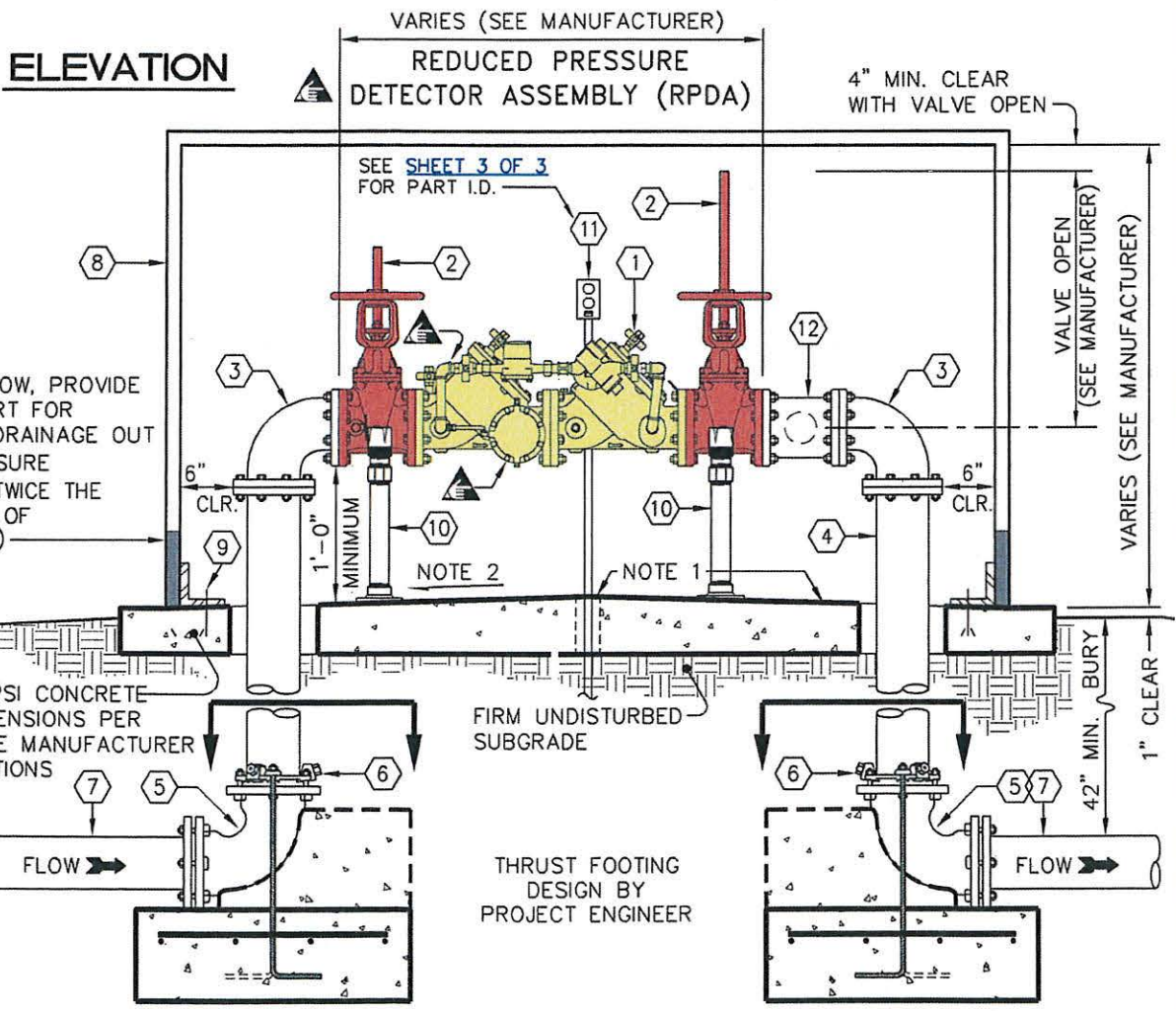


**-FIRE ONLY-  
-OUTSIDE INSTALL ONLY-  
MUST BE INSTALLED WITHIN 50'  
OF DOMESTIC TEE**



Dept. of Water Management  
1600 Mist Lake Dr.  
Durham, N.C. 27704

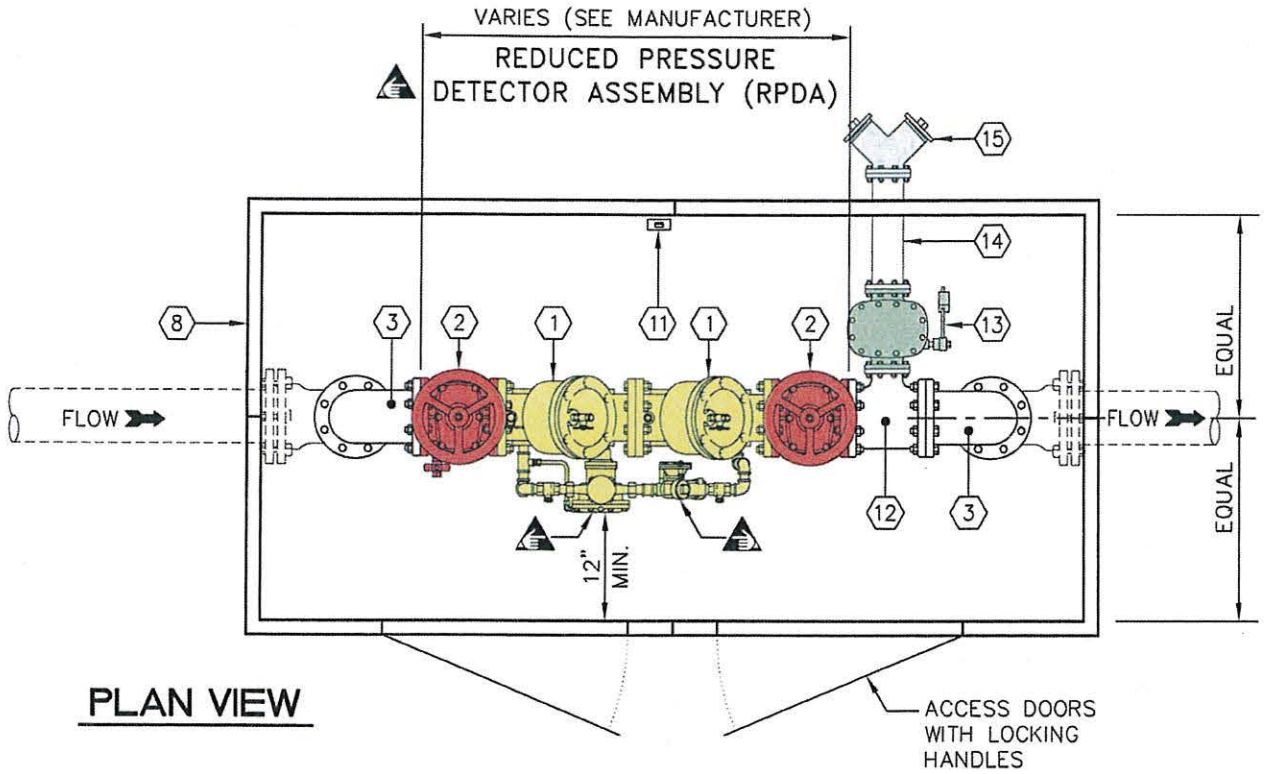
**City of Durham, NC**  
USE WITH THE STANDARD SPECIFICATIONS ONLY

Voice (919) 560-4381  
www.durhamnc.gov

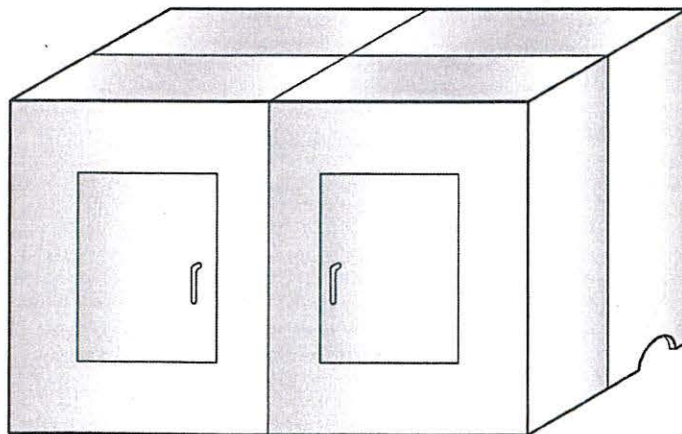
**2 1/2" to 12" FIRE ONLY WITH FDC  
RPDA ONLY (ABOVE GROUND)**

SCALE: Not To Scale	DETAIL # 2 516.12
REVISION DATE: Feb., 2017	SHEET #: 1 of 3

**-FIRE ONLY-  
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TYPICAL BOX



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SCALE: Not To Scale	DETAIL # 2516.12
REVISION DATE: Feb., 2017	SHEET #: 2 of 3



#	PART	MANUFACTURER MODEL / Cat. No.
1	BACKFLOW ASSEMBLY	ASSE APPROVED LIST PROVIDED AT <a href="http://www.ASSE-Plumbing.org">www.ASSE-Plumbing.org</a>
2	OS&Y GATE VALVE WITH RESILIENT SEATS	ASSE APPROVED LIST PROVIDED AT <a href="http://www.ASSE-Plumbing.org">www.ASSE-Plumbing.org</a>
3	90° DIP FLANGE x FLANGE ELBOW	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., or U.S. PIPE & FOUNDRY
4	DIP FLANGE x PE PIPE (VERIFY LENGTH) (ALL MATERIALS TO CONFORM TO NC STATE PLUMBING CODE)	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
5	90° DIP MJ x MJ ELBOW	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., or U.S. PIPE & FOUNDRY
6	WEDGE ACTION RESTRAINER GLAND JOINT RESTRAINT	EBBA IRON SALES, INC., FORD
7	3" THRU 12" DIP (ALL MATERIALS TO CONFORM TO NC STATE PLUMBING CODE)	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., or U.S. PIPE & FOUNDRY
8	INSULATED ENCLOSURE WITH LOCKING ACCESS DOORS AND HEATER (120 V, 1 PHASE, 60 HZ) VERIFY FITTINGS WILL FIT INSIDE BOX BEFORE ORDERING. HEATER REQUIRED FOR FIRE ONLY.	HOTBOX / HB4E - HB10E (OR APPROVED EQUIVALENT) ASSE 1060 APPROVAL
9	STAINLESS STEEL EXPANSION ANCHOR BOLTS PER BOX MANUFACTURER RECOMMENDED SIZE & SPACING	---
10	ADJUSTABLE PIPE SUPPORTS HOT DIP GALVANIZED OR MASONRY SUPPORT. SUPPORTS SHALL BE LOCATED WHERE THEY WILL NOT INTERFERE WITH CLEANING & MAINTENANCE OF THE BACKFLOW.	SHOP FABRICATED AND HOT DIP GALVANIZED OR "STANDON" MODEL S92 SADDLE SUPPORT OR MASONRY SUPPORT
11	PROVIDE 120V RECEPTACLE ON GFCI NEAR PIPE RISER, SET MINIMUM 12" ABOVE DISCHARGE POINT OF RPDA. (AS APPLICABLE)	UL STD. 943-NEMA 3R.
12	DIP FLANGE x FLANGE X FLANGE TEE	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
13	4" DIAMETER, FM-UL APPROVED LISTED CHECK VALVE SHALL BE LOCATED IN AN ACCESSABLE LOCATION.	NFPA 13 AND/OR NFPA 24
14	DIP FLANGE x FLANGE PIPE (VERIFY LENGTH) (ALL MATERIALS TO CONFORM TO NC STATE PLUMBING CODE)	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., U.S. PIPE & FOUNDRY
15	SIAMESE FIRE DEPARTMENT CONNECTION (FDC) WITH CITY OF DURHAM STANDARD THREADS	TO BE APPROVED BY CITY OF DURHAM

**NOTES:**

1. Pipes, bends, tees, and gate valves are the same size as the RPDA size. (i.e. 6" RPDA has 6" pipe, 6" 90° bends, 6"x6" tees and 6" gate valves.)
2. All dimensions should be checked before ordering the vault box. Coordinate with city of Durham water & sewer maintenance division.
3. Use only meters, strainers and gate valves approved by the City of Durham, see [pre-approved product list](#).
4. Provide minimum 3" annular clearance around all DIP risers and 1" around electrical conduit.
5. Slope floor to drain to ports at both ends. Ensure positive surface grade away from enclosure.
6. Minimum clearance 12" from ground, Maximum 60" to highest part of backflow & 6" clearance on all sides from walls.



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