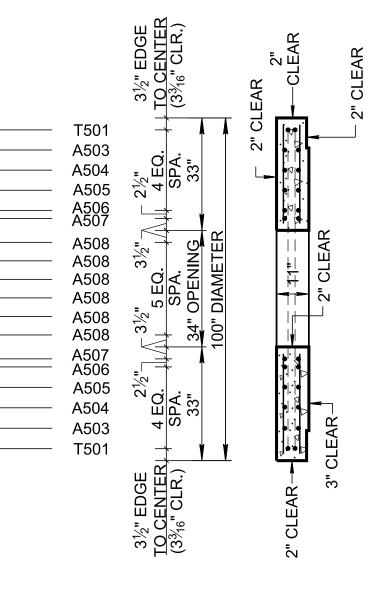
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HON

S

T501

(93⁵/₈" DIA.

OUT TO OUT)

CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 40.00'.

CATCH BASIN DIMENSIONS				FOR DESIGN
INSIDE DIAMETER (D) OF PIPE (INCHES)	PIPE WALL THICKNESS (INCHES)	DIAMETER OF CUT-OUT HOLES (INCHES)	BOX SECTION MINIMUM HEIGHTS (INCHES)	USE ONLY CATCH BASIN MINIMUM DESIGN DEPTH (FEET)
18	$2\frac{1}{2}$	25	58½	4.36
24	3	32	65½	4.90
30	3½	39	72 ½	5.45
36	4	46	79½	5.99
42	4½	53	86½	6.53
48	5	60	93½	7.07
54	5½	67	100½	7.61
60	6	74	107½	8.15

- (1) CUT-OUT HOLES BASED ON REINFORCED CONCRETE PIPE WITH WALL TYPE "B".
- (2) ALL FLEXIBLE PIPE MATERIALS REQUIRE GASKET. SEE STANDARD DRAWING D-PB-2.
- (3) CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UNCUT WILL NOT BE PERMITTED.

GENERAL NOTES

(A)ALL PRECAST ELEMENTS TO MEET ASTM C478 (CURRENT EDITION) AND AASHTO M199 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING:

CONCRETE: $f_C = 4,000$ POUNDS PER SQUARE INCH AT 28 DAYS REINFORCING STEEL: ASTM A615, Fy = 60,000 POUNDS PER SQUARE INCH ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

- THIS DIMENSION MAY VARY FROM A MINIMUM OF 0 INCHES TO A MAXIMUM OF 24 INCHES AS LONG AS 27 INCHES IS SATISFIED THE CONTRACTOR HAS THE OPTION OF USING BRICK OR STANDARD PRECAST CONCRETE RISER FRAMES. THE USE OF BRICK SHALL BE LIMITED TO 6 INCHES. IF THIS DIMENSION EXCEEDS 6 INCHES, PRECAST CONCRETE RISER FRAMES SHALL BE USED AS SHOWN ON STANDARD DRAWING D-RF-1.
- PRECAST CATCH BASIN UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED CATCH BASIN UNITS AT THEIR OWN EXPENSE.
- (D) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.
- \bigcirc THE CONTRACTOR IS TO PATCH ALL LIFTING DEVICE HOLES WITH GROUT AND PLACE A MINIMUM OF ONE (1) INCH OF COVER OVER THE HARDWARE OF THESE DEVICES ON BOTH TOP AND BOTTOM SURFACES.
- (F) ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99R FOR ADDITIONAL DETAILS.
- \bigcirc SEE ROADWAY PLANS DRAINAGE TABULATION FOR PIPE INLET AND OUTLET ELEVATIONS. IF NEEDED, INVERT ELEVATIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
- FOR CASES WHERE THE OUTLET PIPE DIAMETER IS LARGER THAN THE INLET PIPE DIAMETER, A MINIMUM 27 INCH DEPTH SHALL BE MAINTAINED ABOVE THE OUTLET PIPE.
- SEE STANDARD DRAWING D-CBB-31 FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT INCLUDES RISER SECTION AND GRATE. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS:

611-31.02. CATCH BASINS, TYPE 31, > 4'-8' DEPTH, EACH. (THROUGH) 611-31.07, CATCH BASINS, TYPE 31, > 24'-28' DEPTH, EACH.

PAYMENT FOR CATCH BASINS DEEPER THAN 28' WILL BE MADE UNDER ITEM NUMBER:

CATCH BASINS, TYPE 31, _'-_'DEPTH, 611-31.08,

■ APPROVED BY FHWA (ALL OTHERS APPROVED BY TDOT)

STATE OF TENNESSEE STANDARD DRAWING **DEPARTMENT OF TRANSPORTATION**

REV. 12-18-96: REMOVED 0.5"

DIMENSION TABLE.

ACROSS CATCH BASIN.

PREMOLDED FIBER EXPANSION JOINT FROM SECTION "B-B". REMOVED OLD GENERAL NOTE (F). CHANGED LABEL OF LAST THREE GENERAL NOTES.

REV. 4-15-97: CHANGED CATCH BASIN

REV. 1-19-99: CHANGED MINIMUM DEPTH

TABLE AND DRAWING IN GENERAL TO REFLECT REDUCTION IN INVERT DROP

REV. 9-5-00: IN PLAN VIEW MOVED

LOCATION OF A-A TO MATCH SECTIONAL

REV. 5-27-01: CHANGED PAY ITEMS IN

GENERAL NOTE (H). ADDED CATCH

REV. 10-26-03: ADDED DIMENSION TO

LRFD BRIDGE DESIGN SPECIFICATIONS,

4TH EDITION WITH INTERIMS. REVISED REINFORCING, GENERAL NOTES AND

ADDITIONAL MISC. DRAFTING EDITS.

REV. 9-24-12: MODIFIED TOP SLAB

REV. 3-11-14: ELIMINATED STIRRUPS.

REV. 05-15-18: REVISED CATCH BASIN

CORRECTED STANDARD SPECIFICATIONS SECTION NUMBER TO 921 FOR NON

-SHRINK GROUT. ADDED DIMENSION IN

CORRECTED REBAR PLACEMENT IN LIDS ADDED DIMENSION IN SECTION VIEW A-A FOR MINIMUM DESIGN DEPTH. ADJUSTED

MINIMUM DESIGN DEPTH VALUES.

SECTION VIEW A-A FOR NOTE (B).

BOX SECTION MINIMUM HEIGHTS.

REV. 02-20-2020: REDREW SHEET.

AND MINIMUM DEPTH.

☐ REV. 8-01-12: REVISED CATCH BASIN LID FOR COMPLIANCE WITH AASHTO

BASIN MAXIMUM DEPTH NOTE.

SECTION A-A.

STANDARD **PRECAST** CIRCULAR NO. 31 **CATCH BASIN**

(FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)

NOT TO SCALE

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07-31-1986

D-CB-31R