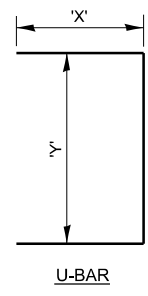


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS.
 MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.



LOCATION	EXISTING CULVERT SIZE FT x FT	PRECAST CULVERT EXTENSION FT x FT	EXTENSION COLLAR		U-BAR		CONC COLLAR CU YD	REINFORCEMENT BARS POUND	3/4" DIA EXPANSION BOLTS EACH
			WIDTH	HEIGHT	'X'	'Y'			
			IN	IN	IN	IN			

QUANTITIES ARE FOR ONE SIDE ONLY

COLLAR DETAIL (PRECAST BOX CULVERT EXTENSION OF BOX CULVERT)

540-5

MODEL det 3 dwt.tbl
 FILE Name: p:\uill\scw\benley.com\PI\DOT\Documents\DOT Offices\Dir\dr. 3\Projects-Carcy Detail\03 Detail Revisions 2023\500-599 STRUCTURES.dgn

USER NAME = Anthony.Grunstad	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 9/27/23	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				