



U-BAR

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		QUANTITIES ARE FOR ONE SIDE ONLY		
			WIDTH	HEIGHT	'X'	'Y'	CONC COLLAR CU YD	REINFORCEMENT BARS POUND	3/4" DIA EXPANSION BOLTS EACH
			IN	IN	IN	IN			

COLLAR DETAIL (PRECAST BOX CULVERT EXTENSION OF BOX CULVERT)