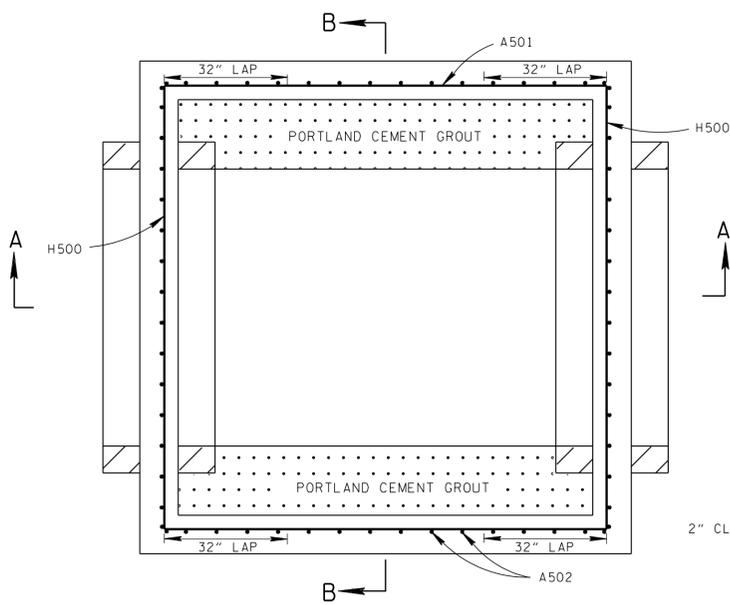
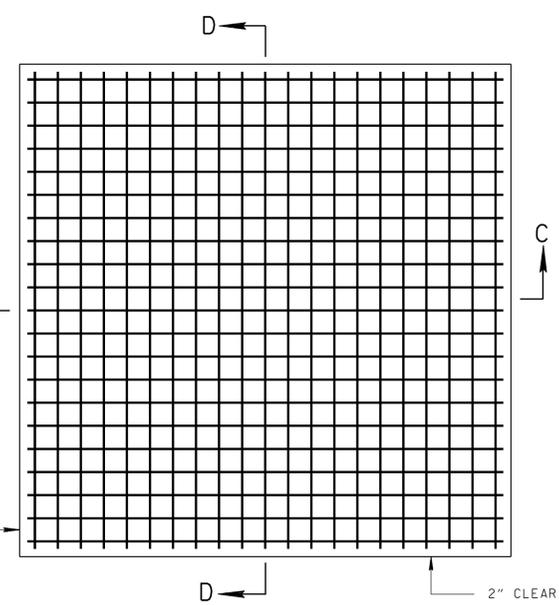


- ❑ REV. 6-10-01: CHANGED MAXIMUM EMBANKMENT DEPTH IN GENERAL NOTE (B) AND PAY ITEM IN GENERAL NOTE (J) TO 611-02.14.
- ❑ REV. 5-30-02: MODIFIED REINFORCING STEEL.
- ❑ REV. 7-29-02: CHANGED ASTM SPECIFICATION IN GENERAL NOTE (D).
- ❑ REV. 9-11-02: CHANGED REINFORCING STEEL IN BASE SECTION.

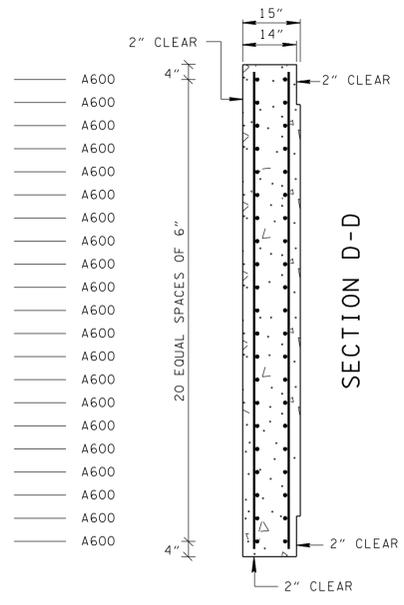


SECTION E-E

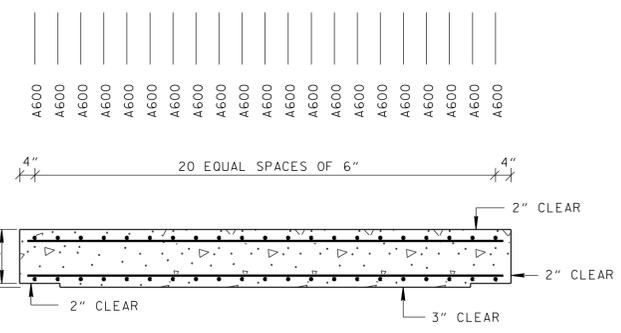
JUNCTION BOX PIPE SIZE TABLE	
MAX INLET OR OUTLET CONC. PIPE SIZE-STR. (INCHES)	MAX INLET OR OUTLET CONC. PIPE SIZE-90° (INCHES)
78	72



SECTION D-D



REINFORCING STEEL LEGEND			
124"	A600	32"	H500
114"	A501		
VARIABLE	A502		



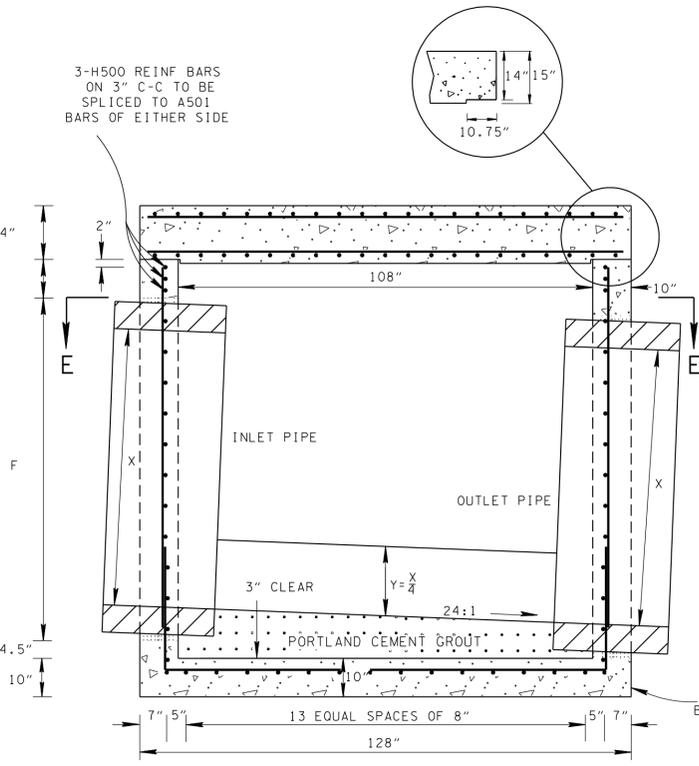
SECTION C-C

INSIDE DIAMETER (X) OF PIPE (INCHES)	DIAMETER OF CUT-OUT HOLES F & G - (INCHES)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
18	26	21	24
24	32	27	31
30	40	33	39
36	47	40	45
42	54	46	50
48	61	52	56
54	68	58	—
60	75	64	—
66	82	70	—
72	89	76	—
78	96	82	—

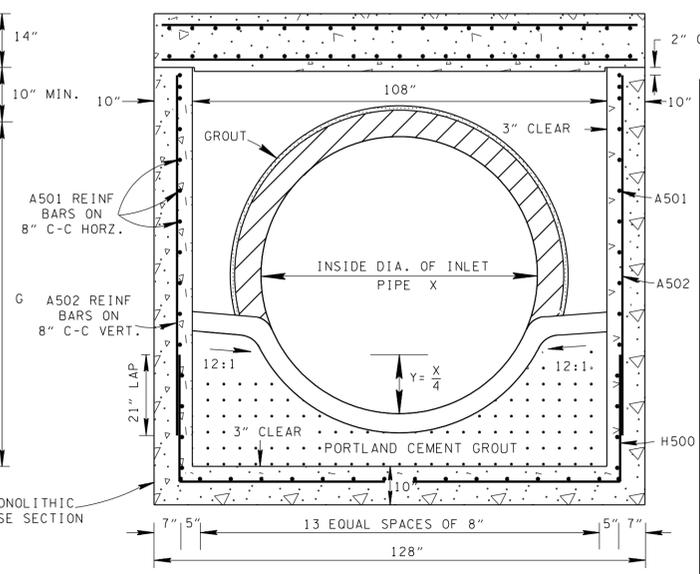
CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UN CUT WILL NOT BE PERMITTED.

INSIDE DIAMETER (X) OF PIPE (INCHES)	MINIMUM HEIGHT - (FEET)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
18	4.21	4.00	4.13
24	4.71	4.50	4.67
30	5.29	5.00	5.25
36	5.83	5.54	5.75
42	6.38	6.04	6.21
48	6.92	6.54	6.71
54	7.46	7.04	—
60	8.00	7.54	—
66	8.54	8.04	—
72	9.08	8.54	—
78	9.63	9.04	—

- (1) 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 1.5" TO THE ABOVE HEIGHT TABLE.



SECTION A-A



SECTION B-B

GENERAL NOTES

- (A) DRAWING TO BE USED FOR ALL CAST-IN-PLACE NO. 5 CONCRETE JUNCTION BOXES AND ALL PRECAST NO. 5 CONCRETE JUNCTION BOXES.
- (B) EMBANKMENT OVER THIS STRUCTURE MAY BE PLACED AT A DEPTH UP TO 30 FEET.
- (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: $F_c = 4,000$ POUNDS PER SQUARE INCH AT 28 DAYS
REINFORCING STEEL: ASTM A615, $F_y = 60,000$ POUNDS PER SQUARE INCH
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 ONE(1) INCH 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 611-02.14 JUNCTION BOX, TYPE 5 PER EACH.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD 9' X 9'
SQUARE CONCRETE
NO. 5
JUNCTION BOX