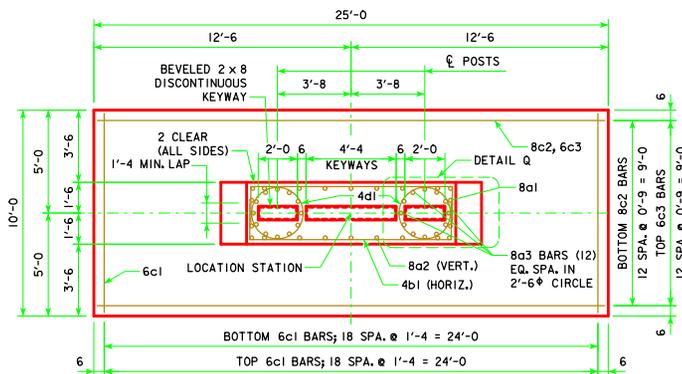
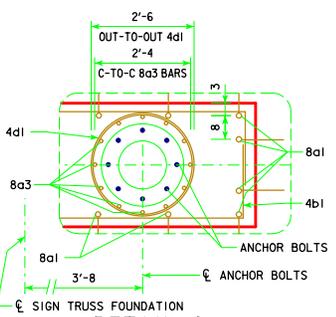


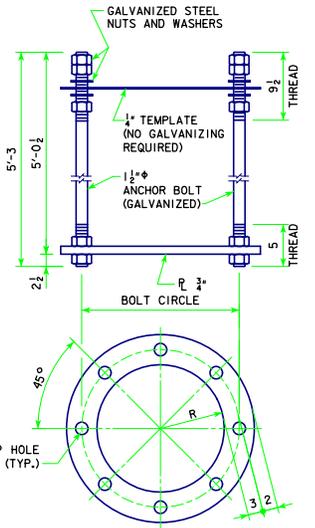
REVISION: 06-13 - CHANGED LABEL FOR DETAIL STEEL OVERHEAD SIGN TRUSS TO SOST-17-11 - THIS SHEET ISSUED 09-11.



PLAN
ANCHOR BOLT ASSEMBLIES NOT SHOWN



DETAIL Q
ANCHOR BOLT AND ANCHOR REINFORCING PLACEMENT
KEYWAY NOT SHOWN



ANCHOR BOLT ASSEMBLY

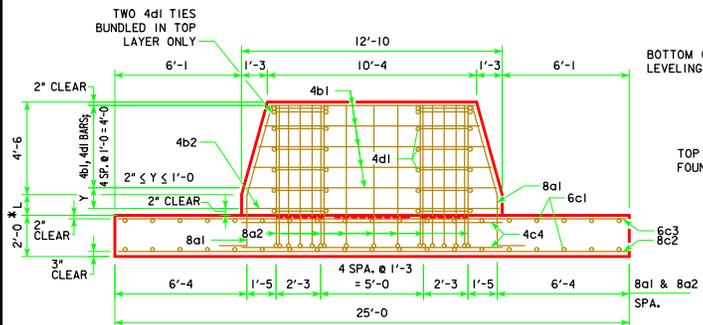
GENERAL NOTES:

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 IN THE AREA ADJACENT TO THE FOUNDATION AND SHAPED TO NORMAL GROUND CONTOUR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAXIMUM DESIGN BEARING CAPACITY IS 1.0 TON PER SQUARE FOOT.
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 THE REQUIREMENTS OF IOWA DOT MATERIALS I.M. 453.08.
PRICE BID FOR CONTRACT ITEMS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT OVERHEAD SIGN TRUSS FOUNDATION AS DETAILED HEREON. THE COST OF FURNISHING AND INSTALLING ANCHOR BOLT ASSEMBLIES, CONDUIT, AND RODENT GUARDS ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR STRUCTURAL CONCRETE. CONTRACT ITEMS FOR OVERHEAD SIGN TRUSS FOUNDATION CONSTRUCTION ARE:
REINFORCING STEEL, EPOXY COATED - POUNDS
STRUCTURAL CONCRETE (MISCELLANEOUS) - CUBIC YARDS
EXCAVATION - CUBIC YARDS OF CLASS SPECIFIED

CONCRETE PLACEMENT QUANTITIES
(ONE FOOTING)

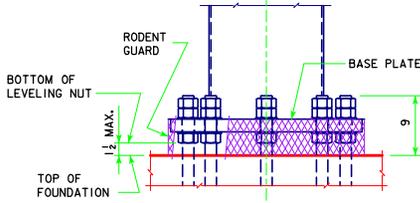
ITEM	L = 0	EACH 1'-0" OF L
WALL	5.71	1.41
FOOTING	18.52	---
TOTAL (C.Y.)	24.23	1.41

TOP-OF-WALL ELEVATION IS TO BE SET AT SAME ELEVATION AS HIGH POINT ON ROADWAY OR AS DIRECTED BY THE ENGINEER.



SIDE ELEVATION
ANCHOR BOLT ASSEMBLIES NOT SHOWN

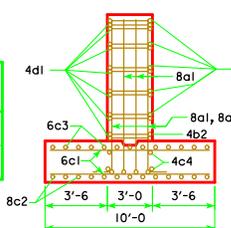
* L SHALL NOT EXCEED 6'-0"



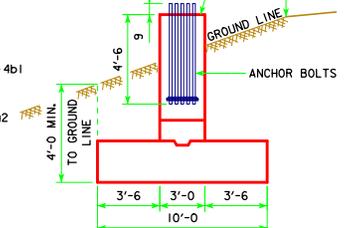
POST BASE DETAIL
SHOWING THE RODENT GUARD

THE RODENT GUARD SHALL BE PLACED AROUND THE BASE PLATE.
THE RODENT GUARD IS STAINLESS STEEL STANDARD GRADE WIRE CLOTH, 1/4" 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 3/8" STAINLESS STEEL BANDING. THE RODENT GUARD SHALL NOT EXTEND ABOVE THE TOP OF THE BASE PLATE.

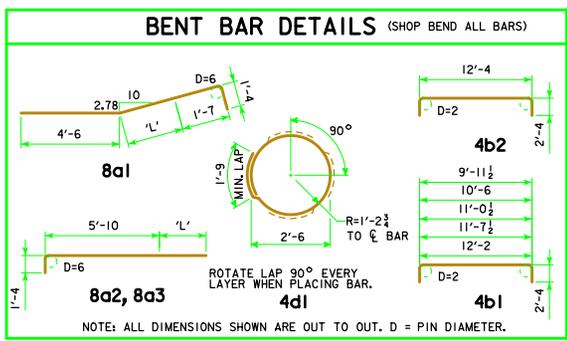
	R	BOLT CIRCLE DIAMETER
FOR 14" POSTS (50'-100' SPANS)	7	1'-8"
FOR 16" POSTS (105'-130' SPANS)	8	1'-10"



END ELEVATION
REINFORCING - 8a3 NOT SHOWN



END ELEVATION
ANCHOR BOLTS



NOTE: ALL DIMENSIONS SHOWN ARE OUT TO OUT. D = PIN DIAMETER.

- (A) ADDITIONAL LENGTH TO BARS 8a1, 8a2, AND 8a3 FOR L > 0
- (B) TWO IN EACH 1'-0" OF L
- (C) MAINTAIN UNIFORM 1'-0" SPACING FOR ALL VALUES OF L, WITH REMAINDER SPACING AT BOTTOM OF STEM WALL 2" SY 1'-0".

** BUNDLE TWO 4d1 CIRCULAR TIES IN TOP LAYER.

REINFORCING BAR LIST - EPOXY COATED
ONE FOUNDATION

SIZE	SHAPE	TABULATED VALUE FOR L = 0			EACH 1'-0" OF L		
		NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT
8a1		8	7'-5"	158	8	1'-0" (A)	21
8a2		14	7'-2"	268	14	1'-0" (A)	37
8a3		24	7'-2"	459	24	1'-0" (A)	64
4b1		10	Varies	105	---	---	---
4b2		---	---	---	2 (B)	17'-0"	23
6c1		38	9'-6"	542	1'-4"	---	---
8c2		13	24'-6"	850	0'-9"	---	---
6c3		13	24'-6"	478	0'-9"	---	---
4c4		4	12'-8"	34	SEE DETAIL	---	---
4d1		12**	9'-6"	76	1'-0" (C)	2 (B)	9'-6"
TOTAL 2970 LBS.				TOTAL 158 LBS.			

FOR DMS TRUSSES ONLY
ELECTRICAL CONDUIT IS REQUIRED IN FOUNDATIONS SUPPORTING TRUSSES WITH DYNAMIC MESSAGE SIGNS. SEE STANDARD SHEET SOST-18-11 FOR CONDUIT LOCATION DETAILS.

LATEST REVISION DATE: 06-13

APPROVED BY BRIDGE ENGINEER: *Norman E. McQuinn*

Iowa Department of Transportation
Highway Division
STANDARD DESIGN

STEEL OVERHEAD SIGN TRUSS
SEPTEMBER, 2011

NON-STAGED FOUNDATION DETAILS
50'-130' SPANS

SOST-17-11