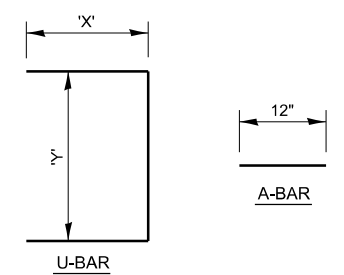


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS. MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.



LOCATION	EXISTING CULVERT SIZE FT x FT	PIPE DIMENSION			PIPE AREA SQ FT	EXTENSION COLLAR		A-BAR 380 IN	U-BAR		CLASS SI CONC COLLAR CU YD	REINFORCEMENT BARS POUND	3/4" DIA EXPANSION BOLTS EACH
		SPAN IN	RISE IN	EQUIV IN		WIDTH IN	HEIGHT IN		'X' IN	'Y' IN			
		QUANTITIES ARE FOR ONE SIDE ONLY											

COLLAR DETAIL (A.D.E. CMP EXTENSION OF BOX CULVERT)

540-12

MODEL det 3 detailb
FILE Name: p:\illinois\caw_bentley.com\PI\DOT\Documents\DOT_offices\DH\dtr_3\Projects-Carcy_Detail\03_Detail_Revision\2023\500-599_STRUCTURES.dgn

USER NAME = Anthony.Grunstad	DESIGNED -	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.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO.											
ILLINOIS FED. AID PROJECT											