

# Mammoth Lakes Trail System Wayfinding and Signage

**PHASE 3**  
**ARRA Contract AG-9702-C-10-0171**

**08.26.11**

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## Design Intent Drawings for Trail & Node Signage

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All ideas, designs, arrangements and plans indicated or represented by these drawings are owned by, and property of the The Town of Mammoth Lakes, CA and The United States Forest Service and were created, evolved and developed for use on and in connection with the specified project. None of such ideas, designs, arrangements or plans shall be used by or disclosed to any person, firm or corporation for any purpose whatsoever without the written permission of The United States Forest Service and The Town of Mammoth Lakes, CA. These drawings are considered design-intent and are not for construction. Written dimensions on these drawings have precedence over scaled dimensions. The further development and engineering of the design-intent drawings is expected to be shown in the Fabricator's submitted shop drawings. Contractors shall verify and be responsible for all dimensions and conditions on the job. Corbin Design should be notified of any variations from the dimensions and conditions shown by these drawings prior to the execution of any work, including changes to graphic designs or typography.

PREPARED BY



**corbindesign**



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# Fabrication Specifications

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## A. Quality Standards

The materials, products, equipment and performance specifications described within, establish a standard of required function, dimension, appearance, performance and quality to be met by the Fabricator.

## B. Structural Design

Details on design intent drawings indicate a design approach for sign structure but do not necessarily include all fabrication details required for the complete structural integrity of the signs, including consideration for static, dynamic and erection loads during handling, erecting, and service at the installed locations, nor do they necessarily consider the preferred shop practices of the individual Fabricators. Therefore, it shall be the responsibility of the Fabricator to perform the complete structural design and engineering of the signs and to incorporate all the safety features necessary to adequately support the sign for its intended use and purpose and to protect the Owner. Fabricator shall also be responsible for ensuring that all signs meet local, state and federal codes.

## C. Vandalism Design

Fabrication and installation design is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. All hardware and fasteners within reach shall be vandal resistant.

## D. Substitution

No substitution will be considered unless the Owner has received written request for approval. Fabricator may recommend equal or better equipment or method, but will be required, prior to the bid submittal, to provide full documentation establishing such a substitution's equality or superiority as measured in the following:

- compliance with the visual design intent;
- cost;
- ease of maintenance; and
- performance.

The burden of proof of the merit of the proposed substitute is upon the Fabricator. The Owner's decision of approval or disapproval of a proposed substitution shall be final.

## E. Material Handling

The Fabricator is to pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage by every cause. Fabricator

shall provide clear and legible identifying information on all product packaging to ensure proper on-site identification and installation.

## F. Sign Specifications: Construction Methodology

The drawings call for a variety of fabrication techniques. Fabricators are given leeway to fabricate the signs to meet the intent of the designs depicted by the drawings.

1. Because different systems of extrusions may result in slightly different dimensional requirements, the total height and width dimensions described in the sign construction on the drawings may be considered "nominal" for the purposes of bid submittal.

2. Sign faces are to be fabricated using aluminum plate of varying thicknesses, as specified on design intent drawings, with a minimum thickness of .125 inches unless otherwise noted.

3. Sign cabinet seams shall be sealed to ensure they are watertight.

4. All finishes are to be satin finish, free from fading, peeling or cracking. Paint preparation of all exterior metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or AkzoNobel published recommendations. Acceleration of the drying process is not allowed.

5. Except where approved otherwise by Owner, conceal fasteners.

6. Any sign faces smaller than 8' by 20' are to be fabricated from 1 piece of seamless material.

7. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.

8. Provide drain holes as needed to prevent accumulation of water within signs. Holes must be inconspicuous and be in inconspicuous locations; holes must be located such that drainage does not occur onto signs, or other surfaces subject to staining. Provide internal system of baffles to prevent "light leaks" through drain holes of illuminated signs. Provide color-coordinated insect screening over drain holes.

9. Non-illuminated sign faces are to have lettering and graphics created as surface-applied vinyl typography

using Avery or 3M exterior grade, minimum 5-year warranty, unless otherwise noted in the design intent drawings.

10. Non-illuminated inserts will minimally be printed at 1200 DPI using pigment-based UV inks on a white, satin finish UV-coated photo paper, with a matte UV over-laminate. The thickness of the photo paper must be heavy enough such that no wrinkles will occur once installed.

11. Fiberglass panels with embedded artwork are to be fabricated using a 1/8" thick fiberglass panel with permanently embedded digital graphics (printed at a minimum of 1200 DPI using exterior inks). The panel must be a solid, one-piece panel with all graphic elements inseparable from the fiberglass in which they are embedded (Pannier, 1-800-544-8428).

12. Visible metal joints must adhere to a fit tolerance of .01".

## G. Fonts/Typefaces

The fonts used for this project were selected specifically for this project by the Designer and Owner, and include those listed in the graphic standards.

It is the responsibility of the fabricator to purchase the fonts. No substitution of any other typefaces may be made. Under no circumstances are typefaces to be electronically distorted ("squeezed" or "extended") for purposes of fitting to the specified sign or general alteration of the sign face composition unless noted in the drawings. This includes (but is not limited to) stretching, squeezing, tilting, outlining or shadowing.

1. All letterforms, symbols or graphics shall be reproduced either by photographic or computer-generated means. Hand-cut characters are not acceptable. Cutting shall be done in such manner that edges and corners of finished letterforms will be sharp and true. Letterforms with nicked, cut, ragged, rounded corners, and similar disfigurements will not be acceptable.

2. All letterforms shall be made from material and gauge as indicated on design intent drawings. Typefaces shall be replicated as indicated on the drawing.

3. Ligatures are to be turned off.

4. Apostrophes are to be used, not footmarks. Note that there is a difference in most fonts.

5. Silk-screened and vinyl copy is to match the sheen of the copy panel background (satin). Edges of letters shall be straight and corners sharp. Surface of letters shall be uniform in color finish, and free from pinholes and other imperfections.

6. Silk-screened images shall be executed with photo screens prepared from original art. No hand-cut screens will be accepted. Original art shall be defined as artwork that is a first generation reproduction of the specified art.

7. Silk-screening shall be highest quality, with sharp lines and no sawtooths or uneven ink coverage. Screens shall be photographically produced. Application of inks through screens shall consist of one flood pass and one print pass. Images shall be uniform in color and ink thickness. Images shall be free from squeegee marks and lines resulting from improper print stroke or screen off contact height. Signs shall be placed in adequate drying racks with minimum of 2 inches between racks for ample airflow. Sign racks shall have system of forced airflow between layers to provide proper drying and curing of inks. After signs have dried completely according to the ink manufacturer's time allowance, signs may be packaged.

8. Letterforms shall be aligned so as to maintain a base line parallel to the sign format, with margins and layout as indicated on design intent drawings and approved shop drawings. Vertical strokes shall be plumb.

9. Vinyl graphics and letterforms shall be computer-cut.

# Installation

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## A. Permits and Variances

Fabricator shall be knowledgeable of relevant local code requirements and honor same in fabrication and installation. Where applicable, it is the responsibility of the Fabricator to secure any and all necessary permits for signage installation. It is the responsibility of the Owner to secure variances, should any be required. It is the Owner's responsibility to call the appropriate agency to have all underground utilities properly located and marked. Any damage to below-grade utilities or structures for which the Owner has provided adequate location information is the responsibility of the Fabricator.

## B. Site Visit

Prior to installation of the signs, the Fabricator is to visit the proposed site to observe existing conditions and verify all signage required and its location with Owner. At this time the locations shall be staked using a non-permanent visible device such as spray chalk or non-permanent paint. Certain signs may be located on sloped grades and may require uneven footings for each post. Site-verify all locations to determine special requirements for footing templates, if required.

The final Sign Message Schedule and Sign Location Plan shall be consulted together and shall be approved by the Owner to determine the precise location for each sign. Any necessary adjustments will be made with the approval of the Owner.

## C. Masonry/Footings

Any concrete bases for signage are to be poured in place and footings are to extend beneath the frost line, or deeper to meet local code. All footings or bases should be poured within a form and level with grade unless otherwise specified in the design intent drawings. It's recommended that the concrete be floated by machine or hand before finishing in order to embed larger aggregates especially when part of the footing or base extends above ground. Concrete surface should have a smooth or brushed finish grade appearance. All concrete bases and footings should be edged to break any bond with the form and create a neat appearance. All forms should be removed once the concrete has properly cured. Concrete and reinforcement specifications shall be shown on shop drawing submittals. The Fabricator is responsible for the necessary templates, mounting plates and hardware for concrete and masonry bases. A minimum 1' rock bed with landscape edging or concrete pad must be added around each concrete base as protection from landscaping maintenance.

All masonry (concrete block, poured concrete, brick, slab, veneer, mortar, etc.) is to be properly treated and protected to maintain the structural integrity of the masonry work with exposure to all environmental conditions found at the site. For exposed or visible masonry, this shall include the application of protective sealers or similar finishes to diminish the effects of close-proximity sprinkling or irrigation systems.

Signs are to be mounted on J-bolt footings, centered on the concrete base or footing, and engineered per code, unless otherwise specified in the design intent drawings.

## D. Wind Load

Signs, banners and mounting devices shall be engineered to withstand a minimum 30-psf wind load normal to the sign, or greater as per local code, in addition to the weight of the sign. The Fabricator shall determine appropriate method of anchoring signs to the locations specified to meet these requirements as well as all local code requirements.

## E. Mounting

All signs to be mounted level and true. All exposed hardware is to be touch-up painted on site as required. It is preferred that all bolts, nuts, washers, or other fasteners shall be stainless steel. However galvanized steel is acceptable, so long as all exposed surfaces are sealed.

While sign type drawings may specify or indicate possible mounting and/or mounting hardware details, the Fabricator will be able to substitute equal or better hardware and techniques, based upon their experience with similar mounting situations and as long as the visual appearance of the sign is not compromised from that shown in the design intent drawings.

All signage products must be installed such that there are no misalignments between visible components. Sign elements intended to be removable or changeable after installation must function as intended without binding, sticking or blocking. It will be the responsibility of the successful Bidder to correct any installation misalignments at no charge.

Fabricator and their installers are expected to have knowledge of ADA mounting guidelines and city zoning codes, general sign locating practices, and any particular unique installations defined by Designer. It is the desire of the Owner that the Fabricator follow these guidelines as well as architectural cues in installing for the best visual placement, keeping a reasonable distance from protruding objects. Any signage that is improperly located is to be moved to the proper

location by the Fabricator, and repairs to wall surfaces and signage are to be at the Fabricator's expense.

If the installers are unable to make a decision about any sign locations, they can contact the Designer, providing a graphic representation of the questionable area, or contact the Owner for on-site options.

## F. Punchlist

It is required that the Fabricator complete a walk through with the Owner immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner.

## G. Signage Warranty

The Fabricator is to provide a written five (5) year full replacement warranty to the Owner that all signs will be free of defects due to craft work and materials including, but not limited to:

- Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
- Corrosion appearing beneath paint surfaces of panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).
- Corrosion of fasteners.
- The assemblies not remaining true and plumb on their supports.
- Fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period.
- Peeling, delamination or warping ("oil canning").
- Repair and reinstallation of signage due to failed mountings.









Fabricator shall also extend in writing to the Owner all manufacturers' warranties.

## H. Repair or Replacement

Without additional cost to the Owner the Fabricator shall repair or replace, including installation, any defective signs or hardware which develop during the warranty period and repair any damage to other work due to such imperfections. The Fabricator will be required to fully replace all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that were submitted to the Fabricator upon award of contract.

**COLOR PALETTE**

Fabricator is responsible for supplying samples for all colors within the palette.

								
	01 Gold	02 Mammoth Lakes Trail System	04 White	05 Brown	07 Red	08 Yellow	09 Black	10 Orange
Pantone Matching System:	---	---	---	---	---	---	---	---
Matthews Paint:	MP06916	MP00811	MP11477	MP00857	---	---	---	---
High Performance opaque vinyl:	---	---	3M White 7125-10	---	---	3M Sunflower 7725-25	3M Black 7725-12	3M Bright Orange 7725-14
Engineer grade reflective sheeting:	---	---	White 3290	---	3M Red 3272	3M Yellow 3271	---	---

**Fabricator is responsible for matching all colors and materials as specified and are required to provide color and material samples for approval.**

**CAUTION!**  
CONSISTENT AND ACCURATE COLOR REPRODUCTION IN THIS DOCUMENT CANNOT BE ASSURED.

The Coated Pantone Matching System®, Matthews and/or Akzo Nobel Paint system is used for specifying signage color matches. (In the absence of actual sign material color chip reference sets, actual specified product color swatches should be referenced for color matching.)

Shown here are approximations of the primary signage background colors and supporting accent colors. Actual color finishes on signage must be matte or low luster (not shiny or glossy) and exclusively a premium acrylic polyurethane.

Signage paints produced by MPC Matthews Paint and Akzo Nobel Paint Company are to be the standard reference.

Vinyl Films from 3M and Avery Graphics are to be the standard.

*Color application varies per sign type. Refer to drawings for appropriate application.*

*NOTE: See message schedule document for actual sign messages.*

**Steel Specifications**

Fabricator is responsible for supplying samples.



06 Steel Finish

**Steel Type:** Corten Structural Steel  
**Surface Treatment:** Lightly wire brush to remove scale. Clean with acetone to remove construction markings.  
**Finish:** Natural, wiped with light coat of oil  
**Fasteners:** Steel with blackened finish

**Steel Supplier:** IMS Industrial Metal Supply Company  
 8300 San Fernando Rd.  
 Sun Valley, CA 91352 Phone: 818-729-3333  
 Fax: 818-729-3334  
 Email: www.imsmetals.com  
 Contact: Neil Sherman

**SYSTEM ARROWS**



**TYPOGRAPHY (Editable)**

Fabricator is responsible for acquiring all project-related fonts.

**Century Gothic Bold**

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1 2 3 4 5 6 7 8 9 0

**Century Gothic Regular**

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1 2 3 4 5 6 7 8 9 0

**Clearview Highway 1B**

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1 2 3 4 5 6 7 8 9 0

Sheet Description

**Graphic Standards**

Scale

n.t.s.

Color Code

- 01  Gold
- 02  Mammoth Lakes Trail System
- 04  White
- 05  Brown
- 06  Steel Finish
- 07  Red
- 08  Yellow
- 09  Black
- 10  Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

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**SYSTEM SYMBOLS**

The fabricator will be provided with scalable electronic artwork for all symbols in a vector art (outlined) format.



Hiking  
[Hike]



Dogs on Leash  
[Dog]



Cycling  
[Bike]



Hospital  
[Hosp]



Restrooms  
[Rest]



Picnic Area  
[Pic]



Public Parking  
[Park]



Transportation  
[Transit]



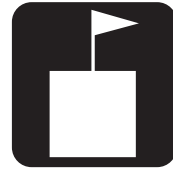
Drinking Water  
[Water]



USFS Campground  
[Camp]



Library  
[Lib]



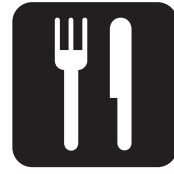
School  
[Sch]



Point of Interest  
[POI]



Lodging  
[Lodge]



Food Service  
[Food]



Information  
[Info]



Pack Station  
[Pack]



Playground  
[Play]



Skateboard  
[Skate]



Museum  
[Museum]

**SYSTEM REGULATORY SIGNS**



Equestrian Crossing



Caution Intersection



Hill Slow



Speed Limit 15MPH



Speed Limit 5MPH



Stop



Yield

**SYSTEM LOGOS**



U. S.  
Forest Service



Town of  
Mammoth Lakes

Sheet Description

Graphic Standards

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

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# Sign Type Array

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

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TYPE 1  
Portal Identification Marker

TYPE 2  
Trail Information Kiosk

TYPE 3  
Park Identification Marker

TYPE 4/6  
Information/ Guide  
Combination Sign



TYPE 5  
Vehicular Guide

TYPE 6  
Trail Guide  
(primary)

TYPE 6a  
Trail Guide  
(secondary)

TYPE 8  
Regulatory



# Post and Beam Assembly Details

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

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**MECHANICAL ASSEMBLY DETAIL**

FABRICATOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.

**MECHANICAL FASTENERS**  
 1/2" steel nuts, washers and bolts. Bolts to extend beyond nut by 1/2" minimum. All bolt heads to face inside of beam. All fasteners to have blackened finish.

**POST EXTENSION**  
 Structural steel wide flange beam with custom cut decorative end detail

**STRUCTURAL BEAMS**  
 Structural steel wide flange beam.

**MOUNTING BRACKET**  
 Steel plates welded to beam. Plate thickness to match steel beam wall thickness.

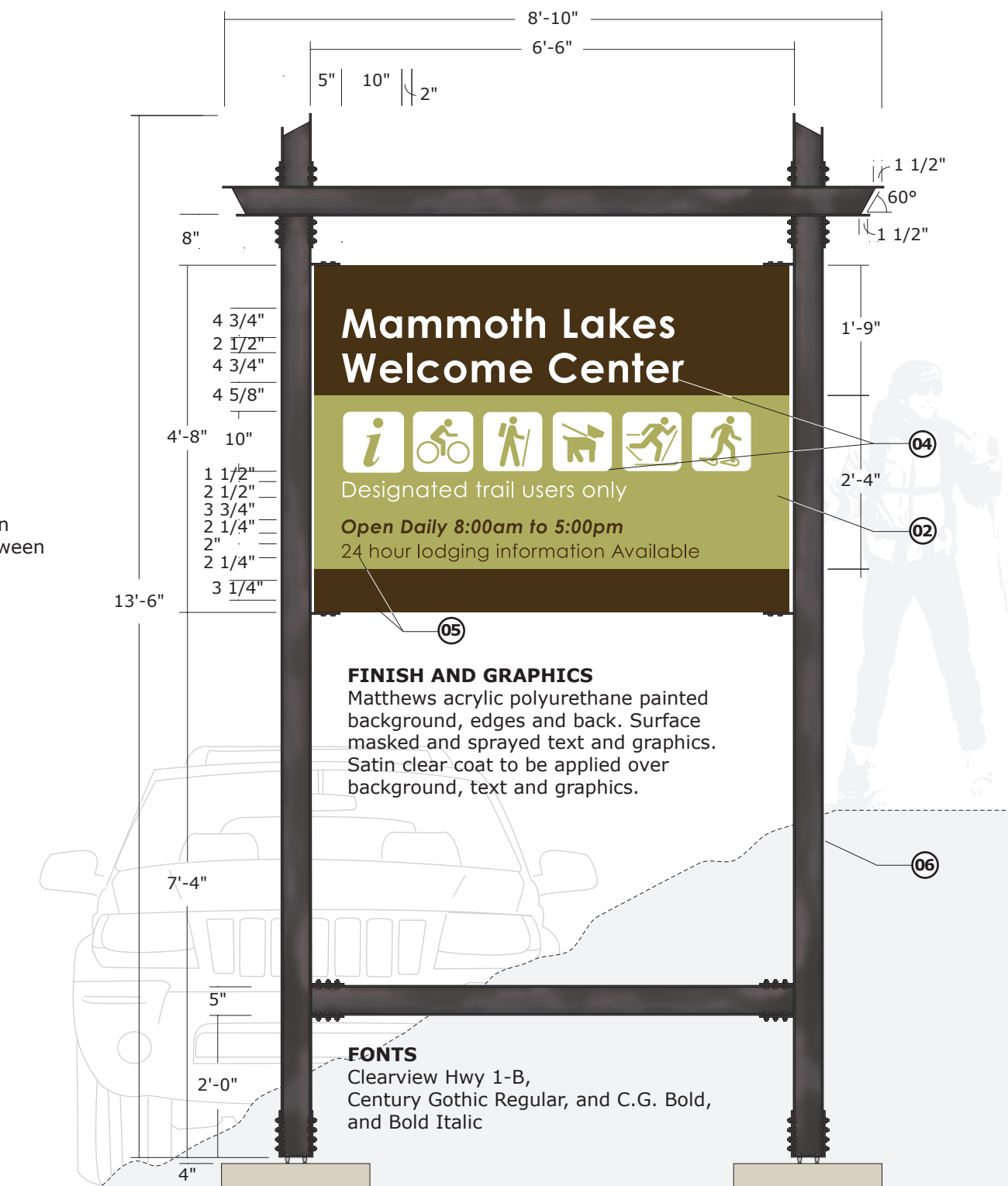
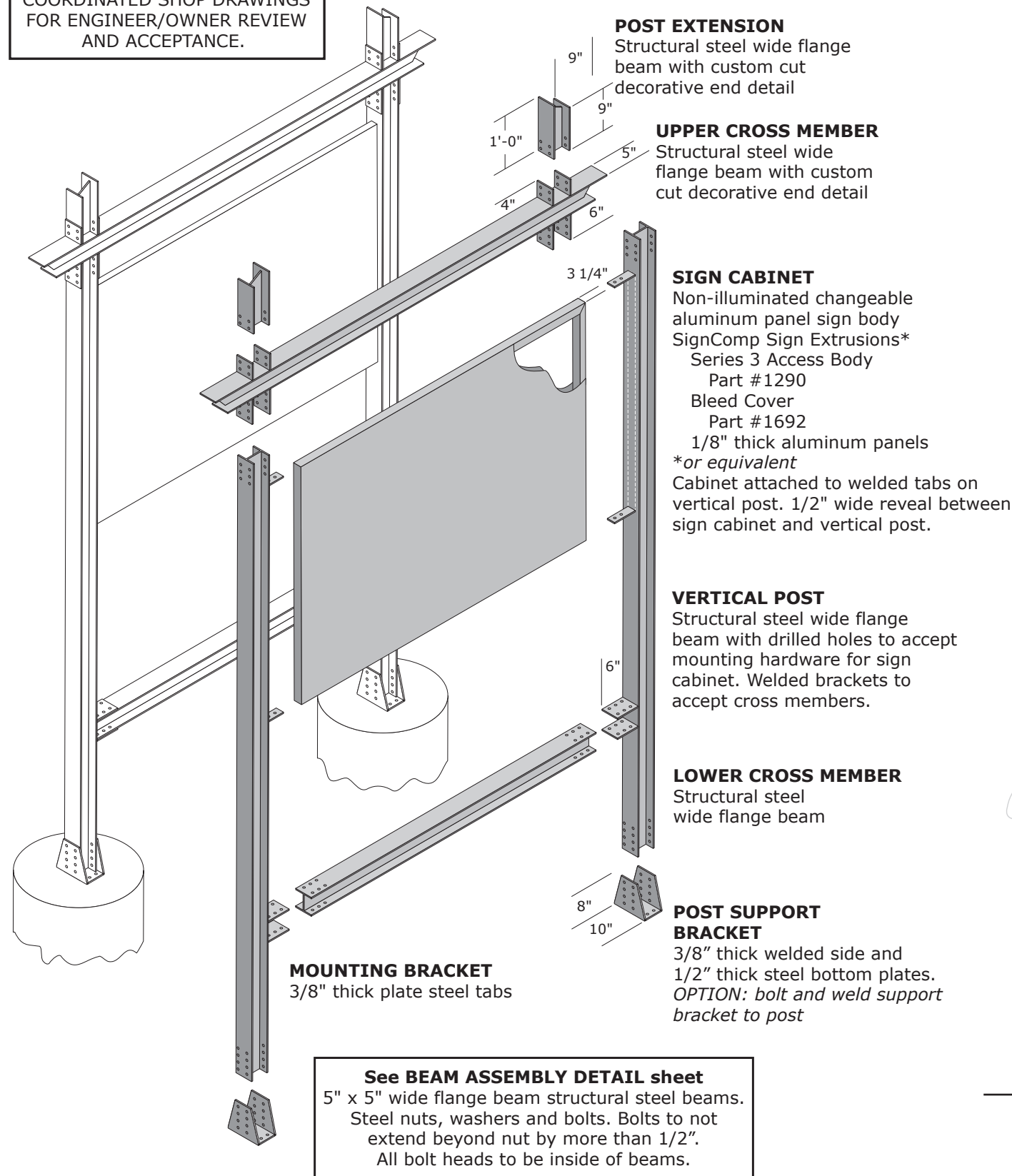
**UPPER CROSS MEMBER**  
 Structural steel wide flange beam with custom cut decorative end detail

**FABRICATION NOTE**  
 Partially welded bracket assemblies are acceptable. Brackets may be welded directly to beams and nuts/bolts applied to match design intent.



Project Prototype

FABRICATOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.



Sheet Description

**TYPE 1**

Portal identification Marker

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

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# TYPE 2

Trail Information Kiosk  
(front elevation)  
(ARRA version 2)

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

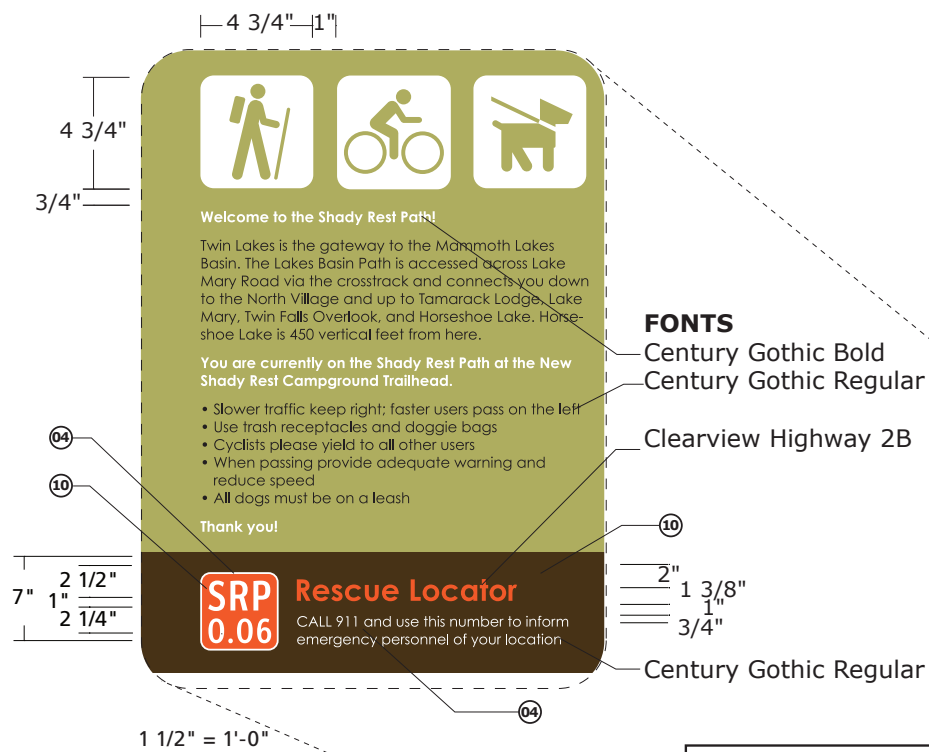
Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

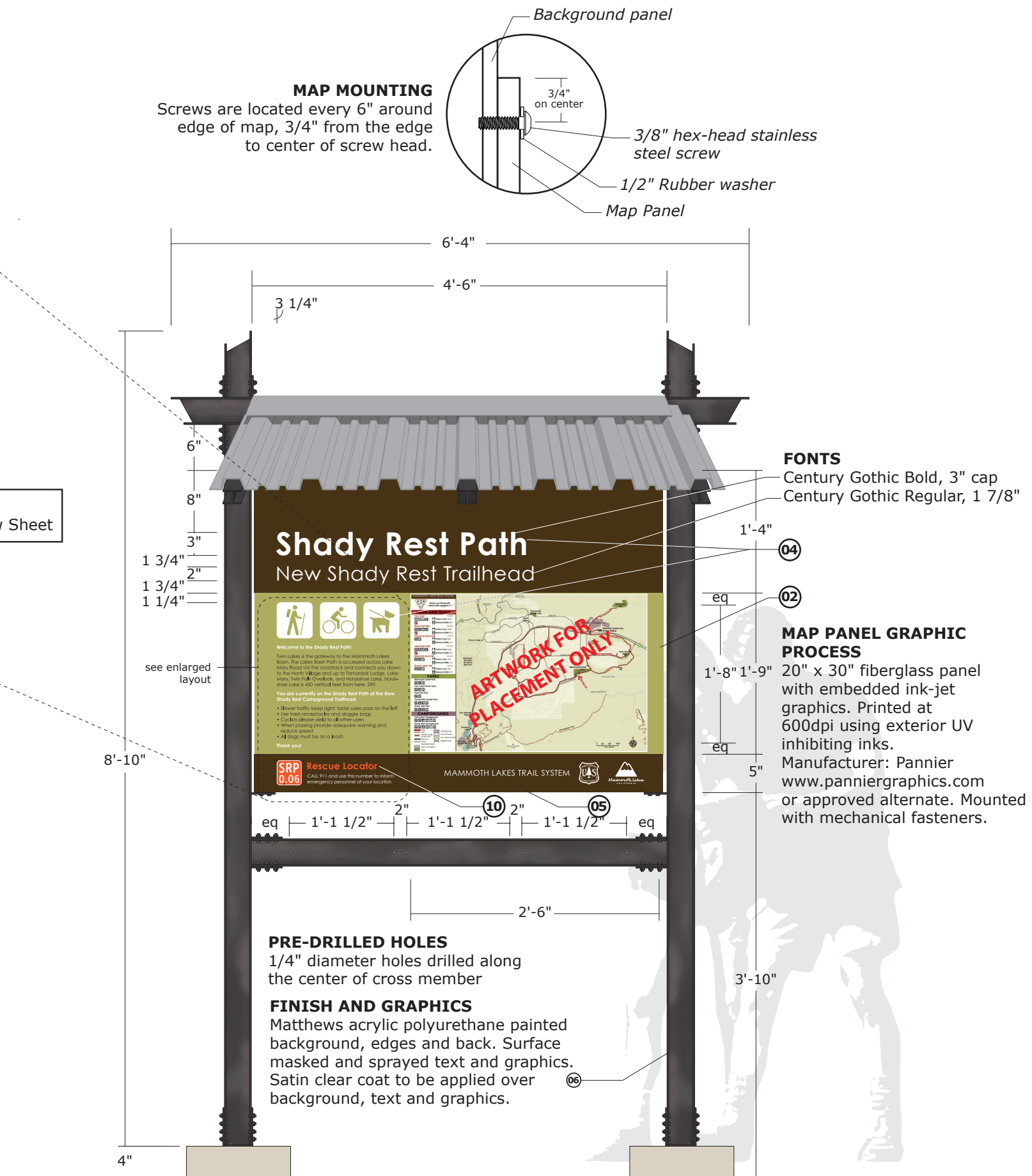
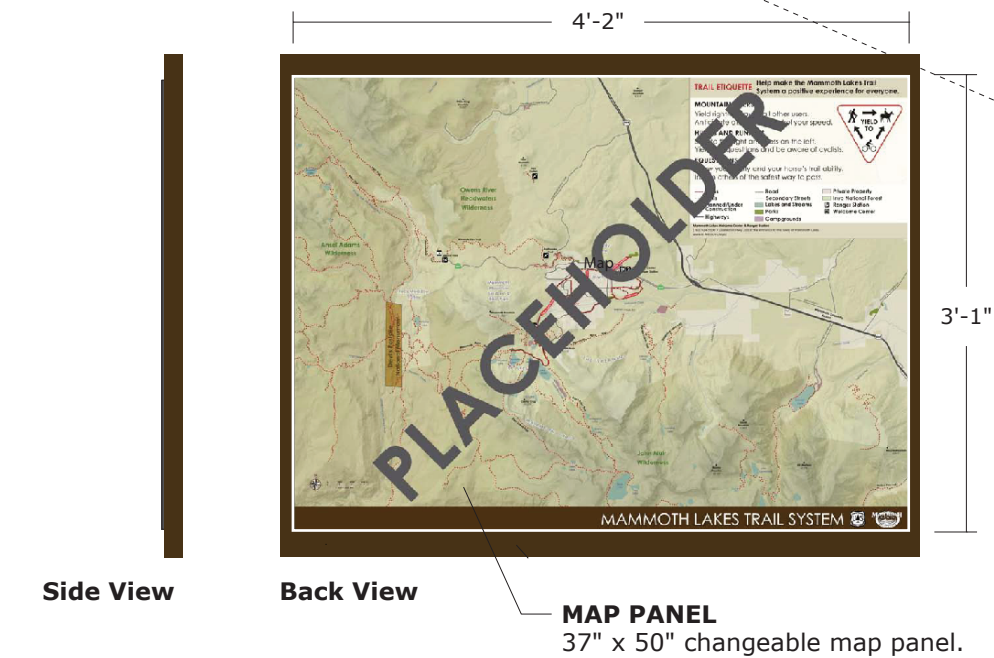
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**EXPLODED VIEW**  
See Type 2 Exploded View Sheet



# TYPE 2

Trail Information Kiosk  
(exploded view)

(ARRA version 2)

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

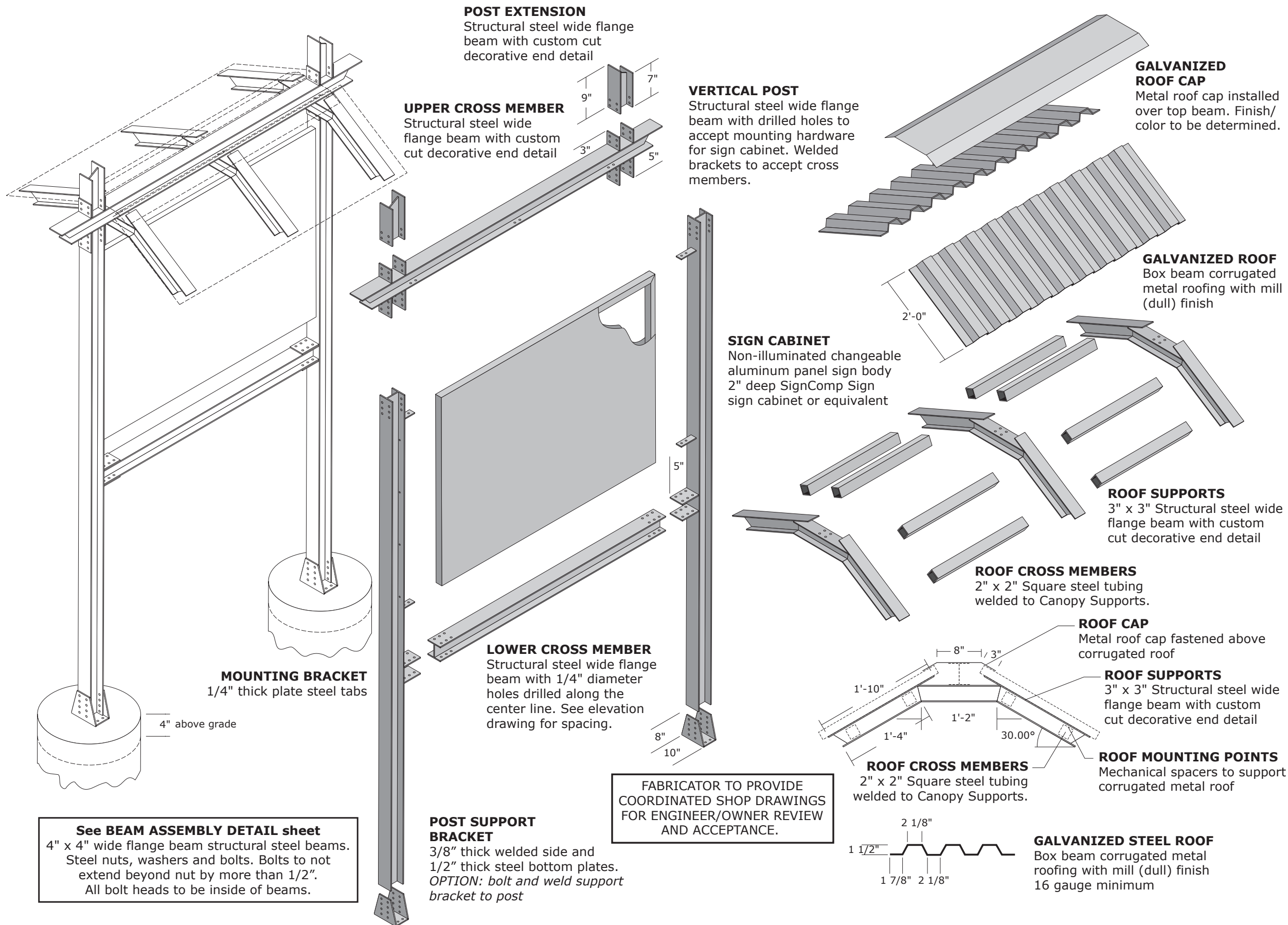
Date Description

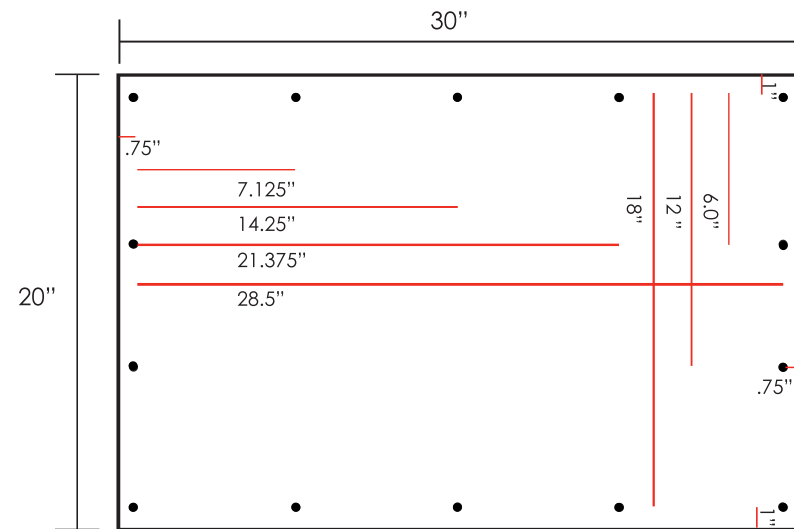
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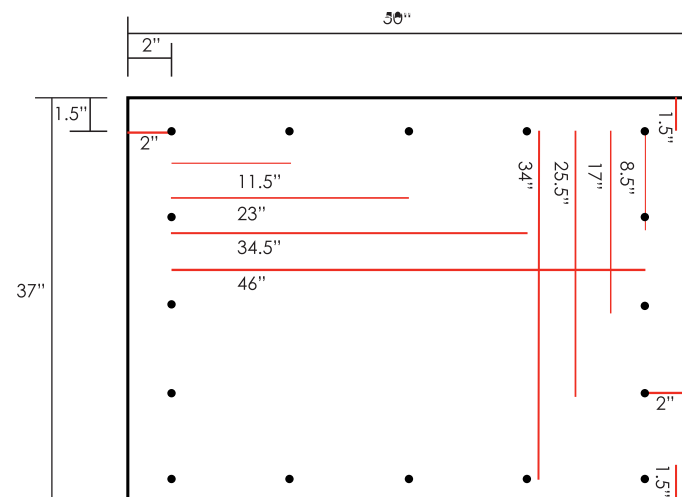


**SIGN TYPE 2  
FRONT PANEL SCREW PATTERN SPECIFICATIONS:**

Front Map: 20" x 30"

Horizontal Screw Pattern Spacing (top and bottom of panel): 5 screws  
Vertical Screw Pattern Spacing (left and right of panel): 4 screws

Horizontal screws holes are set in .75" from edge of panel  
Vertical screw holes are set in 1" from edge of panel

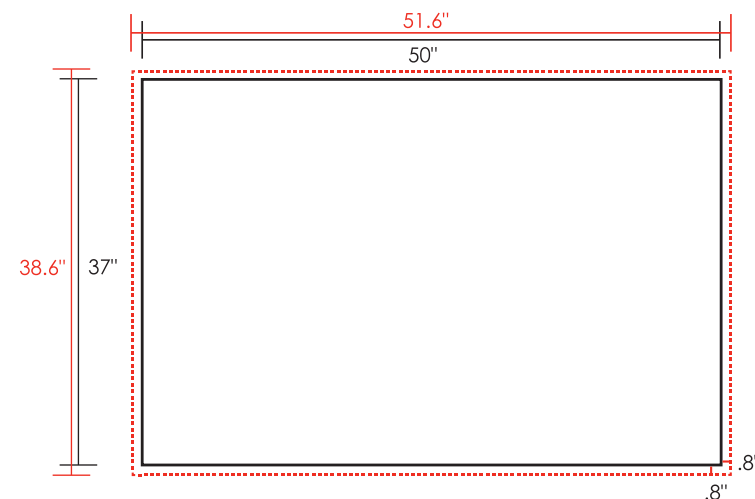


**SIGN TYPE 2  
BACK PANEL SCREW PATTERN SPECIFICATIONS:**

Back Map: 50" x 37"

Horizontal Screw Pattern Spacing (top and bottom of panel): 6 screws  
Vertical Screw Pattern Spacing (left and right of panel): 4 screws

Horizontal screws holes are set in .2" from edge of panel  
Vertical screw holes are set in 1.5" from edge of panel



**SIGN TYPE 2  
BACK PANEL PRINT BLEED AREA**

File Dimensions: 51.6" x 38.6"  
Trim Dimensions: 50" x 37"  
Bleed Dimensions: .8"

NOTE: Files will be created anticipating that a border cannot be accurately created during the final cut/bleed process.

The final file will be exported as a vector PDF with 300 dpi resolution images imbedded in the file. The file will be delivered in either a CMYK or RGB format depending on the printer's preference.

Sheet Description

**TYPE 2**

Trail Information Kiosk  
(ARRA version 2)  
Map Mounting Screw Placement  
and Map Bleed Area Details

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

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# Supplemental Panels for Lower Cross Member

For Sign Types 2 & 3

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

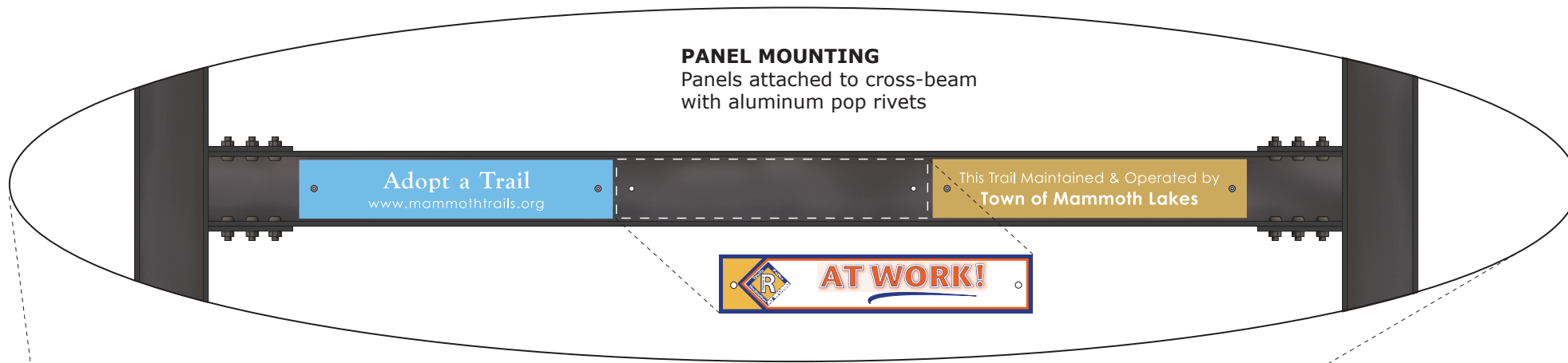
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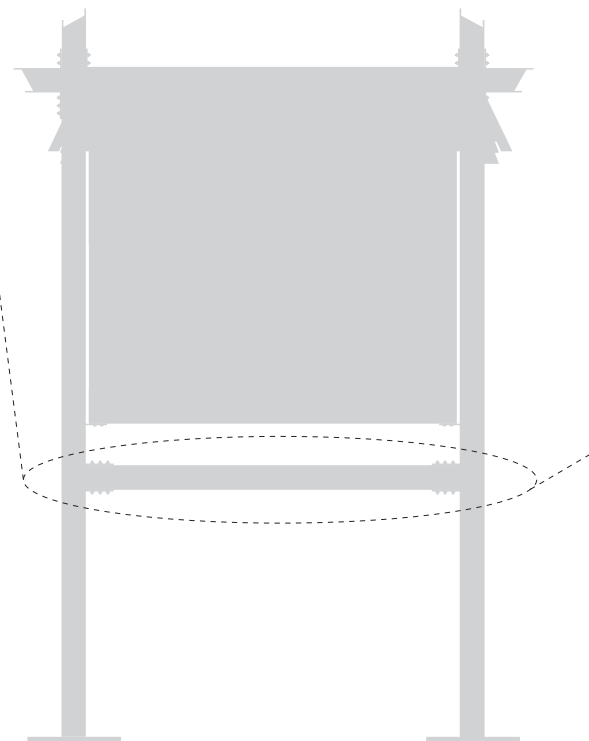
Date Description



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1 1/2" = 1'-0"



Sign Silhouette



**PANELS**  
1/8" aluminum panels with holes to align with holes in cross beam

LAYOUT EXAMPLES



# TYPE 3

Park Identification Marker

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

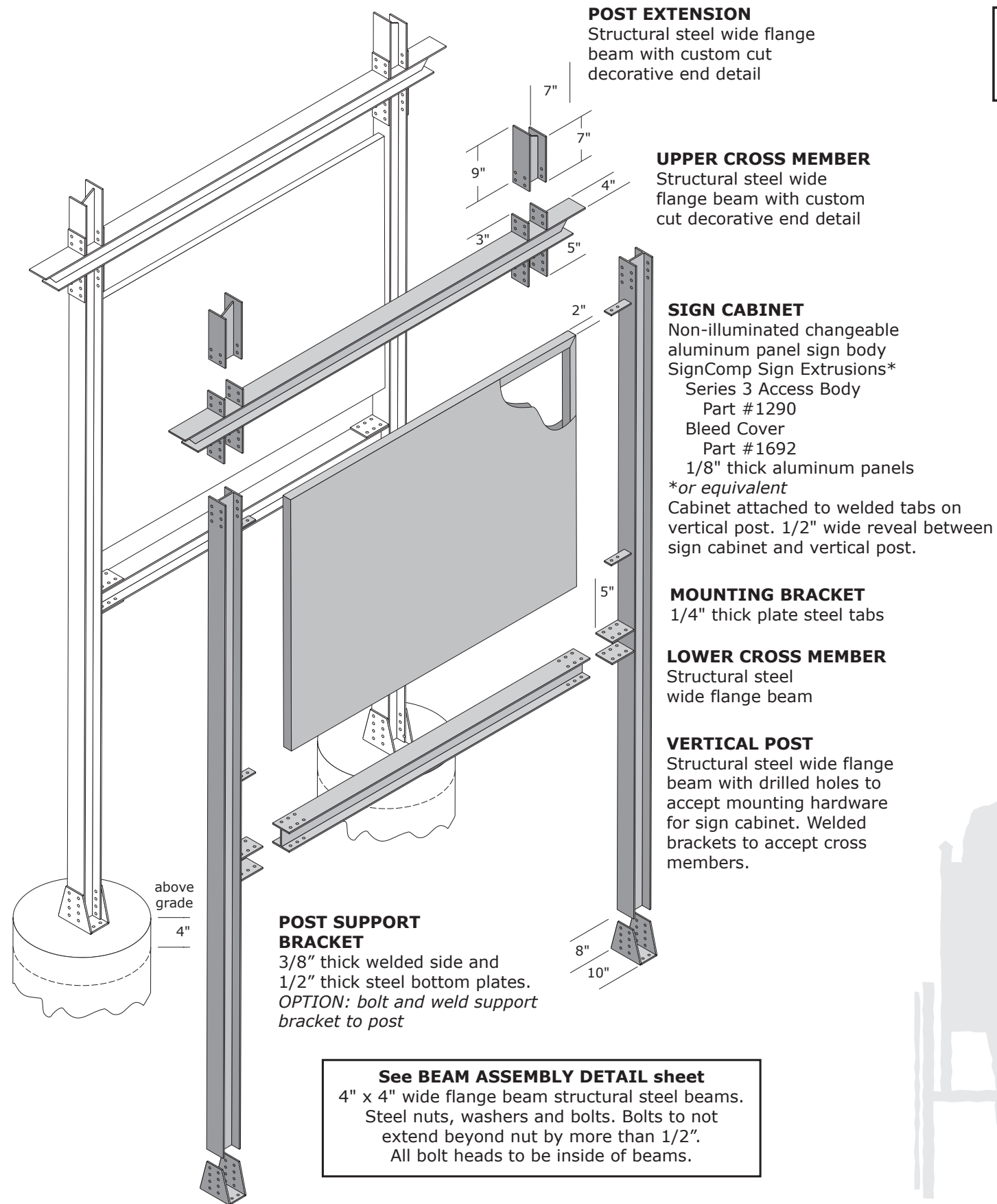
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

Prepare by

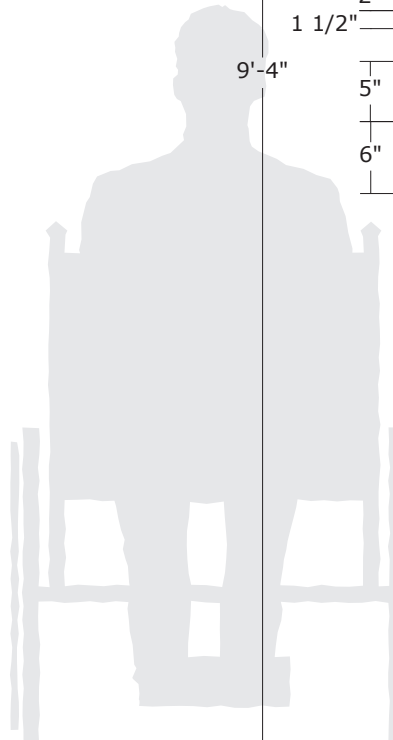


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**See BEAM ASSEMBLY DETAIL sheet**  
4" x 4" wide flange beam structural steel beams.  
Steel nuts, washers and bolts. Bolts to not extend beyond nut by more than 1/2".  
All bolt heads to be inside of beams.



# TYPE 4/6

Information/Guide  
Combination Sign  
(ARRA version 2)

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

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### MATERIALS, FINISHES AND GRAPHICS

3/16" (th.) painted aluminum panel.  
Matthews acrylic polyurethane painted background, edges and back. Surface masked and sprayed text and graphics. Satin clear coat to be applied over background, text and graphics.

### FONTS

Century Gothic Bold  
Century Gothic Regular  
Clearview Hwy 2-B

Distance indicator  
FONT: Century Gothic Regular

04 3/16" thick rule line

Background panel

3/8" hex-head stainless steel screw

1/2" Rubber washer

Map Panel

### MAP MOUNTING

Screws are located every 6" around edge of map, 3/4" from the edge to center of screw head.

### MAP PANEL GRAPHIC PROCESS

14" x 14" thick fiberglass panel with embedded ink-jet graphics. Printed at 600dpi using exterior UV inhibiting inks. Manufacturer: Pannier [www.panniergraphics.com](http://www.panniergraphics.com) or approved alternate. Mounted with mechanical fasteners.

### VERTICAL POSTS

2" x 2" structural steel with holes drilled to accept mounting hardware. Welded end cap to close post. Sign panels are bolted to post through sign face.

### INSTALLATION

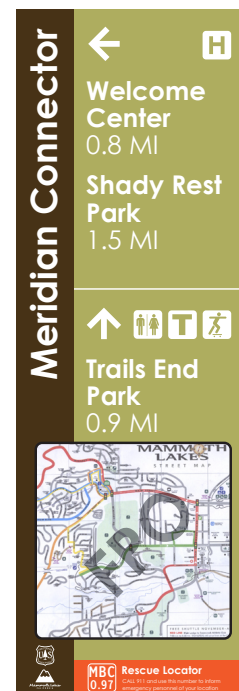
Direct bury posts into concrete footing. Posts are to be free of movement. Provide additional support at the base if required. Vibration analysis and stiffeners at the base of post where necessary.



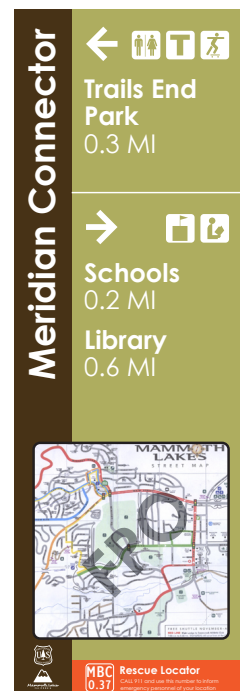
Message Layout A  
(sign number SRP 0.37)



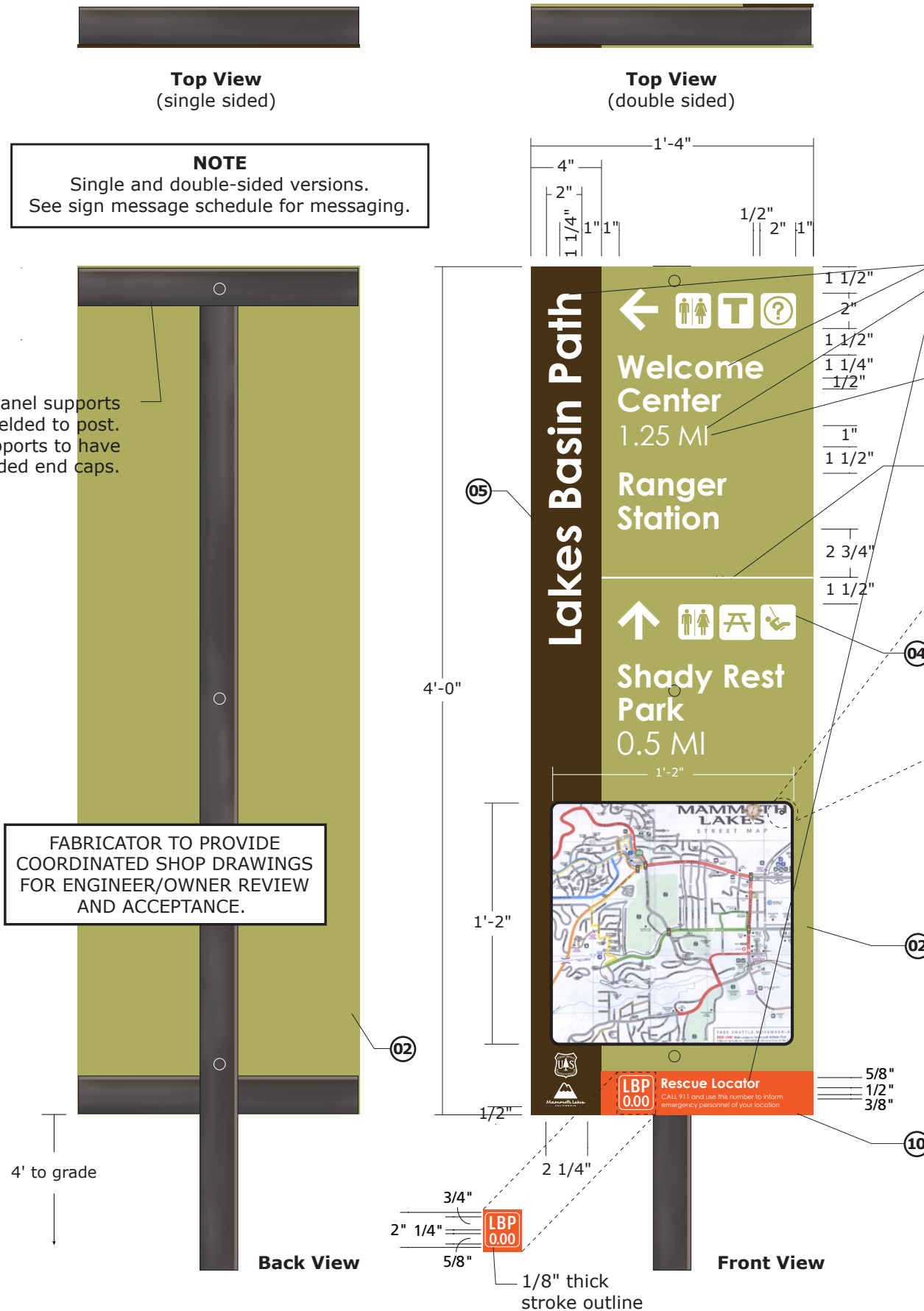
Message Layout B  
(sign number LBP 5.22)



Message Layout C  
(sign number MBC 0.37)



Message Layout D  
(sign number MBC 0.37)



**Top View (single sided)**

**NOTE**  
Single and double-sided versions. See sign message schedule for messaging.

Panel supports welded to post. Supports to have welded end caps.

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4' to grade

Back View

Front View

1/8" thick stroke outline



# TYPE 4/6

## Information/Guide Combination Sign (ARRA version 2)

Map Mounting Screw Placement  
and Map Bleed Area Details

Scale

n.t.s.

Color Code

- 01  Gold
- 02  Mammoth Lakes Trail System
- 04  White
- 05  Brown
- 06  Steel Finish
- 07  Red
- 08  Yellow
- 09  Black
- 10  Orange

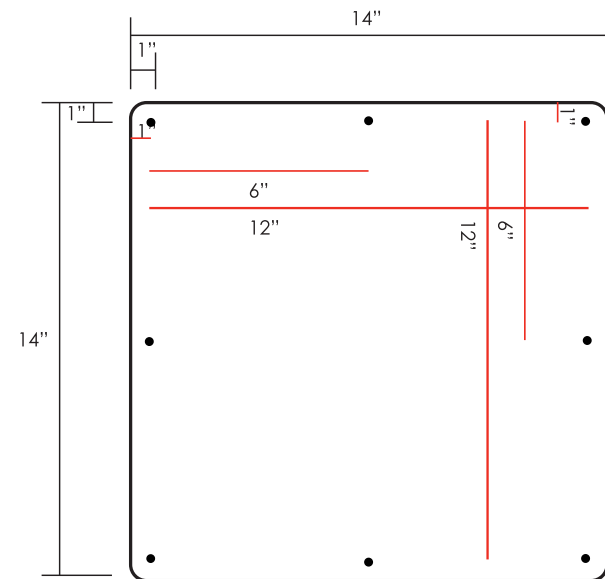
Date Description

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02.25.10	Revised
03.25.11	ARRA contract Phase 1
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### SIGN TYPE 4/6 SCREW PATTERN SPECIFICATIONS:

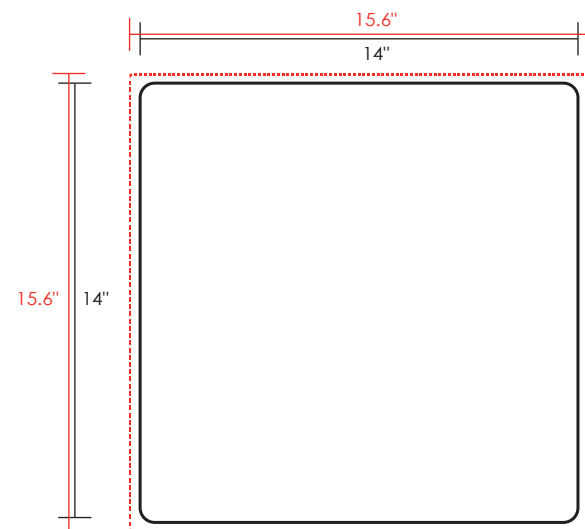
Front Map: 14" x 14"

Horizontal Screw Pattern Spacing (top and bottom of panel): 3 screws

Vertical Screw Pattern Spacing (left and right of panel): 2 screws centered between horizontal screws

Horizontal screws holes are set in .1" from edge of panel

Vertical screw holes are set in 1" from edge of panel



### SIGN TYPE 4/6 PRINT BLEED AREA

File Dimensions: 51.6" x 15.6"

Trim Dimensions: 14" x 14"

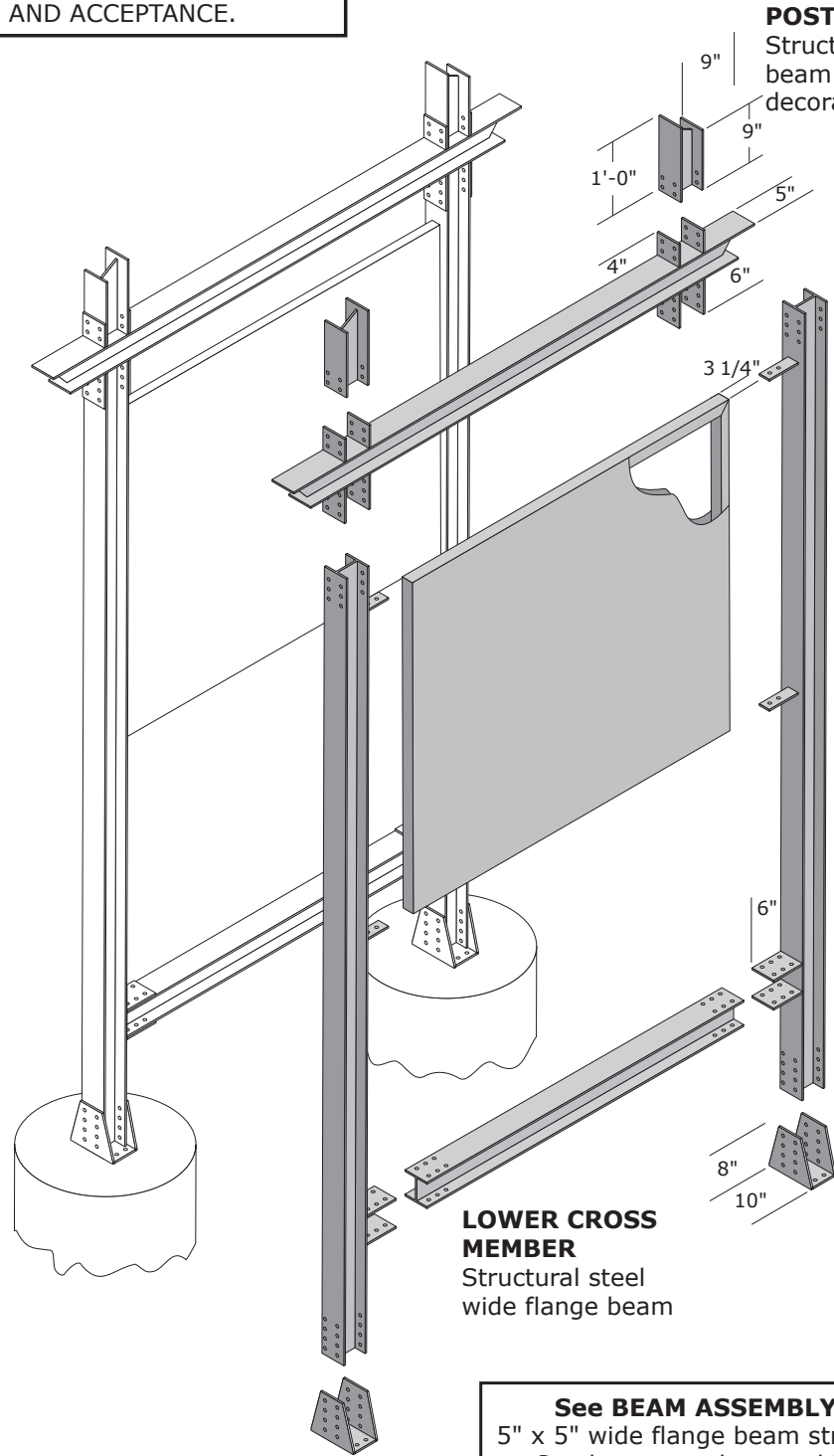
Bleed Dimensions: .8"

NOTE: The owner anticipates that no information in the final file will be cut, fabricator is to ensure labels and text are fully outside of the bleed area.

Files will be created anticipating that a border cannot be accurately created during the final cut/bleed process. Careful consideration of what will be potentially cut off with the bleed area is required.

The final file will be exported as a vector PDF with 300 dpi resolution images imbedded in the file. The file will be delivered in either a CMYK or RGB format depending on the printer's preference.

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**POST EXTENSION**  
Structural steel wide flange beam with custom cut decorative end detail

**UPPER CROSS MEMBER**  
Structural steel wide flange beam with custom cut decorative end detail

**SIGN CABINET**  
Non-illuminated changeable aluminum panel sign body  
SignComp Sign Extrusions\*  
Series 3 Access Body  
Part #1290  
Bleed Cover  
Part #1692  
1/8" thick aluminum panels  
\*or equivalent  
Cabinet attached to welded tabs on vertical post. 1/2" wide reveal between sign cabinet and vertical post.

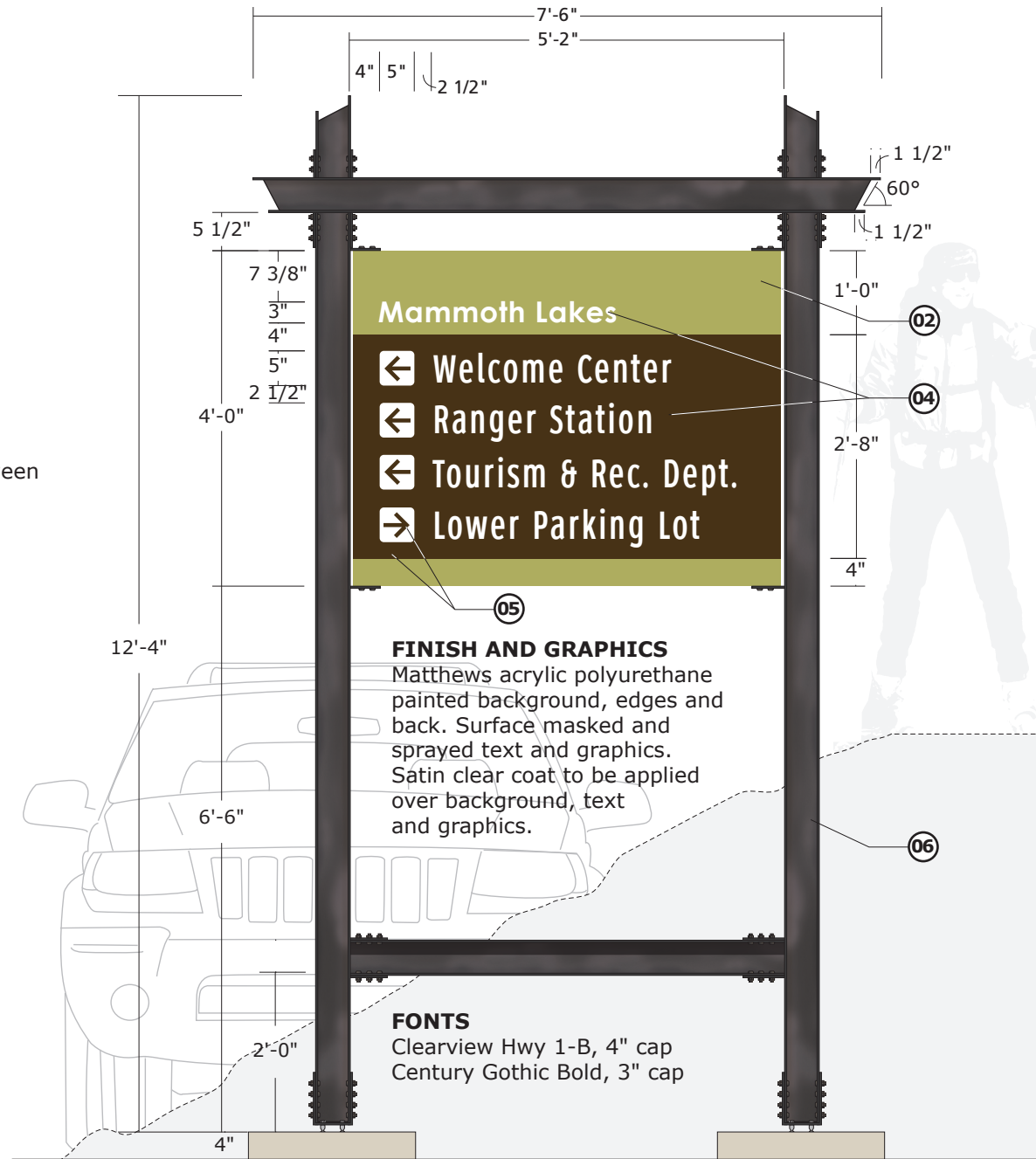
**VERTICAL POST**  
Structural steel wide flange beam with drilled holes to accept mounting hardware for sign cabinet. Welded brackets to accept cross members.

**MOUNTING BRACKET**  
3/8" thick plate steel tabs

**POST SUPPORT BRACKET**  
3/8" thick welded side and 1/2" thick steel bottom plates.  
*OPTION: bolt and weld support bracket to post*

**LOWER CROSS MEMBER**  
Structural steel wide flange beam

**See BEAM ASSEMBLY DETAIL sheet**  
5" x 5" wide flange beam structural steel beams.  
Steel nuts, washers and bolts. Bolts to not extend beyond nut by more than 1/2".  
All bolt heads to be inside of beams.



**FINISH AND GRAPHICS**  
Matthews acrylic polyurethane painted background, edges and back. Surface masked and sprayed text and graphics. Satin clear coat to be applied over background, text and graphics.

**FONTS**  
Clearview Hwy 1-B, 4" cap  
Century Gothic Bold, 3" cap

Sheet Description

**TYPE 5**  
Vehicular Guide

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

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# TYPE 6

Trail Guide, Primary

(ARRA version 2)

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

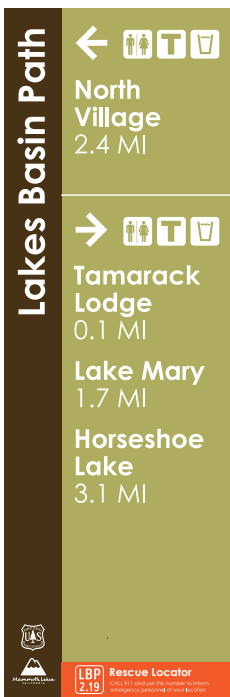
Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

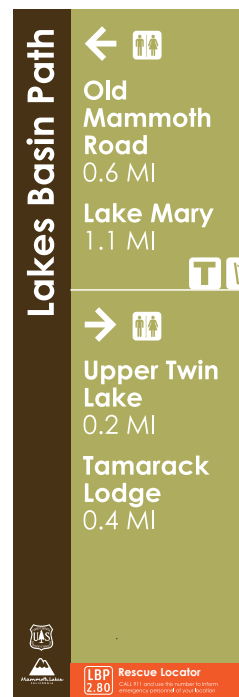
Prepare by



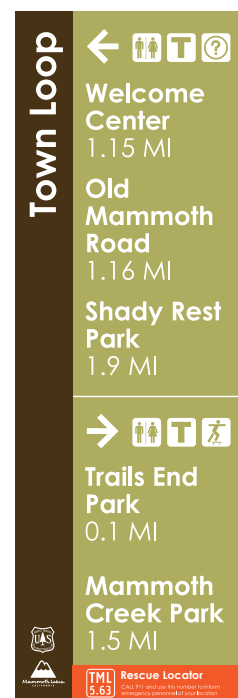
corbindesign



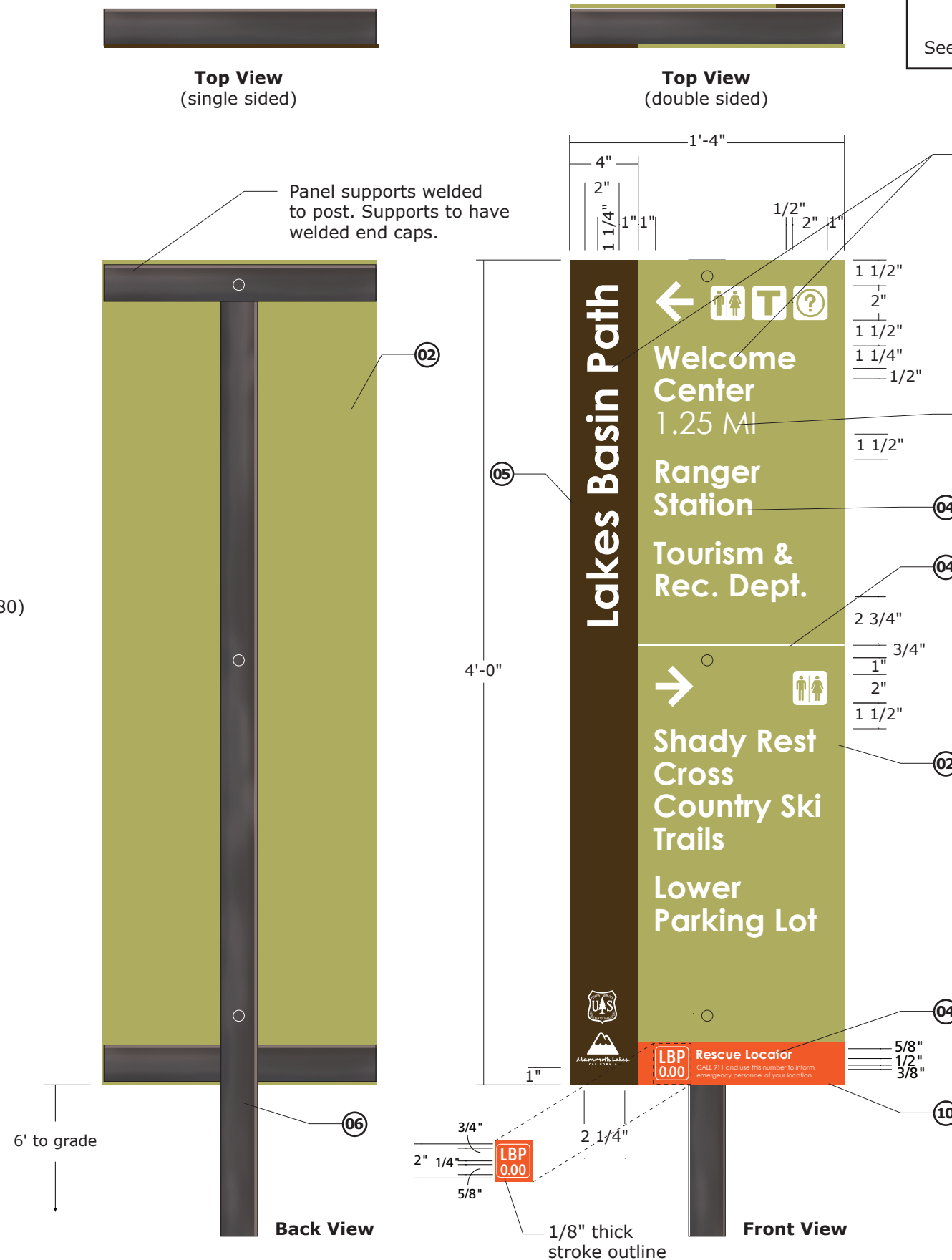
Message Layout A  
(sign number LBP 2.19)



Message Layout B  
(sign number LBP 2.80)



Message Layout C  
(sign number TML 5.63)



**NOTE**  
Single and double-sided versions.  
See sign message schedule for messaging.

**FONTS**  
Century Gothic Bold

**DISTANCE INDICATOR**  
Distance indicator  
FONT: Century Gothic Regular

FABRICATOR TO PROVIDE  
COORDINATED SHOP DRAWINGS  
FOR ENGINEER/OWNER REVIEW  
AND ACCEPTANCE.

**MATERIALS, FINISHES AND GRAPHICS**  
3/16" (th.) painted aluminum panel.  
Matthews acrylic polyurethane painted  
background, edges and back. Surface  
masked and sprayed text and graphics.  
Satin clear coat to be applied over  
background, text and graphics.

**VERTICAL POSTS**  
2" x 2" structural steel with holes  
drilled to accept mounting hardware.  
Welded end cap to close post. Sign panels  
are bolted to post through sign face.

**INSTALLATION**  
Direct bury posts into concrete footing.  
Posts are to be free of movement. Provide  
additional support at the base if required.  
Vibration analysis and stiffeners at the base of  
post where necessary.

# TYPE 6a

Trail Guide, Secondary

(ARRA version 2)

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

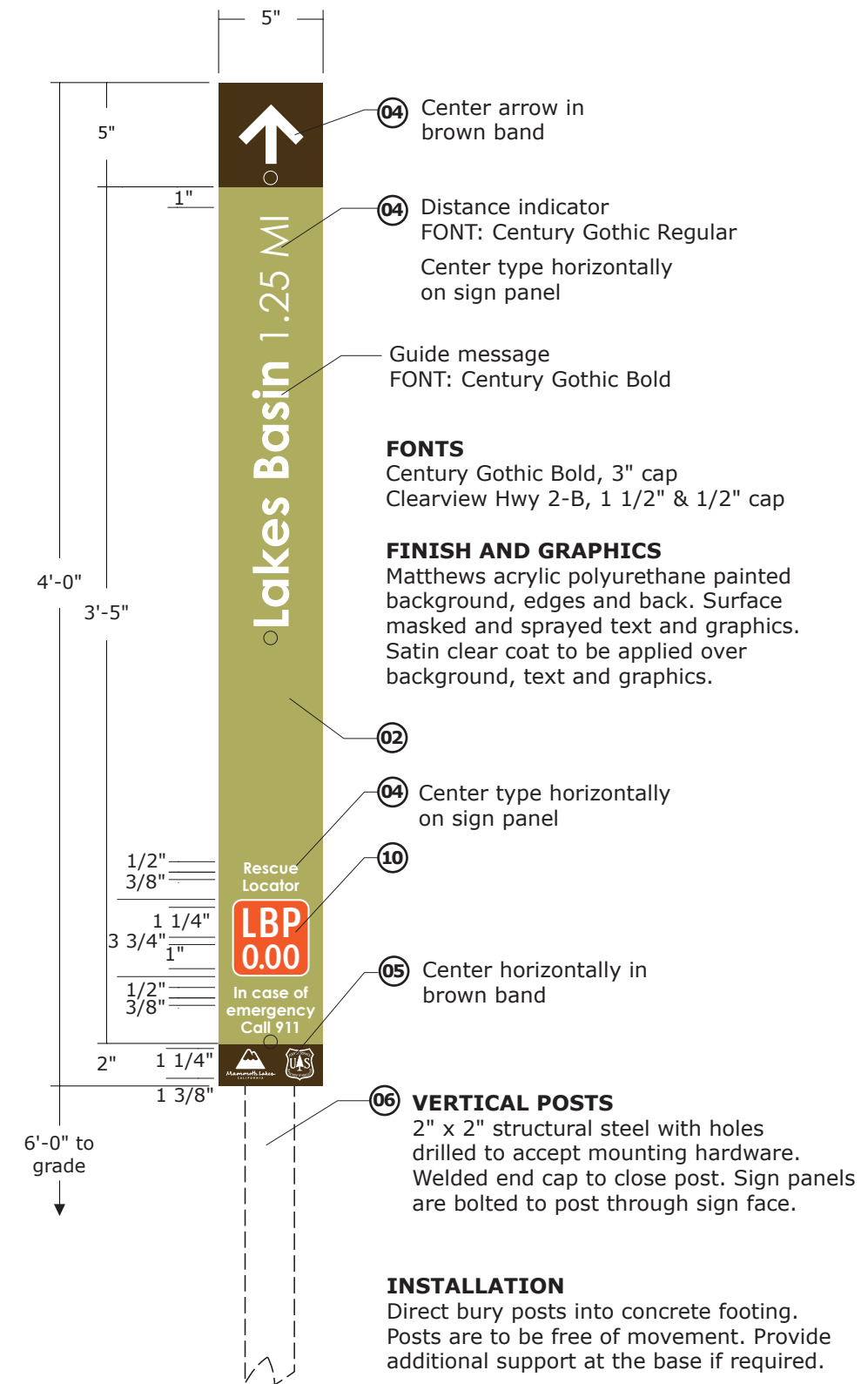
Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

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**04** Center arrow in brown band

**04** Distance indicator  
FONT: Century Gothic Regular  
Center type horizontally on sign panel

Guide message  
FONT: Century Gothic Bold

**02**

**04** Center type horizontally on sign panel

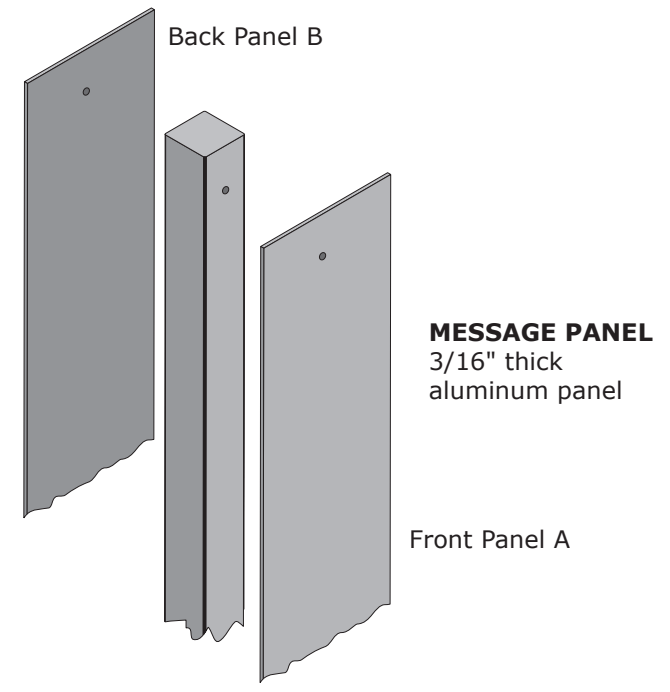
**10**

**05** Center horizontally in brown band

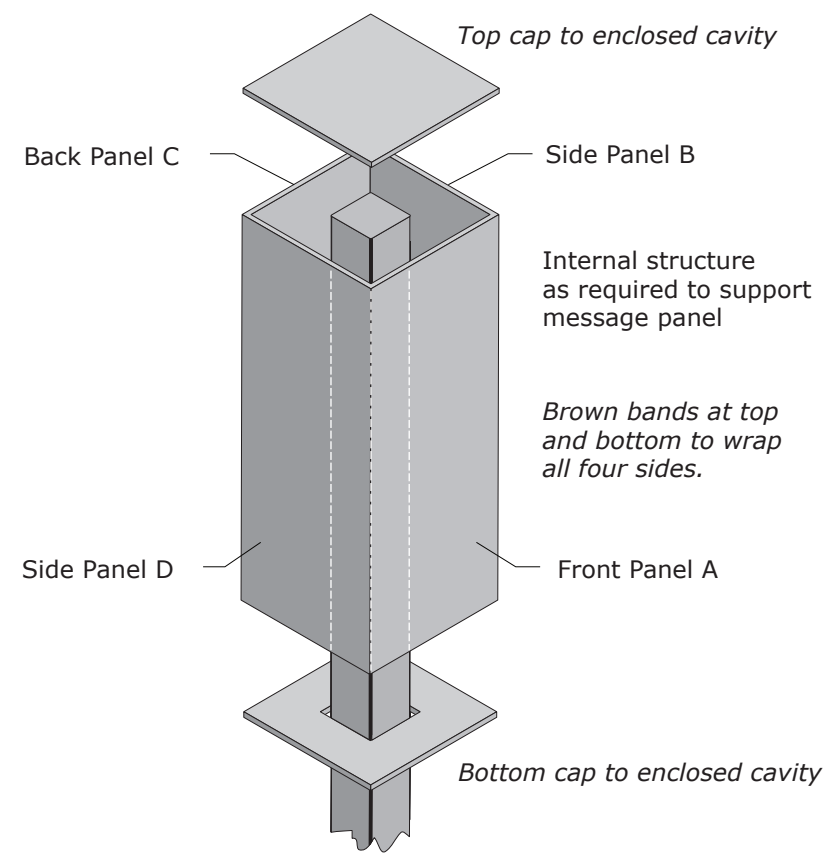
**06** **VERTICAL POSTS**  
2" x 2" structural steel with holes drilled to accept mounting hardware. Welded end cap to close post. Sign panels are bolted to post through sign face.

**INSTALLATION**  
Direct bury posts into concrete footing. Posts are to be free of movement. Provide additional support at the base if required.

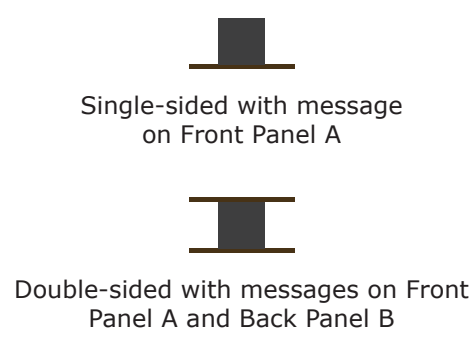
**NOTE**  
Multiple message panels. See sign message schedule for number of sign panels and messaging.



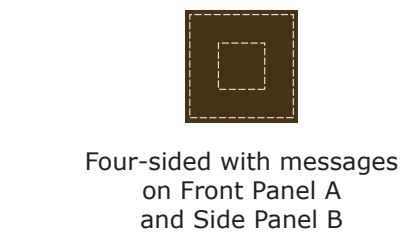
Single and Double-Sided Panel Layouts



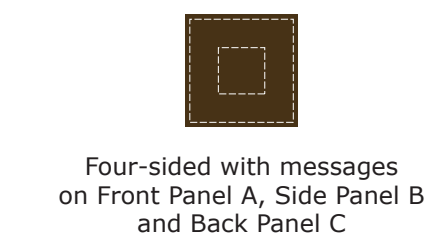
Four-Sided Panel Layout



Message Layout A



Message Layout B



Message Layout C

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# TYPE 8

Regulatory

Scale

n.t.s.

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

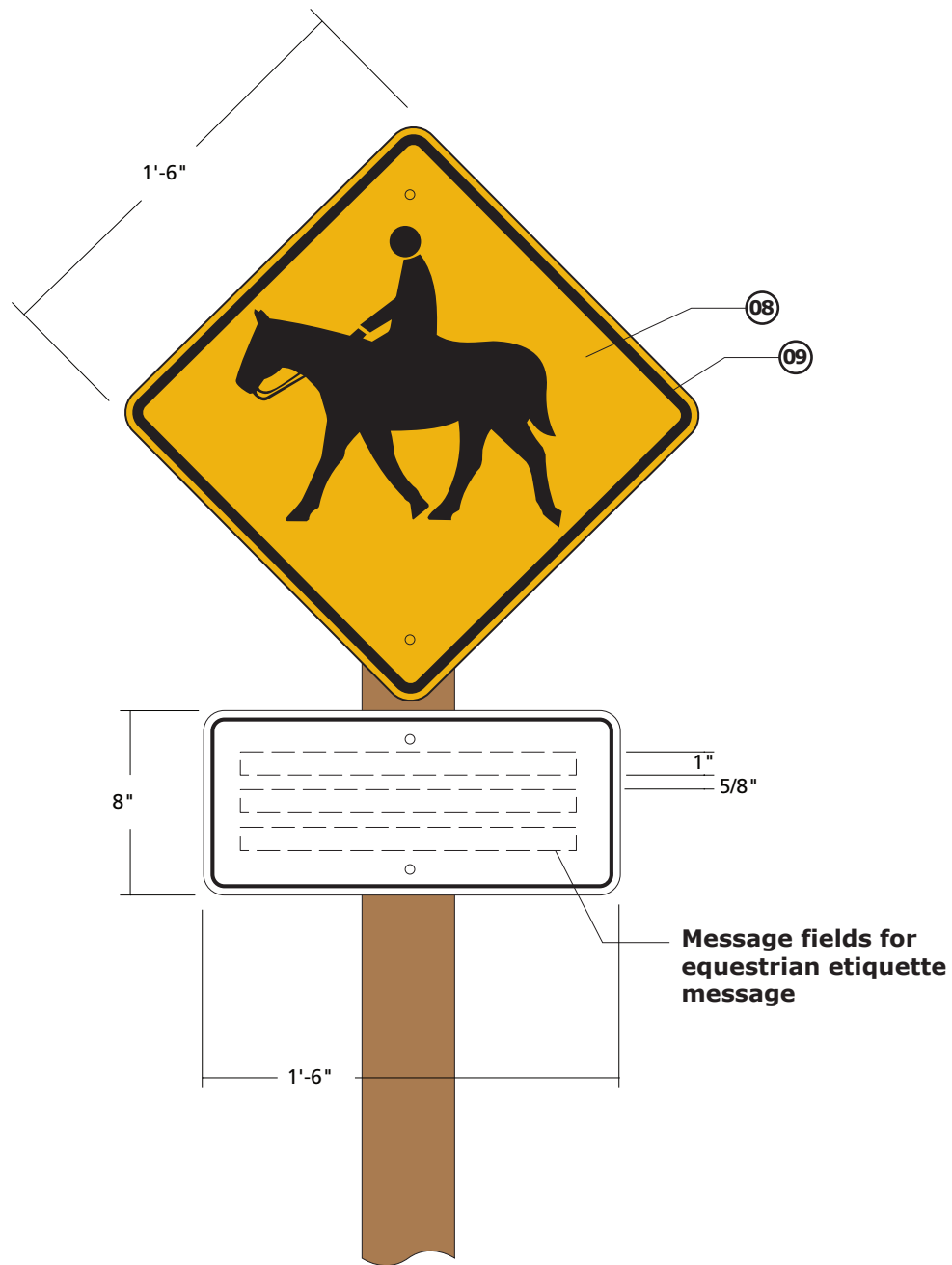
Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3

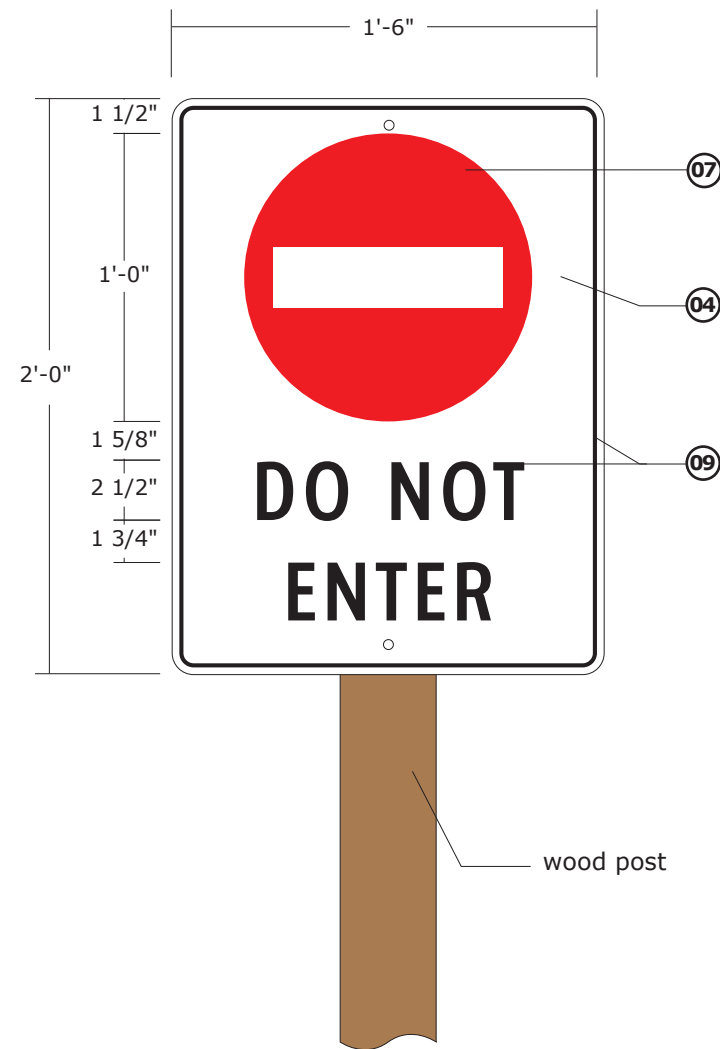
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**ALTERNATE Regulatory Panel Arrangement**



**Regulatory Panel**

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**FONTS**  
Clearview Hwy 2-B

**FINISH AND GRAPHICS**  
Standard Regulatory construction. Engineer grade reflective background with high performance grade opaque vinyl graphics

**VERTICAL POSTS**  
6" x 6" wood post with holes drilled to accept mounting hardware. Sign panels are bolted to post through sign face.

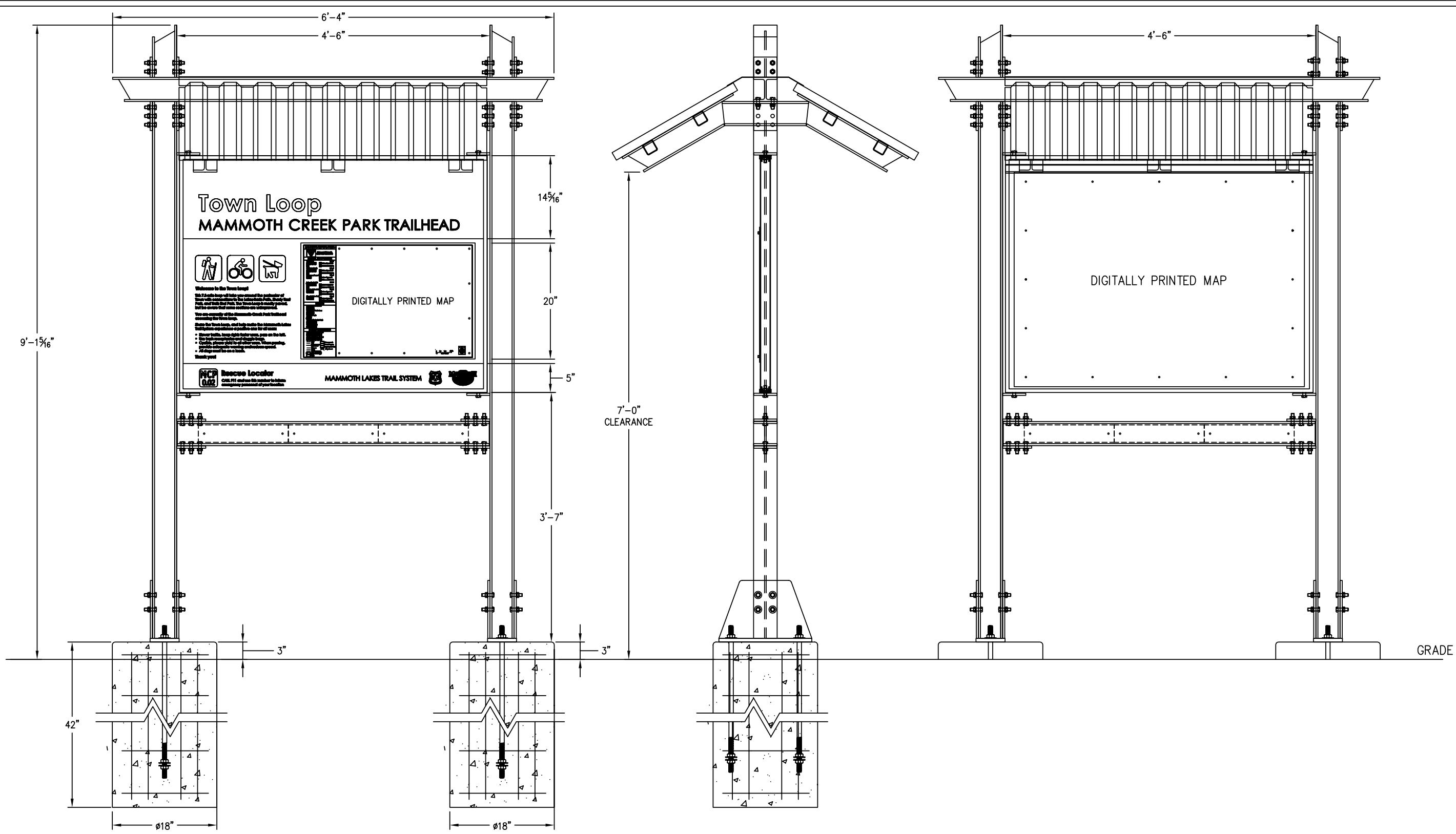
**INSTALLATION**  
Direct bury posts into concrete footing.



## Construction Drawings for Built Signs

---

**TYPE 2 PROTOTYPE 04.22.10**



FRONT VIEW

SCALE: 3/4"=1'-0"

TYPE 2

SIDE VIEW

SCALE: 3/4"=1'-0"

TYPE 2

BACK VIEW

SCALE: 3/4"=1'-0"

TYPE 2

**FAIRMONT**  
Sign Company  
3750 E. OUTER DR., DETROIT, MI 48234  
PHONE: 313-368-4000 FAX: 313-368-1649

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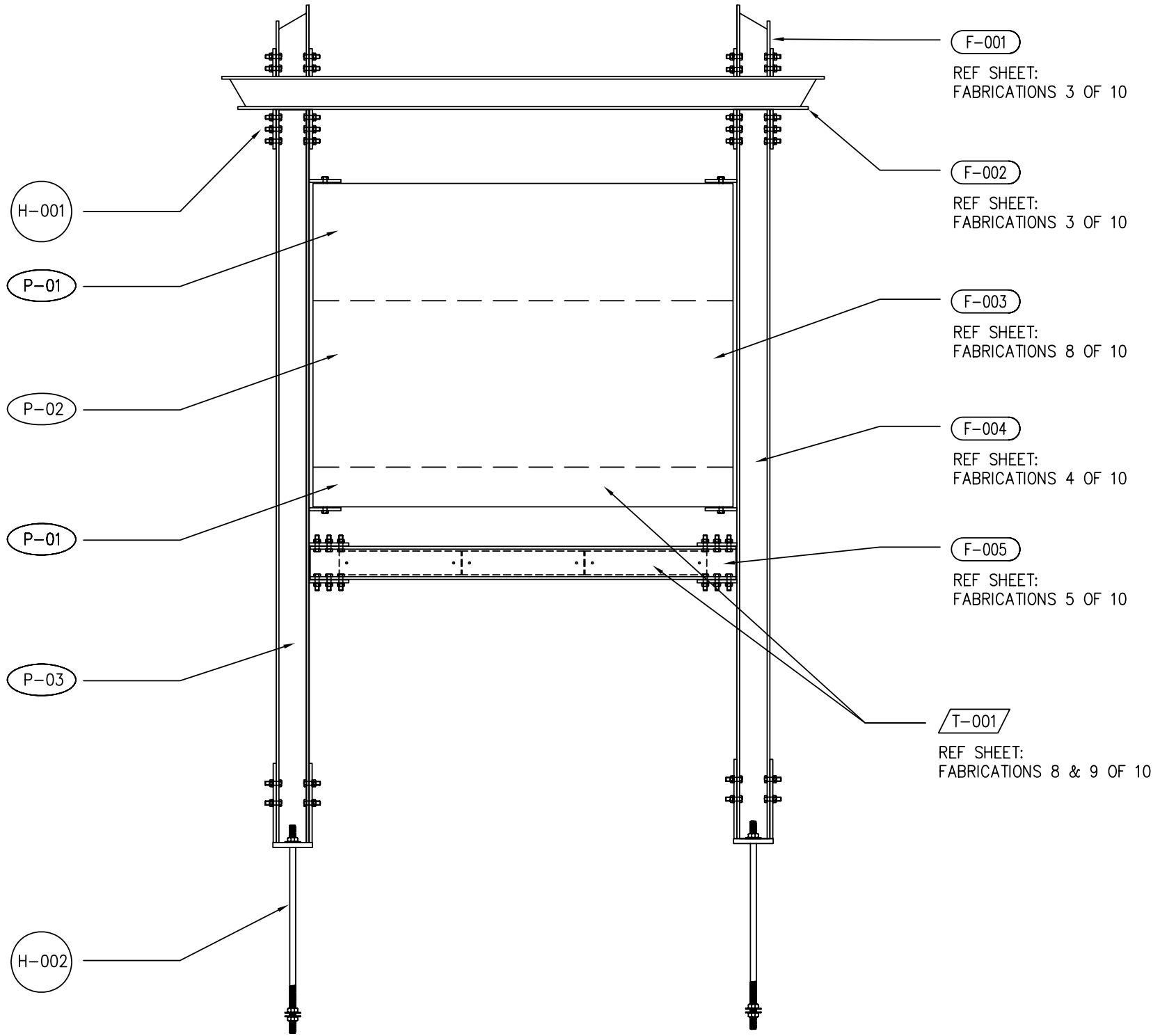
DATE	REVISION	INIT
5/12/10		AK
5/20/10	*	AK
*	*	*
*	*	*

CUSTOMER/LOGO  
**THE TOWN OF MAMMOTH LAKES**  
ADDRESS PO BOX 1609 PH:(760) 934 8989 EXT. 286  
CITY, STATE MAMMOTH LAKES CA 93546

DWG TITLE: ELEV  
DESCRIPTION: TYPE 2 SIGN  
FILE NAME: TT OF ML\PROTO\TYPE 2  
BLOCK NAME:

WO# : 66740  
DATE: 4/21/10  
DRAWN BY: AK  
SHEET #: 1 OF #: 10





FRONT VIEW  
SCALE: 3/4"=1'-0" TYPE 2

FABRICATED PART SCHEDULE			
SYM.	QTY. REQ'D	SOURCE	DESCRIPTION
F-001	002	FSC	POST EXTENSION
F-002	001	FSC	UPPER CROSS MEMBER
F-003	001	FSC	SIGN CABINET
F-004	002	FSC	VERTICAL POST
F-005	001	FSC	LOWER CROSS MEMBER

METAL SCHEDULE		
SYM.	SUPPLIER	DESCRIPTION
T-001	T.B.D.	1/8" ALUM. PANEL

HARDWARE SCHEDULE			
SYM.	COMPONENT & DESC.	QTY.	SOURCE
H-001	Ø1/2", 1 3/4" LONG HEX HEAD BOLT W/NUT & WASHER MATTE BLACK FINISH CHROMIUM DIPPED	80	N/A
H-002	Ø3/4", 36" LONG HEX HEAD BOLT W/NUT & WASHER MATTE BLACK FINISH CHROMIUM DIPPED	4	N/A

PAINT SCHEDULE		
MARK	COLOR NUMBER	DESCRIPTION
P-01	MPO0857	MATTHEWS (BROWN)
P-02	MPO0811	MATTHEWS (GREEN)
P-03		STEEL FINISH (CORTEN OR EQUAL)

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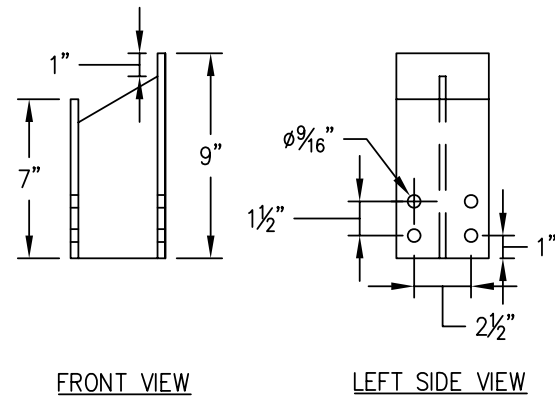
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DATE	REVISION	INIT
5/12/10	*	AK
5/20/10	*	AK
*	*	*
*	*	*
*	*	*

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ADDRESS PO BOX 1609 PH:(760) 934-8989 EXT.286  
CITY, STATE MAMMOTH LAKES CA 93546

DWG TITLE: ELEV  
DESCRIPTION: TYPE 2 SIGN  
FILE NAME: TT OF ML\PROTO\TYPE 2  
BLOCK NAME:

WO# : 66740  
DATE: 4/21/10  
DRAWN BY: AK  
SHEET #: 2 OF #: 10



FRONT VIEW

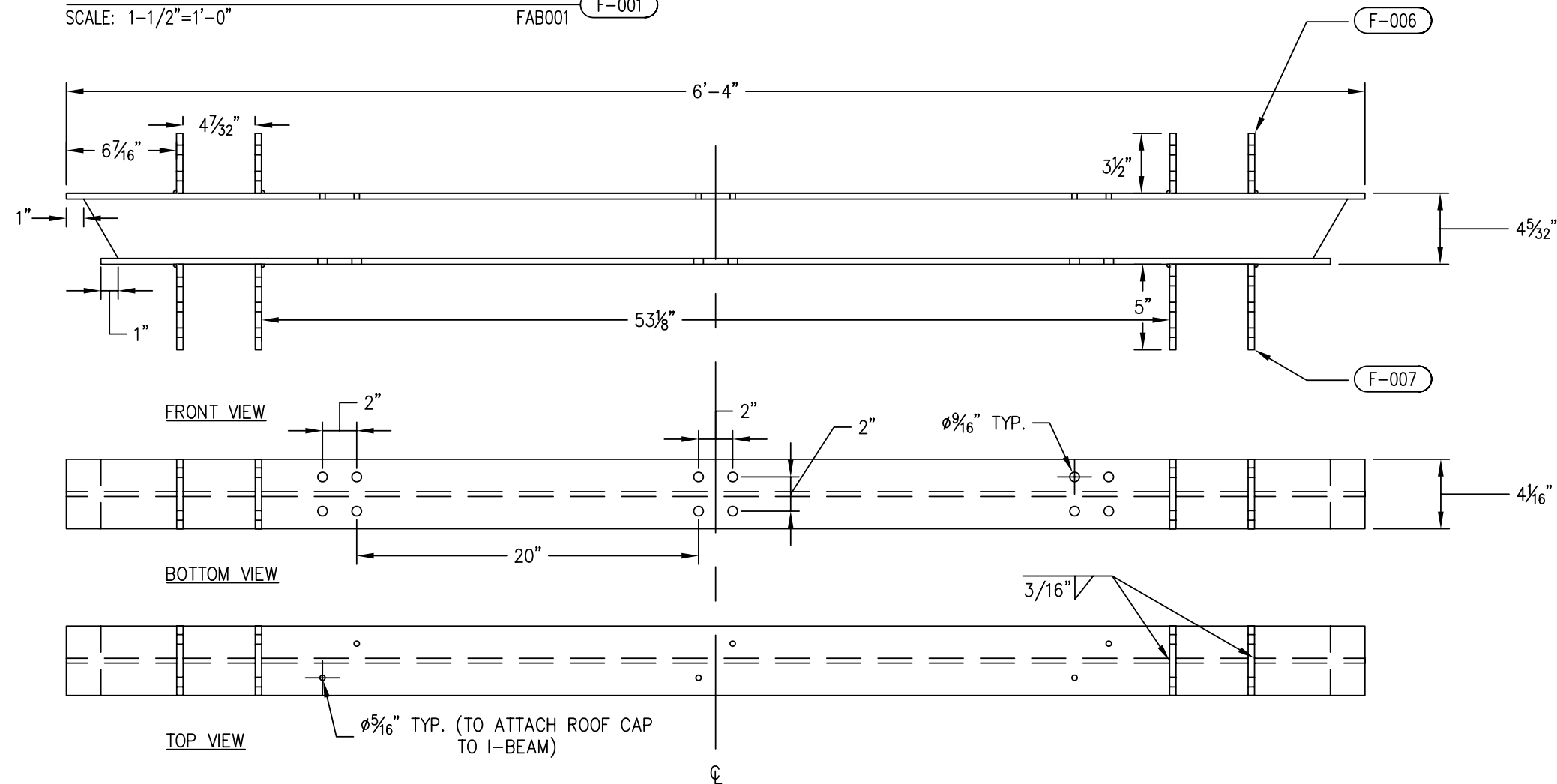
LEFT SIDE VIEW

FABRICATED PART SCHEDULE			
SYM.	QTY. REQ'D	SOURCE	DESCRIPTION
F-001	002	FSC	POST EXT. (A588 W4X13)
F-002	001	FSC	UPPER CROSS MEMB. (A588 W4X13)
F-006	004	FSC	3 1/2"X4"X3/8" A588 STEEL PLATE
F-007	004	FSC	3"X5"X3/8" A588 STEEL PLATE

POST EXTENSION

SCALE: 1-1/2"=1'-0"

FAB001 F-001



FRONT VIEW

BOTTOM VIEW

TOP VIEW

UPPER CROSS MEMBER

SCALE: 1-1/2"=1'-0"

FAB002 F-002

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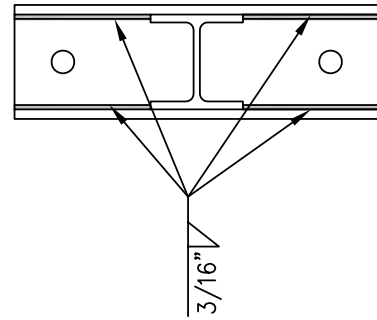
DATE	REVISION	INIT
5/12/10	*	AK
5/20/10	*	AK
*	*	*
*	*	*
*	*	*

CUSTOMER/LOGO **THE TOWN OF MAMMOTH LAKES**  
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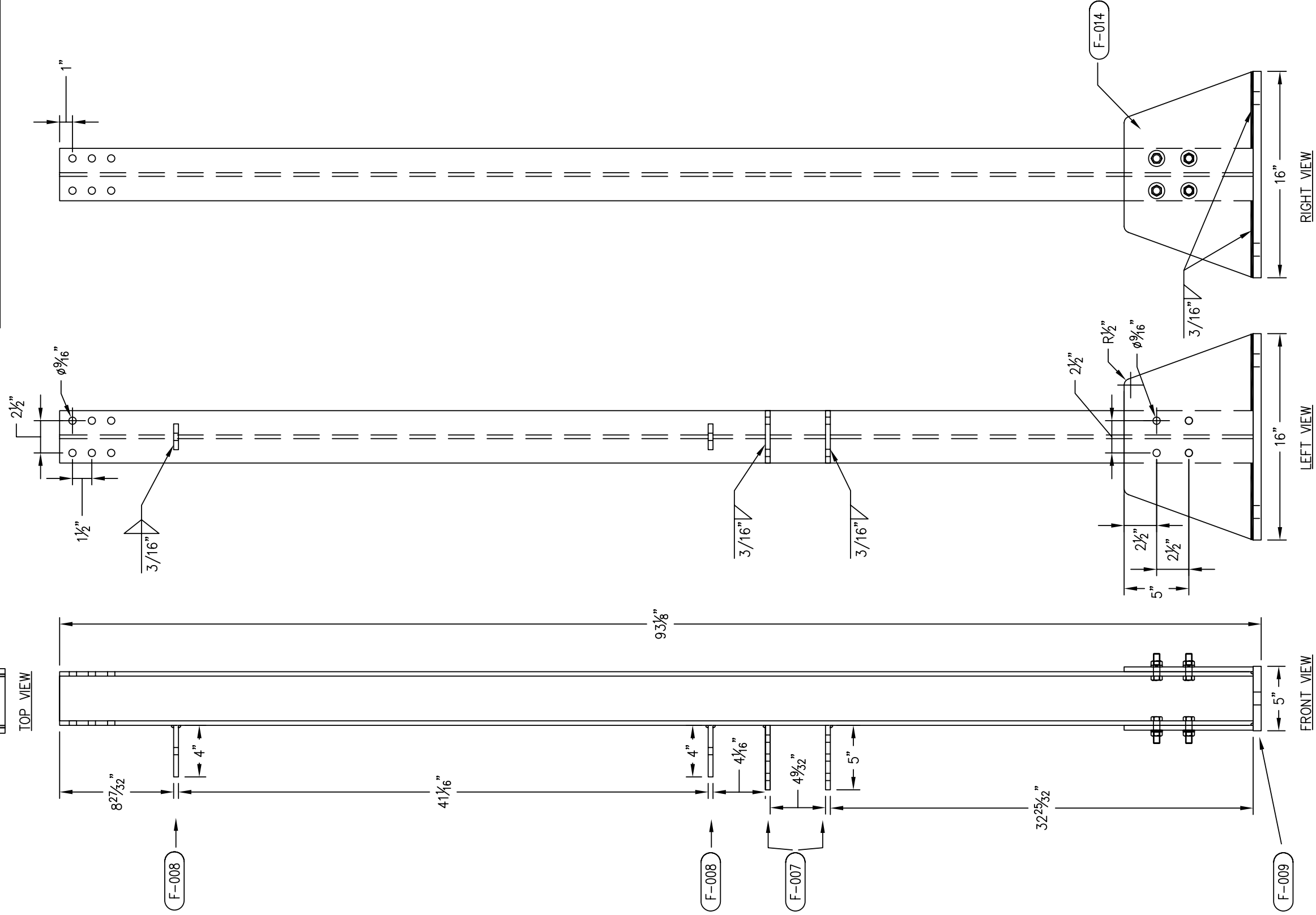
DWG TITLE: CONST  
DESCRIPTION: POST EXT. & UPPER MEMBER  
FILE NAME: TT OF ML\PROTO\TYPE2\_2  
BLOCK NAME:

WO# : 66740  
DATE: 4/22/10  
DRAWN BY: AK  
SHEET #: 3 OF #: 10

FABRICATED PART SCHEDULE		
SYM.	QTY. REQ'D	SOURCE DESCRIPTION
F-004	002	FSC VERTICAL POST (A588 W4X13)
F-007	008	FSC 4"X5"X3/8" A588 STEEL PLATE
F-008	004	FSC 2"X4"X3/8" A588 STEEL PLATE
F-009	002	FSC 5"X16"X5/8" A588 STEEL
		BASE PLATE
F-014	002	FSC 3/8" A588 STEEL GUSSET



TOP VIEW



VERTICAL POST  
SCALE: 1-1/2"=1'-0"

FAB004  
F-004

**FAIRMONT**  
Sign Company  
3750 E. OUTER DR., DETROIT, MI 48234  
PHONE: 313-368-4000 FAX: 313-368-1649

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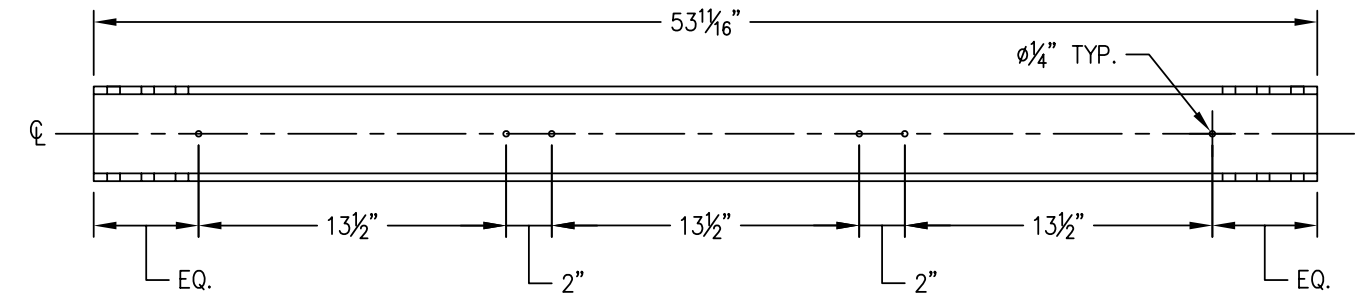
DATE	REVISION	INIT
5/12/10	*	AK
5/20/10	*	AK
*	*	*
*	*	*
*	*	*

CUSTOMER/LOGO  
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CITY, STATE MAMMOTH LAKES CA 93546

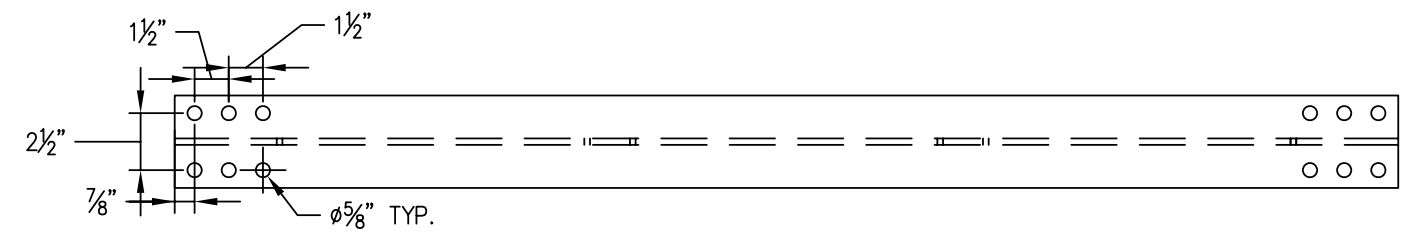
DWG TITLE: CONST  
DESCRIPTION: VERTICAL POST  
FILE NAME: TT OF ML\PROTO\TYPE2\_2  
BLOCK NAME:

WO# : 66740  
DATE: 4/22/10  
DRAWN BY: AK  
SHEET #: 4 OF #: 10

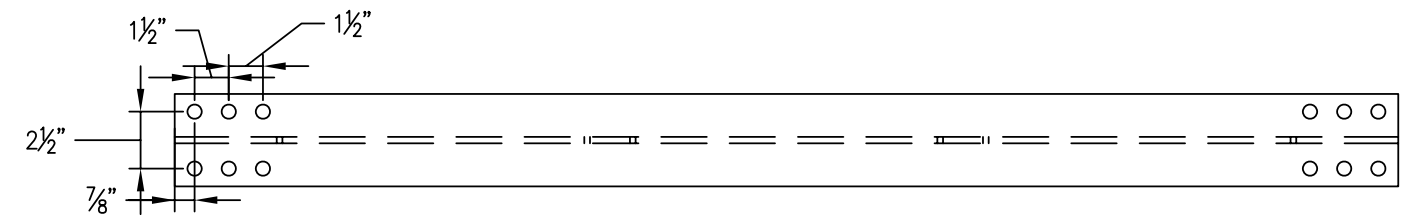
FABRICATED PART SCHEDULE			
SYM.	QTY. REQ'D	SOURCE	DESCRIPTION
F-005	001	FSC	LOWER CROSS MEMBER
			A588 W4X13



FRONT VIEW



TOP VIEW



BOTTOM VIEW

LOWER CROSS MEMBER  
 SCALE: 1-1/2"=1'-0" FAB005 (F-005)

**FAIRMONT**  
 Sign Company  
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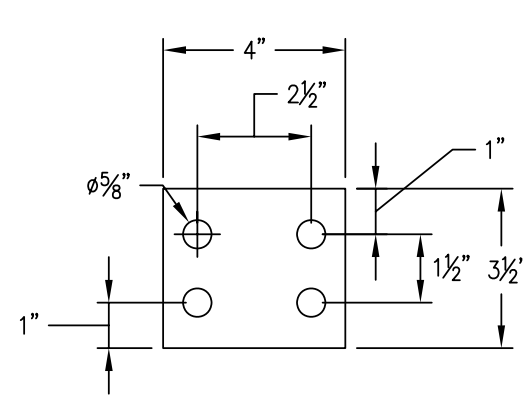
DATE	REVISION	INIT
5/12/10	*	AK
*	*	*
*	*	*
*	*	*

CUSTOMER/LOGO **THE TOWN OF MAMMOTH LAKES**  
 ADDRESS PO BOX 1609 PH: (760) 934-8989 EXT. 286  
 CITY, STATE MAMMOTH LAKES CA 93546

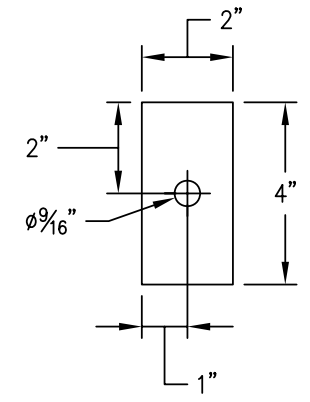
DWG TITLE: CONST  
 DESCRIPTION: LOWER CROSS MEMBER  
 FILE NAME: TT OF ML\PROTO\TYPE2\_2  
 BLOCK NAME:

WO# : 66740  
 DATE: 4/22/10  
 DRAWN BY: AK  
 SHEET #: 5 OF #: 10

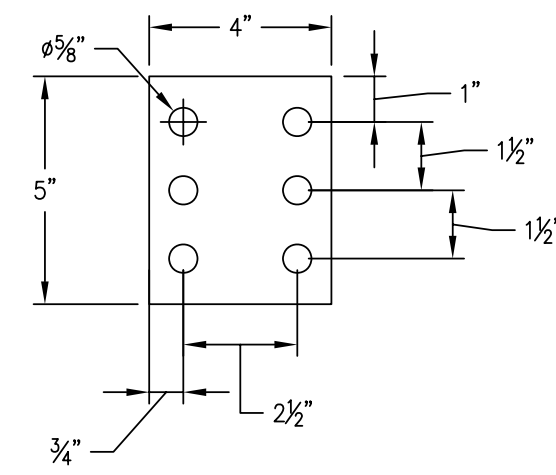
FABRICATED PART SCHEDULE			
SYM.	QTY. REQ'D	SOURCE	DESCRIPTION
(F-006)	004	FSC	3"X4"X3/8" A588 STEEL PLATE
(F-007)	008	FSC	4"X5"X3/8" A588 STEEL PLATE
(F-008)	004	FSC	2"X4"X3/8" A588 STEEL PLATE
(F-009)	002	FSC	5"X16"X5/8" A588 STEEL
			BASE PLATE
(F-014)	002	FSC	3/8" BASE PLATE GUSSET



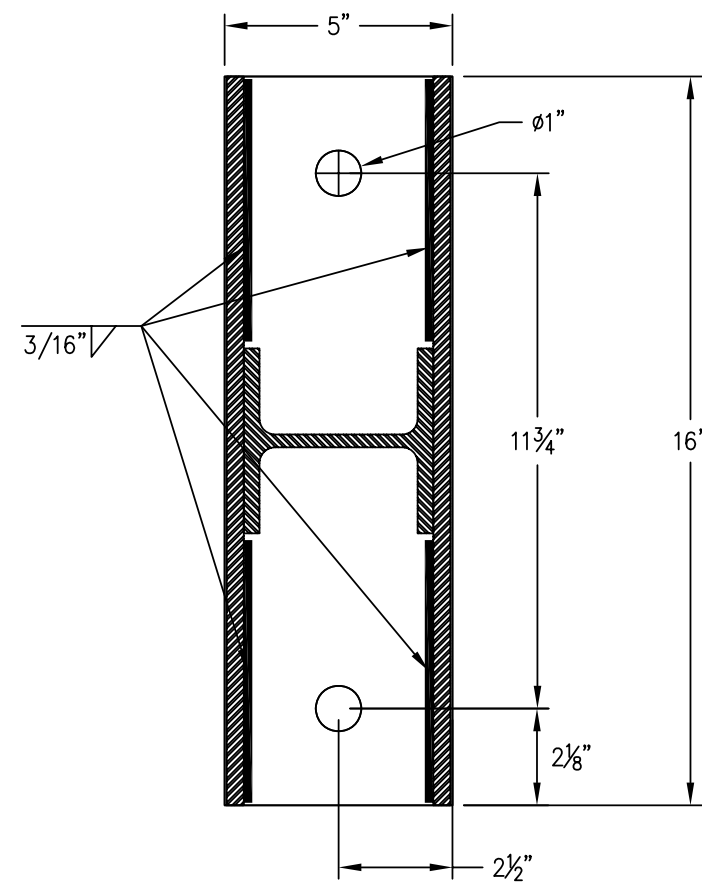
3 1/2" X 4" X 3/8" STEEL PLATE  
SCALE: 6"=1'-0" FAB006 (F-006)



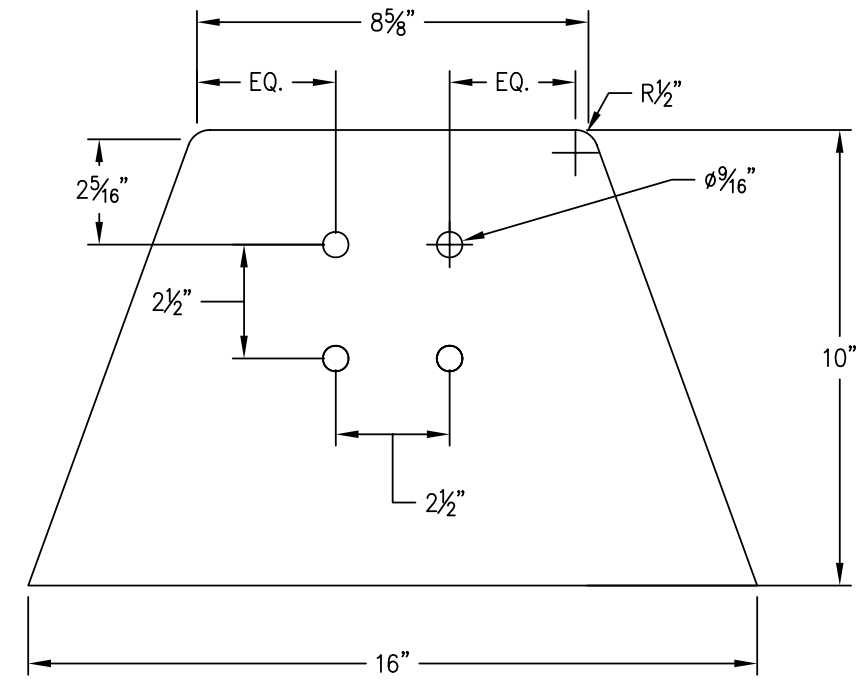
2" X 4" X 3/8" STEEL PLATE  
SCALE: 6"=1'-0" FAB008 (F-008)



4" X 5" X 3/8" STEEL PLATE  
SCALE: 6"=1'-0" FAB007 (F-007)



5/8" STEEL BASE PLATE  
SCALE: 6"=1'-0" FAB009 (F-009)



3/8" STEEL BASE PLATE GUSSET  
SCALE: 6"=1'-0" FAB014 (F-014)

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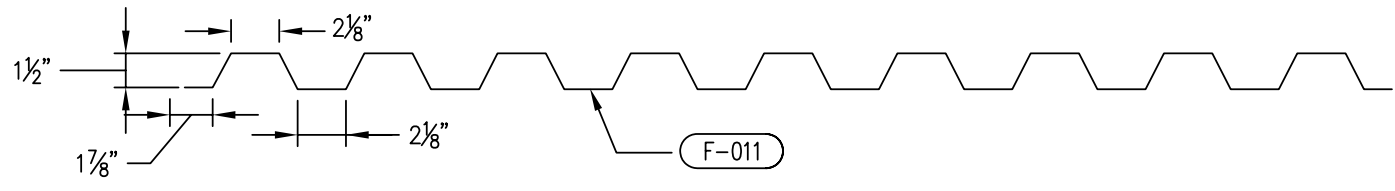
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DATE	REVISION	INIT
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5/20/10	*	AK
*	*	*
*	*	*
*	*	*

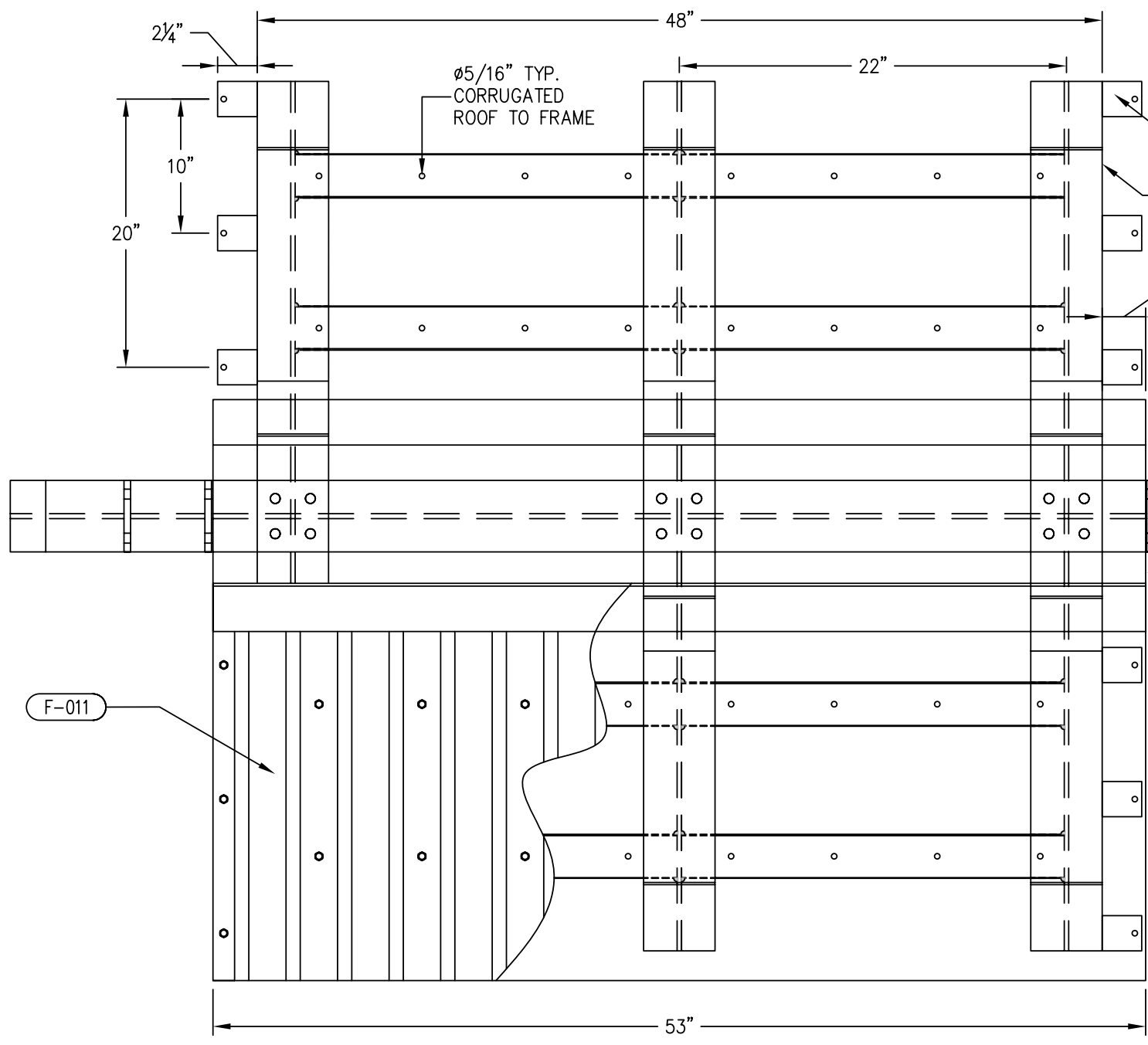
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DWG TITLE: CONST  
DESCRIPTION: PLATES  
FILE NAME: TT OF ML\PROTO\TYPE2\_2  
BLOCK NAME:

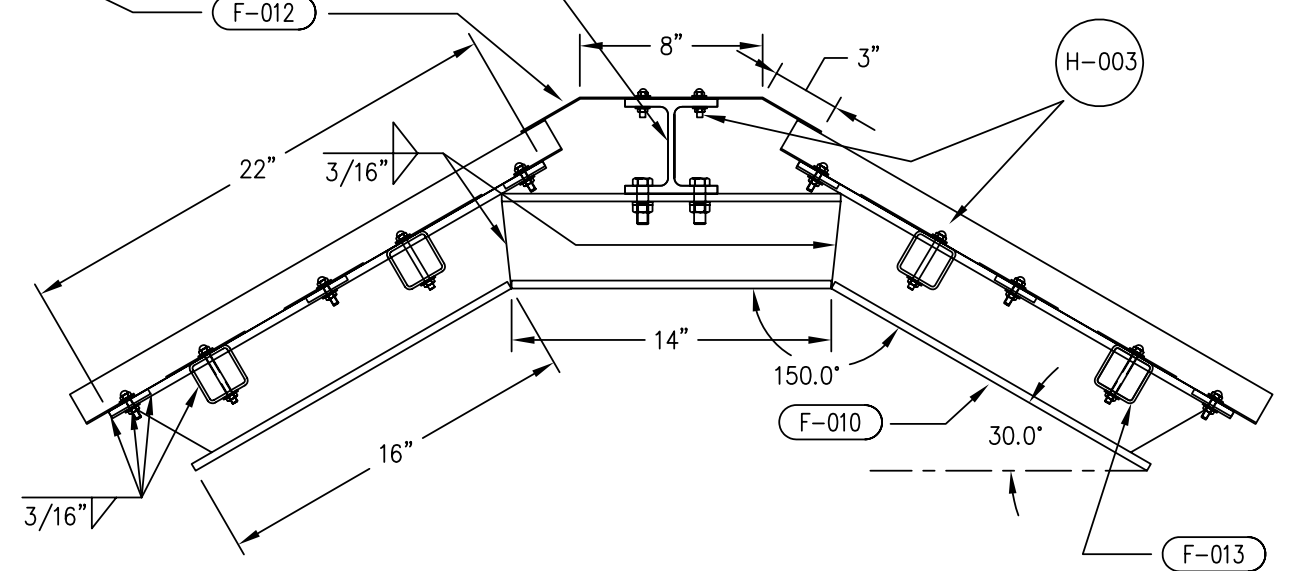
WO# : 66740  
DATE: 4/22/10  
DRAWN BY: AK  
SHEET #: 6 OF #: 10



F-011



ROOF CAP TOP VIEW  
SCALE: 1-1/2"=1'-0"



ROOF SIDE VIEW  
SCALE: 1-1/2"=1'-0"

FABRICATED PART SCHEDULE				
SYM.	QTY. REQ'D	SOURCE	DESCRIPTION	
F-002	001	FSC	UPPER CROSS MEMB. (W4X13)	
F-010	003	FSC	A588 W4X13 I-BEAM	
F-011	002	OSP	GALVANIZED CORRUGATED METAL	
			ROOFING WITH MILL (DULL) FINISH-GALV. 16GA.	
F-012	001	OSP	GALVANIZED METAL ROOF CAP	
			16 GA.	
F-013	008	OSP	2"X2"X1/8" A847 STEEL TUBING	
F-014	012	OSP	2"X2 1/4"X1/4" A588 STEEL FLATSTOCK	
H-003			Ø1/4" HEX ACON STAINLESS STEEL BOLT, NUT & WASH.	AR N/A N/A

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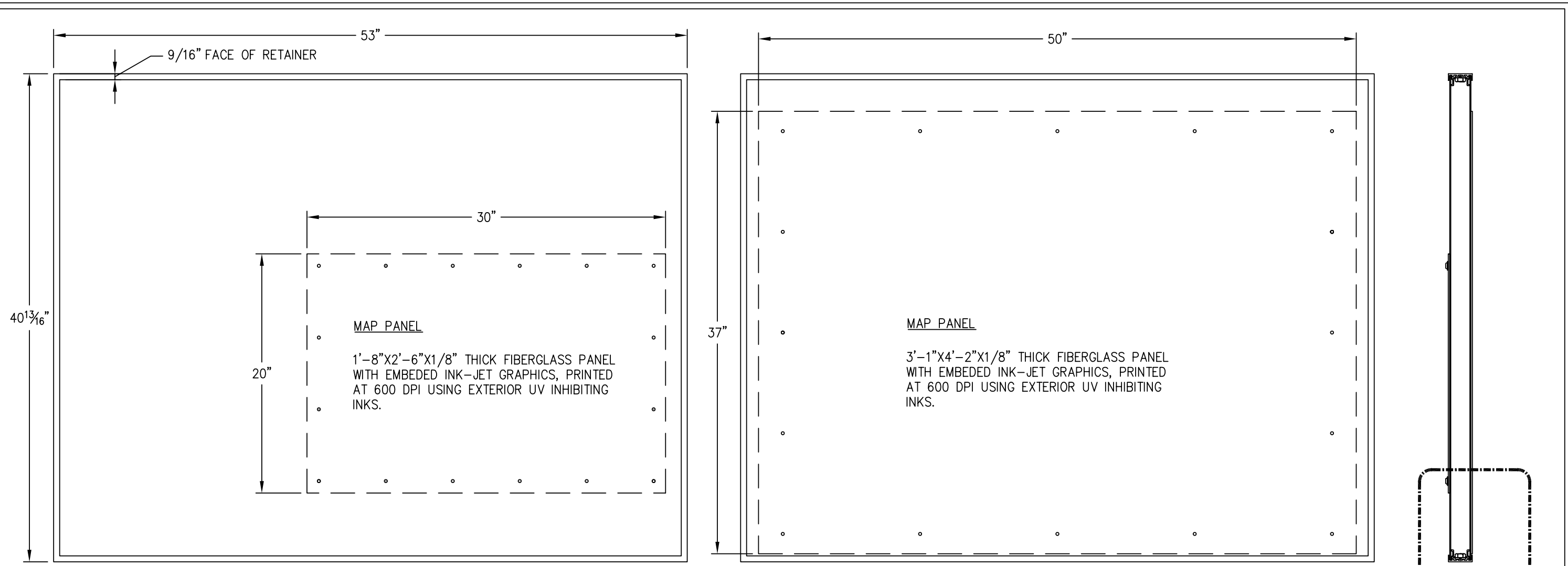
CUSTOMER APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
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5/20/10	*	AK
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DWG TITLE: CONST  
DESCRIPTION: ROOF  
FILE NAME: TT OF ML\PROTO\TYPE2\_2  
BLOCK NAME:

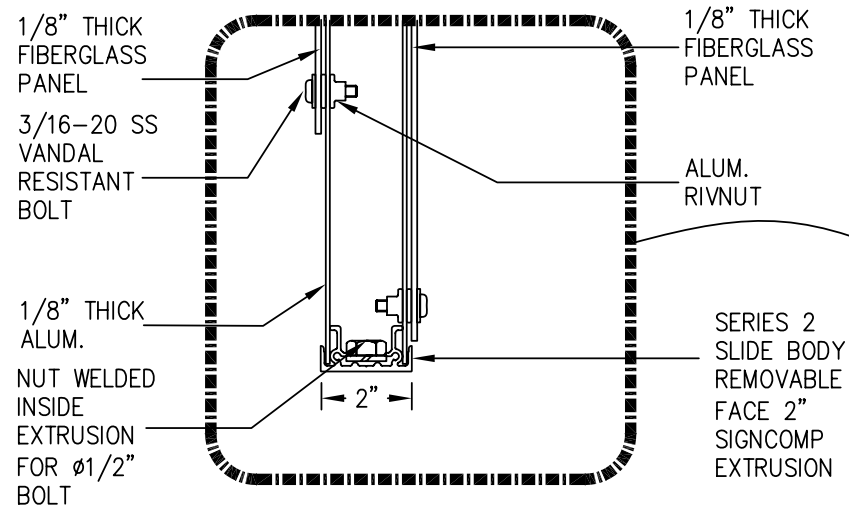
WO# : 66740  
DATE: 4/22/10  
DRAWN BY: AK  
SHEET #: 7 OF #: 10



FRONT VIEW

BACK VIEW

NOTE: ARTWORK FOR MAPS TO BE PROVIDED BY CUSTOMER



ENLARGED DETAIL

SIGN CABINET  
SCALE: 1-1/2"=1'-0"

F-005

SCALE: 6"=1'-0"

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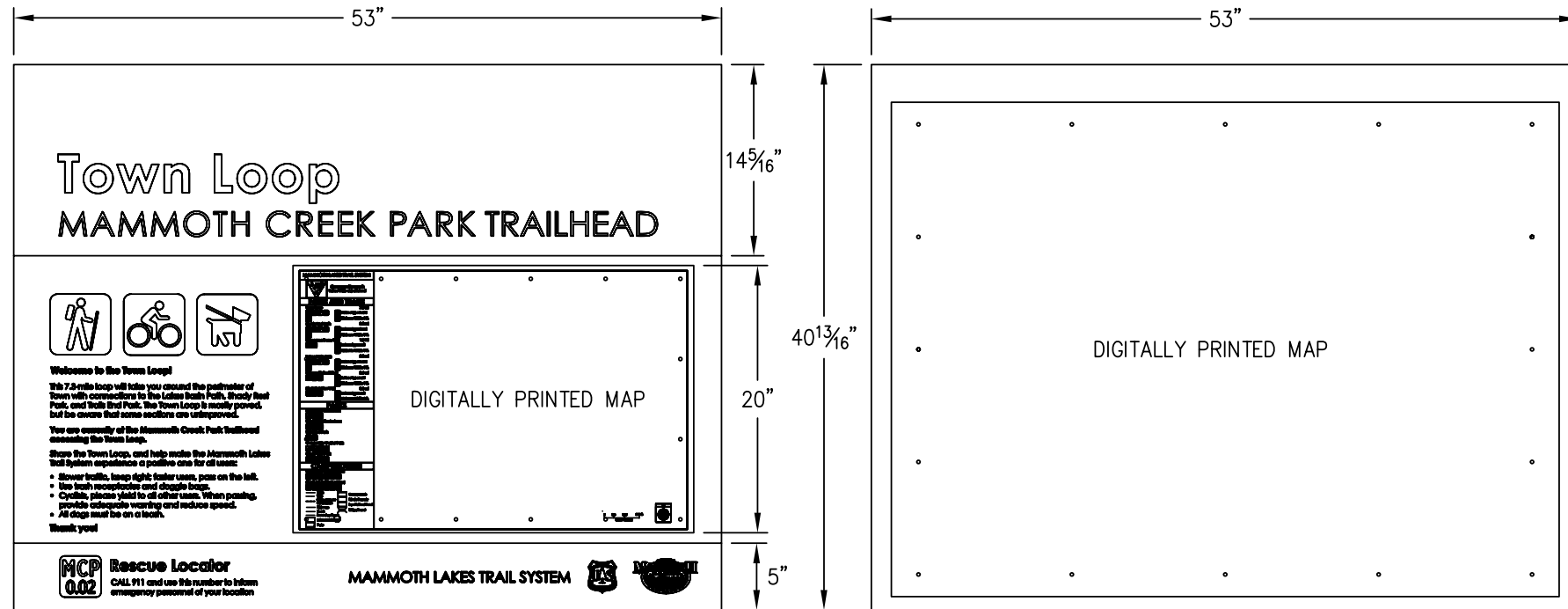
DATE	REVISION	INIT
5/12/10	*	AK
*	*	*
*	*	*
*	*	*

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DWG TITLE: CONST  
DESCRIPTION: SIGN CAB. W/POSTING BOARD  
FILE NAME: TT OF ML\PROTO\TYPE2\_2  
BLOCK NAME:

WO# : 66740  
DATE: 4/22/10  
DRAWN BY: AK  
SHEET #: 8 OF #: 10

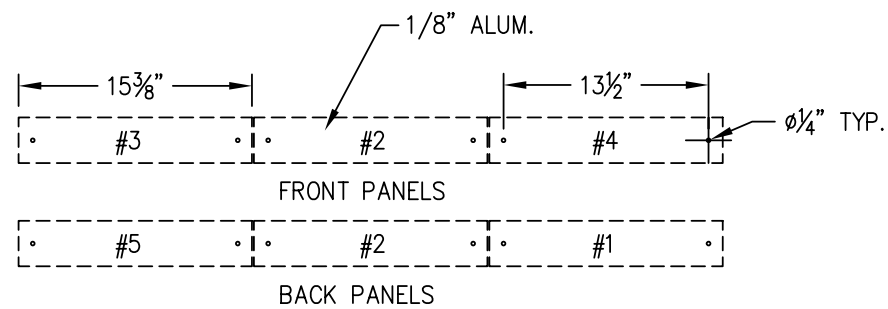
NOTE: SEE ADDITIONAL SHEET (10 OF 10) FOR ALL PAINTS & VINYL SPECS.



**FRONT VIEW**

SCALE: 1"=1'-0"

PLAQUES ATTACH TO CROSS-BEAM WITH Ø3/16" ALUM. POP RIVETS



**LOWER CROSS MEMBER PLAQUES**

SCALE: 1"=1'-0"

FONTS:  
CENTURY GOTHIC BOLD  
CENTURY GOTHIC REGULAR  
CENTURY GOTHIC BOLD ITALIC  
CLEARVIEW HIGHWAY 2B

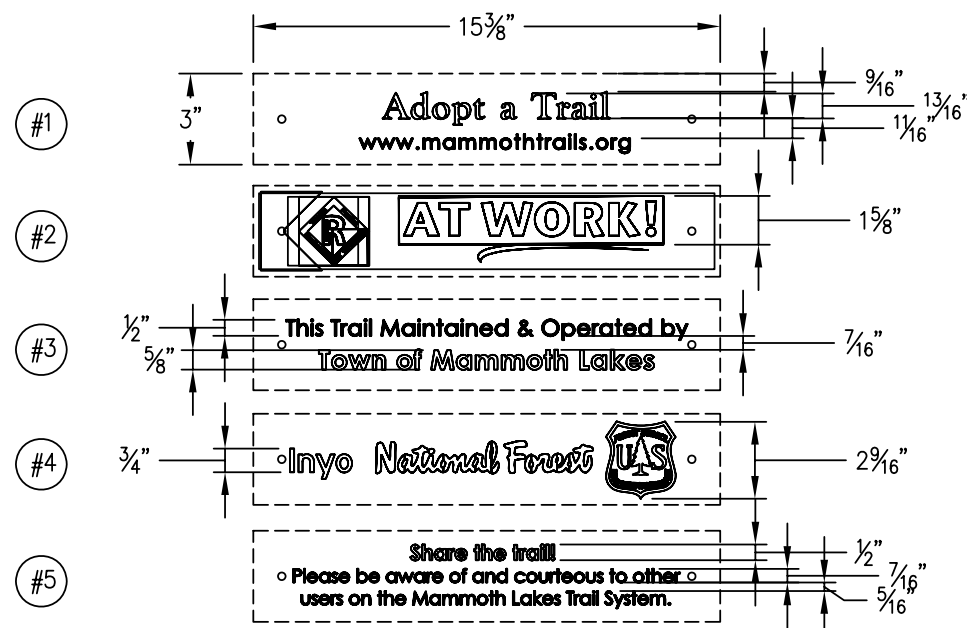
COLORS ON PLAQUES:  
USE BEST MATCHING PAINTS & VINYLs FOR PROTOTYPE

ALL GRAPHICS TO BE 3M 7725 SERIES APPLIED TO PAINTED SURFACE PRIOR TO CLEAR COAT

ITEMS 1,3,4,5 (1) OF EA. REQ'D  
ITEM 2 (2) REQ'D

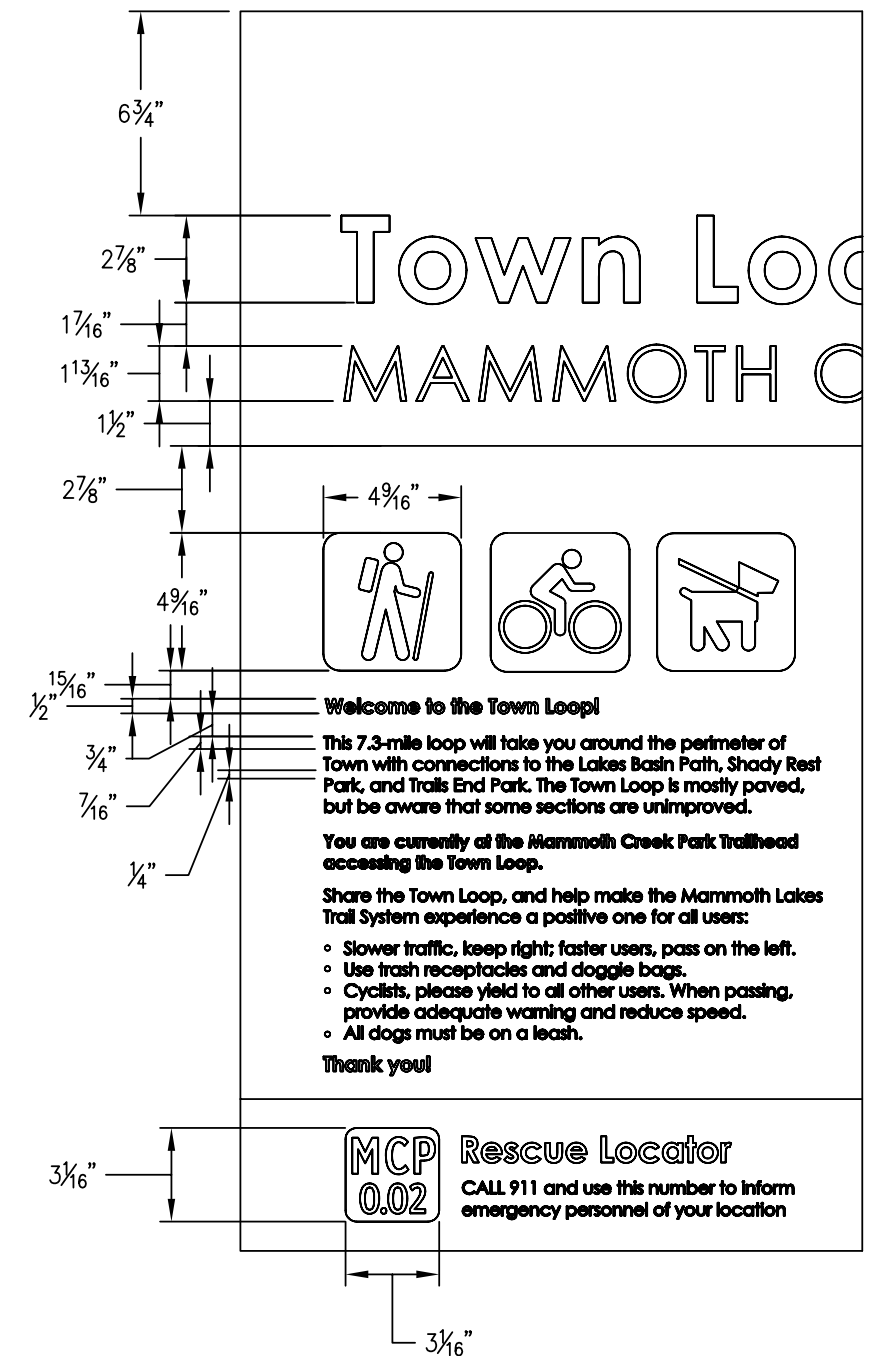
**BACK VIEW**

SCALE: 1"=1'-0"



**ENLARGED PLAQUES**

SCALE: 12"=1'-0"



**ENLARGED GRAPHICS**

SCALE: 12"=1'-0"

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5/20/10	*	AK
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DWG TITLE: GRAPHICS  
DESCRIPTION: GRAPHICS DETAIL  
FILE NAME: TT OF ML\PROTO\TYPE2\_3  
BLOCK NAME:

WO# : 66740  
DATE: 4/27/10  
DRAWN BY: AK  
SHEET #: 9 OF #: 10



