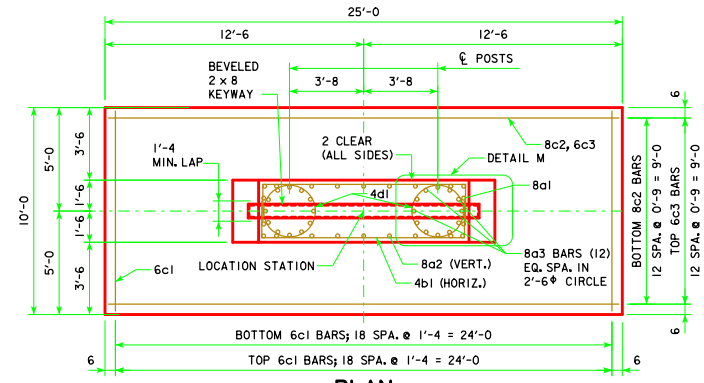
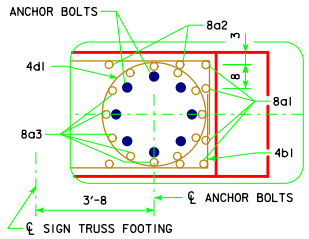


PLAN

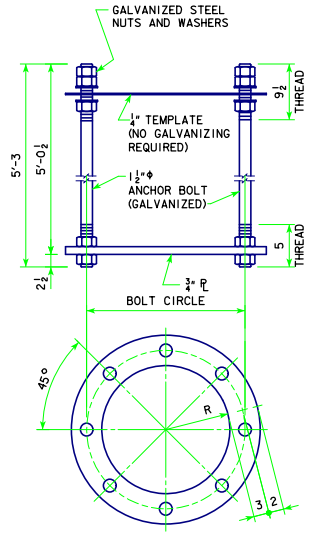
ANCHOR BOLT ASSEMBLIES NOT SHOWN



DETAIL M

ANCHOR BOLT AND ANCHOR REINFORCING PLACEMENT

KEYWAY NOT SHOWN



ANCHOR BOLT ASSEMBLY

GENERAL NOTES:

STRUCTURAL CONCRETE, CLASS C, SHALL BE USED FOR THE FOOTING.

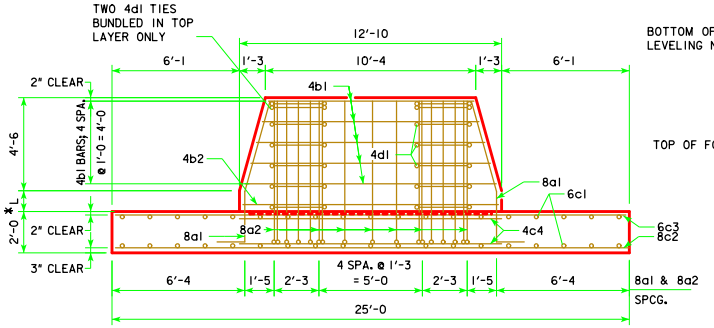
EXCAVATION FOR FOOTING SHALL BE TO NEAT LINES AND CONCRETE SHALL BE PLACED AGAINST THE UNDISTURBED MATERIAL. ALL EXCAVATION FOR THE FOOTING SHALL BE DISPOSED OF IN THE AREA ADJACENT TO THE FOOTING AND SHAPED TO NORMAL GROUND CONTOUR, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAXIMUM DESIGN BEARING CAPACITY IS 1.0 TONS PER SQUARE FOOT.

THE REQUIREMENTS PER FOOTING ARE TWO ANCHOR BOLT ASSEMBLIES INCLUDING SHIMS, NUTS (5 PER BOLT) AND WASHERS. REFER TO HARDWARE CLASSIFICATION TABLE FOR MATERIALS AND GALVANIZING REQUIREMENTS.

PRICE BID FOR CONTRACT ITEMS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO CONSTRUCT OVERHEAD SIGN FOOTING 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 FOOTING CONSTRUCTION ARE:

- EPOXY COATED REINFORCING STEEL, POUNDS
- STRUCTURAL CONCRETE (MISCELLANEOUS), CUBIC YARDS
- EXCAVATION, CUBIC YARDS OF CLASS SPECIFIED

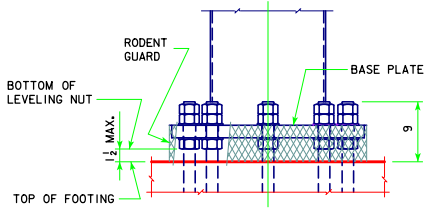
ALL ANCHOR BOLT MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF IOWA DOT MATERIALS IM 453.08.



SIDE ELEVATION

ANCHOR BOLT ASSEMBLIES NOT SHOWN

*L SHALL BE LESS THAN 6'-0



POST BASE DETAIL

SHOWING THE RODENT GUARD

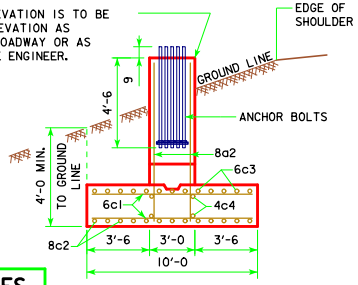
THE RODENT GUARD SHALL BE PLACED AROUND THE BASE PLATE.

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 3/4" STAINLESS STEEL BANDING. THE RODENT GUARD SHALL NOT EXTEND ABOVE THE TOP OF THE BASE PLATE.

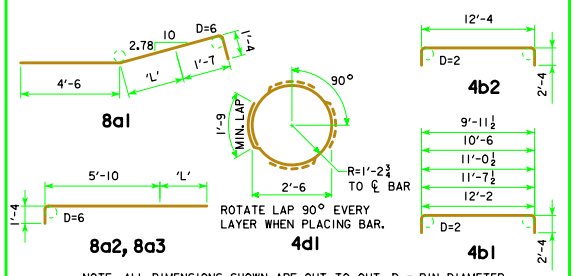
	R	BOLT CIRCLE DIAMETER
FOR 14"Φ POSTS (50'-100' SPANS)	7	1'-8
FOR 16"Φ POSTS (105'-130' SPANS)	8	1'-10

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



END ELEVATION

BENT BAR DETAILS (SHOP BEND ALL BARS)



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

REINFORCING BAR LIST - EPOXY COATED

ONE FOOTING

SIZE	SHAPE	TABULATED VALUE FOR L = 0				EACH 1'-0 OF L		
		NO.	LENGTH	WEIGHT	SPACING	NO.	LENGTH	WEIGHT
8a1		8	7'-5	158	SEE DETAIL	8	1'-0 (A)	21
8a2		14	7'-2	268	SEE DETAIL	14	1'-0 (A)	37
8a3		24	7'-2	459	SEE DETAIL	24	1'-0 (A)	64
4b1		10	Varies	105	1'-0	---	---	---
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	2 (B)	9'-6	13
		TOTAL lbs		2970		TOTAL lbs		158

(A) ADDITIONAL LENGTH TO BARS 8a1, 8a2, AND 8a3 FOR L > 0

(B) TWO IN EACH 1'-0 OF L ** BUNDLE TWO 4d1 CIRCULAR TIES IN TOP LAYER

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

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN

STEEL OVERHEAD SIGN TRUSS

SEPTEMBER, 2011

FOOTING DETAILS

50'-130' SPANS

SOST-17-11

STEELOVERHEADSIGNTRUSS.DGN - SOST-17-11 - THIS SHEET ISSUED 9-11.