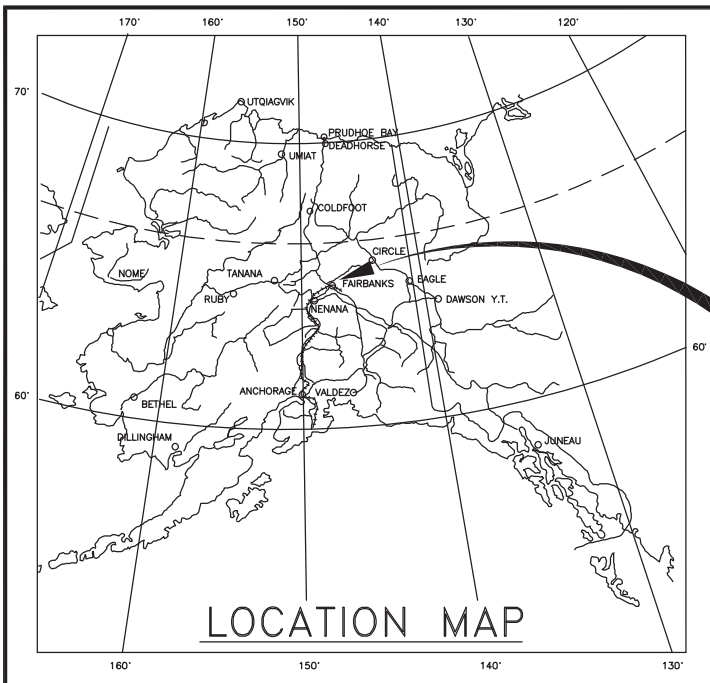


NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWHY00633	2023	A1	29
			CDS ROUTE:	N/A	MILEPOINT:	N/A TO	N/A



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
PENDING/NFHWHY00633
FAST AREA SURFACE UPGRADES FFY2023
GRADING, DRAINAGE, PAVING, & SIGNALIZATION

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	LEGEND
A3	SURVEY CONTROL
A4-A5	AREA MAPS
B1-B3	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES & GENERAL NOTES
C2-C3	SUMMARIES
E1-E4	MISCELLANEOUS DETAILS
F1	GRADING SHEET
H1-H6	RECTANGULAR RAPID FLASHING BEACON
Q1	EROSION SEDIMENT CONTROL PLANS
T1	TRAFFIC CONTROL PLANS
V1-V5	STANDARD PLANS

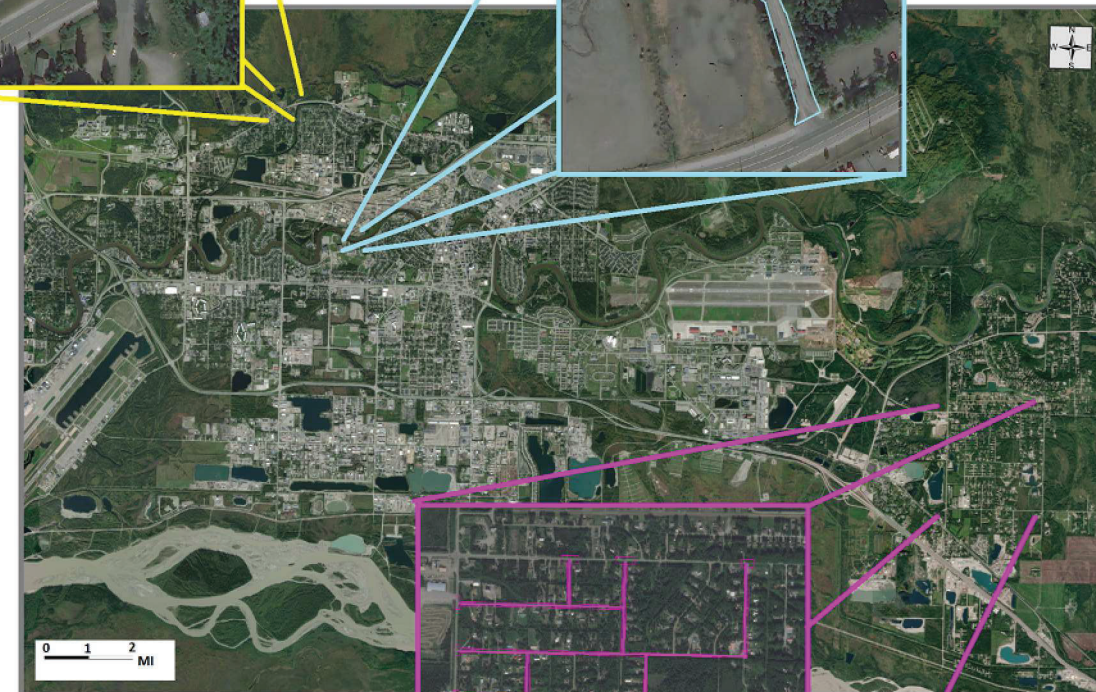
THE FOLLOWING STANDARD PLANS APPLY TO THIS PROJECT:

I-20.20
S-01.02, S-05.02, S-20.11, S-30.05

COLLEGE ROAD FLASHING BEACON



2ND AVENUE DOG PARK



AZTEC ROAD SERVICE AREA

AZTEC AREA PROJECT SUMMARY

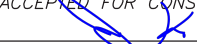
WIDTH OF PAVEMENT	22'
LENGTH OF GRADING	3.6 MILES
LENGTH OF PAVING	3.6 MILES
LENGTH OF PROJECT	3.6 MILES

JOHN NETARDUS, P.E., ENGINEERING MANAGER
PATRICK WOOLERY, DESIGNER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

APPROVED BY:  DATE 3/8/2023

Lauren M. Little, P.E.
Acting Reconstruction Engineer, Northern Region
ACCEPTED FOR CONSTRUCTION:

 DATE 3/8/2023
Joseph P. Kemp, P.E.
Acting Regional Director, Northern Region

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
 H:\Projects\Fbks_NF\NFHWY00633_FAST_Area_Surface_Upgrade\FY2023\6_Design\4_C3D\2_Drawings\A_Title_Layout\Legend_SHEETS_NEWPICTURE-HWYS_Layout & Abbreviations_Tue, Mar/07/23 09:17am

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	A2	A5

	RECOVERED	SET
BLM MONUMENT		
GLO MONUMENT		
USC&GS MONUMENT		
PRIMARY MONUMENT		
CENTERLINE MONUMENT IN CASING		
PRIMARY R.O.W. MONUMENT		
BEARING OBJECT		
MISCELLANEOUS MONUMENT		
LINE OF SIGHT MONUMENT		
CONCRETE R.O.W. MONUMENT		
BENCHMARK		
REBAR AND CAP		
REBAR		
IRON PIPE		
PK NAIL		
SPIKE		
HUB AND TACK		
CONSTRUCTION CENTERLINE		
MISCELLANEOUS CENTERLINE		
STATION EQUATION		
PROJECT RIGHT-OF-WAY LINE		
EXISTING RIGHT-OF-WAY LINE		
EXISTING PROPERTY LINE		
CONTROLLED ACCESS LINE		
UTILITY EASEMENT LINE		
TEMPORARY EASEMENT LINE (TCP OR TCE)		
ACCESS OR SECTION LINE EASEMENT		
PROPOSED CUT SLOPE LIMIT		
PROPOSED FILL SLOPE LIMIT		
SECTION LINE		
1/4 SECTION LINE		
1/16 SECTION LINE		
TOWNSHIP & RANGE LINE		

	EXISTING	PROPOSED
SANITARY SEWER (FLOW DIRECTION →)		
FUEL LINE		
GAS LINE		
WATER LINE		
METER, VALVE, FIRE HYDRANT		
EXISTING STORM DRAIN (FLOW DIRECTION →)		
PROPOSED STORM DRAIN		
FIBER OPTIC LINE		
DIRECT BURIAL TELEPHONE CABLE		
DIRECT BURIAL ELECTRIC CABLE		
ELECTRIC LINE (OVERHEAD)		
POWER POLE LINE		
JOINT USE POWER & TELEPHONE		
TELEPHONE POLE LINE		
POLE ANCHOR		
STUB POLE (POWER OR TELEPHONE)		
TELEPHONE DUCT		
TELEPHONE PEDESTAL		
BURIED CABLE MARKER		
PIPELINE MARKER OR VALVE		
CATCH BASIN OR DROP INLET		
MANHOLE		
SANITARY SEWER CLEAN OUT		

	EXISTING	PROPOSED
ROADWAY/PAVEMENT EDGE		
FENCE		
CURB AND GUTTER		
DETECTABLE WARNINGS		
GUARDRAIL		
CULVERT PIPE		
SIGN		
MAILBOX		
RAILROAD TRACKS		
RAILROAD DEVICES		
TREE LINE		
WATER BOUNDARY		
ORDINARY HIGH WATER LINE		
FLOW CENTERLINE		
FLOW DIRECTION		
WETLANDS		
EXISTING BUILDINGS		
POST OR BOLLARD		
WELL OR MONITORING WELL		
SEPTIC PIPE		
FUEL TANK FILL PIPE/VENT		
SATELLITE DISH		
TEST HOLE		
CONIFER TREE		
DECIDUOUS TREE		
GRAVE		
THERMOSIPHON		
PARKING METER		
VEHICLE PLUG-IN		
DELINEATOR/GUIDE MARKER		

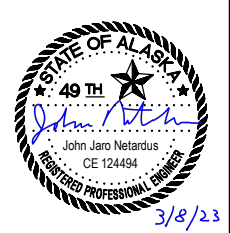
	EXISTING	PROPOSED
JUNCTION BOX, TYPE IA		
JUNCTION BOX, TYPE II		
JUNCTION BOX, TYPE III		
SIGNAL FACE, VEHICULAR		
SIGNAL FACE, BACKPLATE		
SIGNAL FACE, LEFT TURN, BACKPLATE		
SIGNAL FACE, PEDESTRIAN		
LOOP DETECTOR		
VIDEO DETECTOR		
RADAR DETECTOR		
OPTICOM DETECTOR		
PEDESTRIAN PUSH BUTTON		
SIGNAL POST W/O MAST ARM		
SIGNAL POLE W/MAST ARM		
SIGNAL CONTROLLER		
LOAD CENTER		
LUMINAIRE		
RIGID METAL CONDUIT		

H = HOUSE
 G = GARAGE
 M = MERCHANT/STORE
 B = BARN
 S = SHED
 P = PRIVY
 SS = SERVICE STATION
 W = WAREHOUSE

ABBREVIATIONS:

APPROX	APPROXIMATELY	SQ. FT.	SQUARE FOOT
C	CENTERLINE	STA	STATION
CY	CUBIC YARD	T	TANGENT
E	EAST, EASTING	TCE	TEMPORARY CONSTRUCTION EASEMENT
ELE, ELEV	ELEVATION	TS	TUBE STEEL
FT.	FOOT, FEET	TYP	TYPICAL
H	HORIZONTAL	V	VERTICAL
HW/D	HEADWATER TO DIAMETER RATIO	VPC	VERTICAL POINT OF CURVATURE
IE	INVERT ELEVATION	VPI	VERTICAL POINT OF INTERSECTION
IN, "	INCH, INCHES	VPT	VERTICAL POINT OF TANGENCY
L	LENGTH OF CURVE	W	WEST
L.C.L	LEFT OF CENTERLINE	WWR	WELDED WIRE REINFORCEMENT
LT	LEFT	Ø	DIAMETER
LVC	LENGTH OF VERTICAL CURVE		
MAX	MAXIMUM		
MIN	MINIMUM		
N	NORTH, NORTHING		
NO.	NUMBER		
NTS	NOT TO SCALE		
O.C.	ON CENTER		
PC	POINT OF CURVATURE		
POT	POINT ON TANGENT		
PST	PERFORATED STEEL TUBE		
PT	POINT OF TANGENCY		
PVI	POINT OF VERTICAL INTERSECTION		
R	RADIUS		
R.C.L	RIGHT OF CENTERLINE		
RT	RIGHT		
S	SOUTH		

LEGEND



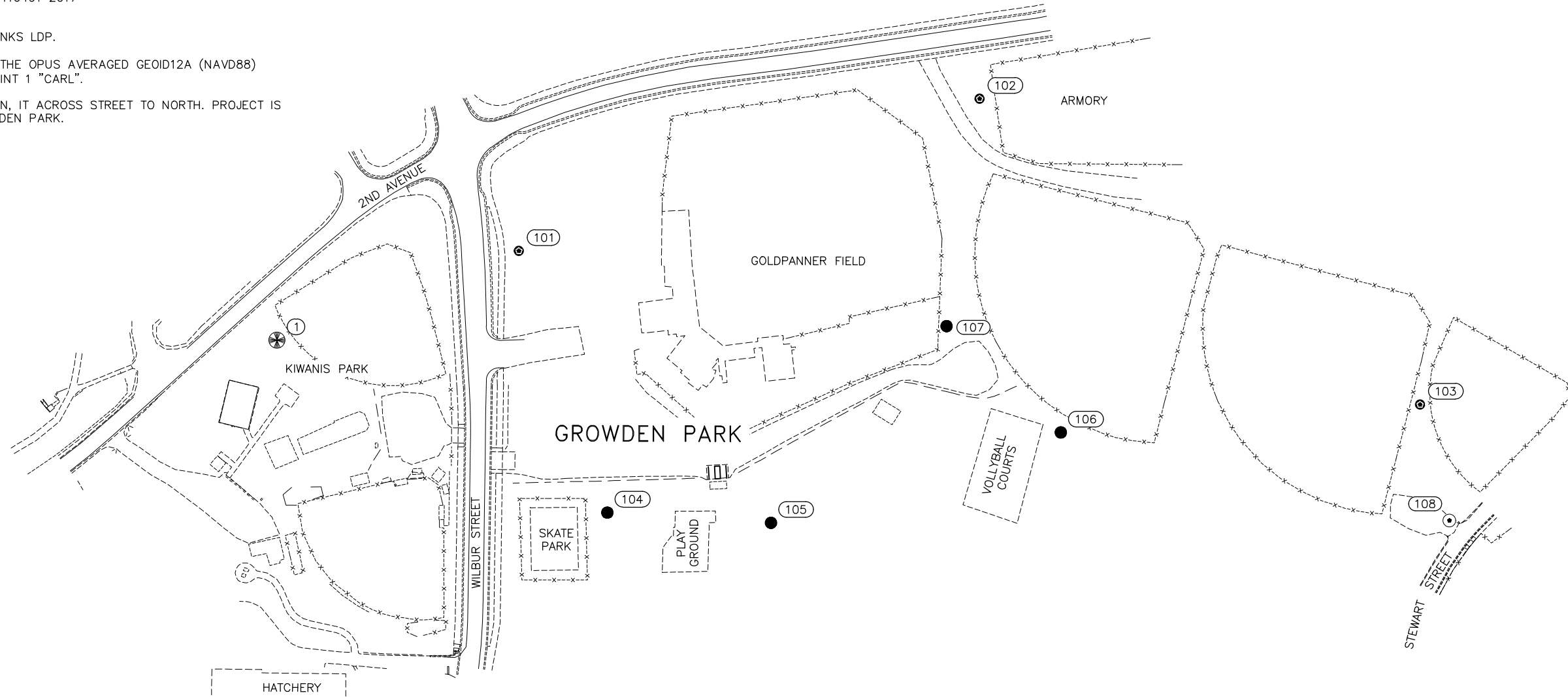
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	NFWHY00633	2023	A3	A5

GENERAL NOTES

1. VERIFY HORIZONTAL AND VERTICAL CONTROL PRIOR TO USE. ON MULTI YEAR PROJECTS, VERIFY ALL CONTROL ON A SEASONAL BASIS.
2. BACKGROUND MAPPING IS SHOWN FOR ORIENTATION PURPOSES ONLY. THIS SHEET DOES NOT PURPORT TO DEPICT RIGHT OF WAY.
3. ALL DISTANCES SHOWN ARE GROUND DISTANCES, IN U.S. SURVEY FEET.
4. THIS PROJECT IS LOCATED ENTIRELY WITHIN THE FAIRBANKS LOW DISTORTION PROJECTION (LDP), A LOW DISTORTION PROJECTION CREATED BY THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES.

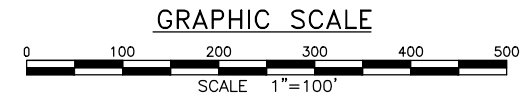
FAIRBANKS LDP DEFINITION:
LINEAR UNIT: U.S. SURVEY FOOT (SFT)
DATUM: NAD83(2011)
PROJECTION: LAMBERT CONFORMAL CONIC, (SINGLE PARALLEL)
STANDARD PARALLEL AND GRID ORIGIN: 64°51'00"N
CENTRAL MERIDIAN (GRID ORIGIN): 146°56'00"W
FALSE NORTHING: 200,000 SFT
FALSE EASTING: 800,000 SFT
STANDARD PARALLEL SCALE: 1.00003 (EXACT)
5. THE BASIS OF COORDINATES IS THE NAD83(2011)(EPOCH:2010.0000) OPUS AVERAGED POSITION OF RECOVERED CONTROL POINT 1 "CARL", A PRIMARY MONUMENT STAMPED "CARL LS-116491 2017"
6. BASIS OF BEARING IS FAIRBANKS LDP.
7. THE BASIS OF ELEVATION IS THE OPUS AVERAGED GEOID12A (NAVD88) ELEVATION OF 436.98 FT AT POINT 1 "CARL".
8. THE DOG PARK IS NOT SHOWN, IT ACROSS STREET TO NORTH. PROJECT IS USING SAME CONTROL AS GROWDEN PARK.

CONTROL MONUMENTS						
POINT NO.	NORTHING	EASTING	ELEVATION	LATITUDE	LONGITUDE	DESCRIPTION
1	197372.35	670696.66	436.98	N64° 50' 25.7912"	W147° 45' 49.7197"	PRIM MON FND CARL LS11649 2017
101	197514.65	671082.24	438.29	N64° 50' 27.2412"	W147° 45' 40.8486"	REBAR CAP SET GROWDEN1 LS14471 2020
102	197757.19	671816.82	438.89	N64° 50' 29.7223"	W147° 45' 23.9385"	REBAR CAP SET GROWDEN2 LS14471 2020
103	197269.60	672518.98	440.02	N64° 50' 25.0136"	W147° 45' 07.5585"	REBAR CAP SET GROWDEN3 LS14471 2020
104	197097.42	671223.34	437.36	N64° 50' 23.1535"	W147° 45' 37.4603"	REBAR SET
105	197081.12	671484.22	437.72	N64° 50' 23.0266"	W147° 45' 31.4244"	REBAR SET
106	197225.22	671946.29	439.79	N64° 50' 24.5039"	W147° 45' 20.7852"	REBAR SET
107	197394.72	671764.17	438.84	N64° 50' 26.1486"	W147° 45' 25.0465"	REBAR SET
108	197084.79	672565.85	440.51	N64° 50' 23.2009"	W147° 45' 06.4196"	REBAR CAP FND 4794S

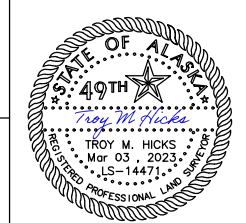


LEGEND

- PRIMARY MONUMENT FOUND
- REBAR AND CAP SET
- REBAR AND CAP FOUND
- REBAR SET

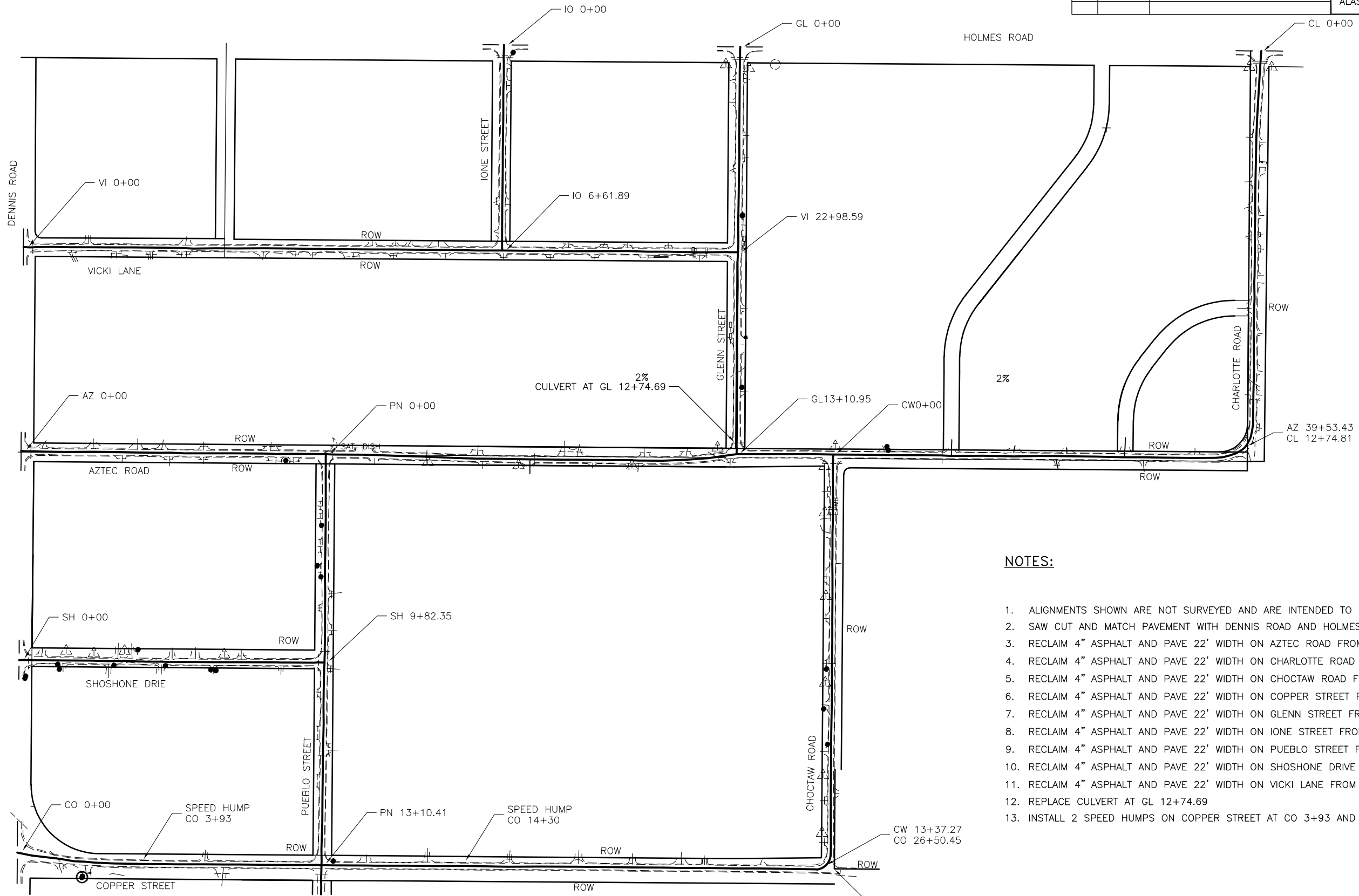


SURVEY CONTROL



PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
I:\Communities\Fairbanks\Survey\2021 Dog Park NFWHY00633\Control-Sht 1 Frt. Mar/03/23 02:39pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHwy00633	2023	A4	A5

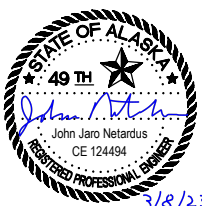


NOTES:

1. ALIGNMENTS SHOWN ARE NOT SURVEYED AND ARE INTENDED TO SHOW APPROXIMATE LENGTHS AND LOCATIONS..
2. SAW CUT AND MATCH PAVEMENT WITH DENNIS ROAD AND HOLMES ROAD.
3. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON AZTEC ROAD FROM AZ 0+00 TO AZ 39+53.43
4. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON CHARLOTTE ROAD FROM CL 0+00 TO CL 12+74.81
5. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON CHOCTAW ROAD FROM CW 0+00 TO CW 13+37.27
6. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON COPPER STREET FROM CO 0+00 TO CO 26+50.45
7. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON GLENN STREET FROM GL 0+00 TO GL 13+10.95
8. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON IONE STREET FROM IO 0+00 TO IO 6+61.89
9. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON PUEBLO STREET FROM PN 0+00 TO PN 13+10.41
10. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON SHOSHONE DRIVE FROM SH 0+00 TO SH 9+82.35
11. RECLAIM 4" ASPHALT AND PAVE 22' WIDTH ON VICKI LANE FROM VI 0+00 TO VI 22+98.59
12. REPLACE CULVERT AT GL 12+74.69
13. INSTALL 2 SPEED HUMPS ON COPPER STREET AT CO 3+93 AND CO 14+30, OR AS DIRECTED BY THE ENGINEER.

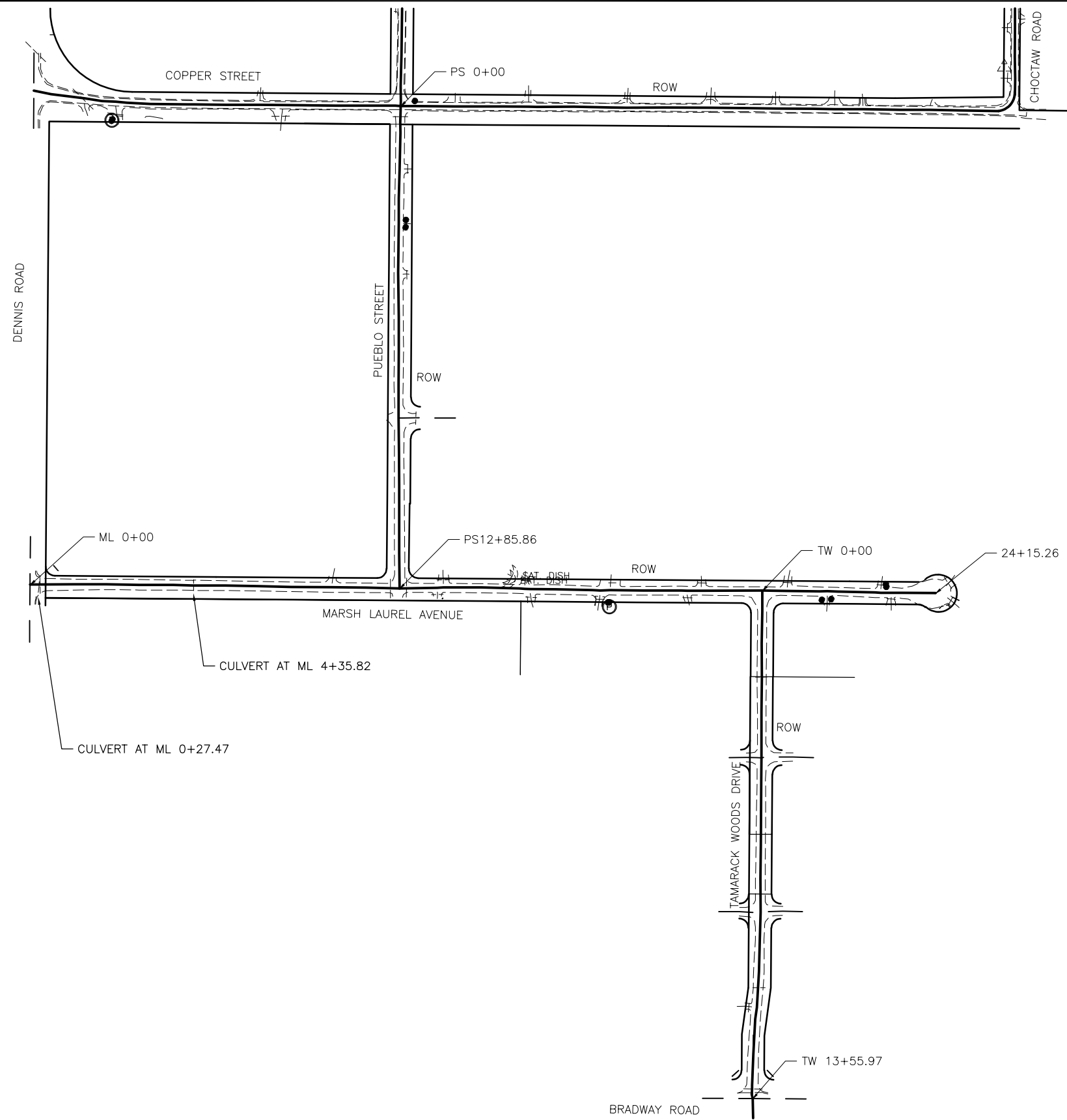
ATTN: ROW IS VERY CLOSE TO PAVEMENT

**AZTEC AREA MAP
1 OF 2**



PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
 H:\Projects\Fbks_NF\NFHWY00633_FAST_Area_Surface_Upgrade\FY2023\6 Design\4 C3D\2 Drawings\AZTEC_SURVEY\AZTEC_SURVEY_ROW-AZTEC_PAVE_Tue_Mar_07_23 10:56am

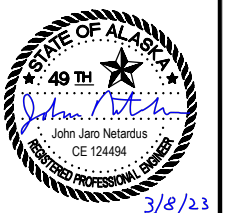
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	A5	A5



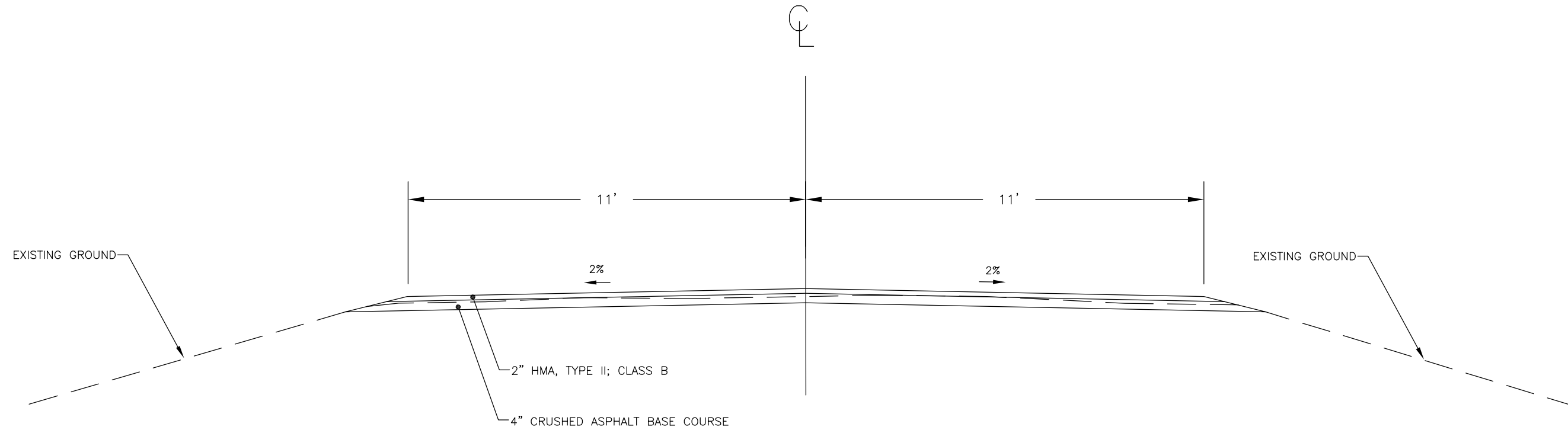
NOTES:

1. SAW CUT AND MATCH PAVEMENT WITH DENNIS ROAD AND BRADWAY ROAD.
2. SEE SHEET A3 NOTES FOR WORK ON COPPER STREET.
3. PAVE PUEBLO STREET FROM PS 0+00 TO PS 12+85.86 ACCORDING TO TYPICAL SECTION 2, PAGE B2
4. PAVE MARSH LAUREL AVENUE FROM ML 0+00 TO ML 24+15.26 ACCORDING TO TYPICAL SECTION 2
5. PAVE TAMARACK WOODS DRIVE FROM TW 0+00 TO TW 13+55.97 ACCORDING TO TYPICAL SECTION 2
6. REPLACE CULVERT AT ML 0+27.47
7. REPLACE CULVERT AT ML 4+35.82

AZTEC AREA MAP
 2 OF 2



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	B1	B3



TYPICAL SECTION 1

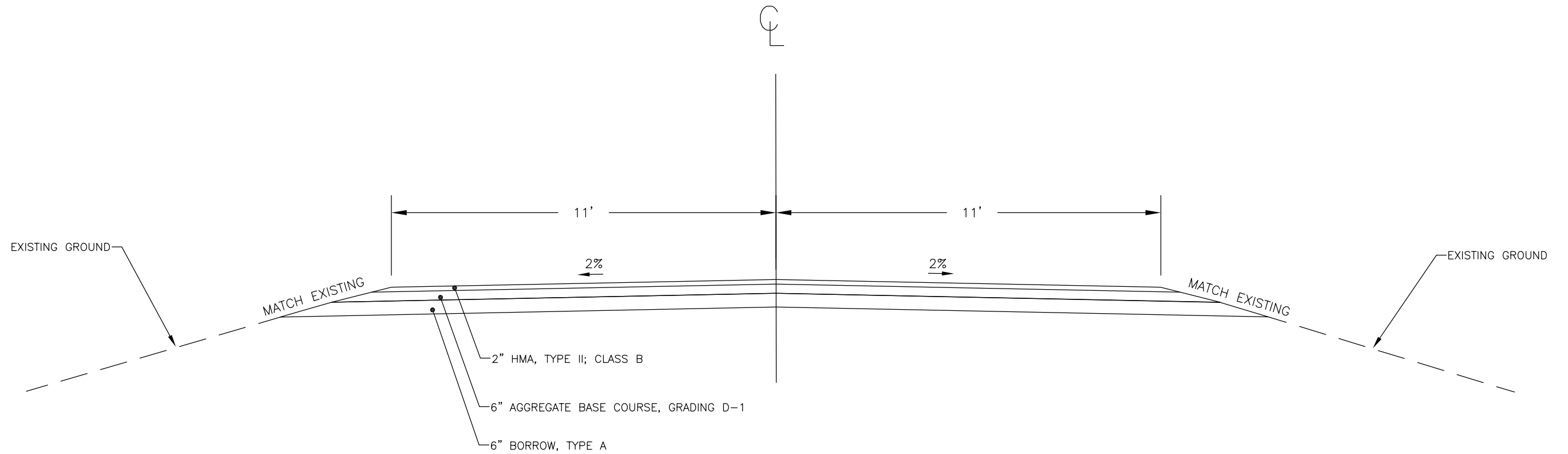
AZTEC, CHARLOTTE, COPPER, CHOCTAW, GLENN, IONE, PUEBLO NORTH OF COPPER, SHOSHONE, VICKI

TYPICAL SECTION
1 OF 3



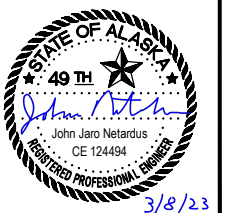
3/8/23

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFWY00633	2023	B2	B3

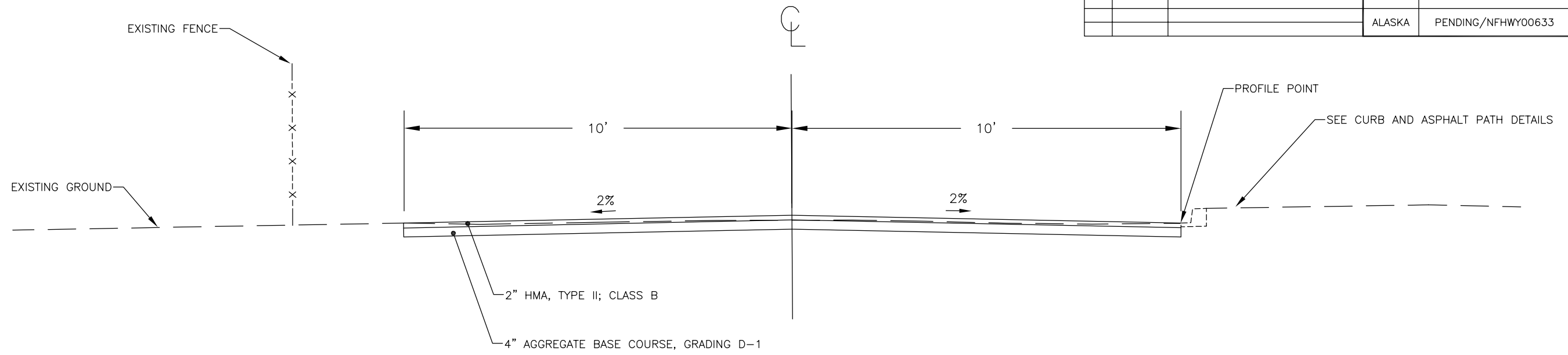


TYPICAL SECTION 2
 PUEBLO SOUTH OF COPPER, TAMARACK WOODS, AND MARSH LAUREL

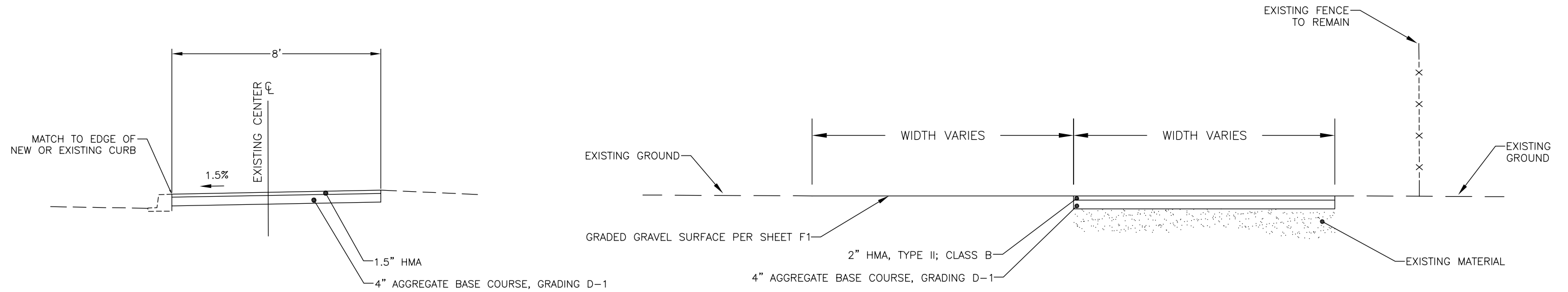
TYPICAL SECTION
 2 OF 3



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	B3	B3



TYPICAL SECTION 3
2ND AVENUE DOG PARK ACCESS ROAD



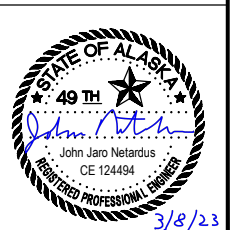
ASPHALT PATH TYPICAL SECTION 4
2ND AVENUE DOG PARK BIKE PATH

PARKING PAVING TYPICAL SECTION 5
2ND AVE DOG PARK ASPHALT PARKING SURFACE

NOTES:

1. ASPHALT PARKING AREA TO BE EXCAVATED TO DEPTH TO PLACE AGGREGATE BASE AND HMA. EXCAVATED MATERIAL IS TO BE USED FOR GRADING THE GRAVEL PORTION OF THE PARKING LOT.

TYPICAL SECTION
3 OF 3



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	C1	C3

ESTIMATE OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
202.0002.0000	REMOVAL OF PAVEMENT	SY	220
202.0009.0000	REMOVAL OF CURB AND GUTTER	LF	30
203.0003.0000	UNCLASSIFIED EXCAVATION	CY	237
203.0006.000A	BORROW	TON	4,579
301.0001.0001	AGGREGATE BASE COURSE, GRADING D-1	TON	3,363
308.0001.0000	CRUSHED ASPHALT BASE COURSE	SY	38,574
401.0001.002B	HMA, TYPE II; CLASS B	TON	5,861
401.0004.5240	ASPHALT BINDER, GRADE 52-40	TON	331
401.0013.0000	JOB MIX DESIGN	EACH	1
401.0015.0000	ASPHALT MATERIAL PRICE ADJUSTMENT	CSUM	1
603.0001.0018	CORRUGATED STEEL PIPE, 18"	LF	118
608.0006.0000	CURB RAMP	EACH	1
609.0002.0001	CURB AND GUTTER, TYPE 1	LF	30
615.0001.0000	STANDARD SIGN	SF	54
639.0001.0000	DRIVEWAY, RESIDENTIAL	EACH	118
639.0002.0000	APPROACH	EACH	13
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	LS	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HR	15
643.0002.0000	TRAFFIC MAINTENANCE	LS	ALL REQ'D
643.0025.0000	TRAFFIC CONTROL	CSUM	ALL REQ'D
643.2005.0000	PUBLIC INFORMATION PROGRAM	LS	ALL REQ'D
655.0001.0000	EROSION SEDIMENT AND POLLUTION CONTROL W/O CGP COVERAGE	LS	ALL REQ'D
660.0002.0000	FLASHING BEACON SYSTEM COMPLETE	LS	ALL REQ'D
661.0003.0000	LOAD CENTER, TYPE 2	EACH	1
670.2012.0000	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LS	ALL REQ'D
671.2000.0000	SPEED HUMP	EACH	2

ESTIMATING FACTORS

ITEM NO.	DESCRIPTION	VALUE
301.0001.0001	AGGREGATE BASE COURSE, GRADING D-1	2 TON/CY
203.0006.0000	BORROW	2 TON/CY
401.0001.002B	HMA, TYPE II, CLASS B	151 PCF @ 95%

GENERAL NOTES:

- ALL CULVERTS WILL BE INSTALLED WITH A CAMBER EQUAL TO 1% OF THE LENGTH OF THE PIPE. UNLESS THE PROJECT ENGINEER DIRECTS REMOVAL OR CAMBER REQUIREMENTS.
- SAW CUT ALL TRANSITION MATCH POINTS. APPLY STE-1 TACK COAT TO ALL SAW CUT FACES PRIOR TO PAVING. SAW CUTTING AND TACK COATING ARE SUBSIDIARY TO THE 401 PAY ITEMS.
- ENGINEER MAY ADJUST QUANTITY OF DRIVEWAYS.

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
 H:\Projects\Fbks_NF\NFHWY00633 FAST Area Surface Upgrades FFY2023\6 Design\4 C3D\2 Drawings\C Quantities and notes\C sheets-ESTIMATE OF QUANTITIES Tue, Mar/07/23 04:14pm

ESTIMATE OF QUANTITIES



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	C2	C3

DRIVEWAY SUMMARY

DRIVEWAY	ADDRESS	LT	RT	LENGTH (FT)	WIDTH (FT)	AREA (SF)	REMARKS
DW1	1078 AZTEC ROAD	X		2	16	32	4 DRIVEWAYS
DW2				2	24		
DW3				2	22		
DW4				2	18		
DW5	1089 AZTEC ROAD		X	2	25		
DW6	1094 AZTEC ROAD	X		2	20	40	
DW7	1095 AZTEC ROAD		X	2	25		
DW8	1098 AZTEC ROAD	X		2	20		
DW9	1104 AZTEC ROAD	X		2	20		
DW10	1105 AZTEC ROAD		X	2	24		
DW11	1124 AZTEC ROAD	X		2	52		
DW12	1131 AZTEC ROAD		X	2	30		
DW13	1152 AZTEC ROAD	X		2	27		
DW14	1166 AZTEC ROAD	X		2	60		
DW15	1177 AZTEC ROAD		X	2	20		
DW16	1186 AZTEC ROAD	X		2	25		
DW17	1189 AZTEC ROAD		X	2	22		
DW18	1190 AZTEC ROAD	X		2	25		
DW19				2	25		2ND DRIVEWAY
DW20	1224 AZTEC ROAD	X		2	22		
DW21	1250 AZTEC ROAD	X		2	20		
DW22	1075 CHARLOTTE ROAD		X	2	18		
DW23	1080 CHARLOTTE ROAD	X		2	25		
DW24	1083 CHARLOTTE ROAD		X	2	20		
DW25	1086 CHARLOTTE ROAD	X		2	18		
DW26	1087 CHARLOTTE ROAD		X	2	20		
DW27	1094 CHARLOTTE ROAD	X		2	20		
DW28	1099 CHARLOTTE ROAD		X	2	22		
DW29	1100 CHARLOTTE ROAD	X		2	20		
DW30	1108 CHARLOTTE ROAD	X		2	20		
DW31	1116 CHARLOTTE ROAD	X		2	20		
DW32	1124 CHARLOTTE ROAD	X		2	20		
DW33	1130 CHARLOTTE ROAD	X		2	22		
DW34	1131 CHARLOTTE ROAD		X	2	30		
DW35				2	24		2ND DRIVEWAY ON AZTEC RD
DW36	1134 CHARLOTTE ROAD	X		2	20		
DW37	1140 CHARLOTTE ROAD	X		2	18		
DW38	1075 COPPER STREET		X	2	25		
DW39			X	2	40		2ND DRIVEWAY
DW40			X	2	30		3RD DRIVEWAY, EAST OF POND
DW41	1096 COPPER STREET	X		2	32		
DW42	1128 COPPER STREET	X		2	35		
DW43	1142 COPPER STREET	X		2	30		
DW44	1152 COPPER STREET	X		2	20		
DW45	1182 COPPER STREET	X		2	30		
DW46	1147 CHOCTAW ROAD		X	2	18		
DW47	1155 CHOCTAW ROAD		X	2	22		
DW48	1163 CHOCTAW ROAD		X	2	25		
DW49	1173 CHOCTAW ROAD		X	2	20		
DW50	1179 CHOCTAW ROAD		X	2	18		
DW51	1189 CHOCTAW ROAD		X	2	16		
DW52	1197 CHOCTAW ROAD		X	2	18		
DW53	1204 CHOCTAW ROAD	X		2	22		
DW54	1207 CHOCTAW ROAD		X	2	28		
DW55	1215 CHOCTAW ROAD		X	2	22		
DW56			X	2	27		2ND DRIVEWAY ON COPPER ST

DRIVEWAY SUMMARY

DRIVEWAY	ADDRESS	LT	RT	LENGTH (FT)	WIDTH (FT)	AREA (SF)	REMARKS
DW57	1070 GLENN STREET	X		2	20	40	
DW58	1071 GLENN STREET		X	2	20		
DW59	1074 GLENN STREET	X		2	20	40	
DW60	1084 GLENN STREET			2	20		
DW61	1092 GLENN STREET	X		2	34		
DW62	1098 GLENN STREET	X		2	20		
DW63	1110 GLENN STREET	X		2	18		
DW64	1118 GLENN STREET	X		2	42		
DW65	1130 GLENN STREET	X		2	20		
DW66	1090 IONE	X		2	36		
DW67	1130 MARSH LAUREL AVENUE	X		2	24		
DW68	1140 MARSH LAUREL AVENUE	X		2	24		
DW69	1155 MARSH LAUREL AVENUE		X	2	20		
DW70			X	2	20		2ND DRIVEWAY
DW71	1160 MARSH LAUREL AVENUE	X		2	55		
DW72	1165 MARSH LAUREL AVENUE		X	2	20		
DW73	1170 MARSH LAUREL AVENUE	X		2	20		
DW74	1180 MARSH LAUREL AVENUE	X		2	22		
DW75	1181 MARSH LAUREL AVENUE		X	2	26		
DW76	1200 MARSH LAUREL AVENUE	X		2	20		
DW77	1201 MARSH LAUREL AVENUE		X	2	20		
DW78	1210 MARSH LAUREL AVENUE	X		2	30		
DW79	1211 MARSH LAUREL AVENUE		X	2	20		
DW80	1155 PUEBLO STREET		X	2	30		
DW81			X	2	20		2ND DRIVEWAY
DW82	1163 PUEBLO STREET		X	2	32		
DW83	1166 PUEBLO STREET		X	2	20		
DW84	1178 PUEBLO STREET		X	2	18		
DW85	1193 PUEBLO STREET	X		2	30		
DW86	1200 PUEBLO STREET		X	2	24		
DW87	1205 PUEBLO STREET	X		2	24		
DW88	1240 PUEBLO STREET		X	2	24		
DW89	1250 PUEBLO STREET		X	2	20		
DW90	1260 PUEBLO STREET		X	2	20		
DW91	1069 SHOSHONE DRIVE	X		2	20		
DW92	1070 SHOSHONE DRIVE		X	2	22		
DW93	1078 SHOSHONE DRIVE		X	2	20		
DW94	1081 SHOSHONE DRIVE	X		2	20		
DW95	1093 SHOSHONE DRIVE	X		2	28		
DW96	1096 SHOSHONE DRIVE		X	2	24		
DW97	1106 SHOSHONE DRIVE		X	2	20		
DW98	1068 VICKI LANE			2	20		
DW99	1077 VICKI LANE			2	30		
DW100	1087 VICKI LANE			2	20		
DW101	1097 VICKI LANE			2	30		
DW102	1105 VICKI LANE			2	30		
DW103	1115 VICKI LANE			2	20		
DW104	1123 VICKI LANE			2	34		
DW105	1130 VICKI LANE			2	32		

SUMMARIES
1 OF 2



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	C3	C3

DRIVEWAY SUMMARY

DRIVEWAY	ADDRESS	LT	RT	LENGTH (FT)	WIDTH (FT)	AREA (SF)	REMARKS
DW106	1133 VICKI LANE		X	2	16	32	
DW107	1142 VICKI LANE	X		2	24		
DW108		X		2	34		2ND DRIVEWAY
DW109	1148 VICKI LANE	X		2	20	40	
DW110	1155 VICKI LANE		X	2	20		
DW111	1165 VICKI LANE		X	2	22		
DW112	1170 VICKI LANE	X		2	24		
DW113	1175 VICKI LANE		X	2	24		
DW114	1178 VICKI LANE	X		2	26		
DW115	1185 VICKI LANE		X	2	38		
DW116	1186 VICKI LANE	X		2	24		
DW117	1190 VICKI LANE	X		2	20		
DW118	1195 VICKI LANE		X	2	20		

APPROACH SUMMARY

LOCATION	APPROACH ROAD	LT	RT	LENGTH (FT)	WIDTH (FT)	RADIUS (FT)	AREA (SF)	REMARKS
AZTEC ROAD	KIOWA COURT		X	20	22	40	20	
	CHERI WAY	X		20	22	40		
	THOMAS EDISON WAY	X		20	22	40	10	
	CHARLOTTE ROAD		X	20	22	40		
CHARLOTTE ROAD	THOMAS EDISON WAY		X	20	22	40		
COPPER STREET	LAVONNE COURT	X		20	22	40	5	
	BRATAGER'S ROAD	X		20	22	40		
PUEBLO STREET	GROUNDSEL AVENUE		X	20	22	40	5	
TAMARACK WOODS DR	SWEET GALE COURT	X		20	22	40		
	LABRADOR TEA COURT		X	20	22	40	20	
	CHIMING BELLS COURT	X		20	22	40		
	CALLA LILLY COURT		X	20	22	40		
VICKI LANE	VACATION STREET	X		20	22	40		

CULVERT SUMMARY

ROAD	STATION	LENGTH (FT)	REMARKS
GLENN STREET	12+74	42	
MARSH LAUREL AVENUE	0+27	48	
MARSH LAUREL AVENUE	4+35	30	

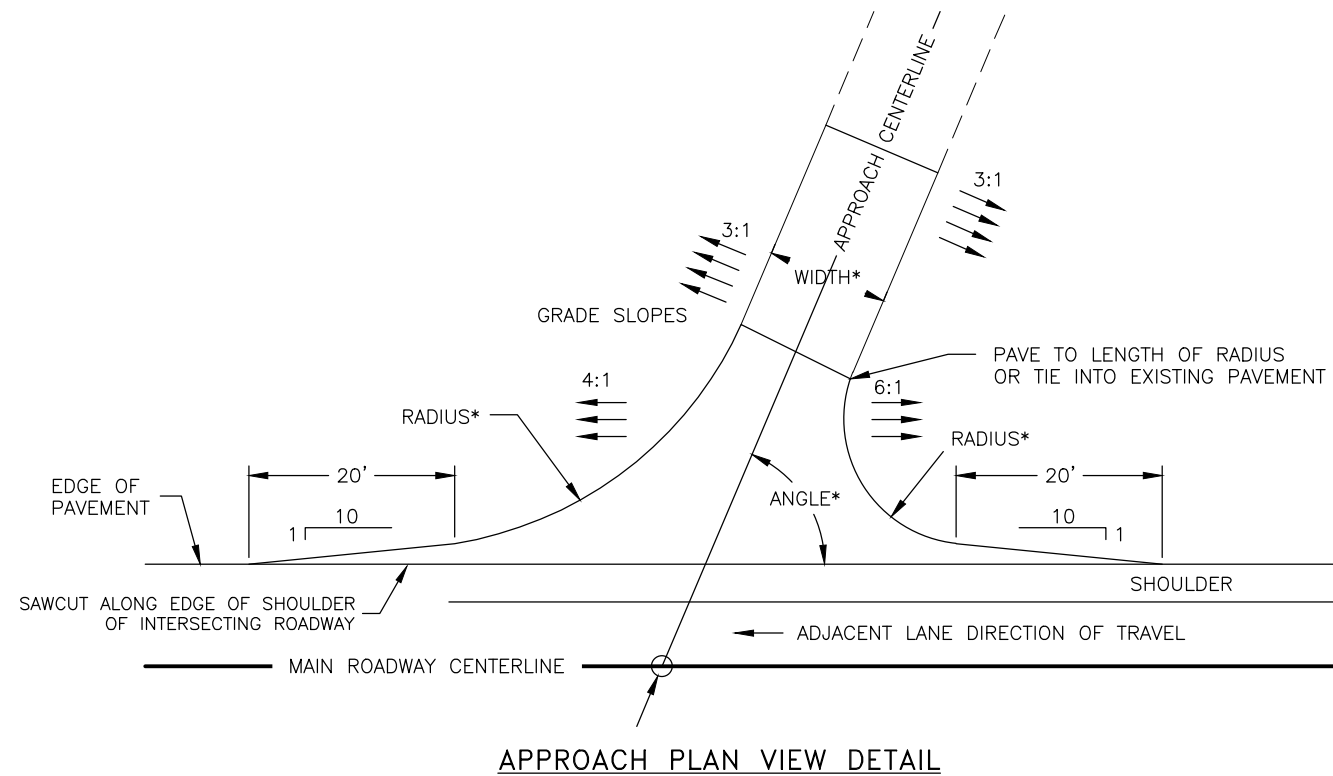
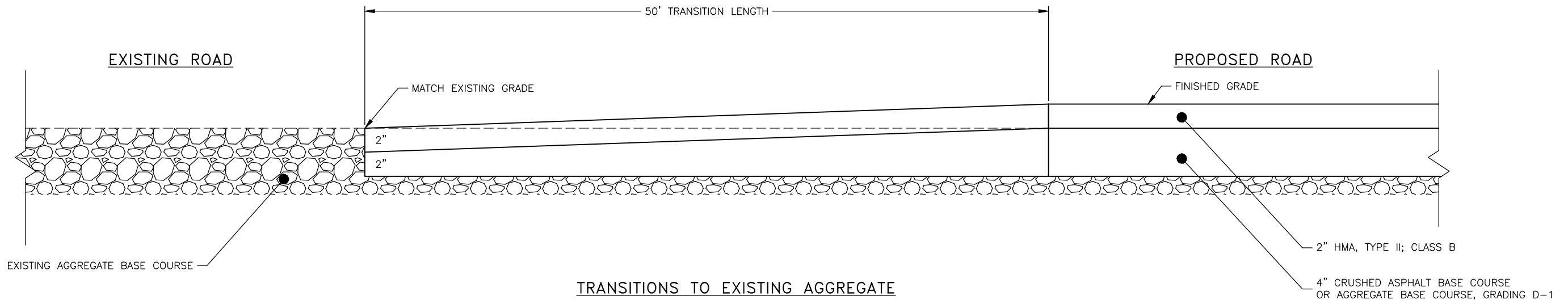
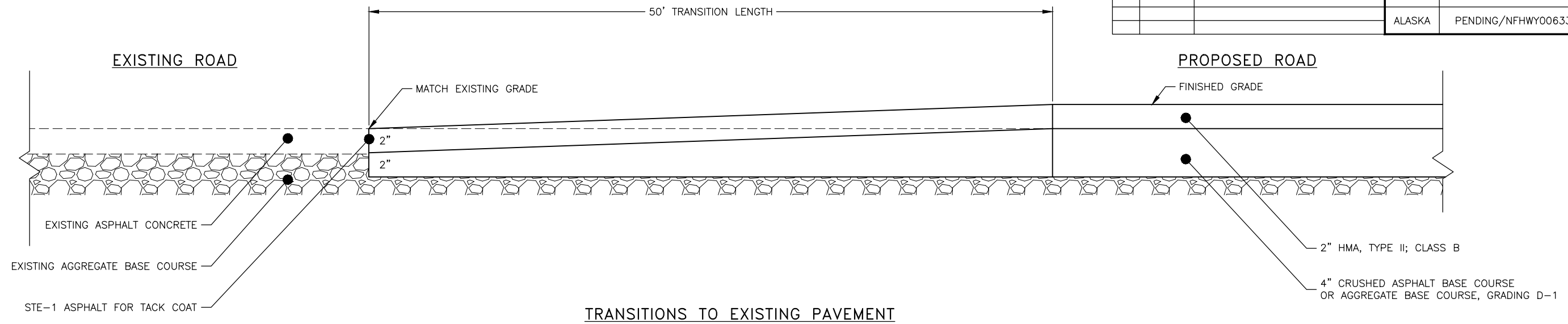
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
 H:\Projects\Fbks_NF\NFHWY00633_FAST_Area_Surface_Upgrade\FY2023\6_Design\4_C3D\2_Drawings\C_Quantities_and_notes\C_sheets-SUMMARIES_2_Fri_Mar/03/23_02:43pm

SUMMARIES
2 OF 2



3/8/23

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	E1	E4



GENERAL NOTES:

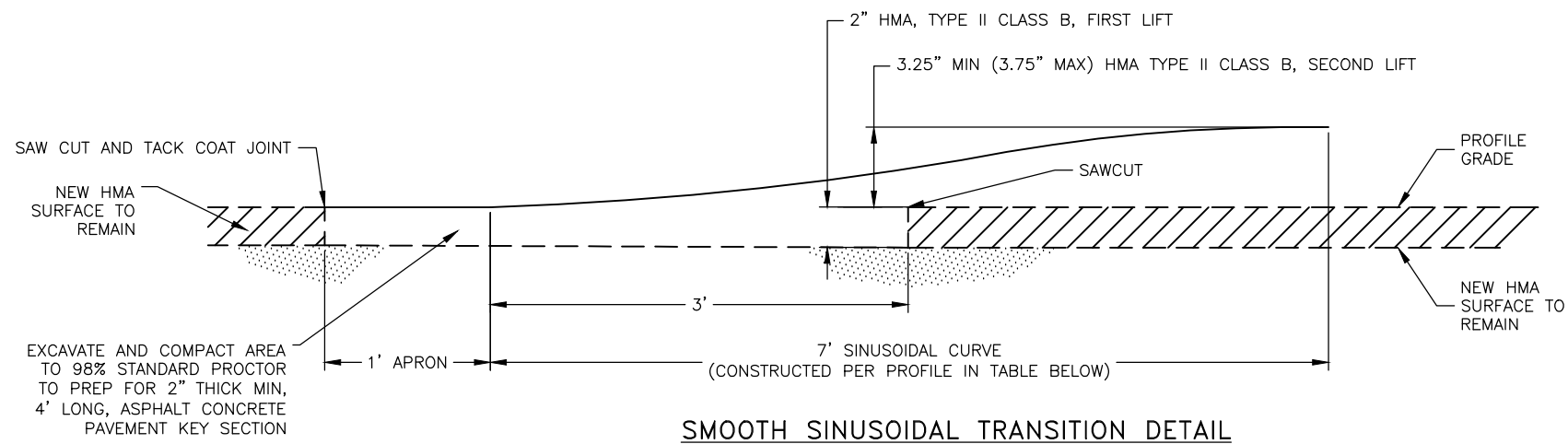
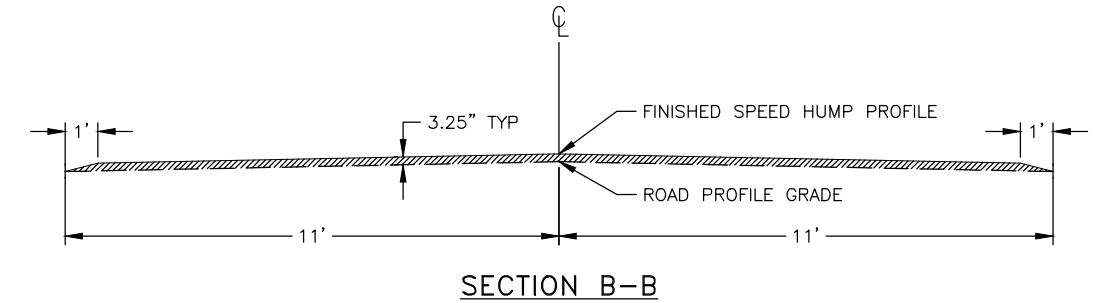
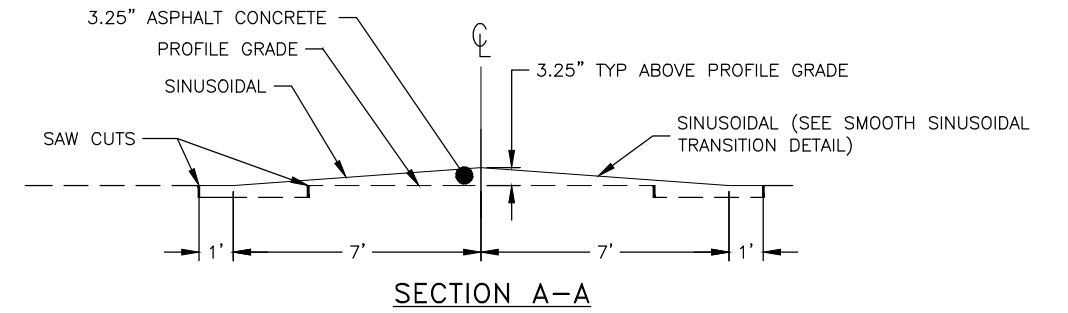
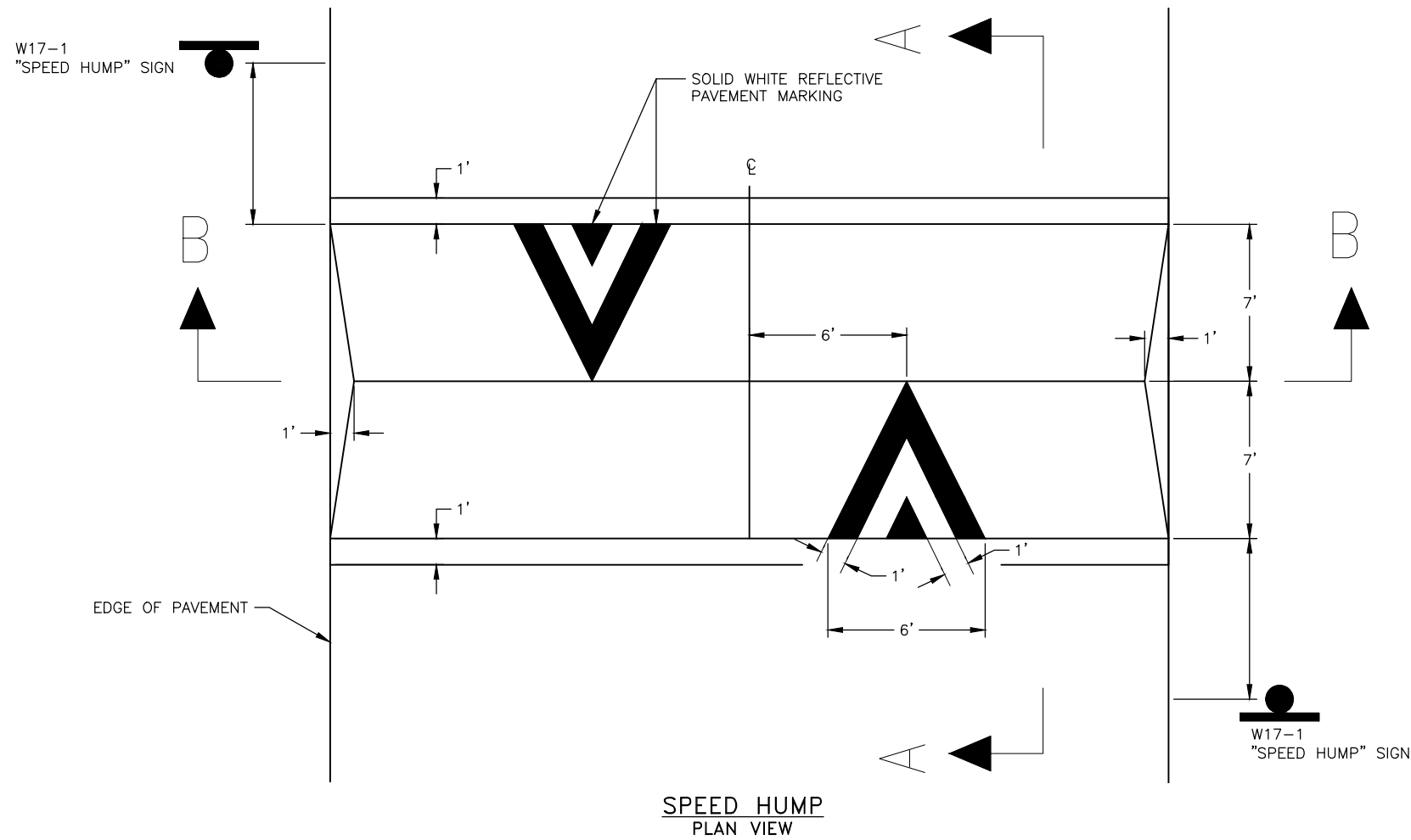
- BEYOND THE PAVING LIMITS, WARP EMBANKMENT SLOPE PER APPROACH PLAN VIEW DETAIL. GRADING OF SLOPES IS SUBSIDIARY TO CRUSHED ASPHALT BASE COURSE.

DETAILS
1 OF 4



3/8/23

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWHY00633	2023	E2	E4

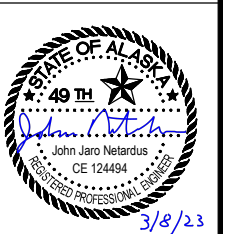


SPEED HUMP NOTES:

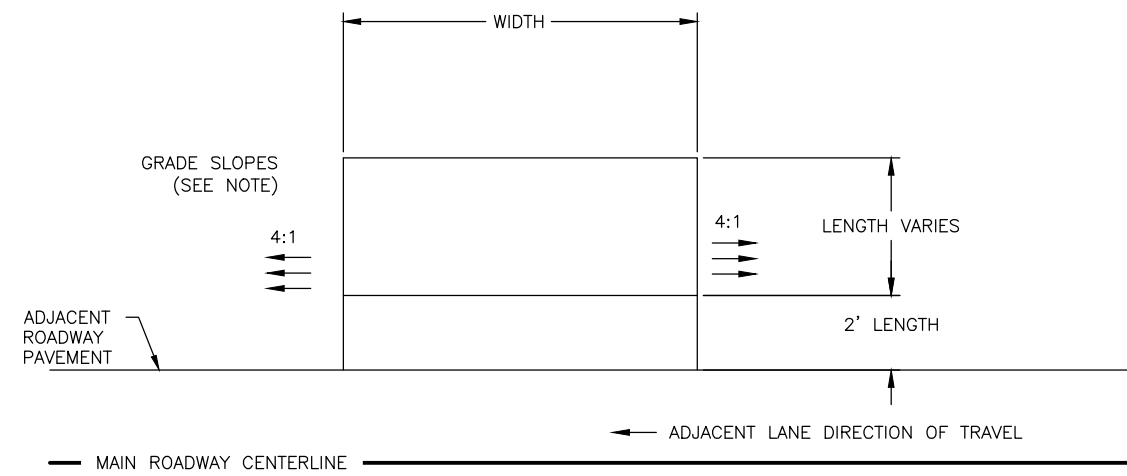
1. THE ENGINEER WILL DETERMINE THE EXACT LOCATION OF SPEED HUMPS IN ORDER TO PREVENT SPEED HUMPS FROM INTERFERING WITH RESIDENTIAL DRIVEWAYS AND MAILBOXES.
2. SPEED HUMPS SHALL BE 16' LONG MEASURED ALONG CENTERLINE, INCLUDING A 1' APRON ON EACH END.
3. RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
4. METHYL METHACRYLATE PAVEMENT MARKINGS ARE SUBSIDIARY TO PAY ITEM 671.2000.0000 SPEED HUMPS. EACH SYMBOL IS 12 SQUARE FEET.
5. INSTALL PERFORATED STEEL SIGN POSTS PER STANDARD DRAWING S-30.03 "SLEEVE TYPE-SOIL EMBEDMENT". ALL SPEED HUMPS TO HAVE W17-1 SIGNS.
6. PRIOR TO PAVING SPEED HUMPS, THE BASE COURSE SHALL BE GRADED AND RECOMPACTED TO 98% OF THE STANDARD PROCTOR.

DISTANCE (FEET)	APRON			SINUSOIDAL CURVE													
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
FINISHED HEIGHT (INCHES)	0.00	0.00	0.00	0.05	0.19	0.41	0.70	1.05	1.43	1.82	2.20	2.55	2.84	3.06	3.20	3.25	3.25

DETAILS
2 OF 4



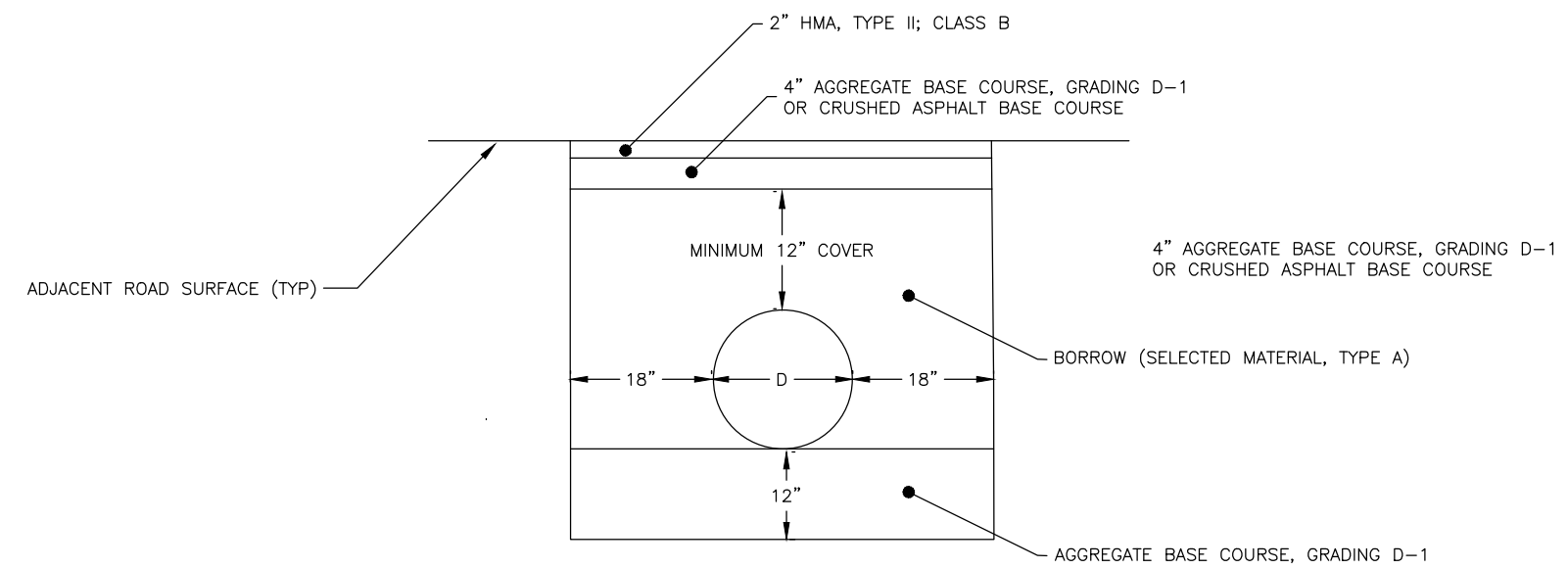
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWHY00633	2023	E3	E4



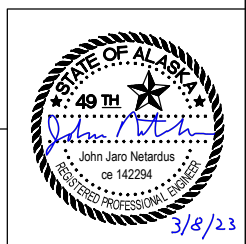
DRIVEWAY APRON DETAIL

DRIVEWAY DETAIL NOTES:

1. BLEND AND GRADE FOR A SMOOTH TRANSITION BETWEEN THE DRIVEWAY AND THE EXISTING GROUND.
2. ENSURE POSITIVE DRAINAGE OFF DRIVEWAY PAVEMENT.
3. TRANSITION FROM DRIVEWAY APRON TO YARD AT 4:1 FROM EDGE OF DRIVEWAY.
4. LENGTH OF PAVED DRIVEWAY APRONS IS 2' UNLESS OTHERWISE DIRECTED BY ENGINEER.



CULVERT TRENCH DETAIL

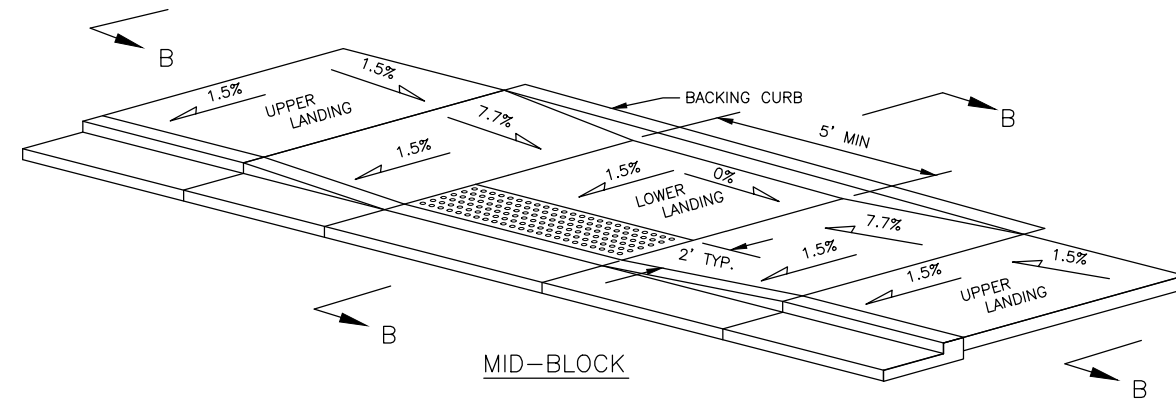


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H:\Projects\Fbks_NF\NFHWY00633_FAST_Area_Surface_Upgrade\FY2023\6_Design\4_C3D\2_Drawings\E_Misc_Details\E_DETAIL_SHEETS_updated-APPROACH_DEATILS_Mon_Mar/06/23_04:23pm

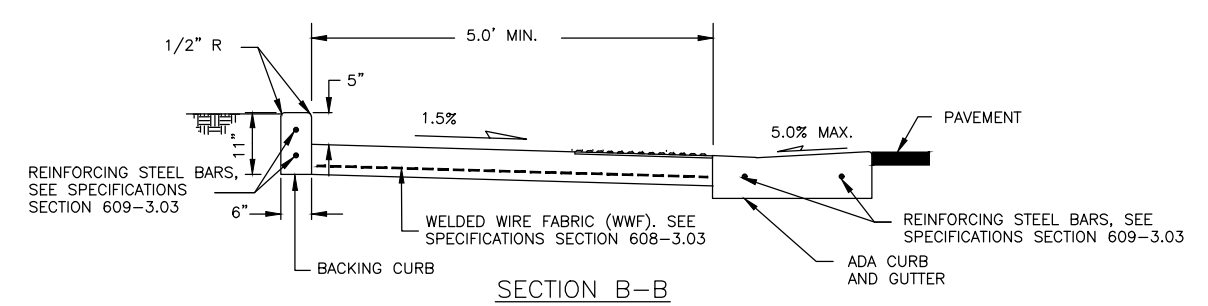
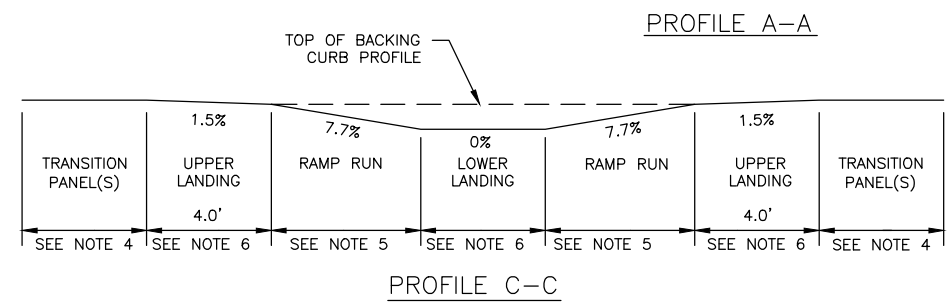
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	E4	E4

CONSTRUCTION NOTES:

1. CONSTRUCT RAMP RUN AND BOTH UPPER AND LOWER LANDING OF 6" CONCRETE WITH COARSE BROOM FINISH IN THE DIRECTION OF THE CROSS SLOPE.
2. NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT IF MAXIMUM OR MINIMUM GRADES CANNOT BE CONSTRUCTED. UNLESS PREVIOUSLY APPROVED BY THE ENGINEER, ANY FEATURE EXCEEDING MINIMUM OR MAXIMUM ALLOWABLE SLOPES WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
3. WHEN ONE PARALLEL CURB RAMP WILL SERVE TWO DIRECTIONS, USE THE ONE CROSSING DIRECTION DETAIL AND REFER TO THE STRIPING PLANS FOR CROSSWALK LAYOUTS.
4. **TRANSITION PANEL(S):** WHEN CONNECTING INTO EXISTING SIDEWALK, REPLACE ADJACENT SIDEWALK PANEL(S) LABELED AS TRANSITION PANEL(S), AS REQUIRED FOR CROSS SLOPE TRANSITION FROM THE EXISTING SIDEWALK TO THE NEW UPPER LANDING TO ENSURE THE UPPER LANDING IS CONSTRUCTED WITH A COMPLIANT CROSS SLOPE.
5. **RAMP RUN:** SURVEY PRIOR TO CONSTRUCTION OF ADJACENT CURB AND GUTTER TO VERIFY RAMP RUN LENGTHS REQUIRED FOR COMPLIANT RUNNING SLOPES. ADJUST THE RAMP RUN LENGTH AS NEEDED TO ENSURE COMPLIANT RAMP RUN RUNNING SLOPE. THIS SURVEY IS SUBSIDIARY TO 642 PAY ITEMS.
6. **UPPER LANDING LENGTH:** CONSTRUCT UPPER LANDING LENGTH TO 4.0 FEET. UPPER LANDING LENGTH MAY BE DECREASED TO 3.0 FEET IF APPROVED BY THE ENGINEER.
UPPER LANDING WIDTH: THE WIDTH OF ALL UPPER LANDINGS SHALL MATCH OR EXCEED THE WIDTH OF THE ADJACENT RAMP RUN.
LOWER LANDING: ENSURE LOWER LANDING HAS A 5-FT DIAMETER TURNING SPACE.
7. **DETECTABLE WARNING TILE:** INSTALL 24" DETECTABLE WARNING TILES FOR THE FULL WIDTH OF THE RAMP RUN.
8. **JOINTS:** INSTALL CONTINUOUS MINIMUM 6 INCH DEEP 1/2" EXPANSION JOINT AT ALL LOCATIONS WHERE SIDEWALK, CURB RAMP, OR CURB AND GUTTER (ANY TYPE) MEET. SEAL ALL EXPANSION JOINTS WITH HOT POURED ELASTIC TYPE JOINT SEAL CONFORMING TO SPECIFICATIONS 705-2.02 JOINT SEALANT. EXPANSION AND DUMMY JOINTS IN THE SIDEWALK AND CURB RAMP SHALL LINE UP WITH EXPANSION AND DUMMY JOINTS IN THE CURB AND GUTTER.

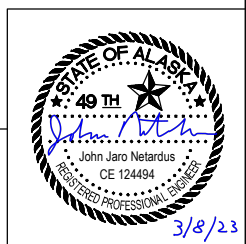


 DETECTABLE WARNING TILE
SEE NOTE 7



Note: Drawing not to scale

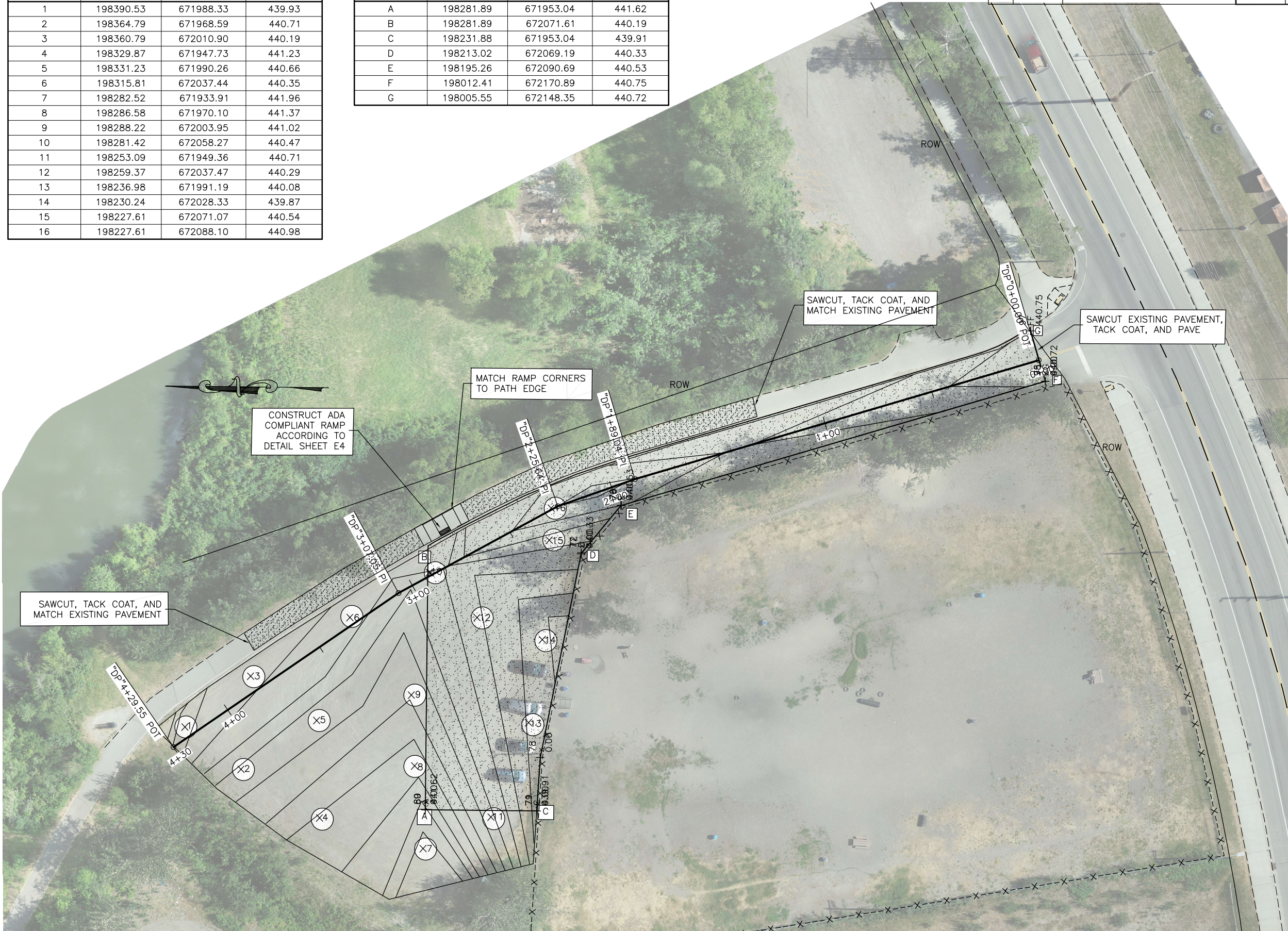
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
H:\Projects\Fbks_NF\FHwy00633 FAST Area Surface Upgrades\FY2023\6 Design\4 C3D\2 Drawings\E_Detail_Sheets_updated-RAMP_DETAILS_Mon_Mar/06/23 04:24pm



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	F1	F1

GRADING POINT TABLE			
POINT NO.	NORTHING	EASTING	ELEVATION
1	198390.53	671988.33	439.93
2	198364.79	671968.59	440.71
3	198360.79	672010.90	440.19
4	198329.87	671947.73	441.23
5	198331.23	671990.26	440.66
6	198315.81	672037.44	440.35
7	198282.52	671933.91	441.96
8	198286.58	671970.10	441.37
9	198288.22	672003.95	441.02
10	198281.42	672058.27	440.47
11	198253.09	671949.36	440.71
12	198259.37	672037.47	440.29
13	198236.98	671991.19	440.08
14	198230.24	672028.33	439.87
15	198227.61	672071.07	440.54
16	198227.61	672088.10	440.98

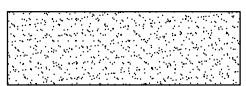
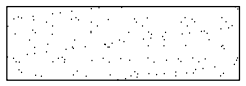
PARKING PAD POINT TABLE			
POINT NO.	NORTHING	EASTING	ELEVATION
A	198281.89	671953.04	441.62
B	198281.89	672071.61	440.19
C	198231.88	671953.04	439.91
D	198213.02	672069.19	440.33
E	198195.26	672090.69	440.53
F	198012.41	672170.89	440.75
G	198005.55	672148.35	440.72



GENERAL NOTES:

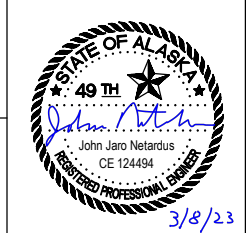
- FROM 1+20 TO 3+80, REMOVE ASPHALT FROM BIKE PATH ADJACENT TO DRIVING SURFACE, CUT TREE ROOTS TO DEPTH OF 1 FOOT, AND REPAVE. THIS IS SUBSIDIARY TO SIDEWALK REMOVAL.
- CONSTRUCT ADA COMPLIANT RAMP ACCORDING TO SHEET V8, USING MIDBLOCK DETAIL AT 2+75 OR A LOCATION DETERMINED BY ENGINEER.
- DO NOT DISTURB EXISTING FENCE.
- ENSURE DRAINAGE AWAY FROM THE PARKING AREA.
- ALL POINTS ARE IN FAIRBANKS LDP.

PAVEMENT LEGEND:

- REMOVE AND REPLACE PAVEMENT SIDEWALK: 
- NEW PAVEMENT: 

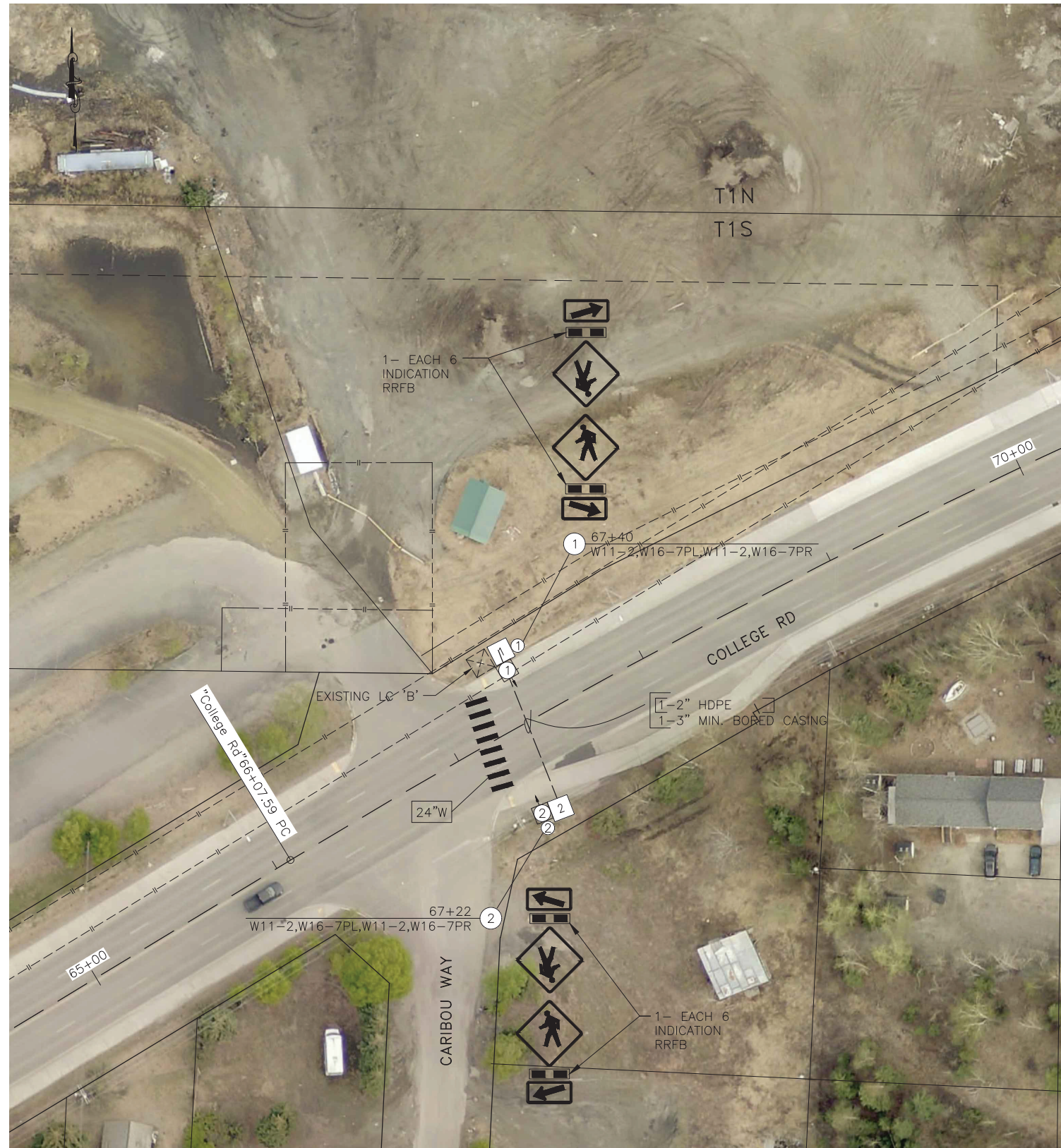
PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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DOG PARK GRADING



PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
H:\Preconstruction\Support_Traffic & Safety\Resources\Projects\NFHWY00633_RRFB\Drawings\College Rd RRFB-Hwy-Gen Fr. Mar/03/23 02:14pm

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING / NFHWY00633	2023	H1	H6

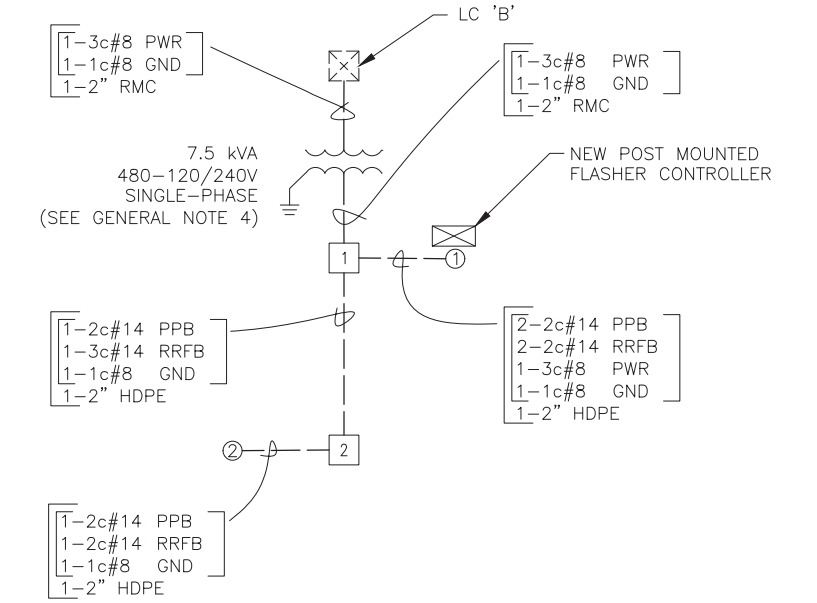
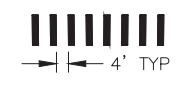


PLAN SHEET GENERAL NOTES

1. LOCATE RRFB'S PER PLAN OR AS DETERMINED IN THE FIELD BY THE ENGINEER.
2. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE RIGHT-OF-WAY (ROW).
3. STAKE PLACEMENT OF THE RRFBS. ENGINEER TO APPROVE LOCATION BEFORE CONSTRUCTING.
4. PEDESTRIAN CROSSWALK STRIPING IS INLAID MMA AND PAID UNDER ITEM 660.2012.0000.

660.2012.0000 STRIPING NOTES AND DETAIL

1. CROSSWALK STRIPING SHALL BE 24" WIDE WHITE INLAID METHYL METHACRYLATE MARKINGS.



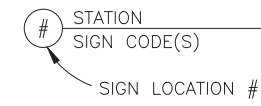
WIRING GENERAL NOTES

1. CONNECTIONS SHOWN ARE SCHEMATIC.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING UTILITIES IN THE PROJECT WORK AREAS. ALL UTILITIES WITHIN, UNDER, AND OVER THE PROJECT SHALL REMAIN IN PLACE AND IN SERVICE DURING CONSTRUCTION. LOCATE ALL UTILITIES (OVERHEAD AND BURIED) TO THE EXTENT THEY ARE KNOWN OR SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. BEFORE CONDUCTING ANY GROUND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL VERIFY LOCATIONS BY CONTACTING THE 811 ALASKA DIG LINE AT 1-800-478-3121 OR THE UTILITY COMPANY(S). THERE ARE UTILITIES IN THE PROJECT AREA, INCLUDING CITY OF FAIRBANKS, DOT&PF AND GVEA, THAT DO NOT SUBSCRIBE TO THE DIG LINE.
3. CONTRACTOR MUST ENSURE THAT ALL CONDUCTORS ROUTED IN THE SAME RACEWAY HAVE INSULATION RATINGS EQUAL TO AT LEAST THE MAXIMUM CIRCUIT VOLTAGE TO ANY CONDUCTOR WITHIN THAT RACEWAY IN COMPLIANCE WITH NEC 300.3(C)(1).
4. CONTRACTOR MUST SUPPLY AND INSTALL ENCAPSULATED DRY-TYPE STEP-DOWN TRANSFORMER WITH THE FOLLOWING RATINGS: 7.5kVA, 480-120/240V, SINGLE-PHASE, 3W, NEMA 3R, 180-DEG C INSULATION SYSTEM, 115-DEG C RISE, NRTL-LISTED. INSTALL A #8 AWG GROUNDING ELECTRODE CONDUCTOR BETWEEN THE NEUTRAL OF THE TRANSFORMER SECONDARY AND THE EXISTING GROUNDING (GROUND ROD). SECURELY MOUNT THE TRANSFORMER TO THE EXISTING WOOD POLE (OPPOSITE THE EXISTING LOAD CENTER) A MINIMUM OF 3'-6" ABOVE GRADE USING A CHANNEL STRUT RACK OR OTHER METHOD APPROVED BY THE ENGINEER. RRFB CONTROL REQUIRES A 120V, 2W SUPPLY FROM THIS TRANSFORMER.
5. HDPE MAY BE USED IN AREAS THAT ARE NOT EXPOSED AND IN WHICH THE HDPE IS INSTALLED PER NEC ARTICLE 353.

WIRING DIAGRAM CODING LEGEND

DET = DETECTION CONDUIT	5c#14	TRAFFIC SIGNALS
GND = GROUND	7c#14	PROTECTED-PERMITTED SIGNALS
HDPE = HIGH DENSITY POLYETHYLENE	5c#14	PEDESTRIAN SIGNALS
INT = INTERCONNECT CABLE	2c#14	PPB OR RRFB
ILL = ILLUMINATION	3c#8	ILLUMINATION OR RRFB
LL = LOOP LEAD-IN	3c#6	SIGNAL POWER
OPC = OPTICOM CABLE	1c#8	BARE COPPER GROUND
PED = PEDESTRIAN SIGNAL	6 pr #18	VIDEO DETECTION
PPB = PEDESTRIAN PUSH BUTTON	12 pr #19	INTERCONNECT CABLE
PVC = POLYVINYLCHLORIDE CONDUIT		
PWR = POWER CONDUCTORS FOR SIGNAL CONTROLLER		
RMC = RIGID METAL CONDUIT		
RRFB = RECTANGULAR RAPID FLASHING BEACON		
SIG = SIGNAL		
VDET = VIDEO DETECTION		
(E) = EXISTING		

SIGNING KEY



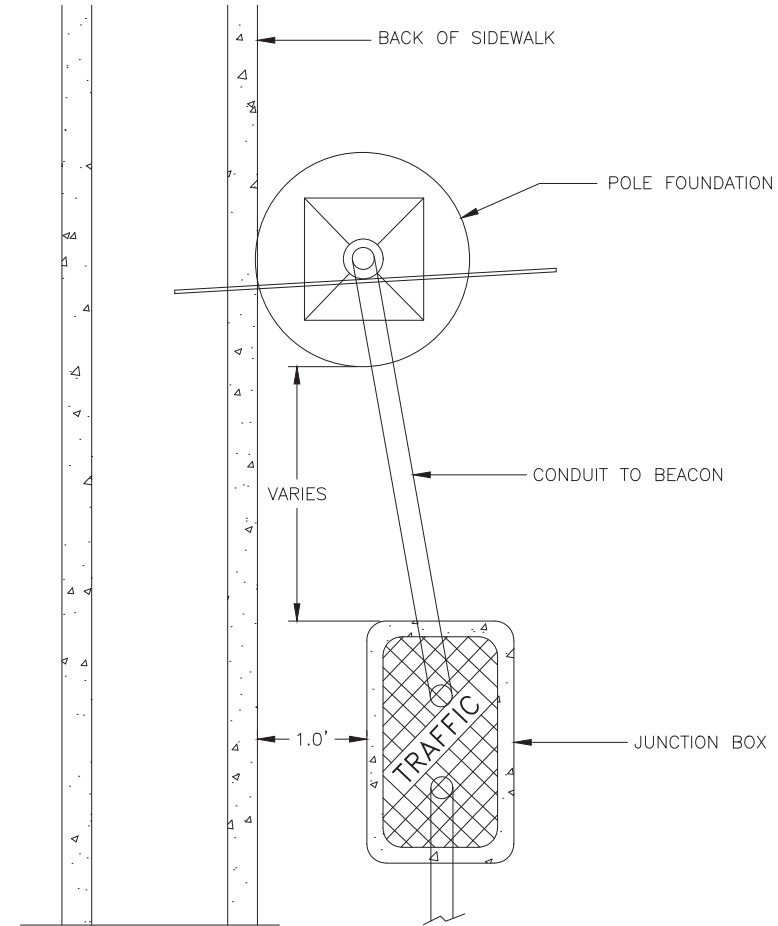
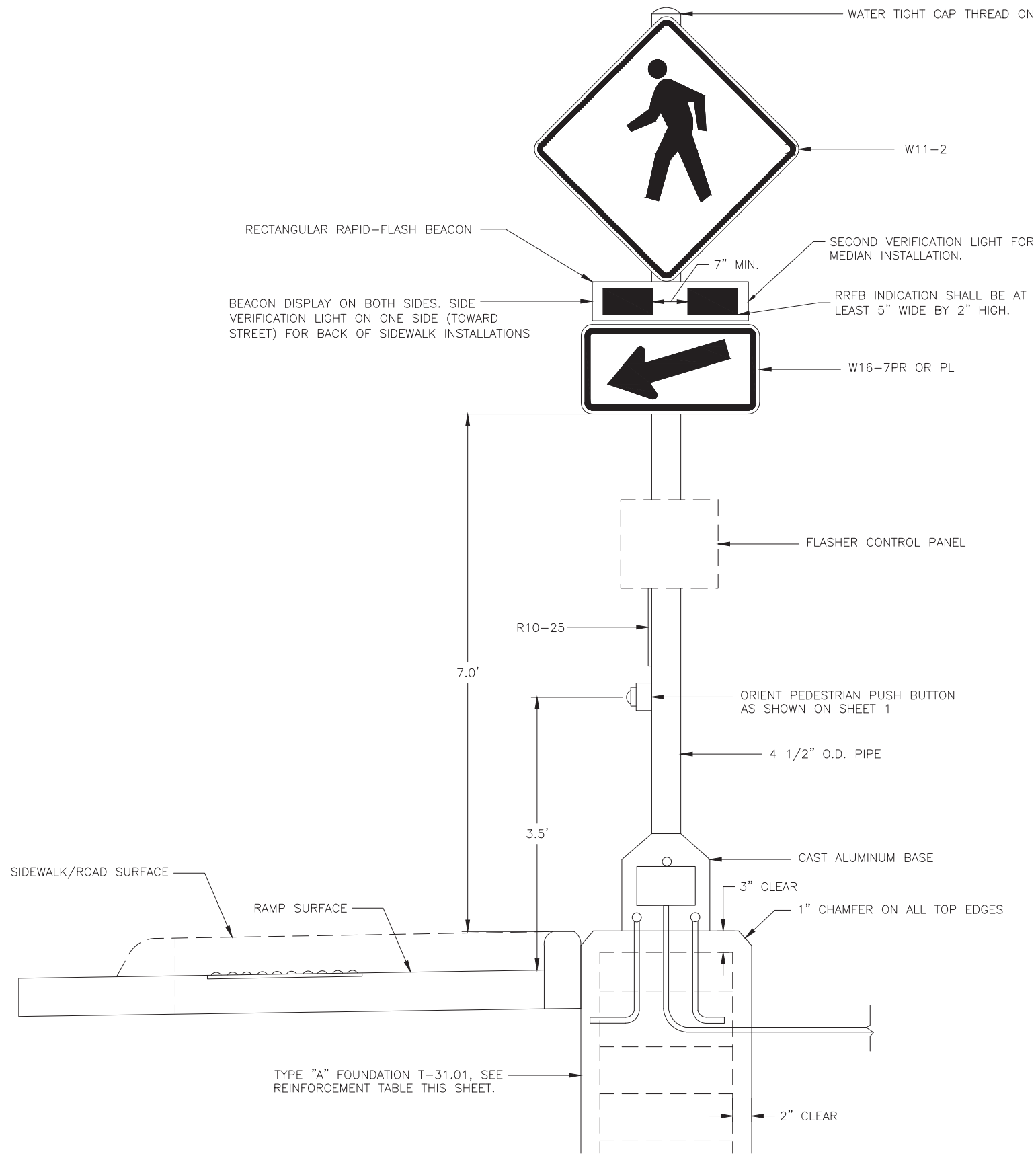
RECTANGULAR RAPID FLASHING BEACON



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING / NFWY00633	2023	H2	H6

GENERAL NOTES:

1. LOCATE J-BOXES 1' FROM BACK OF EDGE OF PAVEMENT.
2. WHEN CONDUIT RUNS ARE PARALLEL TO THE ROADWAY, INSTALL THEM 1' FROM THE BACK OF EDGE OF PAVEMENT.
3. USE SCHEDULE 40 STEEL PIPE THAT CONFORMS TO ASTM A 53 GRADE 8.
4. FURNISH ALL FLASHER POSTS HOT-DIP GALVANIZED ACCORDING TO ASTM A123.
5. SET THE END OF THE 2" RMC 2" ABOVE THE TOP OF THE FOUNDATION.
6. USE IRREVERSIBLE COMPRESSION CONNECTOR OR CADWELD TO BOND GROUNDING CONDUCTOR TO REINFORCEMENT CAGE. THE INSTALLATION MUST COMPLY WITH THE REQUIREMENTS OF NEC ARTICLE 250. SEE SECTION 660 FOR BONDING AND GROUNDING REQUIREMENTS.
7. DRILL AND TAP THE POLE FOR ALL MOUNTING HOLES FOR SIGN AND PEDESTRIAN PUSH BUTTON HOUSING. REMOVE BURRS AFTER DRILLING. TREAT BARE STEEL SURFACES IN ACCORDANCE WITH AASHTO M36.
8. APPLY ANTI-SEIZE COMPOUND TO CAP SCREWS TAPPED DIRECTLY INTO POLE.
9. SEE STANDARD DRAWINGS S-20.10 AND S-23.00 FOR MOUNTING AND BRACING AS REQUIRED FOR SIGNAGE.
10. SET FLASHING DURATION TO 25 SECONDS. FINAL TIMING TO BE ESTABLISHED IN THE FIELD BY THE ENGINEER.
11. THE OUTSIDE EDGES OF THE RRFB, INCLUDING HOUSINGS, SHALL NOT PROJECT BEYOND THE OUTSIDE EDGES OF THE W11-2 SIGN.



JUNCTION BOX PLAN VIEW DETAIL

REINFORCEMENT					
VERTICAL BARS			HOOPS		
QUANTITY	SIZE	LENGTH	QUANTITY	SIZE	DIAMETER
7	#5	3'-6"	7	#4	1'-8"

RRFB SIGNING AND FOUNDATION DETAILS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING / NFHWY00633	2023	H3	H6

SIGNING SUMMARY

LOC. NO.	STATION	LOCATION	ASDS CODE	LEGEND	SIZE (INCHES)	BRACING/FRAMING		AREA (SQ.FT.)	MTG. (FT.)	DIR.	POST		REMARKS
						BRACED	FRAMED				TYPE	SIZE (INCHES)	
1			W11-2	ADVANCED PEDESTRIAN CROSSING (SYMBOL)	30 X 30		X	6.25			N		MOUNT TO POLE 1.
			W16-7PL	LEFT DIAGONAL ARROW (SYMBOL)	24 X 12		X	2.00			N		
			W11-2	ADVANCED PEDESTRIAN CROSSING (SYMBOL)	30 X 30		X	6.25			S		
			W16-7PR	RIGHT DIAGONAL ARROW (SYMBOL)	24 X 12		X	2.00			S		
2			W11-2	ADVANCED PEDESTRIAN CROSSING (SYMBOL)	30 X 30		X	6.25			N		MOUNT TO POLE 2.
			W16-7PR	RIGHT DIAGONAL ARROW (SYMBOL)	24 X 12		X	2.00			N		
			W11-2	ADVANCED PEDESTRIAN CROSSING (SYMBOL)	30 X 30		X	6.25			S		
			W16-7PR	RIGHT DIAGONAL ARROW (SYMBOL)	24 X 12		X	2.00			S		
TOTAL = 33.00													

POST TYPE LEGEND:

PST = PERFORATED STEEL TUBE
 TS = TUBE STEEL (SQUARE STRUCTURAL STEEL TUBING)
 W_X_ = WIDE FLANGE

BASE & JUNCTION BOX SCHEDULE

LOCATION		DESCRIPTION		BASE TYPE			JUNCTION BOX TYPE				REMARKS	
STATION	OFFSET	POLE NO.	JUNCTION BOX NO.	CIDH	P	A	IA	II	III	IV		
		1				X						
		2				X						
			1				X					
			2				X					

BASE TYPE LEGEND:

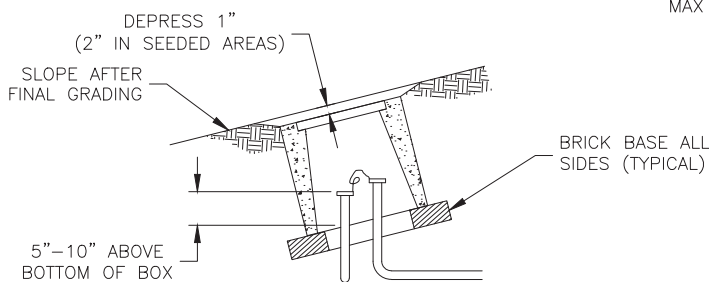
P = PRECAST BASE (FOUNDATION).
 A = TYPE A SEE T-31.00
 CIDH = CAST IN DRILLED HOLE

PEDESTRIAN DETECTION SCHEDULE

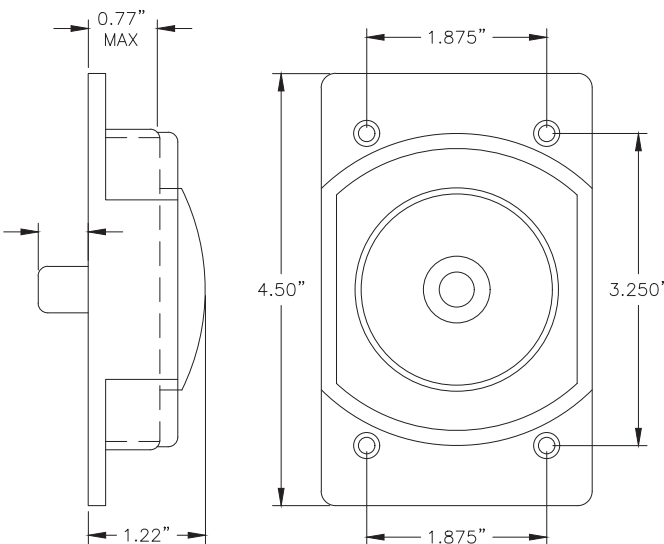
POLE	PUSH BUTTON	PHASE	REMARKS
1	1	*	SEE NOTE 1
2	2	*	SEE NOTE 1

PEDESTRIAN DETECTION NOTES:

- INSTALL AN R10-25 SIGN WITH PEDESTRIAN PUSH BUTTON.
- INSTALL PUSH BUTTONS FACING EDGE OF PAVEMENT FOR POSTS MOUNTED ADJACENT THE ROADWAY.



TYPE IA J-BOX INSTALLATION ON SLOPE



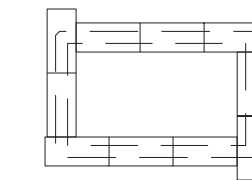
PEDESTRIAN PUSH BUTTON DETAIL

FASTENER SPECIFICATION TABLE

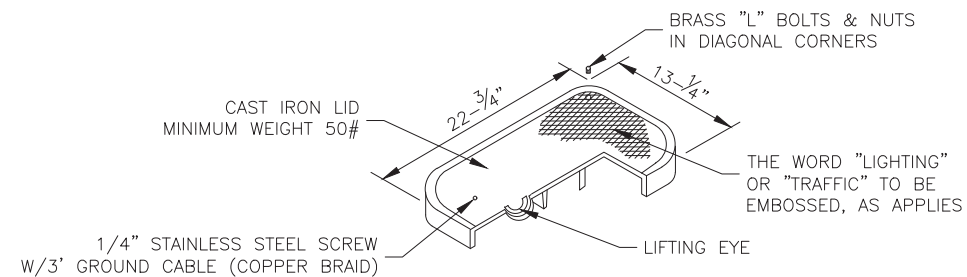
FASTENERS	STEEL	STAINLESS STEEL
BOLTS	ASTM A307	ASTM F593
NUTS	ASTM A563	ASTM F594
WASHERS	ASTM A36	ASTM A480

FASTENER TABLE NOTE:

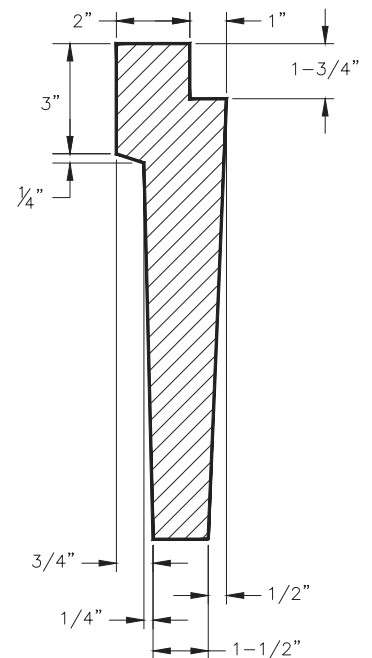
THESE SPECIFICATION APPLY TO ALL SIGN FASTENER HARDWARE ON THIS PROJECT.



BRICK BASE DETAIL
TYPE 1A JUNCTION BOX



TYPE IA JUNCTION BOX DETAIL

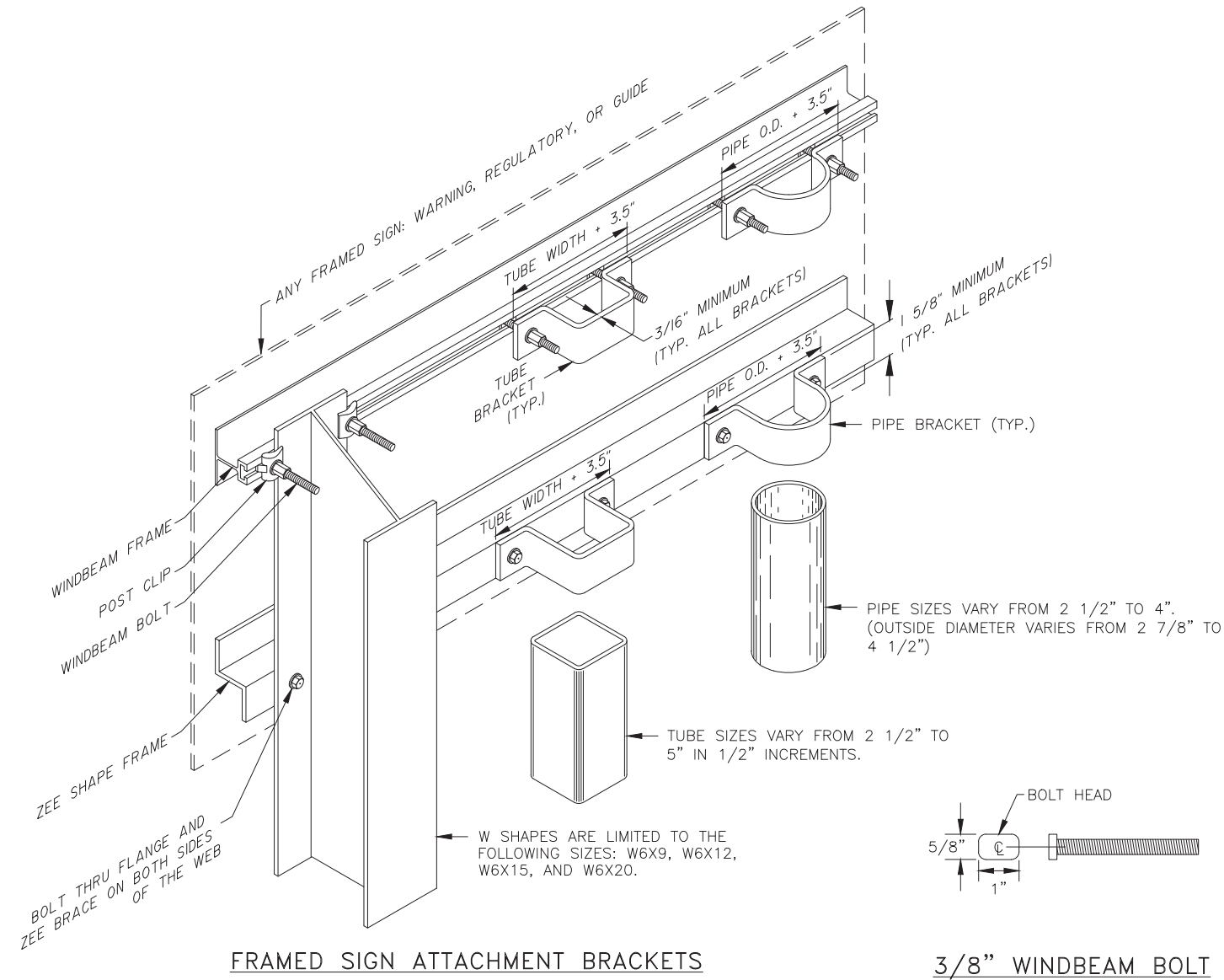


SECTION A-A

SIGNING NOTES:

- MOUNT SIGNS THAT PROJECT OVER OR WITHIN 2 FEET OF THE EDGE OF PAVEMENT WITH A MOUNTING HEIGHT OF 8 FEET.
- MOUNTING HEIGHTS ARE PER STANDARD DRAWING S-05.01 UNLESS OTHERWISE NOTED.
- DETERMINE POST LENGTHS IN THE FIELD. DO NOT EXTEND POSTS ABOVE TOP OF SIGN.
- INSTALL "TUBE POST SIGN BRACING" AS SHOWN ON STANDARD DRAWING S-01.00 ON ALL SIGNS, EXCEPT D3-1 SERIES SIGNS, MOUNTED ON A SINGLE PST POST AND HAVING A HORIZONTAL DIMENSION OF 30 INCHES OR GREATER. INSTEAD OF THE 5/8" GALVANIZED BOLTS AND NYLON LOCKING NUTS SHOWN ON STANDARD DRAWING S-01.00, USE GALVANIZED 3/8" BOLTS, SPLIT LOCK WASHERS AND NUTS. STAINLESS STEEL FASTENER HARDWARE MAY BE USED INSTEAD OF GALVANIZED. 1/4" X 1 1/2" ALUMINUM ALLOY 6061-T6 BAR MAY ALSO BE USED TO FABRICATE SIGN BRACES.
- ATTACH ALL SIGNS TO THEIR SUPPORTS WITH 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PST POSTS WITH ALUMINUM DRIVE RIVETS. WIND WASHERS ARE NOT REQUIRED WITH DRIVE RIVETS. INCLUDE SPLIT LOCK WASHERS WHEN BOLTS ARE USED.
- ALL FASTENER HARDWARE SHALL MEET THE REQUIREMENTS OF THE "FASTENER SPECIFICATION TABLE" ON THIS SHEET.
- MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNING UP AT ANY TIME.
- LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO: PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS, AND TELEPHONE AND ELECTRICAL CABLES, PRIOR TO INSTALLING SIGN POSTS. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON THE PLANS.
- INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED STEEL TUBE.
- TRANSFORMER BASES IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- DELIVER ALL SALVAGED SIGNS TO THE FAIRBANKS MAINTENANCE YARD LOCATED AT 2301 PEGER ROAD. CALL 451-2323 FOR ADDITIONAL DELIVERY INSTRUCTIONS. COORDINATE DELIVERY THROUGH THE PROJECT ENGINEER.
- ALL SIGN BACKGROUNDS ARE FLUORESCENT YELLOW-GREEN UNLESS OTHERWISE NOTED.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING / NFWY00633	2023	H4	H6



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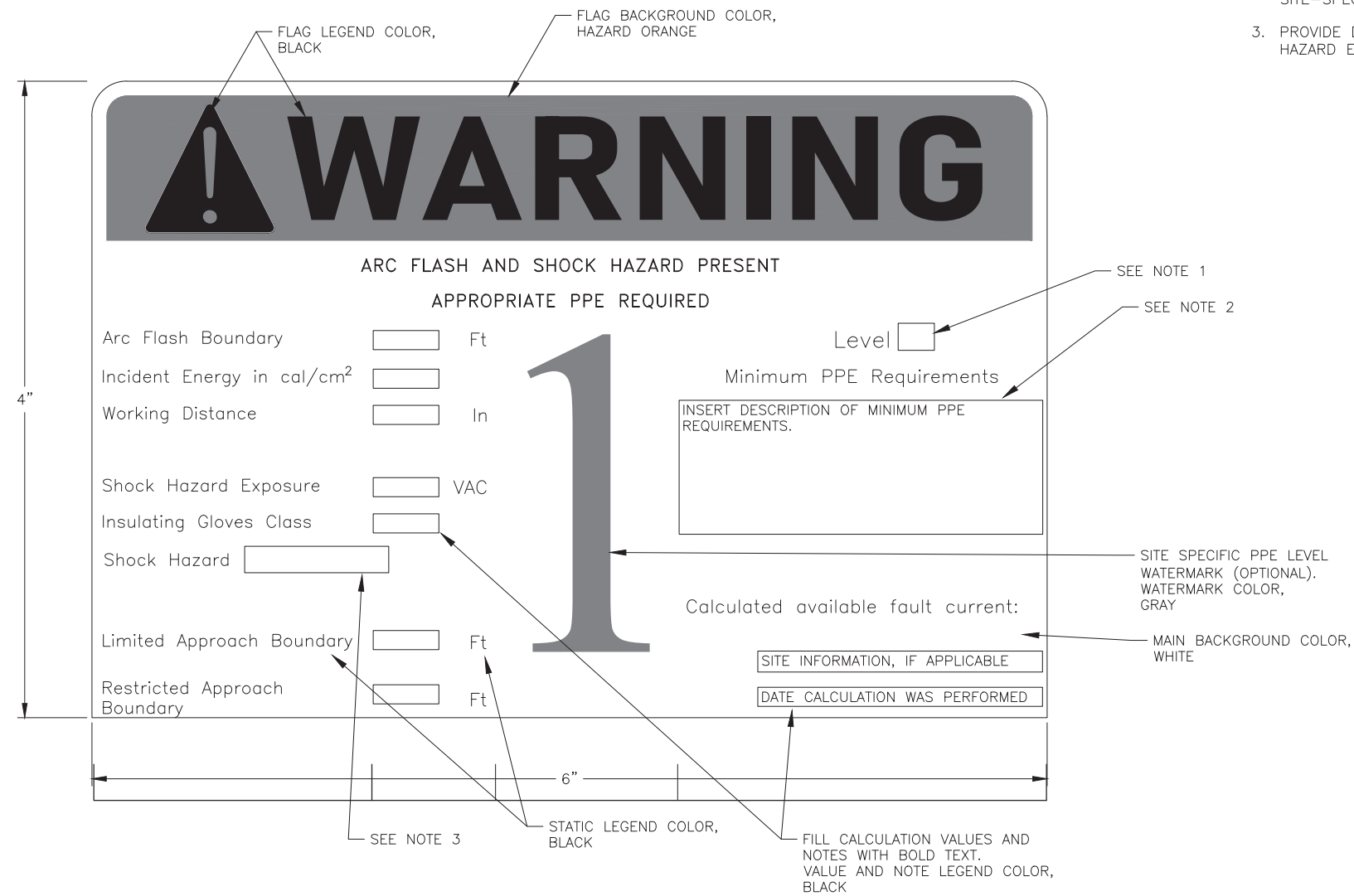
RRFB DETAILS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING / NFHWY00633	2023	H5	H6

NOTES:

1. APPLICABLE STATE OF ALASKA DOT&PF ELECTRICAL EQUIPMENT MUST BE LABELED WITH DOT&PF-DEFINED SITE-SPECIFIC PPE LEVELS, AS DEFINED IN NFPA 70E 130.5(H)(3)(c). THE LEVELS ARE: LEVEL 1 (0 TO 4 CAL/CM²), 2 (4.1 TO 8.0 CAL/CM²), 3 (8.1 TO 25.0 CAL/CM²), 4 (25.1 TO 39.9 CAL/CM²), OR WP (WORK PROHIBITED, FOR EQUIPMENT IN WHICH THE CALCULATED ARC FLASH INCIDENT ENERGY IS \geq 40 CAL/CM²).
2. MINIMUM PPE REQUIREMENTS FOR EACH PPE LEVEL DESCRIBED IN NOTE 1 ARE THE SAME REQUIREMENTS AS DESCRIBED IN NFPA 70E TABLE 130.7(C)(15)(c). THESE PPE REQUIREMENTS ARE TO BE USED AS THE SITE-SPECIFIC PPE LEVELS.
3. PROVIDE DESCRIPTION OF EQUIPMENT CONFIGURATIONS IN WHICH A HAZARD EXISTS. FOR EXAMPLE "WHEN COVER REMOVED."



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ARC FLASH & SHOCK
HAZARD LABELING



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING / NFHWY00633	2023	H6	H6

SUMMARY OF EXISTING LOAD CENTER B									
LOAD CENTER TYPE:	TYPE 2, MOUNTED ON GVEA POLE								
MAINTAINED BY:	STATE OF ALASKA								
SERVING UTILITY:	GOLDEN VALLEY ELECTRIC ASSOCIATION (GVEA)								
SERVICE CONDUIT TYPE:	RMC								
LOCATION DATA (APPROX. 64.862878, -147.780632)									
LOAD CENTER:	COLLEGE RD & CARIBOU WAY, NE								
POWER SOURCE:	15 kVA GVEA POLE-TOP TRANSFORMER								
PHOTOELECTRIC CONTROL:	NONE								
SERVICE VOLTAGE:	240/480V, 1-PHASE, 3-WIRE WITH GROUNDED NEUTRAL								
PROVIDE METER SOCKET	EXISTING, GVEA 349257 (84 524 414)								
MAIN BREAKER:	480V, 100A								
CONTACTOR:	EXISTING, (2) TWO-POLE 30A								
AIC RATING:	10 KAIC AT 480V								
PANEL A									
POLE	AMP TRIP	DESCRIPTION	POLE KVA	A φ	B φ	POLE KVA	DESCRIPTION	AMP TRIP	POLE
-	100/2	MAIN BREAKER SERVICE DISCONNECT	-			-	-	-	-
1	15/2	LED LIGHTING (B-1)	1.6	1.7		0.1	CONTROL	15/1	2
3			1.6		3.6	2.0	LED LIGHTING (B-2)	15/2	4
5	15/2	SPARE	-	2.0		2.0			6
7			-		0.0	-	SPARE	15/2	8
9	20/2	RRFB CNTL CAB	1.0	1.0		-			10
11			1.0		1.0	-	SPACE	-	12
13	-	SPACE	-	0.0		-	SPACE	-	14
* CIRCUIT THROUGH CONTACTOR -				4.7	4.6		PANEL A KVA		9.3
BOLD = PROPOSED LOAD							AMPS AT 480V		19.4
NON-BOLD = EXISTING LOAD									

ARC FLASH AND SHOCK HAZARD RESULTS - LC "B" AT COLLEGE RD & CARIBOU WAY	
ARC FLASH BOUNDARY	3.4 FT
INCIDENT ENERGY IN CAL/CM ²	4.3
WORKING DISTANCE	18 INCHES
SHOCK HAZARD EXPOSURE	480 VAC
INSULATING GLOVES CLASS	00
SHOCK HAZARD	WHEN COVER REMOVED
LIMITED APPROACH BOUNDARY	3.5 FT
RESTRICTED APPROACH BOUNDARY	1.0 FT
CALCULATED DATE	11/01/2022

SHORT CIRCUIT CALCULATION - LC "B"	
480V, POWER FACTOR = 0.90, SERVICE LATERAL CONSISTS OF ONE ALUMINUM CONDUCTOR PER PHASE IN RMC & OPEN AIR.	
TRANSFORMER RATING	15 kVA
VOLTAGE	240/480 VAC SECONDARY
TRANSFORMER IMPEDANCE	1.2% MINIMUM
TRANSFORMER LET-THRU SHORT CIRCUIT CURRENT (INFINITE BUS)	2,604 A
LENGTH TO FAULT	110 FT
SERVICE CONDUCTOR SIZE	1/0 AWG AL MAXIMUM
SERVICE CONDUIT	RMC
CALCULATED AVAILABLE FAULT CURRENT AT LC "B"	2,226 A
DATE CALCULATED	11/01/2022

VOLTAGE DROP - TRANSFORMER TO RRFB CNTL CAB							
120V, 1-PH, 2W, POWER FACTOR = 0.9, 1 COPPER CONDUCTOR IN NON-MAG RACEWAY.							
CKT #	SEGMENT	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	LOAD (VA)	TOTAL (AMPS)	SEG. DROP (%VD)	CUMULATIVE DROP (%VD)
BA-9/11	7.5 kVA XFMR TO RRFB CNTL	#8	< 100	1,920 MAX.	16.0 MAX.	< 1.84	< 1.84

GENERAL NOTES:

- A. INSTALL A NEW 20A, 2P, 10 KAIC-RATED THERMAL-MAGNETIC CIRCUIT BREAKER IN LOCATION 9/11 TO PROVIDE PRIMARY -ONLY PORTECTION OF THE NEW 7.5 kVA TRANSFORMER.

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LOAD CENTER SUMMARY TABLES



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	Q1	Q1

GENERAL SITE INFORMATION

1. SITE FUNCTION: ROAD
2. SEE SHEET A1 FOR GENERAL PROJECT AREA MAP. SEE SHEETS A3-A10 FOR VICINITY MAPS. PROJECT SITES LOCATED IN USGS QUADS D-1, D-2 AND C-1.

ENVIRONMENTAL INFORMATION

1. RECEIVING WATER BODIES: CHENA RIVER, NOYES SLOUGH, FAIRBANKS MS4
2. IMPAIRED WATER BODIES: NOYES SLOUGH
3. TOTAL MAXIMUM DAILY LOAD (TMDL) OF ZERO FOR DEBRIS.
4. THREATENED AND ENDANGERED SPECIES: NONE.
5. HISTORIC & CULTURAL RESOURCE PRESENCE: NONE.
6. FISH & WILDLIFE ESSENTIAL HABITAT: NONE.
7. WETLANDS: NONE WITHIN PROJECT FOOTPRINT.
8. CONTACT THE PROJECT ENGINEER WITH QUESTIONS/CONCERNS REGARDING ENVIRONMENTAL ISSUES OR PERMIT INFORMATION.

ESCP NOTES:

GENERAL:

1. THIS PROJECT HAS 4 LOCATIONS, EACH MORE THAN ¼ MILE APART. FOR THE PURPOSES OF THE CONSTRUCTION GENERAL PERMIT THIS PROJECT IS CONSIDERED A MAINTENANCE PROJECT. THE LOCATIONS ARE MORE THAN ¼ MILE APART. IT WILL NOT BE REQUIRED TO DEVELOP A SWPPP OR FILE AN NOI. EVEN IF THESE LOCATIONS DO NOT NEED CGP COVERAGE, THE PROJECT WILL COMPLY WITH THE CLEAN WATER ACT AND PROTECT WATER QUALITY.
2. TEMPORARY BEST MANAGEMENT PRACTICES (BMPS) THAT ARE REQUIRED WILL BE SUBSIDIARY TO 658.0001.0000 FOR PROJECTS NOT REQUIRING CGP COVERAGE.
3. MAINTAIN BMPS ON A REGULAR BASIS INCLUDING, BUT NOT LIMITED TO REMOVAL AND DISPOSAL OF SEDIMENT AND REPLACING DAMAGED BMPS OR AS DIRECTED BY THE ENGINEER.

CATCHBASINS AND CULVERTS:

4. PROVIDE TEMPORARY INLET AND OUTLET PROTECTION FOR PROPOSED CULVERTS IN THE AREA OF DISTURBANCE PRIOR TO MAKING OPERATIONAL OR BEGINNING EARTH DISTURBING ACTIVITIES.
5. PERMANENT CULVERT INLET AND OUTLET PROTECTION IS ESTABLISHED VEGETATION.

DITCH PROTECTION AND CONCENTRATED FLOWS:

6. DURING CONSTRUCTION, PROTECT DITCHES TO LIMIT RELEASE OF SEDIMENT. PROVIDE TEMPORARY DITCH PROTECTION IN THE FORM OF VELOCITY CONTROLS OR TEMPORARY NON-ERODIBLE LINING.
7. EXPOSED MATERIAL OF NEW DITCHES CAPABLE OF SUPPORTING VEGETATION SHALL BE SEEDED FOR FINAL STABILIZATION.
8. WHEN POSSIBLE, AVOID CONDITIONS WHICH PROMOTE CONCENTRATED FLOWS. OTHERWISE, INSTALL VELOCITY CONTROL BMPS (I.E. WATTLE CHECK DAMS OR ROCK CHECK DAMS).

PERIMETER CONTROL:

9. VEGETATIVE BUFFER IS THE PREFERRED PERIMETER PROTECTION FOR THIS PROJECT. THERE ARE NO WETLANDS IN THE PROJECT AREA.

HAULING:

10. ENSURE LOADS ARE STABLE OR COVERED SO THAT NO MATERIAL ESCAPEMENT OCCURS DURING HAULING ACTIVITIES.
11. CONSTRUCTION ENTRANCE/EXIT TRACK OUT CAN STILL BE CONSIDERED A DISCHARGE.

STOCKPILE PROTECTION:

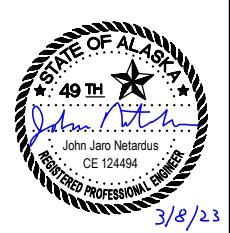
12. ALL ERODIBLE STOCKPILES MUST BE PROTECTED BY EROSION AND SEDIMENT CONTROL DEVICES.
13. EROSION AND SEDIMENT CONTROL BMPS MAY HAVE TO BE REMOVED AND RE-INSTALLED EACH SHIFT.

TIMING OF BMP INSTALLATION:

14. INSTALL EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO THE START OF CONSTRUCTION, AS NECESSARY TO MINIMIZE EROSION FROM DISTURBED SURFACES AND CAPTURE SEDIMENT ONSITE.
15. INSTALL TEMPORARY PERIMETER CONTROL BMP'S BEFORE ANY UP-GRADE SOIL DISTURBANCE OCCURS.

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200
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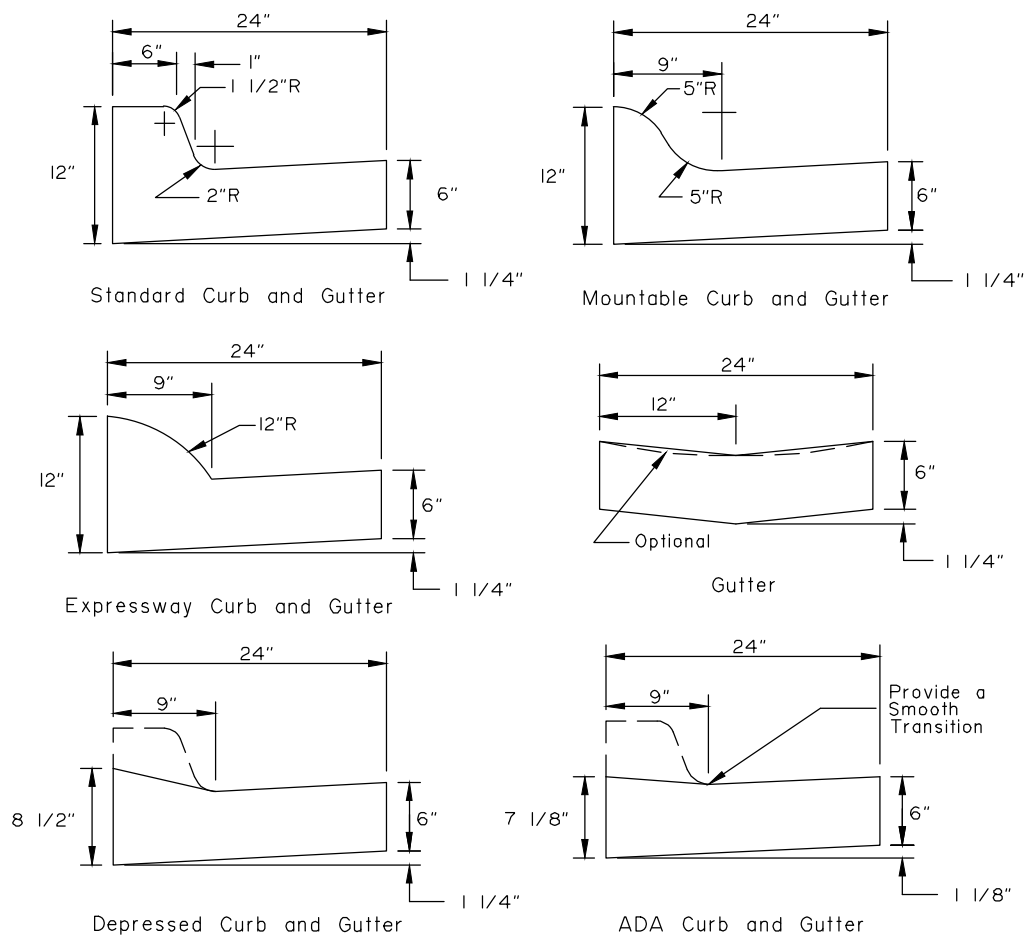
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	PENDING/NFHWY00633	2023	T1	T1

TEMPORARY TRAFFIC CONTROL NOTES:

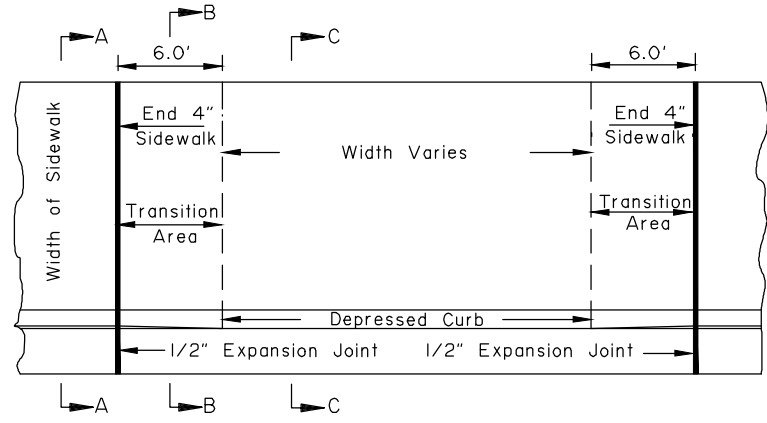
GENERAL:

1. ALL TRAFFIC CONTROL AND MAINTENANCE REQUIRED FOR WORK ON THIS PROJECT WILL BE PAID FOR UNDER PAY ITEMS 643.0002.0000 AND 643.0025.0000 AS APPROPRIATE.
2. ALL TEMPORARY TRAFFIC CONTROL (TTC) PLANS MUST BE IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL (ATM) AND AN APPROVED TRAFFIC CONTROL PLAN SUBMITTED TO THE ENGINEER PRIOR TO IMPLEMENTATION.
3. TEMPORARY SIGNS MUST BE IN ACCORDANCE WITH THE ATM AND ALASKA SIGN DESIGN SPECIFICATIONS. ALL SIGNS TO BE MOUNTED TO A HEIGHT OF 7' FROM THE BOTTOM OF THE SIGN PANEL TO THE TOP OF PAVEMENT.
4. THE SPACING BETWEEN CHANNELIZING DEVICES (WHEN USED) MUST NOT EXCEED A DISTANCE IN FEET EQUAL TO 1.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH WHEN USED FOR TANGENT CHANNELIZATION.
5. USE WARNING LIGHTS ON CHANNELIZING DEVICES DURING NIGHT WORK AS DEFINED IN SECTION 643-1.02. USE TYPE "C" STEADY BURN WARNING LIGHTS ON ALL TAPER AND TANGENT CHANNELIZATION DEVICES.
6. MAINTAIN EXISTING REGULATORY SIGNS WITHIN THE WORK ZONE. EXISTING SPEED LIMIT SIGNS MUST BE COVERED OR REMOVED WHERE APPROVED SPEED REDUCTIONS ARE IN EFFECT.
7. SPEED LIMIT REDUCTIONS MUST BE IN ACCORDANCE WITH ALASKA DOT&PF POLICY AND PROCEDURE NUMBER 05.05.20 IF USED.
8. SEE SECTION 643 FOR ADDITIONAL TTC INFORMATION.
9. PEDESTRIAN TRAFFIC ON COLLEGE ROAD MUST BE ACCOMMODATED FOR ACCESS TO THE FARMERS MARKET.

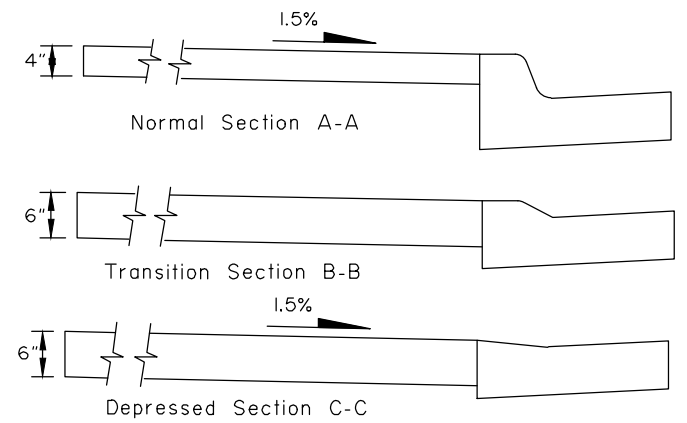
TRAFFIC CONTROL – TCP
NOTES



CURB and GUTTER DETAILS

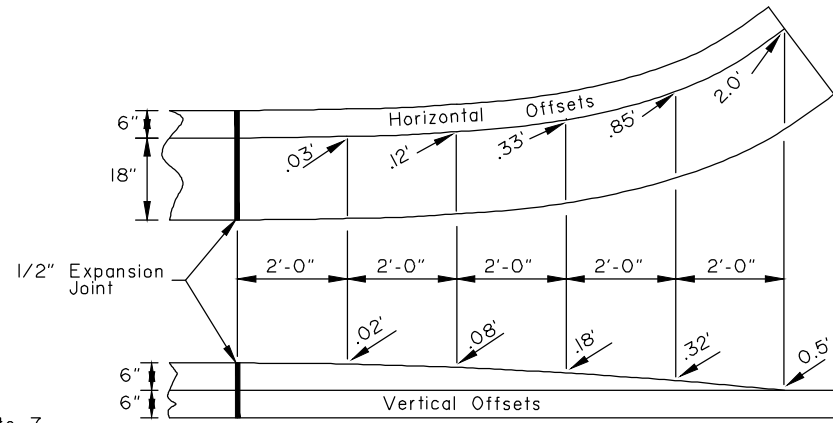
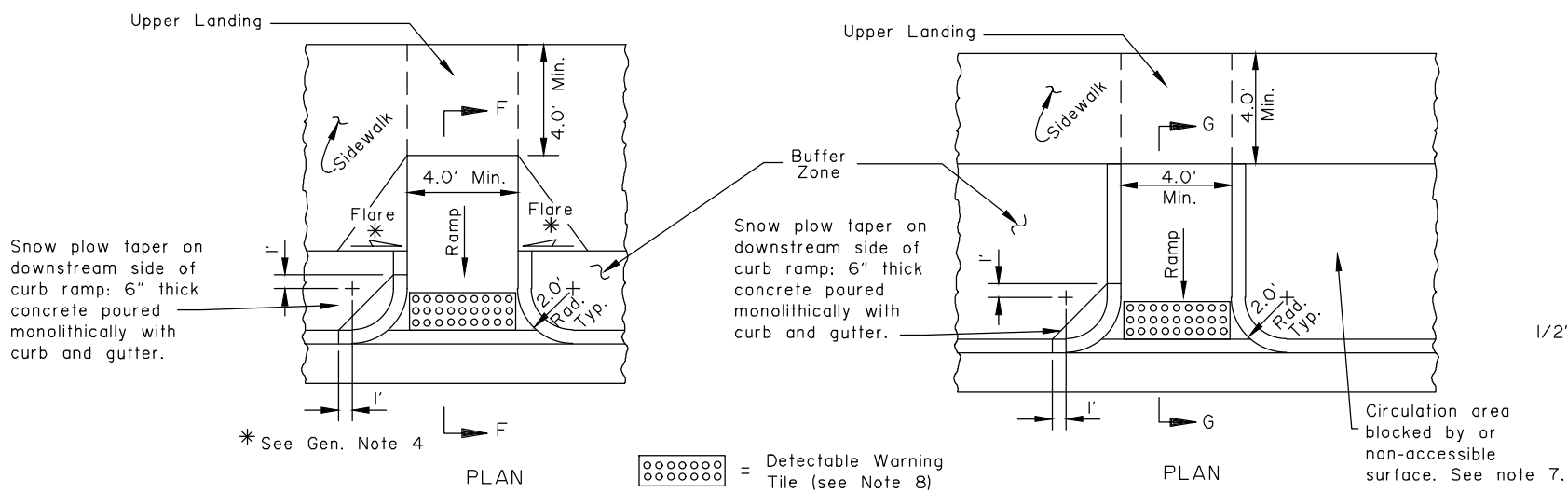


DRIVEWAY CURB CUT DETAILS

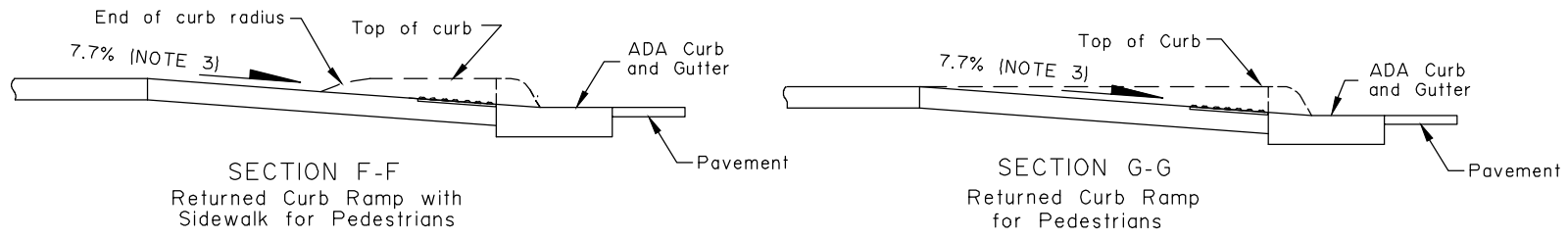


CONSTRUCTION NOTES:

1. Use the type of curb and gutter shown on the plans.
2. Construct ramp runs and landings of concrete, regardless of whether the sidewalk is asphalt or concrete.
3. Construct ramp slopes at a 7.7% nominal grade, or flatter. Ramp slopes may be increased to a maximum of 8.3% when site conditions warrant it. Ramp lengths should be increased to keep grades under the 8.3% maximum, but are not required to exceed 15.0 feet. The resulting ramp grade at a 15.0 foot ramp length is acceptable even if it exceeds 8.3%.
4. Construct flare slopes at 8.3% (measured parallel to the curb line) or flatter, sidewalk cross slopes at 1.5% nominal (1.0% min. and 2.0% max), and ADA Curb and Gutter gutter pan slopes at 4.7% nominal. Construct grade breaks perpendicular to ramp runs.
5. Do not construct flare slopes steeper than 10.0%, sidewalk cross slopes steeper than 2.0% and ADA Curb and Gutter gutter pan slopes steeper than 5.0%. These are the steepest slopes allowed under the 2006 ADA Standards for Transportation Facilities.
6. Provide a coarse broomed finish on ramp runs perpendicular to the ramp slope.
7. When approved by the Engineer, curb returns may be replaced with flares at locations where access to the side of a ramp run is free of poles, utility boxes, other obstructions, or non-accessible surfaces such as a dirt planter strips. See Standard Plan I-22 for flare details.
8. Install 24" wide detectable warning tiles for the full width of the ramp. Provide tiles with truncated domes meeting Section 705.1 of the 2006 ADA Standards for Transportation Facilities. Align truncated dome pattern in the predominant direction of wheelchair travel to permit wheels to roll between domes.
9. Maximum cross slope on upper landings, measured in any direction, is 2.0%. Maximum cross slope on ramps is 2.0% measured perpendicular to the ramp run.



CURB and GUTTER TERMINATION TRANSITIONS



State of Alaska DOT&PF
ALASKA STANDARD PLAN

CURB CUT
CURB & GUTTER
AND CURB RAMP DETAILS

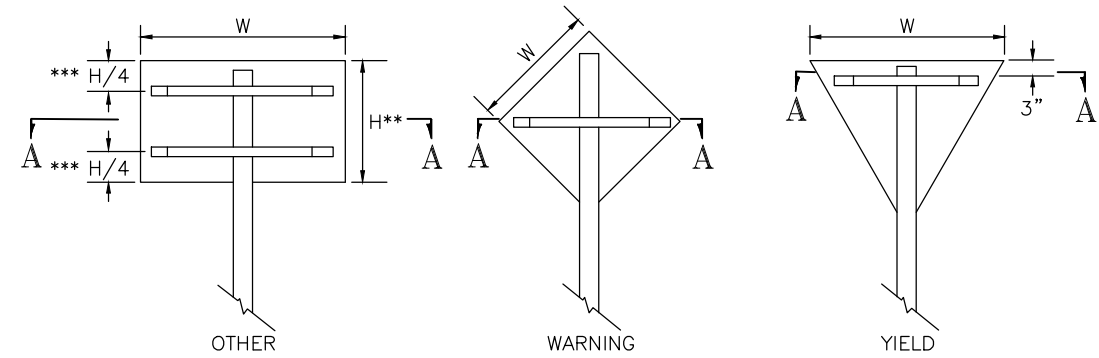
Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030

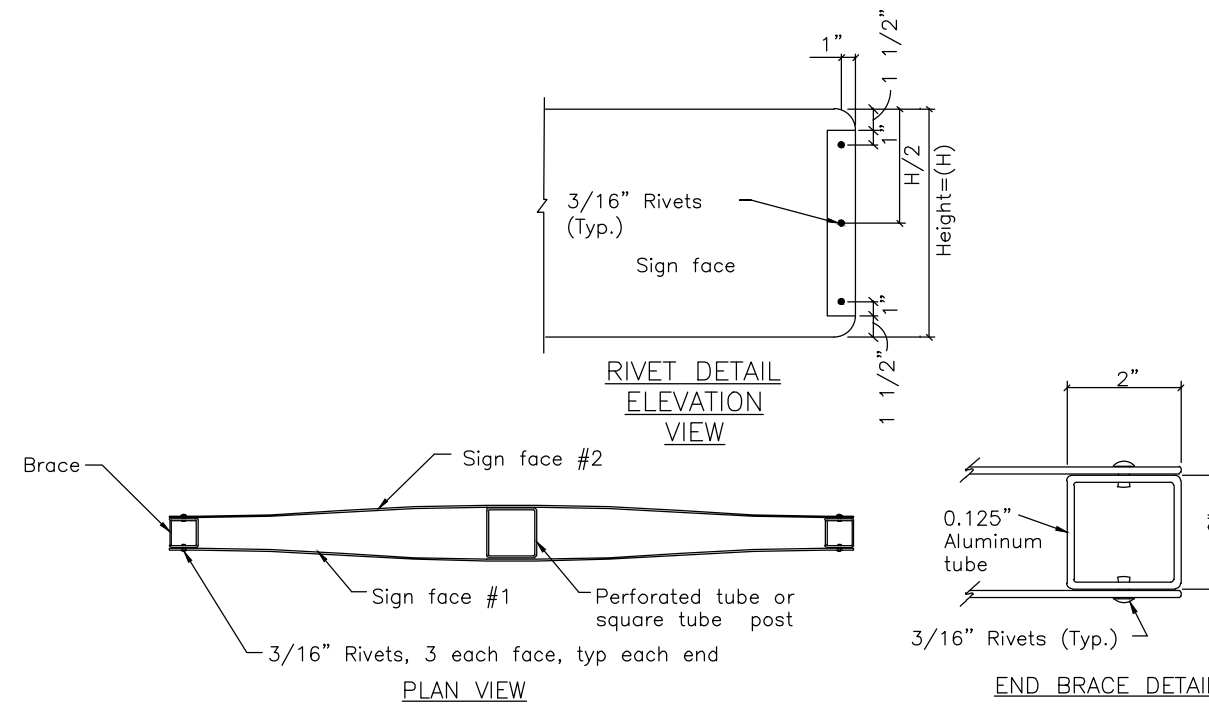
Note: Drawing not to scale



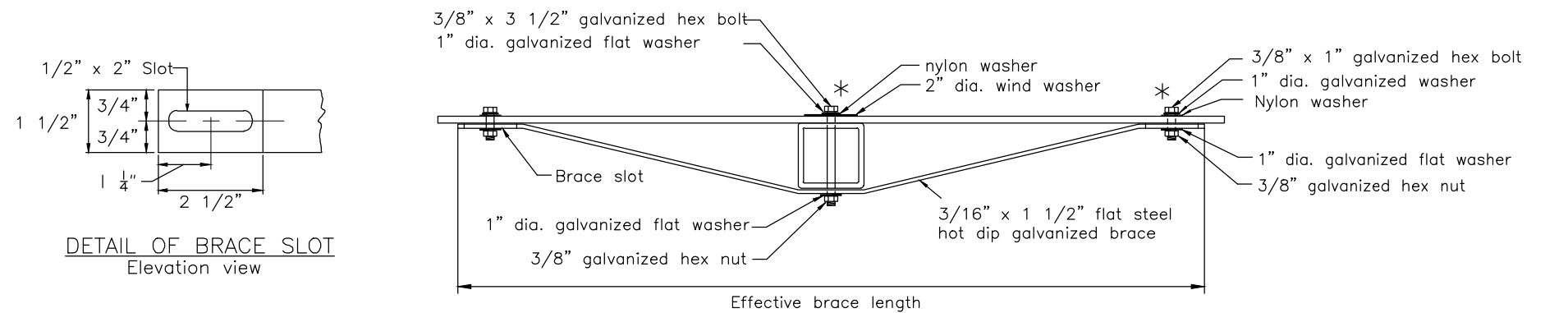
*** Use one brace when $H \leq 18"$
 Use two braces when $18" < H < 48"$
 Use three braces when $H \geq 48"$

** Position of brace may be varied to match
 Pre-drilled mounting holes in panel

SIGN BRACING PLACEMENT



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS



* Adjust location of bracing so that bolts and washers will miss the sign legend

TUBE POST SIGN BRACING SECTION A-A
Plan view

Sign Width(W)	Effective Brace Length		
	Warning	Yield	Other
30"	36"	24"	24"
36"	42"	30"	30"
42"	48"	-	36"
48"	Two posts	36"	42"

< 30" No bracing required and use square tube

Note: Drawing not to scale

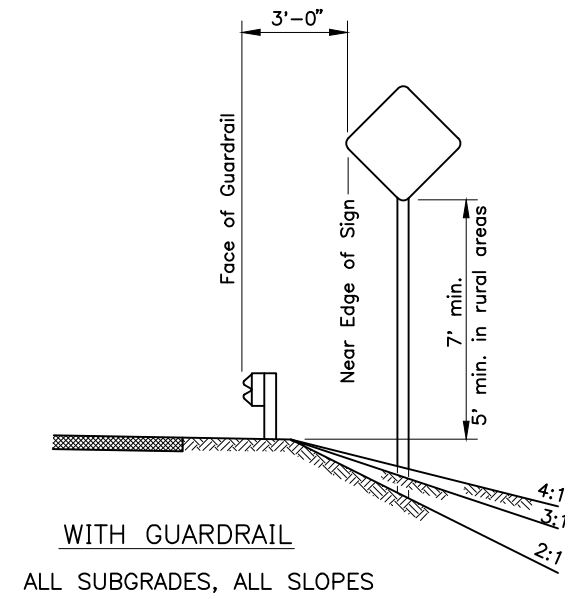
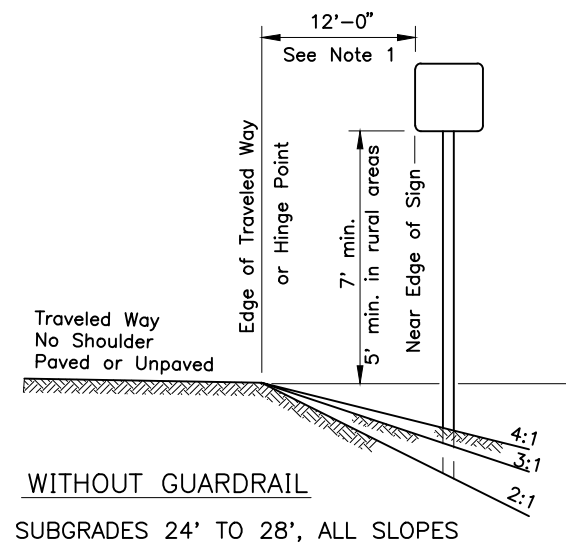
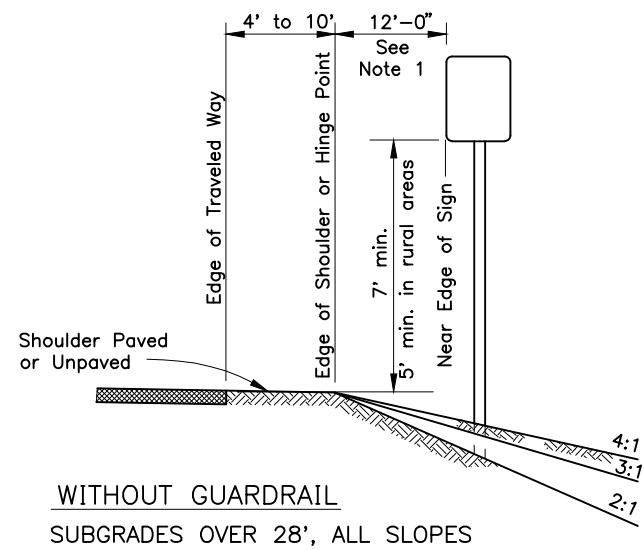
State of Alaska DOT&PF
 ALASKA STANDARD PLAN
**BRACING FOR SIGNS
 MOUNTED ON SINGLE POST**

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
 Carolyn Morehouse, P.E.
 Chief Engineer

Adoption Date: 7/17/2020

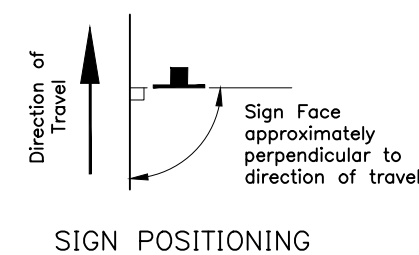
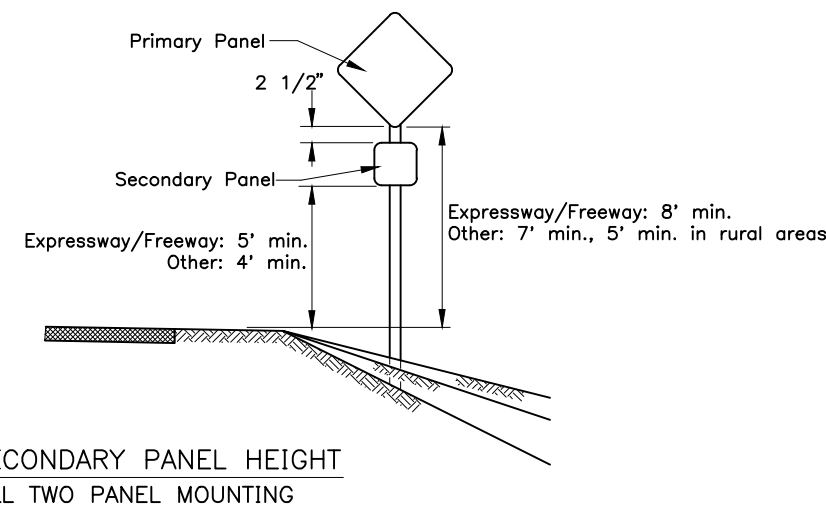
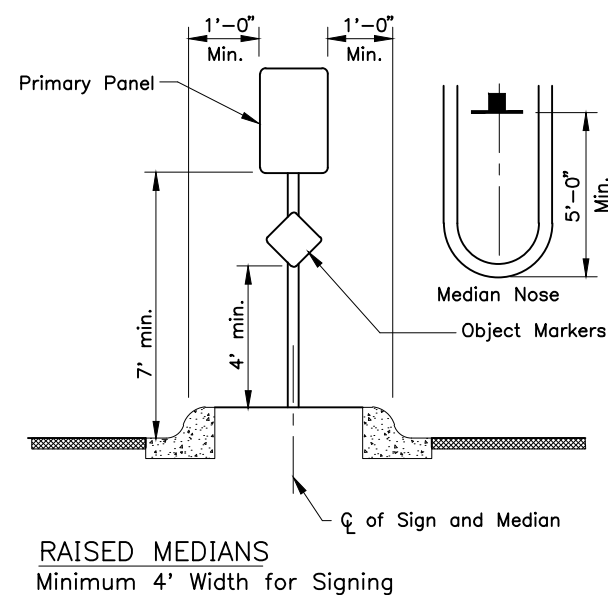
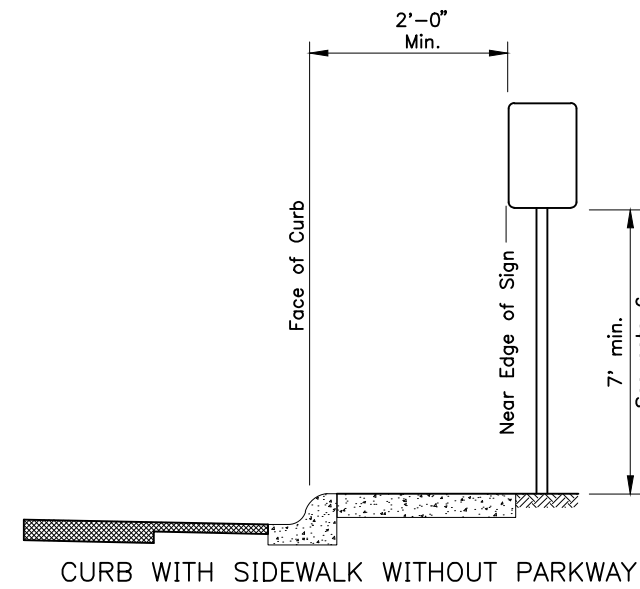
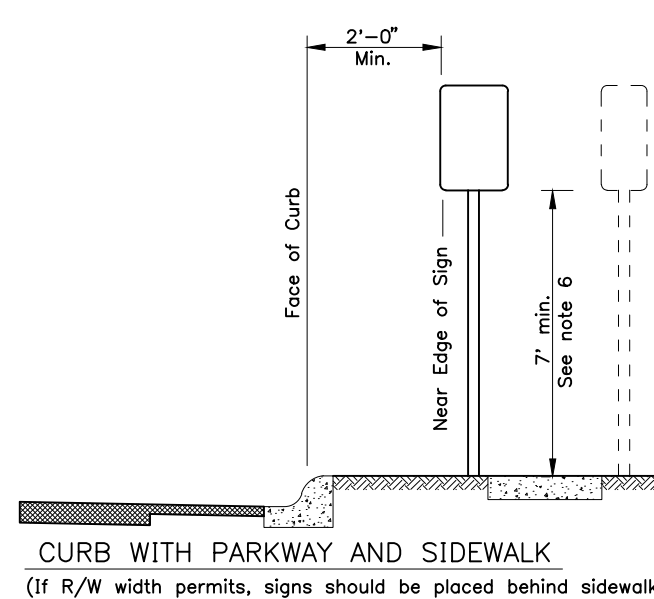
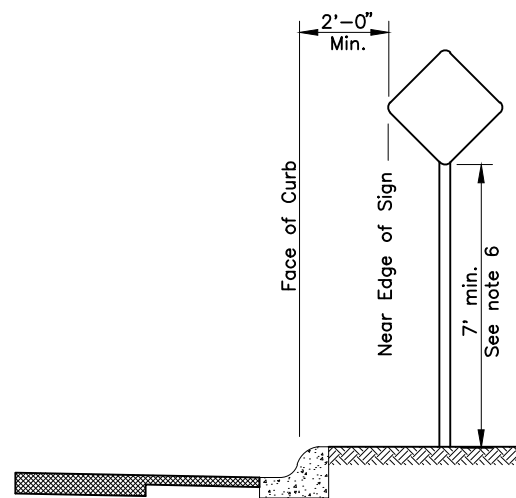
Last Code and Stds. Review
 By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030



GENERAL NOTES

1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6' where shoulder width is 6' or greater.
2. Add 6" to mounting height on unpaved roads.
3. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
4. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
5. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.
6. Minimum mounting height is 7'-0" where parking or pedestrian movements are likely to occur, or where signs extend over sidewalks.
7. For construction signs in rural areas, mounting height shall be 7' minimum.



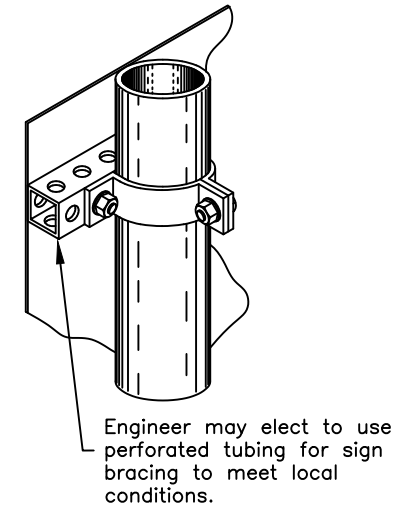
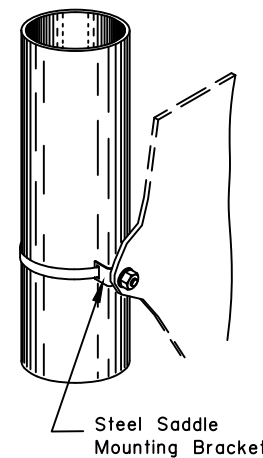
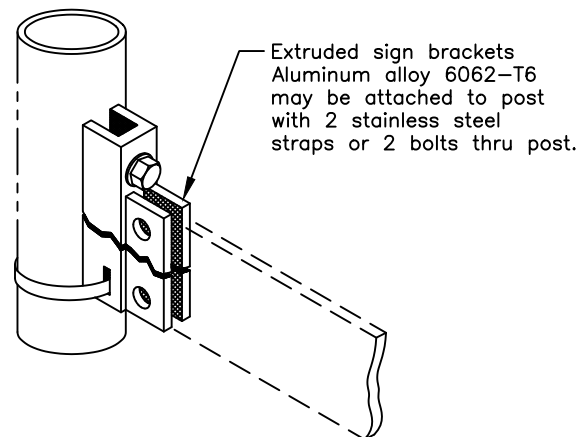
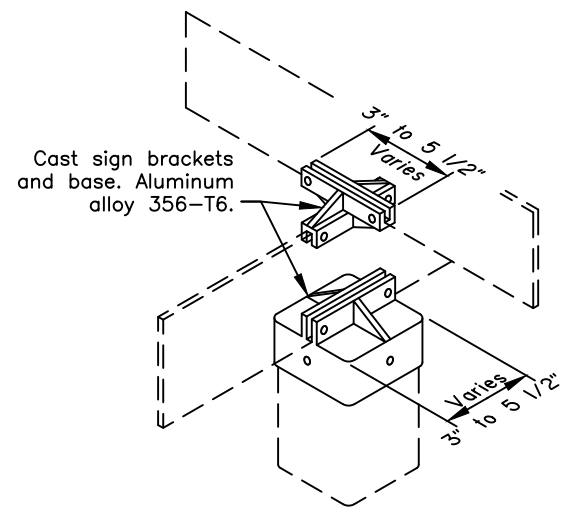
State of Alaska DOT&PF
ALASKA STANDARD PLAN

POST MOUNTED SIGN
OFFSET AND HEIGHT

Adopted as an Alaska Standard Plan by *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

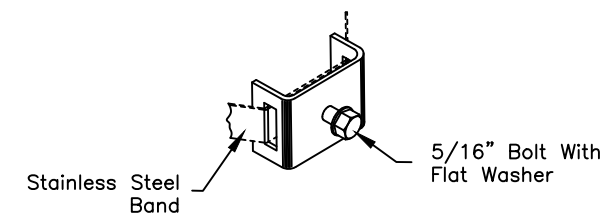
Adoption Date: 7/17/2020

Last Code and Stds. Review
By: KLK Date: 7/8/2020
Next Code and Standards Review Date: 7/8/2030

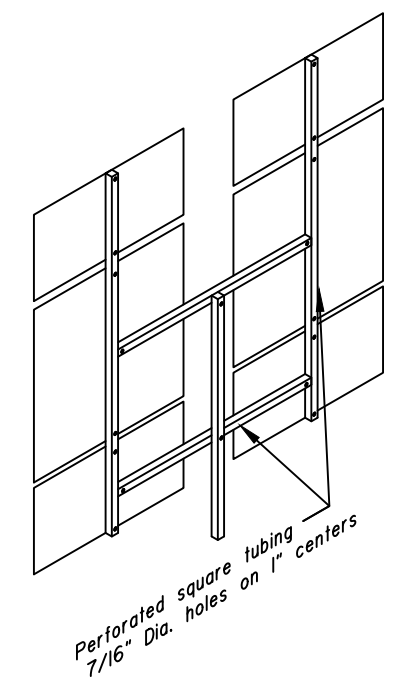
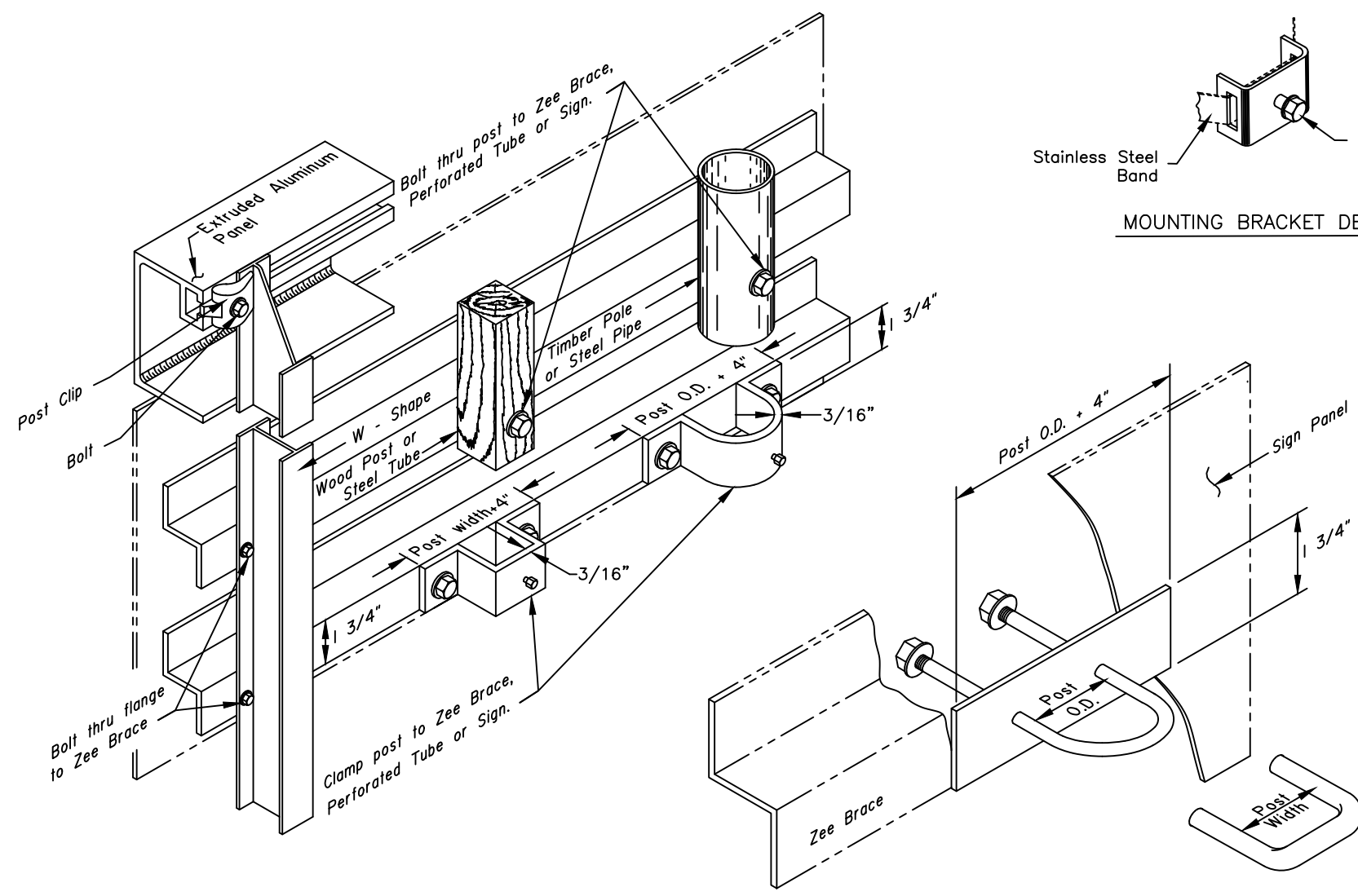


CONSTRUCTION NOTES

1. Details shown indicate general design only. Dimensions and design may vary among manufacturers.
2. Install weather tight caps on all pipe and tube post (except perforated tubing).
3. Protect driven sign posts with drive caps during installation.
4. Bolt braces to posts at each point where they cross posts.
5. Install signs with top of post, mounting brackets, etc. with a minimum of 3" below top of sign.
6. Paint all sign mounting fasteners on sign face a color closely matching the sign face.
7. Attach all signs, zeos and braces mounted to the posts with 5/16" bolts, nuts and washers.
8. Furnish all aluminum nuts, bolts and washers with anodized finish.



MOUNTING BRACKET DETAIL



FASTENER SPECIFICATION TABLE				
(ALL REFERENCES ARE TO ASTM)				
FASTENERS		ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	MACHINE	F468 2024-T4	A307	F593
	CARRIAGE "U"	F468 2024-T4	A307	A276 TYPE 304
NUTS	REGULAR	F467 6061-T6	A563	F594
	LOCKING	F467 2017-T4		
WASHERS		F468 2024-T4	F844	A480
POST CLIP		A356-T6	N/A	N/A

State of Alaska DOT&PF
ALASKA STANDARD PLAN

SIGN TO SIGN POST CONNECTION

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 07/30/2021

Last Code and Stds. Review
By: LRG Date: 07/30/2021

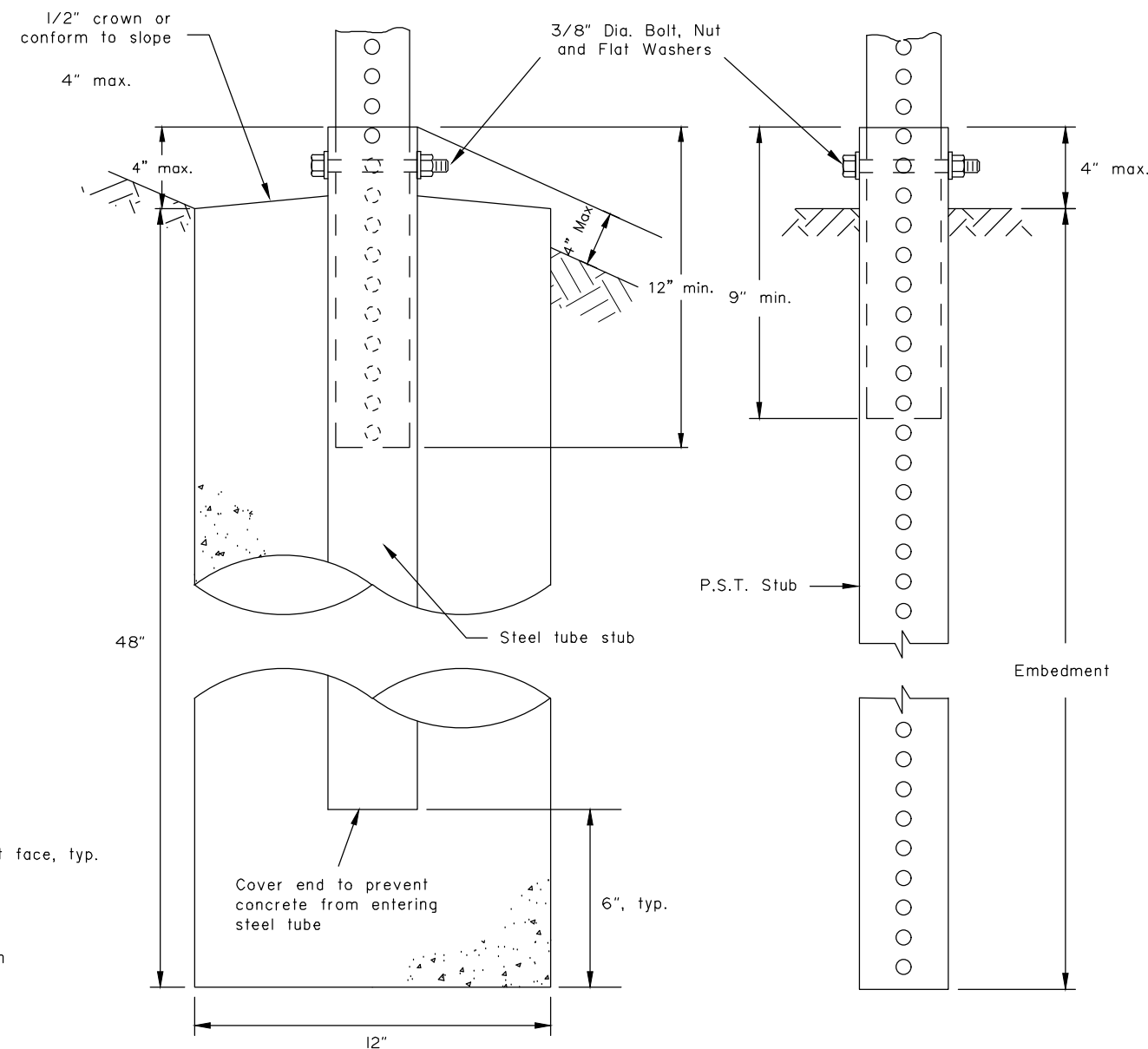
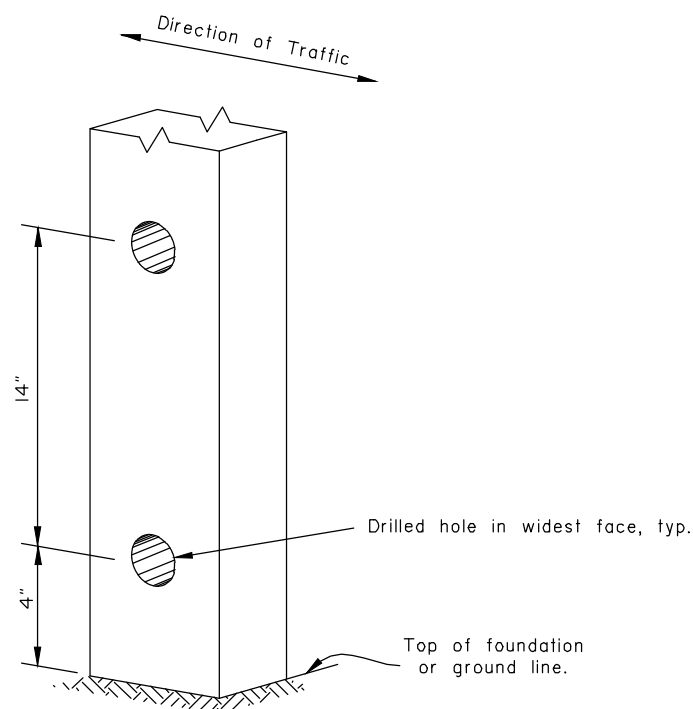
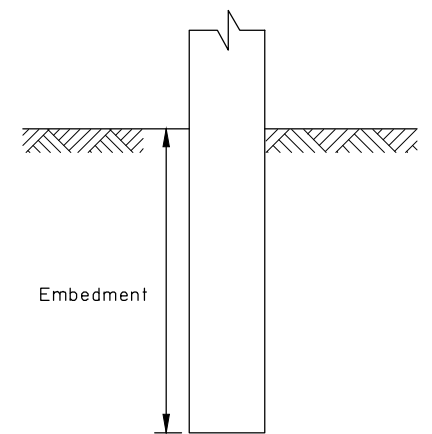
Next Code and Standards Review date: 07/30/2031

GENERAL NOTES:

1. Sign shall be placed symmetrically around posts and refer to Standard Plan S-00 for sign framing details.
2. See plans for type of post, size and embedment type.
3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
4. Concrete shall be class B.
5. Do not use the supports on this drawing for multiple support signs if supports are separated by more than 7 feet.
6. Treat all field cuts and field drilled holes in wood posts in accordance with Section 730-2.04 of the Standard Specifications.

SIGN POST SPACING NOTES:

1. Install sign support in accordance with the table below, unless otherwise required by plans or specifications.
2. Exceptions:
 - a. Use one post for all E5-1 gore signs, regardless of width.
 - b. Use one 2.5" P.S.T. for all STOP signs, with or without street name signs.
3. Supports placed within 7' of each other must be acceptable for that use. See tables below for the sizes of wood posts and P.S.T.s that may be used within 7'. See Manufacturer's documentation for breakaway couplings and tubes that may be used within 7'.
4. See Standard Plan S-31 for frangible couplings, hinges, and foundations for tube and W-shape sign supports.



**SLEEVE TYPE
CONCRETE FOUNDATION**

**SLEEVE TYPE*
SOIL EMBEDMENT**

WOOD SIGN POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NO. OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	4'-1"	2
4"x6"	1 1/2"	5'-3"	2
6"x6"	1 1/2"	4'-9"	1
6"x8"	3"	4'-9"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS

PERFORATED STEEL TUBES (P.S.T.)		
POST SIZE	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	4'-8"	2
1 3/4" x 1 3/4"	4'-6"	2
2" x 2"	4'-3"	2
2 1/4" x 2 1/4"	5'-0"	1
2 1/2" x 2 1/2"	4'-6"	1

* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

PERFORATED STEEL TUBE (PST) POSTS

TUBE SIGN POST SPACING								
Sign Width (feet)	No. of Posts	Distance Between Posts	Sign Overhang	Post Type				Notes
				P.S.T.	Wood	Steel Tube	W-Shape	
0.5 to 4.0	1	-	0.5W	X	X	X		See Note 2.
4.5 to 10.0	2	0.6W	0.2W	X	X	X		See Note 3.
10.5 to 11.0	2	6	Varies	X	X	X		See Note 3.
11.5 to 13.0	2	8	Varies				X	
13.5 to 20.0	2	0.6W	0.2W				X	
20.5 to 22.5	3	8	Varies				X	
23.0 to 29.5	3	0.35W	0.15W				X	
30.0 to 31.5	4	8	Varies				X	
32.0 to 40.0	4	0.25W	0.125W				X	

TUBE SIGN POST SPACING

Note: Drawing not to scale

**State of Alaska DOT&PF
ALASKA STANDARD PLAN
LIGHT SIGN STRUCTURE
POST EMBEDMENT**

Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

Last Code and Stds. Review
By: WTH Date: 7/8/2020

Next Code and Standards Review date: 7/8/2030