

## CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 28.00'

SIN	DIMENSI	FOR DESIGN USE ONLY	
LL SS S)	DIAMETER OF CUT-OUT HOLES (INCHES)	BOX SECTION MINIMUM HEIGHTS (INCHES)	CATCH BASIN MINIMUM DESIGN DEPTH (FEET)
	25	55	4.04
	32	62	4.58
	39	69	5.13
	46	76	5.67
	53	83	6.21
	60	90	6.75

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) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 51SC CONCRETE CATCH BASINS AND ALL PRECAST NO. 51SC CONCRETE CATCH BASINS. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL CONSTRUCTION NOTES & DETAILS.

(B) THIS DIMENSION MAY VARY FROM A MINIMUM OF O INCHES TO A MAXIMUM OF 24 INCHES AS LONG AS 24 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

(D) 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BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS UNLESS SUPERSEDED BY THIS DRAWING.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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM C913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.

(E) 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,  $F_{\gamma}$  = 60,000 POUNDS PER SQUARE INCH ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

(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 HIS OWN

THE CONTRACTOR MAY ELIMINATE THE A502 BARS BY LENGTHENING THE VERTICAL LEG OF THE H500 BARS SO THAT  $1\frac{1}{2}$  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.

(J) ALTERNATIVE JOINT DETAILS MAY BE ACCEPTABLE. SEE STANDARD DRAWING D-CB-99 FOR ADDITIONAL DETAILS.

ELEVATIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET

(L) FOR CASES WHERE THE OUTLET PIPE DIAMETER IS LARGER THAN THE INLET PIPE DIAMETER, A MINIMUM 24 INCH

(M) SEE STANDARD DRAWING D-CBB-31 FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.

(N) PAY DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION. PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611-51.02 CATCH BASINS, TYPE 51, > 4'-8' DEPTH THROUGH 611-51.07, CATCH BASINS, TYPE 51, > 24'-28' DEPTH PER EACH. PAYMENT INCLUDES RISER SECTION AND GRATE.

RCING STEEL LEGEND	MINOR REVISION FHWA APPROVAL NOT REQUIRED.
<u>38"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>12"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>13"</u> <u>1</u>	STATE OF TEMMESSEE Department of transportation
<sup>2</sup> <sup></sup>	STANDARD 5'2" X 5'2" SOUARE
OUTSIDE TO OUTSIDE OF BAR. STANDARD C.R.S.I. HOOK AS NOTED.	CONCRETE NO. 51 CATCH BASIN
	(FOR USE IN FRONT OF CONCRETE RETAINING WALL)
NOT TO SC	CALE 10-26-00 D-CB-51SC

- REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE (J) ADDED CATCH BASIN MAXIMUM DEPTH NOTE.
- REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE C
- REV. 9-11-02: CHANGED REINFORCING STEEL IN BASE SECTION.

REV. 8-01-12: REVISED CATCH BASIN FOR COMPLIANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH INTERIMS. REVISED REINFORCING, GENERAL NOTES. LEGEND AND ADDITIONAL MISC. DRAFTING EDITS.