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NOT TO SCALE

CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 20.00'.

FOR DESIGN **USE ONLY** DIAMETER INSIDE BOX SECTIO **CATCH BASIN** PIPE WALL DIAMETER MINIMUM OF CUT-OUT MINIMUM **THICKNESS** (D) OF PIPE HOLES **HEIGHTS** DESIGN DEPTH (INCHES) (INCHES) (INCHES) (INCHES) (FEET) 4.07 18 $2\frac{1}{2}$ 25 55 24 32 62 4.61 3 TO BE FORMED IN ORDER TO OBTAIN A SMOOTH (4) 30 $3\frac{1}{2}$ 39 69 5.15 5.70 (4) 36 4 46 76 $4\frac{1}{2}$ 6.24 53 83 (4) 42 TO BE USED IN 96 INCH INTERIOR WALLS ONLY. (4) 48 60 90 6.78 (4) 54 $5\frac{1}{2}$ 67 97 7.32

CATCH BASIN DIMENSIONS 74 104 7.86

REINFORCING STEEL LEGEND 48" A500 104½" 102½" 12" H501 H500 **VARIABLE** 101¼' 1041/4" L700 10" 101¼" L500 A506 DIMENSIONS SHOWN IN THIS LEGEND ARE OUTSIDE TO OUTSIDE OF BAR. STANDARD C.R.S.I HOOK AND TIE DETAILS SHALL APPLY, EXCEPT AS NOTED

(4) 60

GENERAL NOTES

- DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 14 CONCRETE CATCH BASINS AND ALL PRECAST NO. 14 CONCRETE CATCH BASINS THAT ARE GREATER THAN TEN FEET IN DEPTH. SEE STANDARD DRAWING D-CB-14P FOR DETAILS OF PRECAST NO. 14 CONCRETE CATCH BASINS TEN FEET AND LESS IN DEPTH. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL CONSTRUCTION NOTES & DETAILS.
- THIS DIMENSION MAY VARY FROM A MINIMUM OF 0 INCHES TO A MAXIMUM OF 24 INCHES AS LONG AS 23 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.
- (C) THIS DRAWING DEPICTS THE MINIMUM HORIZONTAL REINFORCING AT THE TOP OF CATCH BASIN WALLS, SEE ADDITIONAL DETAILS ON STANDARD DRAWING D-CB-99 FOR TALLER SECTIONS AND STEEL PLACEMENT ABOVE PIPE
- CAST-IN-PLACE CONCRETE CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING. THE CONTRACTOR MAY, WITH PERMISSION FROM THE ENGINEER, SUBSTITUTE PRECAST CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM C913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.
- THE FOLLOWING MATERIAL PROPERTIES ARE REQUIRED FOR BOTH CAST-IN-PLACE AND PRECAST STRUCTURES:
 - 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.

CUT-OUT HOLES BASED ON REINFORCED

CONCRETE PIPE WITH WALL TYPE "B".

ALL FLEXIBLE PIPE MATERIALS REQUIRE

GASKET. SEE STANDARD DRAWING D-PB-2

CUT-OUT HOLES FOR PRECAST STRUCTURES

EDGED HOLE. SCORED OR ETCHED HOLES

NOT BE PERMITTED.

WITH REINFORCING STEEL LEFT UNCUT WILL

- (F) 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.
- (G) THE CONTRACTOR MAY ELIMINATE THE A503 BARS BY LENGTHENING THE VERTICAL LEG OF THE H500/H501 BARS SO THAT 11/2 INCHES OF CLEAR COVER IS PROVIDED AT THE TOP OF THE STRUCTURE.
- (H) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.
- 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.
- ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL DETAILS.
- 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 23 INCH DEPTH SHALL BE MAINTAINED ABOVE THE OUTLET PIPE.
- SEE STANDARD DRAWING D-CBB-12A FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- (N) PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT INCLUDES RISER SECTIONS AND GRATES. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS:

CATCH BASINS, TYPE 14, > 4'-8' DEPTH, 611-14.05, CATCH BASINS, TYPE 14, > 16'-20' DEPTH,

EACH, EACH.

(THROUGH)

■ APPROVED BY FHWA

(ALL OTHERS APPROVED BY TDOT)

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

REV. 12-18-95: CHANGED VERTICAL DEPTH REQUIREMENTS. ADDED

REV. 12-18-96: REMOVED 0.5"

HANDLING AND CUT-OUT HOLE NOTES.

PREMOLDED FIBER EXPANSION JOINT

FROM SECTION "B-B". REMOVED OLD

GENERAL NOTE (H). CHANGED LABEL OF LAST THREE GENERAL NOTES.

REV 10-26-97: CHANGED MINIMUM

IN BASE SECTION.

MINIMUM DEPTH TABLE.

DEPTH TABLE AND MODIFIED STEEL

REV. 1-19-99: MODIFIED CATCH BASIN

REV. 5-27-01: CHANGED PAY ITEMS

BASIN MAXIMUM DEPTH NOTE.

REV. 7-29-02: CHANGED ASTM

IN GENERAL NOTE (J). ADDED CATCH

SPECIFICATION IN GENERAL NOTE (C)

■ REV. 8-01-12: REVISED CATCH BASIN FOR

INTERIMS. REVISED REINFORCING,

ADDITIONAL MISC. DRAFTING EDITS.

REV. 9-24-12: MODIFIED TOP SLAB AND

REV. 3-11-14: ELIMINATED STIRRUPS.

REV. 05-15-18: REVISED CATCH BASIN

CORRECTED STANDARD SPECIFICATIONS

-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.

SECTION NUMBER TO 921 FOR NON

GENERAL NOTES, LEGEND AND

MINIMUM DEPTH.

COMPLIANCE WITH AASHTO LRFD BRIDGE

DESIGN SPECIFICATIONS, 4TH EDITION WITH

STANDARD RECTANGULAR CONCRETE

D-CB-14S

05-27-1995

CATCH BASIN