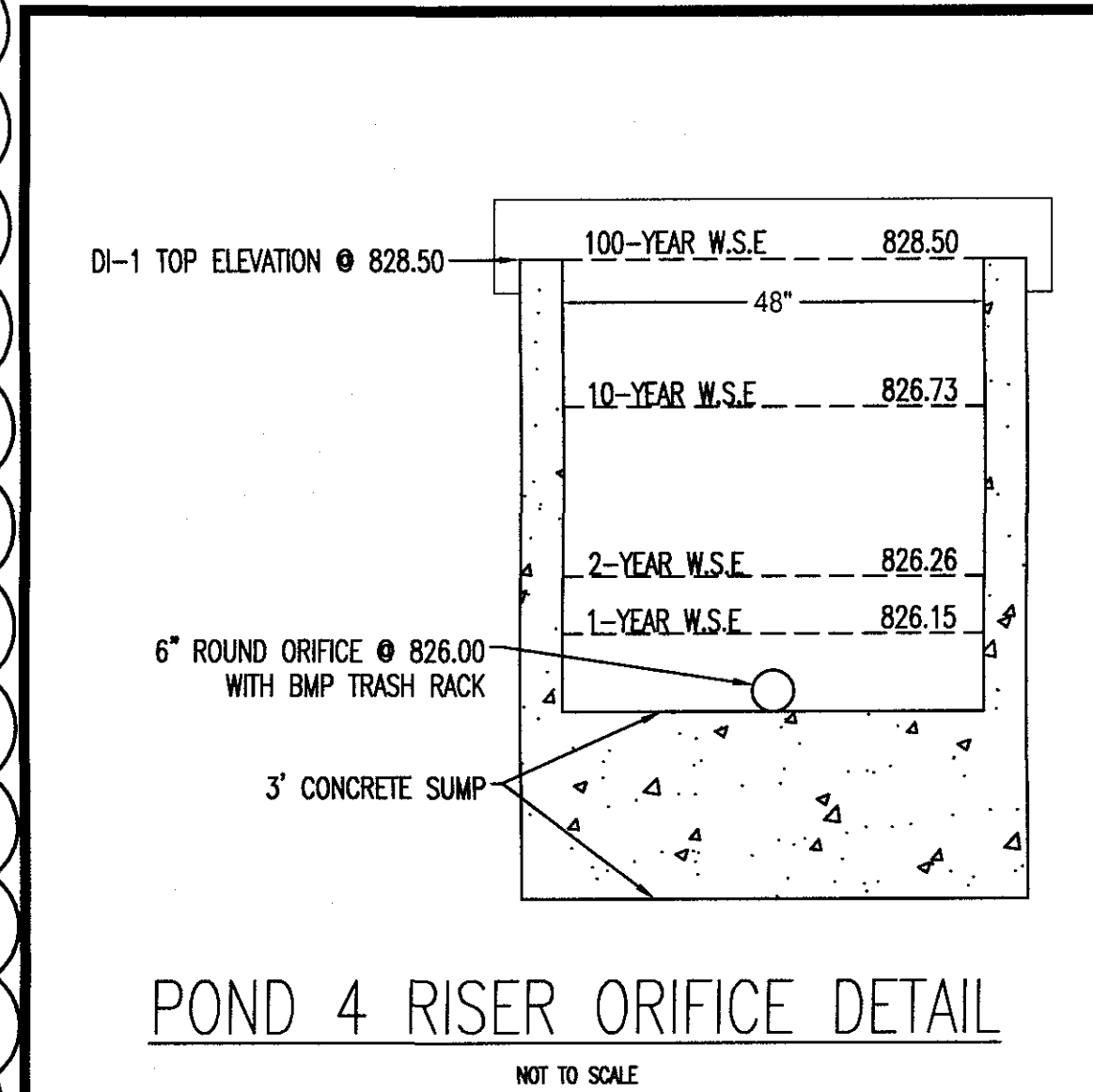
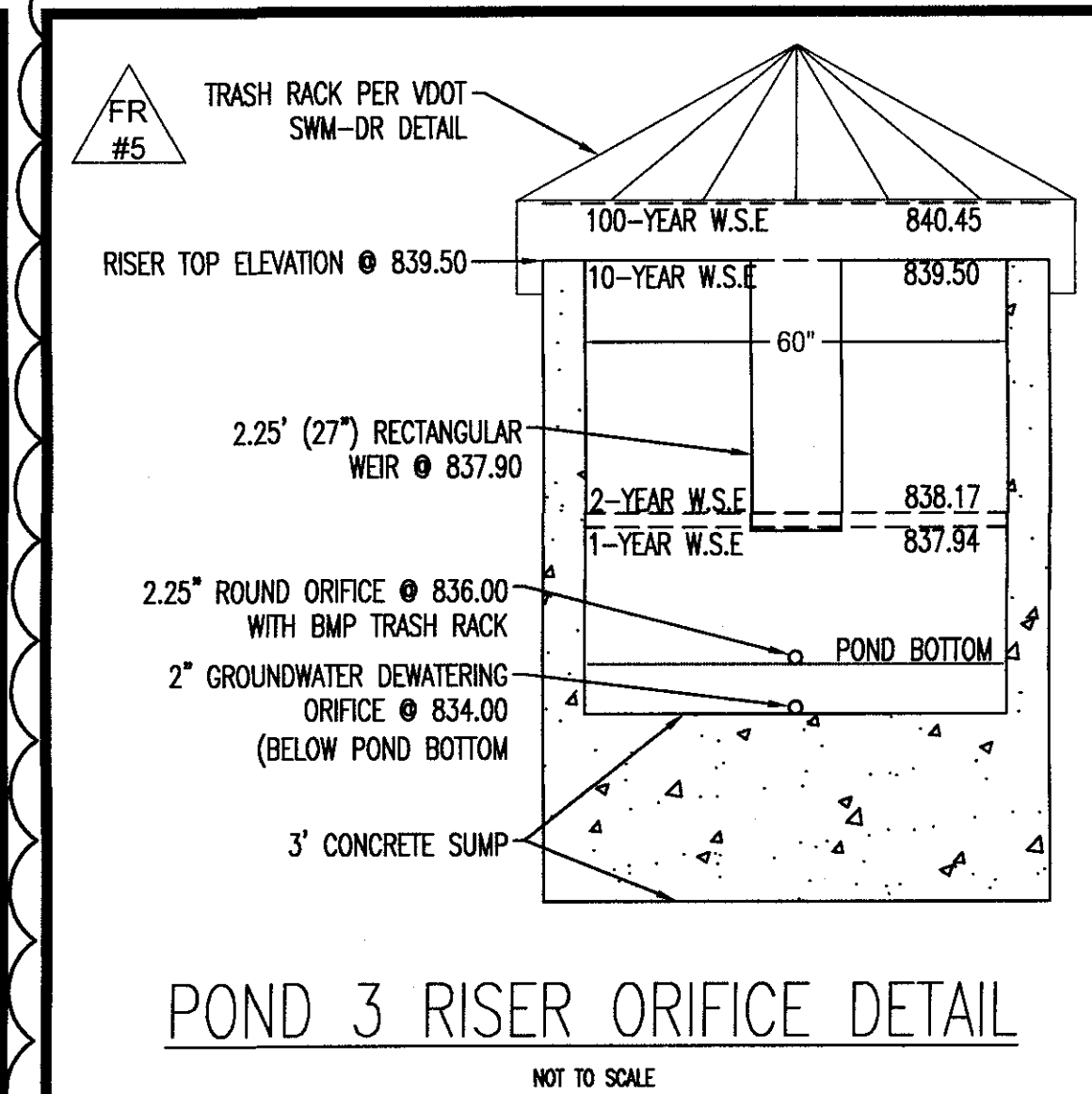
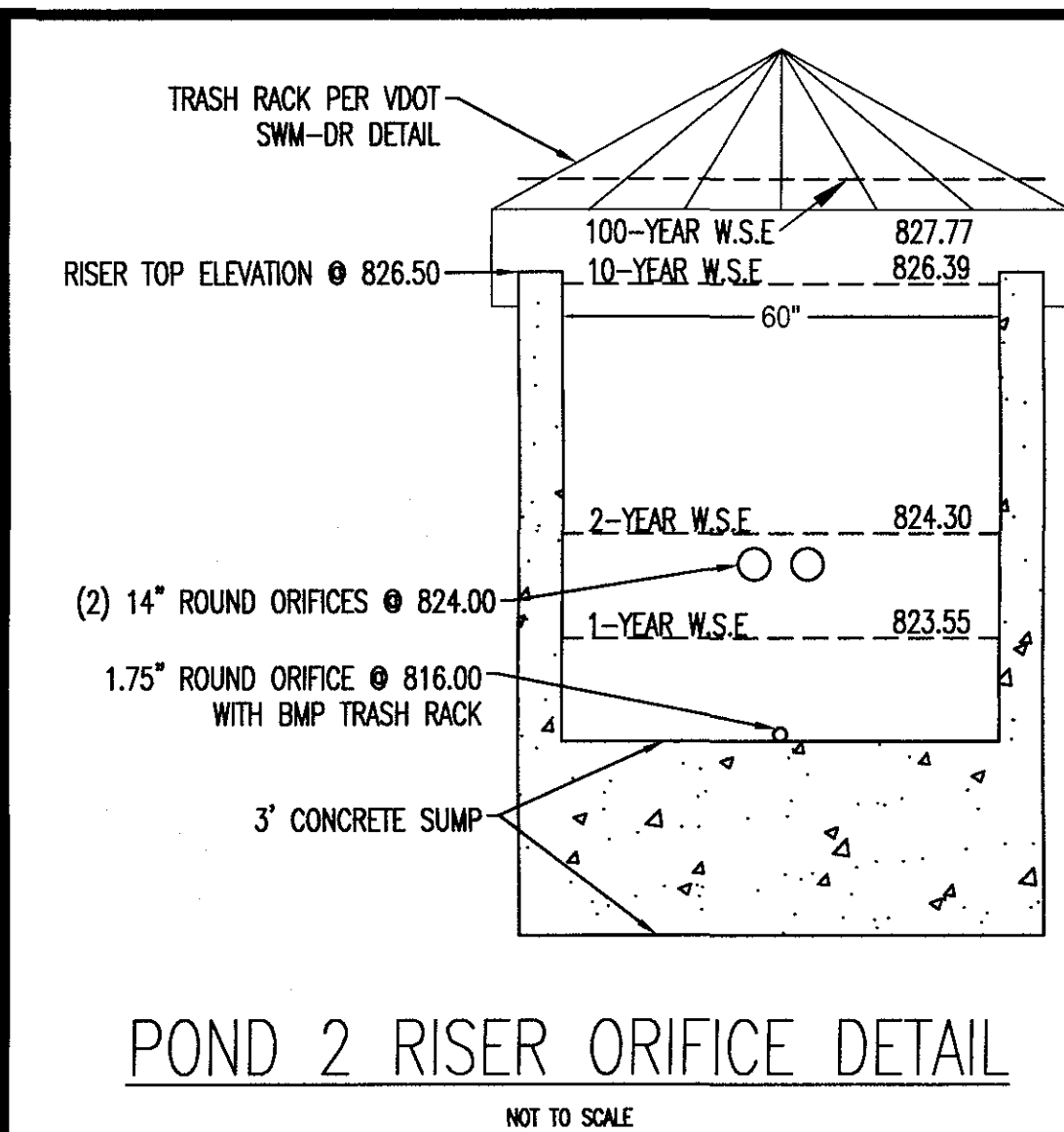
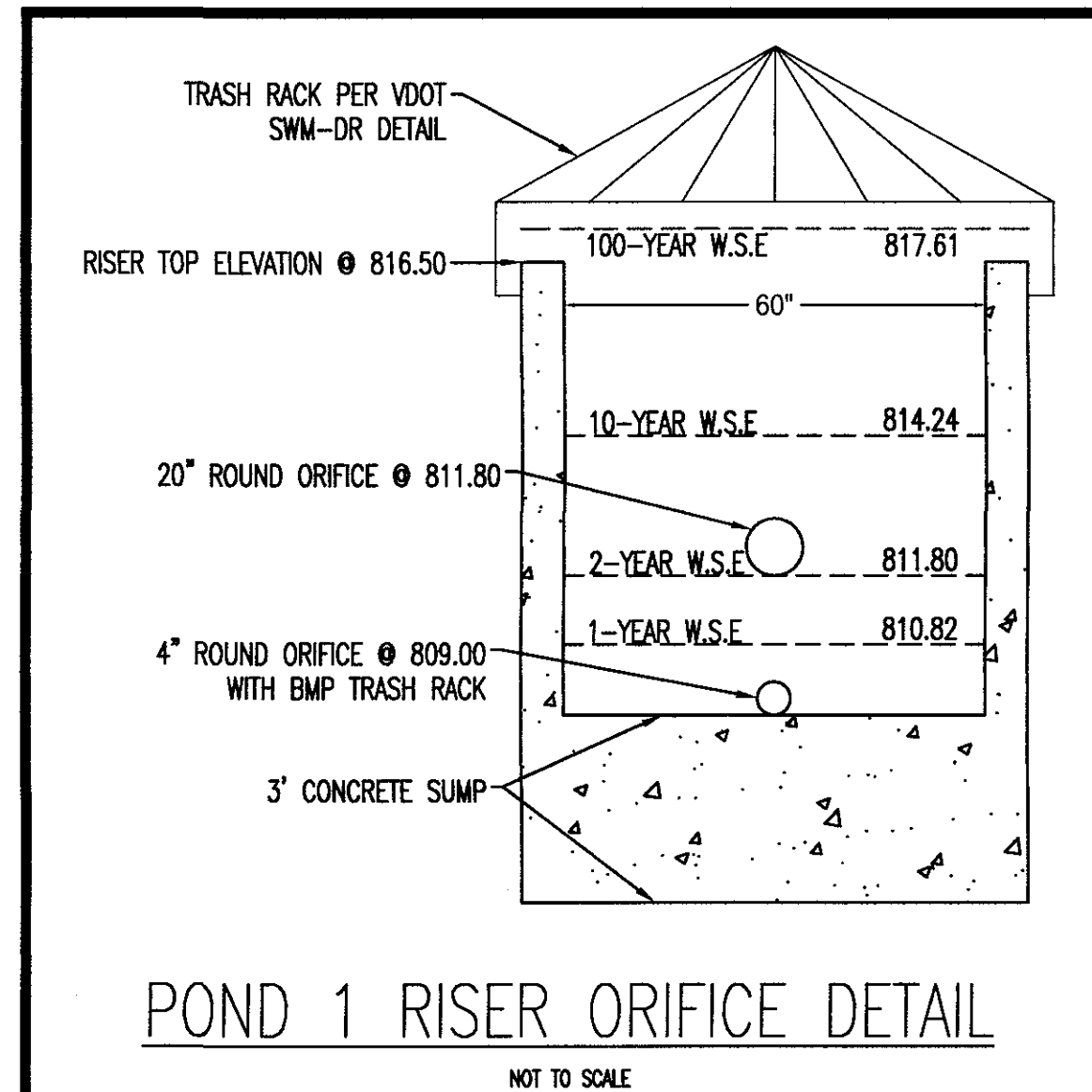
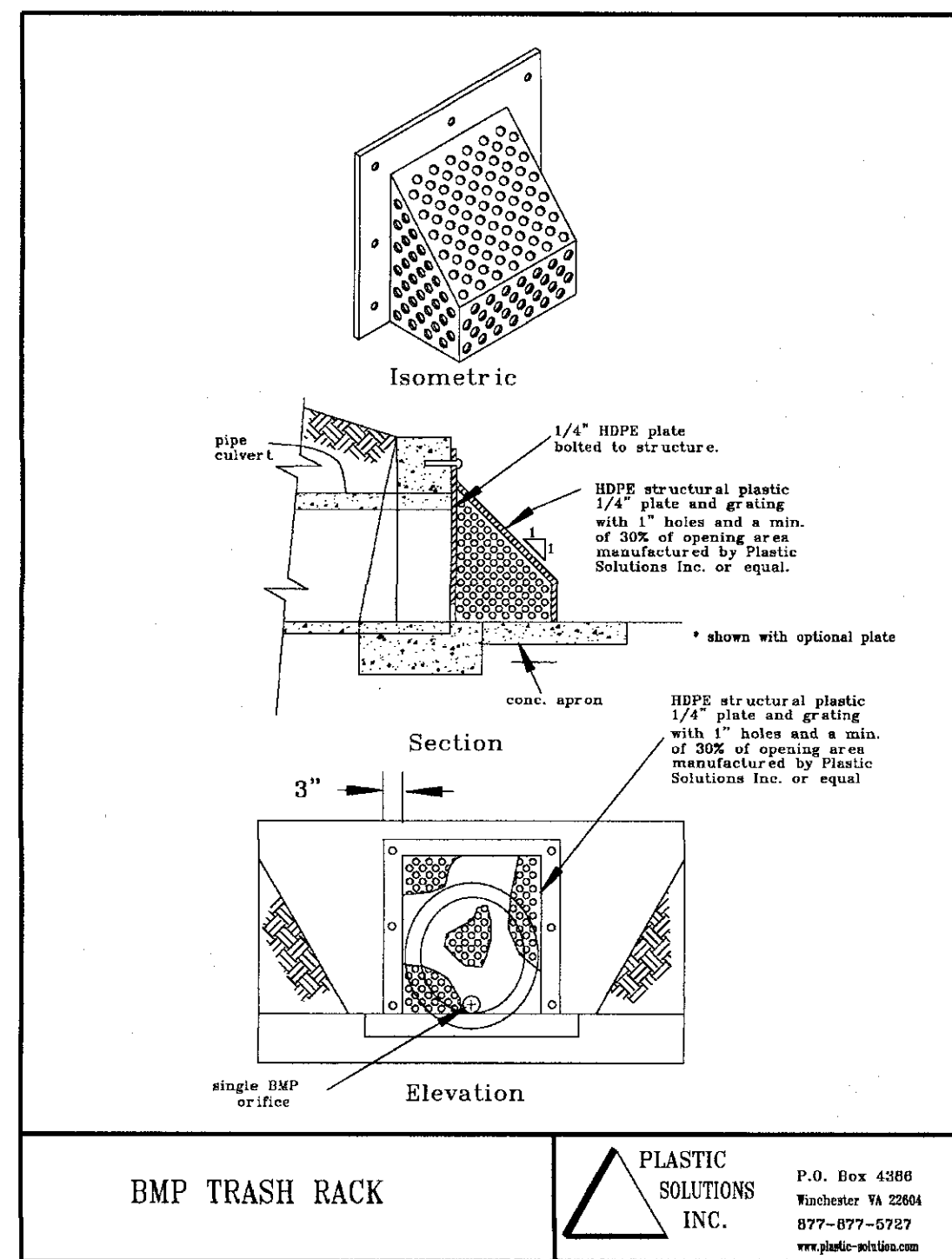




* ALL POND RISERS SHALL MEET THE REQUIREMENTS OF SWM-1 ON SHEET C30A INCLUDING THE USE OF A 3" CONCRETE SUMP. A 3" CONCRETE SUMP IS TO BE UTILIZED ON RISER 4 AS WELL.

PC 10

DIAMETER INCHES	AREA SQ. FT.	MAXIMUM HEIGHT OF COVER IN FEET				DIAMETER INCHES
		NONREINFORCED CONCRETE (STRENGTH) (SEE NOTE 4)	REINFORCED CONCRETE CLASS			
			III	IV	V	
12	0.8	14' (1800)	14'	19'	29'	12
15	1.2	14' (2125)	14'	19'	29'	15
18	1.8	14' (2400)	14'	20'	29'	18
21	2.4	13' (2700)	14'	20'	29'	21
24	3.1	13' (3000)	14'	20'	29'	24
27	4.0		14'	20'	29'	27
30	4.9		14'	20'	29'	30
33	5.9		14'	20'	29'	33
36	7.1		14'	20'	30'	36
42	9.8		14'	21'	30'	42
48	12.6		14'	21'	30'	48
54	15.9		14'	21'	30'	54
60	19.6		14'	21'	30'	60
66	23.8		14'	21'	30'	66
72	28.3		14'	21'	30'	72
78	33.2		14'	21'	30'	78
84	38.5		14'	21'	30'	84
90	44.4		14'	21'	30'	90
96	50.3		14'	21'	30'	96
102	56.7		14'	21'	30'	102
108	63.6		14'	21'	30'	108

NOTES:

- COVER HEIGHTS INDICATED IN TABLES ARE FOR FINISHED CONSTRUCTION.
- TO PROTECT PIPE DURING CONSTRUCTION, MINIMUM HEIGHTS OF COVER PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION ARE TO BE 1/2" DIAMETER OR 30" WHICHEVER IS GREATER. THE COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE. THE APPROACH FILL RAMP IS TO EXTEND A MINIMUM OF 100 DIAMETER X 30" ON EACH SIDE OF THE PIPE, OR TO THE INTERSECTION WITH A CUT.
- STANDARD MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES EXCEPT THOSE UNDER ENTRANCES SHALL BE 2.0' OR 1/2" DIAMETER, WHICHEVER IS GREATER. IN CASES IN WHICH THESE COVER HEIGHTS CANNOT BE ACHIEVED, AN ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED. THE MINIMUM FINISHED HEIGHT OF COVER FOR PIPES UNDER ENTRANCES IS 9".
- CRUSHING STRENGTH (POUNDS PER LINEAR FOOT ULTIMATE STRENGTH)
- FOR HEIGHT OF COVER GREATER THAN THAT SHOWN FOR CLASS V, A SPECIAL DESIGN CONCRETE PIPE IS REQUIRED.
- NONREINFORCED PIPE TO BE USED ONLY UNDER ENTRANCES AND LOWER FUNCTIONAL CLASSIFICATION (LFC) ROADWAYS (SEE SHEET 17 OF 18).
- SEE STANDARD PH-1 FOR PIPE BEDDING AND RAINFALL REQUIREMENTS.
- PIPE WITH LESS THAN THE STANDARD MINIMUM COVER IS TO BE MINIMUM CLASS II REINFORCED.

SPECIFICATION
REFERENCE

302
232

CONCRETE PIPE

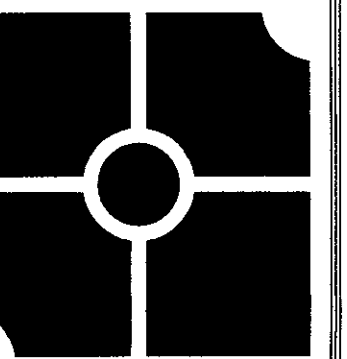
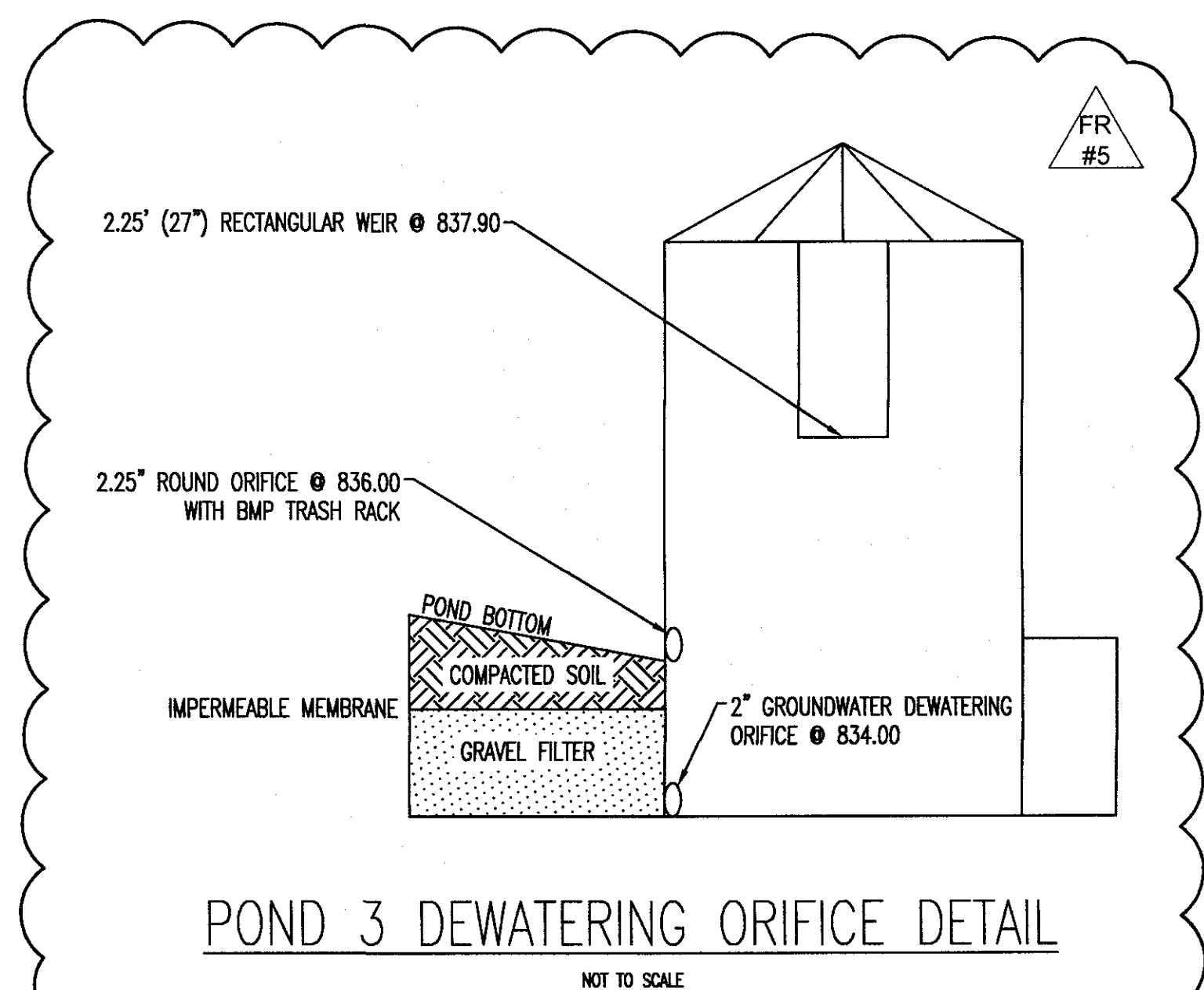
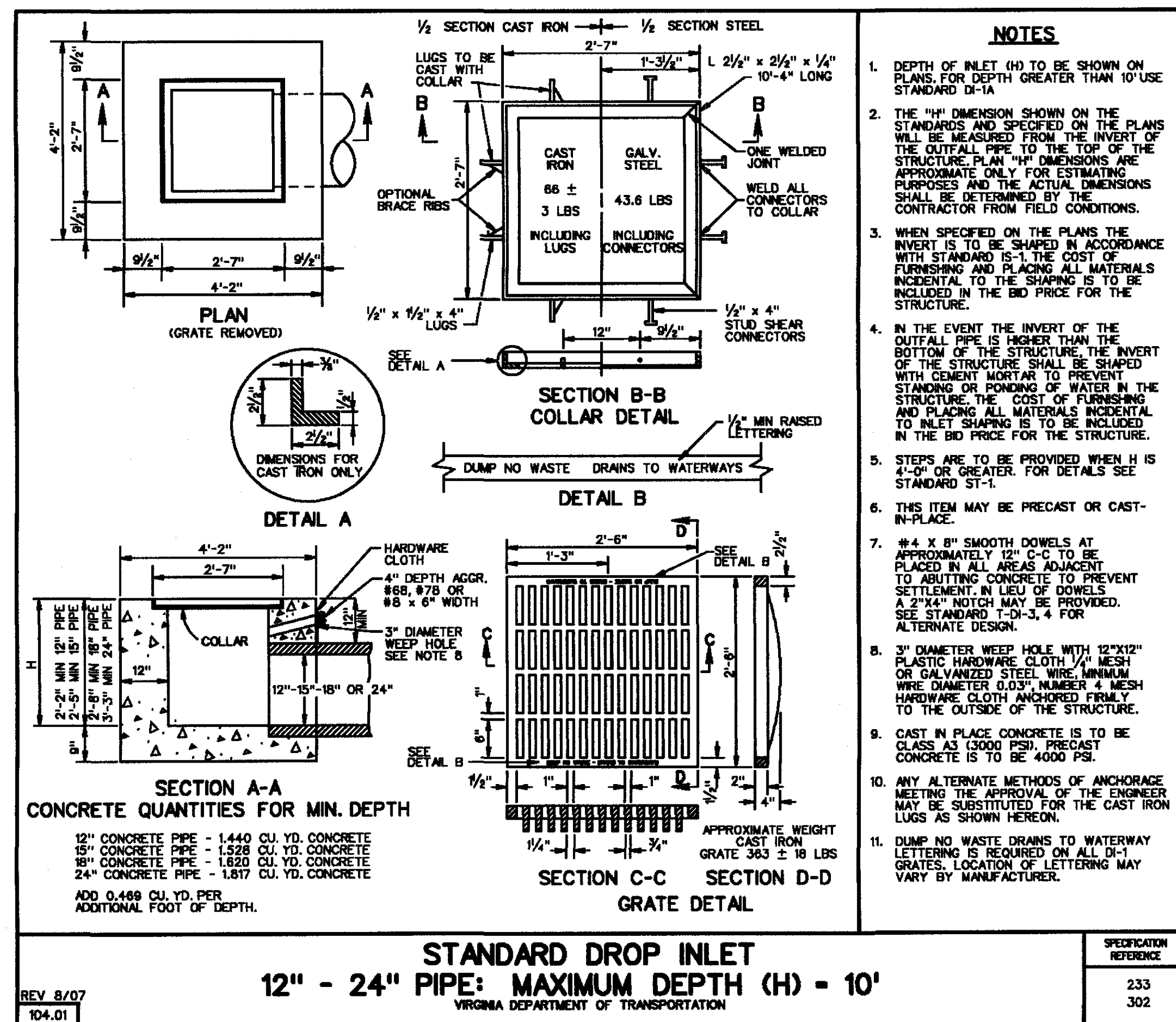
HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD

VIRGINIA DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 18

REV. 7/05

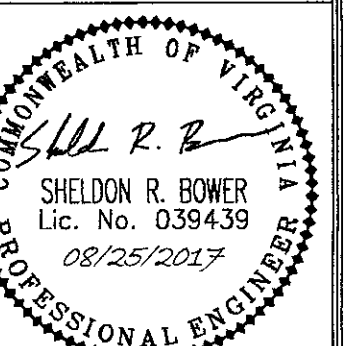
107.05



parker
DESIGN GROUP

2122 Carolina Ave. SW
Roanoke, VA 24014
Ph: 540-387-1153
Fax: 540-389-5767
1915-B W. Cary Street
Richmond, VA 23220
Phone: 804-358-2947
Fax: 804-359-9645
www.parkerdg.com

These documents are the property of Parker Design Group (PDG) and may not be reproduced or used without the express permission of PDG. Any reuse of these documents without authorization of PDG will be at the sole risk of the individual or entity using said documents.



**KENNEDY SHORES
SUBDIVISION DEVELOPMENT PLAN**

Tax # 0510001500
Franklin County, Virginia

REVISIONS:

2/10/2017 - 1ST SUB COMMENTS
3/21/2017 - 2ND SUB COMMENTS
4/14/2017 - 3RD SUB COMMENTS
6/23/2017 - FIELD REVISION #1
7/26/2017 - FIELD REVISION #2
8/4/2017 - FIELD REVISION #3
8/9/2017 - FIELD REVISION #4
8/28/2017 - FIELD REVISION #5

DESIGNED BY: JMM/SRB
DRAWN BY: JMM/JLK
CHECKED BY: SRB

DATE:
6 JANUARY, 2017
SHEET TITLE:
POND RISER
DETAILS
SCALE:
NTS
SHEET NO.

C30