

- REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE ①.
- REV. 1-19-00: DELETED NOTE ② UNDER JUNCTION BOX HEIGHT TABLE. MODIFIED GENERAL NOTE ③.
- REV. 9-11-02: CHANGED REINFORCING STEEL IN BASE SECTION.
- REV. 6-10-01: CHANGED PAY ITEM IN GENERAL NOTE (1) TO 611M02.12.

JI	JUNCTION BOX HEIGHT TABLE				
INSIDE DIAMETER	MINIMUM HEIGHT - (m)				
(X) OF PIPE (mm)	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE		
450_	1.11	1.05	1.08		
600_	1.26	1.20	1.25		
750_	1.44	1.35	1.43		
900_	1.60	1.51	1.58		
1050	1.77	1.67	1.72		
1200	1.93	1.82	1.87		

- DEPTH MEASUREMENT MADE FROM TOP OF SLAB 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 JUNCTION BOX ELEVATION, WHEN INLET AND OUTLET PIPES ARE THE SAME SIZE, ADD PIPE WALL THICKNESS PLUS 40 mm TO THE ABOVE HEIGHT TABLE.

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
450_	<u>660</u> _	535_	610_
600_	815_	685_	785_
750_	1015	840_	990_
900_	1195	1015	1145
1050	1370	1170	1270
1200	1550	1320	1420

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 UNCUT WILL NOT BE PERMITTED.



GENERAL NOTES

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 3 CONCRETE JUNCTION BOXES AND ALL PRECAST NO. 3 CONCRETE
- (B) EMBANKMENT OVER THIS STRUCTURE MAY BE PLACED AT A DEPTH UP TO 15 METERS.
- 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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM M913 (CURRENT EDITION) UNLESS SUPERSEDED BY THIS DRAWING.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 MPa AT 28 DAYS REINFORCING STEEL: ASTM A615M, f_Y = 415 MPa ALL REINFORCING IS TO BE INSTALLED AS DETAILED ON THIS DRAWING.

- 70 CLEAR

SECTION

JUNCTION BOX PIPE SIZE TABLE

MAX INLET OR

OUTLET CONC.

PIPE SIZE-90°

(mm) 1050

229 _248_

MAX INLET OR

OUTLET CONC.

PIPE SIZE-STR.

(mm)

1200

A1601

A1601

A1601

- (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.
- © 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.
- () INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND
- (J) PAYMENT FOR JUNCTION BOX WILL BE MADE UNDER ITEM NUMBER 611MO2.12 JUNCTION BOX, TYPE 3 PER EACH.



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION STANDARD 1575 mm X 1575 mm SQUARE CONCRETE NO. 3 JUNC<u>TION BOX</u> 4-1-98__ <u>DM-JBS-3</u>