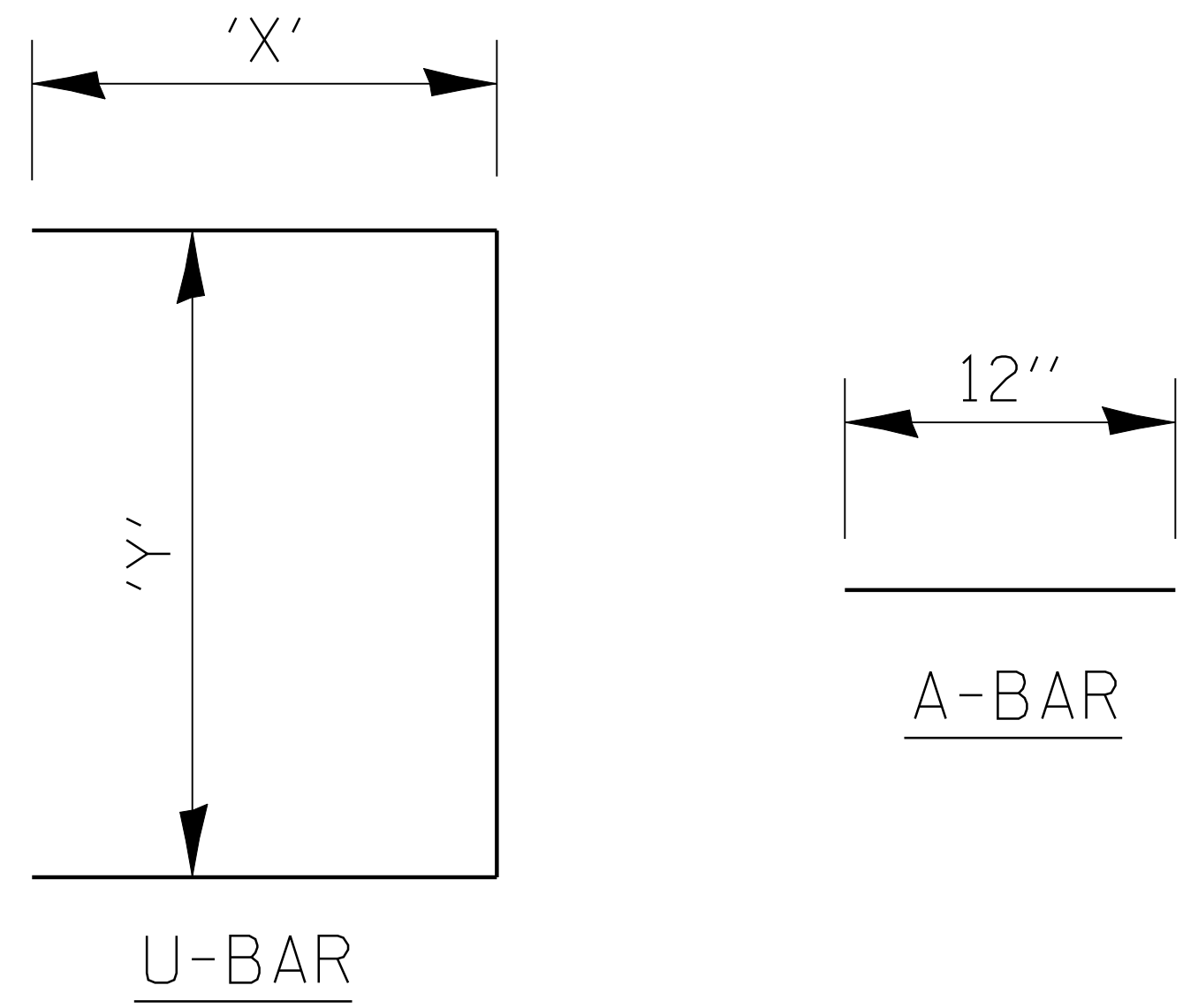


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. BOLTS SHALL BE DRILLED IN THE CENTER OF THE EXISTING BOX CULVERT BARREL WALLS.
 MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS.



QUANTITIES ARE FOR ONE SIDE ONLY

LOCATION	EXISTING CULVERT SIZE FT. x FT.	PIPE DIMENSION DIA. IN.	PIPE AREA SQ. FT.	EXTENSION COLLAR		A-BAR 305 IN.	U-BAR		CLASS SI CONC. COLLAR CU. YD.	REINFORCEMENT BARS POUND	3/4" DIA. EXPANSION BOLTS EACH
				WIDTH IN.	HEIGHT IN.		'X' IN.	'Y' IN.			

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