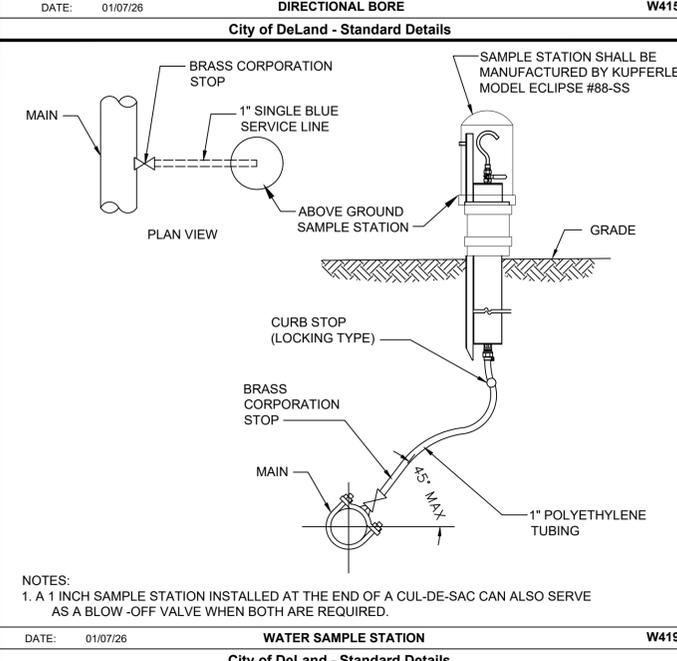
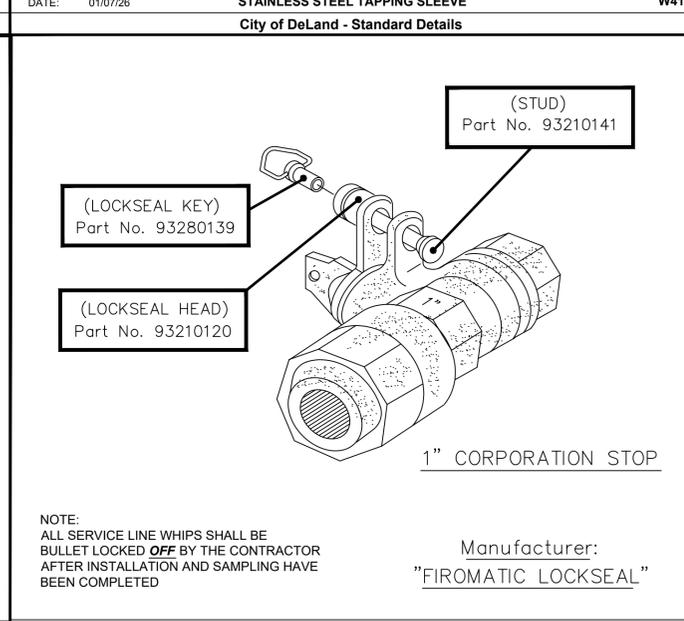
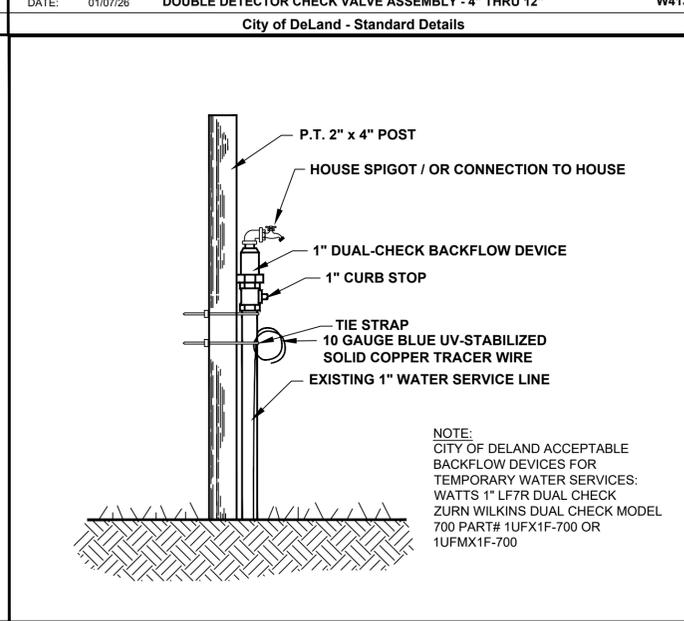
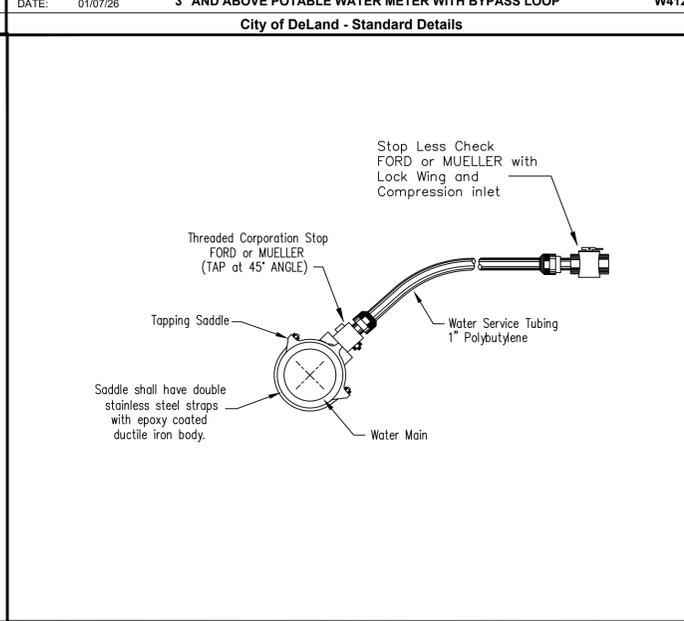
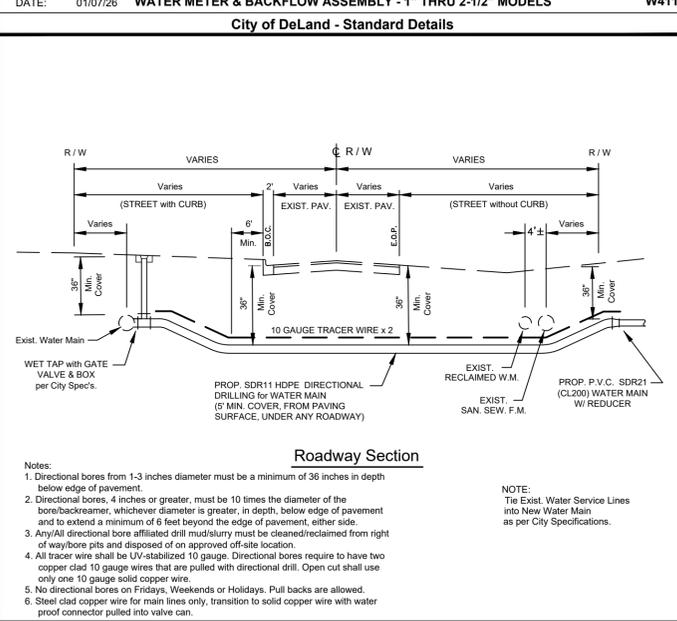
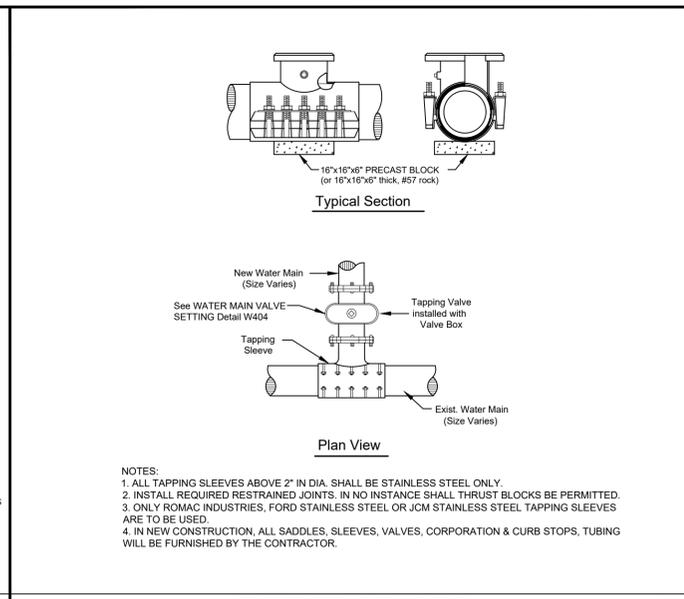
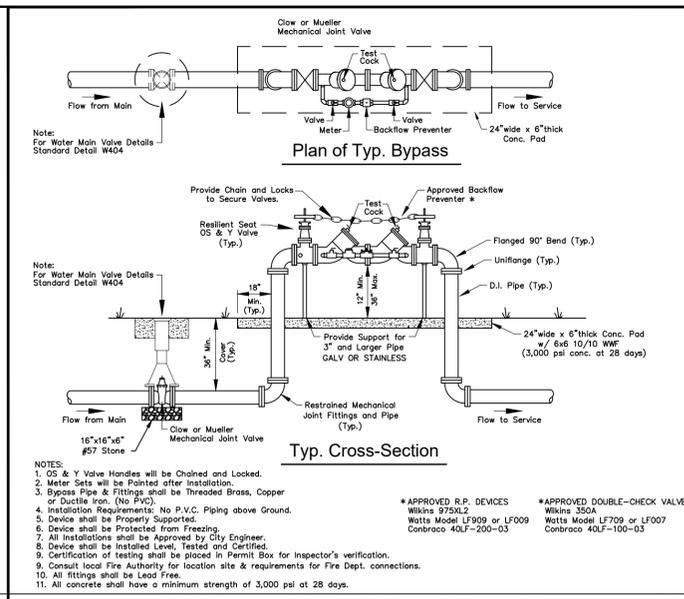
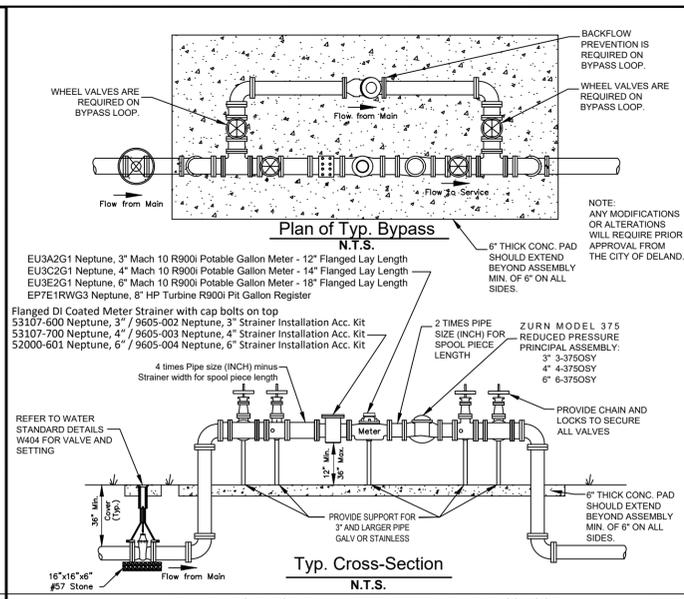
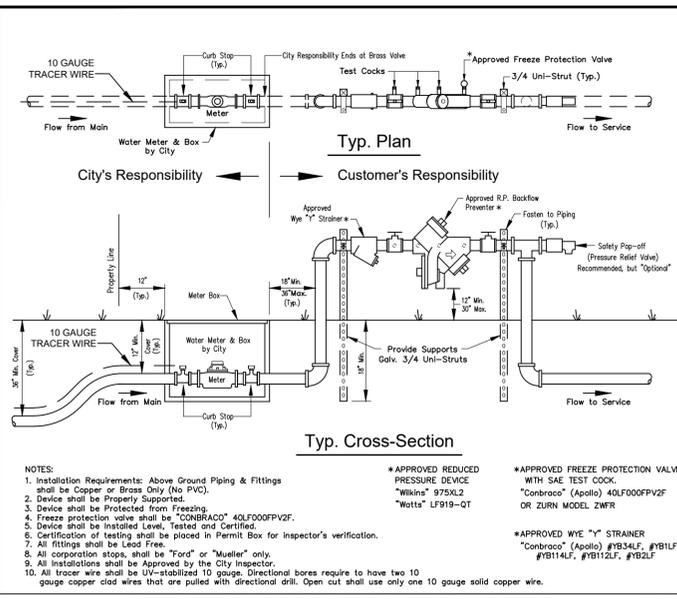


CITY OF DELAND, FLORIDA  
 1102 S. GARFIELD AVENUE, DELAND, FLORIDA 32724

DATE: 01/07/26  
 CHECKED BY: NAME  
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 ERIC SAMPSON  
 TITLE: WATER SYSTEM DETAILS (Sheet 1)  
 FILE: drive letter/details locations

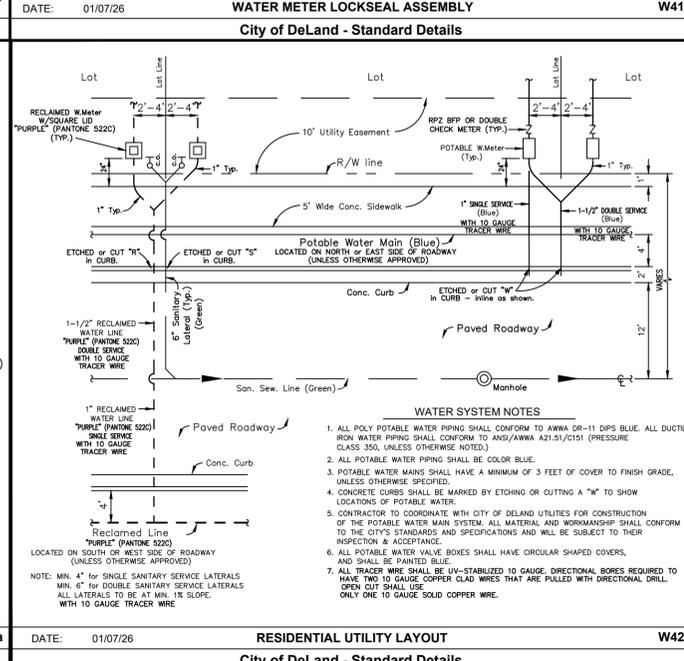
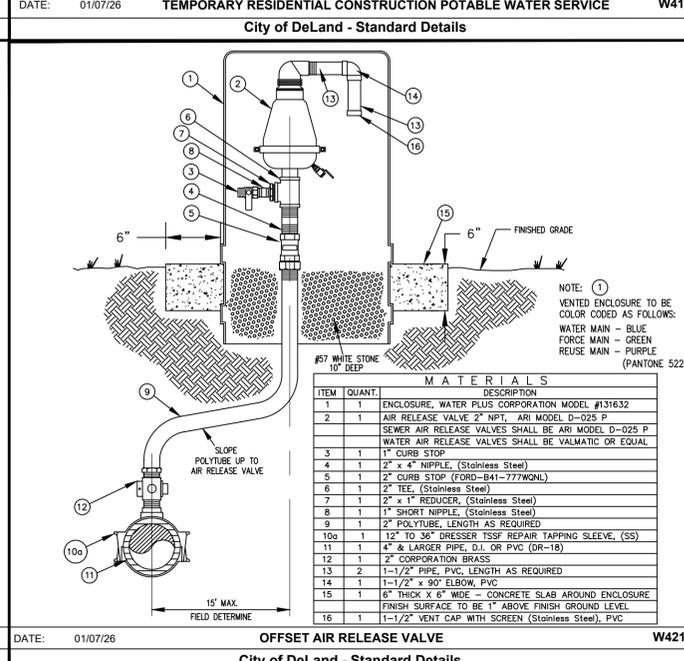


LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

Other pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossing (Full Joint Centered)
Storm Sewer	3 ft. minimum	12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 3' ft. minimum
Vacuum Sanitary Sewer	10 ft. preferred 3 ft. minimum	12 inches preferred 6 inches minimum	Alternate 3' ft. minimum
Gravity Sewer	10 ft. preferred 6 ft. minimum (3)	12 inches is the minimum except for gravity sewer, then 8 inches is the minimum and 12 inches is preferred	Alternate 6' ft. minimum
On-Site Sewage Treatment & Disposal System(4)	10 ft. minimum	---	---

(1) Water Main Should Cross Above other pipe. When Water Main Must Be Below Other Pipe, the Minimum Separation is 12" inches.  
 (2) Reclaimed Water Regulated Under Part III of chapter 62-610, F.A.C.  
 (3) 3 ft. for Gravity Sanitary sewer where the Bottom of the Water Main is laid at least 6 inches above the top of gravity sanitary sewer.  
 (4) Reclaimed water not regulated under Part III of Chapter 62-160, F.A.C.

DATE: 01/07/26 WATER PIPE SEPERATION REQUIREMENTS W420



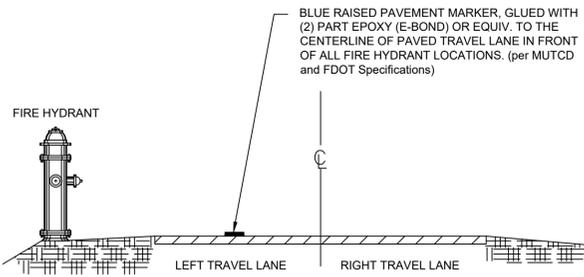
CITY OF DELAND, FLORIDA  
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TITLE: WATER SYSTEM DETAILS (Sheet 2)

FILE: drive letter/details locations



DATE: 01/07/26 REFLECTIVE PAVEMENT MARKER FOR FIRE HYDRANT LOCATION W423 City of DeLand - Standard Details

Approved Ford Valve for Service Lines

1" SERVICE

Pack Joint for Copper or Plastic Tubing (CTS) Inlet by Meter Swivel Nut



CATALOG NUMBER	VALVE SIZE	SERV. LINE SIZE	METER SIZE	APPROX. WT. LBS.
B43-211W-NL	5/8"	1/2"	5/8"	1.4
B43-212W-NL	5/8"	1/2"	5/8"x3/4" & 3/4"	1.5
B43-231W-NL	5/8"	3/4"	5/8"	1.6
B43-232W-NL	5/8"	3/4"	5/8"x3/4" & 3/4"	1.7
B43-331W-NL	3/4"	3/4"	5/8"	2.1
B43-332W-NL	3/4"	3/4"	5/8"x3/4" & 3/4"	2.4
B43-334W-NL	3/4"	3/4"	1"	2.3
B43-341W-NL	3/4"	1"	5/8"	2.7
B43-342W-NL	3/4"	1"	5/8"x3/4" & 3/4"	2.4
B43-344W-NL	3/4"	1"	1"	2.7
B43-444W-NL	1"	1"	1"	3.2
B43-454W-NL	1"	1-1/4"	1"	3.4

2" SERVICE

Pack Joint for Copper or Plastic Tubing (CTS) by Female Iron Pipe Thread



CATALOG NUMBER	VALVE SIZE	CTS END	FIP END	APPROX. WT. LBS.
B41-333-NL	3/4"	3/4"	3/4"	2.0
B41-334-NL	3/4"	3/4"	1"	2.1
B41-343-NL	3/4"	1"	3/4"	2.2
B41-344-NL	3/4"	1"	1"	2.4
BL41-344-4-875-NL	3/4"	1"	1"	3.1
B41-444-NL	1"	1"	1"	2.8
B41-454-NL	1"	1-1/4"	1"	3.2
B41-455-NL	1"	1-1/4"	1-1/4"	3.7
B41-555-NL	1-1/4"	1-1/4"	1-1/4"	5.6
B41-666-NL	1-1/2"	1-1/2"	1-1/2"	7.0
B41-777-NL	1-1/2"	2"	2"	9.6
B41-777-NL	2"	2"	2"	11.1

DATE: 01/07/26 VALVE FOR WATER AND RECLAIM SERVICE LINE W424 City of DeLand - Standard Details

Approved Muller Valve for Service Lines

1" SERVICE



Mueller 300 Ball Straight Meter Valve  
Mueller Pack Joint Connection for CTS O.D.\* tubing x meter swivel nut\*\*.  
Quarter turn check - lock wing. 360° turn option available by adding -3 suffix to catalog number.  
Example: P-24350-3

Catalog size	3/4"x5/8" R f	3/4" R f	3/4"	5/8"x3/4"x1"	1" R f	1"
Meter size	5/8"	5/8"x3/4", 3/4"	5/8"x3/4", 3/4"	5/8"x3/4", 3/4"	1"	1"
Tubing size	3/4"	3/4"	3/4"	1"	1"	1"

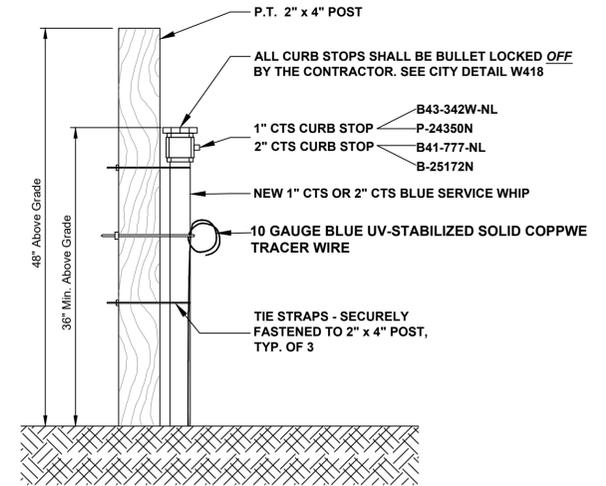
2" SERVICE



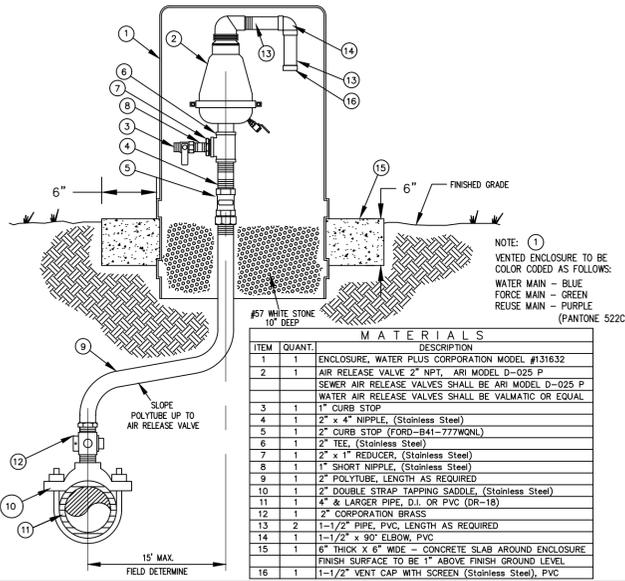
Mueller 300 Ball Curb Valve  
Inlet: Mueller Pack Joint  
Connection for CTS O.D.\* tubing  
Outlet: F.I.P. thread  
Quarter turn check - this valve may be ordered with 360° turn option by adding -3 to end of catalog number (P-25172-3)

Catalog size	3/4" R	3/4"	1" R	1"	1-1/2"	2"
Meter size	3/4"	3/4"	1"	1"	1-1/2"	2"
Tubing size	3/4"	3/4"	1"	1"	1-1/2"	2"

DATE: 01/07/26 VALVE FOR WATER AND RECLAIM SERVICE LINE W425 City of DeLand - Standard Details



DATE: 01/07/26 NEW POTABLE SERVICE WHIP W426 City of DeLand - Standard Details



ITEM	QUANT.	DESCRIPTION
1	1	ENCLOSURE, WATER PLUS CORPORATION MODEL #131632
2	1	AIR RELEASE VALVE 2" NPT, ARI MODEL D-025 P
3	1	SEWER AIR RELEASE VALVES SHALL BE ARI MODEL D-025 P
4	1	WATER AIR RELEASE VALVES SHALL BE VALMATIC OR EQUAL
5	1	1" CURB STOP
6	1	2" x 4" NIPPLE, (Stainless Steel)
7	1	2" CURB STOP (FORD-B41-777WQNL)
8	1	2" TEE, (Stainless Steel)
9	1	2" x 1" REDUCER, (Stainless Steel)
10	1	1" SHORT NIPPLE, (Stainless Steel)
11	1	2" POLYUBE, LENGTH AS REQUIRED
12	1	2" DOUBLE STRAP TAPPING SADDLE, (Stainless Steel)
13	1	4" & LARGER PIPE, D.I. OR PVC (DR-19)
14	1	2" CORPORATION BRASS
15	2	1-1/2" PIPE, PVC, LENGTH AS REQUIRED
16	1	1-1/2" x 90° ELBOW, PVC
17	1	6" THICK X 8" WIDE - CONCRETE SLAB AROUND ENCLOSURE
18	1	FINISH SURFACE TO BE 1" ABOVE FINISH GROUND LEVEL
19	1	1-1/2" VENT CAP WITH SCREEN (Stainless Steel), PVC

DATE: 01/07/26 OFFSET AIR RELEASE VALVE W421 City of DeLand - Standard Details



CITY OF DELAND, FLORIDA  
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TITLE:  
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SCALE: NOT TO SCALE  
DRAWN BY: ERIC SAMPSON

FILE: drive letter/details locations