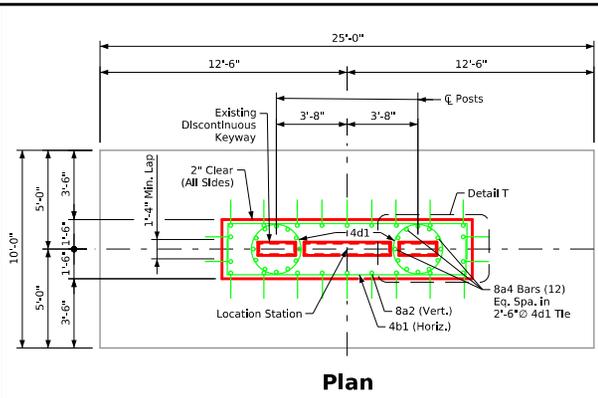
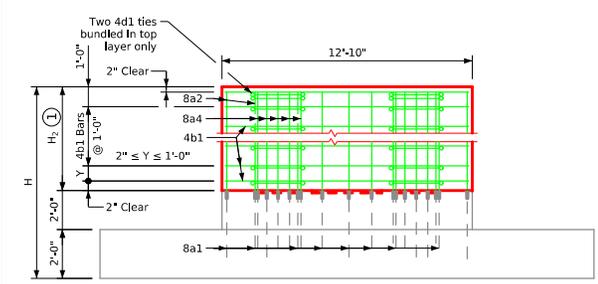


*Revised 06-2025: This sheet resubmitted, sheet format update.
 -steeloverheadsigntruss.dgn - SOST-21-11 - This sheet issued 03-2013. This sheet remained from SOST-20-11 to SOST-21-11 on 02-2019.



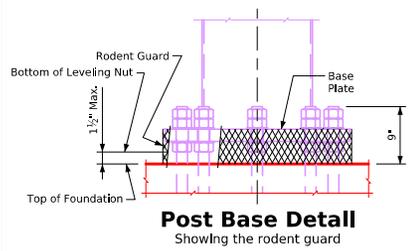
Plan

8a2, 8a4, applicable 4b1 and applicable 4d1 bars are to be provided, transported, and stockpiled as directed by the Engineer during Stage 1. Obtain, transport and place 8a2, 8a4, applicable 4b1 and applicable 4d1 bars as directed by the Engineer during Stage 2.



Side Elevation

① $H_2 =$ shall not exceed 8'-6" nor be less than 5'-0".

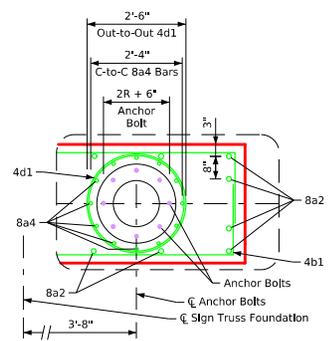


Post Base Detail
Showing the rodent guard

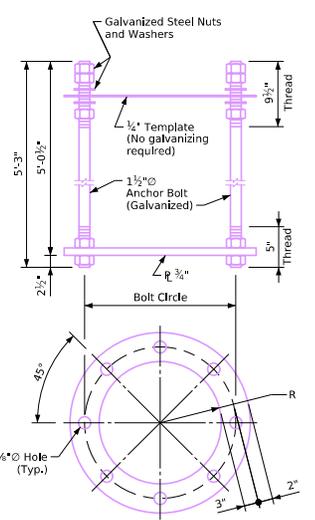
The rodent guard shall be placed around the base plate.

The rodent guard is stainless steel standard grade wire cloth, 1/2" maximum opening with a minimum wire diameter of AWG No. 16 with a minimum 2" lap.

Secure wire cloth to base plate after erection with 3/4" stainless steel banding. The rodent guard shall not extend above the top of the base plate.

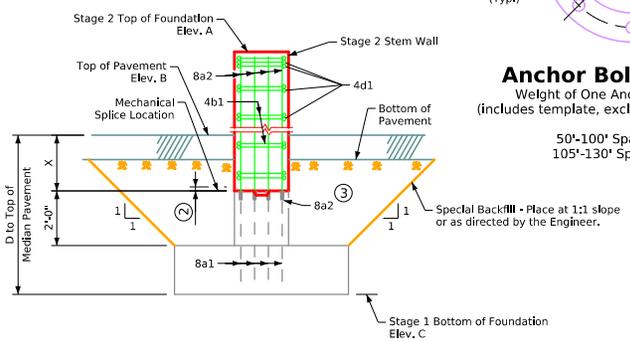


Detail T
Anchor Bolt and Anchor Reinforcing Placement
Keyway not shown



Anchor Bolt Assembly
Weight of One Anchor Bolt Assembly (includes template, excludes galvanizing weight)

50'-100' Spans: 388 lbs.
105'-130' Spans: 397 lbs.



End Elevation

8a3 and 8a4 bars and keyway not shown

② 1/2" thick plywood removed for construction of Stage 2.

③ The 8a2 and 8a4 bars shall be spliced at the locations shown using mechanical splices assemblies. Mechanical splices shall be selected during Stage 1 from Materials I.M. 451 Appendix E to enable the splice to be flush with the top of the Stage 1 stem wall. The top of the Stage 1 foundation stem wall will be temporarily covered with a 1/2" thick plywood sheet to keep the concrete surface and mechanical splices clean.

Elev. A = Stage 2 top of foundation elevation
 Elev. B = Top of pavement elevation
 Elev. C = Stage 1 bottom of foundation elevation
 Elev. C should be set so that [Elev. A - Elev. C] is a multiple of 1'-0".

D = [Elev. B - Elev. C]
 X shall not be less than 2'-0".
 Y shall not be less than 2" nor greater than 1'-0".

Elev. A, Elev. B, and Elev. C shall be as shown elsewhere in these plans.

General Notes:

Structural concrete, Class C, shall be used for the foundation.

Two anchor bolt assemblies including anchor plates, templates, nuts (5 per bolt) and washers (2 per bolt) are required per foundation.

All anchor bolt materials and galvanizing shall be in accordance with Article 4187.01, C, 3 of the Standard Specifications.

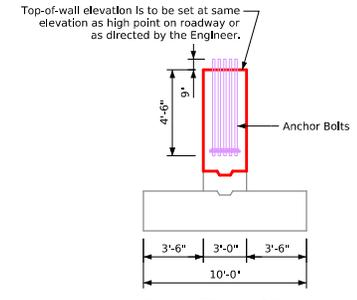
All mechanical splice assemblies, 8a2, 8a4, 4b1 and 4d1 bars shall have been furnished in Stage 1. A total of 46 mechanical splices shall have been embedded in the top of the Stage 1 foundation stem wall. Obtain, transport and place 8a2, 8a4, applicable 4b1 and applicable 4d1 bars as directed by the Engineer in Stage 2.

A rodent guard shall be placed around the base plate as detailed hereon.

See Standard Sheet SOST-19-11 for clarification of Stage 2 foundation construction activities and price bid for contract items.

	R	Bolt Circle Diameter
For 14" Dia Posts (50'-100' Spans)	7	1'-8"
For 16" Dia Posts (105'-130' Spans)	8	1'-10"

Concrete Placement Quantities	
One Foundation - Stage 2	
Item	C.Y.
Wall (Stage 2)	(38.5 x H ₂)/27, H ₂ in ft.
Footing	--
Total	(38.5 x H₂)/27, H₂ in ft.



End Elevation
Anchor Bolts

Work this sheet with Standard Sheets SOST-19-11 "Staged Foundation Construction Notes" and SOST-20-11 "Stage 1 Foundation Details".

06-2025 Latest Revision Date	Approved by Bridge Engineer	IOWA DOT	
		Standard Design	
		Steel Overhead Sign Truss	
		September, 2011	
		Stage 2 Foundation Details 50'-130' Spans	SOST-21-11