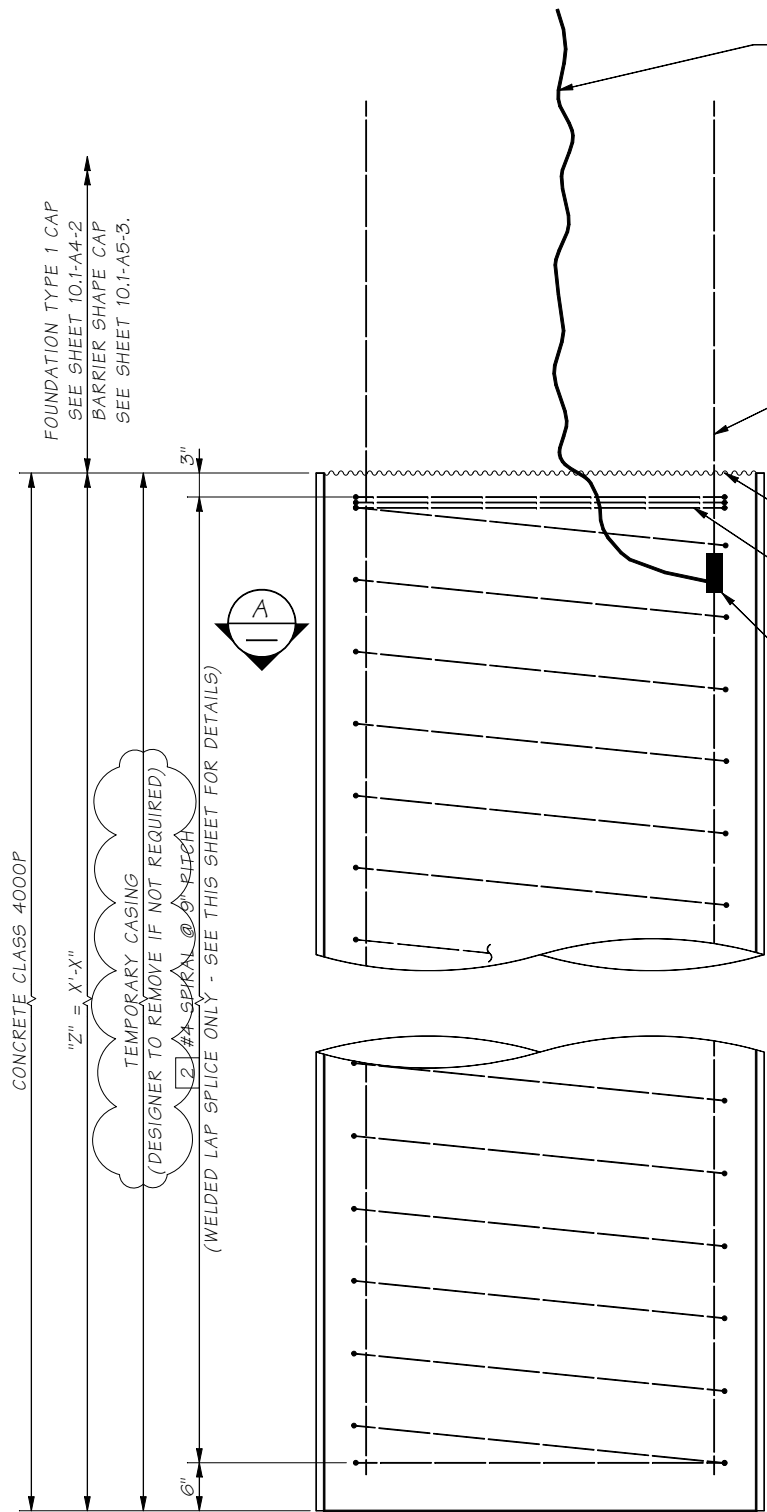


Last revised on : 05/06/2019

10-1-A4-1

SR JOB NO. SHEET



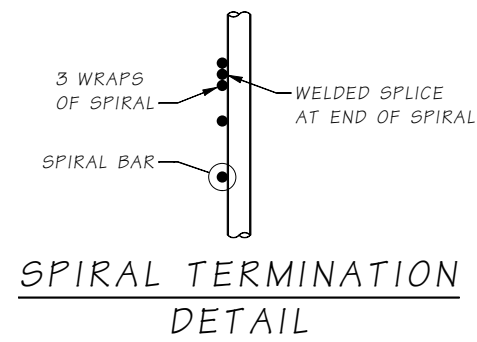
ELEVATION

GROUNDING CONDUCTOR NON-INSULATED #4 AWG STRANDED COPPER. PROVIDE 3'-0" MIN. SLACK. ROUTE CONDUCTOR TO GROUND WIRE TERMINAL SHOWN IN DETAIL 1 ON SHEETS 10.1-A1-2, 10.1-A2-2, OR 10.1-A3-2

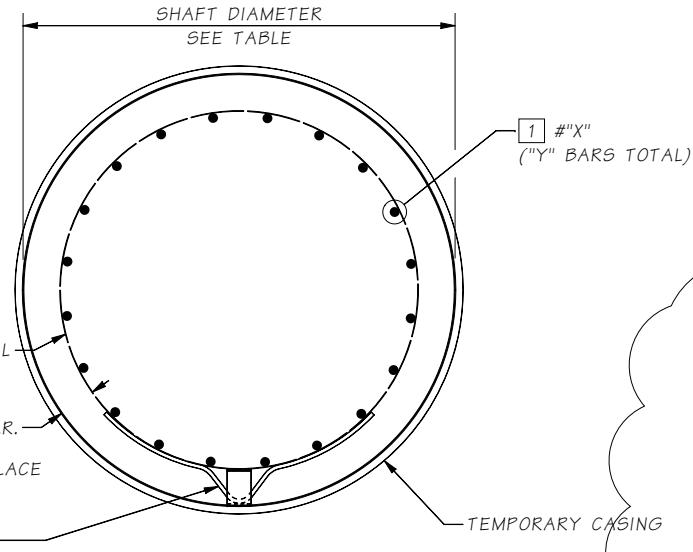
1 # "X" (TYP.)

CONSTRUCTION JOINT W/ ROUGHENED SURFACE
SEE "SPIRAL TERMINATION DETAIL" ON THIS SHEET

CLAMP CONDUCTOR TO REINFORCING WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE.

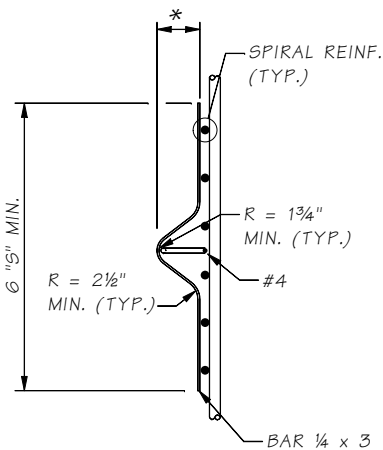


SPIRAL TERMINATION DETAIL



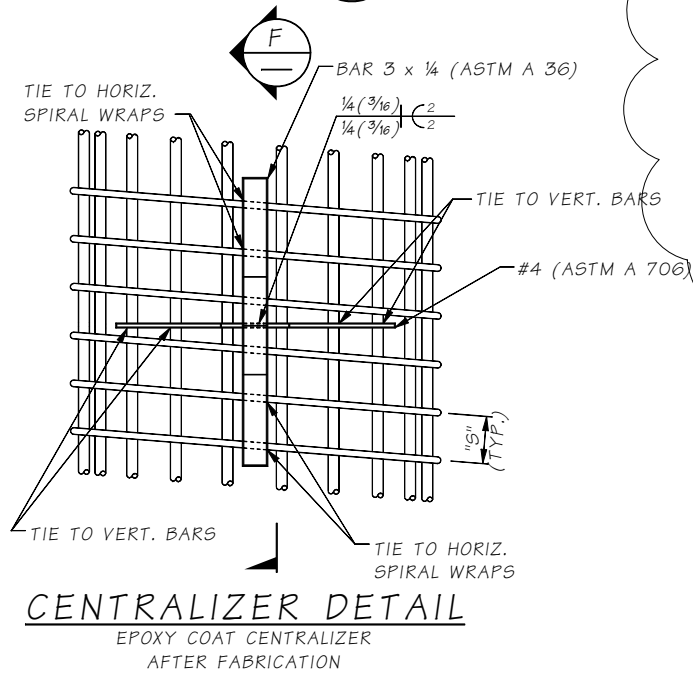
SECTION A

USE CENTRALIZER TO PLACE SHAFT REINFORCEMENT. SEE THIS SHEET FOR DETAILS AND NOTES.

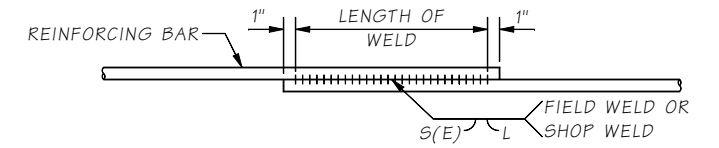


VIEW F

* MINIMUM CONCRETE COVER MINUS 1/2"



CENTRALIZER DETAIL
EPOXY COAT CENTRALIZER AFTER FABRICATION



WELDED LAP SPLICE DETAIL

WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E. FOR WELD DIMENSIONS, SEE TABLE BELOW.

DEFORMED BAR	WELD DIMENSIONS (IN.)		
	S	E	LENGTH (L)
#4	1/4	1/8	4

note to designer
remove foundation table and comment below for contract plans.

TYPE 1 FOUNDATION TABLE

	SPAN LENGTH ("S")	SHAFT DIAMETER	DEPTH ("Z")	FOUNDATION REINFORCEMENT	
				SIZE ("X")	NUMBER ("Y")
CANTILEVER SIGN	LESS THAN 20'-0"	4'-6"	11'-6"	9	12
	20'-0" TO 30'-0"	4'-6"	14'-0"	9	16
	30'-0" TO 35'-0"	4'-6"	18'-0"	9	20
SIGN BRIDGE	LESS THAN 60'-0"	4'-6"	14'-6"	9	18
	60'-0" TO 90'-0"	4'-6"	18'-0"	9	20
	90'-0" TO 120'-0"	5'-0"	20'-9"	11	15 BUNDLED PAIRS
	120'-0" TO 180'-0"	5'-6"	20'-9"	11	17 BUNDLED PAIRS

SHAFT DEPTH "Z" IS BASED ON ALLOWABLE LATERAL BEARING PRESSURE OF 2500 PSF OR MORE. DESIGNER TO VERIFY ABOVE ANGLE OF INTERNAL FRICTION & SOIL WEIGHT CORRESPONDS TO ALLOWABLE LATERAL BEARING PRESSURE OF 2500 PSF.

CENTRALIZER NOTES:

- CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH INORGANIC ZINC AFTER FABRICATION.
- EACH LEG SHALL BE TIED TO TWO VERTICAL BARS AND TWO SPIRAL WRAPS OR TWO HOOPS.
- SEE STD. SPEC. 6-19.3(5)B FOR SPACING REQUIREMENTS.

Bridge Design Engr.	M:\STANDARDS\Sign Bridges\MT_SIGN_BRIDGE_FND_TYPE_1.MAN						
Supervisor			REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By			10	WASH.			
Checked By			JOB NUMBER				
Detailed By							
Bridge Projects Engr.							
Prelim. Plan By							
Architect/Specialist	DATE	REVISION	BY	APPD			

BRIDGE AND STRUCTURES OFFICE



STANDARD MONOTUBE SIGN STRUCTURES
MONOTUBE SIGN STRUCTURES FOUNDATION TYPE 1 - SHAFT DETAILS

BRIDGE SHEET NO.
SHEET
OF
SHEETS