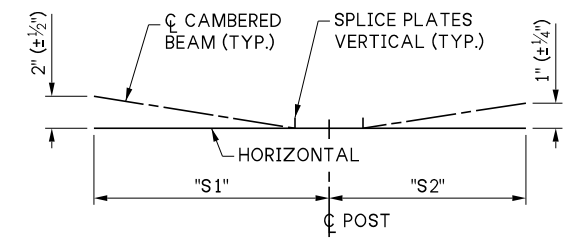
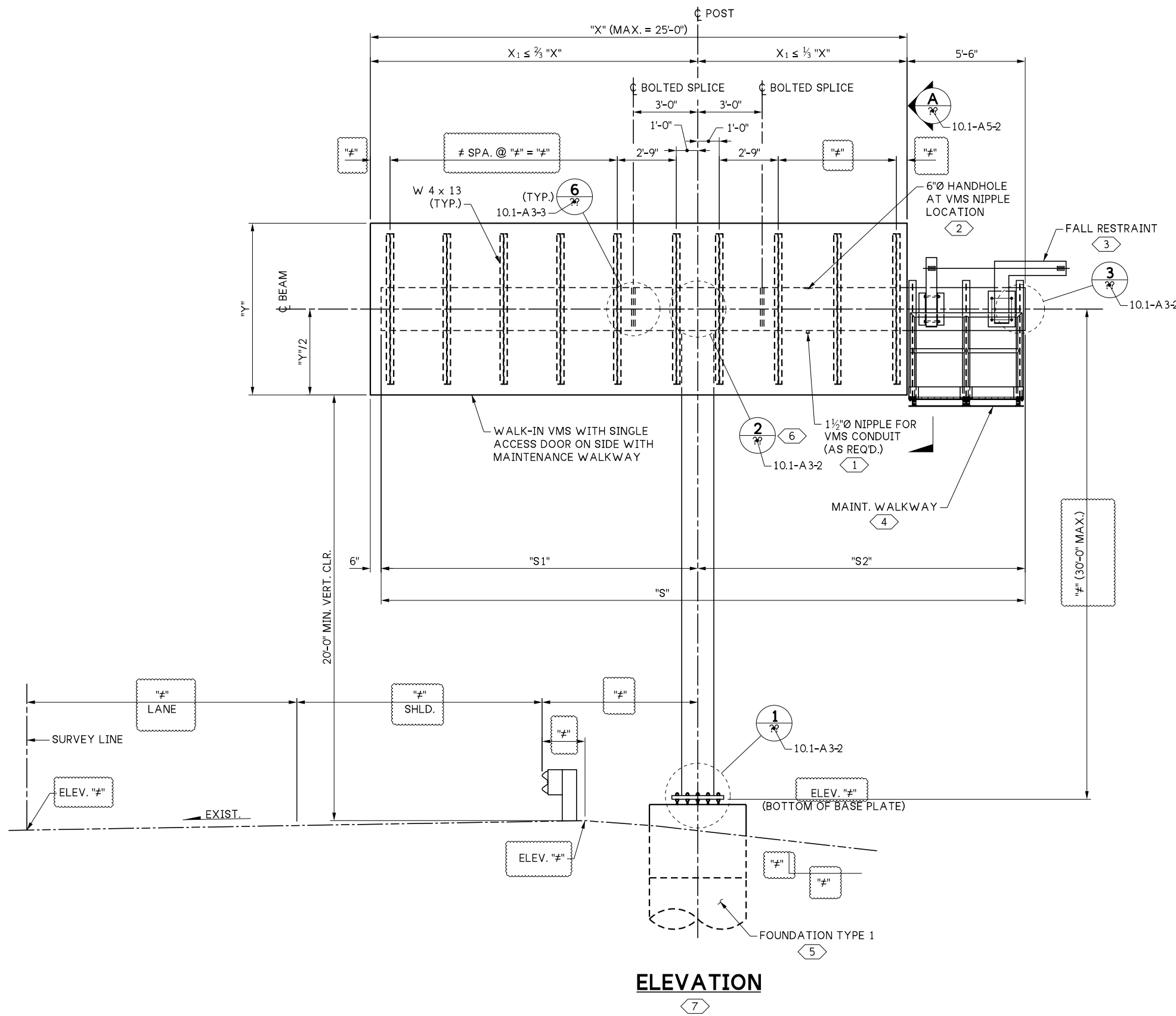


LAST REVISED: 08/28/2025



BEAM CAMBER DIAGRAM

NOTES TO THE DESIGNER:

- CAMBER AND TOLERANCE VALUES SHOWN ARE FOR "S1" = 20' AND "S2" = 10'.
- USE INTERPOLATION TO DETERMINE CAMBER AND TOLERANCE VALUES, BASED ON ACTUAL SPAN LENGTH.
- WALK IN VMS WITH SINGLE ACCESS DOOR IS SHOWN. FOR VMS WITH TWO DOORS, MAINTENANCE WALKWAYS ARE REQUIRED AT EACH DOOR. FALL RESTRAINT IS ONLY REQUIRED AT MAIN WALKWAY USED FOR PRIMARY ACCESS.
- VERIFY THAT ATTACHMENT BRACKETS DO NOT INTERFERE WITH HANDHOLES, DRAIN HOLES, NEMA 3 BOXES, NIPPLES ETC.
- DELETE ALL LIGHTS AND ELECTRICAL DETAILS, CALLOUTS, AND NOTES IF NO ELECTRICAL ITEMS REQUIRED ON THE SIGN STRUCTURE.
- EXISTING ROADWAY LINES DASHED AND NEW ROADWAY IS SOLID.
- REMOVE NOTES THAT ARE NOT APPLICABLE.
- VERIFY NIPPLE LOCATIONS WITH REGION.
- CAMBER SHALL BE ADJUSTED TO ACCOUNT FOR BEAM LENGTH ON BOTH SIDES.
- "#" IS SHOWN WHERE DIMENSIONS ARE REQUIRED.
- MODIFIED FALL RESTRAINT SUPPORT SHALL BE CHANGED TO STANDARD SUPPORT FOR SMALLER VMS SIGNS.

KEY NOTES:

- 1 CONTRACTOR TO VERIFY NIPPLE LOCATION TO MATCH VMS FIXTURE CONDUIT LOCATIONS. PRIOR TO SIGN STRUCTURE FABRICATION. NO FIELD WELDING OR DRILLING SHALL BE PERMITTED.
- 2 HANDHOLE IS ONLY REQUIRED IF NIPPLE LOCATION IS GREATER THAN 1'-6" FROM ANOTHER HANDHOLE LOCATION.
- 3 SEE STD. PLAN G-95.20 FOR DETAILS EXCEPT AS NOTED IN "MODIFIED FALL RESTRAINT BRACKET DETAIL" ON BR. SHT. 10.1-A5-2.
- 4 SEE STD. PLAN G-95.20 FOR DETAILS.
- 5 SEE BR. SHT. 10.1-A4-1 (FOUNDATION TYPE 2 OR 3 SEE BR. SHT. 10.1-A4-3 NOT SHOWN).
- 6 ERECT POST SET BACK 1" ± 1/4" TRANSVERSE TO CL OF ROADWAY, FROM VERTICAL AT CL OF BEAM.
- 7 BALANCED CANTILEVER #_ STA. _____ RT./LT. THE MAXIMUM SIGN ARE ON THIS STRUCTURE SHALL BE 252 SQ. FT.

10.1-A3-1

<p>FILE NAME: 10.1-A3-1_Monotube Balanced Cantilever Layout.dgn</p> <p>BRIDGE DES. ENG.</p> <p>BRIDGE PROJ. ENG.</p> <p>SUPERVISOR</p> <p>DESIGNED BY</p> <p>CHECKED BY</p> <p>ENTERED BY</p> <p>PRELIM. PLAN BY</p> <p>ARCH. / SPEC.</p>	<p>REGION NO. 10</p> <p>STATE WASH</p> <p>JOB NUMBER</p> <p>CONTRACT NO.</p>	<p>PRELIMINARY PLAN NOT FOR CONSTRUCTION</p>	<p>SEE CERTIFICATION SHEET DATE</p> <p>STAMP BOX</p>	<p>SEE CERTIFICATION SHEET DATE</p> <p>STAMP BOX</p>	<p>STANDARD DESIGN DRAWINGS MONOTUBE SIGN STRUCTURES</p> <p>MONOTUBE BALANCED CANTILEVER LAYOUT</p>	<p>PLAN REF NO</p> <p>SHEET</p> <p>OF</p> <p>SHEETS</p>
<p>PLOT DATE: 02-Oct-2025 PLOT TIME: 10:38:11 AM PLOTTED BY: deboeak FILE PATH: pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Standards/Standard Drawings and Details/Sign Structures and Components/_DGN/10.1-A3-1_Monotube Balanced Cantilever Layout.dgn</p>						