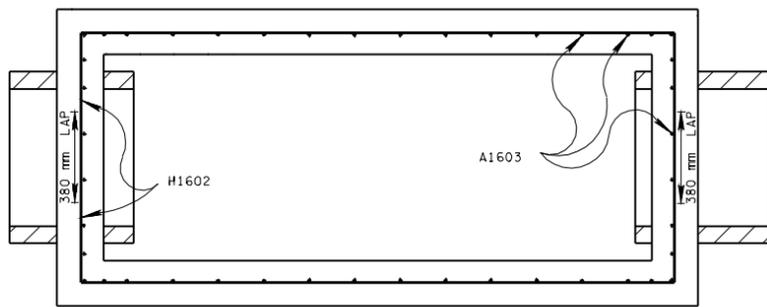


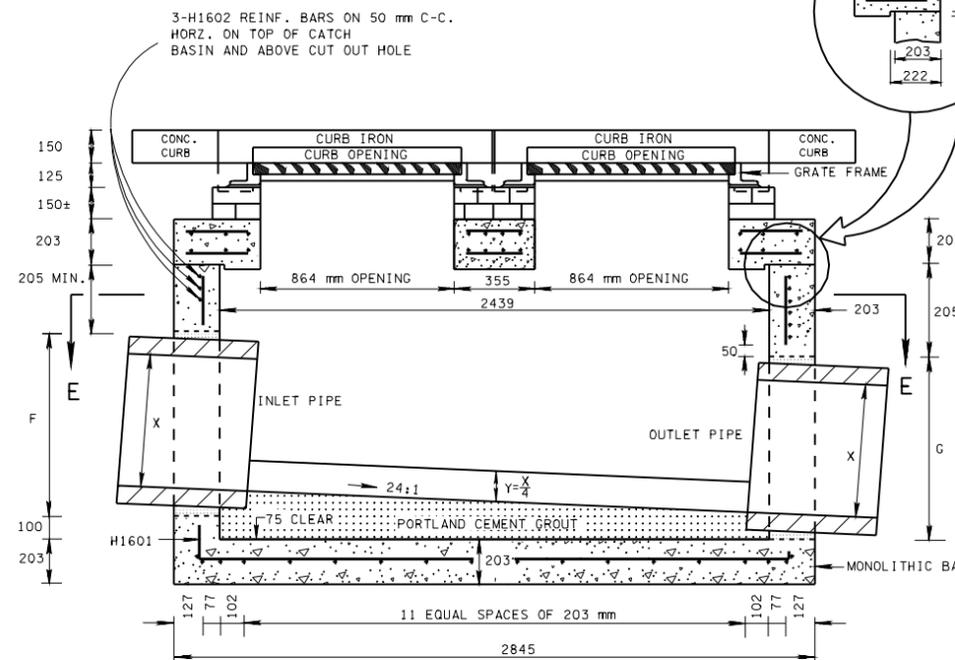
PLAN VIEW



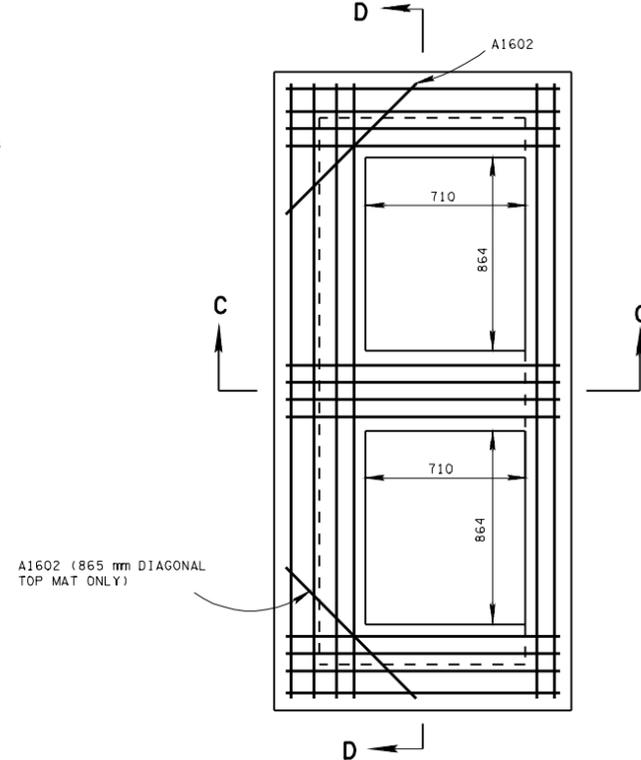
SECTION E-E

**CATCH BASIN MAXIMUM DEPTH NOTE**

MAXIMUM DEPTH FOR THIS STRUCTURE IS 6.1 m. WHEN DEPTH REQUIREMENTS EXCEED THIS DEPTH THE CONTRACTOR IS TO USE OTHER VERSIONS OF THE NO. 14 CATCH BASIN.

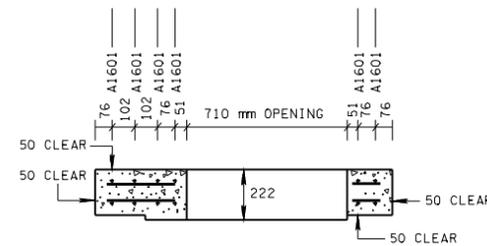


SECTION A-A

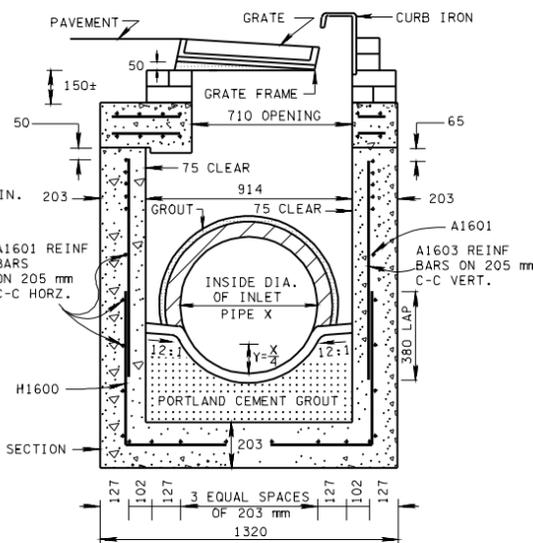


PLAN VIEW

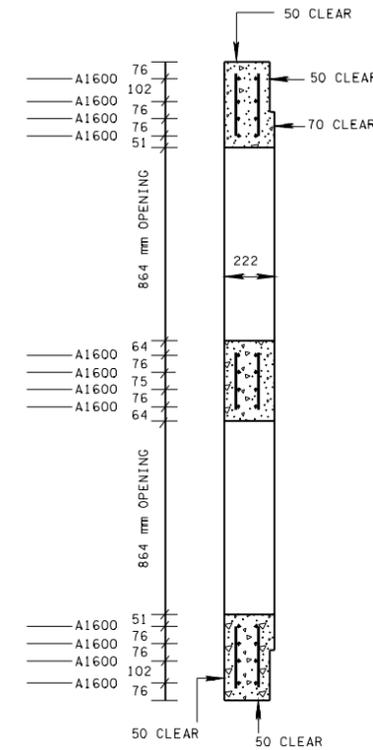
A1602 (865 mm DIAGONAL TOP MAT ONLY)



SECTION C-C



SECTION B-B



SECTION D-D

- REV. 1-19-99: MODIFIED CATCH BASIN MINIMUM DEPTH TABLE.
- REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE ①. ADDED CATCH BASIN MAXIMUM DEPTH NOTE.
- REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE ③.
- REV. 12-18-96: REMOVED 13 mm PREMOLED FIBER EXPANSION JOINT FROM SECTION "B-B". REMOVED OLD GENERAL NOTE ④. CHANGED LABEL OF LAST THREE GENERAL NOTES.
- REV. 10-26-97: CHANGED MINIMUM DEPTH TABLE AND MODIFIED STEEL IN BASE SECTION.

INSIDE DIAMETER (X) OF PIPE (mm)	MINIMUM DEPTH - (m)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	1.35	1.28	1.32
600	1.50	1.44	1.49
750	1.68	1.59	1.66
900	1.84	1.75	1.82

- 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 THIS SITUATION.
- ② 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.

INSIDE DIAMETER (X) OF PIPE (mm)	DIAMETER OF CUT-OUT HOLES F & G - (m)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	660	535	610
600	815	685	785
750	1015	840	990
900	1195	1015	1145

- ① 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 UNCUPT WILL NOT BE PERMITTED.
- ② TO BE USED IN FRONT AND BACK WALLS ONLY.

REINFORCING STEEL LEGEND			
1220	A1600		H1601
2745	A1601		
865	A1602		H1602
VARIABLE	A1603		

**GENERAL NOTES**

- (A) 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 3.0 METER IN DEPTH. SEE STANDARD DRAWING DM-CB-14P FOR DETAILS OF PRECAST NO. 14 CONCRETE CATCH BASINS 3.0 METER AND LESS IN DEPTH.
- (B) CAST-IN-PLACE CONCRETE CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
- (C) 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 THIS DRAWING.  
 CONCRETE:  $f'_c = 28 \text{ MPa}$  AT 28 DAYS  
 REINFORCING STEEL: ASTM A615M,  $F_y = 415 \text{ MPa}$   
 ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.
- (D) 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.
- (E) 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 OUTLET PIPES.
- (I) SEE STANDARD DRAWING DM-CBB-12A FOR DETAILS REGARDING CAST IRON GRATES, FRAMES AND CURB INLETS.
- (J) PAYMENT FOR CATCH BASIN WILL BE MADE UNDER ITEM NUMBERS 611M14.02 CATCH BASINS, TYPE 14, > 1m-2m DEPTH THROUGH 611M14.06 CATCH BASINS, TYPE 14, > 5m-6m DEPTH PER EACH.



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STANDARD RECTANGULAR CONCRETE NO.14 CATCH BASIN