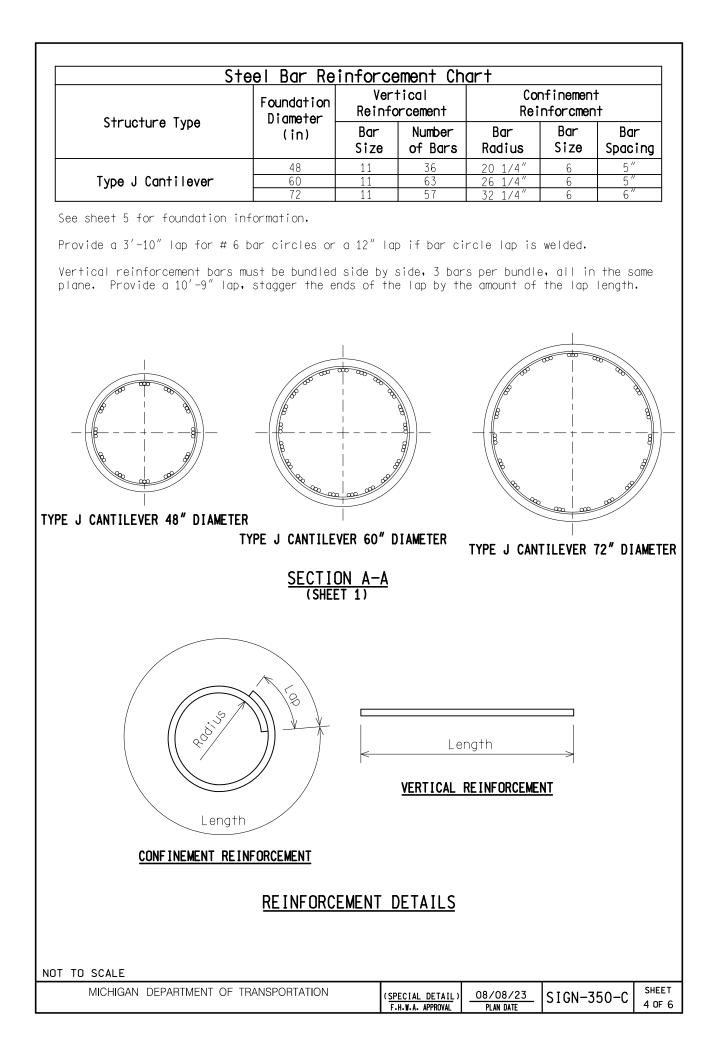


	- <u>- </u> <u>-</u>						
	Embedment 10"						
	ANCHOR BOLT DETAIL 16 Anchors required, Provide 3 nuts and 3 washers per anchor bolt,						
NOTE	ES:						
1.	Steel reinforcement must be per MDOT Standard Specifications for Construction.						
2.	Anchor bolts, nuts, and washers must be per section 908.14 of the MDOT Standard Specifications for Construction.						
3.	Diameter of bolt holes in template must be $1/16^{\prime\prime}$ larger than anchor bolt diameter.						
4.	The template and handles must be well supported, horizontally level and firmly anchored in place a minimum of 24 hours after concrete placement is complete.						
5.	During concrete placement, avoid displacing the anchor bolts. Concrete must be in accordance with MDDT Standard Specifications For Construction, Subsection 810.03.J.						
6.	Hammering on the anchor bolts or template will not be allowed.						
	After template is removed, thread nuts on to bolt flush with the bolt end to protect threads until sign support is erected.						



Cantilever Foundation Chart								
Cantilever	Soil Type	Soil Condition		Diameter	Depth	Concrete		
Туре		Suc	N	(in)	"D" (ft)	(cyd)		
	Low Sand	_	5< N < 10	48*	37	17.3		
	Med Sand	_	$10 \le N < 20$		33	15.4		
	High Sand	_	N ≥ 20		31	14.5		
	Low Clay	400< Suc <1000	-		52	24.3		
	Med Clay	1000≤ Suc <2000	-		31	14.5		
J	High Clay	Suc ≥ 2000	-		27	12.6		
	Low Sand	_	5< N <10		45	32.8		
	Med Sand	_	$10 \le N < 20$	60**	38	27.7		
	High Sand	-	N ≥ 20		38	27.7		
	Low Clay	400< Suc <1000	-	72**	49	51.4		
	Med Clay	1000≤ Suc <2000	-		35	36.7		
	High Clay	Suc ≥ 2000	_		31	32.5		

* Use of 48"Ø drilled shaft foundation is for arm lengths with sign dimensionsas shown in the graph below.

** 60" and 72" diameter drilled shaft foundation provided for information only.

A site specific foundation design is required if the maximum sign area for thespecified arm length exceeds that shown in the graph below.

Suc = ultimate shear in cohesive soil (lbs/sq ft)

N = number of blows / foot of penetration(ASTM Testing Procedure D1586)

NOTE:

If soils with spt n-values greater than 50 bpf dominate the lower 1/2, or more, of a drilled shaft, or if rock sockets for the drilled shafts are required, then a detailed site specific design for the drilled shaft foundation is required.

