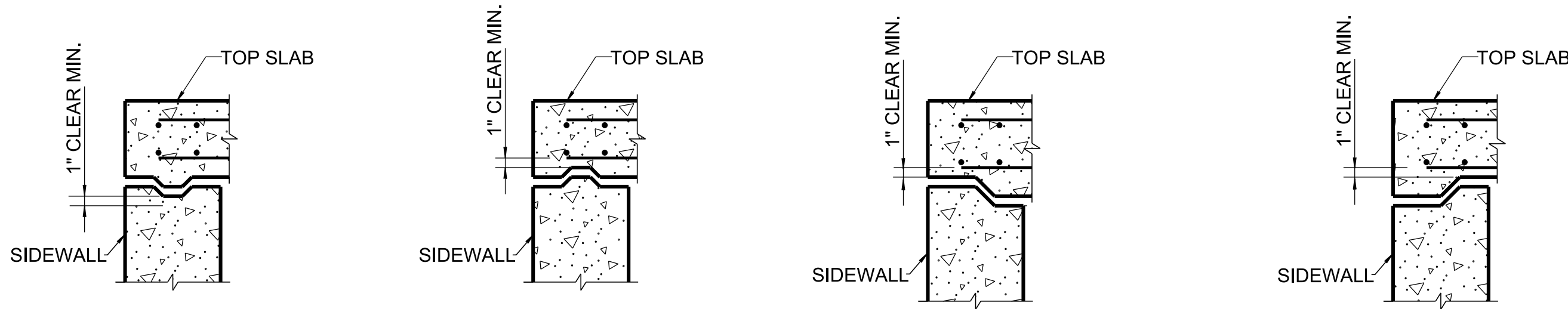


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P:\StandDraw\DESIGN STANDARDS\Standards Drawings Library\Standard Roadway Drawings - CURRENT\In Progress\10-102.00 Catch Basins and Manholes IP\102.01 Catch Basins IP\DCB99R-20220128.dgn



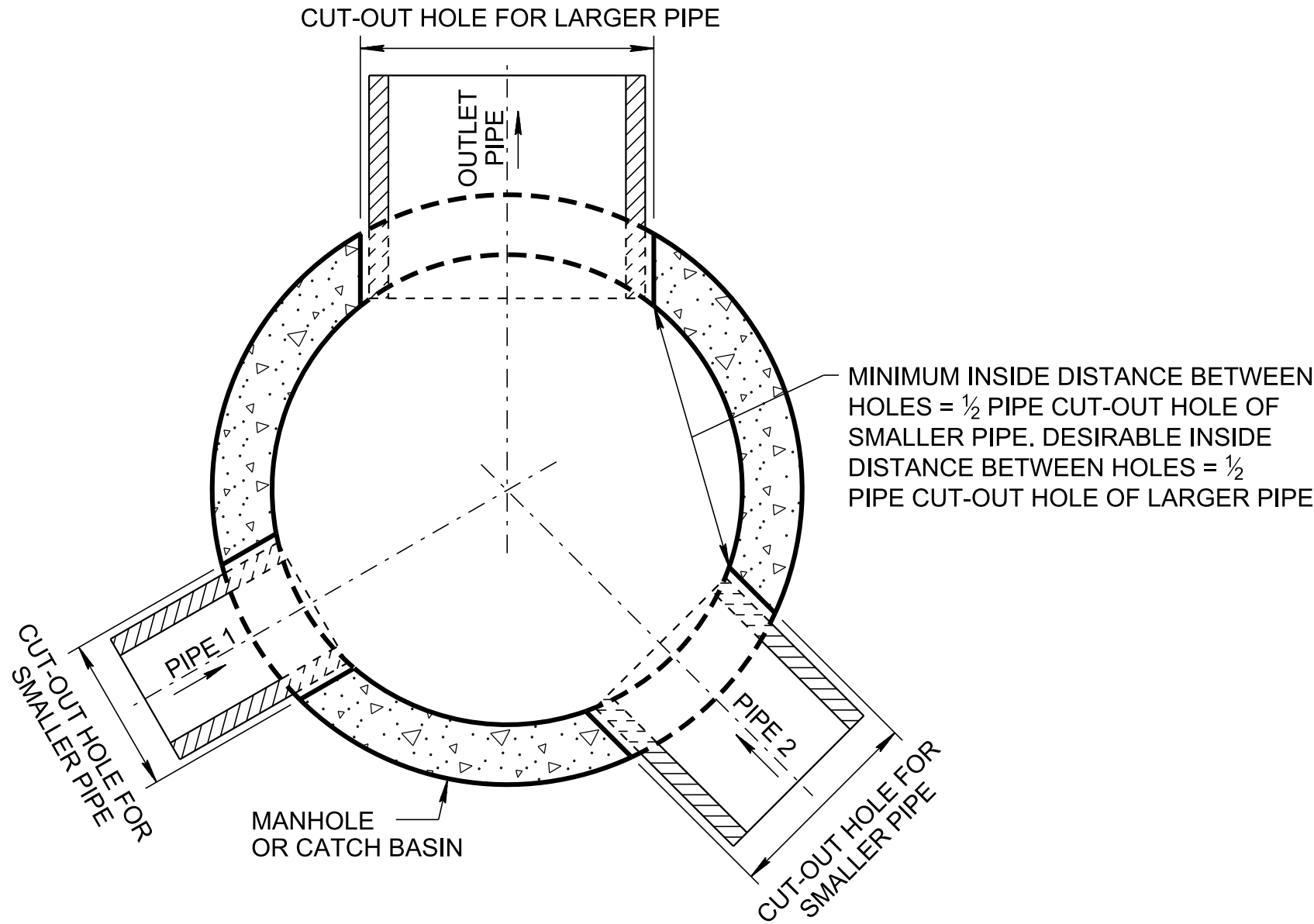
ALTERNATE JOINT DETAILS

NOTE: WHEN ALTERNATE JOINT DETAIL IS PROVIDED  
MINIMUM CLEAR DIMENSIONS AND INTERIOR SLAB  
THICKNESS SHOWN ON STANDARDS SHALL BE  
MAINTAINED.

SUGGESTED SIZE OF WELDED WIRE REINFORCEMENT (WWR) FOR USE IN WALLS				
INSIDE DIA. OF CATCH BASIN DIA. (INCHES)	WALL THICKNESS W (INCHES)	AREA STEEL REQ'D (SQ. IN./FT.)	WWR OPTION A	WWR OPTION B
48	5	0.12	WWR 3x8-W3xW1.8	WWR 3x12-W3xW2.1
60	6	0.15	WWR 2x8-W2.5xW2.5	WWR 3x12-W3xW2.1 (2 LAYERS)
72	7	0.18	WWR 3x6-W4.5xW2.1	WWR 3x12-W3xW2.1 (2 LAYERS)
84	8	0.21	WWR 2x6-W3.5xW2.1	WWR 3x12-W3xW2.1 (2 LAYERS)
96	9	0.24	WWR 2x8-W4xW2.1	WWR 3x12-W3xW2.1 (2 LAYERS)
108	10	0.30	WWR 2x6-W5xW2.5	
120	11	0.36	WWR 2x8-W6xW3	

WWR AxB-WCxWD

A = SPACING OF HORIZONTAL WIRES, IN.  
B = SPACING OF VERTICAL WIRES, IN.  
C = HORIZONTAL WIRE SIZE  
D = VERTICAL WIRE SIZE



MULTIPLE PIPE CONNECTIONS TO A ROUND STRUCTURE

NOTE: WHEN ALTERNATE JOINT DETAIL IS PROVIDED  
MINIMUM CLEAR DIMENSIONS AND INTERIOR SLAB  
THICKNESS SHOWN ON STANDARDS SHALL BE  
MAINTAINED.

GENERAL NOTES	
(A)	DRAWING TO BE USED FOR ALL CIRCULAR PRECAST CATCH BASINS AND MANHOLES.
(B)	WELDED WIRE REINFORCEMENT (WWR) SHALL BE PLACED AS DESCRIBED IN ASTM C478 LATEST EDITION. WWR TABLE IS PROVIDED FOR REFERENCE ONLY. OTHER WWR SIZES AND/OR GRID SPACING MAY BE UTILIZED TO OBTAIN THE REQUIRED AREA OF STEEL REINFORCEMENT. A MAXIMUM OF TWO LAYERS MAY BE UTILIZED. WWR SHALL NOT BE UTILIZED IN TOP SLABS.
(C)	SEE D-CB-99RA FOR BILL OF STEEL FOR LID REINFORCEMENT.
(D)	CUT-OUT HOLES MAY BE PREFORMED OR CORE DRILLED.

STATE OF TENNESSEE  
STANDARD  
DRAWING  
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS  
DETAILS  
FOR  
ROUND  
STRUCTURES

08-01-2012

D-CB-99R

REV. 9-24-12: ADDED GENERAL NOTE (C).  
REV. 3-11-14: ELIMINATED STIRRUPS ON  
DETAILS VIEW.  
REV. 02-20-2020: REDREW SHEET.  
REV. 01-28-2022: GENERAL NOTE (D) WAS  
ADDED. THE TERM WWF WAS REPLACED  
WITH THE TERM WWR ON THE TABLE AND  
GENERAL NOTE (B).