

48"

60"

72"

84"

96"

108"

120"

5"

6"

7"

8"

9"

10"

11"

6"

8"

8"

8"

8"

12"

12"

20"

40"

40"

40"

40"

40"

40"

30"

36"

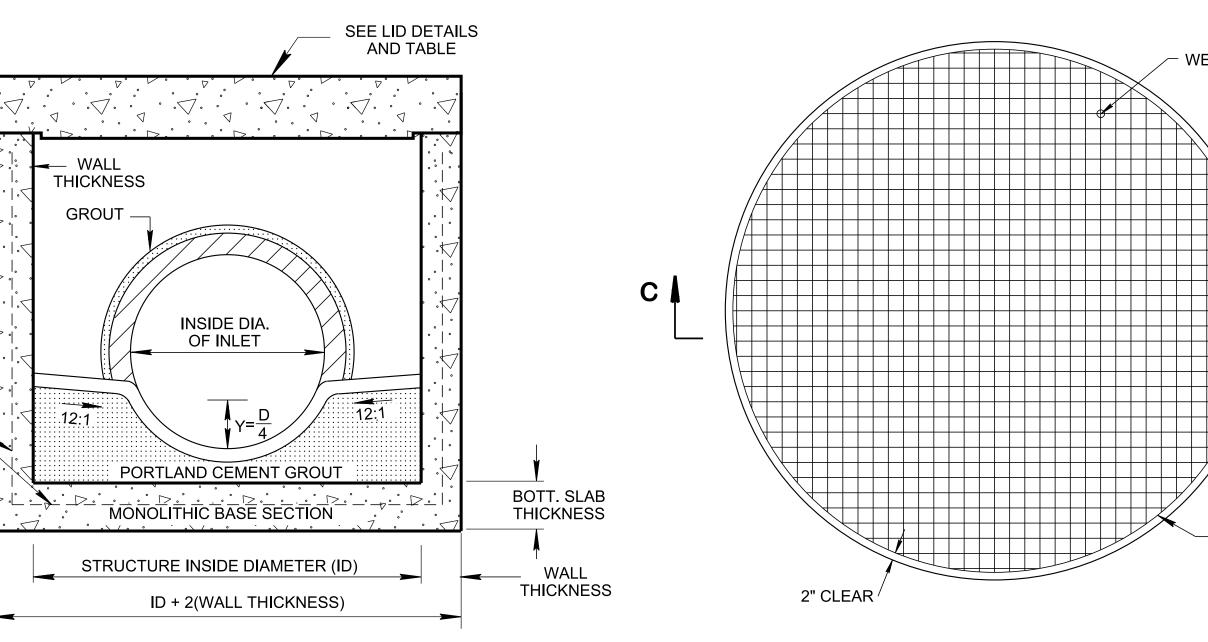
48"

60"

66"

72"

78"



SECTION B-B

WALL

THICKNESS

LID DIA.

4'-10"

6'-0"

7'-2"

8'-4"

9'-6"

10'-8"

11'-10"

18"

24"

30"

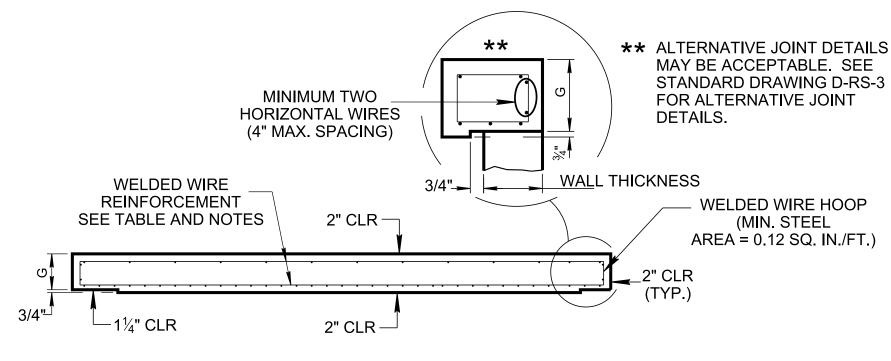
36"

42"

48"

54"

LID REINFORCING



SECTION C-C LID DETAILS FOR ROUND JUNCTION BOX

A	THIS JUNCTION BOX WILL CONFORM TO THE STANDARD DRAW DIRECTED BY THE ENGINEER TO MEET SPECIAL CONDITIONS. CONTRACT PRICE DUE TO SUCH CHANGES. IN ALL CASES IT M ACCOMMODATE INLET AND OUTLET PIPES.
B	ALL PRECAST ELEMENTS TO MEET ASTM C478 (CURRENT EDIT AND AASHTO LRFD UNLESS SUPERSEDED BY THE STANDARD [
C	THE FOLLOWING MATERIAL PROPERTIES ARE REQUIRED FOR F
	CONCRETE: $f_c = 4,000$ POUNDS PER SQUARE INCH AT 2

WWR MEETING ASTM A1064, F_y = 70,000 POUNDS PER SQUARE INCH. PLAIN OR DEFORMED WIRE MAY BE USED FOR BASE SECTIONS. DEFORMED WIRE SHALL BE USED FOR ALL LIDS.

AS AN ALTERNATIVE, REBAR MEETING ASTM A615 OR A706, $F_v = 60,000$ POUNDS PER SQUARE INCH MAY BE USED.

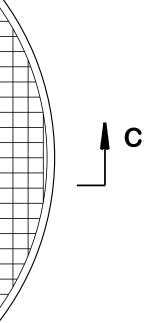
REFER TO STANDARD DRAWINGS D-JBS-SERIES.

- (D)REFER TO STANDARD DRAWING D-RS-1 FOR PRECAST ROUND STRUCTURES ADDITIONAL GENERAL NOTES.
- E REFER TO STANDARD DRAWING D-RS-2 FOR PRECAST ROUND STRUCTURES REINFORCEMENT DETAIL.
- (F) REFER TO STANDARD DRAWING D-RS-3 FOR PIPE CUT-OUT HOLE DETAILS, NON-MONOLITHIC BASE SECTION DETAILS AND ALTERNATIVE JOINT DETAILS.
- G BOTTOM MAT OF WWR IN LIDS SHALL HAVE A MAXIMUM SPACING OF 4 INCHES IN EACH DIRECTION. IF REBAR IS USED, MAX. SPACING = 12" EACH DIRECTION.
- (H)TOP MAT OF WWR IN LIDS SHALL HAVE A MINIMUM OF 0.12 SQ. INCH PER FT IN BOTH DIRECTIONS.
- (\mathbf{I}) THE COST OF FURNISHING AND PLACING CONCRETE, TO BE USED FOR THE FORMING OF INVERTS, TO BE INCLUDED IN THE PRICE BID FOR ROUND JUNCTION BOX STRUCTURES.
- (J) ROUND JUNCTION BOX STRUCTURES PAYMENT DEPTH MEASUREMENT MADE FROM THE TOP SLAB TO THE BOTTOM SLAB, SEE SECTION A-A FOR DETAIL. SEE TABLE FOR ITEM NUMBERS.

ON BOX LIDS DIMENSION & REINFORCEMENT								
MIN. STEEL AREA FOR LID								
BOTTOM	MAT WWR	TOP MAT WWR						
STEEL AREA	SPACING	STEEL AREA	SPACING					
(SQ. INCH/	(4" MAX.) &	(SQ. INCH/	(4" MAX.) &					
FT)	SIZE	FT)	SIZE					
0.42	4x4-D14xD14	0.12	4X4-D4xD4					
0.49	4x4-D17xD17	0.12	4X4-D4xD4					
0.45	4x4-D15xD15	0.12	4X4-D4xD4					
0.49	4x4-D17xD17	0.12	4X4-D4xD4					
0.45	4x4-D15xD15	0.12	4X4-D4xD4					
0.47	4x4-D16xD16	0.12	4X4-D4xD4					
0.50	4x4-D17xD17	0.12	4X4-D4xD4					
	STEEL AREA (SQ. INCH/ FT) 0.42 0.49 0.45 0.49 0.45 0.45 0.45 0.45 0.45	BOTTOM WAT WWR BOTTOM WAT WWR STEEL AREA SPACING (SQ. INCH/ (4" MAX.) & FT) SIZE 0.42 4x4-D14xD14 0.49 4x4-D17xD17 0.45 4x4-D15xD15 0.49 4x4-D17xD17 0.45 4x4-D15xD15 0.45 4x4-D15xD15 0.45 4x4-D15xD15	BOTTOM MAT WWR TOP MA STEEL AREA (SQ. INCH/ SPACING (4" MAX.) & SIZE STEEL AREA (SQ. INCH/ FT) SIZE FT) 0.42 4x4-D14xD14 0.12 0.49 4x4-D17xD17 0.12 0.45 4x4-D17xD17 0.12 0.49 4x4-D15xD15 0.12 0.49 4x4-D17xD17 0.12 0.49 4x4-D15xD15 0.12 0.49 4x4-D15xD15 0.12 0.45 4x4-D15xD15 0.12					

,	STRUCTURES DIMENSION & ITEM NO.												
	ROUND JUNCTION BOX STRUC. MINIMUM DESIGN DEPTH (FT) INLET OR OUTLET PIPES INSIDE DIAMETER										PAY ITEM NO. (PER EACH) J		
	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	> 4'-8' Depth	(') Depth
	3.29	3.83										611-63.01	611-63.02
	3.50	4.04	4.58	5.13								611-63.10	611-63.11
	3.63	4.17	4.71	5.25	5.79	6.33						611-63.20	611-63.21
	3.75	4.29	4.83	5.38	5.92	6.46	7.00	7.54				611-63.30	611-63.31
	3.88	4.42	4.96	5.50	6.04	6.58	7.13	7.67	8.21			611-63.40	611-63.41
	4.08	4.63	5.17	5.71	6.25	6.79	7.33	7.88	8.42	9.00	9.50	611-63.50	611-63.51
	4.29	4.83	5.38	5.92	6.46	7.00	7.54	8.08	8.63	9.20	9.70	611-63.60	611-63.61

WELDED WIRE REINFORCEMENT TOP AND BOTTOM OF LID SEE TABLE AND NOTES



WELDED WIRE HOOP (MIN. STEEL AREA = 0.12 SQ. IN./FT.)

ES

WING UNLESS OTHERWISE SHOWN OR THERE WILL BE NO VARIATION FROM THE MUST BE BUILT LARGE ENOUGH TO

TION) AND AASHTO M199 (CURRENT EDITION) DRAWINGS.

PRECAST STRUCTURES:

28 DAYS.

