

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF PARKS
AND
OUTDOOR RECREATION

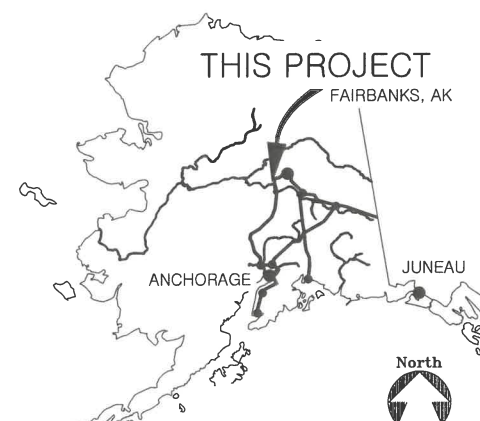
CHENA PUMP SRS
FACILITY IMPROVEMENTS

PROJECT NO.
71882-1

In Cooperation with the National Park Service and
the Land and Water Conservation Fund Grant Program

Vicinity Map

FAIRBANKS MERIDIAN, TOWNSHIP 1 SOUTH, RANGE 2 WEST, SECTION 32
LATITUDE: 64°47'41.66"N LONGITUDE: 147°57'11.71"W



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The following Division of Parks & Outdoor Rec. standard drawings apply to this project: S-10D and S-11D
The following T2 SYSTEMS CANADA INC. standard drawings apply to this project: LUKE II PEDESTAL MOUNTING
The following D.O.T.(Highways) standard drawings apply to this project: I-30.10, S-00.12, S-05.02, S-20.11, and S-30.05

Plans developed by:

STATE OF ALASKA
Department of Natural Resources
Division of Parks & Outdoor Recreation
550 W 7th Ave. Suite 1340, Anchorage, AK 99501

Recommended:

R. Miranda
Rys Miranda, P.E.
Chief, Design and Construction

6/24/2025
Date

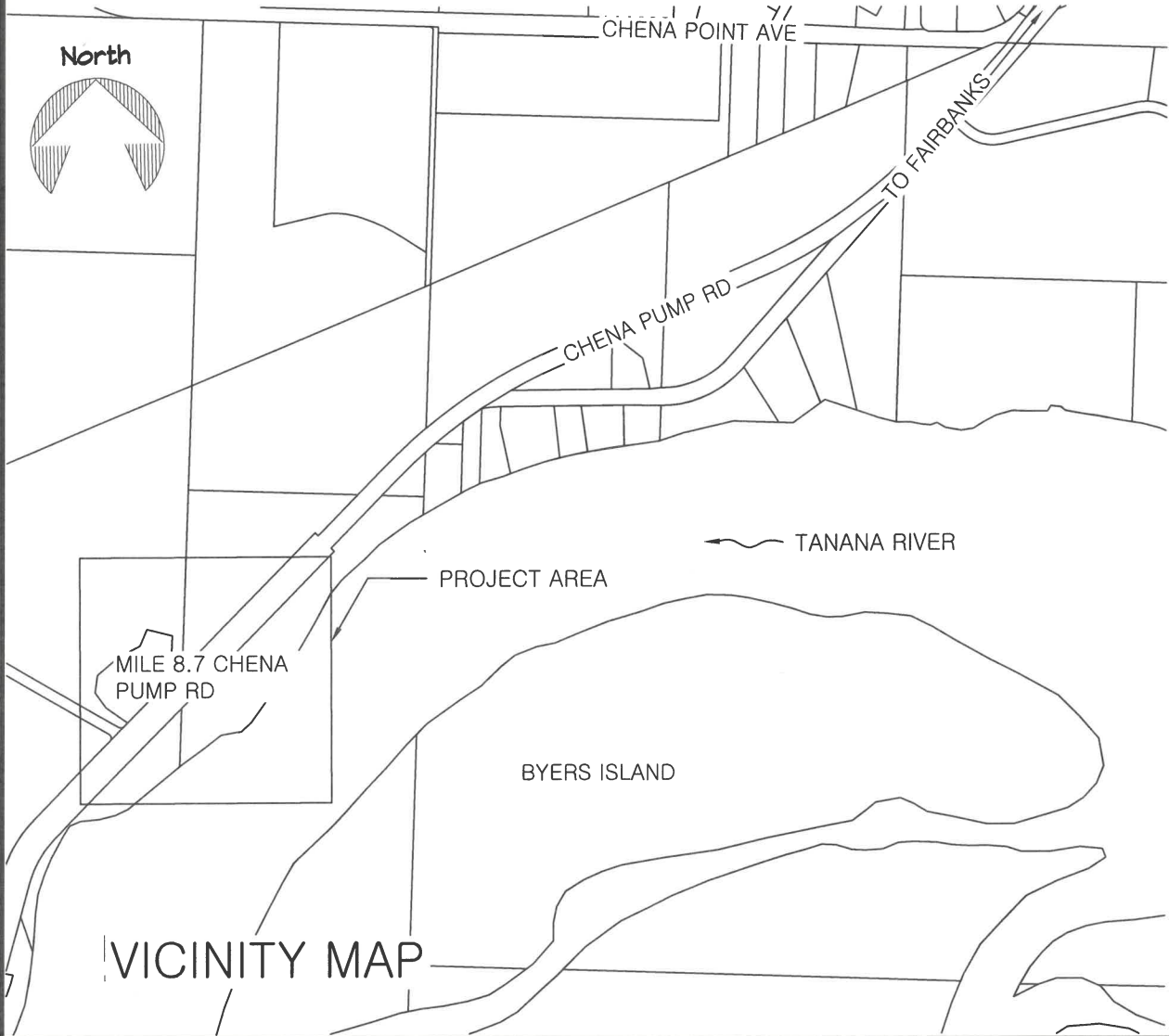
Approved:

M. Vedeckin
Ricky Gease
Director, Alaska State Parks

6/24/25
Date

ESTIMATE OF QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
202.0001.0000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	ALL REQ'D
203.0022.0000	UNCLASSIFIED EXCAVATION	CYVM	810
301.0001.00D1	AGGREGATE BASE COURSE, GRADING D-1	TON	880
401.0001.002B	HOT MIX ASPHALT, TYPE II, CLASS B	TON	800
615.0001.0000	STANDARD SIGN	S.F.	42
622.2004.0000	BEARPROOF GARBAGE CAN	EACH	1
622.2015.000D	INTERPRETIVE SIGN, TYPE D	EACH	1
622.2020.0000	ORIENTATION KIOSK	EACH	1
622.2021.0000	PICNIC SHELTER	EACH	2
622.2034.0000	REMOVE AND RELOCATE BARRIER ROCK	EACH	8
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D
641.0001.0000	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D
641.0002.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	C.S.	ALL REQ'D
641.0006.0000	WITHHOLDING	C.S.	ALL REQ'D
642.0001.0000	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D
642.0003.0000	THREE PERSON SURVEY PARTY	HOOR	5
643.0002.0000	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D
647.0001.0000	HYDRAULIC EXCAVATOR, 1 CY, 100 HP, MINIMUM	HOOR	5
670.0001.0000	PAINTED TRAFFIC MARKINGS	L.S.	ALL REQ'D

TABLE OF ESTIMATING FACTORS	
DESCRIPTION	ESTIMATING FACTOR
AGGREGATE BASE COURSE, GRADING D-1	148 LB/C.F.
HOT MIX ASPHALT, TYPE II: CLASS B	151 LB/C.F.



EXISTING	LEGEND	PROPOSED

ABBREVIATIONS	
APPRX.	CENTERLINE
C.S.	APPROXIMATE
C.Y.	CONTINGENT SUM
CYVM	CUBIC YARD
D&C	CUBIC YARD VEHICLE MEASURE
ELEV	DESIGN & CONSTRUCTION
EOG	ELEVATION
EOP	EDGE OF GRAVEL
EOW	EDGE OF PAVEMENT
EOV	EDGE OF WATER
EST.	EDGE OF VEGETATION
F.F.	ESTIMATE
IN.	FINISHED FLOOR
LB/LBS	INCH
L.F.	POUND/POUNDS
L.S.	LINEAR FEET
ME	LUMP SUM
NA	MATCH EXISTING
NO.	NOT APPLICABLE
OHW	NUMBER
PIP	ORDINARY HIGH WATER
PST	PROTECT IN PLACE
PT.	PERFORATED STEEL TUBE
QTY.	POINT
R&D	QUANTITY
REQ'D	REMOVE AND DISPOSE
RD	REQUIRED
R&D	ROAD
S.F.	REMOVE AND DISPOSE
SRS	SQUARE FEET
STA	STATE RECREATIONAL SITE
S.Y.	STATION
TYP.	SQUARE YARD
	TYPICAL

- NOTE:
1. THERE SHALL BE NO VEHICLE OR FOOT TRAFFIC WITHIN CULTURALLY SENSITIVE AREAS

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550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731



PREPARED: EEH
DRAWN: EEH
REVIEWED: RCS
DATE: 6/4/2025

SHEET

2

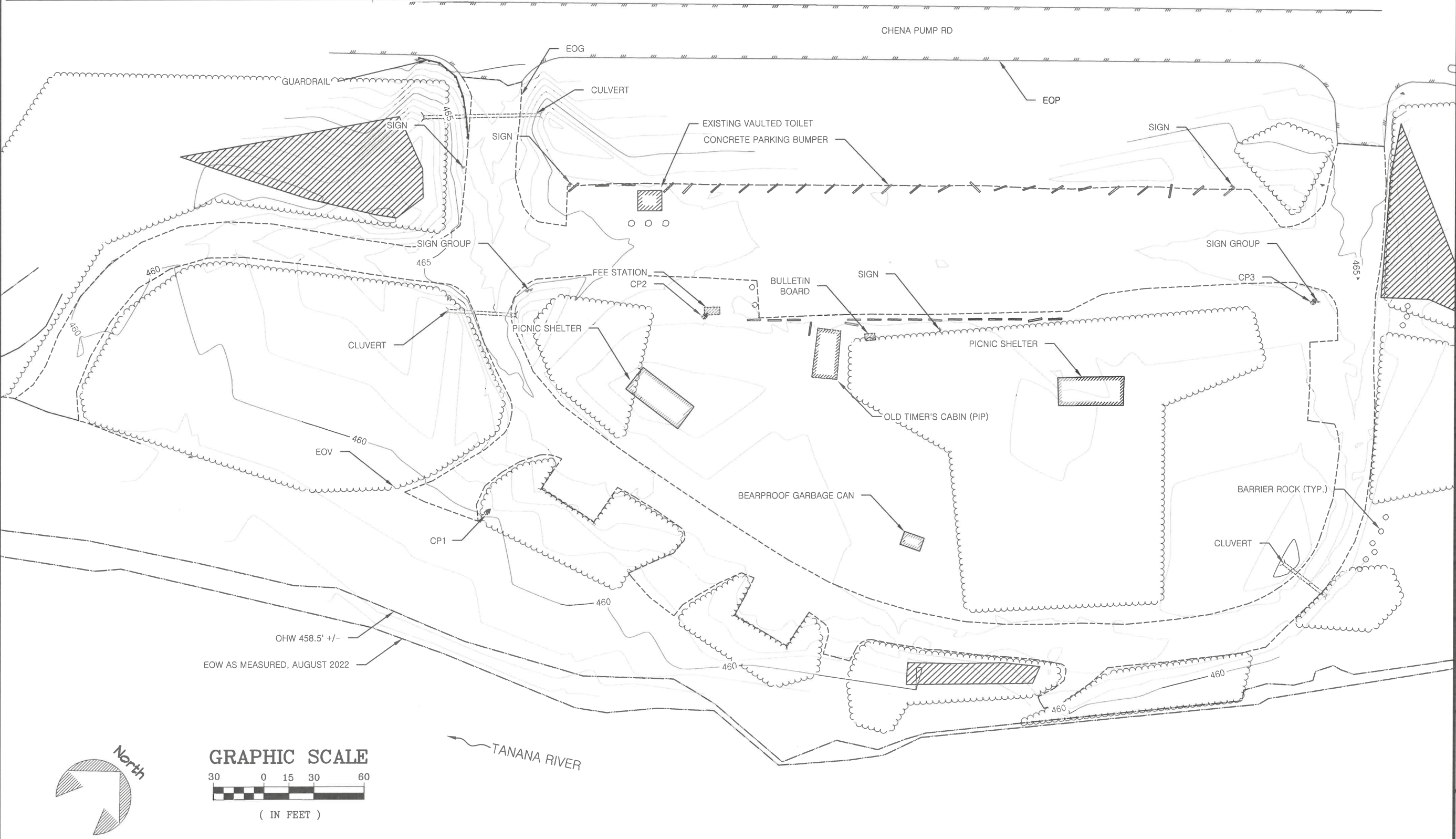
OF 16 SHEETS

CHENA PUMP SRS
FACILITY IMPROVEMENTS
No. 71882-1

ESTIMATE OF QUANTITIES TABLE, VICINITY
MAP, LEGEND AND ABBREVIATIONS

CONTROL POINT TABLE				
PT. NO.	ELEVATION	NORTHING	EASTING	DESCRIP.
CP1	460.68	3949630.47	13335853.89	5/8" X 18" REBAR WITH CAP
CP2	463.18	3949804.23	1335858.2900	5/8" X 18" REBAR WITH CAP
CP3	463.26	3950043.54	1336101.9800	5/8" X 18" REBAR WITH CAP

NOTE:
1. BASE MAP CREATED USING DATA COLLECTED BY DNR STAFF IN AUGUST 2022 AND OCTOBER 2023.



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CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

EXISTING CONDITIONS



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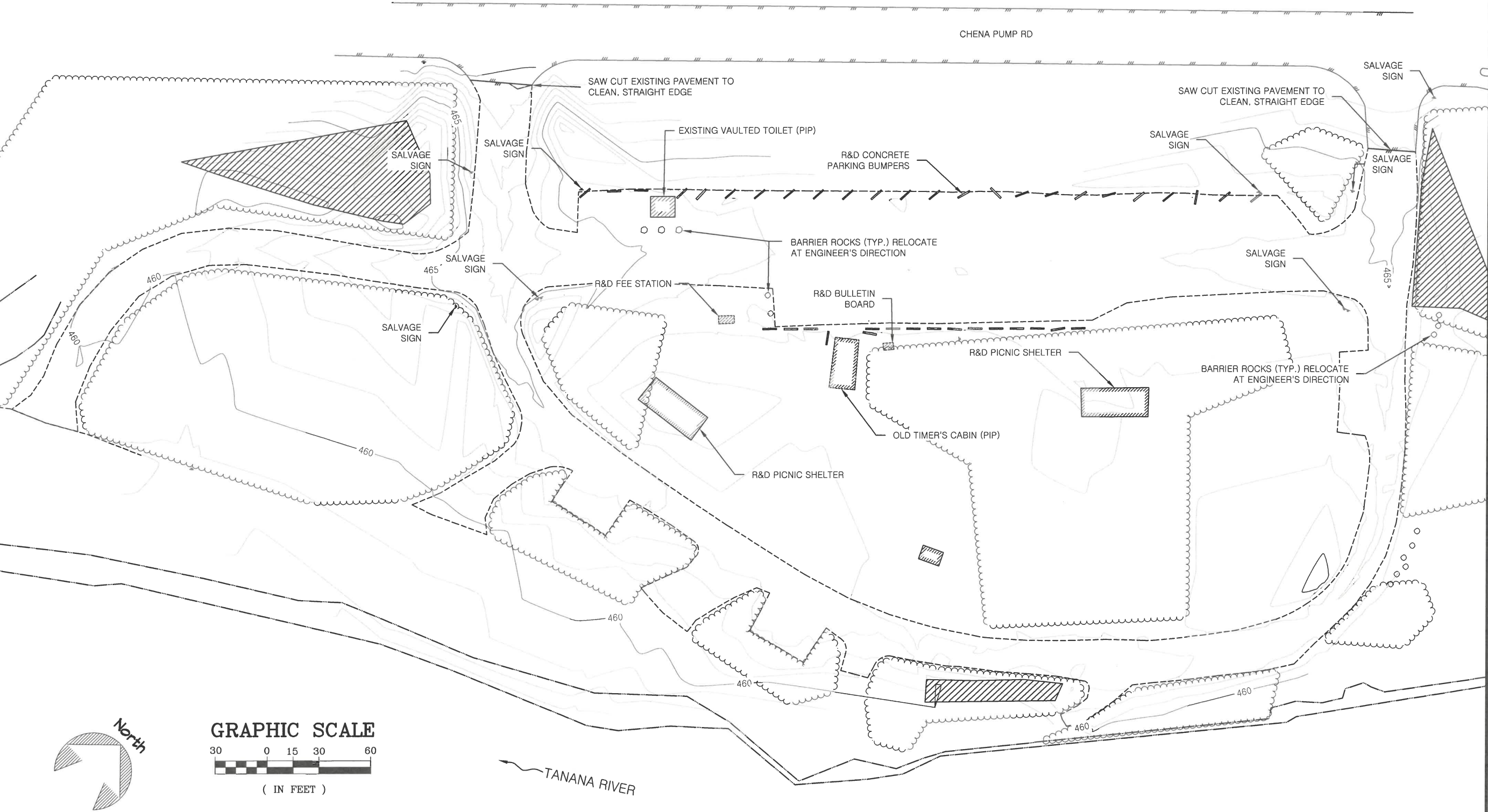
SHEET

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OF 16 SHEETS

REMOVAL OF STRUCTURES AND OBSTRUCTIONS				
DESCRIPTION	LEGEND	UNIT	QUANTITY	REMARKS
PICNIC SHELTER		EACH	2	REMOVE & DISPOSE
CONCRETE PARKING BUMPER		EACH	40	REMOVE & DISPOSE
SIGN POST AND ASSEMBLY		EACH	6	REMOVE & SALVAGE
BULLETIN BOARD		EACH	1	REMOVE & DISPOSE
FEE STATION		EACH	1	REMOVE & DISPOSE

- NOTES:
1. REUSE PICNIC TABLES AND TRASH CANS FROM EACH PICNIC SHELTER.
 2. SIGNS AND SIGNPOSTS ARE TO BE SALVAGED AND STAGED ON SITE AT THE ENGINEERS DIRECTION. SIGN BASES ARE TO BE REMOVED AND DISPOSED OF.



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OF 16 SHEETS

CHENA PUMP SRS
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DEMOLITION PLAN



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SITE PLAN

CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

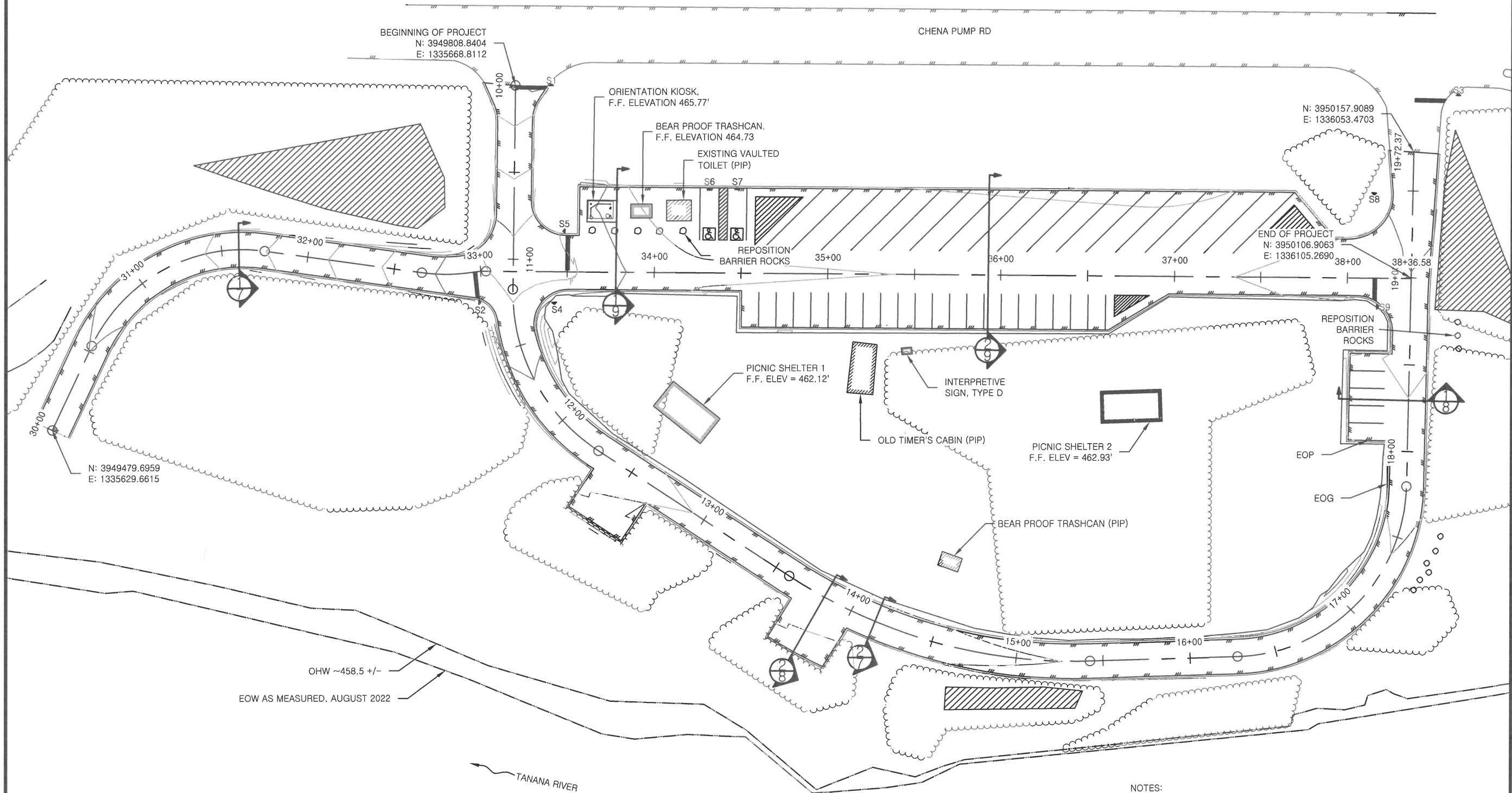


PREPARED: EEH
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REVIEWED: RCS
DATE: 6/16/2025

SHEET

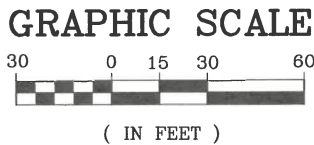
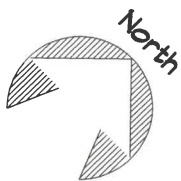
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OF 16 SHEETS



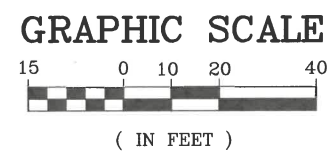
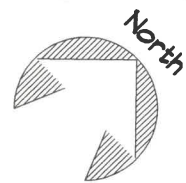
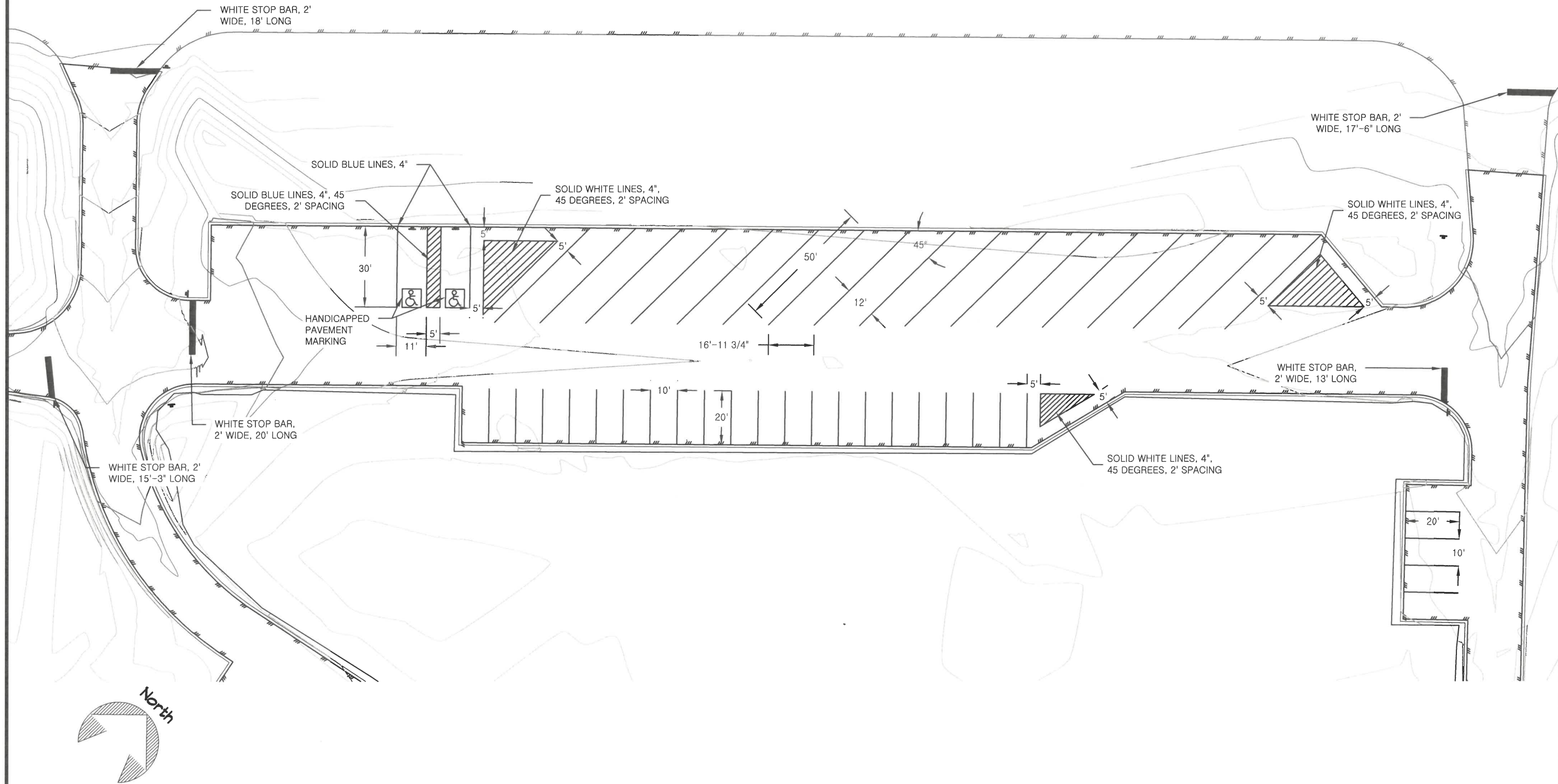
NOTES:

1. INTERPRETIVE SIGN, TYPE D FOUNDATION SHALL BE AS CLOSE TO THE LOCATION OF THE REMOVED BULLETIN BOARD'S FOUNDATION AS POSSIBLE.
2. AN ARCHEOLOGIST APPROVED BY THE ENGINEER MUST BE PRESENT DURING THE EXCAVATION OF THE PICNIC SHELTER AND INTERPRETIVE SIGN, TYPE D FOUNDATIONS.





- NOTES:
1. UNLESS OTHERWISE SPECIFIED, ALL PAINTED LINES ARE SOLID, WHITE, AND 4" WIDE.



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STRIPING PLAN

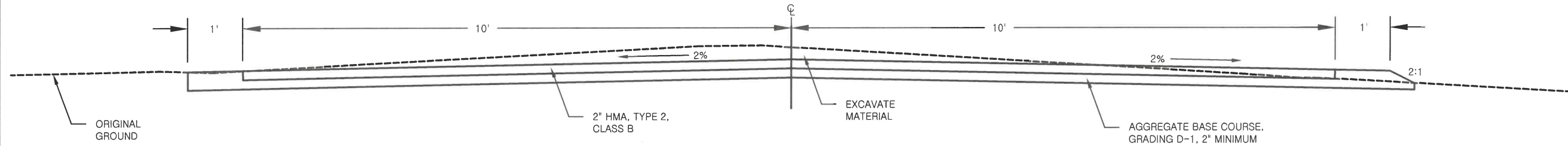


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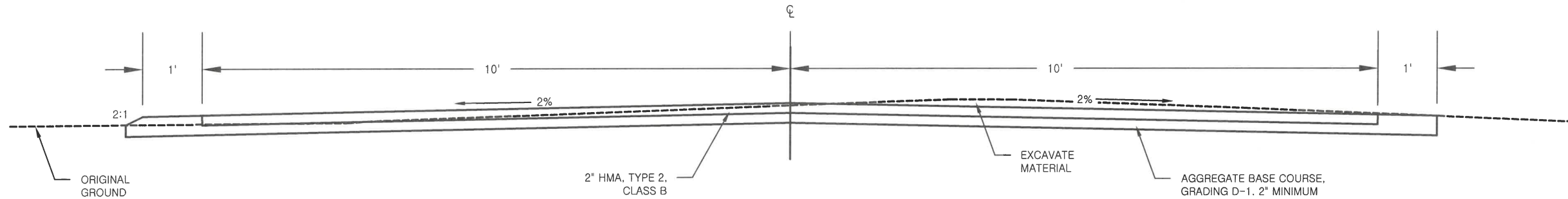
SHEET

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OF 18 SHEETS



1 ACCESS ROAD
7 STA 30+00 TO 32+65.75



2 LOOP ROAD
7 STA 10+00 TO 10+66, 11+45.5 TO 12+29.5, 12+67.5 TO 13+66, 14+03 TO 18+05, 18+57 TO 18+68, & 19.49 TO 19+72

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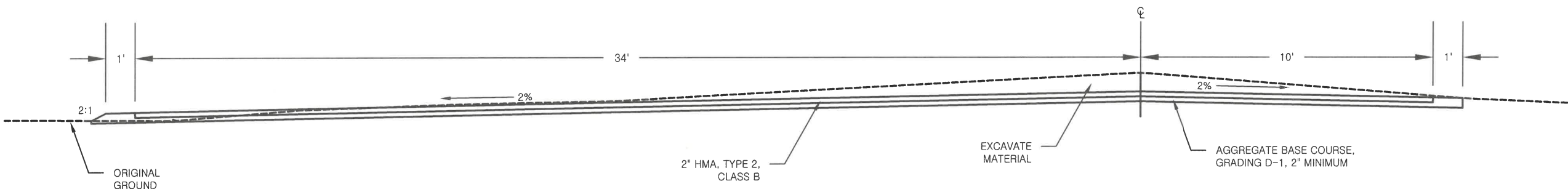
PREPARED: EEH
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SHEET

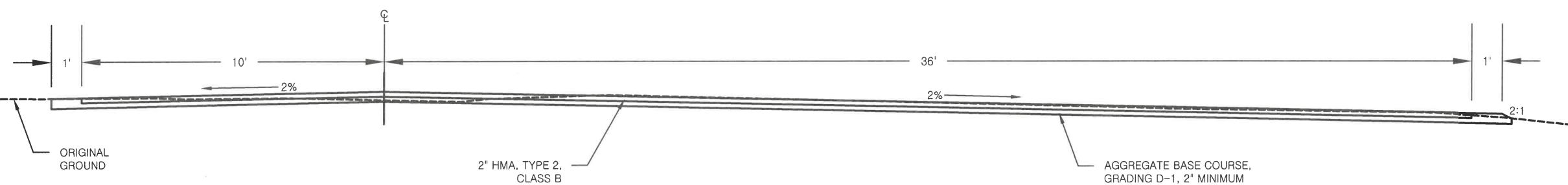
7

OF 16 SHEETS

TYPICAL SECTIONS



1 LOOP ROAD PARKING
8 STA 18+05 TO 18+57



2 LOOP ROAD PULLOUT
8 STA 12+29.5 TO 12+67.5, 13+66 TO 14+03

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TYPICAL SECTIONS

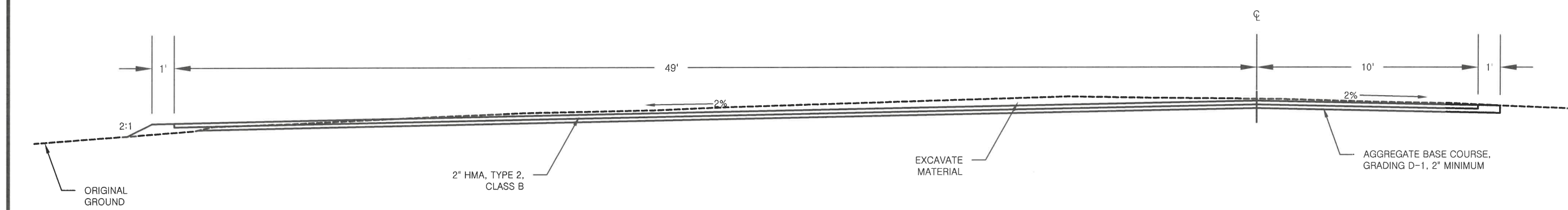


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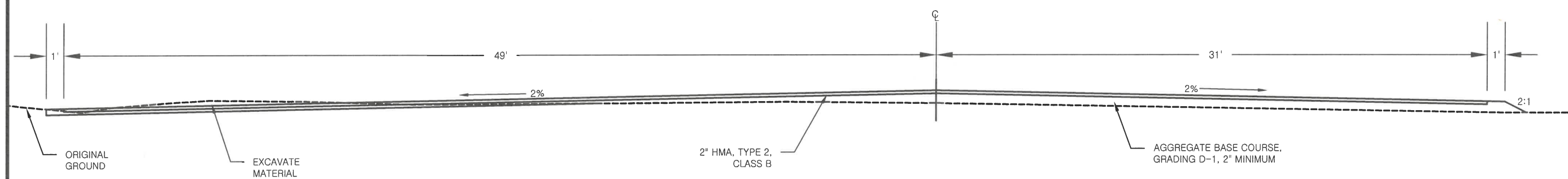
SHEET

8

OF 16 SHEETS



1 PARKING AREA
9 STA 33+55.5 TO 34+49.5, 36+62.5 TO 37+69.5



2 PARKING AREA WITH PULLOUT
9 STA 34+49.5 TO 36+62.5

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SHEET

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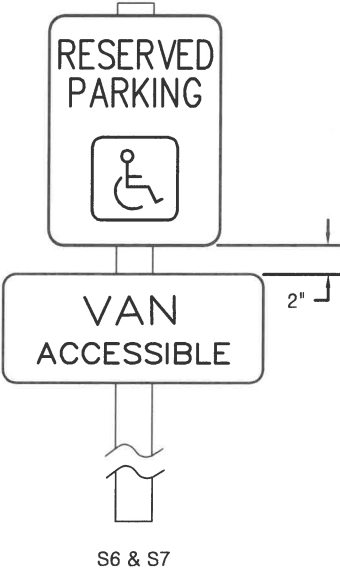
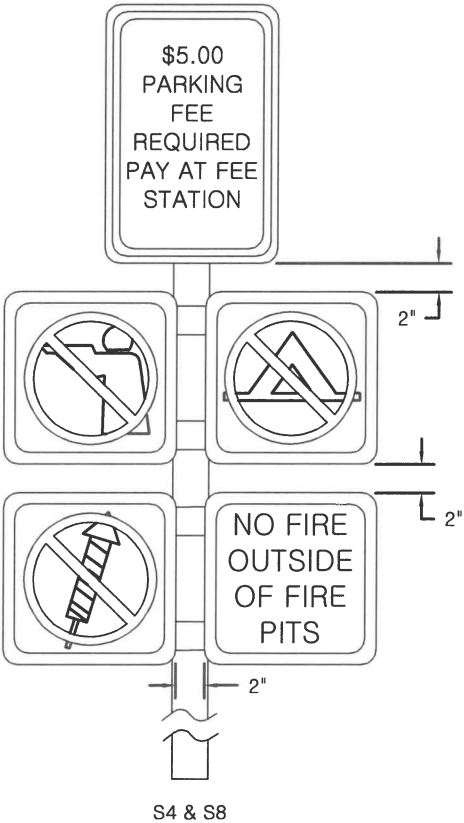
TYPICAL SECTIONS



ITEM 615.0000.0000 STANDARD SIGNS										
SIGN NO.	FACING	TYPE	LEGEND	SIZE (IN. X IN.)	AREA (S.F.)	THICKNESS (IN.)	SIGN POST DATA			
							TYPE	SIZE (IN. X IN.)	NO.	LOCATION
S1	SE	R1-1		30 X 30	5.15	0.125	PST	2.5 X 2.5	1	N: 3949824 E: 1335683
S2	SW	R1-1		30 X 30	5.15	0.125	PST	2.5 X 2.5	1	N: 3949708 E: 1335745
S3	SW	R1-1		30 X 30	5.15	0.125	PST	2.5 X 2.5	1	N: 3950199 E: 1336047
S4	NW	CS-1		12 X 18	1.50	0.125	PST	2.5 X 2.5	1	N: 3949739 E: 1335775
		CS-2		12 X 12	1.00	0.125				
		CS-3		12 X 12	1.00	0.125				
		CS-4		12 X 12	1.00	0.125				
		CS-5		12 X 12	1.00	0.125				
		CS-5		12 X 12	1.00	0.125				
S5	NE	R1-1		30 X 30	5.15	0.125	PST	2.5 X 2.5	1	N: 3949772 E: 1335749
S6	SE	R7-8		12 X 18	1.50	0.125	PST	2.5 X 2.5	1	N: 3949849 E: 1335789
		R7-8aP		18 X 9	1.125	0.125				
S7	SE	R7-8		12 X 18	1.50	0.125	PST	2.5 X 2.5	1	N: 3949861 E: 1335800
		R7-8aP		18 X 9	1.125	0.125				

- Notes:
- ALL FINAL SIGN LOCATIONS SHALL BE FIELD LOCATED BY THE ENGINEER.
 - ALL SIGNS SHALL HAVE A CONCRETE FOUNDATION.
 - ALL SIGNS SHALL CONFORM TO THE ALASKA SIGN DESIGN GUIDE SPECS., 2020 EDITION, UNLESS OTHERWISE SPECIFIED.
 - SIGN MOUNT HARDWARE SHALL BE NUTS, BOLTS, AND WASHERS.
 - HANDICAPPED SIGNS MUST BE MOUNTED AT LEAST 60 INCHES ABOVE THE GROUND, MEASURED TO THE BOTTOM OF THE SIGN.
 - AN ARCHEOLOGIST APPROVED BY THE ENGINEER MUST BE PRESENT DURING EXCAVATION OF THE BASES FOR SIGNS 1, 5, & 9.

ITEM 615.0000.0000 STANDARD SIGNS										
SIGN NO.	FACING	TYPE	LEGEND	SIZE (IN. X IN.)	AREA (S.F.)	THICKNESS (IN.)	SIGN POST DATA			
							TYPE	SIZE (IN. X IN.)	NO.	LOCATION
S8	NW	CS-1		12 X 18	1.50	0.125	PST	2.5 X 2.5	1	N: 3950125 E: 1336055
		CS-2		12 X 12	1.00	0.125				
		CS-3		12 X 12	1.00	0.125				
		CS-4		12 X 12	1.00	0.125				
		CS-5		12 X 12	1.00	0.125				
S9	SW	R1-1		30 X 30	5.15	0.125	PST	2.5 X 2.5	1	N: 3950082 E: 1336104
PROJECT TOTALS				S.F. = 42			NO. OF POSTS = 9			



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DATE: 6/16/2025

SHEET

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OF 16 SHEETS

CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

SIGN SUMMARY

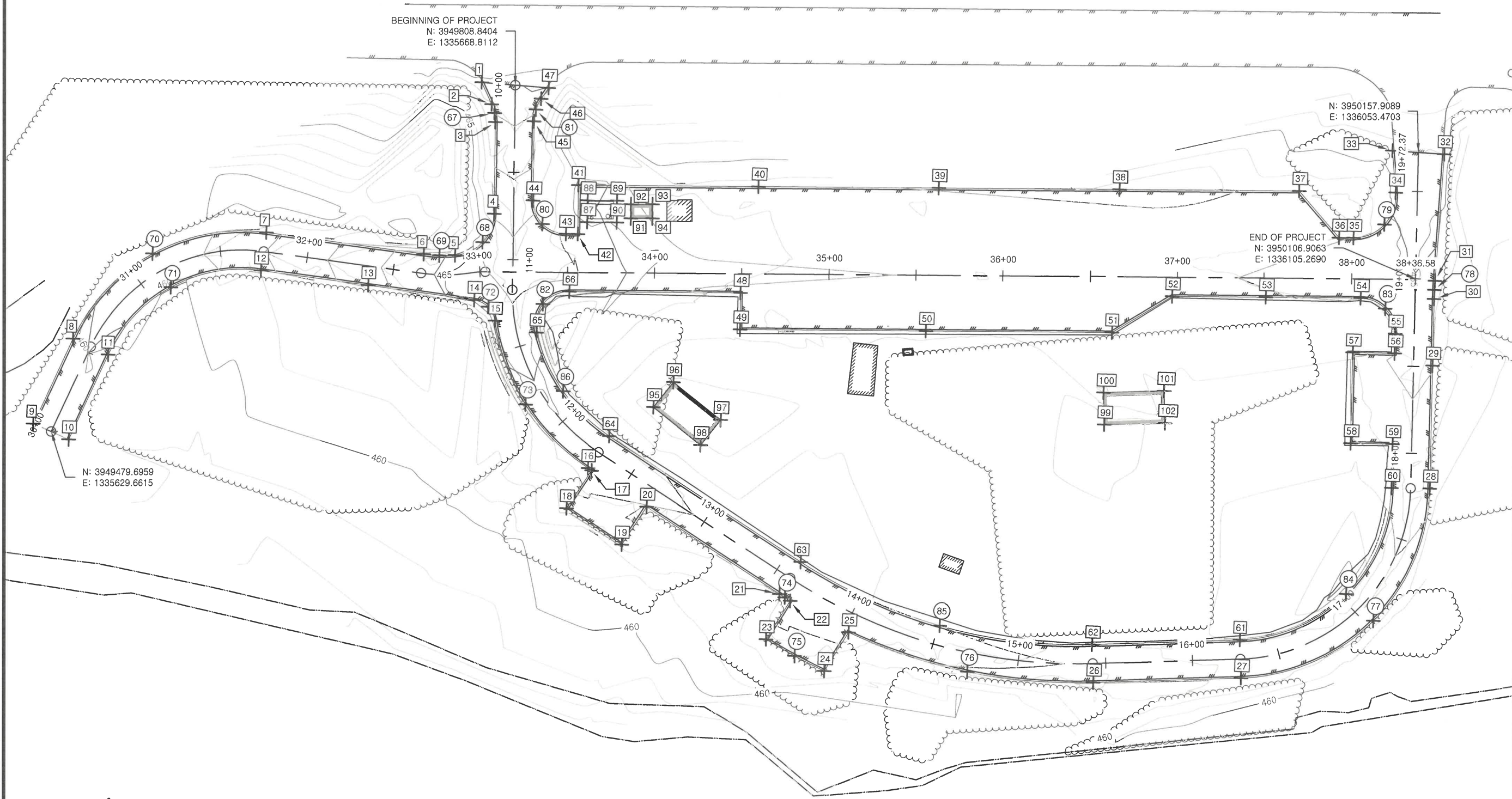
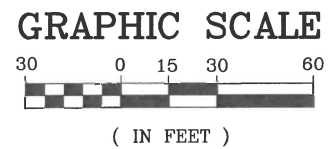
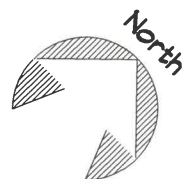


BEGINNING OF PROJECT
N: 3949808.8404
E: 1335668.8112

END OF PROJECT
N: 3950106.9063
E: 1336105.2690

N: 3950157.9089
E: 1336053.4703

N: 3949479.6959
E: 1335629.6615



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SHEET

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OF 16 SHEETS

CHENA PUMP SRS
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GRADING PLAN



COORDINATE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	3949796.12	1335654.49	469.74	EDGE OF GRAVEL
2	3949791.60	1335667.56	469.14	EDGE OF GRAVEL
3	3949786.16	1335676.41	468.85	EDGE OF GRAVEL
4	3949749.57	1335714.16	467.16	EDGE OF GRAVEL
5	3949717.01	1335715.93	465.26	EDGE OF GRAVEL
6	3949704.26	1335702.93	464.53	EDGE OF GRAVEL
7	3949647.54	1335631.84	461.75	EDGE OF GRAVEL
8	3949525.24	1335599.55	459.81	EDGE OF GRAVEL
9	3949475.60	1335619.45	459.48	EDGE OF GRAVEL
10	3949483.79	1335639.87	459.51	EDGE OF GRAVEL
11	3949533.43	1335619.98	459.81	EDGE OF GRAVEL
12	3949630.35	1335645.56	461.75	EDGE OF GRAVEL
13	3949668.89	1335693.88	463.59	EDGE OF GRAVEL
14	3949707.44	1335742.20	465.33	EDGE OF GRAVEL
15	3949707.91	1335759.03	465.55	EDGE OF GRAVEL
16	3949688.42	1335857.18	464.30	EDGE OF GRAVEL
17	3949688.97	1335859.49	464.28	EDGE OF GRAVEL
18	3949663.66	1335865.43	463.66	EDGE OF GRAVEL
19	3949672.33	1335902.42	463.46	EDGE OF GRAVEL
20	3949697.65	1335896.49	463.98	EDGE OF GRAVEL
21	3949718.52	1335985.51	463.29	EDGE OF GRAVEL
22	3949720.27	1335992.59	463.27	EDGE OF GRAVEL

COORDINATE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
23	3949695.11	1335999.12	462.77	EDGE OF GRAVEL
24	3949706.72	1336035.35	462.67	EDGE OF GRAVEL
25	3949732.05	1336028.75	463.16	EDGE OF GRAVEL
26	3949814.11	1336146.43	462.73	EDGE OF GRAVEL
27	3949877.68	1336203.22	462.47	EDGE OF GRAVEL
28	3950030.72	1336198.32	463.14	EDGE OF GRAVEL
29	3950080.16	1336148.11	464.05	EDGE OF GRAVEL
30	3950107.01	1336120.84	464.58	EDGE OF GRAVEL
31	3950114.50	1336113.62	464.72	EDGE OF GRAVEL
32	3950168.13	1336064.57	465.64	EDGE OF GRAVEL
33	3950147.82	1336042.50	465.71	EDGE OF GRAVEL
34	3950132.72	1336061.26	465.39	EDGE OF GRAVEL
35	3950097.36	1336063.48	464.02	EDGE OF GRAVEL
36	3950091.46	1336057.79	463.96	EDGE OF GRAVEL
37	3950093.40	1336022.73	463.26	EDGE OF GRAVEL
38	3950018.96	1335950.86	462.82	EGDE OF GRAVEL
39	3949944.52	1335878.99	462.63	EGDE OF GRAVEL
40	3949870.08	1335807.13	463.01	EGDE OF GRAVEL
41	3949795.64	1335735.26	465.00	EGDE OF GRAVEL
42	3949776.19	1335755.40	465.79	EGDE OF GRAVEL
43	3949771.31	1335750.69	465.79	EGDE OF GRAVEL
44	3949770.87	1335723.80	467.40	EGDE OF GRAVEL

COORDINATE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
45	3949802.37	1335691.29	468.87	EGDE OF GRAVEL
46	3949814.23	1335684.61	469.23	EGDE OF GRAVEL
47	3949821.62	1335683.05	469.35	EGDE OF GRAVEL
48	3949820.78	1335844.32	463.91	EGDE OF GRAVEL
49	3949806.20	1335859.43	463.26	EGDE OF GRAVEL
50	3949882.90	1335933.48	463.34	EGDE OF GRAVEL
51	3949959.60	1336007.54	463.18	EGDE OF GRAVEL
52	3949998.95	1336016.33	463.59	EGDE OF GRAVEL
53	3950037.85	1336053.89	463.90	EGDE OF GRAVEL
54	3950076.74	1336091.44	464.30	EGDE OF GRAVEL
55	3950077.10	1336119.86	464.24	EGDE OF GRAVEL
56	3950069.17	1336127.91	464.14	EGDE OF GRAVEL
57	3950052.07	1336111.08	463.64	EGDE OF GRAVEL
58	3950015.57	1336148.14	462.49	EGDE OF GRAVEL
59	3950032.68	1336164.98	463.43	EGDE OF GRAVEL
60	3950015.05	1336182.88	463.14	EGDE OF GRAVEL
61	3949892.33	1336186.81	462.47	EGDE OF GRAVEL
62	3949828.77	1336130.02	462.73	EGDE OF GRAVEL
63	3949739.94	1335980.49	463.29	EGDE OF GRAVEL
64	3949709.85	1335852.16	464.30	EGDE OF GRAVEL
65	3949720.39	1335780.25	465.28	EGDE OF GRAVEL
66	3949750.06	1335776.04	465.71	EGDE OF GRAVEL

RADIUS POINT TABLE				
POINT #	NORTHING	EASTING	RADIUS	DESCRIPTION
68	3949733.64	1335721.42	24'	RADIUS
69	3949710.30	1335709.76	89'	RADIUS
70	3949591.74	1335595.46	106'	RADIUS
71	3949586.12	1335616.73	84'	RADIUS
72	3949710.49	1335750.53	14'	RADIUS
73	3949687.55	1335806.00	121'	RADIUS
74	3949719.38	1335989.06	311'	RADIUS
75	3949700.40	1336017.40	337'	RADIUS
76	3949766.20	1336092.38	311'	RADIUS
77	3949955.18	1336231.38	111'	RADIUS
78	3950110.71	1336117.18	199'	RADIUS
79	3950115.53	1336070.17	24'	RADIUS
80	3949765.51	1335737.34	19'	RADIUS
81	3949807.81	1335687.09	24'	RADIUS
82	3949734.19	1335770.90	19'	RADIUS
83	3950082.85	1336105.57	20'	RADIUS
84	3949954.48	1336209.39	89'	RADIUS
85	3949772.84	1336062.09	289'	RADIUS
86	3949708.28	1335815.20	99'	RADIUS

LOCATION POINT TABLE				
POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
87	3949784.79	1335754.19	464.55	KIOSK S
88	3949793.48	1335745.21	464.55	KIOSK W
89	3949805.70	1335757.02	464.55	KIOSK N
90	3949797.02	1335766.00	464.55	KIOSK E
91	3949804.40	1335769.89	464.31	TRASHCAN S
92	3949810.02	1335764.00	464.31	TRASHCAN W
93	3949819.02	1335772.58	464.31	TRASHCAN N
94	3949813.47	1335778.46	464.31	TRASHCAN E

LOCATION POINT TABLE				
POINT NAME	NORTHING	EASTING	ELEVATION	DESCRIPTION
95	3949739.65	1335857.59	462.12	PICNIC SHELTER 1 S
96	3949757.81	1335855.06	462.12	PICNIC SHELTER 1 W
97	3949762.62	1335889.51	462.12	PICNIC SHELTER 1 N
98	3949744.46	1335892.05	462.12	PICNIC SHELTER 1 E
99	3949920.24	1336042.92	462.93	PICNIC SHELTER 2 S
100	3949932.46	1336029.24	462.93	PICNIC SHELTER 2 W
101	3949958.41	1336052.42	462.93	PICNIC SHELTER 2 N
102	3949946.19	1336066.09	462.93	PICNIC SHELTER 2 E

STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION
550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731



PREPARED: EEH
DRAWN: EEH
REVIEWED: RCS
DATE: 6/16/2025

SHEET

12
OF 16 SHEETS

CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

COORDINATE POINTS



STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION
550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

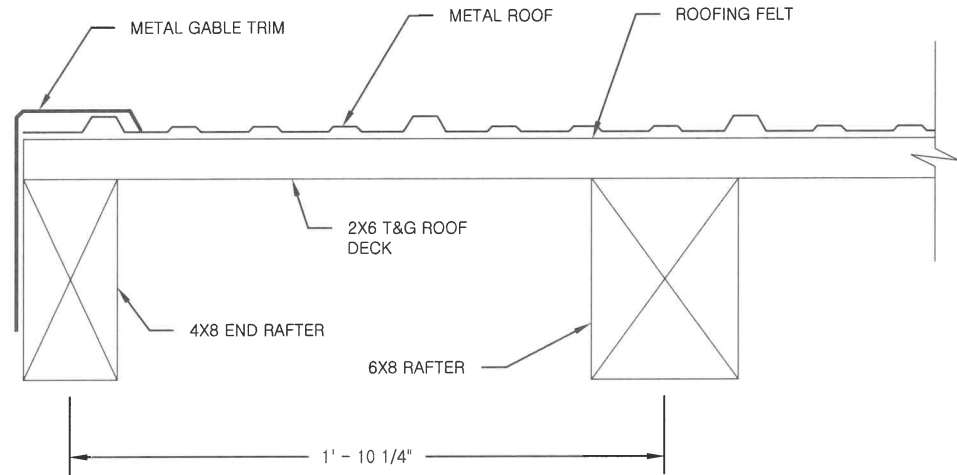


PREPARED: OLM
DRAWN: EEH
REVIEWED: RCS
DATE: 6/16/2025

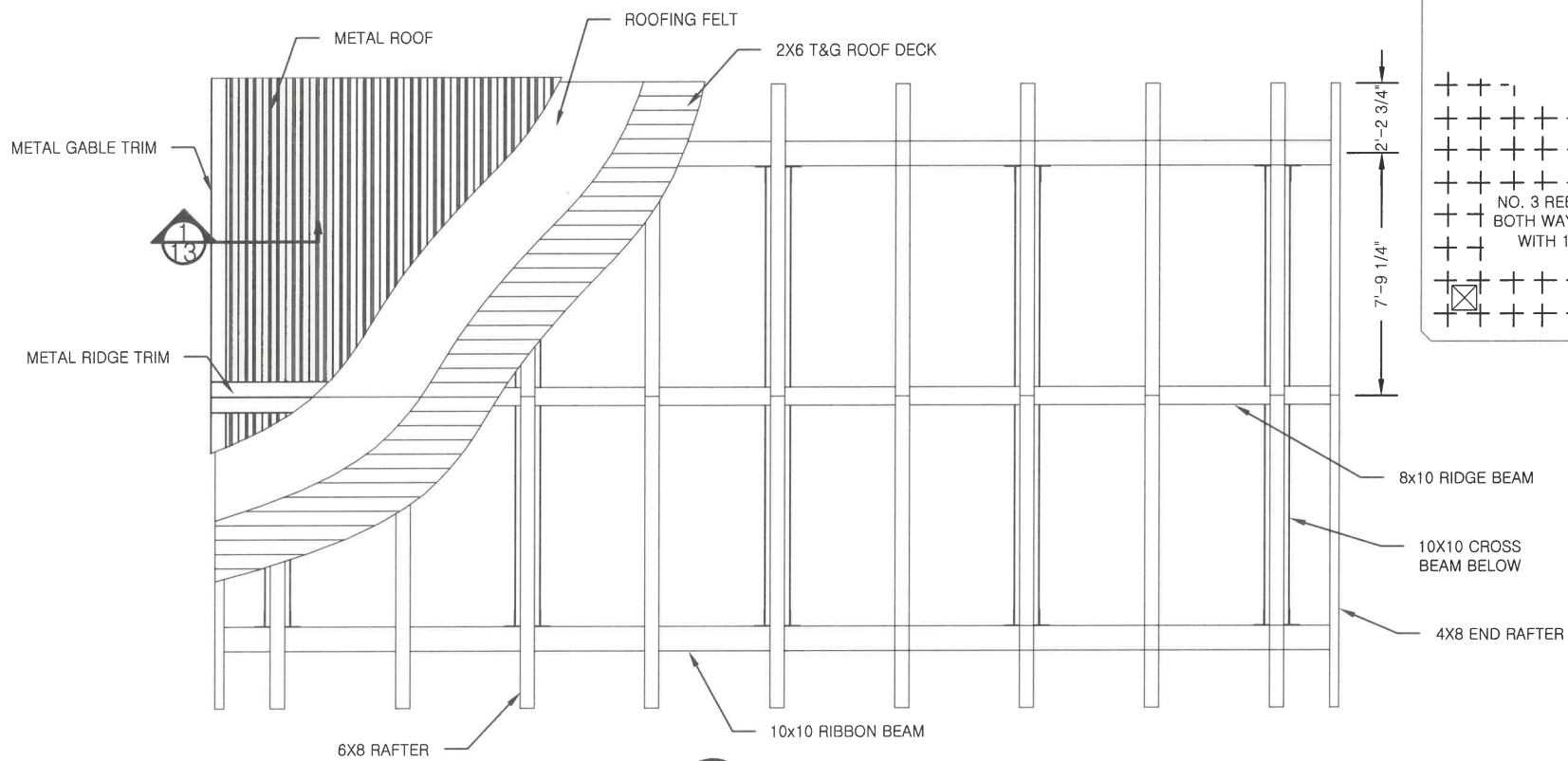
SHEET

13
OF 16 SHEETS

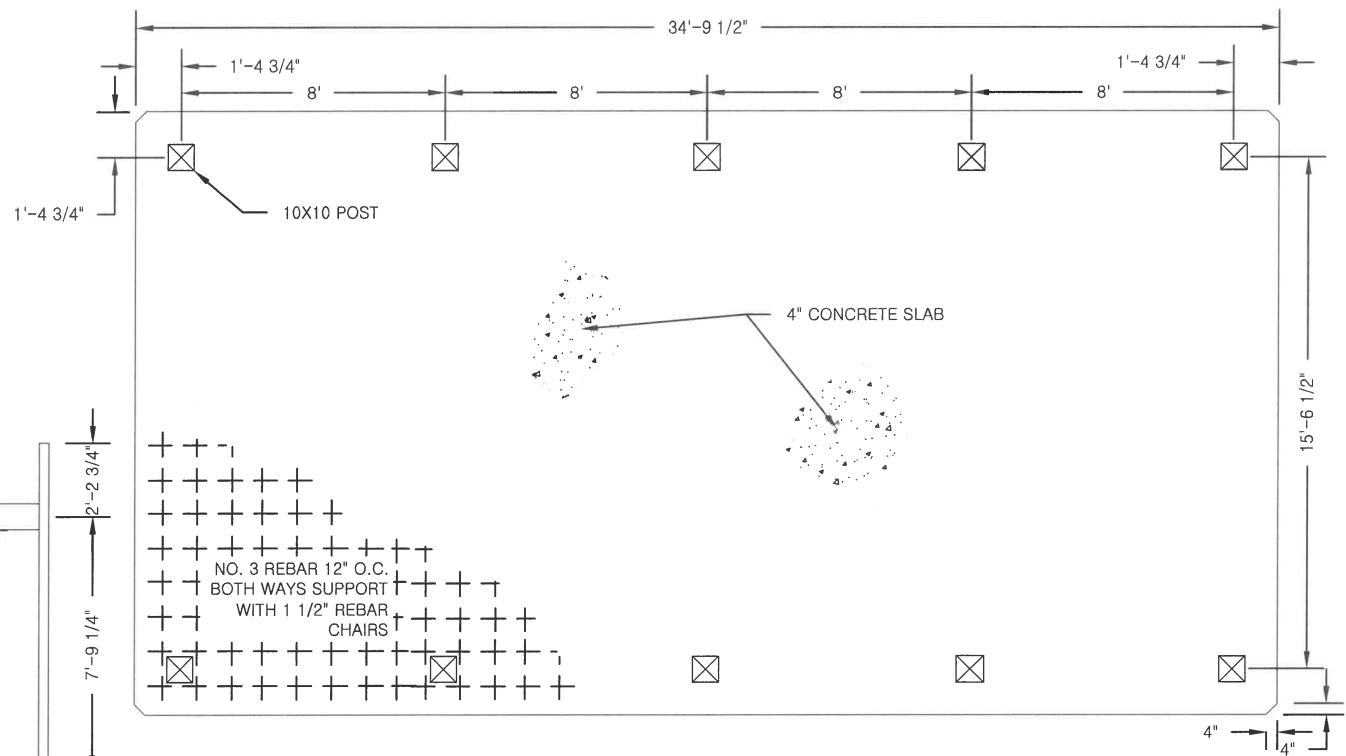
PICNIC SHELTER DETAIL



1
13 SECTION
GABLE



2
13 ROOF PLAN



3
13 FLOOR PLAN
POST LAYOUT



STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION
550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

PICNIC SHELTER DETAIL

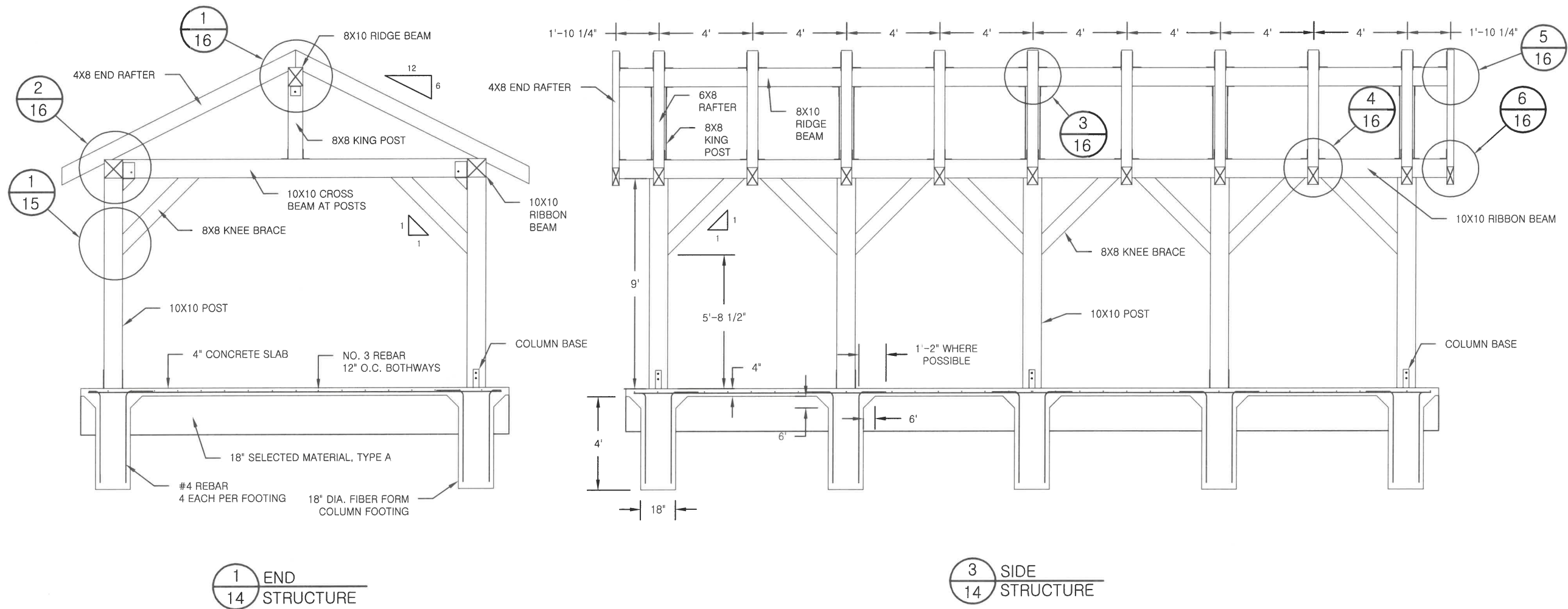


PREPARED: OLM
DRAWN: EEH
REVIEWED: RCS
DATE: 6/16/2025

SHEET

14

OF 16 SHEETS



Notes:

1. AN ARCHEOLOGIST APPROVED BY THE ENGINEER MUST BE PRESENT DURING EXCAVATION OF THE FOUNDATION FOR PICNIC SHELTERS 1 & 2.



STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
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CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

PICNIC SHELTER DETAIL

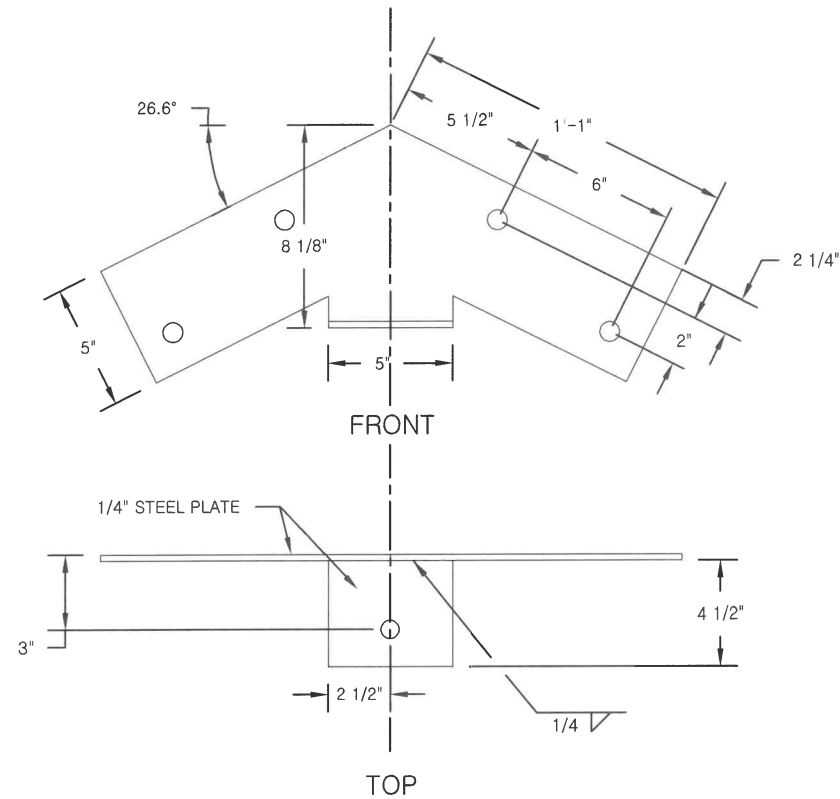


PREPARED: OLM
DRAWN: EEH
REVIEWED: RCS
DATE: 6/16/2025

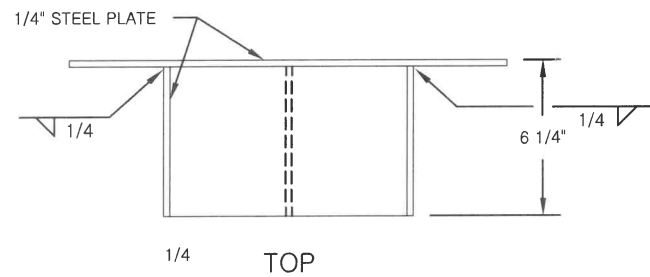
SHEET

15

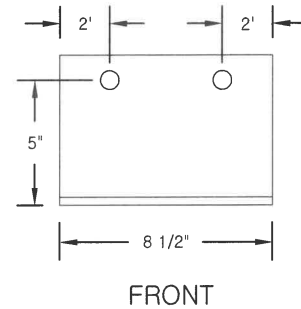
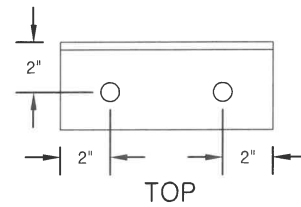
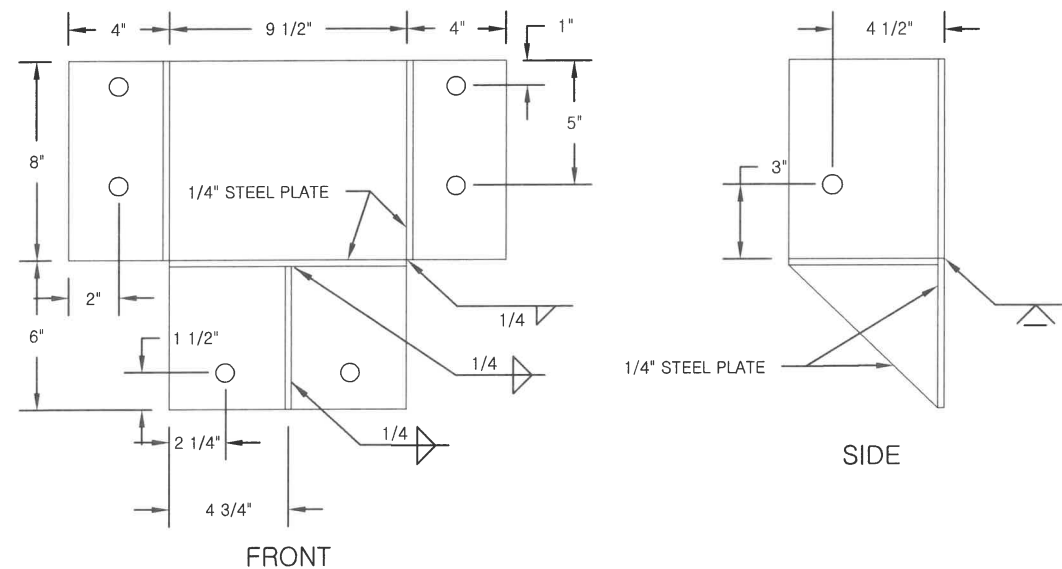
OF 16 SHEETS



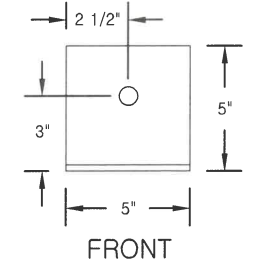
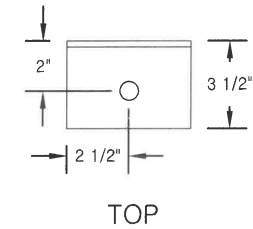
1 RIDGE BEAM BRACKET
15



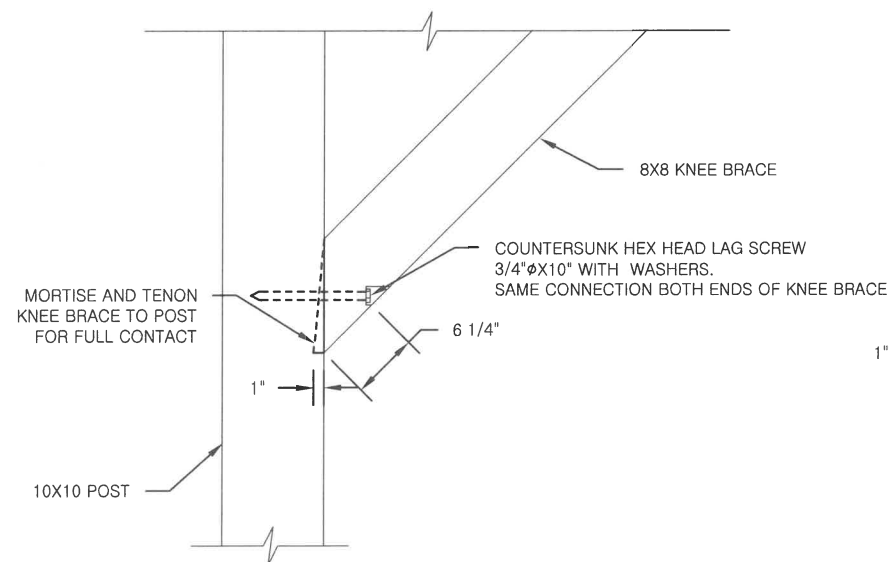
2 COLUMN TO BEAM BRACKET
15



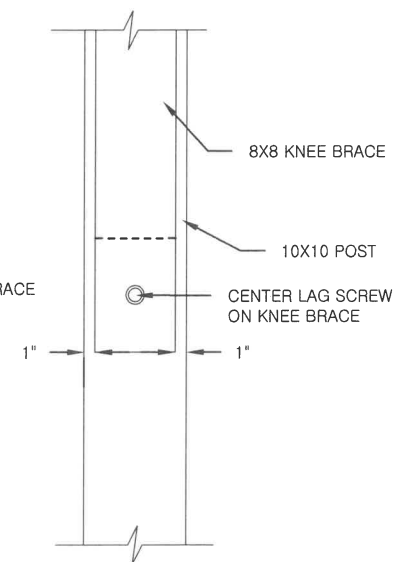
3 RAFTER ANGLE BRACKET
15



4 KING POST ANGLE BRACKET
15



5 DETAIL
15 KNEE BRACE CONNECTION



6 SIDE
15 KNEE BRACE CONNECTION

Notes:
1. ALL BRACKET HOLES ARE 13/16" DIA.
BRACKETS SHALL NOT BE BENT TO SHAPE



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CHENA PUMP SRS
FACILITY IMPROVEMENTS
PROJECT No. 71882-1

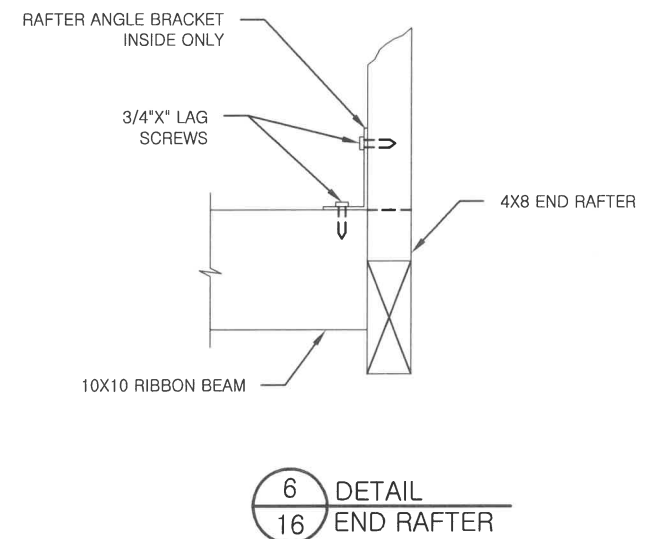
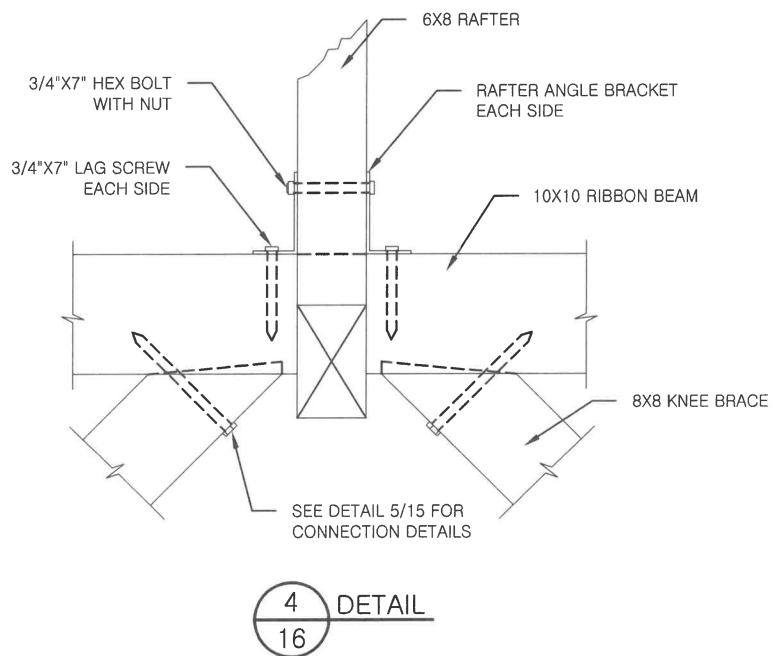
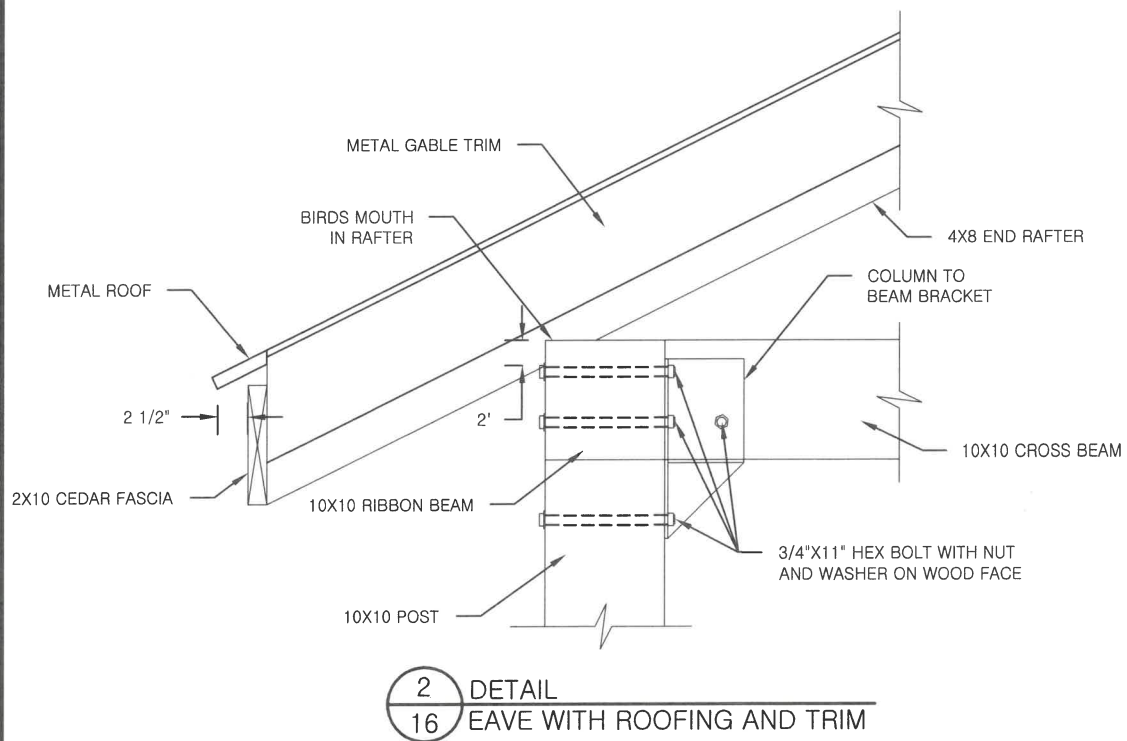
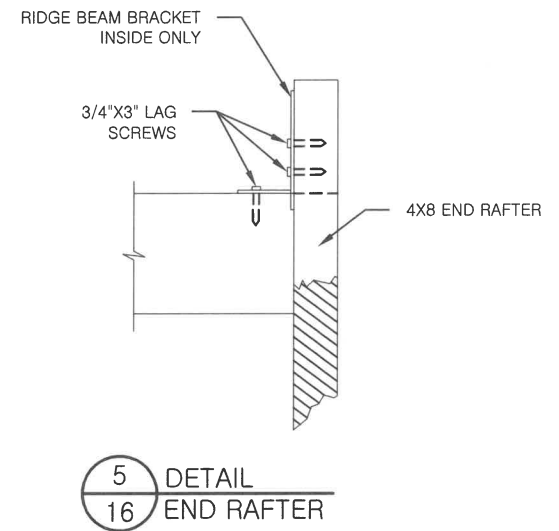
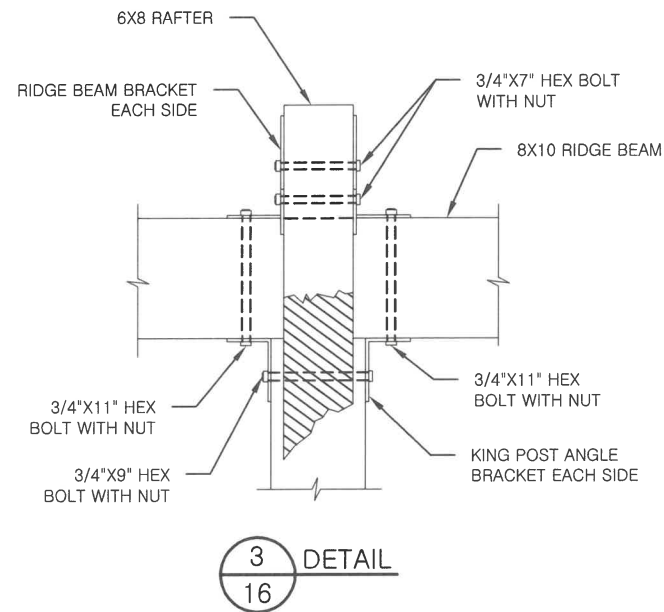
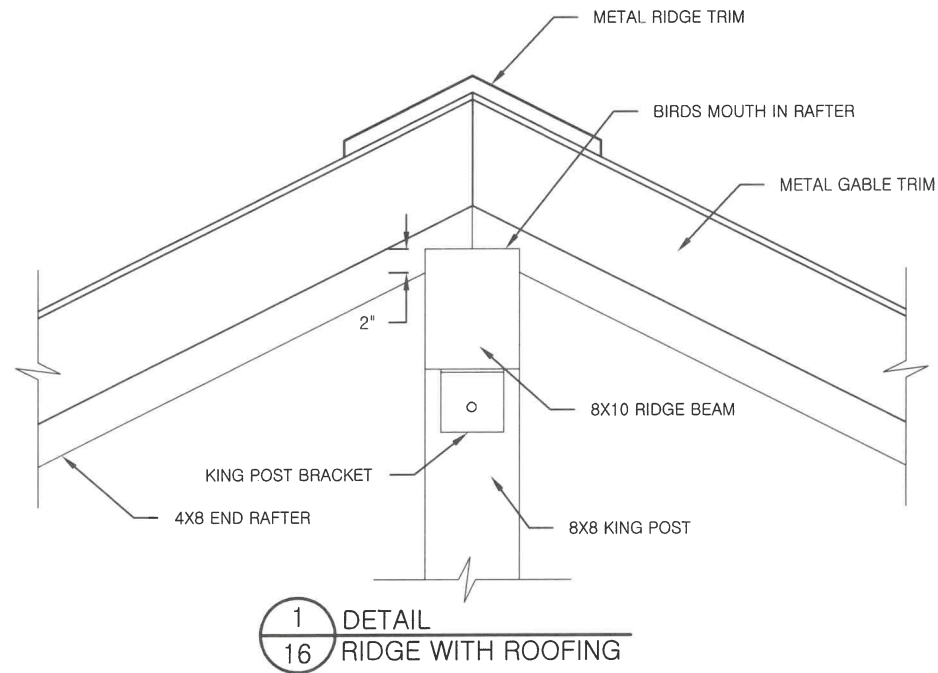


PREPARED: OLM
DRAWN: EEH
REVIEWED: RCS
DATE: 6/16/2025

SHEET

16

OF 16 SHEETS



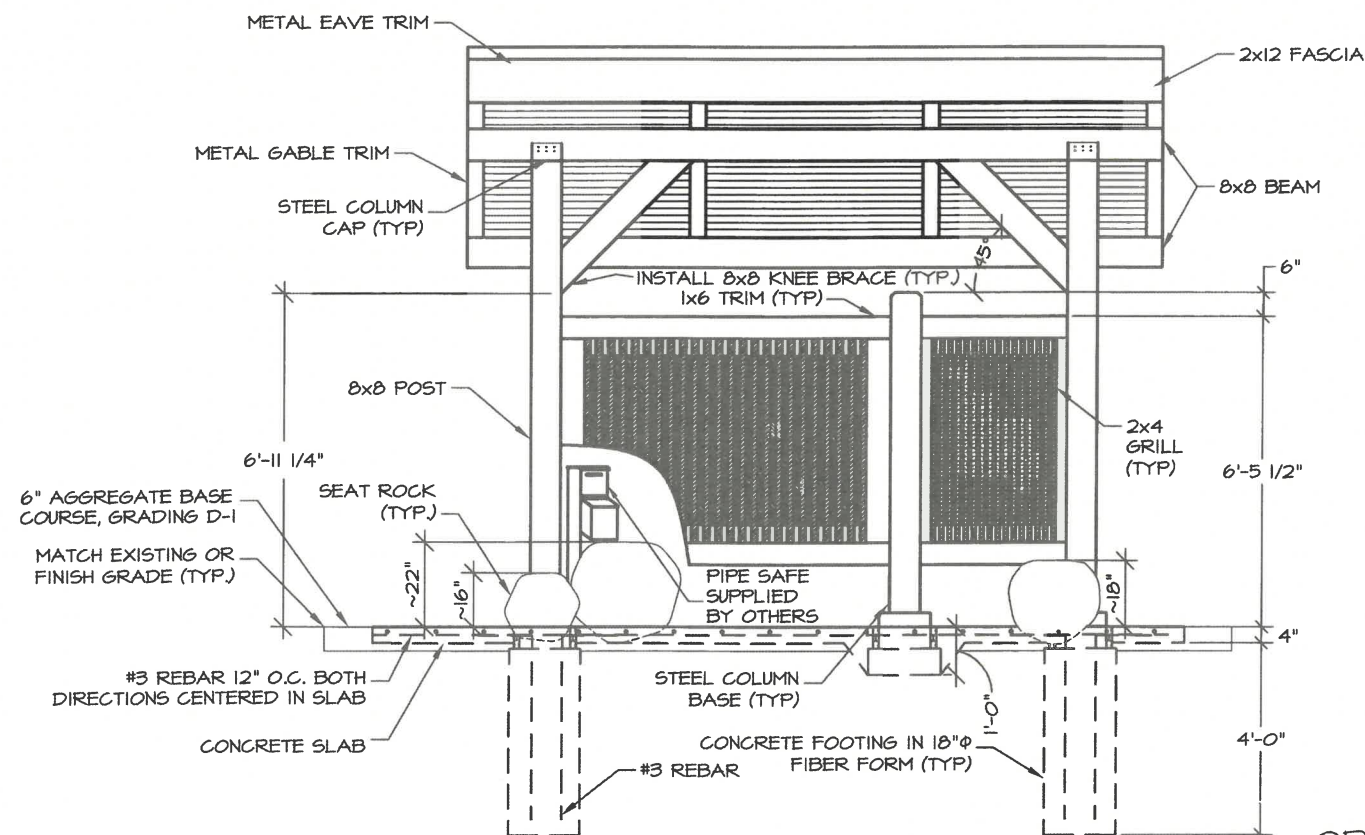
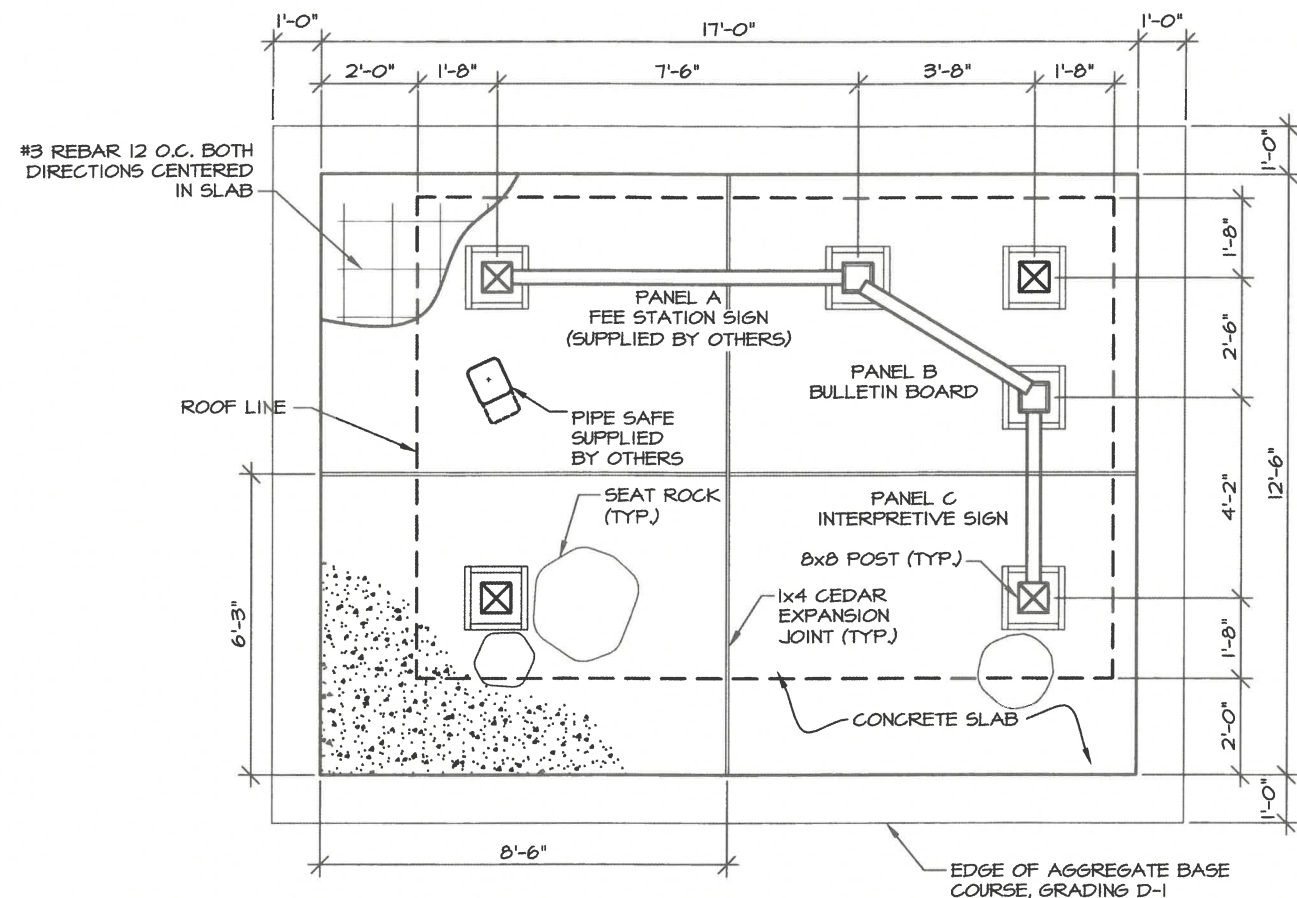
Notes:
1. KING POST ANGLE BRACKET TO BE USED AT BOTTOM OF POST FOR CONNECTING TO CROSS BEAM SHALL BE ATTACHED TO CROSS BEAM WITH 3/4" X 3" LAG SCREWS.



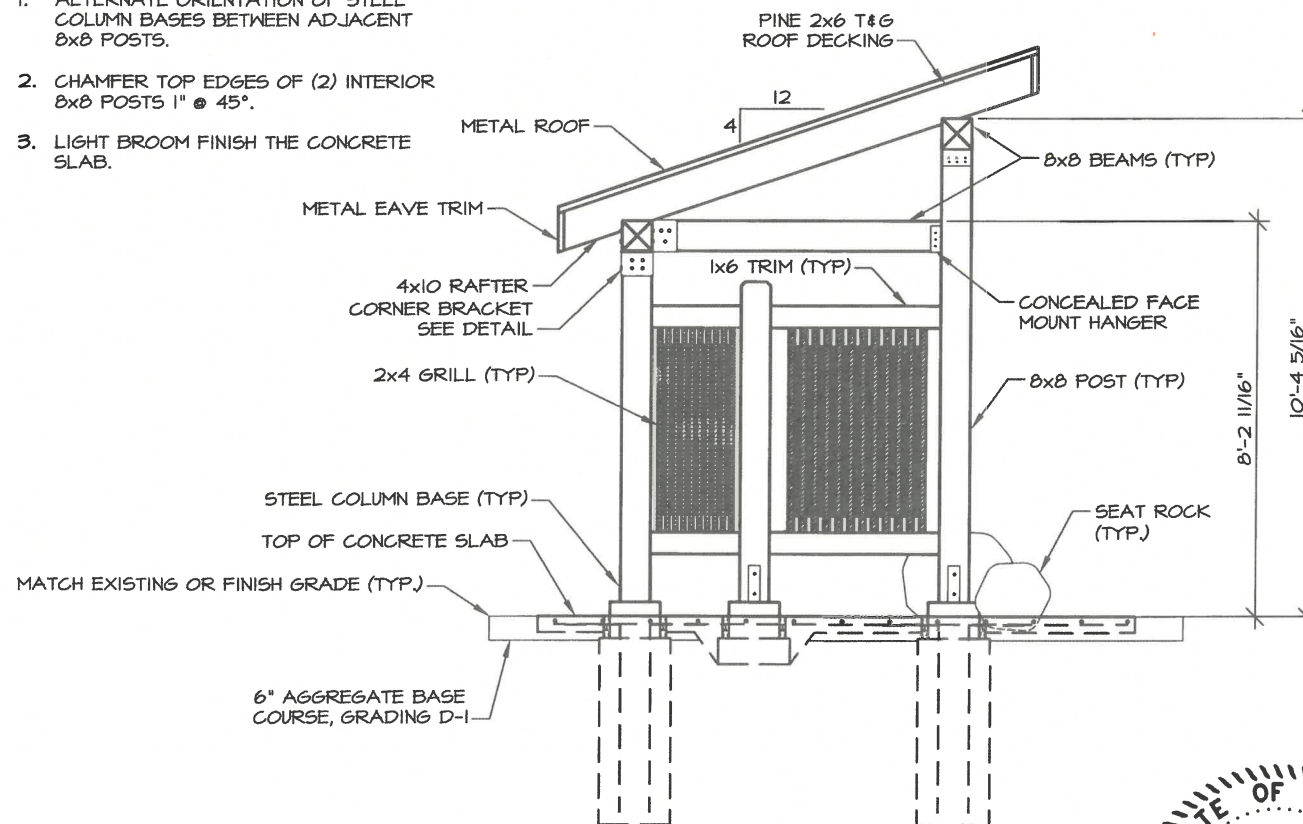
PREPARED: RBM/JAS
 DRAWN: AT/RBM/JAS
 REVIEWED: MPS
 DATE: JAN 2004

SHEET 1

S-10D
 OF 3 SHEETS



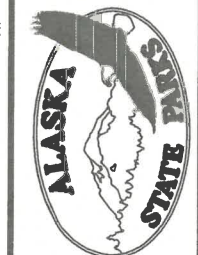
- NOTES:
1. ALTERNATE ORIENTATION OF STEEL COLUMN BASES BETWEEN ADJACENT 8x8 POSTS.
 2. CHAMFER TOP EDGES OF (2) INTERIOR 8x8 POSTS 1" @ 45°.
 3. LIGHT BROOM FINISH THE CONCRETE SLAB.



ORIENTATION KIOSK
 PLAN & PROFILE

NO.	REVISION	DATE	APPROVED
5	REPLACED STAMP	12/13	RBM
4	ADDED D-1 SHOULDER	12/10	MPS
3	CHANGED CONCRETE FOOTER, ADDED NOTE 3	12/10	MPS
2	UPDATED STATE PARK LOGO	12/10	MPS
1	CHANGED TITLE BLOCK	12/07	MPS

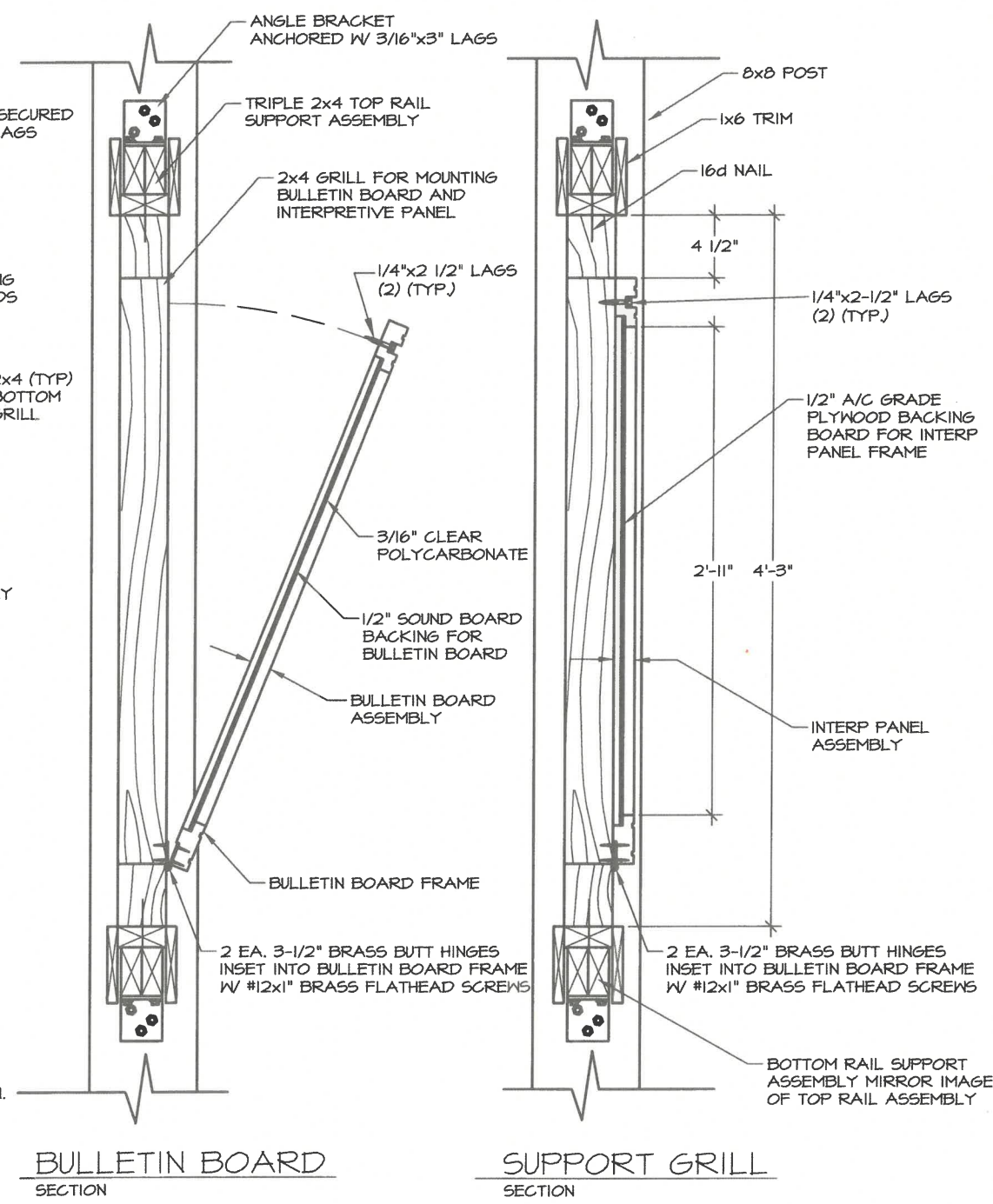




PREPARED: RBM/JAS
 DRAWN: AT/RBM/JAS
 REVIEWED: MPS
 DATE: JAN 2004

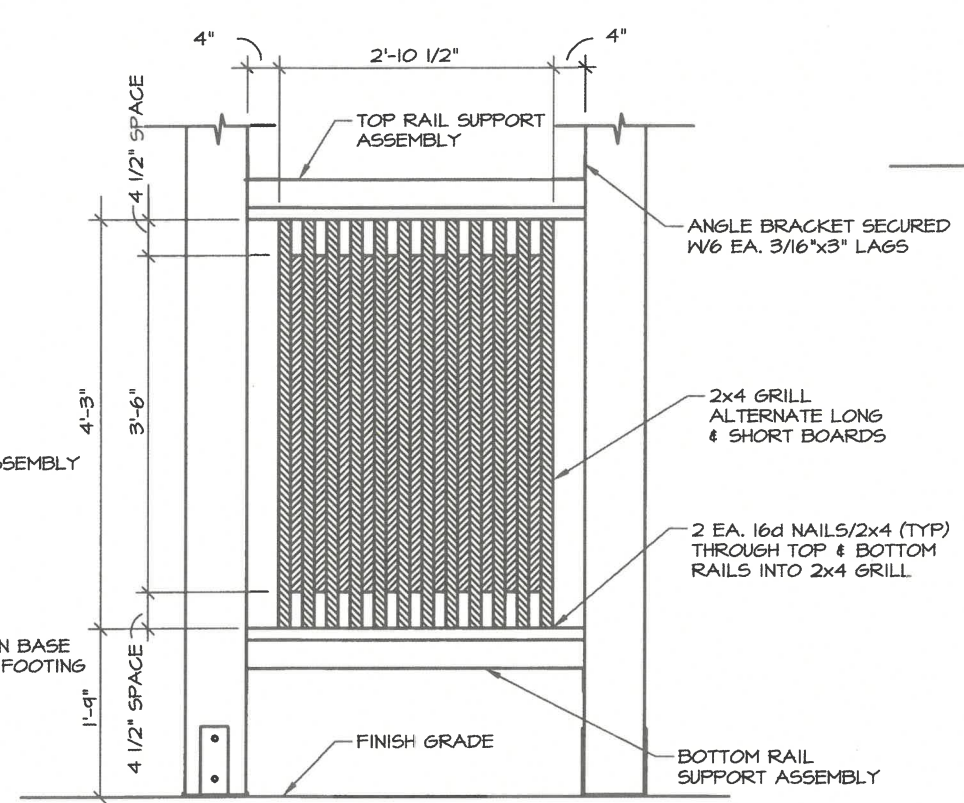
SHEET 2

S-10D
 OF 3 SHEETS

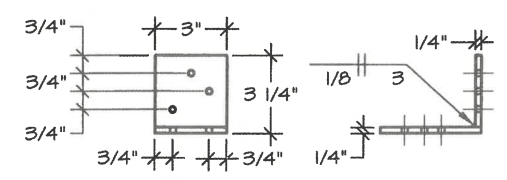
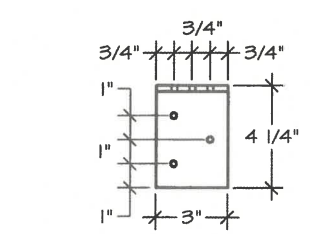


NOTES:
 1. INTERPRETIVE PANEL ASSEMBLY CONSISTS OF INTERPRETIVE GRAPHIC BACKING BOARD AND INTERP PANEL FRAME.
 2. INTERPRETIVE GRAPHIC PANEL SUPPLIED BY OTHERS MEASURES 3'-0 1/2"x2'-6 1/2"x1/8". THE CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR THIS GRAPHIC IN MEASUREMENTS AND CONSTRUCTION.

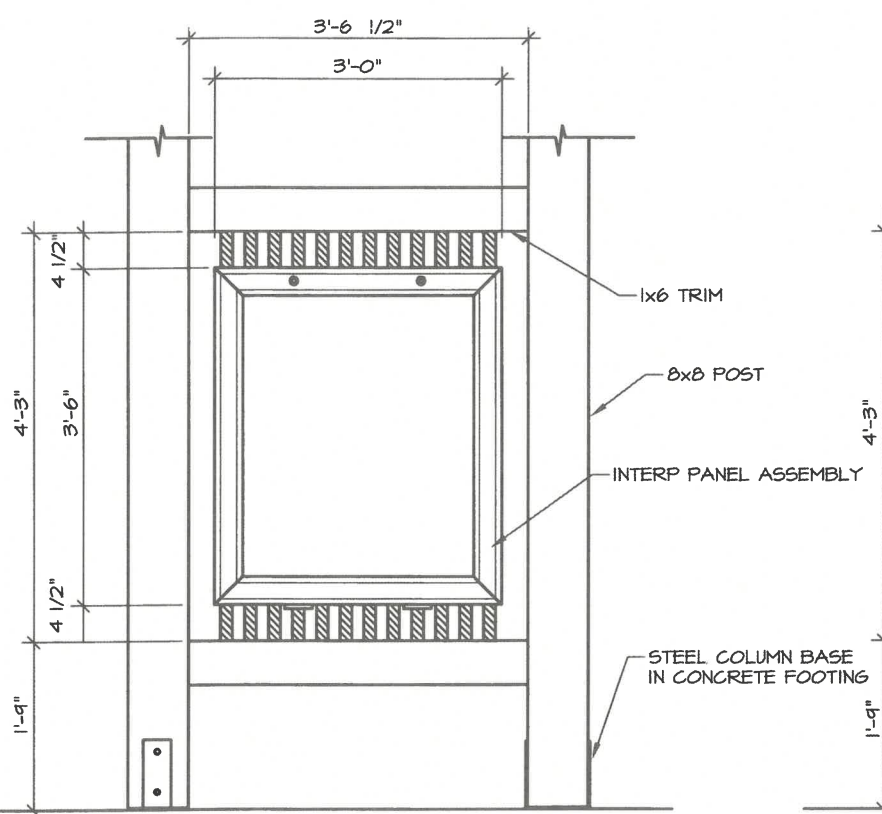
NO.	REVISION	DATE	APPROVED
4	REPLACED STAMP	12/13	RBM
3	CHANGED INTERP FRAME FASTENER SYSTEM	12/10	MPS
2	UPDATED STATE PARK LOGO	12/10	MPS
1	CHANGED TITLE BLOCK	12/07	MPS



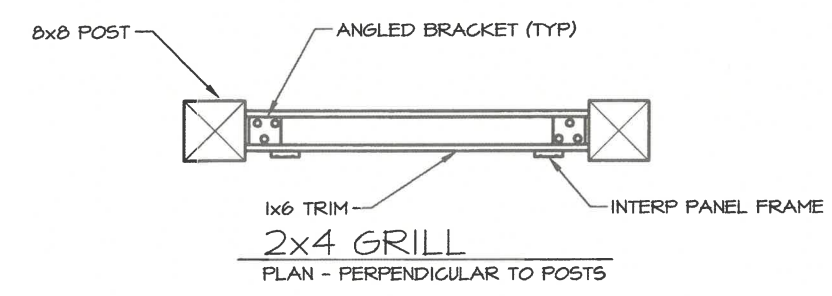
2x4 GRILL
 DETAILS - INTERP PANEL & 1x6 TRIM NOT SHOWN



ANGLE BRACKET
 DETAILS

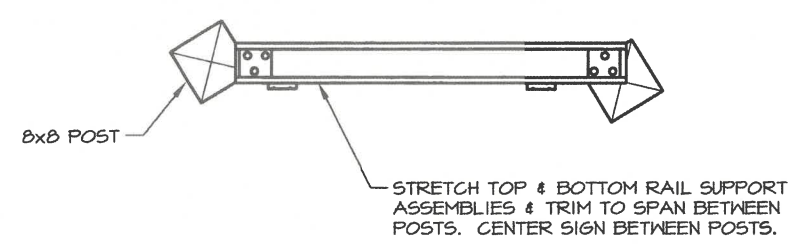


2x4 GRILL W/ INTERP PANEL
 DETAILS



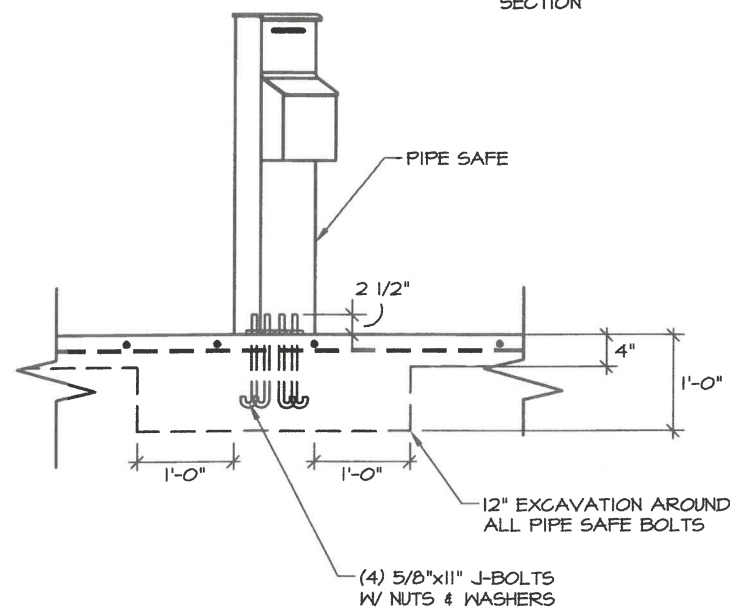
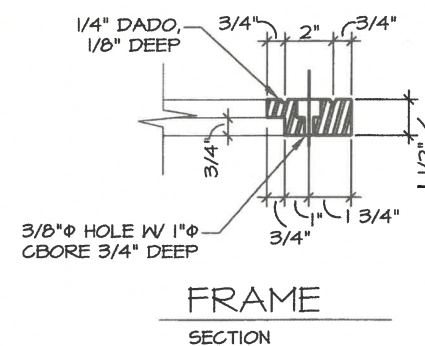
2x4 GRILL
 PLAN - ANGLED TO POSTS

NOTES:
 1. NOTCH POSTS TO FIT ANGLE BRACKETS & TOP/BOTTOM SUPPORT RAILS.
 2. DO NOT NOTCH POSTS FULL LENGTH OF 2x4 GRILL.



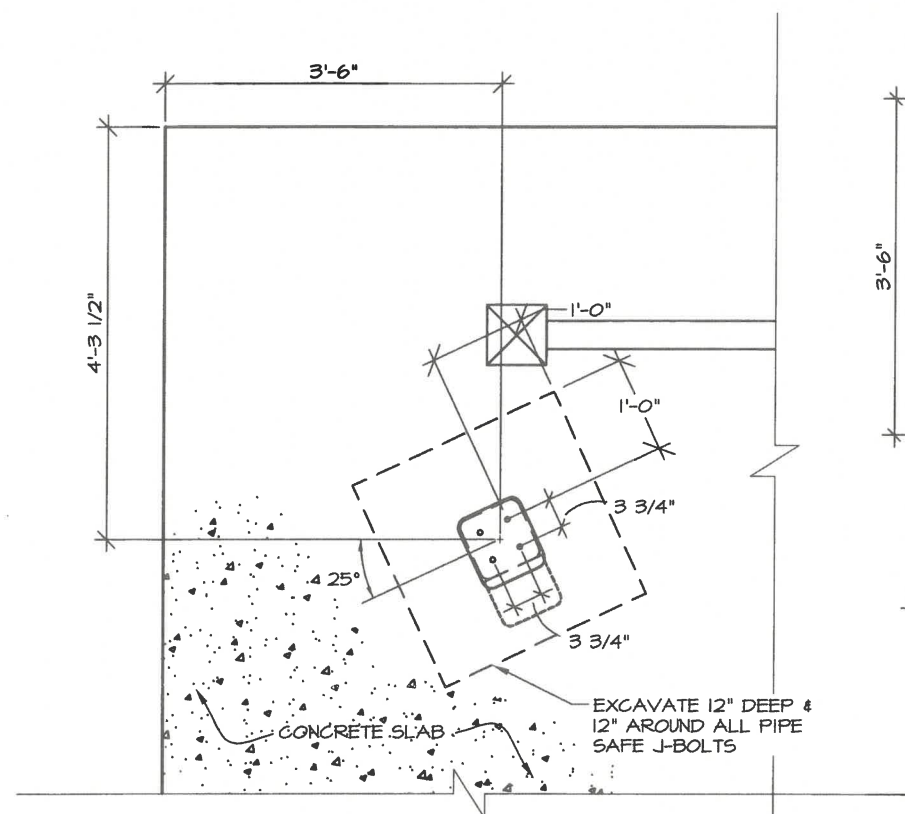
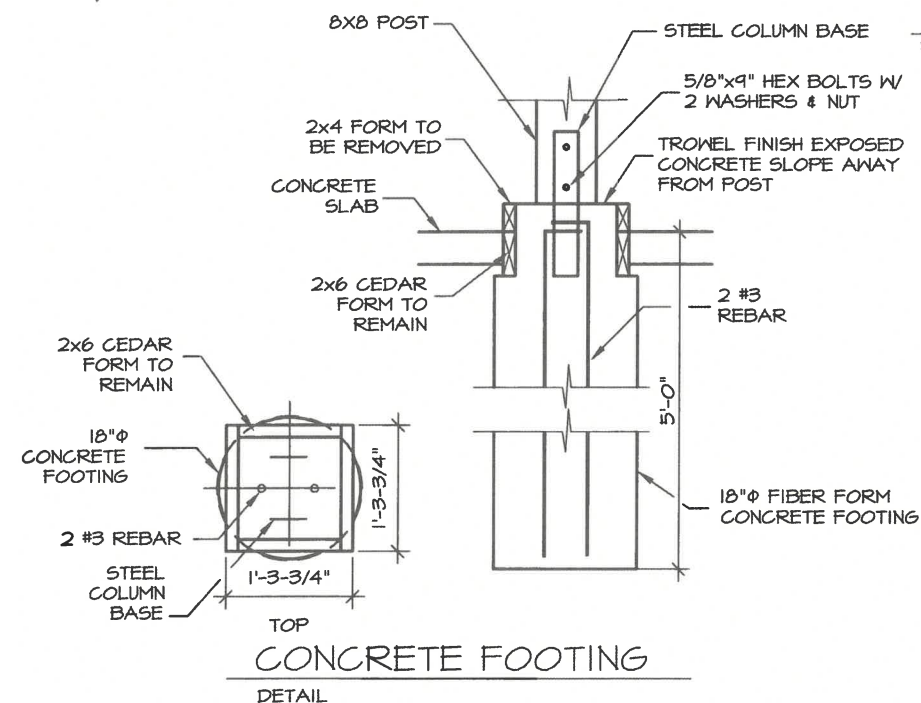
BEAM/RAFTER CONNECTION

DETAILS - 2x6 T&G DECKING & METAL ROOF NOT SHOWN

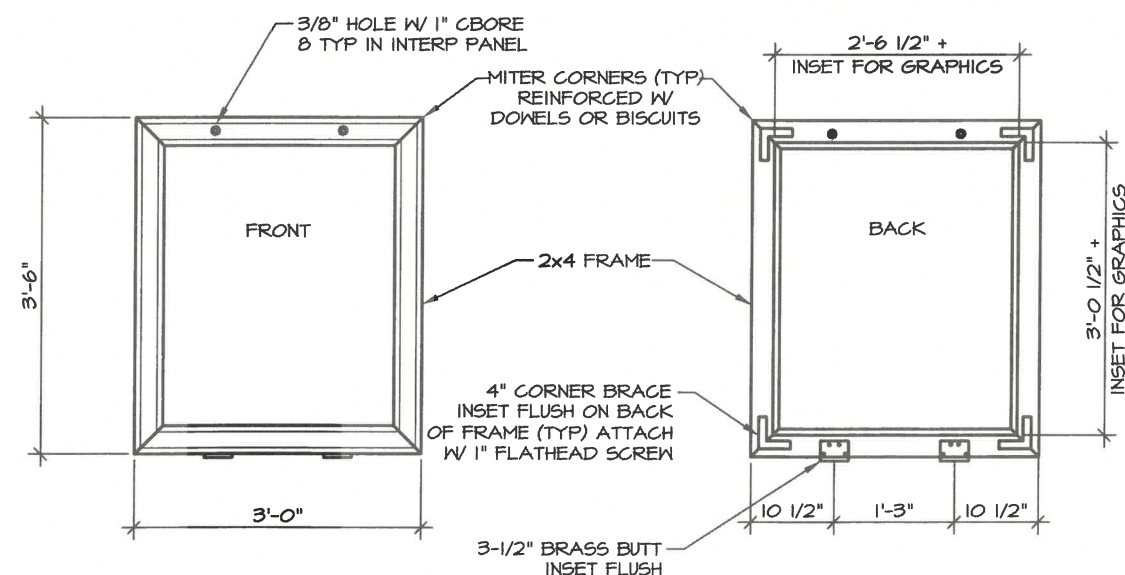
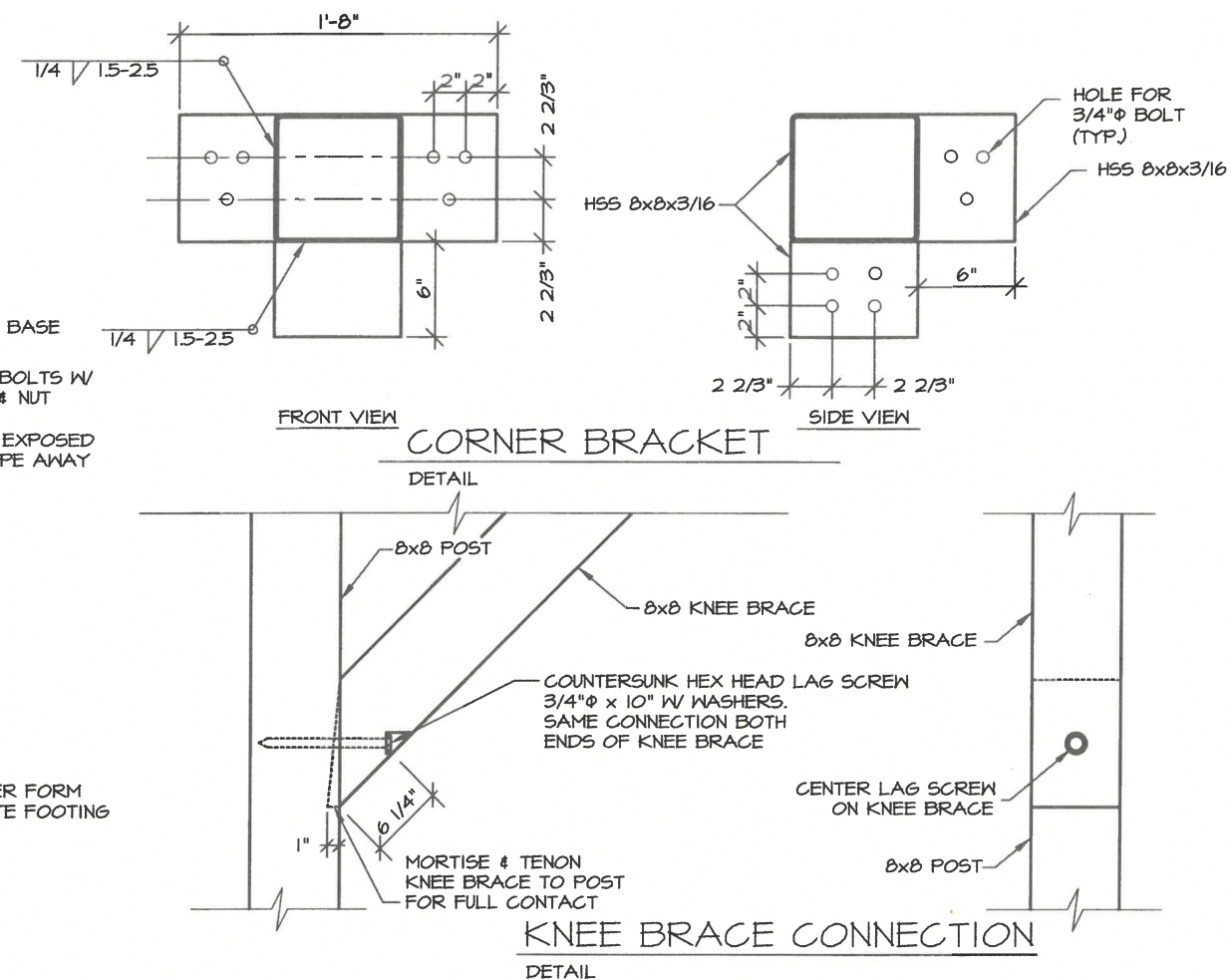


PIPE SAFE

DETAILS

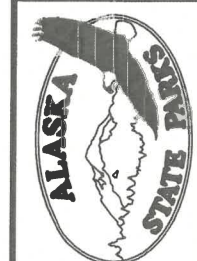


PIPE SAFE BOLT PATTERN



INTERP PANEL/BULLETIN BOARD FRAME

7	REPLACED STAMP	12/13	RBM
6	INCREASED THE SIZE OF THE J-BOLTS	12/10	MPS
5	ADDED COCRETE FOOTER DETAIL	12/10	MPS
4	ADDED KNEE BRACE CONNECTION DETAIL	12/10	MPS
3	UPDATED STATE PARK LOGO	12/10	MPS
2	CHANGED TITLE BLOCK	12/07	MPS
1	RELOCATED PIPE SAFE	8/07	MPS
NO.	REVISION	DATE	APPROVE





PREPARED: JAM
DRAWN: JAM
REVIEWED: D&C
DATE: 03/18/10

SHEET 1

S-11D

OF 1 SHEETS



36 1/2"x30 1/2"
INTERPRETIVE PANEL
(INSTALLED BY OTHERS)

1/4" ALUMINUM BACK PLATE
ATTACH TO POST W/ 1/4"x3" S.S.
WOOD SCREWS (3) ON EACH
POST & COUNTER SUNK

(9) 1/4"x1/2" TORX SCREW

ALUMINUM BACK PLATE
FLUSH WITH POST

1/2"x6" LAG SCREW (TYP)

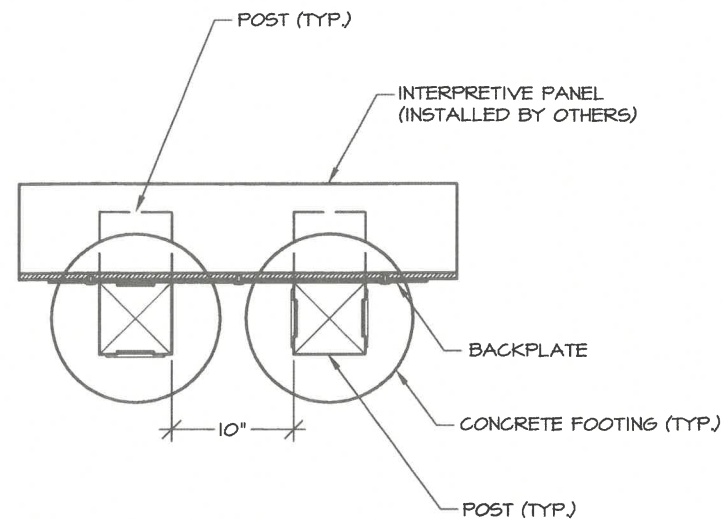
4" COUNTERSINK (TYP)
PLUG WHEN FINISHED

COPE POSTS TO FIT INTO
COLUMN BASES

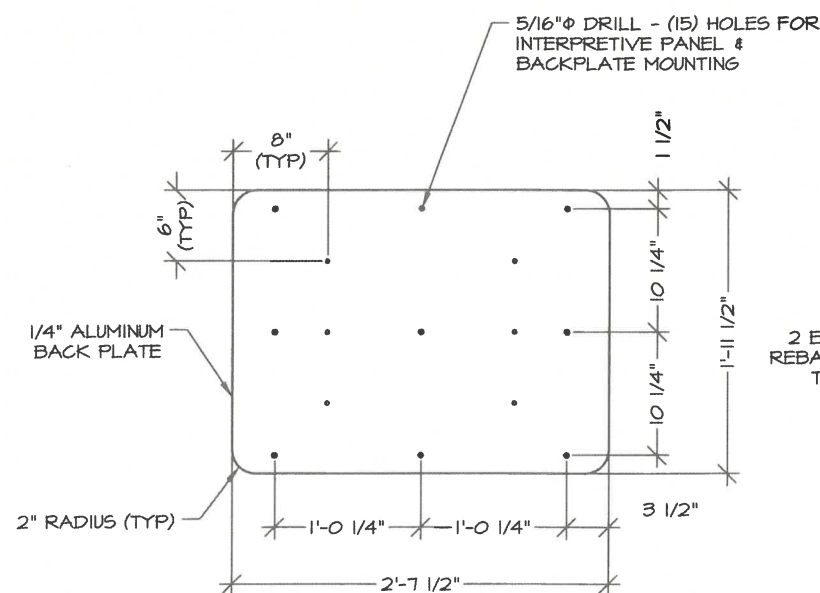
ORIGINAL GROUND

COLUMN BASE (SIMPSON
STRONG-TIE CB66 OR
APPROVED EQUAL)

14"Ø FIBER FORM CONCRETE
FOOTING



SECTION



ALUMINUM BACK PLATE

36 1/2"x30 1/2"
INTERPRETIVE PANEL
(INSTALLED BY OTHERS)

6"x6"
POST

LAG SCREW (TYP)

COLUMN BASES SET
90° TO EACH OTHER

ORIGINAL GROUND

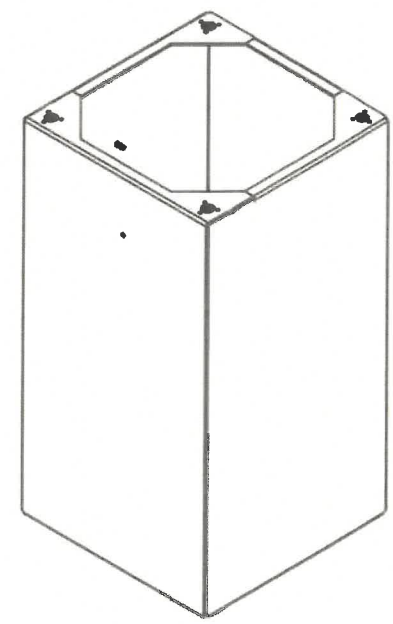
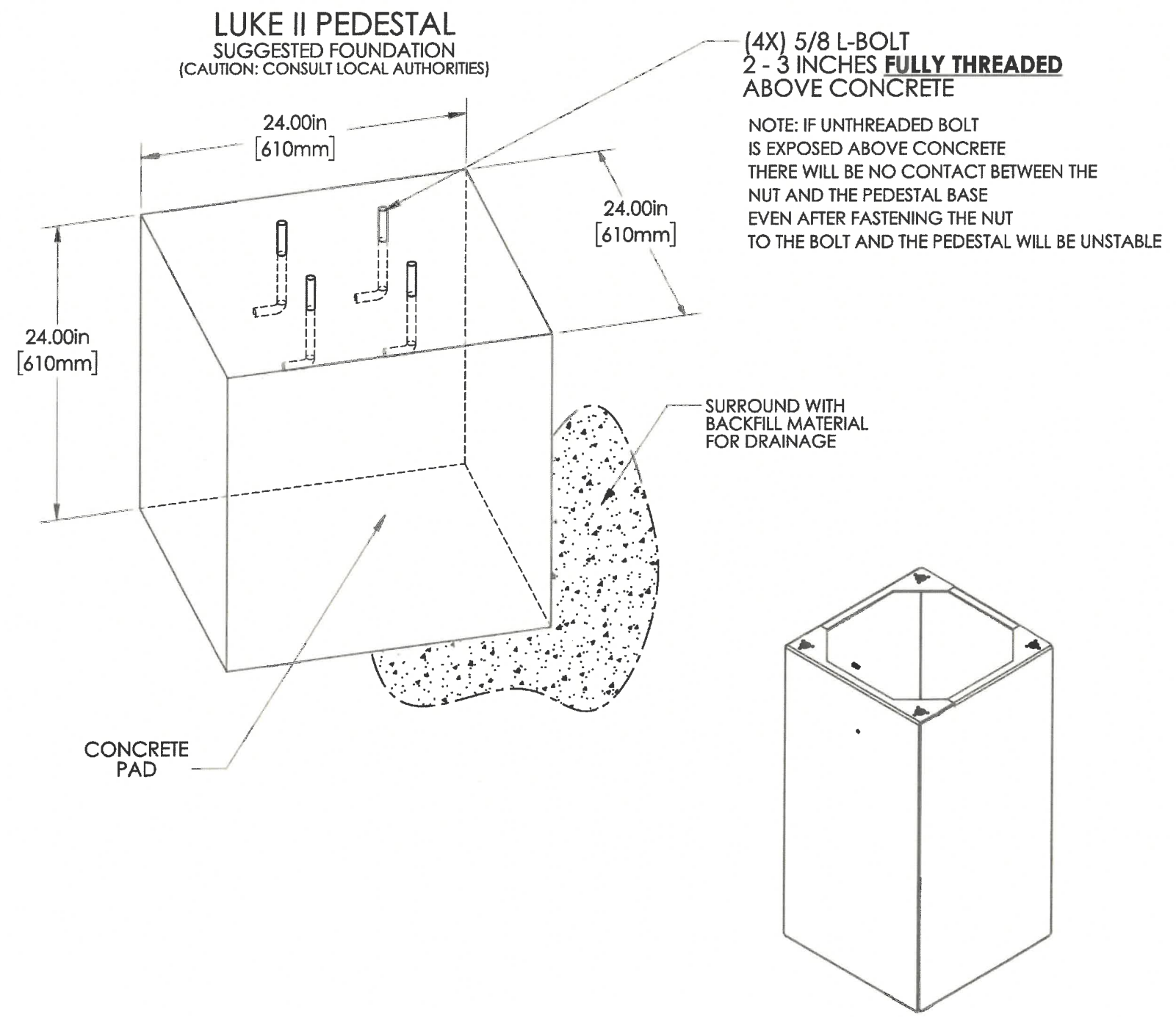
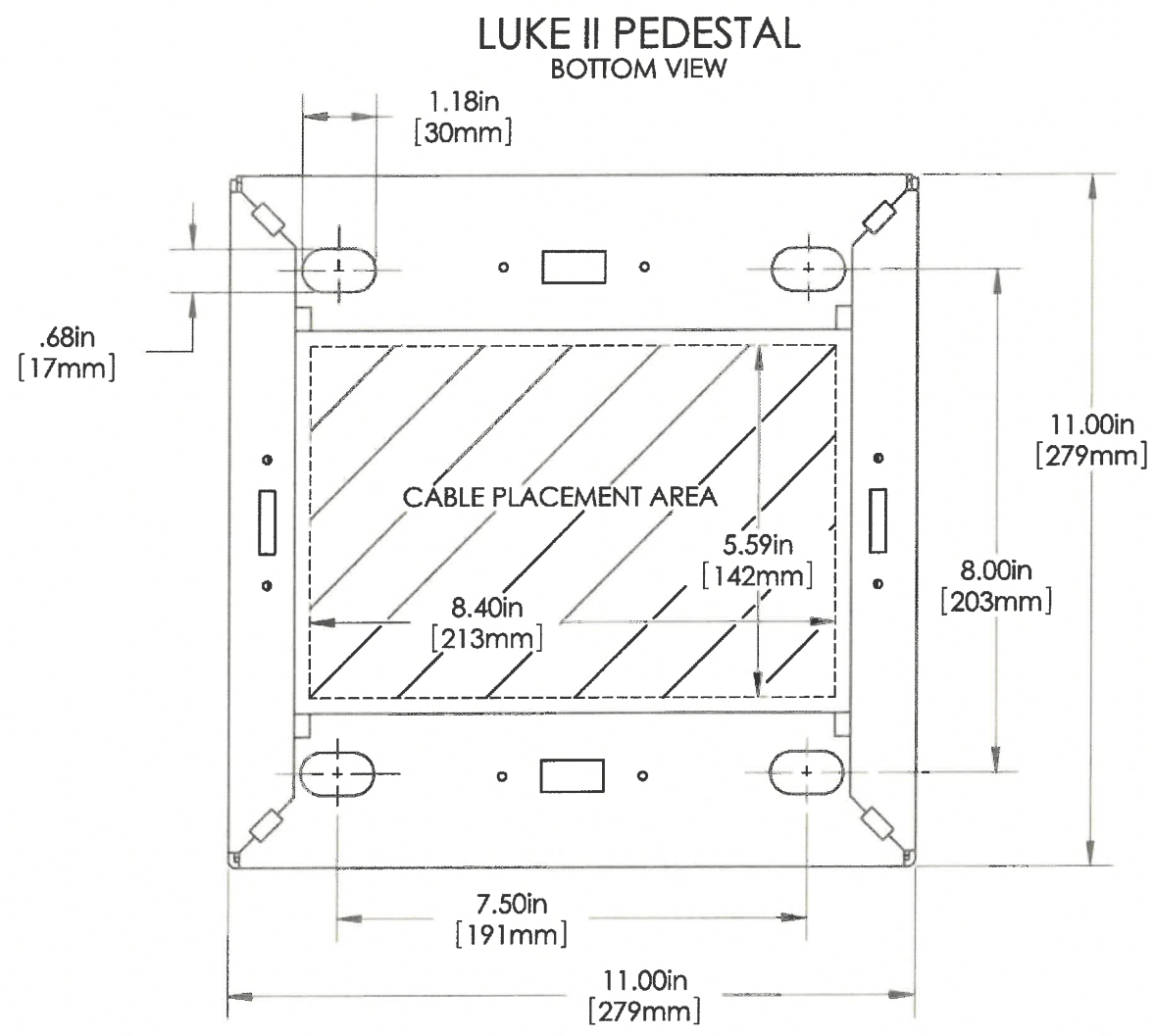
CONCRETE
FOOTING (TYP)

2 EA. #3 x 4'-4" (W/ BEND)
REBAR PER FOOTING. HOOK
THROUGH COLUMN BASE

BACK ELEVATION

SECTION

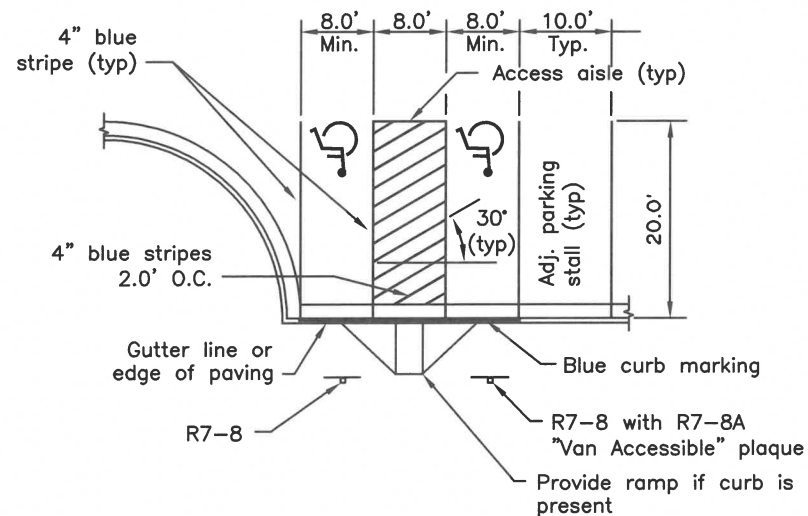
1	REPLACED STAMP	12/18	REM
NO.	REVISION	DATE	APPROVED



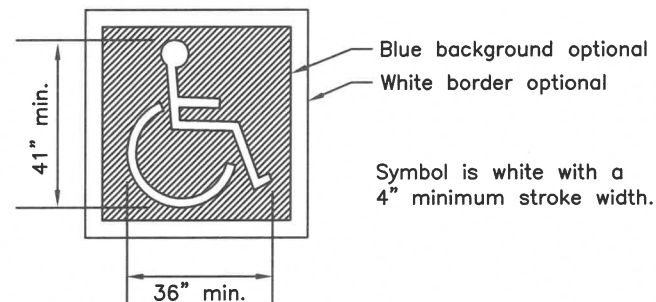
LUKE II PEDESTAL
PICTORIAL VIEW

REVISIONS					
REV.	DESCRIPTION	BY	CHK'D	APPR'D	DATE (YYYY-MM-DD)
A	INITIAL RELEASE	AN			2011-04-14
B	UPDATED FOUNDATION BOLT INSTALLATION INSTRUCTION	RS	SP	AS	2018-04-27

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES <u>LINEAR TOLERANCE</u> X. ±.05 .X ±.02 .XX ±.01 .XXX ±.005 <u>ANGULAR TOLERANCE</u> X. ±1° .X ±.5° UNDIMENSIONED FEATURES PER DIGITAL DATA ±.04 THIRD ANGLE PROJECTION 		MATERIAL		 T2 SYSTEMS CANADA INC 4321 STILL CREEK DR. SUITE 330, BURNABY, BC V5C 6S7 TEL:(888) 687-6822 www.T2systems.com	
		FINISH			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DPT. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DPT IS PROHIBITED.				TITLE LUKE II PEDESTAL MOUNTING	
SHEET SIZE B	SHEET NO. 1 OF 1	SCALE 1:3	PART NO. 980.0098		REV. B



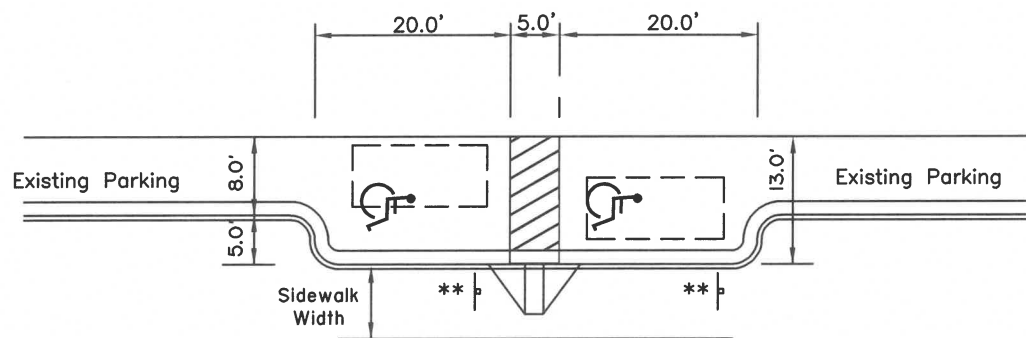
PARKING LOT ACCESSIBLE PERPENDICULAR PARKING



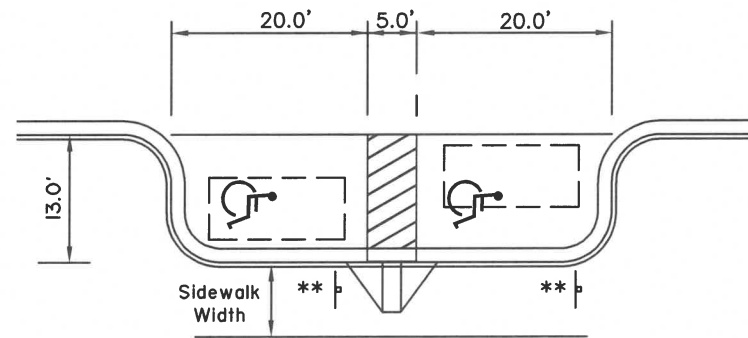
PAVEMENT MARKING SYMBOL DETAIL

GENERAL NOTES:

1. Accessible aisles and accessible routes and those pathways leading from the accessible parking space to the sidewalk shall be free of any obstructions, fixtures or loose surfaces.
2. See standard drawing I-20, I-21, I-22 for curb and curb ramp details.
3. All curb ramps shall be constructed of concrete.
4. The slope for all accessible parking spaces, van accessible parking spaces and access aisles shall not exceed 50:1 in any direction.
5. Although only perpendicular ramps are shown, either parallel or perpendicular ramps are allowable, space permitting.



ACCESSIBLE ON-STREET PARALLEL PARKING PARTIAL INSET



ACCESSIBLE ON-STREET PARALLEL PARKING FULL INSET

ON-STREET PARALLEL PARKING NOTES

1. The 13' width provides for 8' wide parking with a 5' wide access aisle on either side of a car.
2. Add a new curb ramp and 5' aisle between parking places for each additional two accessible parking spaces.
3. Parking spaces may be made van accessible by providing an unobstructed 8' sidewalk width next to each parking space. Ensure curb ramps, parking meters, sign posts, etc. do not encroach on the area where a van's lift would operate.
4. In some cases, ADAAG may allow normal-width parking spaces at the beginning and end of blocks to be designated as accessible. See the latest ADAAG.

** R7-8 "Reserved Parking" and, where appropriate (see note 3), R7-8A, "Van Accessible".

State of Alaska DOT&PF
ALASKA STANDARD PLAN

ACCESSIBLE PARKING

Adopted as an Alaska
Standard Plan by: *Kenneth J. Fisher*
Kenneth J. Fisher, P.E.
Chief Engineer

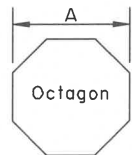
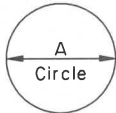
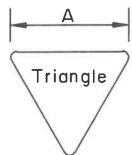
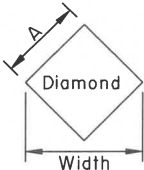
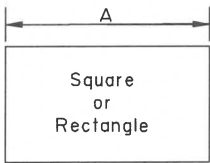
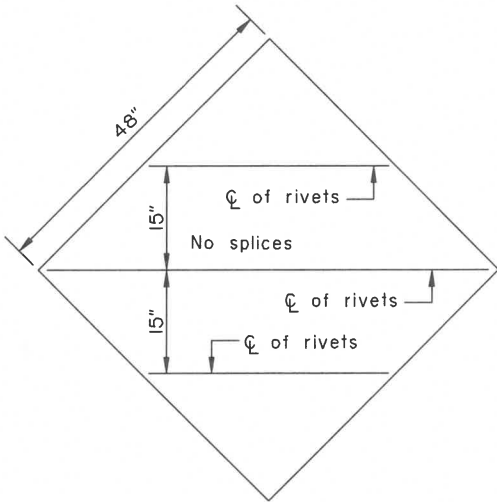
Adoption Date: 02/08/2019

Last Code and Stds. Review
By: Date:

Next Code and Standards Review date: 02/08/2029

GENERAL NOTES

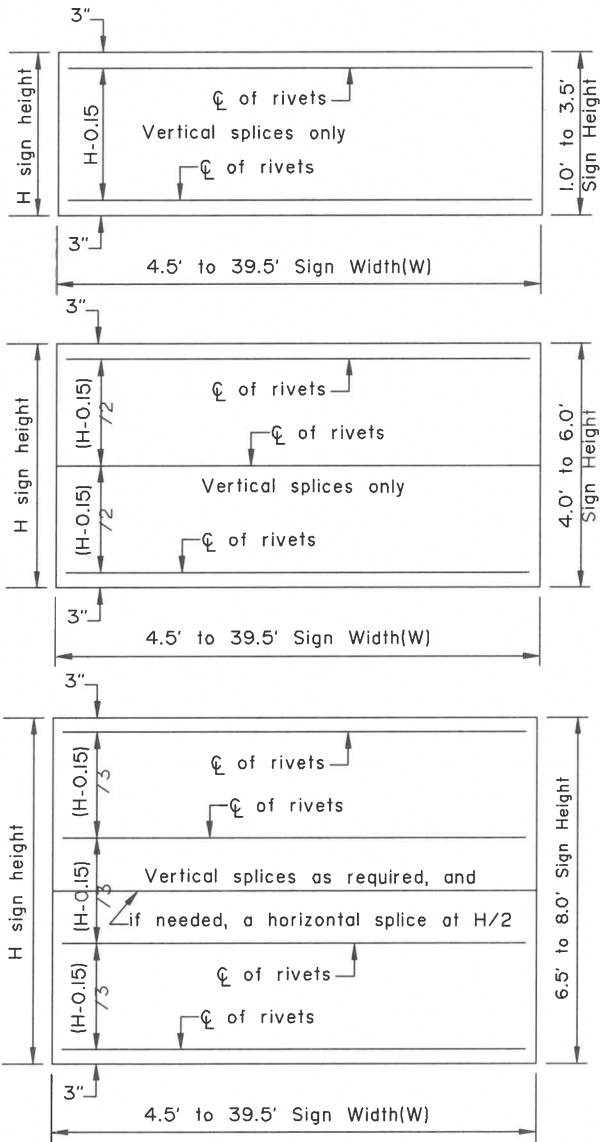
1. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
2. Fabricate all signs from 0.125" thick aluminum sheeting.
3. Sign fabricators may use alternates to the zee shaped framing member with approval of the engineer, if the frame manufacturer certifies their design equals or exceeds the strength of the zee shaped design.
4. Install one piece wind framing members on all signs up to 23.5' wide. Use one splice in each wind frame on all signs wider than 23.5'. Locate splices at least 18" from all posts and panel edges. Stagger splices in adjacent framing members at least 8.0' apart.
5. Attach wind framing members with rivets or with an engineer approved, double sided, high strength, adhesive tape. Clean and handle sheeting and framing members and apply tape in accordance with the tape manufacturer's written instructions. Install two rivets in both ends of each framing member.
6. Use 3/16" diameter rivets conforming to aluminum alloy 6061-T6 for cold driven rivets, or aluminum alloy 6061-T43 for hot driven rivets.
7. Sign fabricators may use sign panels extruded with integral framing with approval of the engineer, if the manufacturer certifies their design equals or exceeds the strength of the 0.125" thick panel with framing attached to it.
8. Frame all signs taller than 8.0' with five wind framing members located (H-0.15)/4 spaces. If needed, make a horizontal splice at the middle wind frame.
9. Do not use round pipes for sign supports.



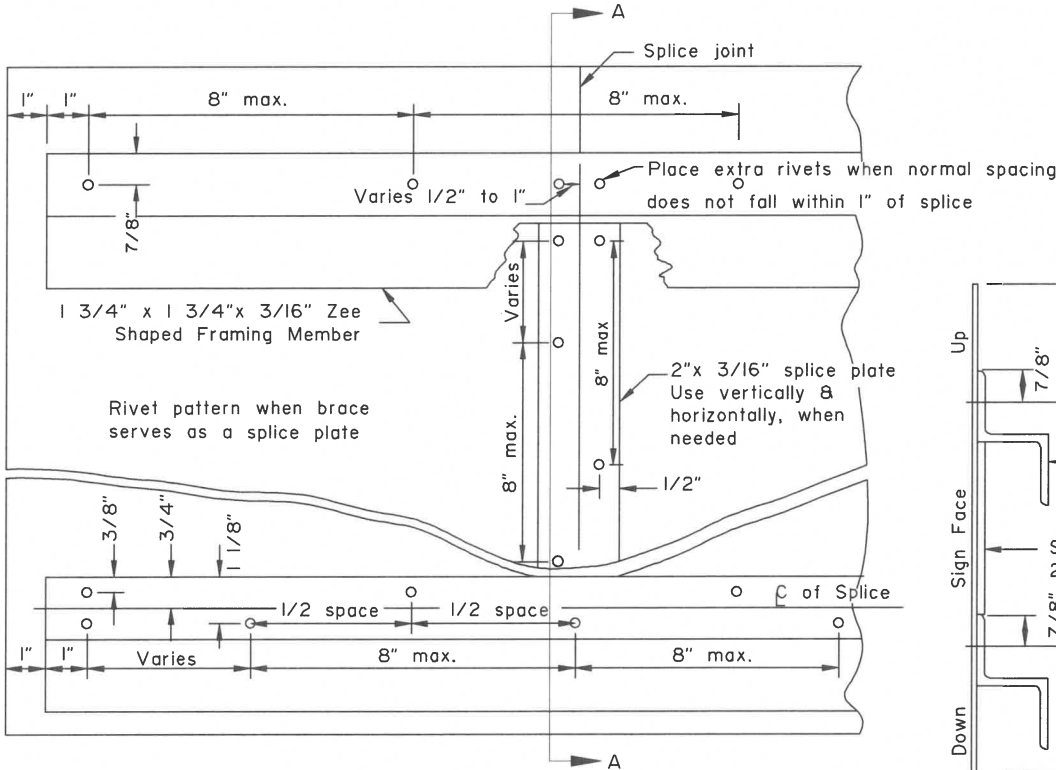
Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

Install wind framing on all signs that exceed the dimensions listed.

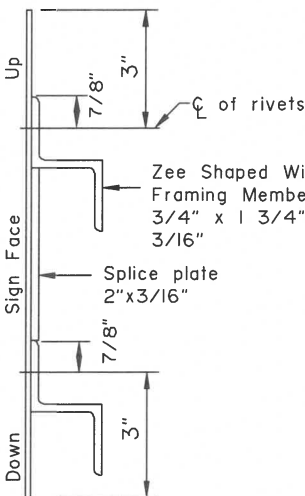
LIGHT SIGNS



WIND FRAMING
LOCATIONS



RIVET DETAIL FOR ZEE SHAPED
WIND FRAMING & SPLICE PLATE



SECTION A-A

State of Alaska DOT&PF
ALASKA STANDARD PLAN
SIGN FRAMING

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

Adoption Date: 7/17/2020

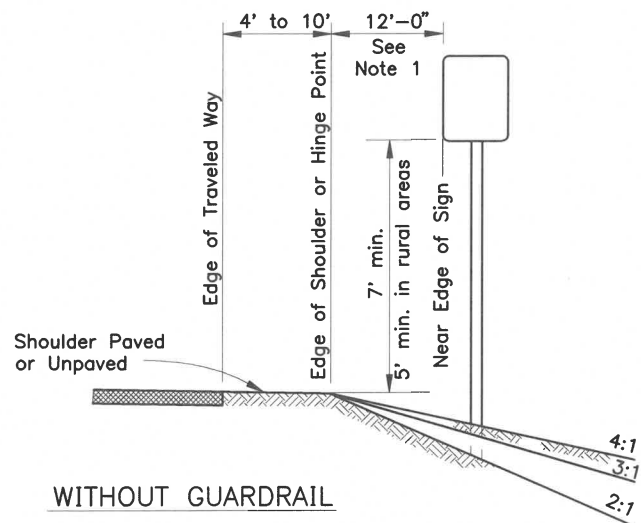
Last Code and Sds. Review
By: WTH Date: 7/8/2020

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

Note: Drawing not to scale

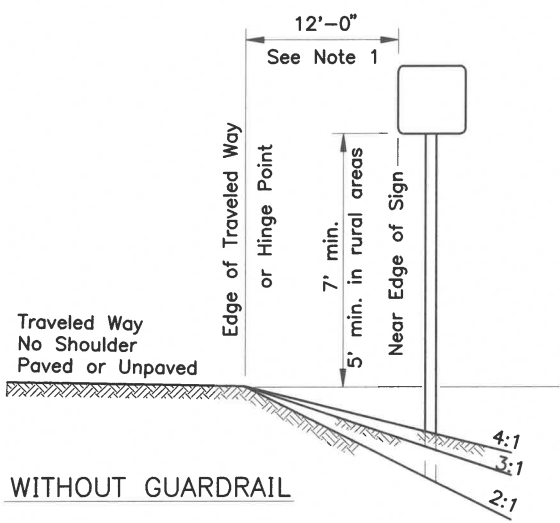
GENERAL NOTES

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.



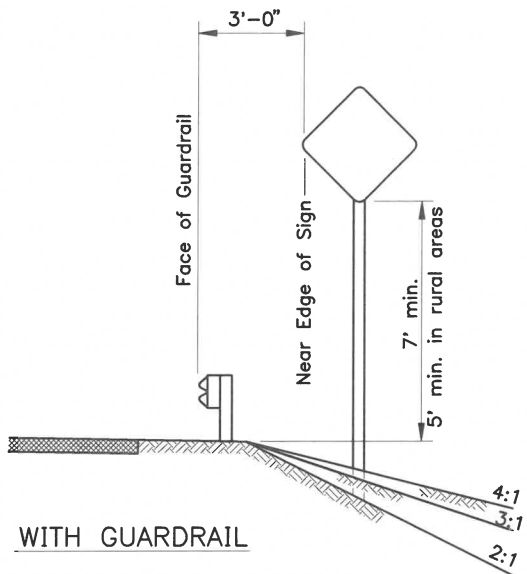
WITHOUT GUARDRAIL

SUBGRADES OVER 28', ALL SLOPES



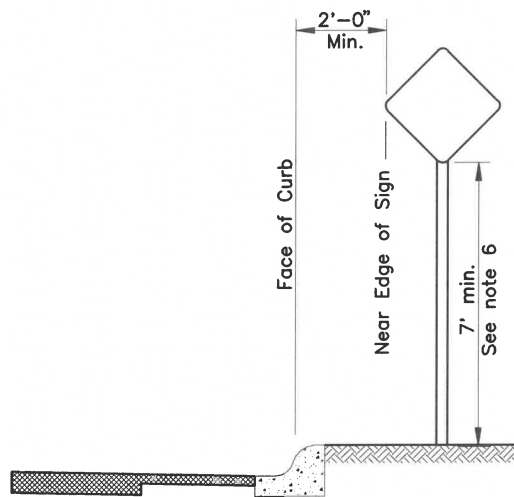
WITHOUT GUARDRAIL

SUBGRADES 24' TO 28', ALL SLOPES

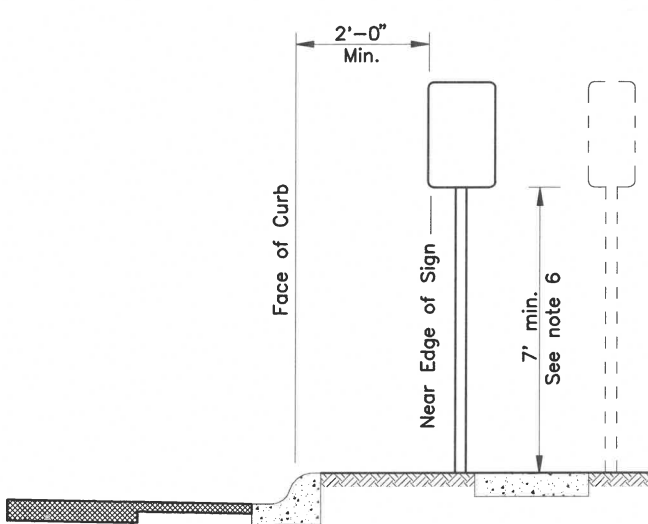


WITH GUARDRAIL

ALL SUBGRADES, ALL SLOPES

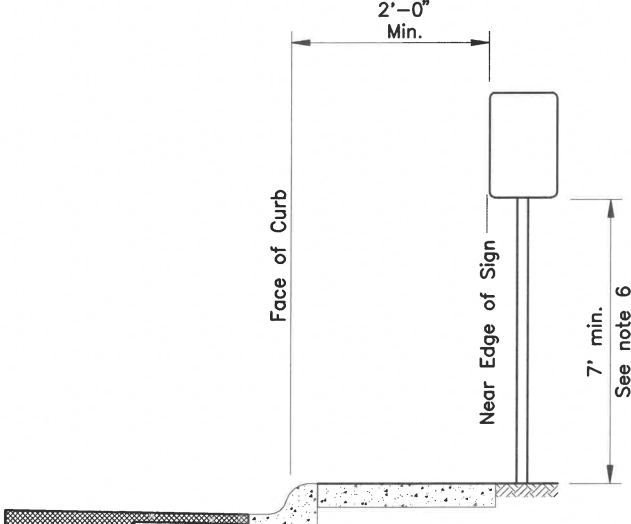


CURB WITHOUT SIDEWALK

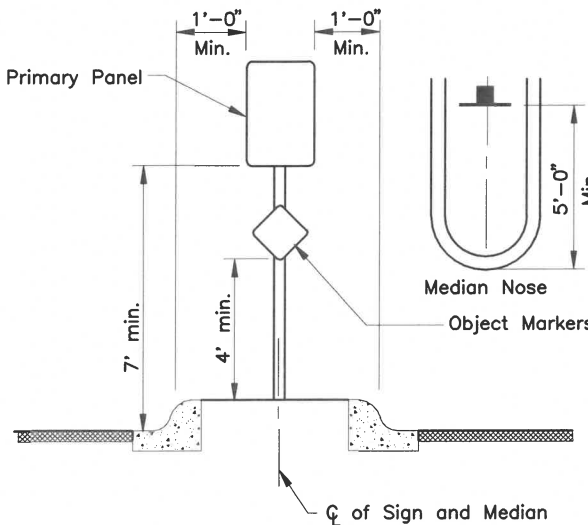


CURB WITH PARKWAY AND SIDEWALK

(If R/W width permits, signs should be placed behind sidewalk.)

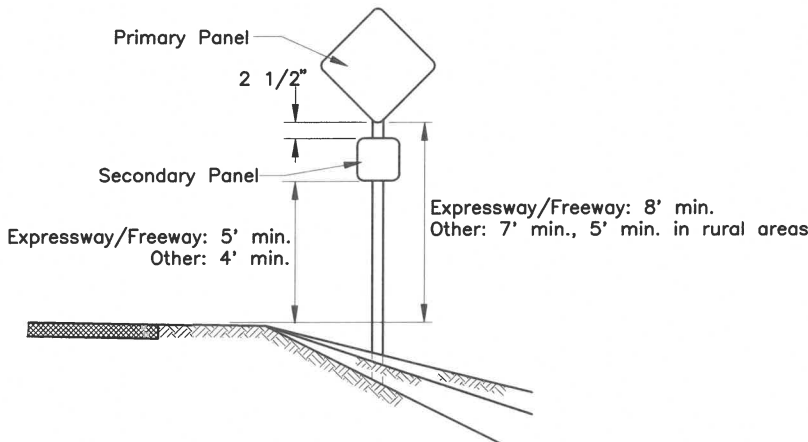


CURB WITH SIDEWALK WITHOUT PARKWAY



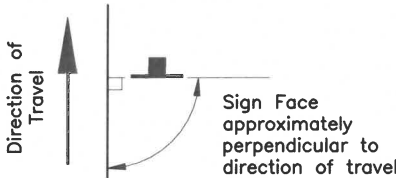
RAISED MEDIANS

Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT

ALL TWO PANEL MOUNTING



SIGN POSITIONING

State of Alaska DOT&PF
ALASKA STANDARD PLAN

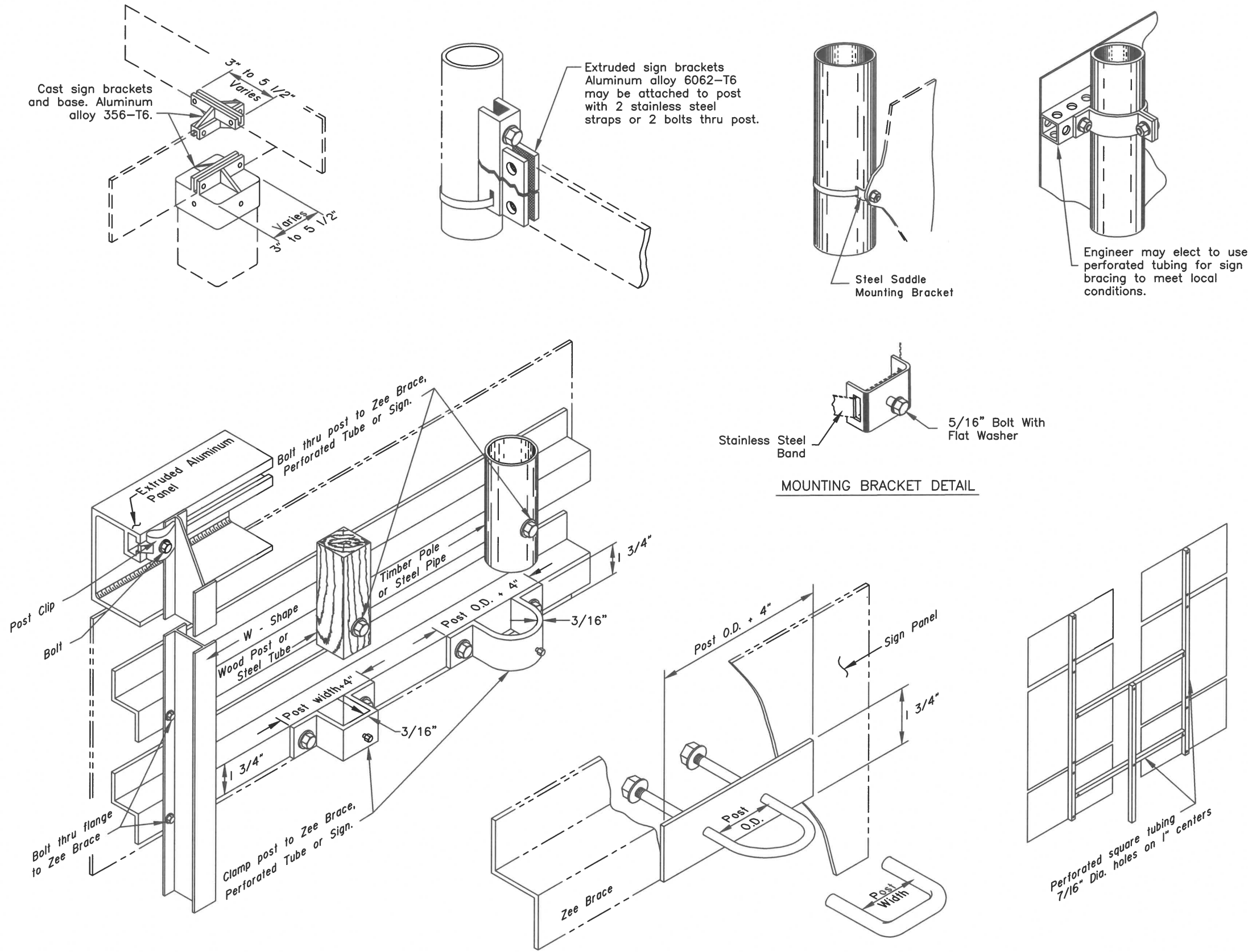
POST MOUNTED SIGN
OFFSET AND HEIGHT

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, zees and braces mounted to the posts with 5/16" bolts, nuts and washers.
8. Furnish all aluminum nuts, bolts and washers with anodized finish.

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 Sds. Review
By: LRG Date: 07/30/2021

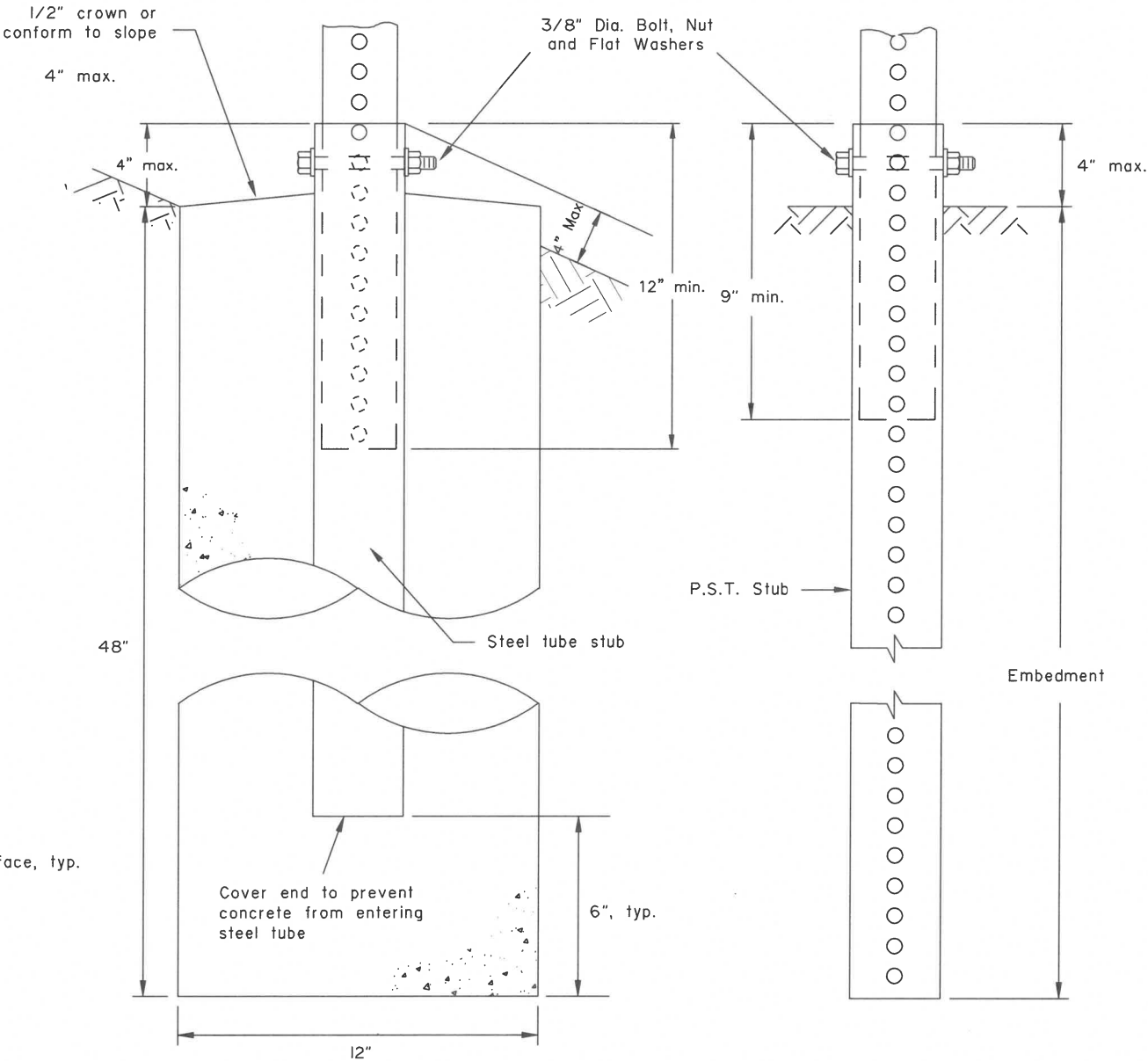
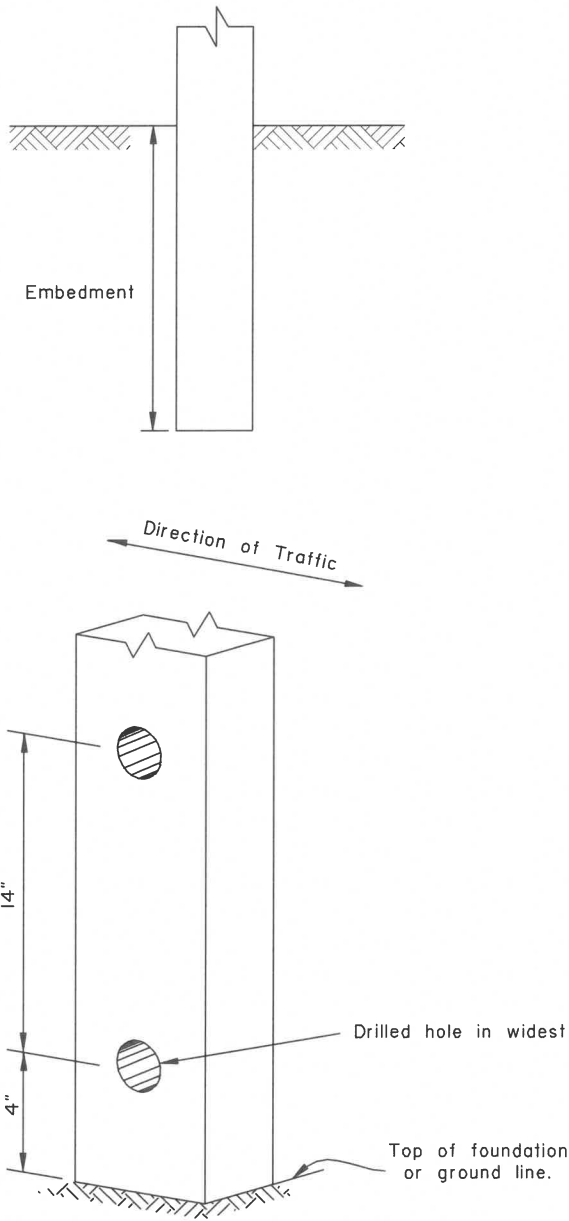
Next Code and Standards Review date: 07/30/2031

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.



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