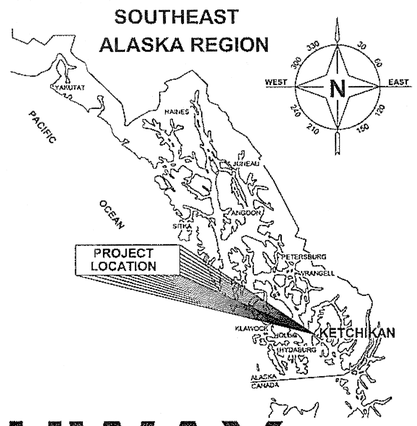
State of Alaska

Department of Transportation and Public Facilities Southeast Region

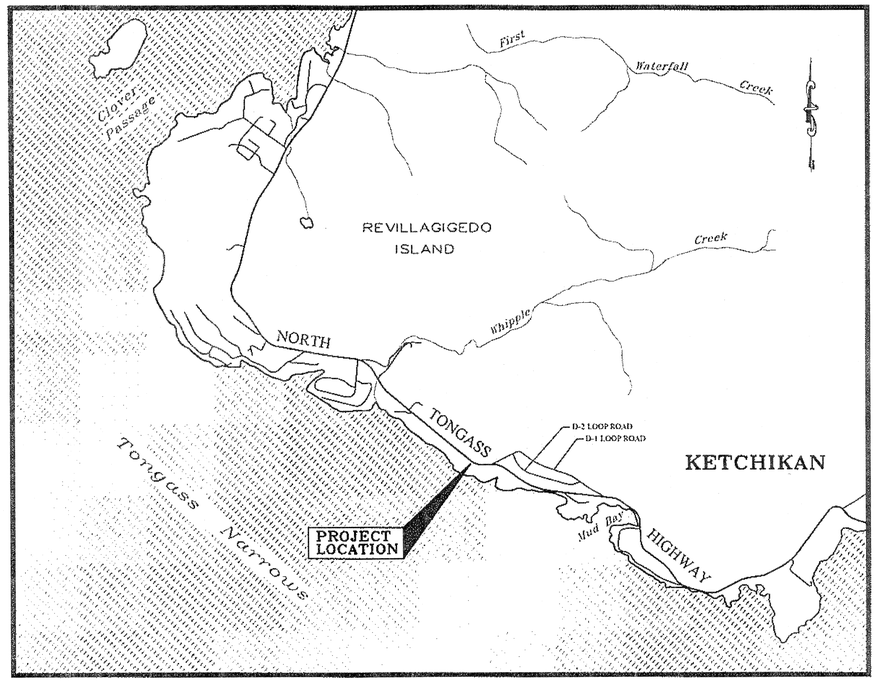
KETCHIKAN, ALASKA



KTN - NORTH TONGASS HIGHWAY SAFETY IMPROVEMENTS

STATE PROJECT 67423

FEDERAL PROJECT HHE-0920(24)



VICINITY MAP

DESIGN DESIGNATION

A.D.T. 2007	=	4090
A.D.T. 2030	=	4580
D.H.V. (10.7%) 2030	=	490
% T	=	13.1%
V	=	55 MPH
E.A.L.	=	1,150,000

PROJECT SUMMARY

LENGTH OF PROJECT	=	0.2 MILES
LENGTH OF RESURFACING	=	0.2 MILES
WIDTH OF RESURFACING	=	36 FT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	D-22.01	I-81.00	M-23.12	S-30.03
C-05.10	D-23.01	L-03.10	S-00.10	T-06.00
D-01.02	D-26.02	L-26.00	S-05.01	T-21.02
D-04.21	E-13.00	M-20.12	S-20.10	

INDEX

Start Date: May 11, 2009
End Date: October 27, 2009

Project Engineer: Jack Lee

Contractor: Secon Inc.

PATH: Q:\KTN\67423\PLANSET\67423_A1_TSHT.DWG TAB:A1

Wednesday, December 19, 2007 10:54:26 AM

PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA
49TH
CRAD V. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

APPROVED: for [signature] 3/11/09
REGIONAL PRE-CONSTRUCTION ENGINEER — DATE
VICTOR M. WINTERS, P.E.

APPROVED: [signature] 3-12-09
DIRECTOR, SOUTHEAST REGION — DATE
GARY L. DAVIS

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

[signature] 3/7/12
CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	HHE-0920(24) 67423	2009	A1	25

HORIZONTAL CONTROL

THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT WAS DERIVED FROM GPS OBSERVATIONS PERFORMED BY DOT/PF ON PAIRS OF CENTERLINE MONUMENTS AT REVILLA ROAD AND AT WHIPPLE CREEK. A TRAVERSE WAS RUN BY TONER-NORDLING AND ASSOCIATES BETWEEN SAID PAIRS AND ADJUSTED BY TNA. CONTROL TRAVERSE WAS THEN SCALED TO GROUND DISTANCES AND ROTATED TO GEODETIC BEARINGS.

FOR THIS PHASE OF THIS PROJECT THE CONTROL BASE IS OUTLINED IN COORDINATE TABLES. THESE COORDINATES ARE NOT TRUE STATE PLANE BUT RATHER A LOCAL SYSTEM NEAR STATE PLANE VALUES.

TRANSFORMATION PARAMETERS RELATING THE LOCAL GROUND BASED COORDINATE SYSTEM TO ALASKA STATE PLANE ZONE 1 US FEET WERE COMPUTED POST TRAVERSE BY DOT/PF. OPUS WAS USED TO CONTROL THE BASE STATION ON POINT #435 AND SIX GPS TIES TO NETWORK CONTROL CONFIRMED THE FOLLOWING TRANSFORMATION VALUES.
GRID SCALE FACTOR : 0.99990085
ROTATION TO GRID NORTH : 1°35'14"
LOCAL NORTHING: 1,316,047.0920'
LOCAL EASTING: 3,079,528.5740'
AKSPC GRID NORTHING: 1,315,746.0455'
AKSPC GRID EASTING: 3,079,408.2788'

VERTICAL CONTROL

THE BASIS OF VERTICAL CONTROL IS A BRASS CAP MONUMENT FOUND IN THE NE BRIDGE ABUTMENT OF WHIPPLE CREEK BRIDGE. THE ACCEPTED ELEVATION OF THIS POINT IS 135.79' ABOVE MLLW.

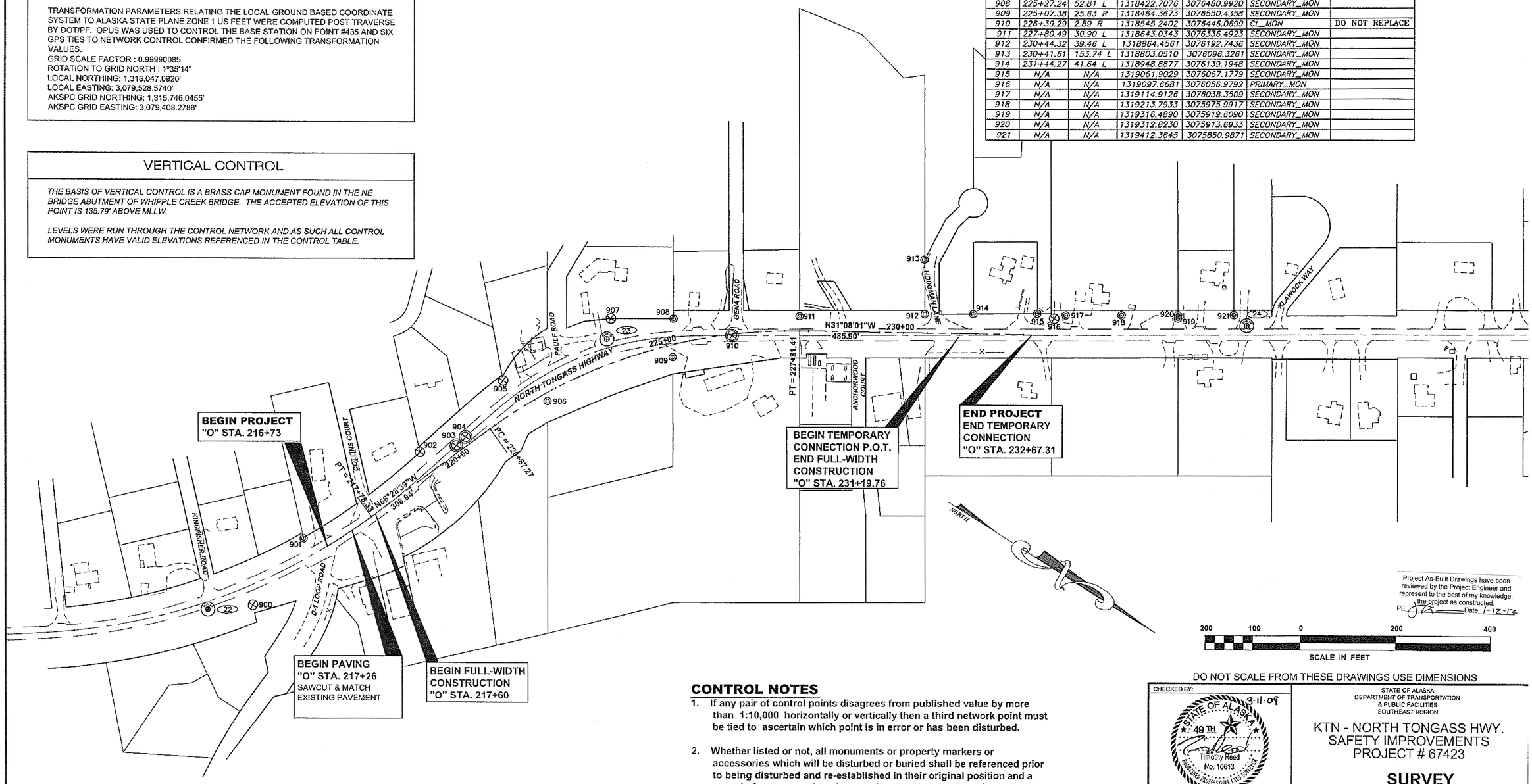
LEVELS WERE RUN THROUGH THE CONTROL NETWORK AND AS SUCH ALL CONTROL MONUMENTS HAVE VALID ELEVATIONS REFERENCED IN THE CONTROL TABLE.

CONTROL MONUMENTS

POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION	REMARKS
22	N/A	N/A	1317918.0721	3077515.6684	59.43	ALCTRL2"_NT-22	DO NOT REPLACE OR RESET IF DISTURBED
23	223+87.16	51.25 L	1318326.7387	3076592.1186	98.25	ALCTRL2"_NT-23	
24	N/A	N/A	1319447.2601	3075855.0778	100.29	ALCTRL2"_NT-24	

PROPERTY MONUMENTS

POINT	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION	REMARKS
900	N/A	N/A	1317993.5146	3077457.7512	PRIMARY_MON	
901	N/A	N/A	1318010.0110	3077284.5475	SECONDARY_MON	
902	219+40.06	48.27 L	1318120.8129	3077002.5799	PRIMARY_MON	
903	220+10.09	13.96 L	1318178.4168	3076950.0226	CL_MON	DO NOT REPLACE
904	220+36.00	16.51 L	1318185.5510	3076924.9784	CL_MON	DO NOT REPLACE
905	221+65.27	68.54 L	1318189.2183	3076782.1450	IRON_PIPE	
906	222+21.88	16.28 R	1318291.1548	3076769.4026	SECONDARY_MON	
907	224+08.41	89.18 L	1318310.9588	3076550.8462	PRIMARY_MON	
908	225+27.24	52.81 L	1318422.7076	3076480.9920	SECONDARY_MON	
909	225+07.38	25.63 R	1318464.3673	3076550.4358	SECONDARY_MON	
910	226+39.29	2.89 R	1318545.2402	3076446.0699	CL_MON	DO NOT REPLACE
911	227+80.49	30.90 L	1318643.0343	3076336.4923	SECONDARY_MON	
912	230+44.32	39.46 L	1318864.4561	3076192.7436	SECONDARY_MON	
913	230+41.61	153.74 L	1318803.0510	3076096.3261	SECONDARY_MON	
914	231+44.27	41.64 L	1318948.8877	3076139.1948	SECONDARY_MON	
915	N/A	N/A	1319061.9029	3076067.1779	SECONDARY_MON	
916	N/A	N/A	1319097.6681	3076056.9792	PRIMARY_MON	
917	N/A	N/A	1319114.9126	3076038.3509	SECONDARY_MON	
918	N/A	N/A	1319213.7933	3075975.9917	SECONDARY_MON	
919	N/A	N/A	1319316.4890	3075919.6090	SECONDARY_MON	
920	N/A	N/A	1319312.8230	3075913.6933	SECONDARY_MON	
921	N/A	N/A	1319412.3645	3075850.9871	SECONDARY_MON	



CONTROL NOTES

1. If any pair of control points disagrees from published value by more than 1:10,000 horizontally or vertically then a third network point must be tied to ascertain which point is in error or has been disturbed.

2. Whether listed or not, all monuments or property markers or accessories which will be disturbed or buried shall be referenced prior to being disturbed and re-established in their original position and a record of monument form in accordance with A.S.34.65.040 shall be submitted to the construction engineer for review prior to recording. Coordinate values listed are for informational purposes and should be used to reset monuments only as a last resort.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY:
STATE OF ALASKA 3-11-09 49TH Timothy Reed No. 10613 REGISTERED PROFESSIONAL LAND SURVEYOR
DESIGNED BY:
DRAWN BY:

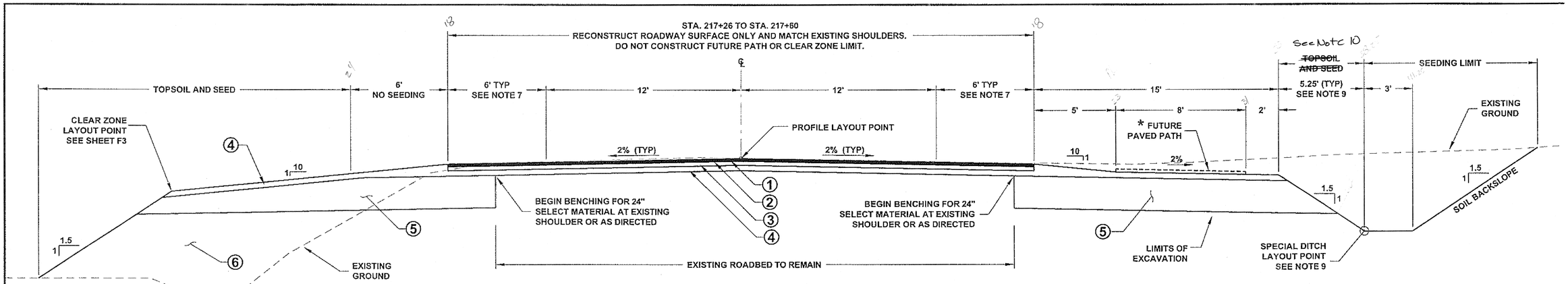
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

SURVEY CONTROL PLAN

PATH: Q:\KTN\67423\PLANSET\67423_A2_CNTRL.DWG
TAB: A2 WILSON, BRIAN G (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0920(24) 67423	2009	A2	25

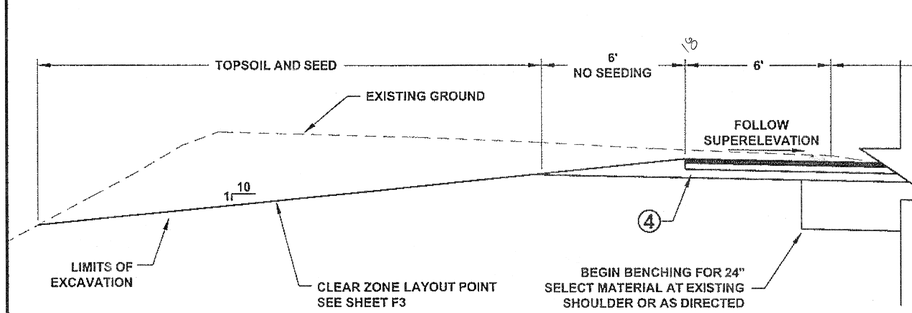


TYPICAL SECTION

STA. 217+26 TO STA. 219+80
STA. 227+40 TO STA. 231+19.76

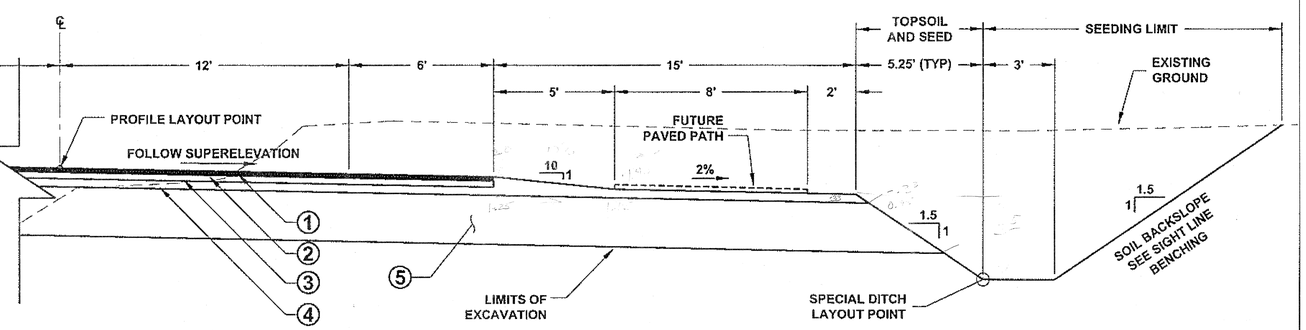
SEE SHEET G5 FOR SWALE AT UNDERGROUND FUEL TANKS, STA 228+60, AND FOR ANCHORWOOD COURT ACCESS

* BUILDOUT FOR FUTURE PATH WILL END AT STA. 228+55



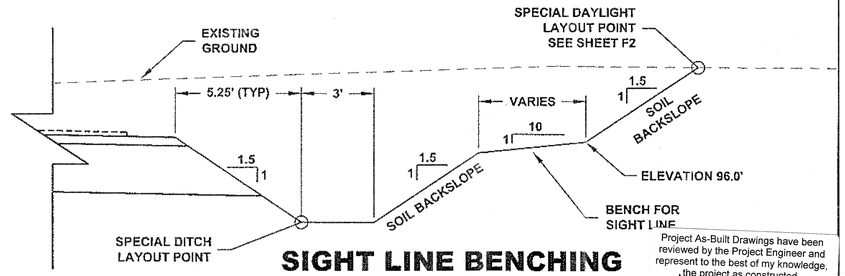
TYPICAL LEFT CUT SECTION

STA. 219+80 TO STA. 221+80



TYPICAL SECTION

STA. 219+80 RT TO STA. 221+80 RT
STA. 224+00 RT TO STA. 227+40 RT



SIGHT LINE BENCHING

STA. 224+80 RT TO STA. 226+00 RT

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

TYPICAL SECTION NOTES:

1. NO EXISTING ROAD PAVEMENT SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
2. CUT SOIL SLOPES ARE NOT REQUIRED TO BE COVERED WITH TOPSOIL. NON-BEDROCK CONSTRUCTION SLOPES THAT ARE STEEPER THAN 1.5:1 (H:V) WILL BE EVALUATED FOR SLOPE STABILIZATION MEASURES. BEDROCK SLOPES SHALL NOT RECEIVE TOPSOIL OR SEEDING. DO NOT SEED FUTURE PATH AREA.
3. CLEARING AND GRUBBING LIMITS SHALL BE THE LIMITS BELOW, OR AS DIRECTED BY THE ENGINEER.

   CLEARING AND GRUBBING LIMITS
   CLEARING AND GRUBBING LIMITS SHALL BE FROM THE EDGE OF MAINTAINED DITCH\FORESLOPE TO THE PROPOSED CUT\FILL SLOPE LIMITS.

   CLEARING LIMITS
   CLEARING LIMITS SHALL BE TO A POINT 5' BEYOND THE PROPOSED CUT\FILL SLOPE LIMITS OR TO THE RIGHT-OF-WAY, WHICHEVER IS CLOSER TO CENTERLINE. FROM STA. 226+00 TO STA. 227+50, CLEAR TO THE ROW TO PROVIDE SIGHT DISTANCE FOR ANCHORWOOD CT.
4. THE AVERAGE THICKNESS OF EXISTING PAVEMENT IS 3".
5. WHERE THE ROADWAY IS REALIGNED, CONSTRUCT 24" OF SELECTED MATERIAL TYPE A IN AREAS OUTSIDE OF THE EXISTING ROADWAY. THE MINIMUM NEW PAVEMENT SECTION CONSISTS OF 2" ASPHALT CONCRETE, 3" ATB, AND 4" AGGREGATE BASE COURSE, GRADING D-1. AGGREGATE BASE COURSE, GRADING D-1 MAY BE PLACED DIRECTLY ON EXISTING ROADWAY EMBANKMENT AS GRADE AND ALIGNMENT ALLOW.
6. FILL SLOPE RATIOS DEPICTED ON ALL "B" SHEETS ARE THE MINIMUM. SLOPES MAY BE CONSTRUCTED FLATTER IF APPROVED. DITCHES SHALL BE CONSTRUCTED AS SHOWN ON THE TYPICAL SECTIONS.
7. BEGINNING STA. 217+60, CONSTRUCT FULL 6' SHOULDERS AND BUILD-OUT FOR FUTURE PATH AS SHOWN IN THE TYPICAL.
8. FLATTEN THE DITCH FORESLOPE TO ACHIEVE THE NECESSARY OFFSET AND ELEVATION OF THE SPECIAL DITCH LAYOUT POINT.
9. FROM STATION 218+03 TO 218+70 RT, DITCH DEPTH SHALL BE 1 FOOT WHILE MAINTAINING THE 5.25' FORESLOPE DISTANCE.
10. Topsoil & Seeding Deleted from all D-1 & Shot Rock covered areas.

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B
2. STE-1 ASPHALT FOR TACK COAT
3. 3" ASPHALT TREATED BASE COURSE
4. 4" AGGREGATE BASE COURSE, GRADING D-1
5. 24" SELECTED MATERIAL, TYPE A
6. SELECTED MATERIAL, TYPE B

9" = 0.8

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 1-10-12

CHECKED BY: C. HOWARD
DESIGNED BY: J. WEAVER
DRAWN BY: J.W. / R.S.
PATH: Q:\KTN\67423\PLANSET\67423_B1_TYPS.DWG
TAB: B1 DLESTER

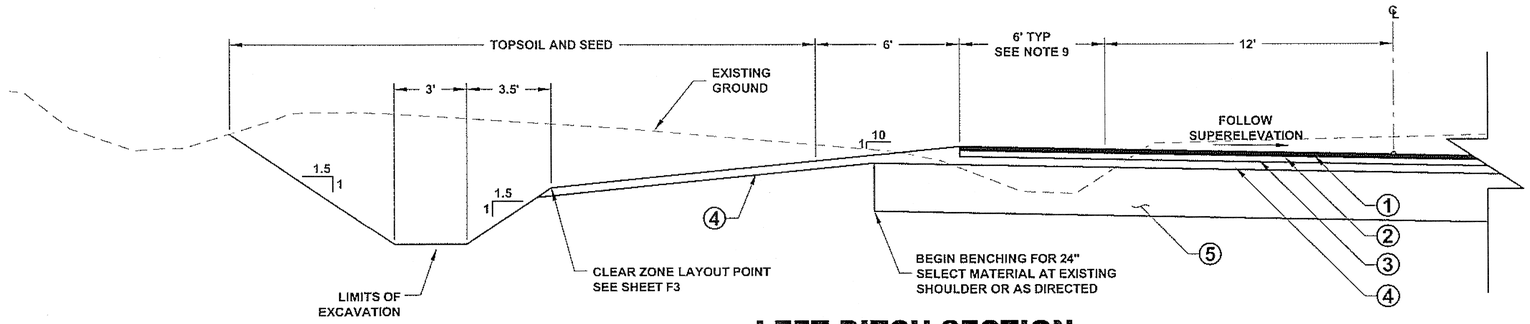
STATE OF ALASKA
CHAD C. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

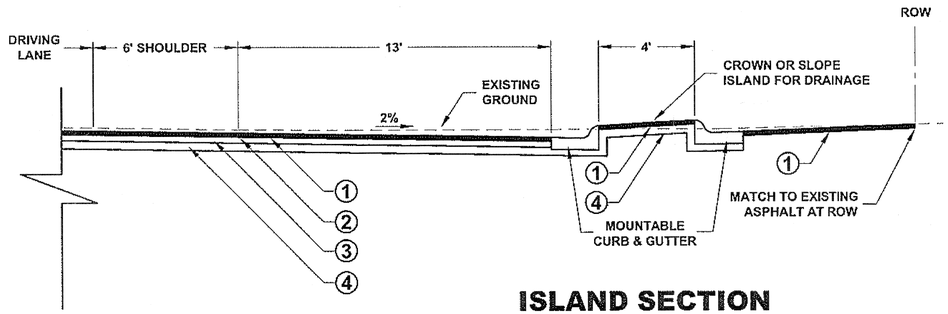
KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS
PROJECT # 67423

TYPICAL SECTIONS

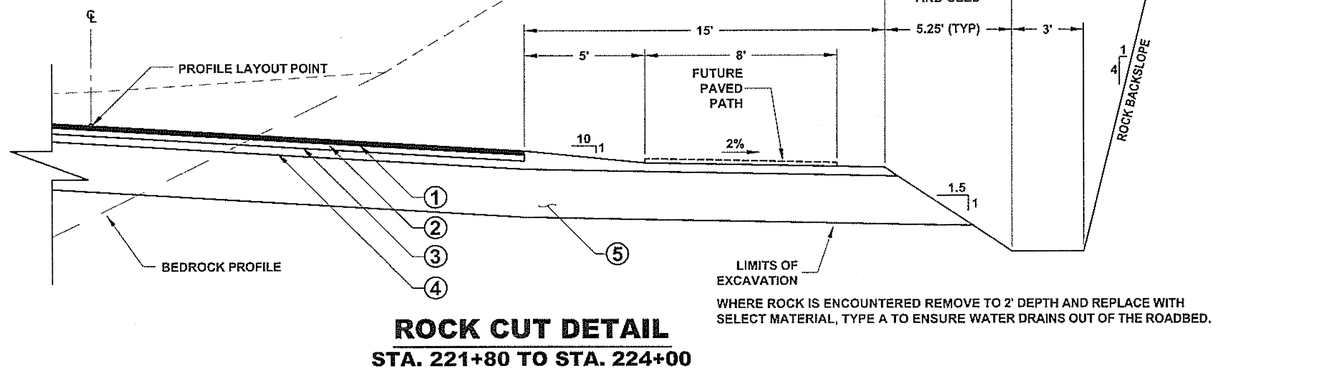
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0920(24) 67423	2009	B1	25



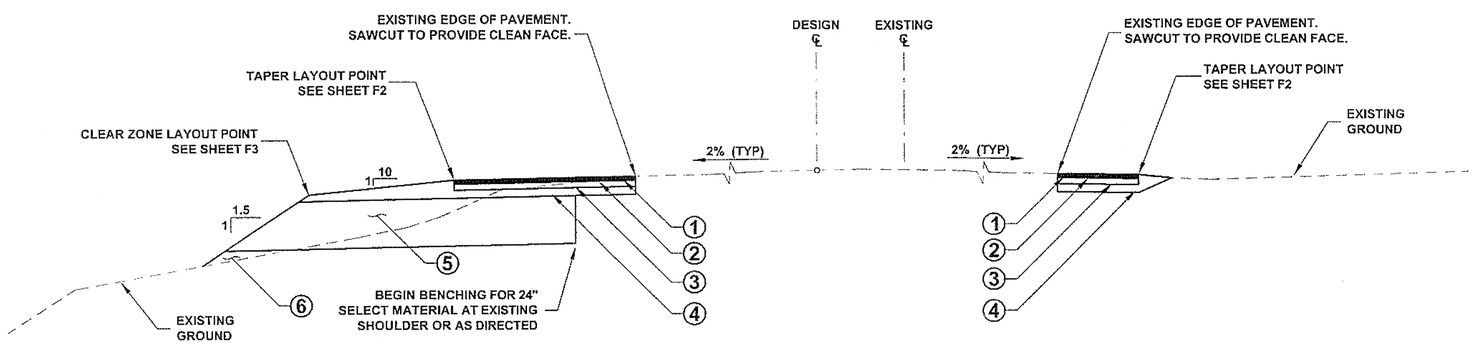
LEFT DITCH SECTION
STA. 221+80 LT TO STA. 225+50 LT



ISLAND SECTION
STA. 229+28 TO STA. 230+01
SEE SHEET G5 FOR ISLAND LAYOUT



ROCK CUT DETAIL
STA. 221+80 TO STA. 224+00
WHERE ROCK IS ENCOUNTERED REMOVE TO 2' DEPTH AND REPLACE WITH SELECT MATERIAL, TYPE A TO ENSURE WATER DRAINS OUT OF THE ROADBED.



TYPICAL SECTION
STA. 231+19.76 TO E.O.P.

LEGEND

1. 2" ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B
2. STE-1 ASPHALT FOR TACK COAT
3. 3" ASPHALT TREATED BASE COURSE
4. 4" AGGREGATE BASE COURSE, GRADING D-1
5. 24" SELECTED MATERIAL, TYPE A
6. SELECTED MATERIAL, TYPE B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-10-12

CHECKED BY: C. HOWARD
DESIGNED BY: J. WEAVER
DRAWN BY: J.W. / R.S.

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

TYPICAL SECTIONS

PATH: Q:\KTN\67423\PLANSET\67423_B1_TYPS.DWG
TAB: B2
WILSON, BRIAN G (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	B2	25

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202 (2)	REMOVAL OF PAVEMENT	SQUARE YARD	~~5,030~~ 5398.7
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	~~421~~ 482.1
202 (10)	SINGLE MAIL BOX INSTALLATION	EACH	~~2~~ 3
202 (11)	MULTIPLE MAIL BOX INSTALLATION	EACH	~~2~~ 3
203 (3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	~~13,350~~ 12,002.81
203 (5)	BORROW, TYPE A	CUBIC YARD	~~700~~ 58.34
203 (19)	CONTROL OF INVASIVE PLANTS	LUMP SUM	ALL REQUIRED
301 (1)	AGGREGATE BASE COURSE, GRADING D-1 – Deleted CO#3	TON	~~2,700~~ ~~2837.35~~
306 (1)	ATB	TON	~~1,140~~ 984.14
401 (1)	ASPHALT CONCRETE, TYPE II; CLASS B	TON	~~990~~ 1153.28
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	TON	~~111~~ 101.95
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	~~3~~ 0.89
603 (1)-12	12 INCH CSP	LINEAR FOOT	~~20~~ 20.7
603 (21)-18	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~343~~ 357.10
603 (21)-24	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~160~~ 167.77
604 (5)	INLET, TYPE A	EACH	5
609 (2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	~~206~~ 276.0
611 (3)	RIPRAP, CLASS I	SQUARE YARD	~~10~~ 14
615 (2)	REMOVE AND RELOCATE EXISTING SIGN	EACH	6
618 (1)	SEEDING	ACRE	~~1.5~~ 0.309
620 (1)	TOPSOIL	SQUARE YARD	7,260 ITEM NOT USED
633 (1)	SILT FENCE	LINEAR FOOT	~~1,440~~ 641.9
639 (1)	RESIDENCE DRIVEWAY	EACH	8
639 (2)	COMMERCIAL DRIVEWAY	EACH	6
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640 (4)	WORKER MEALS AND LODGING, OR PER DIEM	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (7)	INLET PROTECTION	EACH	~~5~~ 8
641 (8)	ROCK CHECK DAM	EACH	~~5~~ 7
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED

ESTIMATE OF QUANTITIES (CONTINUED)

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY	
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED	
660 (3)	HIGHWAY LIGHTING SYSTEM COMPLETE	LUMP SUM	ALL REQUIRED	
670 (1)	PAINTED TRAFFIC MARKINGS	LUMP SUM	ALL REQUIRED	
670 (8)	RECESSED PAVEMENT MARKER	EACH	~~25~~ 36	
202(4A)	P. 205 Grout Cement Fill	Lump Sum	All Required	CO #1
643(29)	Reduce Speed Signs	Lump Sum	All Required	CO #2
301(1)	Aggregate Base Course, Grading D-1	Lump Sum	All Required	CO #3
615(5)	Flexible Delineators	Each	8	CO #4
670(14)	Striping + Access Changes	Lump Sum	All Required	CO #4
605(8)	8" Perforated Corrugated Polyethylene Pipe	Linear Foot	348.1	CO #5 270
605(8A)	Extra Work Associated W/Perforated Pipe Install	Lump Sum	All Required	CO#5

BASIS OF ESTIMATE

ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
201 (3B)	CLEARING AND GRUBBING	1.7 ACRES
203 (3)	UNCLASSIFIED EXCAVATION	9800 CY COMMON; 4050 CY ROCK
203	PRE-BLAST SURVEY	15 HOMES
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	1.95 TON/CY
306 (1)	ATB	120 LB/SY/IN
401 (1)	ASPHALT CONCRETE, TYPE II; CLASS B	120 LB/SY/IN
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	4.5% OF ITEM 306(1), 6% OF ITEM 401(1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/SY; 243 GAL/TON

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-10-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD
STATE OF ALASKA – REGISTERED PROFESSIONAL ENGINEER – CHAD J. HOWARD – CE-10835
3-11-09
DESIGNED BY: J. WEAVER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS PROJECT # 67423

ESTIMATE OF QUANTITIES

PATH: G:\KTN\67423\PLANSET\67423_C1_EST.DWG
TAB: C1 WILSON, BRIAN G (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			HHE-0920(24) 67423	2009	C1	25

202 (1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS

DESCRIPTION	STA	OFFSET	REMARKS
FIELD INLET	218+09	23 RT	
ROCKERY WALL	218+40	RT	±90' ENGINEER WILL DIRECT LIMITS OF REMOVAL
METAL GATE	218+90	RT	ACROSS KTN WELDING DRIVEWAY
ROCKERY WALL	219+20	RT	±75' REMOVE ENTIRE ROCKERY
INLET	226+07	32 RT	REMOVE OR ABANDON. SEE SEC. 202 OF SPECIAL PROVISIONS
INLET	227+83	31 RT	
INLET	228+46	30 RT	
INLET	229+00	32 RT	
202 (1) SHALL INCLUDE, BUT NOT BE LIMITED TO, THE ABOVE			

202 (4) REMOVAL OF CULVERT PIPE

PIPE NO.	STA	OFFSET	DIA.	LENGTH	TYPE	REMARKS
UNLABELED	217+97	58.6 RT	12"	~~38'~~ 37.7	CSP	SAWCUT AND REMOVE DOWNSTREAM SEGMENT TO STRUCTURE
UNLABELED	217+30-218+09	24 RT	12"	~~80'~~ 60.0	CSP	
P-203	219+62	44 LT-16 RT	18"	~~60'~~ 60.3	CSP	
P-204	226+15	34 LT-32 RT	30"	67' 67	CSP	SEE SECTION 202 OF SPECIAL PROVISIONS
UNLABELED	227+83	40.4 RT	12"	9' 11.5	CSP	SAWCUT PIPE TO MATCH BACKSLOPE AND REMOVE DOWNSTREAM SEGMENT
P-204A	227+84-228+46	30 RT	18"	~~84'~~ 63.7	CSP	
P-204B	228+46-229+00	31 RT	18"	~~54'~~ 54.0	CSP	
P-205	228+46	18 LT-30 RT	18"	~~88'~~ 77.	CSP	Filled w/ Grout Per CO#1
unlabled	229+86		12"	76.0	4 CMP	Pipe Shown/No Replacement Planned — Replace w/ 8" Perf. see P2

604 (5) INLET, TYPE A

STRUCTURE NO.	STA	OFFSET	TOP OF CASTING ELEV.	REMARKS
S-1	218+03.4	39.7 RT	72.27	FIELD INLET
S-2	227+83.2	36.0 RT	93.90	FIELD INLET
S-3	~~228+46.6~~ 228+22.6	36.0 RT	~~93.26~~ 93.5	FIELD INLET
S-4	229+00.1	34.0 RT	95.22	FIELD INLET
S-5	229+34	38.0 RT	95.59	MOUNTABLE CURB INLET

STATION AND OFFSET TAKEN TO CENTER OF STRUCTURE.

DRIVEWAY CULVERT SUMMARY

PIPE NO.	INLET STA	INLET OFFSET	INLET ELEV	OUTLET STA	OUTLET OFFSET	OUTLET ELEV	LENGTH	REMARKS
P-254A	S-1		69.2	217+44.2	39.8 RT	67.4	63' 68.0'	18" CPP
P-254B	217+96.7	58.6 RT	MATCH EXISTING	S-1		69.7	20' 20.7'	12" CSP
P-203A	223+03.5	49.4 LT	89.6	222+62.3	49.6 LT	88.6	43' 41.0'	18" CPP
P-203B	223+90.0	46.2 LT	91.8	223+57.3	47.9 LT	91.0	34' 40.0'	18" CPP
P-203C	225+77.9	39.8 RT	92.4	225+20.6	39.7 RT	91.4	55' 59.9'	18" CPP
P-205A	S-2		90.8	S-3		~~89.5~~ 90.0	~~63'~~ 38.0'	18" CPP
P-205B	S-4		91.5	S-3		~~89.7~~ 90.2	~~51'~~ 77.5'	18" CPP
P-206	S-5		91.9	S-4		91.6	~~34'~~ 32.7'	18" CPP

ROADWAY CROSS CULVERT SUMMARY

PIPE NO.	INLET STA	INLET OFFSET	INLET ELEV	OUTLET STA	OUTLET OFFSET	OUTLET ELEV	LENGTH	REMARKS
P-203	219+62.5	38.3 RT	75.60	219+59.6	50.0 LT	66.45	90' 90.1'	24" CPP, CLASS I RIPRAP AT OUTLET
P-205	S-3		~~89.8~~ 89.26	~~228+22.6~~ 228+46.7	~~44.0 LT~~ 34.9 LT	~~84.5~~ 87.82	~~70'~~ 77.6'	24" CPP, CLASS I RIPRAP AT OUTLET
CO#	229+86-50 Rt			229+86	23 Lt		72.4	Replace Existing CMP w/ 8" CPP Perf Pipe
CO#	~229+50 Rt to 229+35		~93.6	S-5	See As-Bit		41.7	8" CPP Perf Pipe to drain into S-5

202 (10) SINGLE MAIL BOX INSTALLATION

STA	OFFSET	REMARKS
219+44	RT	10540 NTH (KTN WELDING). INSTALL BETWEEN SHOULDER AND FUTURE PATH.
~~Not used 230+95~~ 230+45	~~LT~~ Rt	Relocated after Redesign of Parking Lot Access & addition of Traffic Island

SEE STANDARD DRAWING M-20.12

202 (11) MULTIPLE MAIL BOX INSTALLATION

STA	OFFSET	REMARKS
217+16	RT	3 BOXES. INSTALL BETWEEN SHOULDER AND FUTURE PATH.
227+24	RT	5 BOXES. INSTALL BETWEEN SHOULDER AND FUTURE PATH.

SEE STANDARD DRAWING M-23.12

230+45 Rt 2 Boxes between Shldr & Path

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

DESIGNED BY: J. WEAVER
DRAWN BY: J. WEAVER

SUMMARIES

PATH: O:\KTN\67423\PLANSET\67423_D1-2_SUMS.DWG
TAB: D1 DLESTER

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
HHE-0920(24) 67423	2009	D1	25

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

639 (1) RESIDENCE DRIVEWAY

DRIVEWAY	STA	R1/R2	WIDTH	LENGTH OF PAVING	AREA OF PAVING (SY)	REMARKS
COLLINS CT.	217+67.24	40' / 20'	14'	20'	79	SEE SHEET G1
PAULF ROAD	222+71.63	40'	20'	20'	121	SEE SHEET G1
10641 NTH	223+65	20'	14'	20'	52	
10681 NTH	225+70	20'	20'	20'	65	
GENA ROAD	226+50.00	20'	20'	20'	65	SEE SHEET G2
10690 NTH HOUSE	227+50	20'	30'	20'	87	
10741 NTH	228+72.00	20'	14'	20'	53	SEE SHEET G4
HODGMAN LANE	230+78.45	20'	20'	20'	65	SEE SHEET G2

639 (2) COMMERCIAL DRIVEWAY

DRIVEWAY	STA	R1/R2	WIDTH	LENGTH OF PAVING	AREA OF PAVING (SY)	REMARKS
10526 NTH	217+74.14	40'	30'	35.9'	195	SEE SHEET G3
KTN WELDING	218+93.38	40'	30'	31.1'	175	SEE SHEET G3
10690 NTH WAREHOUSE	225+56.20	40'	30'	51.5'	259	SEE SHEET G4
LIGHTHOUSE TESORO	228+50	-	-	-	424	SEE SHEET G5
ANCHORWOOD CT	229+06.81	40' / -	28'	-	154	SEE SHEET G5
LIGHTHOUSE GROCERY	230+25	40'	30'	35'	192	

SEE DRIVEWAY DETAIL ON SHEET J1

611 (3) RIPRAP, CLASS I

PIPE OUTLET	AREA (SY)	REMARKS
P-203	5	
P-205	5	

SEE DETAIL ON SHEET T3

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA · CHAD J. HOWARD · CE-10835 · REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER
DRAWN BY: J. WEAVER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

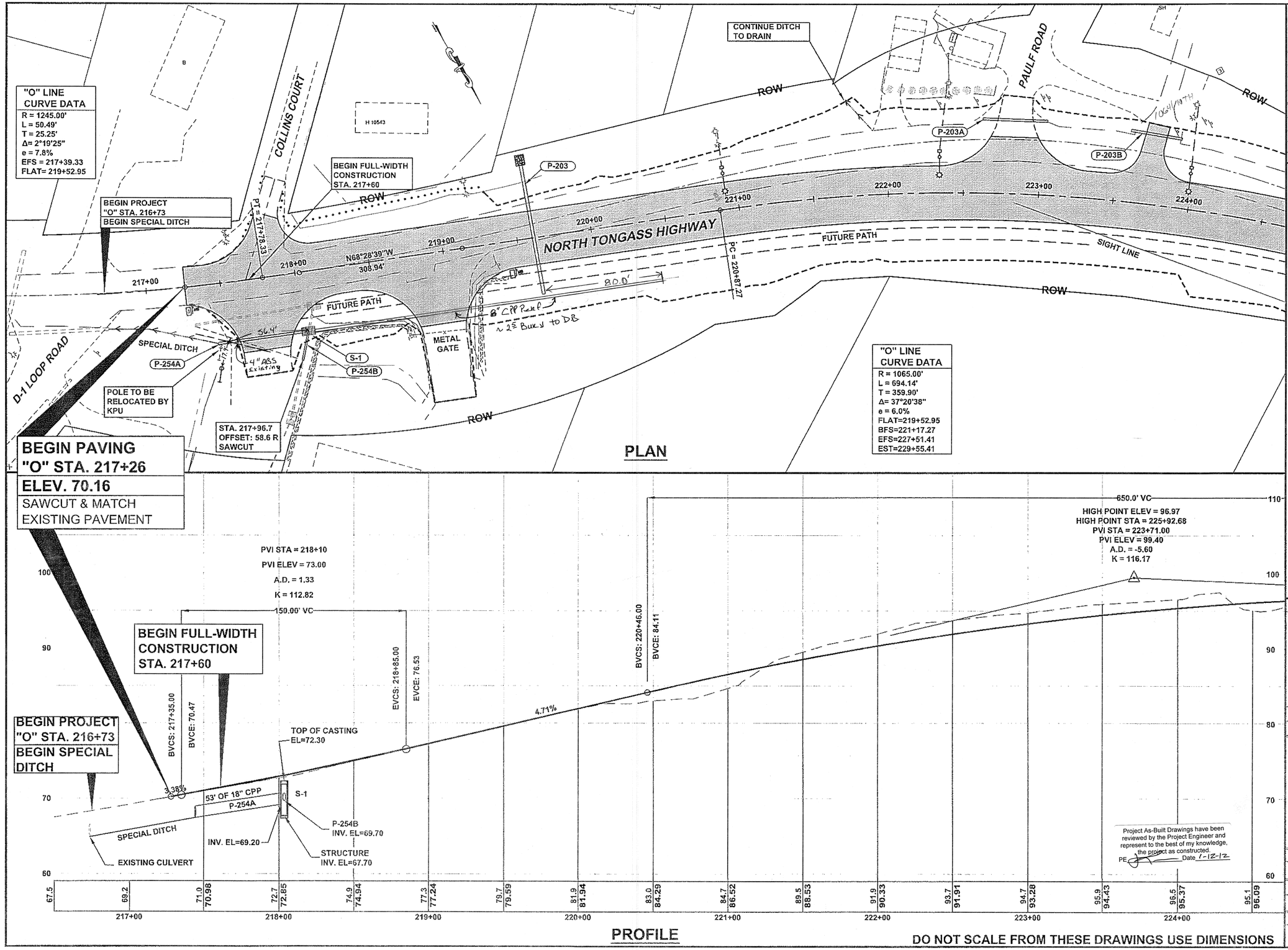
SUMMARIES

PATH: Q:\KTN\67423\PLANSET\67423_D1-2_SUMS.DWG
TAB: D2 WILSON, BRIAN G (DOT)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1/12/12

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	D2	25



PATH:
Q:\KTN\67423\PLANSET\67423_F1-3_PLAN.DWG

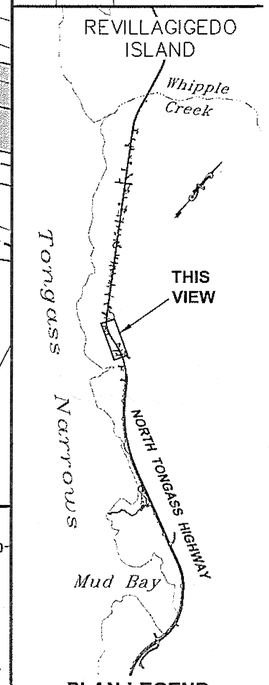
TAB: F1 WILSON, BRIAN C

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

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

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

PLAN & PROFILE

PROJECT DESIGNATION
HHE-0920(24) / 67423

STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
F1	25

0 10 20 30 40 50 75 100

NORTH

H

LIGHTHOUSE
GROCERY

ANCHORWOOD CT.

B 10730

GAS
STATION

CD #4 New Island & Striping

END ISLAND AT EDGE OF PAVEMENT.
SLOPE ENTIRE GUTTER PAN AWAY FROM ISLAND FOR DRAINAGE.

4" DOUBLE YELLOW

PERMANENT DELINEATORS AT EACH ISLAND END

12' 16' 8' MULTI-USE PATH 14' 8' MULTI-USE PATH

18" SOLID WHITE CHEVRON, 12' O.C. 45° ANGLE

4" SOLID WHITE

TEMPORARY DELINEATORS AT EACH STRIPED CORNER

4" SOLID WHITE BROKEN FOR ENTRANCE/ EXIT

NORTH TONGASS HWY

Sheet 3 of Sheet 13

20'38"
22'48"
5'
%

DRIVEWAY 10741

HODGMAN LANE

RESU
CONS
STA.
SAWC
EXIST

228+00

229+00

230+00

N31°08'01"W

486.90'

New 8" CPP Perf Pipe

STA: 230+58.00
RESUME FULL MI
PATH CONSTRUC

PT = 227+81.42

P-205

New S-3 & P-205 Locations

S-3

NORTH TONGASS HIGHWAY

MB

New 8" CPP Perf Pipe - Sand Swing Tie Down

PAVE ISLAND CENTER. PAID AS ASPHALT SIDEWALK

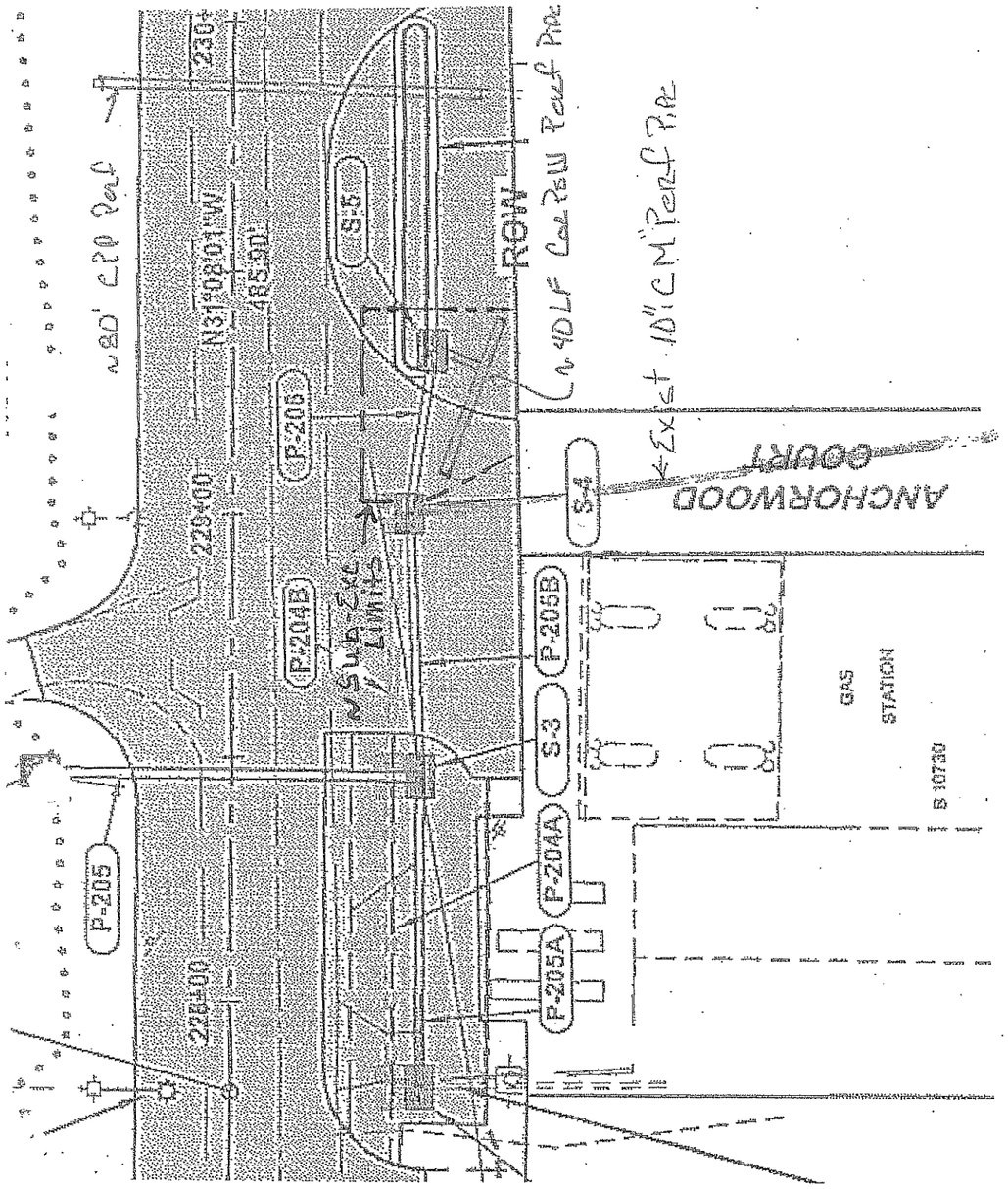
ANCHORWOOD CT.

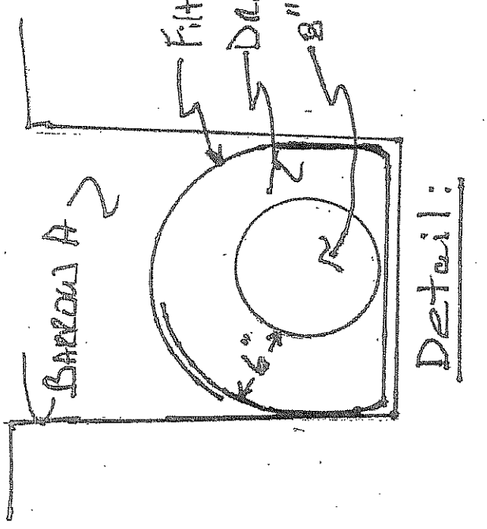
Existing 10" CMP Perf

N TONGASS HWY 10730

0 20

SCALE IN FEET





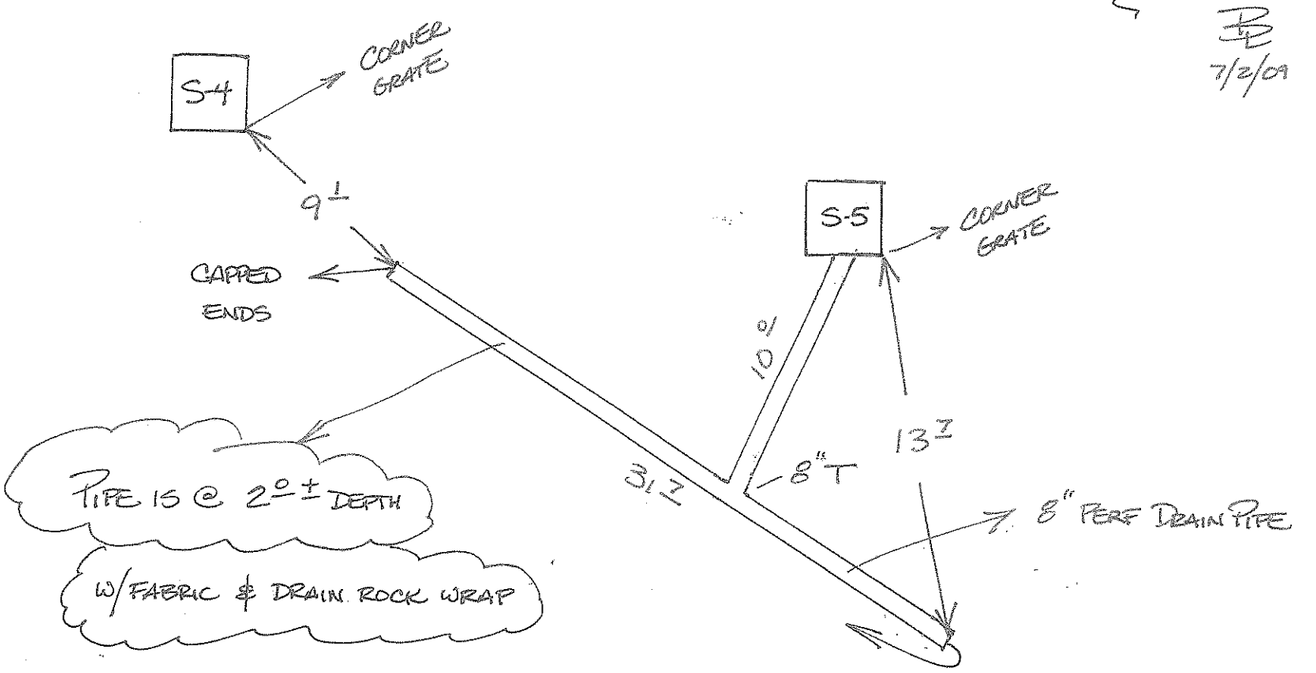
TI 67423

SWING TIES TO FIELD DRAIN

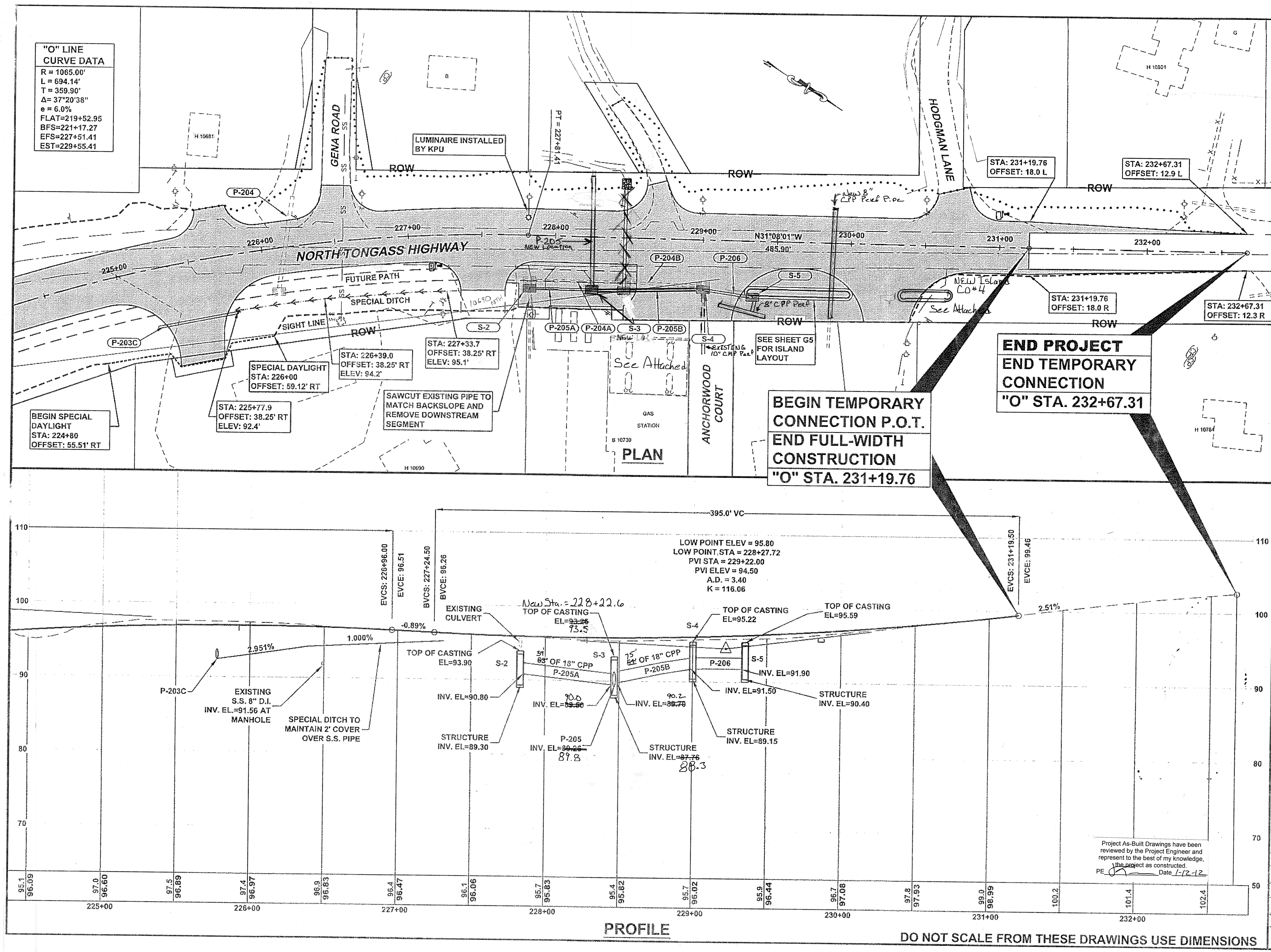
NOT TO SCALE!!

Sheet 3 of 3

BL 7/2/09



Perfpipe: 31.7' + 10.0' = 41.7 LF



"O" LINE CURVE DATA
R = 1065.00'
L = 694.14'
T = 359.90'
Δ= 37°20'38"
e = 6.0%
FLAT=219+52.95
BFS=221+17.27
EFS=227+51.41
EST=229+55.41
GENA ROAD
HODGMAN LANE
LUMINAIRE INSTALLED BY KPU
PT = 227+81.41
ROW
NORTH TONGASS HIGHWAY
N31°08'01"W
485.90'
FUTURE PATH
SPECIAL DITCH
SIGHT LINE
STA: 231+19.76 OFFSET: 18.0 L
STA: 232+67.31 OFFSET: 12.9 L
STA: 231+19.76 OFFSET: 18.0 R
STA: 232+67.31 OFFSET: 12.3 R
SPECIAL DAYLIGHT STA: 226+00 OFFSET: 59.12' RT
STA: 226+39.0 OFFSET: 38.25' RT ELEV: 94.2'
STA: 227+33.7 OFFSET: 38.25' RT ELEV: 95.1'
SAWCUT EXISTING PIPE TO MATCH BACKSLOPE AND REMOVE DOWNSTREAM SEGMENT
STA: 225+77.9 OFFSET: 38.25' RT ELEV: 92.4'
BEGIN SPECIAL DAYLIGHT STA: 224+80 OFFSET: 55.51' RT
SEE SHEET G5 FOR ISLAND LAYOUT
GAS STATION
ANCHORWOOD COURT
PLAN
BEGIN TEMPORARY CONNECTION P.O.T.
END FULL-WIDTH CONSTRUCTION
"O" STA. 231+19.76
END PROJECT
END TEMPORARY CONNECTION
"O" STA. 232+67.31
REVILLAGIGEDO ISLAND
Whipple Creek
Tongass Narrows
THIS VIEW
NORTH TONGASS HIGHWAY
Mud Bay
PLAN LEGEND
395.0' VC
LOW POINT ELEV = 95.80
LOW POINT STA = 228+27.72
PVI STA = 229+22.00
PVI ELEV = 94.50
A.D. = 3.40
K = 116.06
EVCS: 226+96.00
EVCE: 96.51
BVCS: 227+24.50
BVCE: 96.26
EVCS: 231+19.50
EVCE: 99.46
-0.89%
2.51%
2.951%
1.000%
EXISTING CULVERT
TOP OF CASTING EL=93.90
TOP OF CASTING EL=95.22
TOP OF CASTING EL=95.59
OF 18" CPP
P-205A
P-205B
P-206
INV. EL=90.80
INV. EL=91.90
INV. EL=91.50
STRUCTURE INV. EL=90.40
STRUCTURE INV. EL=89.15
STRUCTURE INV. EL=89.30
EXISTING S.S. 8" D.I. INV. EL.=91.56 AT MANHOLE
SPECIAL DITCH TO MAINTAIN 2' COVER OVER S.S. PIPE
PROFILE
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\67423\PLANSET\67423_F1-3_PLAN.DWG

TAB: F2 WILSON, BRIAN C

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: C. HOWARD

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

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

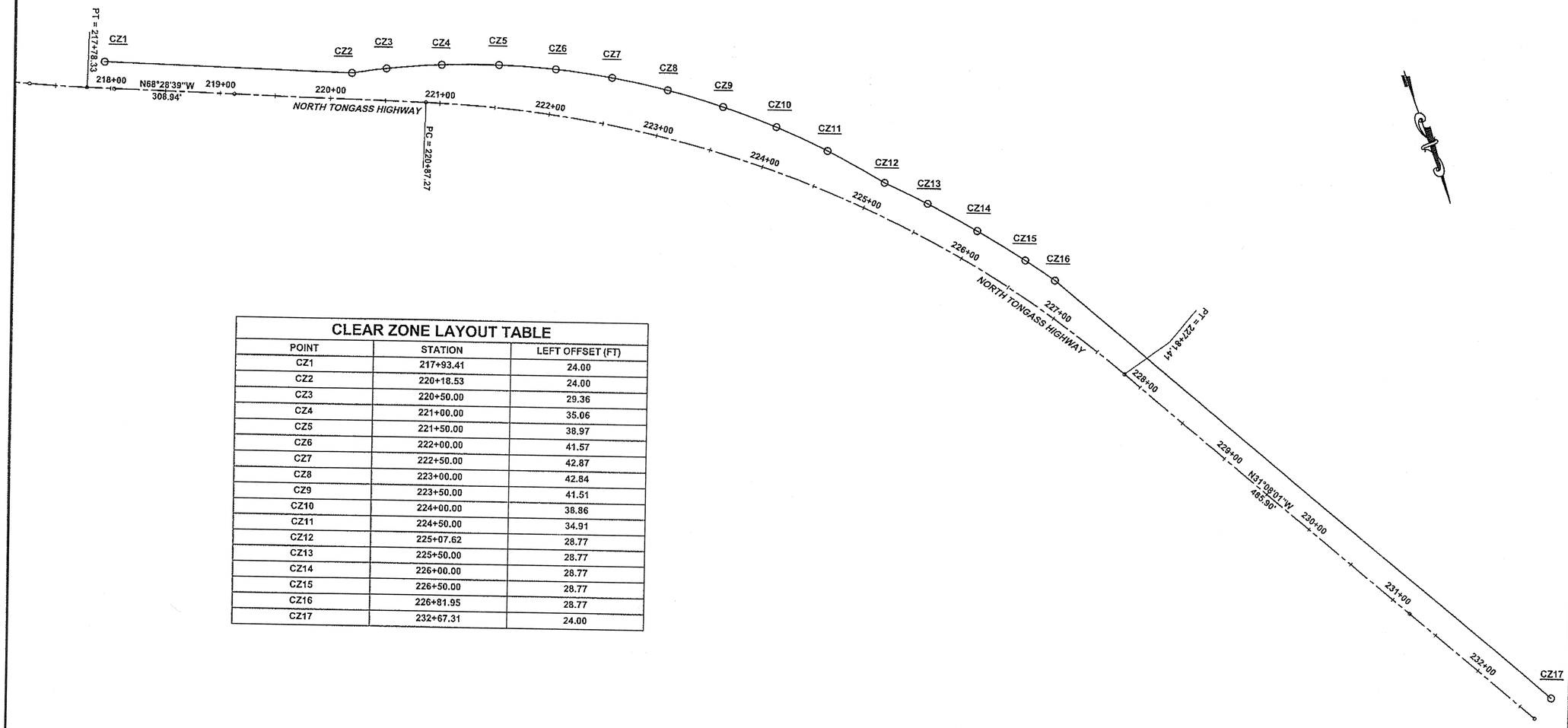
KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS PROJECT #67423

PLAN & PROFILE

PROJECT DESIGNATION: HHE-0920(24) / 67423

STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
F2	25



CLEAR ZONE LAYOUT TABLE		
POINT	STATION	LEFT OFFSET (FT)
CZ1	217+93.41	24.00
CZ2	220+18.53	24.00
CZ3	220+50.00	29.36
CZ4	221+00.00	35.06
CZ5	221+50.00	38.97
CZ6	222+00.00	41.57
CZ7	222+50.00	42.87
CZ8	223+00.00	42.84
CZ9	223+50.00	41.51
CZ10	224+00.00	38.86
CZ11	224+50.00	34.91
CZ12	225+07.62	28.77
CZ13	225+50.00	28.77
CZ14	226+00.00	28.77
CZ15	226+50.00	28.77
CZ16	226+81.95	28.77
CZ17	232+67.31	24.00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

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PATH:
Q:\KTN\67423\PLANSET\67423_F1-3_PLAN.DWG

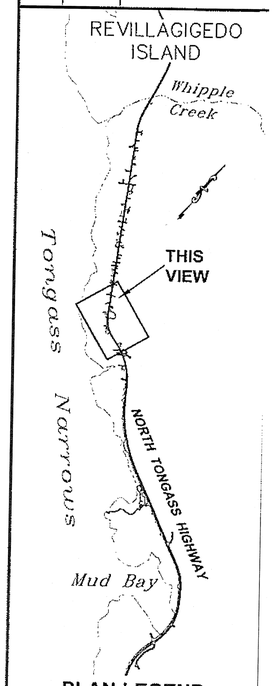
TAB: F3 WILSON, BRIAN C

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

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

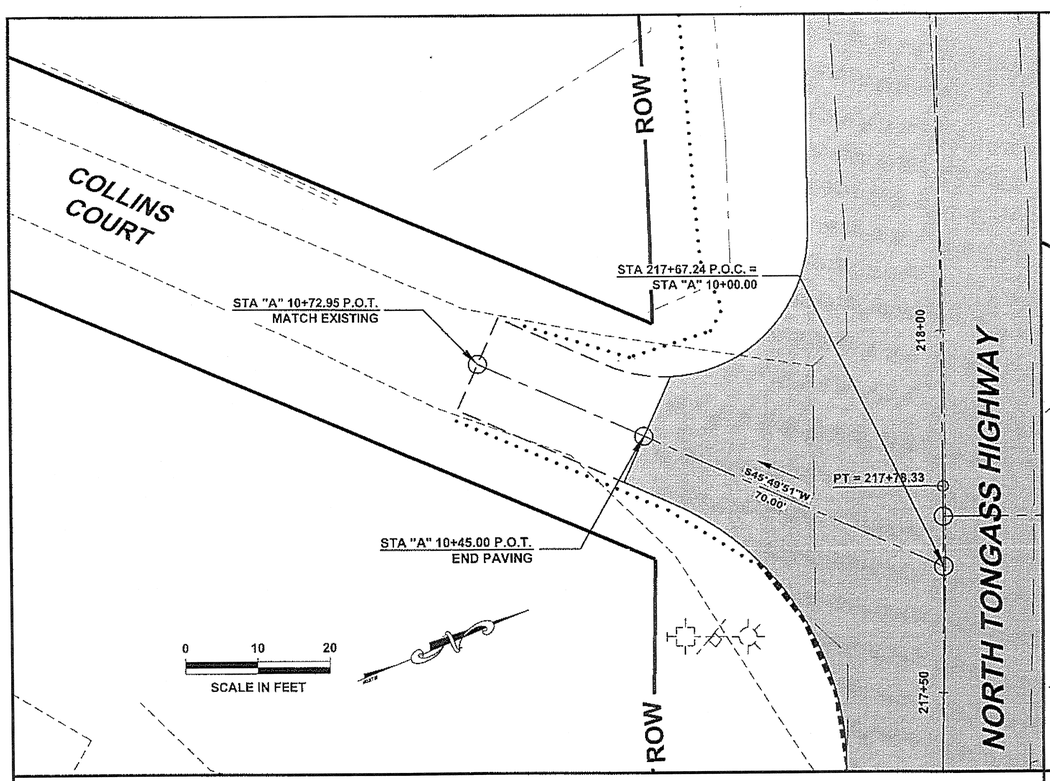
KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

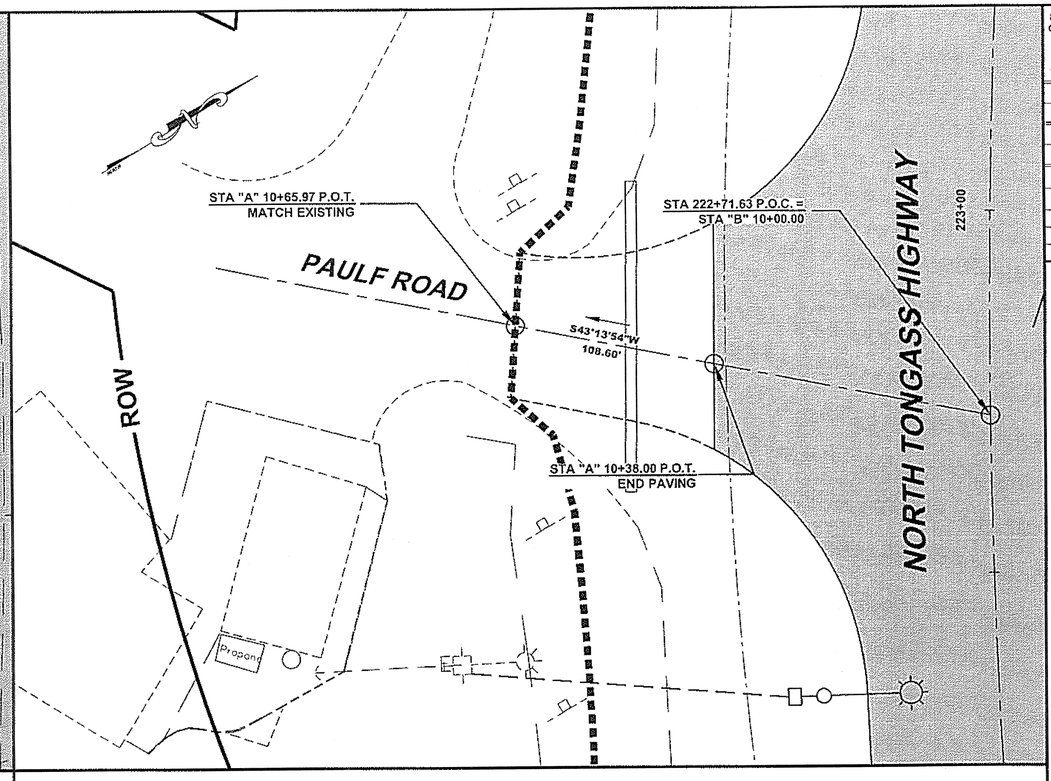
CLEAR ZONE LAYOUT PLAN

PROJECT DESIGNATION
HHE-0920(24) / 67423

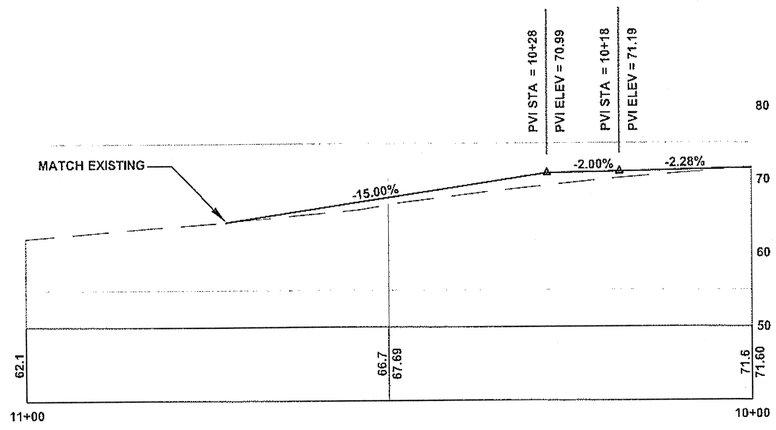
STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
F3	25

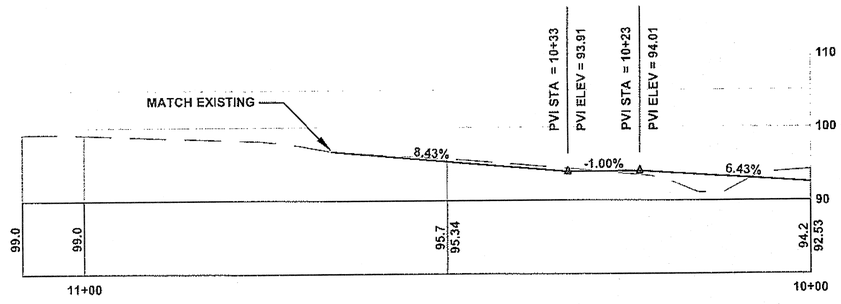




ALL VPI SHALL BE ROUNDED PER NOTE 6 ON SHEET J1



COLLINS COURT



PAULF ROAD

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PE _____ Date 1-12-12

SEE SHEET J1 FOR DRIVEWAY DETAILS
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
Q:\KTN\67423\PLANSET\67423_G1-5_APPROACHES

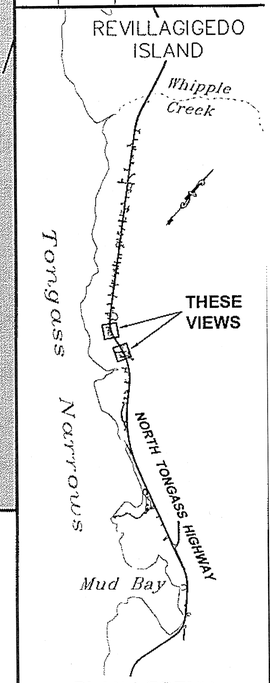
TAB: G1 WILSON, BRIAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD E. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

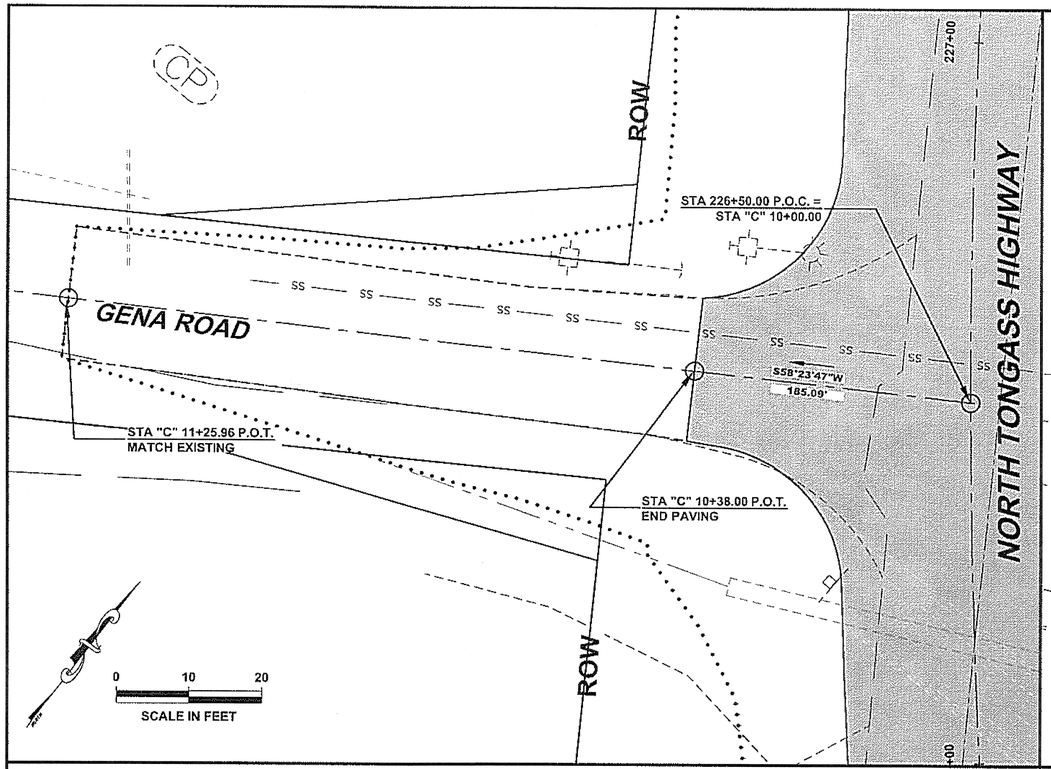
DRAWN BY: J. WEAVER

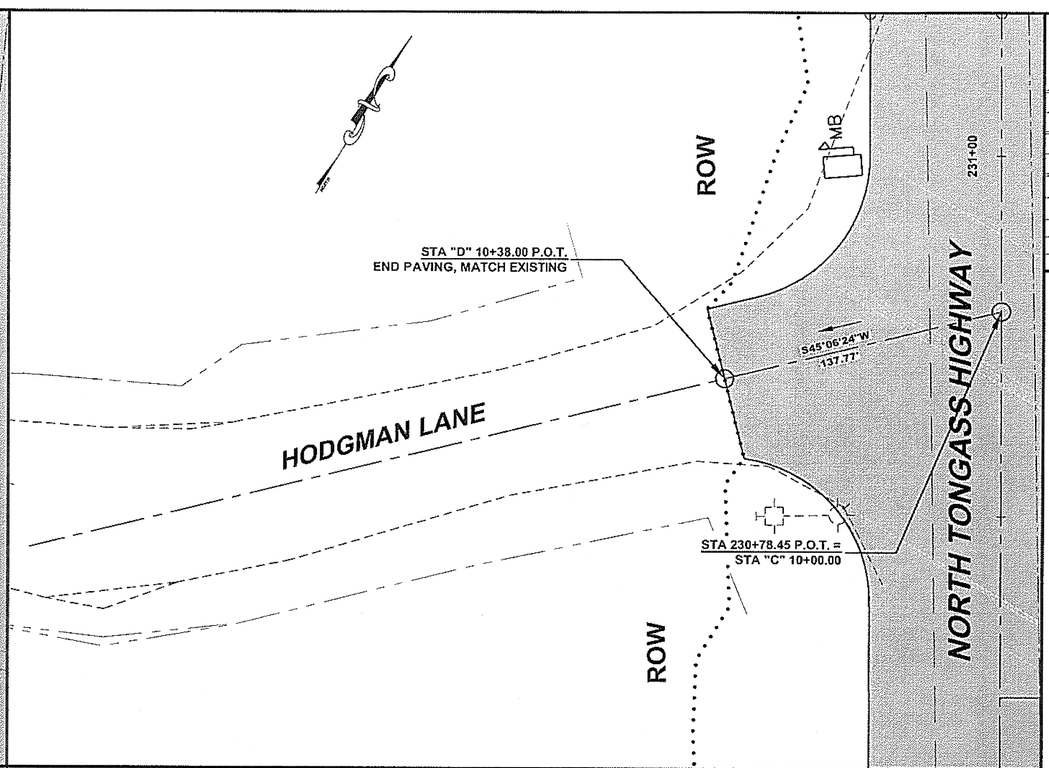
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

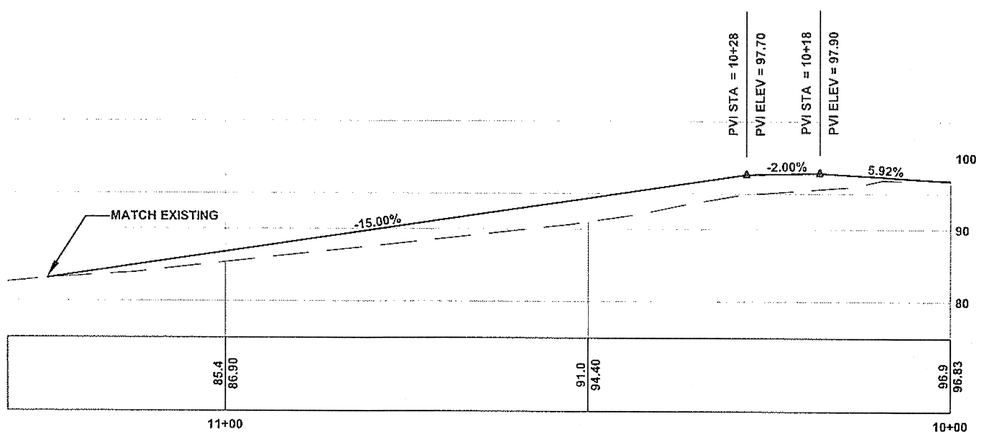
APPROACH PLAN & PROFILE

PROJECT DESIGNATION	
HHE-0920(24) / 67423	
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
G1	25

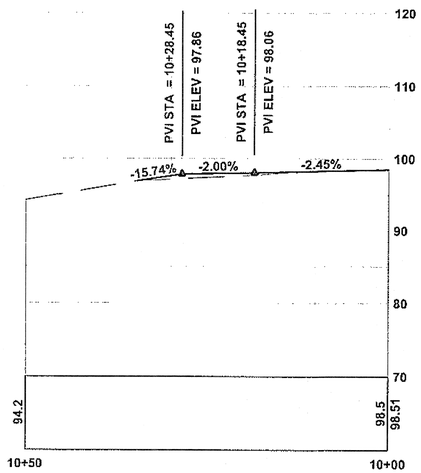




ALL VPI SHALL BE ROUNDED PER NOTE 6 ON SHEET J1



GENA ROAD



HODGMAN LANE

SEE SHEET J1 FOR DRIVEWAY DETAILS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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

PE _____ Date 1-12-12

PATH: Q:\KTN\67423\PLANSET\67423_G1-5_APPROACHES

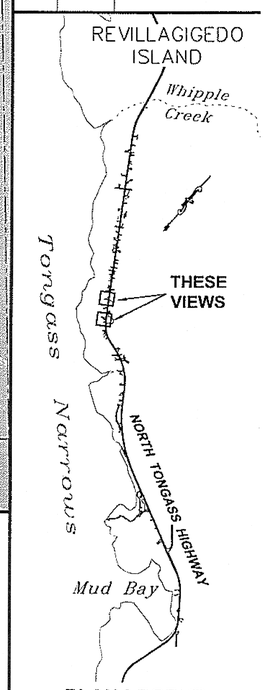
TAB: G2 WILSON, BRIAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

DRAWN BY: J. WEAVER

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

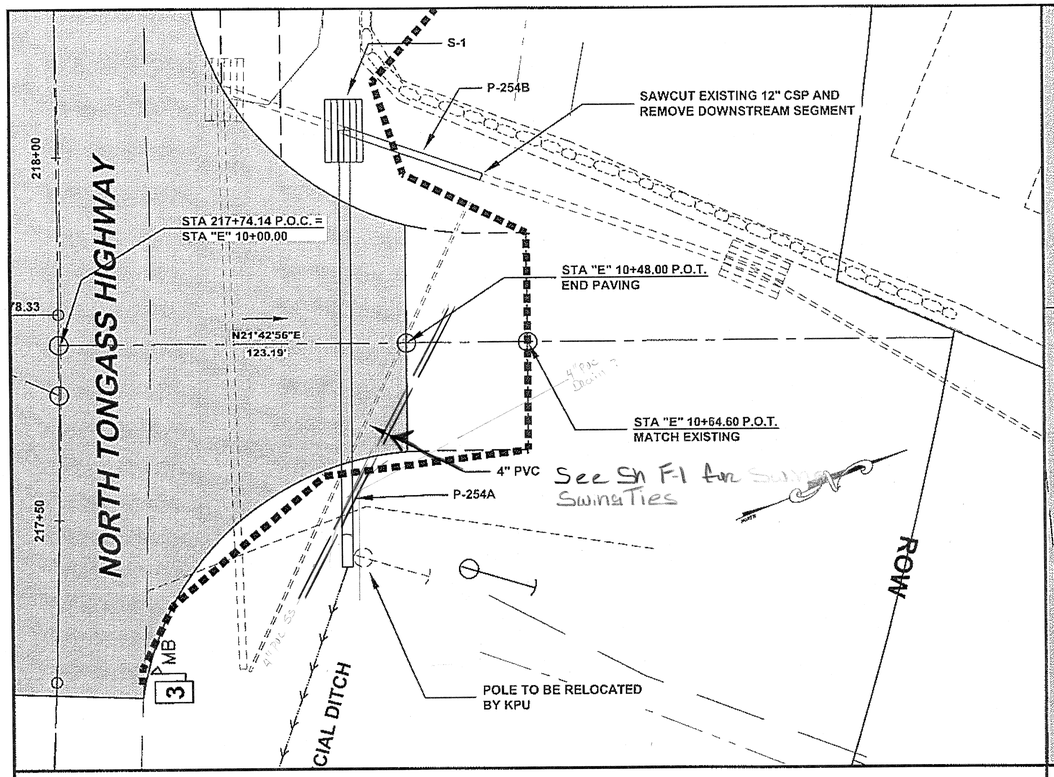
KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

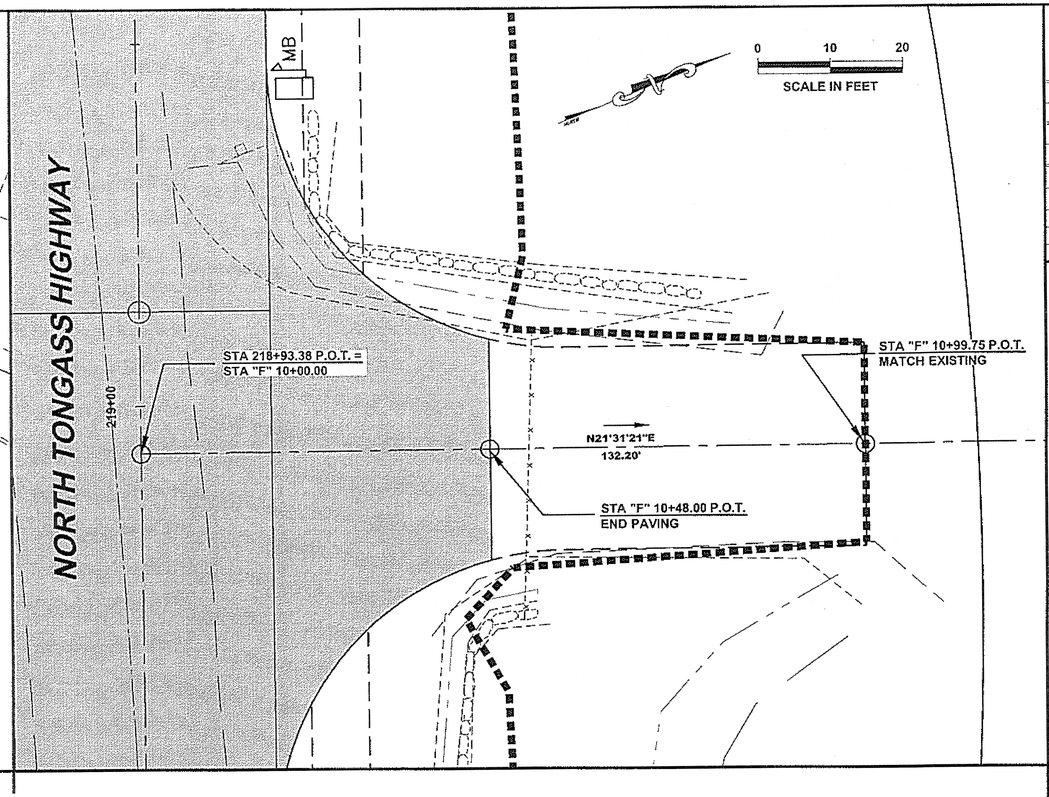
APPROACH PLAN & PROFILE

PROJECT DESIGNATION

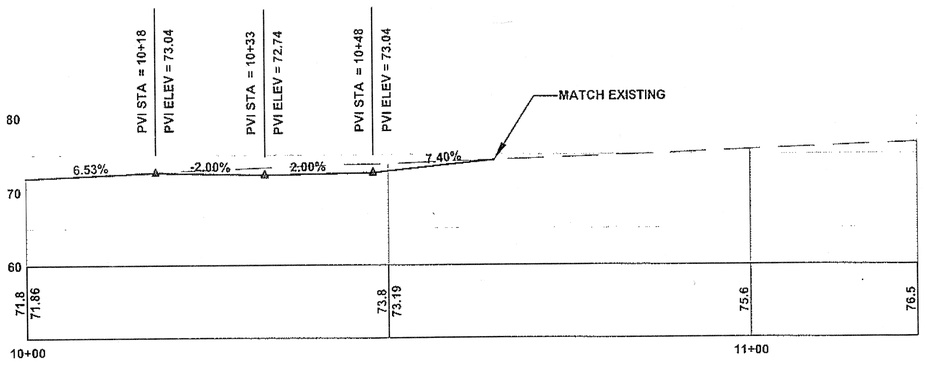
HHE-0920(24) / 67423

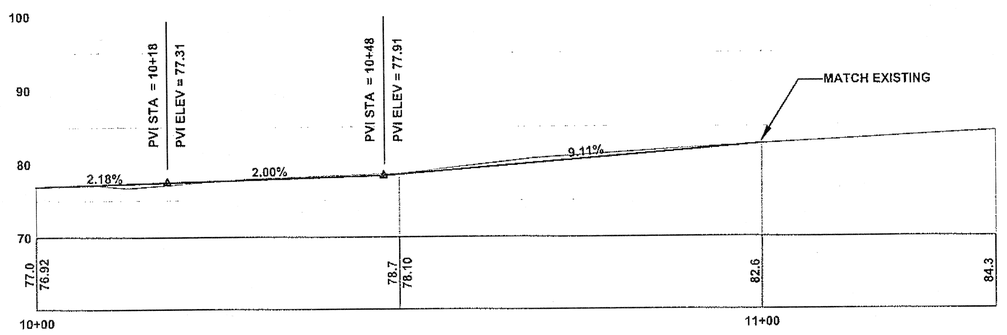
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
G2	25





ALL VPI SHALL BE ROUNDED PER NOTE 6 ON SHEET J1





10526 NORTH TONGASS HIGHWAY

KETCHIKAN WELDING

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-/2-/2

SEE SHEET J1 FOR DRIVEWAY DETAILS
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
Q:\KTN\67423\PLANSET\67423_G1-5_APPROACHES

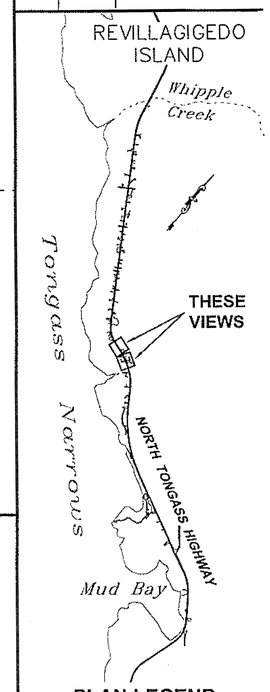
TAB: G3 WILSON, BRIAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHARLES HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

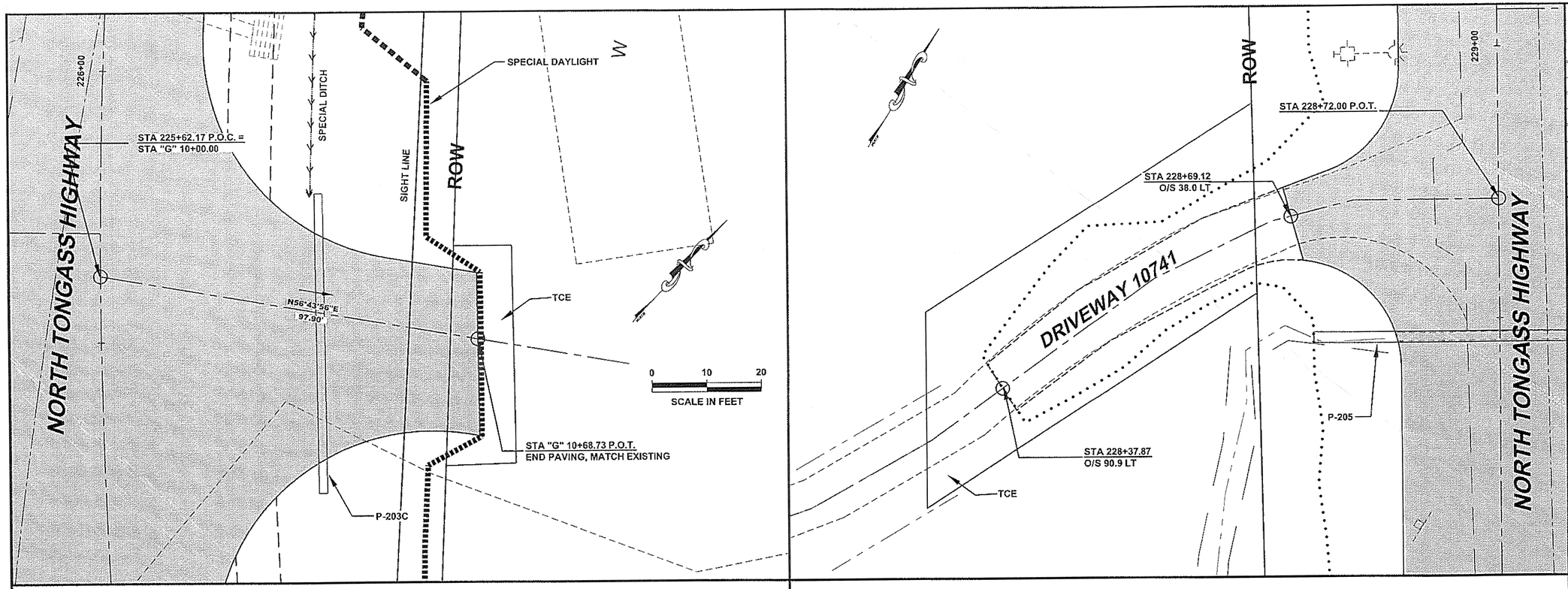
DRAWN BY: J. WEAVER

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

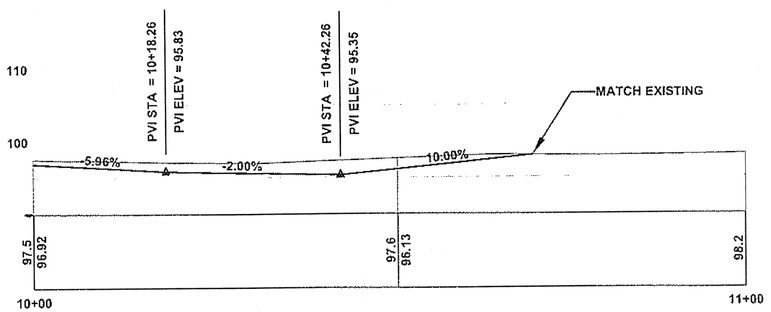
KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

APPROACH PLAN & PROFILE

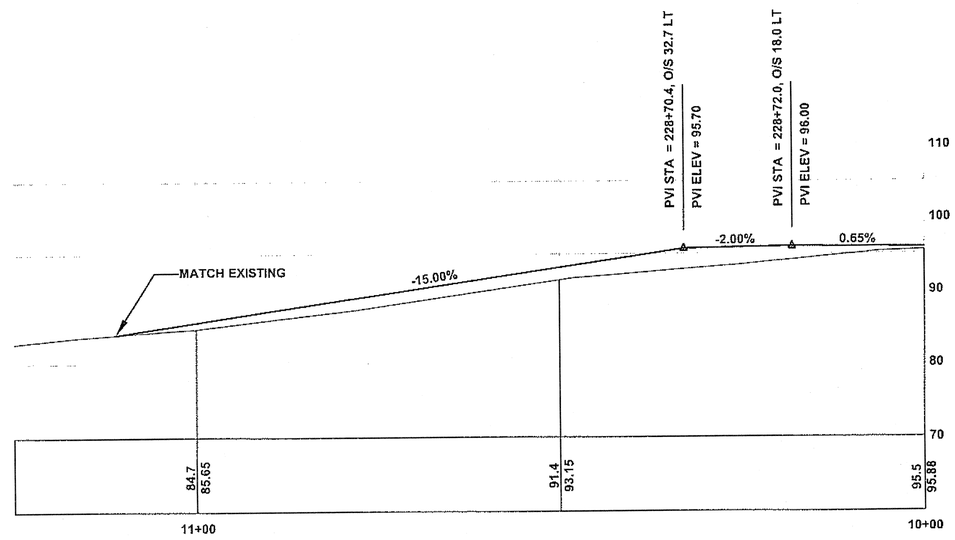
PROJECT DESIGNATION	
HHE-0920(24) / 67423	
STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
G3	25



ALL VPI SHALL BE ROUNDED PER NOTE 6 ON SHEET J1



10690 NORTH TONGASS HIGHWAY
WAREHOUSE ENTERANCE



10741 NORTH TONGASS HIGHWAY

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

SEE SHEET J1 FOR DRIVEWAY DETAILS
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH:
Q:\KTN\67423\PLANSET\67423_G1-5_APPROACHES

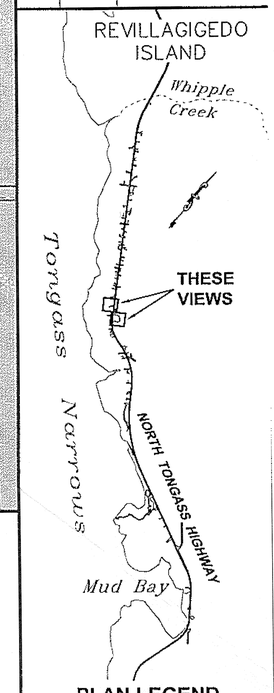
TAB: G4 WILSON, BRIAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

DRAWN BY: J. WEAVER

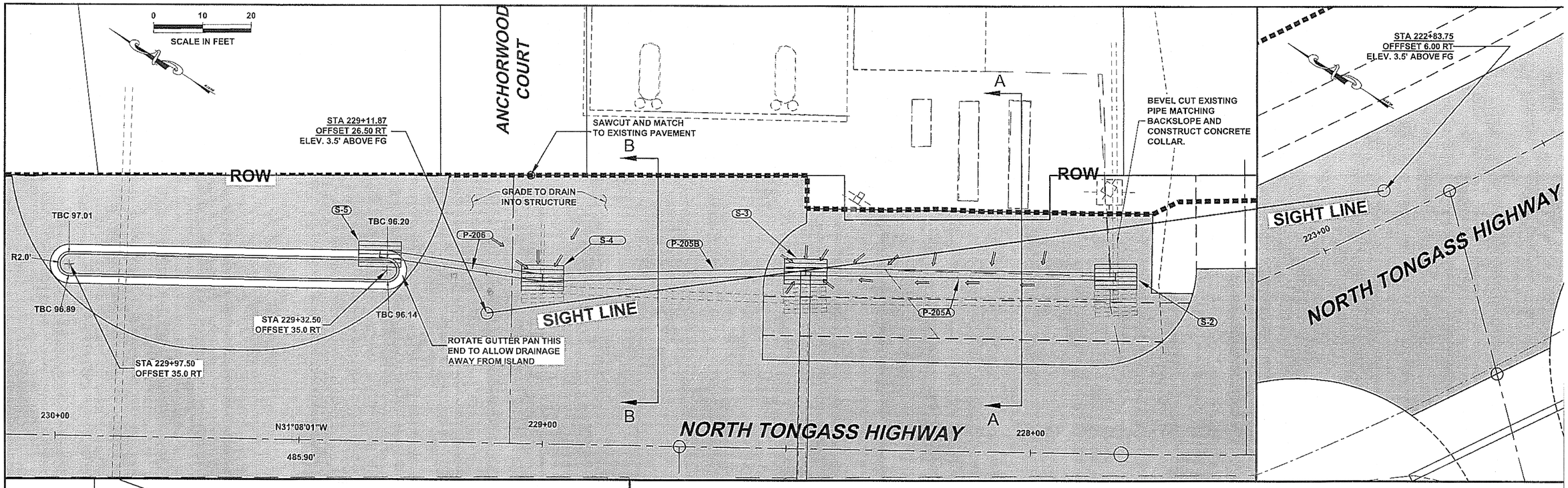
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES
DIVISION-SOUTHEAST REGION
KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

APPROACH PLAN & PROFILE

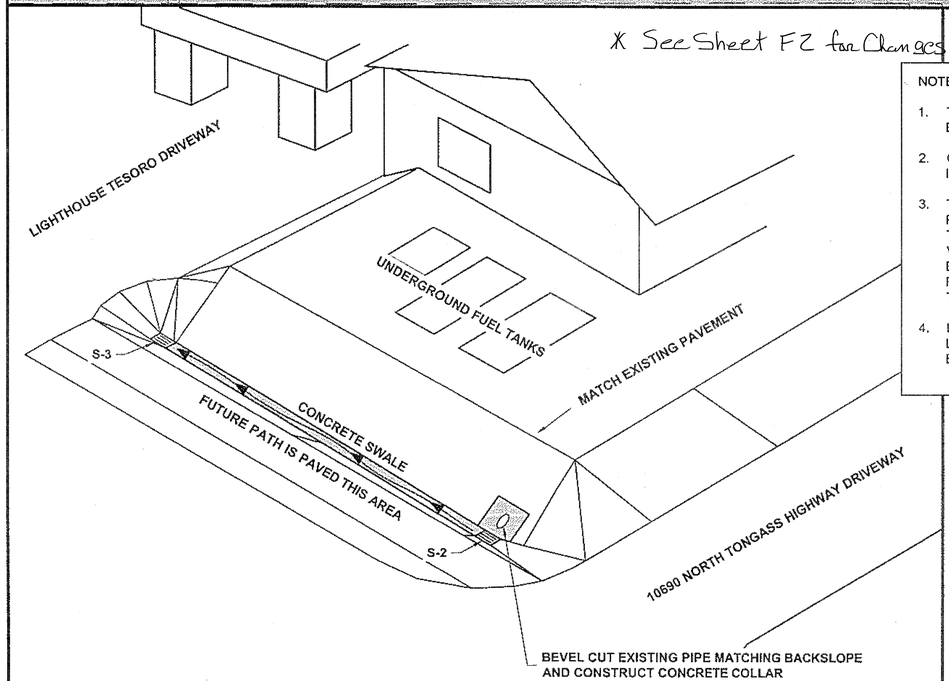
PROJECT DESIGNATION
HHE-0920(24) / 67423

STATE	YEAR
ALASKA	2009

SHEET NUMBER	TOTAL SHEETS
G4	25



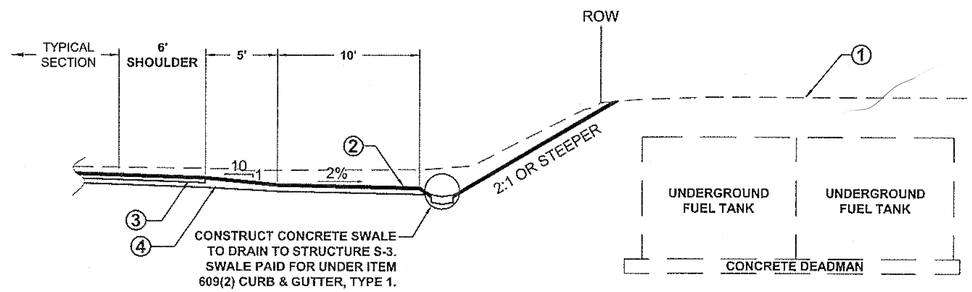
X See Sheet F2 for Changes to Drainage & Access



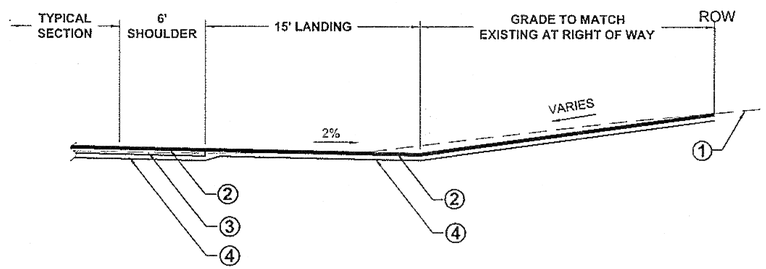
LIGHTHOUSE TESORO SWALE
ISOMETRIC VIEW

NOTES:

1. THE CONTRACTOR SHALL USE CAUTION WHILE EXCAVATING IN THE VICINITY OF THE FUEL TANKS.
2. CEASE WORK AND INFORM THE PROJECT ENGINEER IMMEDIATELY IF THE FUEL TANKS ARE DAMAGED.
3. THE LIMIT OF EXCAVATION IS THAT WHICH WILL PROVIDE THE UNOBSTRUCTED SIGHT LINE SHOWN. THIS SIGHT LINE SHALL PROVIDE AN UNINTERUPTED VIEW ALONG ITS LENGTH, TAKING INTO ACCOUNT AN ELEVATION PROVIDED AT EACH END OF 3.5' ABOVE FINISHED GRADE, AFTER THE COVER OVER THE FUEL TANKS IS IN IT'S FINAL, PAVED CONDITION
4. IF IT BECOMES EVIDENT THAT THE REQUIRED SIGHT LINE CAN NOT BE EXCAVATED, INFORM THE PROJECT ENGINEER WHO WILL CONTACT AK DOT&PF DESIGN.



SECTION A-A
TYPICAL SECTION OVER UNDERGROUND FUEL TANKS



SECTION B-B
TYPICAL DRIVEWAY SECTION

LEGEND
1. EXISTING GROUND
2. 2" ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B
3. 3" ATB
4. 4" AGGREGATE BASE COURSE, GRADING D-1

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-11

CHECKED BY: C. HOWARD
STATE OF ALASKA — CHAS J. HOWARD — CE-10835 — REGISTERED PROFESSIONAL ENGINEER — 3-11-09
DESIGNED BY: J. WEAVER
DRAWN BY: J. WEAVER
PATH: O:\KTN\67423\PLANSET\67423_G1-5_APPROACHES.DWG
TAB: G5
WILSON, BRIAN G (DOT)

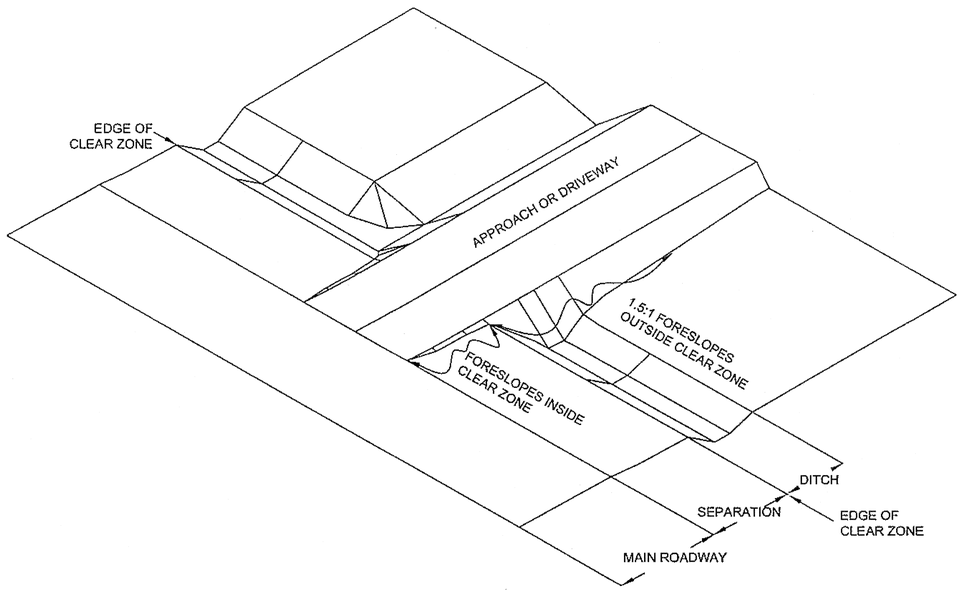
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

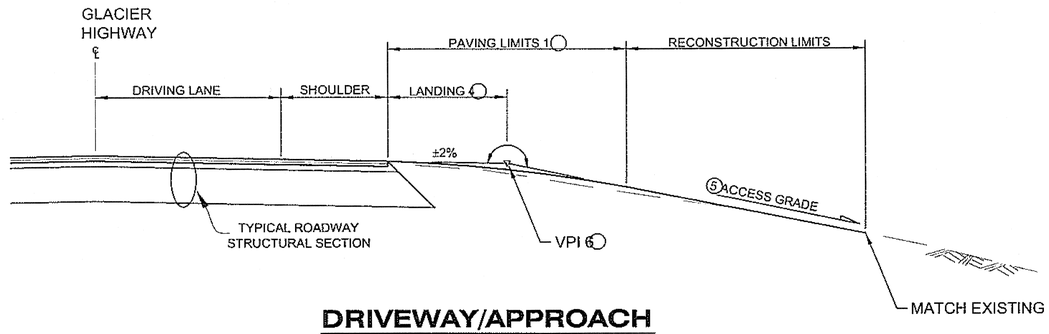
ANCHORWOOD CT. AND LIGHTHOUSE TESORO

REVISIONS NO.	DATE	DESCRIPTION

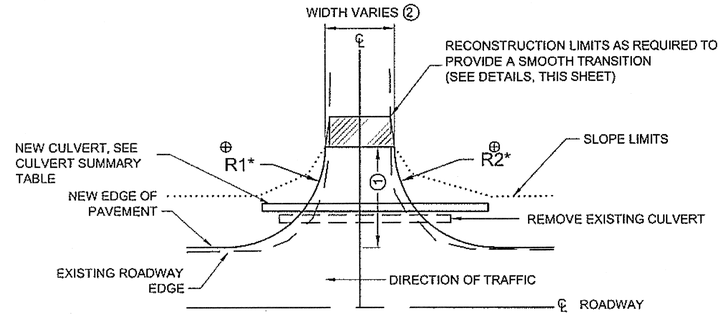
PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
HHE-0920(24) 67423	2009	G5	25



APPROACH/DRIVEWAY
SLOPES ③

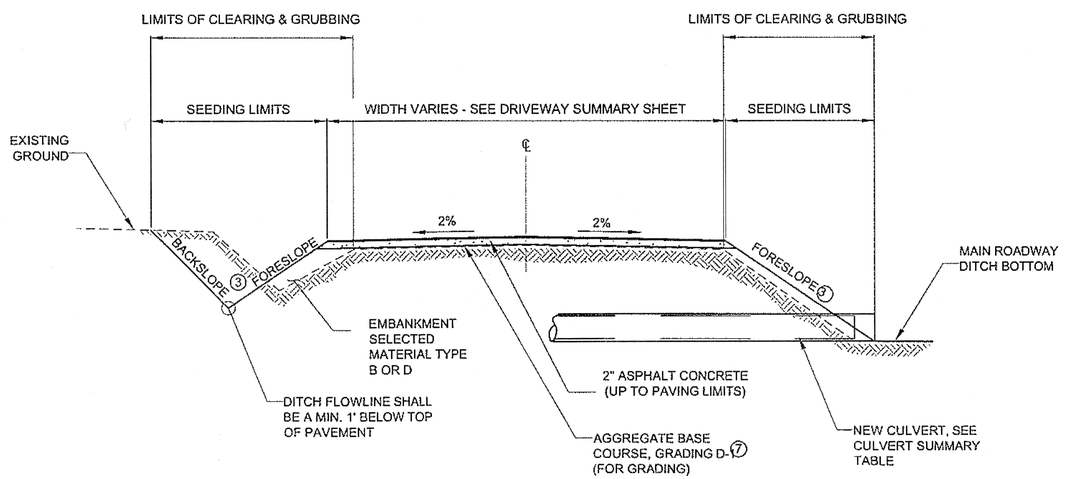


DRIVEWAY/APPROACH
TYPICAL PROFILE



*RADIUS VARIES, SEE
DRIVEWAY SUMMARY TABLE
SHEET D2

APPROACH / DRIVEWAY / APRON
PLAN VIEW



APPROACH/DRIVEWAY
TYPICAL SECTION

NOTES

1. LENGTH OF PAVING VARIES. SEE SHEET D2 FOR DRIVEWAY SUMMARY TABLES
2. WIDTH OF APPROACH/DRIVEWAY VARIES. SEE SHEET D2 FOR DRIVEWAY SUMMARY TABLES
3. APPROACH/DRIVEWAY FORESLOPES OR DITCH BACKSLOPES SHALL BE 6:1 OR FLATTER INSIDE THE CLEAR ZONE. BEYOND THE CLEAR ZONE THE SLOPE SHALL BE 1.5:1
4. UNLESS SPECIFIED, THE LANDING SHALL BE 10' FOR RESIDENTIAL DRIVEWAYS AND 30' FOR COMERCIAL DRIVEWAYS
5. UNLESS SPECIFIED, THE ALGEBRAIC DIFFERERENCE BETWEEN THE LANDING GRADE AND THE ACCESS GRADE SHALL NOT EXCEED 15% FOR RESIDENTIAL OR 8% FOR COMERCIAL DRIVEWAYS
6. ALL VPI SHALL BE SMOOTHED WITH A VERTICAL CURVE. VERTICAL CURVES SHALL NOT HAVE HUMPS OR DEPRESSIONS THAT EXCEED 3 $\frac{1}{2}$" IN A 10' CHORD
7. SUPPLEMENT EXISTING DRIVEWAY BASE COURSE, AS REQUIRED, TO PROVIDE 4" OF AGGREGATE BASE COURSE, GRADING D-1 UNDER THE ASPHALT CONCRETE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHADY. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER
DRAWN BY: J. WEAVER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

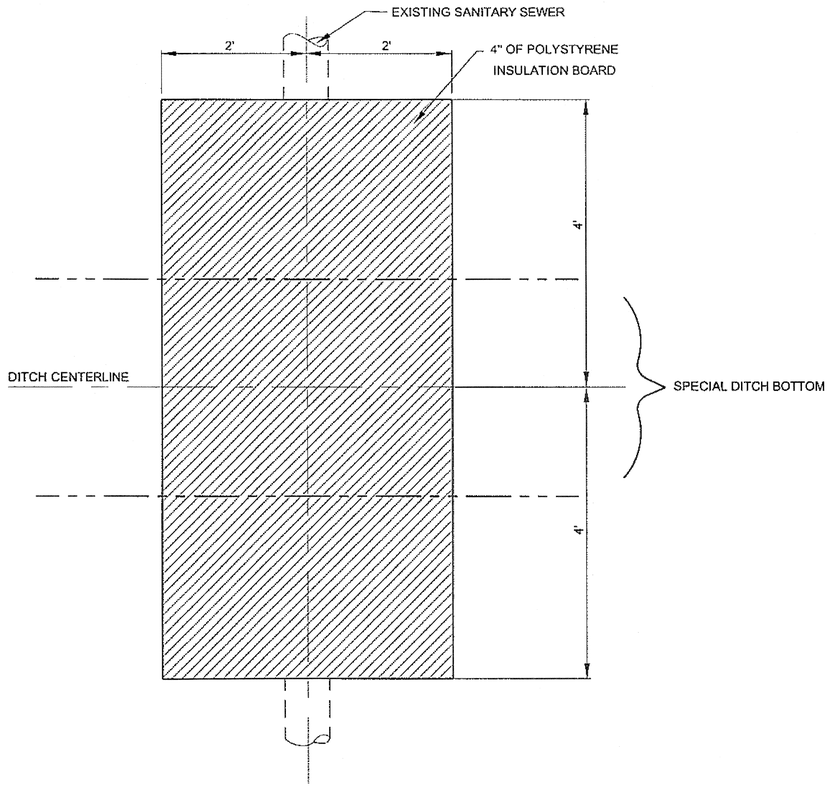
DRIVEWAY DETAILS

PATH: Q:\KTN\67423\PLANSET\67423_J1-2_DETAILS.DWG
TAB: J1 WILSON, BRIAN G (DOT)

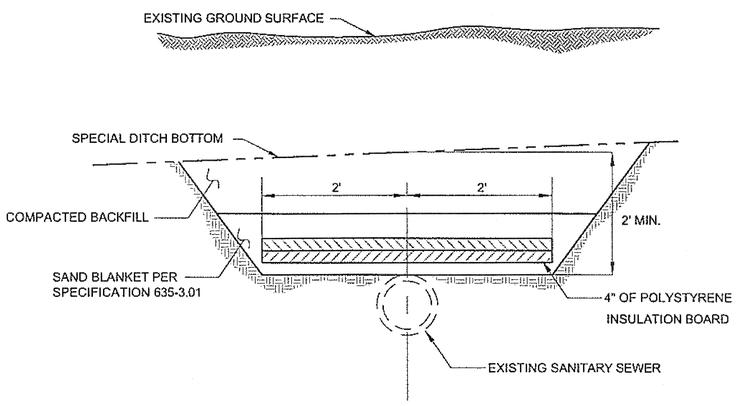
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	J1	25

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12



PLAN



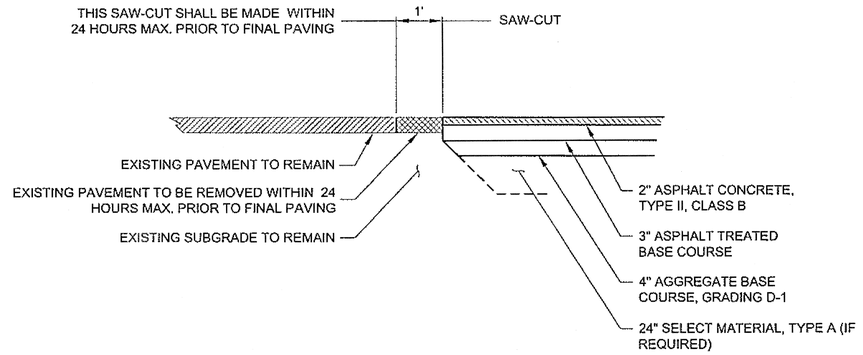
SECTION RIGID INSULATION

SANITARY SEWER AT STA 226+55.4

N.T.S.

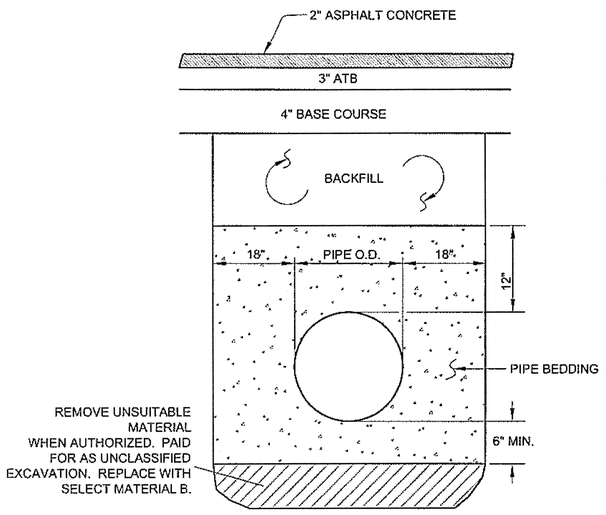
INSULATION NOTES:

1. INSTALL INSULATION AS SHOWN.
2. INSULATION IS INCIDENTAL TO OTHER ITEMS OF WORK AND WILL NOT BE MEASURED FOR PAYMENT.



PAVEMENT MATCH JOINT DETAIL

N.T.S.



CULVERT BEDDING/BACKFILL DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

DRAWN BY: J. WEAVER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

MISCELLANEOUS DETAILS

PATH: Q:\KTN\67423\PLANSET\67423_J1-2_DETAILS.DWG

TAB: J2 WILSON, BRIAN G (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

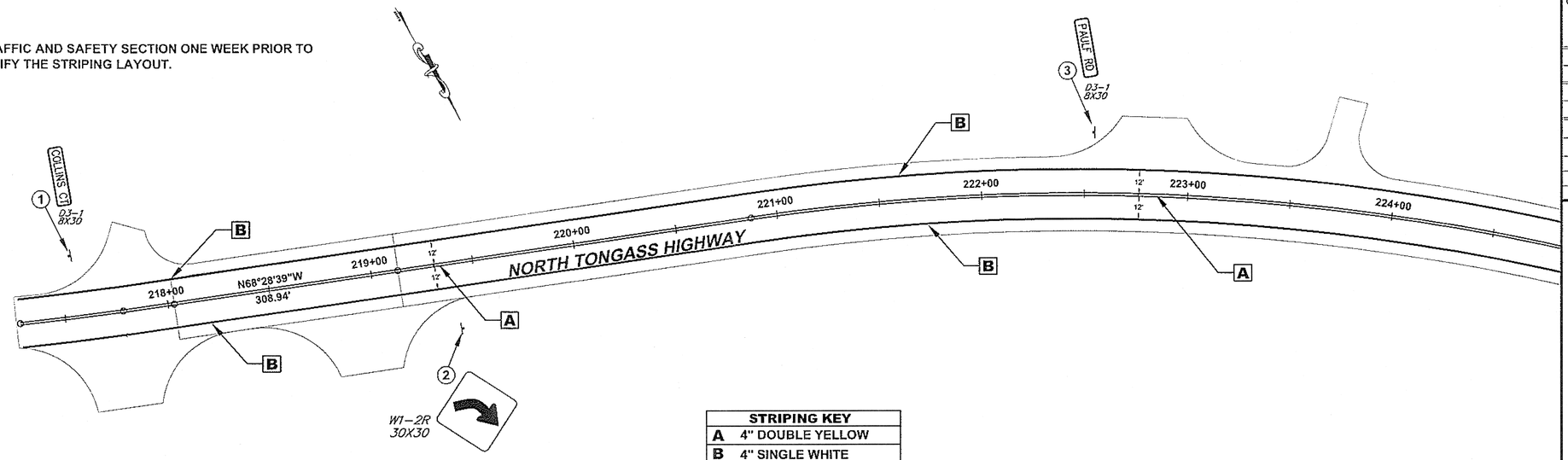
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	J2	25

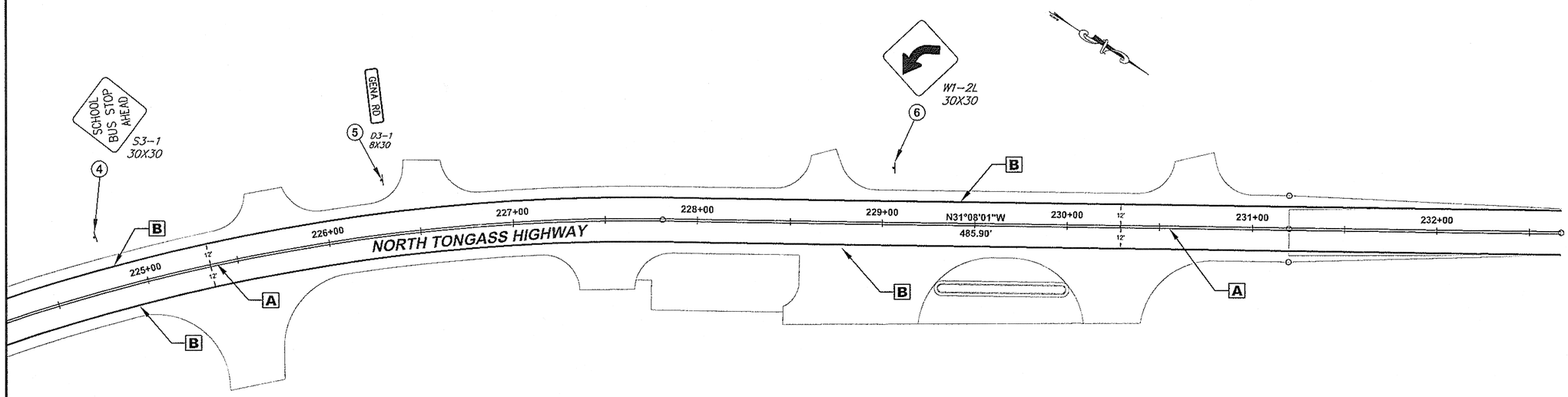
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 1-12-12

SIGNING NOTE:

CONTACT ADOT&PF TRAFFIC AND SAFETY SECTION ONE WEEK PRIOR TO STRIPING TO FIELD VERIFY THE STRIPING LAYOUT.





STRIPING KEY	
A	4" DOUBLE YELLOW
B	4" SINGLE WHITE

615 (2) REMOVE AND RELOCATE EXISTING SIGN

NUMBER	STATION	OFFSET	DESCRIPTION	ASDS CODE	DIM (HXW)	POST	REMARKS
1	217+56	30' LT	COLLINS CT	D3-1	8X30	2.5 PST	
2	219+40	33' RT	CURVE (ARROW)	W1-2R	30X30	2.5 PST	TAKE FUTURE PATH INTO ACCOUNT FOR MOUNTING HEIGHT
3	222+54	30' LT	PAULF RD	R3-1	8X30	2.5 PST	
4	224+78	30' LT	SCHOOL BUS STOP AHEAD	S3-1	36X36	2.5 PST	
5	226+32	30' LT	GENA RD	D3-1	8X30	2.5 PST	
6	229+06	30' LT	CURVE (ARROW)	W1-2L	30X30	2.5 PST	

NOTES
1. SIGN SIZES ARE GIVEN ONLY AS A REFERENCE. USE THE EXISTING SIGN.
2. SEE "S" SERIES STANDARD DRAWINGS FOR SIGN AND POST DETAILS.
3. LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the Project as constructed.
PE _____ Date 1-12-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\67423\PLANSET\67423_P1-2_STRIPING.DWG

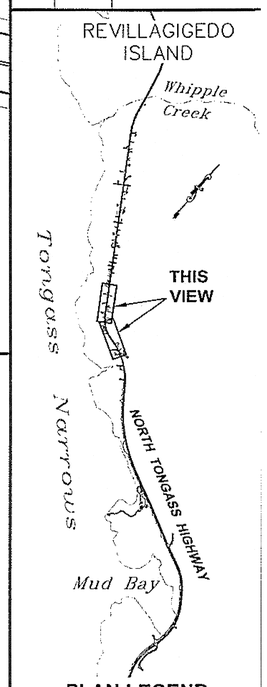
TAB: P1 WILSON, BRIAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
49th
CAROLYN MOSEHOUSE
CE-10691
REGISTERED PROFESSIONAL ENGINEER
3/2/09

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

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

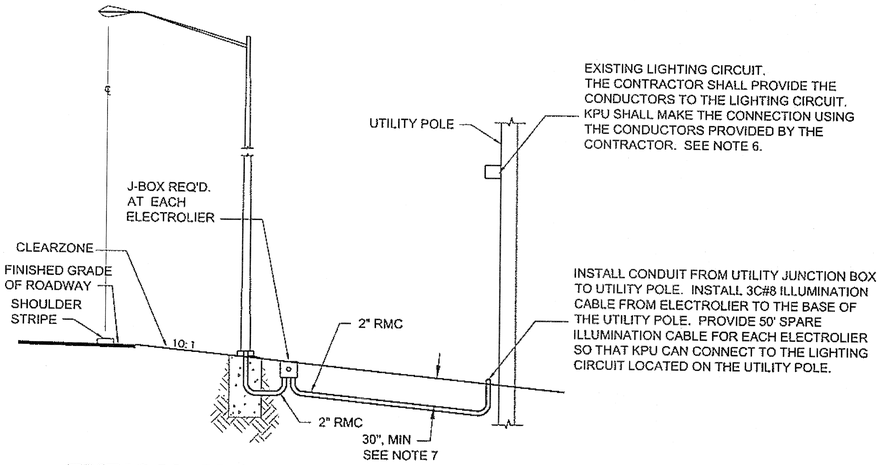
KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS PROJECT #67423

SIGNING AND STRIPING

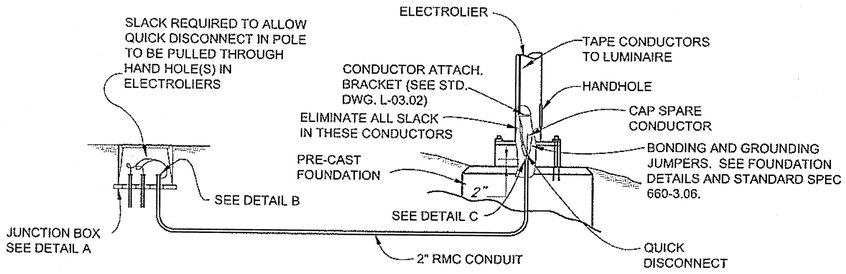
PROJECT DESIGNATION
HHE-0920(24) / 67423

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
P1	25

VSM 185-1

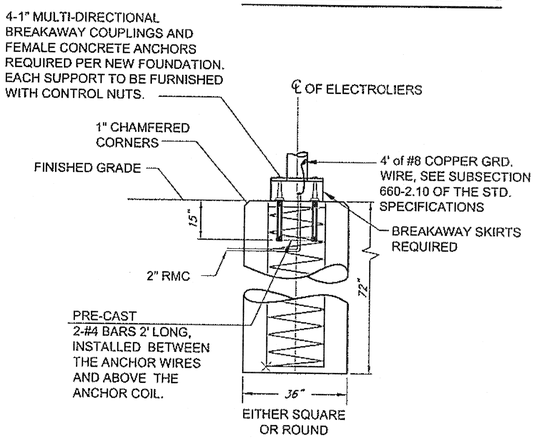


TYPICAL SECTION FOR ELECTROLIER

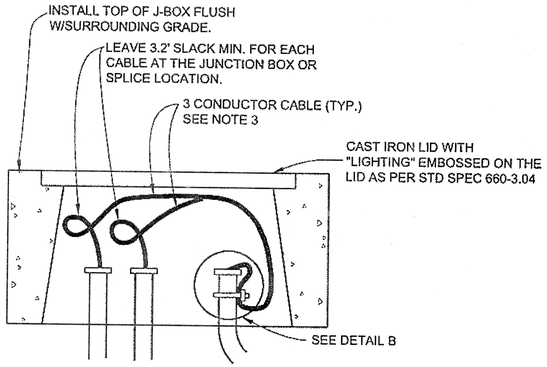


LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS

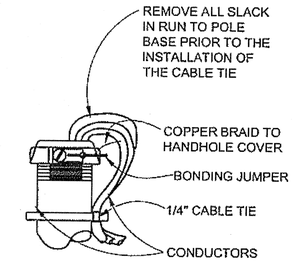
BREAKAWAY COUPLINGS



FOUNDATION WITH BREAKAWAY COUPLINGS

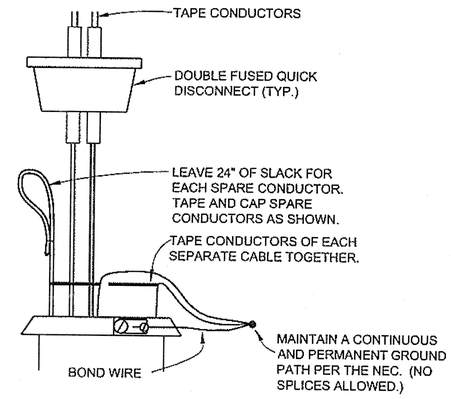


DETAIL A



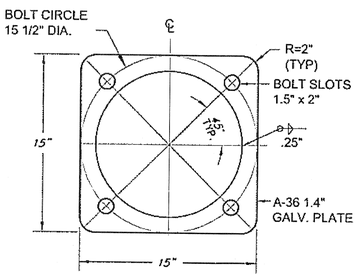
DETAIL B

IN J-BOX



DETAIL C

IN POLE BASE



ANCHOR BASE DETAIL

ILLUMINATION GENERAL NOTES:

1. LUMINAIRES SHALL HAVE A J-BOX INSTALLED ADJACENT TO THE ELECTROLIER FOUNDATION AS SHOWN IN THE ILLUMINATION PLANVIEW.

2. THE ELECTROLIER FOUNDATIONS SHALL BE PRE-CAST. PRE-CAST FOUNDATIONS SHALL BE LIFTED AND TRANSPORTED USING A DEVICE THAT DISTRIBUTES THE LOAD EVENLY BETWEEN THE ANCHOR BOLTS.

3. ILLUMINATION CIRCUIT WIRES SHALL BE NO. 8 AWG. 3-CONDUCTOR CABLE AS SPECIFIED IN STANDARD SPECIFICATION 660.

4. NON-BREAKAWAY PORTIONS OF FOUNDATIONS SHALL NOT PROTRUDE MORE THAN 4" ABOVE ANY 5' CHORD STARTING AND ENDING ON THE FINISHED GRADE OF THE ELECTROLIER PADS.

5. ALL LUMINAIRES SHALL BE 250 WATT MEDIUM CUTTOFF, TYPE III HPS. A MAGNETIC REGULATOR BALLAST AND A POWER DOOR SHALL BE USED . EACH INDIVIDUAL LUMINAIRE SHALL HAVE ITS OWN PHOTO CELL. THE HPS LAMP SHALL BE RATED FOR A MINIMUM OF 24,000 HOURS.

6. CONTACT KPU PRIOR TO INSTALLING THE ILLUMINATION CABLE. COORDINATE WITH KPU SO THEY ARE READY TO COMPLETE THE CONNECTION TO THE LIGHTING CIRCUIT AFTER THE ILLUMINATION CABLE IS INSTALLED TO PREVENT LONG EXPOSURE OF THE SLACK CABLE TO THE ELEMENTS.

7. EXCAVATE TRENCHES FOR INSTALLING RIGID METAL CONDUIT TO A DEPTH OF 6 INCHES BELOW THE BOTTOM OF THE RIGID METAL CONDUIT. EMBED CONDUIT BETWEEN TWO 6-INCH LIFTS OF MATERIAL THAT ARE FREE OF ROCKS EXCEEDING A 1-INCH MAXIMUM DIMENSION. FOR MORE EXCAVATION AND BACKFILLING DETAILS, SEE STD SPEC 660-3.01, SUBSECTION 3.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. MOREHOUSE

STATE OF ALASKA
CAROLYN MOREHOUSE
CE-10691
REGISTERED PROFESSIONAL ENGINEER
3/12/09

DESIGNED BY: D. FAGNANT
DRAWN BY: D. FAGNANT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS PROJECT # 67423

ILLUMINATION DETAILS

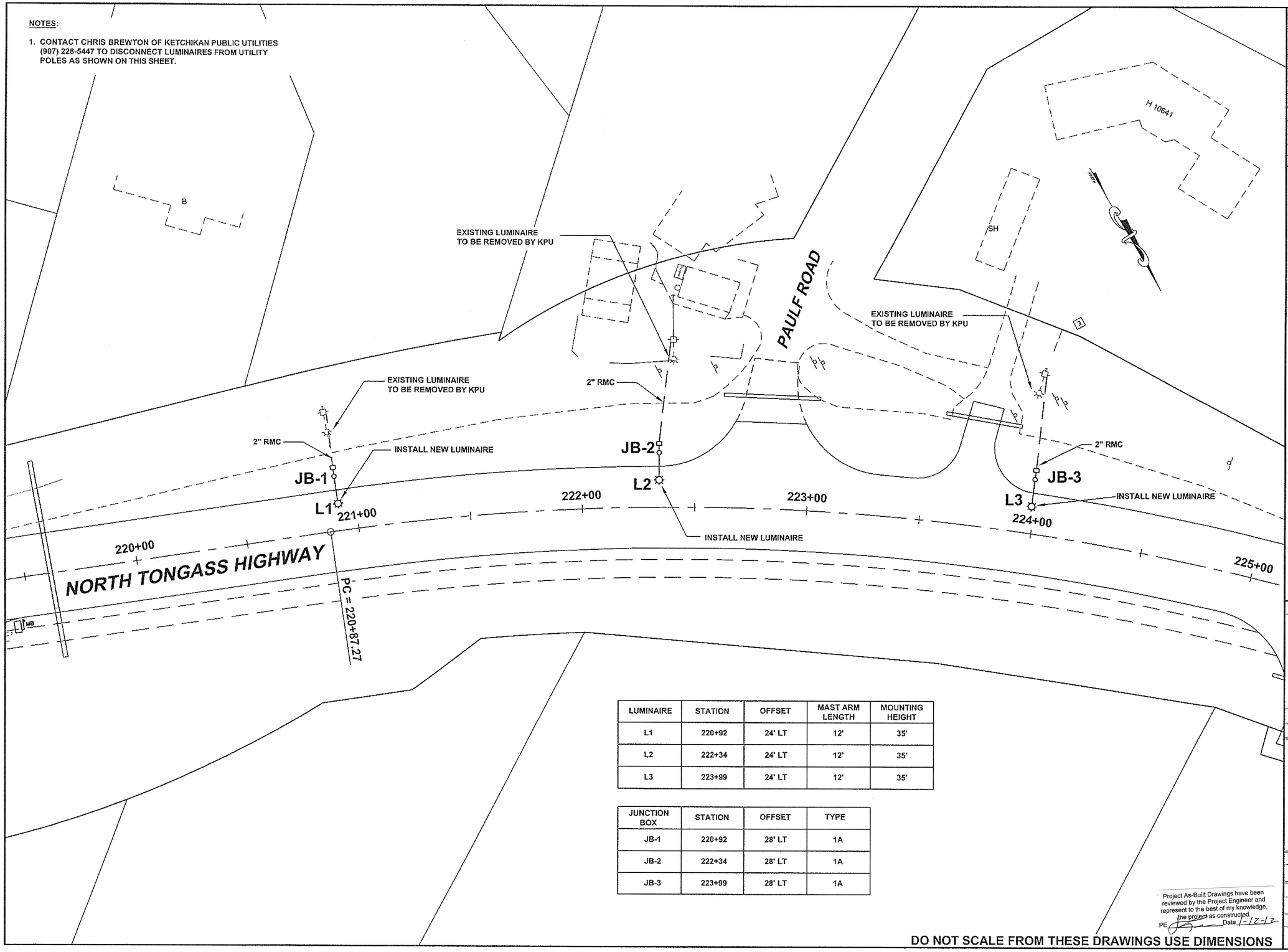
PATH: C:\KTN\67423\PLANSET\67423_R1_ILLUMINATION.DWG
TAB: R1 WILSON, BRIAN G (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	R1	25

NOTES:

1. CONTACT CHRIS BREWTON OF KETCHIKAN PUBLIC UTILITIES (907) 228-5447 TO DISCONNECT LUMINAIRES FROM UTILITY POLES AS SHOWN ON THIS SHEET.



LUMINAIRE	STATION	OFFSET	MAST ARM LENGTH	MOUNTING HEIGHT
L1	220+92	24' LT	12'	35'
L2	222+34	24' LT	12'	35'
L3	223+99	24' LT	12'	35'

JUNCTION BOX	STATION	OFFSET	TYPE
JB-1	220+92	28' LT	1A
JB-2	222+34	28' LT	1A
JB-3	223+99	28' LT	1A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 5-12-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\67423\PLANSET\67423_R1_ILLUMINATION.

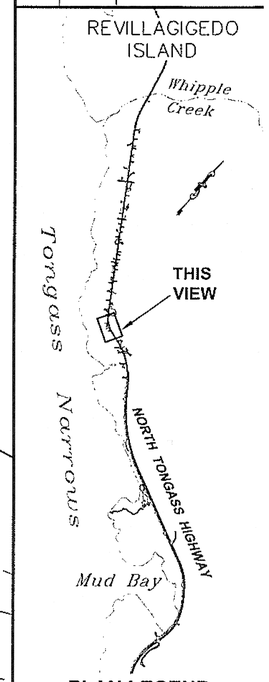
TAB: R2 WILSON, BRIAN

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: C. MOREHOUSE

STATE OF ALASKA
49th
CAROLYN MOREHOUSE
CE-10691
REGISTERED PROFESSIONAL ENGINEER
3/12/09

DESIGNED BY: D. FAGNANT

DRAWN BY: D. FAGNANT

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

KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS PROJECT #67423

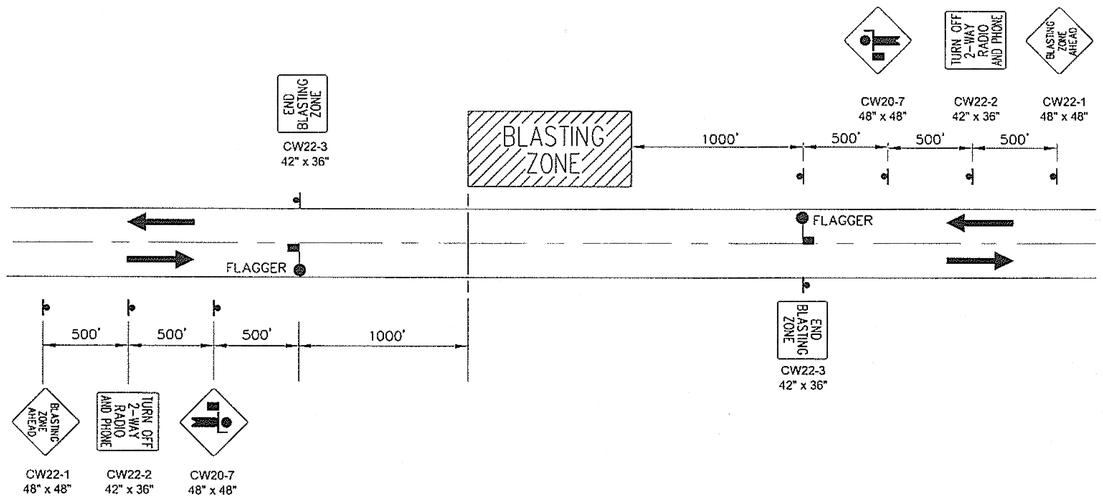
ILLUMINATION LAYOUT

PROJECT DESIGNATION
HHE-0920(24) / 67423

STATE	YEAR
ALASKA	2009
SHEET NUMBER	TOTAL SHEETS
R2	25

TRAFFIC CONTROL NOTES

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED AND SUBMITTED FOR APPROVAL BY THE ENGINEER PRIOR TO USE.
2. TWO LANES SHALL BE MAINTAINED ALONG NORTH TONGASS HIGHWAY AT ALL TIMES THE CONTRACTOR IS NOT ACTIVELY WORKING. FLAGGERS MUST BE PRESENT FOR ANY LANE CLOSURES.
3. TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
4. ACCESS TO BUSINESSES AND HOMES WILL BE MAINTAINED AT ALL TIMES.
5. KEEP THE PUBLIC INFORMED OF CONSTRUCTION ACTIVITIES. SEE SECTION 643-3.03 OF THE SPECIAL PROVISIONS.
6. CONSTRUCTION ACTIVITIES WILL NOT BE ALLOWED BETWEEN THE HOURS OF 11:00P.M. AND 6:00A.M. WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
7. ALL TRAFFIC CONTROL PLANS SUBMITTED BY THE CONTRACTOR SHALL BE NUMBERED. ALL TRAFFIC CONTROL PLANS THAT USE A TYPICAL APPLICATION AS DESCRIBED IN THE MUTCD SHALL REFERENCE THE TYPICAL APPLICATION. EXAMPLE: TCP 3, MUTCD TA-10.
8. ORANGE CONSTRUCTION SIGNS SHALL USE TYPE VIII OR IX FLOURESCENT SHEETING AS DETAILED IN SECTION 615-2.01.
9. DELAYS SHALL NOT EXCEED 5 MINUTES UNLESS APPROVED BY THE ENGINEER.
10. WHEN ROAD CLOSURES ARE REQUIRED FOR BLASTING EVENTS AND RELATED WORK, THEY SHALL NOT BE LONGER THAN 2 HOURS IN DURATION.
11. SEE SECTION 201-3.01 OF THE SPECIAL PROVISIONS FOR LIMITATIONS ON PAVEMENT REMOVAL AND REPAVING. REPAVED SECTIONS REQUIRE INTERIM PAVEMENT MARKINGS PER SECTION 643-3.09 OF THE SPECIAL PROVISIONS.
12. ALL PAVED SECTIONS OF ROADWAY SHALL BE SWEPT CLEAN BEFORE OPENING TO TRAFFIC.



TYPICAL BLASTING ZONE PLAN

SIGN FOR 48 HOUR ADVANCED NOTICE OF BLASTING

SIGNS SHALL BE ORANGE BACKGROUND WITH BLACK BORDER AND TEXT. SIGNS SHALL INCLUDE THE DATE OF CLOSURE, BEGINNING TIME OF CLOSURE, AND EXPECTED TIME THE ROAD WILL REOPEN. SIGNS SHALL BE IN PLACE A MINIMUM OF 48 HOURS PRIOR TO ROAD CLOSURE.

LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE

FORMULAS FOR L (TAPER LENGTH)

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

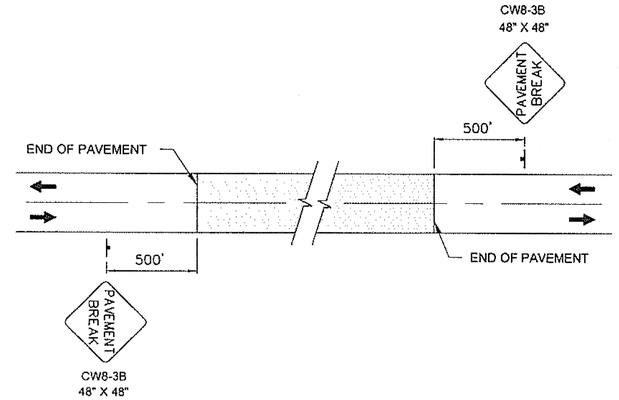
45 MPH OR GREATER $L = WxS$

WHERE W= WIDTH OF OFFSET

S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

MAXIMUM DRUM
OR CONE SPACING = S (IN FEET) FOR TAPERS
= 2S (IN FEET) FOR TANGENTS

MIN. BUFFER	
S	LENGTH
20	115
25	115
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



SIGNING FOR UNPAVED AREA

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD

STATE OF ALASKA
49th
CAROLIN M. HOWARD
CE-10691
REGISTERED PROFESSIONAL ENGINEER
3/12/09

DESIGNED BY: J. WEAVER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

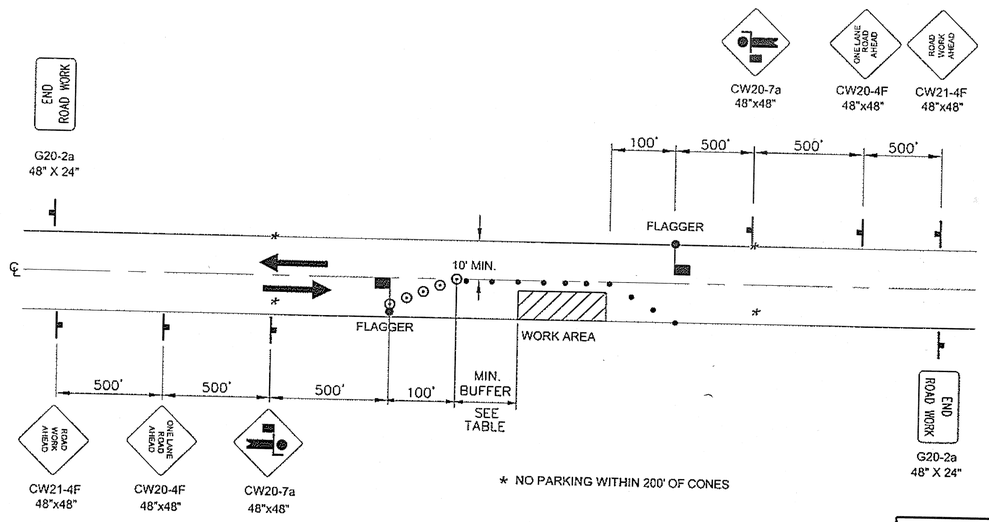
TRAFFIC CONTROL PLAN

PATH: O:\KTN\67423\PLANSET\67423_S1-2_TCP.DWG
TAB: S1
WILSON, BRIAN G (DOT)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

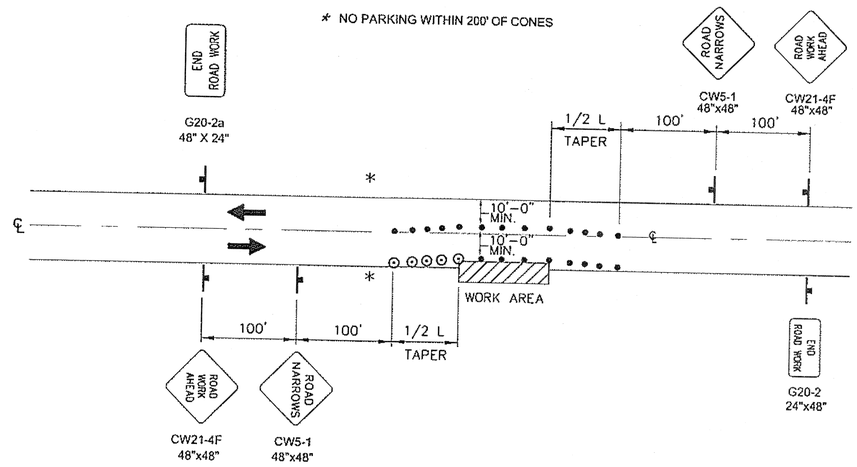
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	S1	25



TWO LANE ROAD - SINGLE LANE CLOSURE

DOUBLE FLAGGER



ROADWAY ENCROACHMENT

NOTE:
IF ONLY ONE LANE IS AFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE CENTERLINE CONES FOR THE OPPOSING LANE SHALL BE DELETED.

LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION
- HI-LEVEL WARNING DEVICE

FORMULAS FOR L (TAPER LENGTH)

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

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

WHERE W= WIDTH OF OFFSET

S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

MAXIMUM DRUM OR CONE SPACING = S (IN FEET) FOR TAPERS
= 2S (IN FEET) FOR TANGENTS

MIN. BUFFER	
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30	200
35	250
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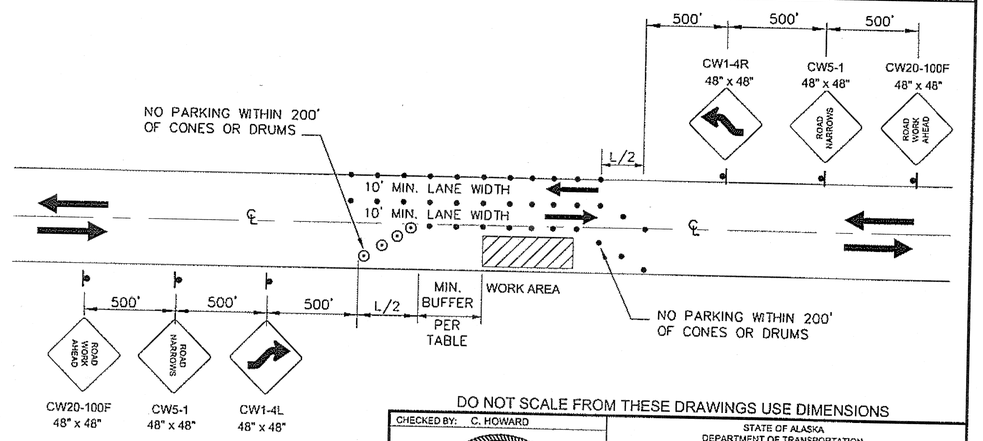

TWO-WAY TRAFFIC

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD
DESIGNED BY: J. WEAVER
DRAWN BY: R. SNYDER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

TRAFFIC CONTROL PLAN

PATH: Q:\KTN\67423\PLANSET\67423_S1-2_TCP.DWG
TAB: S2
WILSON, BRIAN G (DOT)

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	S2	25

Whipple Creek

FWS NEST #12
330' PRIMARY ZONE

FWS NEST #12
½ MILE SECONDARY ZONE

NORTH TONGASS HIGHWAY

REVILLAGIGEDO ISLAND

PROJECT PLAN VIEWS ON SHEET T2

ANCHORWOOD COURT

HODGMAN LANE

GENA ROAD

D-1 LOOP ROAD

COLLINS COURT

FWS NEST #11
½ MILE SECONDARY ZONE

FWS NEST #11
330' PRIMARY ZONE

Tongass Narrows

Totem Bight

FWS NEST #10
½ MILE SECONDARY ZONE

TO KETCHIKAN

Mud Bay

0 500 1000
SCALE IN FEET

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 1-12-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD
DESIGNED BY: J. WEAVER
DRAWN BY: R. SNYDER

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT # 67423

EROSION & SEDIMENT CONTROL AREA LAYOUT PLAN

PATH: Q:\KTN\67423\PLANSET\67423_T1-3_ESCP.DWG
TAB: T1
WILSON, BRIAN G (DOT)

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	T1	25

PATH:
Q:\KTN\67423\PLANSET\67423_T1-3_ESCP.DWG

TAB: T2 WILSON, BRIAN C

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Unclassified Excavation from this area was stockpiled to use as topsoil. Knotweed starts were found in the stockpile after about 60 days.

ROW

PT = 217+76.53

218+00

N66°28'39"W
308.94'

219+00

220+00

221+00

222+00

223+00

224+00

NT17

NT18

NT19

NT19A

PC = 220+87.27

150'

SF

INVASIVE PLANT SUMMARY		
SITE	TYPE	AREA(SQ FT)
NT17	REED CANARY GRASS	400
NT18	OXEYE DAISY	250
NT19	JAPANESE KNOT WEED	2050
NT19A	JAPANESE KNOT WEED	2500
NT20	REED CANARY GRASS	16

LEGEND

- EXISTING DITCH DRAINAGE PATTERN
- PROPOSED DITCH DRAINAGE PATTERN
- ROCK CHECK DAM
- SF — SILT FENCE
- PROFILE DRAINAGE PATTERN
- SURFACE DRAINAGE PATTERN
- EXISTING CULVERT FLOW DIRECTION
- PROPOSED CULVERT FLOW DIRECTION
- IDENTIFIED INVASIVE PLANT SITE
- CLASS I RIPRAP AT CULVERT OUTLET

H 10543

H 10501

H 10681

188'

119'

163'

129'

225+00

226+00

227+00

228+00

229+00

230+00

231+00

232+00

N31°08'01"W
485.90'

NT20

PT = 227+81.41

GAS STATION

B 10730

H 10690

LIGHTHOUSE

H 10781

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PE_____Date_____

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KTN - NORTH TONGASS HIGHWAY
SAFETY IMPROVEMENTS
PROJECT # 67423

EROSION & SEDIMENT CONTROL PLAN

PLAN LEGEND

CHECKED BY: C. HOWARD

STATE OF ALASKA
CHAD HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

DESIGNED BY: J. WEAVER

DRAWN BY: R. SNYDER

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

KTN - NORTH TONGASS HWY.
SAFETY IMPROVEMENTS
PROJECT #67423

EROSION & SEDIMENT CONTROL PLAN

PROJECT DESIGNATION

HHE-0920(24) / 67423

STATE	YEAR
ALASKA	2009
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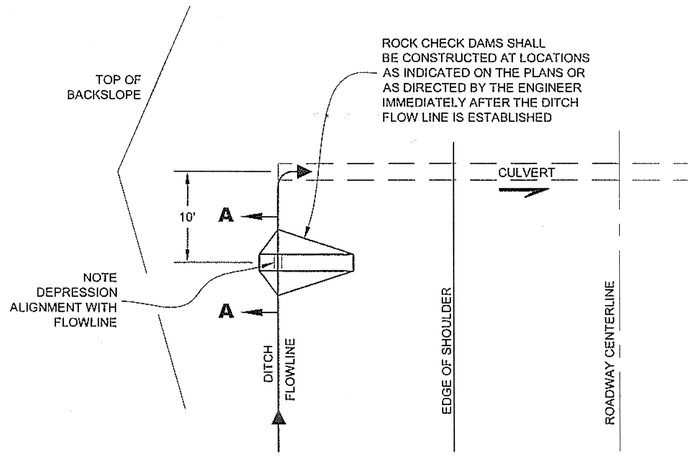
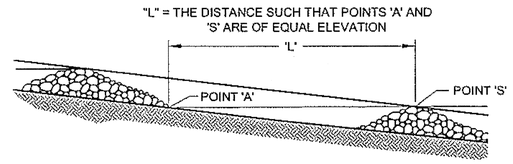


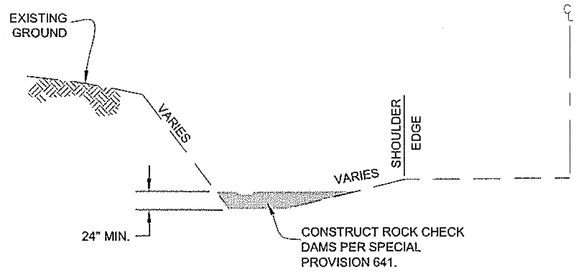
PLAN



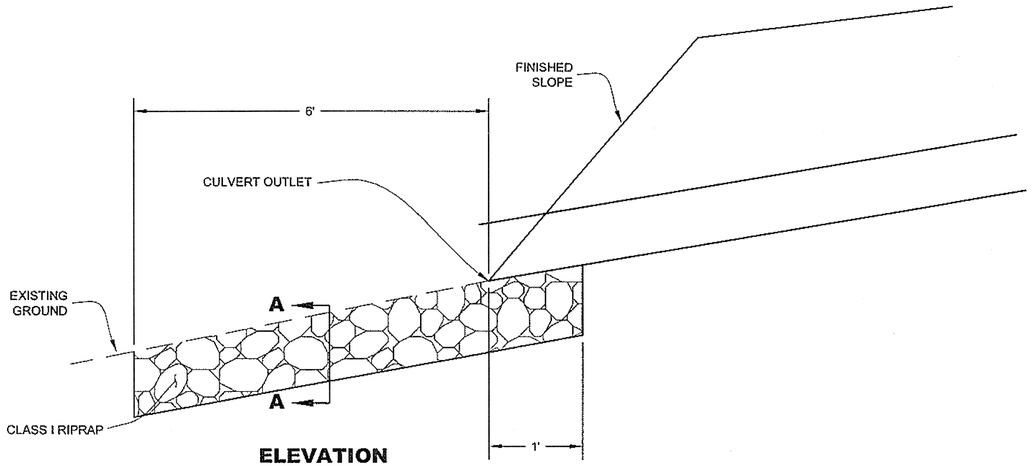
SPACING BETWEEN CHECK DAMS

EROSION AND SEDIMENT CONTROL NOTES:

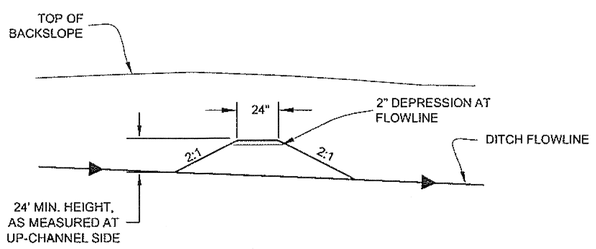
1. REFER TO APPENDIX B OF THE CONTRACT DOCUMENTS FOR THE ENVIRONMENTAL COMMITMENTS, PERMITS, AND EROSION AND SEDIMENT CONTROL PLAN.
2. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE EARTH DISTURBING ACTIVITIES.
3. EROSION AND SEDIMENT CONTROL DEVICES REQUIRE INSPECTION AND MAINTENANCE TO INSURE THEY ARE FUNCTIONING. SEE SECTION 641 OF THE SPECIAL PROVISIONS.
4. IF INSPECTION REVEALS SEDIMENT IS DISCHARGING BEYOND THE PROJECT WORK LIMITS, IMMEDIATELY IMPLEMENT CORRECTIVE ACTION. ADDITIONAL EROSION OR SEDIMENT CONTROL DEVICES MAY BE REQUIRED.
5. STABILIZE DISTURBED GROUND AS SOON AS POSSIBLE. UNSTABILIZED SURFACES MUST BE TEMPORARILY STABILIZED WITH SEEDING OR OTHER EFFECTIVE MEASURES WITHIN 14 DAYS OF CESSASTION OF LAND DISTURBING ACTIVITIES IN THE VICINITY. SEE SECTION 641-3.01 OF THE SPECIAL PROVISIONS. MAINTAIN EROSION AND SEDIMENT CONTROL UNTIL PROJECT WORK AREAS ARE SEEDED AND HAVE ACHIEVED 70% VEGETATIVE COVER.



ELEVATION

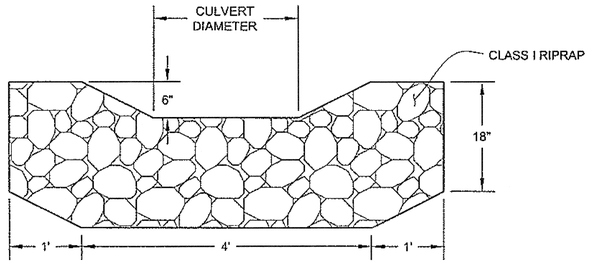


ELEVATION



SECTION A-A

TEMPORARY CHECK DAM DETAILS



SECTION A-A

CULVERT OUTLET DETAILS

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PE _____ Date 1-12-12

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: C. HOWARD
DESIGNED BY: J. WEAVER
DRAWN BY: R. SNYDER

STATE OF ALASKA
CHAD J. HOWARD
CE-10835
REGISTERED PROFESSIONAL ENGINEER
3-11-09

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN - NORTH TONGASS HWY. SAFETY IMPROVEMENTS PROJECT # 67423

EROSION & SEDIMENT DETAILS

PATH: Q:\KTN\67423\PLANSET\67423_T1-3_ESCP.DWG
TAB: T3
WILSON, BRIAN G (DOT)

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
HHE-0920(24) 67423	2009	T3	25