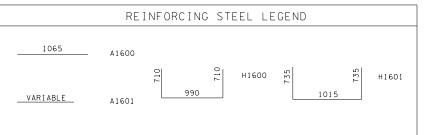


REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE J.

REV. 7-29-04: CORRECTED GENERAL NOTE (1).



CATCH BASIN

PIPE SI	ZE TABLE
MAX INLET OR OUTLET CONC. PIPE SIZE-STR. (mm)	MAX INLET OR OUTLET CONC. PIPE SIZE-90° (mm)
600	450

CATCH BASIN MAXIMUM DEPTH NOTE

MAXIMUM DEPTH FOR THIS STRUCTURE IS 1.37 m. WHEN DEPTH REQUIREMENTS EXCEED THIS DEPTH THE CONTRACTOR IS TO USE OTHER VERSIONS OF THE NO.28 CATCH BASIN.

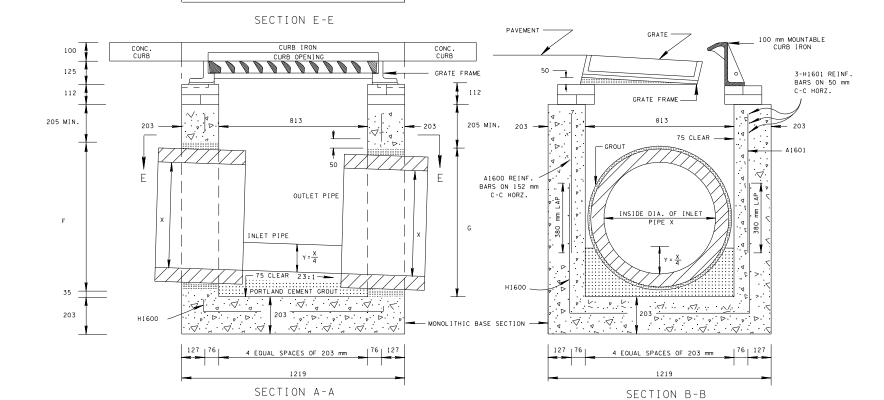
GENERAL NOTES

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 28 CONCRETE CATCH BASINS AND ALL PRECAST NO. 28 CONCRETE CATCH BASINS.
- (B) CAST-IN-PLACE CONCRETE CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- © 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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM M913 (CURRENT EDITION) UNLESS SUPERSEDED BY

CONCRETE: f_{c}^{\prime} = 28 MPa at 28 Days REINFORCING STEEL: ASTM A615M, f_{χ} = 415 MPa

ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

- 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 HIS OWN EXPENSE.
- © ADDITIONAL REINFORCING STEEL NECESSARY ABOVE THE CORED OR FORMED CUT-OUT HOLES TO MAINTAIN THE INTEGRITY OF THE STRUCTURE DURING HANDLING AND PLACEMENT SHALL BE THE RESPONSIBILITY OF THE FABRICATOR.
- (F) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR TO ASSURE BALANCED HANDLING DURING INSTALLATION OF THE CATCH BASIN.
- G THE CONTRACTOR IS TO PATCH ALL LIFTING DEVICE HOLES AND PLACE A MINIMUM OF 25 mm OF COVER OVER THE HARDWARE OF THESE DEVICES ON BOTH TOP AND BOTTOM SURFACES.
- (H) INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND
- (1) SEE STANDARD DRAWING DM-CBB-12C FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- D PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611M28.01 CATCH BASINS, TYPE 28, Om-1m DEPTH AND 611M28.02, CATCH BASINS, TYPE 28, > 1m-2m DEPTH PER EACH.



CURB IRON

В 🚤

PLAN VIEW

380 mm LAP

380 mm LAF

H1600

CATCH BASIN MINIMUM DEPTH TABLE				
INSIDE DIAMETER	MINIMUM DEPTH - (m)			
(X) OF PIPE (mm)	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE	
375	0.95	0.90	0.92	
450	1.04	0.97	1.01	
600	1.19	1.12	1.18	

- 1 DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION BASED ON INLET AND OUTLET PIPES BEING THE SAME DIAMETER, IF OUTLET PIPE IS GREATER ADJUSTMENT IN DEPTHS MUST BE MADE TO ACCOMMODATE
- (2) MINIMUM DEPTH TO BE REDUCED BY 35 mm WHERE ONLY OUTLET PIPE EXIST.
- TO DETERMINE FLOOR OF CATCH BASIN ELEVATION, WHEN INLET AND OUTLET PIPES ARE THE SAME SIZE, ADD PIPE WALL THICKNESS PLUS 40 mm TO THE ABOVE MINIMUM DEPTHS.

CUT-OUT	HOLES FOR I	NLET & OUTL	ET PIPES	
INSIDE DIAMETER	DIAMETER OF CUT-OUT HOLES F & G - (mm)			
(X) OF PIPE (mm)	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE	
375	560	455	510	
450	660	535	610	
600	815	685	785	

CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UNCUT WILL NOT BE PERMITTED.



MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

LOW PROFILE $813 \text{ mm} \times 813 \text{ mm}$ SQUARE CONCRETE NO.28LP CATCH BASIN (FOR USE WITH 100 mm MOUNTABLE CURB)

1-19-98 DM-CB-28LP

