

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: June 19, 2012
Date of Addendum: June 1, 2012

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
358	07-2187-226	Dynamic Message Signs	Black Hawk	ITS-218-7(226)--25-07	19jun358.a01

Notice: Only the bid proposal holders receive this addendum and responsibility for notifying any potential subcontractors or suppliers remains with the proposal holder.

Make the following change to the Plan Sheet A.1:

Tab. STANDARD BRIDGE PLANS:

Replace	SOST-06-11	Dated 09/11
With Attached	MODIFIED SOST-06-11	Dated 06/12
Replace	SOST-17-11	Dated 09/11
With Attached	MODIFIED SOST-17-11	Dated 06/12
Add Attached	SOST-18-11	Dated 06/12

Steel Overhead Sign Truss Standard Sheet SOST-01-11

Add the following text at the bottom of the list in the Index for Steel Overhead Sign Truss Standards: "SOST-18-11 Conduit Location Details"

Steel Overhead Sign Truss Standard Sheet SOST-06-11

Replace SOST-06-11 with a modified SOST-06-11 sheet that includes hand hole details, electrical inlet details and conduit location information. (See attached sheet.)

Steel Overhead Sign Truss Standard Sheet SOST-17-11

Replace SOST-17-11 with a modified SOST-17-11 sheet that includes a note stating that electrical conduit is required in footings supporting trusses with dynamic message signs. (See attached sheet.)

Steel Overhead Sign Truss Standard Sheet SOST-18-11

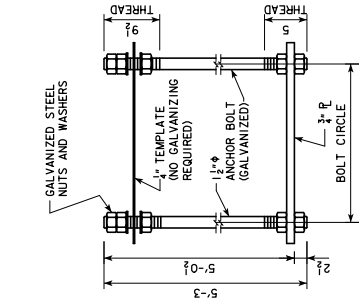
Add a new SOST-18-11 sheet that shows conduit location details in footings. (See attached sheet.)

GENERAL NOTES:

STRUCTURAL CONCRETE, CLASS C, SHALL BE USED FOR THE FOOTING.
 EXCAVATION FOR FOOTING SHALL BE TO NEAT LINES AND CONCRETE SHALL BE PLOTTED 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 NOTED. THE 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 TRUSS ASSEMBLY. 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.

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

TOP-OF-WALL ELEVATION IS TO BE SHOWN AS HIGH POINT OF FOUNDATION AS DIRECTED BY THE ENGINEER.



ANCHOR BOLT ASSEMBLY

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

CONCRETE PLACEMENT QUANTITIES
 (ONE FOOTING)
 EACH 1'-0" OF L

ITEM	QTY
WALL	5.71
FOOTING	16.52
TOTAL (C.Y.)	24.23

APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN

Iowa Department of Transportation
 Highway Division

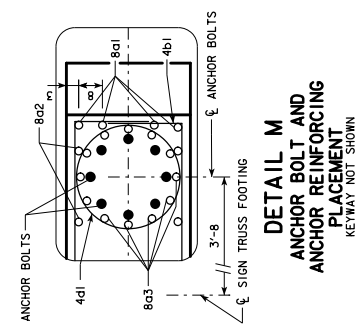
STEEL OVERHEAD SIGN TRUSS

SEPTEMBER, 2011

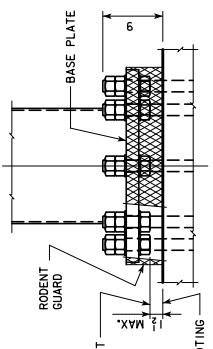
MODIFIED
 SOST-17-11

FOOTING DETAILS

50-130' SPANS

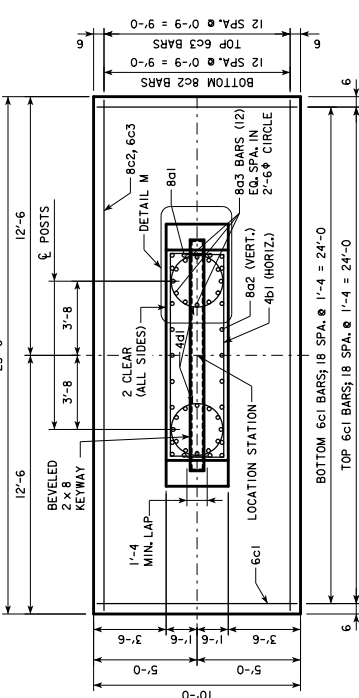


**DETAIL M
 ANCHOR BOLT AND
 ANCHOR REINFORCEMENT
 PLACEMENT**
 KEYWAY NOT SHOWN



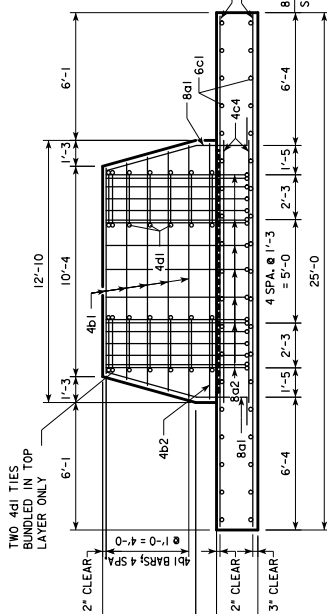
POST BASE DETAIL
 SHOWING THE RODENT GUARD

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



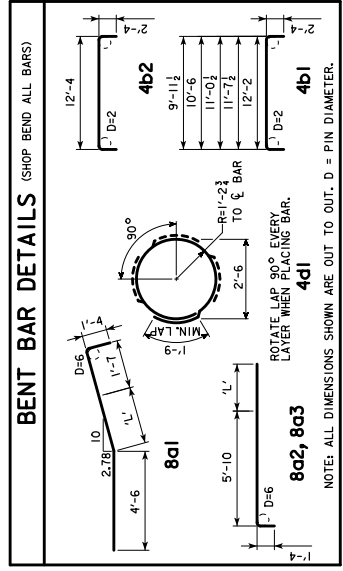
PLAN

ANCHOR BOLT ASSEMBLIES NOT SHOWN



SIDE ELEVATION
 ANCHOR BOLT ASSEMBLIES NOT SHOWN

* L SHALL BE LESS THAN 6'-0"



BENT BAR DETAILS (SHOP BEND ALL BARS)

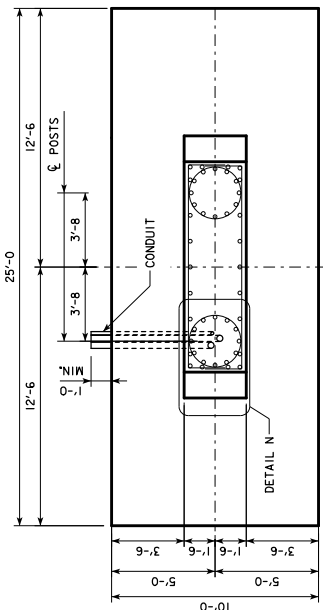
NOTE: ALL DIMENSIONS SHOWN ARE OUT TO OUT. D = PIN DIAMETER.

REINFORCING BAR LIST - EPOXY COATED
 ONE FOOTING

SIZE	SHAPE	NO.	LENGTH	WEIGHT	SPACING	NO.	LENGTH	WEIGHT
801		8	7'-5"	158	SEE DETAIL	8	1'-0" @	21
802		14	7'-2"	268	SEE DETAIL	14	1'-0" @	37
803		24	7'-2"	459	SEE DETAIL	24	1'-0" @	64
4b1		10	Varies	105	1'-0"	---	---	---
4b2		---	---	---	---	2 @	17'-0"	23
6c1		38	9'-6"	542	1'-4"	---	---	---
6c2		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 @	9'-6"	13
TOTAL 2970 lbs								TOTAL 158 lbs

(A) ADDITIONAL LENGTH TO BARS 801, 802, AND 803 FOR L > 0
 (B) TWO IN EACH 1'-0" OF L ** BUNDLE TWO 4d1 CIRCULAR TIES IN TOP LAYER

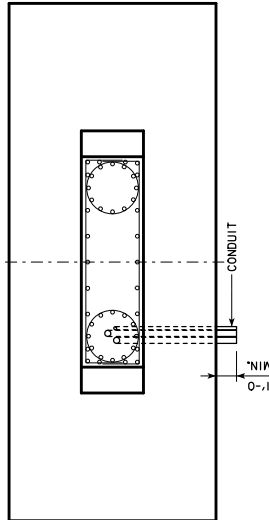
ADDENDUM:
 ELECTRICAL DETAILS
 ADDED



FOOTING PLAN FOR LEFT TRUSS SUPPORT

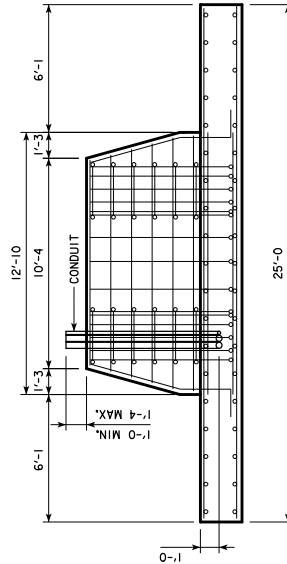
LOCATED AT MEDIAN FOR TYPICAL DESIGNS
ANCHOR BOLT ASSEMBLIES AND SELECTED REINFORCING BARS NOT SHOWN

TRAFFIC FLOW →



FOOTING PLAN FOR RIGHT TRUSS SUPPORT

LOCATED AT OUTSIDE SHOULDER FOR TYPICAL DESIGNS
ANCHOR BOLT ASSEMBLIES AND SELECTED REINFORCING BARS NOT SHOWN

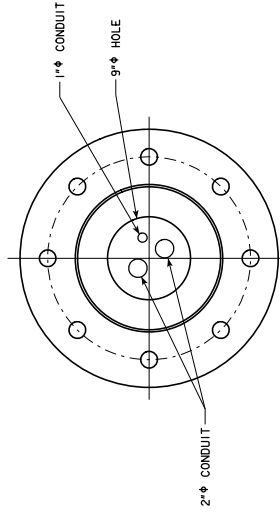


SIDE ELEVATION

ANCHOR BOLT ASSEMBLIES NOT SHOWN

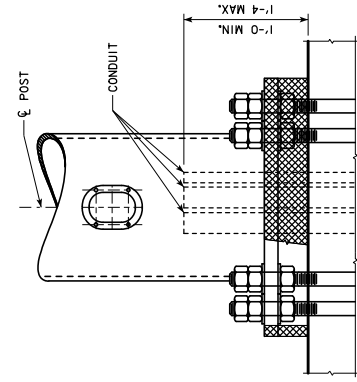
GENERAL NOTES:

FOR FOOTINGS SUPPORTING TRUSSES WITH DYNAMIC MESSAGE SIGNS, PLACE ONE CONDUIT AND TWO 2" CONDUIT WITHIN THE ANCHOR BOLT ASSEMBLY. THE CONDUIT SHALL BE PLACED WITHIN THE ANCHOR BOLT ASSEMBLY AND SHALL BE PLACED WITHIN THE ANCHOR BOLT ASSEMBLY. THE CONDUIT SHALL BE PLACED WITHIN THE ANCHOR BOLT ASSEMBLY. THE CONDUIT SHALL BE PLACED WITHIN THE ANCHOR BOLT ASSEMBLY.



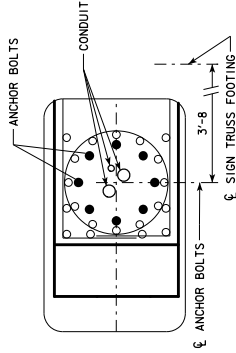
BASE PLATE PLAN

CONDUIT IS PRESENT ONLY IN POSTS WITH HAND HOLES



BASE SIDE VIEW

OPPOSITE OF TRAFFIC SIDE
NOT ALL ANCHOR BOLTS SHOWN



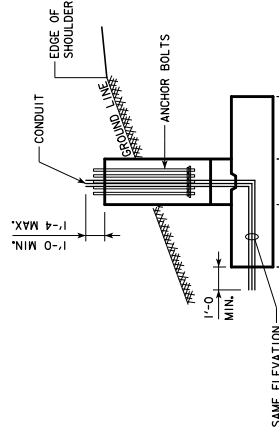
DETAIL N

LOCATION OF CONDUIT WITHIN ANCHOR BOLT CIRCLE

THIS SHEET FOR DMS TRUSSES ONLY

ELECTRICAL CONDUIT IS REQUIRED IN FOOTINGS SUPPORTING TRUSSES WITH DYNAMIC MESSAGE SIGNS.

NOTES: SEE THE FOLLOWING STANDARD SHEETS FOR ELECTRICAL ACCESS DETAILS IN SUPPORT POSTS FOR DMS TRUSS DESIGNS:
STANDARD SHEET SOST-06-11 FOR 14" POSTS (50'-100' TRUSS SPANS)
STANDARD SHEET SOST-07-11 FOR 18" POSTS (105'-130' TRUSS SPANS)



END ELEVATION

REINFORCING BARS NOT SHOWN

ADDENDUM:
THIS SHEET
ADDED

APPROVED BY BRIDGE ENGINEER
Thomas K. McQuinn

LATEST REVISION DATE

Iowa Department of Transportation
Highway Division
STANDARD DESIGN
STEEL OVERHEAD SIGN TRUSS
SEPTEMBER, 2011

CONDUIT LOCATION DETAILS
50'-130' SPANS
SOST-18-11