

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

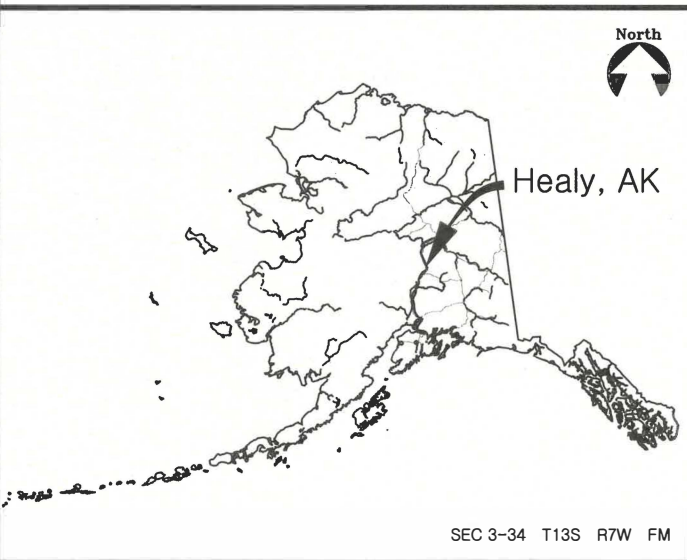
ANTLER RIDGE TRAILHEAD
 FACILITY IMPROVEMENTS

PROJECT NO.
 91882-1

IN COOPERATION WITH FHWA - WESTERN FEDERAL LANDS DIVISION AND DENALI BOROUGH



Vicinity Map



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The following Division of Parks & Outdoor Rec. standard drawings apply to this project: S-10B
 The following D.O.T.(Highways) standard drawings apply to this project: S-00.12, S-05.02, S-30.03

SEC 3-34 T13S R7W FM

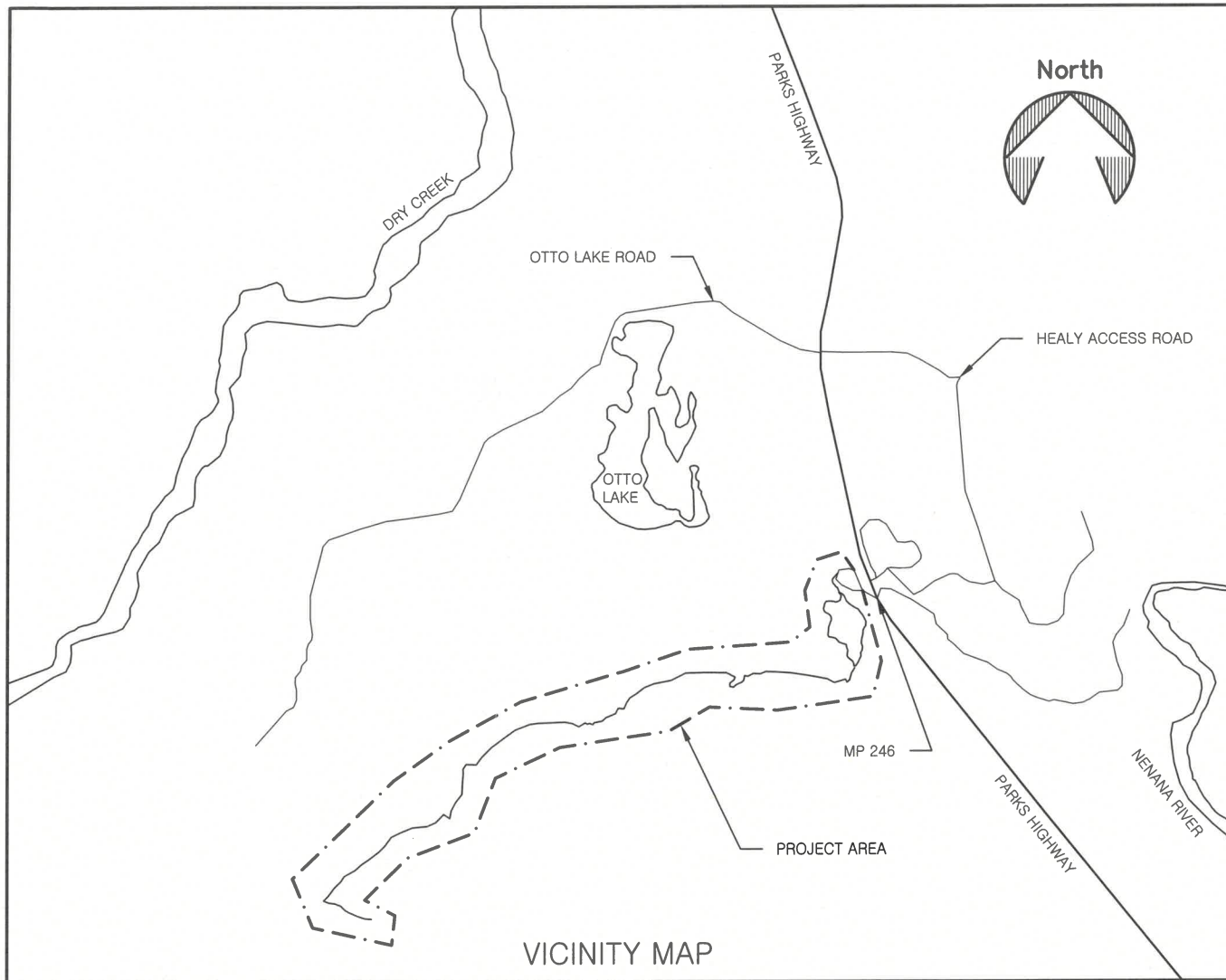
Plans developed by:
STATE OF ALASKA
 Department of Natural Resources
 Division of Parks & Outdoor Recreation
 550 W 7th Ave. Suite 1340, Anchorage, AK 99501

Recommended:

R. Miranda 3/25/26
 Rys Miranda, P.E. Date
 Chief, Design and Construction

Approved:

Stephanie Ford 3/25/26
 Stephanie Ford Date
 Development Director, Denali Borough



ESTIMATE OF QUANTITIES - BASIC BID			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
622.2016.0000	INTERPRETIVE KIOSK, TYPE B	EACH	1
622.2020.000A	TRAIL SIGN, TYPE A	EACH	3
622.2020.000B	TRAIL SIGN, TYPE B	EACH	4
622.2020.000C	TRAIL SIGN, TYPE C	EACH	1
622.2040.0000	TRAIL PRESCRIPTION	L.S.	ALL REQ'D
622.2040.0002	TRAIL CONSTRUCTION, CLASS 2	STATION	80
622.2040.0003	TRAIL CONSTRUCTION, CLASS 3	STATION	50
622.2040.0005	TRAIL CONSTRUCTION, CLASS 5	STATION	35
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
641.0005.0000	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL BY DIRECTIVE	C.S.	ALL REQ'D
641.0006.0000	ESCP PRICE ADJUSTMENT	C.S.	ALL REQ'D
642.0000.0000	AS-BUILT SURVEY	L.S.	ALL REQ'D
643.0000.0000	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D
647.0000.0000	BACKHOE, 4WD, 1CY BUCKET, 75-HP MINIMUM	HOUR	16

ESTIMATING FACTORS	
ITEM DESCRIPTION	FACTOR
BORROW, TYPE A	145 LBS/C.F.
AGGREGATE BASE COURSE, GRADING D-1	148 LBS/C.F.

LEGEND

EXISTING	PROPOSED	
		EDGE OF VEGETATION
		EDGE OF WATER
		MAJOR CONTOUR LINE
		MINOR CONTOUR LINE
		EDGE OF GRAVEL TRAIL
		OVERHEAD ELECTRIC UTILITY
		LIMIT OF FILL SLOPE
		LIMIT OF CUT SLOPE
		SURVEY CONTROL MONUMENT
		SIGN

ABBREVIATIONS AND SYMBOLS

∅	DIAMETER
ε	CENTERLINE
ACM	ARTICULATED CONCRETE MAT
C.S.	CONTINGENT SUM
DNR	DEPARTMENT OF NATURAL RESOURCES
E	EAST
ELEV.	ELEVATION
F.G.	FINISH GRADE
HWY	HIGHWAY
INV	INVERT
L.S.	LUMP SUM
LB/LBS	POUND/POUNDS
M.E	MATCH EXISTING
MP	MILEPOST
N	NORTH
NE	NORTHEAST
NO.	NUMBER
NW	NORTHWEST
OHE	OVERHEAD ELECTRIC LINE
PIP	PROTECT IN PLACE
REQ'D	REQUIRED
SE	SOUTHEAST
S.A.	SQUARE FOOT
FM	FAIRBANKS MERIDIAN
SW	SOUTHWEST
S.Y.	SQUARE YARD
TYP	TYPICAL
W	WEST
PUC	PUBLIC USE CABIN



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

ANTLER RIDGE TRAILHEAD
 FACILITY IMPROVEMENTS
 PROJECT No. 91882-1

ESTIMATE OF QUANTITIES, LEGEND,
 ESTIMATING FACTORS & VICINITY MAP

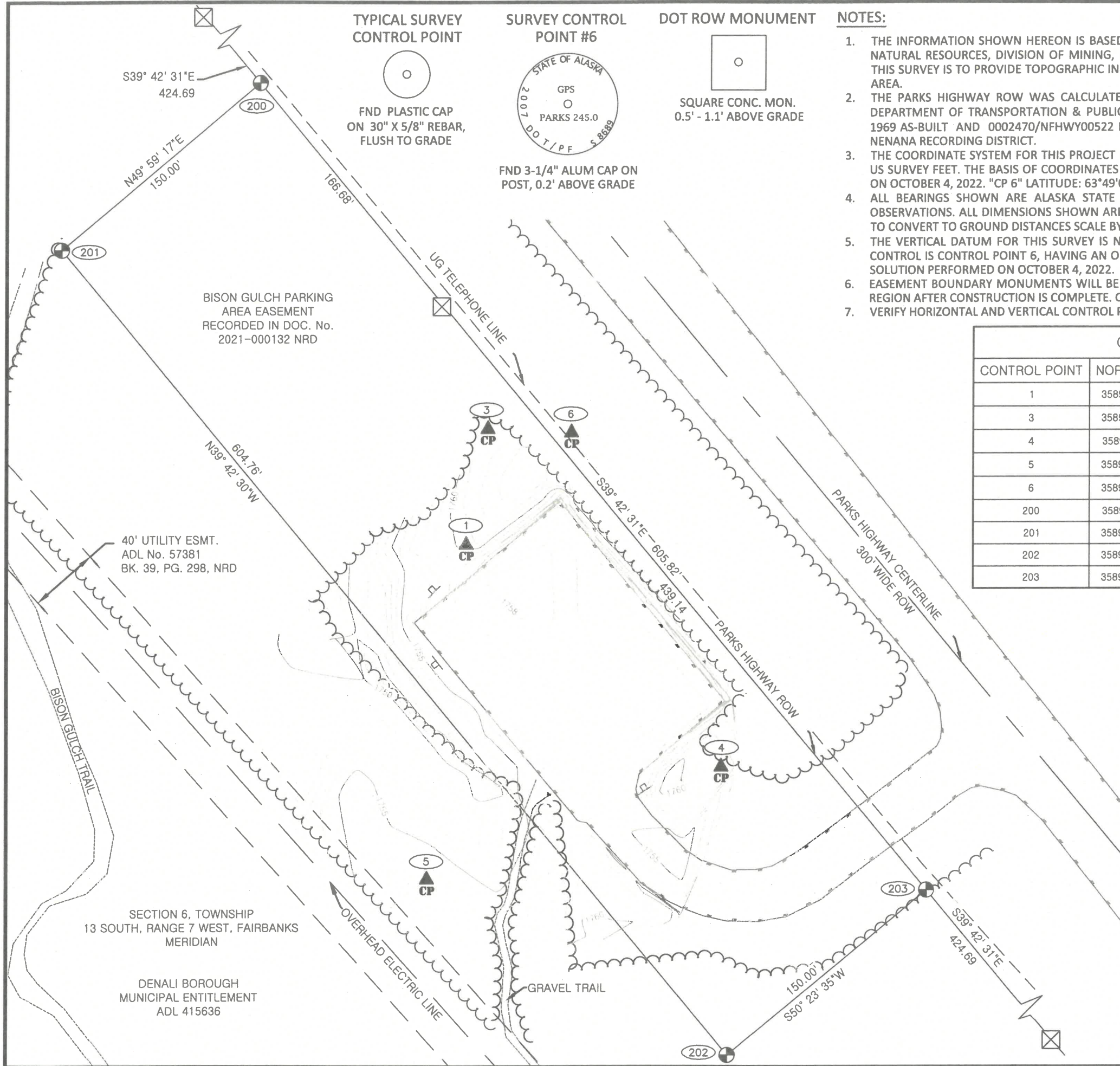


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 DRAWN: DKM
 REVIEWED: KRW
 DATE: 12/31/2025

SHEET

2

OF 12 SHEETS

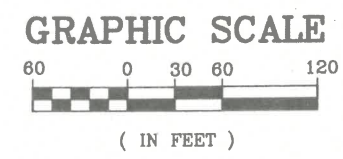
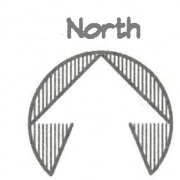


COORDINATE POINT TABLE

CONTROL POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	3589488.42	1804515.49	1760.67	5/8" REBAR W/CAP
3	3589555.07	1804527.87	1761.32	5/8" REBAR W/CAP
4	3589360.01	1804663.31	1759.92	5/8" REBAR W/CAP
5	3589294.84	1804492.80	1758.69	5/8" REBAR W/CAP
6	3589553.10	1804576.21	1761.34	3-1/4" A. CAP DOT MON
200	3589754.81	1804395.31		DOT MON TO BE SET
201	3589658.37	1804280.42		DOT MON TO BE SET
202	3589193.12	1804666.79		DOT MON TO BE SET
203	3589288.75	1804782.35		DOT MON TO BE SET

LEGEND

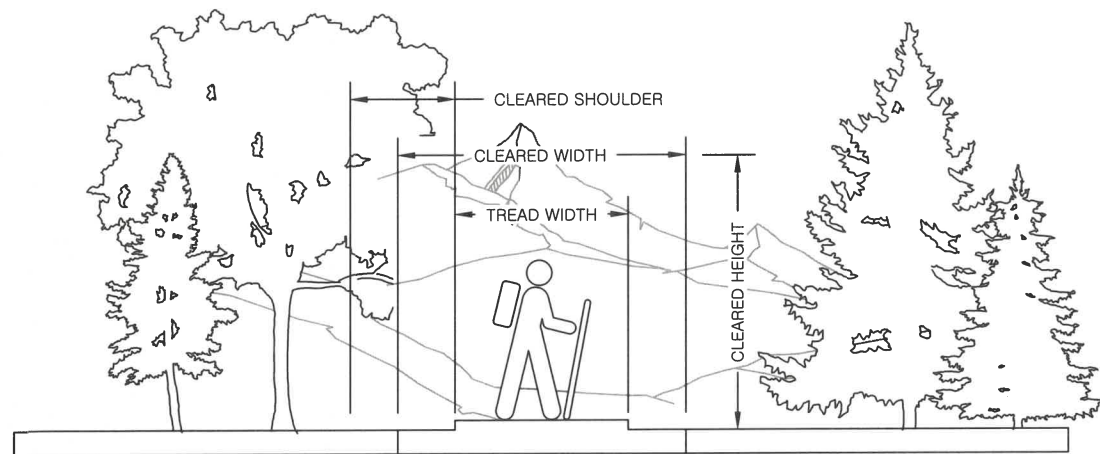
- ### POINT NUMBER
- ▲ CP SURVEY CONTROL POINT
- ⊠ DOT CONC. ROW MONUMENT 6"x 6"
- PRIMARY MONUMENT TO BE SET. POSITIONS CALCULATED FROM PLAT No. 2022-4 NRD
- ~ EDGE OF VEGETATION
- NRD NENANA RECORDING DISTRICT
- ⊠ SIGN



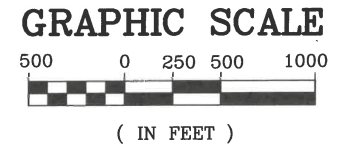
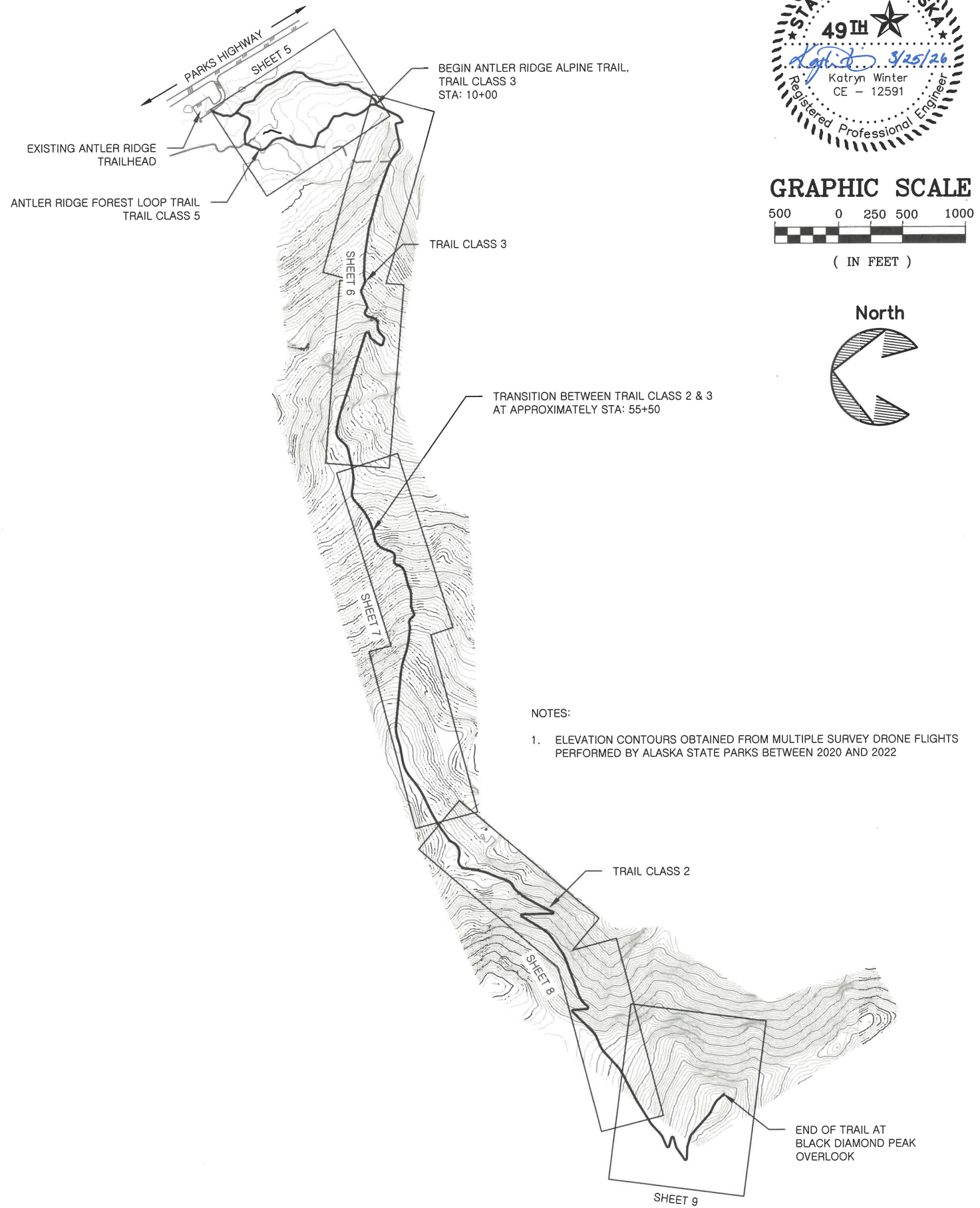
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 PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION
 550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731
 ANTLER-BISON TRAILHEAD
 FACILITY IMPROVEMENTS
 PROJECT No. 91882-1
 SURVEY CONTROL


 PREPARED: DKM
 DRAWN: KJB
 REVIEWED: RG & DC
 DATE: 06/26/2025
 SHEET
3
 OF 12 SHEETS

TRAIL CLASSIFICATION & DESIGN PARAMETERS						
AMENDED SECTION 3 OF AK STATE PARKS TRAIL MANAGEMENT HANDBOOK		TRAIL CLASS 1	TRAIL CLASS 2	TRAIL CLASS 3	TRAIL CLASS 4	TRAIL CLASS 5
DESIGN TREAD WIDTH	SINGLE LANE	0" - 12"	6" - 18"	18" - 36"	24" - 60"	48" - 72"
	DOUBLE LANE	36"	36"	36" - 60"	48" - 72"	72" - 120"
	STRUCTURES	18"	18"	18"	36"	48"
DESIGN SURFACE	SURFACE TYPE	NATIVE, UNGRADED	NATIVE, LIMITED GRADING	NATIVE, SELECTED MATERIAL FOR STABILIZATION AND GRADING	NATIVE, IMPROVED SECTIONS OF SELECTED MATERIAL	D-1, ADA COMPLIANT HARDENED SURFACE W/ ROUTINE GRADING
	ROUGHNESS	MAY BE CONTINUOUSLY ROUGH	MAY BE CONTINUOUSLY ROUGH	INTERMITTENTLY ROUGH	MINOR ROUGHNESS	UNIFORM, FIRM, AND STABLE
	PROTRUSIONS	≤ 24"	≤ 6"	≤ 3"	≤ 3"	NO PROTRUSIONS
	OBSTACLES, MAX HEIGHT	24"	14"	10"	8"	NO OBSTACLES
DESIGN GRADE	TARGET GRADE	5% - 25%	5% - 18%	3% - 12%	2% - 10%	2% - 5%
	SHORT PITCH MAXIMUM	40%	35%	25%	15%	5% - 10%
	MAXIMUM PITCH DENSITY	20% - 40%	20% - 30%	10% - 20%	5% - 20%	≤ 5%
DESIGN CROSS SLOPE	TARGET CROSS SLOPE	NATURAL CROSS SLOPE	5% - 20%	5% - 10%	3% - 7%	3% - 4%
	MAXIMUM CROSS SLOPE	NATURAL CROSS SLOPE	25%	15%	10%	5%
DESIGN CLEARANCE	HEIGHT	6'	6' - 7'	7' - 8'	8' - 10'	8' - 10'
	WIDTH	≥ 24"*	24" - 48"*	36" - 60"	48" - 72"	60" - 72"
	SHOULDER CLEARANCE	3" - 6"	6" - 12"	12" - 18"	12" - 18"	12" - 24"
NOTES	1. IF A CLIMBING TURN IS REQ'D TO MEET PRESCRIPTIVE GRADES, FOLLOW DETAIL (1/12) ON SHEET 12 2. ENGINEER SHALL APPROVE OF TRAIL PRESCRIPTION PRIOR TO TRAIL CONSTRUCTION 3. ANY DEVIATIONS TO ALLOWABLE GRADES FOR TRAIL CLASSIFICATION REQUIRE APPROVAL BY THE ENGINEER 4. TRAIL CLASS 5 MUST CONFORM TO ALL APPLICABLE ADA STANDARDS AND GUIDELINES * SOME VEGETATION MAY ENCROACH INTO CLEARING AREA					



1
4 CLEARANCE DEFINITIONS
DETAIL



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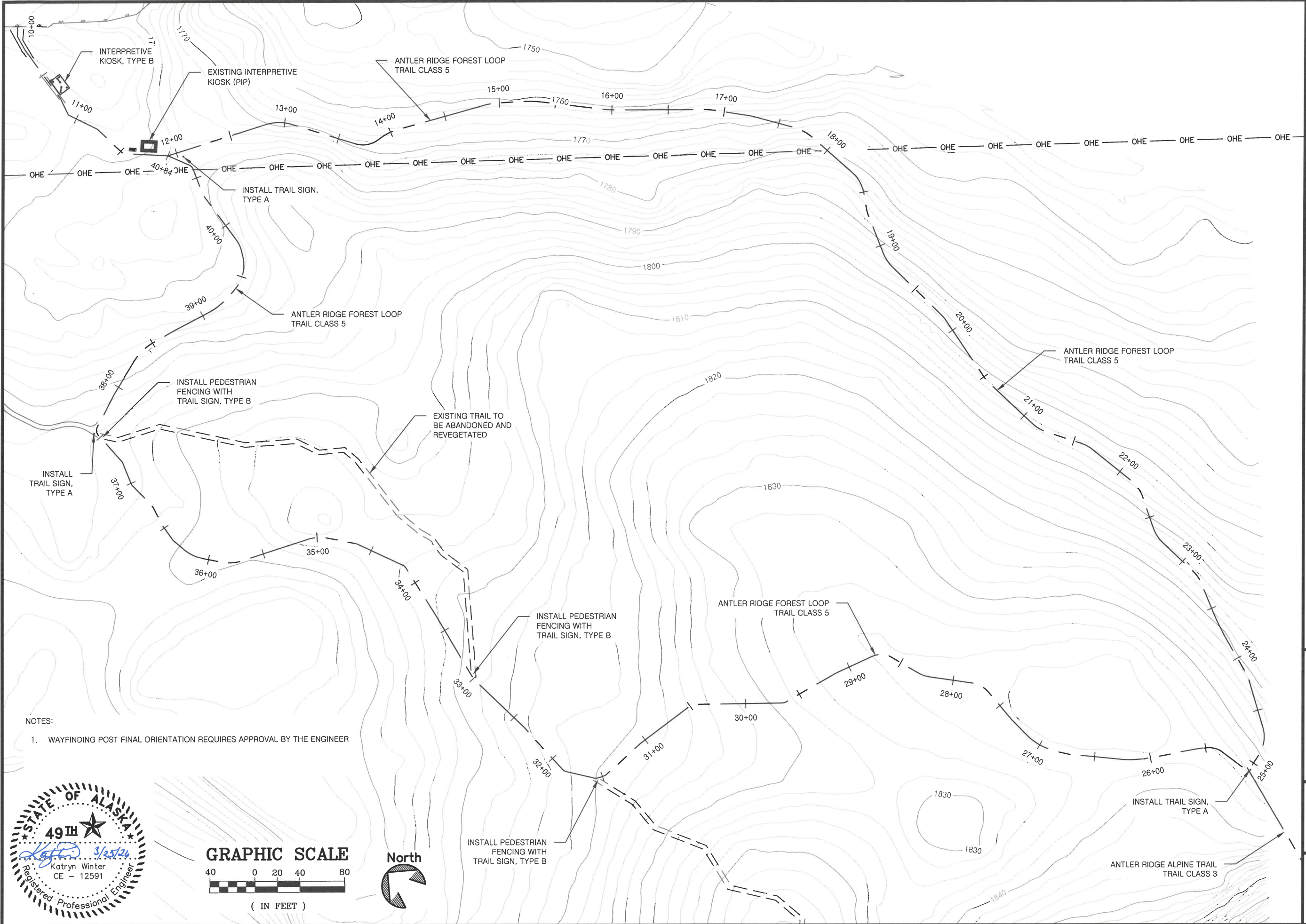
ANTLER RIDGE TRAILHEAD
 FACILITY IMPROVEMENTS
 PROJECT No. 91882-1

TRAIL PLAN OVERVIEW

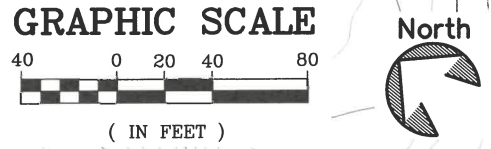


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SHEET
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NOTES:
 1. WAYFINDING POST FINAL ORIENTATION REQUIRES APPROVAL BY THE ENGINEER



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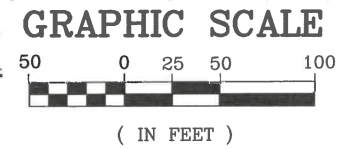
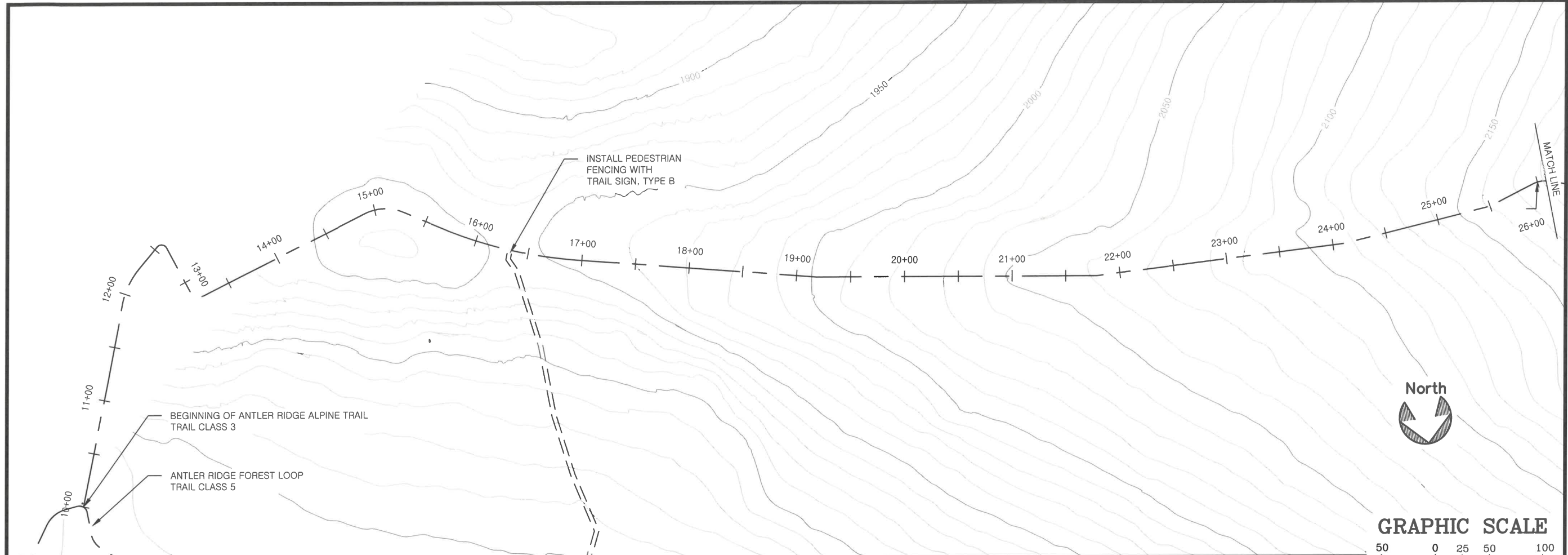
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ANTLER RIDGE FOREST LOOP
 TRAIL PLAN



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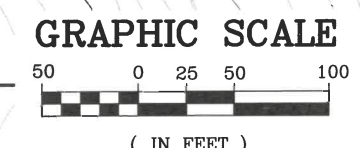
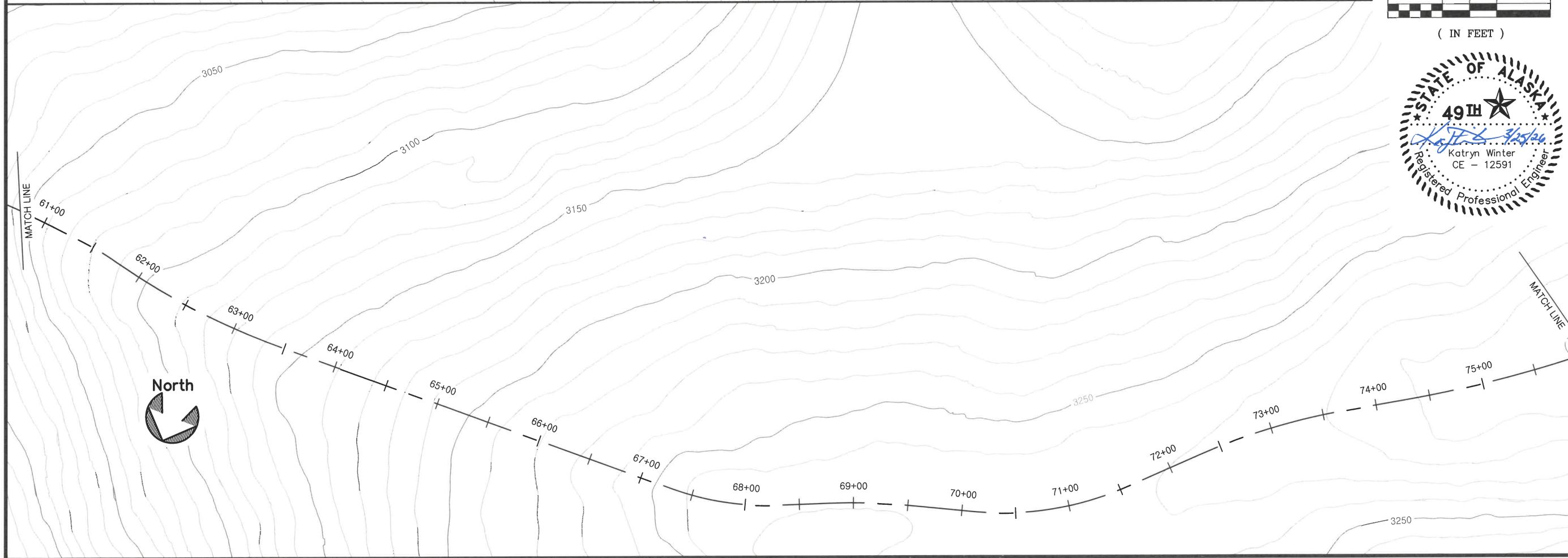
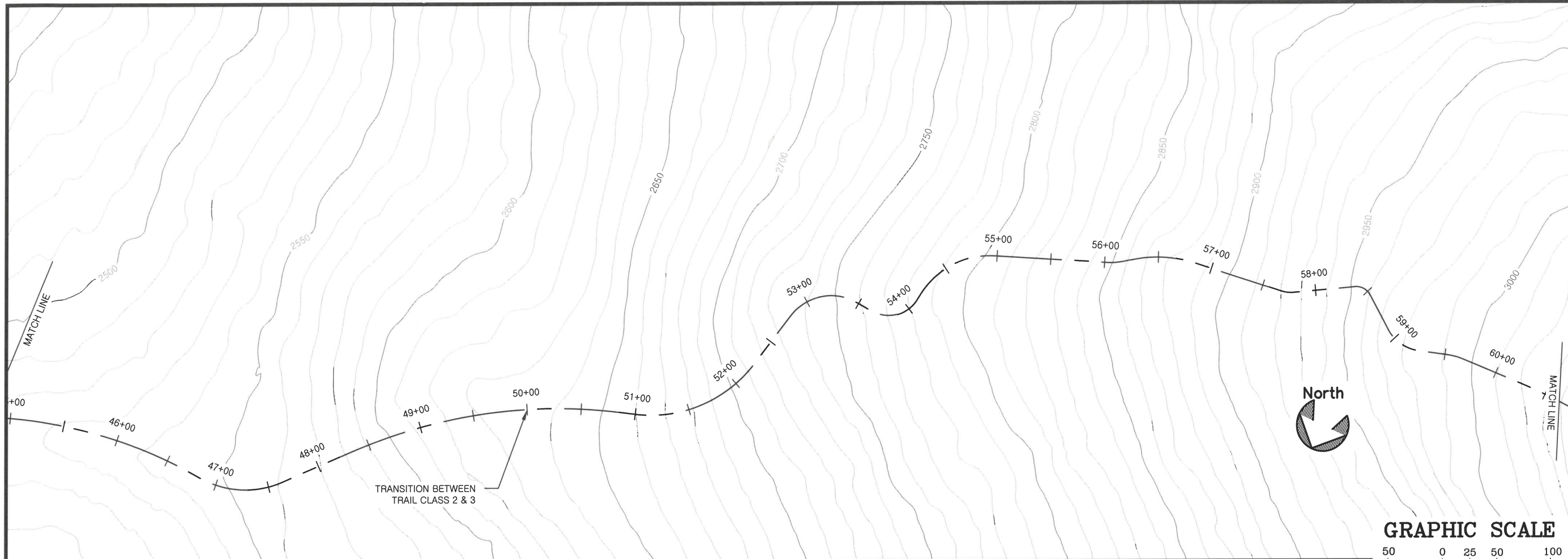


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 DATE: 12/31/2025

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ANTLER RIDGE TRAILHEAD
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ANTLER RIDGE ALPINE TRAIL PLAN
 STATION 10+00 TO 45+00



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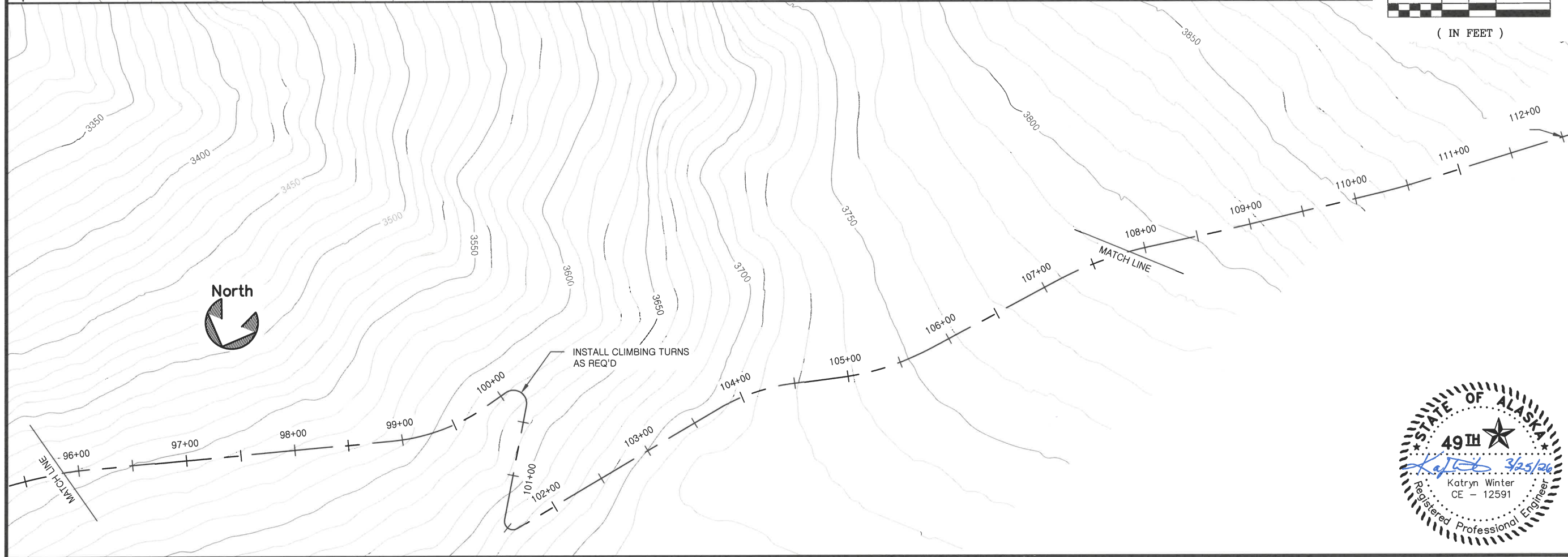
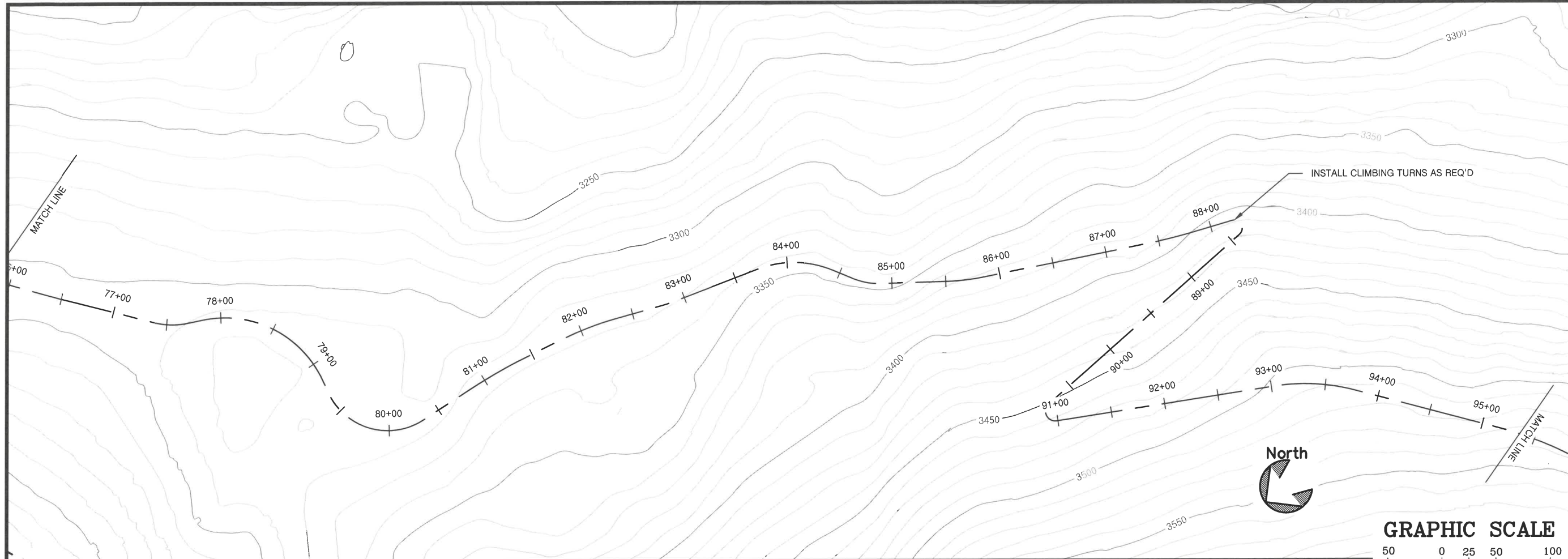


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 DRAWN: DKM
 REVIEWED: KRW
 DATE: 12/31/2025

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ANTLER RIDGE ALPINE TRAIL PLAN
 STATION 45+00 TO 76+00

ANTLER RIDGE TRAILHEAD
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ANTLER RIDGE ALPINE TRAIL PLAN
 STATION 76+00 TO 112+00

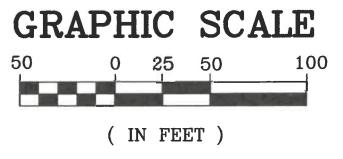
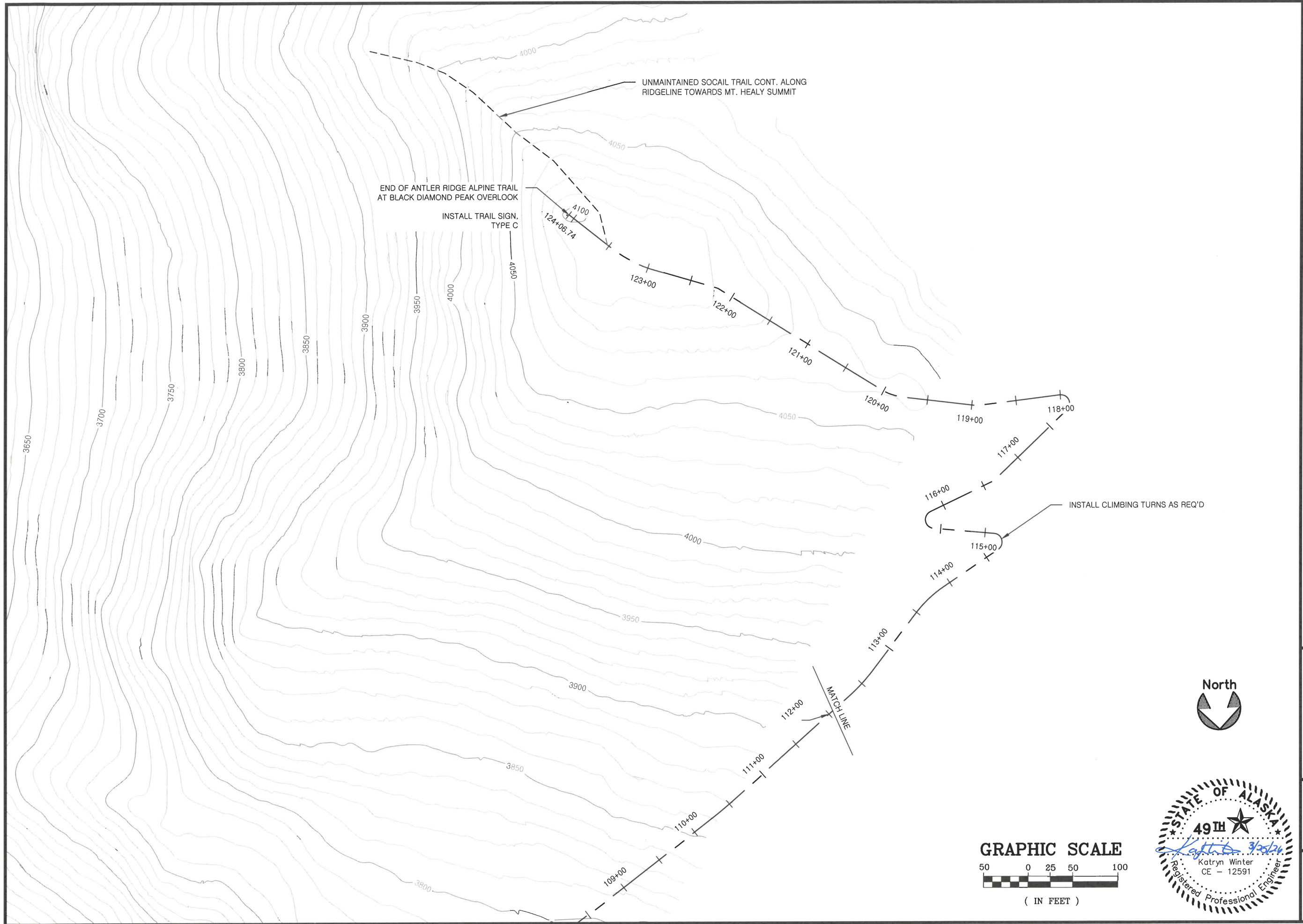
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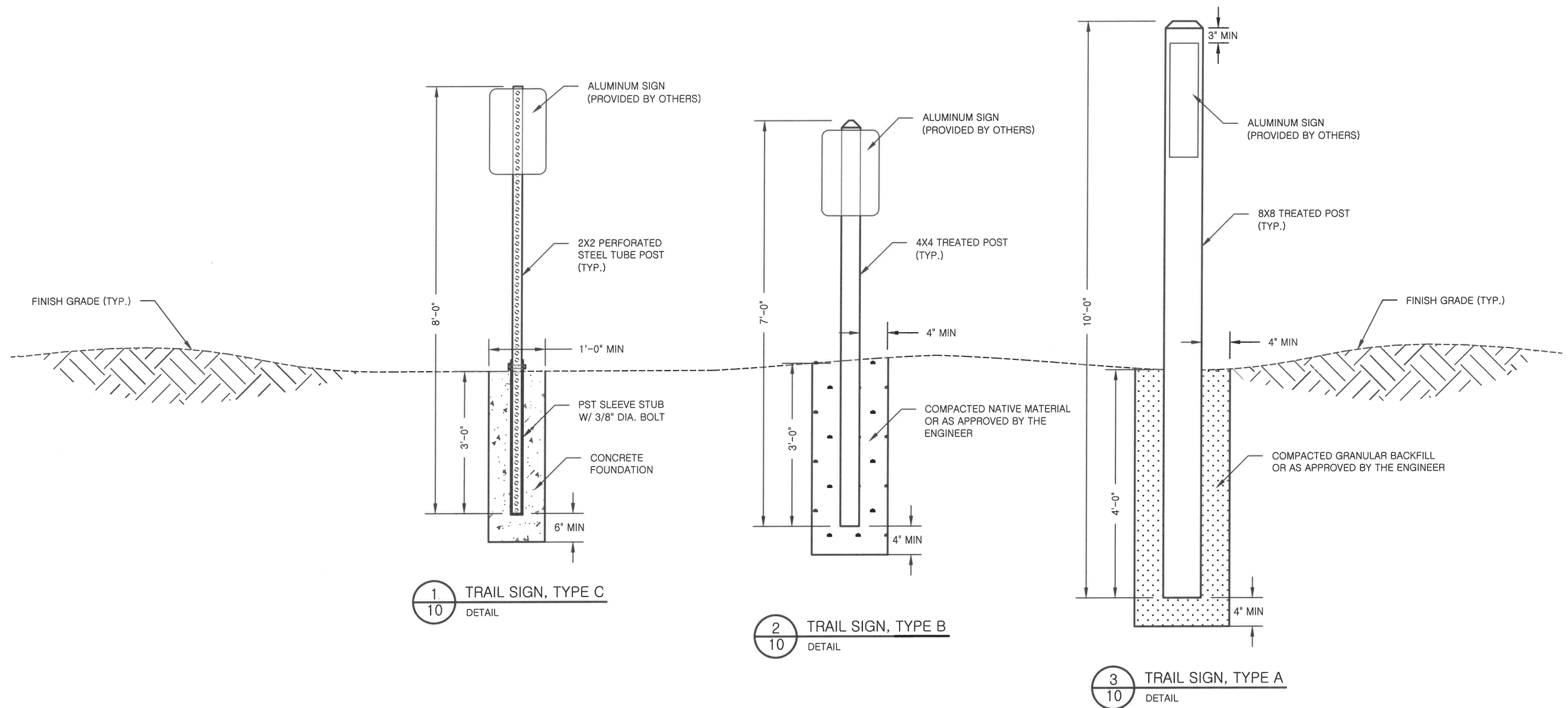
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ANTLER RIDGE ALPINE TRAIL PLAN
 STATION 112+00 TO 125+00

ALASKA STATE PARKS

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 DATE: 12/31/2025

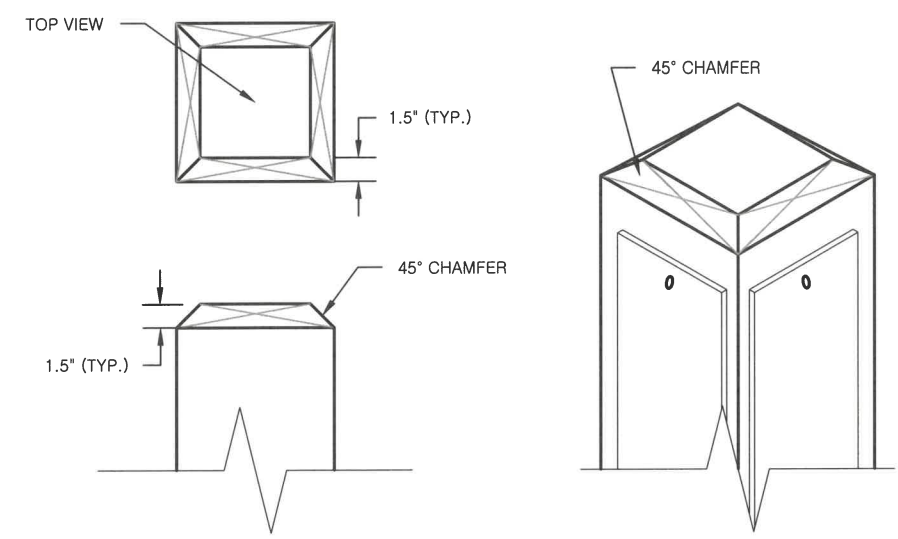
SHEET
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1 TRAIL SIGN, TYPE C
10 DETAIL

2 TRAIL SIGN, TYPE B
10 DETAIL

3 TRAIL SIGN, TYPE A
10 DETAIL



4 CHAMFER CUTS
10 DETAIL

NOTES:

1. TRAIL SIGN, TYPE A, SHALL CONSIST OF A NOMINAL 8x8 GROUND-CONTACT RATED PRESSURE TREATED WOODEN POST, EMBEDDED 4- FEET MINIMUM BELOW FINAL GRADE. TRAIL SIGN, TYPE A, SHALL HAVE A COMPACTED GRANULAR BACKFILL BASE OR AS APPROVED BY THE ENGINEER. THE TOP OF THE POST SHALL BE CHAMFERED AS SHOWN IN DETAIL (4/10)
2. TRAIL SIGN, TYPE B, SHALL CONSIST OF A NOMINAL 4x4 GROUND-CONTACT RATED PRESSURE TREATED WOODEN POST, EMBEDDED 3- FEET MINIMUM BELOW FINAL GRADE. NATIVE MATERIAL USED AS BACKFILL MUST BE PROPERLY COMPACTED. THE TOP OF THE POST SHALL BE CHAMFERED AS SHOWN IN DETAIL (4/10)
3. TRAIL SIGN, TYPE C, SHALL CONSIST OF A 2"x2" PERFORATED STEEL TUBE (PST) POST, WITH 12 GA-0.105" WALL THICKNESS, AND A CONCRETE FOUNDATION WITH AN EMBEDDED SLEEVE. THE SLEEVE MUST REMAIN 2" MINIMUM ABOVE THE FINISHED CONCRETE, AND THE EMBEDDED END MUST BE COVERED TO KEEP THE SLEEVE CLEAR OF CONCRETE. THE CONCRETE FOUNDATION SHALL HAVE A CROWNED FINISH OR CONFORM TO THE NATURAL SLOPE
4. SEE SITE PLAN FOR APPROXIMATE SIGN LOCATIONS; THE ENGINEER WILL FIELD LOCATE FINAL SIGN LOCATIONS. FINAL SIGN LOCATIONS AND ORIENTATIONS ARE SUBJECT TO APPROVAL BY THE ENGINEER
5. ALL CUT ENDS ON WOODEN POSTS SHALL BE TREATED WITH WATERPROOFING SEALANT



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SIGN PLAN &
 WAYFINDING POST DETAIL

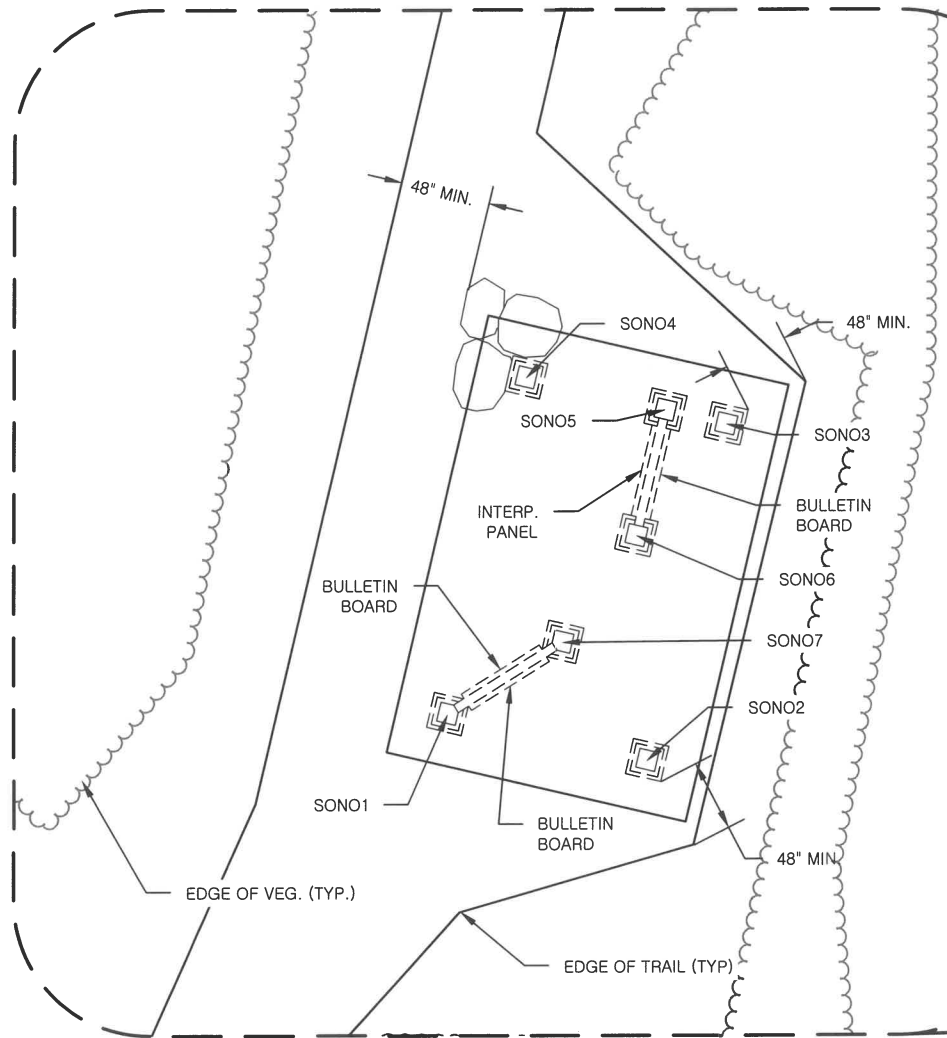


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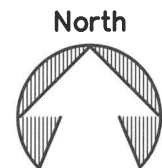
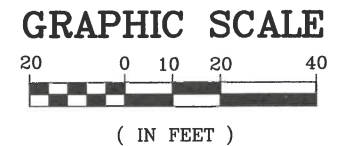
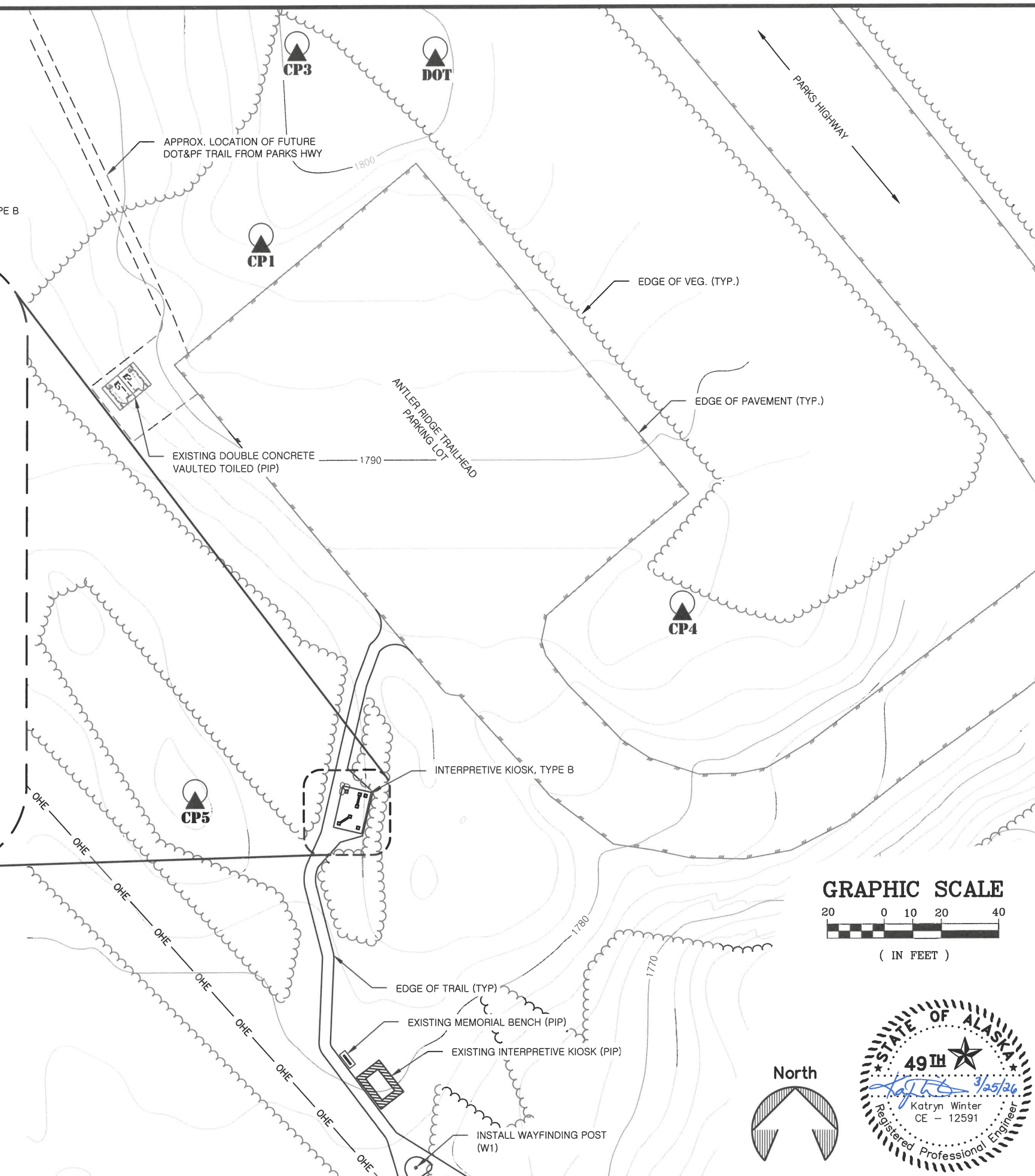
SHEET
10
 OF 12 SHEETS

NOTES:

1. CONSTRUCT INTERPRETIVE KIOSK, TYPE B, IN MIRROR ORIENTATION OF STANDARD DRAWING
2. TOPOGRAPHICAL CONTOURS DRAWN IN PLAN VIEW MAY NOT BE ACCURATE TO EXISTING CONDITIONS
3. CONTRACTOR SHALL VERIFY ELEVATION DATA WITH THE ENGINEER BEFORE INSTALLING INTERPRETIVE KIOSK, TYPE B
4. THE ENGINEER WILL DETERMINE FINAL ELEVATION OF ALL SONO TUBES



INTERP. KIOSK SONO TUBE POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
SONO1	3589283.36	1804542.96	1800.11	16" SONO TUBE
SONO2	3589281.85	1804549.45	1800.83	16" SONO TUBE
SONO3	3589292.72	1804551.98	1800.53	16" SONO TUBE
SONO4	3589294.23	1804545.48	1799.84	16" SONO TUBE
SONO5	3589293.18	1804550.03	1800.32	16" SONO TUBE
SONO6	3589289.12	1804549.09	1800.40	16" SONO TUBE
SONO7	3589285.68	1804546.68	1800.31	16" SONO TUBE



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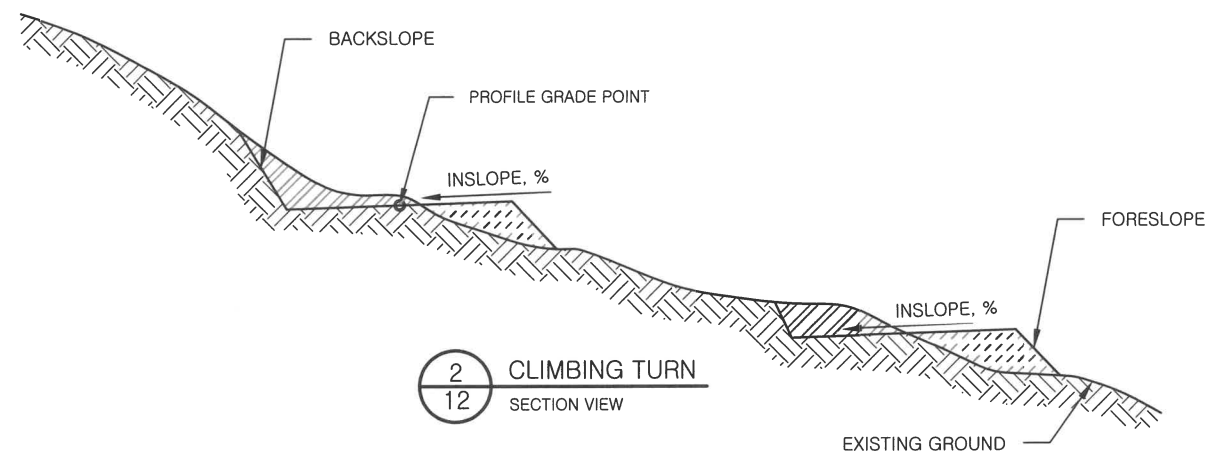
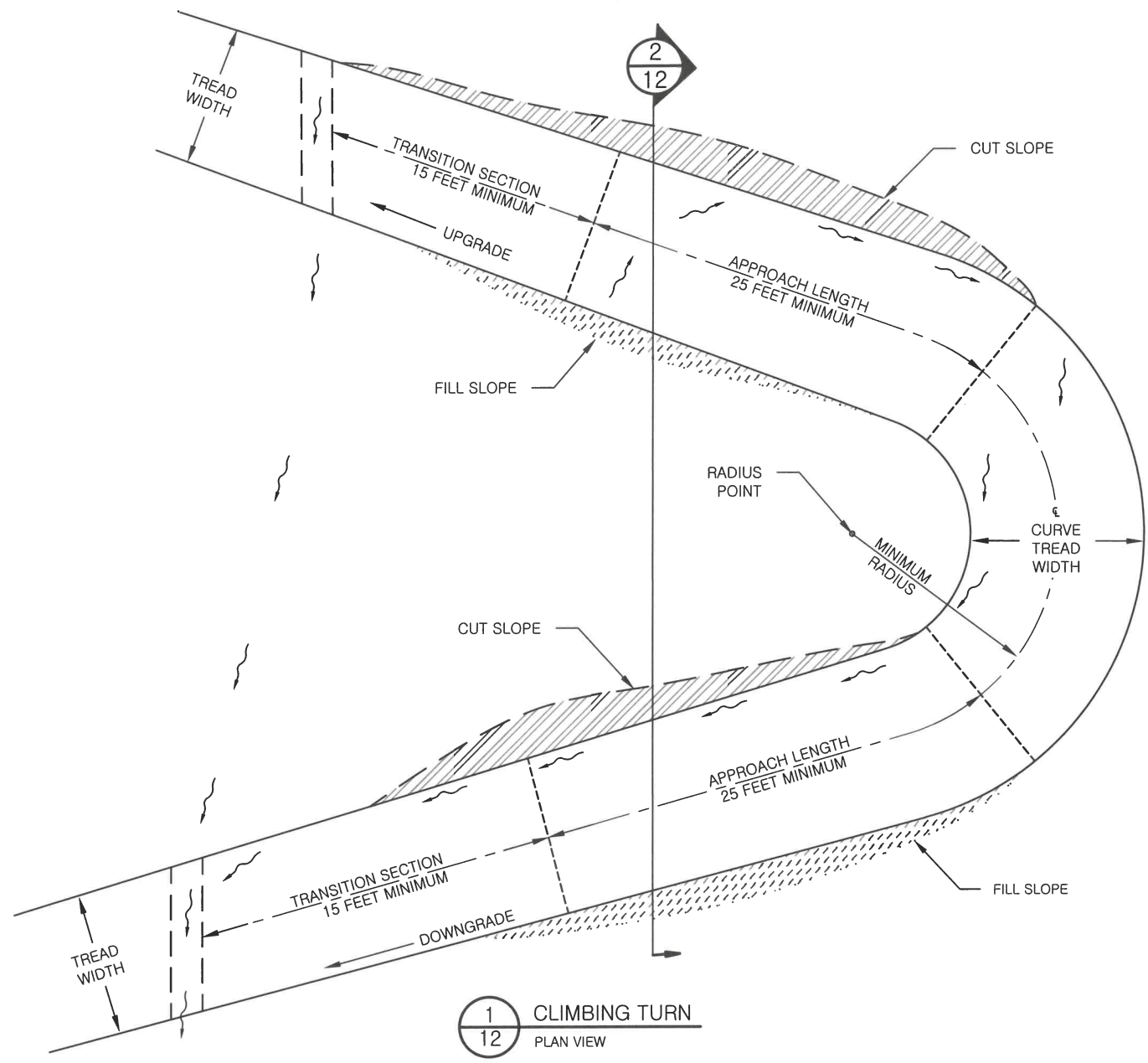
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INTERPRETIVE KIOSK OVERVIEW



PREPARED: DKM
 DRAWN: DKM
 REVIEWED: KRW
 DATE: 12/31/2025

SHEET
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 OF 12 SHEETS



NOTES:

1. RADIUS POINT AND CENTER LINE OF CLIMBING TURN SHALL BE STAKED ON THE GROUND
2. CONSTRUCT CONSTANT GRADE THROUGH BOTH APPROACH SECTIONS
3. $APPROACH LENGTH = \frac{SIDE\ SLOPE, (\%)\ x\ MIN.\ RADIUS, (FT.)}{GRADE\ THROUGH\ CURVE, (\%)} - \frac{\pi \times MIN.\ RADIUS, (FT.)}{2}$



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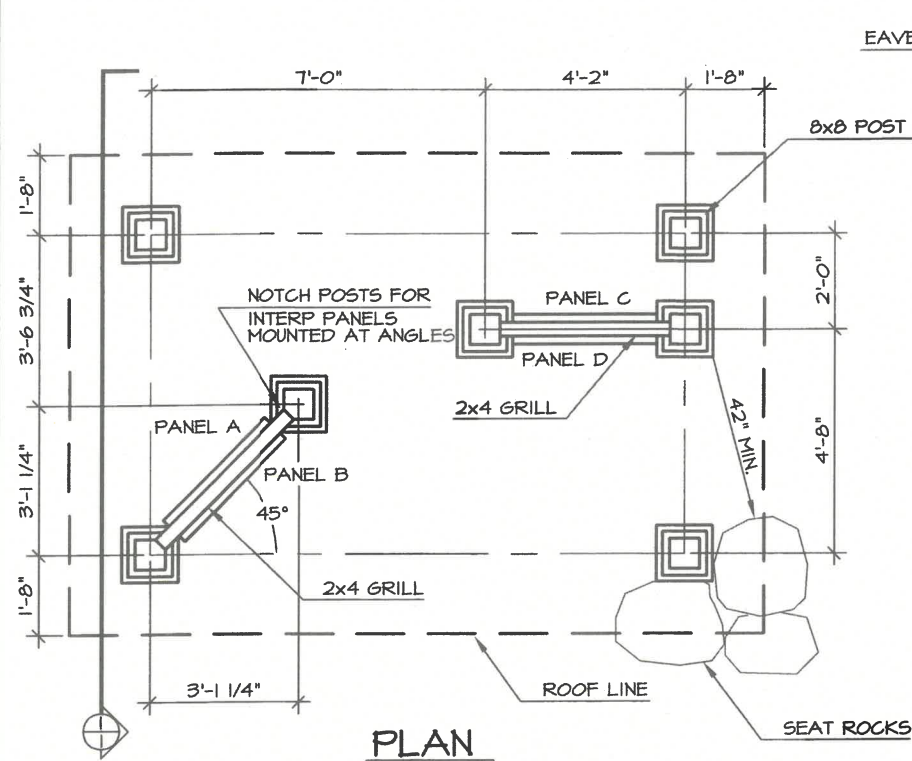
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CLIMBING TURN DETAIL

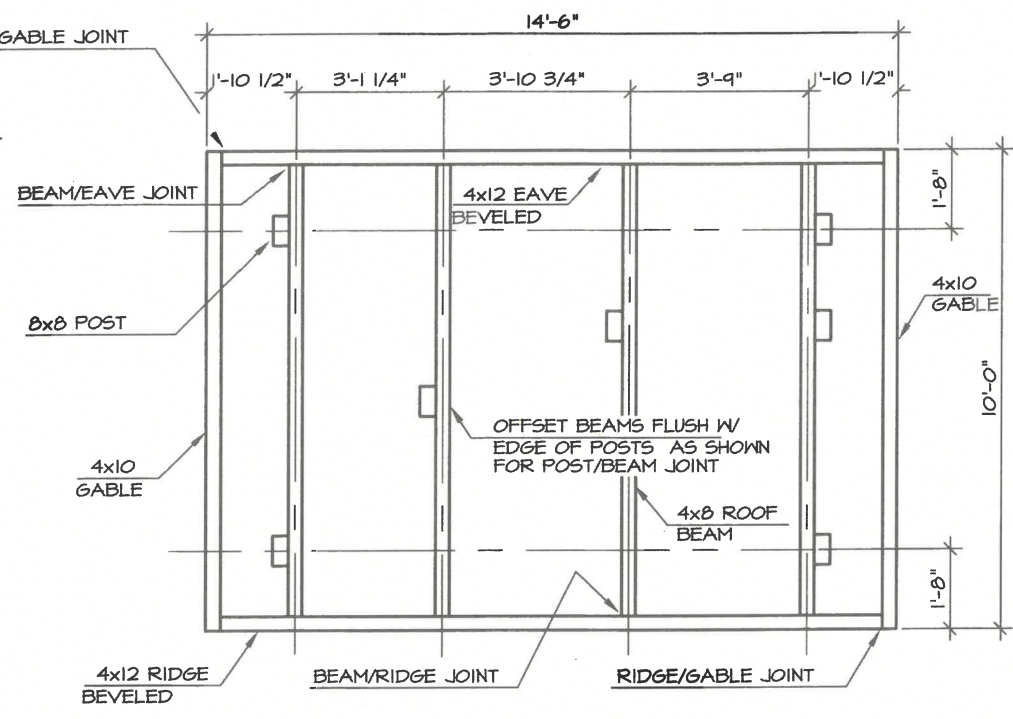


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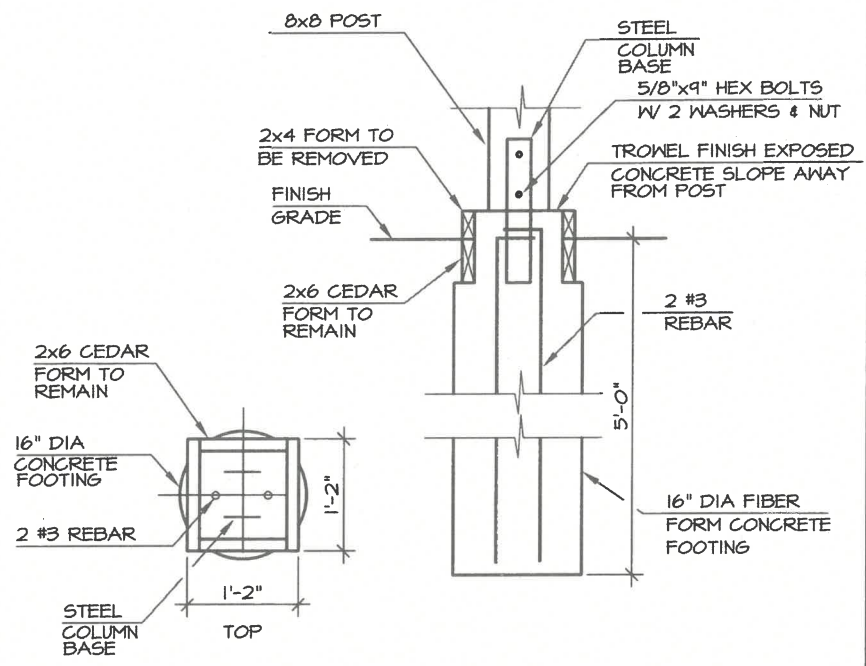
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 OF 12 SHEETS



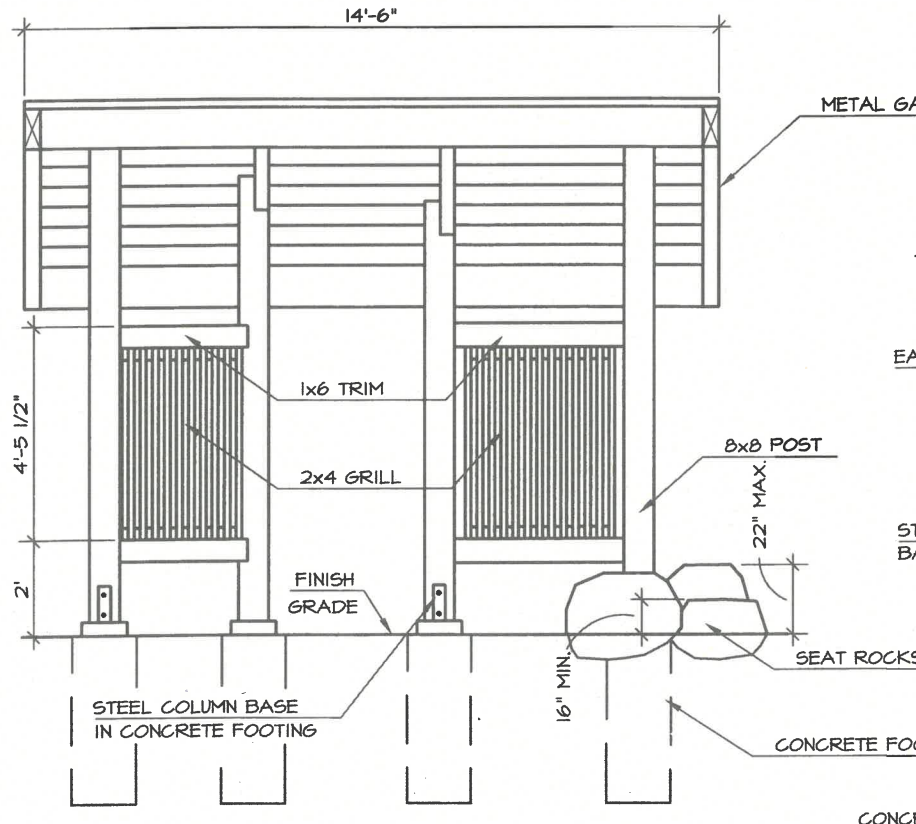
PLAN



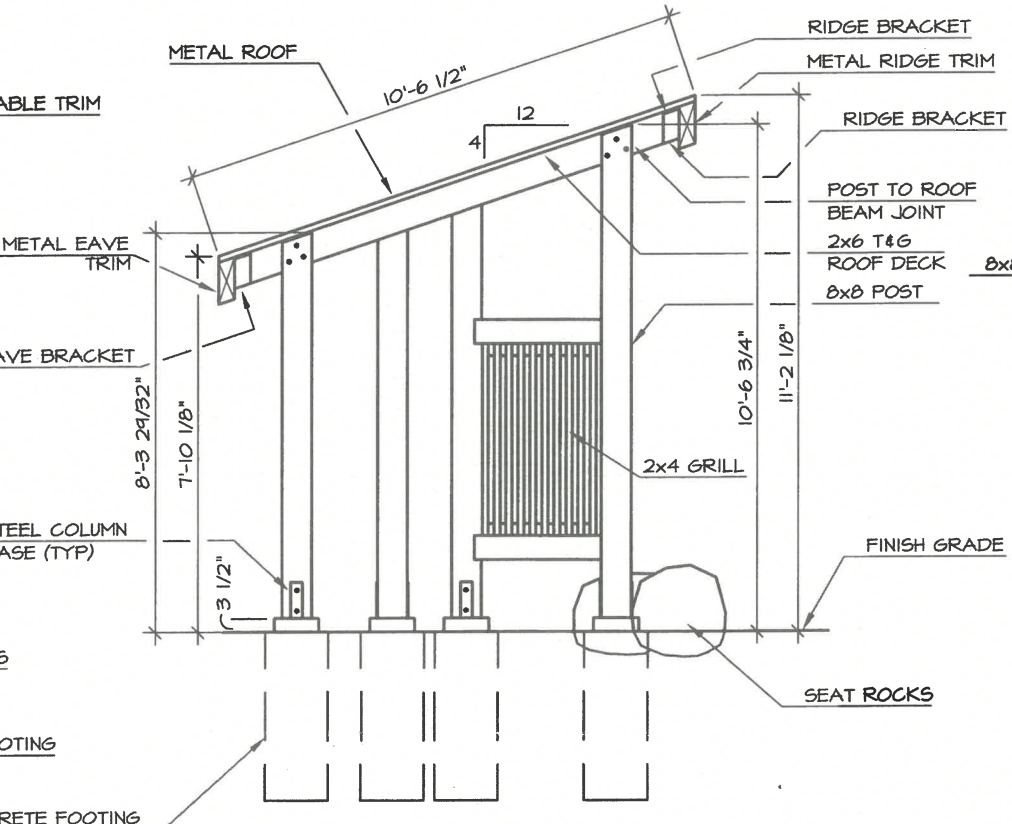
ROOF FRAMING PLAN



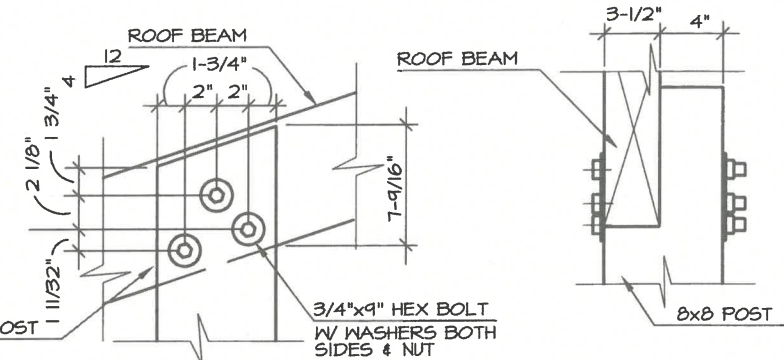
2 CONCRETE FOOTING



FRONT



1 TRANSVERSE SECTION



3 POST/ROOF BEAM JOINT

NOTE: OPPOSITE SIDE JOINT IS SIMILAR

NOTE: COUNTERBORE BOLTS IN ROOF BOARDS AS REQUIRED TO CLEAR METAL ROOF TRIM



NO.	REVISION	DATE	APPROVED
8	REPLACED STAMP	12/13	RBM
7	CHANGED STATE PARK LOGO	04/10	MPS
6	CHANGED TITLE BLOCK	12/07	MPS
5	REPLACED STAMP	3/04	MPS
4	CHANGED ACTUAL TIMBER SIZES TO NOMINAL	01/03	BSD
3	REPLACED STAMP	3/02	DH
2	CHANGED DRAWING NUMBER	12/97	BSD
1	ADDED DIMS FOR GRAPHICS	6/97	D. HAEG

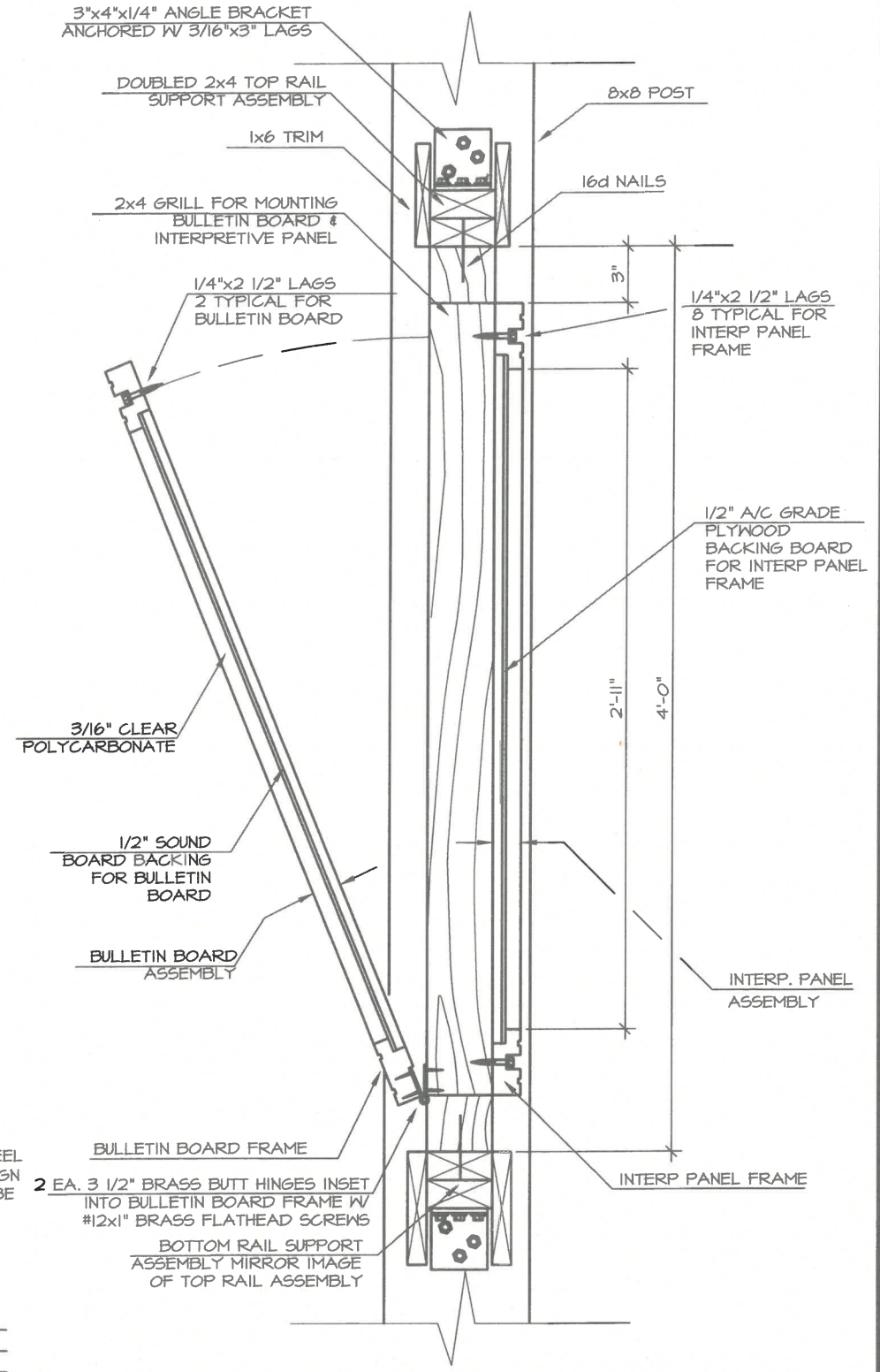
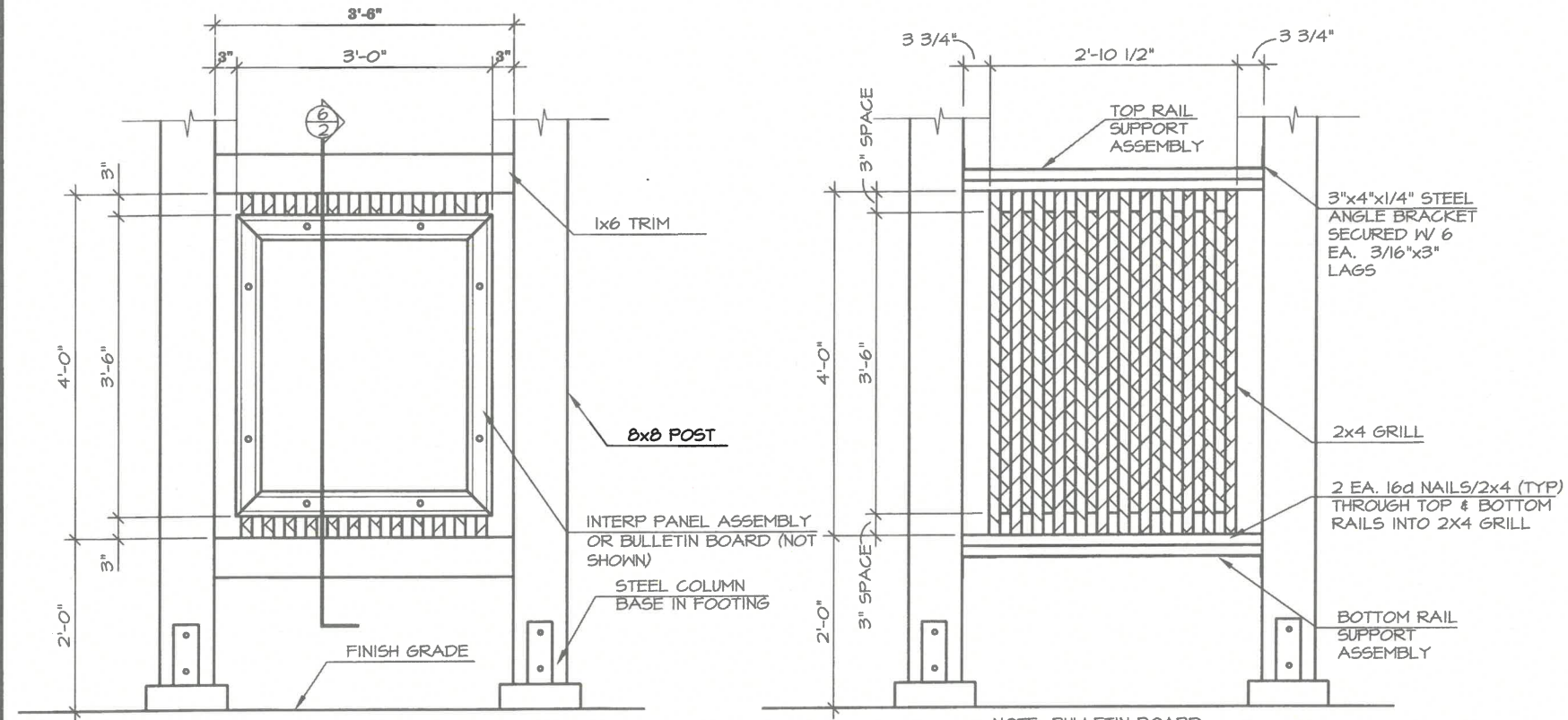




PREPARED: HL
 DRAWN: TLC
 REVIEWED: DH
 DATE: JUN 96

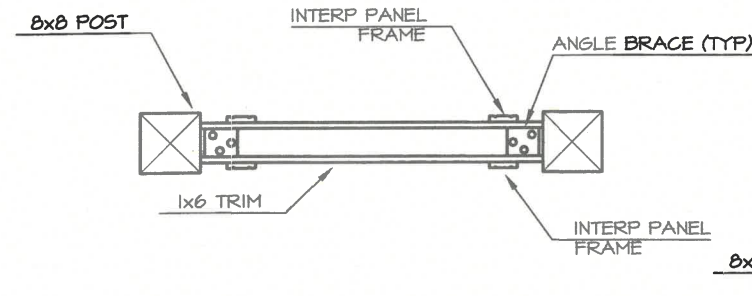
SHEET 2

S-10B
 OF 3 SHEETS

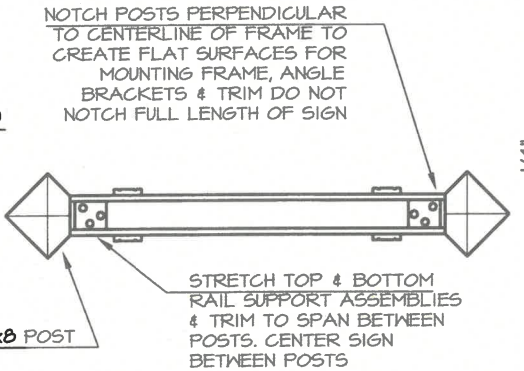


1 2x4 GRILL
 2 W INTERP PANEL

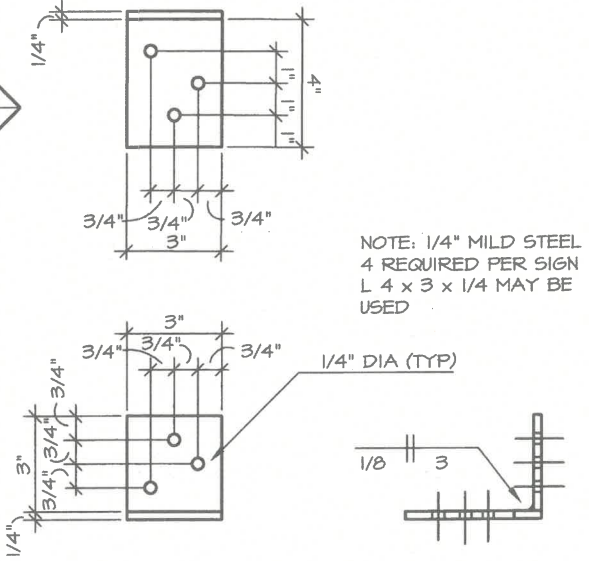
2 2x4 GRILL



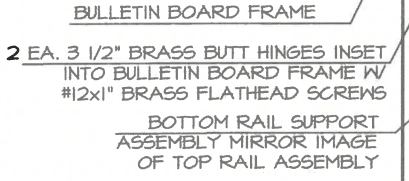
3 2x4 GRILL SECTION
 2 PERPENDICULAR TO POST



4 2x4 GRILL SECTION
 2 ANGLED TO POST



5 ANGLE BRACKET



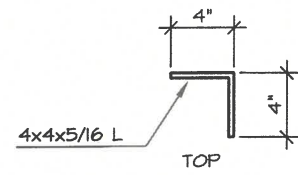
6 SUPPORT GRILL
 2 SECTION

NOTES:

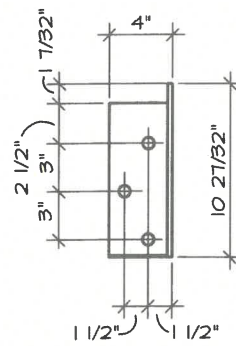
- SEE SPECIFICATIONS FOR ACTUAL NUMBER & LOCATION OF INTERP PANELS & BULLETIN BOARDS
- INTERPRETIVE PANEL ASSEMBLY CONSISTS OF INTERPRETIVE GRAPHIC BACKING BOARD & INTERP PANEL FRAME.
- BULLETIN BOARD ASSEMBLY CONSISTS OF CLEAR POLY-CARBONATE, SOUND BOARD, BULLETIN BOARD FRAME & HINGES
- INTERPRETIVE PANEL GRAPHIC, SUPPLIED BY OTHERS, MEASURES 3'-0 1/2"x2'-6 1/2"x1/8" THE CONTRACTOR SHALL MAKE ACCOMMODATIONS FOR THIS GRAPHIC IN MEASUREMENTS & CONSTRUCTION.



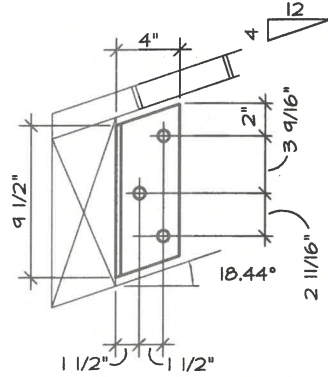
NO.	REVISION	DATE	APPROVED
8	REPLACED STAMP	12/13	RBM
7	CHANGED STATE PARK LOGO	04/10	MPS
6	CHANGED TITLE BLOCK	12/07	MPS
5	REPLACED STAMP	3/04	MPS
4	CHANGED ACTUAL DIMENSIONS TO NOMINAL	01/03	BSD
3	REPLACED STAMP	3/02	DH
2	CHANGED DRAWING NUMBER	12/97	BSD
1	ADDED DIMS FOR GRAPHICS	6/97	D. HAGE



TOP



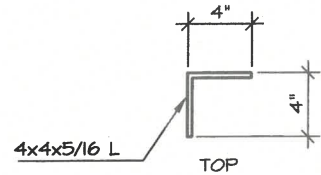
FRONT



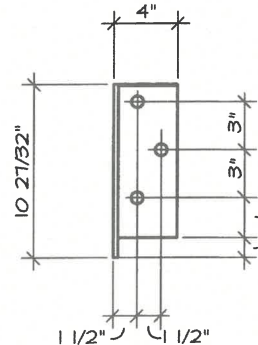
SIDE

OPPOSITE HANDED BRACKET IS MIRROR IMAGE

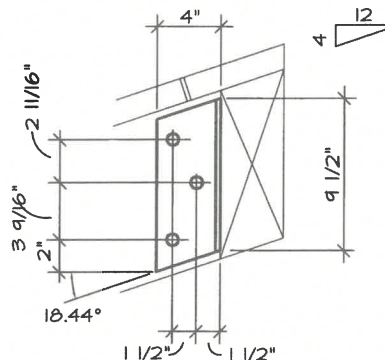
1
3 EAVE/GABLE
CORNER BRACKET



TOP



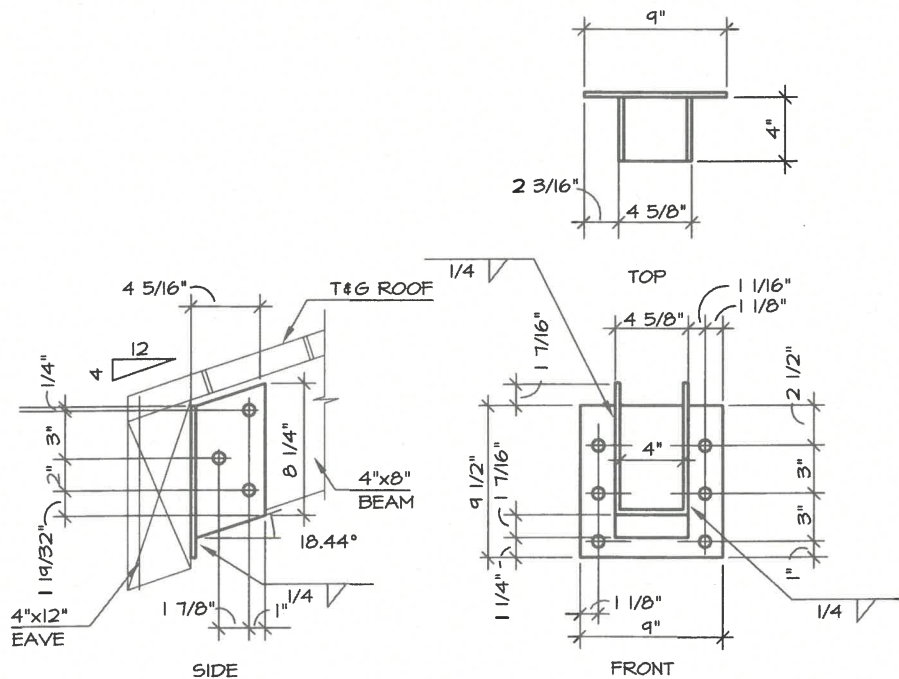
FRONT



SIDE

OPPOSITE HANDED BRACKET IS MIRROR IMAGE

2
3 RIDGE/GABLE
CORNER BRACKET

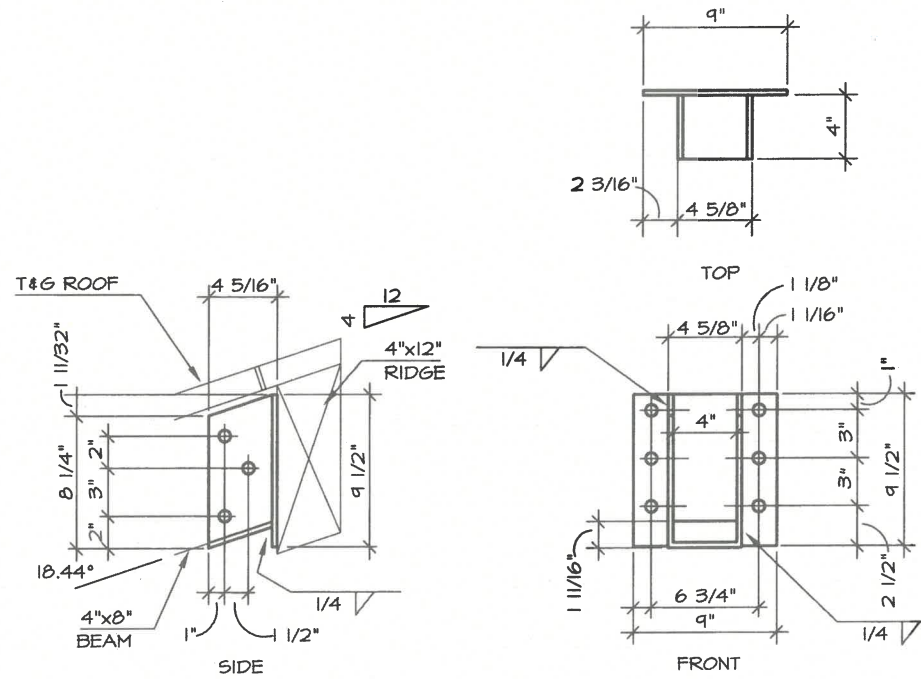


SIDE

FRONT

3
3 ROOF BEAM/
EAVE BRACKET

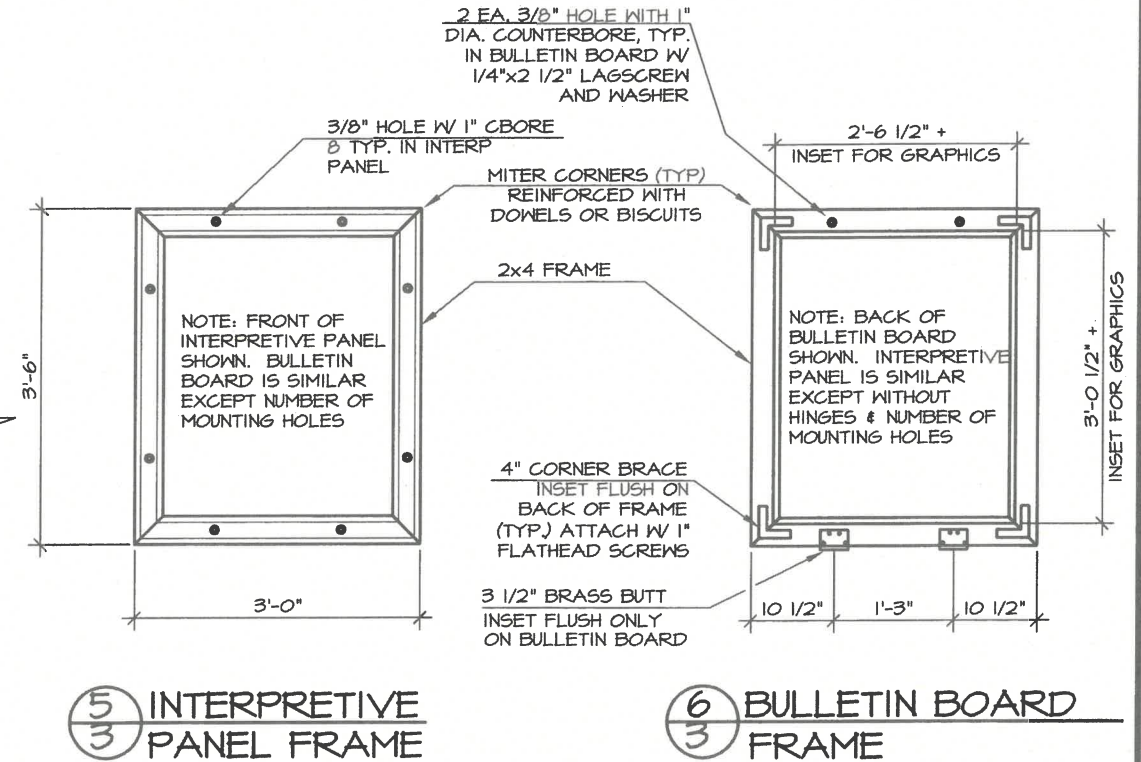
NOTE: BRACKETS ARE 5/16" MILD STEEL



SIDE

FRONT

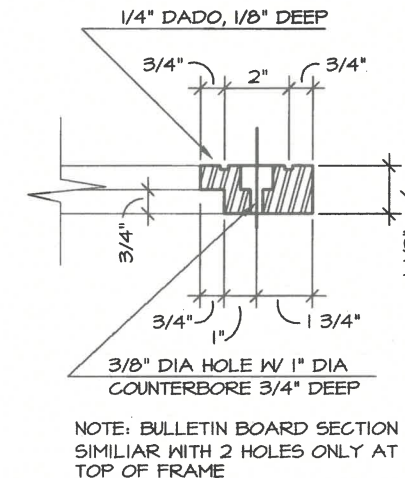
4
3 ROOF BEAM/
RIDGE BRACKET



5
3 INTERPRETIVE
PANEL FRAME

6
3 BULLETIN BOARD
FRAME

- NOTES:
- BRACKETS ARE 5/16" MILD STEEL
 - BRACKET BOLTS SHALL BE 3/8" DIA & EXTEND 1/4" TO 1/2" BEYOND NUT
 - BOLT HOLES SHALL BE 7/16" DIA IN ALL STRUCTURAL BRACKETS
 - WASHERS SHALL BE USED IN CASES WHERE BOLTHEADS OR NUTS CONTACT WOOD.



7
3 INTERP PANEL
FRAME SECTION

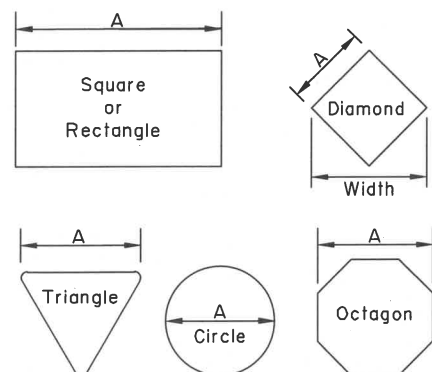
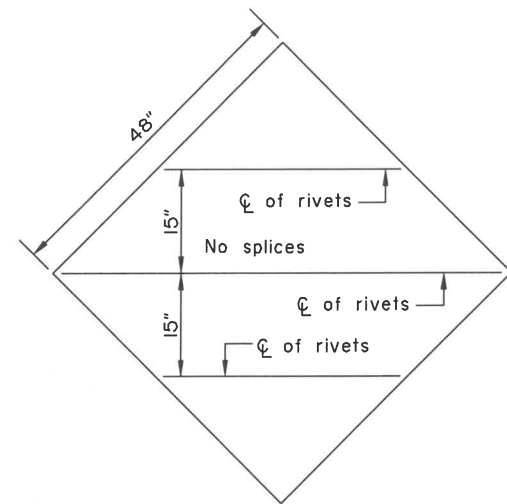


NO.	REVISION	DATE	APPROVED
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7	CHANGED STATE PARK LOGO	04/10	MPS
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1	ADDED DIMS FOR GRAPHICS	6/97	D. HAGG



GENERAL NOTES

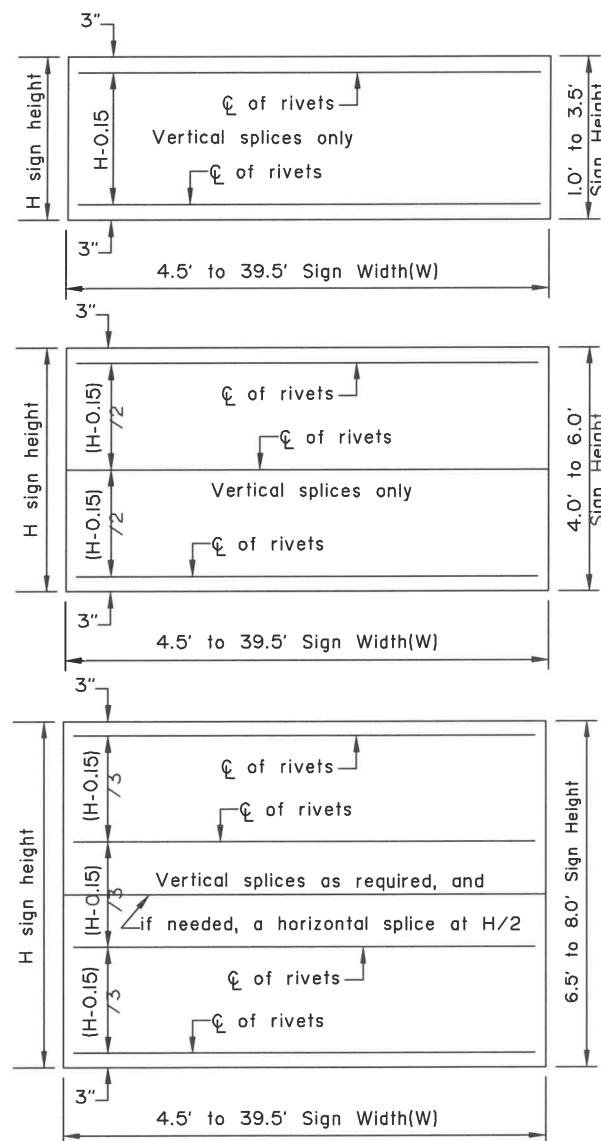
1. See the standard specifications for the aluminum alloys that you may use for sign sheeting and wind framing members.
2. Fabricate all signs from 0.125" thick aluminum sheeting.
3. Sign fabricators may use alternates to the zee shaped framing member with approval of the engineer, if the frame manufacturer 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.



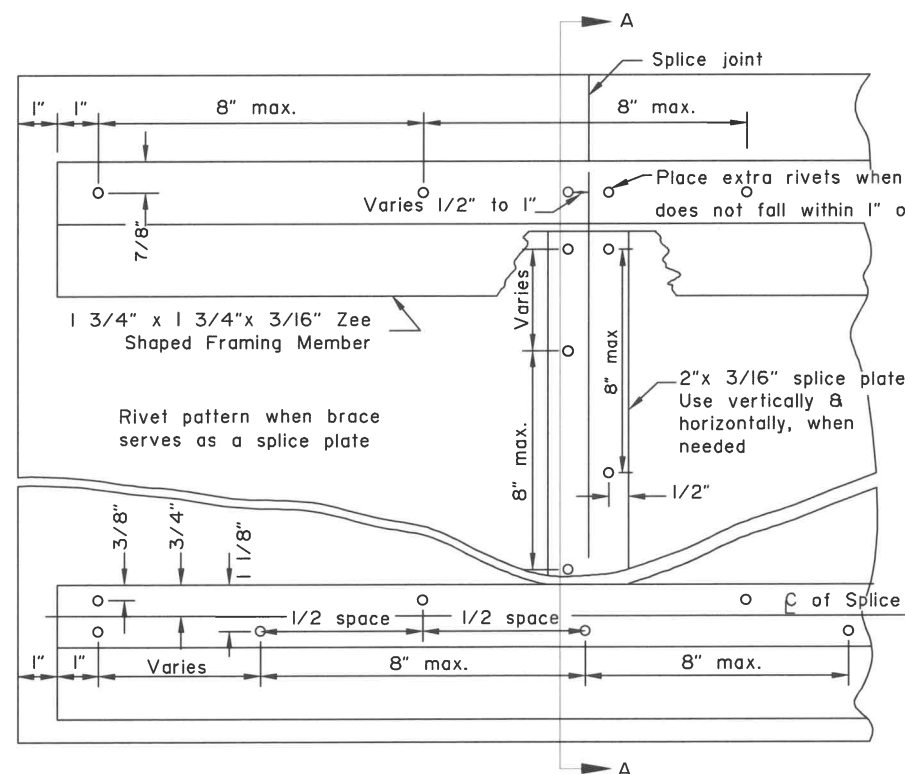
Maximum size unframed signs using 0.125" thick aluminum sheeting.	
Sign Shape	A
Squares, Shields, and Route Markers	48"
Rectangles	48"
Diamonds	48"
Triangles	48"
Rounds and Octagons	48"

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

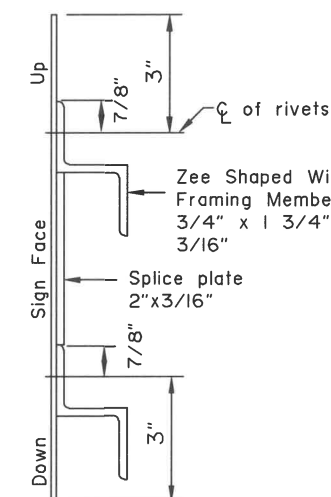
LIGHT SIGNS



WIND FRAMING LOCATIONS



RIVET DETAIL FOR ZEE SHAPED WIND FRAMING & SPLICE PLATE



SECTION A-A

Note: Drawing not to scale

State of Alaska DOT&PF
ALASKA STANDARD PLAN
SIGN FRAMING

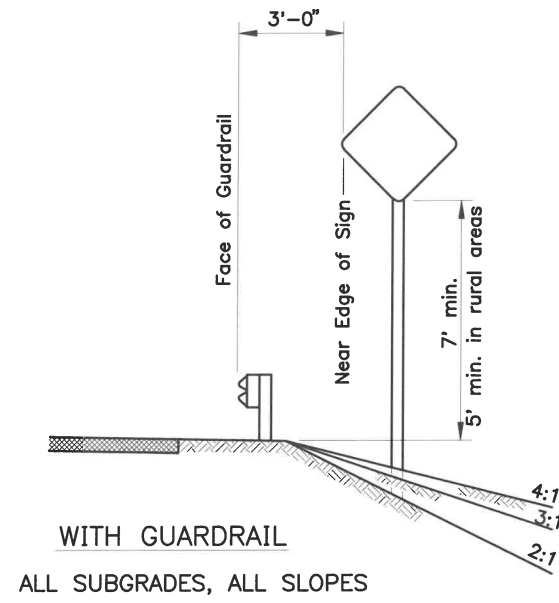
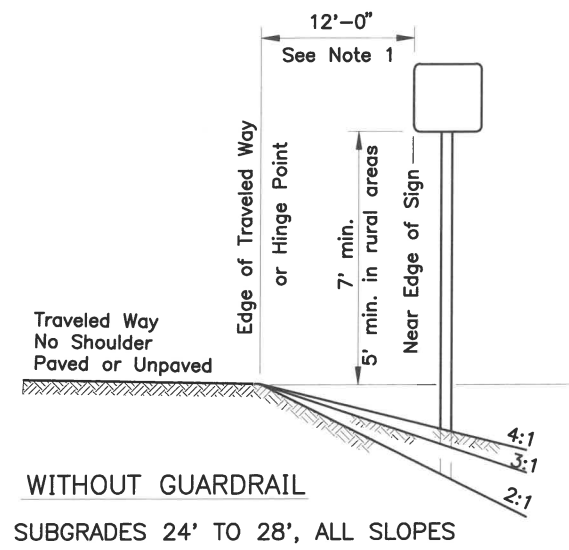
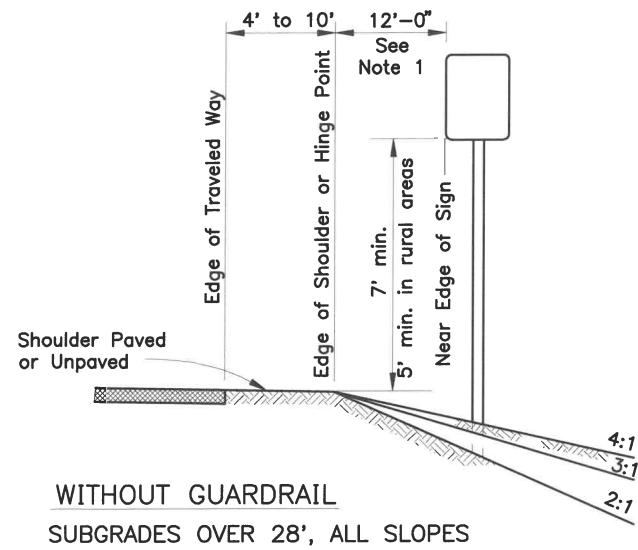
Adopted as an Alaska Standard Plan by: *Carolyn Morehouse*

Carolyn Morehouse, P.E.
Chief Engineer

Adoption Date: 7/17/2020

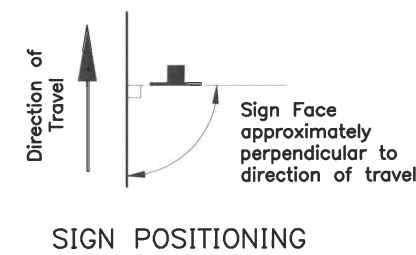
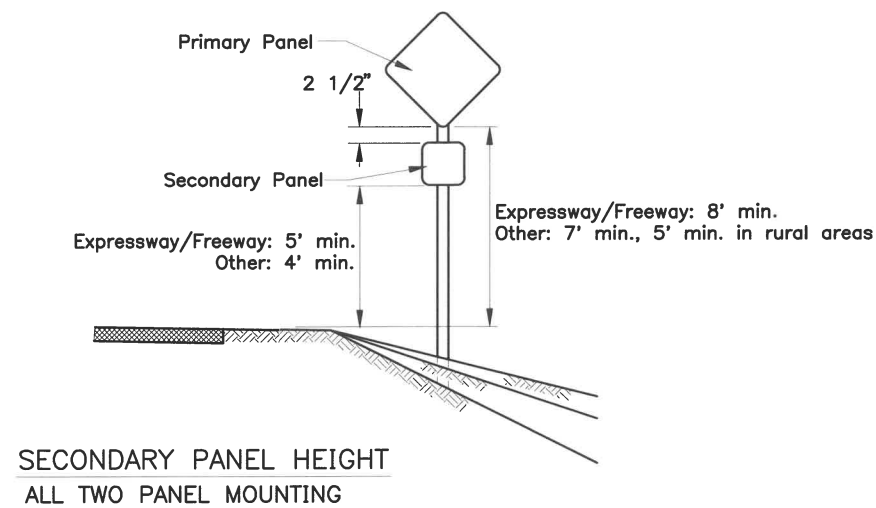
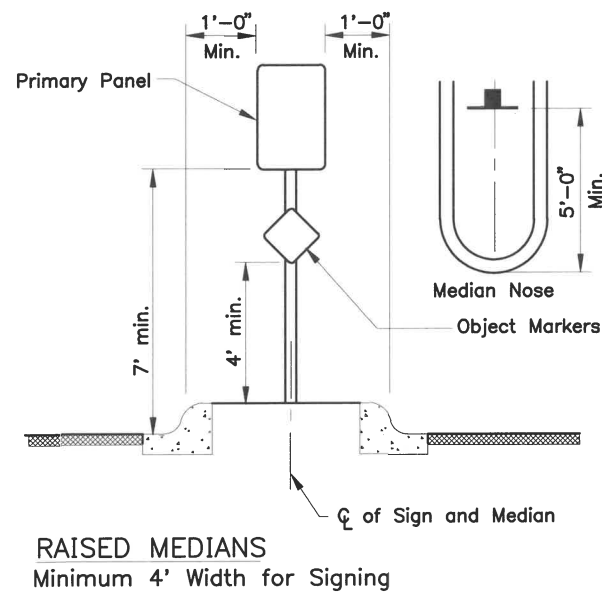
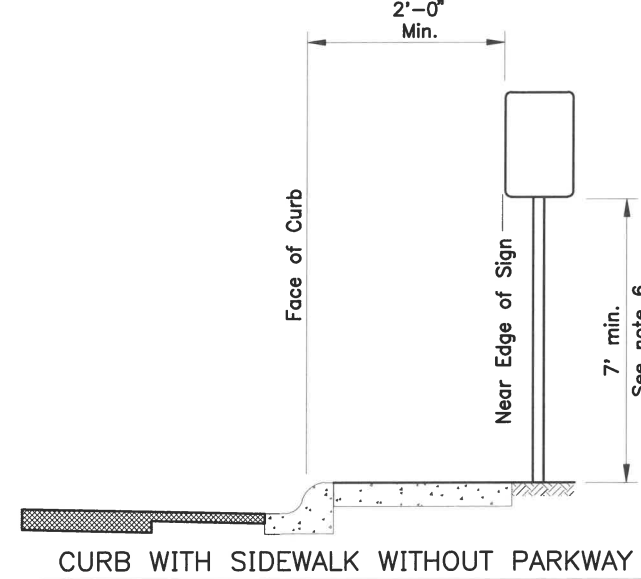
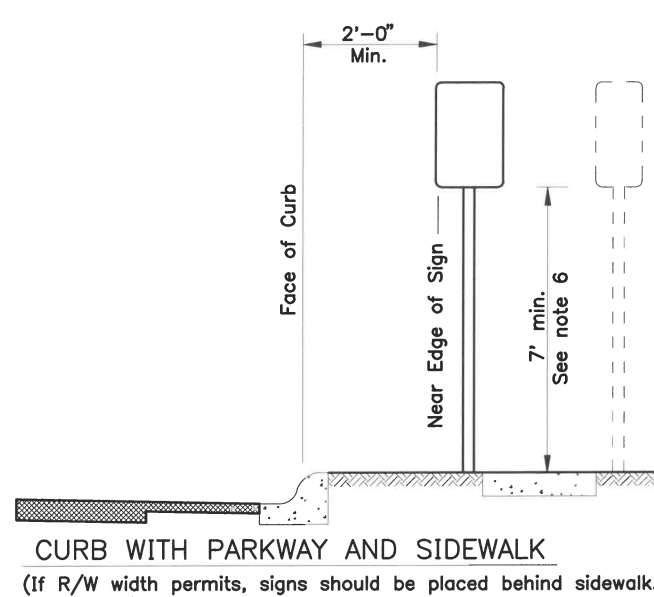
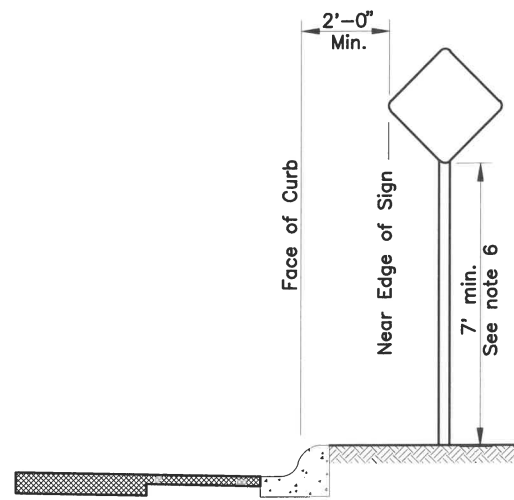
Last Code and Stds. Review
By: WTH Date: 7/8/2020

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

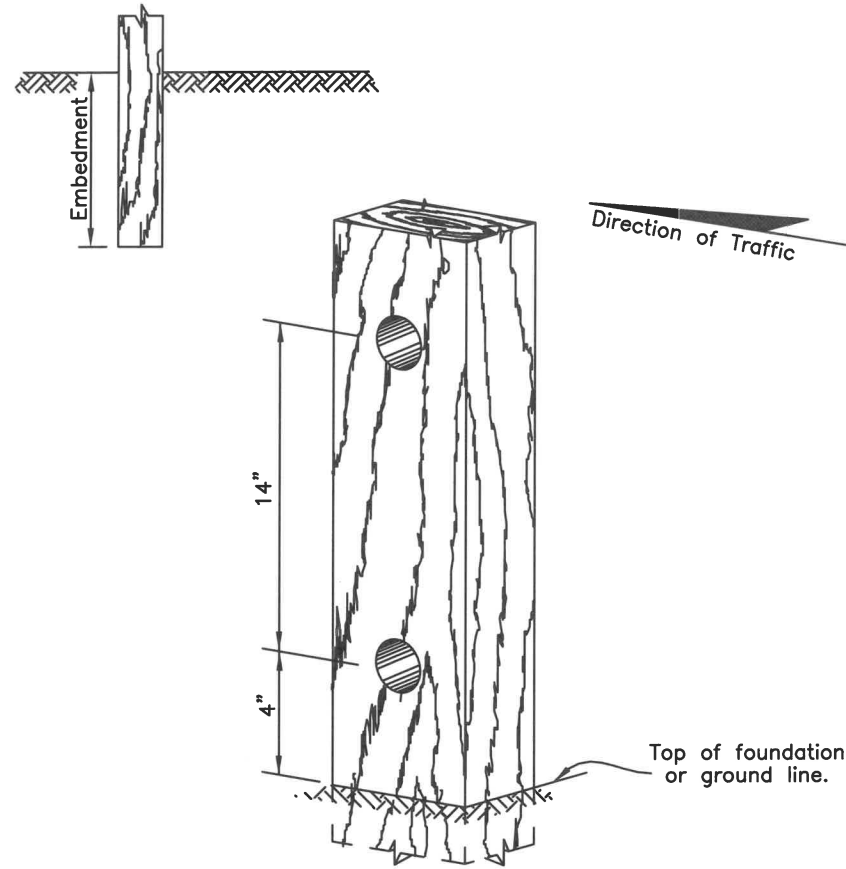
Adopted as an Alaska
Standard Plan by *Carolyn Morehouse*
Carolyn Morehouse, P.E.
Chief Engineer

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

GENERAL NOTES:

1. Refer to Standard Drawing "Sheet Aluminum Sign and Framing" for light sign 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. Do not install wood posts larger than 6"x8".
5. Use larger posts than shown on this sheet, with hinges, for multiple support signs where the supports are separated by more than 7 feet.

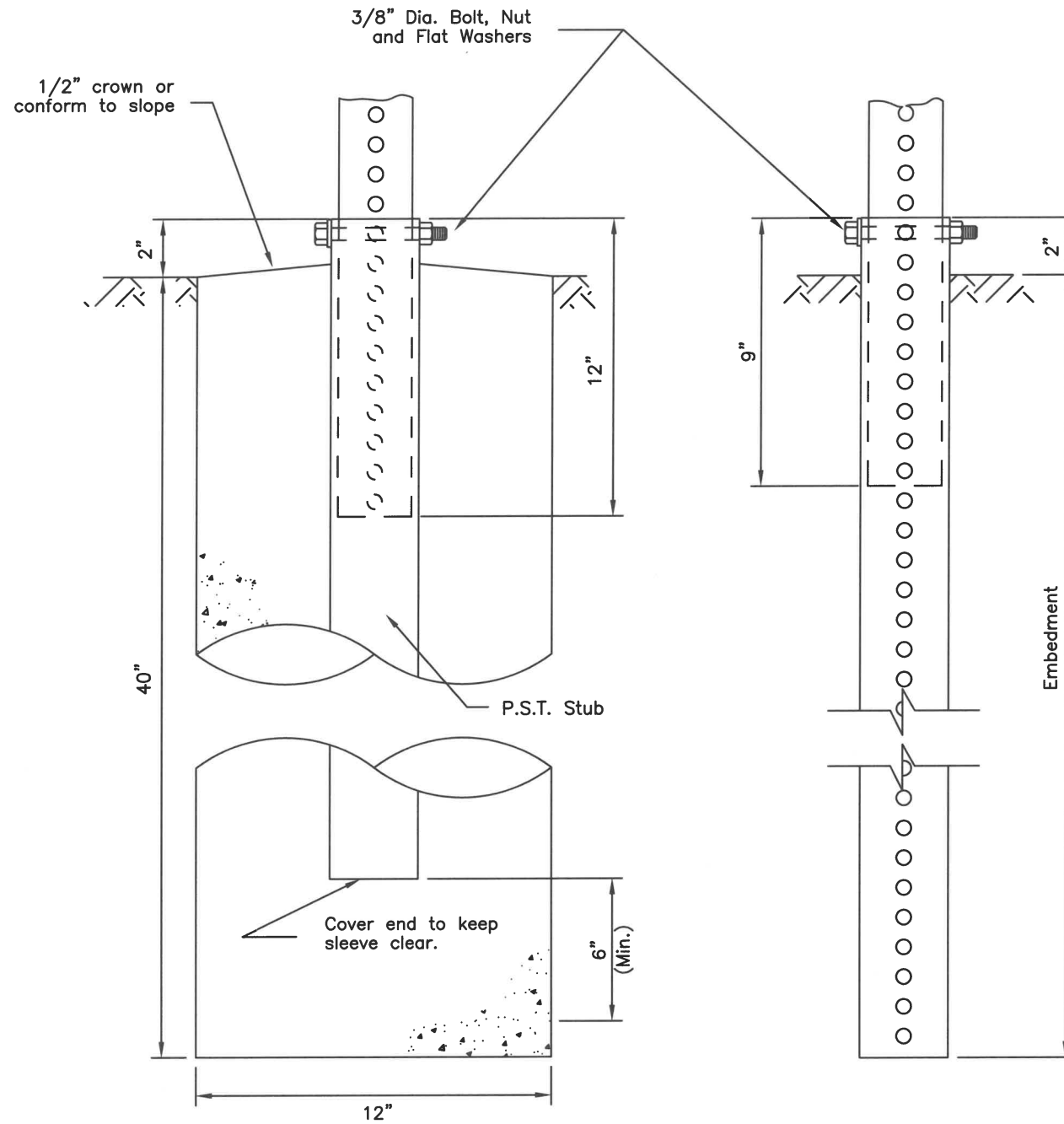


Note: If holes are field drilled after post has been treated, the holes shall be thoroughly swabbed with a 5% solution of pentachlorophenol and mineral spirits.

WOOD POSTS			
SIZE	HOLE DIA.	EMBEDMENT*	NUMBER OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	36"	2
4"x6"	1 1/2"	36"	2
6"x6"	1 1/2"	40"	1
6"x8"	3"	48"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS



SLEEVE TYPE
-CONCRETE FOUNDATION-

SLEEVE TYPE *
-SOIL EMBEDMENT-

PERFORATED STEEL TUBES (P.S.T.) (12 ga. - .105" Wall Thickness)		
POST SIZE (inch)	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	3'-0"	2
1 3/4" x 1 3/4"	3'-0"	2
2" x 2"	3'-6"	2
2 1/4" x 2 1/4"	4'-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

REVISIONS		
Date	Description	By
1/1/85	Redraft-Delete Post	Gdo
4/2/01	Revised PST table	Kjs
	Added note 3	
2/12/02	Revised Wood Posts	Kjs

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

**LIGHT SIGN
STRUCTURE POST
EMBEDMENT**



Date 7/15/82