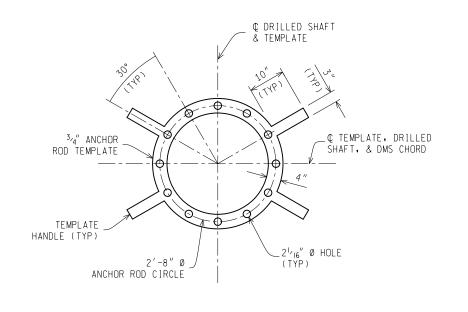
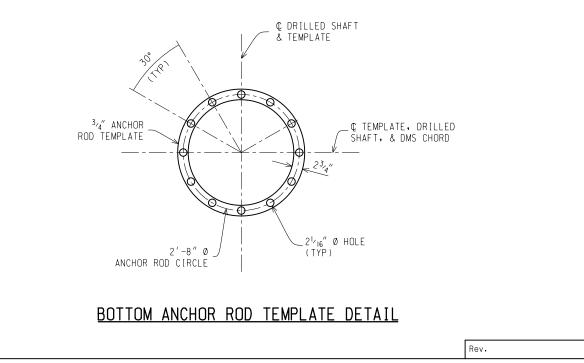


NOTES:

- 1. THE FINISHED GRADE FOR ROADSIDE SIGNS INSTALLED ON SLOPES IS THE UPSLOPE SIDE OF THE DRILLED SHAFT.
- 2. WELD VOG ANCHOR ROD CAGE BAR REINFORCEMENT IN ACCORDANCE WITH AWS D1.4 USING E8018 OR E9018 ELECTRODES. SEE SHEET 6 OF 6 FOR WELD DETAILS.
- 3. SUBSURFACE AND GROUNDWATER INFORMATION WILL BE OBTAINED FROM THE SOIL BORING LOG INFORMATION.
- 4. VO6 ANCHOR ROD CAGE BAR REINFORCEMENT SHALL MEET THE REQUIREMENTS OF ASTM A706 IF WELDED TO THE ANCHOR RODS.
- 5. TOP AND BOTTOM ANCHOR ROD TEMPLATES MAY BE FABRICATED FROM MULTIPLE PARTS USING CJP WELDS LOCATED A MINIMUM OF 2" CLEAR OF ANCHOR ROD HOLES.
- 6. ANCHOR RODS SHALL BE IN ACCORDANCE WITH SUBSECTION 908.14 OF THE MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.



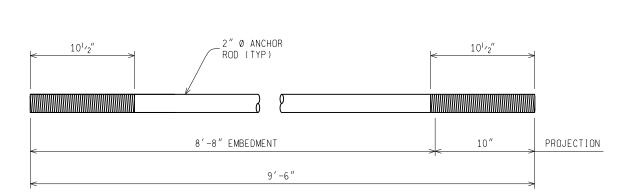
TOP ANCHOR ROD TEMPLATE DETAIL



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ANCHOR ROD DETAIL

FOUNDATION CHART							
SOIL	SOIL CONDITION		DIAMETER	DEPTH	CONCRETE		
TYPE	*Su	** N60	(in)	"D" (f†)	(cyd)		
LOW SAND	-	5 < N60 < 10		26	12.1		
MED SAND	-	10 < N60< 20		22	10.2		
HIGH SAND	1	N60 > 20	48	20	9.3		
LOW CLAY	400 < Su < 1000	-	40	37	17.2		
MED CLAY	1000 < Su < 2000	_		21	9.8		
HIGH CLAY	Su > 2000	_		17	7.9		

* Su = Undrained shear strength of cohesive soils. (lbs/ft2)

** N60 = SPT blow count corrected for hammer efficiency. (blows/ft)
(ASTM testing procedure D1586)

	<pre>MISCELLANEOUS QUANTITI (FOR INFORMATION ONLY) * STEEL WEIGHT = 16.398 Lbs CONDUIT. 1 INCH = 8.5 Ft CONDUIT. 3 INCH = 10.5 Ft CONDUIT. 1 1/2 INCH = 10.0 Ft ** SUBSTRUCTURE CONCRETE = 0.465 CY/Ft STEEL REINFORCEMENT = 70 Lb/Ft SAFETY GATE = 1 E0.</pre>	ES					
GI VE AN LA CC TH *** S	 * STEEL WEIGHT INCLUDES COLUMN, CHORDS, DIAGONALS, VERTICALS, GUSSET PLATES, BASE PLATES, HORIZONTAL PLATFORM SUPPORTS, VERTICAL PLATFORM SUPPORTS, STIFFENER PLATES, U BOLTS, ANCHOR BOLTS, BOLTS FOR ALL OTHER CONNECTIONS, LADDER RUNGS, LADDER BARS, AND KICK PLATE. COLUMN HEIGHT IS BASED ON A 32 FT DIMENSION FROM THE TOP OF THE BASE PLATE TO THE CENTER OF THE BOTTOM CHORD. ** STEEL REINFORCEMENT WEIGHT IS IN TERMS OF LBS/FT OF DRILLED SHAFT LENGTH. THIS DOES NOT INCLUDE THE REINFORCING BARS FOR THE MEDIAN BARRIER. 						
		Rev.					
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MICHIGAN DEPARTMENT OF TRANSPORT	TION (SPECIAL DETAIL) FHWA APPROVAL DATE PLAN DATE	ITS-032-A SHEET 5 of 6					

