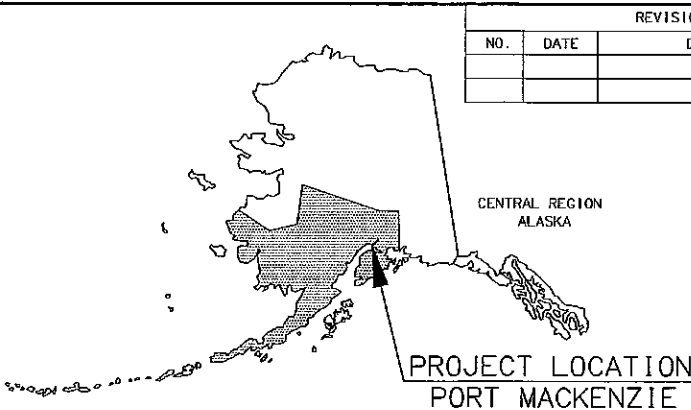


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
PORT MACKENZIE ACCESS ROAD
SDP-0001 (370)/58168
RECONSTRUCTION, GRADING, AND DRAINAGE FLUME



REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	SDP-0001 (370)/58168	2009	A1	34
ROUTE: (CDS 170080) POINT MACKENZIE RD		MILEPOINT: 21.8 TO 23.0		

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE
A2	LEGEND
A3	OVERVIEW
A4-A5	SURVEY CONTROL SHEETS
B1-B5	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1-D3	SUMMARY SHEETS
E1-E3	DETAILS SHEETS
F1-F9	PLAN AND PROFILE SHEETS
H1	SIGNING
P1-P5	EROSION CONTROL SHEETS & DETAILS
R1	RIGHT OF WAY DRAWING

DESIGN DESIGNATIONS	
	DON YOUNG ROAD
A.A.D.T. 2007	50
A.A.D.T. 2022	750
V (mph)	30
DHV (%)	10
T (%)	50
D. (%)	60/40

REVIEW SET
9/1/09

THE FOLLOWING STANDARD DRAWINGS
APPLY TO THIS PROJECT:
A-1
D-01.02, D-04.21, D-06.10, D-10.02, D-13.10, D-30.01
E-00.00, E-09.00, E-13.00
G-00.01, G-04.06S, G-10.01, G-20.10
M-16.01
S-00.10, S-01.01, S-05.01, S-30.03
T-05.10

PROJECT SUMMARY		
SECTION	LENGTH	WIDTH (FT.)
BASE BID		
DON YOUNG ROAD	0.8 MILES	36-44
DRAINAGE FLUME	500 FEET	10
ADDITIVE ALTERNATE #1		
DON YOUNG ROAD	0.5 MILES	36-44
OVERLOOK DRIVEWAY	320 FEET	24

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES



APPROVED:

DIRECTOR, DESIGN AND CONSTRUCTION DATE
CONCUR:

DIRECTOR, CONSTRUCTION & OPERATIONS DATE
CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

DESIGNED BY: PND ENGINEERS, INC.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	A2	A5

REVIEW SET

9/1/09

EXISTING	PROPOSED
MAILBOX	
SIGN (FACING)	
DELINEATOR (FACING)	
PVC CONDUIT	
RMC CONDUIT	
SIGNAL FACE, VEHICULAR	
SIGNAL FACE, LEFT TURN,	
SIGNAL FACE, PEDESTRIAN	
JUNCTION BOX, TYPE IA	
JUNCTION BOX, TYPE II	
JUNCTION BOX, TYPE III	
DETECTOR, LOOP	
DETECTOR, OPTICOM	
PEDESTRIAN PUSH BUTTON (DIRECTION)	
SIGNAL CONTROLLER	
LOAD CENTER	
SIGNAL POLE	
SIGNAL POLE w/MASTARM	
SOLID WHITE STRIPE	
SOLID YELLOW STRIPE	
BROKEN WHITE or YELLOW STRIPE	
DASH YELLOW STRIPE	
SOLID YELLOW STRIPE with BROKEN YELLOW STRIPE	

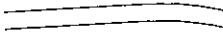
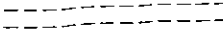
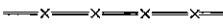
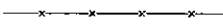
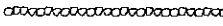
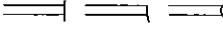
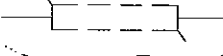
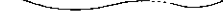
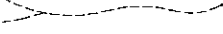
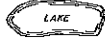
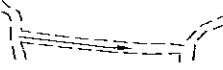
X = ACTUAL NUMBER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

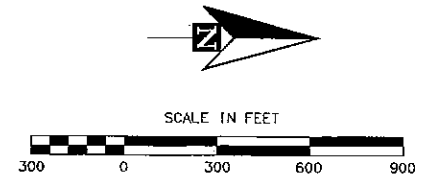
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

SYMBOLS

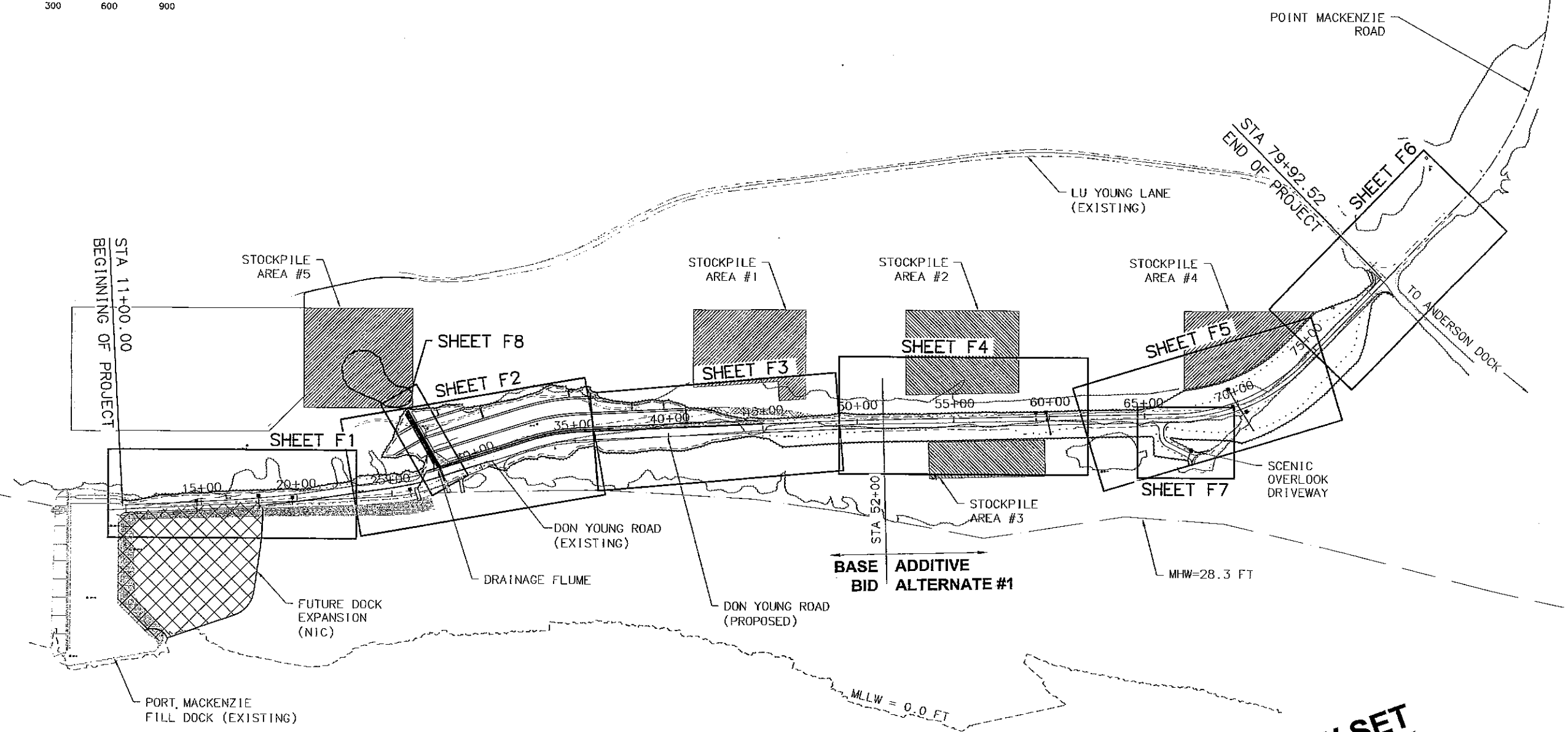
RECOVERED	TO BE SET THIS PROJECT
GOV'T SECTION CORNER	
GOV'T 1/4 SECTION CORNER	
GOV'T 1/16 SECTION CORNER	
GOV'T SURVEY MONUMENT	
GOV'T CONTROL STA.	
PRIMARY MON. [BRASS/AL CAP]	
SECONDARY CORNER	
PRIMARY CENTERLINE MONUMENT	
SECONDARY CENTERLINE MONUMENT	
SURVEY CONTROL POINT	
SECONDARY SURVEY CONT. POINT	
GPS CONTROL POINT	
BENCH MARK	
TEMPORARY BENCH MARK	
ROCK MONUMENT	
INTERNATIONAL BOUNDARY LINE	
TOWNSHIP & RANGE LINE	
SECTION LINE	
1/4 SECTION LINE	
1/16 SECTION LINE	
CORPORATE or CITY LIMITS	
EXISTING RIGHT-OF-WAY	
RIGHT-OF-WAY REQUIRED	
PROJECT RIGHT-OF-WAY LINE	
EXISTING PROPERTY LINE	
CONTROLLED ACCESS LINE	
PERMIT LINE	
EXISTING EASEMENT LINE	
STATION EQUATION	
PROJECT CENTERLINE	
EXISTING CENTERLINE	
RAILROAD CENTERLINE	
HIGHWAY MILEPOST	
RAILROAD MILEPOST	

ROADWAY OBLITERATION	
LIMIT OF CUT SLOPE	
LIMIT OF FILL SLOPE	
PROPOSED ROADWAY	
EXISTING ROADWAY	
NOISE BARRIER	
FENCE	
STONE FENCE	
HEAD & WINGWALLS	
GUARD RAIL EXISTING	
PROPOSED	
RETAINING WALL	
TUNNEL	
INTERMITTENT DRAINAGE	
INTERCEPTOR DITCH	
MARSHLAND	
CREEK	
RIVER	
LAKE	
RESERVOIR	
CHANNEL CHANGE	
PLANTER	
VENT	
TANK VENT	
WELL	
SEPTIC	
TANKS	
Above Ground	
Below Ground	
SATELLITE DISH	
PRIVATE SIGN	
GAS PUMP	
POST	
BOULDER OR BOULDERS	 
LANDSCAPE LIGHT	
DECIDUOUS TREE	
CONIFER TREE	
SHRUB OR SHRUBS	

PIPELINES:	EXISTING	PROPOSED
(BELLS INDICATE DIRECTION OF FLOW)		
SANITARY SEWER		
OIL		
GAS		
WATER		
STORM DRAIN		
SIDEWALK		
CONCRETE CURB		
CONCRETE CURB & GUTTER		
DRIVEWAY, APPROACH, & SIDEDRAIN		
BRIDGE		
RIPRAP		
TELEPHONE		
ELECTRIC		
FIBER OPTIC		
CABLE TV		
U.G. DUCT		
TELEPHONE MANHOLE		
ELECTRIC MANHOLE		
FOUNDATION		
BUILDING		
MANHOLE		
FIRE HYDRANT		
METER		
VALVE		
PIPE CULVERT w/ END SECT.		
UTILITY POLE		
ELECTROLIER		
UTILITY POLE WITH LUMINAIRE		
POLE ANCHOR /w GUY		
TRANSMISSION TOWER [WOOD]		
TRANSMISSION TOWER [STEEL]		
ELECTRICAL OUTLET		
ELECTRICAL PEDESTAL		
TELEPHONE PEDESTAL		
CABLE T.V. PEDESTAL		



REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	A3	A5



REVIEW SET
9/1/09

ABBREVIATIONS							
DEFINITION		DEFINITION		DEFINITION		DEFINITION	
ADD ALT	ADDITIVE ALTERNATE	FT	FEET	PI	POINT OF INTERSECTION	VC	VERTICAL CURVE
BH	BOREHOLE	FT3	CUBIC FEET	PT	POINT OF TANGENCY, POINT		
CL	CENTERLINE	L	LENGTH	PVI	POINT OF VERTICAL INTERSECTION		
CPEP	CORRUGATED POLYETHYLENE PIPE	LB	POUND(S)	R	RADIUS		
CS	CONTINGENT SUM	LF	LINEAR FEET	R/W, ROW	RIGHT OF WAY		
CSP	CORRUGATED STEEL PIPE	LS	LUMP SUM	REQ'D	REQUIRED		
CY	CUBIC YARD	LT	LEFT	RO	RUNOFF		
DF	DRAINAGE FLUME	MAX	MAXIMUM	RT	RIGHT		
E	EASTING, -EAST	MHW	MEAN HIGH WATER	S	SUPERELEVATION		
EA	EACH	MIN	MINIMUM	SF	SQUARE FEET		
ECB	EROSION CONTROL BLANKET	MLLW	MEAN LOWER LOW WATER	SHDR	SHOULDER		
ELEV	ELEVATION	N	NORTHING, NORTH	STA	STATION		
EX	EXCAVATION	NIC	NOT IN CONTRACT	SY	SQUARE YARD		
F&I	FURNISH & INSTALL	PC	POINT OF CURVATURE	T	TANGENT		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

OVERVIEW

HORIZONTAL DATUM

THE PROJECT COORDINATES ARE NAD 83 STATE PLANE ZONE 4, US SURVEY FEET VALUES. THE BASIS OF COORDINATES FOR THIS DRAWING ARE TAKEN FROM THE "KNIK ARM ALASKA" CONTROL DIAGRAM DATED MAY 2, 1992 FOR THE CONTROL MONUMENT "AWWU" SET BY LCMF IN 1992. THE COORDINATES AND DIAGRAM WERE SUPPLIED TO PND ENGINEERS, INC. BY AEROMAP US, IN ORDER TO CONFORM WITH PREVIOUSLY GATHERED LIDAR DATA. A COMBINED MEAN SCALE FACTOR OF 1.000099827 (1/0.999900183) MUST BE APPLIED TO CONVERT COORDINATE VALUE INVERSES TO HORIZONTAL GROUND DISTANCES.

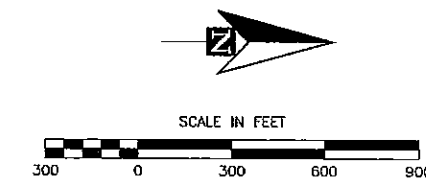
THE BASIS OF BEARING FOR THIS DRAWING IS N 0°05'38"W AND WAS DERIVED BY GPS / RTK OBSERVATIONS ON THE 1/4 CORNER MONUMENT FOR SECTION 25, 26, AND THE MONUMENT AND THE MONUMENT FOR SECTION 23, 24, 25, 26 TOWNSHIP 14 NORTH RANGE 4 WEST

VERTICAL DATUM

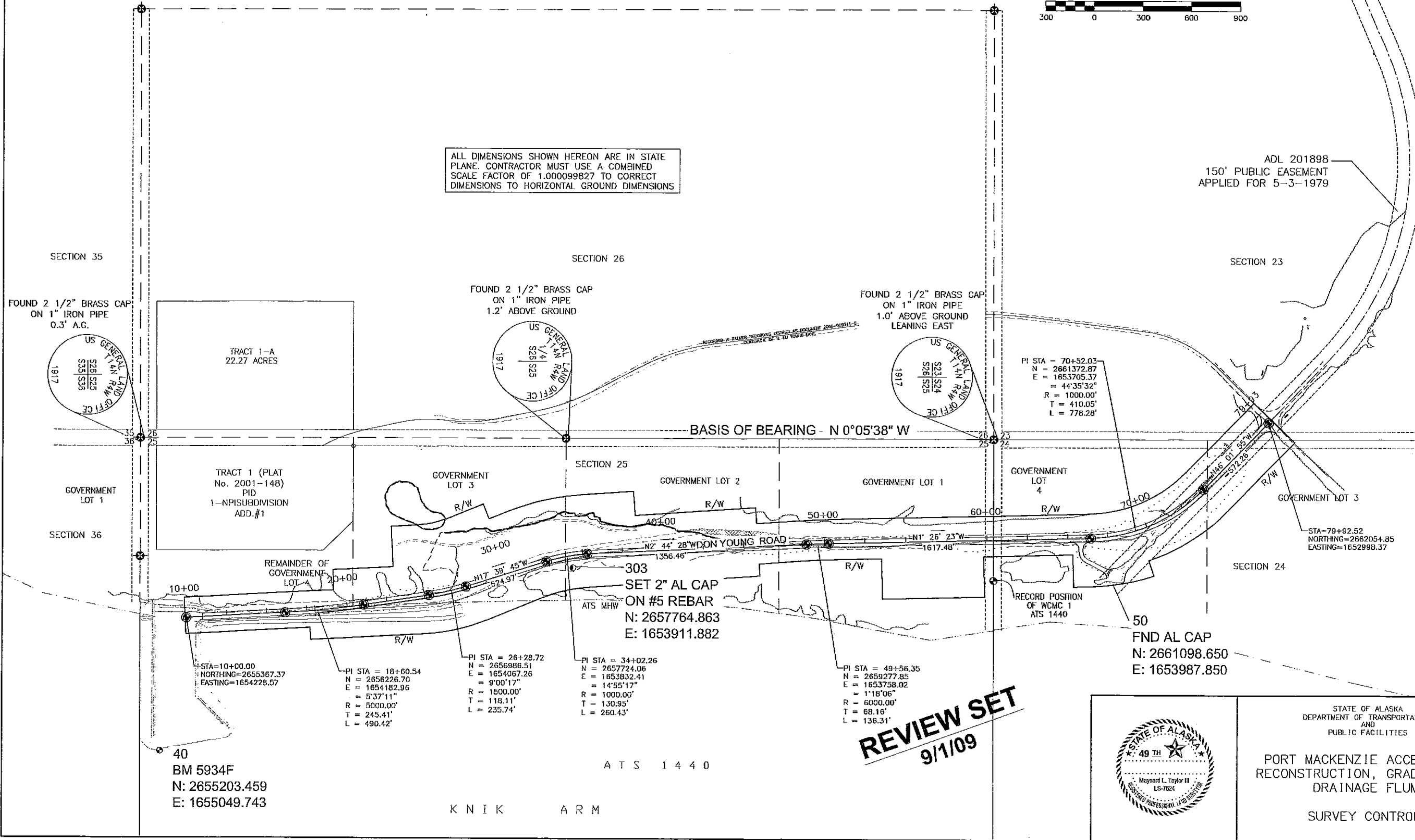
VERTICAL DATUM FOR THIS PROJECT IS MEAN LOWER LOW WATER (MLLW = 0.00').

THE BASIS OF VERTICAL DATUM FOR THIS SURVEY IS FROM THE N.O.A.A. BENCH MARK "945 5934 F" ELEVATION = 36.48' MLLW. THE BENCH MARK IS BRASS CAP BRAZED TO THE STEEL PLATE THAT IS WELDED TO THE TOP OF THE DOCK FACE ON THE SOUTH END OF THE PORT MACKENZIE DOCK.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	A4	A5



ALL DIMENSIONS SHOWN HEREON ARE IN STATE PLANE. CONTRACTOR MUST USE A COMBINED SCALE FACTOR OF 1.000099827 TO CORRECT DIMENSIONS TO HORIZONTAL GROUND DIMENSIONS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

SURVEY CONTROL

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	A5	A5

PORT MACKENZIE ACCESS ROAD					
RECOVERED CORNERS					
LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET
NOAA BENCH MARK 945 "5934F 2001"	3 1/4" BRASS CAP MON.	2655203.459	1655049.743	7+92.80	811.33 RT
N/W COR TR.1 PID 1-NP1 SUBD.	5/8" REBAR W/ 2" AL. CAP	2656398.577	1653163.449	21+83.54	982.03 LT
1/4-SEC 25 & 26 T14N	2 1/2" BRASS CAP MON.	2657718.962	1653111.295	34+72.78	723.53 LT
WCMC 1 ATS 1440	2 1/2" ALUMINUM MON.	2660360.729	1653980.643	60+33.29	249.76 RT
SEC 23,24,25,26 T14N R4W	2 1/2" BRASS CAP MON.	2660359.926	1653106.970	60+54.44	623.66 LT

COORDINATES ARE IN NAD 83 FEET ALASKA STATE PLANE ZONE 1V ELEVATIONS ARE N.O.A.A. MEAN LOWER LOW WATER DATUM (MLLW = 0.00')				
PORT MACKENZIE ACCESS ROAD				
HORIZONTAL AND VERTICAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
40	2655203.459	1655049.743	36.48	FND NOAA TIDAL BM MONUMENT "945 5934F 2001"
303	2657764.863	1653911.882	148.91	SET PND 2" AL. CAP "CP 303"
50	2661098.650	1653987.850	145.85	FND PND 2" AL. CAP "CP 50"

PORT MACKENZIE ACCESS ROAD			
PROJECT CENTERLINE COORDINATES			
LOCATION	NORTHING	EASTING	STATION
BP	2655467.229	1654223.269	11+00.00
PC	2655981.636	1654195.966	16+15.13
PT	2656469.307	1654146.017	21+05.55
PC	2656869.744	1654085.042	25+10.60
PT	2657099.057	1654031.425	27+46.34
PC	2657599.276	1653872.145	32+71.31
PT	2657854.862	1653826.149	35+31.74
PC	2659209.771	1653761.276	48+88.20
PT	2659345.983	1653756.304	50+24.50
PC	2660962.950	1653715.668	66+41.98
PT	2661657.553	1653410.242	74+20.26
EP	2662054.848	1652998.373	79+92.52

ALL DIMENSIONS SHOWN HEREON ARE IN STATE PLANE. CONTRACTOR MUST USE A COMBINED SCALE FACTOR OF 1.000099827 TO CORRECT DIMENSIONS TO HORIZONTAL GROUND DIMENSIONS.

REVIEW SET
9/1/09



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

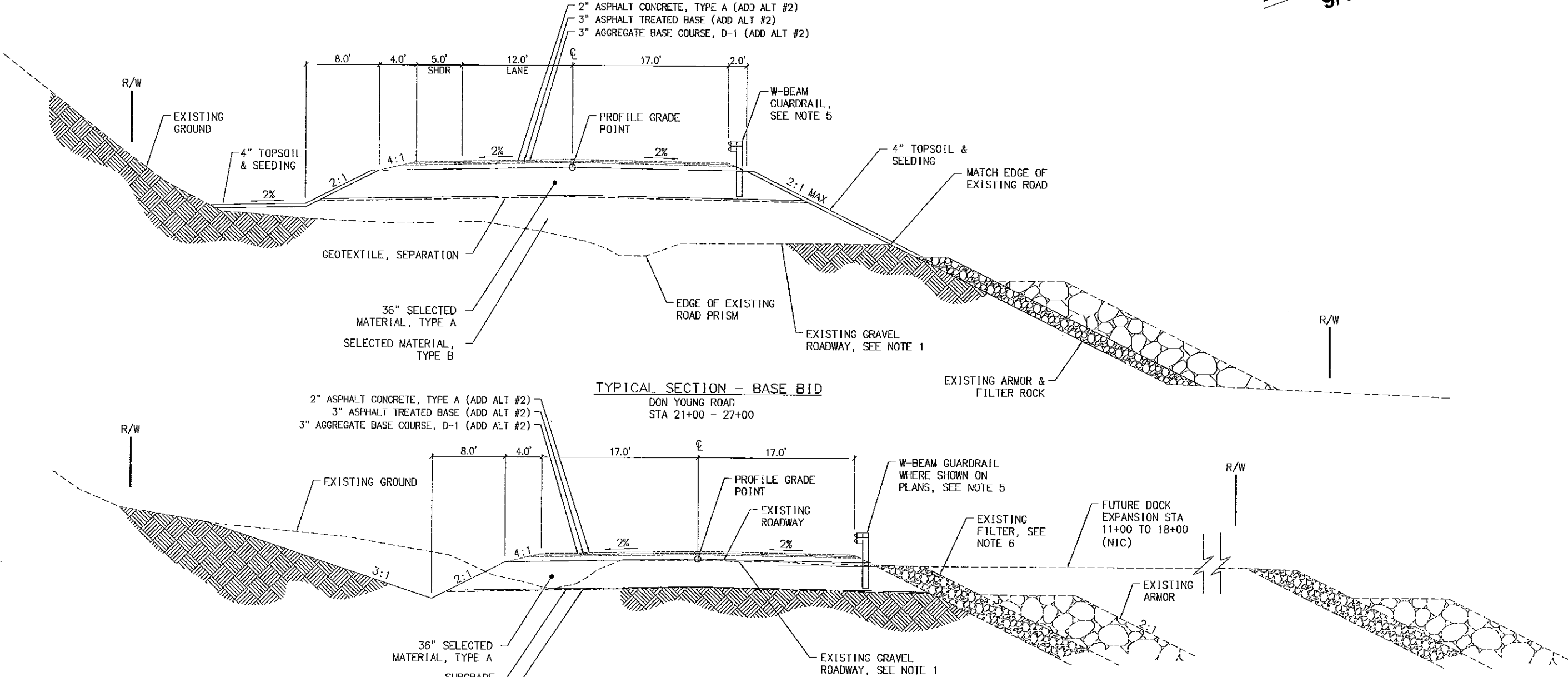
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

SURVEY CONTROL

- GENERAL NOTES:
- 1. WHERE THE EXISTING GRAVEL ROADWAY COINCIDES WITH THE PROPOSED STRUCTURAL SECTION, THE EXISTING MATERIAL SHALL BE CONSIDERED USABLE AS TYPE A MATERIAL AND MAY BE LEFT IN PLACE AND PREPARED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. CONTRACTOR SHALL VERIFY THICKNESS OF EXISTING STRUCTURAL SECTION AND EXCAVATE AND/OR PLACE ADDITIONAL FILL TO ACHIEVE REQUIRED DEPTH. WHERE EXISTING GEOTEXTILE FABRIC IS FOUND TO BE AT A DEPTH THAT WILL ALLOW THE FULL STRUCTURAL SECTION TO BE CONSTRUCTED, THE EXISTING FABRIC MAY BE LEFT IN PLACE AND REUSED.
 - 2. CLEARING LIMITS SHALL BE 10 FEET BEYOND CATCH POINTS UNLESS DIRECTED OTHERWISE BY THE ENGINEER. CLEARING SHALL NOT EXTEND BEYOND THE RIGHT-OF-WAY.
 - 3. STABILIZE ALL DISTURBED AREAS.
 - 4. IMPROVEMENTS SHALL BE CONTAINED WITHIN THE RIGHT OF WAY.
 - 5. GUARDRAIL HEIGHT TO BE DETERMINED BY ENGINEER.
 - 6. WHERE EXISTING FILTER ROCK OVERLAYS THE ROADBED, THE EXISTING ROADBED MATERIAL SHALL BE REUSED SUCH THAT FILTER ROCK IS NOT DISTURBED. ANY DISTURBANCE TO THE FILTER ROCK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	B1	B5

REVIEW SET
9/1/09



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

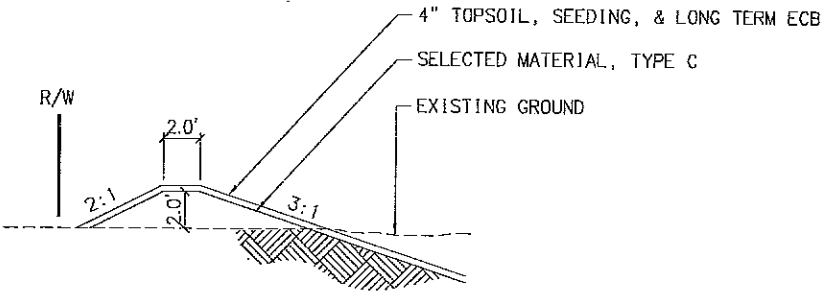
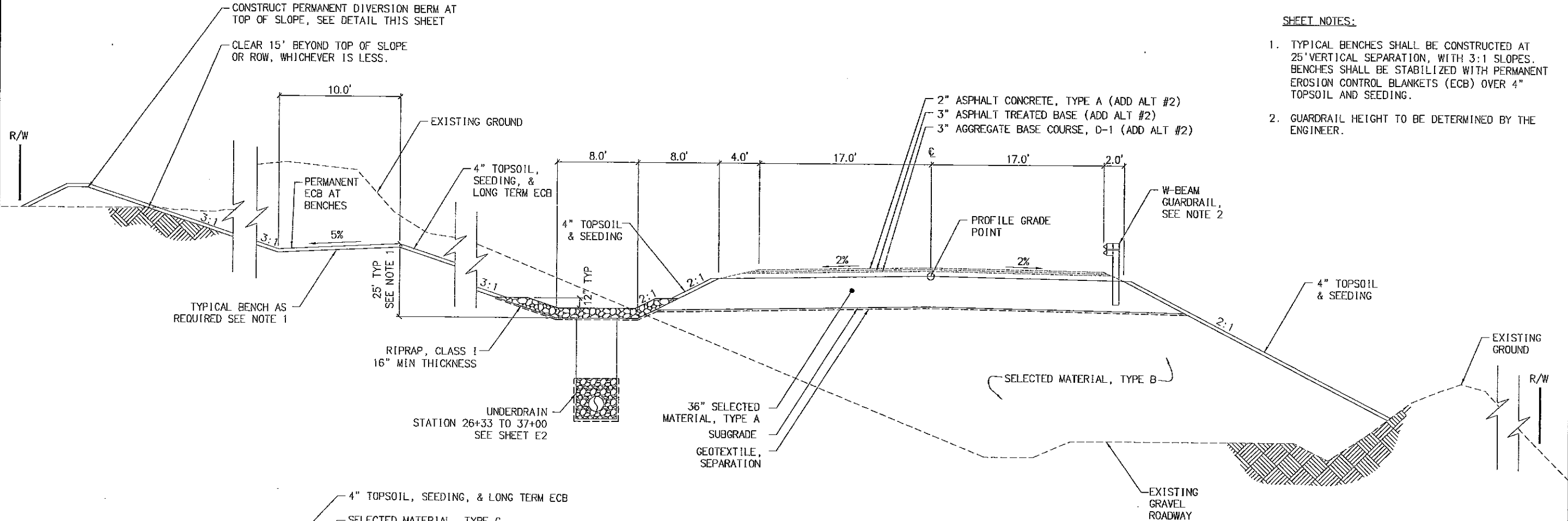
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

TYPICAL SECTIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	B2	B5

SHEET NOTES:

1. TYPICAL BENCHES SHALL BE CONSTRUCTED AT 25' VERTICAL SEPARATION, WITH 3:1 SLOPES. BENCHES SHALL BE STABILIZED WITH PERMANENT EROSION CONTROL BLANKETS (ECB) OVER 4" TOPSOIL AND SEEDING.
2. GUARDRAIL HEIGHT TO BE DETERMINED BY THE ENGINEER.



PERMANENT DIVERSION BERM

*PROVIDE OPENING IN BERM WHERE SPRING DRAINS ARE INDICATED ON PLANS.

TYPICAL SECTION - BASE BID

DON YOUNG ROAD
 STA 28+50 - 30+00
 SIMILAR 27+25 - 28+50
 SEE SHEETS E1&F8 FOR DRAINAGE FLUME ON PROJECT LEFT
 *TRANSITION SECTION FROM STATION 30+00 TO 30+50

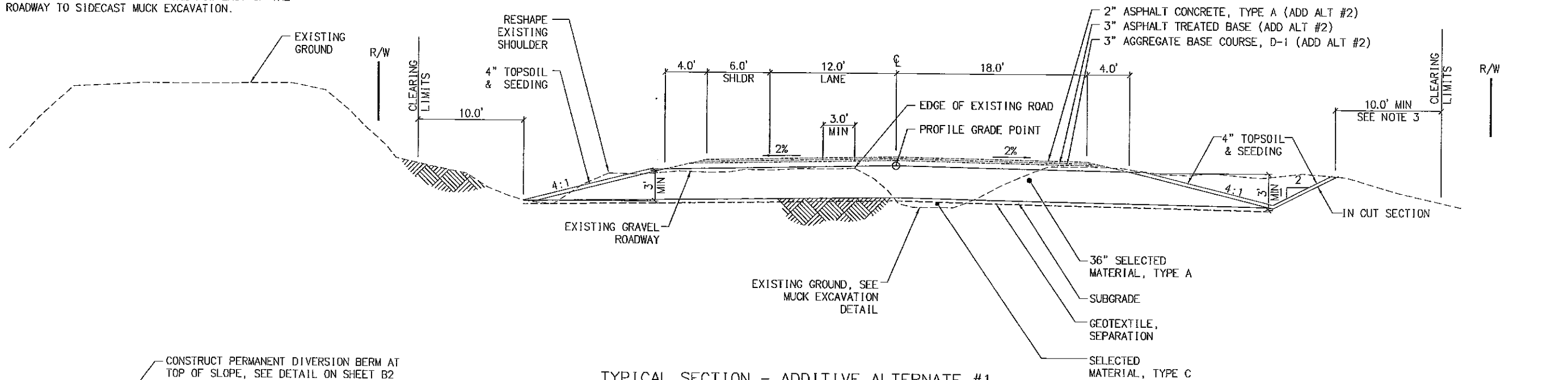
REVIEW SET
 9/1/09

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 PORT MACKENZIE ACCESS ROAD RECONSTRUCTION, GRADING, AND DRAINAGE FLUME
 TYPICAL SECTIONS

SHEET NOTES:

1. REFERENCE SHEET B4 FOR MUCK EXCAVATION REQUIREMENTS
2. TYPICAL BENCHES SHALL BE CONSTRUCTED AT 25' VERTICAL SEPARATION.
3. CLEAR AS NECESSARY WITHIN THE ROW EAST OF THE ROADWAY TO SIDECAST MUCK EXCAVATION.

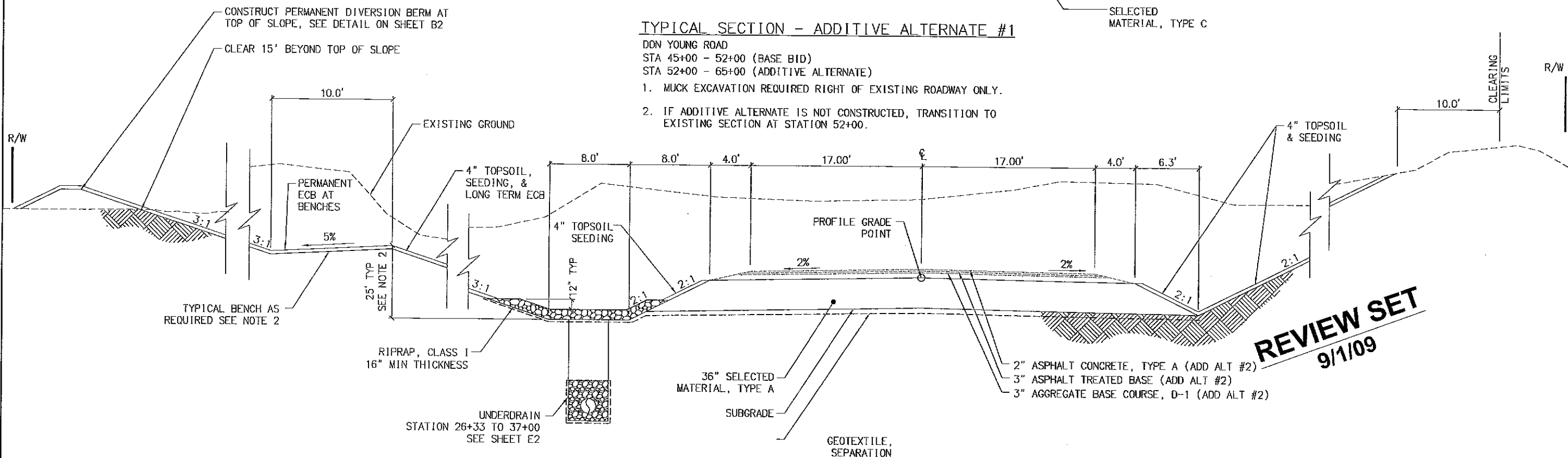
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	B3	B5



TYPICAL SECTION - ADDITIVE ALTERNATE #1

DON YOUNG ROAD
STA 45+00 - 52+00 (BASE BID)
STA 52+00 - 65+00 (ADDITIVE ALTERNATE)

1. MUCK EXCAVATION REQUIRED RIGHT OF EXISTING ROADWAY ONLY.
2. IF ADDITIVE ALTERNATE IS NOT CONSTRUCTED, TRANSITION TO EXISTING SECTION AT STATION 52+00.



TYPICAL SECTION - BASE BID

DON YOUNG ROAD
STA 30+50 - 44+50

* TRANSITION SECTION FROM STATION 44+50 TO 45+00.

REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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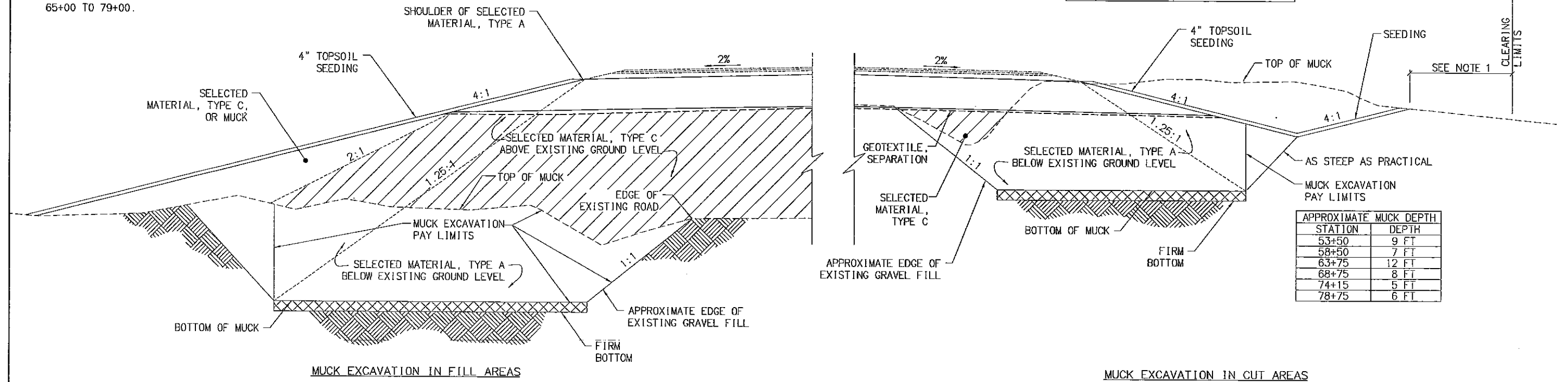
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

TYPICAL SECTIONS

SHEET NOTES:

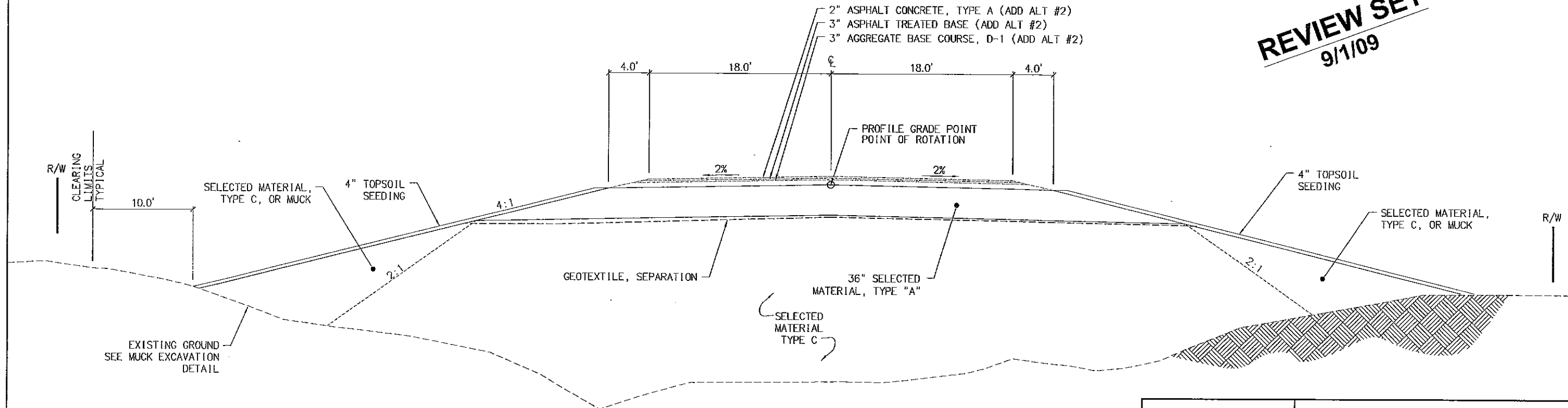
1. CLEAR AS NECESSARY WITHIN THE ROW TO SIDECAST MUCK EXCAVATION. SIDECASTING ALLOWED ON BOTH SIDES OF ROAD FROM STA 65+00 TO 79+00.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	B4	B5



TYPICAL MUCK EXCAVATION - ADDITIVE ALTERNATE #1

REVIEW SET
9/1/09



TYPICAL SECTION - ADDITIVE ALTERNATE #1

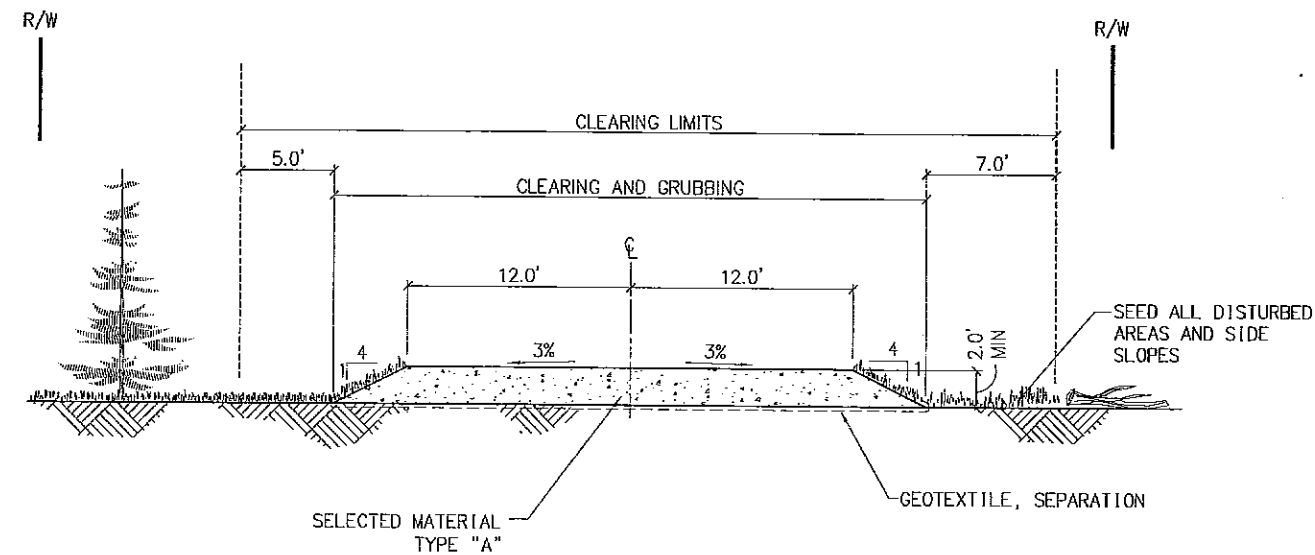
DON YOUNG ROAD
STA 65+00 - 79+00
* TAPER TO EXISTING
SECTION FROM 79+00 TO
79+92.52

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
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PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

TYPICAL SECTIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	B5	B5



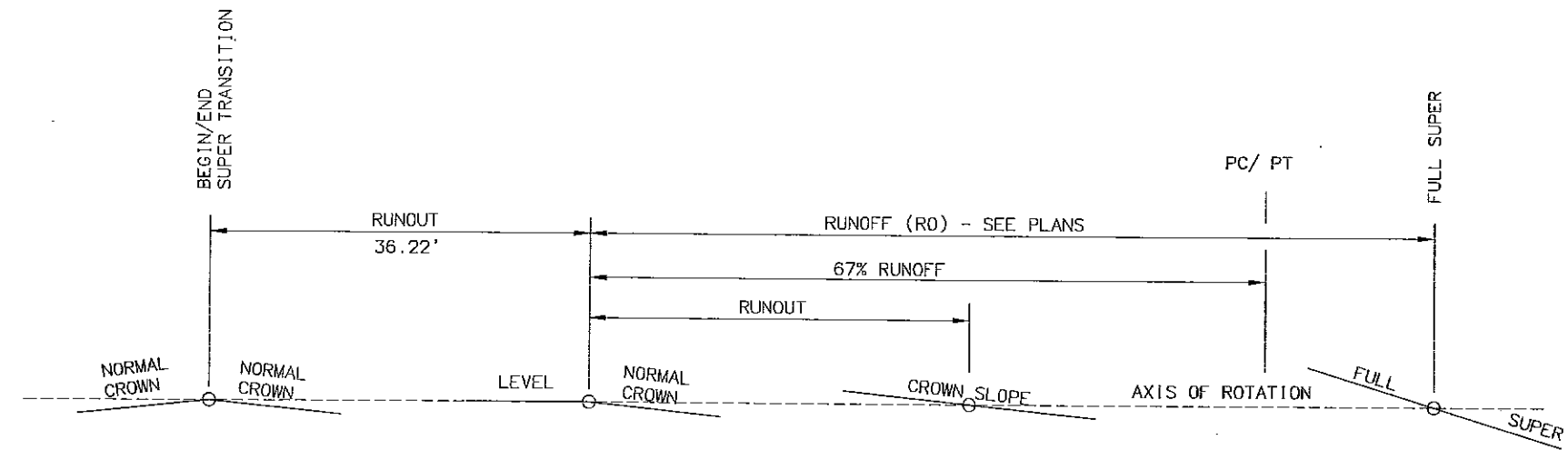
SHEET NOTES

- OVERLOOK DRIVEWAY SHALL BE CONSTRUCTED DIRECTLY OVER EXISTING VEGETATION AND IN-SITU SOILS. ROADBED SHALL BE SEPARATED FROM THE EXISTING GROUND BY GEOTEXTILE FABRIC.

REVIEW SET
9/1/09

OVERLOOK DRIVEWAY SECTION - ADDITIVE ALTERNATE #1

NTS
DRIVEWAY
STA "00" 10+18 TO "00" 13+30



NOTES

- TRANSITION THE ROADWAY TO A SUPERELEVATED CROSS SLOPE BY ROTATING THE TRAVELED WAY AND SHOULDER ABOUT THE CENTERLINE OF THE ALIGNMENT.
- BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
- % RUNOFF = PORTION OF RUNOFF ON TANGENT
- WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.
- SEE PLANS FOR DEGREE OF SUPERELEVATION.

SUPERELEVATION TRANSITION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

TYPICAL DRIVEWAY SECTION

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	C1	C2

ESTIMATE OF QUANTITIES									
ITEM NO.	PAY ITEM	PAY UNIT	BASE BID			ADDITIVE ALTERNATE #1			ADD ALT #2
			DON YOUNG ROAD	DRAINAGE FLUME	TOTAL QUANTITY (BASE)	DON YOUNG ROAD	SCENIC OVERLOOK DRIVEWAY	TOTAL QUANTITY (ADD ALT #1)	DON YOUNG ROAD
201(1A)	CLEARING	ACRE	1.4	*	1.4	1.1	0.1	1.2	-
201(3A)	CLEARING AND GRUBBING	ACRE	13.2	*	13.2	10.0	0.3	10.3	-
202(4)	REMOVAL OF CULVERT PIPE	LF	107	-	107	166	-	166	-
203(1)	COMMON EXCAVATION	CY	245,518	47,160	292,678	6,426	0	6,426	-
203(4)	MUCK EXCAVATION	CY	6,400	-	6,400	64,385	0	64,385	-
203(6A)	BORROW, TYPE A	TON	48,225	-	48,225	156,193	1,757	157,950	-
203(6B)	BORROW, TYPE B	TON	48,225	-	48,225	-	-	-	-
203(6C)	BORROW, TYPE C	TON	-	-	-	215,262	-	215,262	-
203(9)	OBLITERATION OF ROADWAY	SY	1,960	-	1,960	-	-	-	-
206(2)	FILTER BLANKET	TON	270	565	835	-	-	-	-
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	-	-	-	-	-	-	5,600
301(6)	ASPHALT TREATED BASE	TON	-	-	-	-	-	-	5,550
401(1)	ASPHALT CONCRETE, TYPE A, CLASS XX	TON	-	-	-	-	-	-	3,700
401(2)	ASPHALT CEMENT, GRADE	TON	-	-	-	-	-	-	225
401(6)	ASPHALT PRICE ADJUSTMENT	CS	-	-	-	-	-	-	ALL REQ'D
603(1)-24	24 INCH CSP	LF	-	-	-	-	53	53	-
603(1)-36	36 INCH CSP	LF	143	-	143	352	-	352	-
603(1)-42	42 INCH CSP	LF	85	-	85	-	-	-	-
603(3)-36	END SECTION FOR 36 INCH CSP	EA	4	-	4	2	-	2	-
603(3)-42	END SECTION FOR 42 INCH CSP	EA	2	-	2	-	-	-	-
605(6-12)	12 INCH PERFORATED CORRUGATED PE PIPE FOR FOR UNDERDRAIN	LF	1,120	-	1,120	-	-	-	-
611(2)	RIPRAP, CLASS I	TON	2,875	1,425	4,300	10	3	13	-
606(1)	W-BEAM GUARDRAIL	LF	1,137.5	-	1,137.5	-	-	-	-
606(11)	EXTRUDED TERMINAL (ET-2000)	EA	2	-	2	-	-	-	-
615(1)	STANDARD SIGN	SF	10.0	-	10.0	6.3	-	6.3	-
615(2)	REMOVE AND RELOCATE EXISTING SIGN	EA	-	-	-	1	-	1	-
616(2)	1-1/2 INCH DIAMETER THAW PIPE	EA	4	-	4	2	-	2	-
618(2)	SEEDING	LB	550	*	550	475	6	481	-
619(2LT)	LONG-TERM EROSION CONTROL BLANKET	SY	31,300	*	31,300	-	-	-	-
618(2P)	PERMANENT EROSION CONTROL BLANKET	SY	3,800	*	3,800	-	-	-	-
620(1)	TOPSOIL	SY	60,000	*	60,000	40,000	-	40,000	-
630(1)	GEOTEXTILE, SEPARATION	SY	29,080	-	29,080	21,785	1,951	23,736	-
633(1)	SILT FENCE	LF	2,000	-	2,000	2,750	280	3,030	-

401(1) ASPHALT CONCRETE, TYPE A, CLASS XX

BASIS OF ESTIMATES		
ITEM NO.	ITEM	ESTIMATING FACTOR
203 (6A)	BORROW, TYPE A	1.95 TON/CY
203 (6C)	BORROW, TYPE C	1.95 TON/CY
206 (2)	FILTER BLANKET	145 LBS/FT ³
301 (1)	AGGREGATE BASE COURSE	2.0 TON/CY
306 (1)	ASPHALT TREATED BASE	2.05 TON/CY
401 (1)	ASPHALT CONCRETE	2.07 TON/CY
611 (1)	RIP RAP	1.65 TON/CY

* INCLUDED IN DON YOUNG ROAD BASE BID QUANTITY

REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

ESTIMATE OF QUANTITIES

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	C2	C2

ESTIMATE OF QUANTITIES									
		PAY UNIT	BASE BID			ADDITIVE ALTERNATE #1			ADD ALT #2
ITEM NO.	PAY ITEM		DON YOUNG ROAD	DRAINAGE FLUME	TOTAL QUANTITY (BASE)	DON YOUNG ROAD	SCENIC OVERLOOK DRIVEWAY	TOTAL QUANTITY (ADD ALT #1)	DON YOUNG ROAD
640(1)	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
641(4)	TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS	CS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
642(3)	THREE PERSON SURVEY PARTY	HOURL	40	20	60	10	10	20	-
643(2)	TRAFFIC MAINTENANCE	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
643(15)-A	FLAGGING	CS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
643(25)	TRAFFIC CONTROL	CS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
644(1)	FIELD OFFICE	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
644(2)	FIELD LABORATORY	LS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
644(15)	NUCLEAR TESTING EQUIPMENT STORAGE SHED	EA	1	-	1	-	-	-	-
644(16)	STORAGE CONTAINER	EA	1	-	1	-	-	-	-
645(1)	TRAINING PROGRAM, 2 TRAINEES	CS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D
647(2)	WIDE PAD DOZER, 65-HP MIN	CS	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D	ALL REQ'D

REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

ESTIMATE OF QUANTITIES

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	D1	D3

EARTHWORK SUMMARY									
PROJECT SEGMENT	EXCAVATION					EMBANKMENT			
	COMMON EXCAVATION (C.Y.)	MUCK EXCAVATION (C.Y.)	SHRUNK EXC. USABLE AS C (C.Y.)	SHRUNK EXC. USABLE AS A (C.Y.)	WASTE (C.Y.)	SELECTED MATERIAL TYPE A (C.Y.)	SELECTED MATERIAL TYPE C (C.Y.)	TOTAL EMBANKMENT (C.Y.)	RIPRAP CLASS 1 (TONS)
DON YOUNG ROAD	245,518	6,400	206,018	3,900	18,675	28,631	39,480	68,111	2,875
DRAINAGE FLUME	47,160	0	40,321	0	2,358	0	0	0	1,425
SUBTOTAL	292,678	6,400	246,339	3,900	21,033	28,631	39,480	68,111	4,300
LESS MATERIAL FROM EX.						3,900	39,480		
LESS STOCKPILED MATERIAL									
TOTAL	292,678	6,400	246,339	3,900	21,033	24,731	0		4,300
PAY ITEM QUANTITY	292,678	6,400				48,225	76,986		4,300
	CY	CY				TON	TON		TON
ADDITIVE ALTERNATE #1									
DON YOUNG ROAD	6,426	64,385	100	6,000	64,705	79,792	110,391	193,236	10
SCENIC OVERLOOK DRIVEWAY	0	0	0	0	0	898	0	898	3
SUBTOTAL	6,426	64,385	100	6,000	64,705	80,690	110,391	194,134	13
LESS MATERIAL FROM EX.						6,000	110,391		
TOTAL	6,426	0	100	6,000	64,435	74,690	0		13
PAY ITEM QUANTITY	6,426	64,385				146,734	215,262		13
	CY	CY				TON	TON		TON

- NOTES:
1. THE ESTIMATED SHRINKAGE FACTOR FOR EXCAVATION AS TYPE C IS 0.9
 2. SHRUNK EXCAVATION, USABLE AS "A", IS ASSUMED TO COME FROM EXISTING ROADWAY AND HAS A SHRINK FACTOR OF 1.0.

REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

SUMMARY SHEET

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202(4)		
CULVERT REMOVAL SUMMARY		
CENTERLINE STATION	OFFSET	LENGTH
BASE BID		
(NIC)14+75	0' RT	50
19+75	10' RT	33
26+00	60' RT	34
45+95	95' LT	40
ADDITIVE ALTERNATE #1		
59+25	20' LT	40
59+80	15' LT	40
69+50	23' RT	47
70+00	68' RT	39

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION					
			ALASKA	SDP-0001 (370)/58168	2009	D2	D3

NOTES:
1. CULVERT LENGTHS PROVIDED IN TABLE
INCLUDE END SECTION WHERE SPECIFIED.

603(1)-24 603(1)-36 603(1)-42 603(3)-36 603(3)-42 616(2)														
CULVERT INSTALLATION SUMMARY														
SHEET	PIPE	SIZE			STATION		OFFSET		INVERT ELEVATION		END SECTION	SLOPE	MIN COVER	REMARKS
		24	36	42	FROM	TO	FROM	TO	FROM	TO				
BASE BID														
(NIC)F1	C-2		65'		16+80	16+80	30.15 LT	34.86 RT	35.34	35.04	2	0.46%	X.X'	INSTALL THAW PIPE, (NIC)
F2	C-3a			85'	27+69.22	27+74.67	40.34 LT	43.90 RT	76.00	75.62	2	0.45%	4.3'	INSTALL THAW PIPE
F2	C-3b		78'		27+76.67	27+81.65	34.05 LT	43.45 RT	79.50	75.62	2	5.00%	1.9'	INSTALL THAW PIPE
ADDITIVE ALTERNATE #1														
F4	C-6		107'		59+78	59+98	40.47 LT	64.25 RT	139.31	133.08	2	5.85%	2.5'	INSTALL THAW PIPE, OUTLET PROTECTION
F5	C-7		245'		69+67	70+11	97.02 LT	143.23 RT	149.70	141.94		3.17%	18.0'	INSTALL THAW PIPE, OUTLET PROTECTION
F8	C-11	53'			OD 12+73	OD 12+77	24.49 LT	27.47 RT	142.81	141.72		2.10%	1.9'	OUTLET PROTECTION

OD = OVERLOOK DRIVEWAY

REVIEW SET
9/1/09

606(1) 606(11)						
GUARDRAIL INSTALLATION SUMMARY						
STATION TO STATION			OFFSET		W BEAM 606(1)	ET-2000 END TERMINAL 606(11)
			LT	RT		
18+45.00	TO	30+54.11		17'	1137.5'	2

1. OFFSET IS TO FACE OF GUARDRAIL
2. W BEAM LENGTH DOES NOT INCLUDE END TERMINAL AT EITHER END.

630(1)					
GEOTEXTILE, SEPARATION					
BASE BID			ADDITIVE ALTERNATE #1		
CENTERLINE STATION	WIDTH (FT)	AREA (SY)	CENTERLINE STATION	WIDTH (FT)	AREA (SY)
11+00 TO 20+00	55	5,500	52+00 TO 65+00	70	10,111
20+00 TO 28+00	55	4,890	65+00 TO 80+00	70	11,667
28+00 TO 31+00	70	2,340	OD 10+50 TO 13+00	55	1,948
31+00 TO 45+00	70	10,900	CULVERT OUTLETS	-	10
45+00 TO 52+00	70	5,450			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

SUMMARY SHEET

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615(1) 615(2)

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	D3	D3

STANDARD SIGN SUMMARY														
SHEET NUMBER	SIGN NO	STATION	OFFSET		TYPE	LEGEND	SIZE (in)		AREA SQ FT	POST		FACING TRAFFIC	TOTAL QUANTITY	REMARKS
			LT	RT			W	H		SIZE	TYPE			
H1	1	24+00	-	20	R2-1		24	30	5.0	1-2.5"	PST-C	S	1	-
H1	2	75+50	31	-	R2-1		24	30	5.0	1-2.5"	PST-C	W	1	-
						BASE BID SIGN AREA			10.0					
H1	3	66+50	-	31	R1-1		30	30	6.3	1-2.5"	PST-C	E	1	ADDITIVE ALTERNATE #1
						ADD ALT #1 SIGN AREA			6.3					
H1	4	75+00	-	31	W2-1					1-2.5"	PST-C	E	1	REMOVE AND RELOCATE EXISTING SIGN

- ABBREVIATIONS
- PST-C= PERFORATED STEEL TUBE
WITH CONCRETE FOUNDATION
PER STD DTL S-30.03
- NOTES:
1. OFFSET IS TO APPROXIMATE CENTER
OF SIGN POST, INSTALL SIGN WITH
CLEARANCES AS SHOWN IN STD DTL
S-05.01 OR AS INDICATED IN THE
SIGNING NOTES BELOW.
2. SIGN MOUNTING HEIGHT SHALL BE (8)
FEET ABOVE EDGE OF ROAD TO PROVIDE
FOR FUTURE PAVING THICKNESS.

633(1)

SILT FENCE			
PROJECT SEGMENT	OFFSET	LENGTH	REMARKS
DON YOUNG ROAD	RT.	2,000	BASE BID
DON YOUNG ROAD	RT.	2,750	ADDITIVE ALTERNATE #1
SCENIC OVERLOOK	RT.	280	ADDITIVE ALTERNATE #1

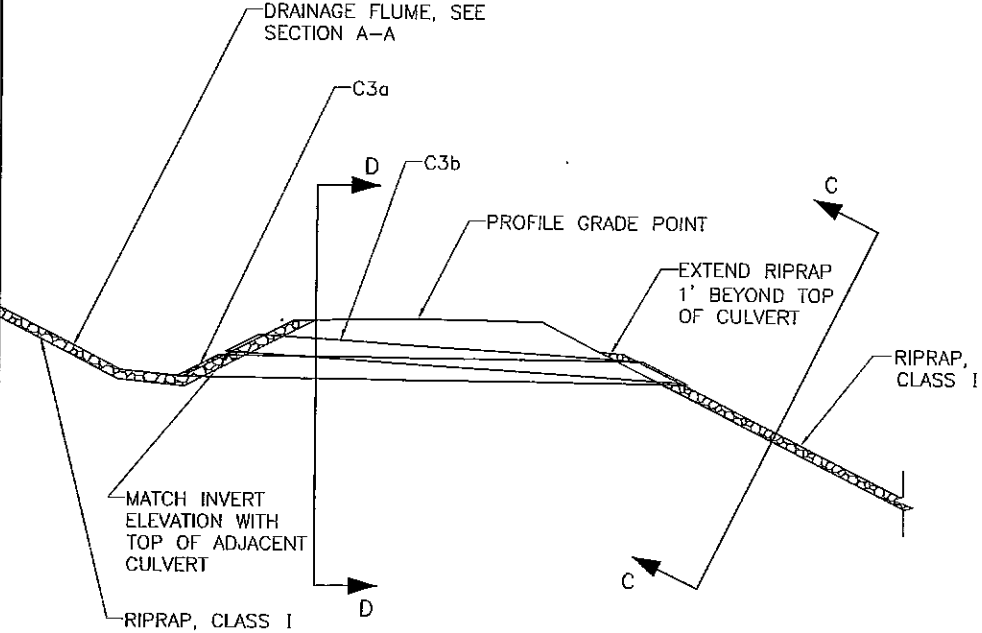
REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

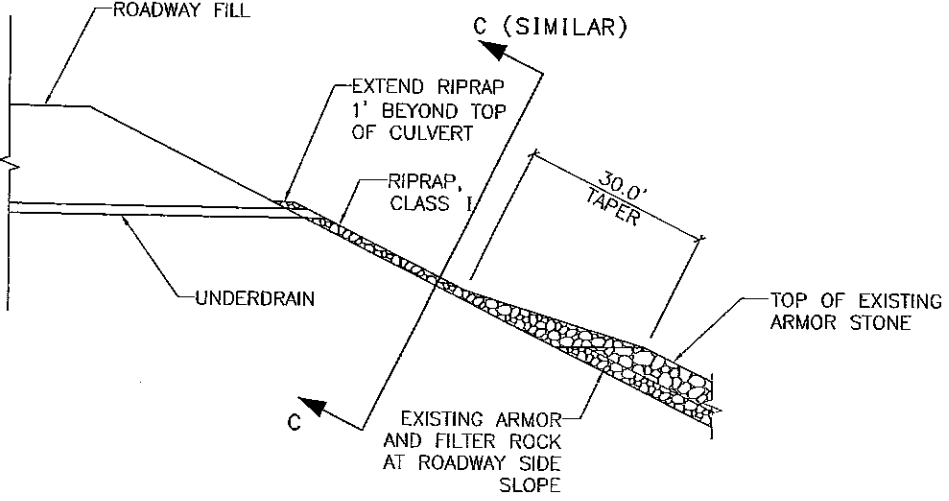
SUMMARY SHEET

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	E1	E3



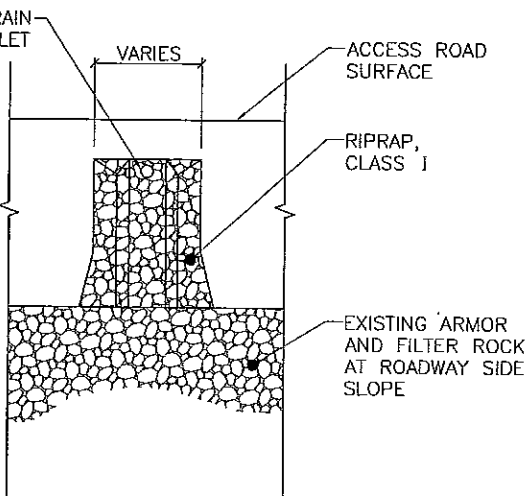
PROFILE

FLUME OUTFALL DETAIL



PROFILE

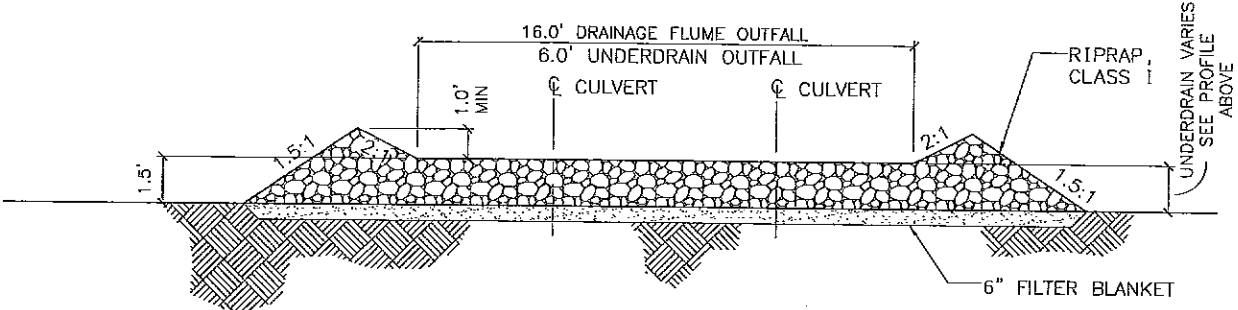
UNDERDRAIN OUTFALL DETAIL



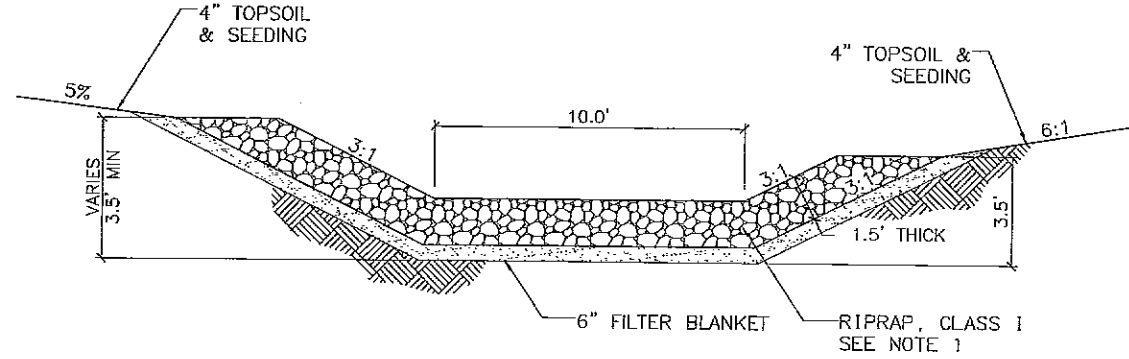
ELEVATION

REVIEW SET

9/1/09



SECTION C-C

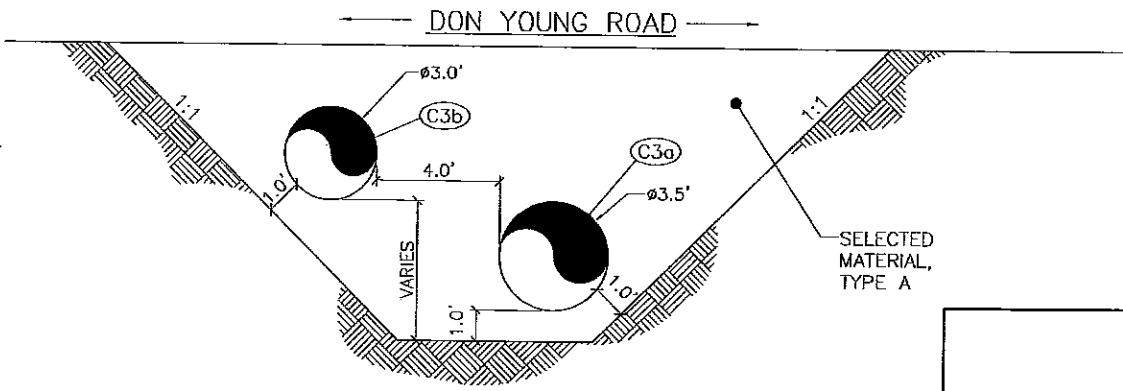


DRAINAGE FLUME SECTION A-A

DRAINAGE FLUME STA 10+28.94 - 12+80

SIMILAR DF STA 12+80 - 13+80

SEE SHEET F8



FLUME BASIN CULVERT SECTION D-D

DON YOUNG ROAD STA 28+10

SEE SHEET F8

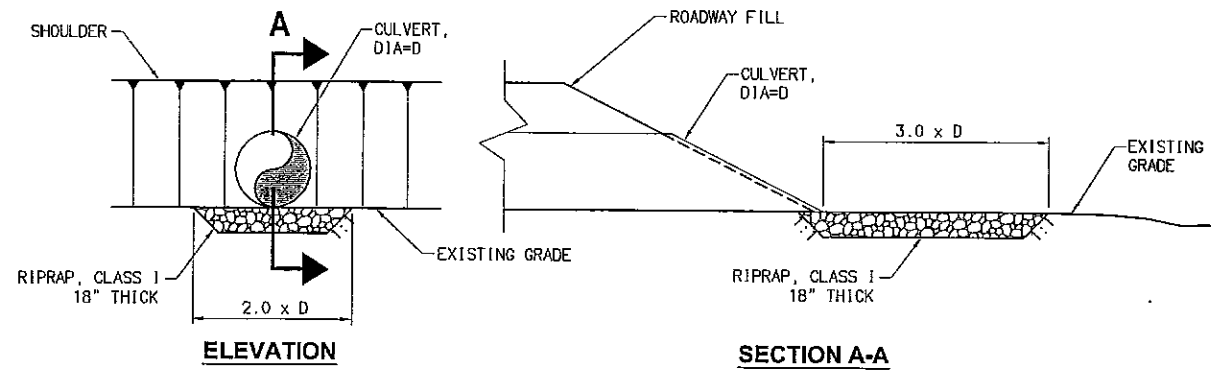
- SHEET NOTES:**
1. KEY TOP LAYER OF RIPRAP TO BE AS SMOOTH AS POSSIBLE.
 2. SEE SHEET F8 FOR DRAINAGE FLUME PLAN & PROFILE.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

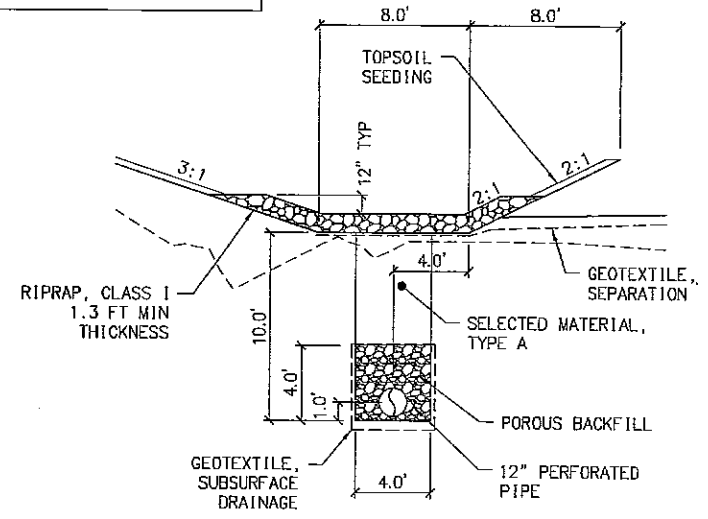
DRAINAGE FLUME DETAILS
(BASE BID)

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	E2	E3

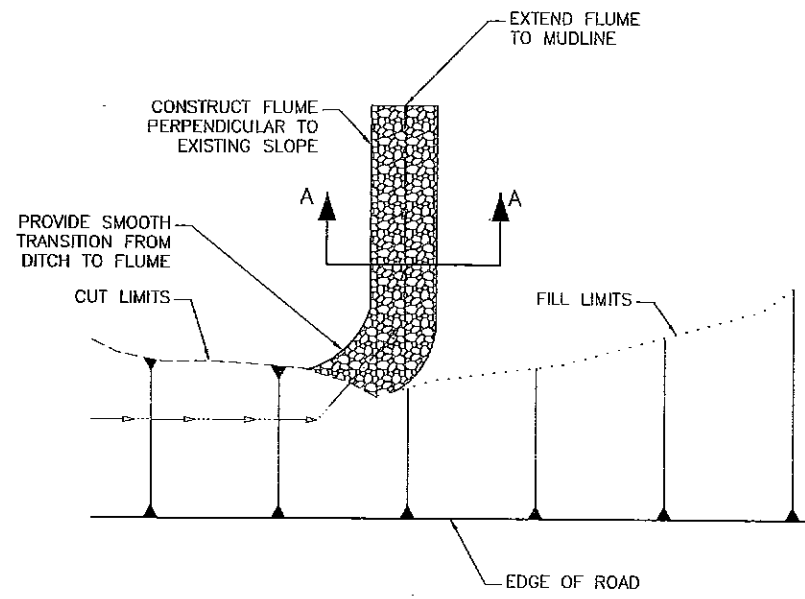


CULVERT OUTLET PROTECTION

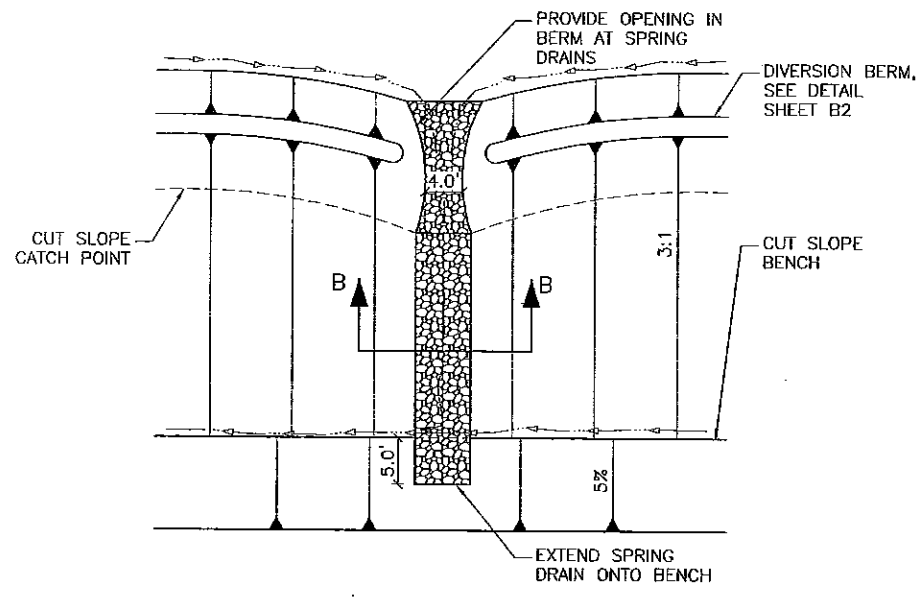
REVIEW SET
9/1/09



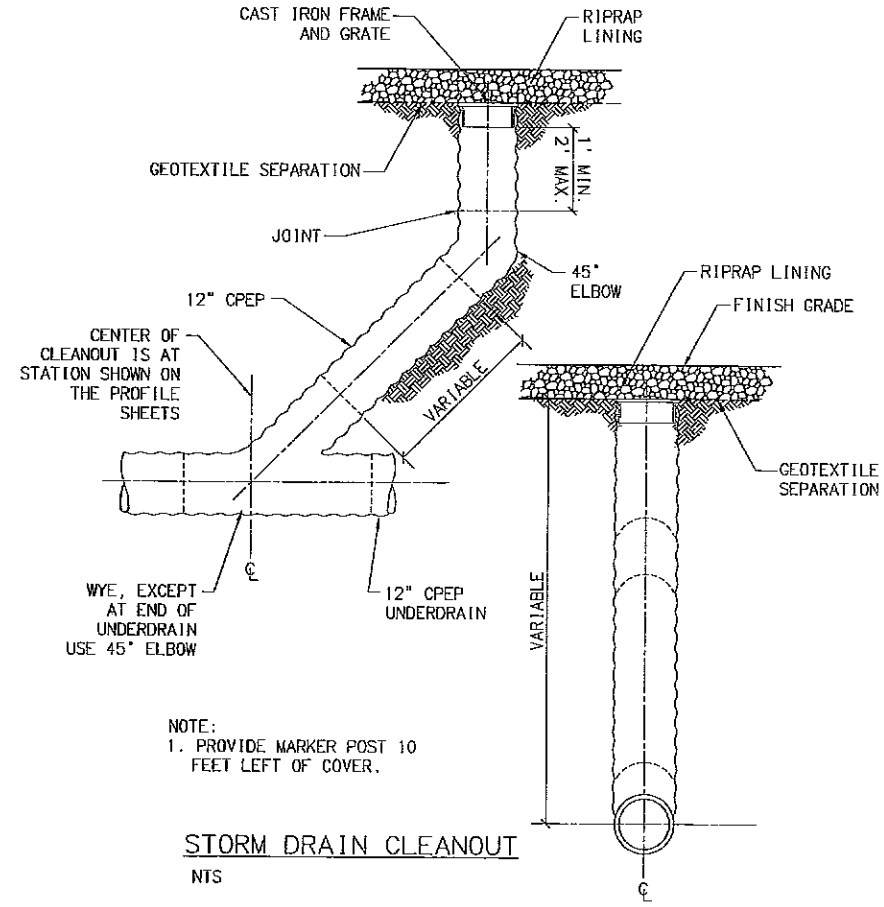
UNDERDRAIN



CUT / FILL TRANSITION FLUME

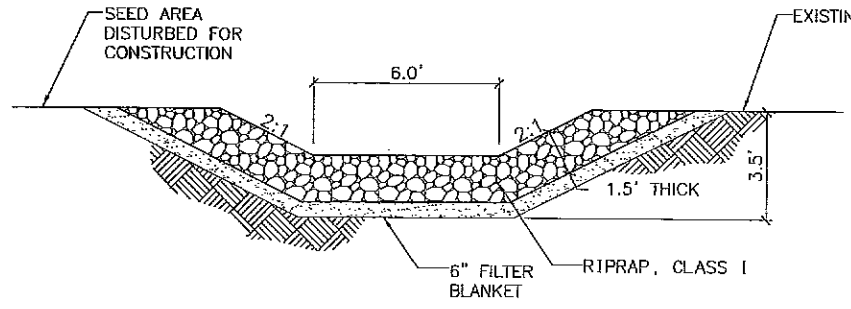


SPRING DRAIN AT BERM

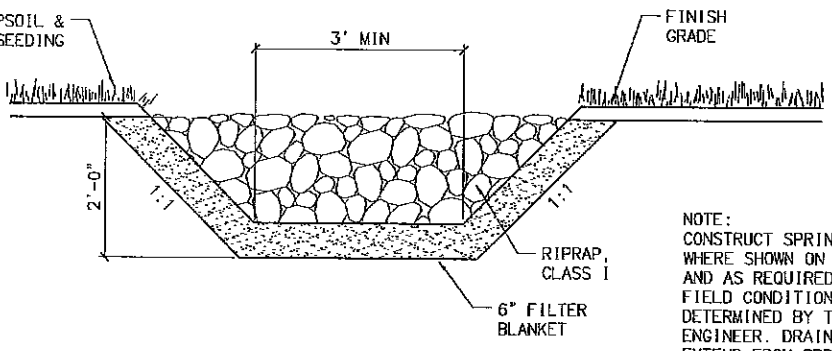


NOTE:
1. PROVIDE MARKER POST 10 FEET LEFT OF COVER.

STORM DRAIN CLEANOUT
NTS



CUT/FILL TRANSITION FLUME
SECTION A-A



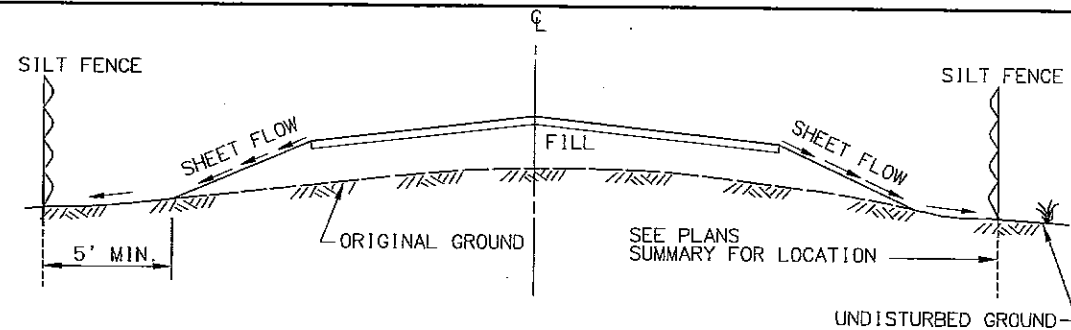
SPRING DRAIN
SECTION B-B

NOTE:
CONSTRUCT SPRING DRAINS WHERE SHOWN ON PLANS AND AS REQUIRED BY FIELD CONDITIONS AS DETERMINED BY THE ENGINEER. DRAIN SHALL EXTEND FROM SPRING TO NEAREST BENCH, OR AS SHOWN ON THE PLANS.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

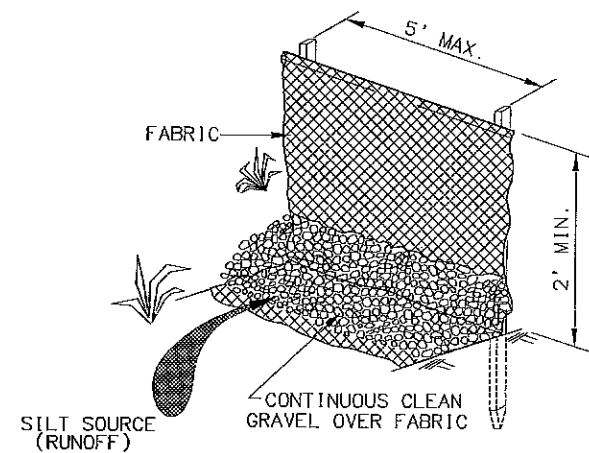
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

DETAILS
(BASE BID)

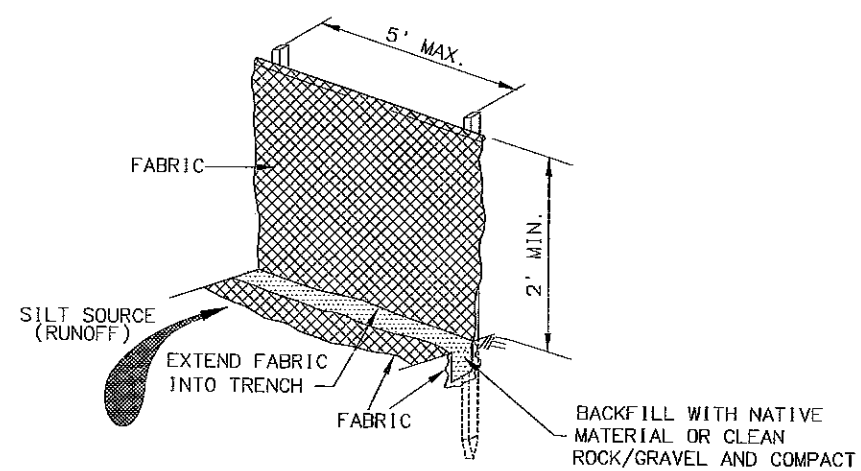


GENERAL NOTES:

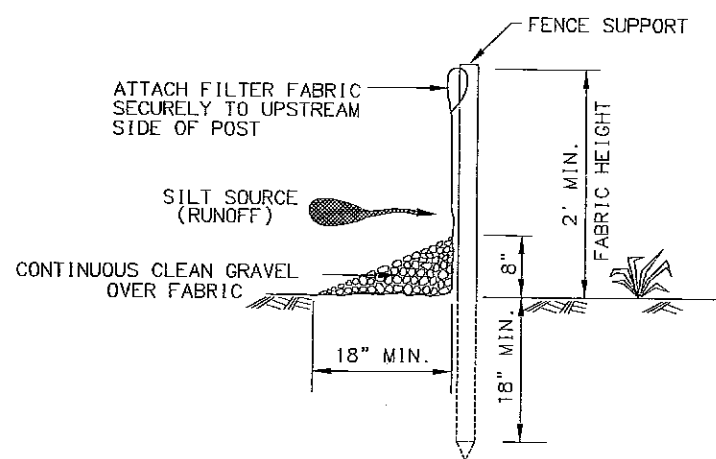
1. INSTALLATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE ADOT/PF SEDIMENT AND EROSION CONTROL MANUAL (<http://www.dot.state.ak.us>).
2. SILT FENCE FABRIC SHALL BE OVERLAPPED 6" AT FENCE SUPPORTS.
3. SILT FENCE FABRIC SHALL BE TAUT, NOT LOOSE OR FOLDED.
4. THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
5. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



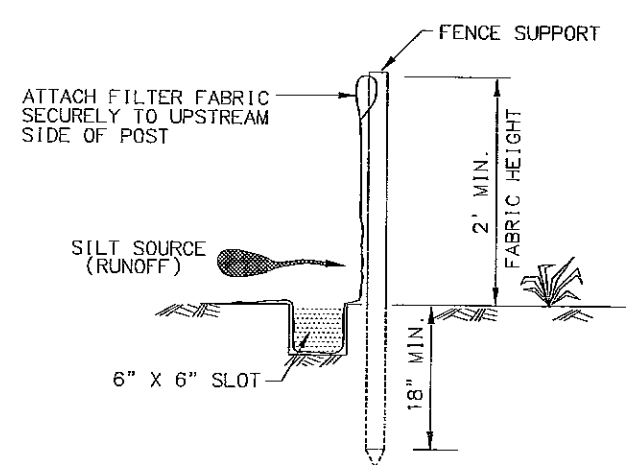
BACKFILL ALTERNATE



TRENCH ALTERNATE



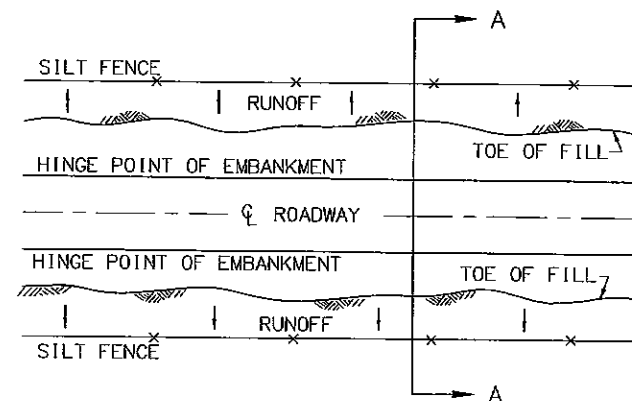
BACKFILL CROSS SECTION



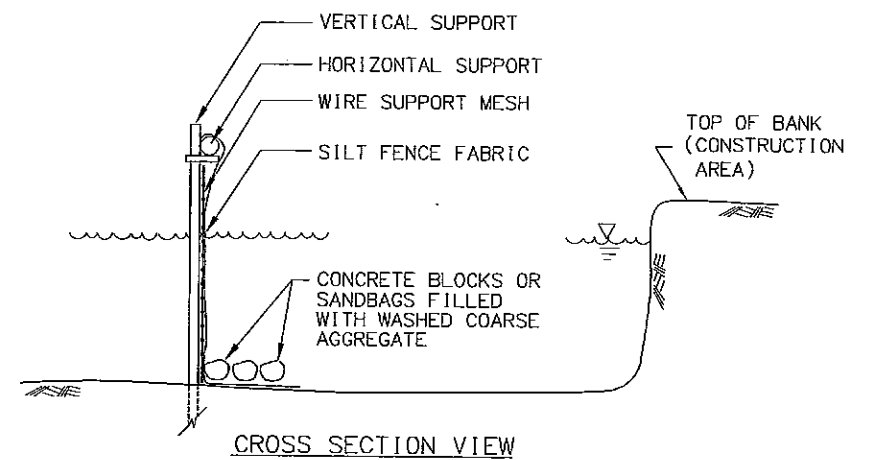
TRENCH CROSS SECTION

FOR USE ON LAND

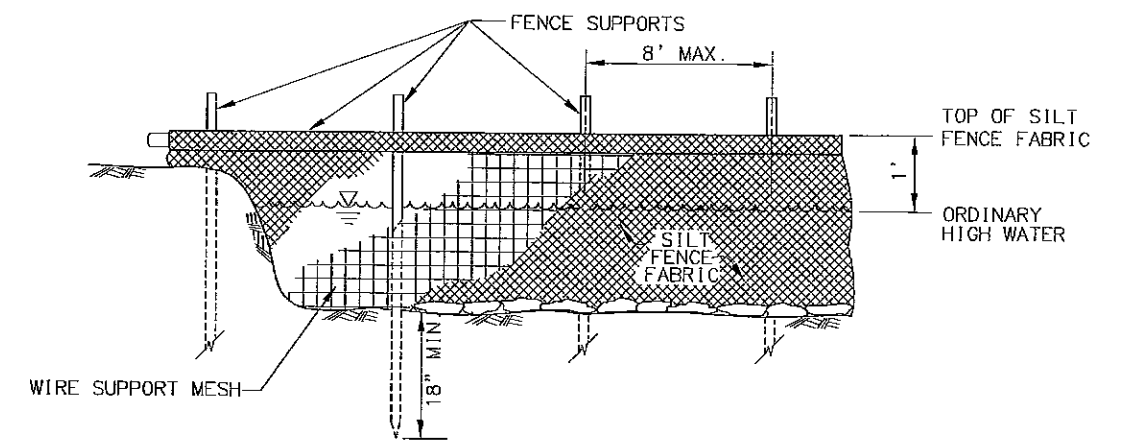
1. FENCE SHALL BE PLACED AT LEAST 5' FROM THE TOE OF EMBANKMENT OR EXCAVATION AREAS, OR AS DIRECTED BY THE ENGINEER.
2. ACCUMULATION OF SEDIMENT BEHIND SILT FENCE SHALL BE REMOVED WHEN DEPTH REACHES 12". REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



PLAN VIEW



CROSS SECTION VIEW



TYPICAL

REVIEW SET
9/1/09

FOR USE IN WATER

1. SECURE THE ENDS OF SILT FENCE TO THE BANK.
2. SILT FENCE FRAMEWORK SHALL BE NOMINAL 2" X 2" WOOD, 3" DIAMETER WOOD, #6 REBAR WITH PVC SLEEVES, 3/4" IRON PIPE, OR OTHER POSTS CAPABLE OF SUPPORTING THE INSTALLATION, AS APPROVED BY THE ENGINEER.
3. THE WIRE MESH SUPPORT SHALL BE WWF 6" X 6", W1 X W1 OR AS APPROVED BY THE ENGINEER.
4. FENCE ANCHORED IN STANDING WATER SHALL HAVE THE BOTTOM ANCHORED WITH SANDBAGS OR CONCRETE BLOCKS AS DETAILED ABOVE.

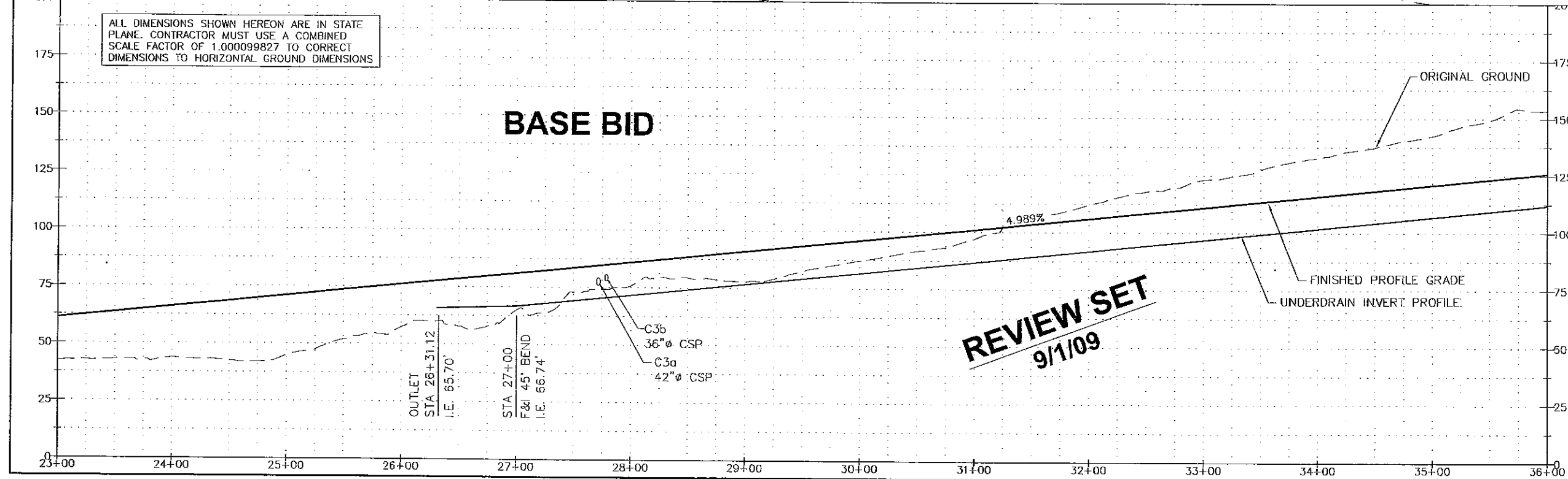
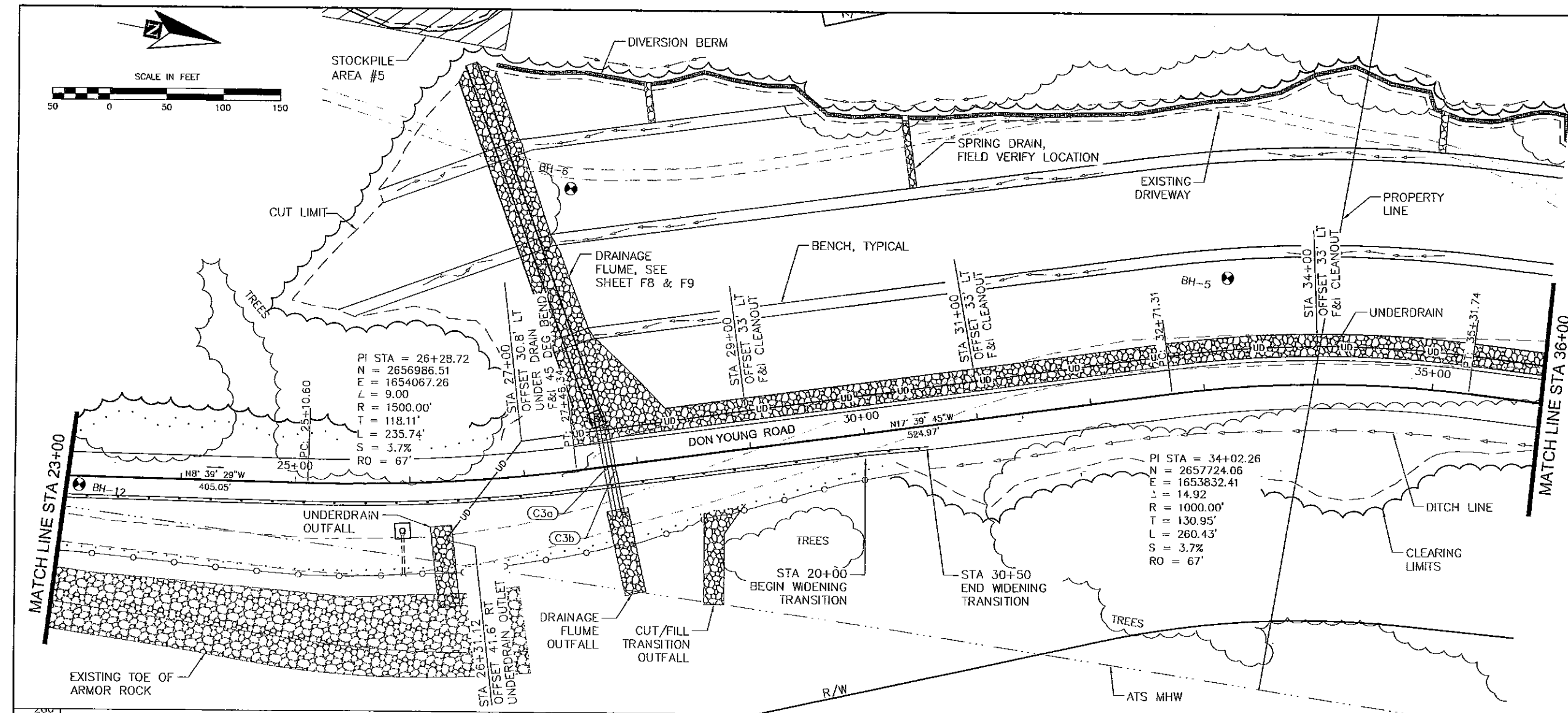
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	E3	E3

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

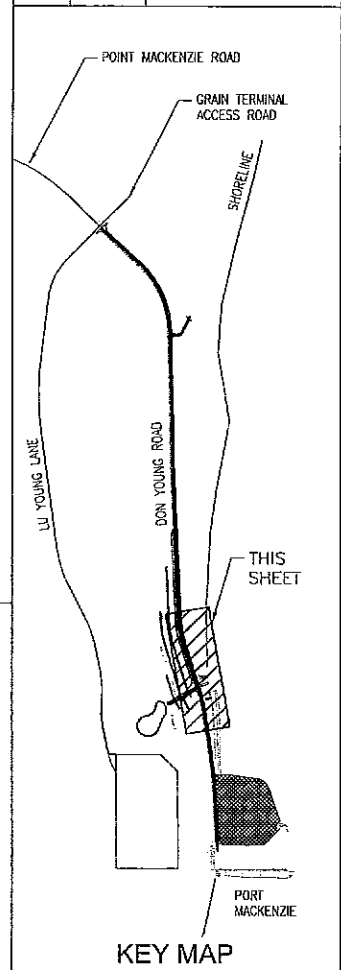
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

SILT FENCE DETAIL

J:\2006\081010 Port Mackenzie Access Road\Drawings\F1-F13 - Plan and Profile.dwg, F2, 9/21/2009 8:57:55 AM, paul, 1:2



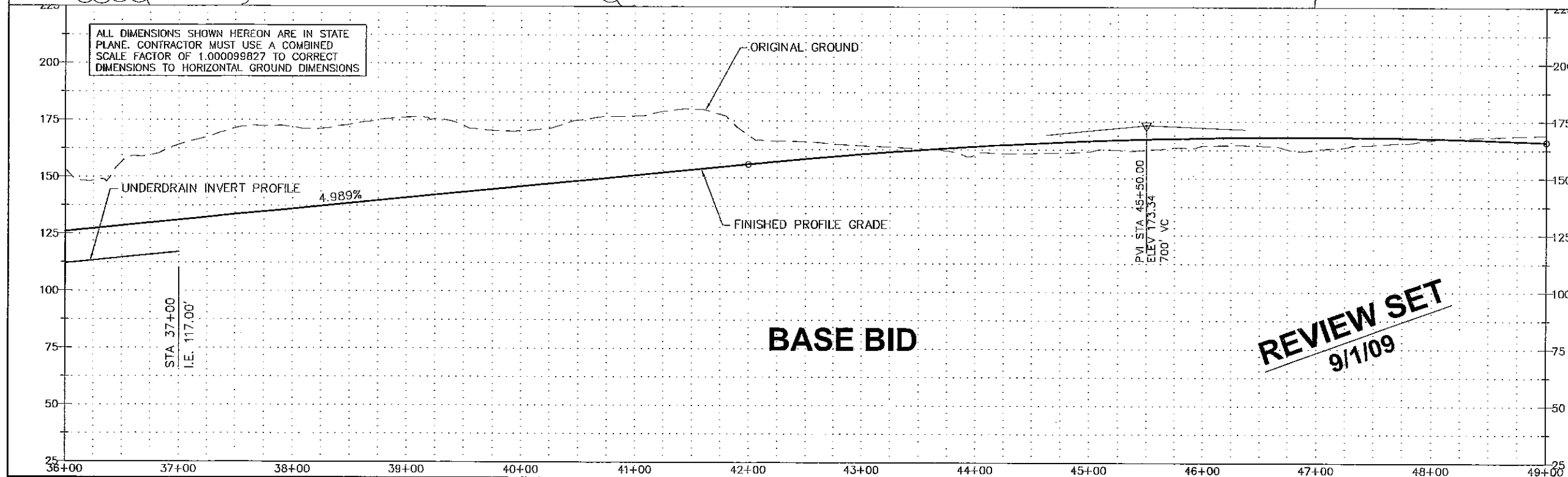
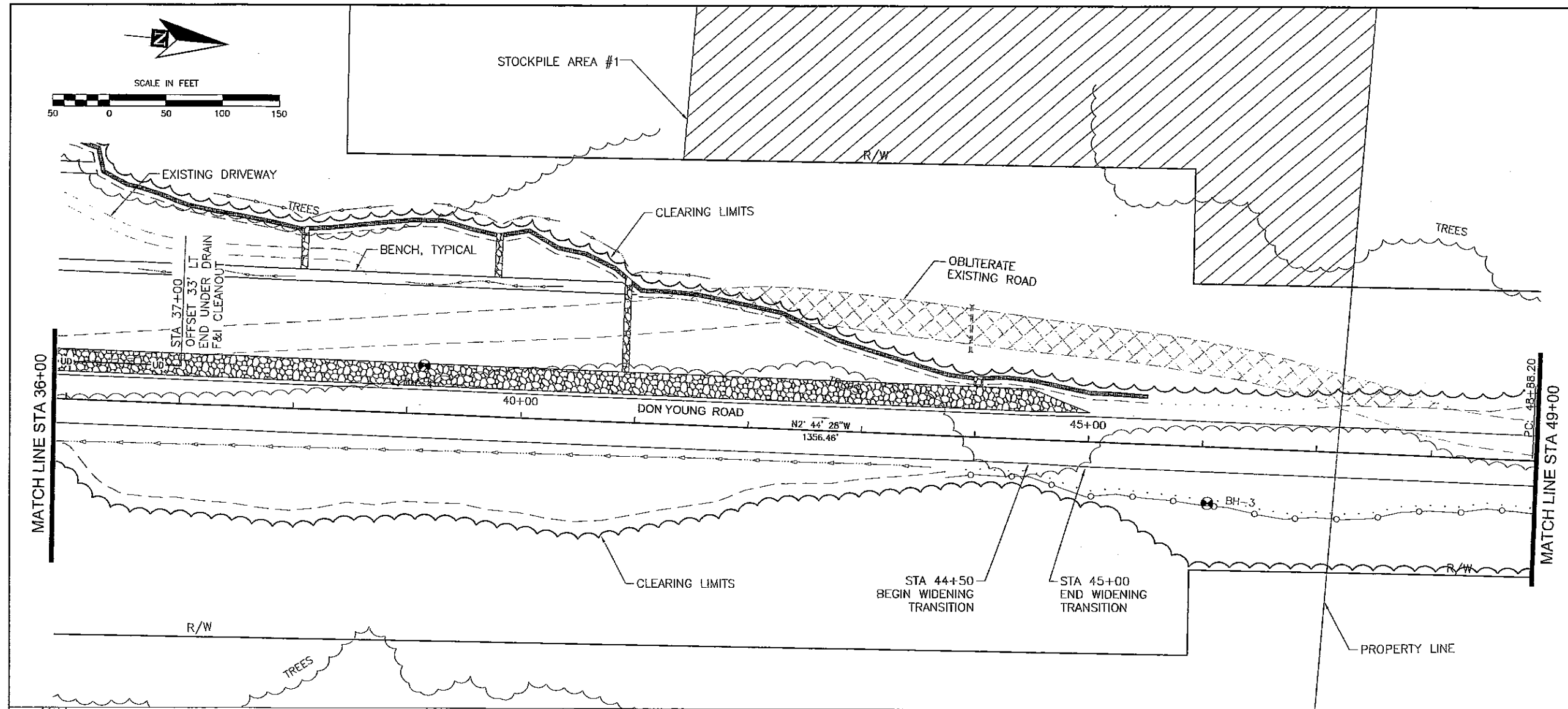
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STATE		YEAR	
ALASKA		2009	
PROJECT DESIGNATION			
SDP-0001 (370)/58168			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION
DON YOUNG ROAD
PLAN & PROFILE

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SHEET NO.	TOTAL SHEETS
F3	F9
STATE	YEAR
ALASKA	2009

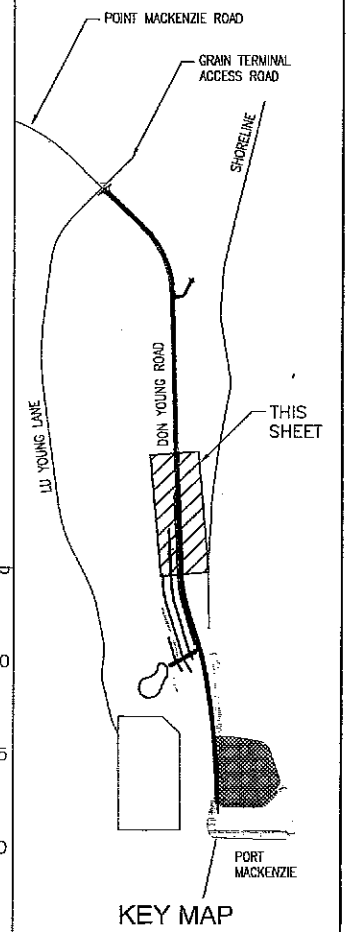
PROJECT DESIGNATION
SDP-0001 (370)/58168

ADDENDUM NO.

ATTACHMENT NO.

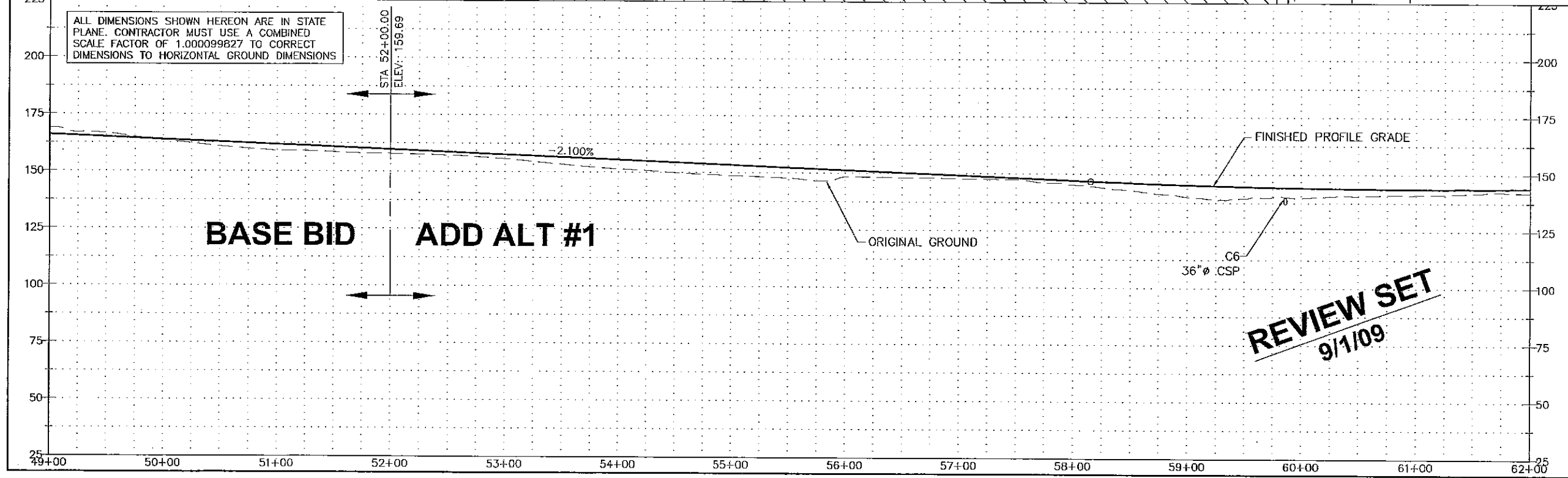
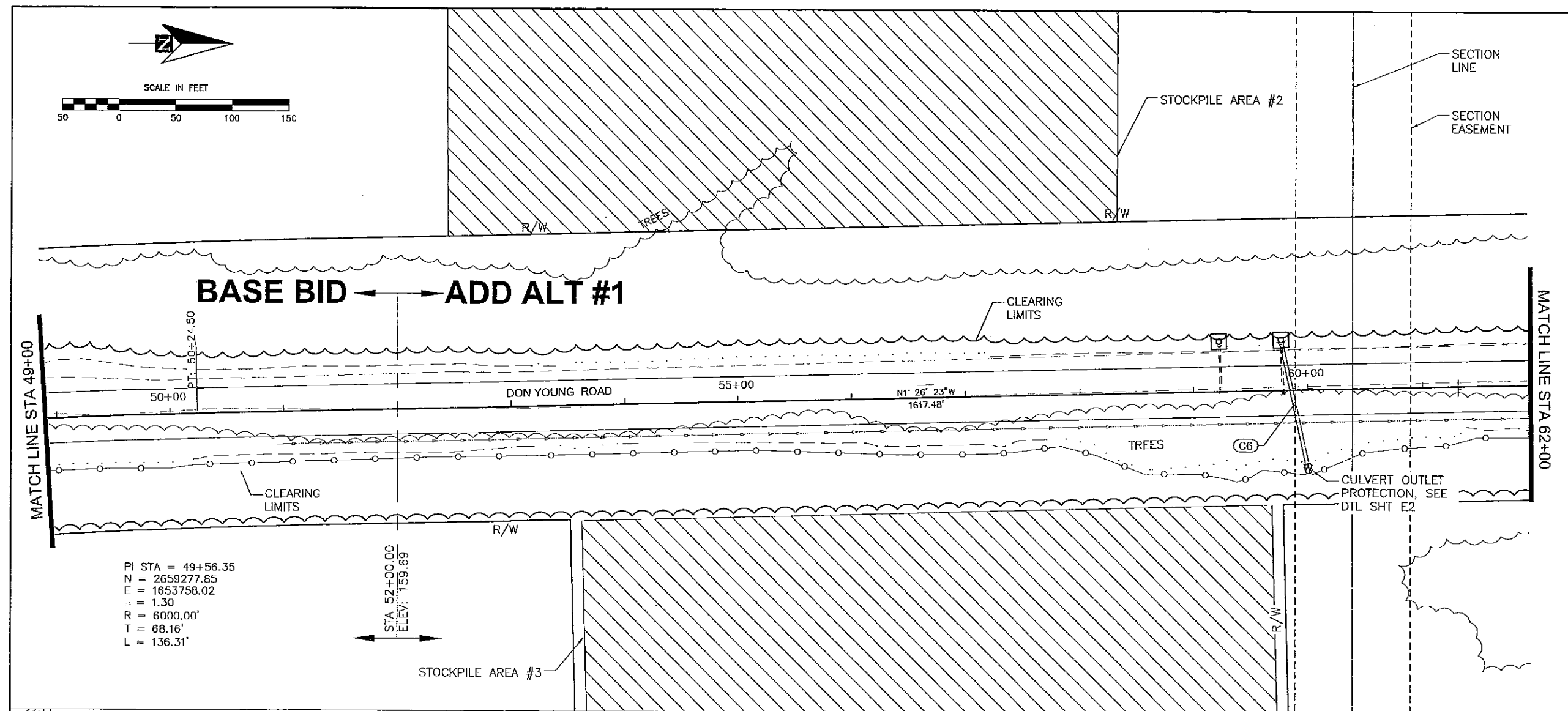
REVISIONS

NO.	DATE	DESCRIPTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION
DON YOUNG ROAD
PLAN & PROFILE

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SHEET NO.	TOTAL SHEETS
F4	F9
STATE	YEAR
ALASKA	2009

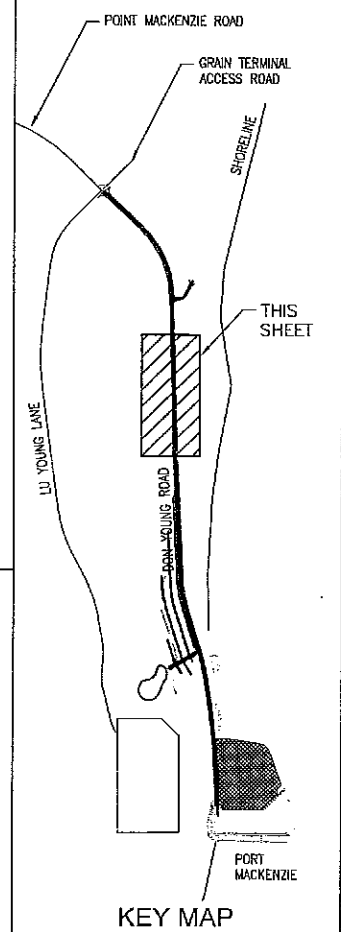
PROJECT DESIGNATION
SDP-0001 (370)/58168

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

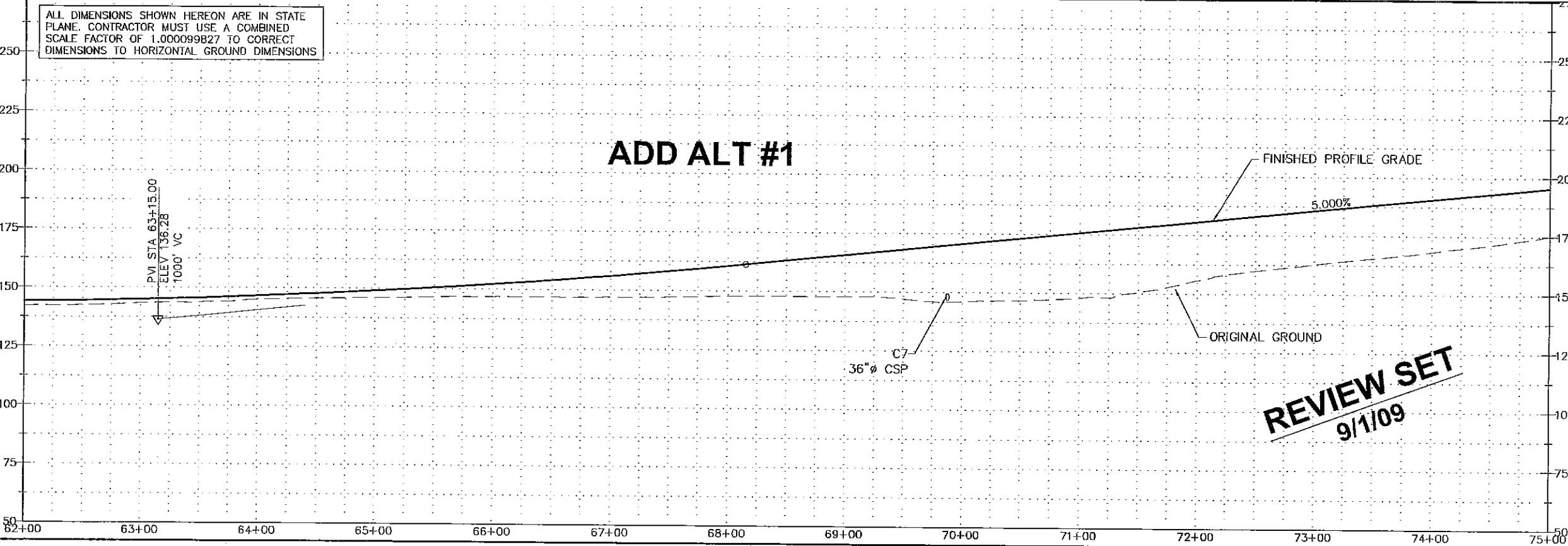
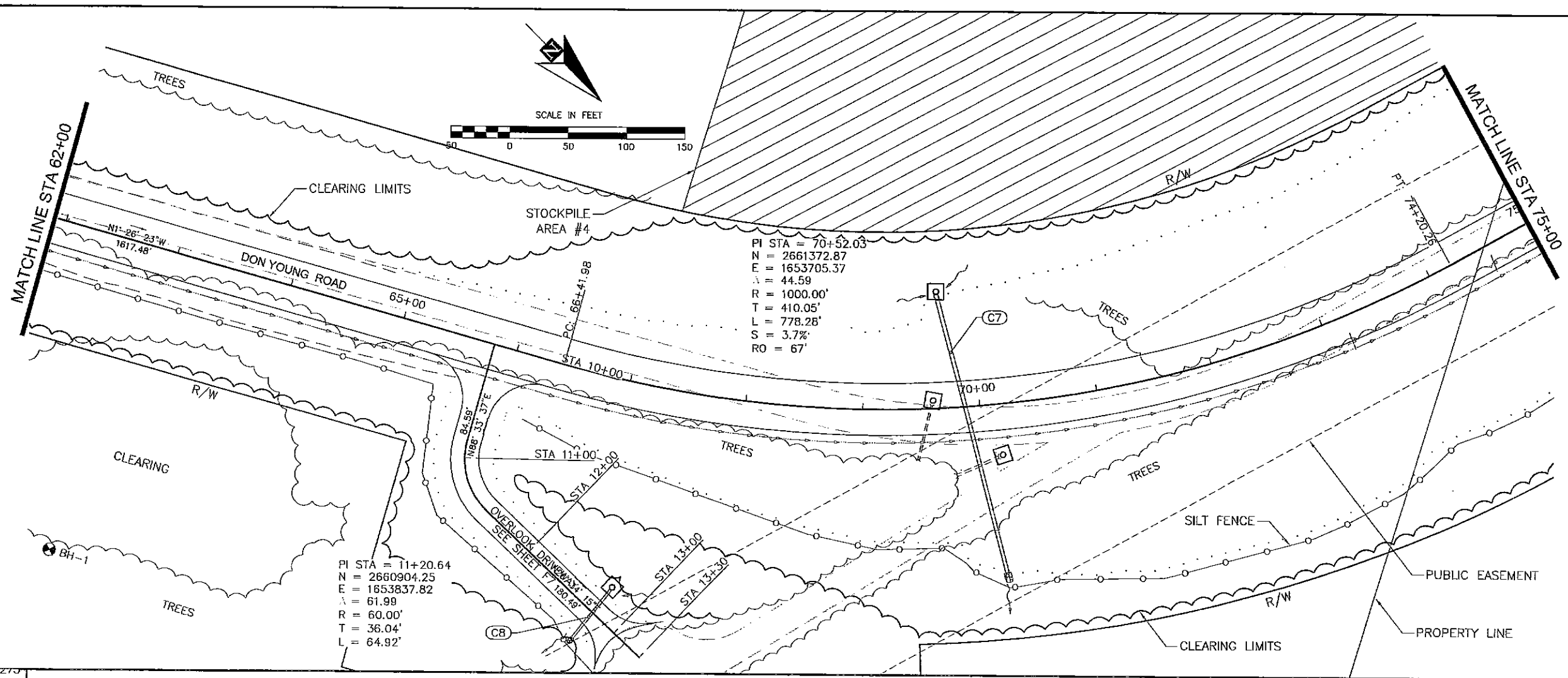
NO.	DATE	DESCRIPTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION

DON YOUNG ROAD
PLAN & PROFILE



SHEET NO.	TOTAL SHEETS	
F5	F9	
STATE	YEAR	
ALASKA	2009	
PROJECT DESIGNATION		
SDP-0001 (370)/58168		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

POINT MACKENZIE ROAD

GRAIN TERMINAL ACCESS ROAD

SHORELINE

THIS SHEET

PUBLIC EASEMENT

PROPERTY LINE

CLEARING LIMITS

R/W

TREES

OVERLOOK DRIVEWAY

STOCKPILE AREA #4

DON YOUNG ROAD

MATCH LINE STA 62+00

MATCH LINE STA 75+00

PI STA = 70+52.03

N = 2661372.87

E = 1653705.37

A = 44.59

R = 1000.00'

T = 410.05'

L = 778.28'

S = 3.7%

RO = 67'

PI STA = 11+20.64

N = 2660904.25

E = 1653837.82

A = 61.99

R = 60.00'

T = 36.04'

L = 64.92'

SCALE IN FEET

0 50 100 150

27.3

250

225

200

175

150

125

100

75

50

62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70+00 71+00 72+00 73+00 74+00 75+00

FINISHED PROFILE GRADE

5.000%

ORIGINAL GROUND

36" CSP

ADD ALT #1

REVIEW SET 9/1/09

KEY MAP

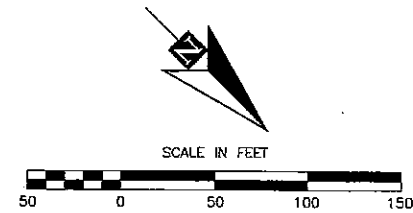
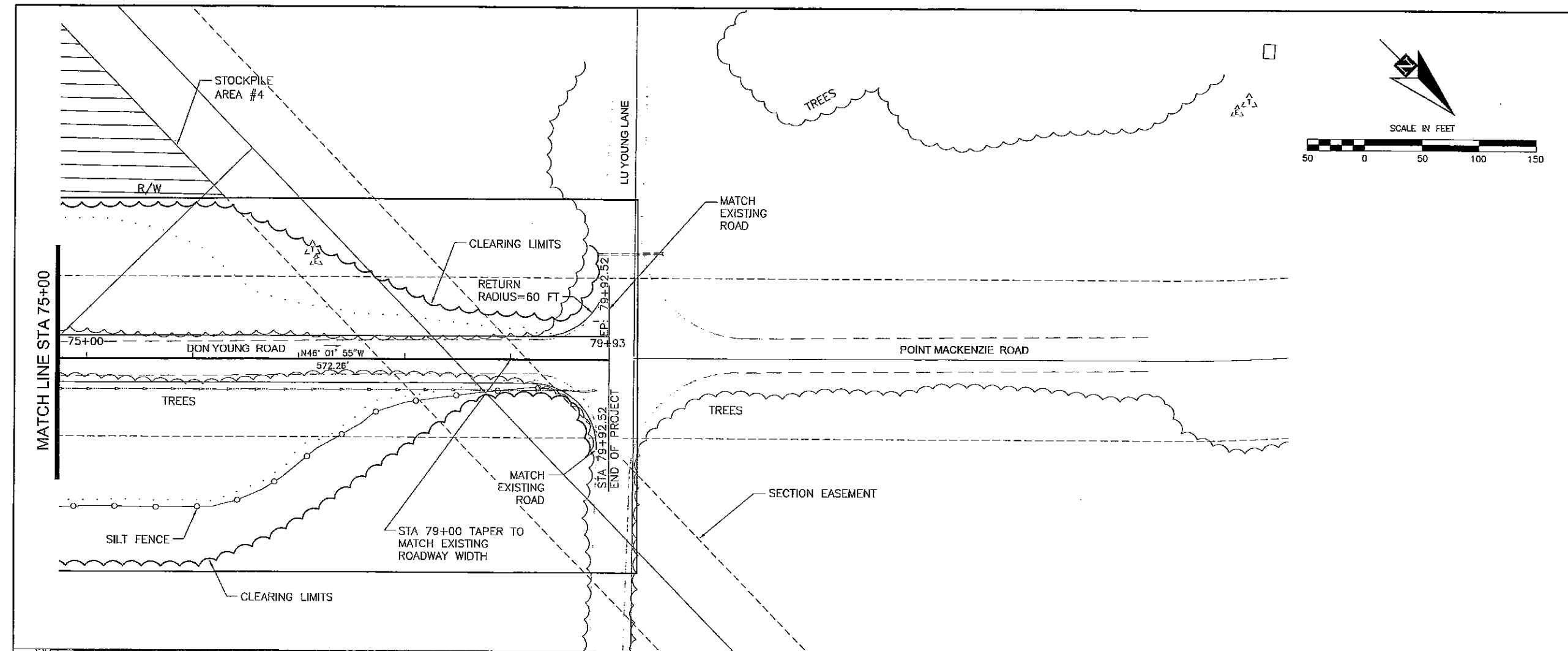
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION

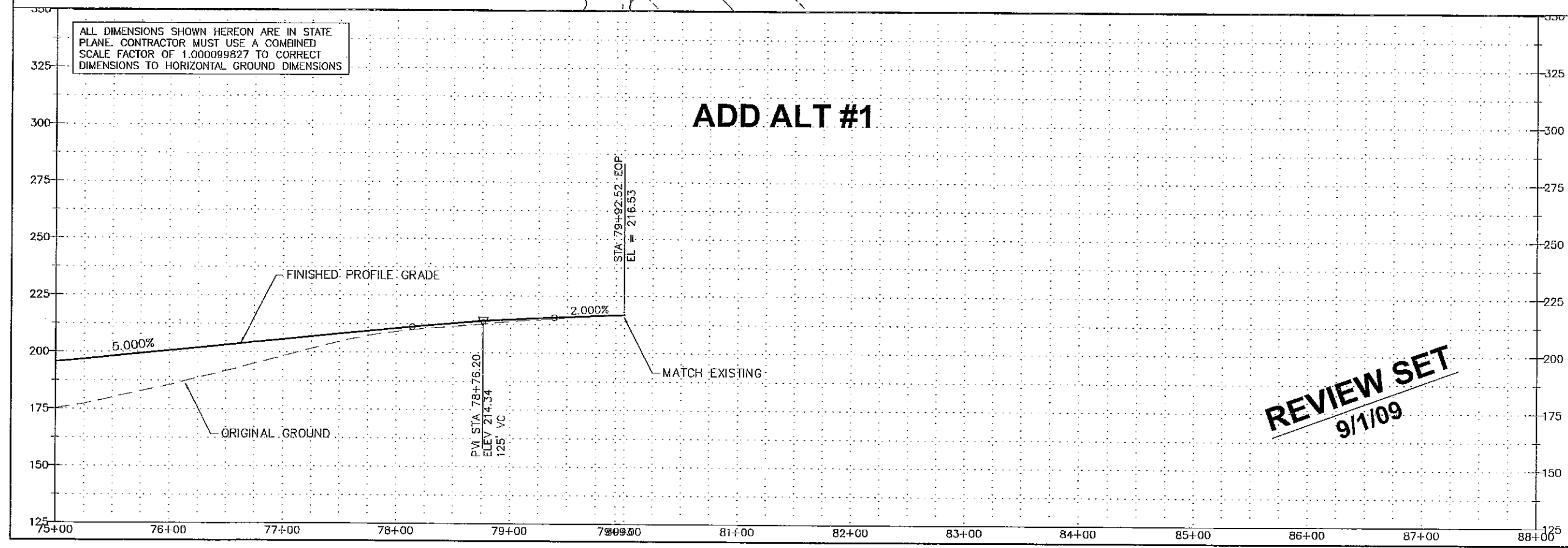
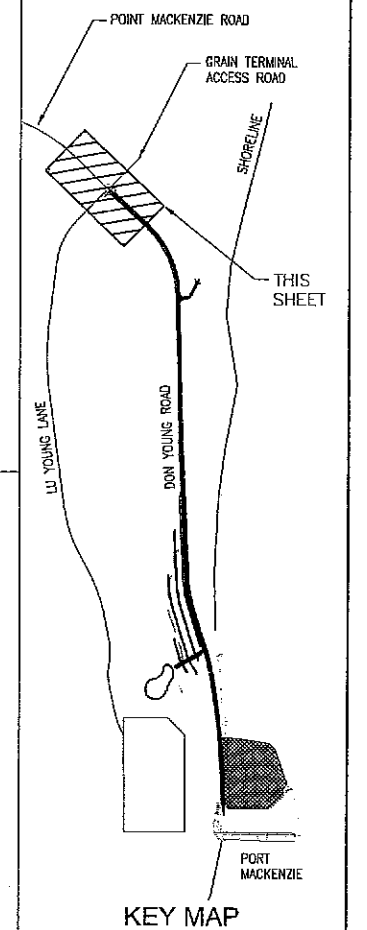
DON YOUNG ROAD
PLAN & PROFILE

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SHEET NO.		TOTAL SHEETS	
F6		F9	
STATE		YEAR	
ALASKA		2009	
PROJECT DESIGNATION			
SDP-0001 (370)/58168			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

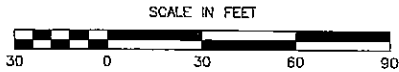


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

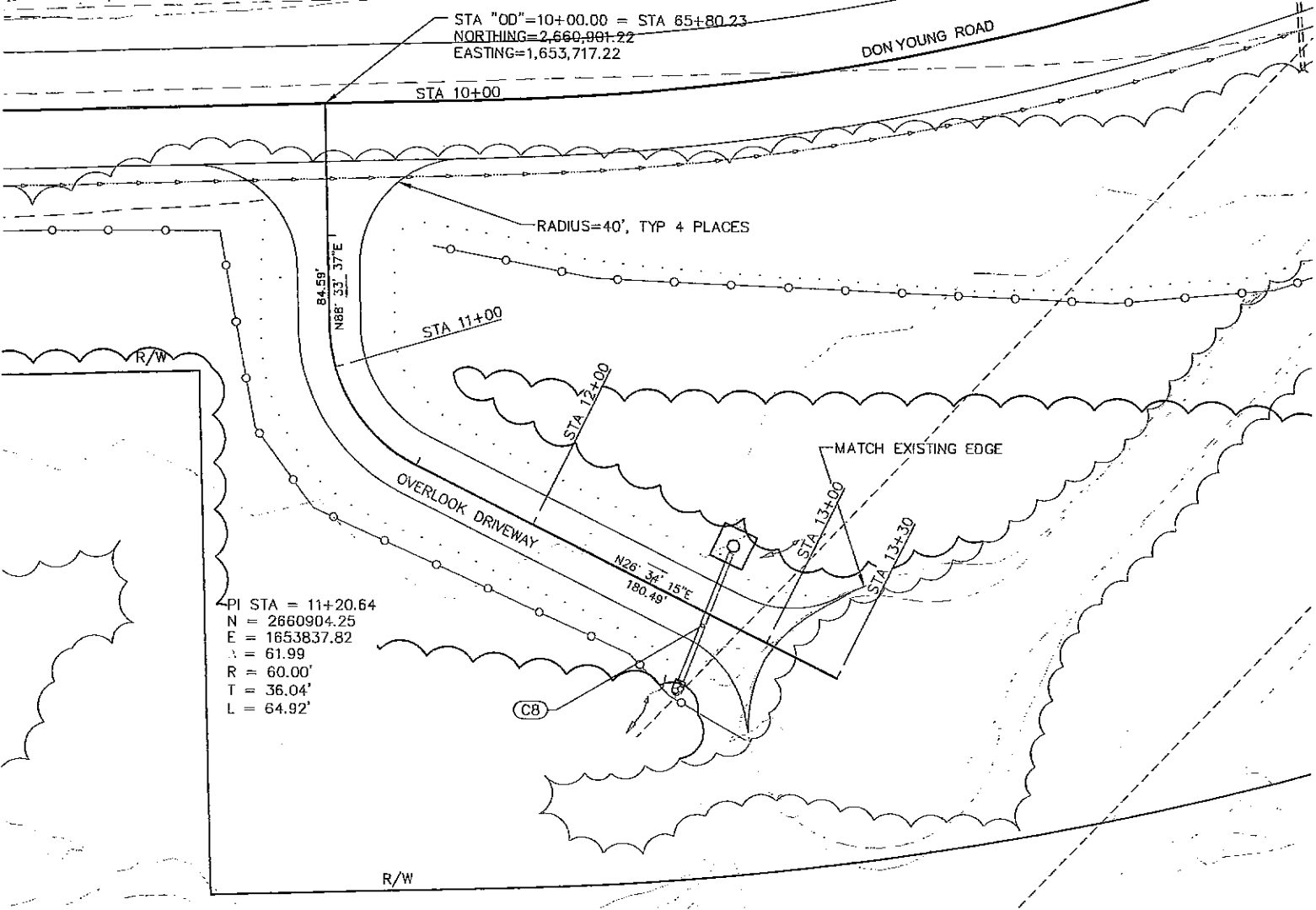
PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION

DON YOUNG ROAD
PLAN & PROFILE

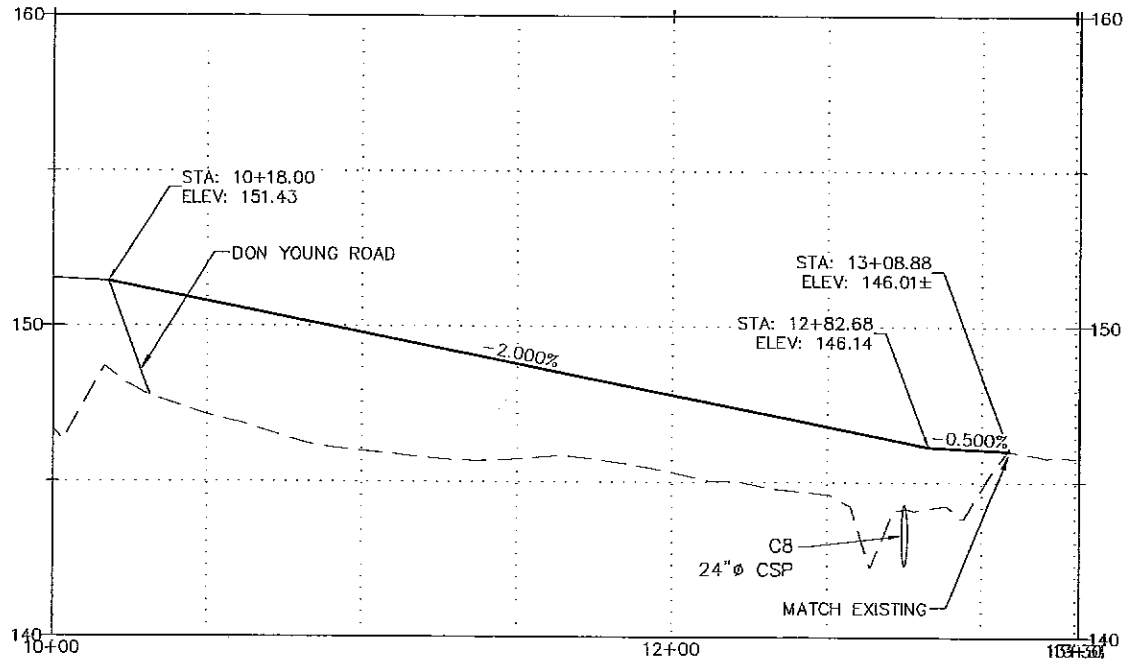
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	F7	F9



ALL DIMENSIONS SHOWN HEREON ARE IN STATE PLANE. CONTRACTOR MUST USE A COMBINED SCALE FACTOR OF 1.000099827 TO CORRECT DIMENSIONS TO HORIZONTAL GROUND DIMENSIONS



OVERLOOK DRIVEWAY PLAN



OVERLOOK DRIVEWAY PROFILE

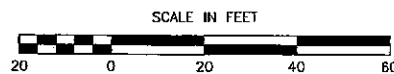
ADD ALT #1

REVIEW SET
9/1/09

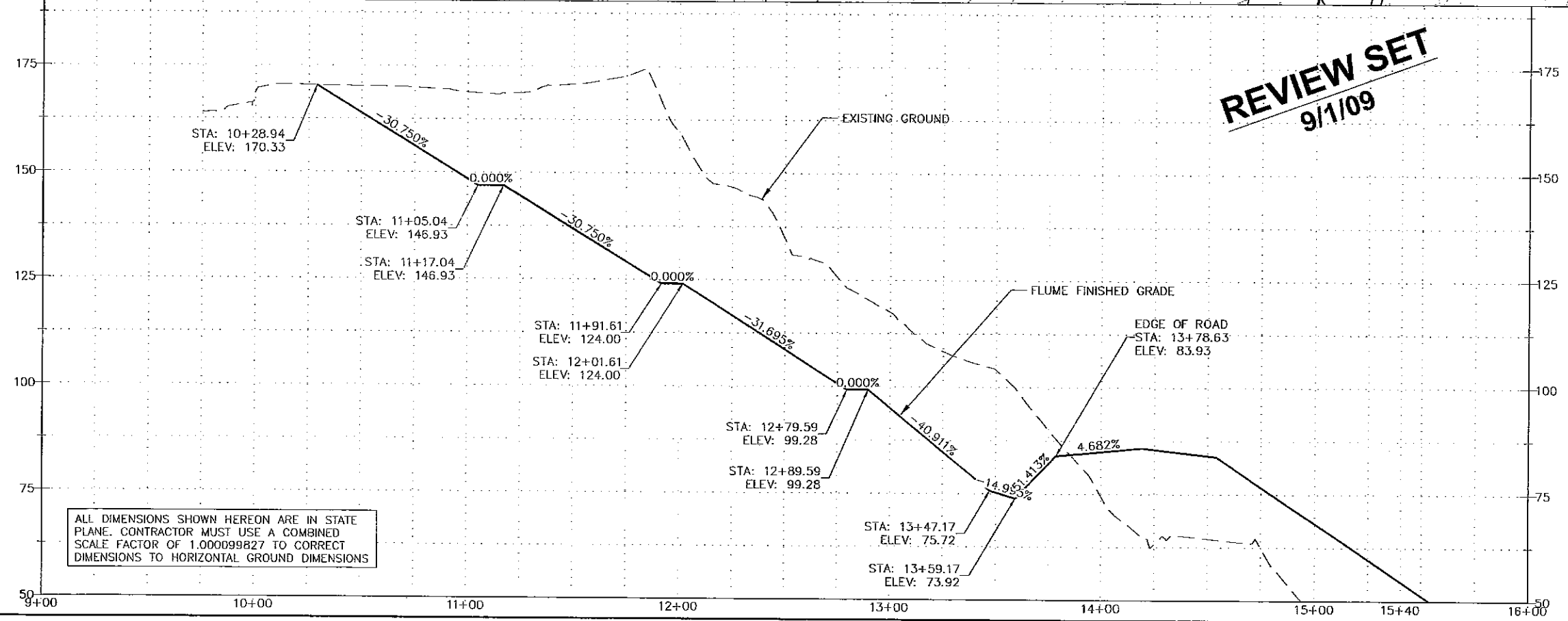
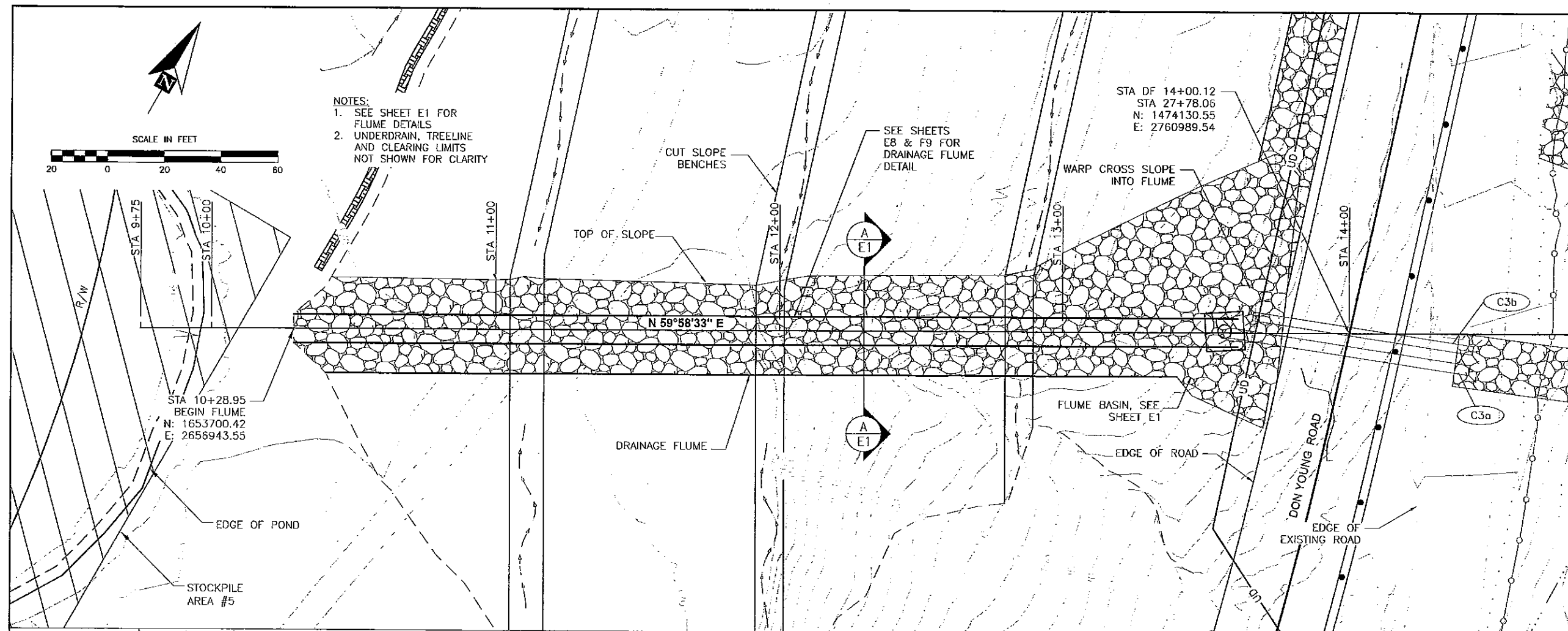
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

ADDITIVE ALTERNATE #1
OVERLOOK DRIVEWAY PLAN & PROFILE

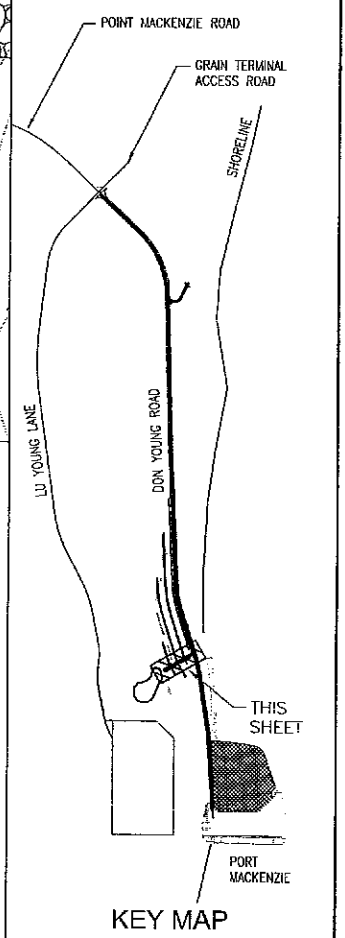


- NOTES:
1. SEE SHEET E1 FOR FLUME DETAILS
 2. UNDERDRAIN, TREE LINE AND CLEARING LIMITS NOT SHOWN FOR CLARITY



ALL DIMENSIONS SHOWN HEREON ARE IN STATE PLANE. CONTRACTOR MUST USE A COMBINED SCALE FACTOR OF 1.000099827 TO CORRECT DIMENSIONS TO HORIZONTAL GROUND DIMENSIONS

SHEET NO.		TOTAL SHEETS	
F8		F9	
STATE		YEAR	
ALASKA		2009	
PROJECT DESIGNATION			
SDP-0001 (370)/58168			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

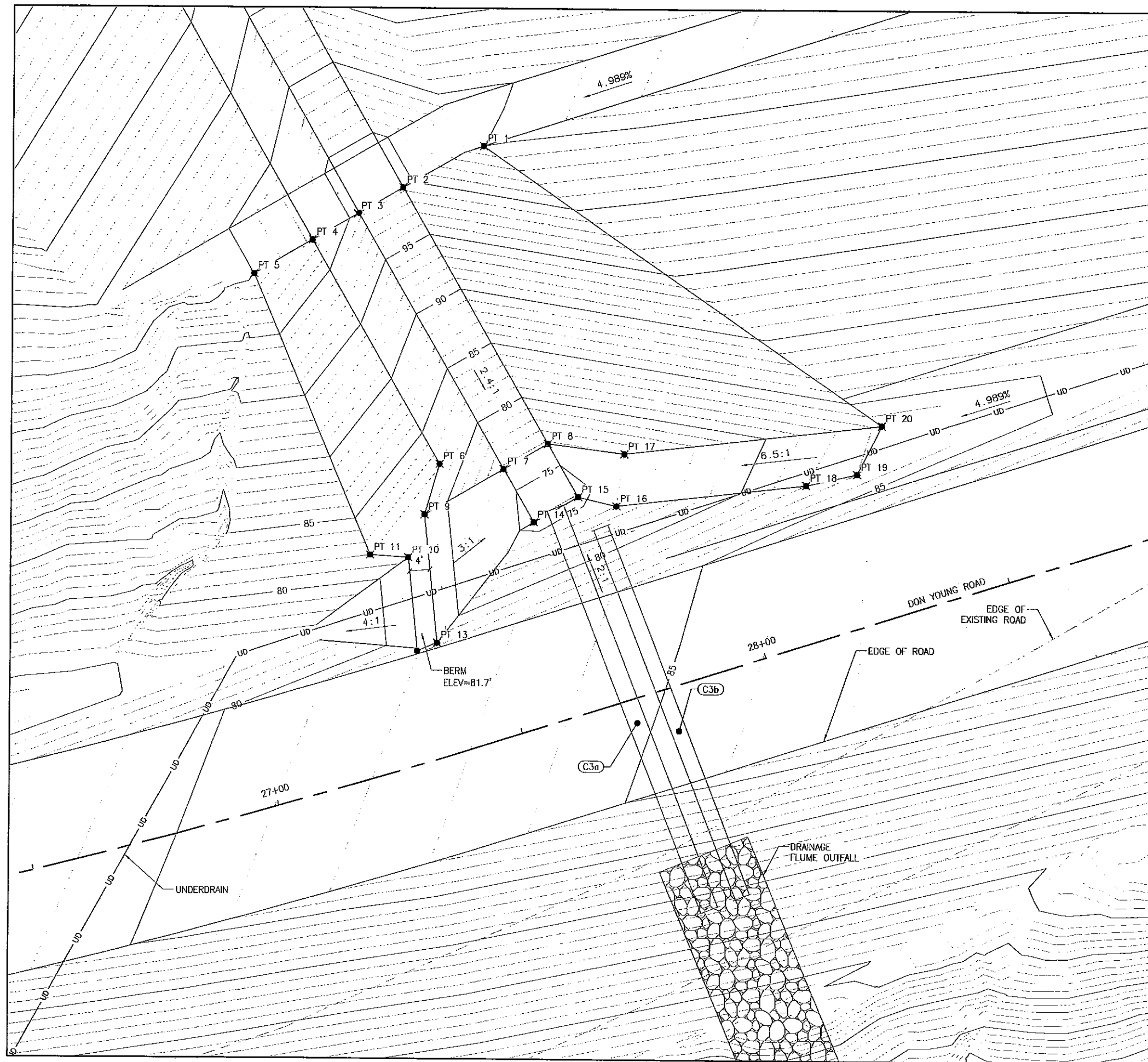


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION

DRAINAGE DITCH
PLAN & PROFILE

J:\2009\061010 Port Mackenzie Access Road\Drawings\F9-Drainage Flume.dwg, P9, 9/2/2009 10:36:37 AM, ROGER, 1:2



- NOTES:
1. RIPRAP IN DRAINAGE FLUME NOT SHOWN FOR CLARITY, SEE SHEET F8.
 2. OUTSIDE OF THE ROADWAY SHOULDERS, ELEVATIONS SHOWN ARE FOR SUBGRADE, FILTER BLANKET, RIPRAP, AND TOPSOIL ALL OCCUR ABOVE THESE ELEVATIONS.
 3. LABELED SLOPES ARE APPROXIMATE.

Point Table			
POINT #	NORTHING	EASTING	ELEVATION
PT 1	2657094.12	1653915.46	104.96
PT 2	2657078.29	1653923.59	99.28
PT 3	2657069.37	1653928.75	99.39
PT 4	2657060.54	1653933.85	102.78
PT 5	2657049.10	1653940.46	104.98
PT 6	2657085.77	1653977.50	82.16
PT 7	2657098.45	1653978.45	75.72
PT 8	2657107.11	1653973.45	75.72
PT 9	2657082.92	1653987.42	81.70
PT 10	2657079.76	1653995.90	81.70
PT 11	2657072.30	1653995.44	82.00
PT 13	2657085.48	1654012.62	81.70
PT 14	2657104.45	1653988.84	74.00
PT 15	2657113.11	1653983.84	73.93
PT 16	2657120.85	1653985.57	76.00
PT 17	2657122.15	1653975.34	76.00
PT 18	2657157.93	1653981.29	82.00
PT 19	2657167.89	1653979.07	83.00
PT 20	2657172.73	1653969.52	83.13

REVIEW SET
9/1/09

ALL DIMENSIONS SHOWN HEREON ARE IN STATE PLANE.
CONTRACTOR MUST USE A COMBINED SCALE FACTOR
OF 1.00099827 TO CORRECT DIMENSIONS TO
HORIZONTAL GROUND DIMENSIONS

SHEET NO.	TOTAL SHEETS
F9	F9
STATE	YEAR
ALASKA	2009

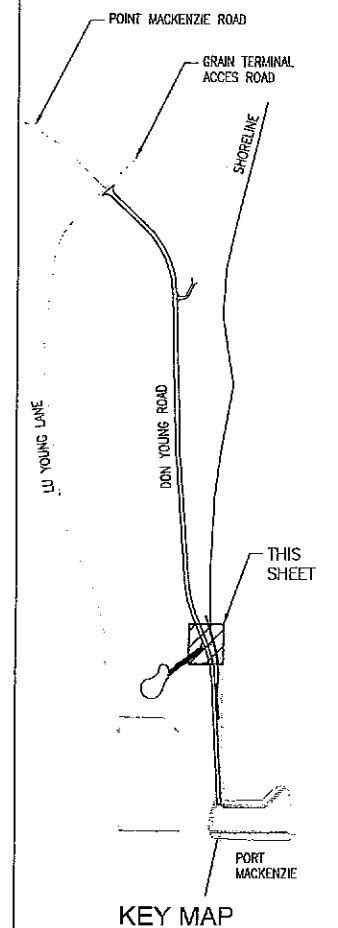
PROJECT DESIGNATION
SDP-0001 (370)/58168

ADDENDUM NO.

ATTACHMENT NO.

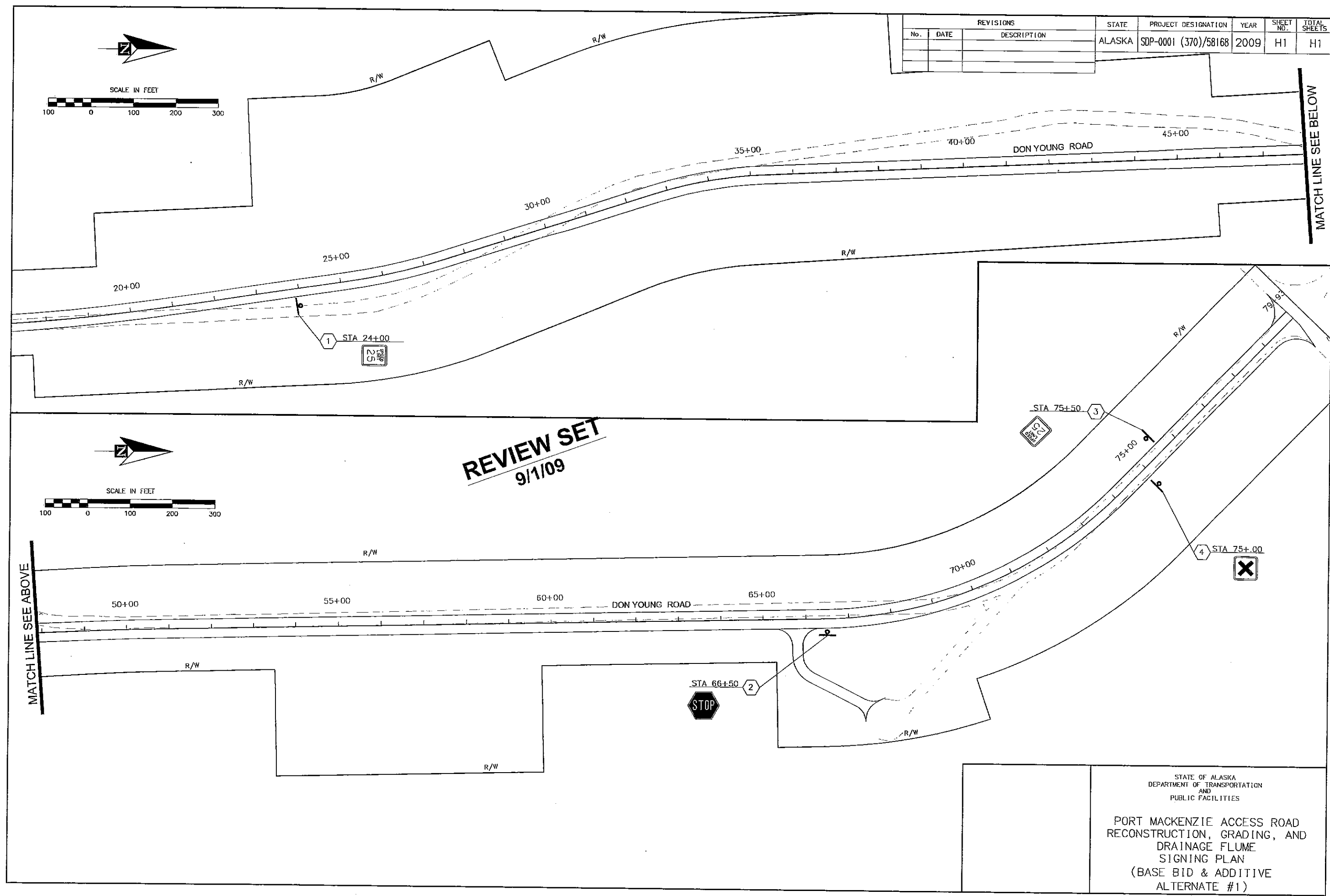
REVISIONS

NO.	DATE	DESCRIPTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION
DRAINAGE FLUME

J:\2006\061010 Port Mackenzie Access Road\Drawings\1 - Signing.dwg, H1, 9/2/2009 10:35:52 AM, ROGER, 1/2



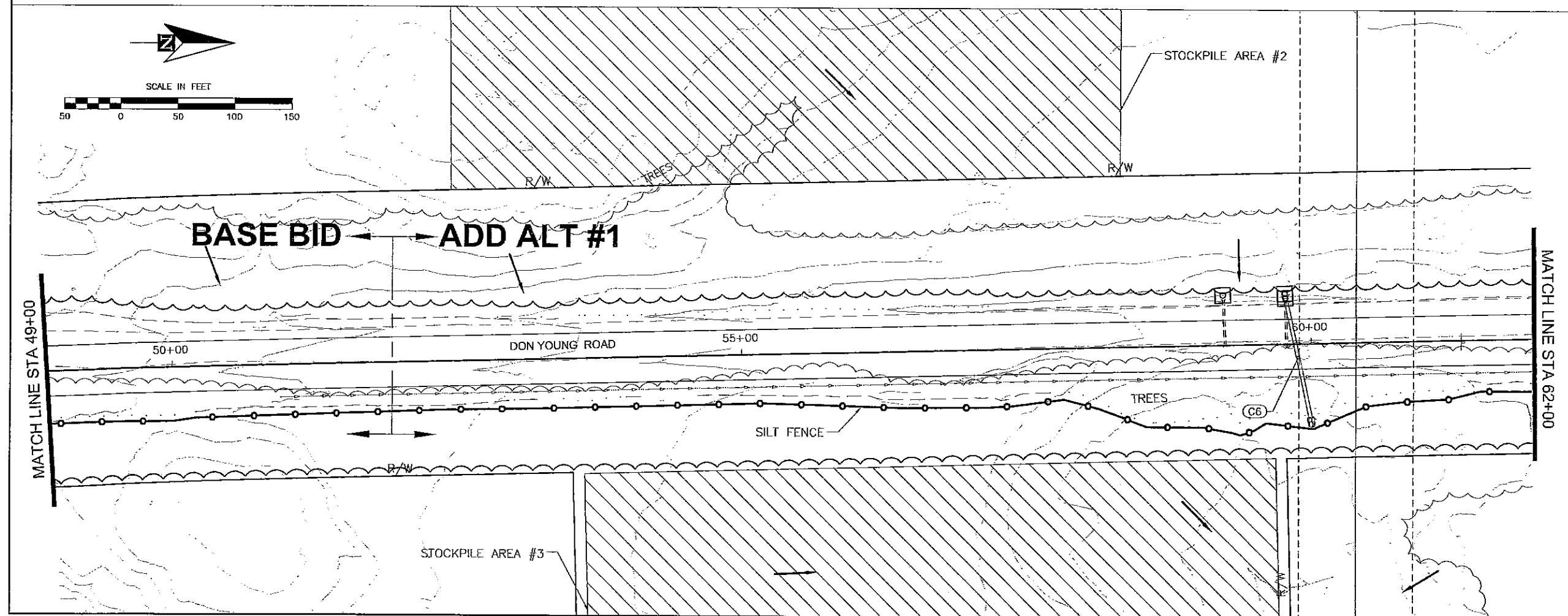
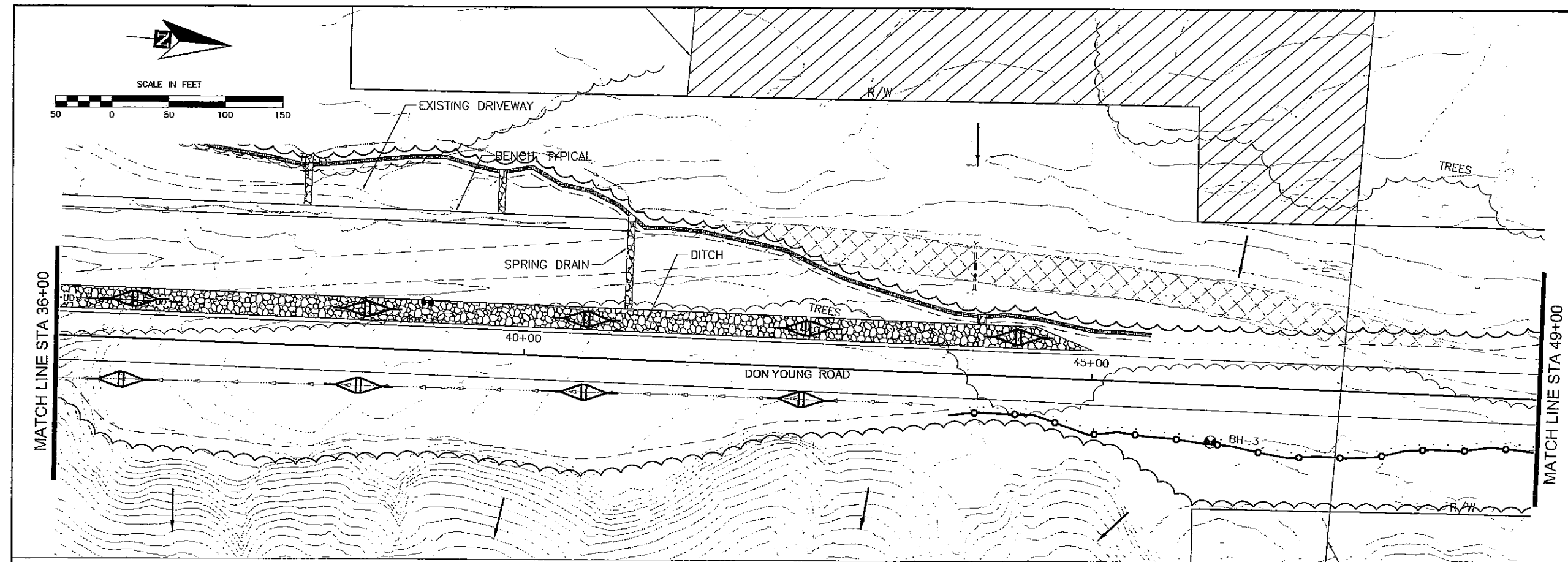
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	H1	H1

REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME
SIGNING PLAN
(BASE BID & ADDITIVE
ALTERNATE #1)

J:\2006\061010 Port Mackenzie Access Road\Drawings\1-P3 - Erosion Control.dwg, P2, 9/2/2005 10:35:39 AM, ROGER, 12



SHEET NO.	TOTAL SHEETS
P2	P5
STATE	YEAR
ALASKA	2007

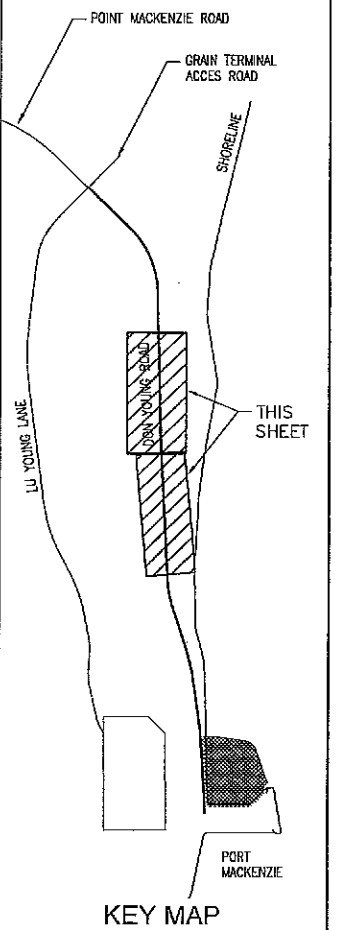
PROJECT DESIGNATION
SDP-0001 (370)/58168

ADDENDUM NO.

ATTACHMENT NO.

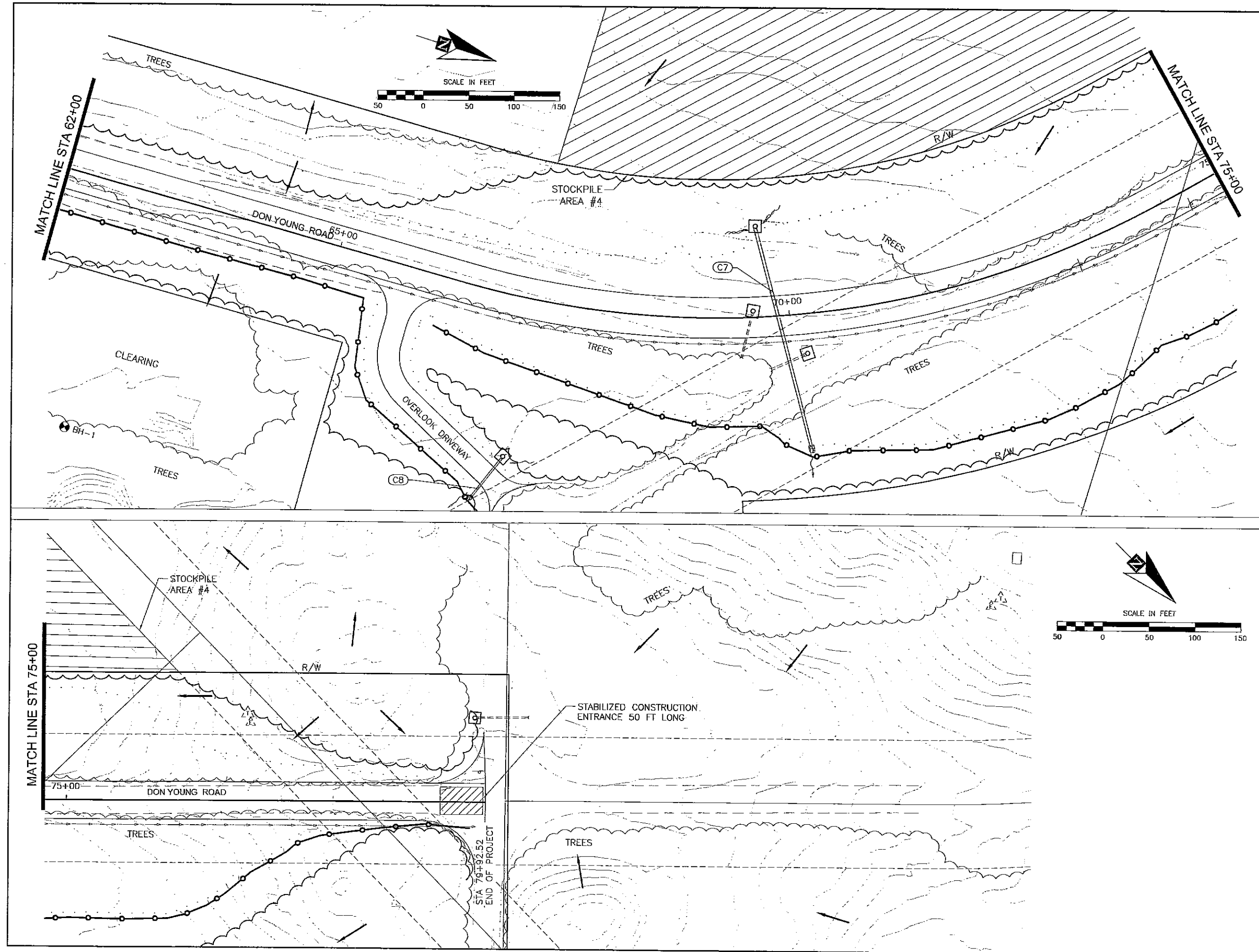
REVISIONS

NO.	DATE	DESCRIPTION

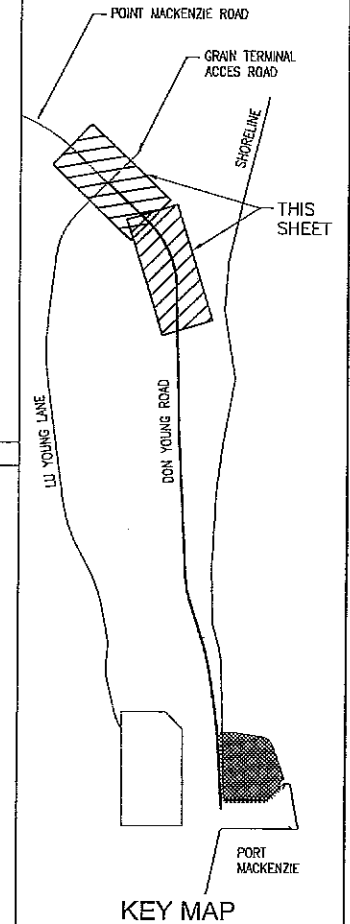


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION
DON YOUNG ROAD
EROSION CONTROL

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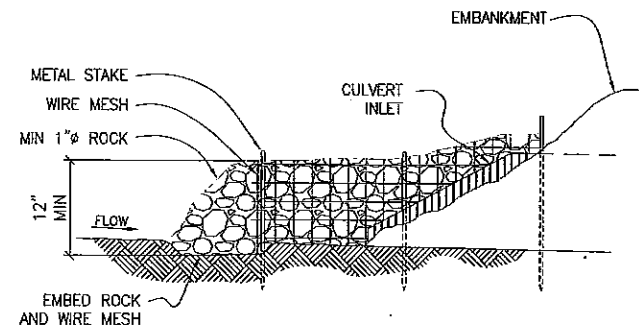
SHEET NO.		TOTAL SHEETS	
P3		P5	
STATE		YEAR	
ALASKA		2007	
PROJECT DESIGNATION			
SDP-0001 (370)/58168			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



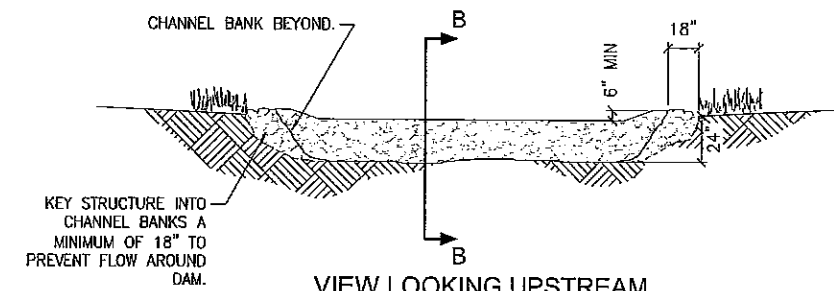
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
PORT MACKENZIE ACCESS
ROAD RECONSTRUCTION,
GRADING, DRAINAGE,
AND DOCK EXPANSION
DON YOUNG ROAD
EROSION CONTROL

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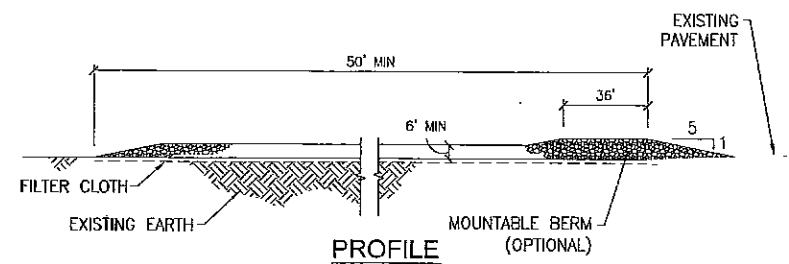
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	P4	P5



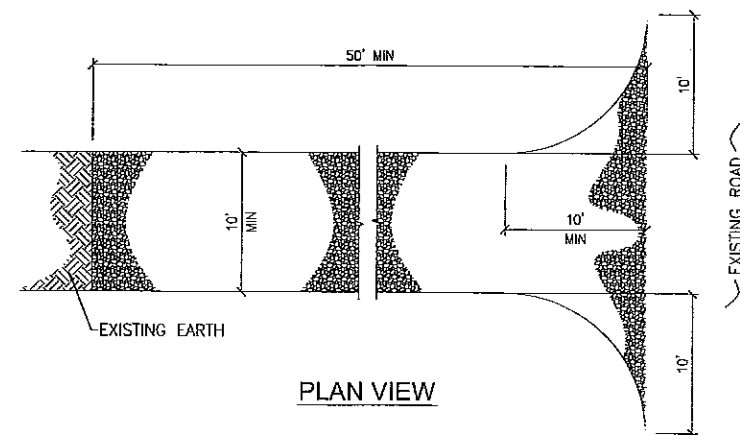
SECTION A-A



VIEW LOOKING UPSTREAM

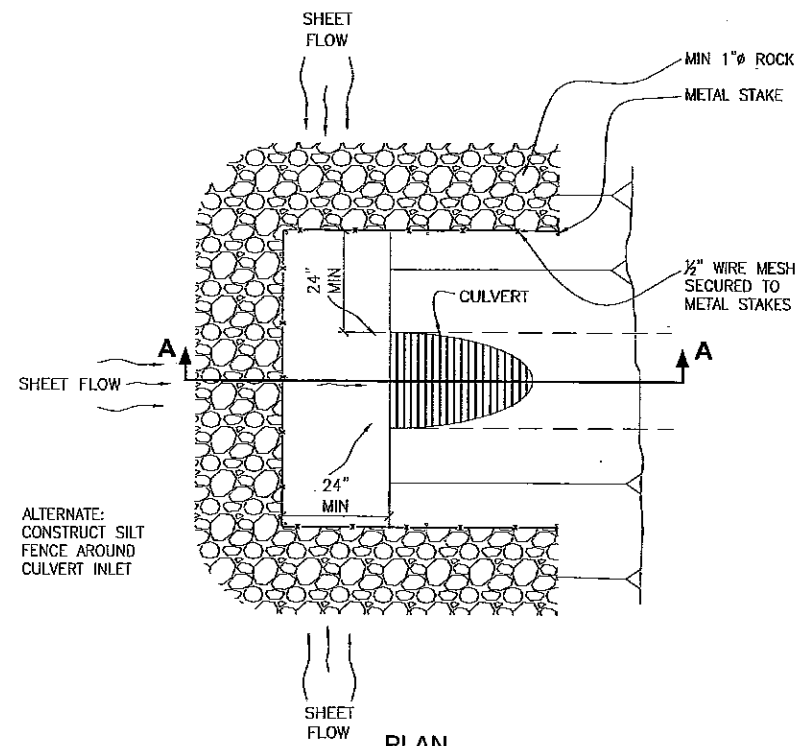


PROFILE



PLAN VIEW

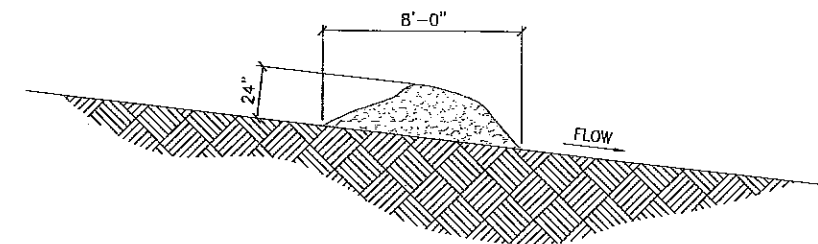
STABILIZED CONSTRUCTION ENTRANCE



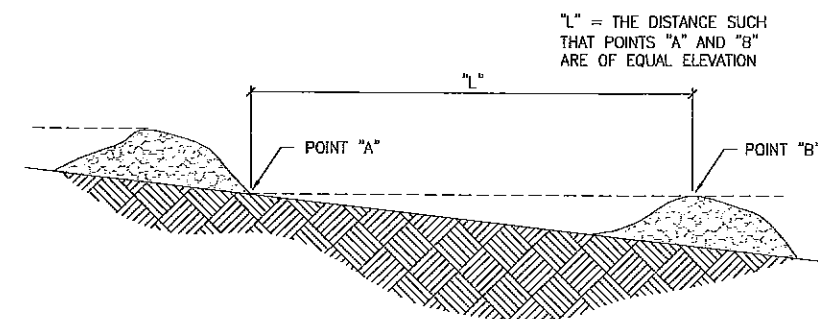
PLAN

CULVERT INLET PROTECTION

NTS



SECTION B-B



SPACING BETWEEN CHECK DAMS

TEMPORARY ROCK CHECK DAM

NTS

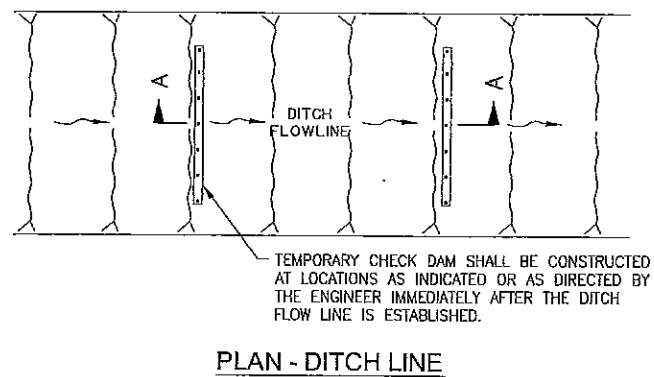
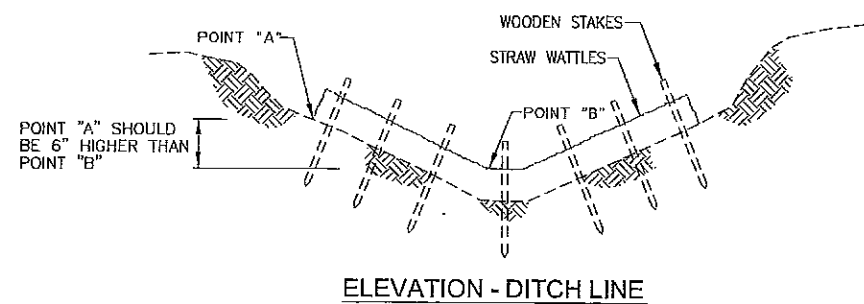
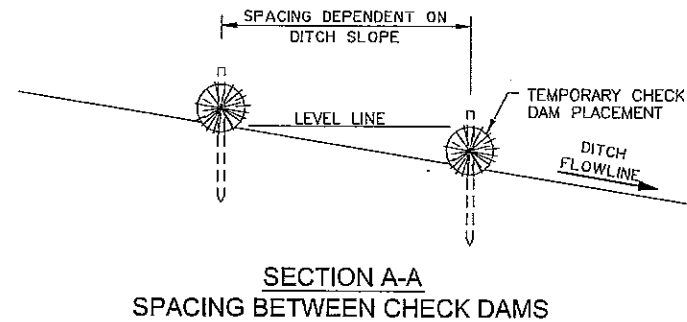
REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

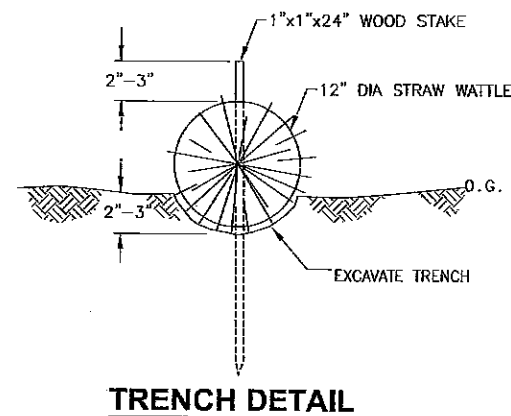
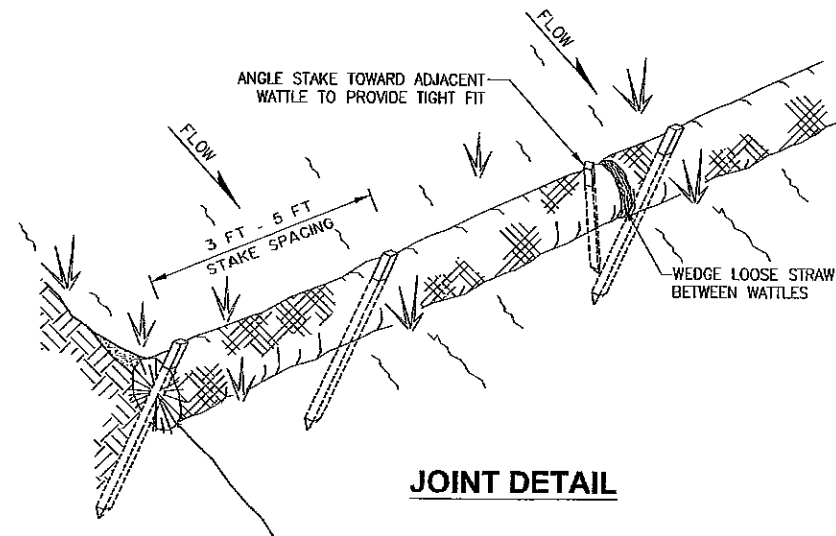
PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

CULVERT INLET PROTECTION
AND TEMPORARY CHECK DAMS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	P5	P5



STRAW WATTLE - TEMPORARY CHECK DAM



- NOTES:
1. STRAW WATTLES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OTHER THAN SURVEYING, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
 2. REMOVAL OF TRAPPED SEDIMENT TO AN AREA NOT SUBJECT TO EROSION IS REQUIRED WHEN THE SEDIMENT HAS REACHED A HEIGHT OF 5". WHEN APPROVED BY THE ENGINEER, AFTER REMOVING STAKES, WATTLES MAY BE LEFT IN PLACE TO DECOMPOSE, OR MAY BE SPREAD AND SEEDED.

REVIEW SET
9/1/09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

PORT MACKENZIE ACCESS ROAD
RECONSTRUCTION, GRADING, AND
DRAINAGE FLUME

STRAW WATTLE DETAILS

J:\2009\051010 Port Mackenzie Access Road\Drawings\1- Right of Way Planning, R1, 9/22/2009 10:37:01 AM, ROOBER, 1:2

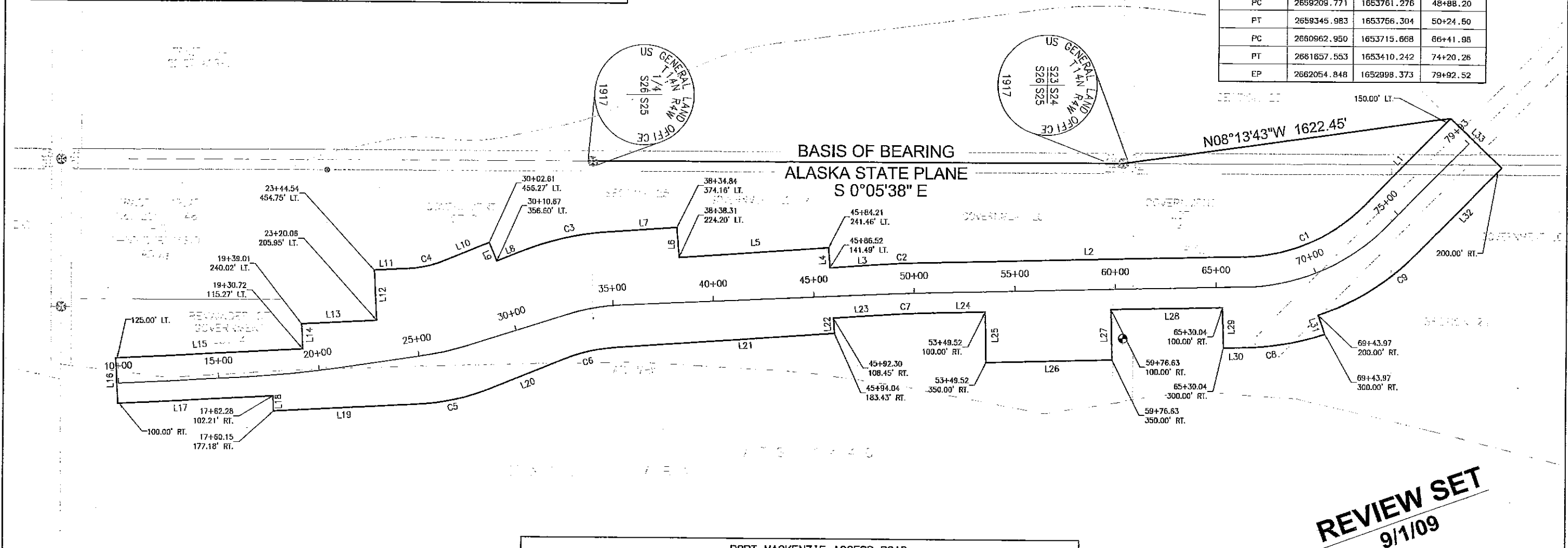
LEGAL DESCRIPTION LINE/CURVE TABLE											
LINE	CHORD BEARING	CHORD	DELTA	RADIUS	ARC	LINE	CHORD BEARING	CHORD	DELTA	RADIUS	ARC
L1	S46°01'55"E	599.31'				L18	N86°57'43"E	75.00'			
C1	S23°44'09"E	644.97'	44°35'32"	850.00'	661.54'	L19	N03°02'17"W	703.70'			
L2	S01°26'23"E	1548.07'				C5	N12°39'41"W	392.84'	19°14'46"	1175.00'	394.69'
C2	S02°45'11"E	281.92'	2°37'36"	6150.00'	281.95'	L20	N22°17'04"W	376.52'			
L3	S04°03'59"E	228.90'				C6	N13°10'31"W	261.22'	18°13'05"	825.00'	262.32'
L4	S85°56'01"W	100.00'				L21	N04°03'59"W	1096.06'			
L5	S04°03'59"E	746.10'				L22	S85°56'01"W	75.00'			
L6	S85°56'01"W	150.00'				L23	N04°03'59"W	228.90'			
L7	S04°03'59"E	349.95'				C7	N02°45'11"W	270.46'	2°37'36"	5900.00'	270.48'
C3	S13°10'31"E	443.28'	16°13'05"	1400.00'	445.15'	L24	N01°26'23"W	255.61'			
L8	S22°17'04"E	125.70'				L25	N88°33'37"E	250.00'			
L9	S67°42'56"W	100.00'				L26	N01°26'23"W	627.11'			
L10	S22°17'04"E	252.82'				L27	S88°33'37"W	250.00'			
C4	S12°39'41"E	167.17'	19°14'46"	500.00'	167.95'	L28	N01°26'23"W	553.41'			
L11	S03°02'17"E	170.89'				L29	N88°33'37"E	200.00'			
L12	N86°57'43"E	250.00'				L30	N01°26'23"W	111.94'			
L13	S03°02'17"E	374.83'				C8	N10°05'28"W	391.10'	17°18'10"	1300.00'	392.59'
L14	N86°57'43"E	125.00'				L31	S71°15'27"W	100.00'			
L15	S03°02'17"E	930.73'				C9	N32°23'14"W	566.16'	27°17'22"	1200.00'	571.55'
L16	N86°57'43"E	225.00'				L32	N46°01'55"W	599.31'			
L17	N03°02'17"W	772.75'				L33	S43°58'05"W	350.00'			

NOTE: ALL DISTANCES SHOWN ARE STATE PLANE GRID DISTANCES

ALL DIMENSIONS SHOWN THEREON ARE IN STATE PLANE. CONTRACTOR MUST USE A COMBINED SCALE FACTOR OF 1.000099827 TO CORRECT DIMENSIONS TO HORIZONTAL GROUND DIMENSIONS

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
No.	DATE	DESCRIPTION	ALASKA	SDP-0001 (370)/58168	2009	R1	R1

PORT MACKENZIE ACCESS ROAD PROJECT CENTERLINE COORDINATES			
LOCATION	NORTHING	EASTING	STATION
BP	2655467.229	1654223.269	11+00.00
PC	2655981.636	1654195.966	16+15.13
PT	2656469.307	1654146.017	21+05.55
PC	2656869.744	1654085.042	25+10.60
PT	2657099.057	1654031.425	27+46.34
PC	2657599.276	1653872.145	32+71.31
PT	2657854.882	1653826.149	35+31.74
PC	2658209.771	1653761.276	48+88.20
PT	2659345.983	1653756.304	50+24.50
PC	2660962.950	1653715.668	66+41.98
PT	2661657.553	1653410.242	74+20.26
EP	2662054.848	1652998.373	79+92.52



REVIEW SET
9/1/09

COORDINATES ARE IN NAD 83 FEET ALASKA STATE PLANE ZONE IV ELEVATIONS ARE N.O.A.A. MEAN LOWER LOW WATER DATUM (MLLW = 0.00')				
PORT MACKENZIE ACCESS ROAD				
HORIZONTAL AND VERTICAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
40.00	2655203.459	1655049.743	36.48	NOAA TIDAL BM MONUMENT "5934F 2001"
303.00	2657764.863	1653911.882	148.91	PND 2" AL. CAP "CP 303"
50.00	2661098.650	1653987.850	145.85	PND 2" AL. CAP "CP 50"

PORT MACKENZIE ACCESS ROAD					
RECOVERED CORNERS					
LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET
WCMC SEC 25 & 36 (759)	2 1/2" BRASS CAP MON.	2655078.663	1653847.996	7+31.89	395.34 LT
NOAA BENCH MARK "5934F 2001" (40)	3 1/4" BRASS CAP MON.	2655203.459	1655049.743	7+92.80	811.33 RT
N/W COR TR. 1 P1D 1-NP1 SUBD. (300)	5/8" REBAR W/ 2" AL. CAP	2656398.577	1653163.449	21+83.54	982.03 LT
1/4-SEC 25 & 26 T14N R4W (320)	2 1/2" BRASS CAP MON.	2657718.962	1653111.295	34+72.78	723.53 LT
WCMC 1 ATS 1440 (781)	2 1/2" ALUMINUM MON.	2660360.729	1653980.643	60+33.29	249.76 RT
SEC 23,24,25,26 T14N R4W (501)	2 1/2" BRASS CAP MON.	2660359.926	1653108.970	60+54.44	623.66 LT
WCMC 1 ATS 1606 (760)	3 1/4" AL. CAP MON.	2662999.381	1654085.695	78+58.50	1441.63 RT
1/4 COR SEC 23 & 24 (704)	2 2 1/2" BRAS CAP MON.	2662998.323	1653100.896	85+73.75	750.22 RT

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RIGHT OF WAY PLAN