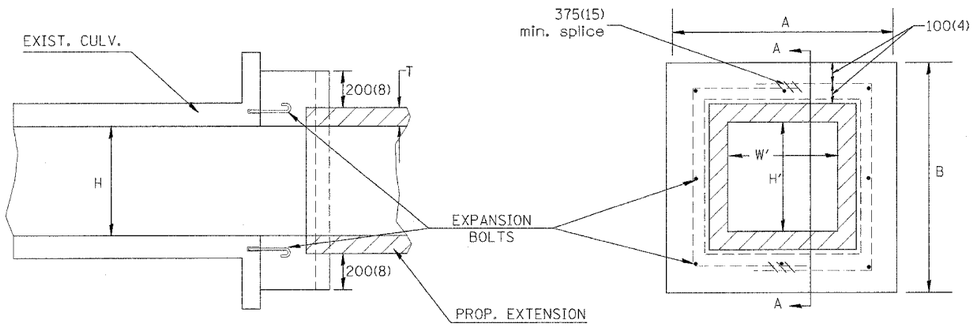
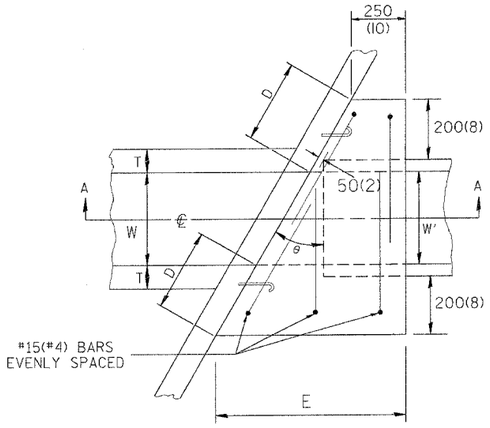
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315/317	•••	FULTON	684	263
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

••• 181,(18BRY&18BRY-1)BR,18B-1
CONTRACT# 88753

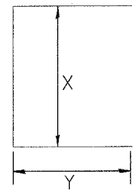


SECTION A - A



END VIEW

PLAN VIEW



#15(#4)□BAR
FIVE REQUIRED
PER COLLAR

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

$E = [W+410(16)+2T]\tan\theta+250(10)$

$X = B-200(8)$

$Y = \frac{W/2+T+100(4)}{\cos\theta}+190(7\frac{1}{2})$

LOCATION	EXIST. BOX		PROP. BOX			EACH COLLAR: CLASS SI CONCRETE m^3 (CU. YD.)	A	B	E	X	Y	REBARS KG(LBS.)	M20(¾) EXPANSION BOLTS EACH	EXT. LENGTH		END SEC.	SKEW ANGLE θ
	W	H	W'	H'	T									LT.	RT.		

DESIGNER NOTES:
1. ADD DISTRICT SPECIAL PROVISION.

QUANTITIES

CALC. BY: _____ DATE:

CHECKED BY: _____ DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

DGN-ONLY

GENERAL NOTES

1. 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.

2. Expansion bolts shall consist of approved expansion anchors, and M20(¾) hook bolts which conform to section 1006.08. These bolts shall extend at least 200(8) into the new concrete.

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

DATE	REVISIONS	BY
1-1-97	RENUM. J-12.06, NEW REVISION BOX,	T.P.
	REVISED TITLE BOX, ADDED QUANTITY	
	CALCULATION BOX.	

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

PRECAST SKEWED BOX CULVERT EXTENSION COLLAR

CADD STD. NO. 540106-D4

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

DATE $$DATE$$ CHECKED BY

540106-D4