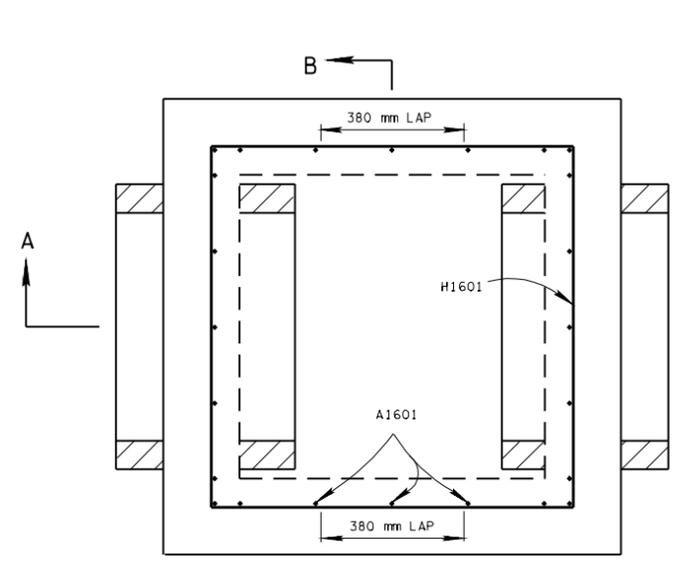
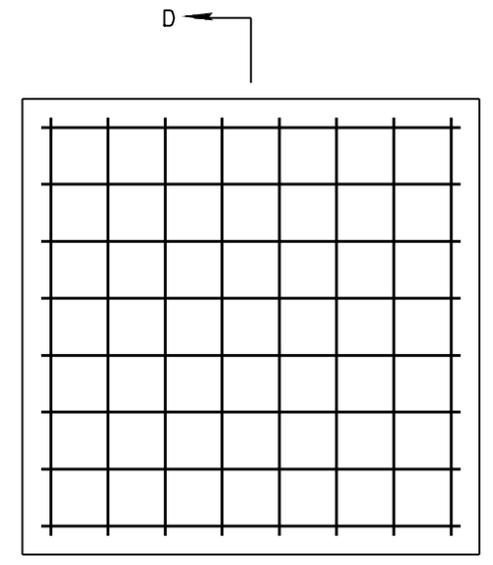


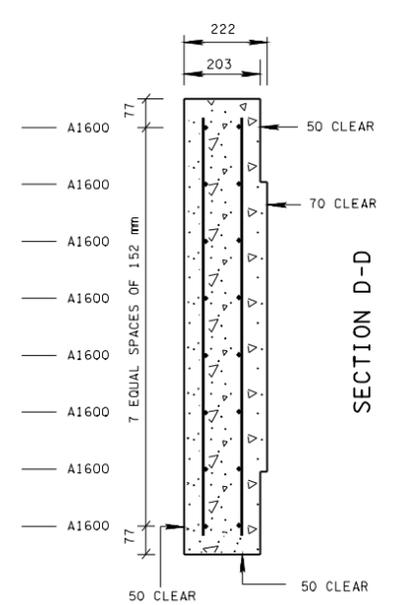
- REV. 1-19-00: DELETED NOTE ② UNDER JUNCTION BOX HEIGHT TABLE.
- REV. 6-10-01: CHANGED PAY ITEM IN GENERAL NOTE ① TO 611M02.10.
- REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE ①.



SECTION E-E



SECTION C-C



SECTION D-D

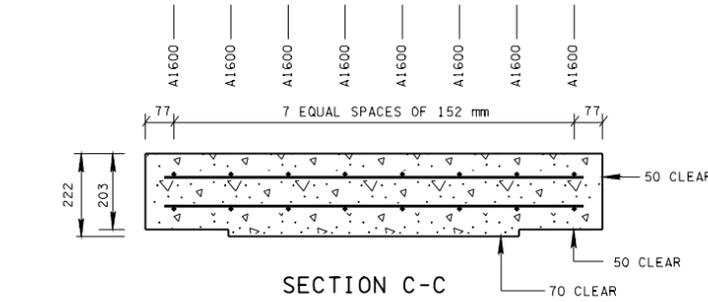
JUNCTION BOX PIPE SIZE TABLE	
MAX INLET OR OUTLET CONC. PIPE SIZE-STR. (mm)	MAX INLET OR OUTLET CONC. PIPE SIZE-90° (mm)
600	450

INSIDE DIAMETER (X) OF PIPE (mm)	MINIMUM DEPTH - (m)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	1.00	0.94	0.98
600	1.15	1.09	1.14

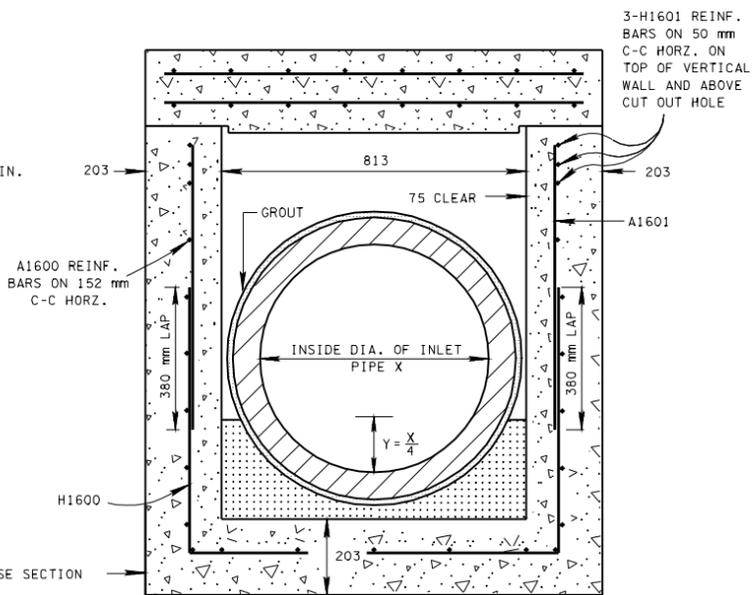
- ① DEPTH MEASUREMENT MADE FROM TOP OF GRATE TO OUTLET FLOW ELEVATION BASED ON INLET AND OUTLET PIPES BEING THE SAME DIAMETER, IF OUTLET PIPE IS GREATER ADJUSTMENT IN DEPTHS MUST BE MADE TO ACCOMMODATE THIS SITUATION.
- ② TO DETERMINE FLOOR OF CATCH BASIN ELEVATION, WHEN INLET AND OUTLET PIPES ARE THE 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 - (mm)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	660	535	610
600	815	685	785

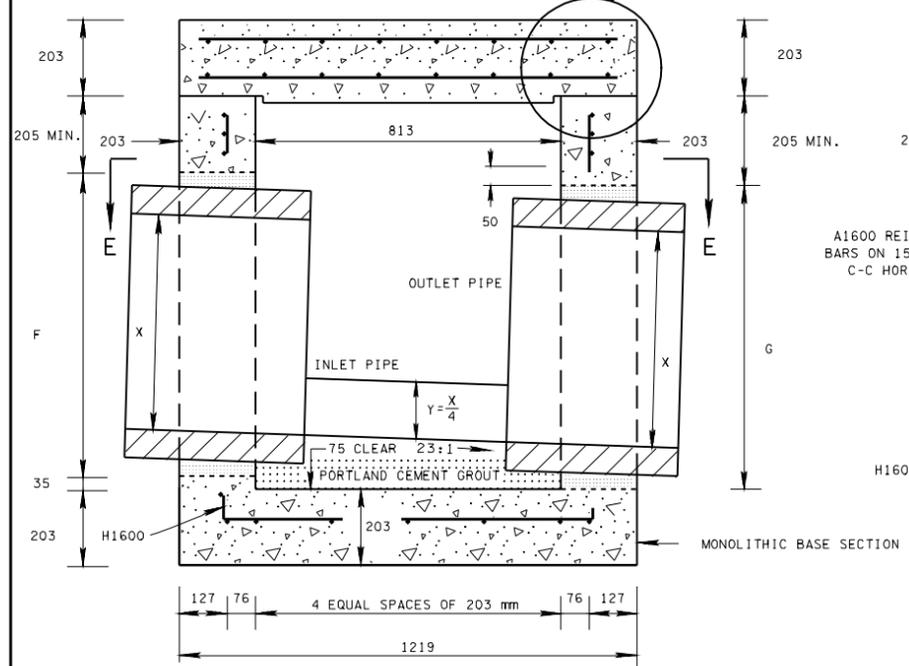
CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UN-CUT WILL NOT BE PERMITTED.



SECTION C-C



SECTION B-B



SECTION A-A

- ### GENERAL NOTES
- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 1 CONCRETE JUNCTION BOXES AND ALL PRECAST NO. 1 CONCRETE JUNCTION BOXES.
 - (B) EMBANKMENT OVER THIS STRUCTURE MAY BE PLACED AT A DEPTH UP TO 15 METERS.
 - (C) CAST-IN-PLACE CONCRETE JUNCTION BOXES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 611 AND/OR SPECIAL PROVISIONS.
 - (D) 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.
 - (E) PRECAST JUNCTION BOX UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED JUNCTION BOX UNITS AT HIS OWN EXPENSE.
 - (F) 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.
 - (G) APPROPRIATE SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR TO ASSURE BALANCED HANDLING DURING INSTALLATION OF THE JUNCTION BOX.
 - (H) 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.
 - (I) INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
 - (J) PAYMENT FOR JUNCTION BOX WILL BE MADE UNDER ITEM NUMBER 611M02.10 JUNCTION BOX, TYPE 1 PER EACH.

REINFORCING STEEL LEGEND	
	A1600
	A1601
	H1600
	H1601

ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

□ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD
813 mm x 813 mm
SQUARE CONCRETE
NO. 1
JUNCTION BOX

4-1-98 DM-JBS-1

