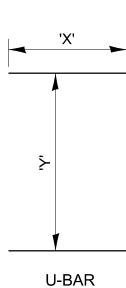
COLLAR DETAIL (PRECAST BOX CULVERT EXTENSION OF BOX CULVERT)



EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND ¾" 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 CERTIFIRED PROOF LOAD = 4,080 LBS.

U-BAR

'Y'

IN

'X'

IN

CONC

COLLAR

CU YD

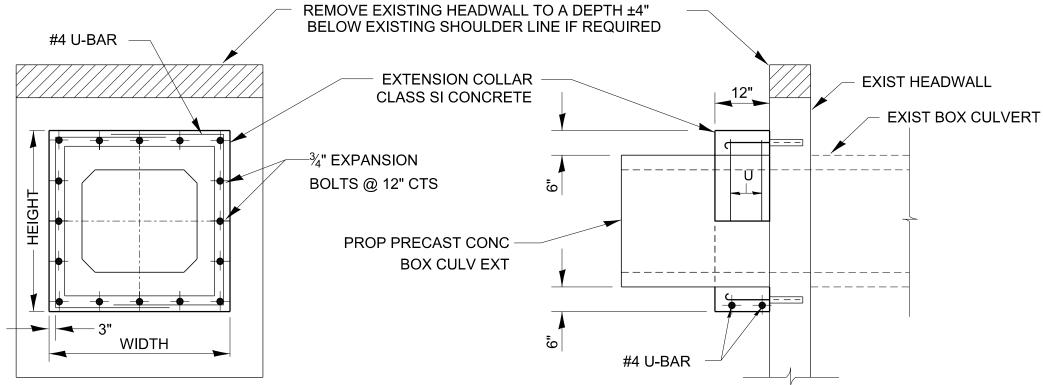
EXTENSION

COLLAR

IN

EXTENSION WIDTH HEIGHT

IN



EXISTING PRECAST

FT x FT

LOCATION CULVERT CULVERT

SIZE

FT x FT

540-5

¾" DIA EXPANSION BOLTS
EACH

QUANTITIES ARE FOR ONE SIDE ONLY

REINFORCEMENT

BARS

POUND