

QUANTITIES FOR	CONCRETE PIPES							
INSIDE DIAMETER	ESTIMATED							
OF PIPE	CLASS SI CONCRETE							
	REQUIRED							
	20" (500 mm) WIDTH							
INCH (mm)	CU. YD. (m 3)							
4" (100)	0.14 (0.11)							
6" (150)	0.16 (0.12)							
8" (200)	0.19 (0.14)							
10" (250)	0.22 (0.17)							
12" (300)	0.25 (0.19)							
15" (375)	0.30 (0.23)							
18" (450)	0.35 (0.27)							
24" (600)	0.45 (0.35)							
30" (750)	0.57 (0.43)							
36" (900)	0.69 (0.53)							
42" (1050)	0.83 (0.63)							
48" (1200)	0.97 (0.74)							
54" (1350)	1.12 (0.86)							
60" (1500)	1.28 (0.98)							

QUANTITIES FOR METAL PIPES								
INSIDE DIAMETER	ESTIMATED							
OF PIPE	CLASS SI CONCRETE							
	REQUIRED							
	20" (500 mm) WIDTH							
INCH (mm)	CU. YD. (m3)							
4" (100)	0.12 (0.09)							
6" (150)	0.14 (0.11)							
8" (200)	0.16 (0.12)							
10" (250)	0.19 (0.14)							
12" (300)	0.21 (0.16)							
15" (375)	0.25 (0.19)							
18" (450)	0.29 (0.22)							
24" (600)	0.38 (0.29)							
30" (750)	0.47 (0.36)							
36" (900)	0.59 (0.45)							
42" (1050)	0.69 (0.53)							
48" (1200)	0.81 (0.62)							
54" (1350)	0.93 (0.71)							
60" (1500)	1.05 (0.81)							

## GENERAL NOTES

- 1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
- 2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS. THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
- 3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m<sup>2</sup>).
- 4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
- 5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

									DIS	DISTRICT 5 DETAIL NO. 54248510			
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED - 12/06						F.A.I.	SECTION	COUNTY TOTAL SHEET		
\$FILEL\$		DRAWN -	REVISED -	STATE OF ILLINOIS	CONCRETE COLLAR				74	HSIP FY2012-1	CHAMPAIGN 160 34		
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					11311 1 12012 1	CONTRACT NO. 70956			
	PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAL	DIST. NO. ILLINOIS FED.			