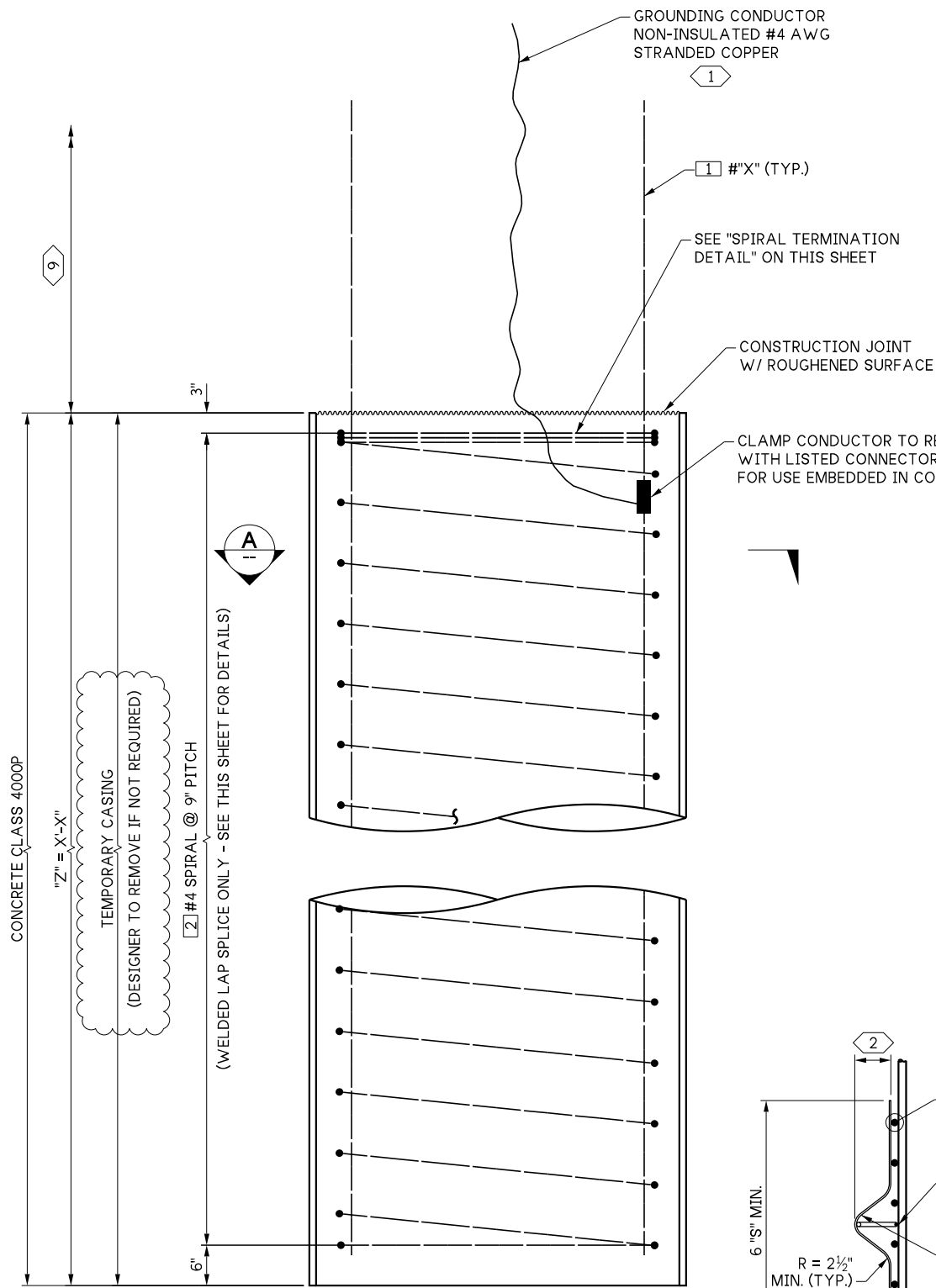
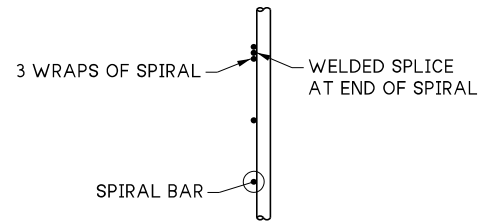


LAST REVISED: 08/19/2025

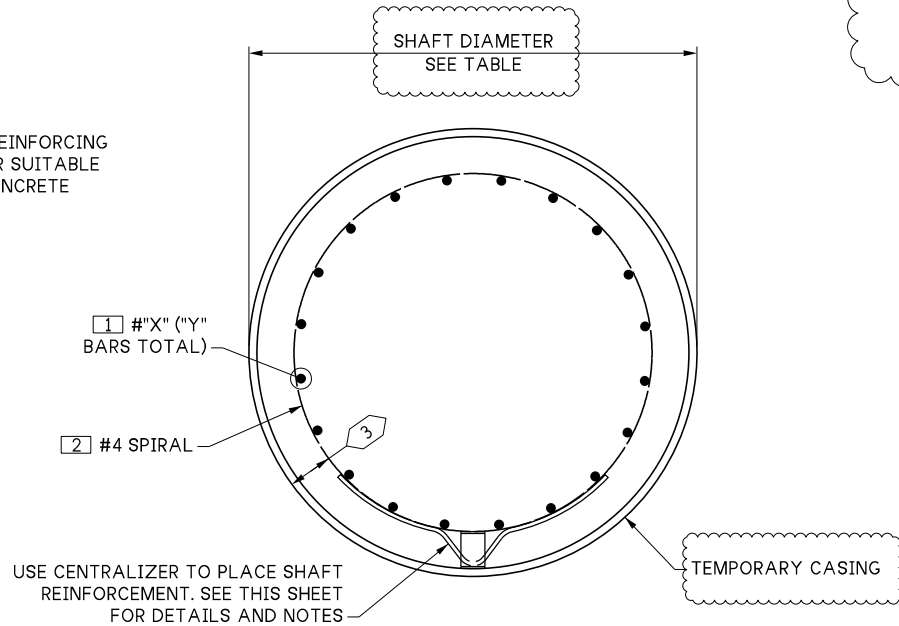
10.1-A4-1



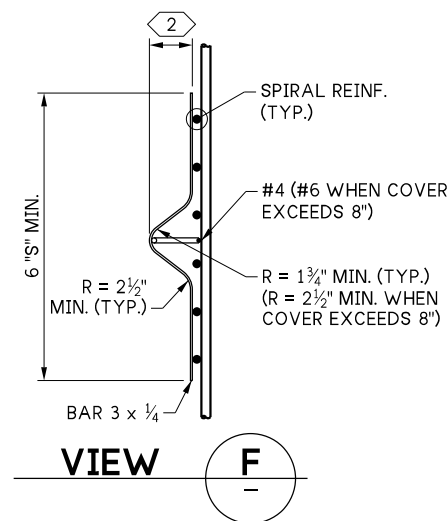
**ELEVATION**



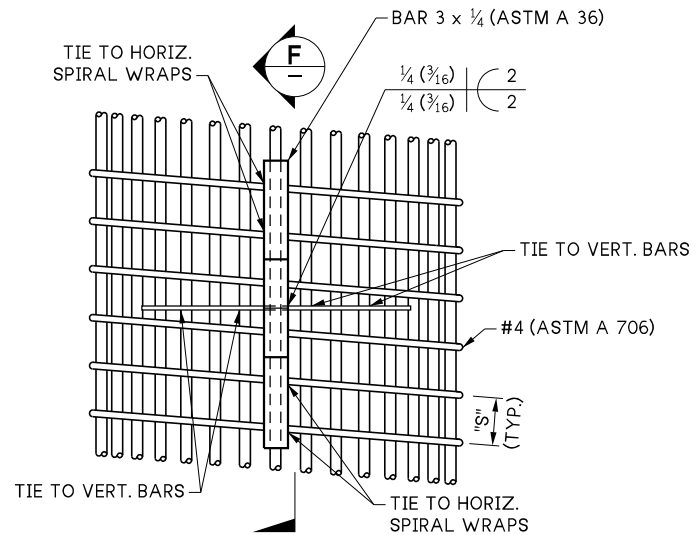
**SPIRAL TERMINATION DETAIL**



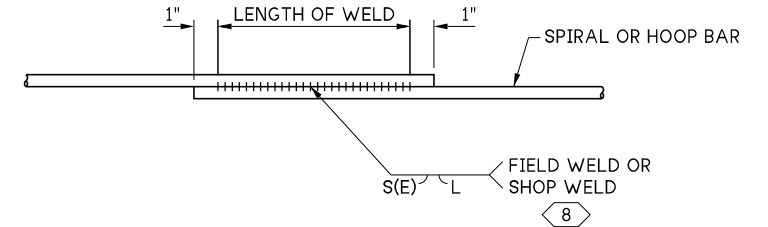
**SECTION A**



**VIEW F**



**CENTRALIZER DETAIL**



**WELDED LAP SPLICE DETAIL**

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

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

**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 ANGLE OF INTERNAL FRICTION & SOIL WEIGHT CORRESPONDS TO ALLOWABLE LATERAL BEARING PRESSURE OF 2500 PSF.

**KEY NOTES:**

- 1 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.
- 2 MINIMUM CONCRETE COVER MINUS 1/2".
- 3 SEE STD. SPEC. 6-19.3(5)c. FOR MINIMUM CONCRETE COVER.
- 4 SEE STD. SPEC. 6-19.3(5)b FOR SPACING REQUIREMENTS.
- 5 CENTRALIZERS SHALL BE EPOXY COATED OR PAINTED WITH PAINT CONFORMING TO STANDARD SPECIFICATION 9-08.1(2)c OR 9-08.1(2)f AFTER FABRICATION.
- 6 EACH LEG SHALL BE TIED TO TWO (2) VERTICAL BAR AND TWO (2) SPIRAL WRAPS OR TWO (2) HOOPS.
- 7 CAGECASTER® REBAR CAGE SPACERS BY FOUNDATION TECHNOLOGIES MAY BE USED IN LIEU OF DETAIL SHOWN. SPACING REQUIREMENTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. EACH LEG SHALL BE TIED TO A MINIMUM OF TWO (2) SPIRAL WRAPS OR HOOPS.
- 8 WELDING SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E FOR WELD DIMENSIONS. SEE SHAFT / HOOP OPTIONS TABLE THIS SHEET.
- 9 FOR FOUNDATION TYPE 1 CAP, SEE SHEET 10.1-A4-2. FOR BARRIER SHAPE CAP SEE SHEET 10.1-A5-3.

FILE NAME	10.1-A4-1_Monotube Sign Structure Foundation Type 1, 1 of 2.dgn			
BRIDGE DES. ENG.				
BRIDGE PROJ. ENG.				
SUPERVISOR				
DESIGNED BY				
CHECKED BY				
ENTERED BY				
PRELIM. PLAN BY				
ARCH. / SPEC.				
REVISION		DATE	BY	

REGION NO.	STATE
10	WASH
JOB NUMBER	
CONTRACT NO.	



SEE CERTIFICATION SHEET DATE	SEE CERTIFICATION SHEET DATE
STAMP BOX	STAMP BOX

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

PLAN REF NO
SHEET
OF
SHEETS