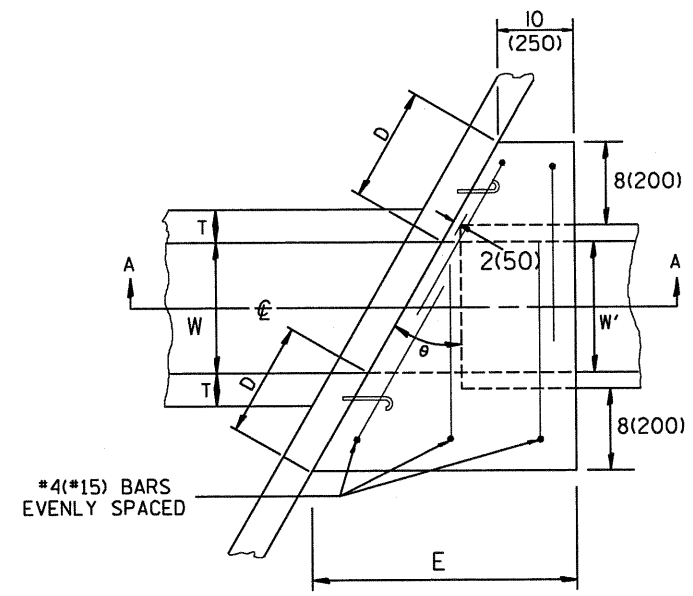
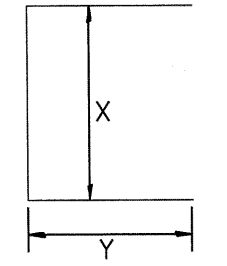


SECTION A - A

END VIEW



PLAN VIEW



#4(*15) BAR
FIVE REQUIRED
PER COLLAR

$$D = \frac{8(200)+T}{\cos\theta}$$

$$E = [W+6(410)+2T]+an\theta+10(250)$$

$$X = B-8(200)$$

$$Y = \frac{W/2 + T + 4(100)}{\cos\theta} + 7/2(190)$$

LOCATION	EXIST. BOX		PROP. BOX			CLASS SI CONCRETE CU. YD. (m ³)	EACH COLLAR					REBARS LBS.(KG)	3/4(M20) EXPANSION BOLTS EACH	EXT. LENGTH		END SEC.	SKEW ANGLE θ	
	W	H	W'	H'	T		A	B	E	X	Y			LT.	RT.			
	206+25	3	3	3	3		0.33	2.0	5'-0"	5'-0"	5'-10"			4'-4"	3'-8"			39.0

QUANTITIES		
CALC. BY: _____	DATE: _____	
CHECKED BY: _____	DATE: _____	
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION		
01-01-97	RENUM. J-12.06, NEW REVISION BOX, REVISED	T.P.
10-16-06	TITLE BOX, ADDED QUANTITY CALCULATION BOX REVISED TO 2007 SPEC.	M.A.

GENERAL NOTES

- The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
- Expansion bolts shall consist of approved expansion anchors, and 3/4(M20) hook bolts which conform to section 1006.08. These bolts shall extend at least 8(200) into the new concrete.

All dimensions are in inches (millimeters) unless otherwise noted.