

**PUBLIC WORKS**  
Engineering

**DATE:** March 10, 2025

**TO:** PAUL ZACHARY,  
PUBLIC WORKS DEPUTY  
DIRECTOR

**FROM:** <sup>HAS</sup> H. SOMDECERFF,  
PUBLIC WORKS DESIGN  
MANAGER

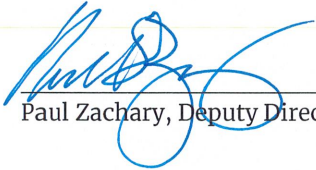
The Specification Review Committee recommends and asks the Public Works Deputy Director to approve the following:

1. Approved Modification to Standard Detail 603 - Signal Pole Footing Detail.  
Dimension tolerances have been added.  
Notes 2, 3, and 4 have been added.  
Length of anchor bolt exposure has been increased.  
Expansion material has been added.  
Vertical dimensions have been modified.

Please call me at (918) 596-7355 if you have any questions.

Thank you,

APPROVED:

  
Paul Zachary, Deputy Director

03-17-25  
Date

Cc: Specification Review Committee

1898 x 1898

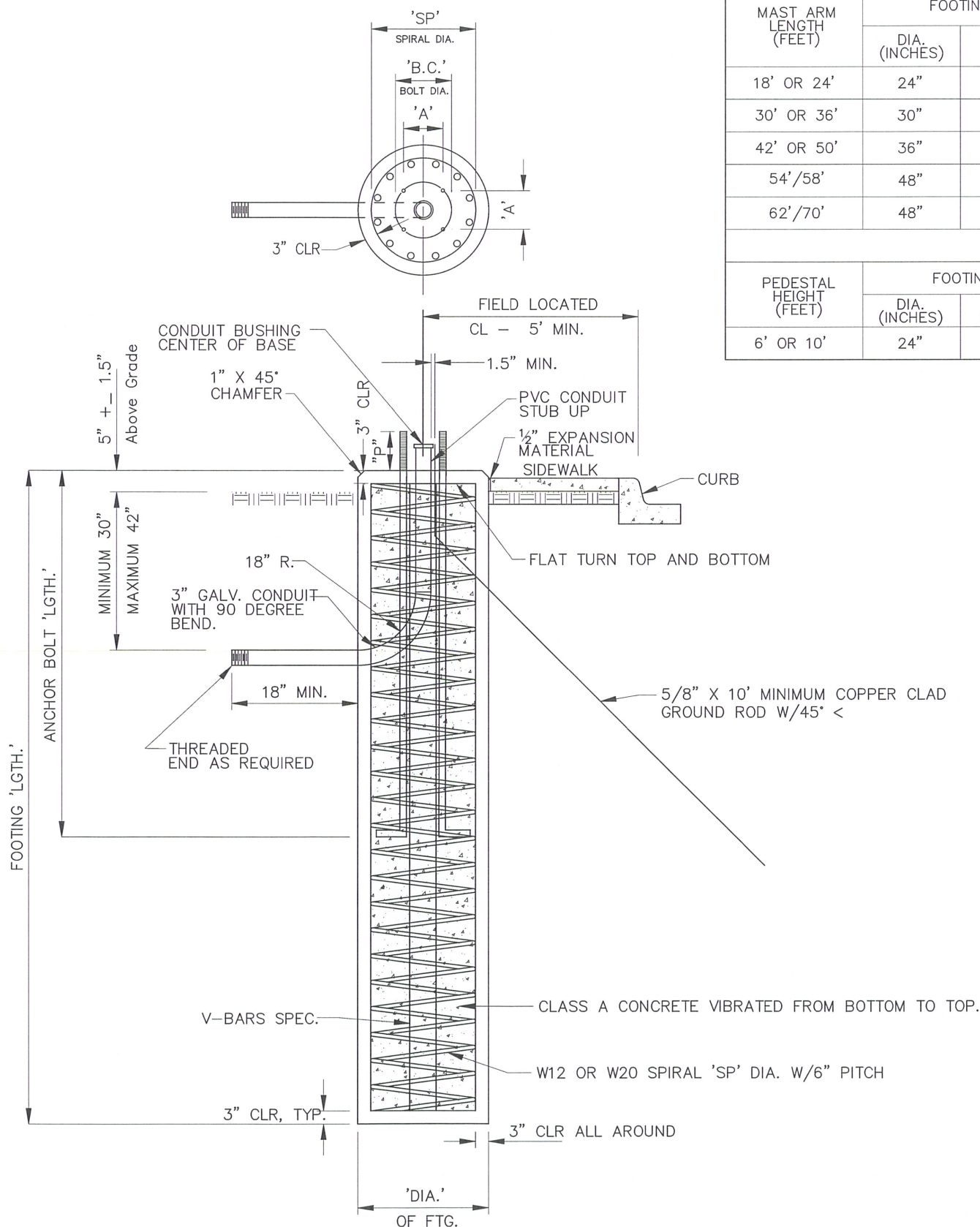
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# MAST ARM BASE AND PEDESTAL BASE

MAST ARM LENGTH (FEET)	FOOTING		RE-BAR			ANCHOR BOLTS (INCHES)			TEMPLATE (INCHES)				FOOTING DESIGN NO.
	DIA. (INCHES)	LGTH. (FEET)	"SP" (INCHES)	V-BARS	SPIRAL	DIA.	LGTH.	"P"	B.C.	SQ.#1	"A"	B. HOLE	
18' OR 24'	24"	9.0'	18"	6-#8	W-12	1.5"	54"	7.5"	16.5"	17"	11-11/16"	1.625"	S-18/24
30' OR 36'	30"	10.5'	24"	9-#8	W-12	1.5"	54"	7.5"	18.5"	19"	13-1/16"	1.625"	S-30/36
42' OR 50'	36"	12.0'	30"	10-#9	W-12	1.75"	84"	8.5"	20.5"	21"	14-1/2"	1.875"	S-42/50
54'/58'	48"	18.5'	42"	15-#10	W-20	1.75"	84"	9.5"	22.5"	23"	15-15/16"	2.00"	S-54/58
62'/70'	48"	18.5'	42"	15-#10	W-20	2.00"	90"	9.5"	26"	27"	18-3/8"	2.25"	S-62/70

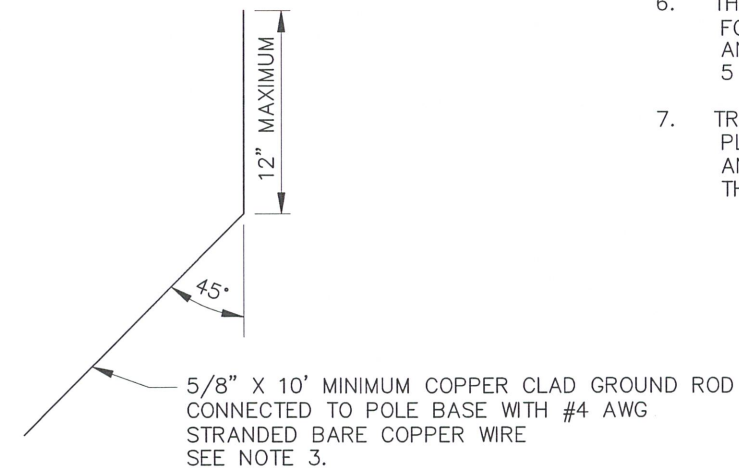
  

PEDESTAL HEIGHT (FEET)	FOOTING		RE-BAR				REINFORCING STEEL	STRUCTURAL CONC.	ANCHOR BOLTS (INCHES)			FOOTING DESIGN NO.	
	DIA. (INCHES)	LGTH. (INCHES)	"SP" (INCHES)	V-BARS	LGTH. (INCHES)	SPIRAL			W12 SPIRAL LGTH.	DIA.	LGTH.		"P"
6' OR 10'	24"	36"	18"	6-#8	30"	W-12	40 FEET	27 LBS.	0.35 C.Y.	3/4"	12"	6.5"	F-1



### NOTE:

1. POLE LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER PRIOR TO DRILLING
2. USE A MIN. 1/2" THICK STEEL H FRAME TEMPLATE WITH 6" MIN. CENTER HOLE OR APPROVED EQUAL.
3. A MINIMUM LENGTH OF 8FT OF THE GROUND ROD SHALL BE EMBEDDED INTO AND IN DIRECT CONTACT WITH SOIL. INCREASE THE OVERALL LENGTH OF THE GROUND ROD AS NEEDED.
4. A MINIMUM OF 3 FULL THREADS OF THE ANCHOR BOLTS SHALL EXTEND ABOVE THE TOP OF THE NUTS.
5. A BOTTOM TEMPLATE MAY BE USED ON THE ANCHOR BOLT ASSEMBLY TO HELP KEEP THE ANCHOR BOLTS IN PLACE.
6. THE PVC CONDUIT STUB UP SHALL BE CENTERED IN THE FOOTING WITH A MAX TOLERANCE OF PLUS OR MINUS 1/2", AND PLUMB WITH A MAX TOLERANCE OF PLUS OR MINUS 5 DEGREES OUT OF PLUMB.
7. TRAFFIC OPERATIONS PERSONNEL SHALL INSPECT FOR PROPER PLACEMENT OF GROUND ROD, CONDUIT, REINFORCING STEEL, AND PROPER ALIGNMENT OF ANCHOR BOLTS AND APPROVE THE INSTALLATION PRIOR TO POURING CONCRETE.



GROUND ROD DETAIL

PATH NAME: /E1/PARTS/STD/DGN-STD/603-signal-pole-foot-det.dgn RSB 02/11/2025

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISION</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISION	BY	DATE										<small>CITY ENGINEER</small>	<p>CITY OF TULSA, OKLAHOMA</p> <hr/> <p>SIGNAL POLE FOOTING DETAILS</p>
REVISION	BY	DATE												
<small>CITY TRAFFIC ENGINEER</small>		<small>DATE: FEBRUARY 2025</small>												
<small>STD. 603</small>														