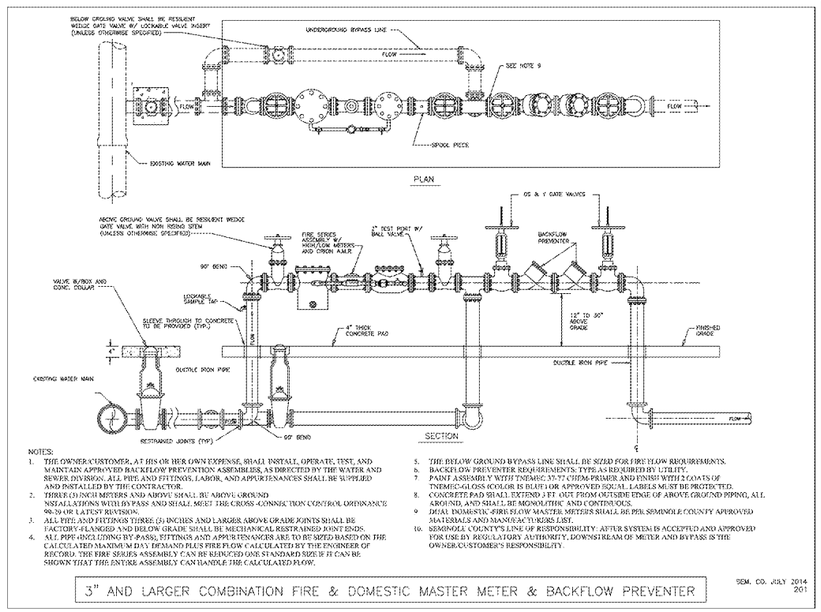
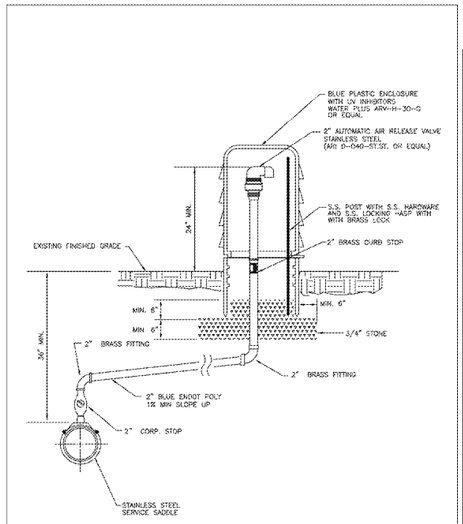


3" AND LARGER COMBINATION FIRE & DOMESTIC MASTER METER & BACKFLOW PREVENTER

SEM. CO. JULY 2014
201



ABOVE GROUND POTABLE WATER AIR RELEASE VALVE

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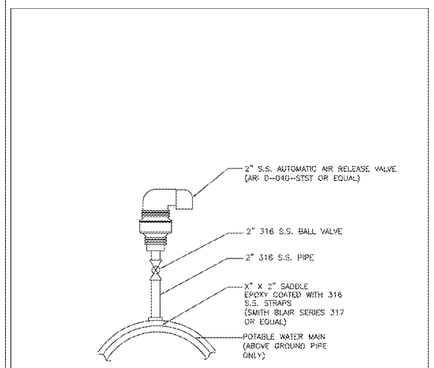
203



AERIAL POTABLE CROSSING AIR RELEASE VALVE

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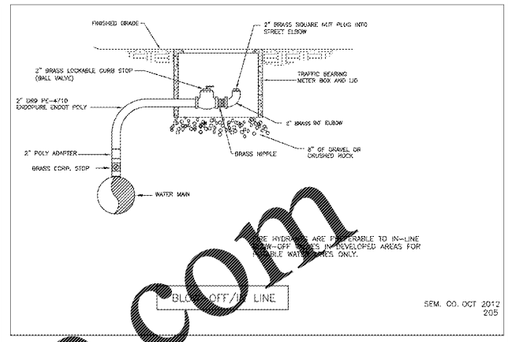

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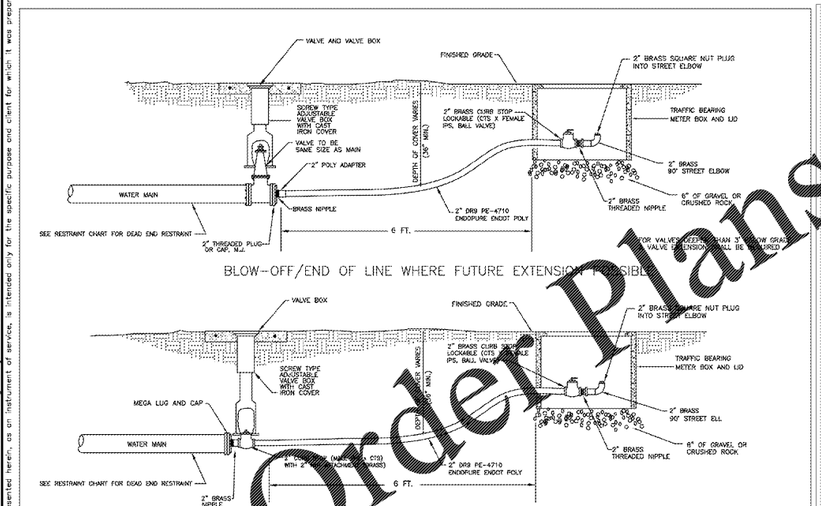
205



BLOW-OFF'S/END OF LINE

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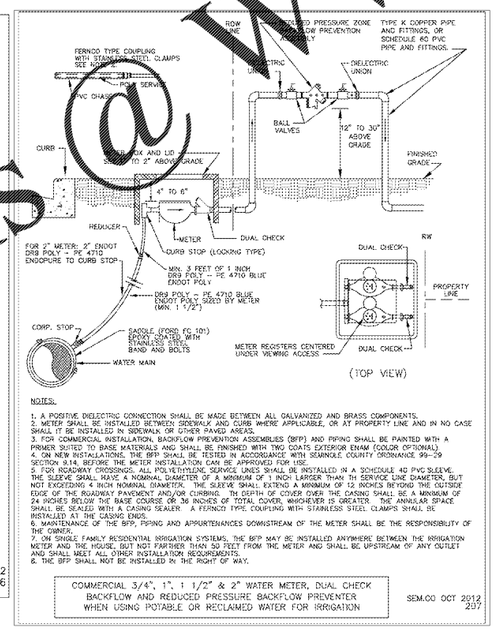
206



NOTES:
1. A POSITIVE DIELECTRIC CONNECTION SHALL BE MADE BETWEEN ALL GALVANIZED AND BRASS COMPONENTS.
2. METER SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB WHERE APPLICABLE, OR AT PROPERTY LINE AND IN NO CASE SHALL IT BE INSTALLED IN SIDEWALK OR OTHER PAVED AREAS.
3. FOR COMMERCIAL INSTALLATION, BACKFLOW PREVENTION ASSEMBLIES (BFP) AND PIPING SHALL BE PAINTED WITH A PRIMER SUITED TO BASE MATERIALS AND SHALL BE FINISHED WITH TWO COATS EXTERIOR ENAM (COLOR OPTIONAL).
4. ON NEW INSTALLATIONS, THE BFP SHALL BE TESTED IN ACCORDANCE WITH SEMINOLE COUNTY ORDINANCE 99-29 SECTION 9.14, BEFORE THE METER INSTALLATION CAN BE APPROVED FOR USE.
5. FOR ROADWAY CROSSINGS, ALL POLYETHYLENE SERVICE LINES SHALL BE INSTALLED IN A SCHEDULE 40 PVC SLEEVE. THE SLEEVE SHALL HAVE A NOMINAL DIAMETER OF A MINIMUM OF 1 INCH LARGER THAN TH SERVICE LINE DIAMETER, BUT NOT EXCEEDING 4 INCH NOMINAL DIAMETER. THE SLEEVE SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND THE OUTSIDE EDGE OF THE ROADWAY PAVEMENT AND/OR CURBING. TH DEPTH OF COVER OVER THE CASING SHALL BE A MINIMUM OF 24 INCHES BELOW THE BASE COURSE OR 36 INCHES OF TOTAL COVER, WHICHEVER IS GREATER. THE ANNULAR SPACE SHALL BE SEALED WITH A CASING SEALER. A FERNCO TYPE COUPLING WITH STAINLESS STEEL CLAMPS SHALL BE INSTALLED AT THE CASING ENDS.
6. MAINTENANCE OF THE BFP, PIPING AND APPURTENANCES DOWNSTREAM OF THE METER SHALL BE THE RESPONSIBILITY OF THE OWNER.
7. ON SINGLE FAMILY RESIDENTIAL IRRIGATION SYSTEMS, THE BFP MAY BE INSTALLED ANYWHERE BETWEEN THE IRRIGATION METER AND THE HOUSE, BUT NOT FARTHER THAN 50 FEET FROM THE METER AND SHALL BE UPSTREAM OF ANY OUTLET AND SHALL MEET ALL OTHER INSTALLATION REQUIREMENTS.
8. THE BFP SHALL NOT BE INSTALLED IN THE RIGHT OF WAY.

COMMERCIAL 3/4", 1", 1 1/2" & 2" WATER METER, DUAL CHECK BACKFLOW AND REDUCED PRESSURE BACKFLOW PREVENTER WHEN USING POTABLE OR RECLAIMED WATER FOR IRRIGATION

SEM.CO OCT 2012
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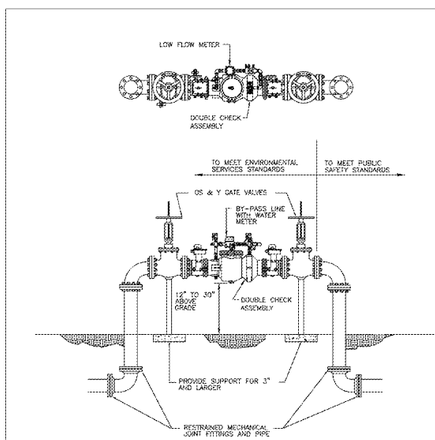

NOTES:
1. ALL PIPE AND FITTINGS ABOVE GRADE SHALL HAVE FLANGED ENDS.
2. BY-PASS METER ASSEMBLY SHALL BE REQUIRED ON MONITORED FIRE SPRINKLER PROTECTION SYSTEMS.
3. THE CHECK VALVE ASSEMBLY, VALVES AND PIPING AND THE BYPASS METER AND DOUBLE CHECK SHALL BE PAINTED WITH A PRIMER SUITED TO THE BASE MATERIALS AND FINISHED WITH TWO COATS OF EXTERIOR ENAMEL (COLOR IS RED).
4. BYPASS METER AND BACKFLOW PREVENTER SHALL BE ASSEMBLED WITH APPROPRIATE FITTINGS TO ALLOW REMOVAL AND RE-INSTALLATION.

DOUBLE DETECTOR CHECK ASSEMBLY

SEM. CO JULY 2013
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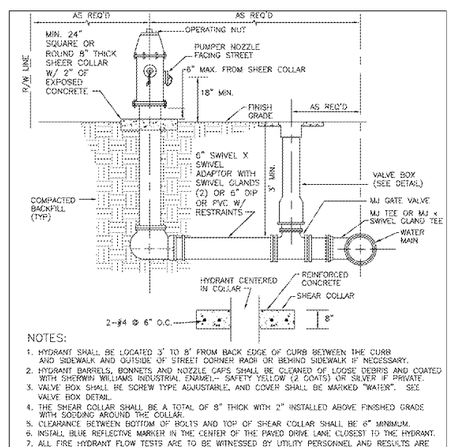

NOTES:
1. HYDRANT SHALL BE LOCATED 3' TO 8' FROM BACK EDGE OF CURB BETWEEN THE CURB AND SIDEWALK AND OUTSIDE OF STREET CORNER RADII OR BEHIND SIDEWALK IF NECESSARY.
2. HYDRANT BARRELS, BONNETS AND NOZZLE CAPS SHALL BE CLEANED OF LOOSE DEBRIS AND COATED WITH SHERWIN WILLIAMS INDUSTRIAL ENAMEL:- SAFETY YELLOW (2 COATS) OR SILVER IF PRIVATE.
3. VALVE BOX SHALL BE SCREW TYPE ADJUSTABLE, AND COVER SHALL BE MARKED "WATER". SEE VALVE BOX DETAIL.
4. THE SHEAR COLLAR SHALL BE A TOTAL OF 8" THICK WITH 2" INSTALLED ABOVE FINISHED GRADE WITH SODDING AROUND THE COLLAR.
5. CLEARANCE BETWEEN BOTTOM OF BOLTS AND TOP OF SHEAR COLLAR SHALL BE 6" MINIMUM.
6. INSTALL BLUE REFLECTIVE MARKER IN THE CENTER OF THE PAVED DRIVE LANE CLOSEST TO THE HYDRANT.
7. ALL FIRE HYDRANT FLOW TESTS ARE TO BE WITNESSED BY UTILITY PERSONNEL AND RESULTS ARE TO BE PROVIDED TO SEMINOLE COUNTY ENVIRONMENTAL SERVICES UTILITIES ENGINEERING DIVISION.
8. ALTHOUGH NOT REQUIRED, IT IS RECOMMENDED THAT EACH FIRE HYDRANT SHALL BE INSTALLED WITH A HYDRANT SECURITY DEVICE. THE DEVICE MUST BE FROM AN APPROVED MANUFACTURER OR APPROVED EQUAL. THE DEVICE, WHEN INSTALLED, MUST BE INTERNAL OR DIRECTLY ADJACENT TO THE HYDRANT AND MUST NOT HINDER OR ALTER CURRENT ESTABLISHED MAINTENANCE PROCEDURES. NO EXTERNAL LOCKS OR SPECIAL WRENCHES THAT WOULD HINDER FIREFIGHTERS ACCESS TO WATER ARE ALLOWED. THE DEVICE MUST PREVENT A CONTAMINANT FROM ENTERING THE DISTRIBUTION SYSTEM THROUGH THE HYDRANT IN EITHER A BACKFLOW OR BACK-SIPHONING CONDITION.
9. HYDRANTS SHALL BE DRY BARREL AND HAVE A MINIMUM 5 ¼" MAIN VALVE OPENING AND A MINIMUM INSIDE LOWER/UPPER BARREL DIAMETER (I.D.) OF 6 ⅜" TO ASSURE MAXIMUM FLOW PERFORMANCE. PRESSURE LOSS AT 1,000 GPM SHALL NOT EXCEED 2.50 PSI FOR 4 ½" PUMPER NOZZLE.
10. HYDRANTS SHALL BE THREE WAY IN DESIGN, HAVING ONE (1) PUMPER NOZZLE OF 4 ½" DIAMETER AND TWO (2) 2 ½" HOSE NOZZLES. NOZZLE THREAD TYPE SHALL BE NATIONAL STANDARD NOZZLES AND SHALL THREAD COUNTERCLOCKWISE INTO HYDRANT BARREL UTILIZING "O" RING SEALS.

PRIVATE FIRE HYDRANT ASSEMBLY

SEM. CO OCT 2012
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LICENSED PROFESSIONAL
CHRISTOPHER J. HOLLEN, P.E.
FLORIDA LICENSE NUMBER
74685
DATE:

K+A PROJECT 147654001
DATE 10/22/19
SCALE AS SHOWN
DESIGNED BY DFD
DRAWN BY DFD
CHECKED BY CJH

SEMINOLE COUNTY DETAILS

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Public Storage

SHEET NUMBER
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