



REINFORCEMENT

									EAC	CH COLL	AR			
	EXIST. BOX		PROP. BOX							CLASS SI CONCRETE	REBAR	3/4 (M20) EXPANSION	SKEW ANGLE	
LOCATION	W	Н	w'	H′	Т	А	В	E	Х	Y	CU. YD.	POUND	BOLTS EACH	6
NO. I	4′	4′	4′	4'	5 "	6'-2"	6′-2′′	7′-10 ′′	5′-10 ′′	4'-8''	3.69	112	8	45°
NO. 2	3′	5′	3'	5′	6"	5'-4''	7'-4''	3′-0 ′′	7′-0′′	3′-5″	1.97	56	10	15°
						TOTALS			5.66	168	18			

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

 $E = [W+16+2T]+an\theta+18$

X = B-4

 $Y = \frac{W/2 + T + 8}{\cos \theta} + 7 \frac{1}{2}$

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 3/4 (M20) hook bolts which conform to section 1006.08.
 These bolts shall extend at least 8" into the new concrete.

All dimensions are in inches unless otherwise noted.

			 			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
			 <u> </u>	STATE OF ILLINOIS	SKEWED PRECAST BOX CULVERT EXTENSION COLLAR	639	D4 CULVERT REPAIR 2008		33 11
ļ				DEPARTMENT OF TRANSPORTATION	NOT TO SCALE	 	ILL THOIS SED. A	CONTRAC	CT NO. 68704