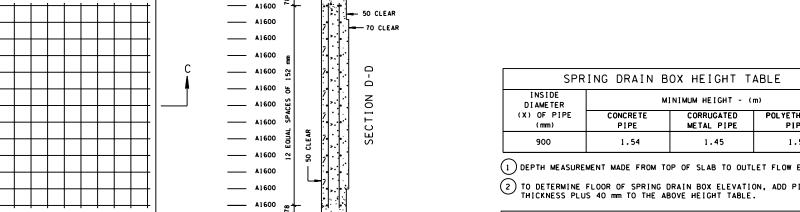


REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE ①



50 CLEAR

229

C

50 CLEAR

229

A1601 REINF BARS ON 203 m

248

T1600 (1372 mm DIA.)

228

MONOLITHIC BASE SECTION

- 203

PLAN VIEW

12 EQUAL SPACES OF 152 mm

SECTION C-C

1980

SECTION B-B

3-H1601 REINF. BARS ON 75 mm C-C. HORZ. ON TOP OF VERTICAL WALL AND ABOVE CUT OUT HOLE

7. 44.40

-75 CLEAR

- 50 CLEAR

50 CLEAR

SECTION E-E

2 2 2 2 7 EQUAL SPACES OF 152 mm 2 2 2 2 2 2

BOTTOM SLAB

1980

SECTION A-A

OUTLET PIPE

50 CLEAR

H1600

H1600

H1600

C1600 C1601

C1602

C1603

C1603

C1602

C1601

C1600

H1600

H1600

H1600

H1600

102 7

102

127

127

102

102

228

203

254 MIN.

127

	(X) OF PIPE	CONCRETE	CORRUGATED	POLYETHYLENE
	(mm)	PIPE	METAL PIPE	PIPE
	900	1.54	1.45	1.51
(1 DEPTH MEASURE	MENT MADE FROM TO	P OF SLAB TO OUTL	ET FLOW ELEVATIO
(2) TO DETERMINE	FLOOR OF SPRING D	RAIN BOX ELEVATIO	ON, ADD PIPE WALL

	CUT-OUT HOLES FOR PIPES					
INSIDE	DIAMETER OF CUT-OUT HOLES					
DIAMETER	F - (mm)					
(X) OF PIPE	CONCRETE	CORRUGATED	POLYETHYLENE			
(mm)	PIPE	METAL PIPE	PIPE			
900	1195	1015	1145			

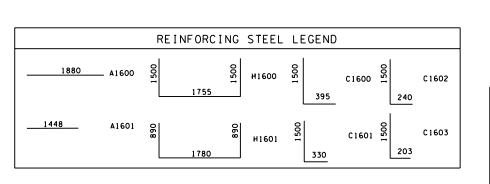
CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UNCUT WILL NOT BE PERMITTED.

GENERAL NOTES

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 3A CONCRETE SPRING DRAIN BOXES AND ALL PRECAST NO. 3A CONCRETE SPRING DRAIN BOXES.
- (B) EMBANKMENT OVER THIS STRUCTURE MAY BE PLACED AT A DEPTH UP TO 15 METERS.
- C CAST-IN-PLACE CONCRETE SPRING DRAIN 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CATCH BASINS FOR CAST-IN-PLACE CATCH BASINS PROVIDED THAT ALL PRECAST ELEMENTS MEET ASTM M913 (CURRENT EDITION) UNLESS SUPERSEDED BY

CONCRETE: f'_c = 28 MPa at 28 Days REINFORCING STEEL: ASTM A615M, f_γ = 415 MPa all reinforcing is to be installed as detailed on this drawing.

- E PRECAST SPRING DRAIN BOX UNITS WHICH ARE DAMAGED DURING SHIPMENT OR INSTALLATION WILL BE REJECTED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE DAMAGED SPRING DRAIN BOX UNITS AT HIS OWN
- (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 SPRING DRAIN 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.
- ① INVERT ELEVATIONS ARE TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ORDER TO ACCOMMODATE INLET AND OUTLET PIPES.
- J PAYMENT FOR SPRING DRAIN BOX WILL BE MADE UNDER ITEM NUMBER 611M02.04 SPRING DRAIN BOX, TYPE 3A PER EACH.





ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

DEPARTMENT OF TRANSPORTATION STANDARD $1575 \text{ mm} \times 1575 \text{ mm}$ SQUARE CONCRETE NO. 3A SPRING DRAIN BOX 5-27-98 DM-SDS-3A