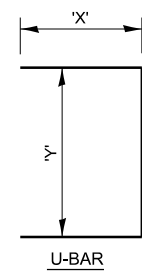


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.
 MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS



U-BAR

A-BAR

QUANTITIES ARE FOR ONE SIDE ONLY

LOCATION	EXISTING CULVERT SIZE	PIPE DIMENSION	PIPE AREA	EXTENSION COLLAR		A-BAR			U-BAR			CLASS SI CONC COLLAR	REINFORCEMENT BARS	3/4" DIA EXPANSION BOLTS
				WIDTH	HEIGHT	12	'X'	'Y'						
	DIA IN	DIA IN	SQ FT	IN	IN	IN	IN	IN	CU YD	POUND	EACH			

COLLAR DETAIL (R.C.C.P. EXTENSION OF PIPE CULVERT)

542-1

MODEL det 3 detailb
 FILE Name: p:\w\sc\aw\benley.com\PIV\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