

# Mammoth Lakes Recreational Soft Surface Signage & Wayfinding System

Design Intent Drawings for Trail & Node Signage

November 27, 2016

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The Town of Mammoth Lakes  
California

# DRAFT







# Graphic Standards

Scale

n.t.s.

Color Code

- ⑬  Mammoth Lakes Trail System, (logo beige)
- ⑭  Orange Diamond Blaze (motorized)  
Pantone: 166 C  
RGB: 227, 82, 5  
CMYK: 0, 64, 98, 11  
HTML: E35205
- ⑮  Dark Blue Diamond Blaze, (groomed)  
Pantone: Process Blue C  
RGB: 0, 133, 202  
CMYK: 100, 13, 1, 2  
HTML: 0085CA
- ⑯  Light Blue Diamond Blaze, (ungroomed)  
Pantone Coated: 603 C  
RGB: 119, 197, 213  
CMYK: 48, 0, 10, 0  
HTML: 77C5D5

## SYSTEM SYMBOLS

Symbol array additions for winter soft surface signage program. See TOML Section 600 for full MLTS symbol array. The fabricator will be provided with scalable electronic artwork for all symbols in a vector art (outlined) format.



Downhill Skiing



Snowmobiling



Cross Country Skiing



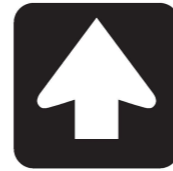
Snowshoeing



Snowplay



Dog Sledding



Directional



Directional

## MLTS POST BRANDS



MLTS POST LOGO



MLTS POST QR CODE  
(Font: Century Gothic)



USFS POST LOGO

## SYSTEM ETIQUETTE SIGNS



Right of Way Winter



Right of Way Summer

## SYSTEM LOGOS

(Please See MLTS Brand Guideline for specifications of MLTS logo usage)



Mammoth Lakes Trail System



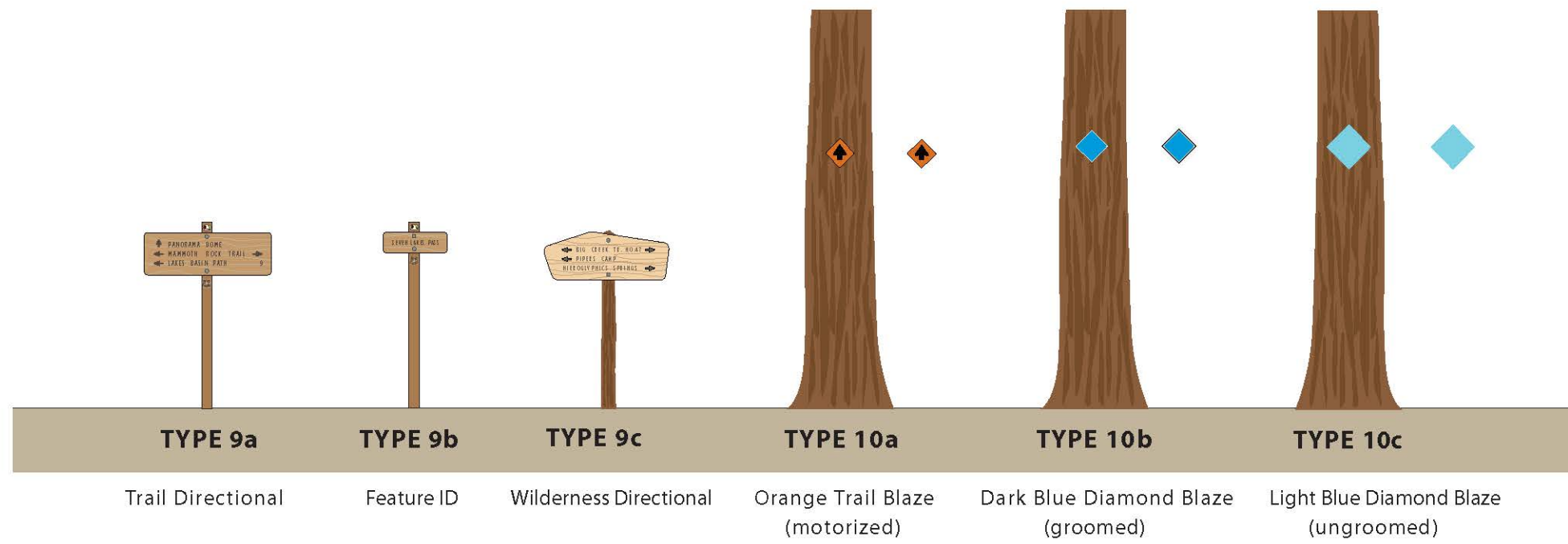
Mammoth Lakes Trail System



Measure R

**Soft Surface  
Sign Type Array**

n.t.s.



## TYPE 9a - TRAIL DIRECTIONAL SPECIFICATIONS SINGLE SIDED

### BASIC INFORMATION

#### Sign Material

3/4" Oak routed with scorched 1" letters.

#### Shape

Rectangular (non-wilderness shape).

#### Post Material

Cedar "Four by Four" post.s. (Actual dimensions 3.5" x 3.5" x 8')

#### Post Symbols

MLTS logo, USFS logo & QR code.

### INSTALLATION

#### Minimum Mounting Height

4 feet from trail tread to bottom of sign.

#### Minimum Lateral Distance

3 feet from the edge of trail tread to nearest edge of sign.

#### Installation Procedure

Installed in a hole dug 20-24 inches deep. Packed with rocks and dirt, tamping each layer as you go to secure the anchor bolt at the bottom of the post in the ground. Use a level to ensure a plumb and level sign installation. Top off the hole with mounded soil to accommodate settling and prevent water from puddling around the post. Scatter pine needles, sticks, and top soil from areas near the sign to disguise the installation. In rocky areas or areas with soft soils, posts can be supported by a rock cairn. Use smaller stones and rocks between the larger stones to help tighten and secure the post in place.

#### Sign Purpose

Trail Directional signs within the MLTS are installed to assist visitors in navigating all trail system intersections where necessary.

#### Sign Attachment Hardware

- (2) 3/8" X 5" long Carriage Bolts
- (2) 3/8" Flat Washers
- (2) 3/8" Locking Washers
- (2) 3/8" Nuts

#### Hardware Installation Order

- 1. 3/8" X 5" long Carriage Bolt (front of sign)
- 2. 3/8" Flat Washer (back of sign)
- 3. 3/8" Locking Washer (back of sign)
- 4. 3/8" Nut (back of sign)

#### Anchor Bolt Hardware

- (1) 3/8" X 10" long Carriage Bolts
- (2) 3/8" Nuts

#### Logo Attachment Hardware

- (5) Size 4 X 3/4" long Flat Head Philips Wood Screws

#### Routing Specifications

1/16" inset and an 1/16" gap around each logo and QR code.

#### Graphic File Type for CNC Machine

DFX

## TYPE 9a - TRAIL DIRECTIONAL SPECIFICATIONS DOUBLE SIDED

### BASIC INFORMATION

#### Sign Material

3/4" Oak routed with scorched 1" letters.

#### Shape

Rectangular (non-wilderness shape).

#### Post Material

Cedar "Four by Four" post.s. (Actual dimensions 3.5" x 3.5" x 8')

#### Post Symbols

MLTS logo, USFS logo & QR code.

### INSTALLATION

#### Minimum Mounting Height

4 feet from trail tread to bottom of sign.

#### Minimum Lateral Distance

3 feet from the edge of trail tread to nearest edge of sign.

#### Installation Procedure

Installed in a hole dug 20-24 inches deep. Packed with rocks and dirt, tamping each layer as you go to secure the anchor bolt at the bottom of the post in the ground. Use a level to ensure a plumb and level sign installation. Top off the hole with mounded soil to accommodate settling and prevent water from puddling around the post. Scatter pine needles, sticks, and top soil from areas near the sign to disguise the installation. In rocky areas or areas with soft soils, posts can be supported by a rock cairn. Use smaller stones and rocks between the larger stones to help tighten and secure the post in place.

#### Sign Purpose

Trail Directional signs within the MLTS are installed to assist visitors in navigating all trail system intersections where necessary.

### DOUBLE SIDED SIGN VARIATIONS

#### Matching Double Sided Sign

Equal number of lines for each sign (ex: 2 line sign with a 2 line sign).

#### Mismatching Double Sided Sign

The number of lines for each sign are not equal (ex: 2 line sign with a 5 line sign).

#### 90 Degree Offset Double Sided Sign

Used at unusual intersections where one sign is installed in the normal position and the other is installed 1" underneath and a quarter turn (90 degrees) from the original sign.

#### Sign Attachment Hardware

- (4) 1/2" X 2 1/2" Lag Screws
- (4) 1/2" Locking Washers

#### Hardware Installation Order

- 1. 1/2" X 2 1/2" long Lag Screw (front of sign)
- 2. 1/2" Locking Washer (front of sign underneath the lag head).

#### Anchor Bolt Hardware

- (1) 3/8" X 10" long Carriage Bolts
- (2) 3/8" Nuts

#### Logo Attachment Hardware

- (5) Size 4 X 3/4" long Flat Head Philips Wood Screws

#### Routing Specifications

1/16" inset and an 1/16" gap around each logo and QR code.

#### Graphic File Type for CNC Machine

DFX

Sheet Description

**TYPE 9a**

**Trail Directional**

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Sign Material: Oak routed with scorched 1" letters.

Shape: Rectangular (non-wilderness shape).

Post Symbols: MLTS Logo, USFS Logo & QR code.

Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

**INSTALLATION**

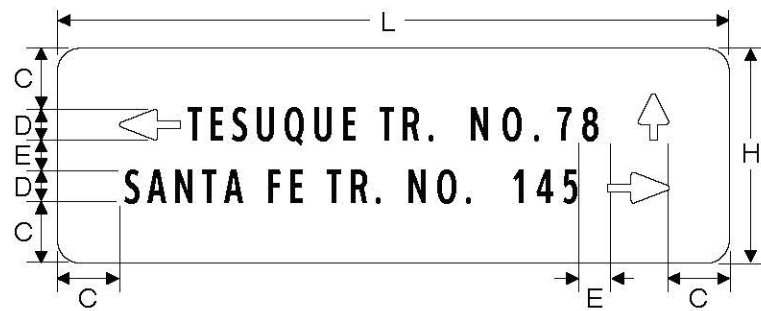
Minimum Mounting Height: 4 feet from trail tread to bottom of sign.

Minimum lateral distance: 3 feet from edge of sign to edge of trail.

Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

**SIGN PURPOSE**

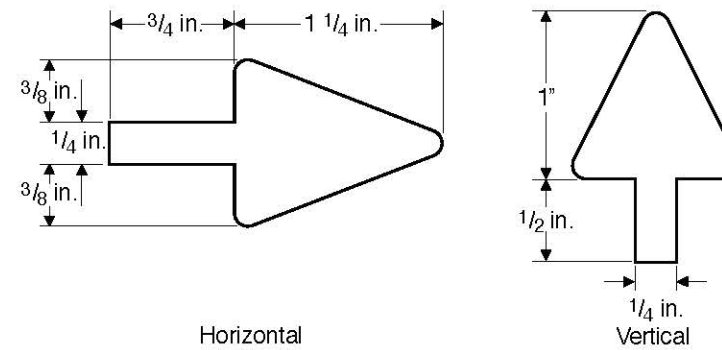
Trail Directional signs within the MLTS are installed to assist visitors in navigating all trail system intersections where necessary.



Text layout dimensions (inches)

Sign number	H	L	C	D* text	E
TD-1	5	Varies	2	1	1
TD-2	7	Varies	2	1	1
TD-3	9	Varies	2	1	1
TD-4	11	Varies	2	1	1
TD-5	13	Varies	2	1	1

\*Dimension D, text size, refers to ASA series C letters

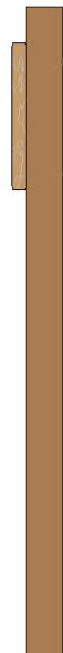


**References**

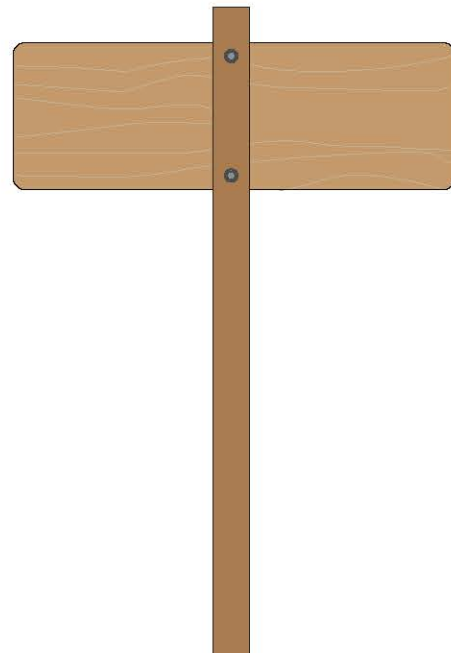
For sign guidelines, see chapter 5.  
For panel construction, see chapter 14.

**Diagrams and text layout dimensions from Chapter 5B-1 "Trail Destination Signs (TD)" from the "Sign and Poster Guidelines for the Forest Service" (2013).**

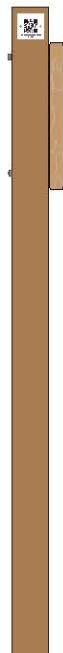
RIGHT SIDE



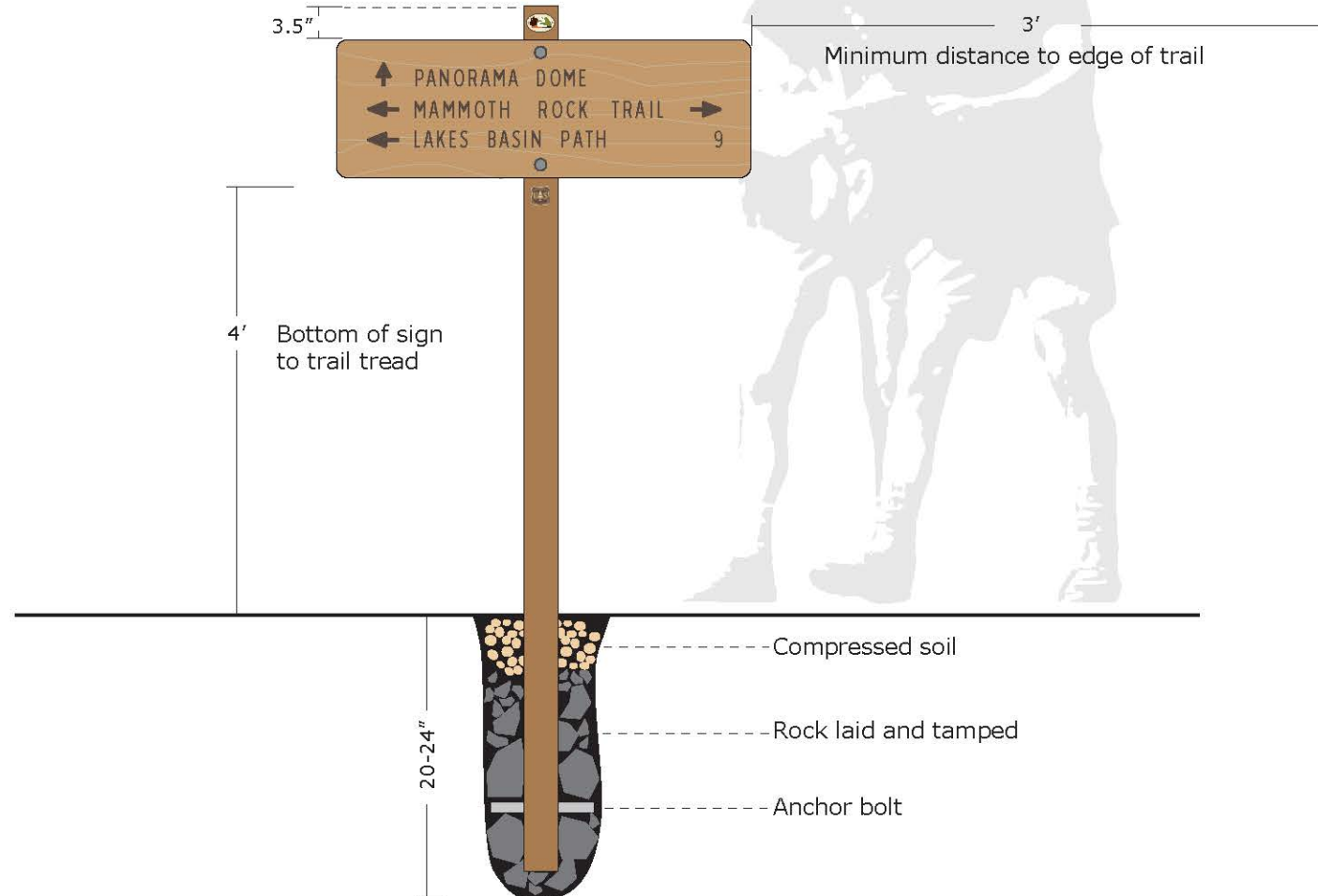
BACK



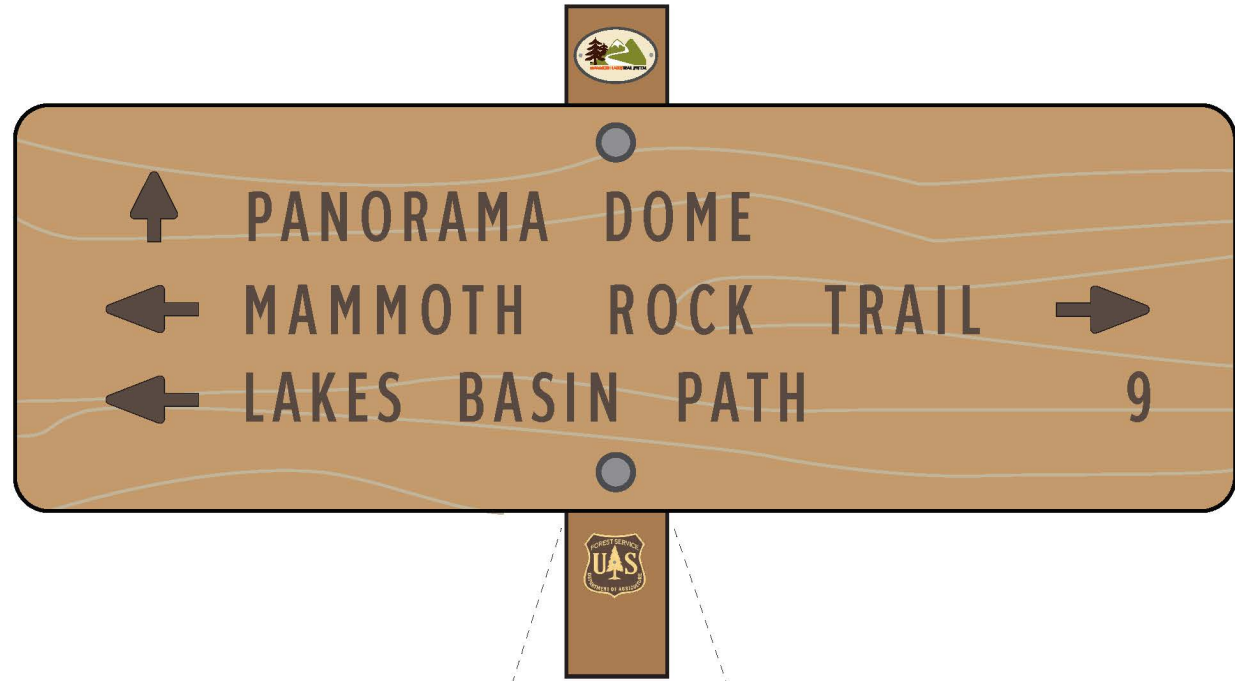
LEFT SIDE



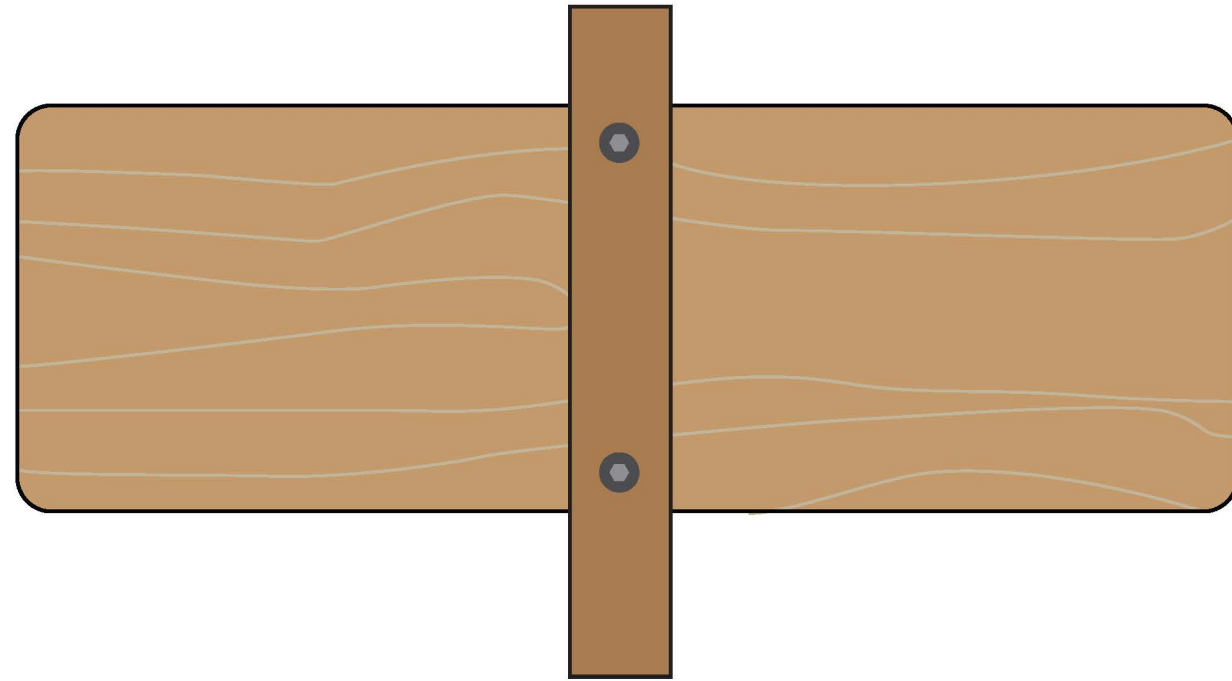
FRONT



**FRONT**  
QR CODE, USFS and MLTS logo on post



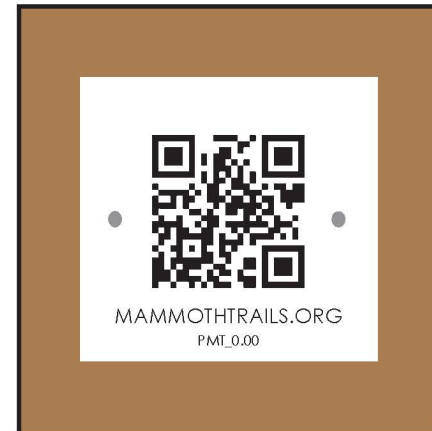
**BACK**  
Blank



**FRONT (LOWER)**

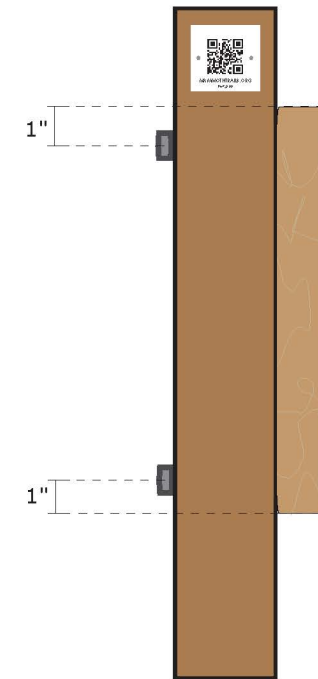


**FRONT (UPPER)**

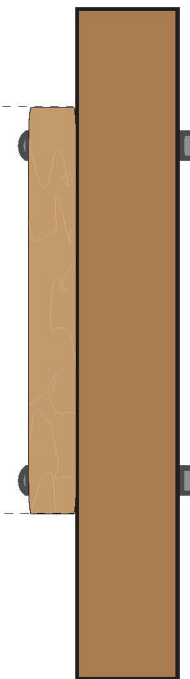


**LEFT**

**LEFT**  
QR code



**RIGHT**  
Blank



Sheet Description

**TYPE 9a**

Trail Directional  
(detail)

Scale

n.t.s.

Notes

Sheet Description

**TYPE 9a**

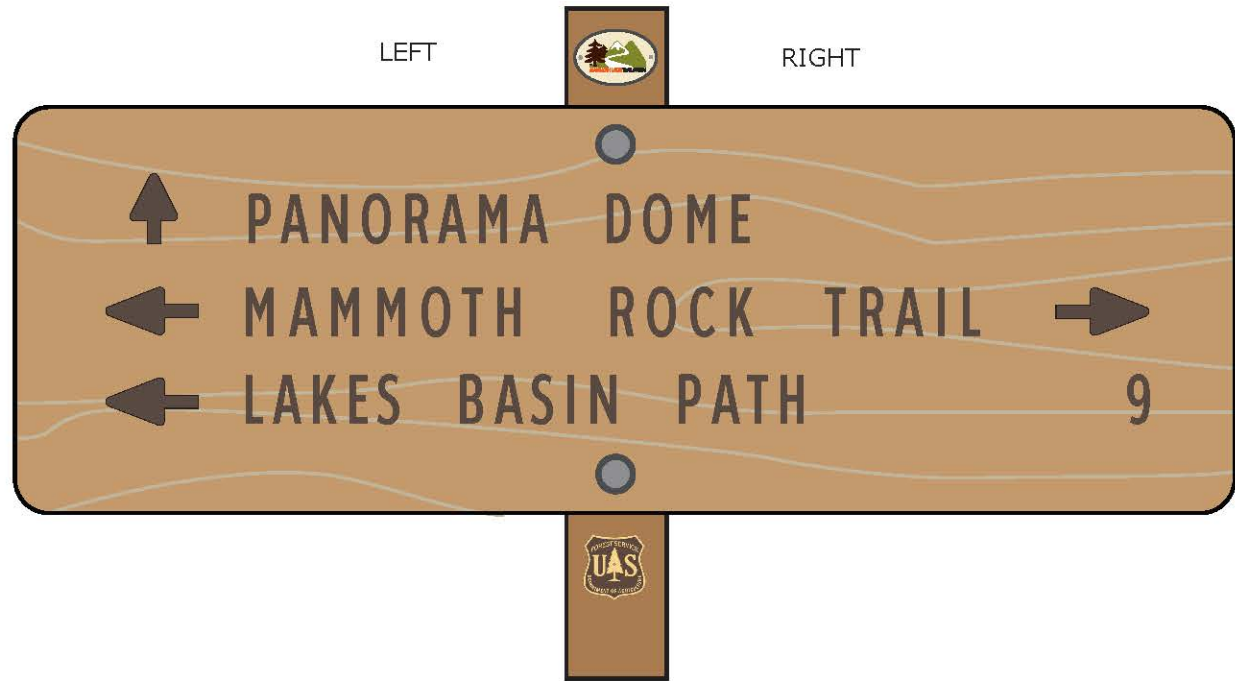
Trail Directional  
Matching Double Sided  
(detail)

Scale

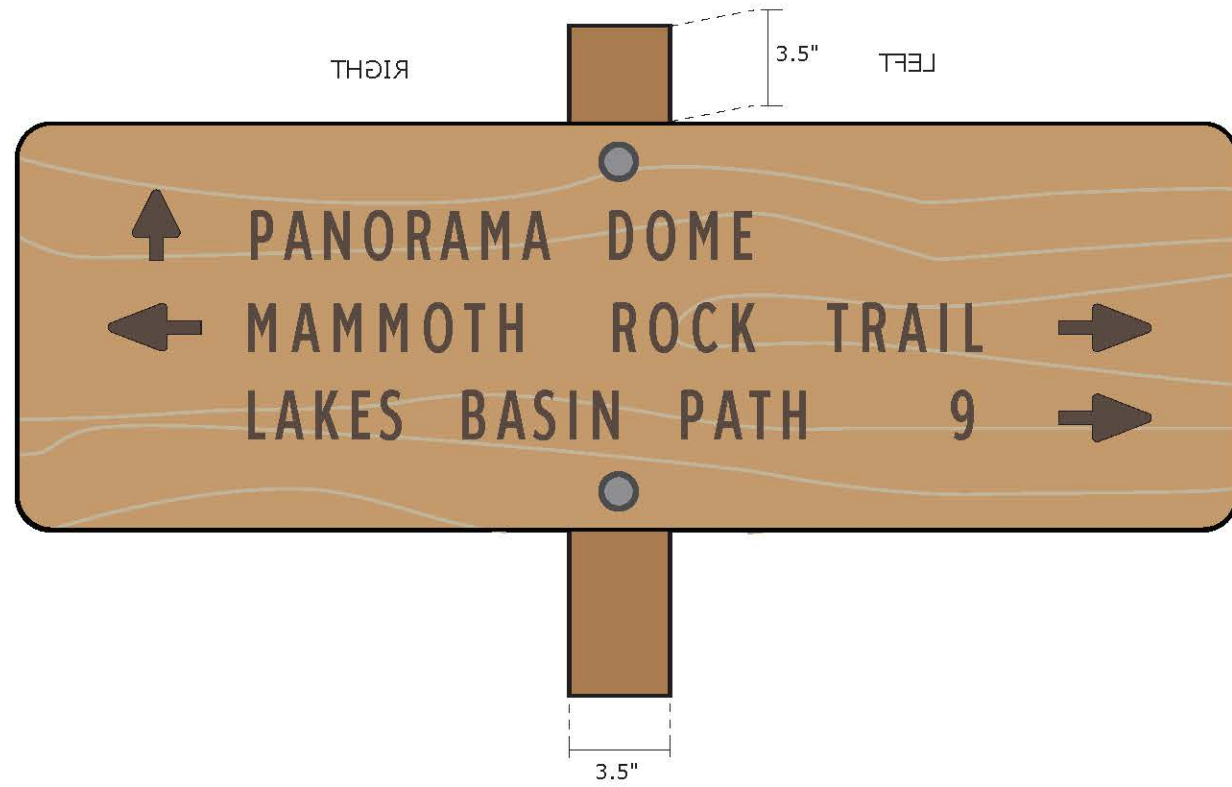
n.t.s.

Notes

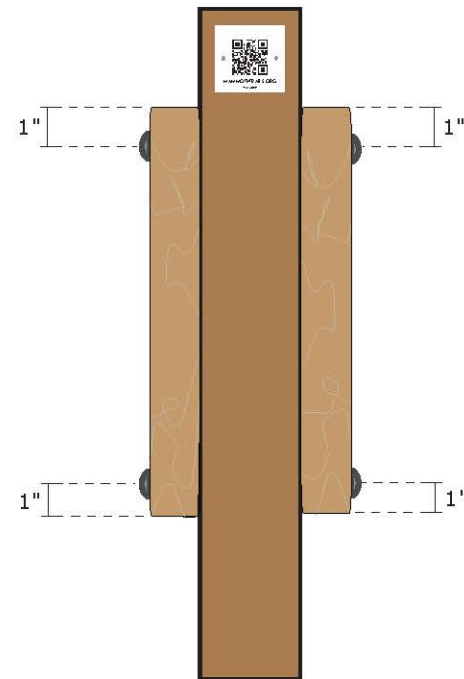
**FRONT**  
QR CODE, USFS and MLTS logo on post



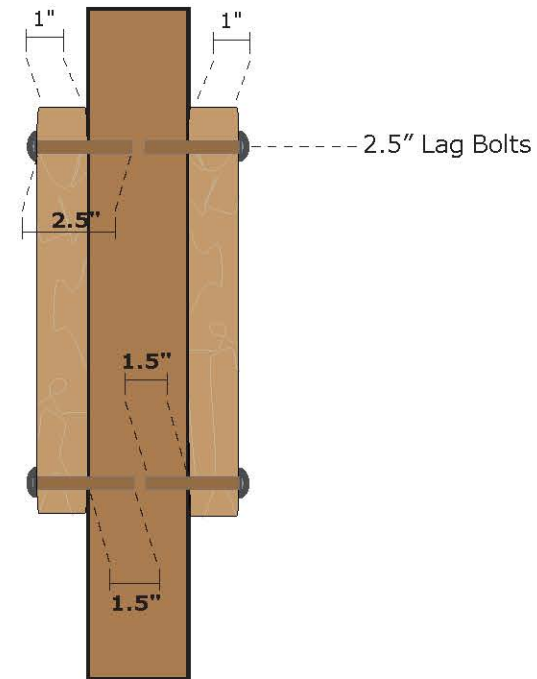
**BACK**



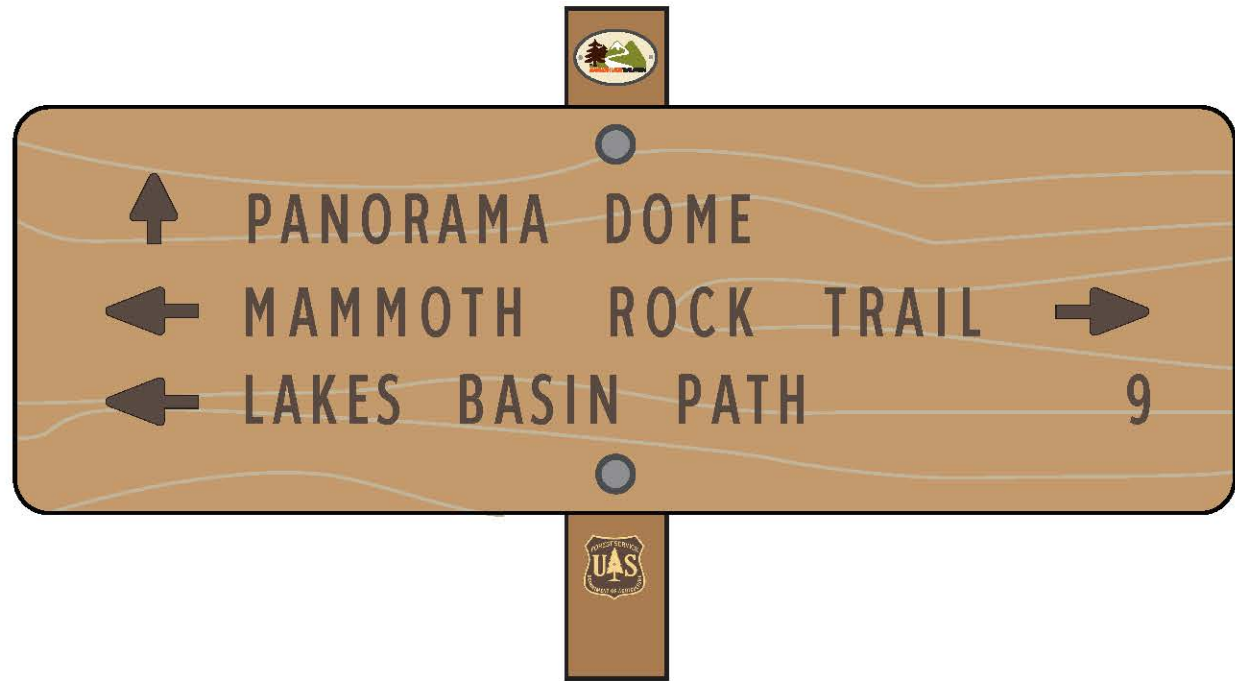
**LEFT**  
QR code



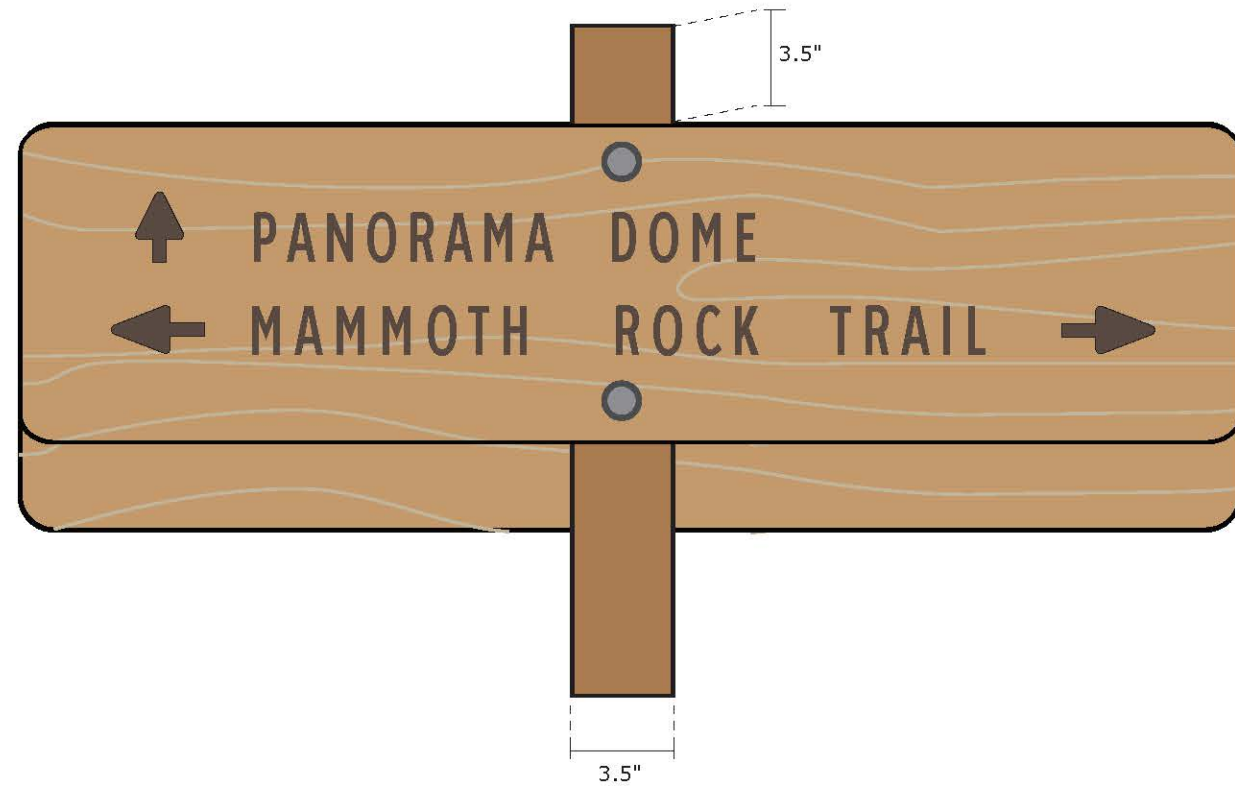
**RIGHT (Cross Section)**  
Blank



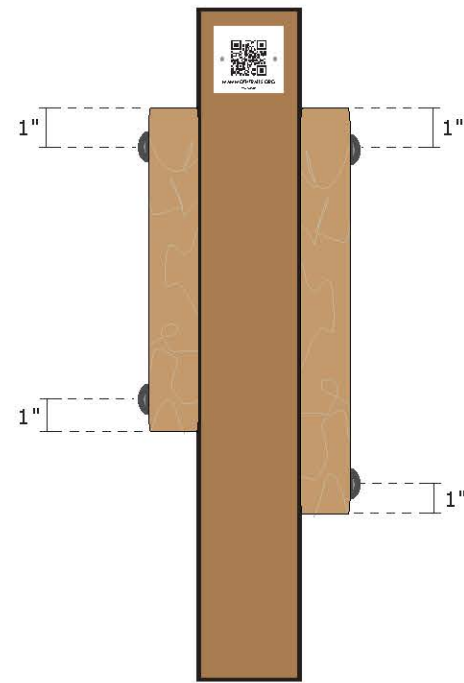
**FRONT**  
QR CODE, USFS and MLTS logo on post



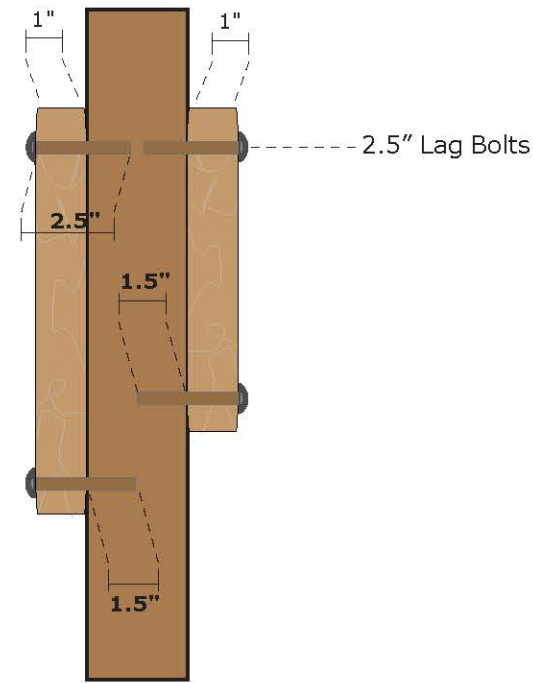
**BACK**



**LEFT**  
QR code



**RIGHT (Cross Section)**  
Blank



Sheet Description

**TYPE 9a**

Trail Directional  
Mismatching Double Sided  
(detail)

Scale

n.t.s.

Notes



Sheet Description

**TYPE 9a**

Trail Directional  
90 Degree Offset Double Sided  
(detail)

Scale

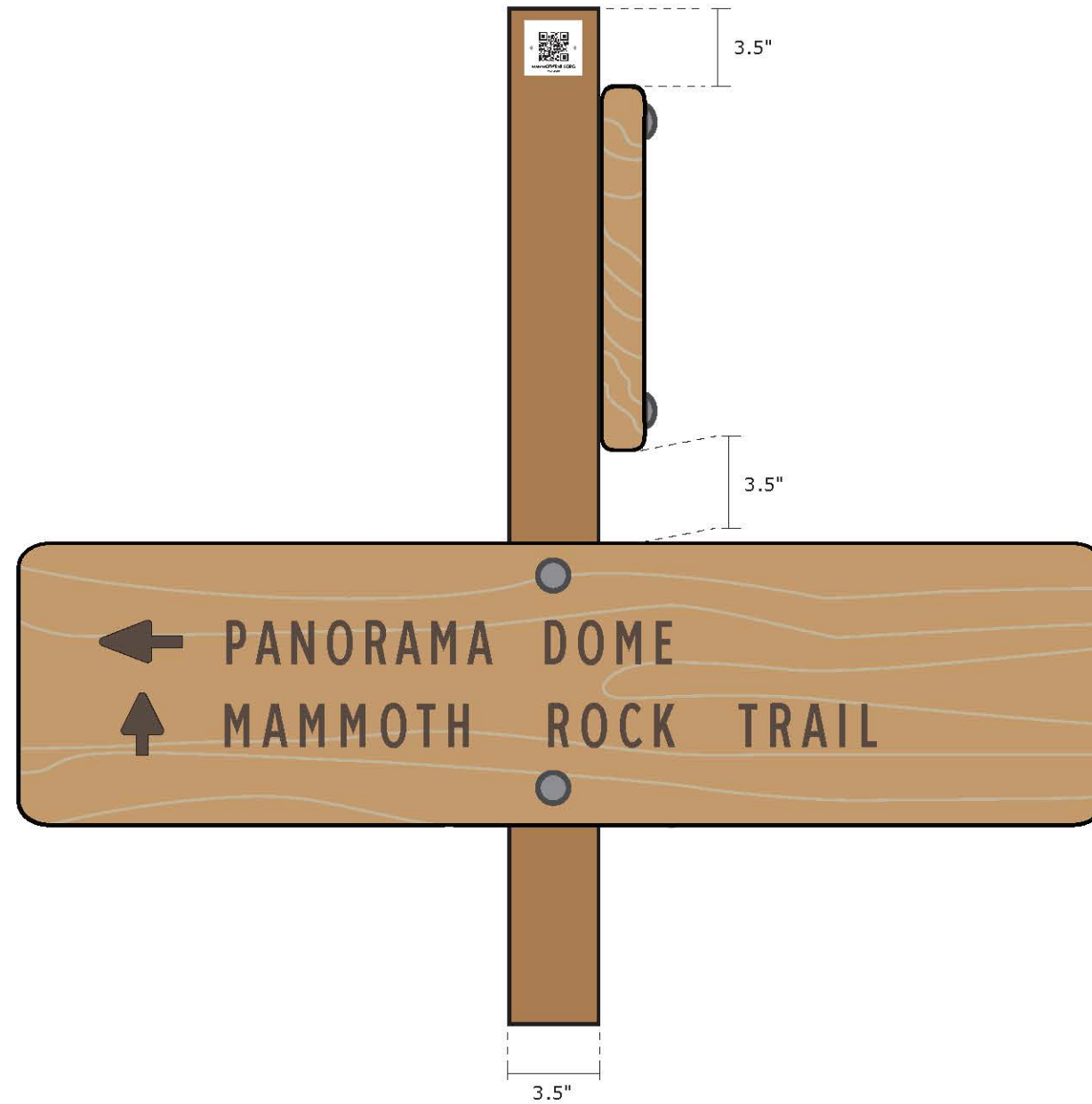
n.t.s.

Notes

**FRONT**  
QR CODE, USFS and MLTS logo on post



**LEFT (example)**



Sheet Description

**TYPE 9b**

Feature ID

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Sign Material: Oak routed with scorched 1" letters.

Shape: Rectangular (non-wilderness shape).

Post Symbols: MLTS Logo, USFS Logo & QR code.

Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

**INSTALLATION**

Minimum Mounting Height: 4 feet from trail tread to bottom of sign.

Minimum lateral distance: 3 feet from edge of sign to edge of trail.

Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

**SIGN PURPOSE**

Feature ID signs are used in non-wilderness areas to identify destinations that can be readily accessed by the intended trail user. Destinations and features will not be identified or signed in wilderness.

SEVEN LAKES POINT

Feature or destination name only

SEVEN LAKES POINT  
 ↑ S FK WHITE RIVER TR NO 38 →  
 ← INDIAN CREEK NO 211

Feature name and route and destination information

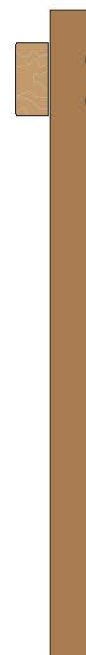
Text layout dimensions (inches)

Sign number	H	L	C	D* text	E
TD-1	5	Varies	2	1	1
TD-2	7	Varies	2	1	1
TD-3	9	Varies	2	1	1
TD-4	11	Varies	2	1	1
TD-5	13	Varies	2	1	1

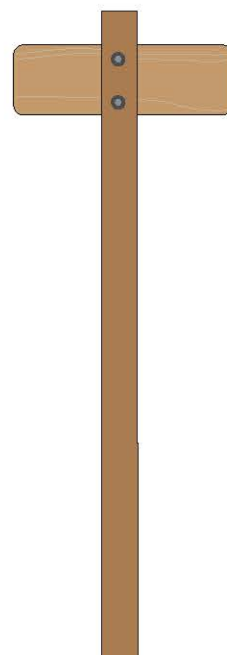
\*Dimension D, text size, refers to ASA series C letters

Diagram and text layout dimensions from Chapter 5-9 "Trail Signing" from the "Sign and Poster Guidelines for the Forest Service" (2013).

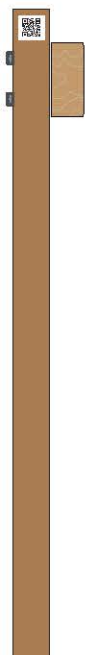
RIGHT SIDE



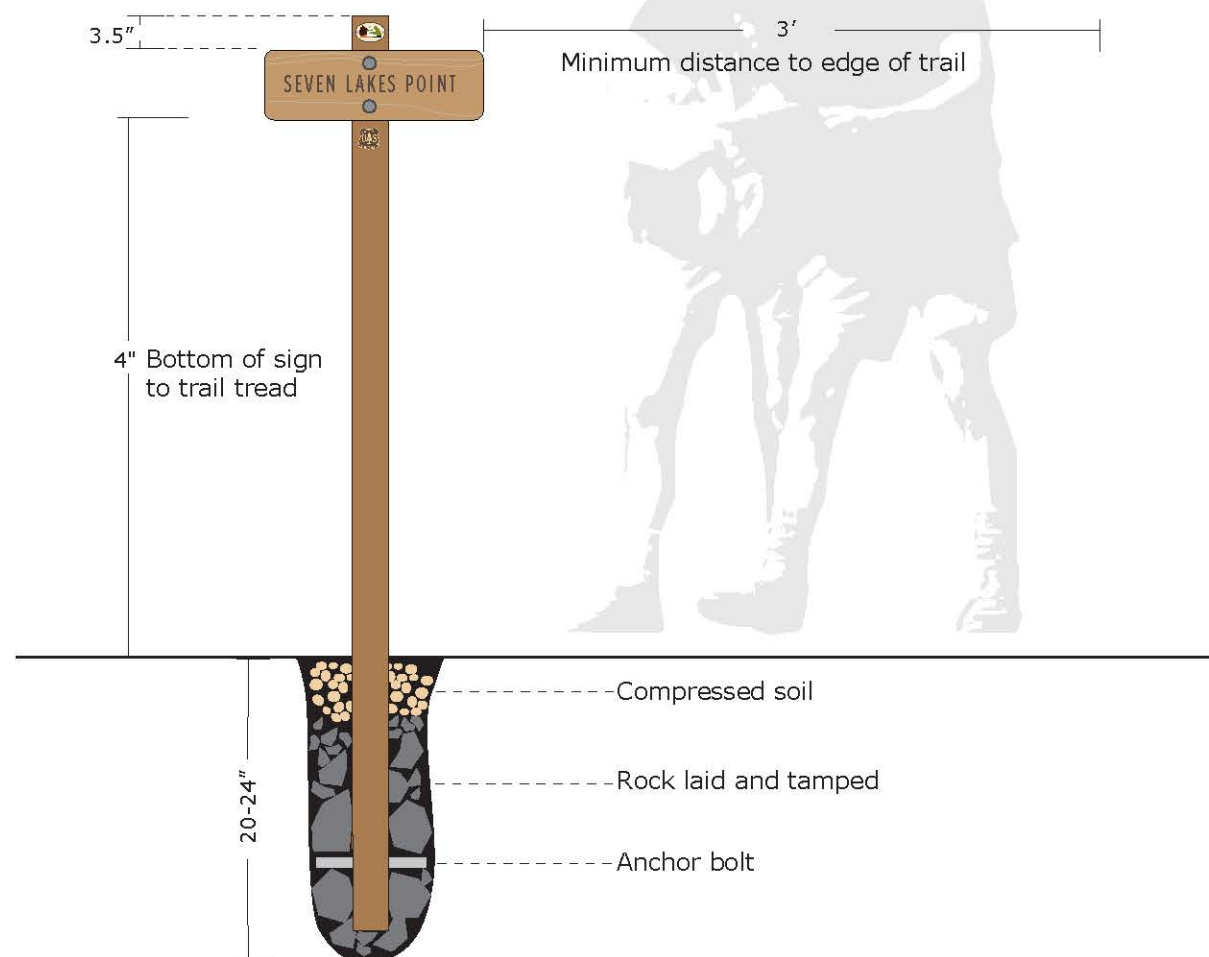
BACK

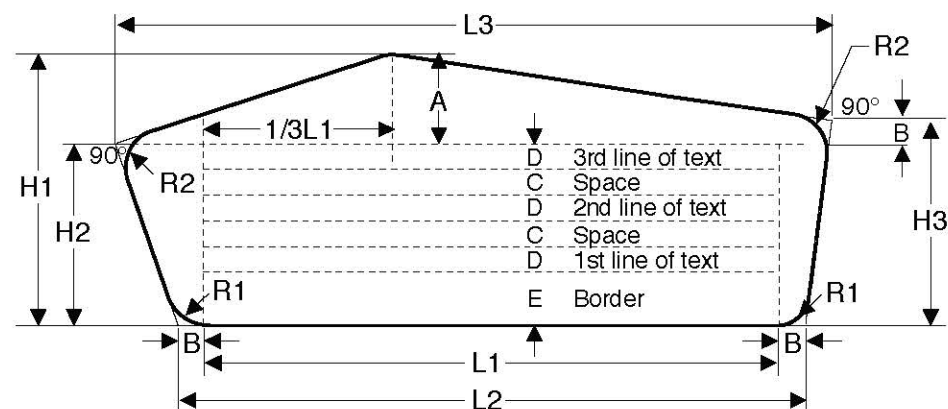


LEFT SIDE



FRONT





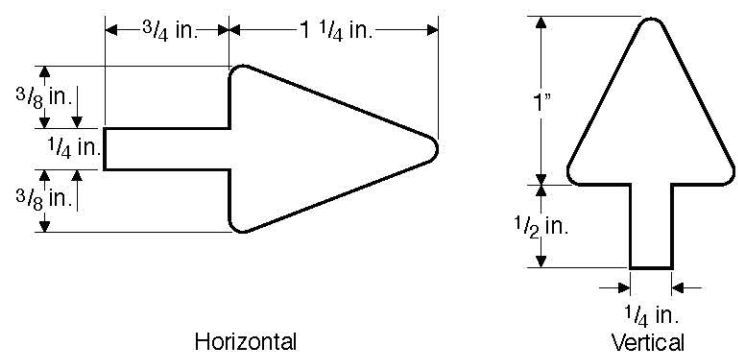
Text layout dimensions (inches)

Sign number	H1	H2	H3	L1	L2	L3	A	B	C	D* text	E	R1	R2
TDW 1	10 2	7	8	22	24	27 2	3 2	1	1	1	2	1	1 2
TDW 2	14 2	11	12	22	24	27 2	3 2	1	1	1	2	1	1 2

**Notes**

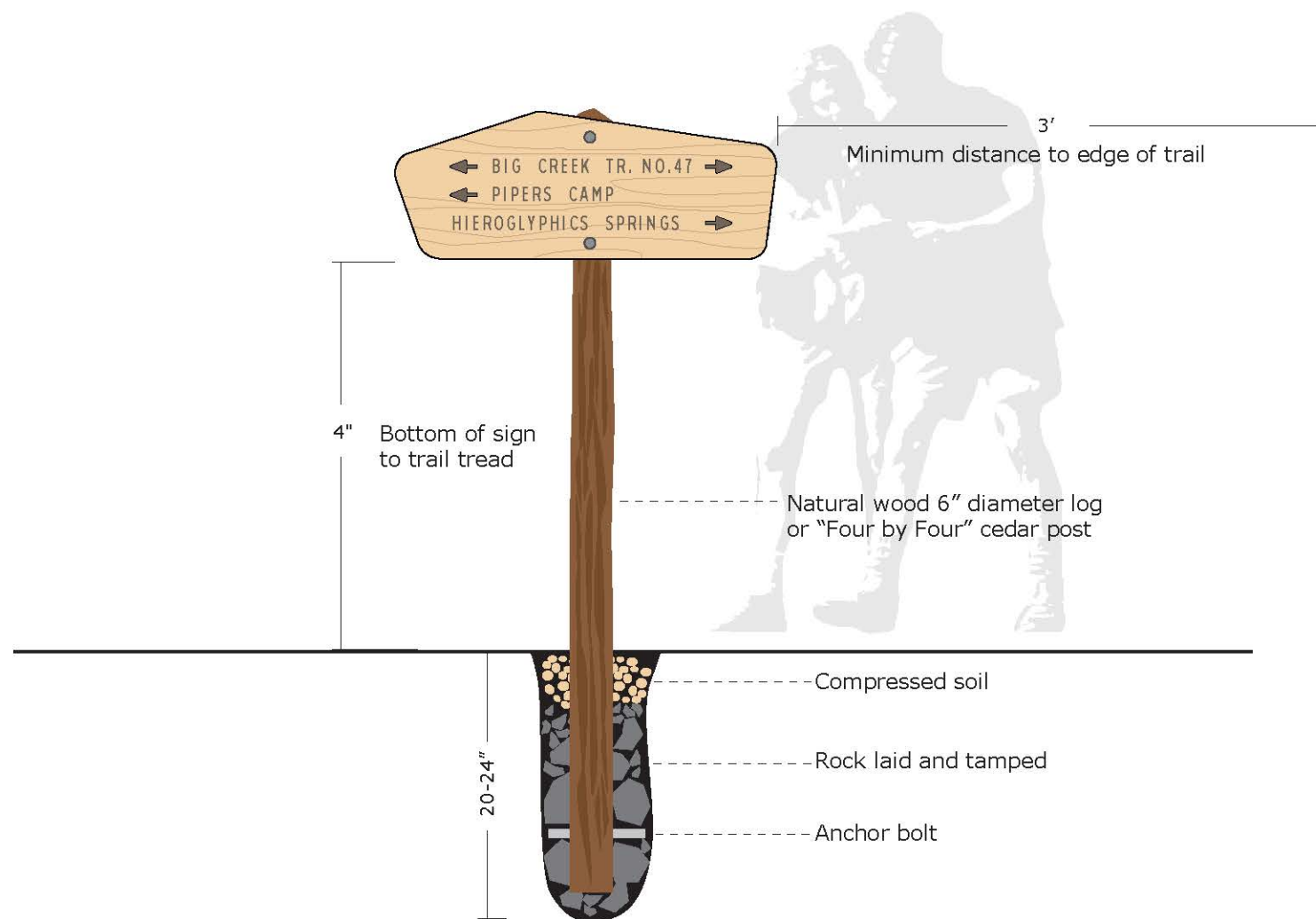
TDW-1 = Up to 3 lines of text with up to 25 characters per line.  
 For 1- and 2-line signs, center text lines in message box vertically.  
 TDW-2 = 4 or 5 lines of text with up to 25 characters per line.  
 Center text lines horizontally as a group in the message box.  
 Specify message.  
 No mileage is shown on Wilderness signs.  
 \*Dimension D, text size, refers to ASA Series C letters.

**Diagrams and text layout dimensions from Chapter 5B-2 and 5B-3 from the "Sign and Poster Guidelines for the Forest Service" (2013).**



**References**

For sign guidelines, see chapter 5.  
 For panel construction, see chapter 14.



**Sheet Description**

**TYPE 9c**

**Wilderness Directional**

**Scale**

n.t.s.

**Notes**

**BASIC INFORMATION**

Sign Material: Oak routed with scorched 1" letters.

Shape: TDW (Wilderness Shape).

Post Symbols: None.

Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8'). Or log of 6" diameter.

**INSTALLATION**

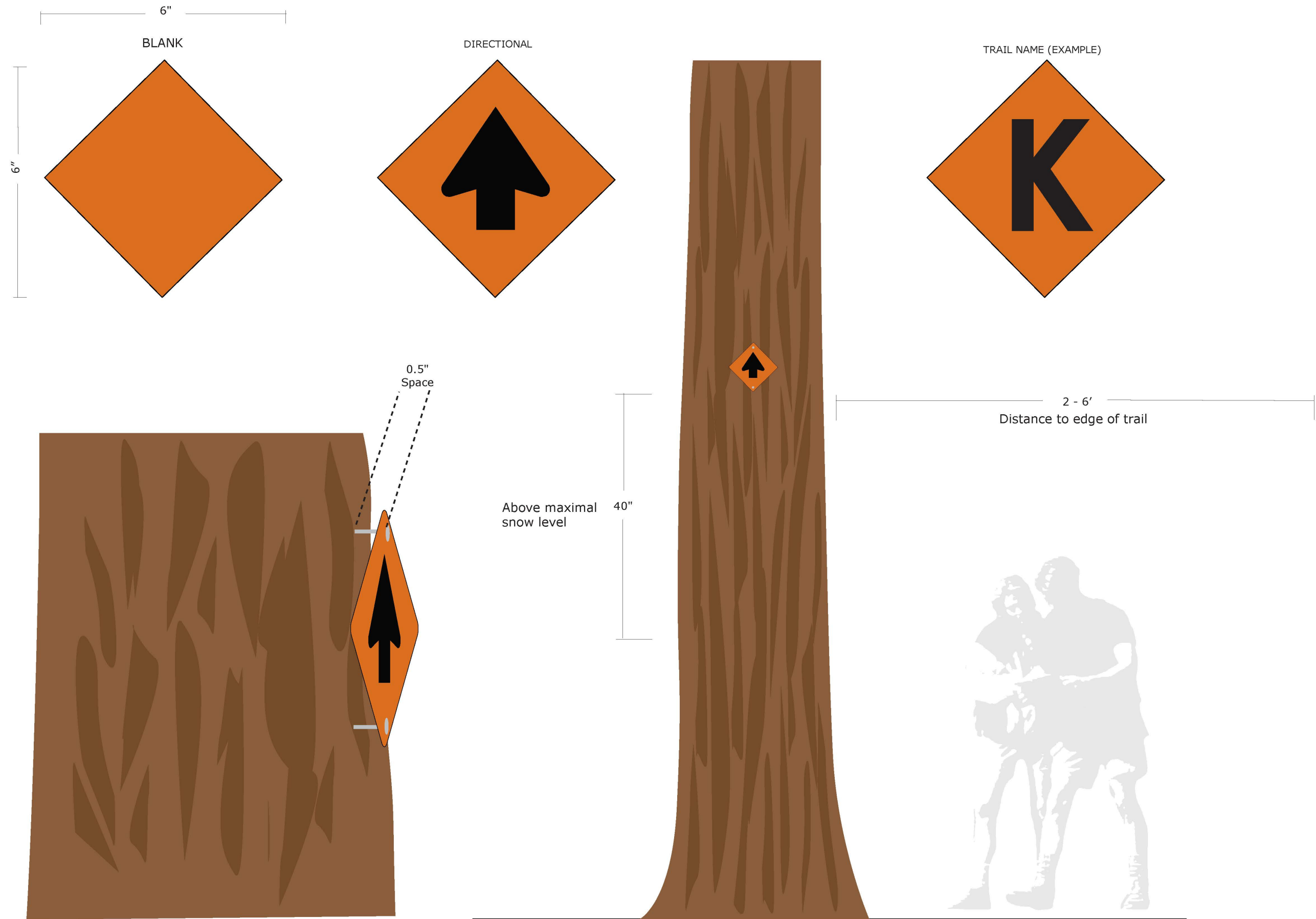
Minimum Mounting Height: 4 feet from trail tread to bottom of sign.

Minimum lateral distance: 3 feet from edge of sign to edge of trail.

Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

**SIGN PURPOSE**

Wilderness Directional signs within wilderness and primitive areas are installed ONLY when necessary to protect the resource or to provide for visitor safety. They are used only to identify trail legs at all system trail intersections where necessary.



Sheet Description

**TYPE 10a**

Orange Trail Blaze  
(winter motorized trails)

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Material: Metal or plastic-square diamond, orange. They may have arrows, or letter indicating direction or trail. In the case of trail letter, font is Century Gothic.

Post Material: Trees

**INSTALLATION**

Blazes should be installed with aluminum nails. Allow 12 mm (1/2 inch) or so behind the tag for additional tree growth.

Height: 40 inches above average maximum snow level. No more than 84 inches above current snow level.

Lateral distance: 2 to 6 feet minimum lateral distance from edge of trail tread to sign.

**SIGN PURPOSE**

The Orange Trail Blaze is used to keep motorized users on course and shall be placed at all intersections and locations on the groomed motorized trail where location could be uncertain.

Sheet Description

**TYPE 10b**

Dark Blue Diamond Blaze  
(non-motorized, groomed  
winter trails)

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Material: Metal or plastic  
square diamond, dark blue  
with 1/4 white retroreflective  
border.

Post Material: Trees

**INSTALLATION**

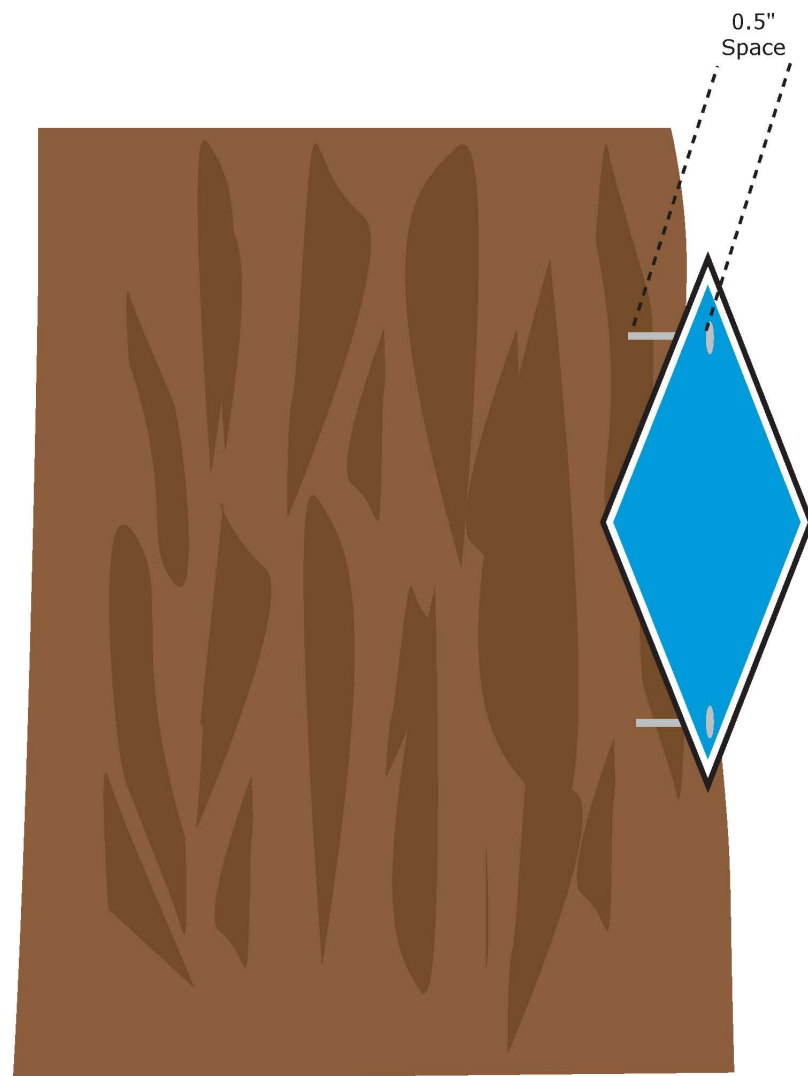
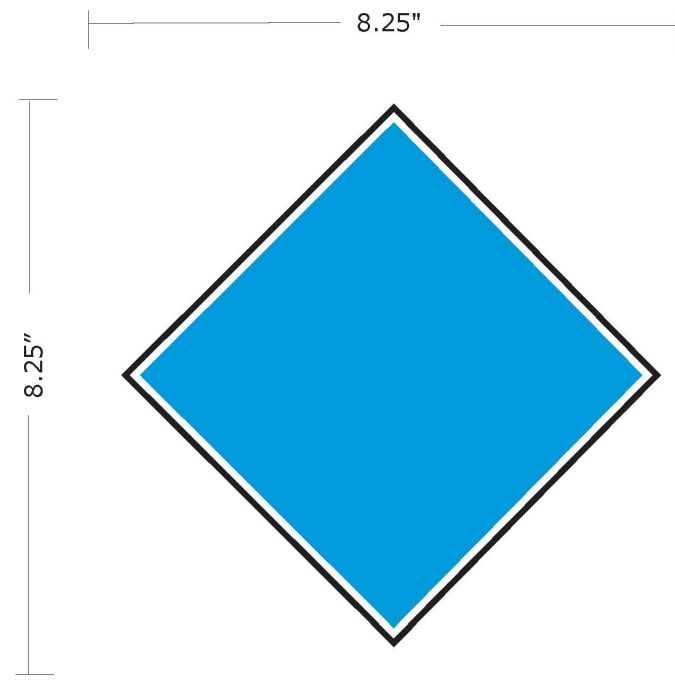
Blazes should be installed  
with aluminum nails. Allow  
12 mm (1/2 inch) or so  
behind the tag for addi-  
tional tree growth.

Height: 40 inches above  
average maximum snow  
level. No more than 84  
inches above current snow  
level.

Lateral distance: 2 to 6  
feet minimum lateral  
distance from edge of trail  
tread to sign.

**SIGN PURPOSE**

The Dark Blue Diamond  
Blaze is used to keep  
Nordic groomed trail users  
on course and shall be  
placed at all intersections  
and locations on the  
groomed trail where  
location could be uncertain.

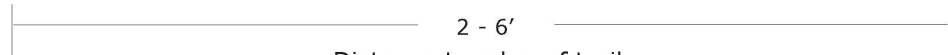


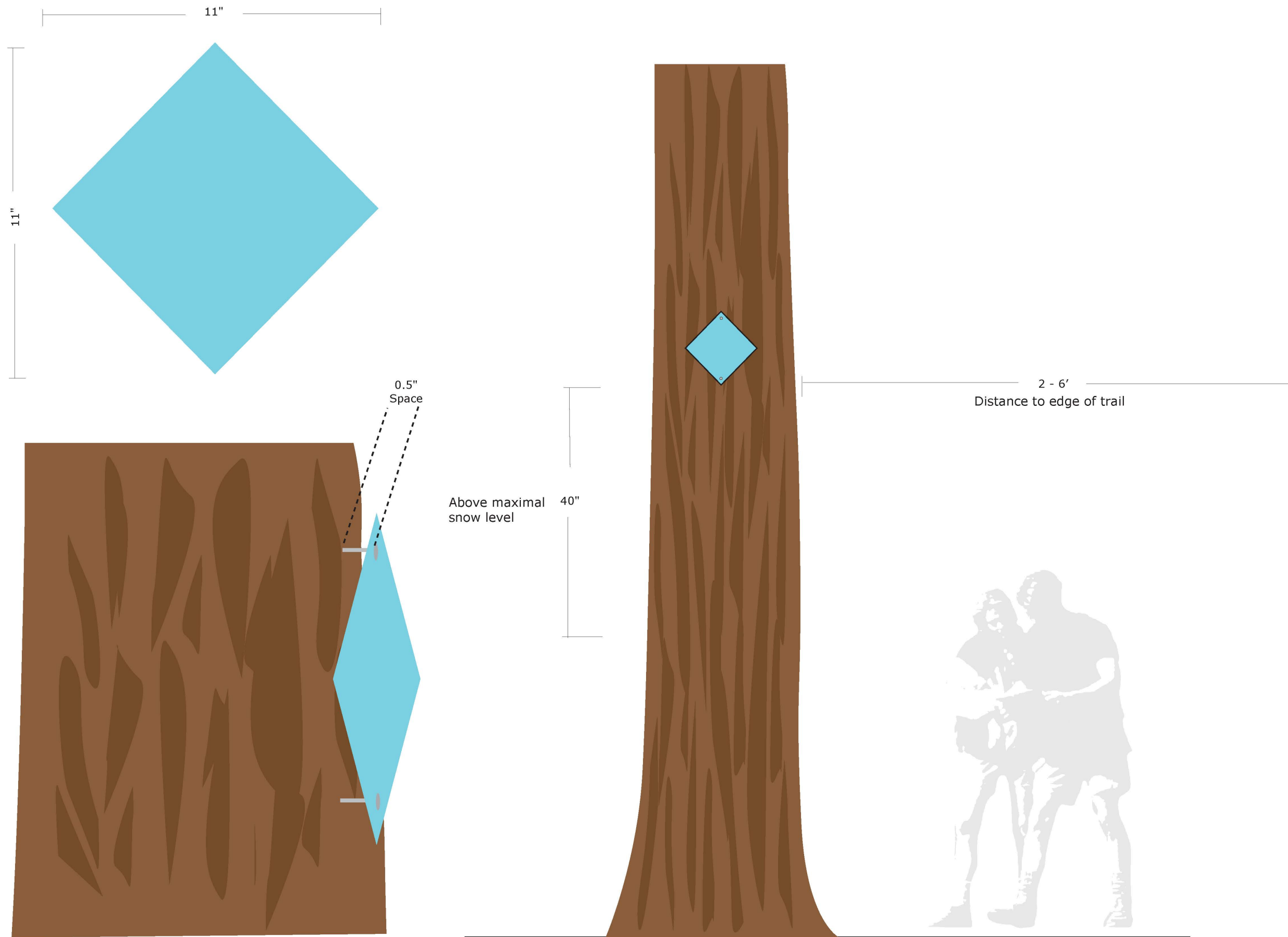
Above maximal  
snow level

40"



2 - 6'  
Distance to edge of trail





Sheet Description

**TYPE 10c**

Light Blue Diamond Blaze  
(non-motorized, ungroomed winter trails)

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Material: Metal square light blue in color

Post Material: Trees

**INSTALLATION**

Blazes should be installed with aluminum nails. Allow 12 mm (1/2 inch) or so behind the tag for additional tree growth.

Height: 40 inches above average maximum snow level. No more than 84 inches above current snow level.

Lateral distance: 2 to 6 feet minimum lateral distance from edge of trail tread to sign.

**SIGN PURPOSE**

The Light Blue Diamond Blaze is used to keep Nordic ungroomed trail users on course and shall be placed at all intersections and locations on the ungroomed route where location could be uncertain.

Sheet Description

**TYPE 11**

Carsonite Post

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Material: Carsonite

Post Symbols: Decals with recreation symbols. MLTS Logo & QR codes.

Dimensions: Height is dependent on the number of characters. 3 foot minimum to lowest number, letter symbol.

The width is 3.94 and the depth is .125 in the narrowest section and .370 in depth at the rounded edges.

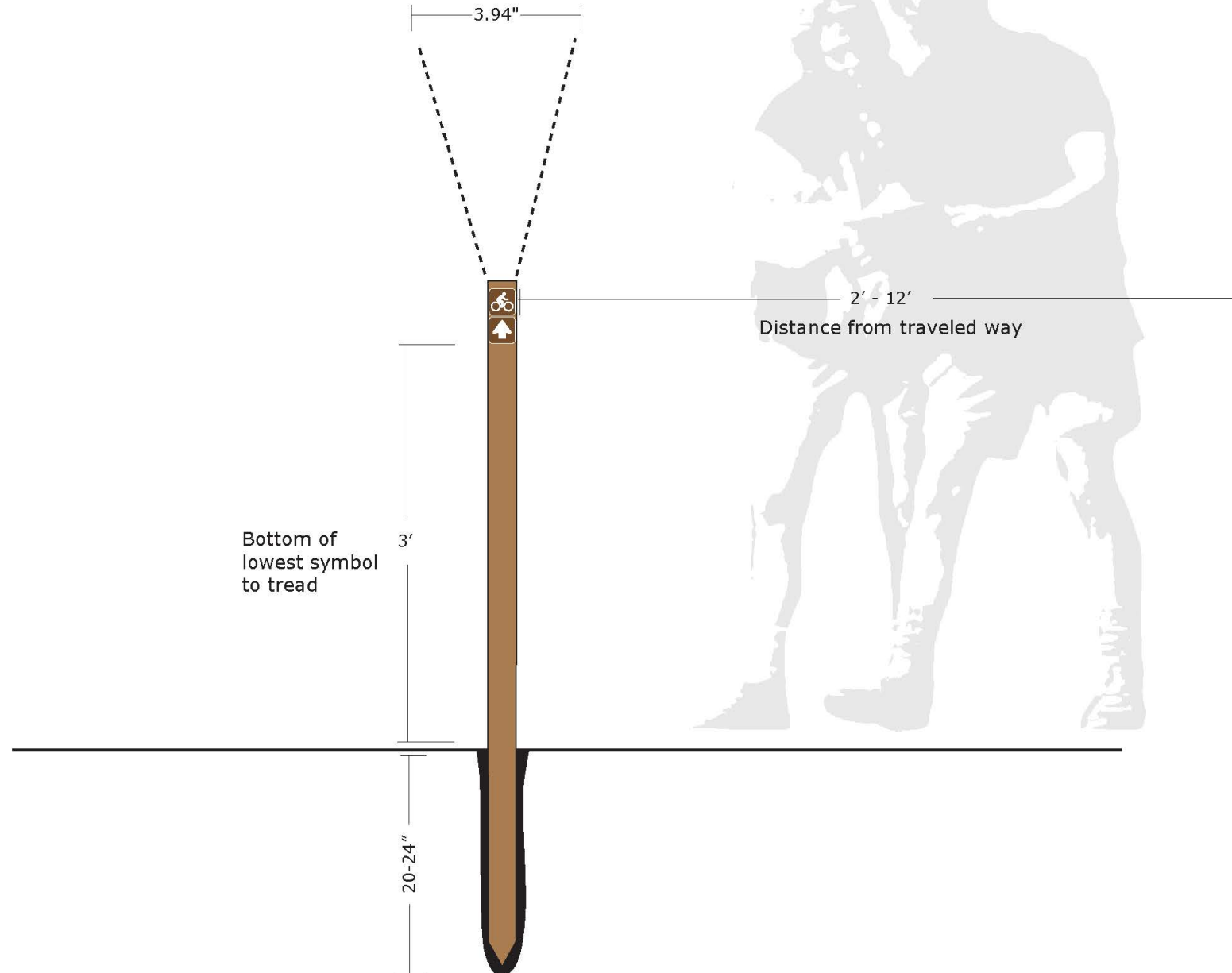
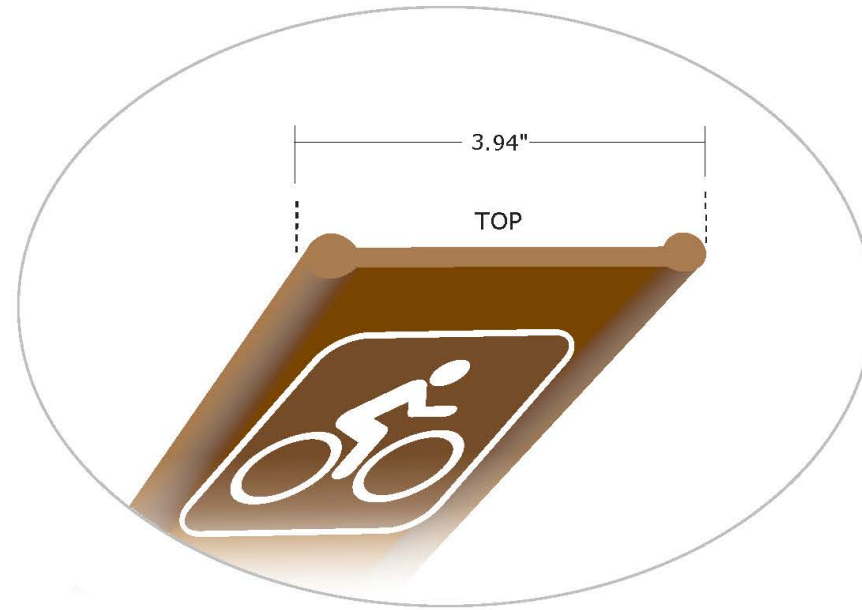
**INSTALLATION**

2 to 12 feet from edge of traveled way.

3 feet to the lowest decal.

**SIGN PURPOSE**

TBD as needed.



Sheet Description

**TYPE 12**

Winter Access/Egress

Scale

n.t.s.

Notes

**BASIC INFORMATION**

Material: Metal for the sign face and wood for the sled-shaped frame.

Post Material: Wooden sled design which will be filled with sandbags or snow for additional weight.

**INSTALLATION**

Assembled then delivered to the Sherwins Trailhead and Mill City in a truck. The Sherwins Winter Access sign is delivered to Tamarack and put in position by a snow cat due to sign weight.

Exact construction specifications may be subject to change as dictated by on-the-ground conditions.

**SIGN PURPOSE**

MLTS Winter Egress signs are used to inform users of legal recreation activities at each of the three locations and to encourage back-country users to utilize the Ranch Road Egress across the Snowcreek Golf course when exiting the Sherwins.



SIDE

FRONT

