CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS

Bill of Materials

EXPANSION | CONCRETE REINF. DIMENSIONS U Bar h Bar BOLTS COLLAR BARS STATION No. No. Length No. Cu. Yd LBS 387+55 6′-8" 4'-25 4 28 1'-6" 12 1.34 68.36 Total 12 1.34 68.36 All h Bars 18 Long

Existing Box culvert Box Sulvert Box Sulve

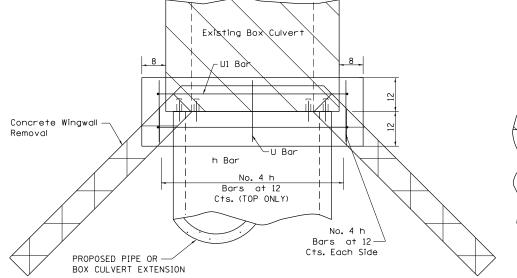
General Notes

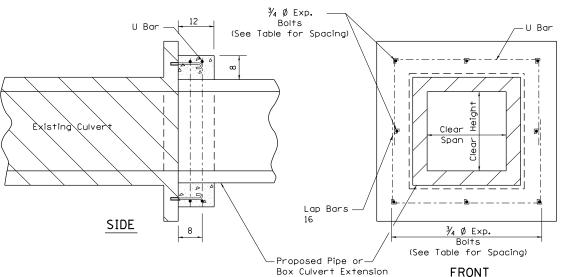
Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

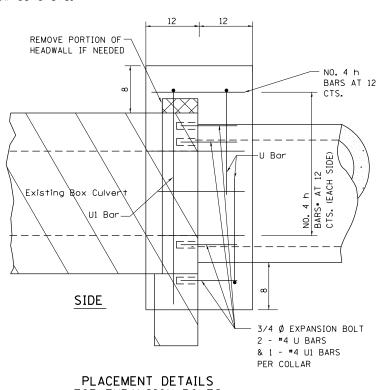
Reinforcement bars shall conform to Section 508 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic yard for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per pound for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 8 inches into the new concrete.

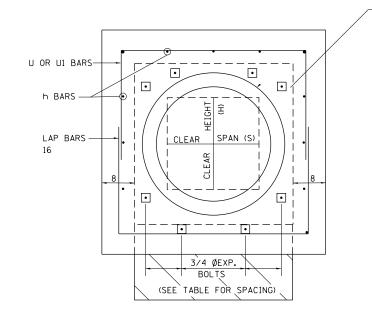
Proposed Pipe or Box Culvert Extension PLAN OF CULVERT WITH STRAIGHT HEADWALL ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



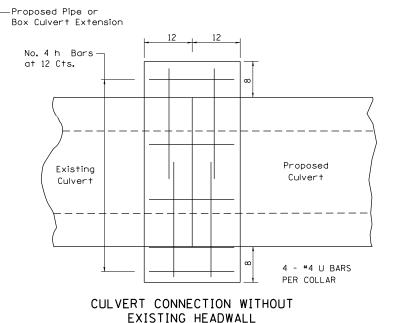


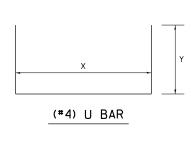


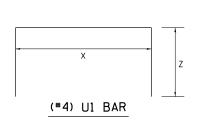
PLAN OF CULVERT WITH ANGLED WING WALLS



FRONT







FOR EXPANSION BOLTS

	NUMBER OF		DLTS REQUIRED PER SIDE		
	EXTENSIONS ·	< 15'	EXTENSIONS > 15'		
H OR S	NUMBER	SPACING	NUMBER	SPACING	
24	*		*		
30	2	18	2	18	
36	2	24	2	24	
48	3	18	3	18	
60	4	16	3	24	
72	5	15	4	20	
84	5	18	4	24	
96	6	15	5	21	
108	6	19	5	24	
120	7	18	6	21	
132	8	17	6	24	
144	8	19	7	22	

* MINIMUM ONE PER SIDE

FILE NAME =	USER NAME = renkesrw	DESIGNED -	REVISED - 10-17-11
c:\pw_work\pwidot\renkesrw\dms36691\D205	584-sht-details.dgn	DRAWN -	REVISED -
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = Tue Dec 18 16:19:11 2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						F.A.U. RTE.		
REGION 2 / DISTRICT				2 STANDARD			40B	
•	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED RO	AD DIST NO I	

F.A.U. SECTION				со	UNTY	TOTAL SHEETS	SHEET NO.	
5789	40BR				ROCK	ISLAND	225	161
					CON	TRACT	NO. 6	64341
FED. RO	DAD DIST. NO).	ILLINOIS	FED. A	ID PROJ	ECT		