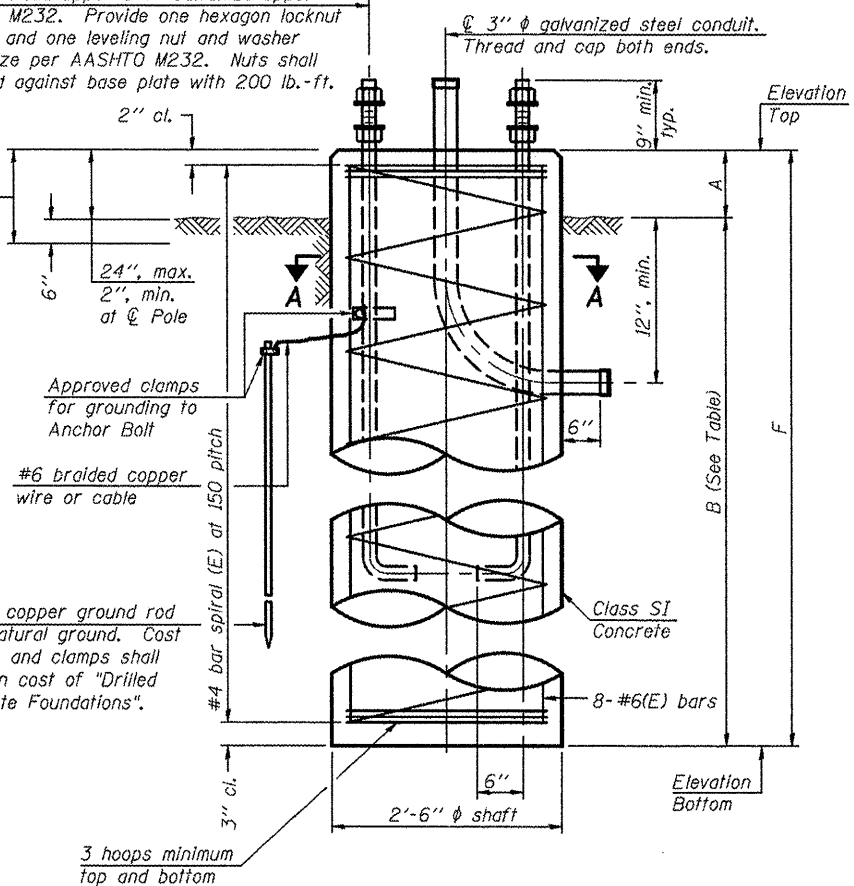


⊘ anchor rod. Thread upper 8". Galvanize upper 18" per AASHTO M232. Provide one hexagon locknut and washer (top) and one leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. torque.

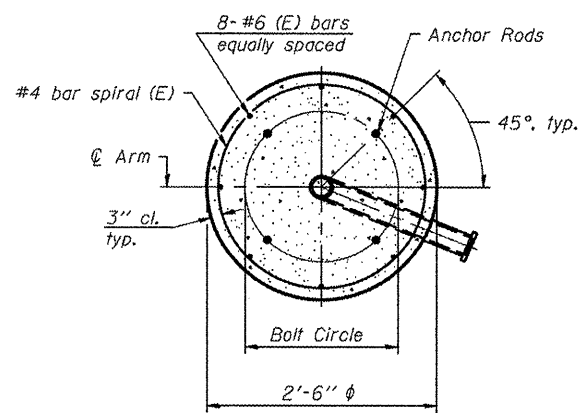
Limits of Bridge Seat Sealer (Cost included in "Drilled Shaft Concrete Foundations")



3/4" x 8'-0" copper ground rod driven into natural ground. Cost of rod, cable and clamps shall be included in cost of "Drilled Shaft Concrete Foundations".

FOUNDATION DETAILS

Typical, except conduit may only be required at one foundation. Provide conduit openings both poles.



SECTION A-A

Foundation Design Table	
Span (Ft.)	B (Ft.)
Span ≤ 45	9
45 < Span ≤ 65	10
65 < Span ≤ 80	11

FOUNDATIONS:

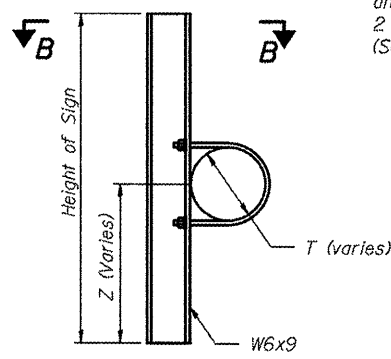
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

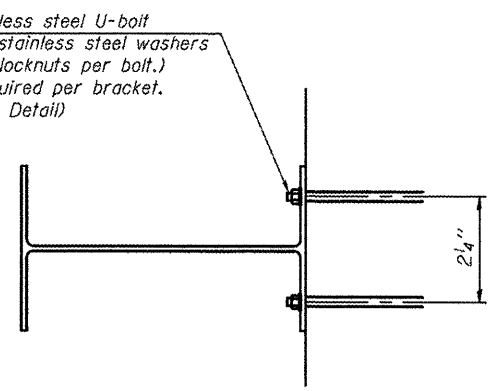
Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



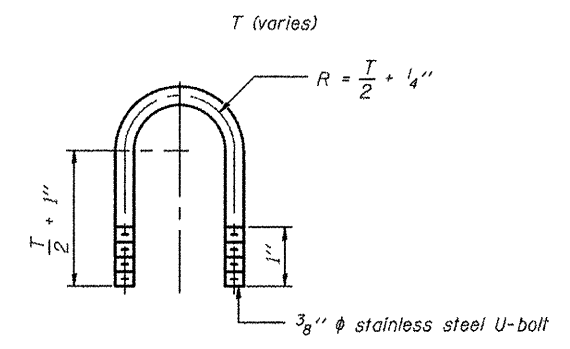
SIGN MOUNTING BRACKET
(Minimum 2 Brackets Each Sign)

Z - Variable - Signs Should be Mounted Level, and not Follow the Camber in the Crossbeam



SECTION B-B

6'-0" maximum spacing. 2'-0" maximum sign overhang beyond end bracket.



U-BOLT DETAIL
(Typical)

MONOTUBE - 2 9-15-11

FILE NAME =	USER NAME = ceer-lookjd	DESIGNED - JAL	REVISED -
ct\pwwork\pwwork\ceer-lookjd\0266557\0	46179-shr-detailed.dgn	DRAWN -	REVISED -
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -
PLOT DATE = 9/21/2011		DATE - 04/26/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MONOTUBE SIGN STRUCTURE
FOUNDATION AND SIGN BRACKETS

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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•VARIOUS COUNTIES			
••D-5 OVD SIN STR REPL 2012-06			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
*	**	Various	178
			178
CONTRACT NO. 46179			
ILLINOIS FED. AID PROJECT			