOUSE # 11220
403+78	17' RT	1			HOUSE # 11280
409+21	17' RT	1			HOUSE # 11326
411+32	17' RT	1			HOUSE # 11346
412+59	17' RT	1			HOUSE # 11348
413+97	17' RT	1			HOUSE # 11380
417+36	17' RT	1			HOUSE # 11466
418+14	17' RT			1	(4 BOXES) HOUSE #S 11468, 14010, ??? & 14040

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY
 PAVEMENT REHABILITATION

SUMMARIES

PATH: C:\JNU\69633\PLANS\69633_C1-C3_EST.DWG
 TAB: C2 Thursday, September 30, 2010 8:05:52 AM GRANTHAM, RICK I. (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0959(19)-69633	2010	C2	32

606 (1) W-BEAM GUARDRAIL				
FROM STATION	TO STATION	OFFSET	LENGTH	REMARKS
321+70	322+60	RT	90	NINE MILE CREEK ROAD
341+12	343+61	RT	250	
341+12	344+36	LT	325	
444+08	445+35	RT	128	
470+14	480+69	RT	1063	
498+80	556+99	RT	5914	

642 (9) REFERENCE EXISTING MONUMENT		
STATION	TYPE	REMARKS
315+35.50	PC	CL MONUMENT (FISH CR. RD. INTERSECTION)
379+82	LOT COR	19.4' LT (DO NOT DISTURB MONUMENT)
498+45	BLM-WCMC	70' RT (DO NOT DISTURB MONUMENT)

606 (6) GUARDRAIL REMOVAL AND DISPOSAL				
FROM STATION	TO STATION	OFFSET	LENGTH	REMARKS
321+70	322+97	RT	135	NINE MILE CREEK ROAD
340+74	343+99	RT	325	
340+74	344+74	LT	402	
385+30	385+90	RT	39	FISH CR. BRIDGE (DO NOT REMOVE THRIE BEAM TO W-BEAM TRANSITION RAIL AND THRIE BEAM RAIL)
385+30	385+90	LT	39	FISH CR. BRIDGE (DO NOT REMOVE THRIE BEAM TO W-BEAM TRANSITION RAIL AND THRIE BEAM RAIL)
387+40	388+03	RT	39	FISH CR. BRIDGE (DO NOT REMOVE THRIE BEAM TO W-BEAM TRANSITION RAIL AND THRIE BEAM RAIL)
387+40	388+03	LT	39	FISH CR. BRIDGE (DO NOT REMOVE THRIE BEAM TO W-BEAM TRANSITION RAIL AND THRIE BEAM RAIL)
443+70	445+73	RT	203	
470+14	481+07	RT	1100	
498+80	557+37	RT	5950	

642 (11) ADJUST EXISTING MONUMENT CASE		
STATION	TYPE	REMARKS
315+35.50	PC	

606 (11) ET-PLUS			
STATION	OFFSET	LENGTH	REMARKS
322+97	RT	37.5'	
340+74	RT	37.5'	
340+74	LT	37.5'	
343+99	RT	37.5'	
344+74	LT	37.5'	
385+30	RT	37.5'	FISH CREEK BRIDGE
385+30	LT	37.5'	FISH CREEK BRIDGE
388+03	RT	37.5'	FISH CREEK BRIDGE
388+03	LT	37.5'	FISH CREEK BRIDGE
443+70	RT	37.5'	
445+73	RT	37.5'	
481+07	RT	37.5'	
557+37	RT	37.5'	

642 (4) SET PRIMARY MONUMENT		
STATION	OFFSET	REMARKS
322+77	14' RT	SHOULDER MONUMENT
331+22	14' RT	SHOULDER MONUMENT
339+16	14' LT	SHOULDER MONUMENT
346+09	14' LT	SHOULDER MONUMENT
356+80	14' RT	SHOULDER MONUMENT
362+62	14' RT	SHOULDER MONUMENT
377+78	14' RT	SHOULDER MONUMENT
392+55	14' LT	SHOULDER MONUMENT
405+79	14' LT	SHOULDER MONUMENT
417+65	14' LT	SHOULDER MONUMENT
431+76	14' LT	SHOULDER MONUMENT
439+40	14' LT	SHOULDER MONUMENT
447+81	14' RT	SHOULDER MONUMENT
458+22	13' RT	SHOULDER MONUMENT
473+29	13' RT	SHOULDER MONUMENT
488+34	13' RT	SHOULDER MONUMENT
502+40	13' RT	SHOULDER MONUMENT
517+24	13' RT	SHOULDER MONUMENT
531+89	13' RT	SHOULDER MONUMENT
546+64	13' RT	SHOULDER MONUMENT
555+77	13' RT	SHOULDER MONUMENT
569+91	12' RT	SHOULDER MONUMENT
579+22	12' RT	SHOULDER MONUMENT
589+01	12' RT	SHOULDER MONUMENT
603+43	12' LT	SHOULDER MONUMENT
617+71	12' LT	SHOULDER MONUMENT
624+82	12' LT	SHOULDER MONUMENT
634+86	12' LT	SHOULDER MONUMENT

639 (3) DRIVEWAY				
STATION	OFFSET	WIDTH (ft)	LENGTH (ft)	REMARKS
316+46	RT	14	5	GRAVEL (ADDRESS # 9550)
318+06	RT	14	5	GRAVEL (ADDRESS # 9560)
318+68	LT	14	5	GRAVEL (ADDRESS # 9547)
319+32	RT	14	5	GRAVEL (ADDRESS # 9580)
320+66	RT	14	5	GRAVEL (ADDRESS # 9600 & 9602)
321+42	LT	14	5	GRAVEL (ADDRESS # 9601)
324+47	RT	14	5	GRAVEL (ADDRESS # 9690)
326+11	RT	14	5	GRAVEL (ADDRESS # 9700)
333+13	RT	14	5	GRAVEL (ADDRESS # 9900)
336+32	LT	14	5	GRAVEL (ADDRESS # 10001)
338+93	LT	14	5	GRAVEL (ADDRESS # 10025, 10037, & 10047)
345+20	LT	14	5	GRAVEL (ADDRESS # 10065 & 10075)
358+95	RT	14	5	GRAVEL
368+75	RT	14	5	GRAVEL (ADDRESS # 10500)
384+50	RT	14	5	GRAVEL (FISH CREEK PARKING AREA)
399+10	RT	14	5	GRAVEL (ADDRESS # 11220)
404+17	RT	14	5	GRAVEL (ADDRESS # 11260)
408+86	RT	14	5	GRAVEL (ADDRESS # 11326)
410+96	RT	14	5	GRAVEL (ADDRESS # 11346)
412+22	RT	14	5	GRAVEL (ADDRESS # 11348)
413+61	RT	14	5	GRAVEL (ADDRESS # 11380)
417+74	RT	14	5	GRAVEL (ADDRESS # 11466, 11468, & 14040)
427+27	RT	30	5	PAVED BUS TURNOUT
449+37	RT	34	5	PAVED (BOAT RAMP LAUNCH)
576+86	RT	32	5	RAINFOREST TRAIL ENTRANCE
578+14	RT	32	5	RAINFOREST TRAIL EXIT
633+96	RT	14	5	PAVED

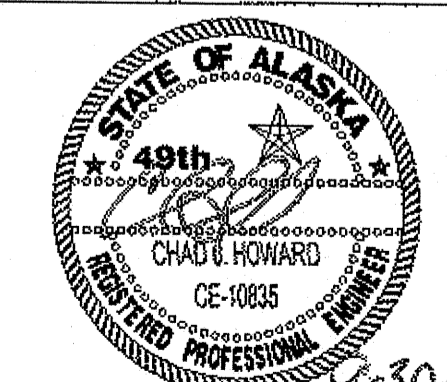
606 (13) DOWNSTREAM END ANCHOR		
STATION	OFFSET	REMARKS
321+23	RT	NINE MILE CREEK ROAD
470+14	RT	
498+80	RT	

627 (10) ADJUSTMENT OF VALVE BOX		
STATION	OFFSET	REMARKS
314+84	28' LT	FISH CREEK ROAD
314+94	28' LT	FISH CREEK ROAD
340+35	15' LT	
340+38	14' LT	
340+41	15' LT	
346+76	13' LT	
372+66	28' RT	SUNDOWN DRIVE

368+06 21' Lt. sundown Drive
 368+07 22' Lt. sundown Drive

397+25 14' Lt. shoulder monument
 412+20 14' Lt. shoulder monument
 426+55 14' Lt. shoulder monument

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		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION	
JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION			
SUMMARIES			
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM, D. MULLINER		PROJECT DESIGNATION: NH-0959(19)-69633	
PATH: Q:\JNU\69633\PLANSET\69633_C1-C3_EST.DWG TAB: C3 Thursday, September 30, 2010 8:06:03 AM GRANTHAM, RICK L. (DOT)		YEAR: 2010	SHEET NO.: C3
REVISIONS NO. DATE DESCRIPTION		TOTAL SHEETS: 32	

615 (1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STATION	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	EMBEDMENT DEPTH	SIGN FACING	COMMENTS
1	FISH CREEK ROAD	314+64	LT	D3-1	24	6	1.00	2.5 PST	4'-6"	EB	MOUNT ABOVE SIGN # 2
2	STOP	314+64	LT	R1-1	30	30	6.25	-	-	EB	
3	TWO WAY (LARGE ARROW) SYMBOL (↔)	315+17	RT	W1-7	48	24	8.00	2.5 PST	4'-6"	WB	
4	NINE BUTTON OBJECT MARKER TYPE 4	315+17	RT	OM4-1	18	18	2.25	-	-	WB	MOUNT BELOW SIGN # 3
5	EAGLECREST SKI AREA →	316+40	LT	D1-2A-1	72	24	12.00	(2) 2.5 PST	4'-6"	EB	
6	HORSE CROSSING (SYMBOL)	320+25	RT	RS-64	30	30	6.25	2.5 PST	4'-6"	WB	
7	NINE MILE CREEK	321+90	RT	D3-1	24	6	1.00	2.5 PST	4'-6"	SB	MOUNT ABOVE SIGN # 8
8	STOP	321+90	RT	R1-1	30	30	6.25	-	-	SB	
9	MILE MARKER "7"	325+00	RT	D10-1	10	18	1.25	2.5 PST	4'-6"	WB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D
10	MILE MARKER "7"	325+00	RT	D10-1	10	18	1.25	-	-	EB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D MOUNT BEHIND SIGN # 9
11	HOLMBERG LANE	363+25	RT	D3-1	24	6	1.00	2.5 PST	4'-6"	SB	MOUNT ABOVE SIGN # 12
12	STOP	363+25	RT	R1-1	30	30	6.25	-	-	SB	
13	MILE MARKER "8"	369+20	RT	D10-1	10	18	1.25	2.5 PST	4'-6"	WB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D
14	MILE MARKER "8"	369+20	RT	D10-1	10	18	1.25	-	-	EB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D MOUNT BEHIND SIGN # 13
15	SUNDOWN DRIVE	373+10	RT	D3-1	24	6	1.00	2.5 PST	4'-6"	SB	MOUNT ABOVE SIGN # 16
16	STOP	373+10	RT	R1-1	30	30	6.25	-	-	SB	
17	NARROW BRIDGE	384+00	RT	W5-2	36	36	9.00	2.5 PST	4'-6"	WB	
18	OBJECT MARKER TYPE 3	385+31	LT	OM-3L	12	36	3.00	2.5 PST	-	WB	MOUNT ON GUARDRAIL
19	OBJECT MARKER TYPE 3	385+31	RT	OM-3R	12	36	3.00	2.5 PST	-	WB	MOUNT ON GUARDRAIL
20	OBJECT MARKER TYPE 3	385+90	RT	OM-3R	12	36	3.00	2.5 PST	-	WB	MOUNT ON GUARDRAIL
21	FISH CREEK	385+80	RT	I-3	66	36	16.50	(2) 2.5 PST	4'-6"	WB	
22	FISH CREEK	387+50	LT	I-3	66	36	16.50	(2) 2.5 PST	4'-6"	EB	
23	OBJECT MARKER TYPE 3	387+40	RT	OM-3R	12	36	3.00	2.5 PST	-	EB	MOUNT ON GUARDRAIL
24	OBJECT MARKER TYPE 3	388+02	LT	OM-3R	12	36	3.00	2.5 PST	-	EB	MOUNT ON GUARDRAIL
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26	NARROW BRIDGE	390+60	LT	W5-2	36	36	9.00	2.5 PST	4'-6"	EB	
27	ADOPT A HIGHWAY	392+05	LT	I-150	30	24	5.00	2.5 PST	4'-6"	EB	
28	JRC THE ALASKA CLUB	392+05	LT	I-150	30	12	2.50	-	-	EB	MOUNT BELOW SIGN # 26 27
29	MILE MARKER "9"	422+00	RT	D10-1	10	18	1.25	2.5 PST	4'-6"	WB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D
30	MILE MARKER "9"	422+00	RT	D10-1	10	18	1.25	-	-	EB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D MOUNT BEHIND SIGN # 29
31	HORSE CROSSING (SYMBOL)	425+00	RT	RS-64	30	30	6.25	2.5 PST	4'-6"	EB	
32	ADOPT A HIGHWAY	443+55	RT	I-150	30	24	5.00	2.5 PST	4'-6"	WB	
33	ALASKA STATE EMPLOYEES ASSOCIATION	443+55	RT	I-150	30	12	2.50	-	-	WB	MOUNT BELOW SIGN # 30 32
34	MILE MARKER "10"	472+89	RT	D10-1	10	18	1.25	2.5 PST	4'-6"	WB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D
35	MILE MARKER "10"	472+89	RT	D10-1	10	18	1.25	-	-	EB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D MOUNT BEHIND SIGN # 32
36	SPEED LIMIT 45	479+63	RT	R2-1	30	36	7.50	2.5 PST	4'-6"	WB	
37	SPEED LIMIT 45	479+52	LT	R2-1	30	36	7.50	2.5 PST	4'-6"	WB	
38	MILE MARKER "11"	524+09	RT	D10-1	10	18	1.25	2.5 PST	4'-6"	WB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D
39	MILE MARKER "11"	524+09	RT	D10-1	10	18	1.25	-	-	EB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D MOUNT BEHIND SIGN # 36
40	ADOPT A HIGHWAY	548+94	LT	I-150	30	24	5.00	2.5 PST	4'-6"	EB	
41	ALASKA STATE EMPLOYEES ASSOCIATION	548+94	LT	I-150	30	12	2.50	-	-	EB	MOUNT BELOW SIGN # 38 40
42	MILE MARKER "12"	577+44	RT	D10-1	10	18	1.25	2.5 PST	4'-6"	WB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D
43	MILE MARKER "12"	577+44	RT	D10-1	10	18	1.25	-	-	EB	4" LETTERS, FONT SERIES B, 6" NUMBERS, FONT SERIES D MOUNT BEHIND SIGN # 40
44	END ROAD 1000 FT	619+04	RT	W14-101	36	36	9.00	2.5 PST	4'-6"	WB	
45	END ROAD 500 FT	627+11	RT	W14-101	36	36	9.00	2.5 PST	4'-6"	WB	
46	END	EOP	-	W14-100	30	30	6.25	2.5 PST	4'-6"	-	
47	NINE BUTTON OBJECT MARKER TYPE 4	EOP	-	OM4-1	18	18	2.25	-	-	-	MOUNT BELOW SIGN # 44 46

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN



DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

SUMMARIES

PATH: C:\JNU\69633\PLANSET\69633_D1_SUM.DWG
TAB: D1 Thursday, September 30, 2010 9:20:43 AM GRANTHAM, RICK L (DOT)

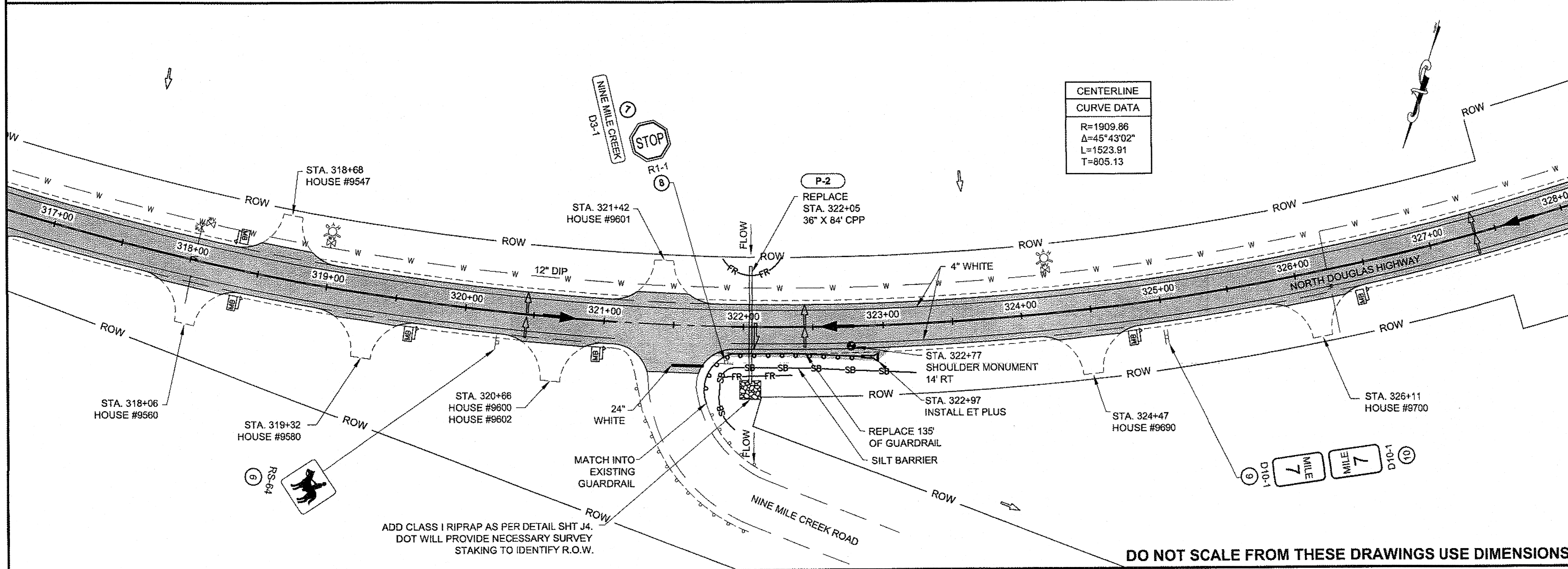
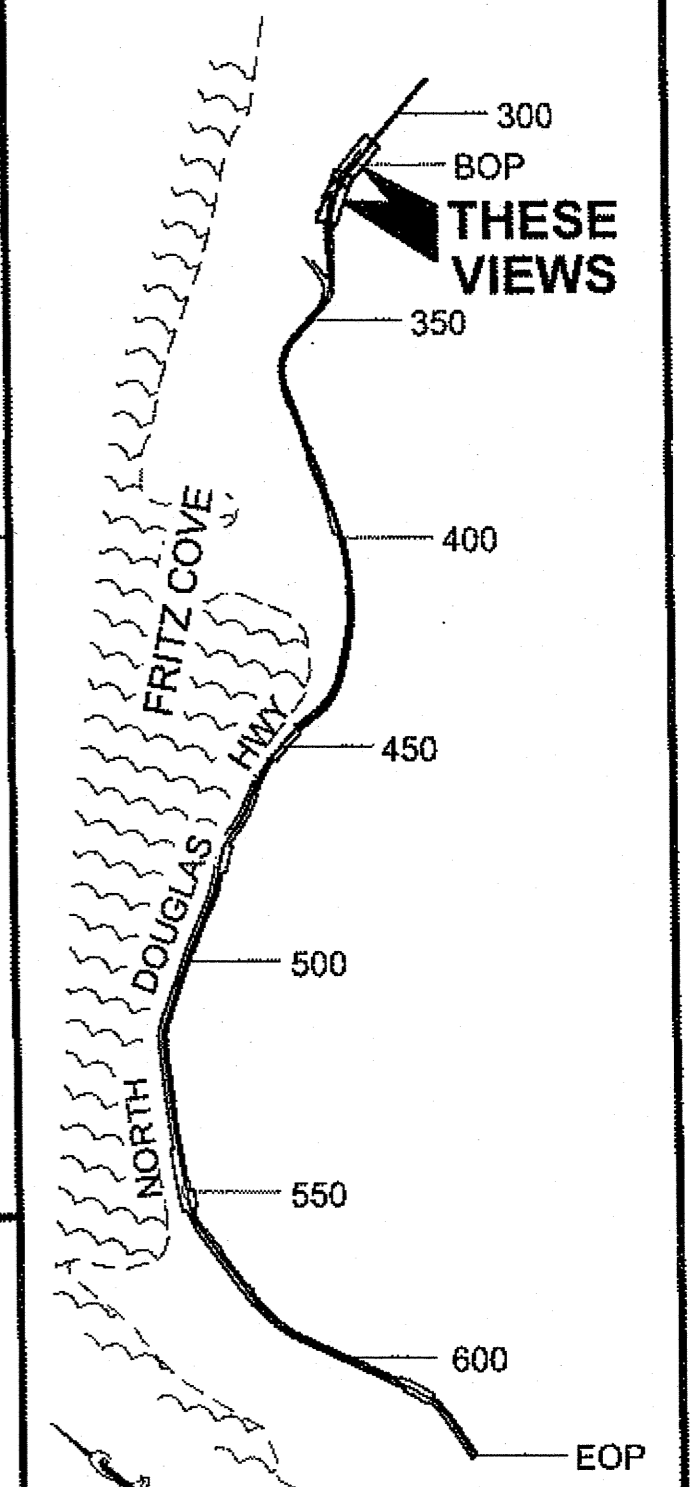
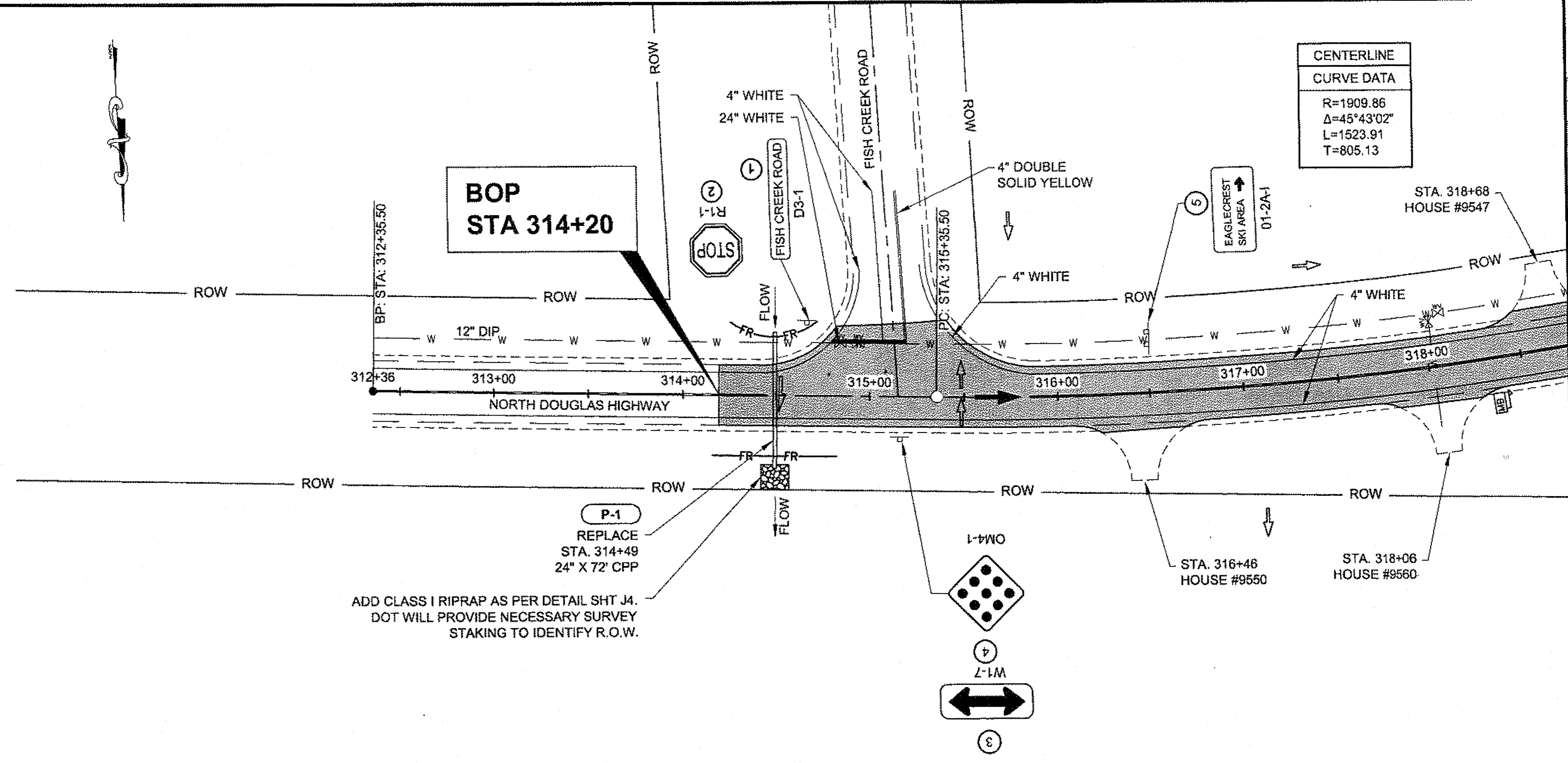
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0959(19)-69633	2010	D1	32

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RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

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Δ=	45°43'02"
L=	1523.91
T=	805.13

LEGEND	
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	SURFACE FLOW
	PROPOSED CULVERT FLOW
	EXISTING CULVERT FLOW
	FISH STREAM
	EXISTING DRAIN PATTERN
	EXISTING WATERLINE
	EXISTING EDGE OF SHOULDER
	RIGHT OF WAY
	SEDIMENT BARRIER
	FIBER ROLL
	BORE HOLE (PAVEMENT CORE SAMPLE LOCATION)
	EXISTING CENTERLINE MONUMENT
	SHOULDER MONUMENT
	MAIL BOX
	EXISTING MONUMENT



CENTERLINE CURVE DATA	
R=	1909.86
Δ=	45°43'02"
L=	1523.91
T=	805.13

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANHAM, D. MULLINER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

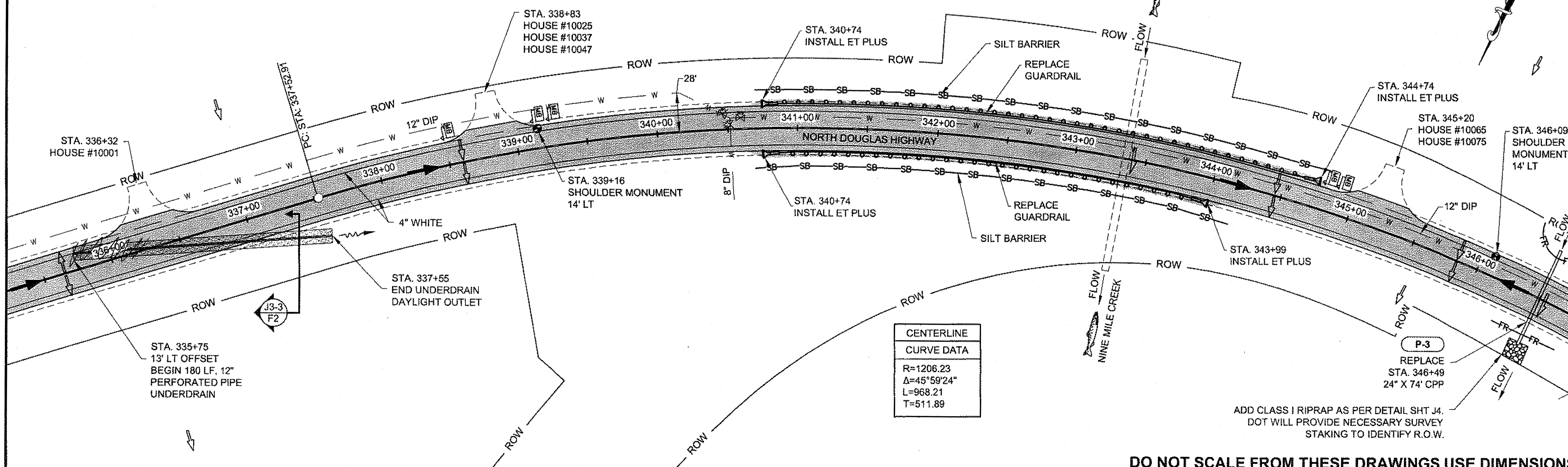
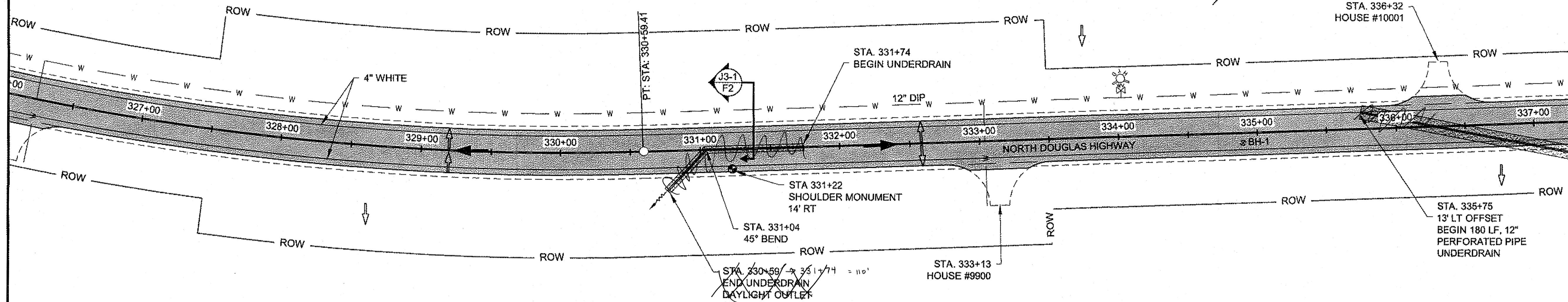
JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION	
NH-0959(19)-69633	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F1	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CENTERLINE CURVE DATA	
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Δ=	45°43'02"
L=	1523.91
T=	805.13



CENTERLINE CURVE DATA	
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T=	511.89

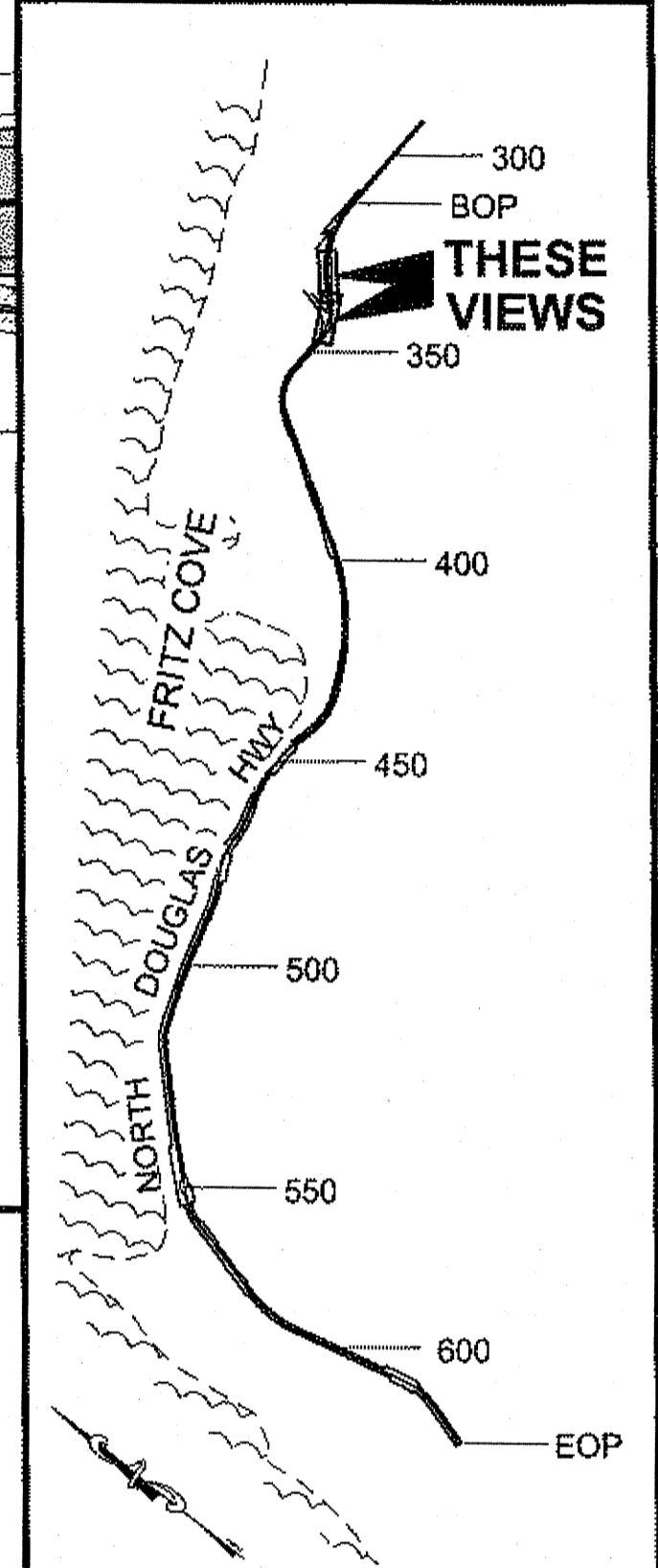
ADD CLASS I RIPRAP AS PER DETAIL SHT J4.
DOT WILL PROVIDE NECESSARY SURVEY STAKING TO IDENTIFY R.O.W.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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GRANTHAM, RICK L (DOT)
TAB: F2 Thursday, September 30, 2010 9:22:57 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

PLAN VIEW

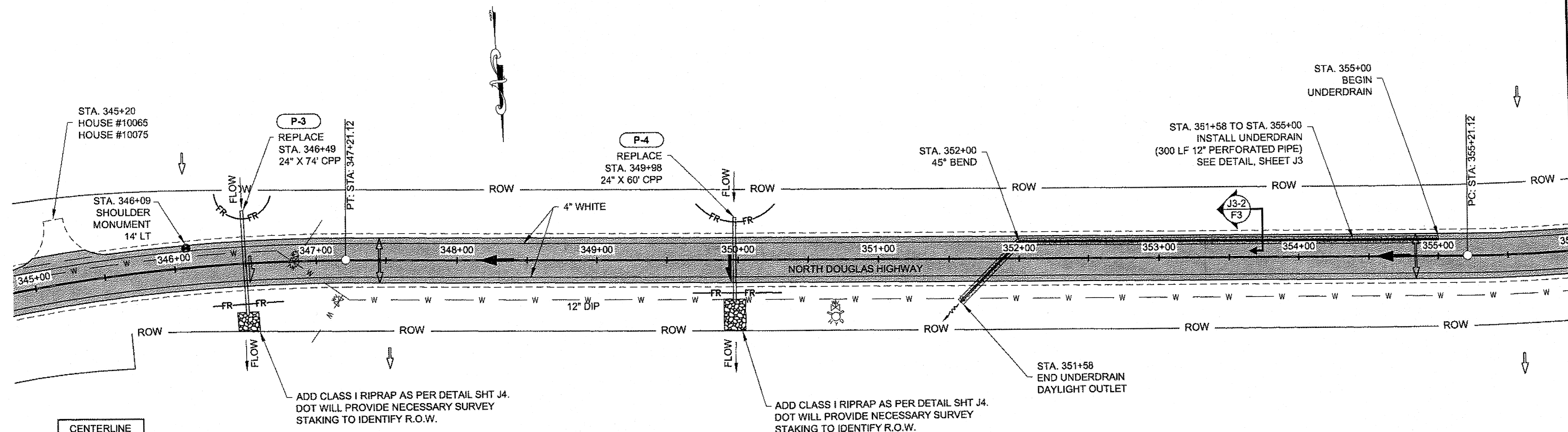
PROJECT DESIGNATION	
NH-0959(19)-69633	
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F2	32

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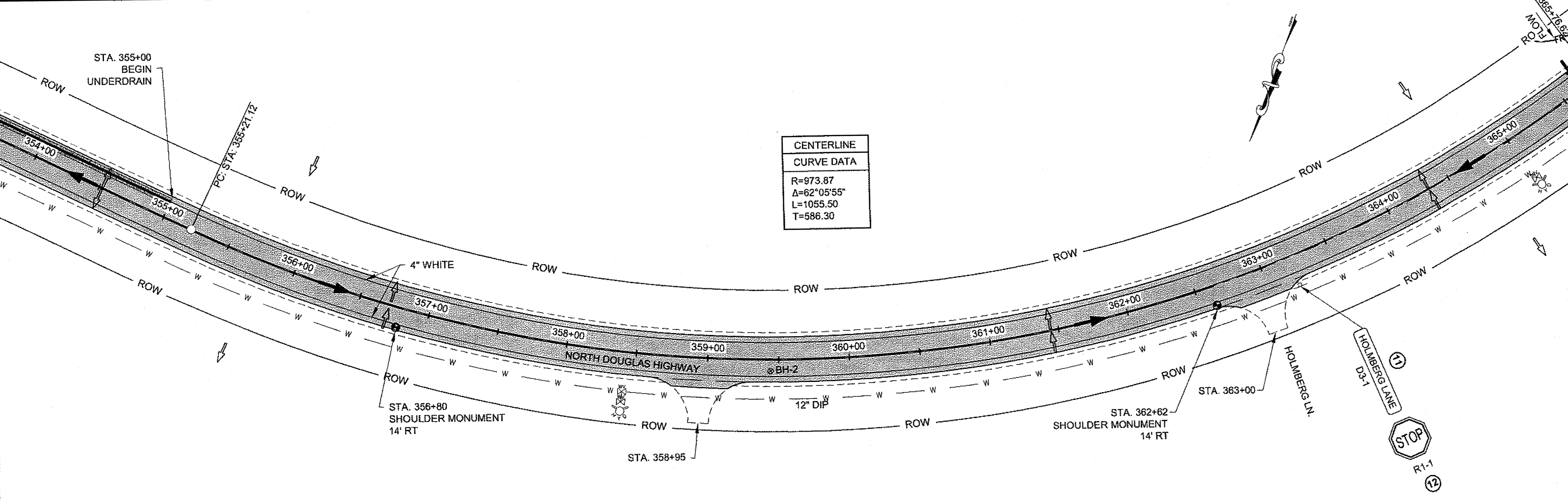
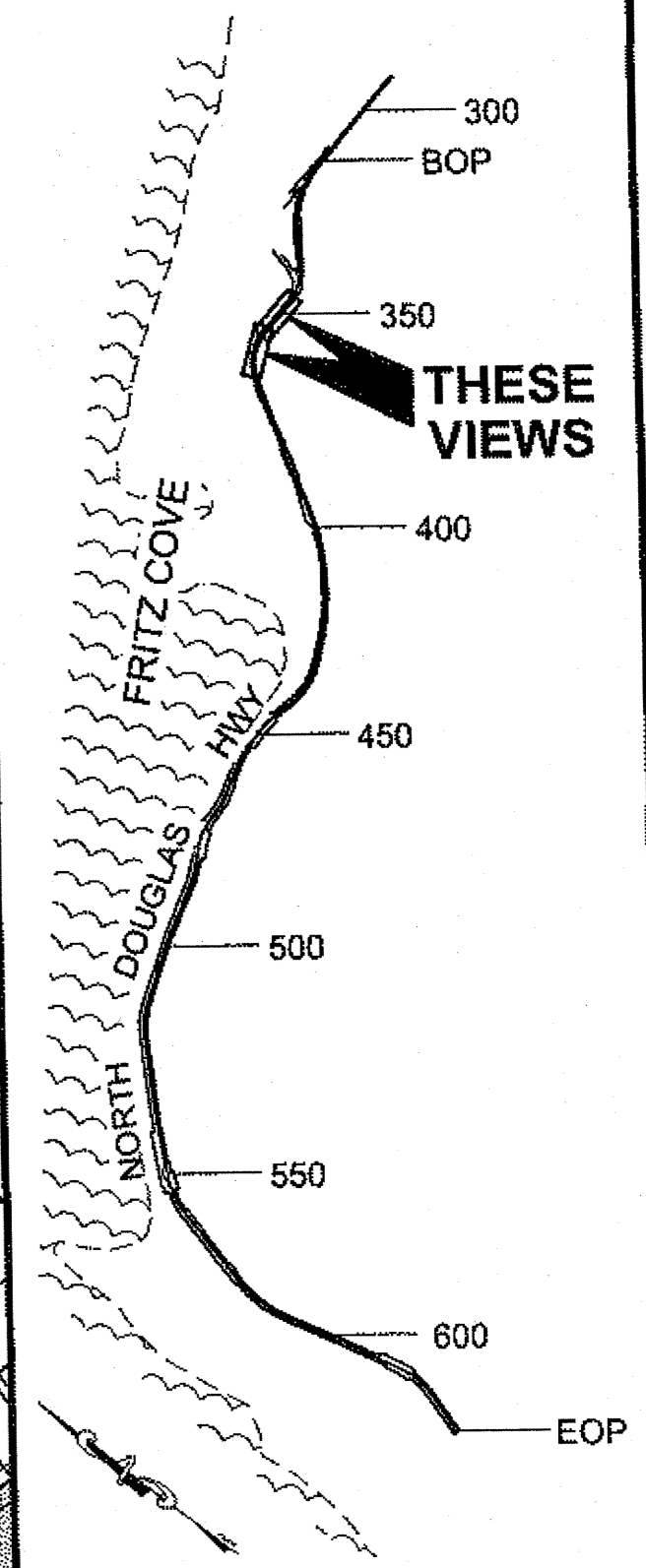
GRANTHAM, RICK L (DOT)

TAB: F3 Thursday, September 30, 2010 9:23:09 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



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T=511.89	



CENTERLINE CURVE DATA	
R=973.87	
$\Delta=62^{\circ}05'55''$	
L=1055.50	
T=586.30	

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F3	32

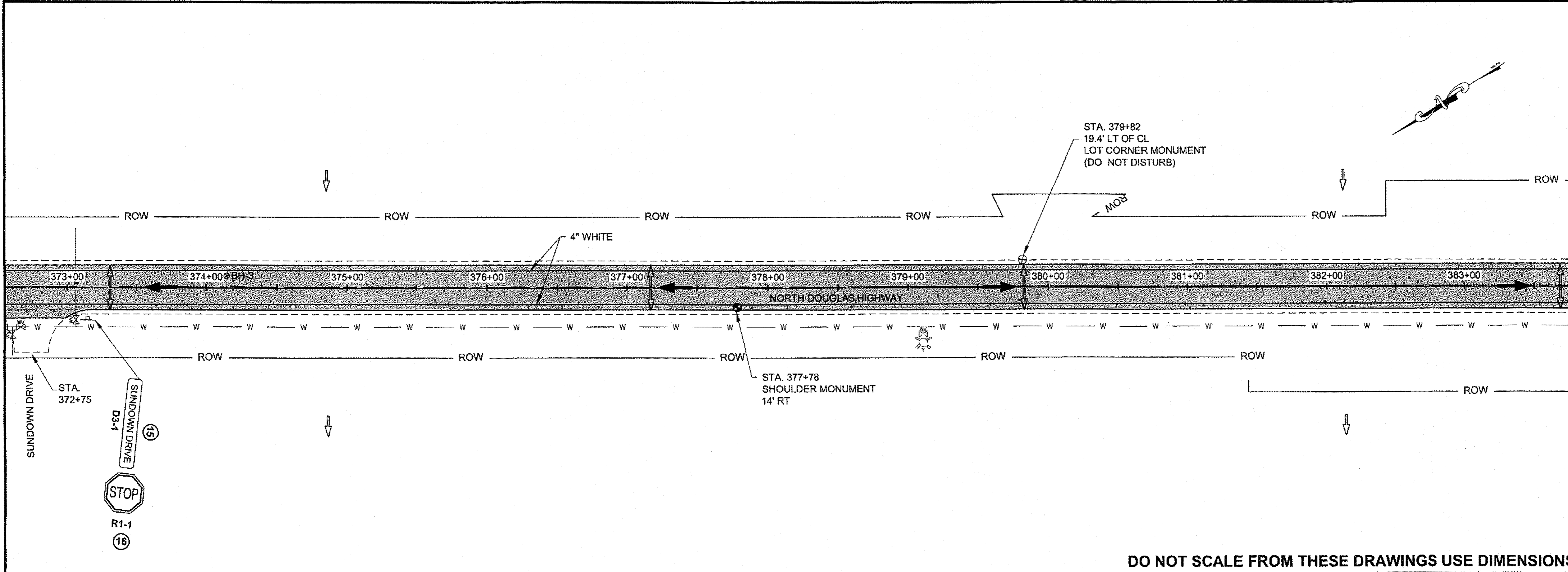
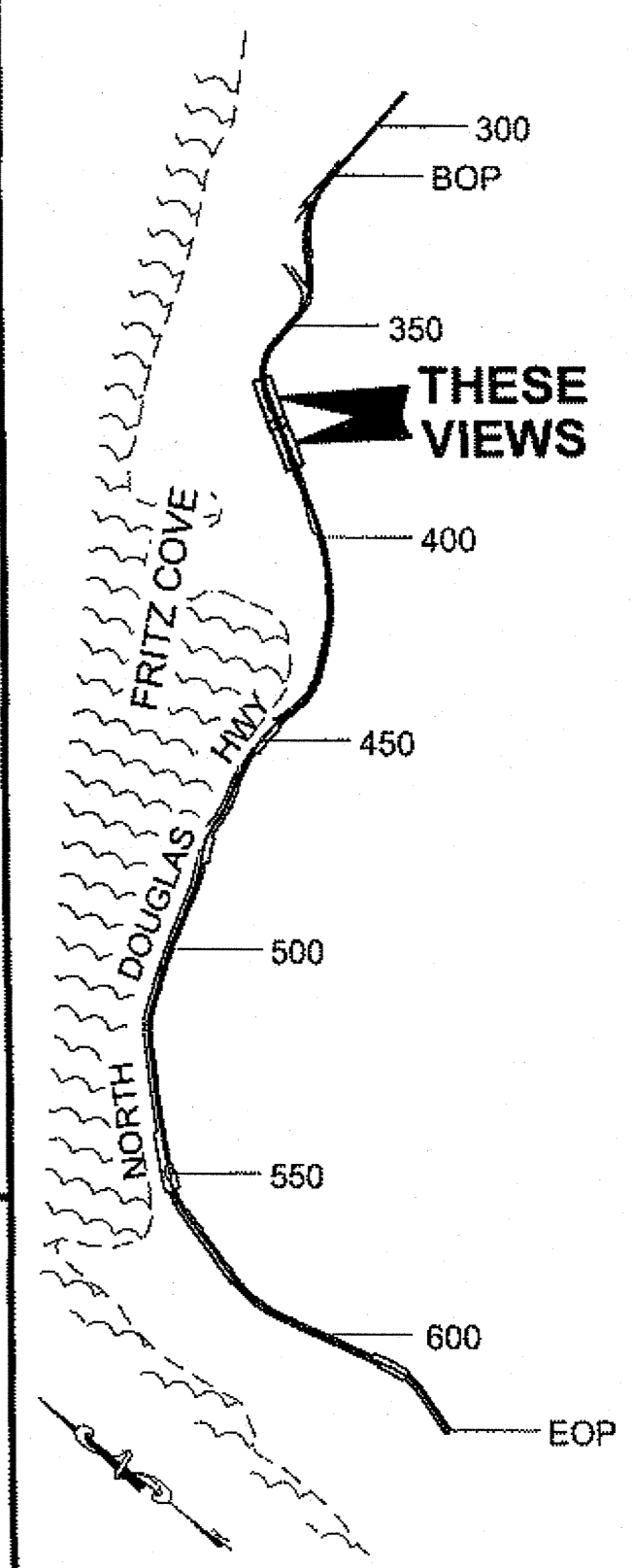
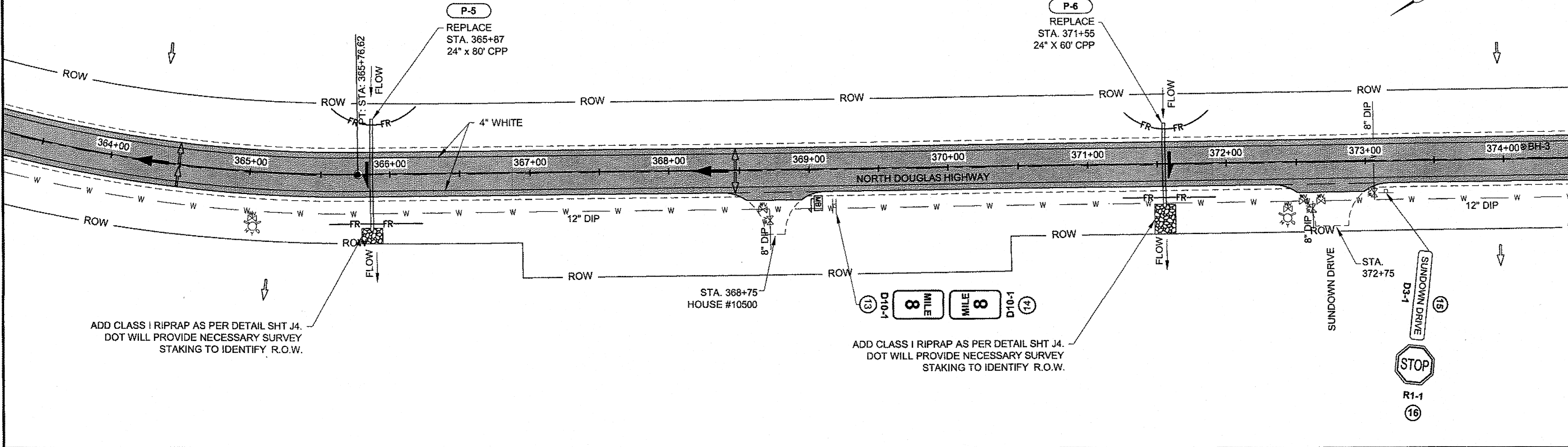
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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GRANTHAM, RICK L (DOT)
TAB: F4 Thursday, September 30, 2010 9:23:24 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

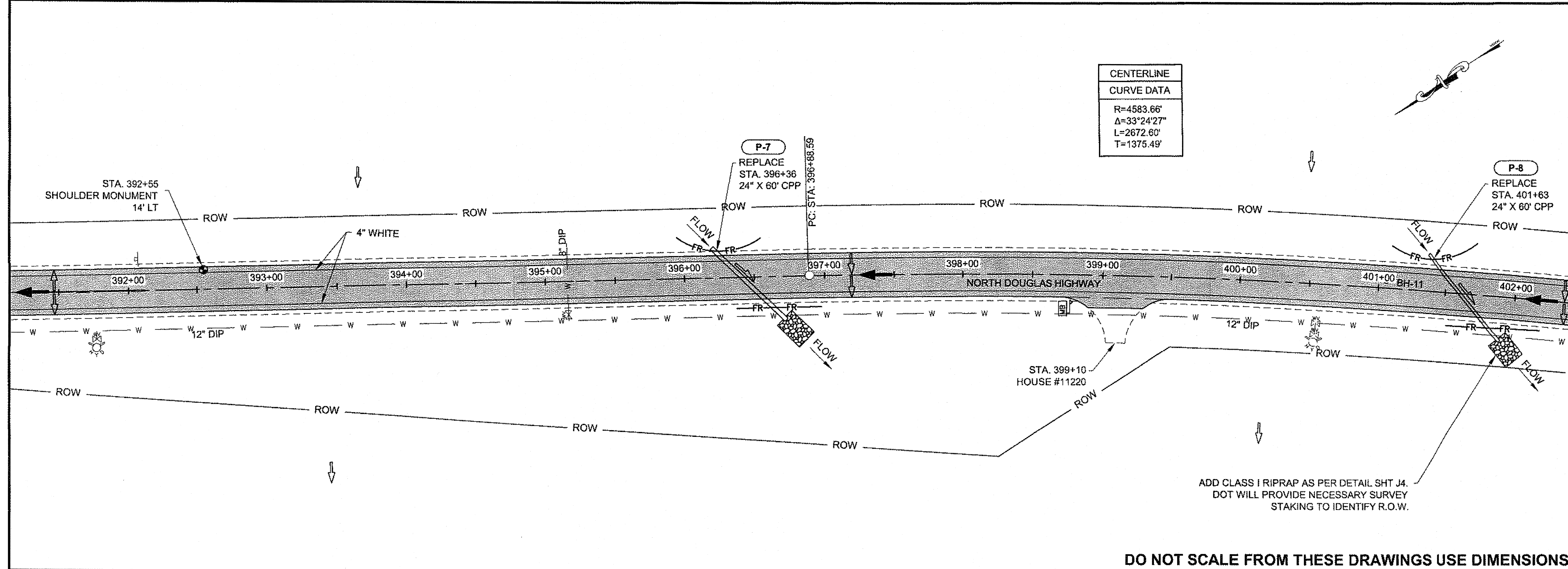
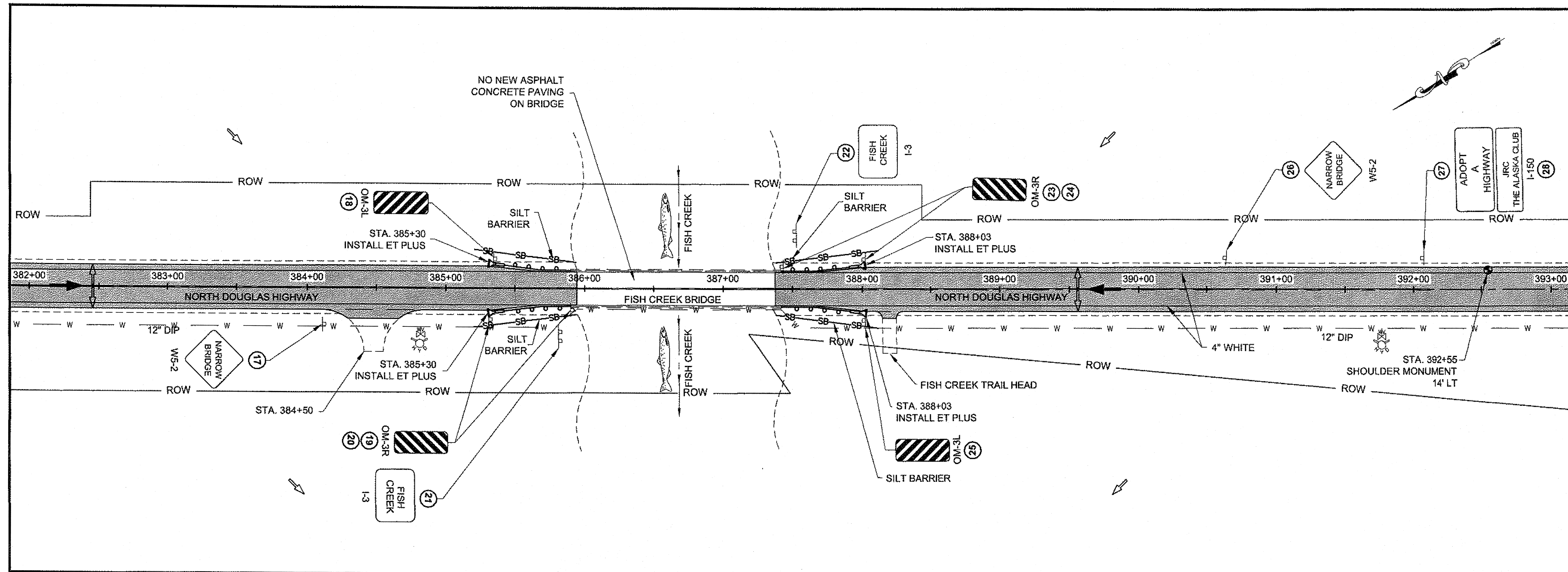
**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)~69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F4	32

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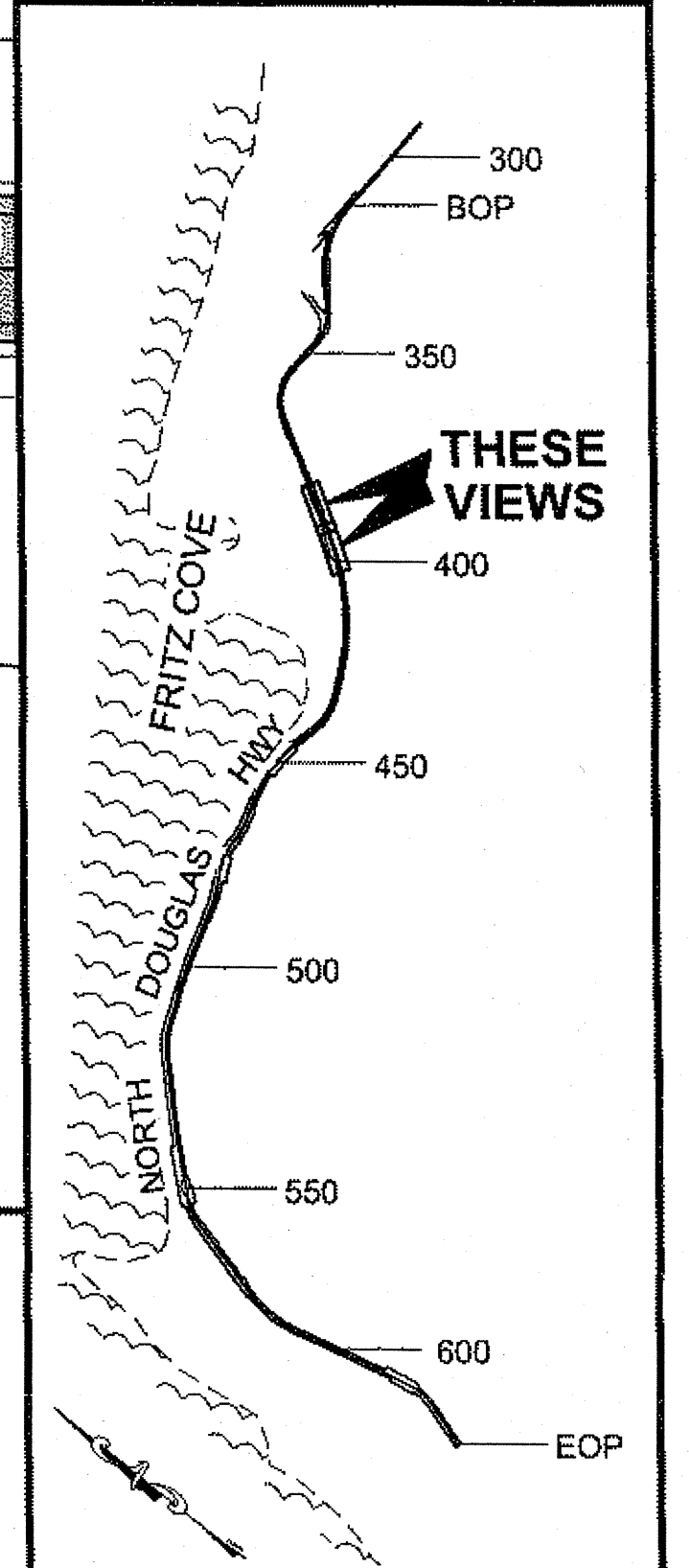
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GRANTHAM, RICK L (DOT)
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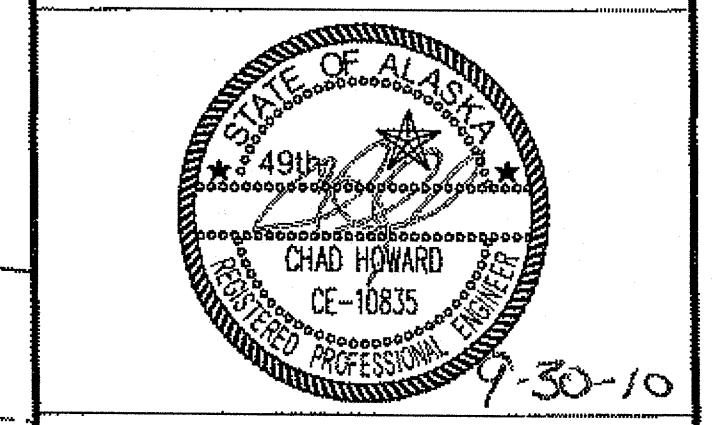
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

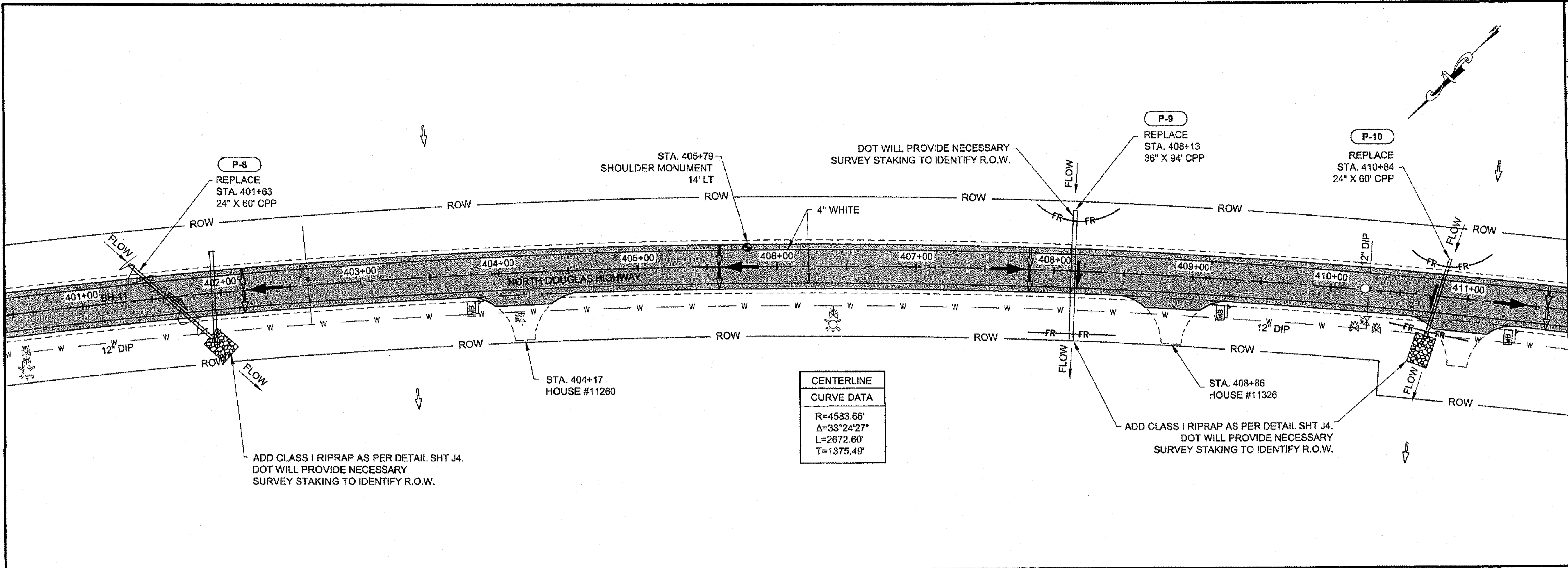
JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION

PLAN VIEW

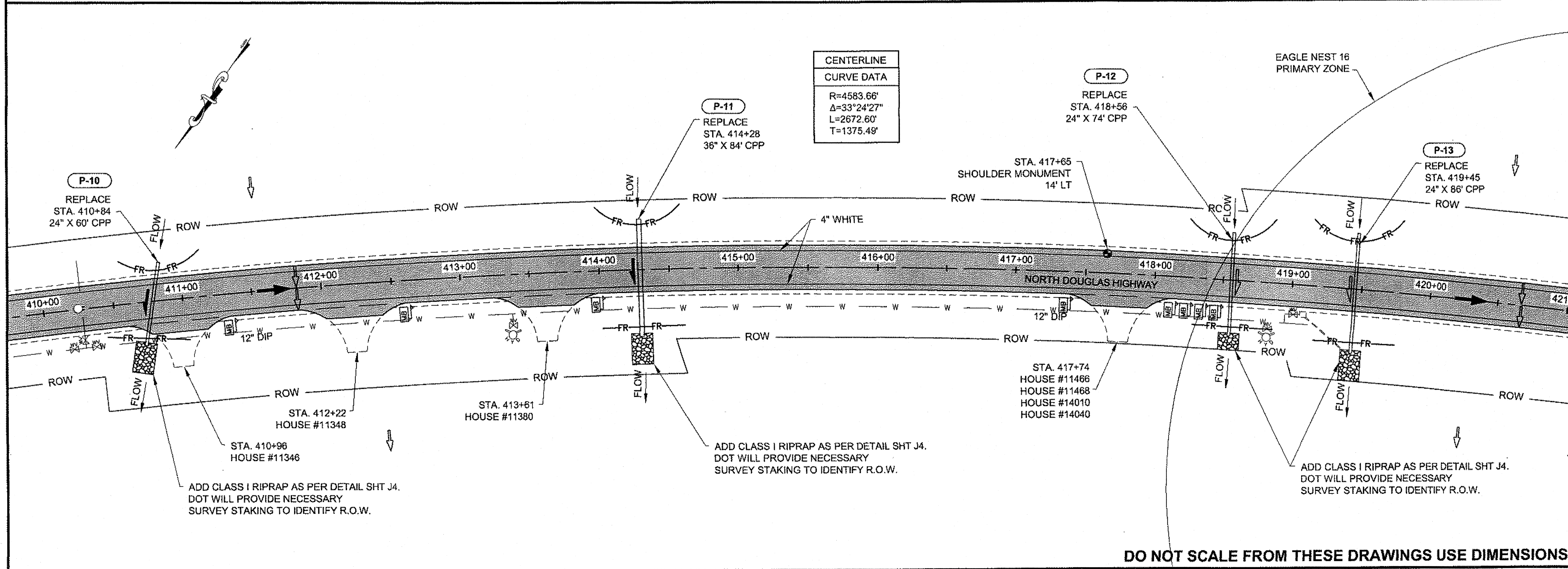
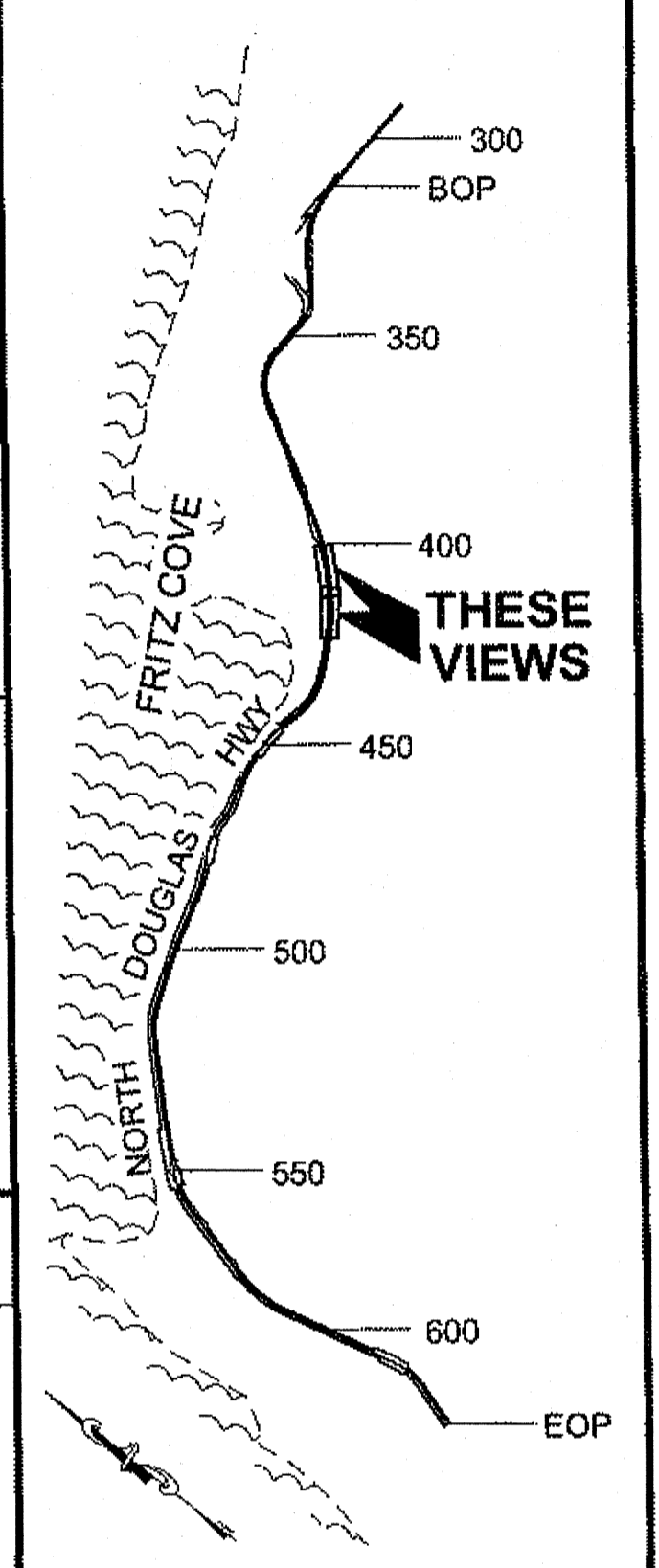
PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F5	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CENTERLINE CURVE DATA	
R=4583.66'	
$\Delta=33^{\circ}24'27''$	
L=2672.60'	
T=1375.49'	



CENTERLINE CURVE DATA	
R=4583.66'	
$\Delta=33^{\circ}24'27''$	
L=2672.60'	
T=1375.49'	

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANHAM, D. MULLINER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION

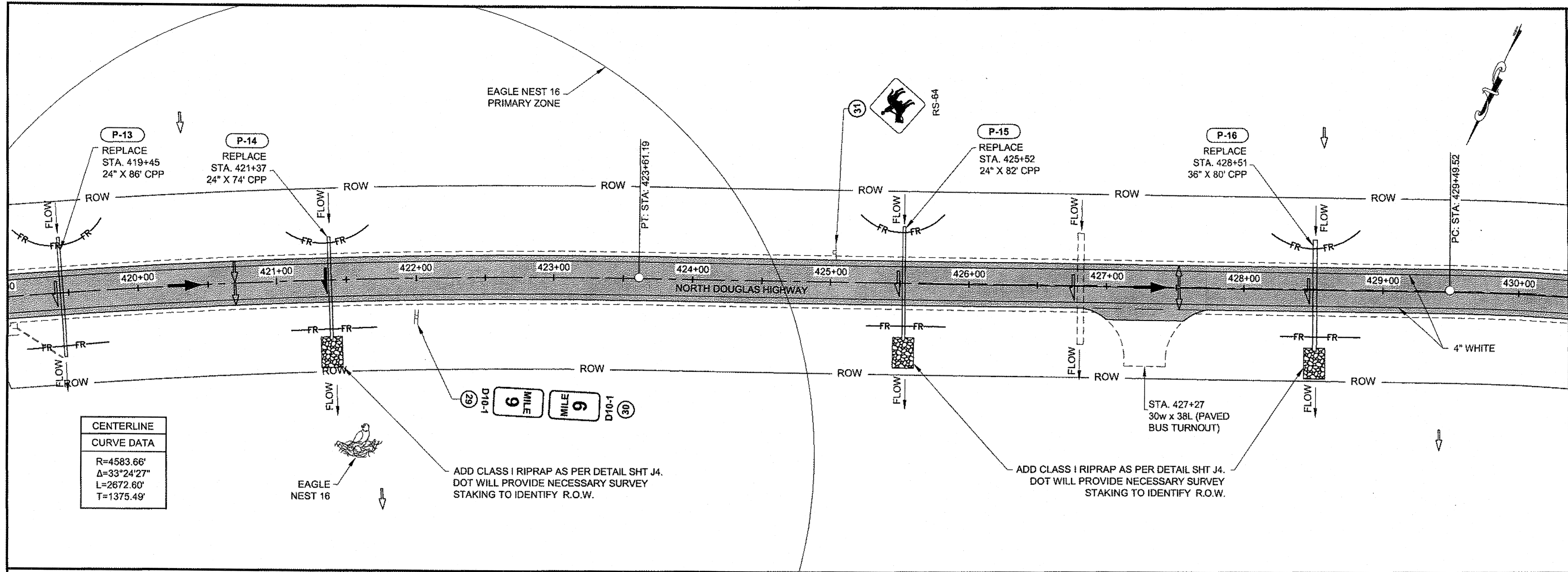
JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F6	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CENTERLINE CURVE DATA	
R=4583.66'	
Δ=33°24'27"	
L=2672.60'	
T=1375.49'	

PATH:
Q:\JNU\69633\PLANSET\69633_F1-F18.DWG

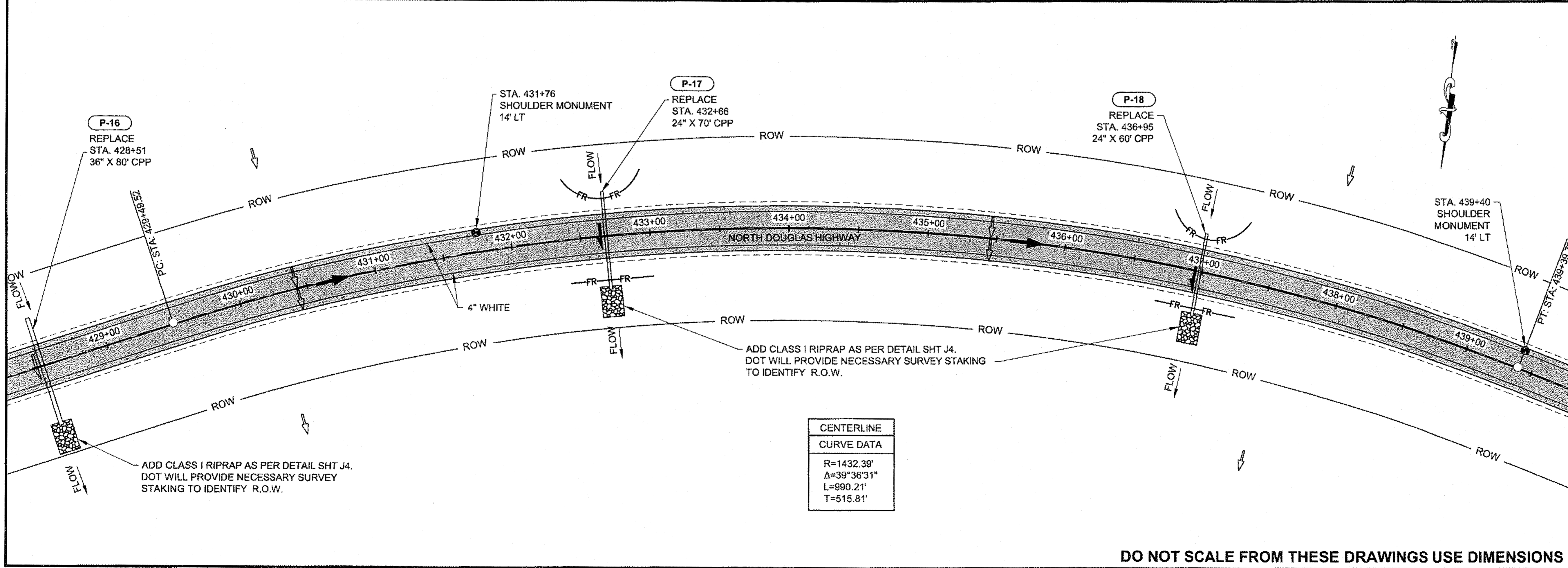
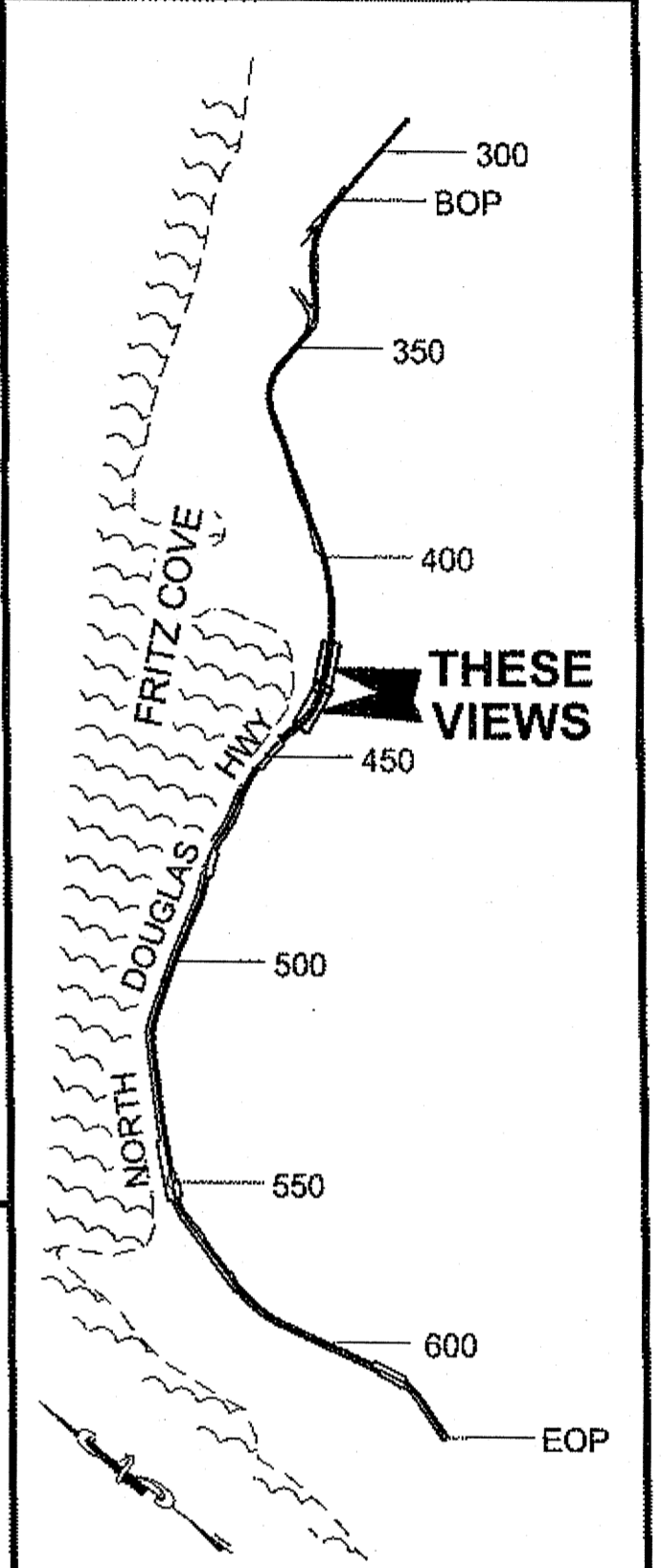
GRANTHAM, RICK L (DOT)
TAB: F7 Thursday, September 30, 2010 9:24:04 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CENTERLINE CURVE DATA	
R=1432.39'	
Δ=39°36'31"	
L=990.21'	
T=515.81'	

PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)~69633

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F7	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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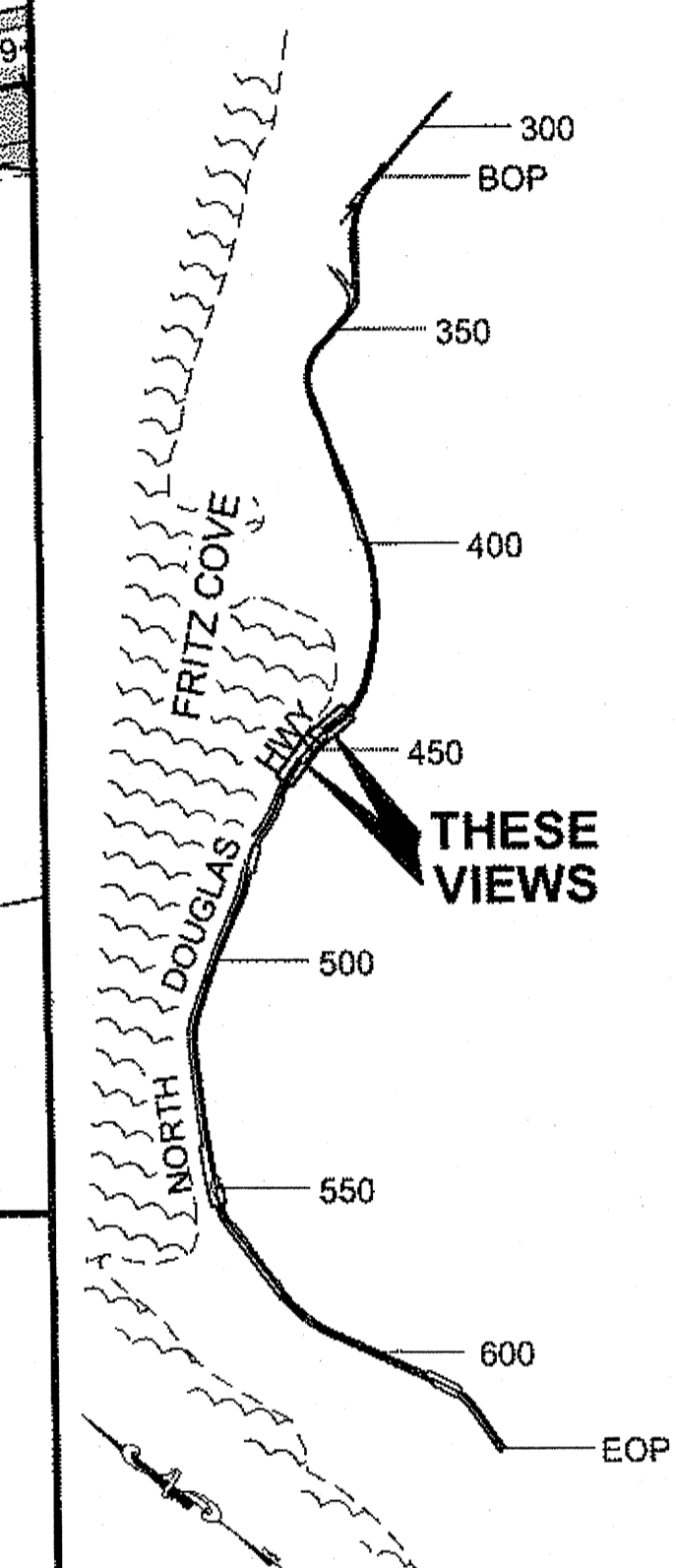
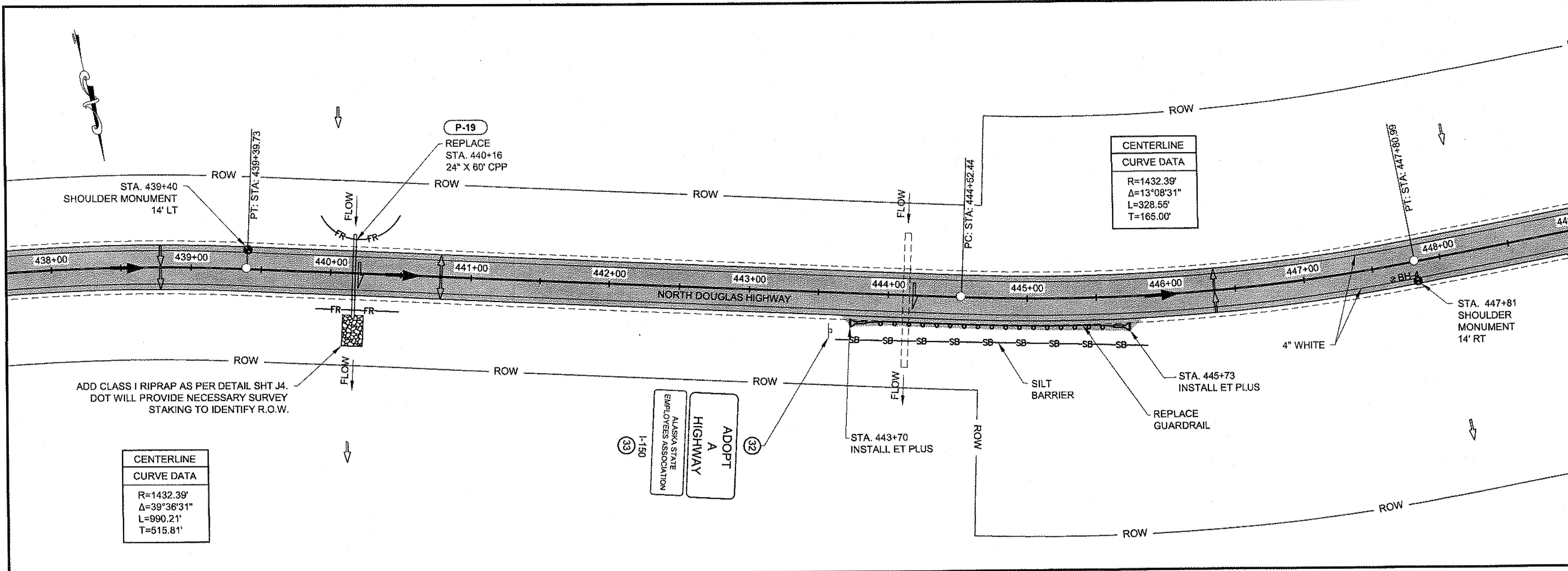
GRANTHAM, RICK L (DOT)
TAB: F8 Thursday, September 30, 2010 9:24:16 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

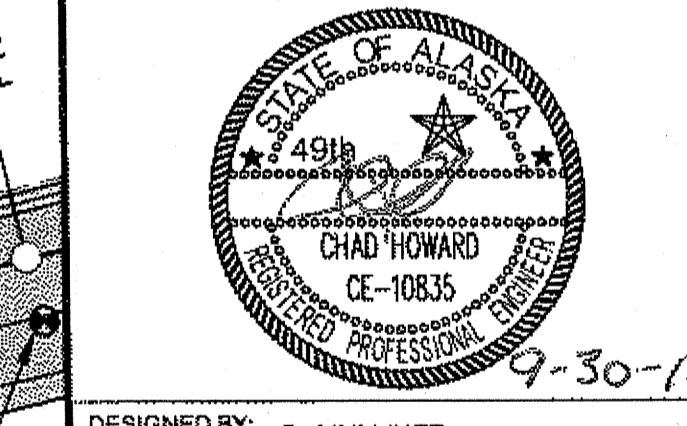
RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

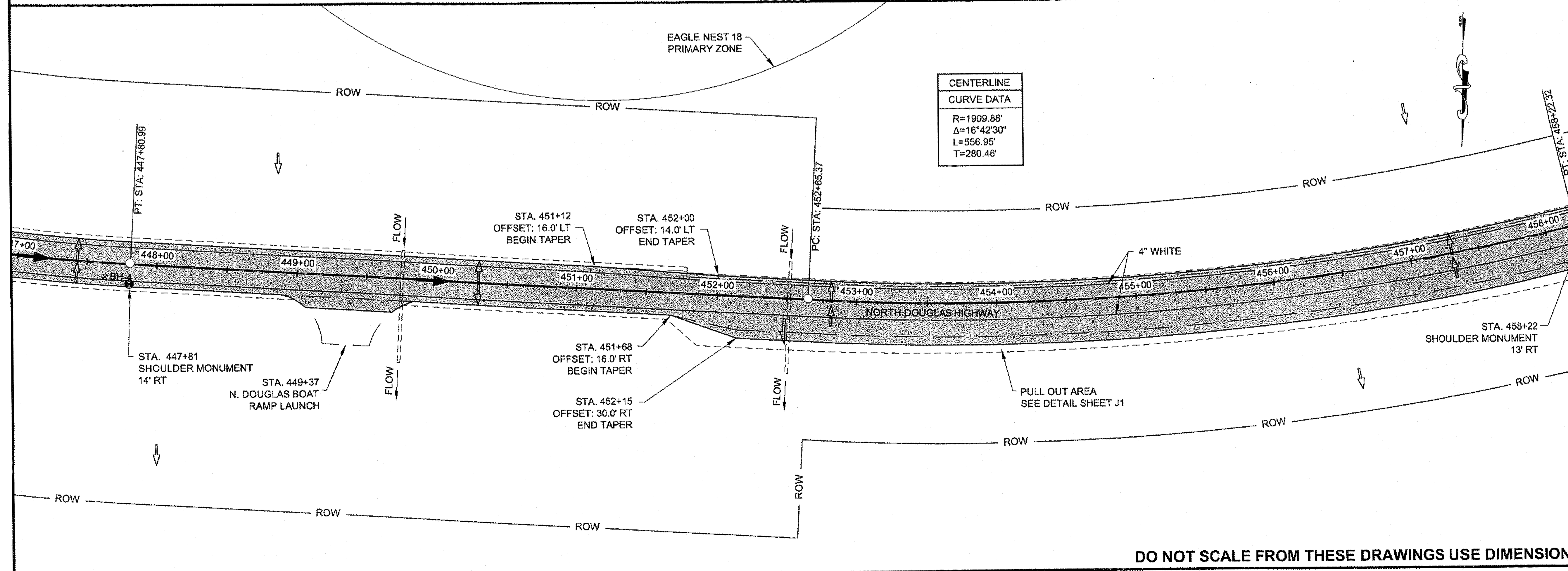
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION

PLAN VIEW

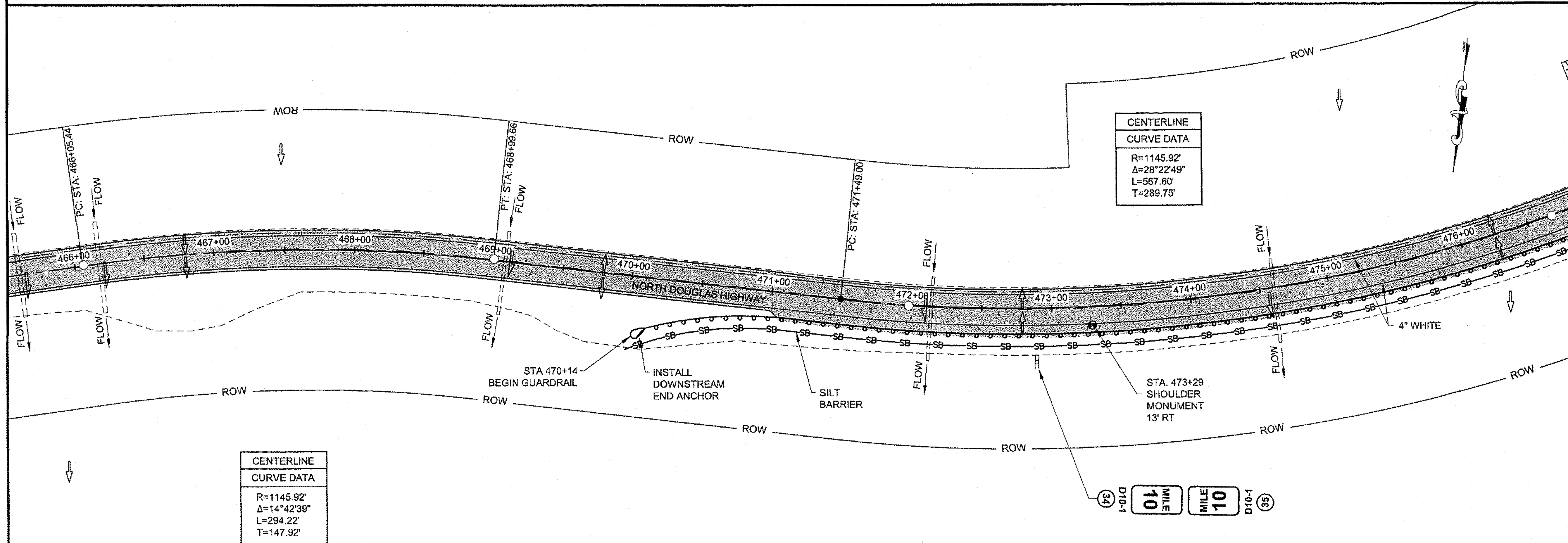
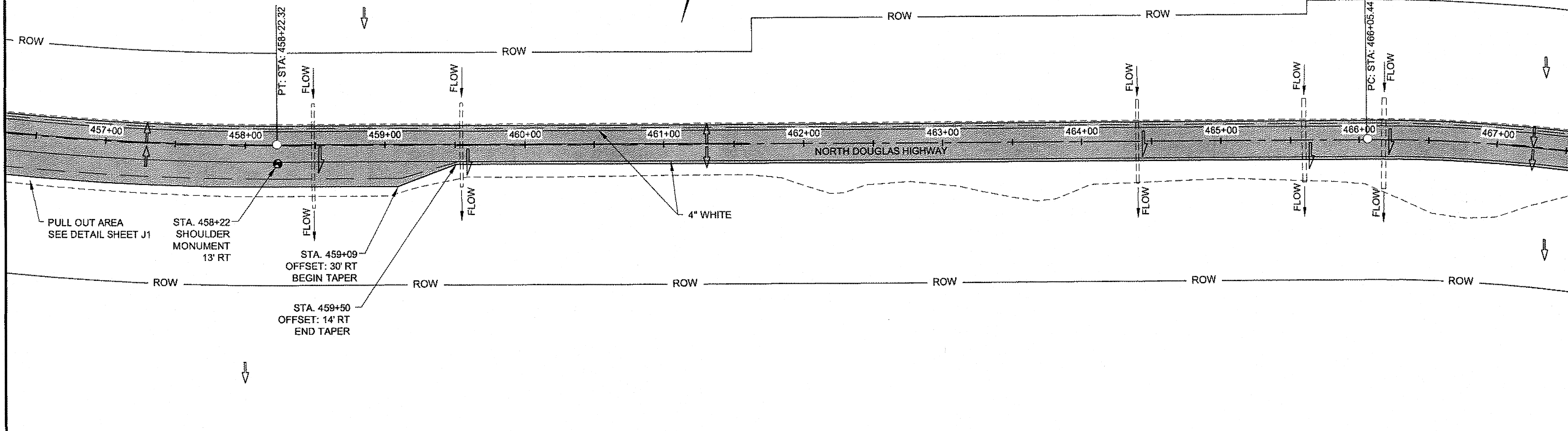
PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F8	32



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CENTERLINE	
CURVE DATA	
R=1909.86'	
Δ=16°42'30"	
L=556.95'	
T=280.46'	



CENTERLINE	
CURVE DATA	
R=1145.92'	
Δ=14°42'39"	
L=294.22'	
T=147.92'	

CENTERLINE	
CURVE DATA	
R=1145.92'	
Δ=28°22'49"	
L=567.60'	
T=289.75'	

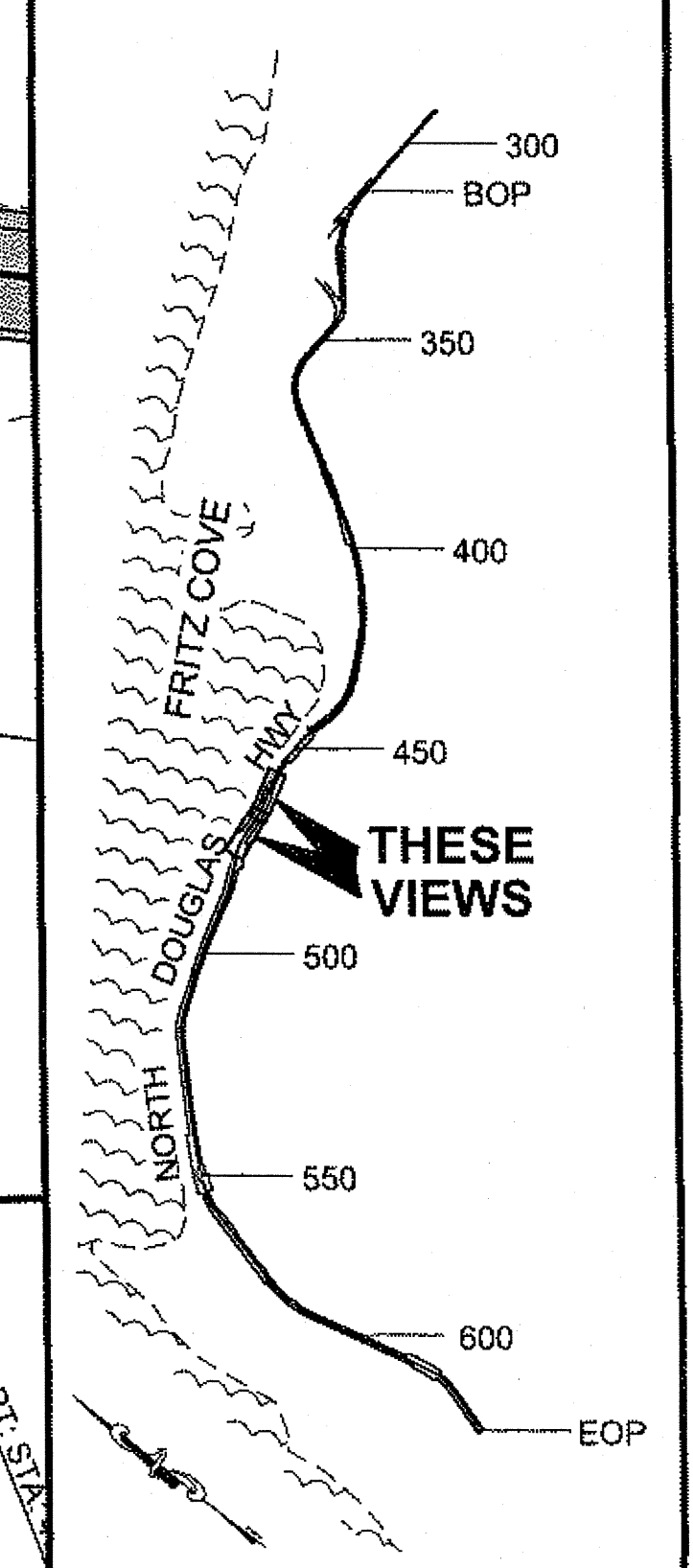


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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GRANTHAM, RICK L (DOT)
TAB: F9 Thursday, September 30, 2010 9:24:29 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)~69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F9	32

PATH:
Q:\JNU\69633\PLANSET\69633_F1-F16.DWG

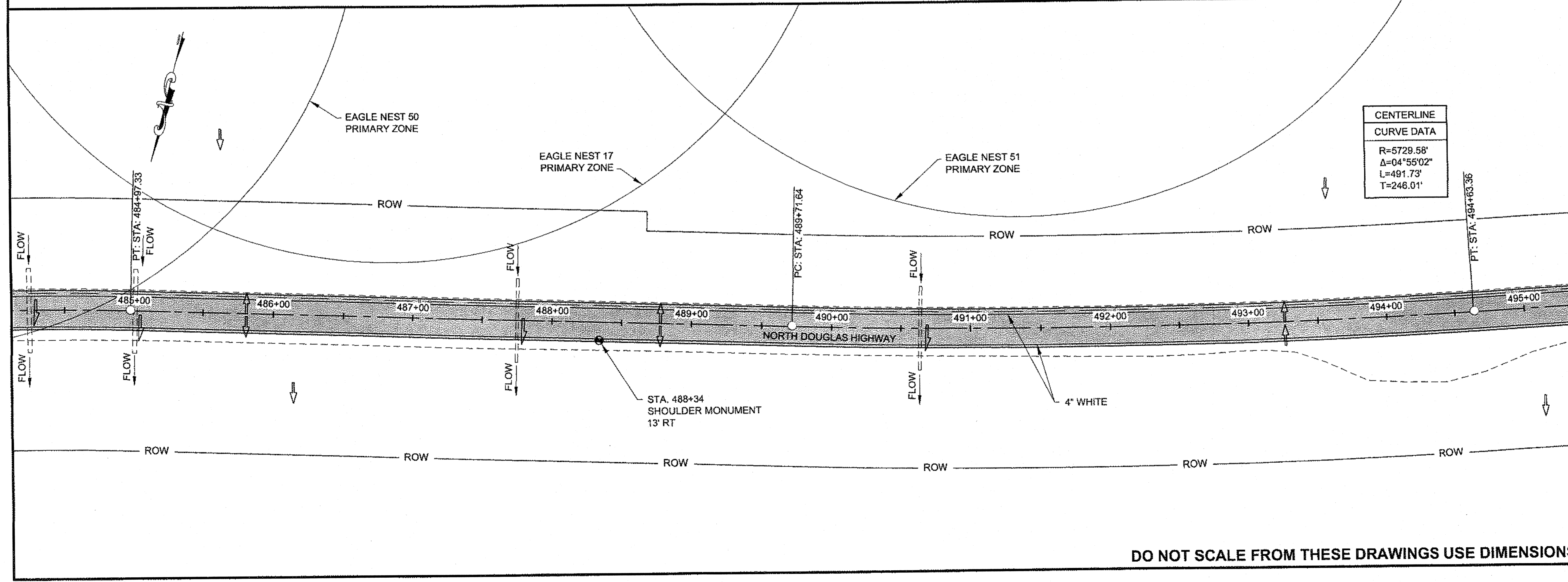
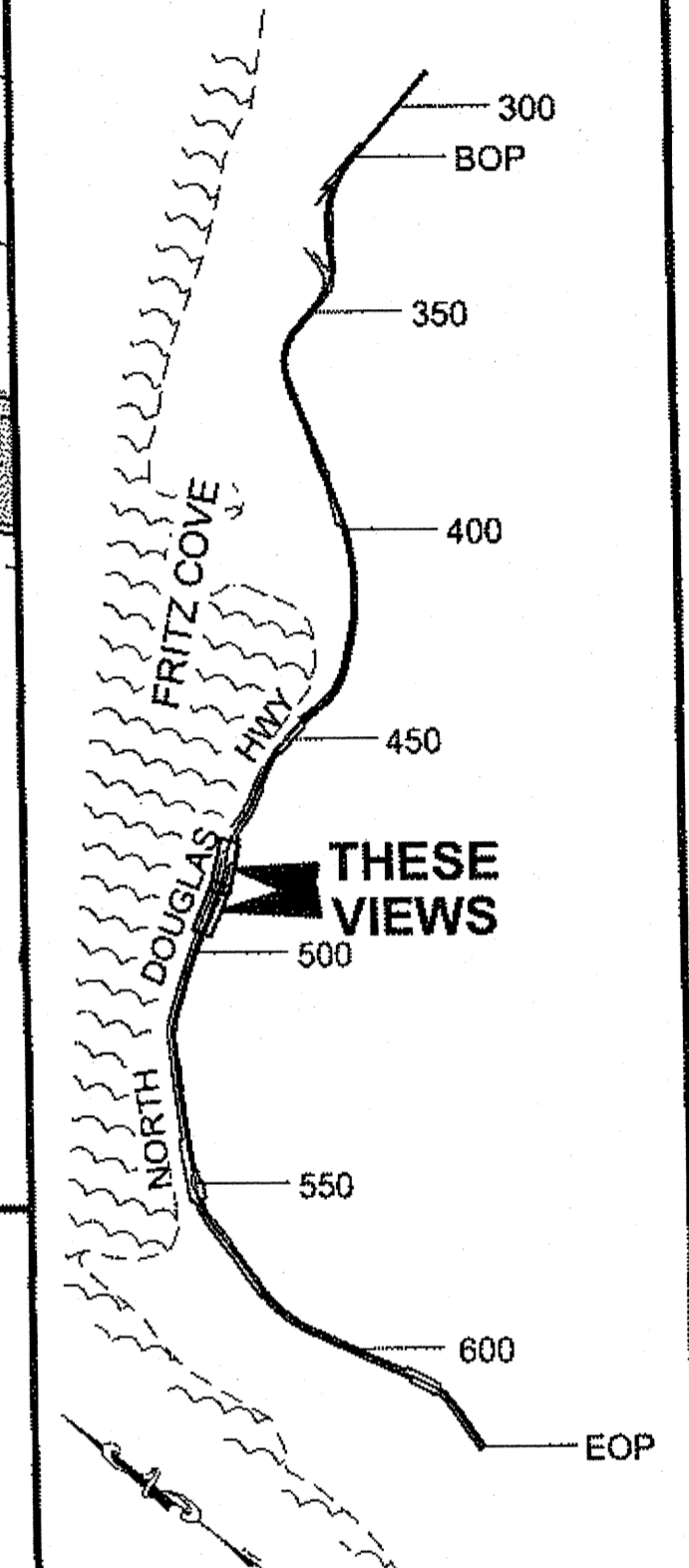
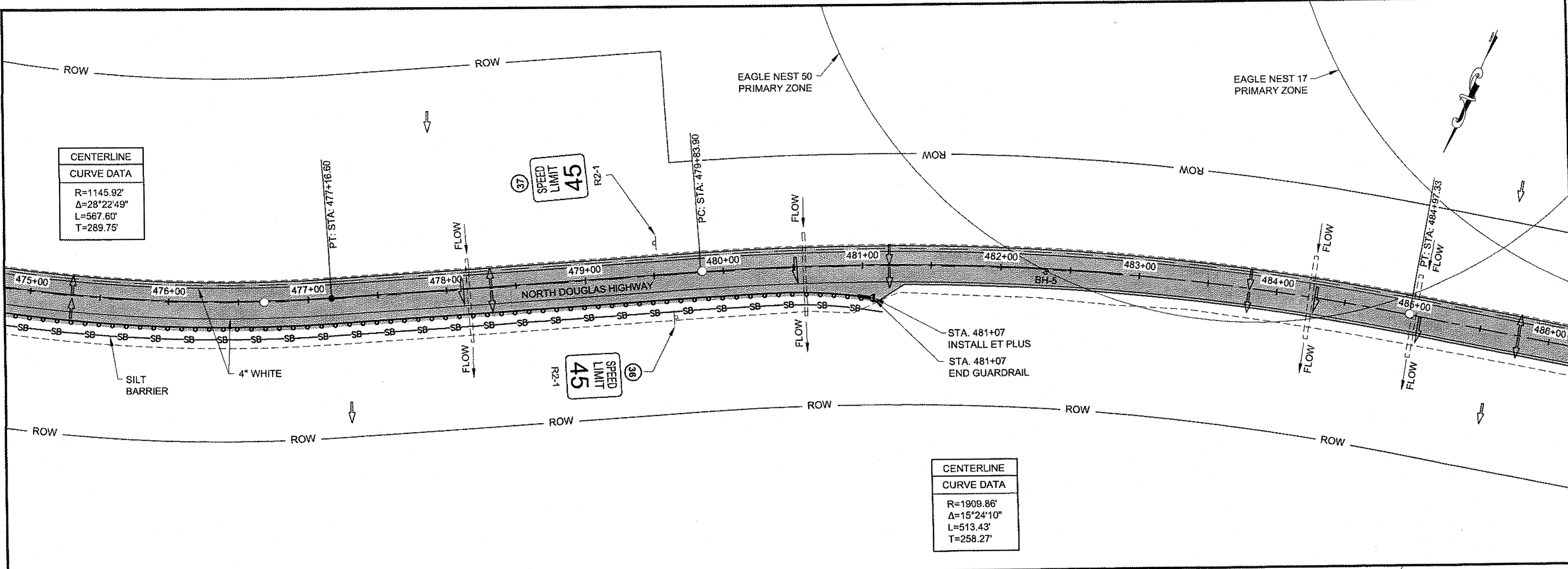
GRANTHAM, RICK L (DOT)
TAB: F10 Thursday, September 30, 2010 9:24:54 AM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

PLAN VIEW

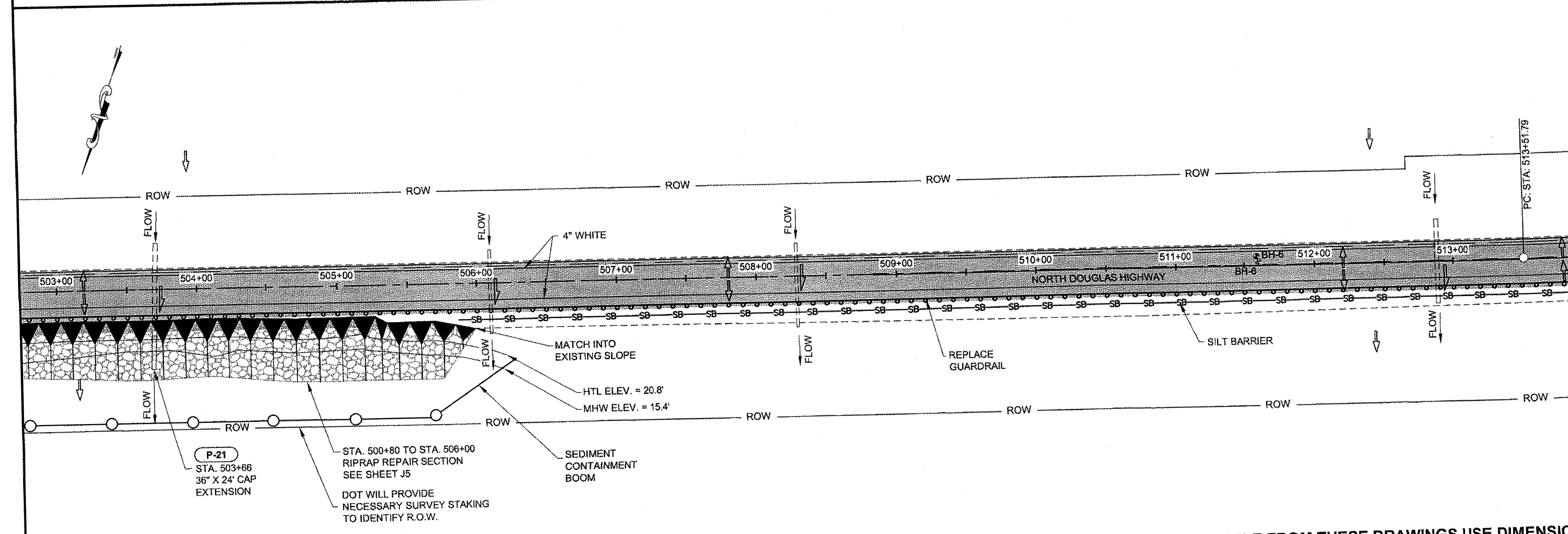
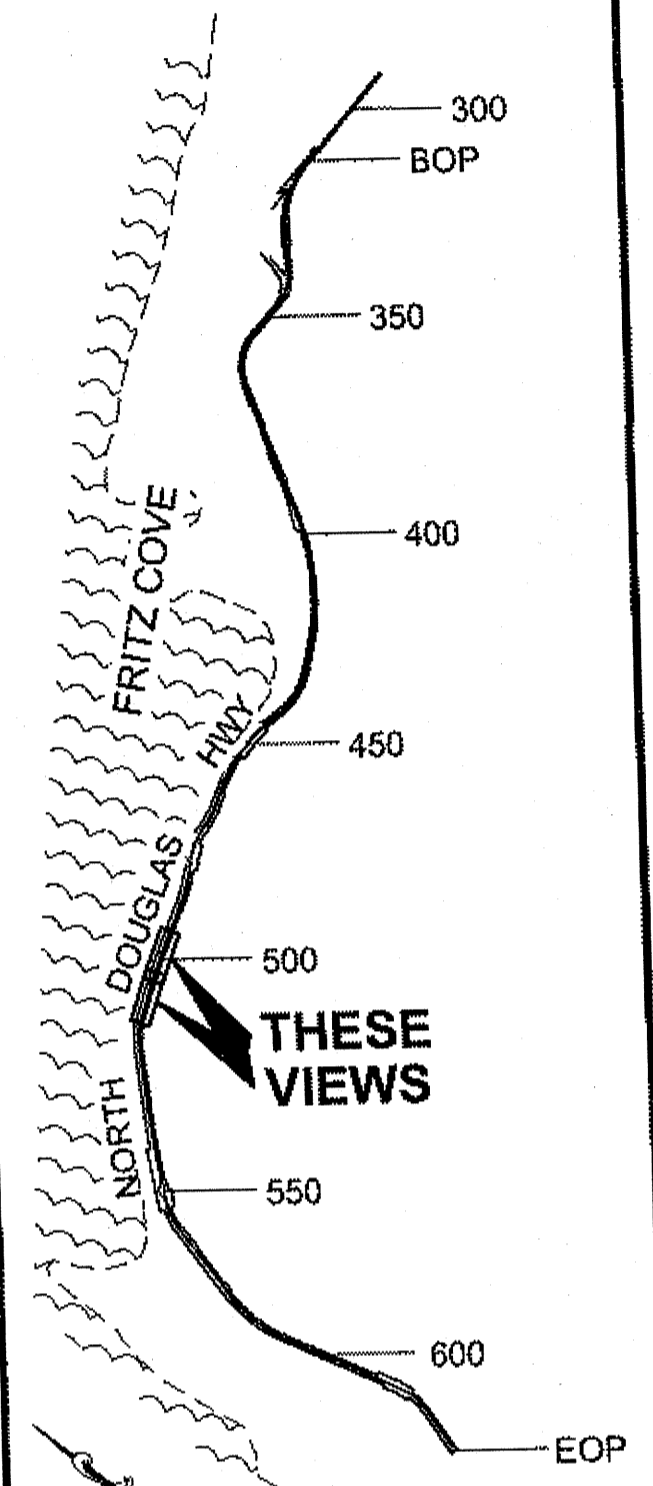
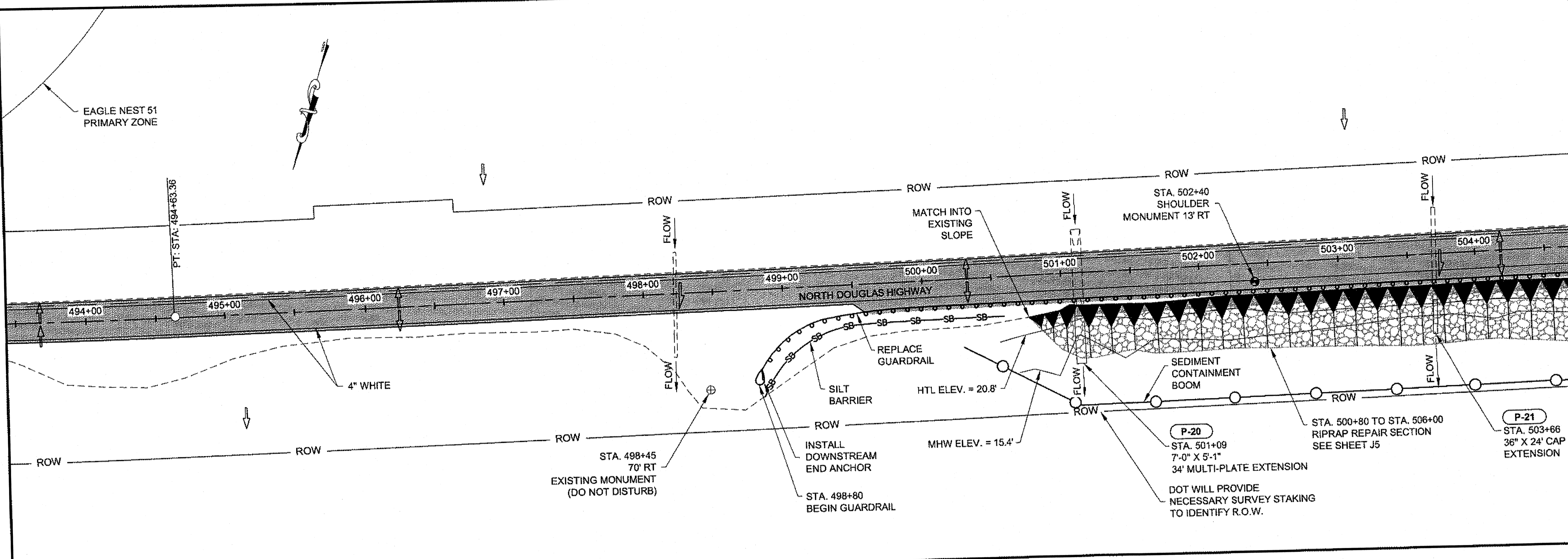
PROJECT DESIGNATION
NH-0959(19)~69633

STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F10	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
 Q:\JNU\69633\PLANSET\69633_F1-F18.DWG
 GRANHAM, RICK L (DOT)
 TAB: F11 Thursday, September 30, 2010 9:25:09 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION



CHECKED BY: C. HOWARD

 DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANHAM, D. MULLINER
 STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F11	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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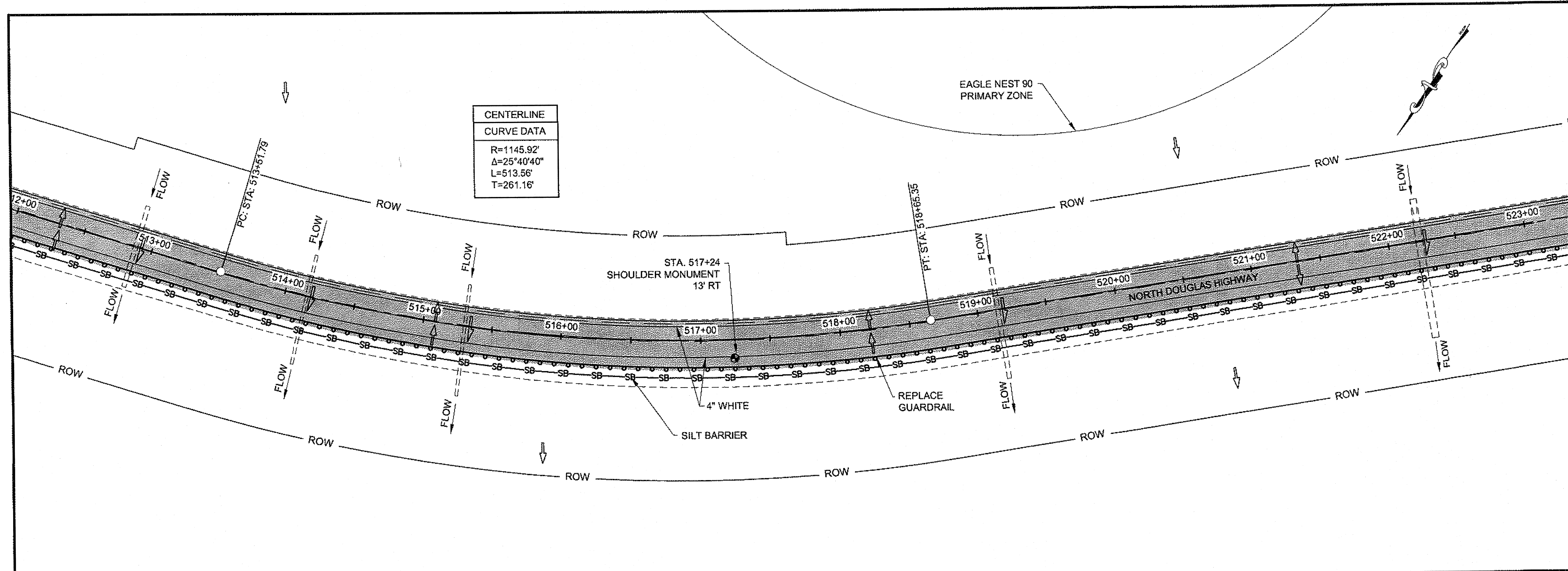
GRANTHAM, RICK L (DOT)
TAB: F12 Thursday, September 30, 2010 9:25:22 AM

ADDENDUM NUMBER

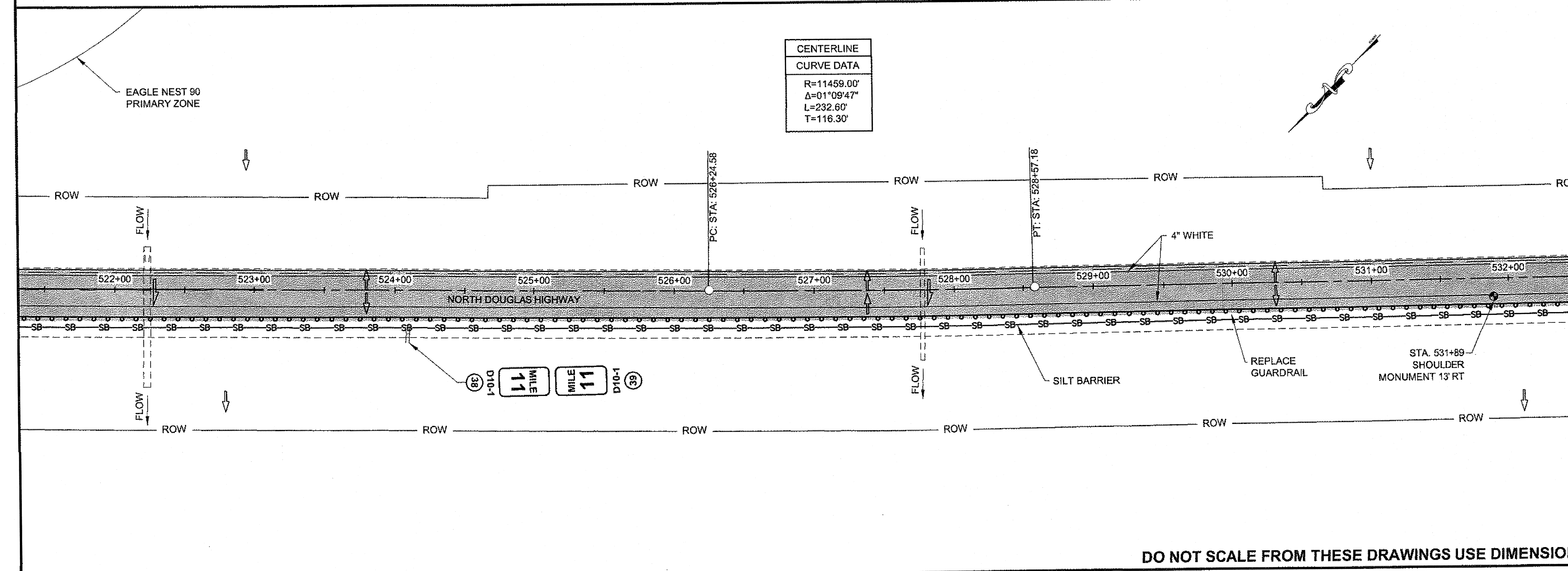
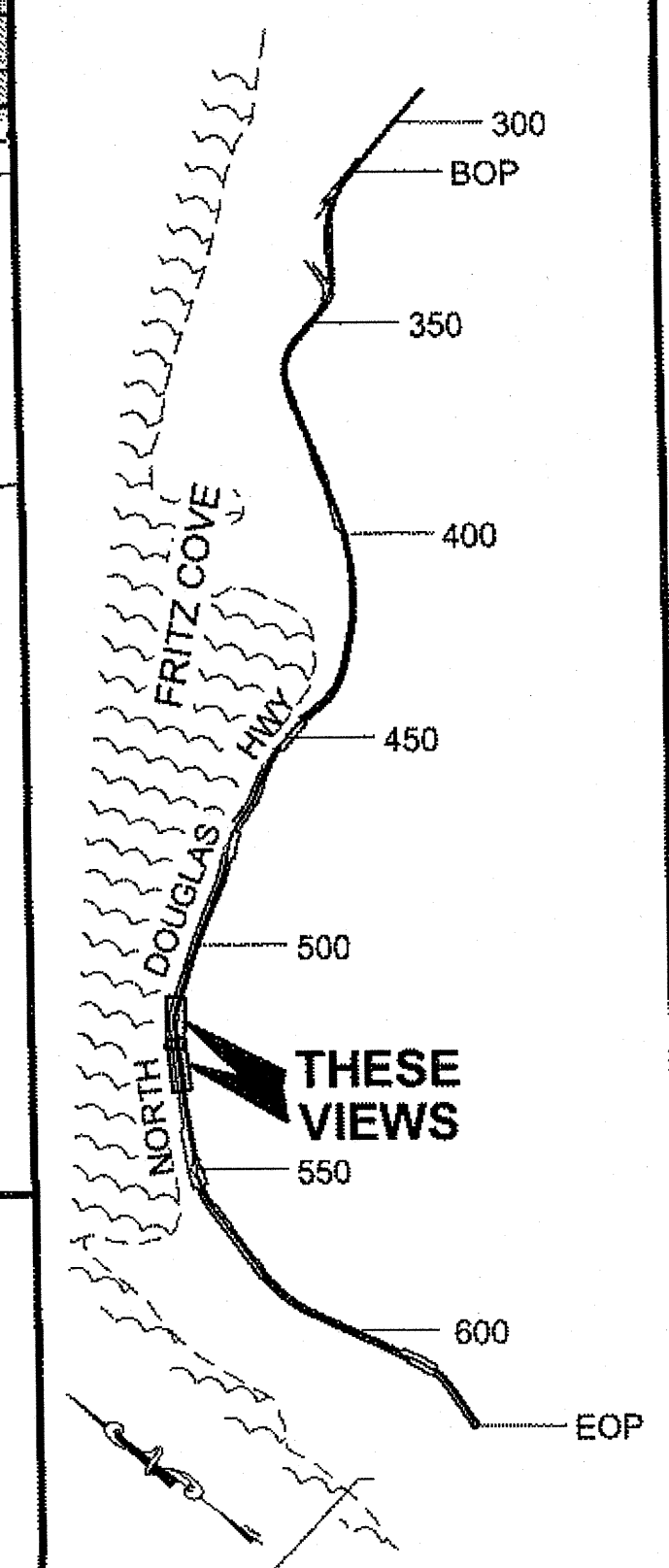
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CENTERLINE CURVE DATA	
R=	1145.92'
Δ=	25°40'40"
L=	513.56'
T=	261.16'



CENTERLINE CURVE DATA	
R=	11459.00'
Δ=	01°09'47"
L=	232.60'
T=	116.30'

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

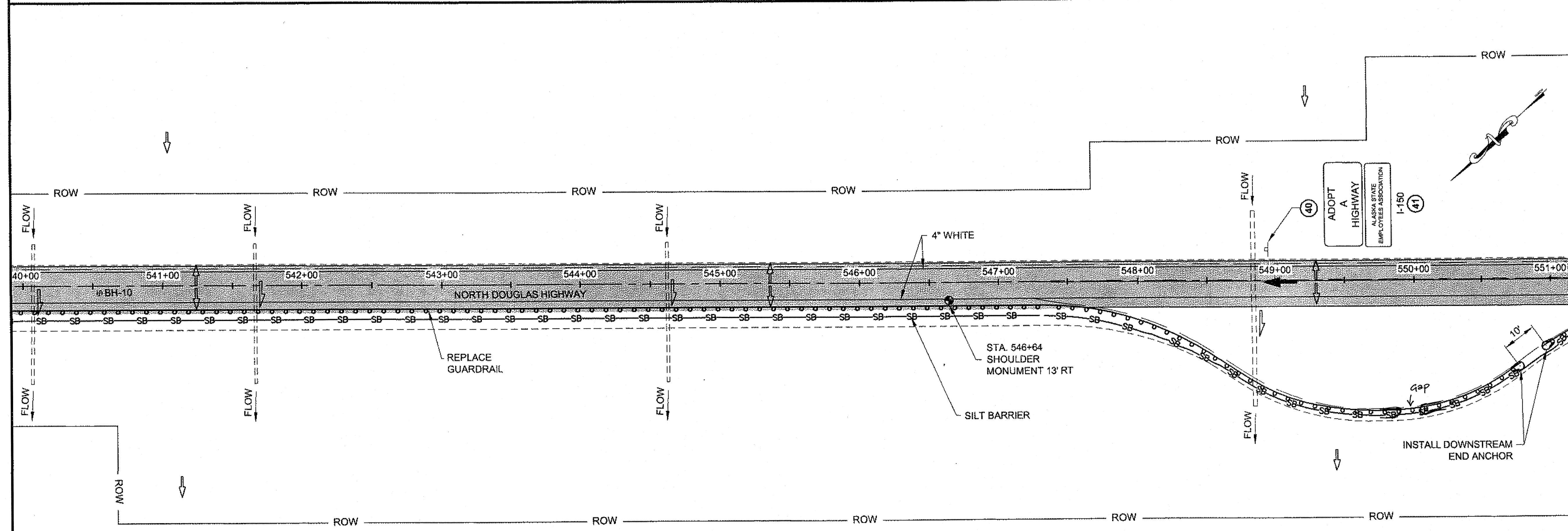
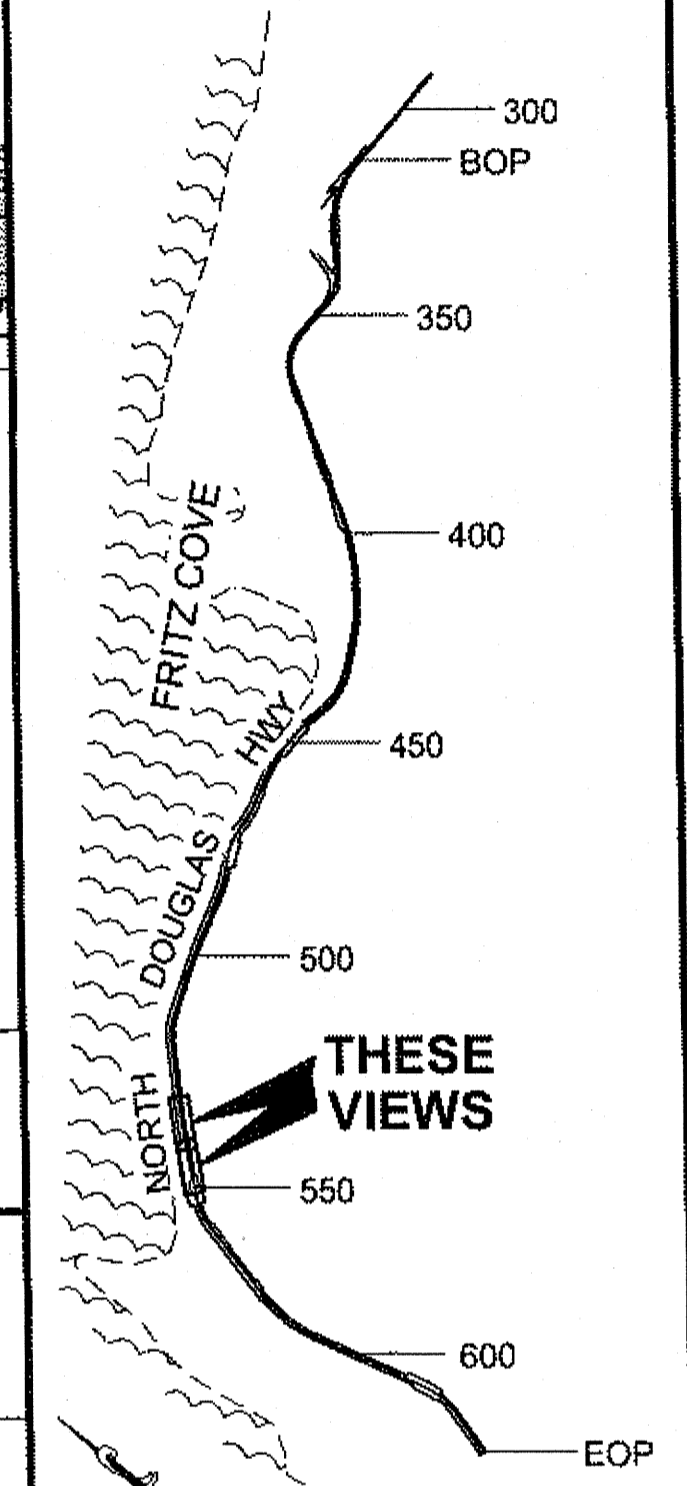
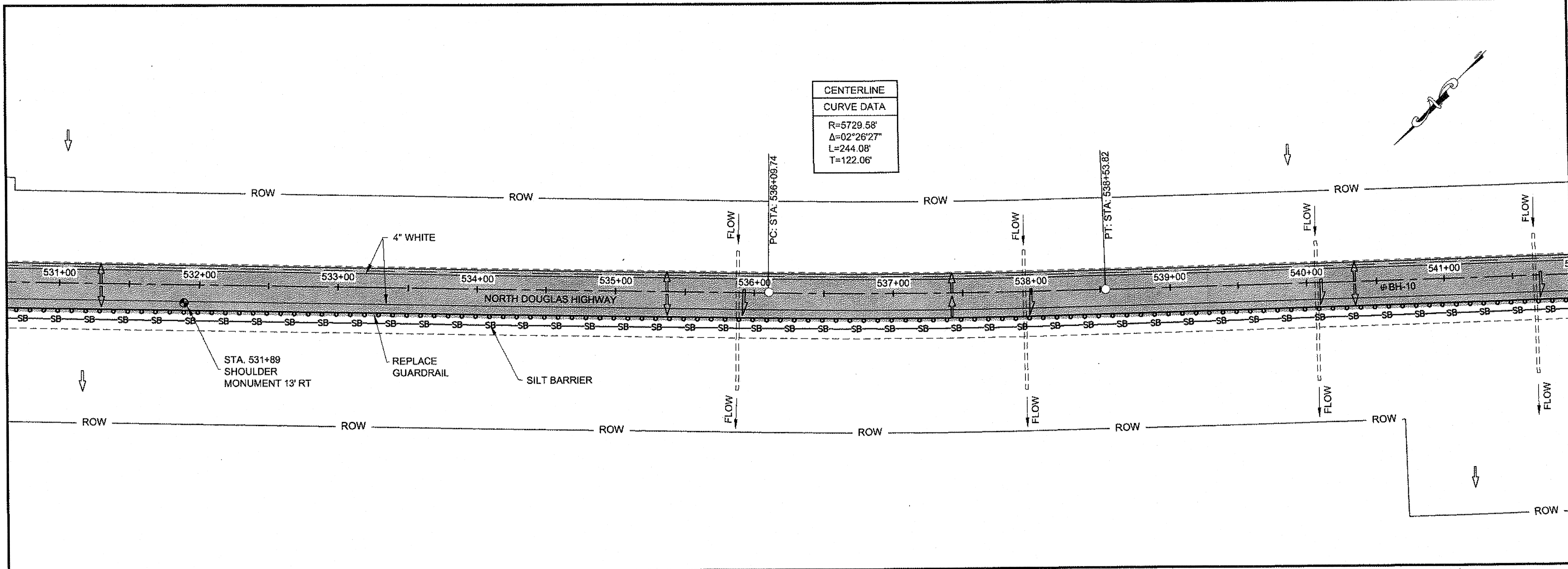
STATE	YEAR
ALASKA	2010

SHEET NUMBER	TOTAL SHEETS
F12	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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 GRANHAM, RICK L (DOT)
 TAB: F13 Thursday, September 30, 2010 9:25:36 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION

CENTERLINE
 CURVE DATA
 R=5729.58'
 Δ=02°26'27"
 L=244.08'
 T=122.06'



CHECKED BY: C. HOWARD

 DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANHAM, D. MULLINER

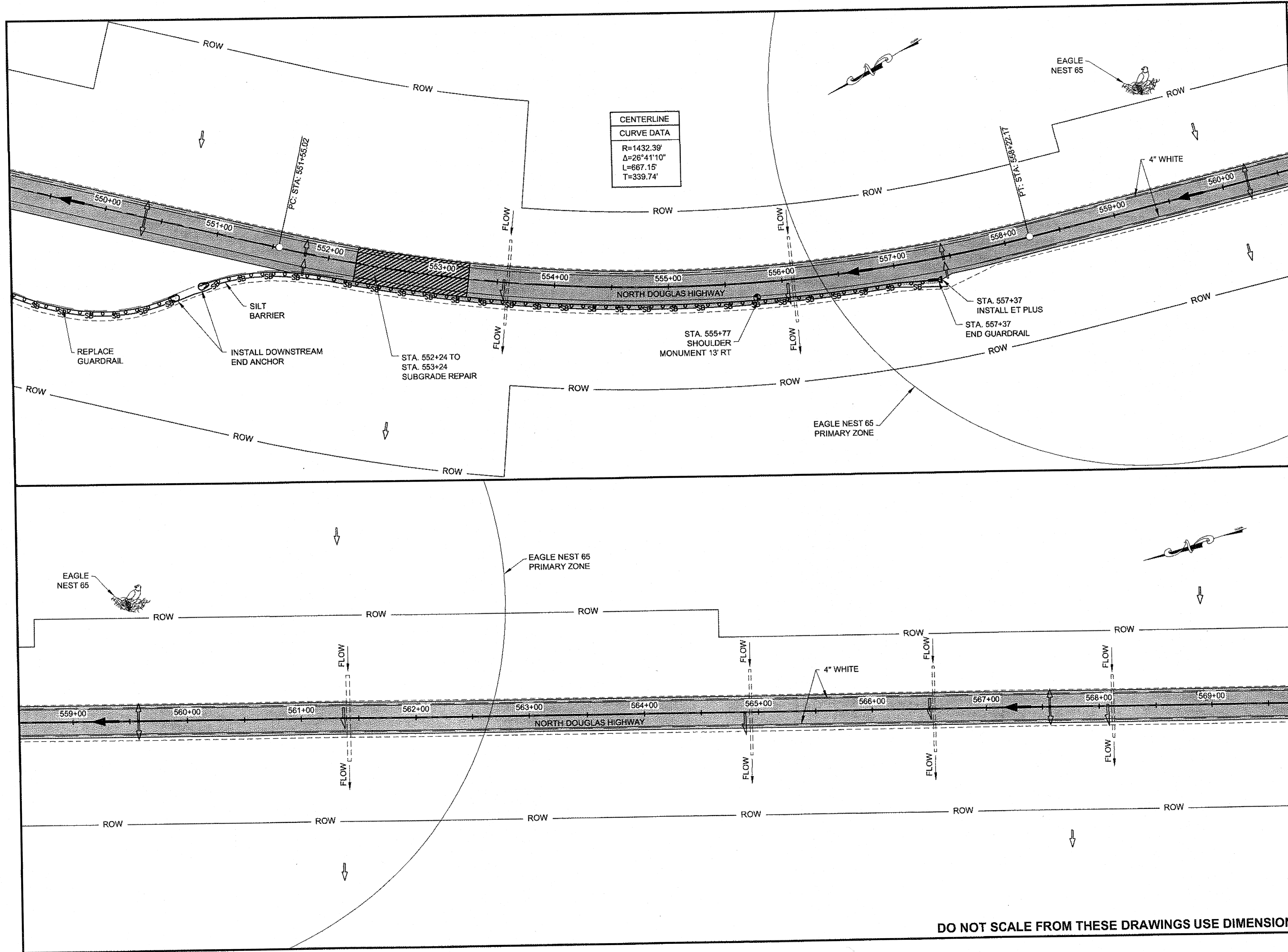
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION
 JNU-N. DOUGLAS HIGHWAY
 PAVEMENT REHABILITATION

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F13	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

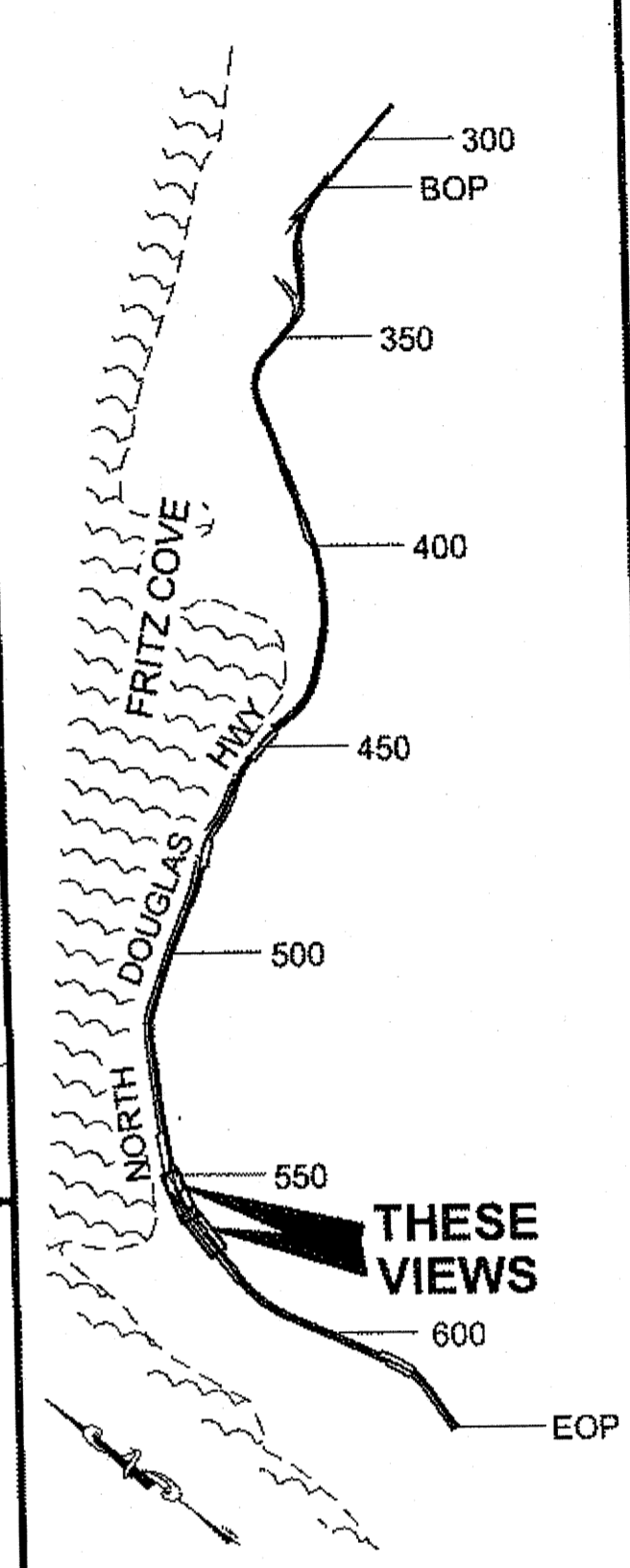


CENTERLINE CURVE DATA	
R=	1432.39'
Δ=	26°41'10"
L=	667.15'
T=	339.74'

PATH:
Q:\JNU\69633\PLANS\SET1\69633_F1-F18.DWG

GRANTHAM, RICK L (DOT)
TAB: F14 Thursday, September 30, 2010 9:25:48 AM

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



7-30-10

STATE OF ALASKA
49th
CHAD HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION

PLAN VIEW

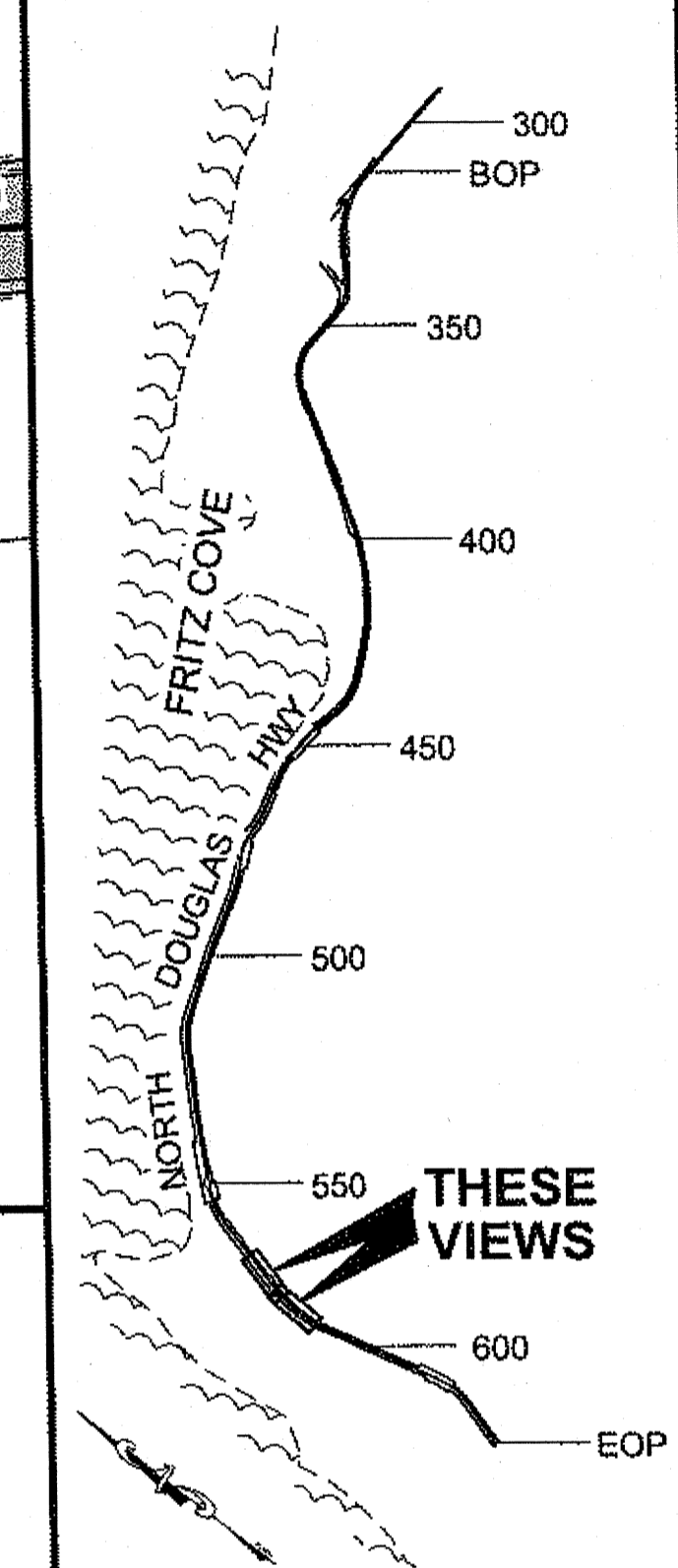
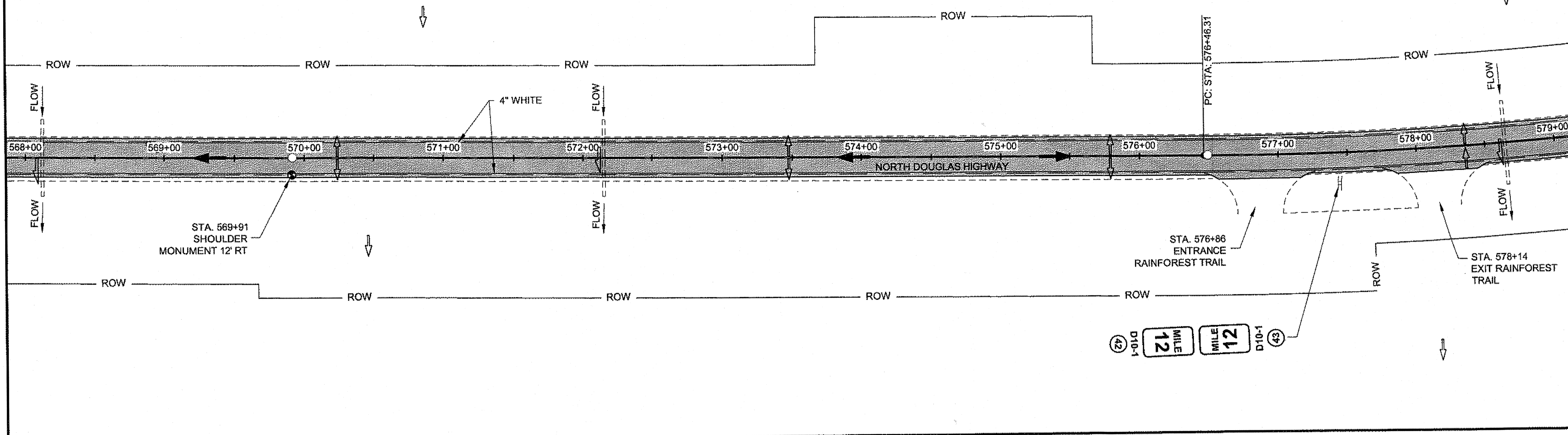
PROJECT DESIGNATION
NH-0959(19)~69633

STATE	YEAR
ALASKA	2010

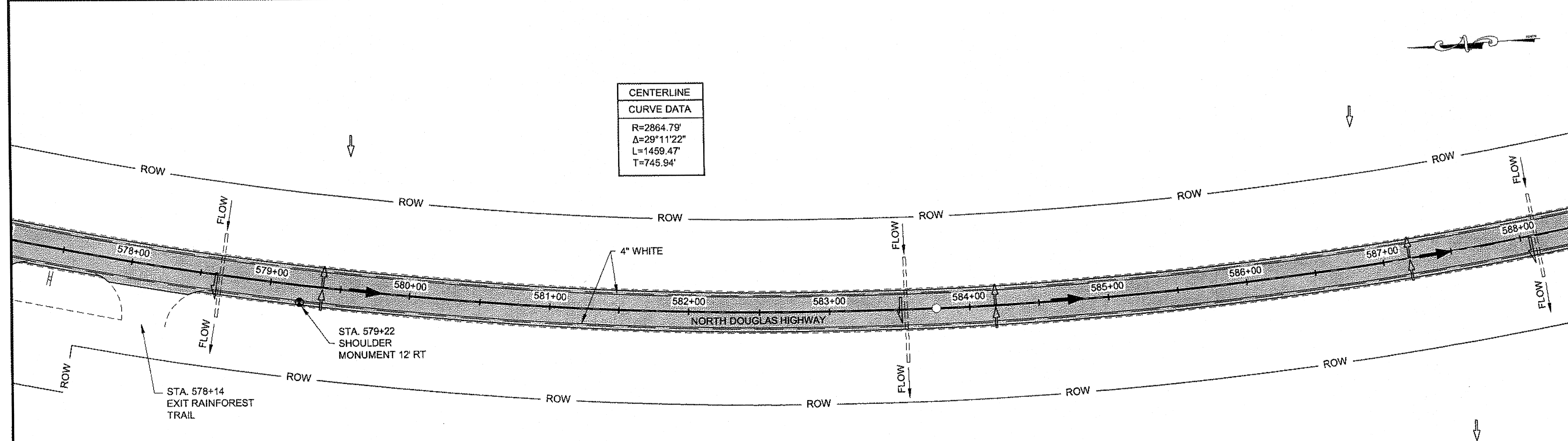
SHEET NUMBER	TOTAL SHEETS
F14	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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 GRANHAM, RICK L (DOT)
 TAB: F15 Thursday, September 30, 2010 9:26:01 AM
 ADDENDUM NUMBER
 ATTACHMENT NUMBER
 RECORD OF REVISIONS
 No. DATE DESCRIPTION



CENTERLINE CURVE DATA	
R=	2864.79'
Δ=	29°11'22"
L=	1459.47'
T=	745.94'



CHECKED BY: C. HOWARD

 DESIGNED BY: D. MULLINER
 DRAWN BY: R. GRANHAM, D. MULLINER

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 SOUTHEAST REGION
 JNU-N. DOUGLAS HIGHWAY
 PAVEMENT REHABILITATION

PLAN VIEW
 PROJECT DESIGNATION
 NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F15	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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GRANTHAM, RICK L (DOT)
TAB: F16 Thursday, September 30, 2010 9:26:14 AM

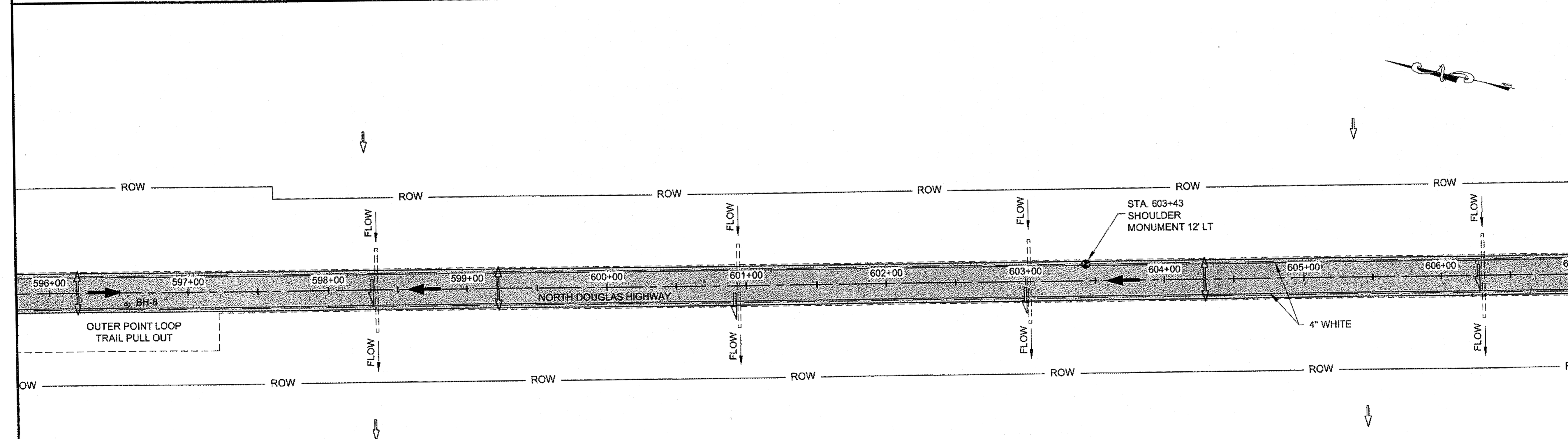
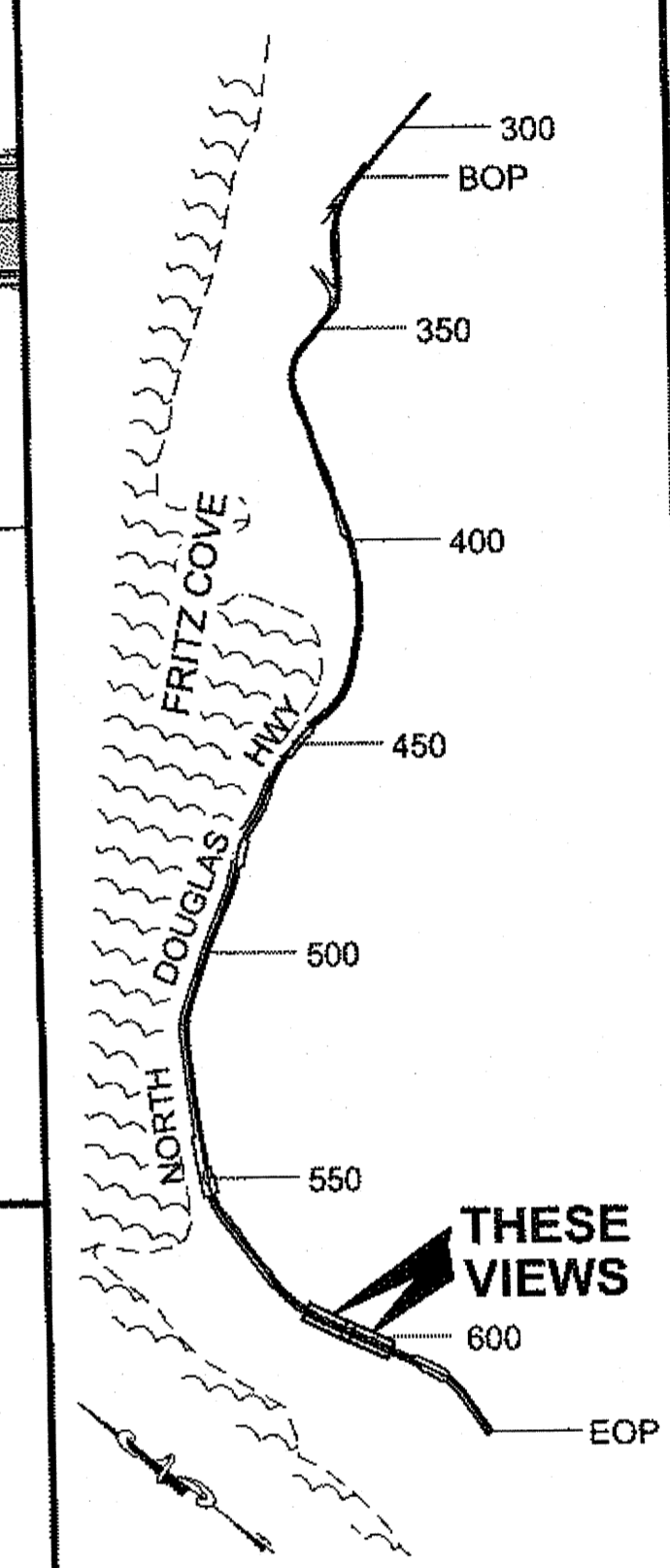
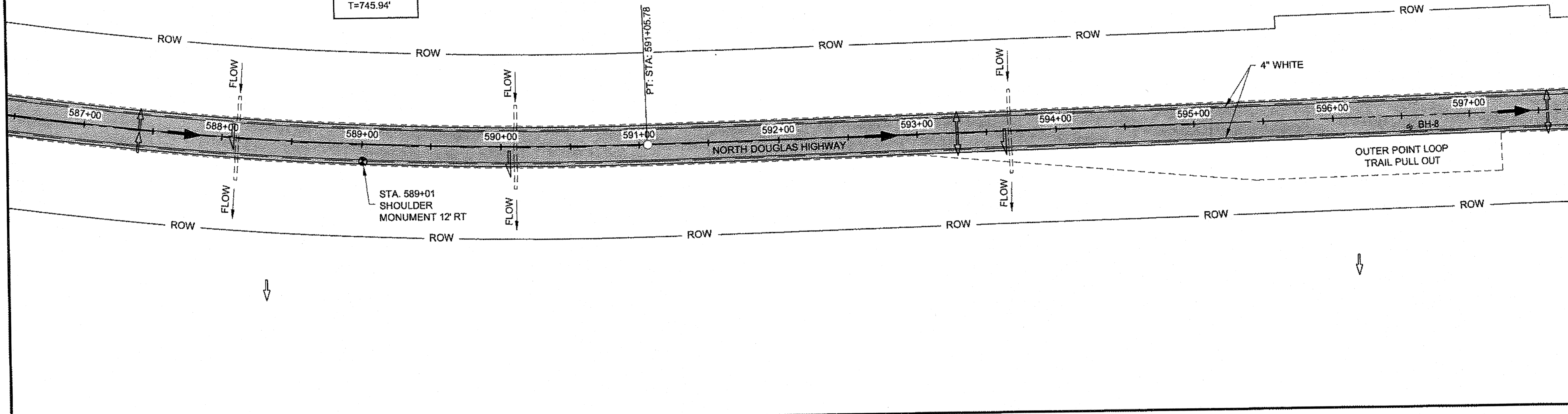
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CENTERLINE CURVE DATA
R=2864.79'
Δ=29°11'22"
L=1459.47'
T=745.94'



CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

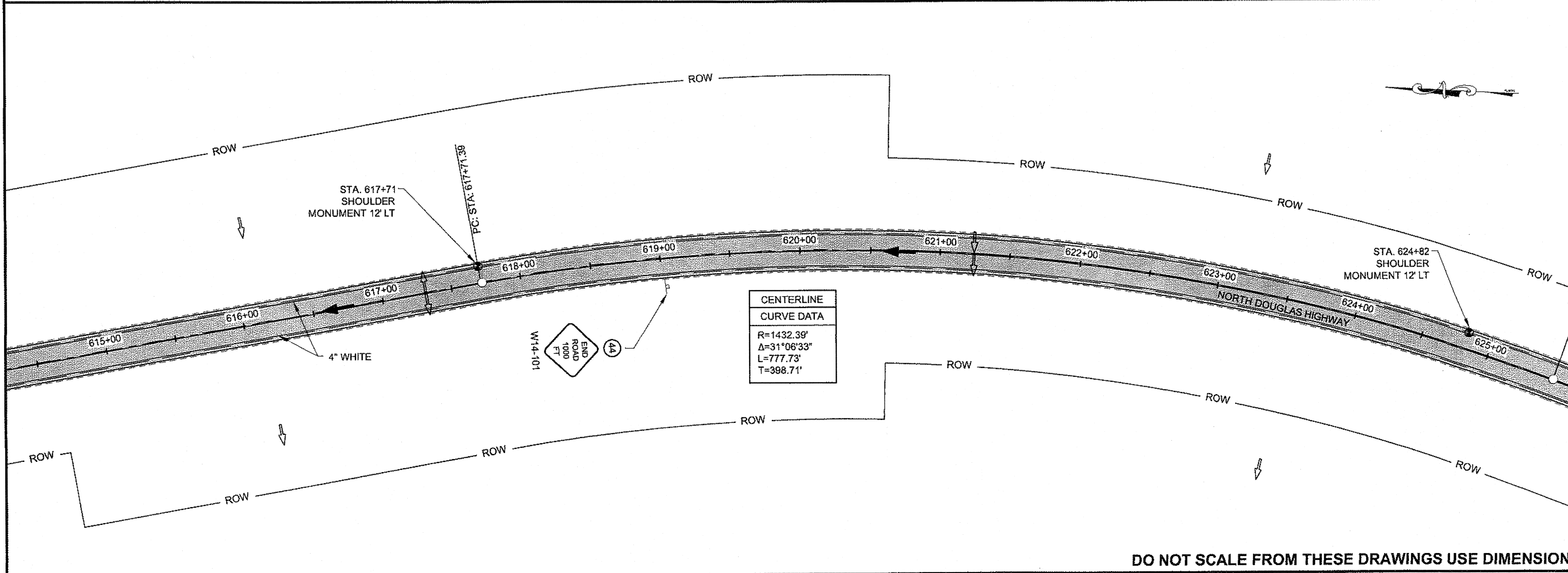
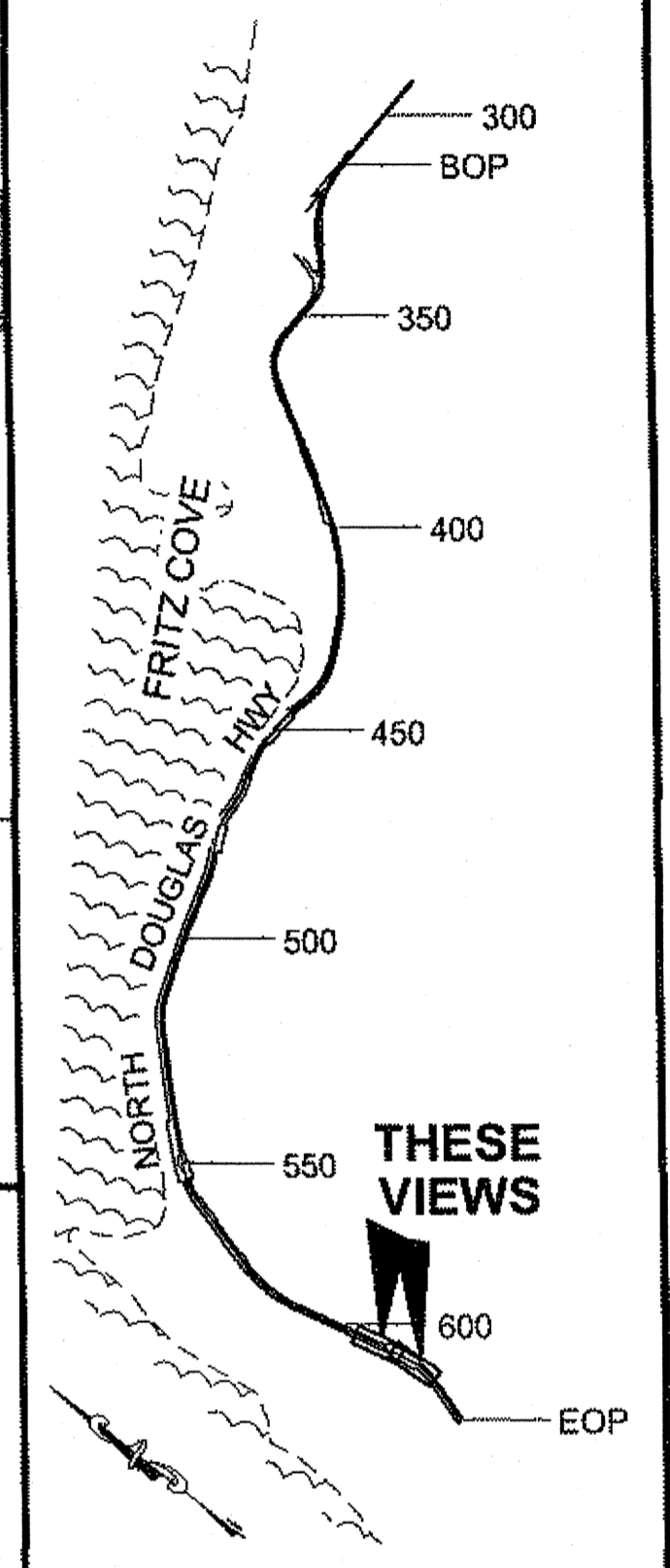
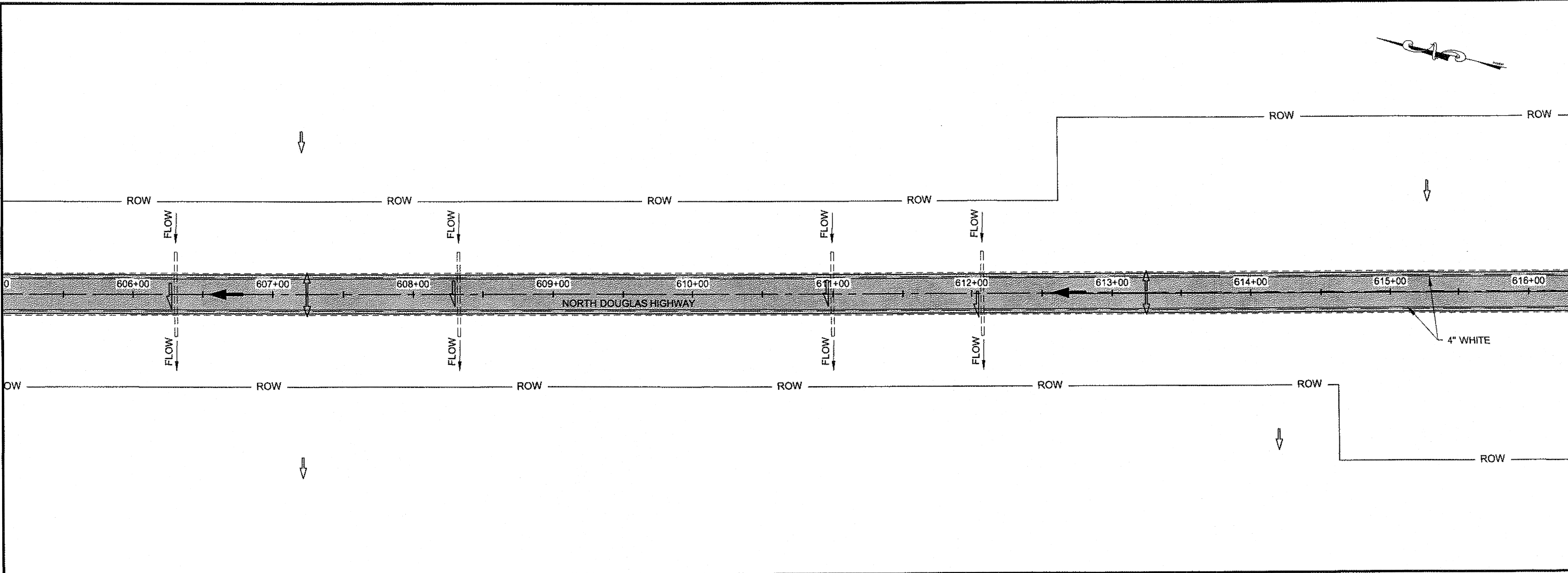
STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F16	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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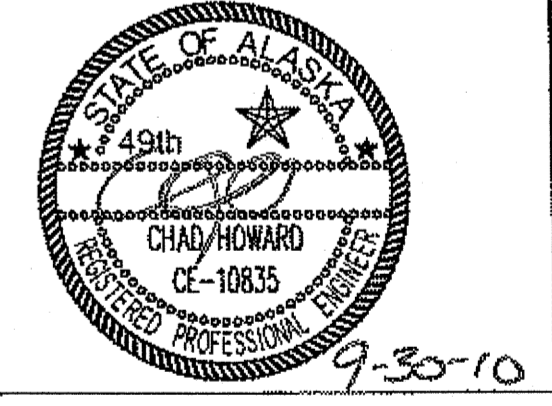
GRANTHAM, RICK L (DOT)
TAB: F17 Thursday, September 30, 2010 9:26:26 AM

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD



DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

PLAN VIEW

PROJECT DESIGNATION
NH-0959(19)-69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F17	32

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
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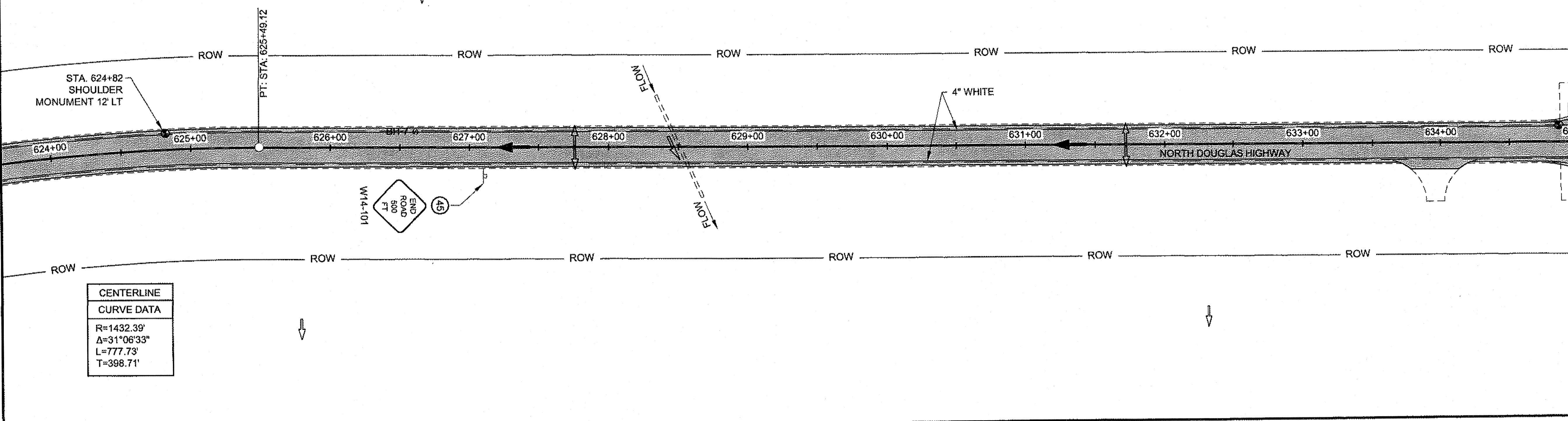
GRANTHAM, RICK L. (DOT)
TAG: F18 Thursday, September 30, 2010 9:28:38 AM

ADDENDUM NUMBER

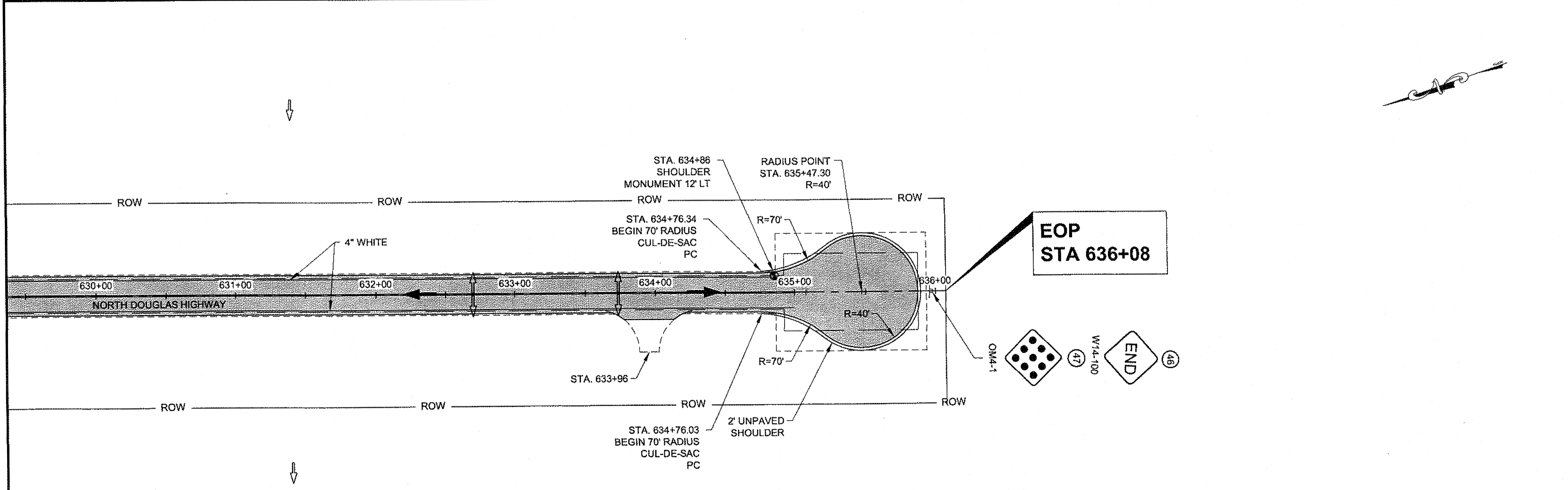
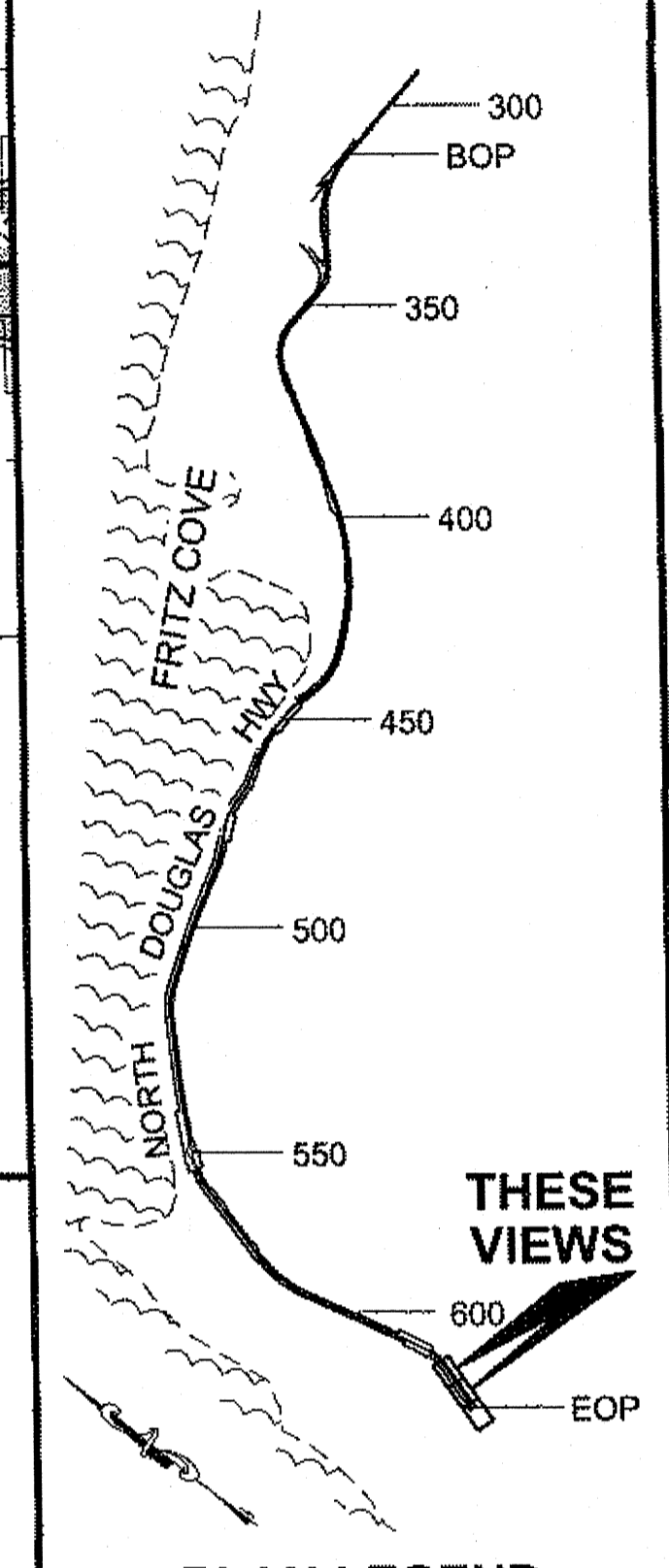
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



CENTERLINE CURVE DATA	
R=	1432.39'
Δ=	31°06'33"
L=	777.73'
T=	398.71'



**EOP
STA 636+08**

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

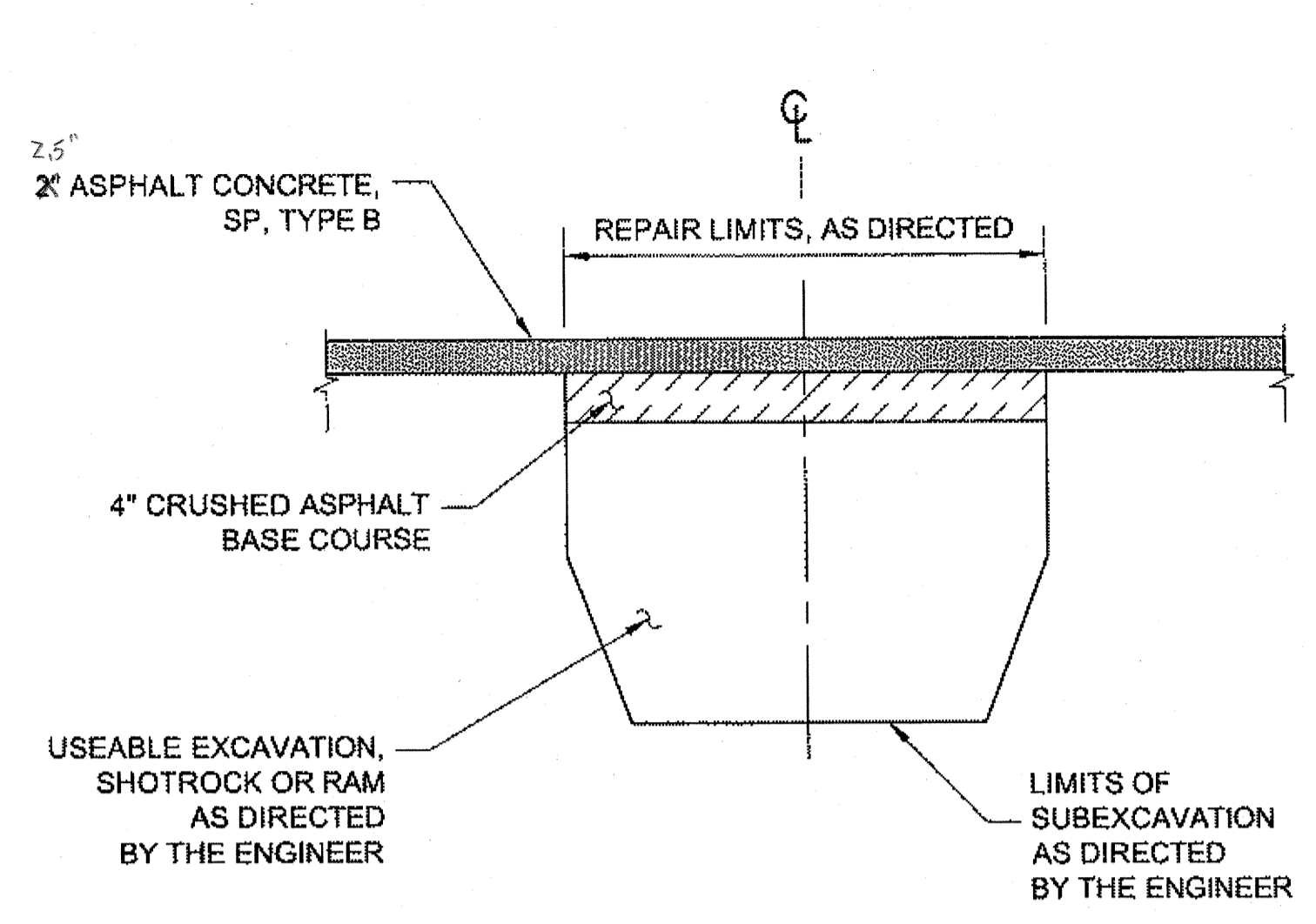
**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

PLAN VIEW

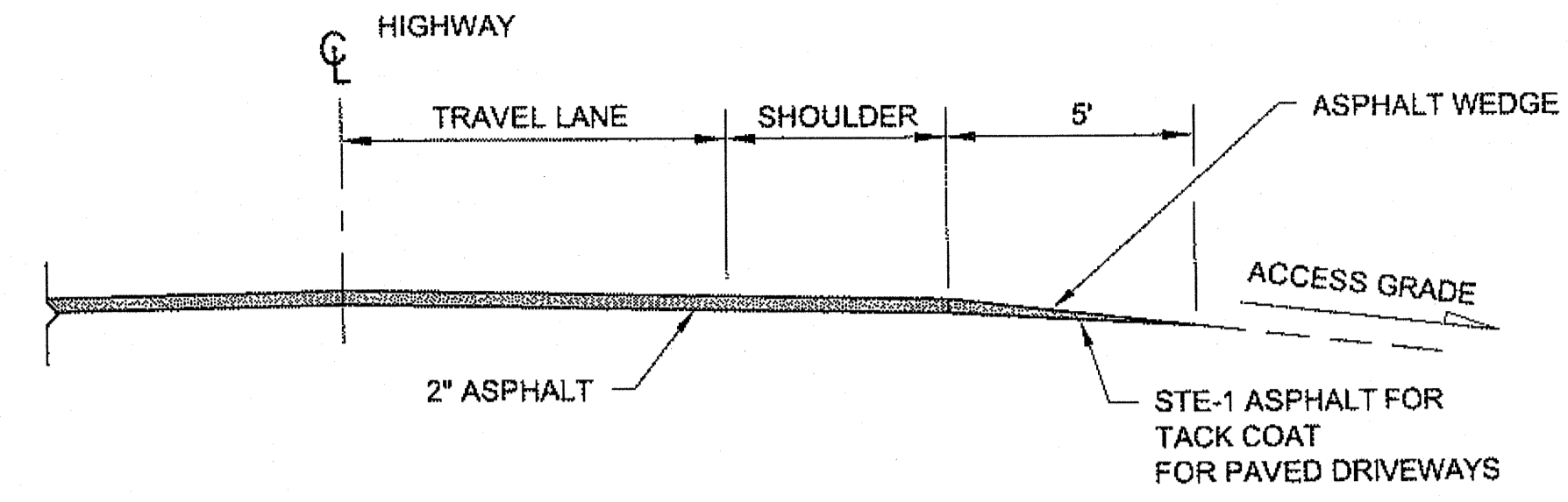
PROJECT DESIGNATION
NH-0959(19)~69633

STATE	YEAR
ALASKA	2010
SHEET NUMBER	TOTAL SHEETS
F18	32

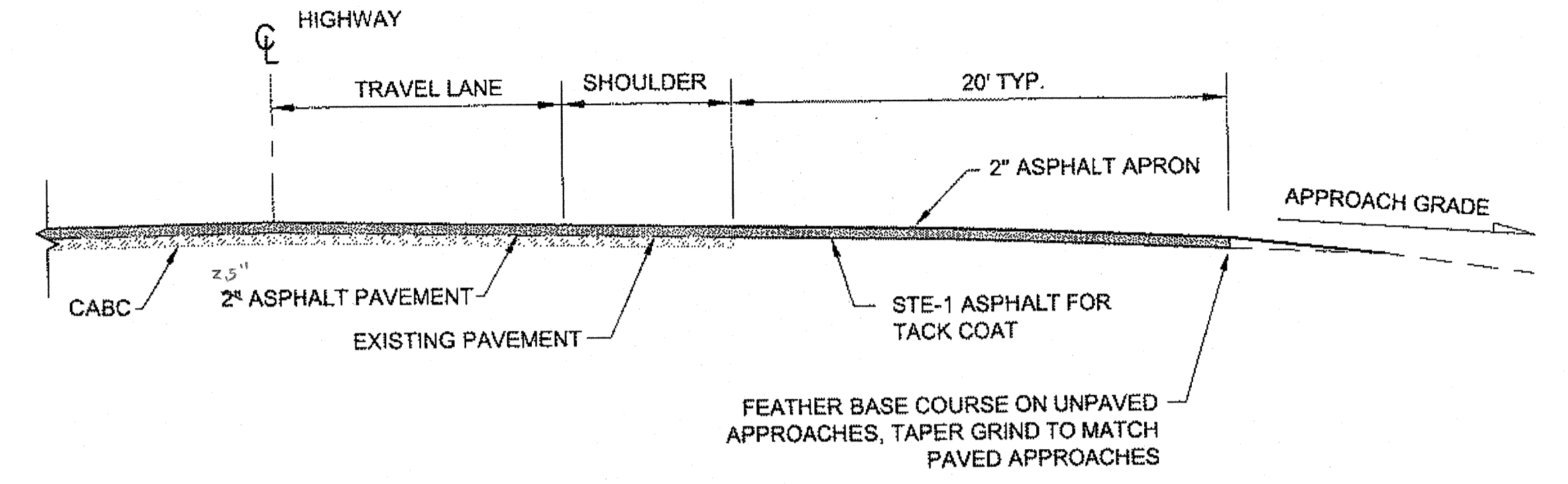
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



SUBGRADE REPAIR DETAIL
NTS

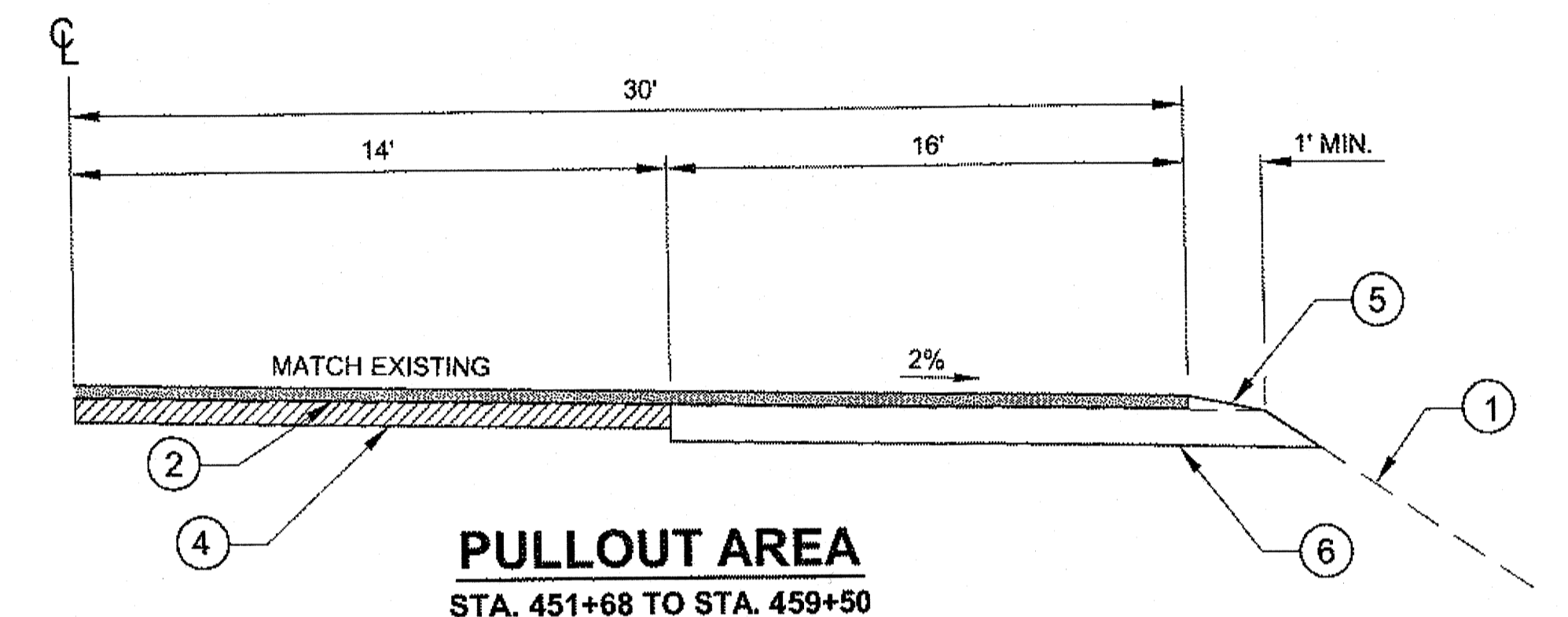


TYPICAL DRIVEWAY PROFILE
NTS

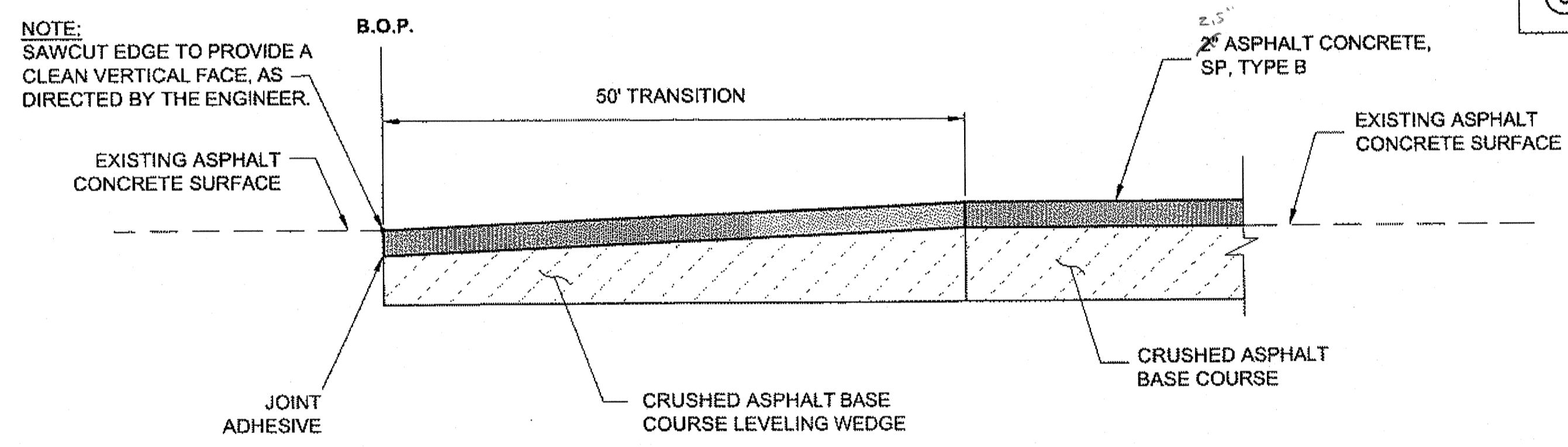


TYPICAL STREET APPROACH PROFILE
NTS

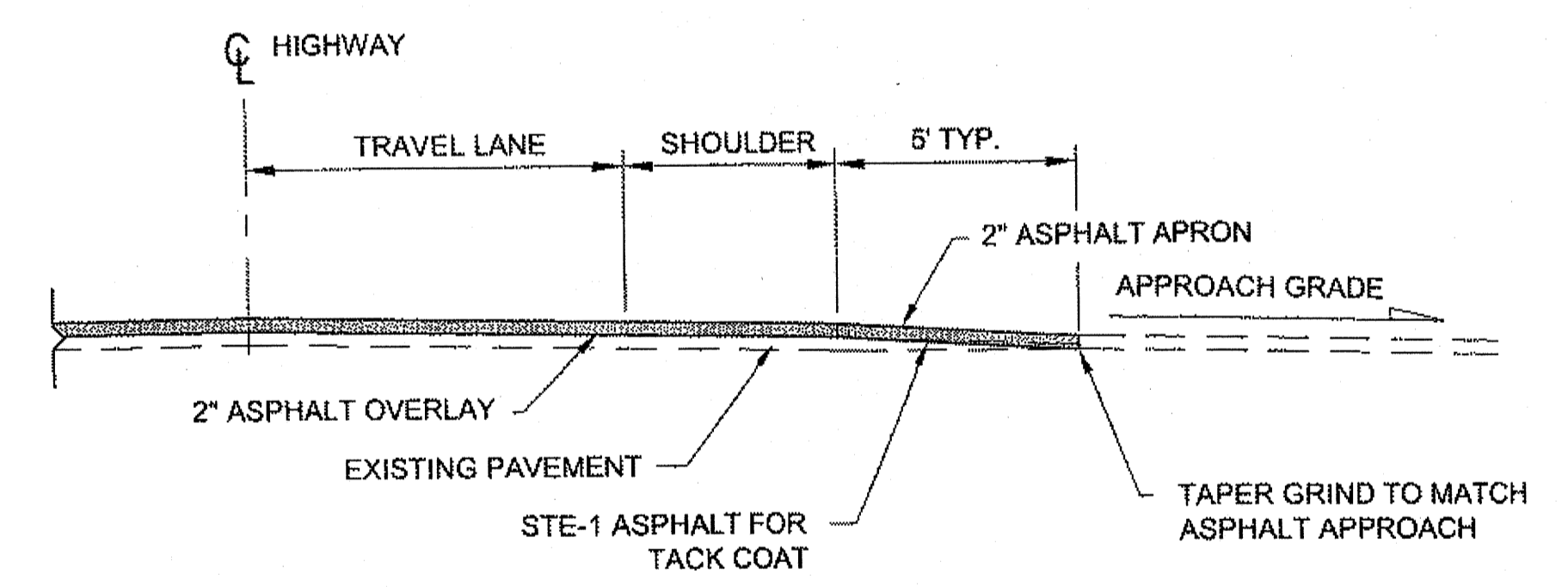
- LEGEND**
- ① EXISTING GROUND (VARIES)
 - ② 2" ASPHALT CONCRETE, SP, TYPE B
 - ③ 6" CRUSHED ASPHALT BASE COURSE
 - ④ 4" CRUSHED ASPHALT BASE COURSE
 - ⑤ LINEAR GRADING
 - ⑥ 6" AGGREGATE FOR CRUSHED ASPHALT BASE COURSE



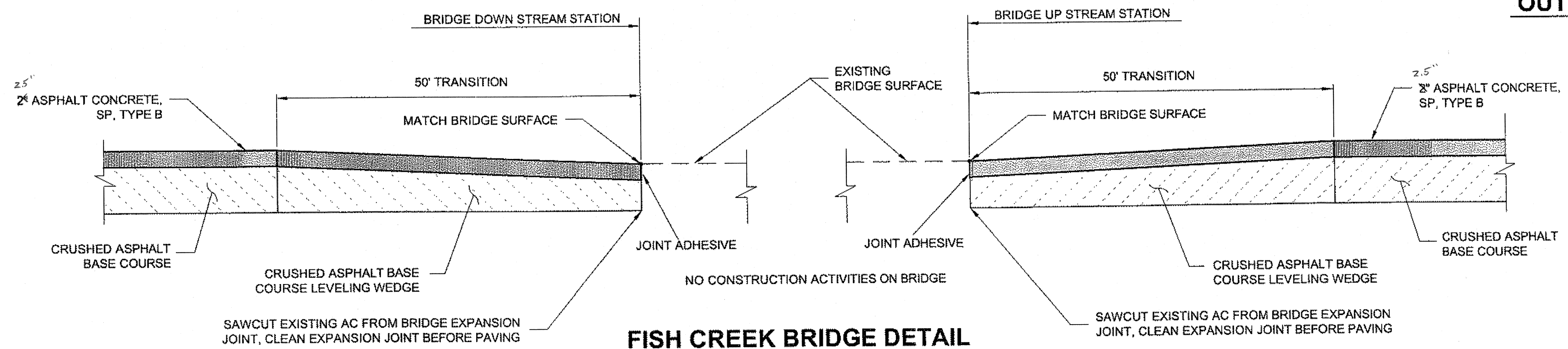
PULLOUT AREA
STA. 451+68 TO STA. 459+50



PAVEMENT TRANSITION DETAIL
B.O.P. STA. 314+20



OUTER POINT PARKING PROFILE
NTS



FISH CREEK BRIDGE DETAIL
STA. 385+94 TO 387+37

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

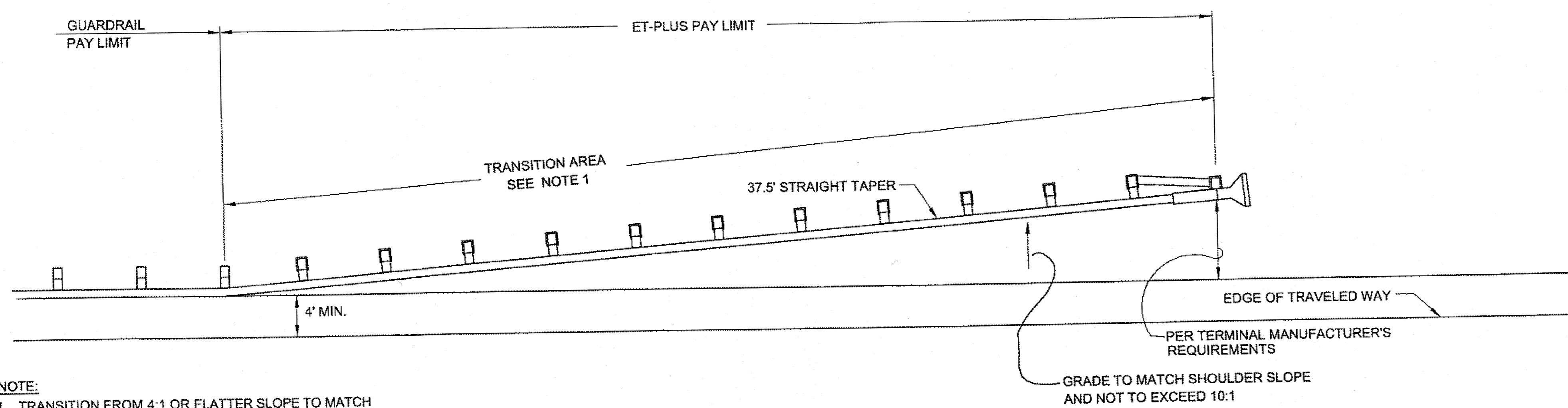
JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION

MISC DETAILS

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

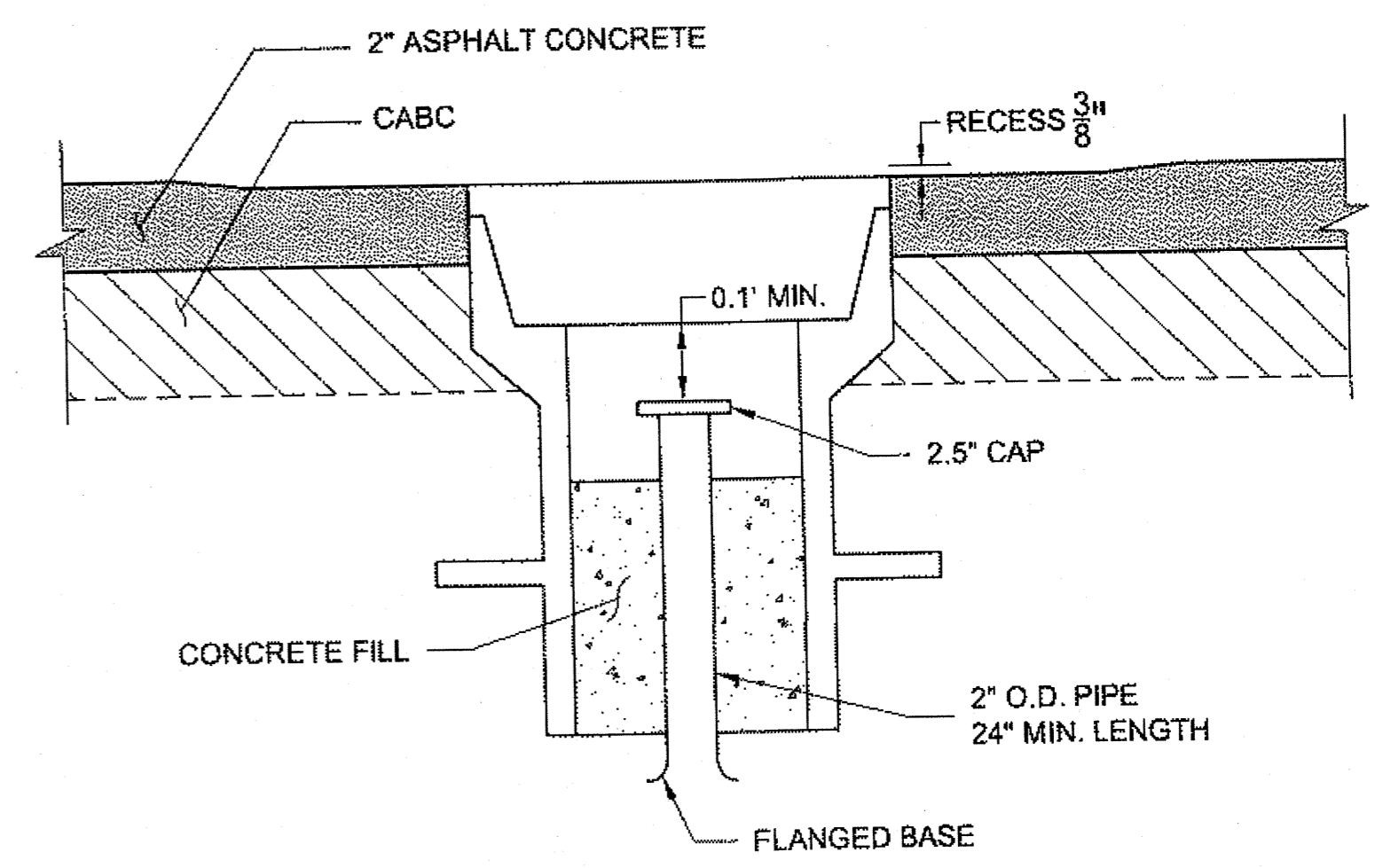
P.A.T.H.: Q:\JNU\69633\PLANSET\69633_J1-J4_DETAILS.DWG
TAB: J1 Thursday, September 30, 2010 8:20:11 AM GRANTHAM, RICK L. (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0959(19)-69633	2010	J1	32



NOTE:
 1. TRANSITION FROM 4:1 OR FLATTER SLOPE TO MATCH TYPICAL SLOPE AT THE BEGINNING OF GUARDRAIL PAY LIMIT.

ET-PLUS INSTALLATION
 NTS

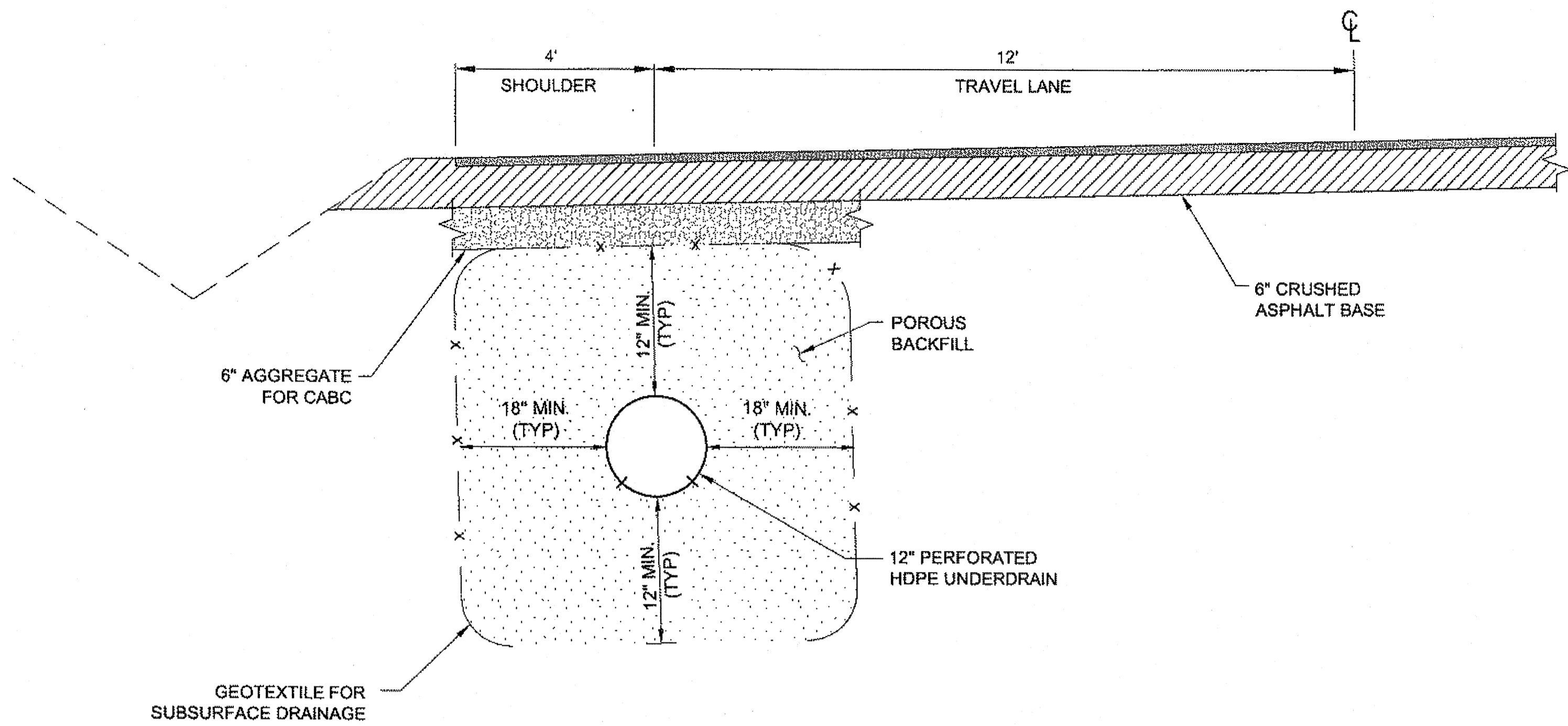


MONUMENT DETAIL

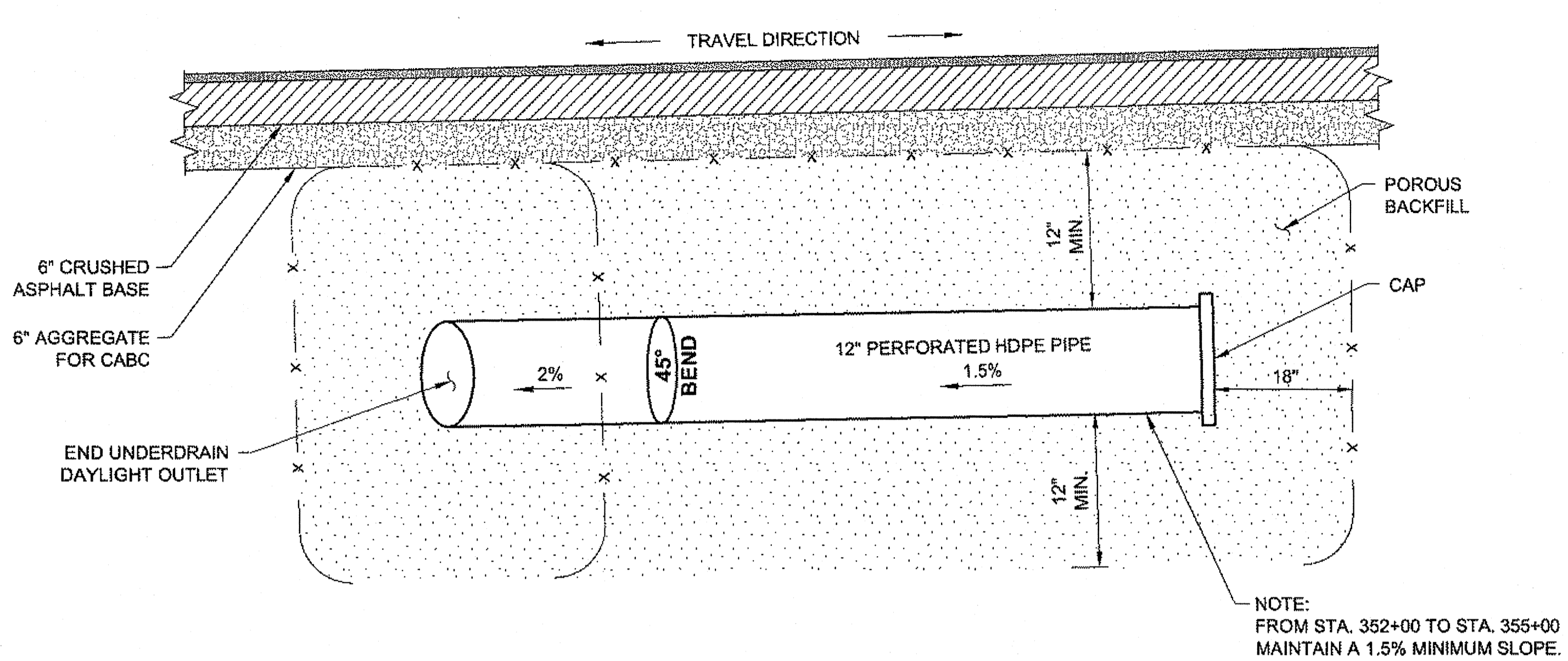
NOTE: THIS DETAIL TO BE USED FOR EXISTING AND PROPOSED SHOULDER MONUMENTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

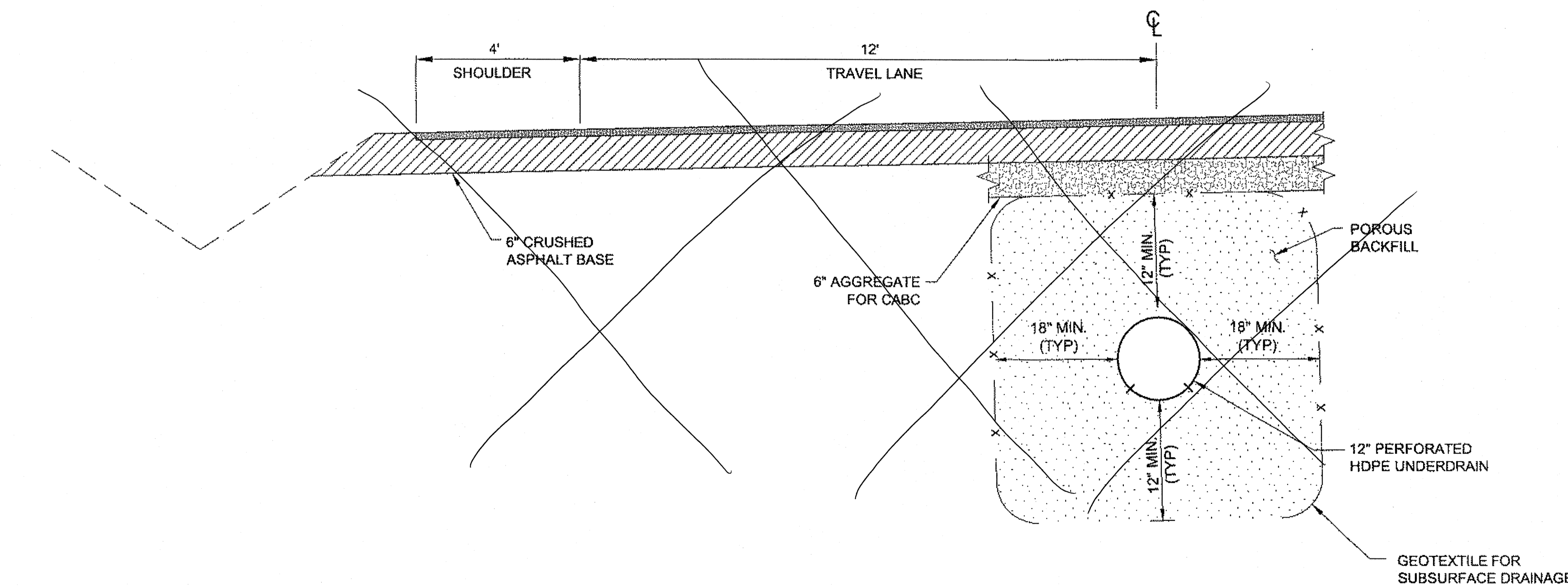
CHECKED BY: C. HOWARD 		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION		
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM, D. MULLINER		MISC DETAILS		
P.A.T.H.: Q:\JNU\69633\PLANSET\69633_J1-J4_DETAILS.DWG TAB: J2 Thursday, September 30, 2010 8:20:36 AM GRANTHAM, RICK L (DOT)		PROJECT DESIGNATION NH-0959(19)-69633	YEAR 2010	
NO.	DATE	DESCRIPTION	SHEET NO.	TOTAL SHEETS
			J2	32



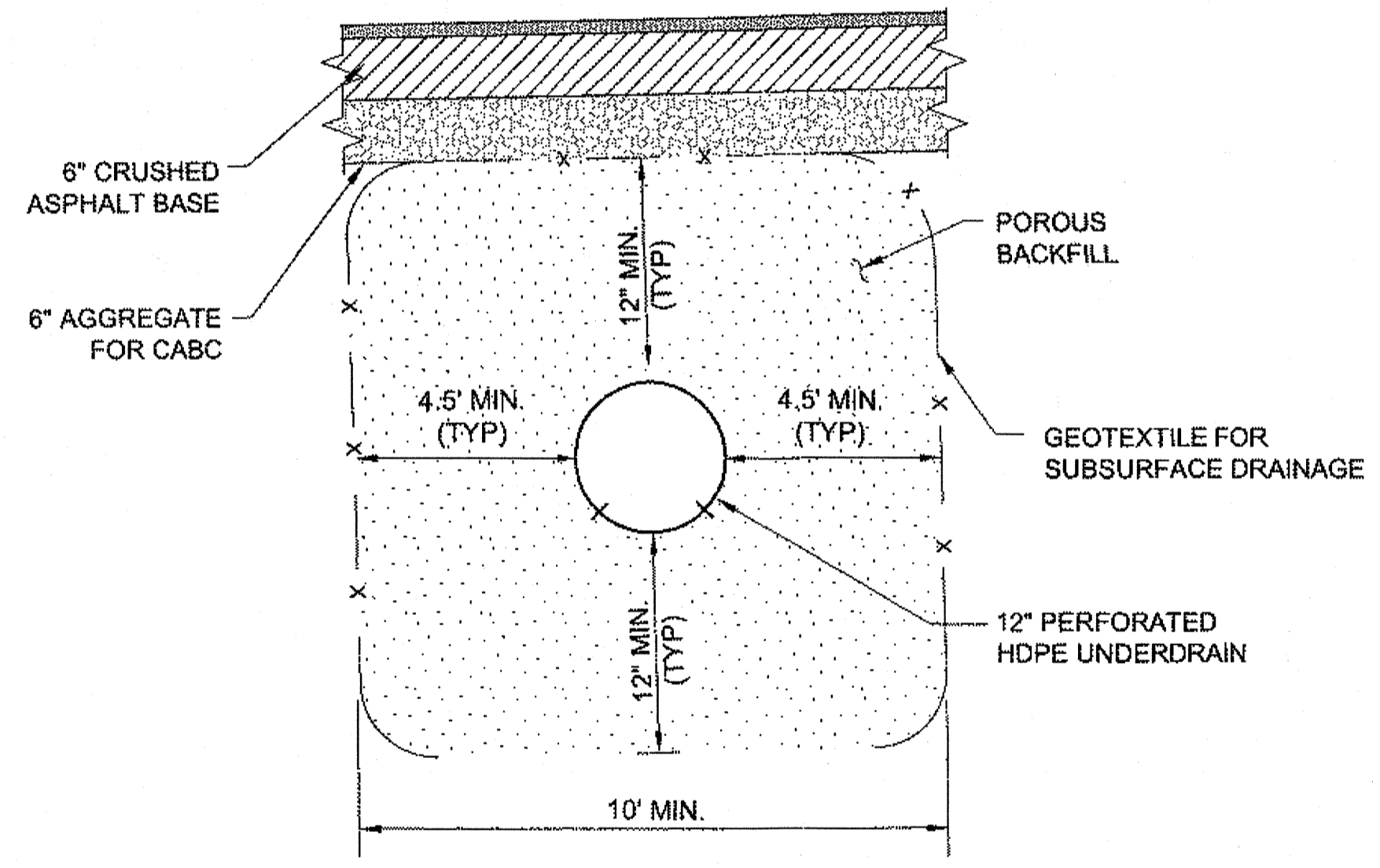
F3
J3-2 **TYPICAL UNDERDRAIN DETAIL**
STA. 351+58 TO STA. 355+00



TYPICAL UNDERDRAIN PROFILE VIEW
NTS

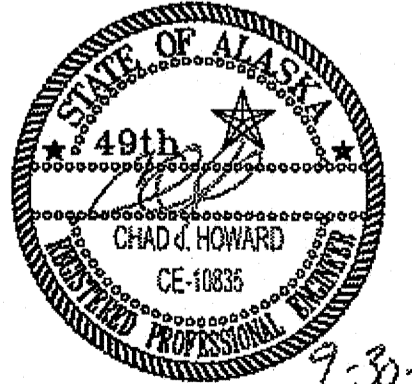


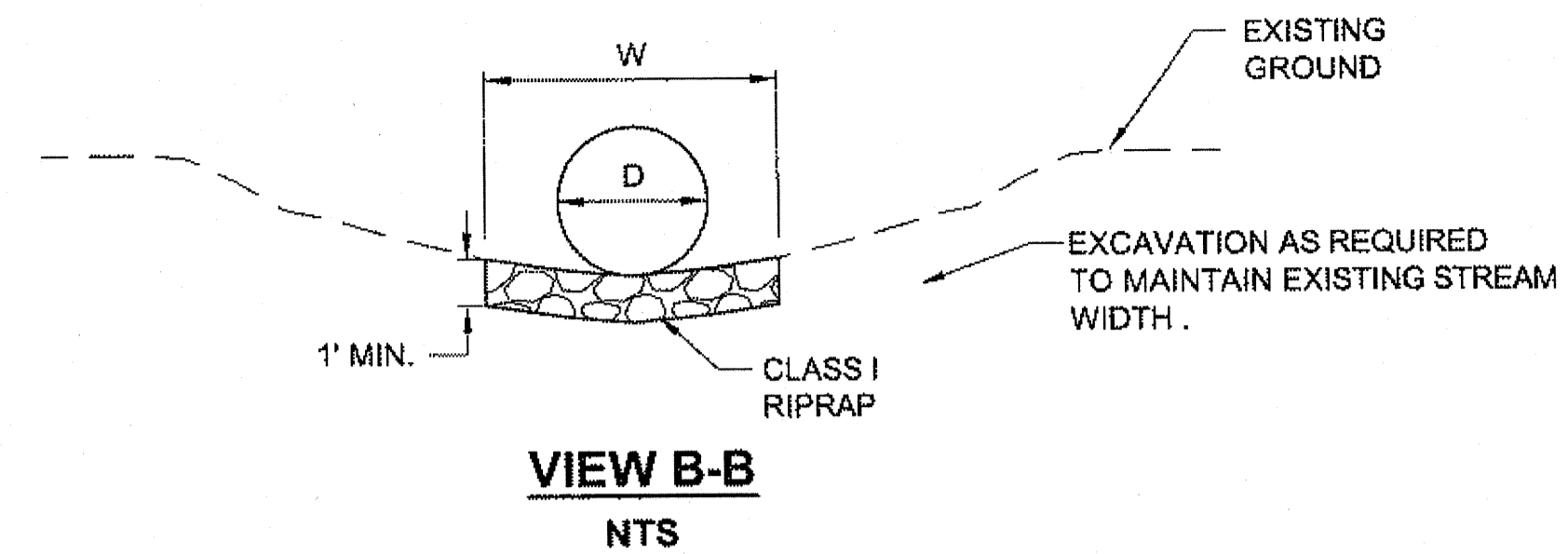
~~**F3**
J3-1 **TYPICAL UNDERDRAIN DETAIL**
STA. 330+59 TO STA. 331+74~~



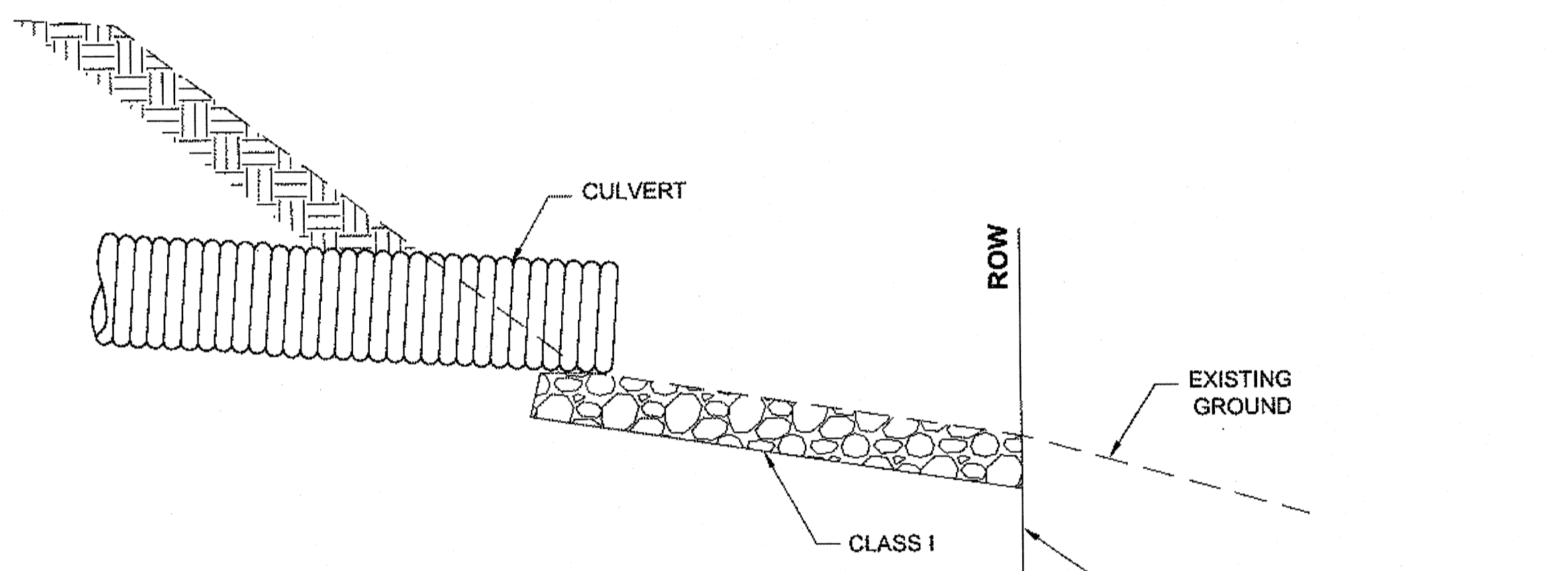
F3
J3-3 **TYPICAL UNDERDRAIN DETAIL**
STA. 335+75 TO STA. 337+55

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD  CHAD G. HOWARD CE-10835 9-30-10		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION												
DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM, D. MULLINER		UNDERDRAIN DETAILS												
PATH: Q:\JNU\69633\PLANSET\69633_J1-J4_DETAILS.DWG TAB: J3 Thursday, September 30, 2010 8:20:44 AM GRANTHAM, RICK L. (DOT)														
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION NH-0959(19)-69633	YEAR 2010	SHEET NO. J3	TOTAL SHEETS 32
REVISIONS														
NO.	DATE	DESCRIPTION												

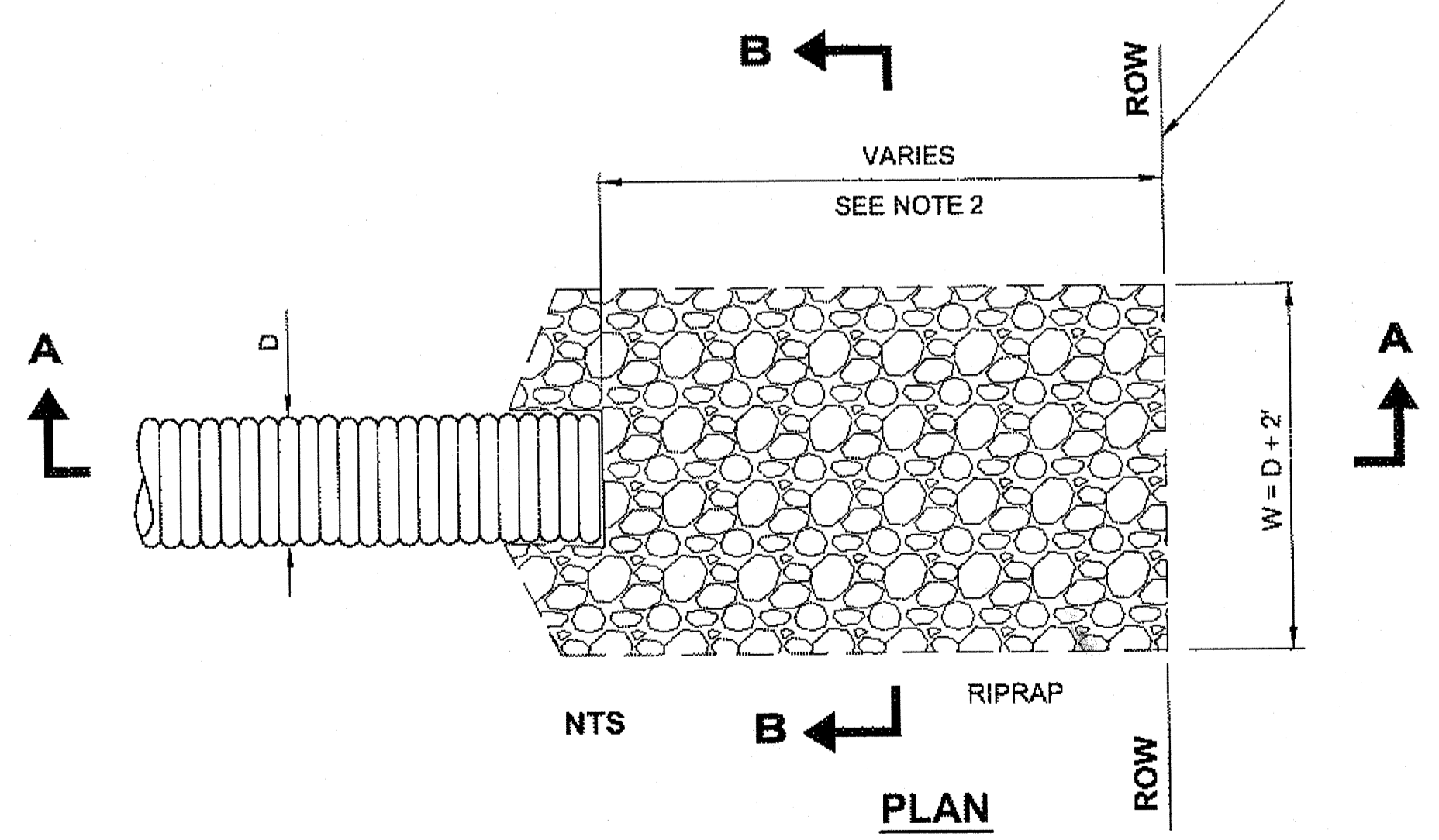


- NOTES:**
1. FOR CULVERT LOCATIONS AND REPLACEMENT SEE SHEET C-2.
 2. CONSTRUCT 5' OR TO ROW, WHICH EVER IS LESS.



SECTION A-A
NTS

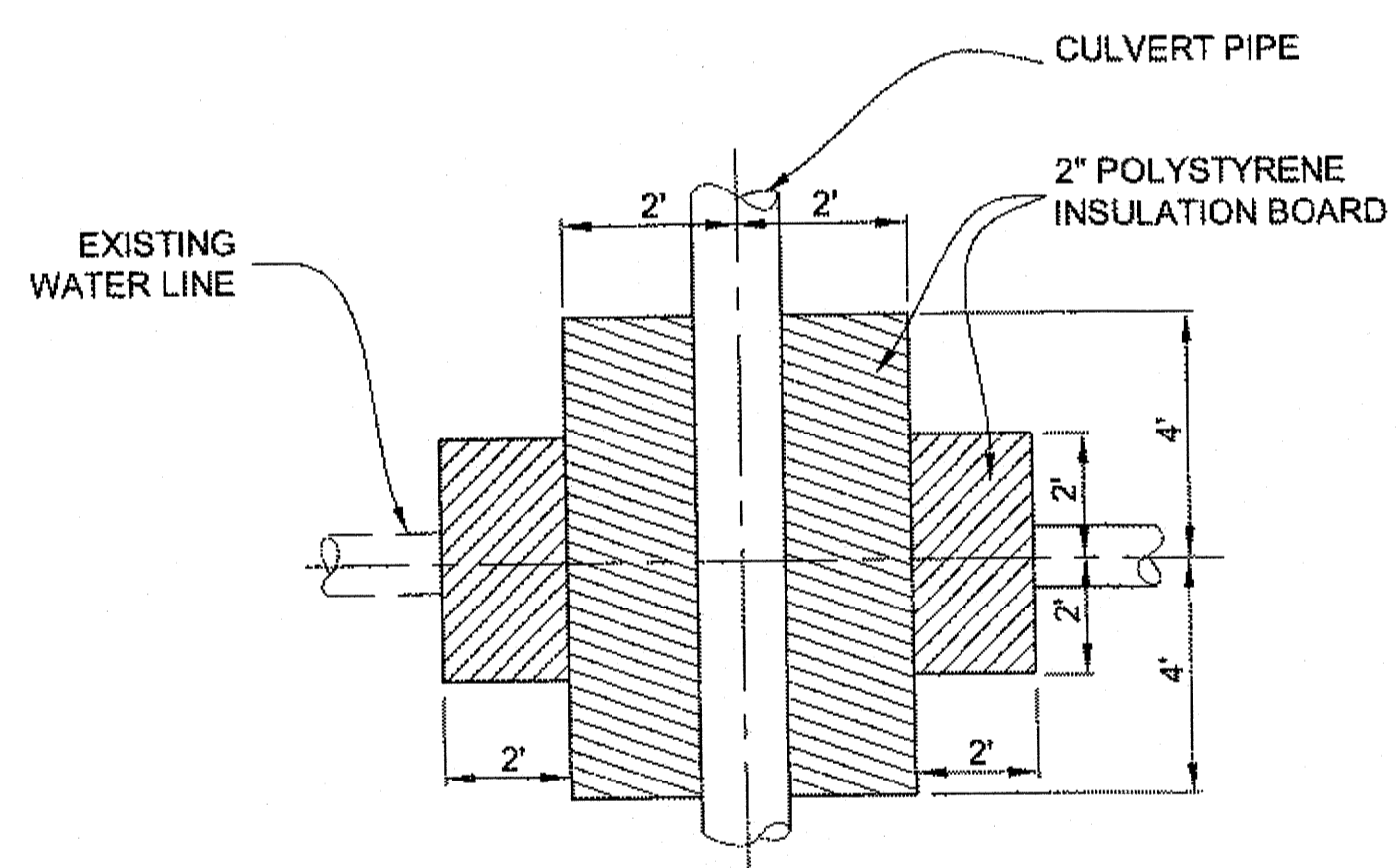
ALL WORK & EQUIPMENT NOT TO EXCEED R.O.W.



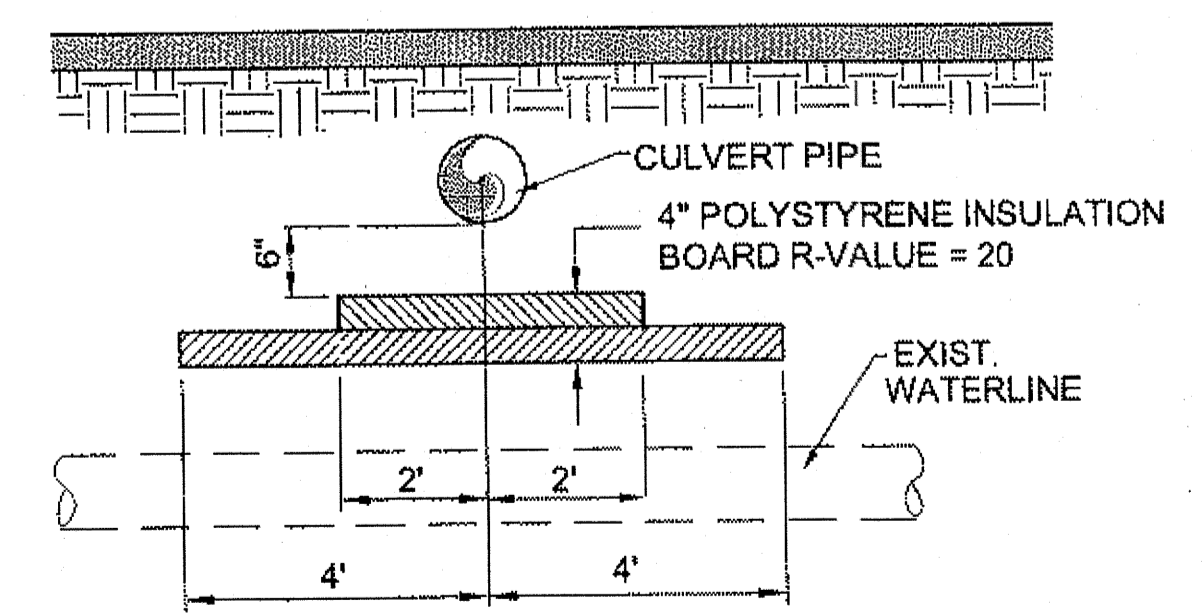
NTS

PLAN
NTS

RIPRAP LINED OUTLET APRON DETAIL
NTS

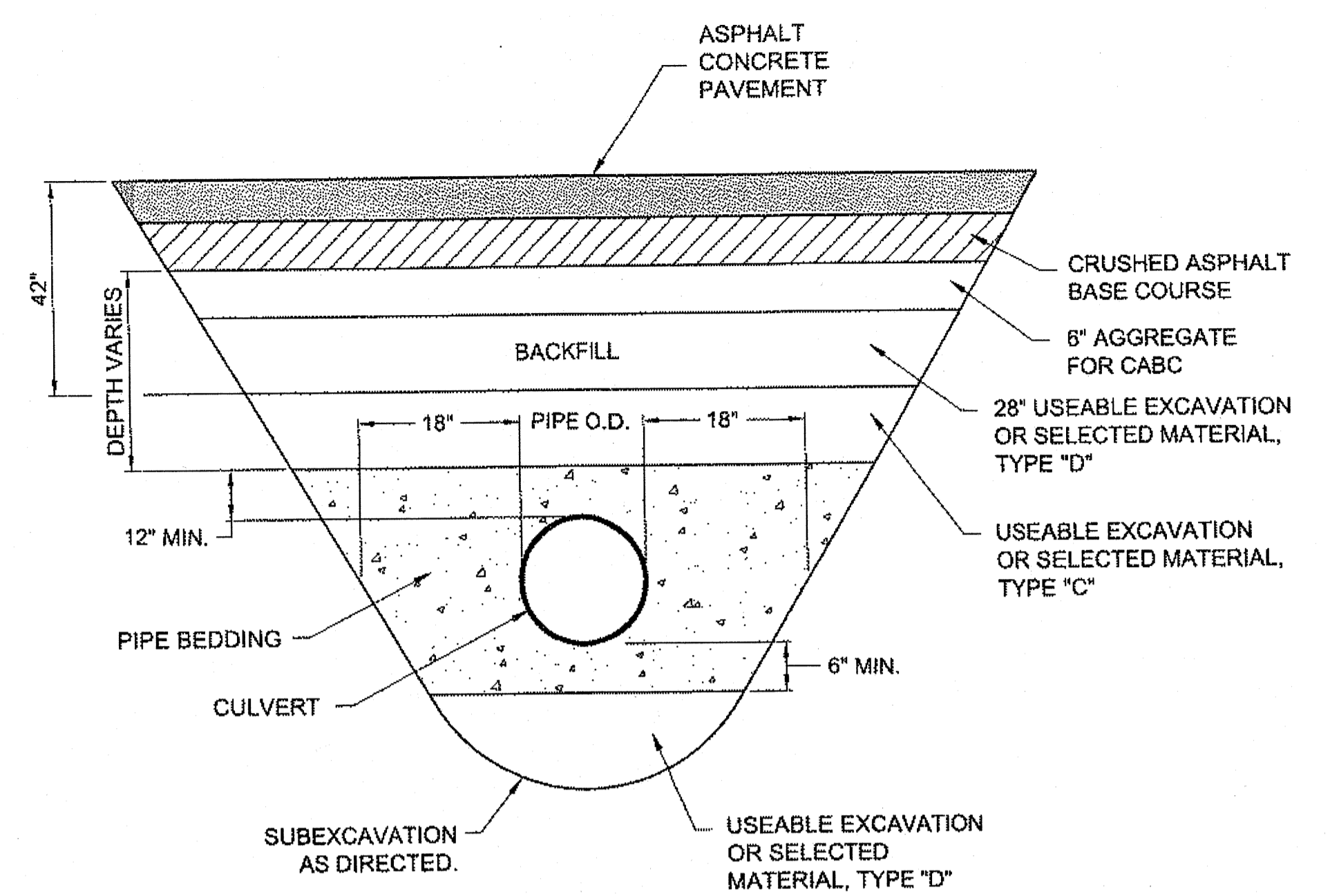


PLAN



SECTION

RIGID INSULATION
NTS



TYPICAL CULVERT BEDDING/BACKFILL SECTION
NTS

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. NEW PIPE LENGTH SHALL MATCH EXISTING PIPE LENGTH.

RIGID INSULATION NOTES:

1. INSTALL INSULATION AS SHOWN WHEN EXISTING WATERLINE IS EXPOSED.
2. WRAP AROUND INSULATION WITH R-VALUE EQUAL TO 20 MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
3. MAINTAIN MINIMUM 18" VERTICAL SEPARATION BETWEEN CULVERT AND WATERLINE.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

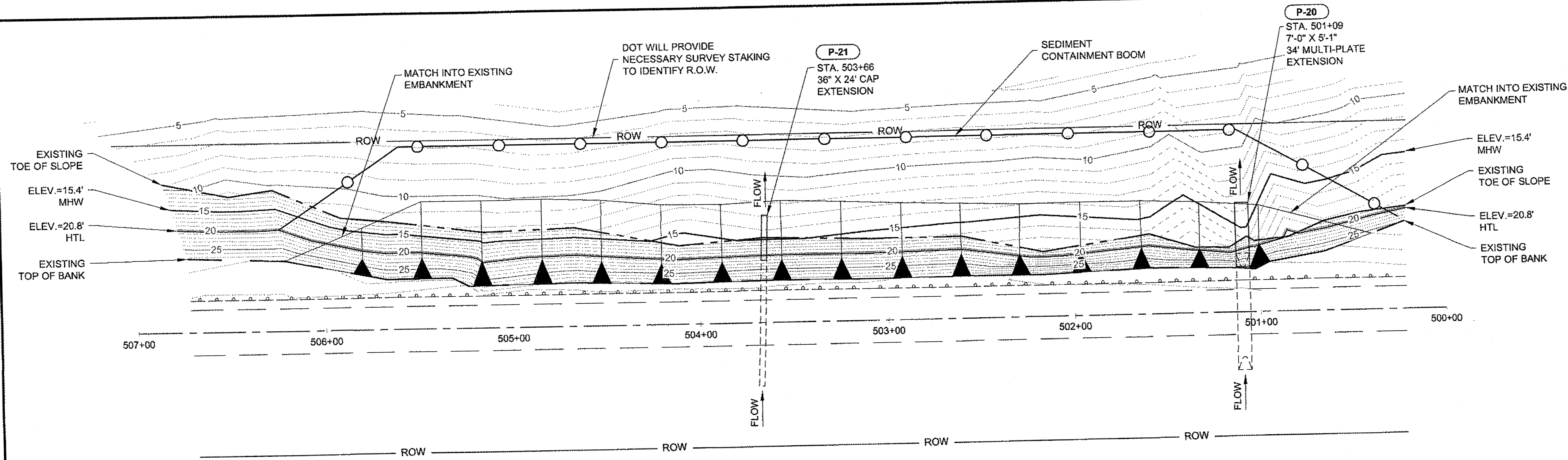
DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

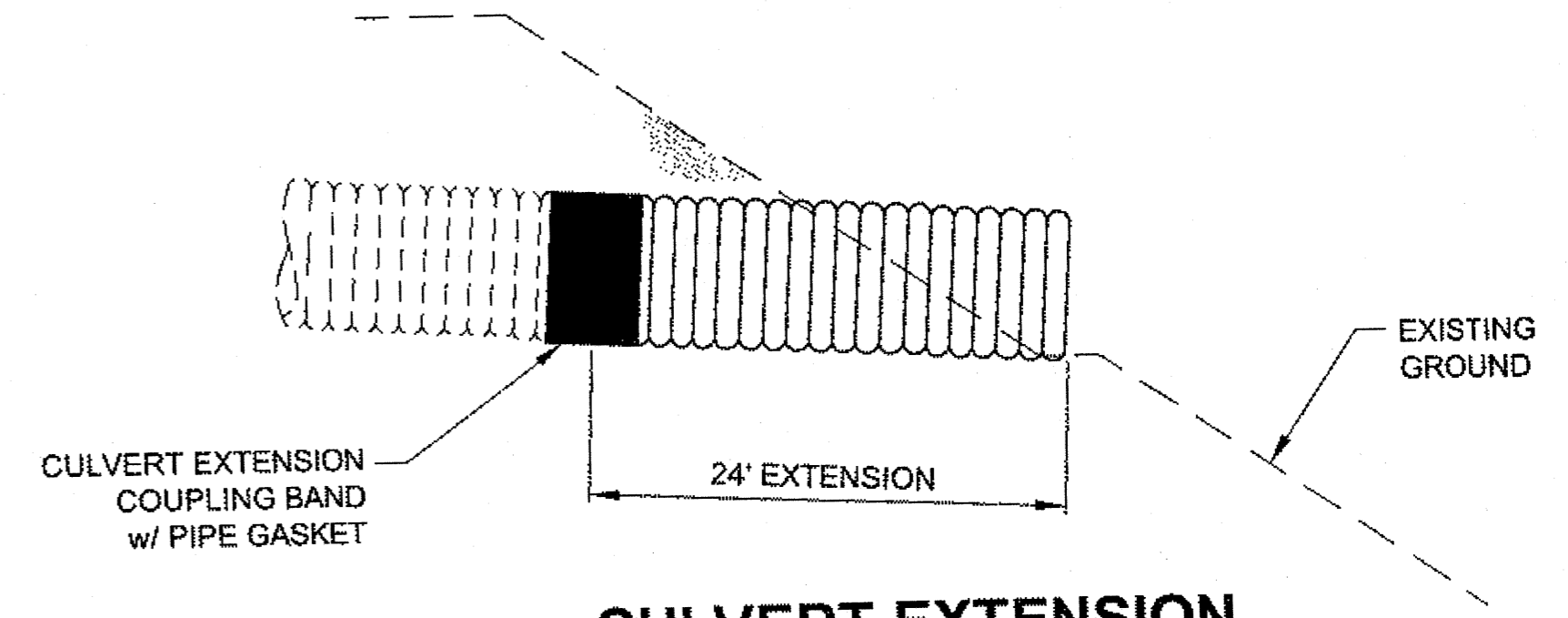
**JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION**

CULVERT DETAILS

PATH: G:\JNU\169633\PLANSET\69633_J1-J4_DETAILS.DWG			GRANTHAM, RICK L (DOT)			
TAB: J4 Thursday, September 30, 2010 8:21:45 AM						
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	NH-0959(19)-69633	2010	J4	32

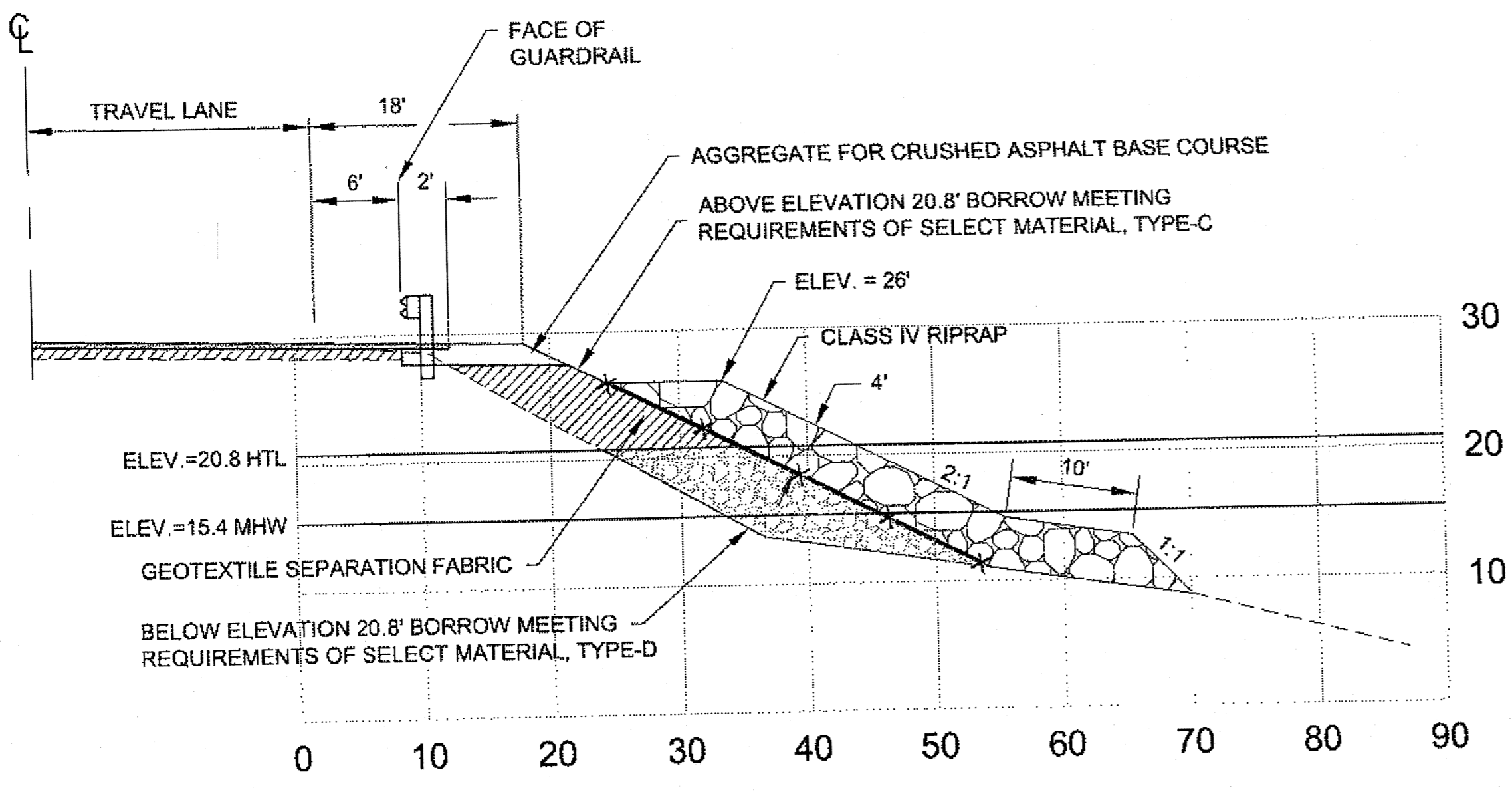


PLAN VIEW
STA. 500+80 TO STA. 506+00



CULVERT EXTENSION
STA. 503+66

- NOTES:**
- CULVERT EXTENSIONS USE ANNULAR, HUGGER, HELICAL OR FLAT COUPLING BAND OR ENGINEERS RECOMMENDATION ALONG WITH SLEEVE, STRIP OR MASTIC GASKET.



TYPICAL CROSS-SECTION
STA. 500+80 TO STA. 506+00

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM, D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

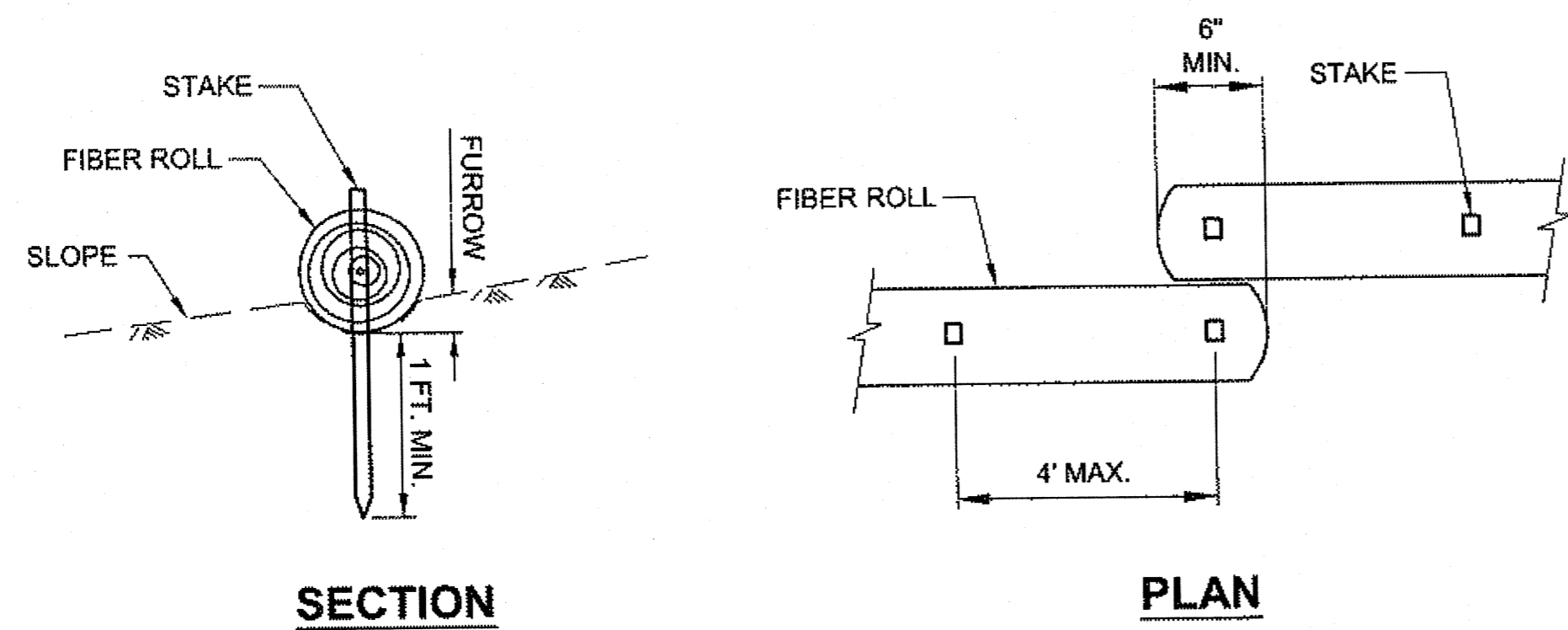
JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION

EMBANKMENT REPAIR

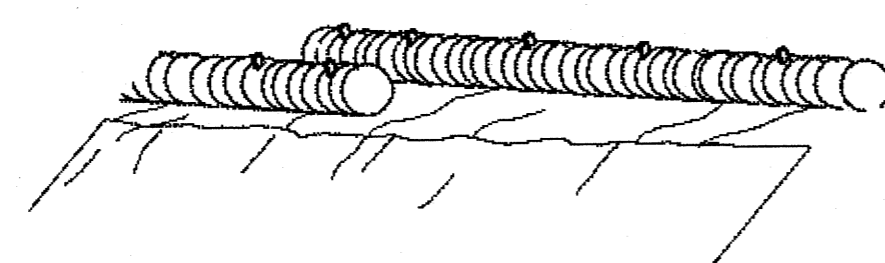
9-30-10

PATH: Q:\JNU\169633\PLANSET\69633_J5_RIPRAP DETAIL.DWG
TAB: J5 Thursday, September 30, 2010 8:22:18 AM GRANTHAM, RICK L (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-0959(19)-69633	2010	J5	32



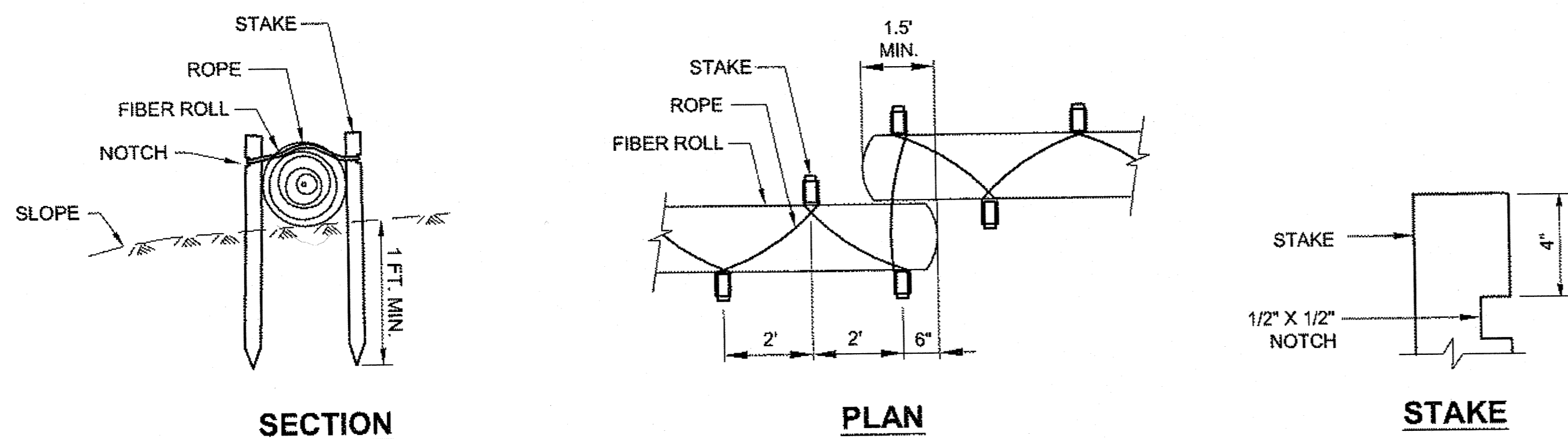
FIBER ROLL (TYPE 1)



**PERSPECTIVE
FIBER ROLL (TYPE 1)**

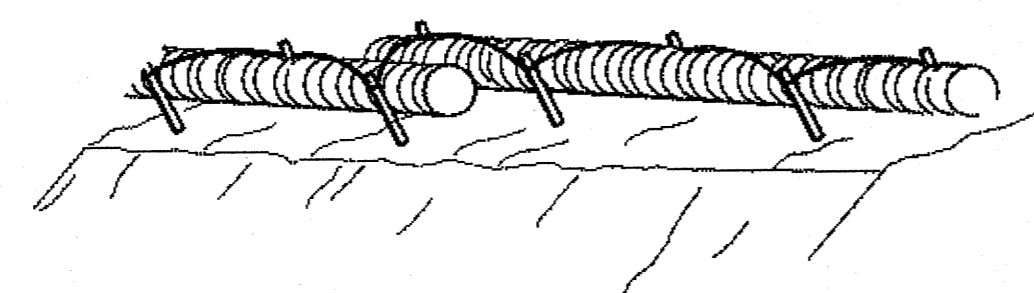
NOTES:

1. THE LOCATION AND LENGTH OF FIBER ROLLS IS DEPENDENT ON THE CONDITION OF THE SITE.
2. LAP ADJACENT FIBER ROLLS TO PREVENT SEDIMENT BYPASS.
3. ANCHOR AS NECESSARY TO FIRMLY SECURE FIBER ROLLS AND PROVIDE CONTINUOUS CONTACT WITH THE SURFACE ON WHICH IT IS INSTALLED.

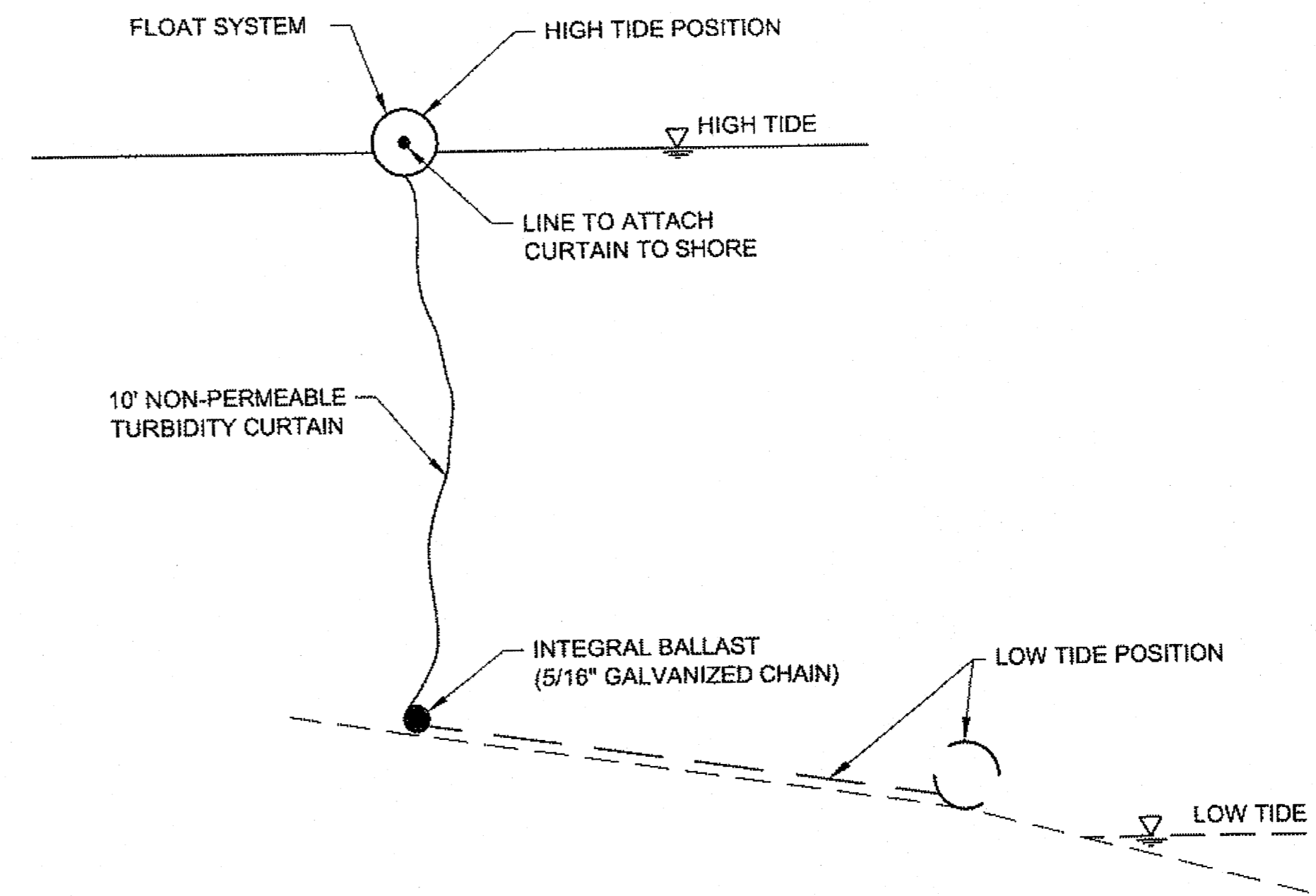


FIBER ROLL (TYPE 2)

TYPICAL FIBER ROLL DETAIL



**PERSPECTIVE
FIBER ROLL (TYPE 2)**



SEDIMENT CONTAINMENT BOOM ELEVATION

NTS

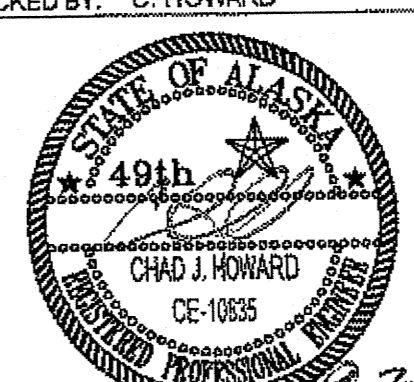
NOTES:

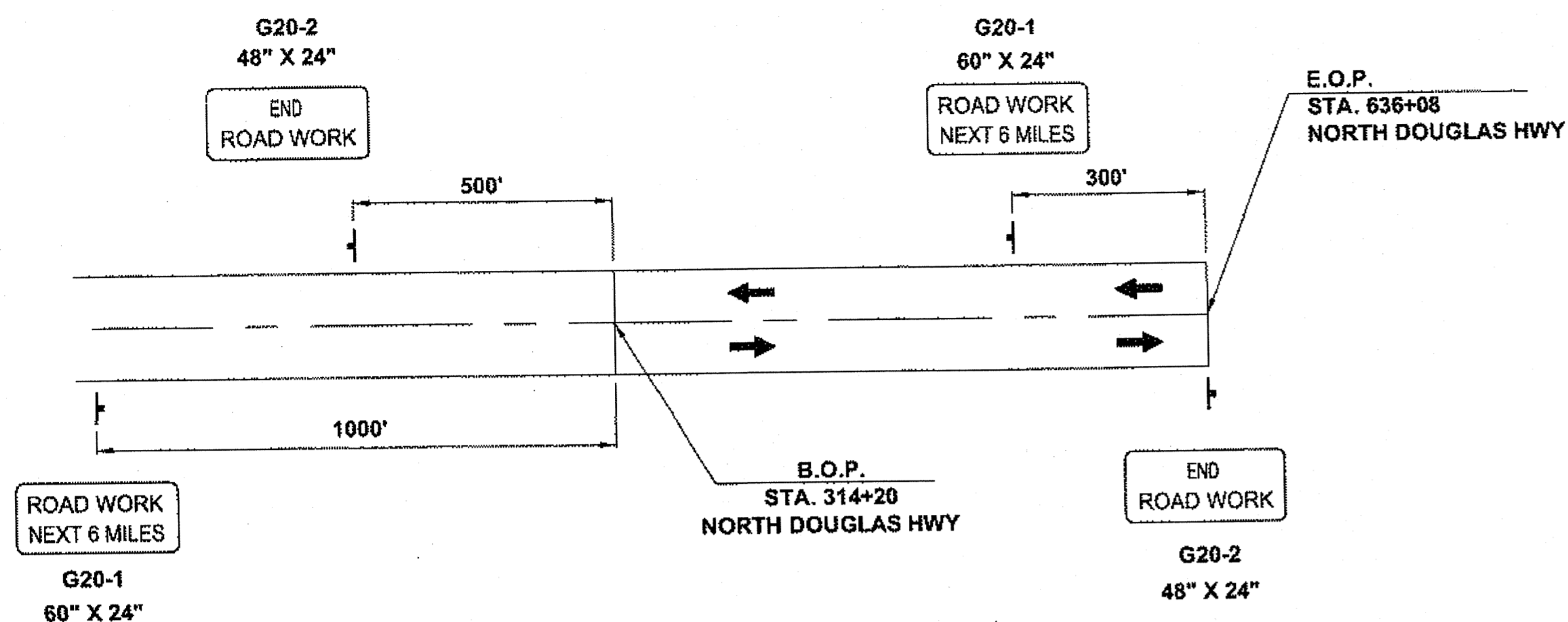
1. INSTALL A SEDIMENT CONTAINMENT BOOM BEFORE GROUND DISTURBING ACTIVITIES TO CONSTRUCT THE RIPRAP, TO ISOLATE THE SITE. THE BOOM SHALL COMPLETELY CONTAIN THE AREA OF WORK DURING ALL ACTIVITIES AT THIS LOCATION.
2. THE LOCATION OF THE SEDIMENT BOOM SHOWN ON THIS SHEET IS APPROXIMATE ONLY. THE CONTRACTOR MAY UTILIZE ANY REASONABLE LOCATION AND LENGTH WITHIN ROW SUCH THAT THE AREA OF WORK REMAINS ENCLOSED.
3. THE BOOM SHALL BE MAINTAINED 24 HOURS PER DAY BY THE CONTRACTOR AND UPON REMOVAL, SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED OF.
4. THE BOOM SHALL REMAIN IN PLACE UNTIL ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND WATER QUALITY IS DEEMED ACCEPTABLE BY THE ENGINEER.

EROSION & SEDIMENT CONTROL NOTES:

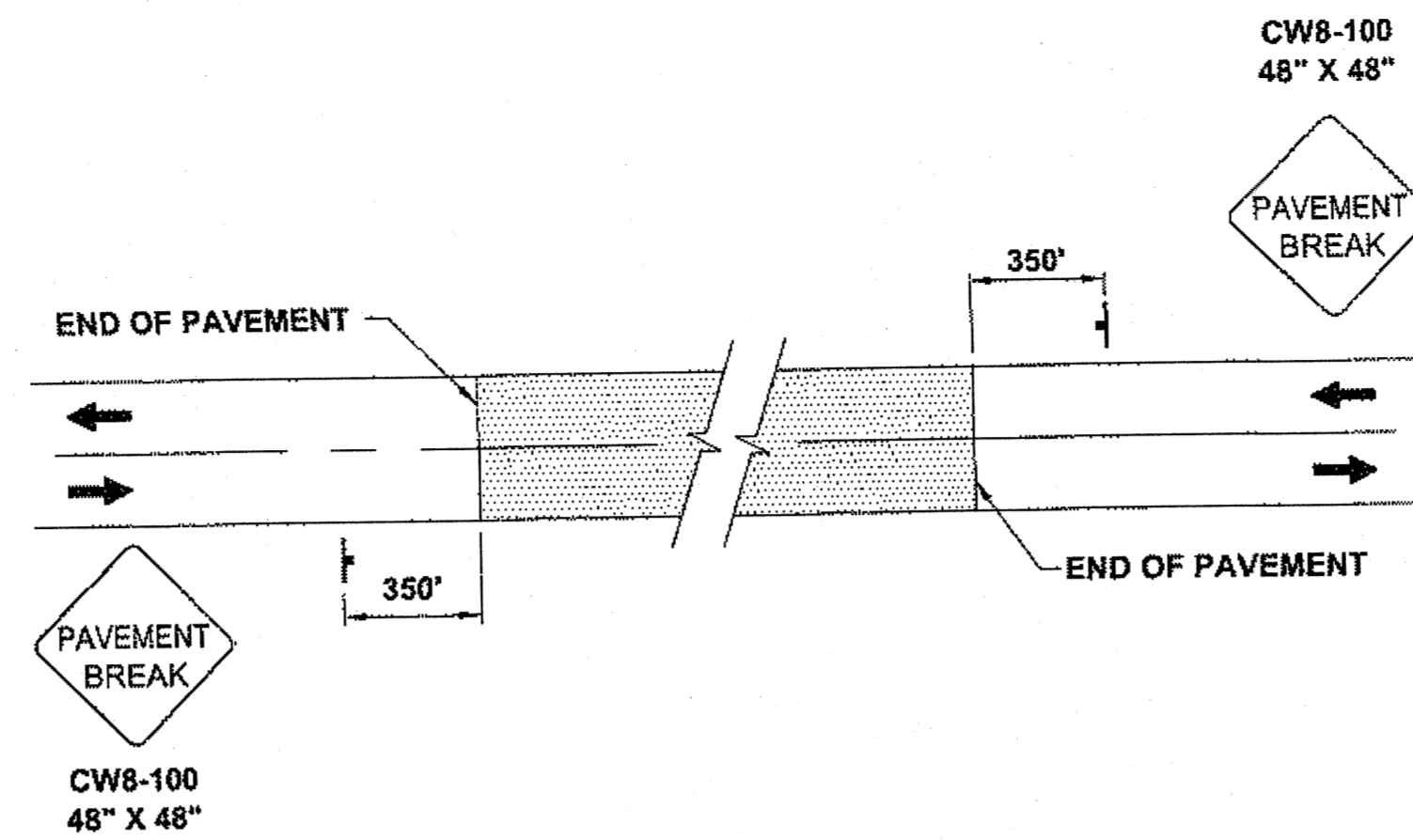
1. REFER TO APPENDIX B OF THE SPECIAL PROVISIONS FOR THE ENVIRONMENTAL COMMITMENTS.
2. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECS.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING EARTH DISTURBING ACTIVITIES AND COLD PLANING OR AS SPECIFIED ELSEWHERE.
4. MAINTAIN DEVICES. MONITOR DAILY. REMOVE SEDIMENT FROM SEDIMENT TRAPS WHEN 4" OF SEDIMENT HAS ACCUMULATED.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

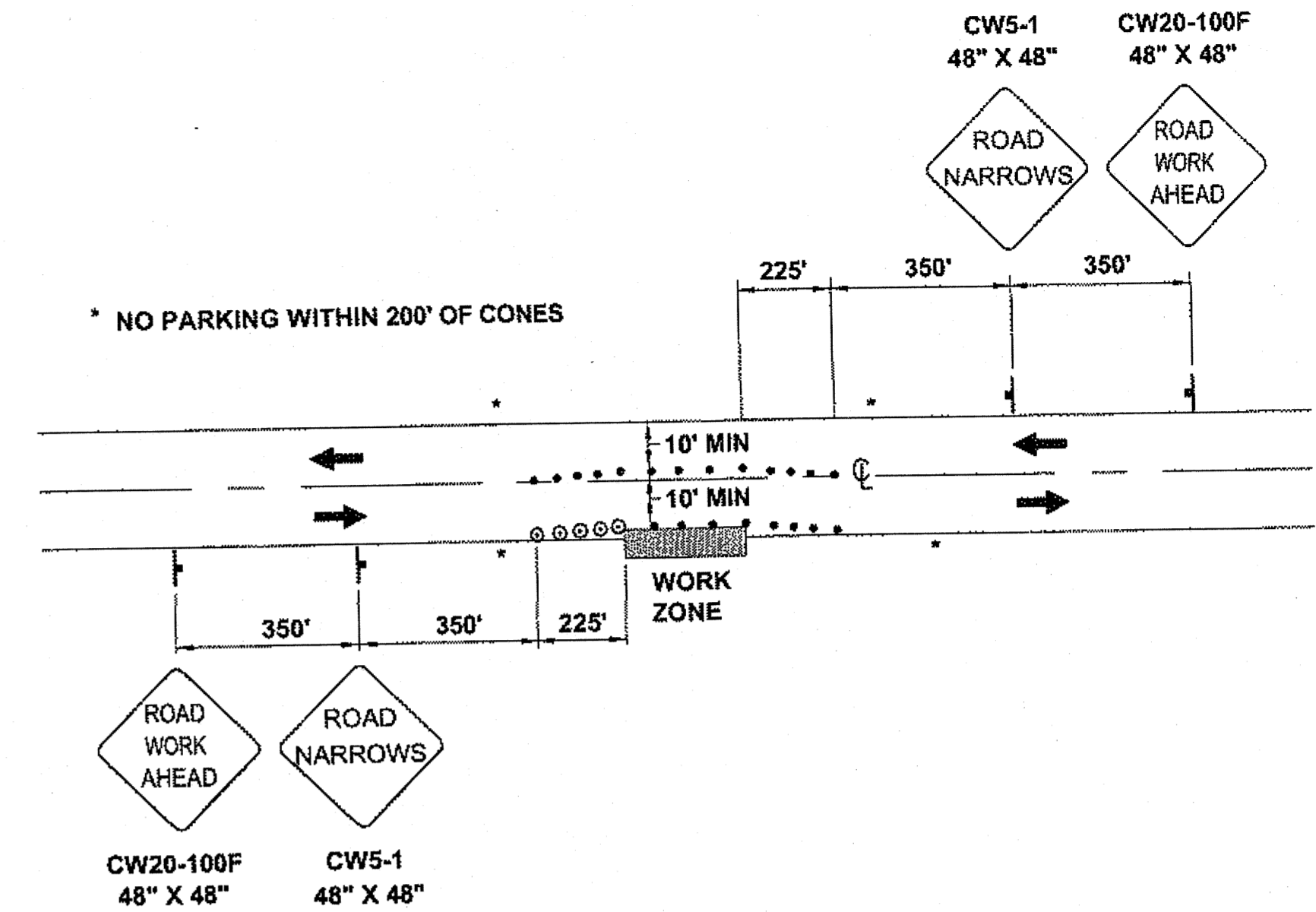
CHECKED BY: C. HOWARD  DESIGNED BY: D. MULLINER DRAWN BY: R. GRANTHAM, D. MULLINER		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION JNU-N. DOUGLAS HIGHWAY PAVEMENT REHABILITATION				
PATH: Q:\JNU\69633\PLANSET\69633_P1_DETAILS.DWG TAB: P1 Thursday, September 30, 2010 8:22:49 AM GRANTHAM, RICK L (DOT)		EROSION & SEDIMENT CONTROL DETAILS				
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION NH-0959(19)-69633	YEAR 2010	SHEET NO. P1	TOTAL SHEETS 32



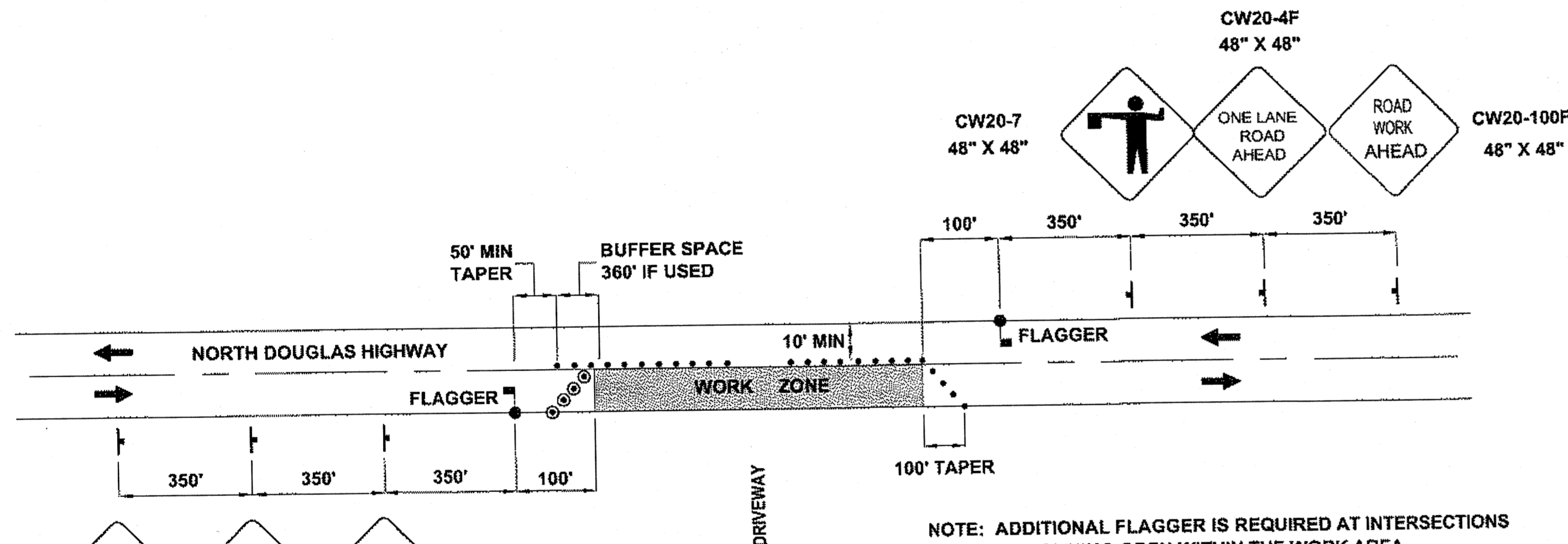
PERMANENT CONSTRUCTION SIGNING
(SEE STD. DWG C-04.12 FOR DOUBLE FINE SIGNS)



SIGNING FOR UNPAVED AREA



ROADWAY ENCROACHMENT FOR 45 MPH



NOTE: ADDITIONAL FLAGGER IS REQUIRED AT INTERSECTIONS REMAINING OPEN WITHIN THE WORK AREA.

TWO LANE ROADWAY-SINGLE LANE CLOSURE

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 IN WORK AREAS.
- TWO LANES SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
- DRIVING LANES SHALL BE A MINIMUM WIDTH OF 10'.
- TRAFFIC DELAYS SHALL NOT EXCEED 5 MINUTES.
- THE UNEVEN LANES (CW8-11) SIGN SHOULD BE USED DURING OPERATIONS THAT CREATE A DIFFERENCE IN ELEVATION BETWEEN ADJACENT LANES OF 2 INCHES OR GREATER.
- FLAGGER STATIONS NEED TO BE ILLUMINATED AT NIGHT.
- THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
- DRUM OR CONE SPACING NEEDS TO BE MAXIMUM 45' ALONG THE TAPER SECTION AND 90' ALONG THE TANGENT, USING A MINIMUM OF 11 DEVICES.

TCP TABLE SETUP

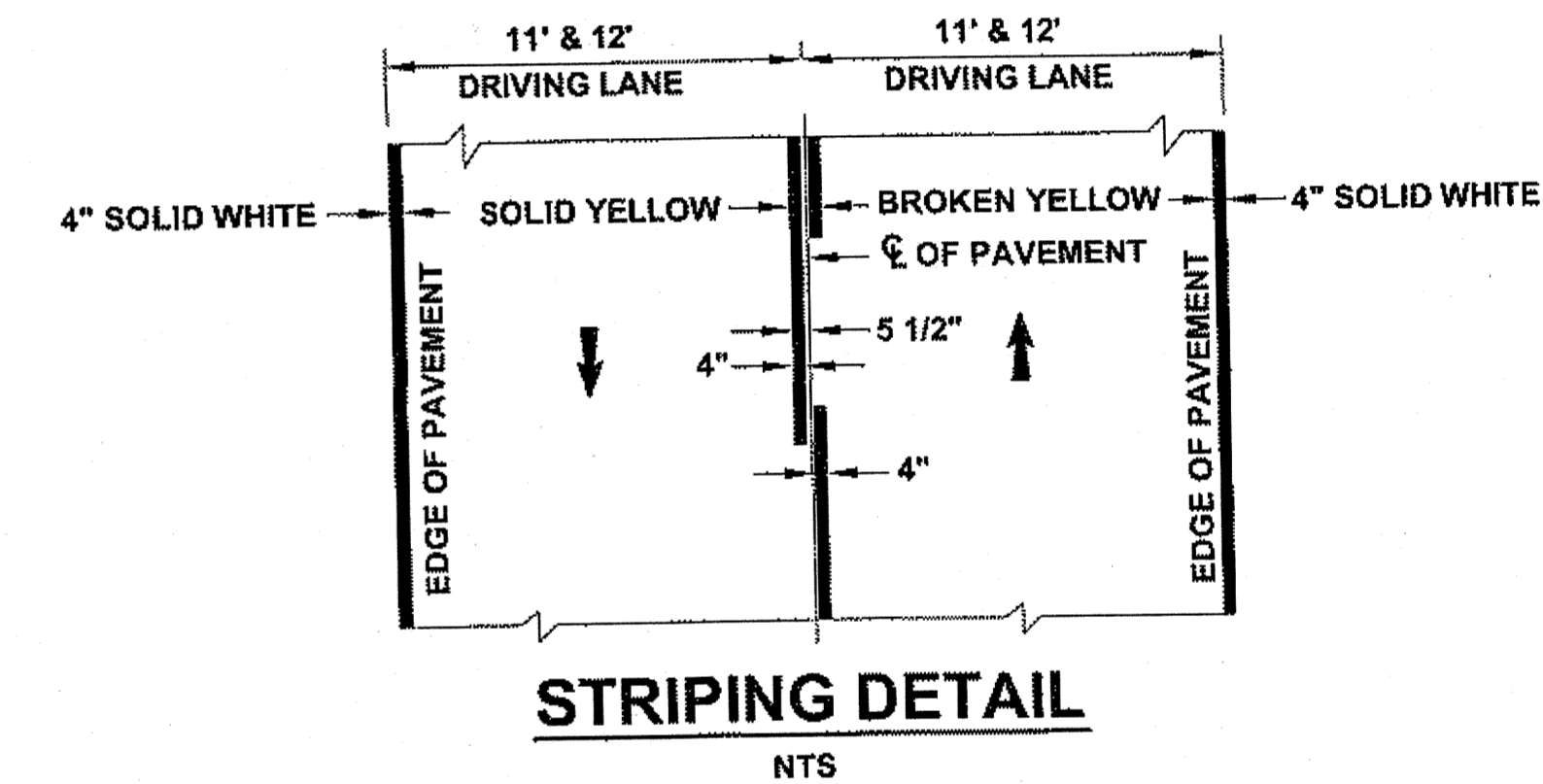
SPEED (MILES PER HOUR)	BUFFER/LENGTH (FT.)	CONE/DRUM SPACING (FT.)	TAPER LENGTH (L)
20	115	20	7:1
25	155	25	10:1
30	200	30	15:1
35	250	35	20:1
40	305	40	30:1
45	360	45	45:1
50	425	50	50:1
55	495	55	55:1
60	570	60	60:1
65	645	65	65:1

FORMULAS FOR L (TAPER LENGTH)

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

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

WHERE W=WIDTH OF OFFSET
S= POSTED SPEED LIMIT



STRIPING DETAIL
NTS

STRIPING NOTE:

- PASSING ZONES SHALL BE LOCATED IN FIELD. THE CONTRACTOR SHALL REFERENCE AND STAKE THE LOCATIONS OF PASSING ZONES PER SPECIAL PROVISION 670.
- CONTRACTOR STRIPING SHALL BE LIMITED TO AREAS RECEIVING PAVEMENT REHABILITATION. THE CONTRACTOR IS RESPONSIBLE TO RE-STRIP ANY STRIPING THAT IS OBLITERATED DUE TO CONSTRUCTION ACTIVITIES

LEGEND

-----	SIGN
●	CONE
○	DRUM
	TYPE III BARRICADE
■	FLAGGING STATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

JNU-N. DOUGLAS HIGHWAY
PAVEMENT REHABILITATION

TRAFFIC CONTROL PLAN

PATH: Q:\JNU\69633\PLANSET\69633_S1_TCP.DWG
TAB: S1 Thursday, September 30, 2010 9:28:50 AM GRANTHAM, RICK L (DOT)

NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0959(19)-69633	2010	S1	32