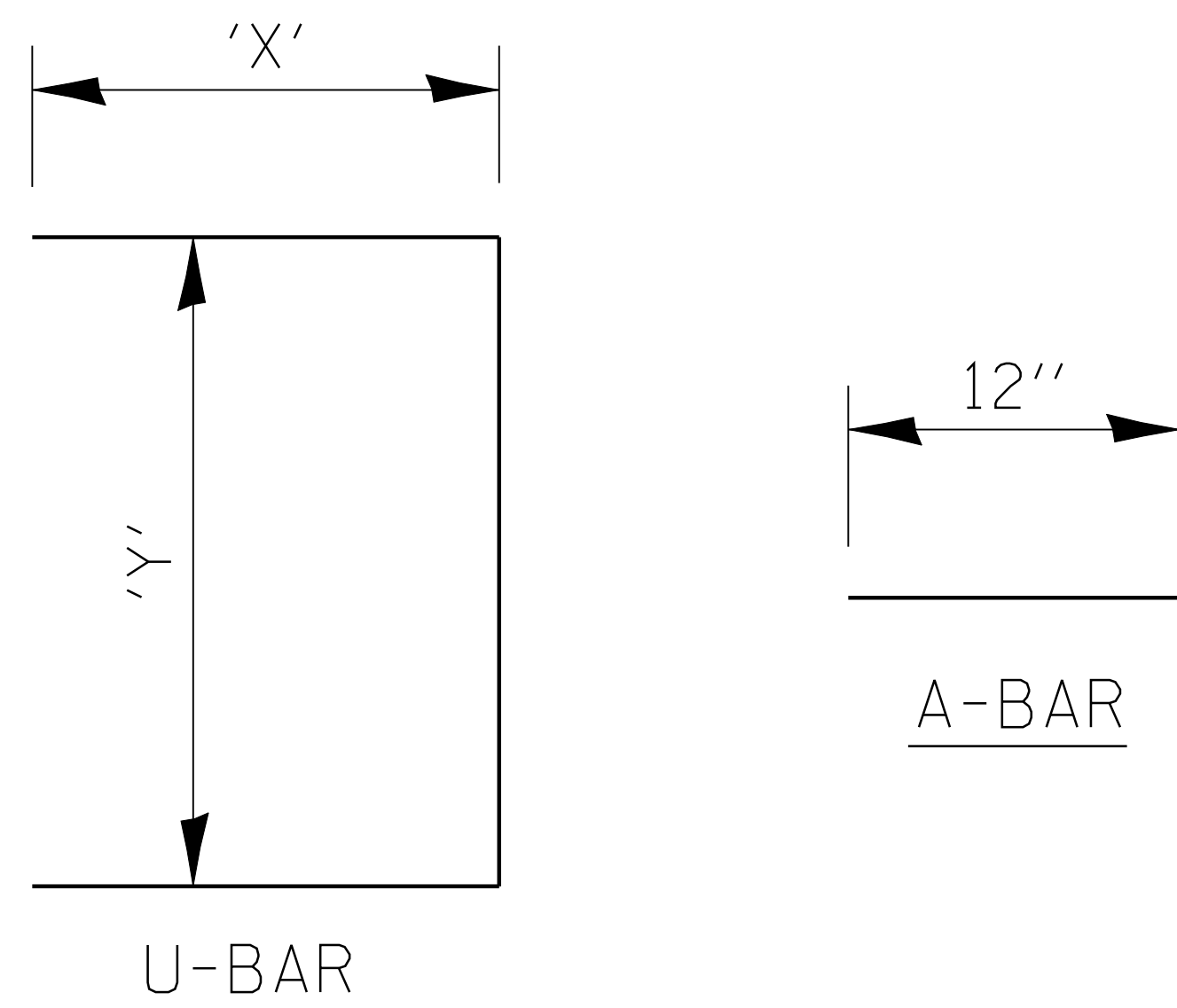


EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIA. HOOKED BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE.

MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS



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

COLLAR DETAILS (CMP EXTENSION OF PIPE CULVERT)