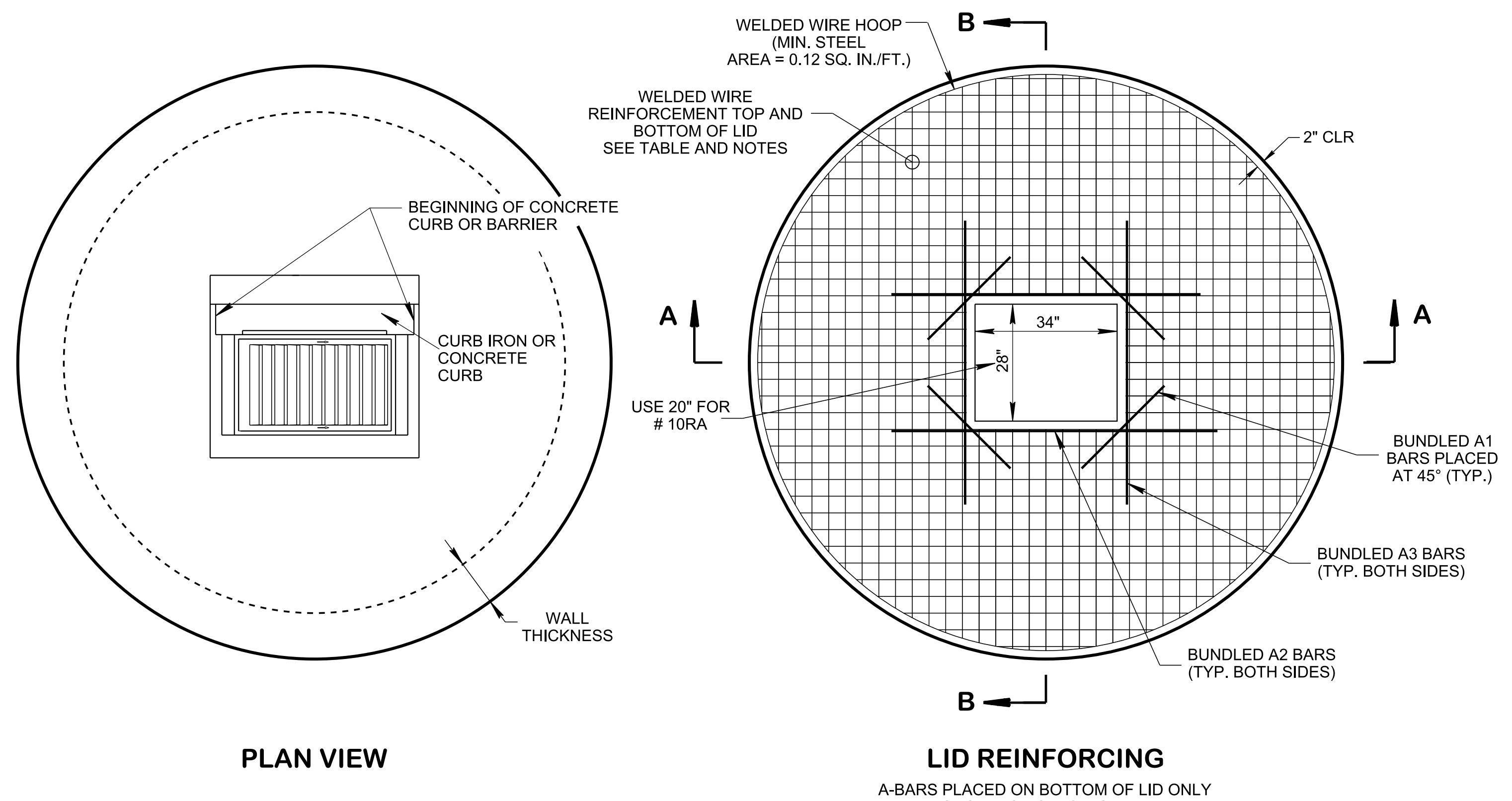


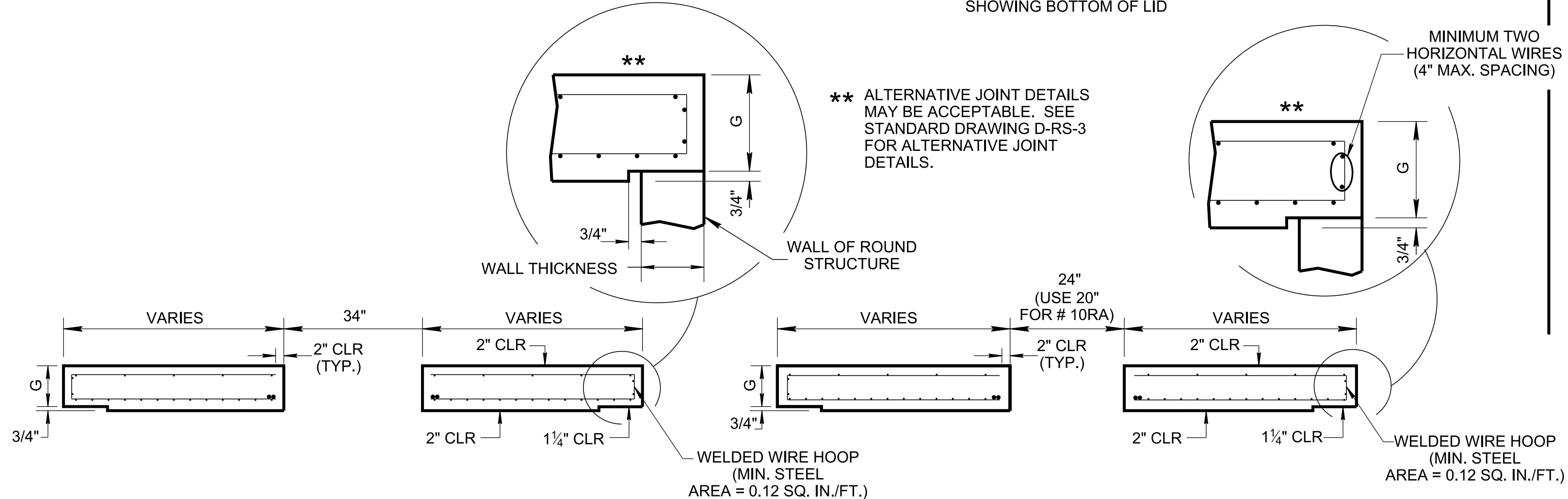
4/14/2024 11:44:28 AM P:\StandDraw\DESIGN STANDARDS\Standards Drawings Library\Standard Roadway Drawings - CURRENT\In Progress\10-103.00 Catch Basins and Manholes IP\DR1-20240106.dgn



PLAN VIEW

LID REINFORCING

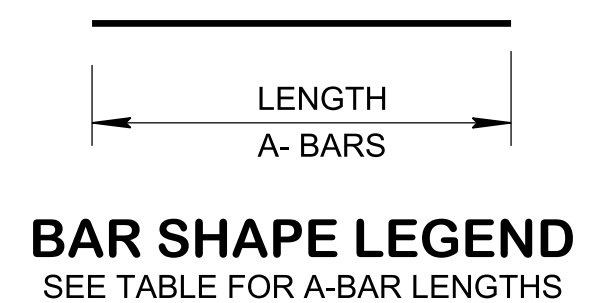
A-BARS PLACED ON BOTTOM OF LID ONLY SHOWING BOTTOM OF LID



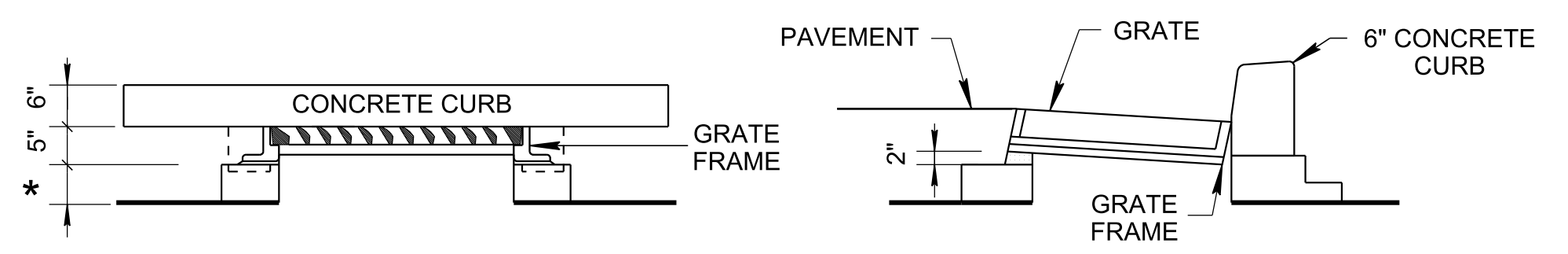
SECTION A-A

SECTION B-B

**SINGLE OPENING CURB AND WALL INLETS
USE FOR STRUCTURE NOS. 10RA, 12RA, 12RB, 12RC,
13RA, 13RB, 13RC, 25RA, 25RB, 41RB**

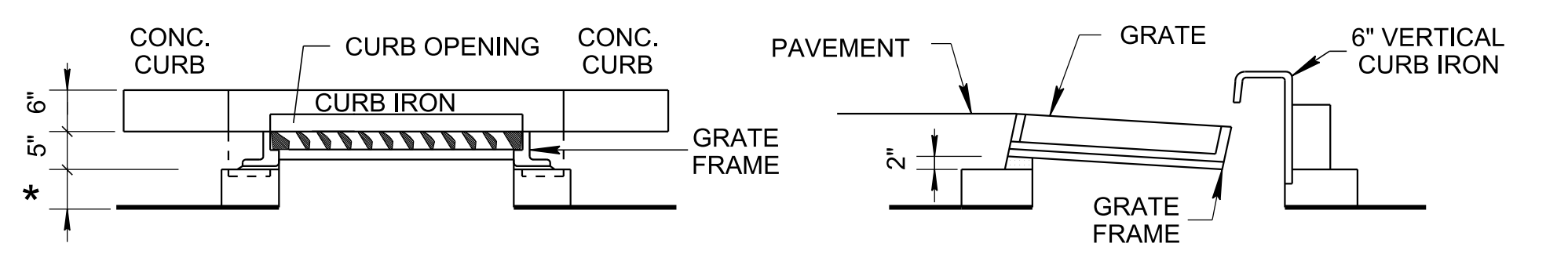


ROUND STRUCTURE INSIDE DIA (ID)	WALL THICKNESS	STRUCTURE NUMBER	LID DIA.	G	MIN. STEEL AREA FOR LID				A- BAR SIZE	A1 BAR LENGTH	A2 BAR LENGTH	A3 BAR LENGTH
					BOTTOM MAT WWR		TOP MAT WWR					
					STEEL AREA (SQ. INCH/ FT)	SPACING (4" MAX.) & SIZE	STEEL AREA (SQ. INCH/ FT)	SPACING (4" MAX.) & SIZE				
48"	5"	10RA	4'-10"	10"	0.20	4X4-D7XD7	0.12	4X4-D4xD4	(2) #4	1'-7"	3'-7"	3'-1"
60"	6"	12RA, 13RA, 25RA, 41RB	4'-10"	10"	0.20	4X4-D7XD7	0.12	4X4-D4xD4	(2) #4	1'-10"	4'-0"	3'-1"
72"	7"	12RB, 13RB, 25RB, 41RB	6'-0"	10"	0.21	4X4-D7XD7	0.12	4X4-D4xD4	(2) #4	1'-10"	4'-11"	4'-7"
84"	8"	12RC, 13RC, 25RB, 41RB	7'-2"	10"	0.28	4X4-D10XD10	0.12	4X4-D4xD4	(2) #4	1'-10"	5'-8"	5'-2"
96"	9"	12RC, 13RC, 25RB, 41RB	8'-4"	10"	0.33	4X4-D11XD11	0.12	4X4-D4xD4	(2) #4	1'-10"	5'-8"	5'-2"
108"	10"	12RC, 13RC, 25RB, 41RB	9'-6"	10"	0.42	4X4-D14XD14	0.12	4X4-D4xD4	(2) #4	1'-10"	5'-8"	5'-2"
120"	11"	12RC, 13RC, 25RB, 41RB	10'-8"	10"	0.48	4X4-D16XD16	0.12	4X4-D4xD4	(2) #5	2'-4"	6'-2"	5'-8"
120"	11"	12RC, 13RC, 25RB, 41RB	11'-10"	10"	0.53	4X4-D18XD18	0.12	4X4-D4xD4	(2) #5	2'-4"	6'-2"	5'-8"



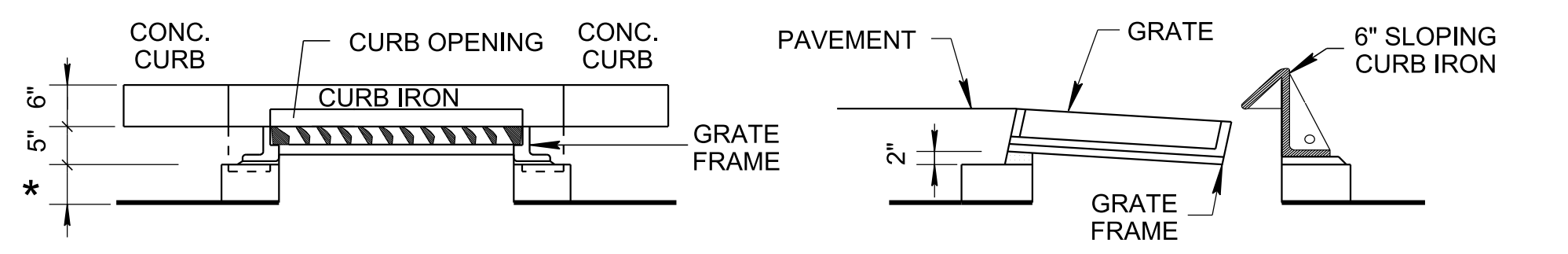
CONCRETE CURB DETAIL FOR STRUCTURE NO. 10RA

REFER TO TDOT STD. DWG. D-CBB-12A FOR GRATE AND FRAME DETAILS



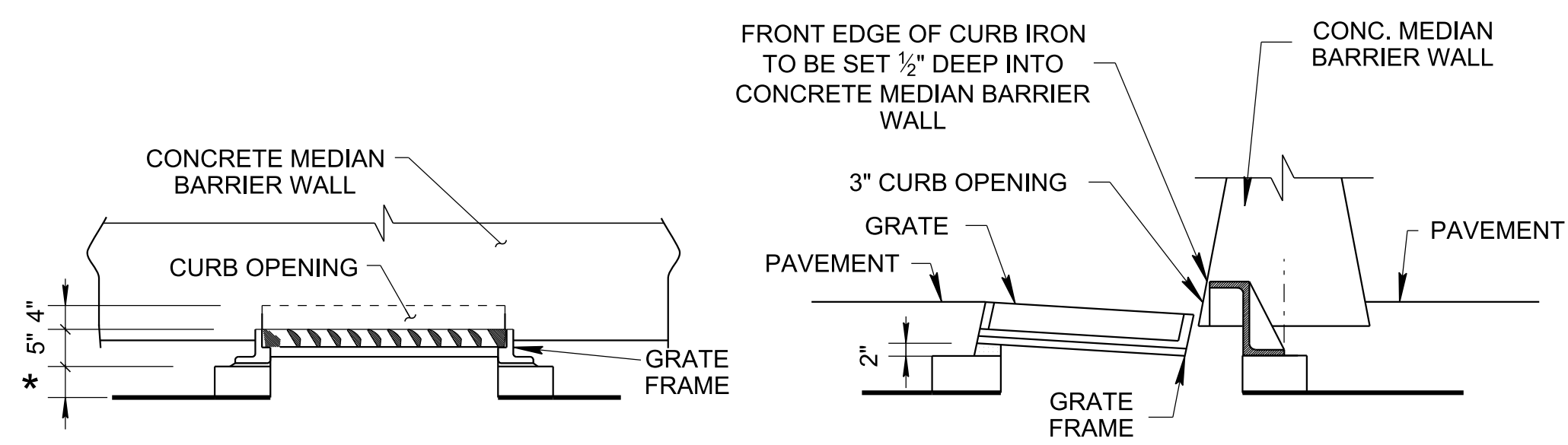
6" VERTICAL CURB IRON DETAIL FOR STRUCTURE NOS. 12RA, 12RB, 12RC, 13RA, 13RB, 13RC

REFER TO TDOT STD. DWG. D-CBB-12A OR D-CBB-12D, AND D-CBB-13 FOR GRATE AND FRAME DETAILS



6" SLOPING CURB IRON DETAIL FOR STRUCTURE NOS. 25RA AND 25RB

REFER TO TDOT STD. DWG. D-CBB-12B FOR GRATE AND FRAME DETAILS



SINGLE CONC. MEDIAN BARRIER WALL INLET DETAIL FOR STRUCTURE NO. 41RB

REFER TO TDOT STD. DWG. D-CBB-31 FOR GRATE AND FRAME DETAILS

* THIS DIMENSION MAY VARY FROM A MINIMUM OF 0 INCHES TO A MAXIMUM OF 24 INCHES. THE CONTRACTOR HAS THE OPTION OF USING STANDARD PRECAST CONCRETE RISER FRAMES. PRECAST CONCRETE RISER FRAMES SHALL BE USED AS SHOWN ON STANDARD DRAWING D-RF-1.

GENERAL NOTES	
(A)	ALL PRECAST ELEMENTS TO MEET ASTM C478 (CURRENT EDITION) AND AASHTO M199 (CURRENT EDITION) AND AASHTO LRFD UNLESS SUPERSEDED BY THE STANDARD DRAWINGS.
(B)	THE FOLLOWING MATERIAL PROPERTIES ARE REQUIRED FOR PRECAST STRUCTURES: CONCRETE: $f_c = 4,000$ POUNDS PER SQUARE INCH AT 28 DAYS WWR MEETING ASTM A1064, $F_y = 70,000$ POUNDS PER SQUARE INCH. DEFORMED WIRE SHALL BE USED FOR ALL LIDS. REINFORCING STEEL: ASTM A615, $F_y = 60,000$ POUNDS PER SQUARE INCH. ALL REINFORCING IS TO BE INSTALLED AS DETAILED.
(C)	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.
(D)	TOP MAT OF WWR SHALL HAVE A MINIMUM OF 0.12 SQ. INCH PER FT IN BOTH DIRECTIONS.
(E)	PAYMENT OF LID, GRATE, FRAME AND CURB IRON SHALL BE INCLUDED IN THE PRICE BID FOR ROUND STRUCTURES. SEE STANDARD DRAWING D-RS-1 FOR GENERAL NOTES & PAY ITEM NUMBERS.
(F)	REFER TO STANDARD DRAWINGS D-RS-2 AND D-RS-3 FOR ROUND STRUCTURES BASE DETAIL.

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

**ROUND LID DETAILS
FOR SINGLE CURB
AND WALL INLET**

01-06-2024 D-RL-1