

* Revised 06-2025: This sheet reissued, sheet format update, -steeloverheadsigntruss.dgn - SOST-19-11 - This sheet issued 02-2019, (Original sheet SOST-19-11 renamed SOST-20-11).

Staged Foundation Construction Notes:

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

Excavation for the foundation shall be to neat lines and concrete shall be placed against the undisturbed material. All excavation for the foundation shall be disposed as directed by the Engineer. The foundation details shown are based on a net allowable soil bearing pressure (for settlement) of 1.0 ton / ft². (Foundation is based on a maximum soil surcharge depth of 1'-0".)

Accurate placement of 8a3 bars shall be considered essential. 8a4 bars will be mechanically spliced to 8a3 bars during Stage 2 and must not interfere with anchor bolt assemblies.

All mechanical splice assemblies to be used in splicing 8a1, 8a2, 8a3, and 8a4 bars shall be epoxy coated.

Clarification Of Stage 1 Foundation Construction Activities:

All splice assemblies shall be furnished and installed in Stage 1.

All reinforcing bars to be placed in Stage 1 and Stage 2 shall be furnished in Stage 1.

All reinforcing bars to be placed in Stage 2 (i.e., 8a2, 8a4, applicable 4b1 and applicable 4d1 bars) shall be transported and stockpiled in an appropriate storage location as directed by the Engineer in Stage 1.

Concrete for Stage 1 foundation (i.e., Stage 1 footing and Stage 1 stem wall) shall be placed in Stage 1.

Special backfill (see Section 4132 of the Standard Specifications for description and gradation) shall be placed in Stage 1.

Clarification Of Stage 2 Foundation Construction Activities:

All reinforcing bars to be placed in Stage 2 (i.e., 8a2, 8a4, applicable 4b1 and applicable 4d1 bars) shall be obtained from storage, transported and placed as directed by the Engineer in Stage 2.

All anchor bolt assemblies and rodent guards shall be furnished and installed in Stage 2.

The portion of special backfill placed in Stage 1 above the plywood sheet covering the top of the Stage 1 stem wall shall be sufficiently removed in Stage 2 to expose and maintain a clean cold joint before construction of the Stage 2 stem wall.

Concrete for Stage 2 foundation (i.e., Stage 2 stem wall) shall be placed in Stage 2.

After completion of the Stage 2 stem wall, the excavated special backfill around the stem wall shall be replaced up to the bottom of pavement elevation. The backfill shall be replaced in loose 6-Inch lifts and compacted with a mechanical tamper. Moisture adjustment shall be employed as needed.

Price Bid For Contract Items:

If Stage 1 and Stage 2 of the foundation are to be constructed in the same project, the price bid for contract items shall include all labor and materials necessary to construct both Stage 1 and Stage 2 of the foundation as detailed on Standard Sheets SOST-20-11 and SOST-21-11 including both the Stage 1 and Stage 2 construction activities listed on this sheet.

If Stage 2 of the foundation will be constructed in a separate project, the price bid for contract items shall include all labor and materials necessary to construct the Stage 1 foundation as detailed on Standard Sheet SOST-20-11 (worked with Standard Sheet SOST-21-11) including the Stage 1 construction activities listed on this sheet.

If Stage 1 of the foundation has been constructed in a separate project, the price bid for contract items shall include all labor and materials necessary to construct the Stage 2 foundation as detailed on Standard Sheet SOST-21-11 (worked with Standard Sheet SOST-20-11) including the Stage 2 construction activities listed on this sheet.

The cost of all splice assemblies is to be included in the price bid for "Reinforcing Steel, Epoxy Coated" and no separate payment will be made. The weight of mechanical splice assemblies is not included in the quantity shown for "Reinforcing Steel, Epoxy Coated". A total of 46 splices will be required.

The Contractor is strongly encouraged to construct a template for the 8a3 bars in Stage 1 to ensure that they are in the correct locations when the 8a4 bars are placed in Stage 2. The 8a4 bars shall not interfere with the anchor bolt assembly.

The cost of furnishing and installing rodent guards, the cost of removing special backfill, and the cost of transportation and placement of reinforcing bars to be placed in the Stage 2 foundation (i.e., 8a2, 8a4, applicable 4b1 and applicable 4d1 bars) shall be included in the price bid for "Structural Concrete (Miscellaneous)" and no separate payment will be made. The cost of furnishing anchor bolt assemblies shall be included in the price bid for "Anchor Bolt Assembly - Furnish". (Note that this is a special bid item.) The cost of accurately installing and surveying anchor bolt assemblies shall be included in the price bid for "Anchor Bolt Assembly - Install and Survey". (Note that this is a special bid item.) See Structural Alignment/Tolerance Notes on Sheet Standard SOST-01-11 for anchor bolt assembly alignment documentation requirements.

Contract items for overhead sign truss foundation construction are:

Reinforcing Steel, Epoxy Coated - pounds
(Stage 1 activity)

Structural Concrete (Miscellaneous) - cubic yards
(Stage 1 and Stage 2 activities)

Excavation - cubic yards of class specified
(Stage 1 activity)

Special Backfill - cubic yards
(Stage 1 activity)

Anchor Bolt Assembly - Furnish (special bid item) - pounds
(Stage 2 activity)

Anchor Bolt Assembly - Install and Survey (special bid item) - each
(Stage 2 activity)

Work this sheet with Standard Sheets SOST-20-11 "Stage 1 Foundation Details" and SOST-21-11 "Stage 2 Foundation Details".

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	Standard Design Steel Overhead Sign Truss September, 2011	
	Staged Foundation Construction Notes 50'-130' Spans	SOST-19-11