

CITY OF HARDIN

Request for Bids/Estimates

The City of Hardin is seeking bids/estimates from qualified contractors for **Phase I of the City's Wayfinding Implementation Project**.

The project is funded in part through the Montana Department of Commerce Montana Main Street Program. The City's grant contract identifies the project as "Install Phase I of Wayfinding project" and includes the selection of a contractor as part of the project implementation schedule.

The City has already completed the design work for the wayfinding signage. The purpose of this request is to obtain pricing for the fabrication, materials, and installation necessary to implement the approved Phase I wayfinding system.

Copies of the detailed Request for Bids/Estimates, including a description of the services to be provided by respondents, the minimum content of responses, and the factors to be used to evaluate the responses can be obtained by contacting Andrew Lehr, Finance Officer/ City Clerk, 406 North Cheyenne Avenue, Hardin, Montana 59034, phone 406-665-9260 Ext. 101, or by email cityfinance@hardinmontana.gov, reference in the subject line: **Phase I of the City's Wayfinding Implementation Project**. The Request for Bids/Estimates can also be found on the City of Hardin website, hardinmontana.gov, under the public notices page.

Bid Security in the amount equal to at least ten percent (10%) of the bid made payable to the City of Hardin must accompany each bid. The bid security must be either (1) lawful monies of the United States, (2), cashiers check, certified check, bank money order, or bank draft drawn and issued by a national banking corporation, incorporated under the laws of the State of Montana, or (3) a bid bond executed by a surety corporation authorized to do business in the State of Montana.

The City reserves the right to reject any or all bids/estimates and to select the contractor determined to be in the best interest of the City and project.

All responses to the detailed Request for Bids/Estimates must be clearly marked on the outside of the envelope "**Phase I of the City's Wayfinding Implementation Project**", and must be submitted by Friday, September 25, 2026 at 1:30 p.m. to Andrew Lehr, Finance Officer/ City Clerk, 406 North Cheyenne Avenue, Hardin, MT 59034.

Dated this 25th Day of August 2026



Andrew Lehr, Finance Officer/City Clerk

Publish: September 2, and September 9, 2026

CITY OF HARDIN, MONTANA

REQUEST FOR BIDS/ESTIMATES

Phase I – Wayfinding Implementation Project

Date Issued: September 2, 2026 and September 9, 2026

Bid/Estimate Due Date: September 25, 2026, by 1:30 PM

Project Contact: Andrew Lehr, Finance Officer/City Clerk

Email: cityfinance@hardinmontana.gov

Phone: 406-665-9260 ext. 101

Project Overview

The City of Hardin is seeking bids/estimates from qualified contractors for Phase I of the City's Wayfinding Implementation Project.

The project is funded in part through the Montana Department of Commerce Montana Main Street Program. The City's grant contract identifies the project as "Install Phase I of Wayfinding project" and includes the selection of a contractor as part of the project implementation schedule.

The City has already completed the design work for the wayfinding signage. The purpose of this request is to obtain pricing for the fabrication, materials, and installation necessary to implement the approved Phase I wayfinding system.

Scope of Work

The selected contractor will be responsible for providing the materials, labor, equipment, and services necessary to complete the Phase I wayfinding implementation, including:

- Fabrication of approximately 10 wayfinding signs according to the City's approved designs and specifications.
- Provision of all required sign materials, posts, hardware, mounting components, and related materials.
- Installation of the wayfinding signs at locations identified by the City.
- Appropriate installation and securing of signs for long-term outdoor use.
- Coordination with the City regarding installation locations and scheduling.
- Cleanup and removal of any construction-related debris following installation.
- Any other work reasonably necessary to complete the wayfinding installation as shown in the City's approved plans/specifications.

A majority of the proposed wayfinding signs will be located within or adjacent to Montana state rights-of-way. The selected contractor shall coordinate with the appropriate state agency on sign placement, installation requirements, permits, approvals, and any applicable right-of-way requirements. The contractor shall ensure that all installation work within state rights-of-way complies with applicable requirements and shall coordinate with the City of Hardin on any required documentation, approvals, or scheduling.

The City's approved wayfinding designs and specifications will be provided to contractors as part of this request and shall be considered part of the project requirements.

Bid/Estimate Requirements

Please provide the following:

1. Total project cost, including materials, fabrication, labor, equipment, delivery, and installation.
2. Any applicable fees or other charges.
3. Estimated timeframe for fabrication and installation.
4. Warranty information, if applicable.
5. A brief description of the company or contractor's experience with similar signage projects.
6. At least two references for similar projects completed.
7. Any assumptions, exclusions, or additional costs that the City should be aware of.
8. A bid bond in the amount of at least 10% of the total project cost. The bid bond will be returned in accordance with the City's bid process.
9. Proof of a valid City of Hardin business license and registration with the Montana Secretary of State.

10. If selected to complete the work, the contractor must list the City of Hardin as an additional insured on the contractor's liability insurance policy.

Contractor Selection

The City of Hardin will review the bids/estimates received based on overall cost, ability to meet the project specifications, experience, proposed timeline, and ability to complete the project.

The City reserves the right to reject any or all bids/estimates and to select the contractor determined to be in the best interest of the City and project.

Project Funding

This project is being funded through the Montana Department of Commerce Montana Main Street Program. The executed grant contract identifies a \$40,000 Montana Main Street grant and a total project cost of \$55,000.

All work must comply with the approved project scope, applicable City requirements, and applicable grant requirements.

Submission

Please submit your bid/estimate by September 25, 2026, by 1:30 PM to:

City of Hardin

Attn: Andrew Lehr, Finance Officer/City Clerk

Email: cityfinance@hardinmontana.gov

Phone: 406-665-9260 ext. 101

The City of Hardin appreciates your interest in providing a bid/estimate for this project.

HARDIN WAYFINDING SIGNAGE

HARDIN, MT

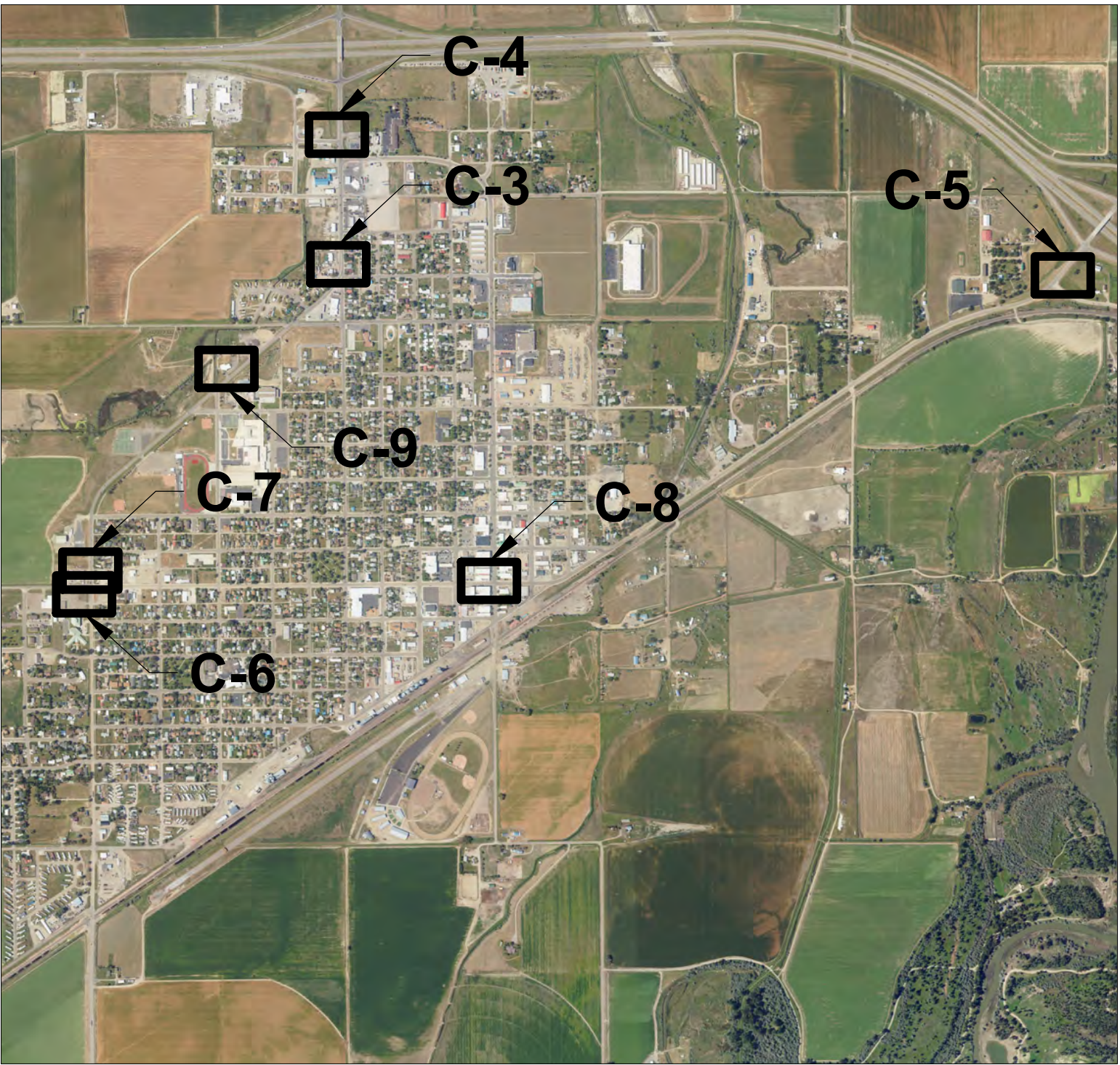


UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITY MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CONTACT

CITY OF HARDIN
ALEXANDRIA EDWARDS
406 N. CHEYENNE
HARDIN, MT 59034
406-665-9260 EXT. 124



VICINITY MAP

1" = 1500'

OWNER/DEVELOPER

CITY OF HARDIN, MT
406 N. CHEYENNE
HARDIN, MT 59034
406-665-9260

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PREPARED BY



127 N. 27TH STREET
SUITE 1312
BILLINGS, MT 59101

PH: 406.256.1141
www.imegcorp.com

IMEG CORP. HAS ADOPTED SAFETY PROCEDURES FOR ITS EMPLOYEES WHO PROVIDE PROFESSIONAL ENGINEERING AND SURVEYING SERVICES. A COPY OF THESE PROCEDURES IS AVAILABLE FROM THE SAFETY OFFICER. IMEG CORP. PERSONNEL ARE NOT TRAINED IN CONTRACTOR (CONSTRUCTION) SAFETY AND COMPLIANCE PROCEDURES. THE METHODS AND MEANS TO COMPLY WITH CONSTRUCTION SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

ISSUED FOR CONSTRUCTION
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LAST REVISED
03/30/2026

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GENERAL NOTES

1. A MINIMUM OF 24-HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF HARDIN.
2. ALL NEWLY CUT OR FILLED AREAS, LACKING ADEQUATE VEGETATION, SHALL BE SEEDED, MULCHED, FERTILIZED AND/OR SODDED AS REQUIRED TO EFFECTIVELY CONTROL SOIL EROSION.
3. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY COMPANIES WHICH MAINTAIN A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT OR IN THE STREETS BORDERING THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING THE WORK ON THE PROJECT.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
5. ALL FILL SOILS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTM D-698) WITHIN 3% OF OPTIMUM MOISTURE CONTENT IN LIFTS NOT TO EXCEED SIX (6) INCHES OF COMPACTED THICKNESS.
6. ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF HARDIN STANDARD CONSTRUCTION SPECIFICATIONS.
7. PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION, GRADING, CLEARING AND THE ERECTION OR REMOVAL OF FENCES ALONG PROPERTY LINES SHALL BE FULLY COORDINATED WITH ADJACENT PROPERTY OWNERS.
8. VERIFY SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE ENGINEER OF ANY VARIATIONS PRIOR TO COMMENCEMENT OF WORK.
9. ALL GRADING WORK SHALL BE PERFORMED IN SUCH A MANNER THAT ADJACENT PROPERTIES ARE NOT DAMAGED OR ADVERSELY AFFECTED.
10. LOT DRAINAGE: FINISH GRADE SHALL BE SLOPED AWAY FROM THE FOUNDATION FOR DRAINAGE. THE FINISH GRADE MUST BEGIN AT LEAST 12-INCHES BELOW THE TOP OF THE FOUNDATION WALL OR GRADE OF THE CONCRETE SLAB AT THE INTERIOR IN THE CASE OF AN INTEGRAL SLAB AND FOUNDATION. THE MINIMUM GRADE AWAY FROM THE FOUNDATION SHALL BE TWO PERCENT (2%) IN ALL DIRECTIONS. THE DRIVEWAY SHALL BE SLOPED DOWN AT TWO PERCENT (2%) FOR AT LEAST EIGHT FEET FROM THE STRUCTURE

TRAFFIC CONTROL NOTES

1. SEE SECTION 6F.03, SIGN PLACEMENT, OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR INFORMATION ON PLACEMENT AND MOUNTING OF SIGNS.
2. SIGNS SHOWN ON THIS PLAN ARE TO WARN TRAFFIC ABOUT THE CONSTRUCTION. OTHER TRAFFIC CONTROL DEVICES MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.
3. NOTHING IN THIS PLAN IS INTENDED TO SUPERSEDE OR RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT STATE OF TENNESSEE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
4. CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF HARDIN DEPARTMENT OF PUBLIC WORKS. A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
5. SIZES OF ALL SIGNS SHALL COMPLY WITH STATE OF MONTANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
6. ALL TRAFFIC CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARD PRESCRIBED IN THE STATE OF MONTANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL COMPLY WITH THE STATE OF MONTANA STANDARD SPECIFICATIONS.
7. ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
8. SIDE STREET, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
9. THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
10. CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "C" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
11. DRUMS WITH TYPE "C" WARNING LIGHTS SHALL DELINEATE THE EDGE OF PAVEMENT THROUGH THE ENTIRE CONSTRUCTION AREA.
12. CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN COVERED DURING CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXISTS.
13. CONTRACTOR SHALL INSTALL TEMPORARY NO PARKING SIGNS AS REQUIRED WITHIN THE TRAFFIC CONTROL AREA.
14. TWO-WAY TRAFFIC SHALL BE MAINTAINED ON AT ALL TIMES.
15. DURING CONSTRUCTION, A MINIMUM OF ONE FOOT LANE OF TRAFFIC SHALL REMAIN OPEN TO BOTH DIRECTIONS OF TRAFFIC AT ALL TIMES.
16. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN AT LEAST ONE FOOT LANE OF TRAFFIC FOR EACH DIRECTION ON AT ALL TIMES AND SHALL MAINTAIN A TEMPORARY CENTER LINE OR CONES THROUGH THE CONSTRUCTION AREA.
17. ONE/TWO FOOT LANES OF TRAFFIC SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.
18. WORK WITHIN THE ROADWAY DURING DIFFERENT PHASES OF CONSTRUCTION SHALL NOT BE ACTIVE AT THE SAME TIME.
19. ONLY ONE PHASE OF THE TRAFFIC CONTROL PLAN SHALL BE ACTIVE AT ANY ONE TIME.
20. ONLY ONE CONSTRUCTION SITE ON SHALL BE ACTIVE AT ANY ONE TIME.
21. ALL TEMPORARY OR PERMANENT TRAVELED SURFACE SHALL BE INSPECTED DAILY BY THE CONTRACTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR RE-FINISHING PERFORMED.
22. MARKINGS SHALL BE MAINTAINED IN LONG-TERM STATIONARY WORK AREAS AND SHALL MATCH AND MEET THE MARKINGS IN PLACE AT BOTH ENDS OF THE WORK AREA.
23. CENTERLINE/LANE LINES SHOULD BE PLACED, REPLACED, OR DELINEATED WHERE APPROPRIATE BEFORE THE ROADWAY IS OPENED TO TRAFFIC.
24. CHANNELIZING DEVICES SHALL BE REMOVED TO THE EDGE OF PAVEMENT AT THE END OF EACH WORK DAY. NO CLOSURE SHALL BE IN EFFECT FROM 4:00 P.M. UNTIL 9:00 A.M. TWO 12 FOOT LANES SHALL BE OPEN DURING THIS PERIOD WITH AT LEAST A 4 INCH THICK COMPACTED GRAVEL SURFACE.
25. WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M. AND 4:00 P.M. AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT ALL OTHER TIMES AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
26. CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
27. CONTRACTOR SHALL CONTACT THE CITY OF HARDIN PUBLIC WORKS DEPARTMENT FOR LOCATION OF SIGNAL CONDUIT AND WIRES.
28. THE APPROPRIATE TRAFFIC CONTROL SHALL BE INSTALLED AT THE INCEPTION OF EACH STAGE OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER.
29. OBLITERATED MARKINGS SHALL BE UNIDENTIFIABLE AS PAVEMENT MARKINGS UNDER DAY OR NIGHT, WET OR DRY CONDITIONS. OVERLAYING EXISTING STRIPES WITH BLACK PAINT OR ASPHALT DOES NOT MEET THE REQUIREMENTS OF COVERING, REMOVAL, OR OBLITERATION;HOWEVER, THE USE OF REMOVABLE, NONREFLECTIVE, PREFORMED TAPE IS PERMITTED WHERE MARKINGS NEED TO BE COVERED TEMPORARILY.
30. AT NO TIME SHALL ONE LANE SECTION BE LEFT OPEN UNATTENDED. WHERE TWO FLAGGERS ARE REQUIRED AND IN CIRCUMSTANCES WHERE ONLY ONE LANE OF TRAFFIC IS OPEN AND THERE IS NO CLEAR LINE OF SIGHT FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, THE CONTRACTOR SHALL PROVIDE RADIO COMMUNICATION OR OTHER APPROPRIATE MEANS OF ESTABLISHING CONTROL OF TRAFFIC.
31. ANYTIME FLAGGER IS NOT PRESENT TO CONTROL TRAFFIC, TWO TRAFFIC LANES MUST BE OPEN TO MAINTAIN TWO-WAY TRAFFIC AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
32. ALL FLAGGERS SHALL BE EQUIPPED WITH A STOP/SLOW PADDLE.
33. IF CONSTRUCTION ACTIVITIES REQUIRE OVER-NIGHT CLOSURE OF ANY PORTION OF THE ROADWAY, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY PUBLIC WORKS OFFICE.
34. EXISTING STRIPING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE COVERED OR REMOVED DURING CONSTRUCTION. WHEN CONSTRUCTION IS COMPLETE THE EXISTING STRIPING SHALL BE RETURNED TO ITS ORIGINAL STATE.
35. ALL TRAFFIC CONTROL SIGNS SHALL MEET THE MINIMUM RETROREFLECTIVITY LEVELS SPECIFIED IN THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
36. ALL TEMPORARY STRIPING SHALL BE PREFORMED TAPE.
37. THE CONTRACTOR IS PROHIBITED FROM CLOSING THE EXISTING SIDEWALK AT ANYTIME DURING THIS PROJECT. IF A SIDEWALK CLOSURE IS NEEDED, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER'S OFFICE.
38. THE CONTRACTOR WILL MAINTAIN ACCESS FOR CITY OF HARDIN SIGNAL CREWS TO PERFORM MAINTENANCE ON THE SIGNAL POLES IN AFFECTED AREA.

REVISIONS

DESCRIPTION	DATE

No.

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HARDIN WAYFINDING SIGNAGE

HARDIN, MT

CONSTRUCTION NOTES

IMEG Project No:
25001021

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25001021-SIGN_PLAN.dwg

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IMEG					
127 N. 27TH STREET SUITE 1312 BILLINGS, MT 59101 PH: 406.266.1141 www.imegcorp.com					
IMEG Project No: 25001021					
File Name: 25001021-SIGN_PLAN.dwg					
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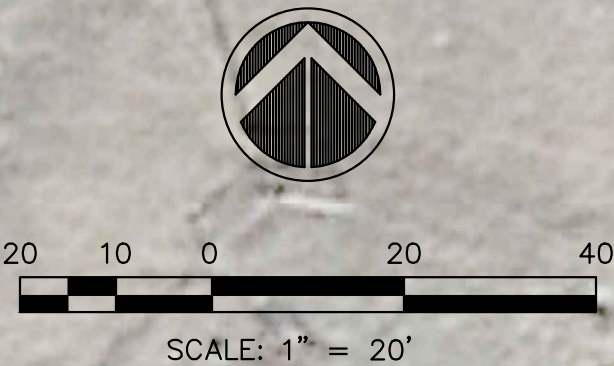
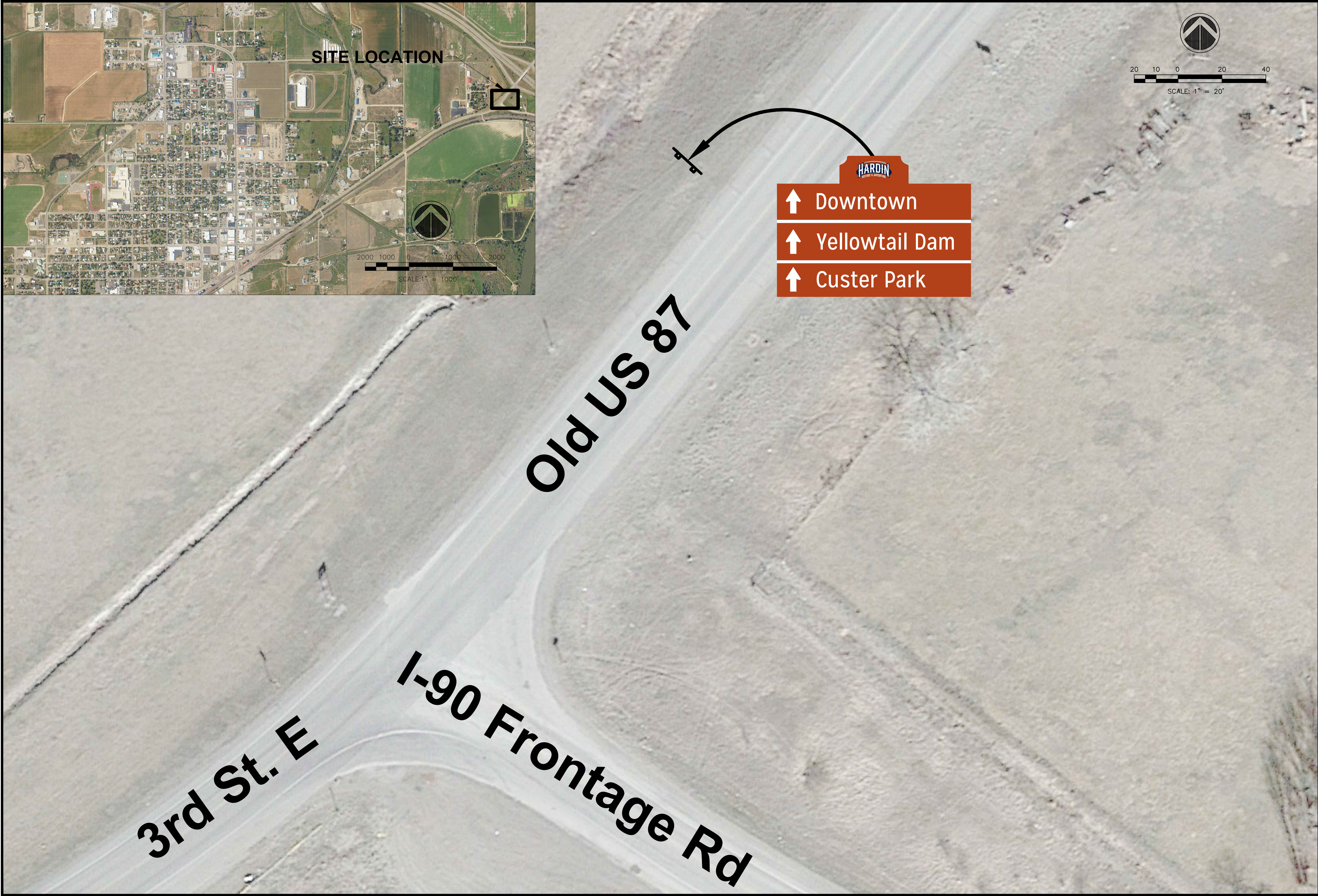
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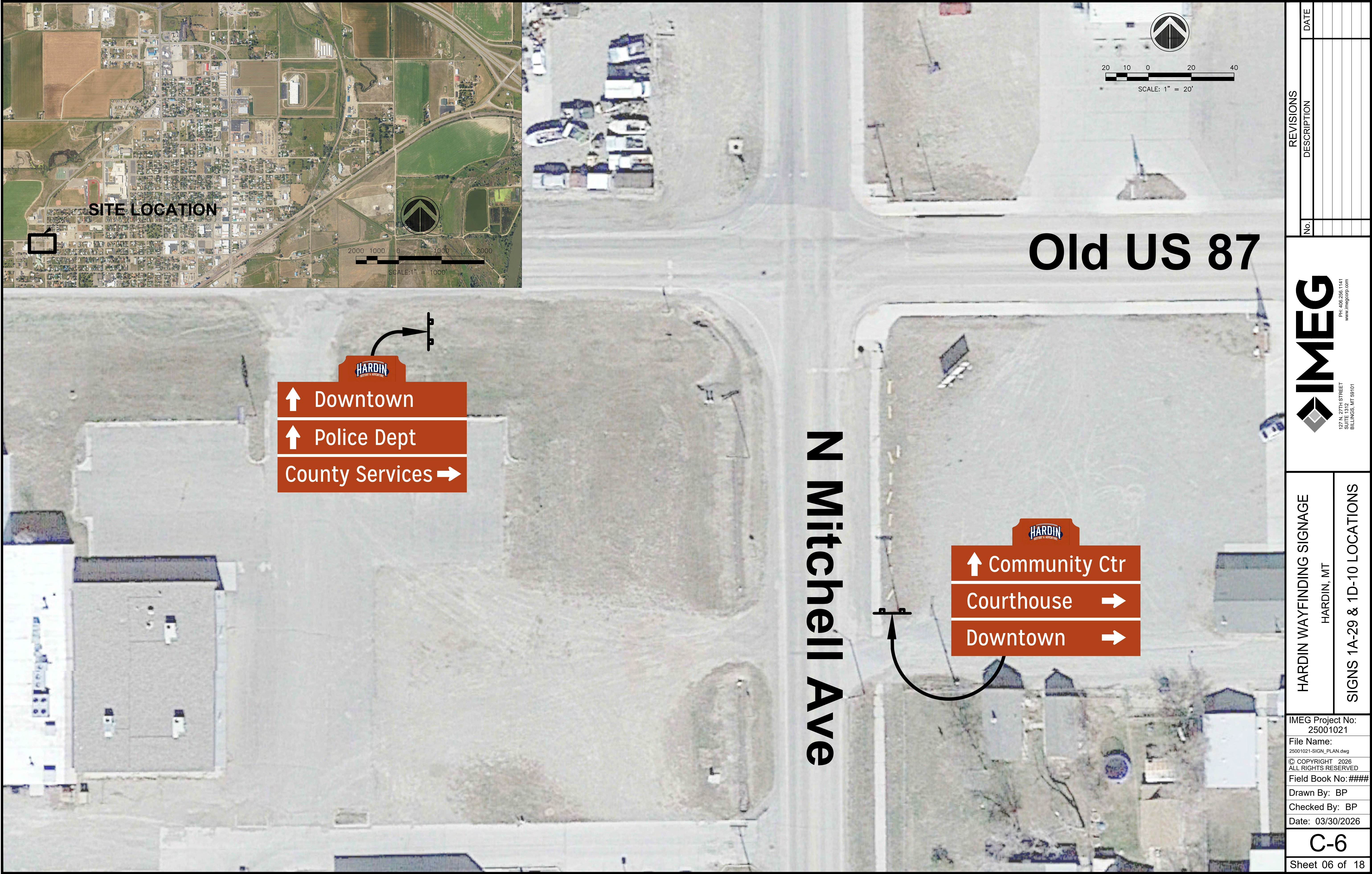
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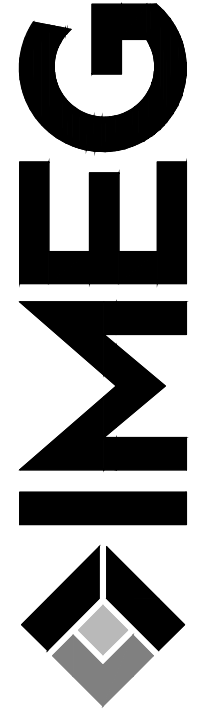
- 
↑ Downtown
- ↑ Yellowtail Dam
- ↑ Custer Park

HARDIN WAYFINDING SIGNAGE		REVISIONS	
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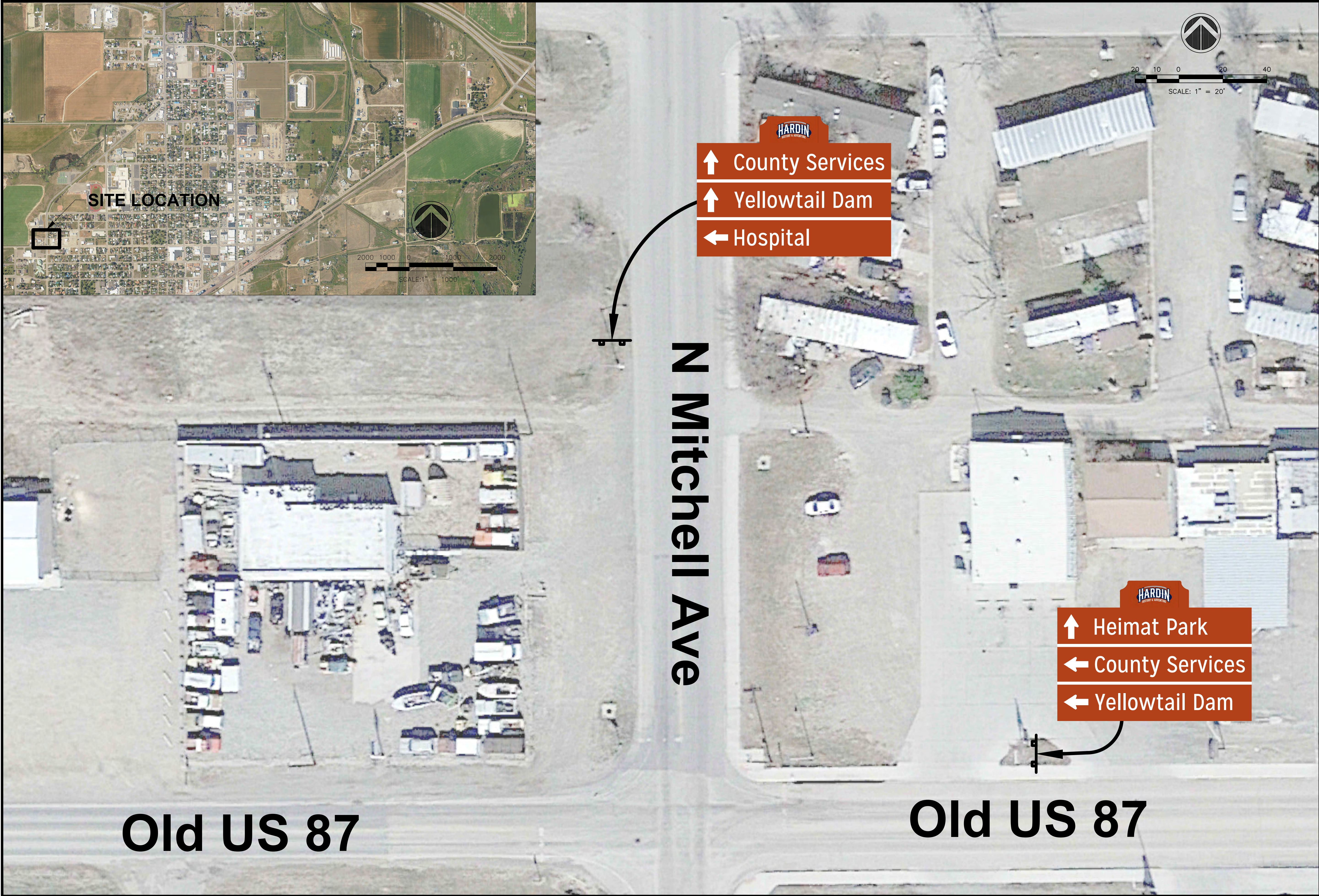
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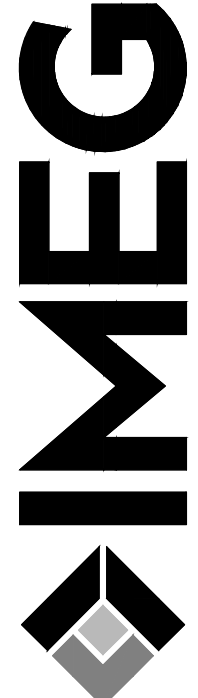
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HARDIN WAYFINDING SIGNAGE

HARDIN, MT

SIGNS 1B-18 & 1B-28 LOCATIONS

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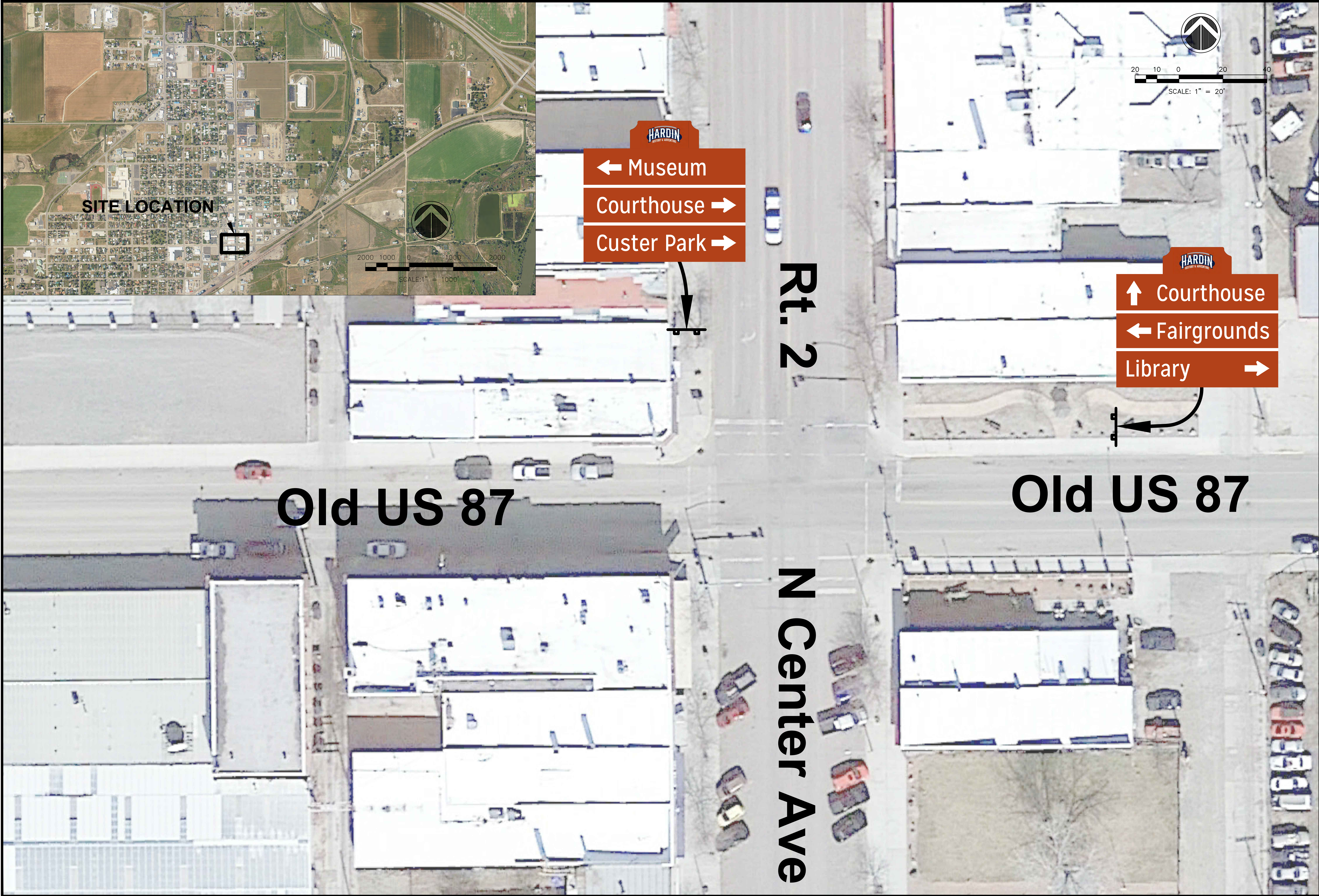
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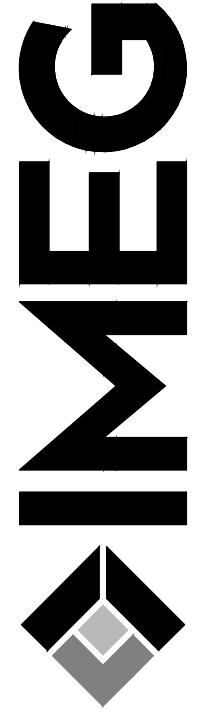


IMEG 127 N. 27TH STREET SUITE 1312 BILLINGS, MT 59101 PH: 406.266.1141 www.imegcorp.com		REVISIONS	
		DESCRIPTION	DATE
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IMEG Project No: 25001021		File Name: 25001021-SIGN_PLAN.dwg	
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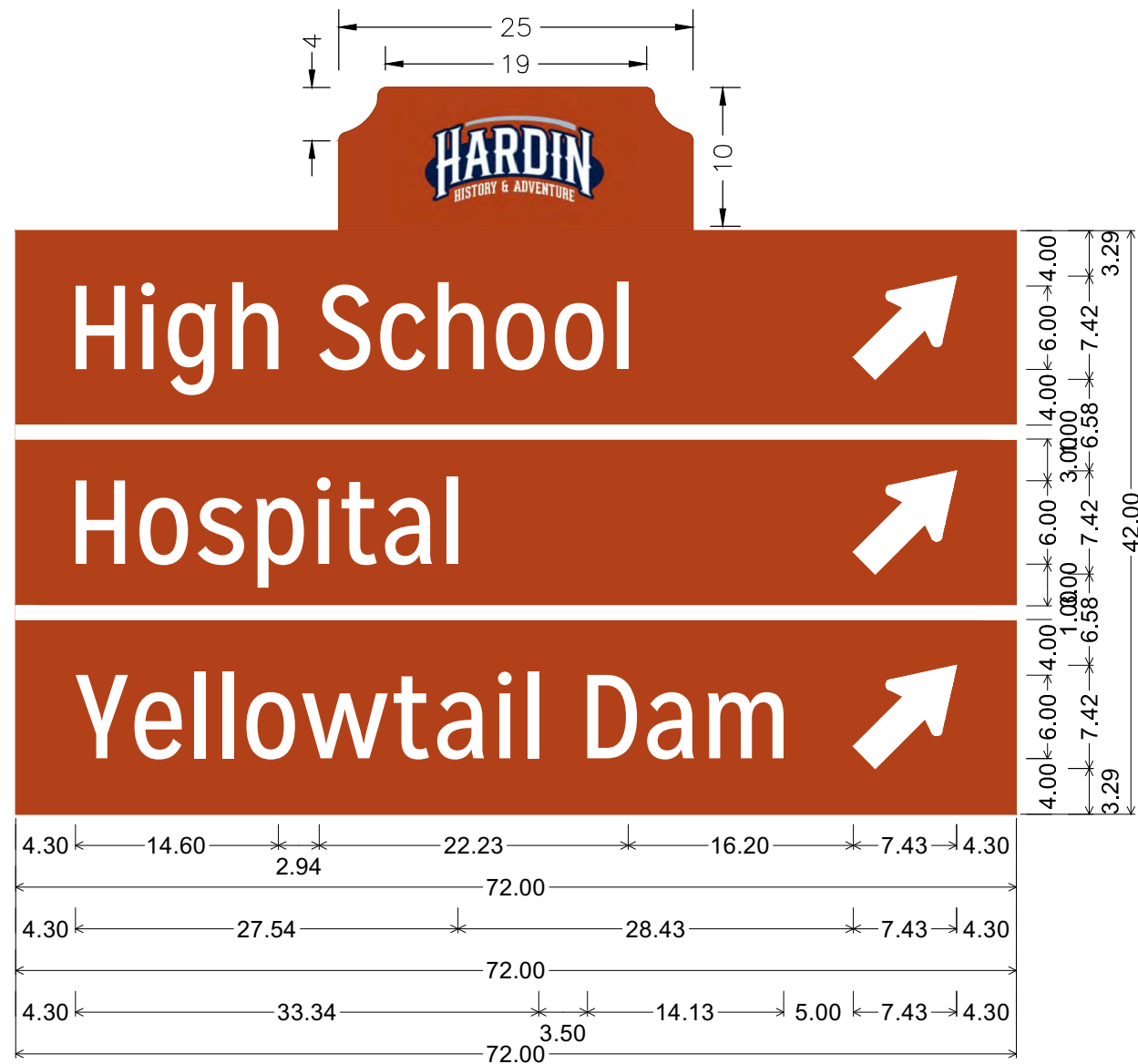


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HARDIN WAYFINDING SIGNAGE	
HARDIN, MT	
SIGN 1D-24 LOCATION	

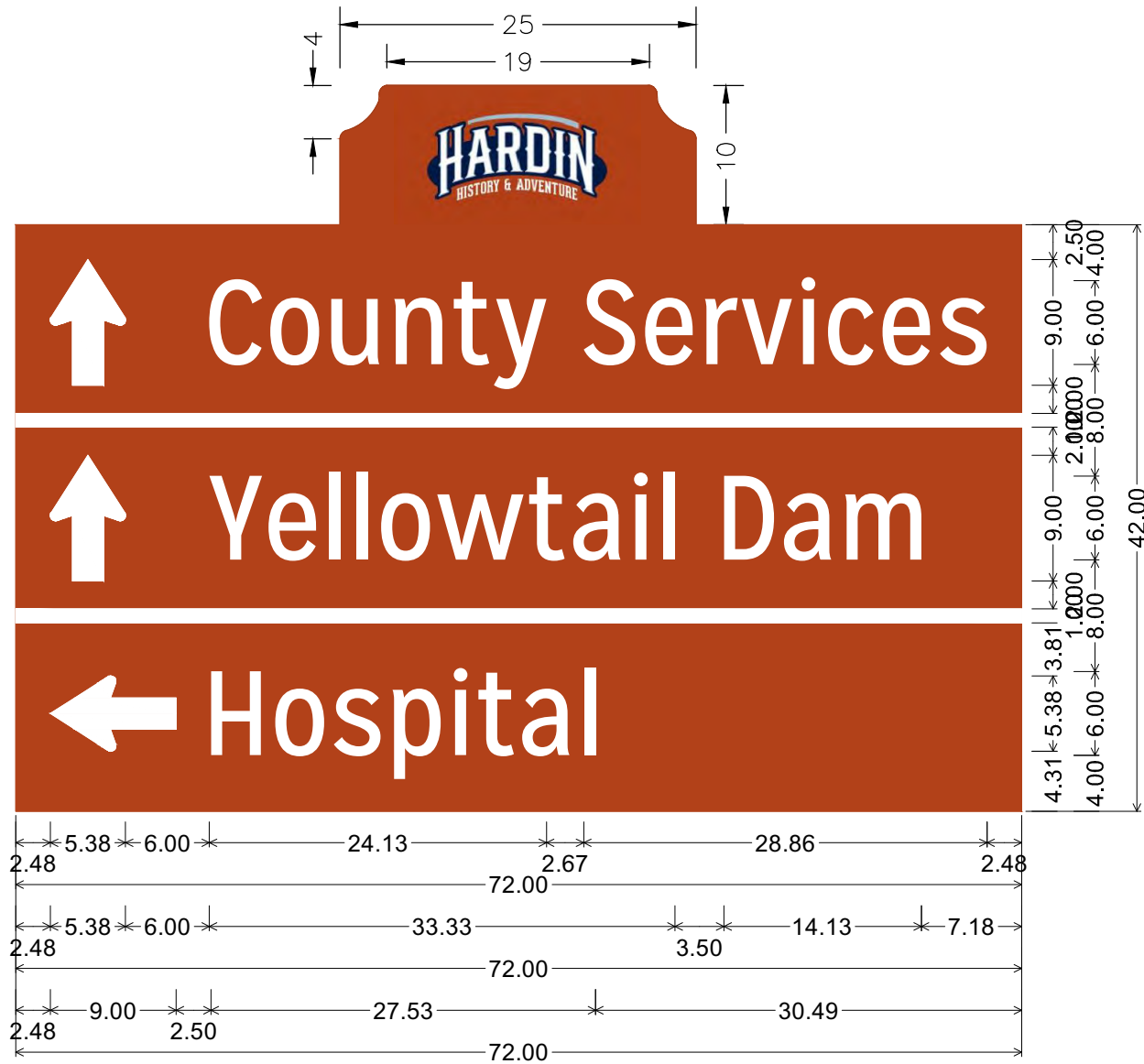
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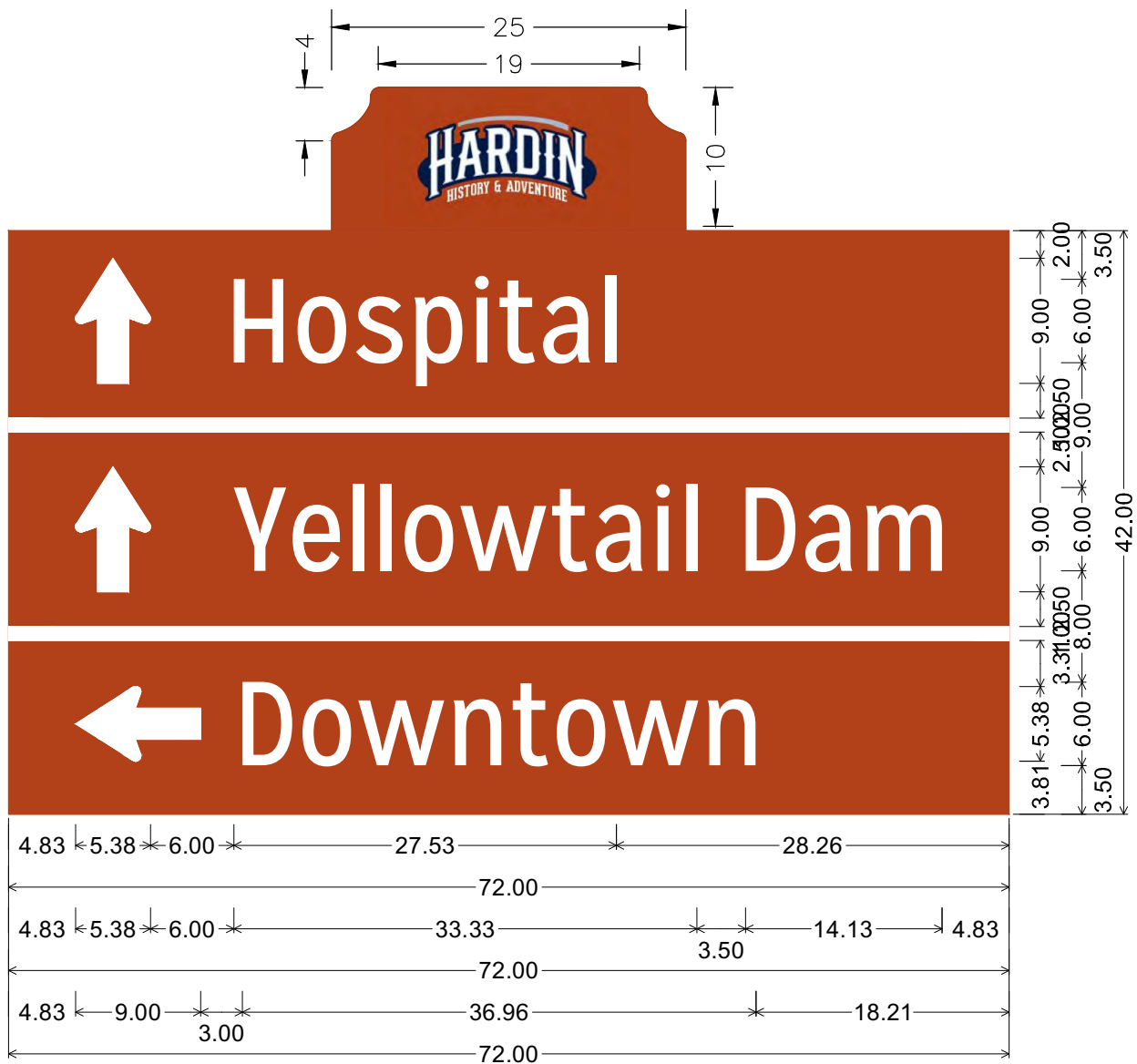
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"Yellowtail Dam" White, Mission Gothic Regular;
Standard Arrow Custom 9.38" X 5.38" 180" White;

1A-16



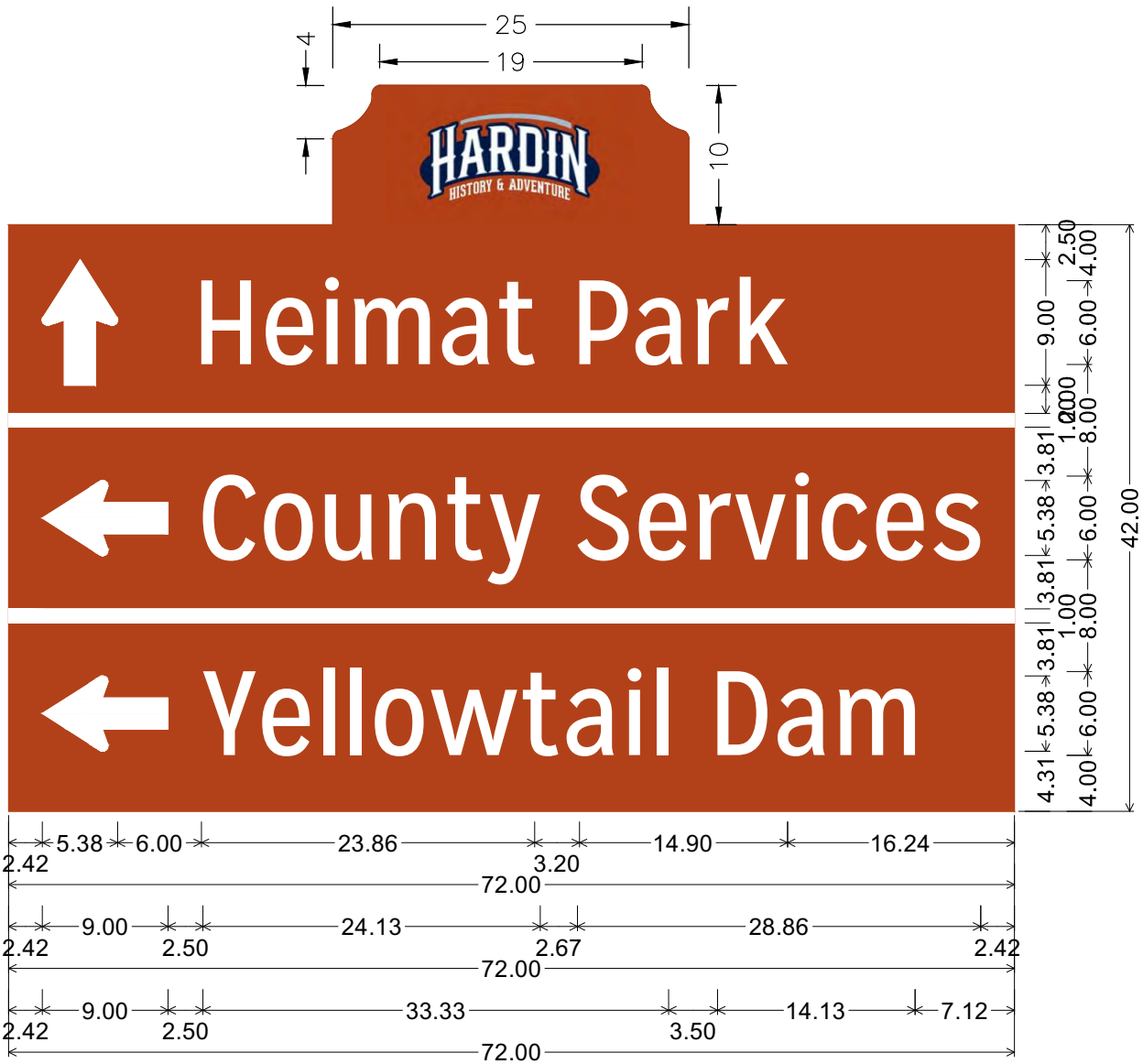
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1B-18



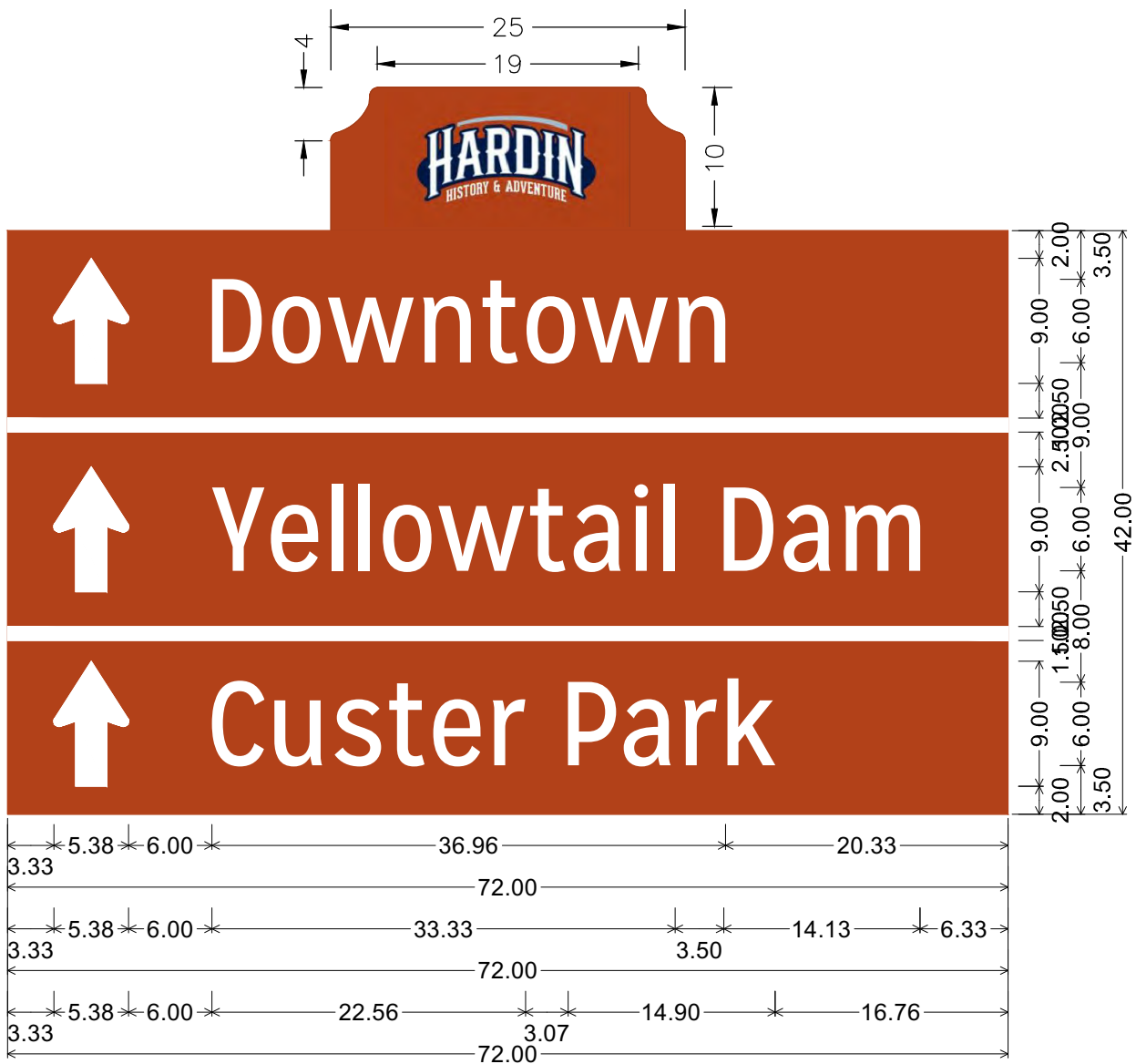
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"Downtown" White, Mission Gothic Regular;

1A-19



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"County Services" White, Mission Gothic Regular; Horizontal Line White;
Standard Arrow Custom 9.00" X 5.38" 180" White;
"Yellowtail Dam" White, Mission Gothic Regular;

1B-28



No border, RGB(178,65,25);
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1A-22



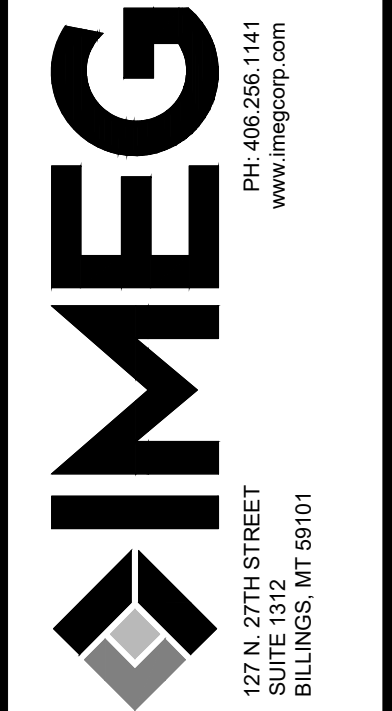
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"County Services" White, Mission Gothic Regular;
Standard Arrow Custom 9.00" X 5.38" 0" White;

1A-29

NOTES

- ALL SIGN DIMENSIONS ARE IN INCHES.
- THE DIMENSIONS OF THE TOP PLAQUE ON THE SIGN, AS SHOWN ON 1B-18, ARE THE SAME FOR ALL SIGNS.

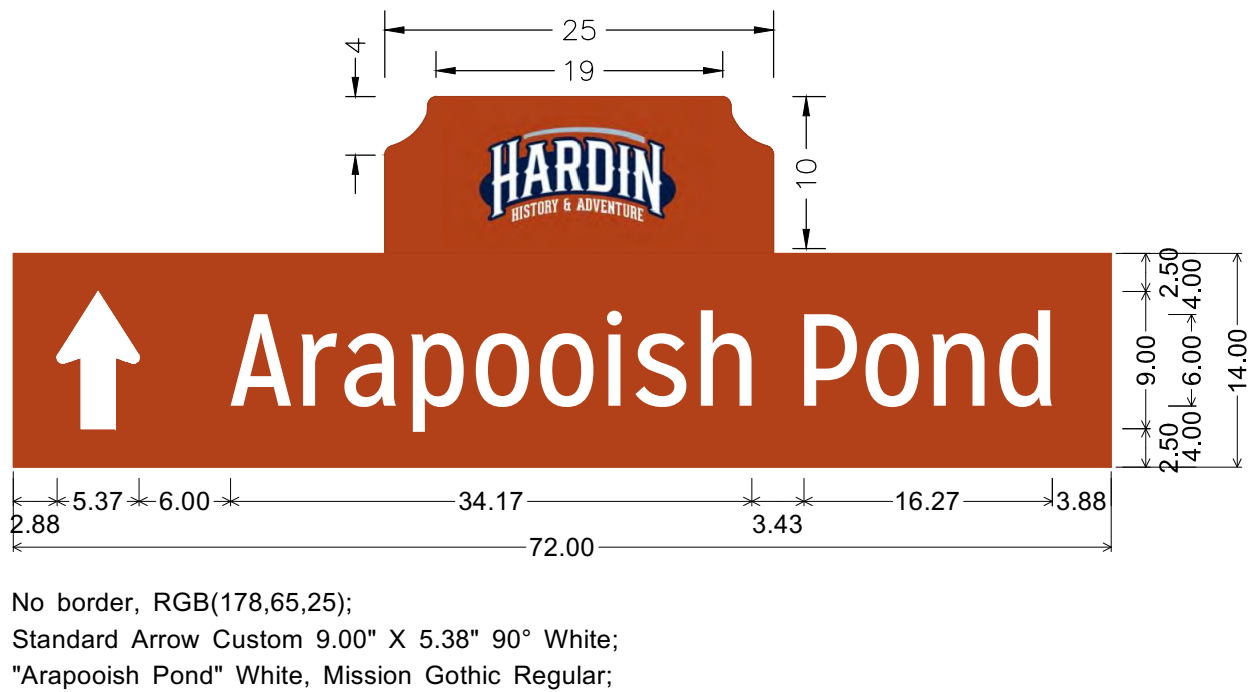
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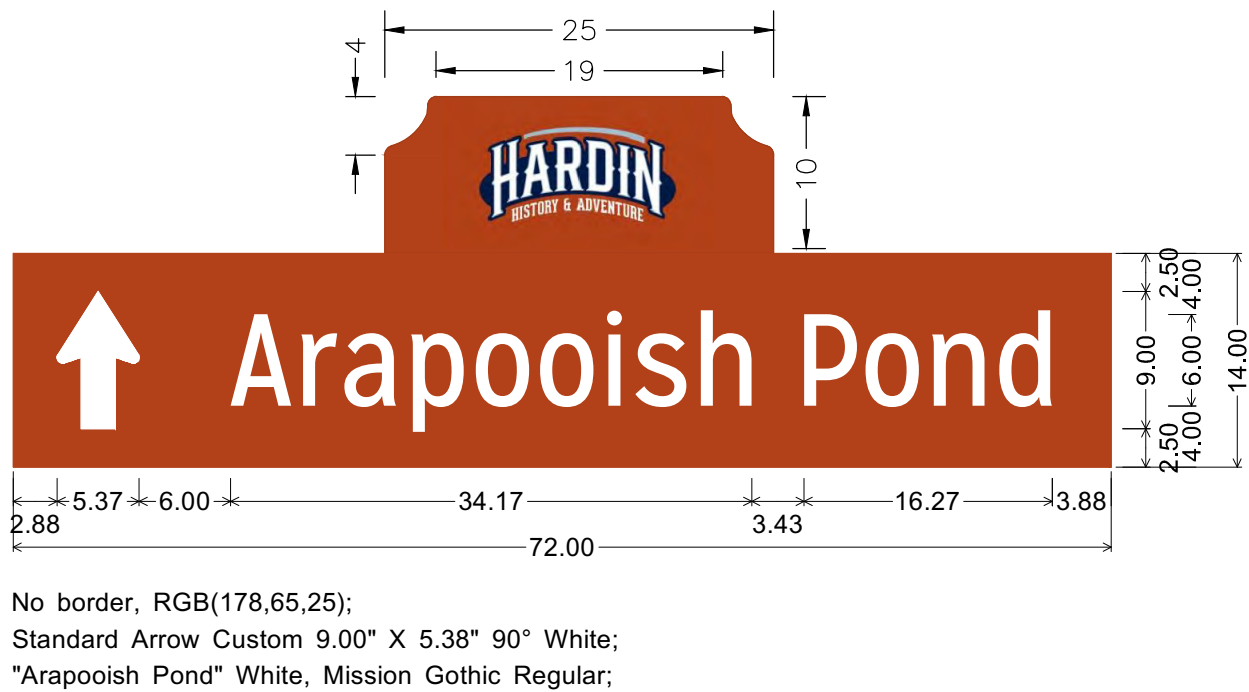
HARDIN WAYFINDING SIGNAGE	HARDIN, MT
SIGN KEY & SPECIFICATIONS	

IMEG Project No: 25001021
File Name: 25001021-SIGN_PLAN.dwg
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Drawn By: BP
Checked By: BP
Date: 03/30/2026
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Sheet 10 of 18

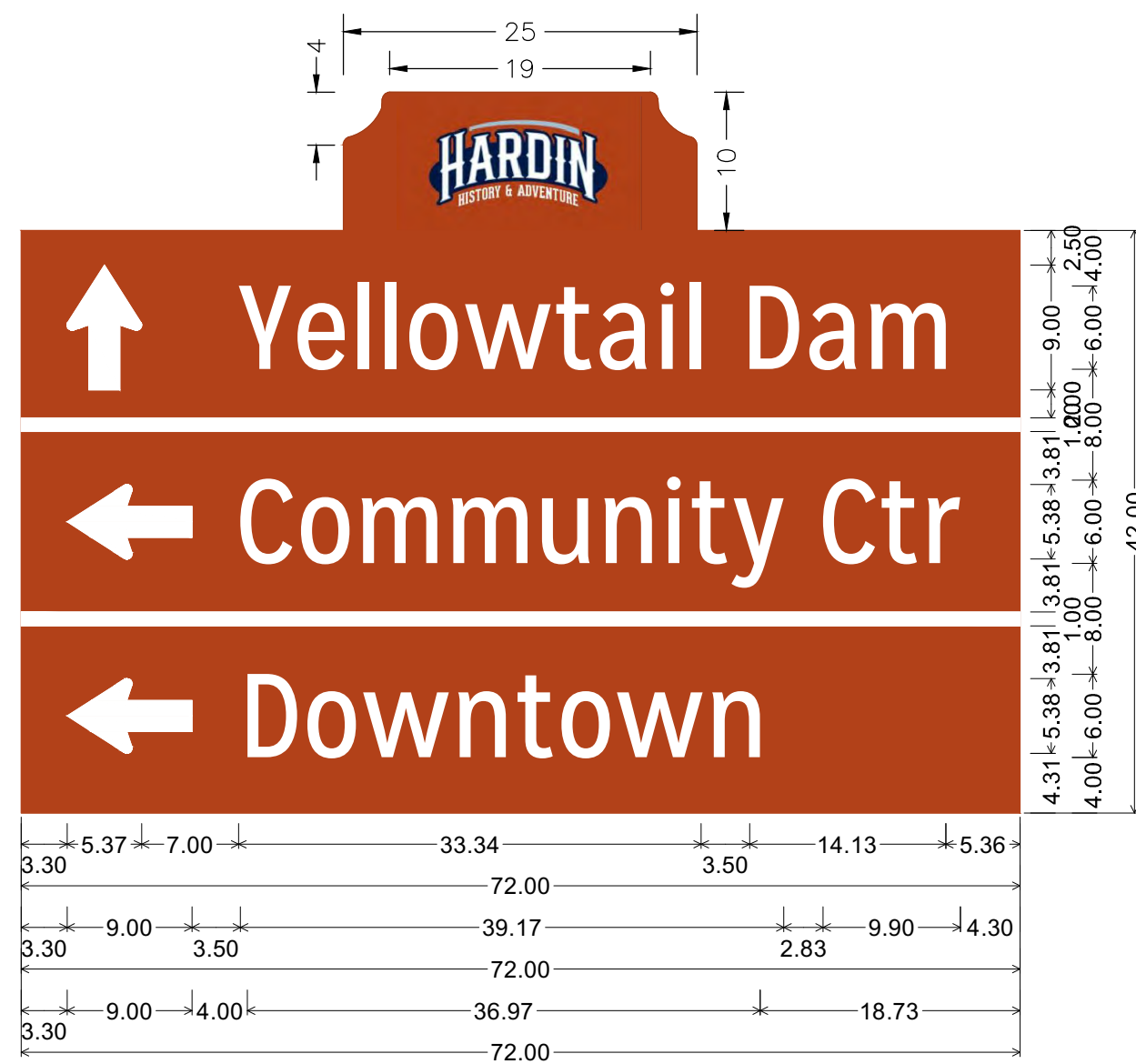
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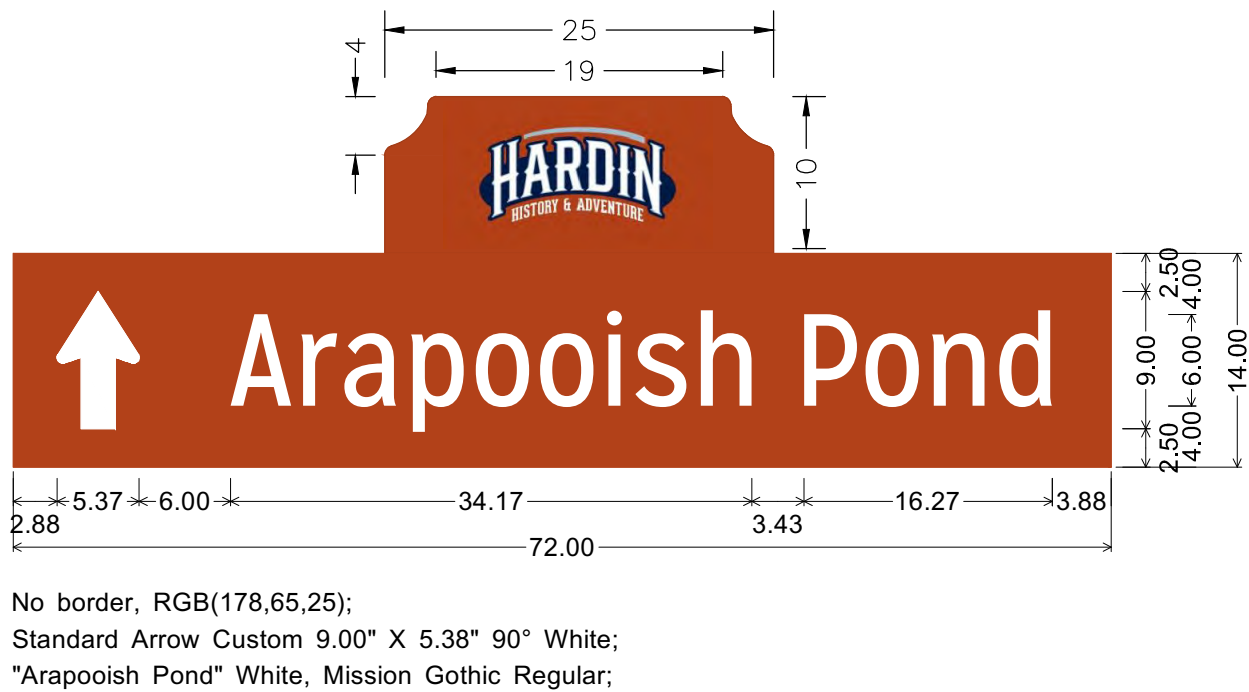
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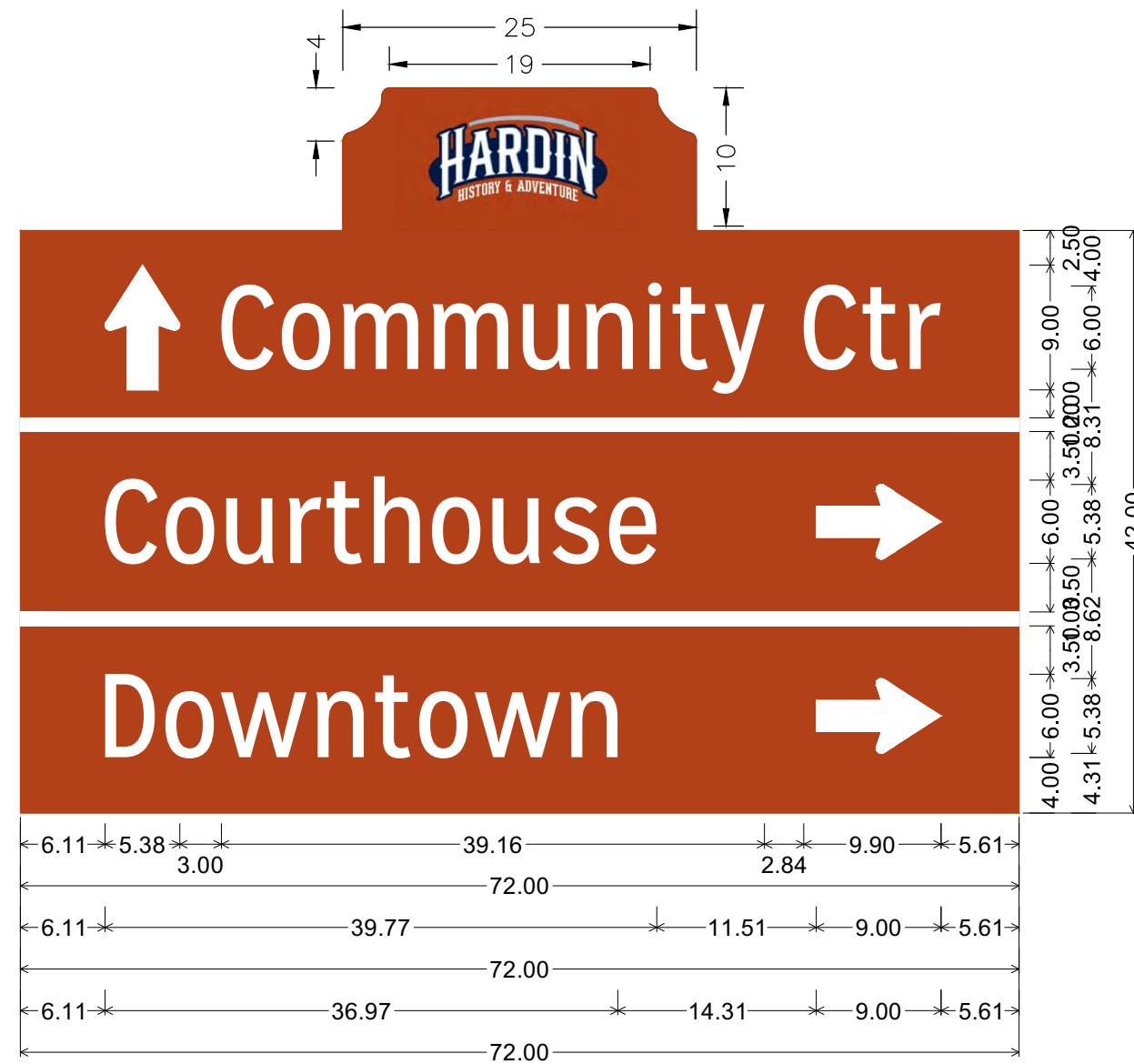
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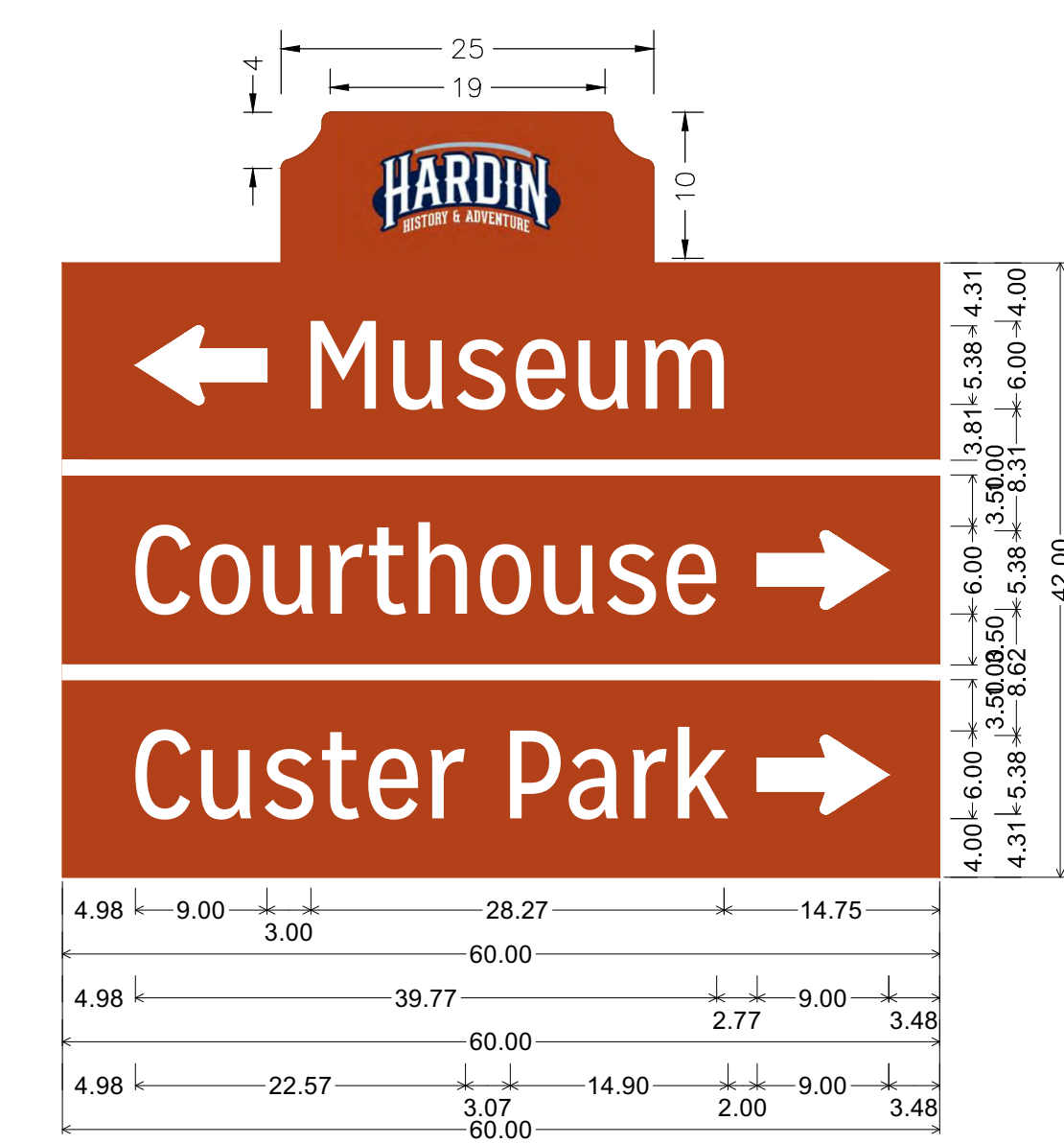
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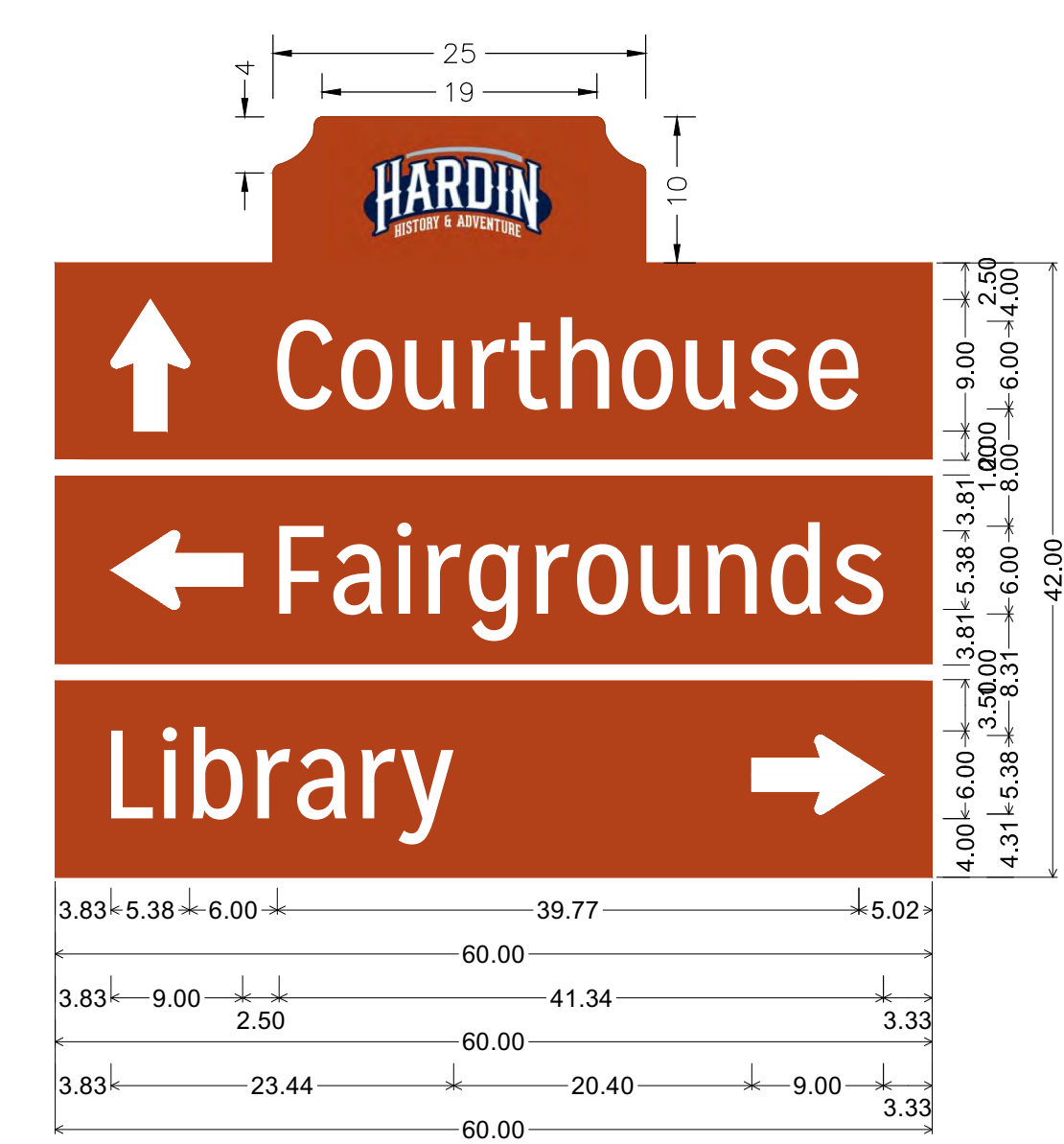
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1C-23



1C-12



1C-23

NOTES

- ALL SIGN DIMENSIONS ARE IN INCHES.
- THE DIMENSIONS OF THE TOP PLAQUE ON THE SIGN, AS SHOWN ON 1B-18, ARE THE SAME FOR ALL SIGNS.

HARDIN WAYFINDING SIGNAGE

HARDIN, MT

SIGN KEY & SPECIFICATIONS

REVISIONS

DESCRIPTION

DATE

No.



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25001021

File Name:
25001021-SIGN_PLAN.dwg

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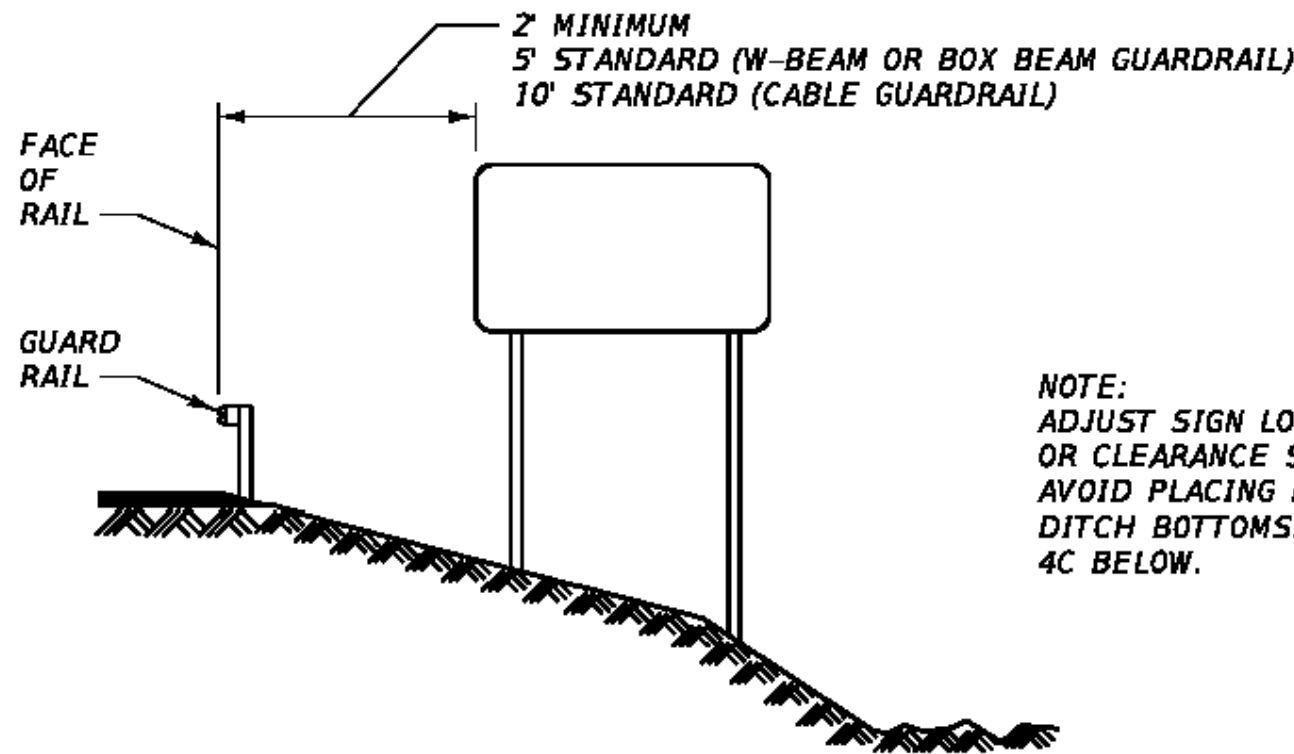
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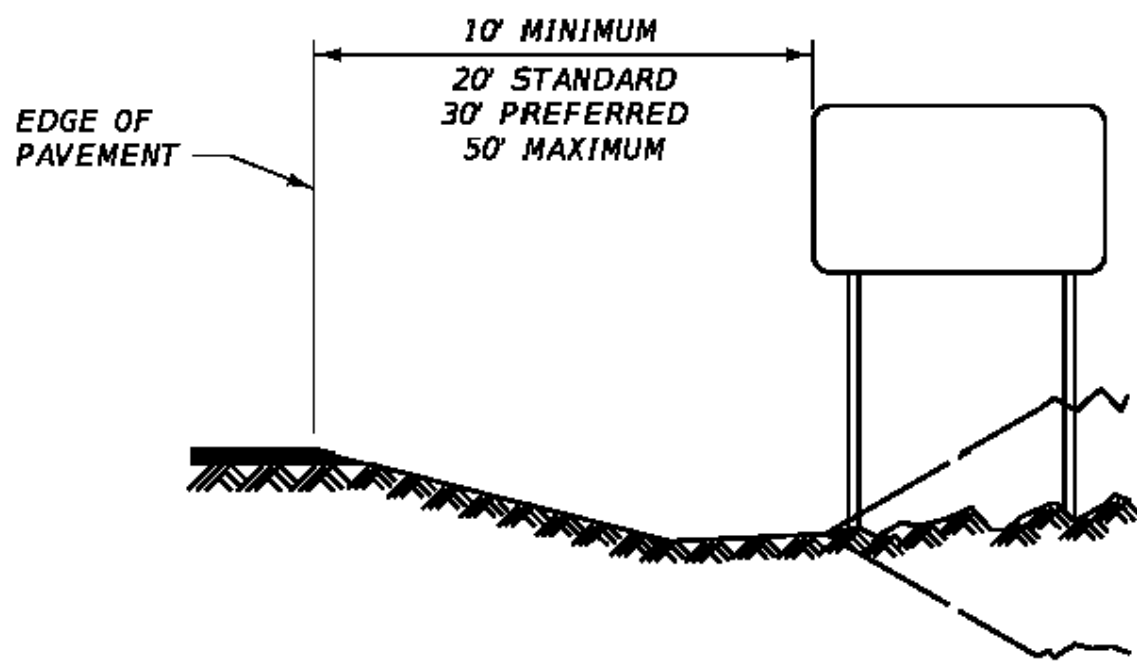
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GUIDE SIGNS



NOTES:

1. PLACE ALL SIGNS AT THE CLEARANCE AND MOUNTING HEIGHTS SHOWN.
2. FOR REGULATORY, WARNING AND ROUTE MARKER SIGNS, AND THEIR ASSEMBLIES, ON HIGHWAYS OTHER THAN INTERSTATE:
A) USE DIAGRAMS LOCATED IN COLUMN ① WHEN PLACING THESE SIGNS IN STANDARD RURAL CONDITIONS. USE COLUMN ② WHEN PLACING THESE SIGNS BEHIND GUARDRAIL IN RURAL CONDITIONS. USE COLUMN ③ WHEN PLACING THESE SIGNS IN URBAN CONDITIONS WHERE THERE IS ADEQUATE CLEARANCE AND SIDEWALK WIDTH.
B) WHERE SIDEWALK WIDTH IS LIMITED IN URBAN CONDITIONS, SEE DTL. DWG. NO. 619-18 FOR PLACEMENT DETAILS.
3. FOR REGULATORY (ALL OTHER), WARNING AND ROUTE MARKER SIGNS, AND THEIR ASSEMBLIES, ON INTERSTATE HIGHWAYS:
THE CLEARANCE IS 20' FROM THE EDGE OF PAVEMENT IN COLUMN ① FOR STANDARD RURAL CONDITIONS. THE CLEARANCES LISTED IN COLUMNS ② AND ③ REMAIN AS SHOWN.
4. FOR GUIDE SIGNS AND THEIR ASSEMBLIES:
A) USE THE DIAGRAMS LOCATED ABOVE WHEN PLACING THESE SIGNS IN THE GIVEN RURAL CONDITIONS.



- B) FOR PLACEMENT OF THESE SIGNS IN URBAN CONDITIONS, SEE THE SIGN LOCATION AND SPECIFICATION SHEETS IN THE SIGNING PLANS FOR EACH INDIVIDUAL SIGN.
C) THE MAXIMUM CLEARANCE OF THESE SIGNS IS 50' IN ANY CONDITION.
D) SEE DTL. DWG. NO. 619-08 FOR MOUNTING HEIGHTS.

5. WITHIN THE CITY LIMITS OR IN A SIDEWALK AND CURB AREA, MOUNT SIGNS TO HAVE THE PROPER CLEARANCES, BUT AVOID ANY CONFLICT BETWEEN THE POST AND THE MAIN WALKING AREA OF THE SIDEWALK, OR WITH DOORWAYS OR WINDOWS OF ADJACENT BUILDINGS. THE EXACT LOCATION OF THESE SIGN INSTALLATIONS WILL BE DETERMINED BY THE PROJECT MANAGER. SEE DTL. DWG. NO. 619-18 FOR VARIOUS CANTILEVER TYPE MOUNTINGS.
6. EVALUATE SIGNS WITHIN CLEAR ZONES (TABLES BELOW) FOR SUPPORT BREAKAWAY REQUIREMENTS (CONTACT MOT TRAFFIC SECTION FOR CRITERIA).
7. USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

CLEAR ZONE DISTANCES (IN FEET FROM EDGE OF DRIVING LANE)

DESIGN SPEED	DESIGN ADT	FILL SLOPES			CUT SLOPES		
		6:1 OR FLATTER	5:1 TO 4:1	3:1	3:1	4:1 TO 5:1	6:1 OR FLATTER
40 MPH OR LESS	UNDER 750	7-10	7-10	**	7-10	7-10	7-10
	750-1499	10-12	12-14	**	10-12	10-12	10-12
	1500-6000	12-14	14-16	**	12-14	12-14	12-14
	OVER 6000	14-16	16-18	**	14-16	14-16	14-16
45-50 MPH	UNDER 750	10-12	12-14	**	8-10	8-10	10-12
	750-1499	12-14	16-20	**	10-12	12-14	14-16
	1500-6000	16-18	20-26	**	12-14	14-16	16-18
	OVER 6000	18-20	24-28	**	14-16	18-20	20-22
55 MPH	UNDER 750	12-14	14-18	**	8-10	10-12	10-12
	750-1499	16-18	20-24	**	10-12	14-16	16-18
	1500-6000	20-22	24-30	**	14-16	16-18	20-22
	OVER 6000	22-24	26-32 *	**	16-18	20-22	22-24
60 MPH	UNDER 750	16-18	20-24	**	10-12	12-14	14-16
	750-1499	20-24	26-32 *	**	12-14	16-18	20-22
	1500-6000	26-30	32-40 *	**	14-18	18-22	24-26
	OVER 6000	30-32 *	36-44 *	**	20-22	24-26	26-28
65-70 MPH	UNDER 750	18-20	20-26	**	10-12	14-16	14-16
	750-1499	24-26	28-36 *	**	12-16	18-20	20-22
	1500-6000	28-32 *	34-42 *	**	16-20	22-24	26-28
	OVER 6000	30-34 *	38-46 *	**	22-24	26-30	28-30

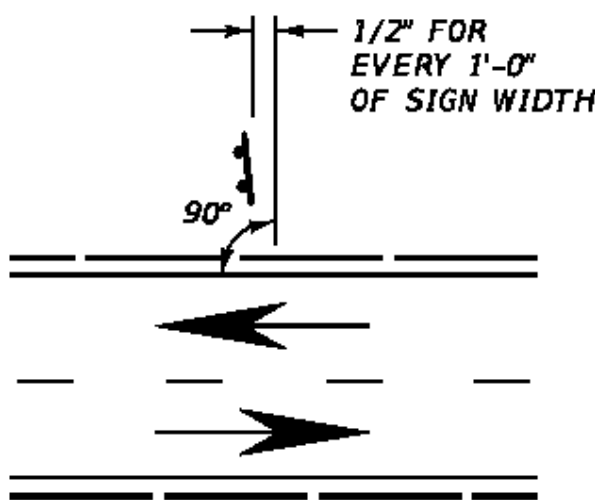
* WHEN AN INVESTIGATION OR ACCIDENT HISTORY INDICATES A HIGH PROBABILITY OF ACCIDENTS, CLEAR ZONE DISTANCES GREATER THAN 30' MAY BE PROVIDED AS INDICATED. CLEAR ZONES MAY ALSO BE LIMITED TO 30' TO PROVIDE A CONSISTENT ROADWAY TEMPLATE WHEN EXPERIENCE WITH PREVIOUS SIMILAR PROJECTS INDICATES SATISFACTORY PERFORMANCE.

** FIXED OBJECTS, INCLUDING SIGN POSTS, SHOULD NOT BE ALLOWED IN THE VICINITY OF THE TOE OF THESE SLOPES. SEE AASHTO ROADSIDE DESIGN GUIDE FOR ADDITIONAL CONSIDERATIONS IN LOCATING SIGNS.

HORIZONTAL CURVE ADJUSTMENTS (APPLICABLE ON OUTSIDE OF CURVE ONLY)

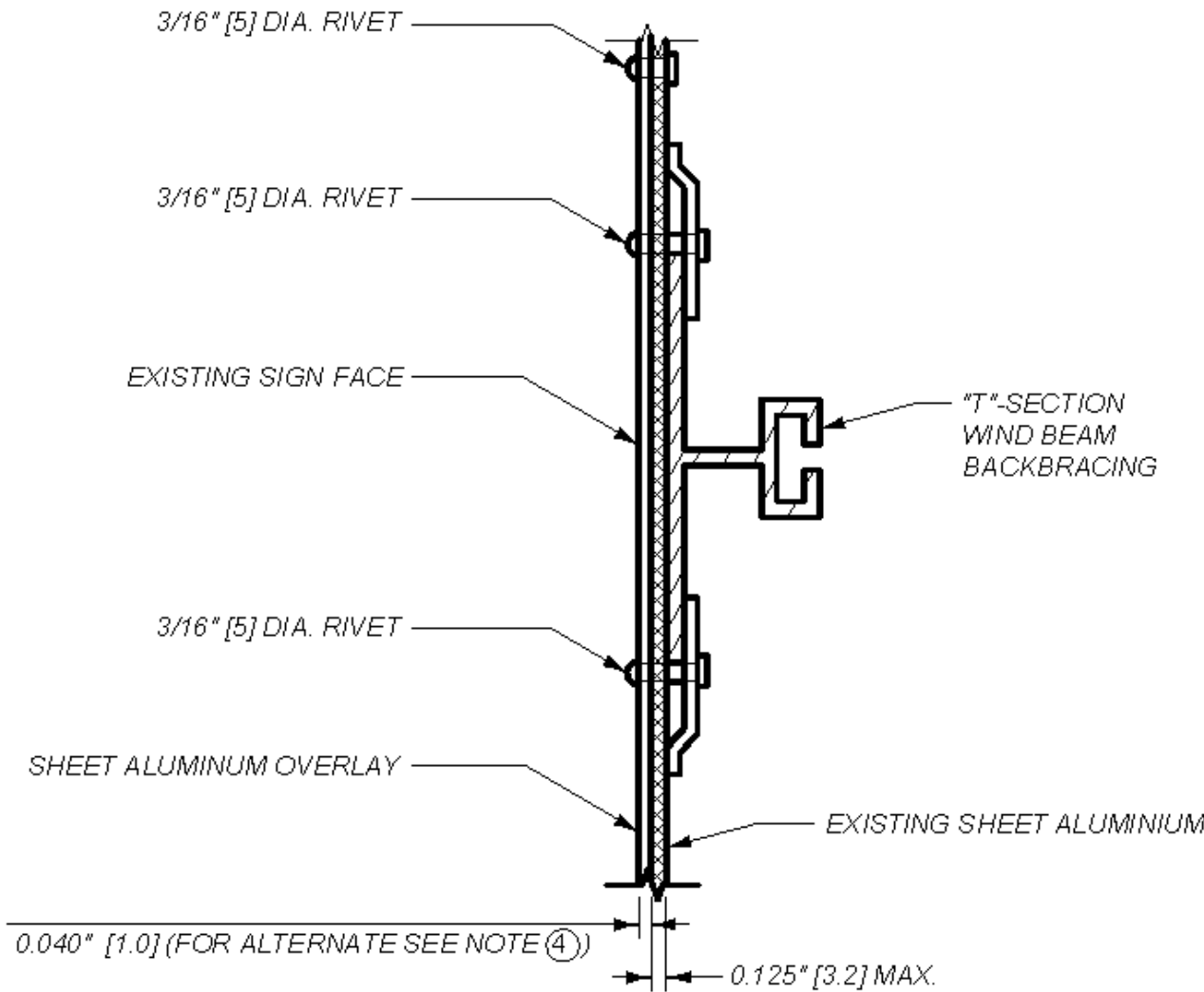
RADIUS (FT)	DESIGN SPEED (MPH)						
	40	45	50	55	60	65	70
2860	1.1	1.1	1.1	1.2	1.2	1.2	1.3
2290	1.1	1.1	1.2	1.2	1.2	1.3	1.3
1910	1.1	1.2	1.2	1.2	1.3	1.3	1.4
1640	1.1	1.2	1.2	1.3	1.3	1.4	1.5
1430	1.2	1.2	1.3	1.3	1.4	1.4	
1270	1.2	1.2	1.3	1.3	1.4	1.5	
1150	1.2	1.2	1.3	1.4	1.5		
950	1.2	1.3	1.4	1.5	1.5		
820	1.3	1.3	1.4	1.5			
720	1.3	1.4	1.5				
640	1.3	1.4	1.5				
570	1.4	1.5					
380	1.5						

TO AVOID GLARE, SKEW SIGN AWAY FROM ROADWAY AT THE ANGLE SHOWN WHEN SIGN IS < 30' FROM SHOULDER. SKEW SIGN TOWARDS ROADWAY AT THE SAME ANGLE IF SIGN IS > 30' FROM SHOULDER.

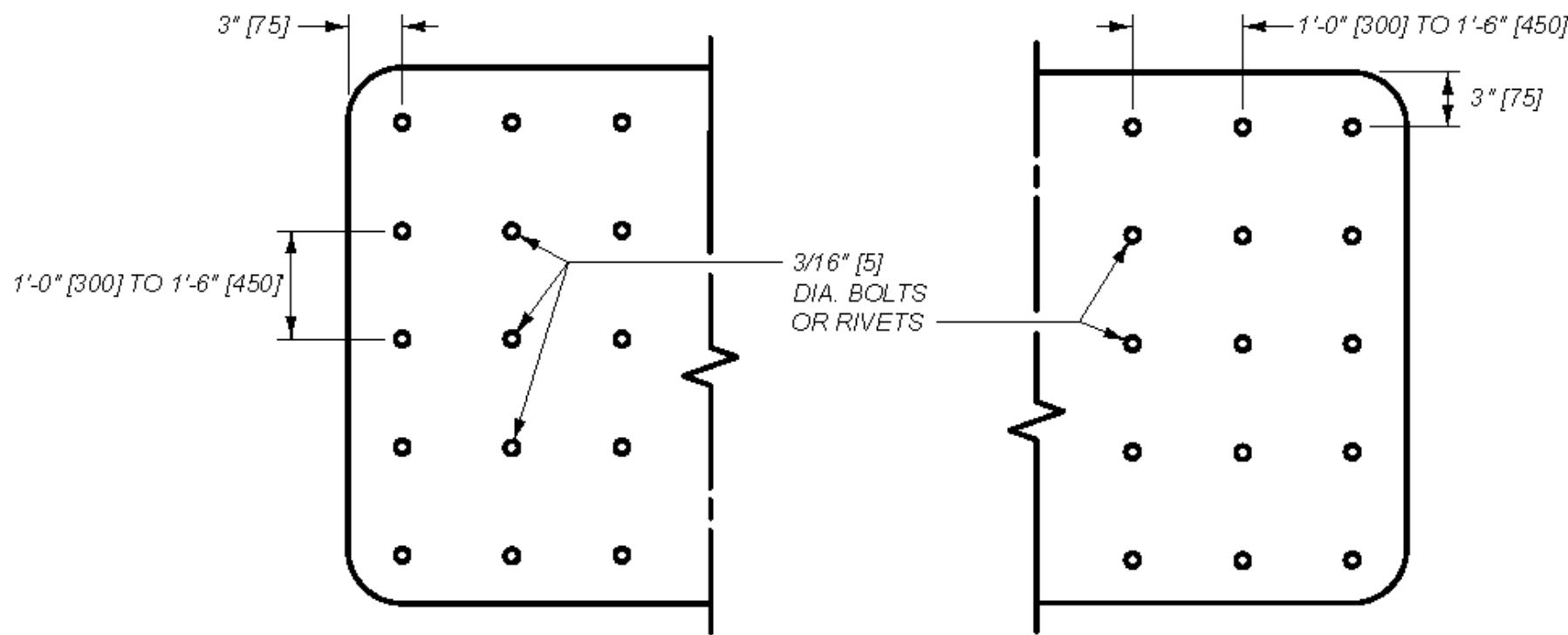


SKEW DIAGRAM

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 619, 704	DWG. NO. 619-00
SIGN CLEARANCES AND MOUNTING HEIGHTS	
MDT MONTANA DEPARTMENT OF TRANSPORTATION	



EXISTING ALUMINUM SIGNS



NOTES:

- ① REMOVE ALL RAISED LETTERS, NUMERALS, SYMBOLS, BORDERS AND PREVIOUS SIGN OVERLAYS TO BE REPLACED, AND CLEAN SIGN FACE TO A SMOOTH SURFACE BEFORE OVERLAYING.
- ② ALL LETTERS, NUMERALS, SYMBOLS AND BORDERS ARE TYPE "C" CUTOUT UNLESS OTHERWISE SPECIFIED, AND APPLIED TO THE BACKGROUND SHEETING PRIOR TO FIELD APPLICATION OF THE SIGN.
- ③ THE SIZE OF ALL GUIDE SIGN OVERLAYS AND LEGENDS MUST BE VERIFIED BY THE PROJECT MANAGER PRIOR TO FABRICATION.
- ④ AN ADHESIVE-BACKED SHEETING MAY BE USED AS AN ALTERNATIVE ON SIGN WIDTHS OF 8'-0" [1800] OR LESS IF IT IS PREFABRICATED TO A MINIMUM THICKNESS OF 0.005" [0.13] AND CONSTRUCTED OF PREAPPLIED REFLECTIVE SHEETING ON ADHESIVE-BACKED ALUMINUM. APPLY ADHESIVE-BACKED OVERLAY SHEETING WHEN AIR AND SURFACE TEMPERATURES ARE ABOVE 50°F (10°C). DO NOT USE THIS TYPE OF OVERLAY MATERIAL ON OVERHEAD SIGNS.
- ⑤ PROVIDE A MINIMUM REFLECTIVE SHEETING INTENSITY OF TYPE 4, MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE.
- ⑥ APPLY ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

FASTENER PATTERN

- ⑦ USE ALUMINUM ALLOY TYPE 6061-T8 OR AA5052-H38. CONVERSION COAT ALL ALUMINUM WITH A PROCESS SUCH AS ALODINE 1200 (OR EQUAL), AND RINSE AND DRY THOROUGHLY. PROTECT IT FROM SOIL BY ACCEPTABLE METHODS.
- ⑧ SIGN OVERLAYS MAY REQUIRE REMOVAL OF THE SIGN FROM THE POSTS TO AVOID PROJECTING BOLT HEADS. DO NOT LEAVE WARNING AND REGULATORY SIGNS TO BE OVERLAYED UNDISPLAYED FOR MORE THAN ONE (1) HOUR DURING DAYLIGHT. DO NOT LEAVE GUIDE SIGNS UNDISPLAYED FOR MORE THAN TEN (10) HOURS DURING DAYLIGHT. INSURE SIGNS TO BE OVERLAYED ARE OPERATIONAL PRIOR TO DARKNESS.
- ⑨ OVERLAY SIGNS SMALLER THAN 4'-0" x 6'-0" [1200 x 1800] WITH ONE PANEL OF MATERIAL. FOR SEAMS IN LARGE OVERLAYS, USE RIVETS OR BOLTS SPACED AS SHOWN ON THIS DRAWING AND PLACE PARALLEL TO AND NO MORE THAN 3" [75] Laterally FROM THE SEAM.
- ⑩ USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

DETAILED DRAWINGS

REFERENCE STANDARD SPEC. SECTION 619, 704	DWG. NO. 619-10
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SHEET ALUMINUM OVERLAY

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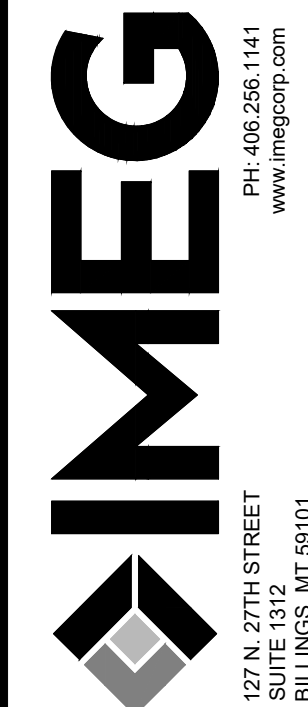
—REVISED—
JUN 27, 2024
JUN 26, 2025

REVISIONS

No.

DESCRIPTION

DATE



HARDIN WAYFINDING SIGNAGE

HARDIN, MT

CLEARANCE MOUNTING HEIGHTS
& SHEET ALUMINUM OVERLAY

IMEG Project No:
25001021

File Name:
25001021-SIGN_PLAN.dwg

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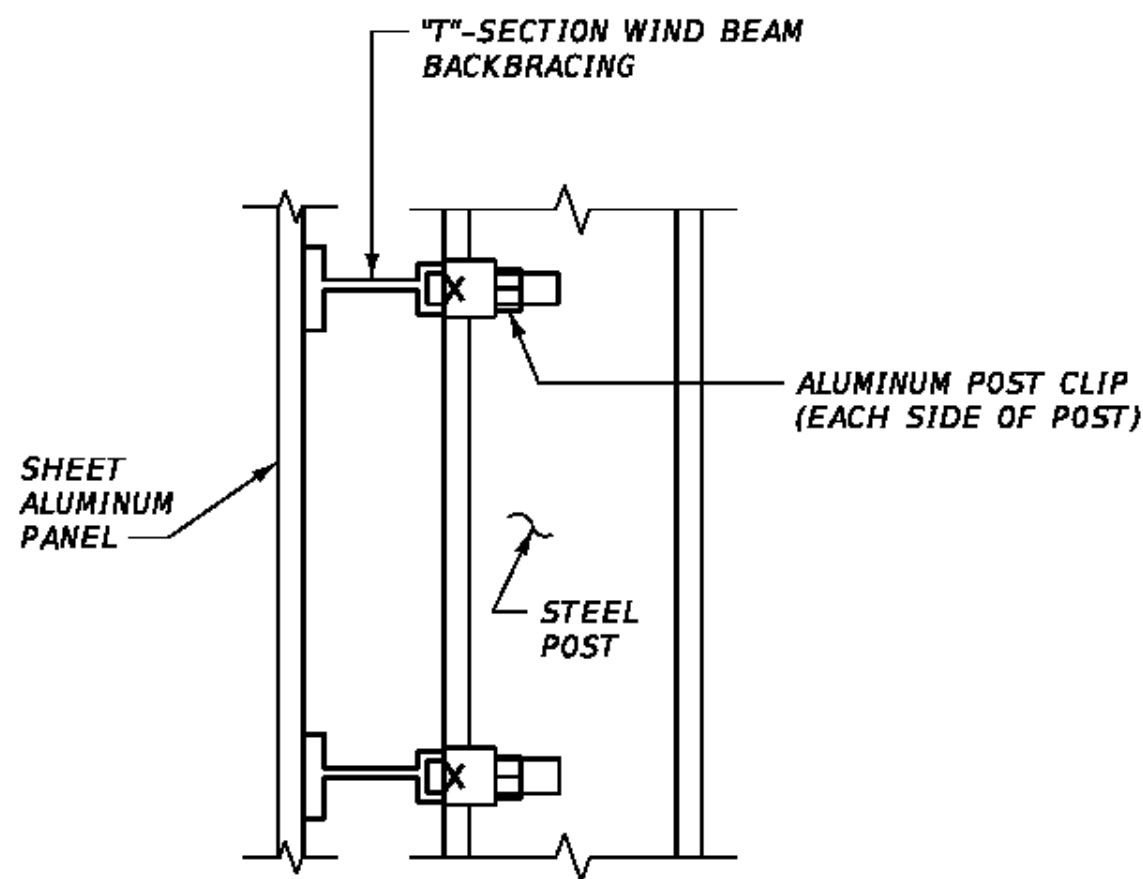
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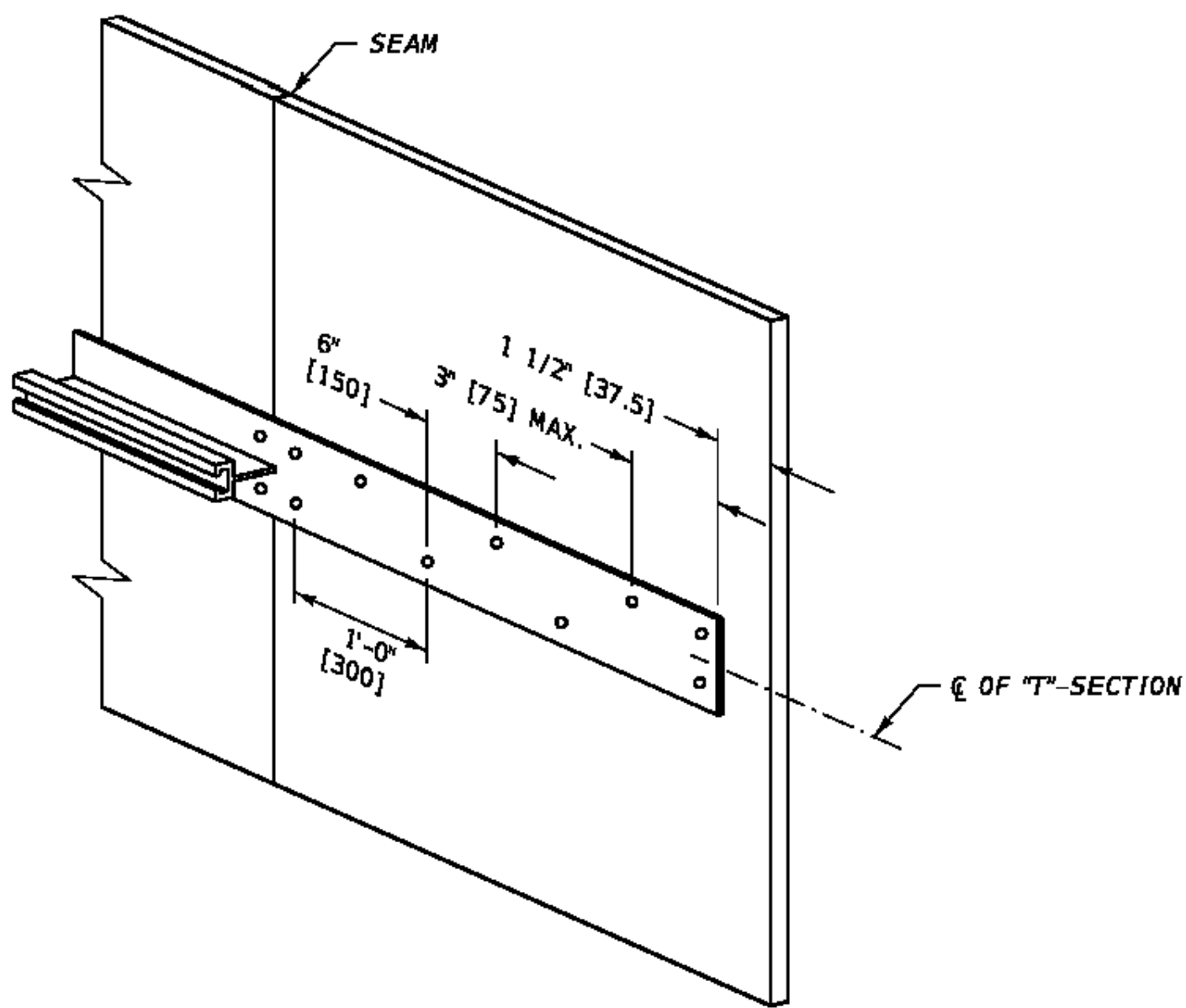
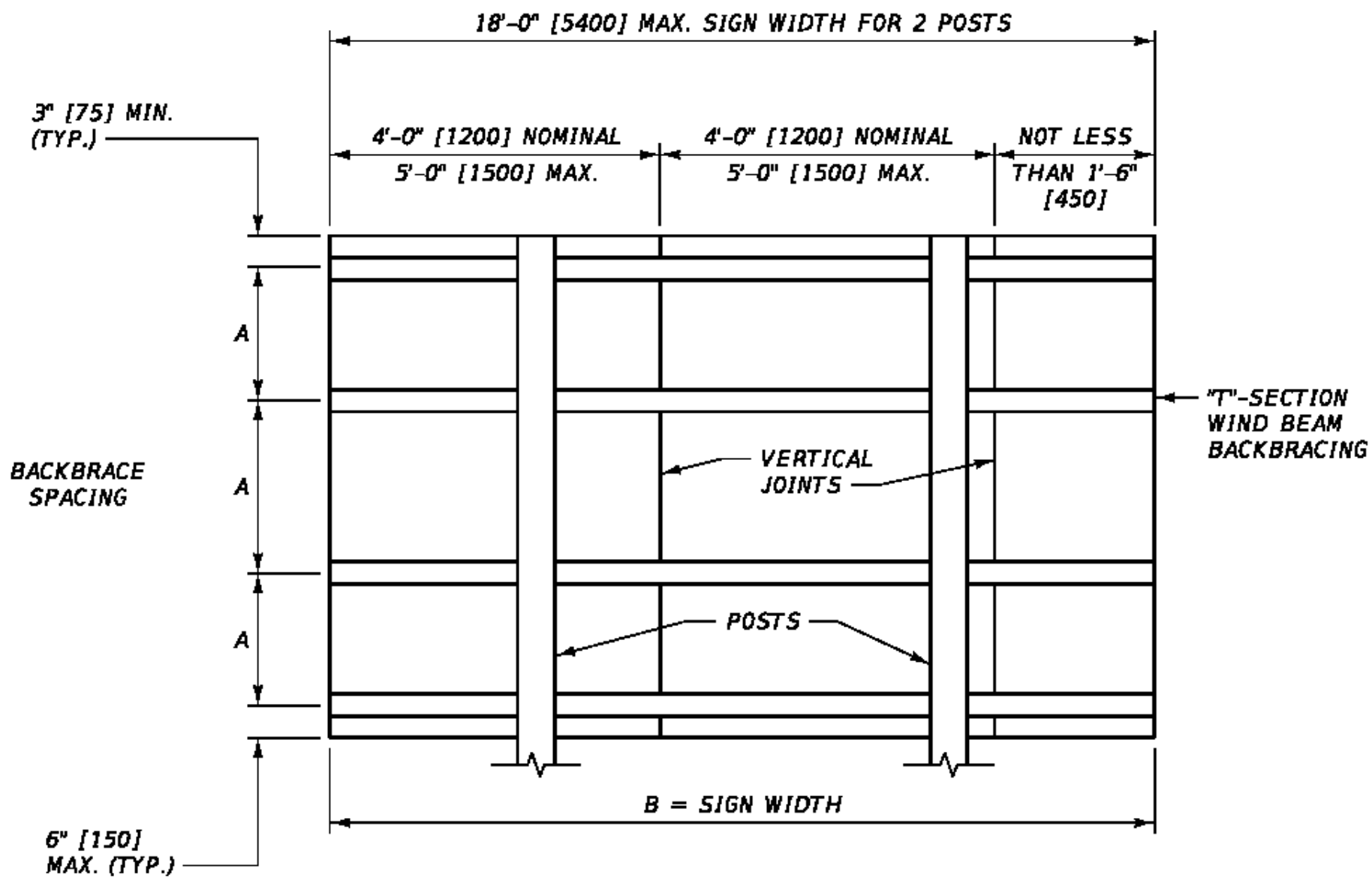
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BACKBRACE DETAIL

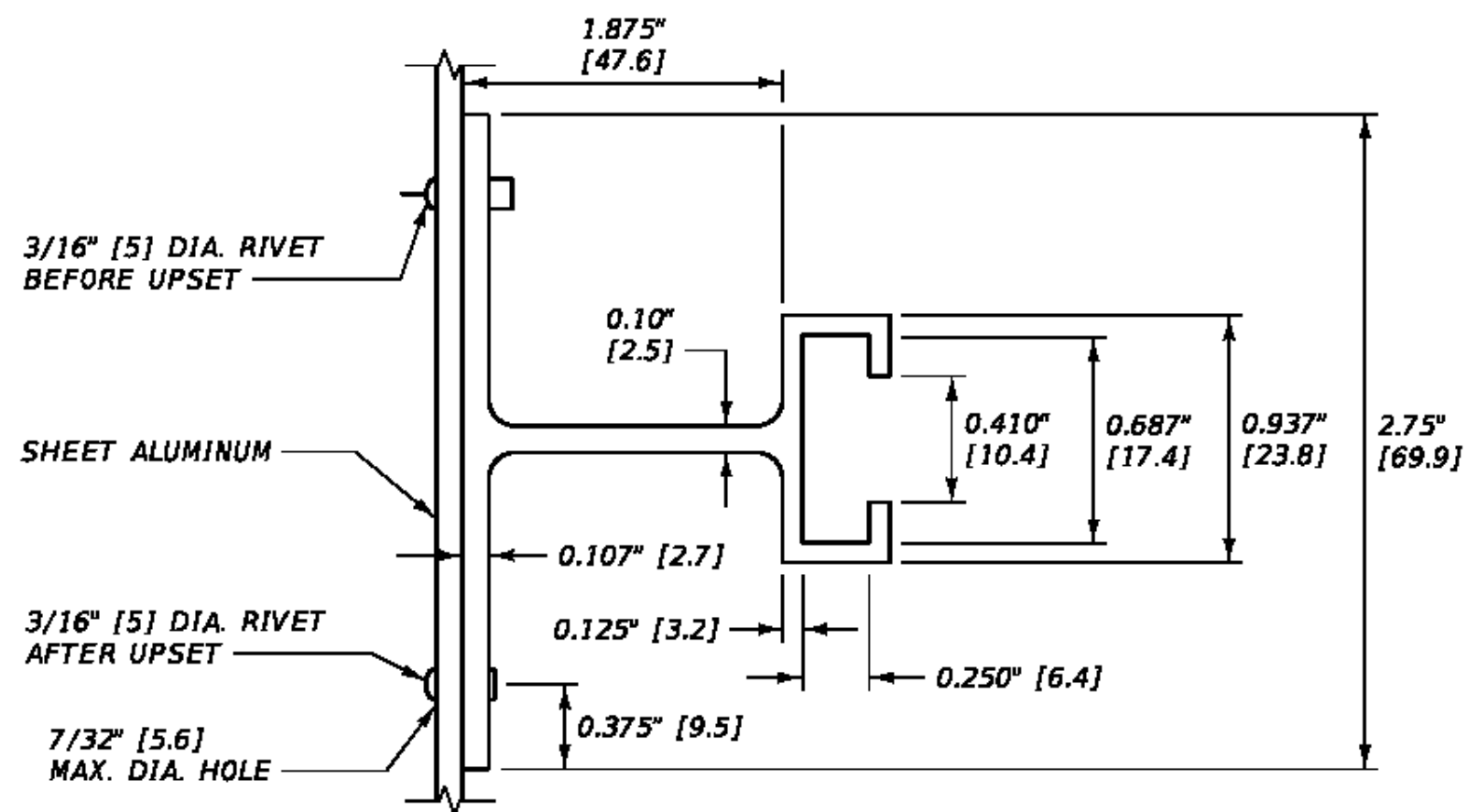


RIVET SPACING DETAIL

LOCATE RIVETS AT 6" [150] ALTERNATE CENTERS ON HORIZONTAL EXTRUDED "T"-SECTION.

DOUBLE RIVETS (TOP AND BOTTOM OR LEFT AND RIGHT OF EXTRUDED "T"-SECTION) AT HORIZONTAL AND VERTICAL JOINTS IN SHEET ALUMINUM FACE AND AT ENDS OF EXTRUDED "T"-SECTION.

COLOR RIVET HEADS TO MATCH ADJACENT SHEETING.



EXTRUDED "T"-SECTION BACKBRACE

BACKBRACING TABLE - ALUMINUM SIGNS		
MAXIMUM BACKBRACE SPACING "A"	MAXIMUM WIDTH "B"	
	2 POST	3 POST
1'-8"	18'-0"	27'-0"
1'-10"	17'-0"	25'-8"
2'-0"	16'-6"	24'-8"
2'-6"	14'-9"	22'-0"
3'-0"	13'-6"	20'-0"
3'-6"	12'-6"	18'-6"

FOR ALUMINUM PLATE THICKNESS INFORMATION SEE SECTION 704.

METRIC BACKBRACING TABLE - ALUMINUM SIGNS		
MAXIMUM BACKBRACE SPACING "A" (mm)	MAXIMUM WIDTH "B" (mm)	
	2 POST	3 POST
500	5400	8100
550	5100	7700
600	4950	7400
750	4425	6600
900	4050	6000
1050	3750	5550

FOR ALUMINUM PLATE THICKNESS INFORMATION SEE SECTION 704.

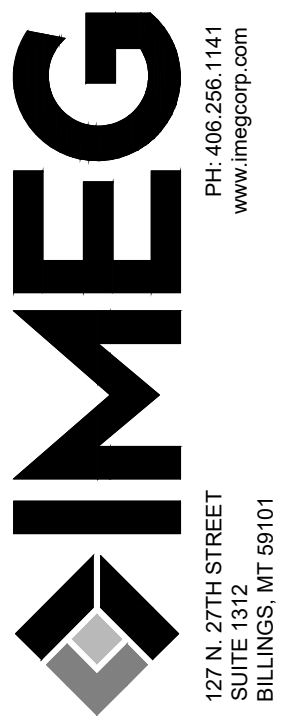
NOTES:

- 1 CONFORM ALL ALUMINUM SIGNS TO SECTIONS 619, AND 704.
- 2 FOR SIGNS 4'-0" [1200] HIGH BY 6'-0" [1800] LONG OR LESS USE A SINGLE SHEET OF ALUMINUM.
- 3 DO NOT USE HORIZONTAL JOINTS ON SIGNS 6'-0" [1800] IN HEIGHT AND SMALLER. THE MINIMUM SHEET WIDTH IS 1'-6" [450].
- 4 SIGNS OVER 6'-0" [1800] HIGH MAY HAVE HORIZONTAL AND VERTICAL JOINTS. THE MINIMUM SHEET SIZE IS 1'-6" [450] WIDE BY 1'-6" [450] HIGH.
- 5 CLEAN AND DRY POST CLIP NUTS, THEN TORQUE TO 225 INCH POUNDS [25.4 N·m].
- 6 LOCATE ALL HORIZONTAL JOINTS AT A "T"-SECTION.
- 7 NO SPLICES ARE ALLOWED IN EXTRUDED "T"-SECTIONS.
- 8 USE SCREWS, BOLTS AND LOCKWASHERS MEETING THE REQUIREMENTS OF SECTION 704.
- 9 USE ONLY ALUMINUM RIVETS.
- 10 THE MAXIMUM GAP BETWEEN INDIVIDUAL SIGN PANELS AT JOINTS IS 1/16" [1.6] AT ANY POINT.
- 11 THE PROJECT MANAGER MAY APPROVE ADDITIONAL METHODS TO PREVENT LIGHT LEAKAGE THROUGH SIGN PANEL SEAMS.

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 619.704	DWG. NO. 619-04
ALUMINUM SHEET INCREMENT SIGN CONSTRUCTION DETAILS	



REVISONS	DATE	
	DESCRIPTION	
No.		



HARDIN WAYFINDING SIGNAGE

HARDIN, MT

ALUMINUM SHEET INCREMENT SIGN

IMEG Project No: 25001021

File Name: 25001021-SIGN_PLAN.dwg

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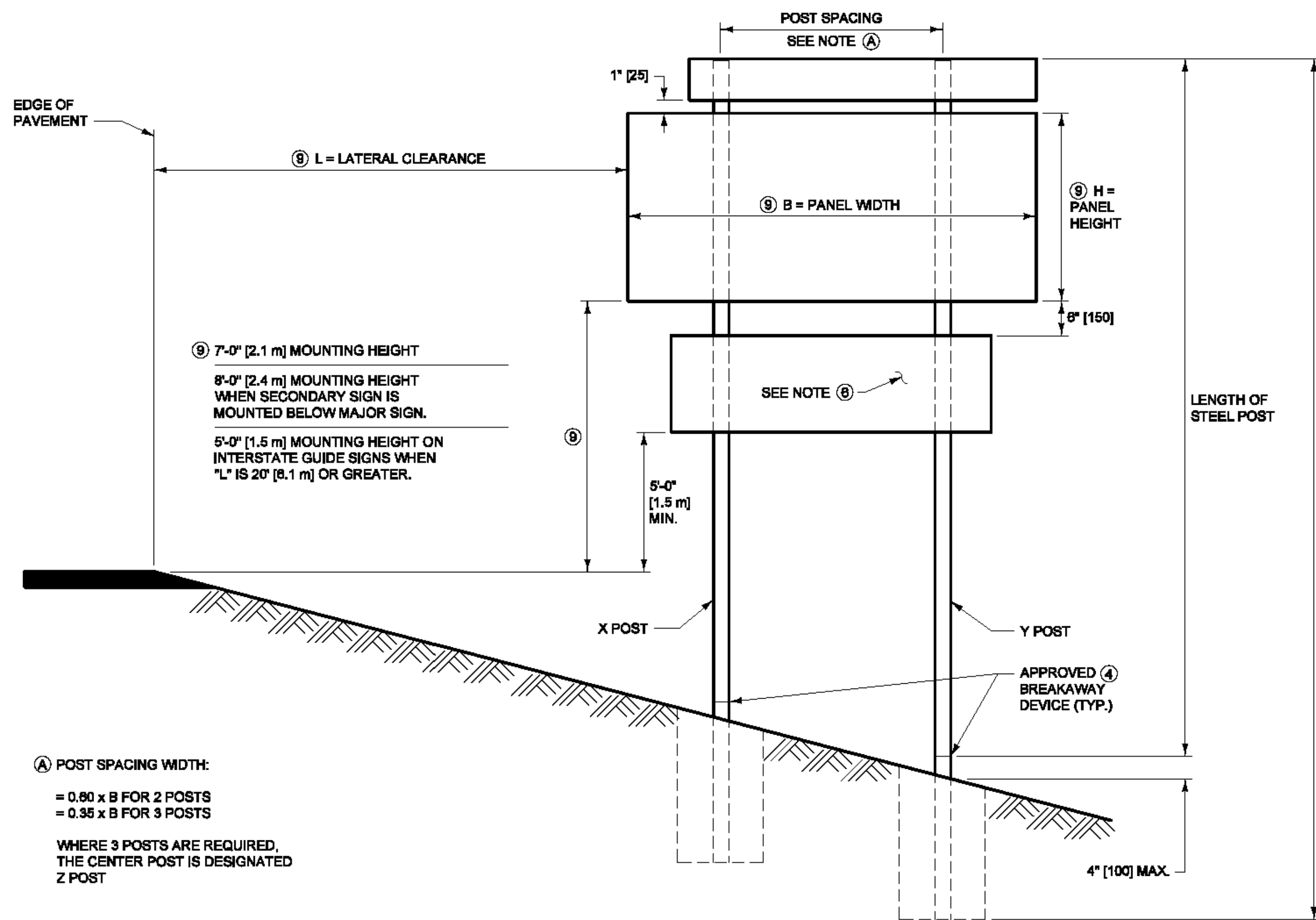
Date: 03/30/2026

SD-2

Sheet 13 of 18

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

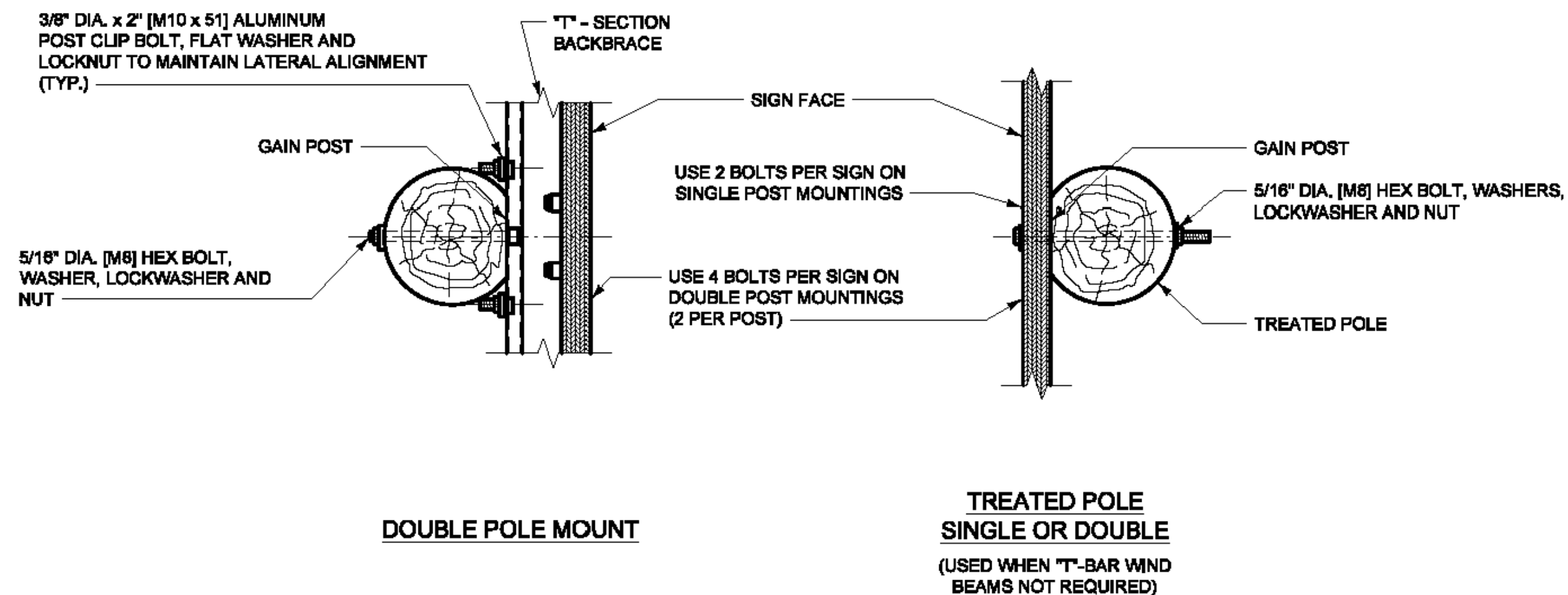
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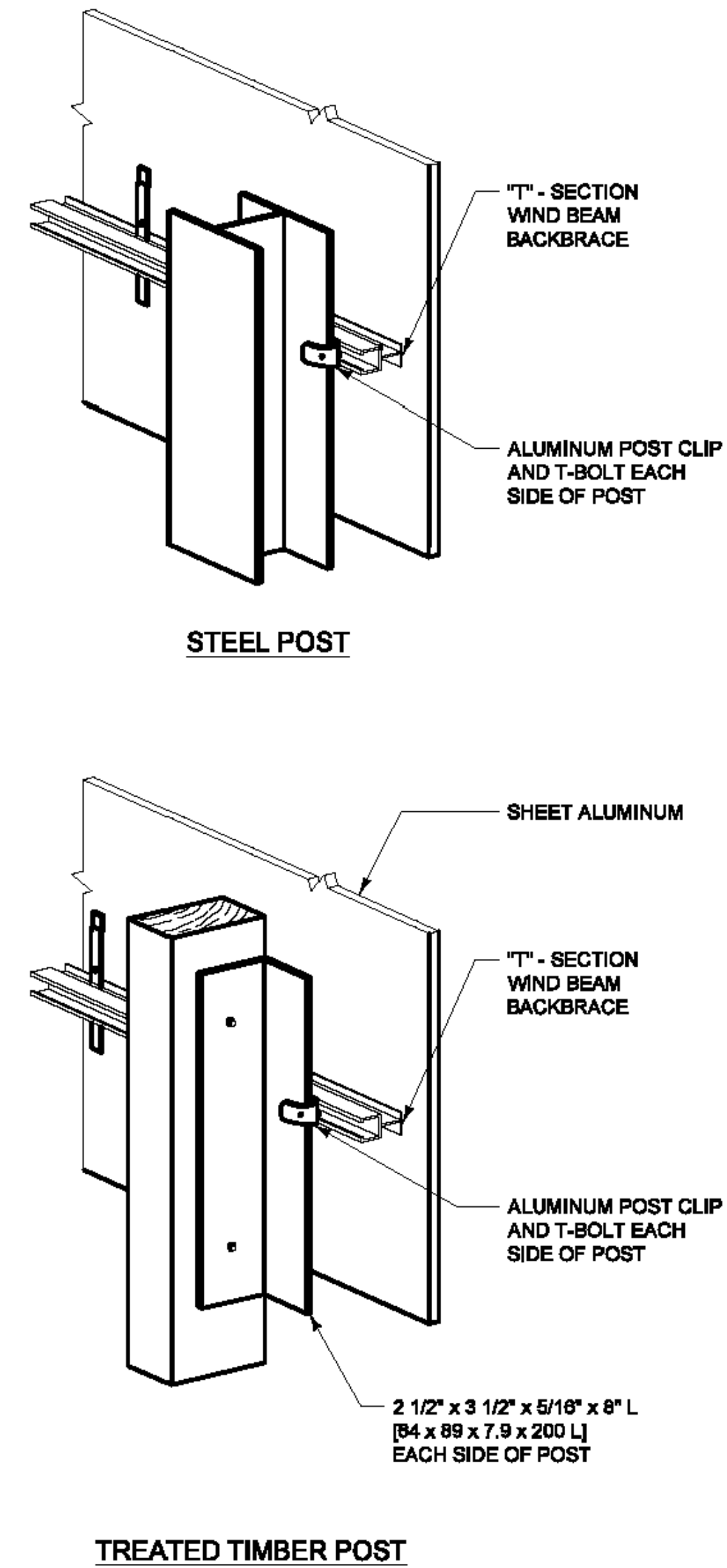
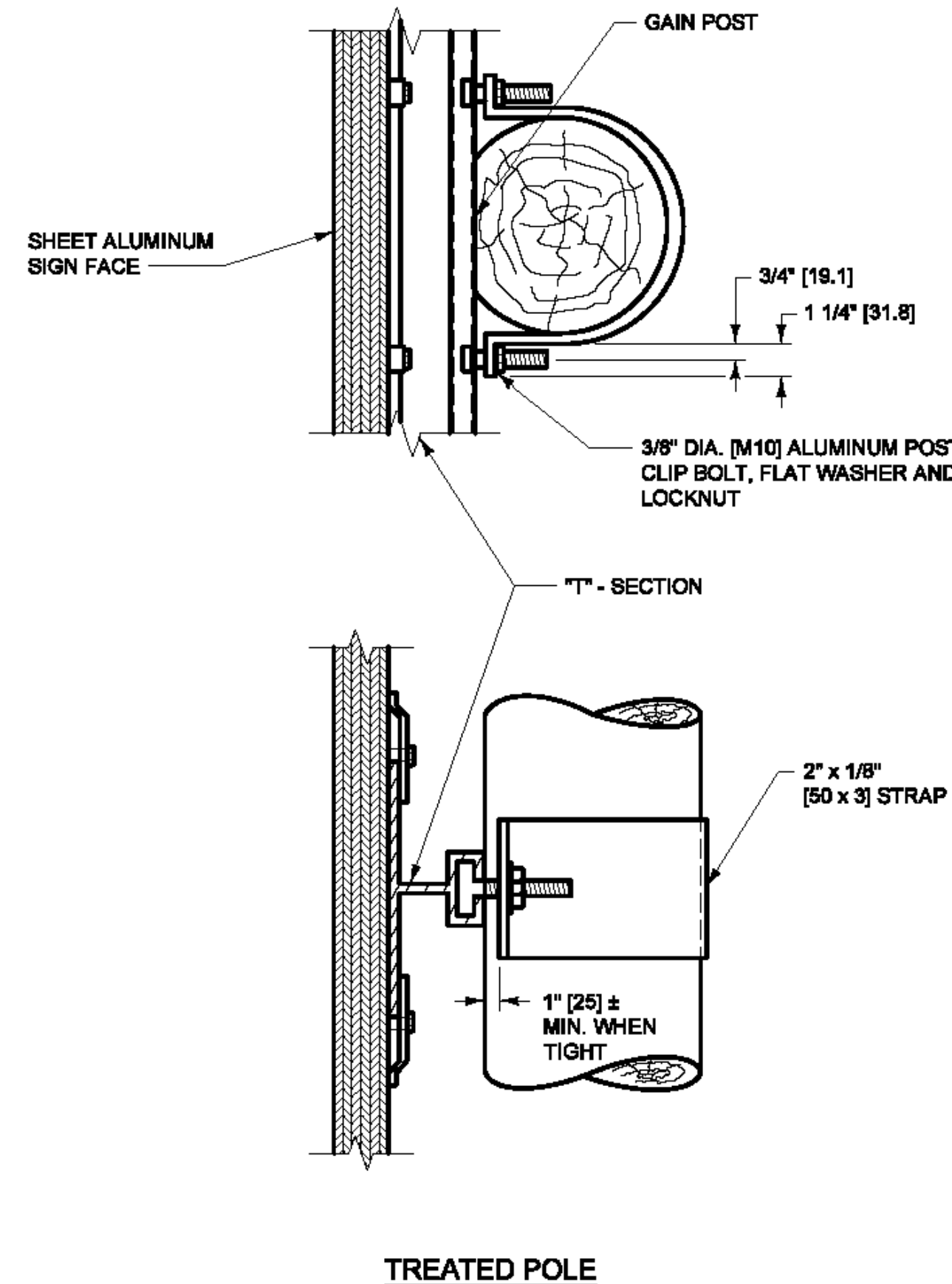
(A) POST SPACING WIDTH:
= $0.80 \times B$ FOR 2 POSTS
= $0.35 \times B$ FOR 3 POSTS
WHERE 3 POSTS ARE REQUIRED,
THE CENTER POST IS DESIGNATED
Z POST

NOTES:

- MOUNTING SYSTEMS SHOWN ARE TYPICAL. OTHER SYSTEMS MAY BE APPROVED BY THE PROJECT MANAGER.
- USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.
- GAIN THE TOP HALF OF WOOD POLES ACCORDING TO THE TABLE ON DTL. DWG. NO. 619-20.
- SEE THE SIGNING PLANS FOR THE TYPES OF POSTS AND FOUNDATIONS.
- MOUNT ONE-PANEL SIGNS DIRECTLY TO WOOD POLES OR POSTS, WHEN SPECIFIED IN THE PLANS, BY BOLTING THROUGH THE SIGN PLATE AND THE POLE AS REQUIRED BY THE DETAILED DRAWINGS, SPECIFICATIONS AND DESIGN. USE "T"-SECTION WIND BEAMS WHEN REQUIRED BY DTL. DWG. NO. 619-06.
- SUSPEND LARGE SUPPLEMENTAL SIGNS, ADDED AFTER INITIAL SIGN INSTALLATION, FROM MAJOR SIGN PANEL OR BACKBRACING. ATTACHMENT TO MULTIPLE POSTS/POLES IS NOT ALLOWED.
- USE POST SPACING, POST SIZE AND BREAKAWAY DEVICES SPECIFIED IN THE PLANS AND IN THE SPECIFICATIONS. FOR INFORMATION REGARDING APPROPRIATE BREAKAWAY DEVICES FOR NEW INSTALLATIONS NOT SUPPORTED BY THE PLANS, CONTACT THE TRAFFIC UNIT.
- IN LOCATING SIGNS, AVOID PLACING POSTS IN DITCH BOTTOMS WHERE THEY WOULD IMPEDE DRAINAGE.
- DIMENSIONS ARE SPECIFIED IN THE SIGNING PLANS.



MOUNTING DETAILS

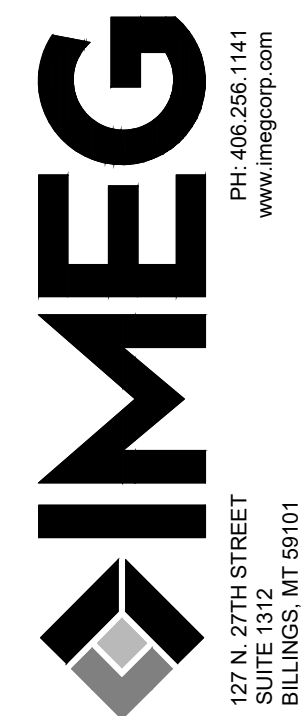


UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWINGS	
REFERENCE STANDARD SPEC. SECTION 619, 704	DWG. NO. 619-08
GUIDE SIGN CLEARANCE AND MOUNTING DETAILS	
EFFECTIVE: JAN 23, 2020	
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-REVISED-
JUN 27, 2024

REVISIONS		DATE
DESCRIPTION	No.	



HARDIN WAYFINDING SIGNAGE
HARDIN, MT
GUIDE SIGN CLEARANCE AND MOUNTING

IMEG Project No:
25001021
File Name:
25001021-SIGN_PLAN.dwg
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Drawn By: BP
Checked By: BP
Date: 03/30/2026

SD-3

Sheet 14 of 18

ALL BOLTS ARE ASTM A 325 [325M].



1. ASSEMBLE POST TO STUB WITH BOLTS AND ONE FLAT WASHER BETWEEN PLATES.
2. SHIM AS REQUIRED TO PLUMB POST.
3. TIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE BELOW).
4. LOOSEN EACH BOLT AND RETIGHTEN TO PRESCRIBED TORQUE IN THE SAME ORDER AS ORIGINAL TIGHTENING. DO NOT OVERTIGHTEN.
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

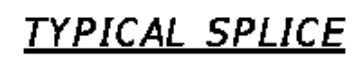


FURNISH TWO 0.012" [0.3] ± THICK AND TWO 0.032" [0.8] ± THICK SHIMS PER POST. USE SHIMS FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B 36 [36M].

TYP. $\frac{1}{4}$ " (6 mm)



FOR DETAILS OF MOUNTING
ANGLES SEE DETAILED DRAWING
NUMBER 619-16 AND BELOW.



BACKING STRIP THICKNESS = T OR
5/16" [B] MAX. LOCATE SPLICE
IN TOP ONE-HALF OF POST.

Metric Base Connection Data											Metric Foundation	
Nominal Pipe Dia.	Bolt Size	Bolt Torque	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	T (mm)	Z (mm)	Footing Diameter	Footing Depth
75 mm	M12 x 63	27 N•m	114.3	190.5	25.4	63.5	19.05	152.4	19	8	0.45 m	0.9 m
89 mm 102 mm	M12 x 63	27 N•m	139.7	215.9	25.4	88.9	19.05	177.8	19	8	0.45 m	0.9 m
127 mm	M16 x 83	54 N•m	165.1	247.66	31.75	101.6	22.23	203.2	25	10	0.45 m	1.2 m
152 mm	M20 x 89	88 N•m	190.5	285.75	31.75	127.0	25.4	234.95	25	10	0.45 m	1.4 m

NOMINAL PIPE DIA. (mm)	NOMINAL WEIGHT (kg/m) OF PIPE	WEIGHT OF BASE PLATE & STUB POST (kg)
75	11.28	12.71
89	13.56	16.26
102	16.06	17.44
127	21.76	27.90
152	28.23	36.99

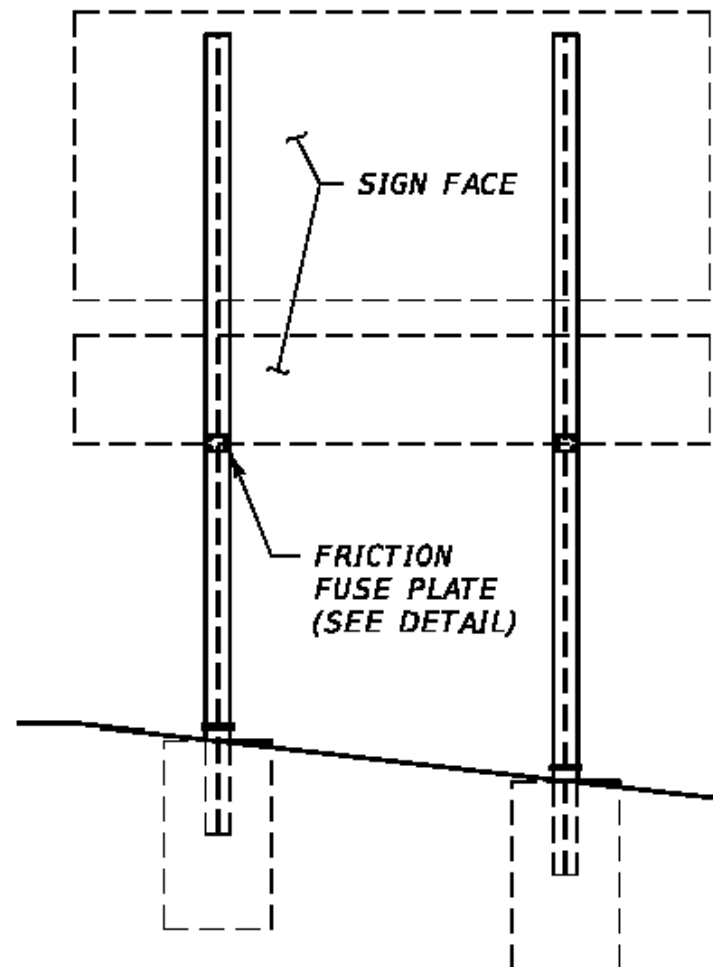
⑧ USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING	
REFERENCE	DWG. NO.
STANDARD SPEC.	619-12
SECTION 556.619.704.711	
TUBULAR SIGN POST DETAILS	


**MONTANA DEPARTMENT
OF TRANSPORTATION**

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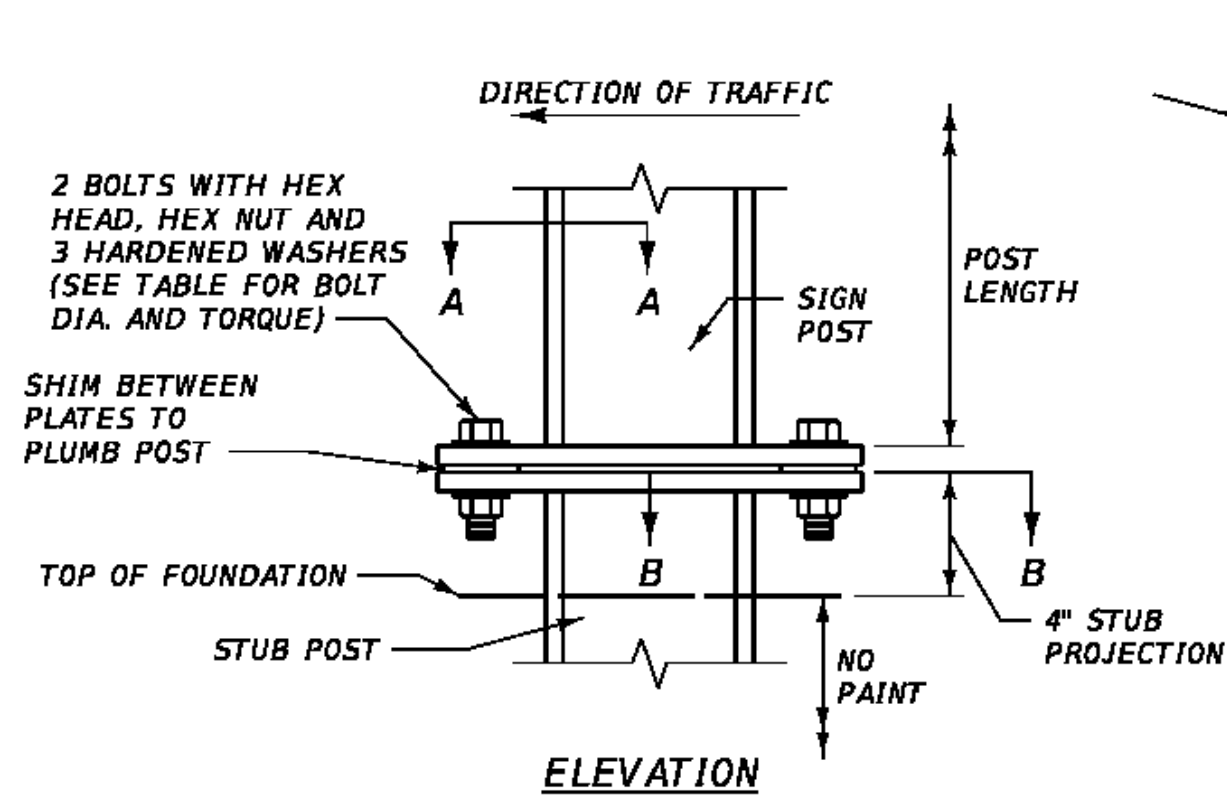
TYPICAL SIGN ELEVATION

PROCEDURE FOR BASE CONNECTION ASSEMBLY

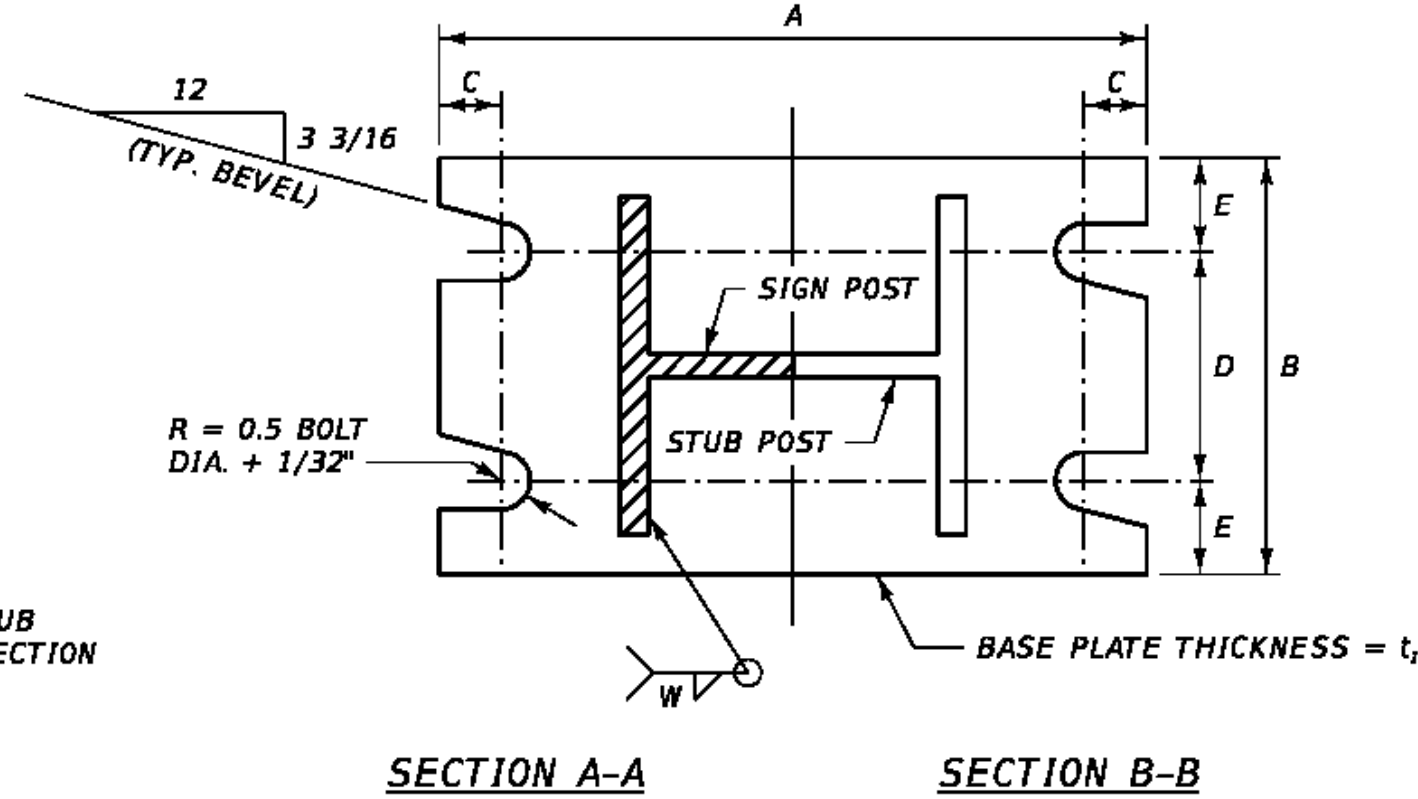
1. ASSEMBLE POST TO STUB WITH BOLTS AND ONE FLAT WASHER BETWEEN PLATES.
2. SHIM AS REQUIRED TO PLUMB POST.
3. TIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE).

4. LOOSEN EACH BOLT AND RETIGHTEN TO PRESCRIBED TORQUE IN THE SAME ORDER AS ORIGINAL TIGHTENING. **DO NOT OVERTIGHTEN.**
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
ALL BOLTS MUST BE ASTM A 325 AND BE TIGHTENED BY USE OF A DIRECT TENSION INDICATING DEVICE (LOAD INDICATING WASHER) IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.



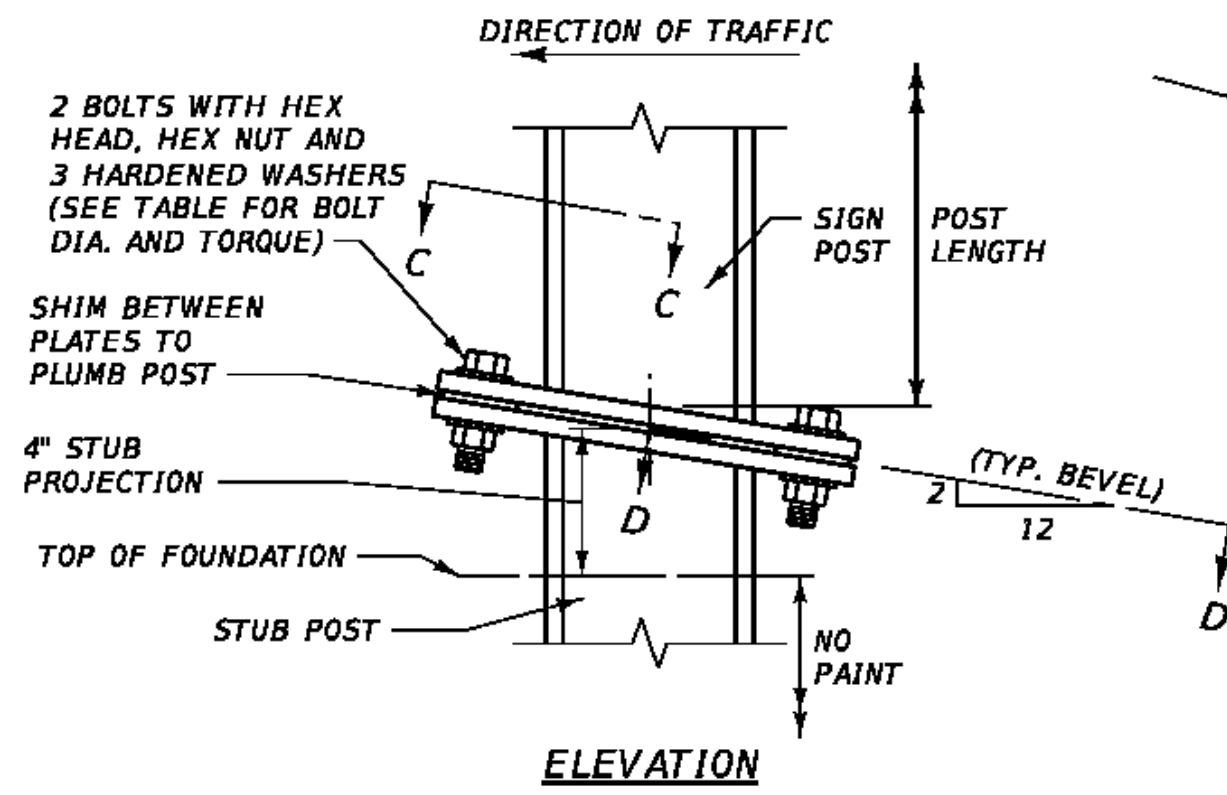
ELEVATION



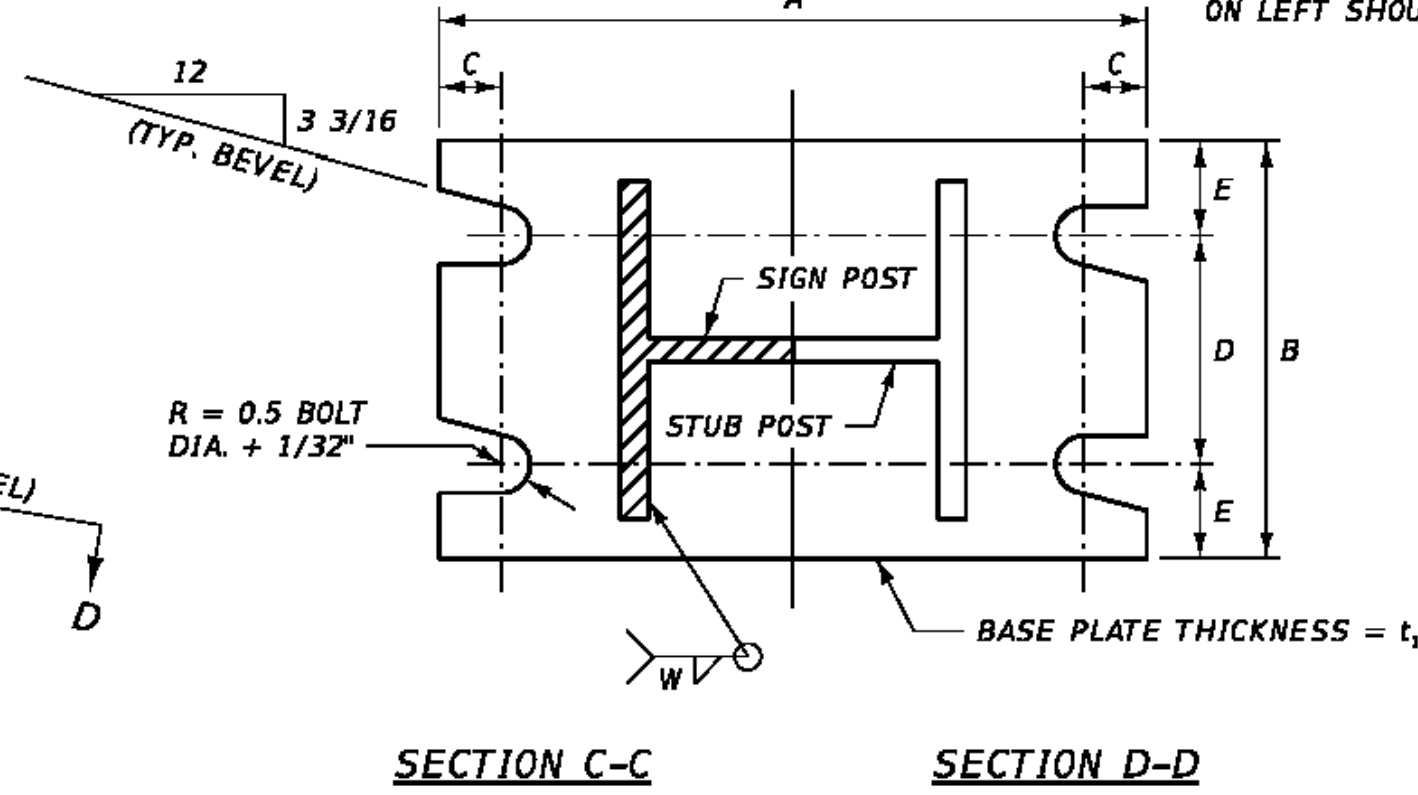
SECTION A-A

SECTION B-B

SIGN POST AND STUB POST DETAIL "A"



ELEVATION



SECTION C-C

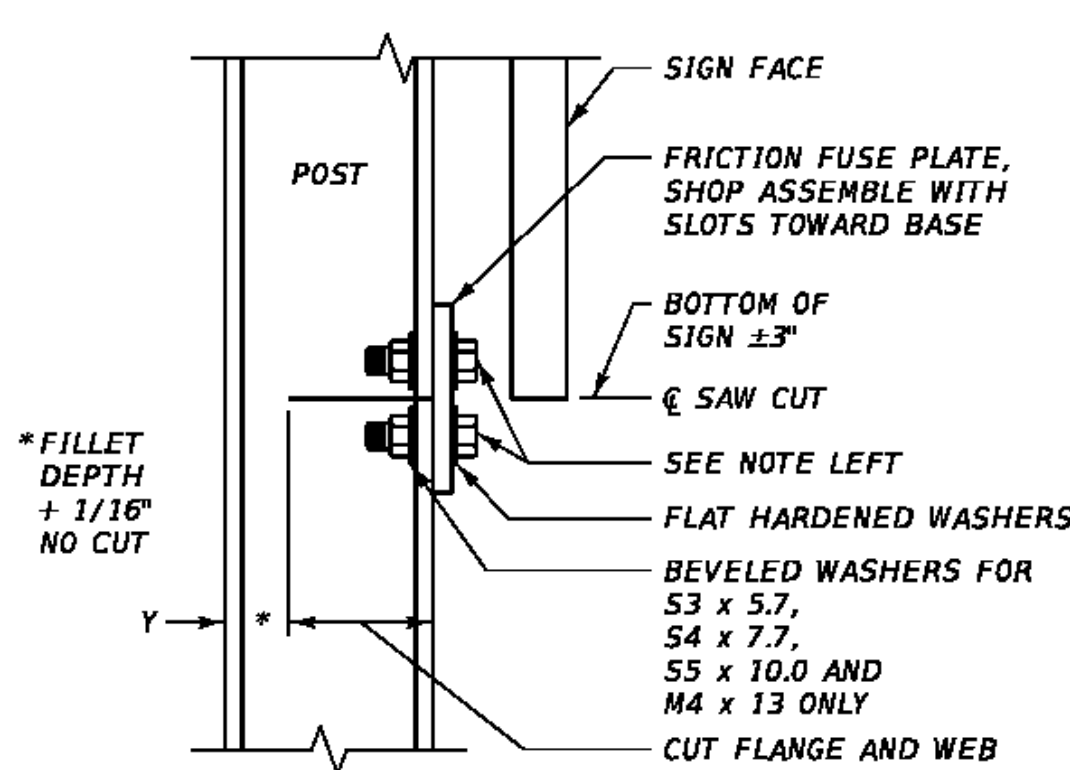
SECTION D-D

SIGN POST AND STUB POST DETAIL "B"

USE ONLY WITH SINGLE POST SIGNS

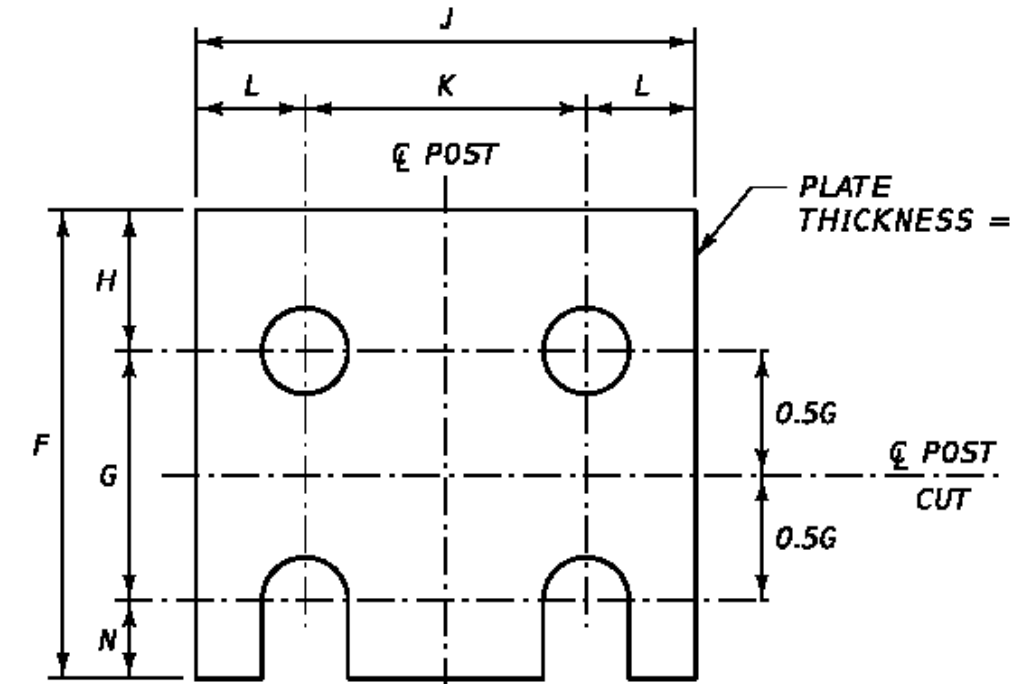
NOTE:
SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER AND IN GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATIONS ON LEFT SHOULDER.

BASE CONNECTION DATA											FUSE PLATE DATA											FOUNDATION DATA				
POST SIZE	BOLT SIZE	BOLT TORQUE	DIMENSIONS							BASE PLATES (LB.)	DIMENSIONS									BOLT DIA.	FUSE DEVICE (LB.)	FTG. DEPTH	STUB LENGTH	FTG. DIA.	BAR C SIZE	STUB POST (LB.)
			A	B	C	D	E	t ₁	W		F	G	H	J	K	L	N	t ₂	Y							
W4 x 13 M4 x 13	5/8" DIA. x 2 3/4"	40 FT. LB.	8 1/2"	5"	3/4"	2 3/4"	1 1/8"	3/4"	5/16"	21.58	3 3/4"	2"	1 1/8"	4"	2 1/4"	7/8"	5/8"	3/8"	13/16"	5/8"	1.60	3'-6"	2'-0"	1'-6"	#5	26.00
W8 x 18			12 1/2"	6 1/4"	3/4"	4"	1 1/8"	3/4"	5/16"	37.00	4 1/2"	2 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	3/4"	1/2"	7/8"	3/4"	3.27	5'-6"	2'-6"	2'-0"	#7	45.00
W8 x 24	3/4" DIA. x 3 1/2"	65 FT. LB.	13"	7 1/2"	3/4"	5"	1 1/4"	1"	5/16"	60.86	4 3/4"	2 1/2"	1 1/2"	6"	3 1/2"	1 1/4"	3/4"	9/16"	15/16"	3/4"	4.66	7'-0"	3'-0"	2'-0"	#9	72.00
W12 x 30			17"	7 1/2"	7/8"	5"	1 1/4"	1"	5/16"	78.54	5 3/8"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	7/8"	9/16"	1 3/16"	7/8"	5.42	8'-0"	3'-0"	2'-6"	#9	90.00
S3 x 5.7	1/2" DIA. x 2 1/2"	20 FT. LB.	8"	3"	3/4"	1 1/2"	3/4"	5/8"	1/4"	10.37	3 1/8"	1 1/2"	1 1/8"	2 5/8"	1 1/2"	9/16"	1/2"	1/4"	11/16"	1/2"	0.64	3'-6"	1'-6"	1'-6"	#4	8.55
S4 x 7.7			8"	3"	3/4"	1 1/2"	3/4"	5/8"	1/4"	10.45	3 1/8"	1 1/2"	1 1/8"	2 5/8"	1 1/2"	9/16"	1/2"	1/4"	13/16"	1/2"	0.64	3'-6"	1'-6"	1'-6"	#4	11.55
S5 x 10.0	5/8" DIA. x 2 3/4"	40 FT. LB.	9 1/2"	4"	3/4"	2"	1"	3/4"	1/4"	19.08	3 1/8"	1 1/2"	1 1/8"	3"	1 7/8"	9/16"	1/2"	1/4"	13/16"	1/2"	0.66	3'-6"	1'-6"	1'-6"	#5	15.00



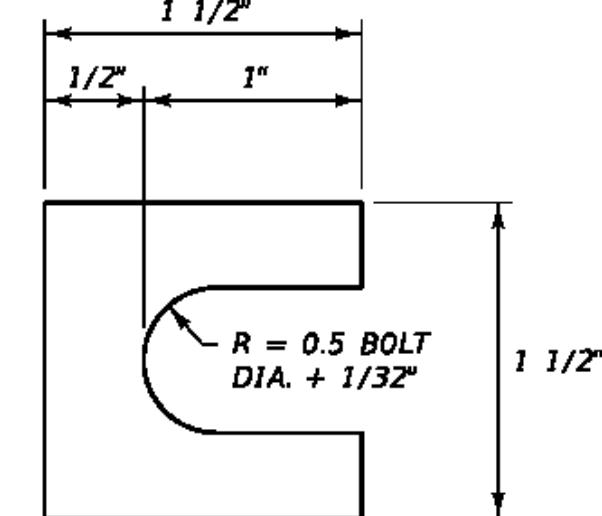
FRICITION FUSE PLATE DETAIL

DO NOT USE ON SINGLE POST SIGNS. NOT NECESSARY WHEN SIGN IS MOUNTED BEHIND GUARDRAIL OR BARRIER RAIL.



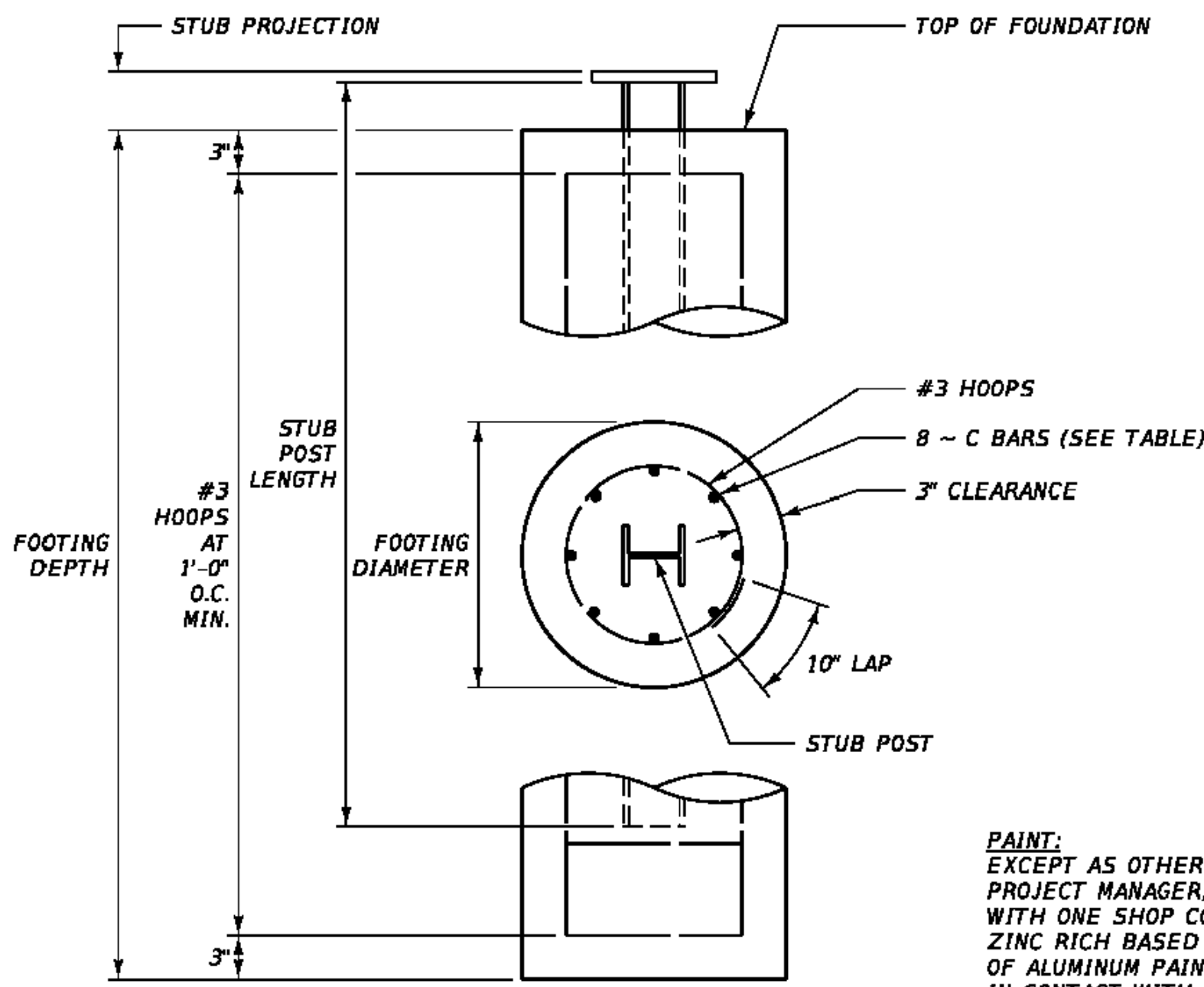
HOLE DIAMETER = BOLT DIA. + 1/16"

FRICITION FUSE PLATE DETAIL



SHIM DETAIL

FURNISH TWO 0.012" ± THICK AND TWO 0.032" ± THICK SHIMS PER POST. USE SHIMS FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO ASTM B 36.



FOUNDATION DETAIL

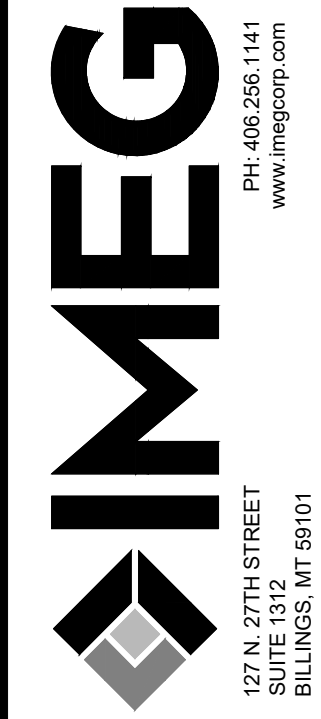
NOTES:

- ① USE CLASS GENERAL CONCRETE WITH A SMOOTH FINISH ON TOP. FORM TOP 12 INCHES OF FOUNDATION.
- ② SEE THE STANDARD SPECIFICATIONS FOR REQUIREMENTS GOVERNING STRUCTURAL STEELS AND THEIR FABRICATIONS. TO AVOID OVERSIGHT, NOTE THESE REQUIREMENTS ON THE SHOP DRAWINGS.
- ③ SUBMIT SHOP PLANS FOR APPROVAL BEFORE FABRICATION BEGINS.
- ④ FOR GUIDE SIGN PLACEMENT AND DETAILS, SEE SIGNING DTL. DWG. NO. 619-08.
- ⑤ FRANGIBLE BOLT BREAKAWAY SYSTEMS LISTED ON THE DEPARTMENT'S QUALIFIED PRODUCTS LIST ARE ALLOWED TO BE USED IN PLACE OF THE DESIGN SHOWN HERE AS AN EQUAL OPTION (PER PROJECT MANAGER'S APPROVAL).
- ⑥ USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

PAINT:
EXCEPT AS OTHERWISE APPROVED BY THE PROJECT MANAGER, PAINT STRUCTURAL STEEL WITH ONE SHOP COAT AND ONE FIELD COAT OF ZINC RICH BASED PAINT AND ONE FIELD COAT OF ALUMINUM PAINT ON ALL SURFACES NOT IN CONTACT WITH CONCRETE.

DETAILED DRAWING	
REFERENCE	DWG. NO.
STANDARD SPEC.	619-13
SECTION 619, 704	
STRUCTURAL STEEL SIGN POST DETAILS	
MDT MONTANA DEPARTMENT OF TRANSPORTATION	

REVISIONS		DATE
No.	DESCRIPTION	

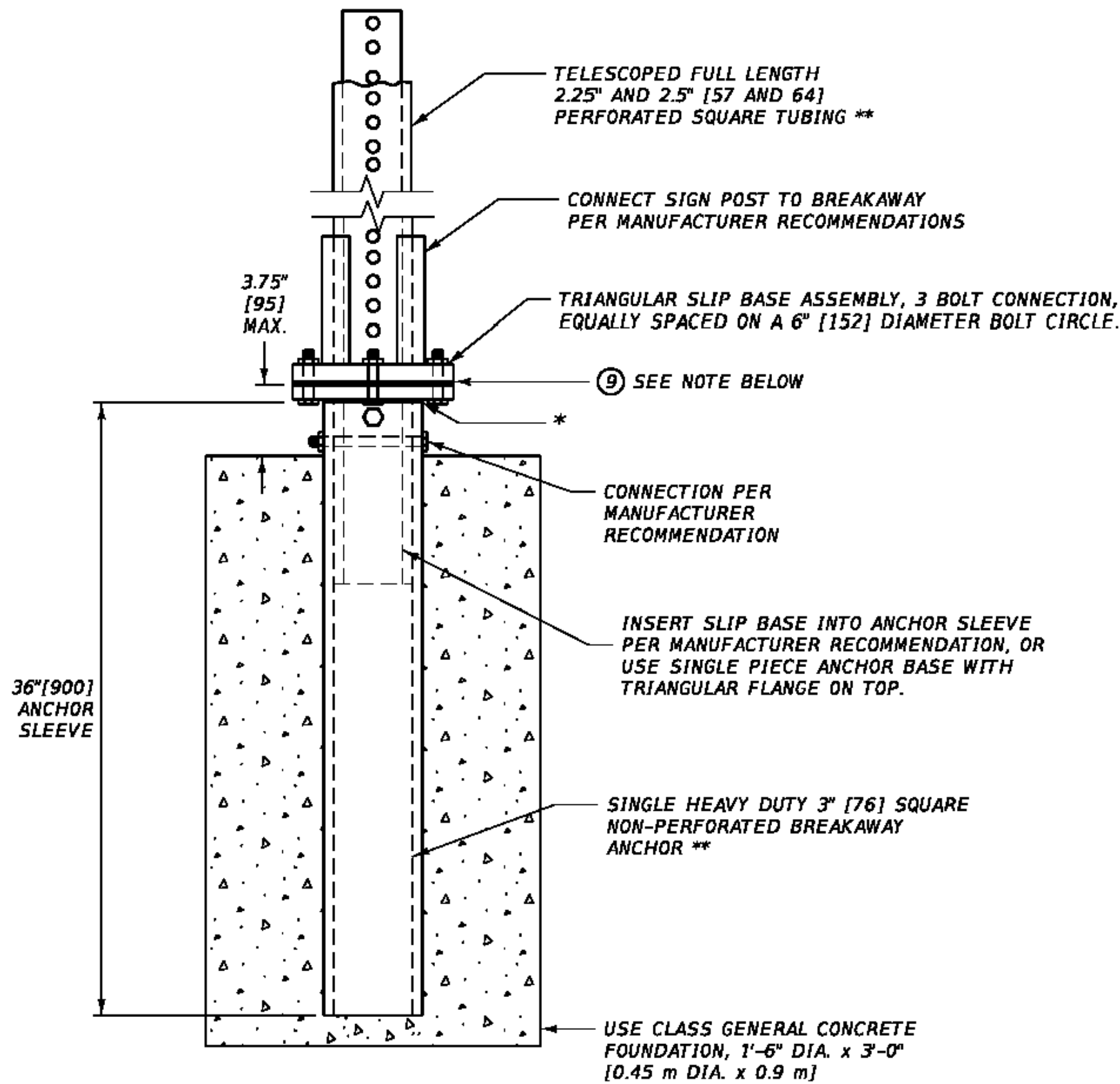


HARDIN WAYFINDING SIGNAGE	HARDIN, MT	SIGN POST
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IMEG Project No: 25001021	File Name: 25001021-SIGN_PLAN.dwg
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Date: 03/30/2026	SD-5
Sheet 16 of 18	

TELESCOPED SQUARE TUBES SIGN
POST INSTALLATION ON SLIP BASE

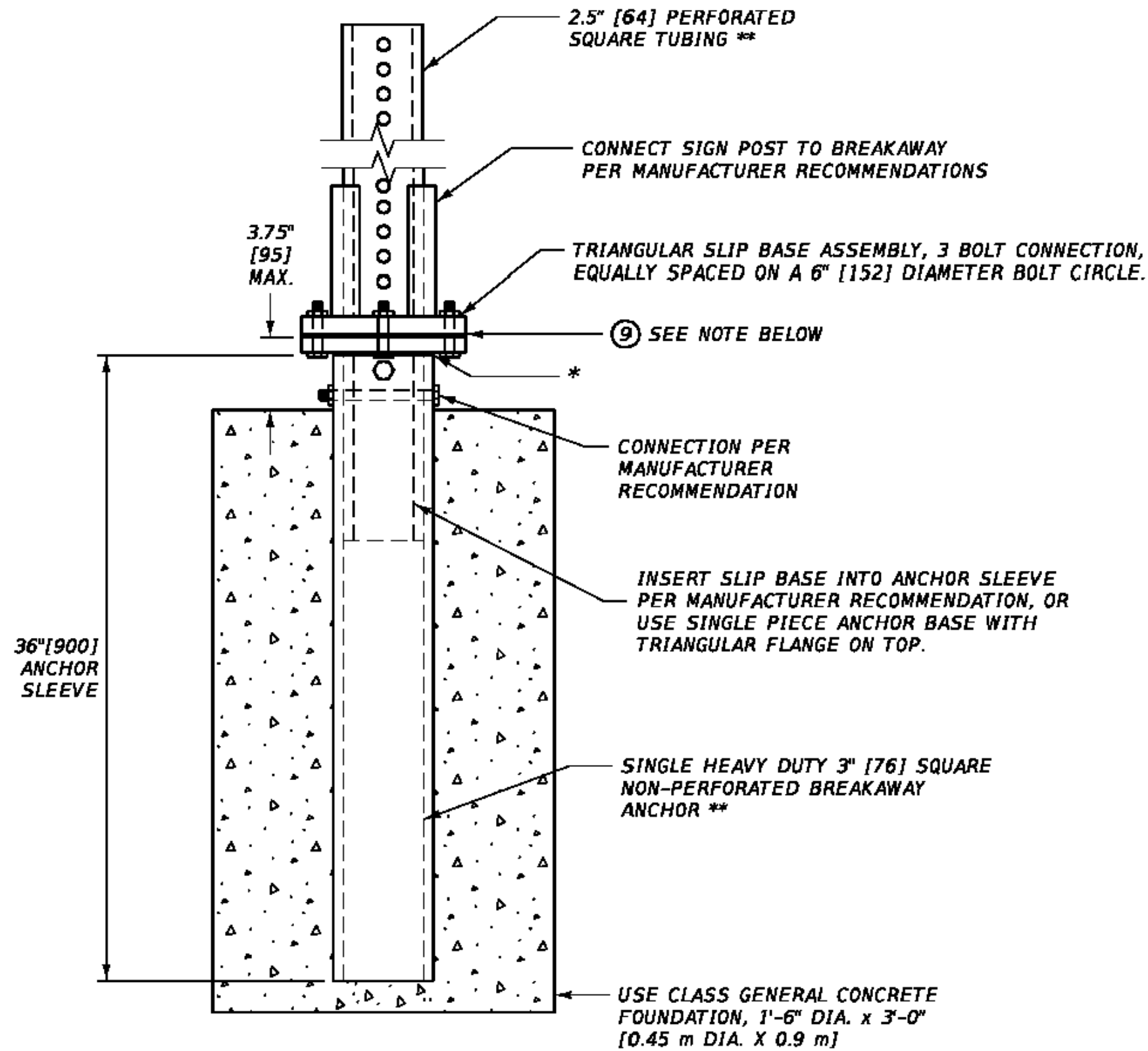
AS NOTED BY THE STAR SYMBOL
ON THE LOCATION AND
SPECIFICATION SHEETS.



* SHIM AS REQUIRED PER MANUFACTURER RECOMMENDATION
TO TAKE UP TOLERANCE BETWEEN SLIP BASE STUB
AND ANCHOR SLEEVE.

SINGLE SQUARE TUBE SIGN TO
POST INSTALLATION ON SLIP BASE

AS NOTED BY THE CIRCLE SYMBOL
ON THE LOCATION AND
SPECIFICATION SHEETS.

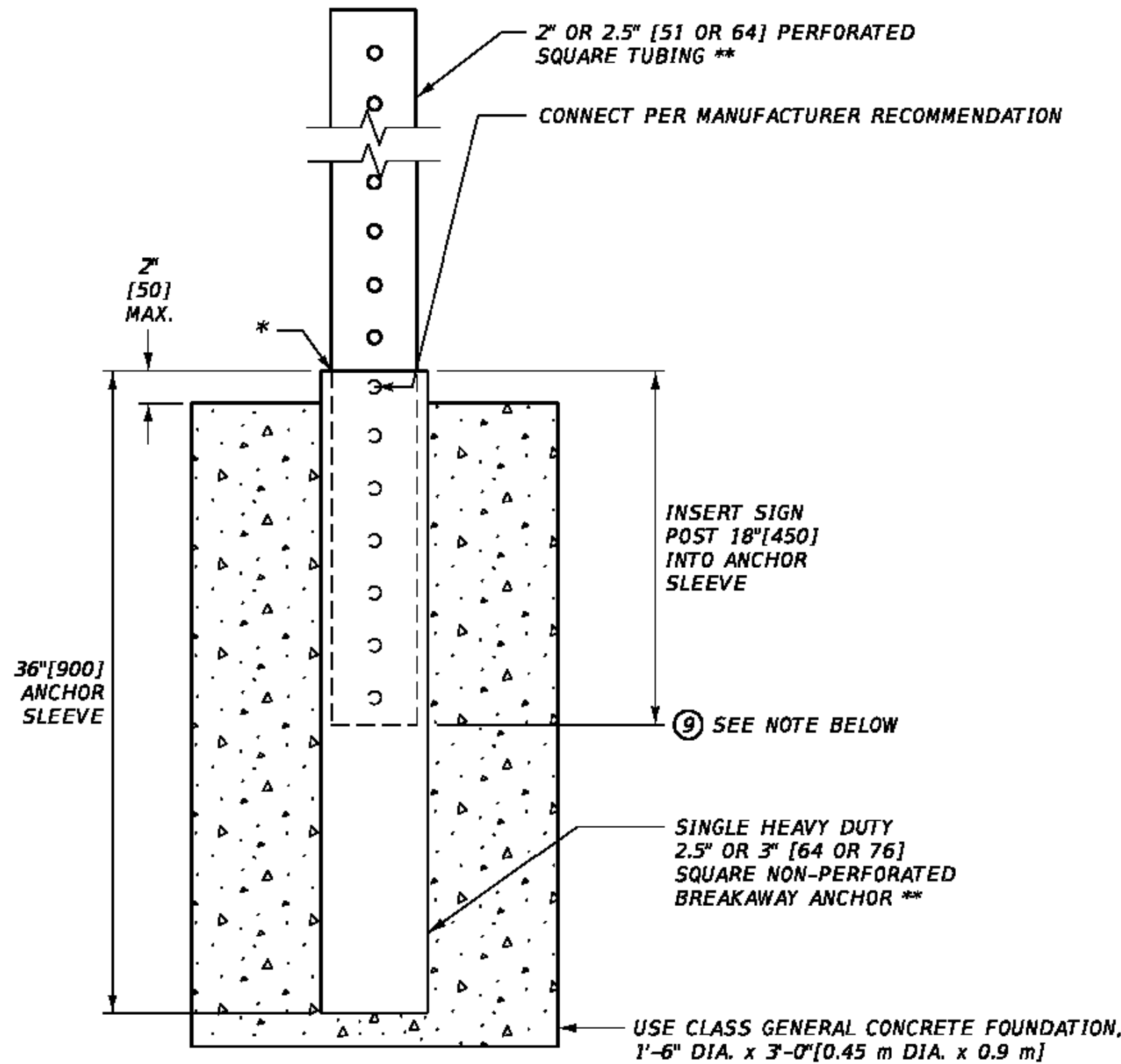


* SHIM AS REQUIRED PER MANUFACTURER RECOMMENDATION
TO TAKE UP TOLERANCE BETWEEN SLIP BASE STUB
AND ANCHOR SLEEVE.

SINGLE SQUARE TUBE SIGN
POST INSTALLATION

AS NOTED BY THE TRIANGLE SYMBOL
ON THE LOCATION AND
SPECIFICATION SHEETS.

(SURFACE MOUNT SYSTEMS LISTED ON THE DEPARTMENT'S QUALIFIED
PRODUCTS LIST ARE ALLOWED TO BE USED IN PLACE OF THE DESIGN
SHOWN HERE AS AN EQUAL OPTION.)



* MINIMUM OF 2 SHIMS REQUIRED PER INSTALLATION TO TAKE UP
TOLERANCE BETWEEN SUPPORT AND ANCHOR SLEEVE.

** SUPPORT AND ANCHOR COMPONENT UNIT WEIGHT					
SUPPORT			ANCHOR		
TUBE SIZE	WEIGHT	WALL THICKNESS	TUBE SIZE	WEIGHT	WALL THICKNESS
2" [51]	2.42 LB./FT. [3.6 kg/m]	0.105"(12 GAUGE) [2.7 (12 GAUGE)]	2.5" [64]	18.36 LB. EA. [8.33 kg EACH]	0.135"(7 GAUGE) [3.4 (7 GAUGE)]
2.25" [57]	2.77 LB./FT. [4.12 kg/m]	0.105"(12 GAUGE) [2.7 (12 GAUGE)]	3" [76]	22.98 LB. EA. [10.43 kg EACH]	0.188"(7 GAUGE) [4.8 (7 GAUGE)]
2.5" [64]	3.14 LB./FT. [4.67 kg/m]	0.105"(12 GAUGE) [2.7 (12 GAUGE)]			

NOTES:

- BREAKAWAY DEVICES MUST BE LISTED ON THE DEPARTMENT'S QUALIFIED PRODUCTS LIST.
- USE CLASS GENERAL CONCRETE WITH WOOD FLOAT FINISH ON TOP. FORM TOP 6" [150] OF FOUNDATION.
- GALVANIZE PIPE PER AASHTO M 111.

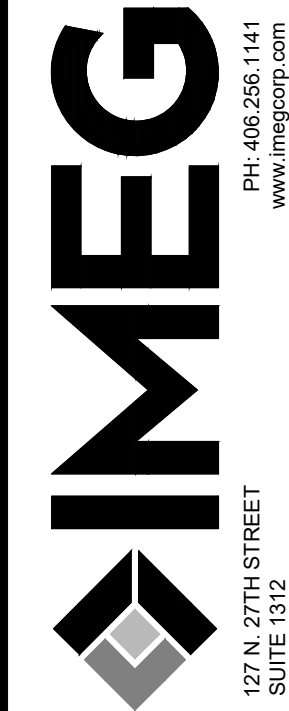
- PAINT PIPE WITH ONE SHOP COAT AND ONE FIELD COAT OF ZINC RICH BASED PAINT AND ONE FIELD COAT OF ALUMINUM PAINT, AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 710, ON ALL SURFACES NOT IN CONTACT WITH THE CONCRETE.
- CONFORM STEEL PIPE TO THE REQUIREMENTS OF ASTM A 53 TYPE E OR S, GRADE B.
- SUBMIT SHOP DRAWINGS TO BE APPROVED BY THE MONTANA DEPARTMENT OF TRANSPORTATION BEFORE FABRICATION HAS BEGUN.

- STEEL POSTS AND FOOTINGS IN PLACE, INCLUDING ALL CONCRETE, WELDING, EXCAVATION, AND ALL INCIDENTALS ARE INCLUDED IN THE UNIT PRICE BID PER POUND FOR TUBULAR STEEL POSTS.
- USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.
- POST LENGTH IS MEASURED FROM POINT INDICATED TO TOP OF POST. TYPE OF POSTS AND FOUNDATIONS, AS WELL AS LENGTHS ARE NOTED IN THE SIGNING QUANTITIES.
- POST AND ANCHOR COMPONENTS MEASURED BY WEIGHT ACCORDING TO "SUPPORT AND ANCHOR COMPONENT UNIT WEIGHT" TABLE.

UNITS SHOWN IN BRACKETS [] ARE
METRIC AND ARE IN MILLIMETERS (mm)
UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 556.619,704,710	DWG. NO. 619-14
SQUARE TUBULAR SIGN POST BREAKAWAY DEVICES	
MDT★ MONTANA DEPARTMENT OF TRANSPORTATION	

REVISIONS		DATE
NO.	DESCRIPTION	



HARDIN WAYFINDING SIGNAGE

HARDIN, MT

SIGN POST BREAKAWAY DEVICES

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File Name:
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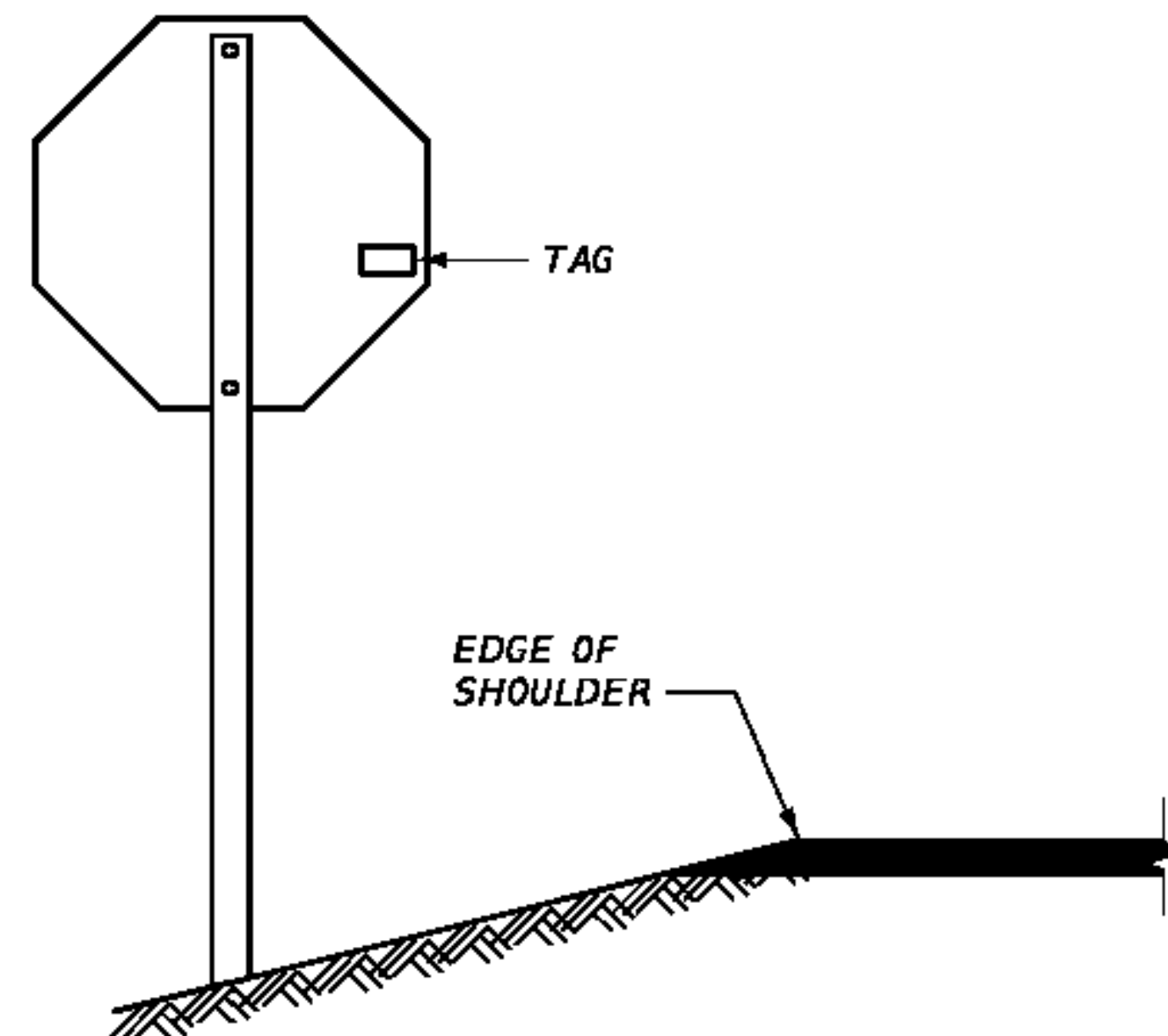
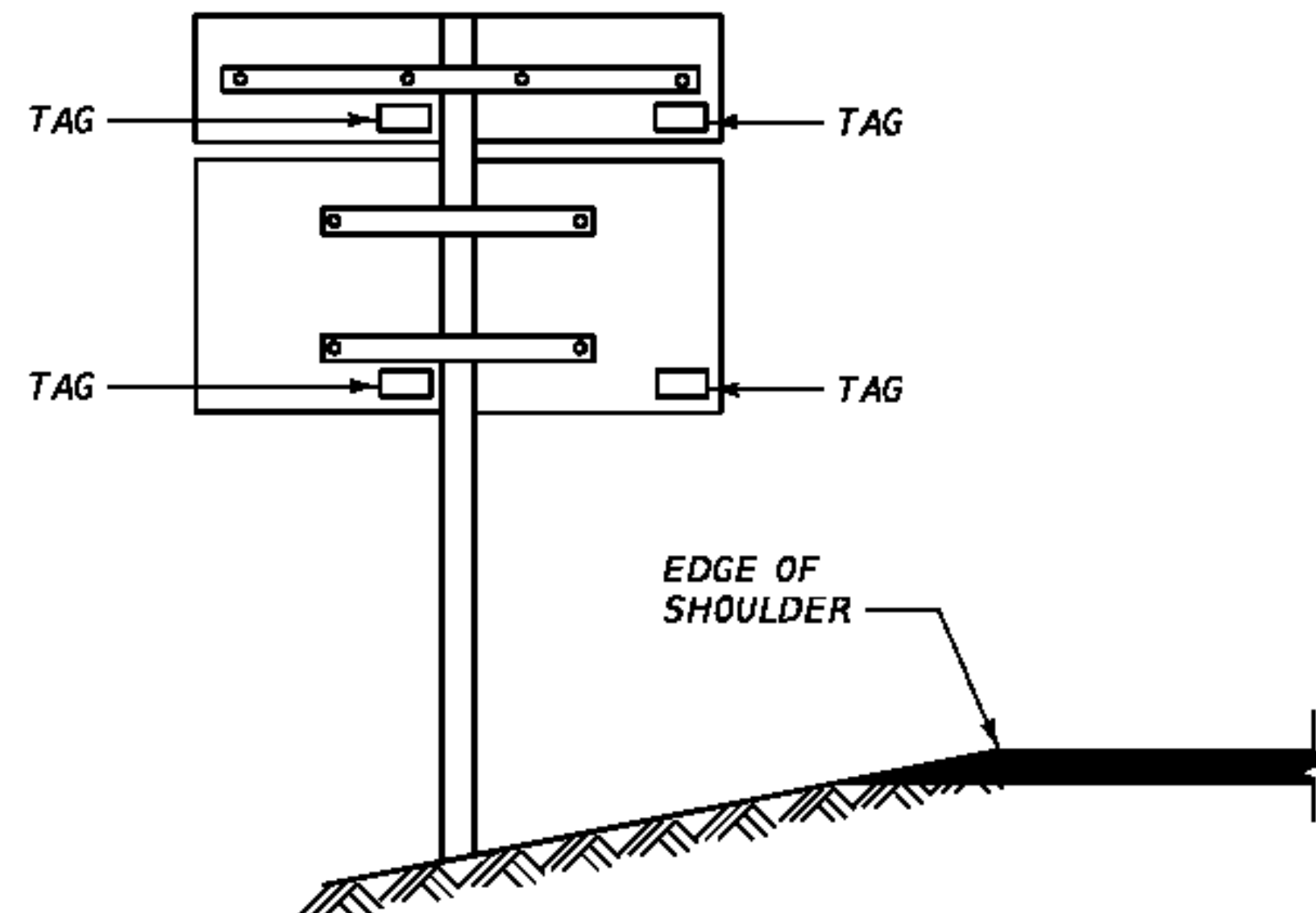
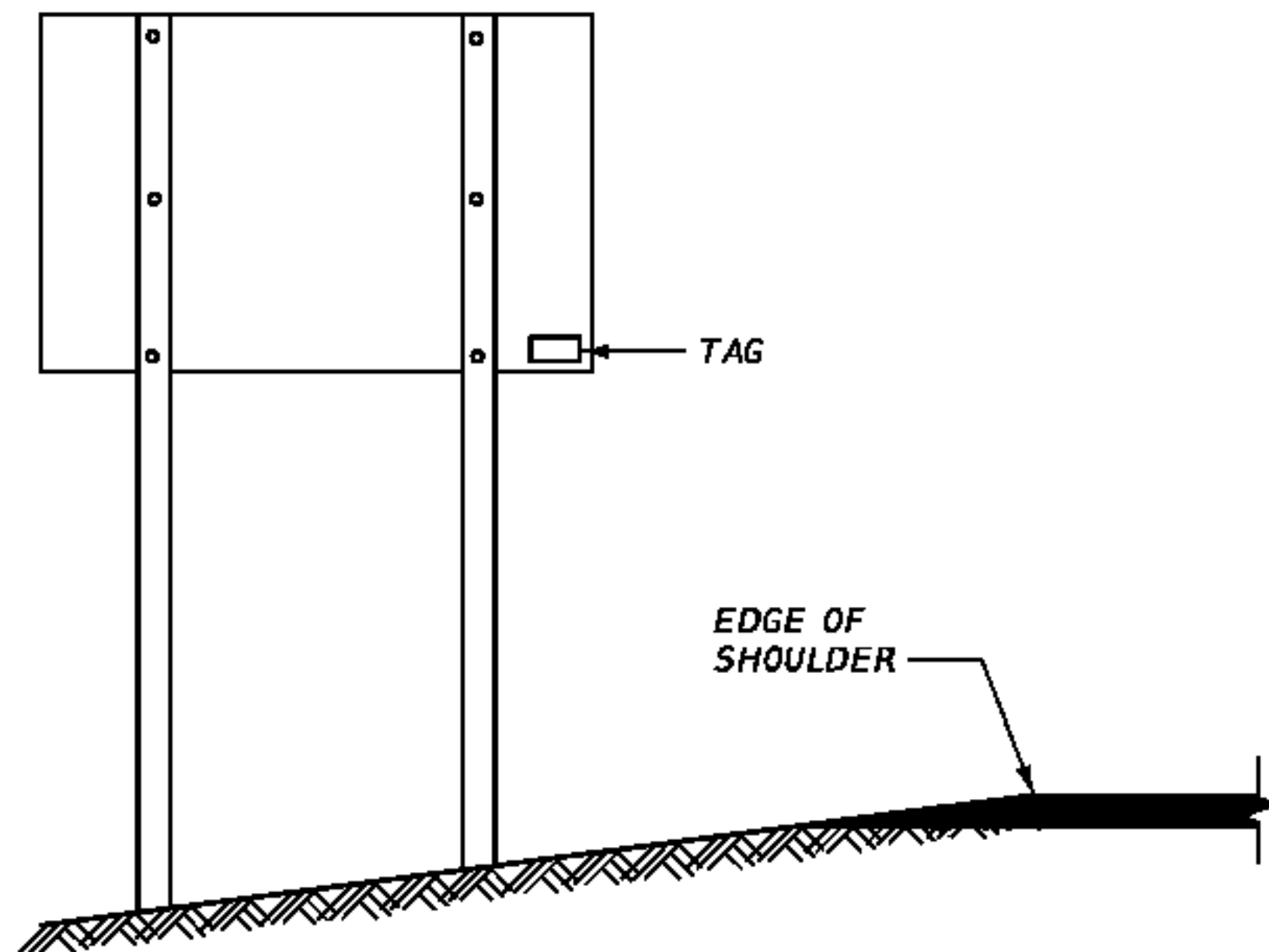
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Date: 03/30/2026

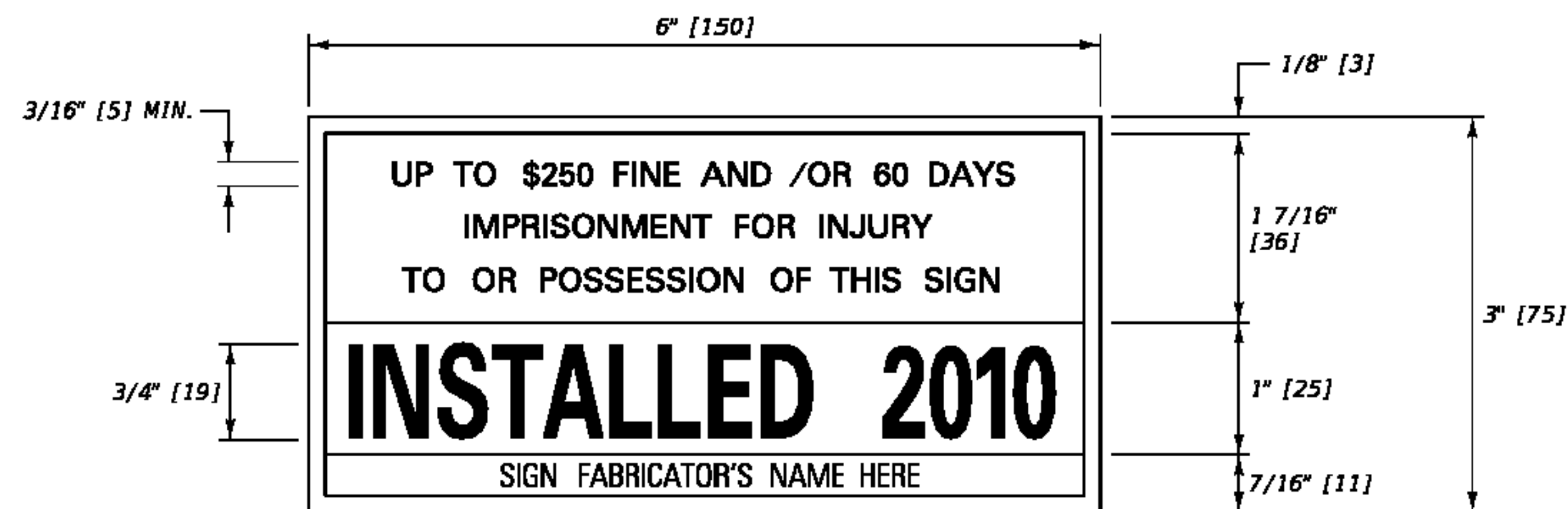
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PLACEMENT DETAILS



DATE TAG DETAIL

DATE TAG COLOR SEQUENCE

DATE TAG COLOR CORRESPONDS TO THE LAST DIGIT OF THE INSTALLATION YEAR AS FOLLOWS:

0 - YELLOW	5 - RED
1 - WHITE	6 - PURPLE
2 - LIGHT BLUE	7 - ORANGE
3 - GOLD	8 - BLUE
4 - LIGHT GREEN	9 - GREEN

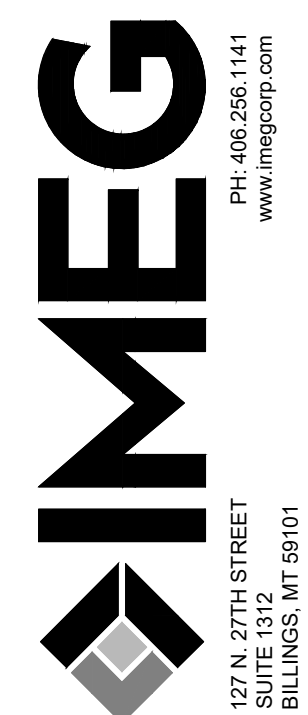
NOTES:

- ① FURNISH AND PLACE INSTALLATION DATE TAGS ON ALL SIGNS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- ② THE TAGS DISPLAY THE YEARS IN WHICH THE SIGNS WERE INSTALLED. SEE THE COLOR SEQUENCE TABLE SHOWN ON THIS DRAWING FOR THE APPROPRIATE COLORS. DATE TAGS ARE TO BE RETRO-REFLECTIVE.
- ③ PLACE A TAG ON THE BACK OF EACH SIGN, LOCATED NEAR THE LOWER CORNER OF THE SIGN NEAREST THE EDGE OF ROADWAY, TO BE VISIBLE FROM THE ROADWAY AS SHOWN IN THE EXAMPLES ABOVE.
- ④ PLACE TAGS ON ANY NEW SIGN INSTALLED IN THE FIELD AS ROUTINE MAINTENANCE BY MDT FORCES. MAINTENANCE DESIGN DATE TAGS CAN BE ORDERED FROM THE SIGN SHOP IN HELENA.
- ⑤ USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

UNITS SHOWN IN BRACKETS [] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWING	
REFERENCE STANDARD SPEC. SECTION 619, 704	DWG. NO. 619-44
INSTALLATION DATE TAGS	
MDT MONTANA DEPARTMENT OF TRANSPORTATION	

REVISIONS	
DESCRIPTION	DATE
No.	



HARDIN WAYFINDING SIGNAGE

HARDIN, MT

INSTALLATION DATE TAGS

IMEG Project No:
25001021

File Name:
25001021-SIGN_PLAN.dwg

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Date: 03/30/2026

SD-7

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