

**GENERAL NOTES**

14. SUBMITTALS ARE REQUIRED TO BE SUBMITTED FOR APPROVAL BY THE ENGINEER FOR ALL PIPE, FITTINGS, VALVES, VALVE BOXES, HYDRANT, INSULATION, PAINTING AND PRESSURE GAUGES. ITEM 900.645 SPECIAL PROVISION (PRESSURE REDUCING VAULT) HAS ADDITIONAL SUBMITTAL REQUIREMENTS.
15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES DURING CONSTRUCTION AMPLE MEANS AND DEVICES TO PROMPTLY REMOVE AND DISPOSE OF ALL WATER FROM ANY SOURCE ENTERING EXCAVATIONS OR OTHER PARTS OF THE WORK. THE CONTRACTOR SHALL MAINTAIN CONTINUAL AND COMPLETE EFFECTIVENESS OF THE DEWATERING SYSTEM OPERATION TO PROVIDE A FIRM, STABLE, EXCAVATED SUBGRADE AT ALL TIMES AS REQUIRED FOR PROPER PERFORMANCE OF THE WORK.
16. CORPORATION STOPS SHALL BE MUELLER H-25000, A.Y. MCDONALD 4701B FLARED OUTLET OR APPROVED EQUAL AND MEET THE VT LEAD FREE REQUIREMENTS.
17. COPPER TUBING SHALL BE TYPE "K" SOFT TEMPER, CONFORMING TO ASTM B88. THE NAME OR TRADEMARK OF THE MANUFACTURER AND TYPE SHALL BE STAMPED AT INTERVALS ALONG THE PIPE.
18. CURB STOPS SHALL BE MUELLER H-15184 WITH H-15530 ELBOW, A.Y. MCDONALD 6000 WITH 4779M ELBOW OR APPROVED EQUAL, AND MEET THE VT LEAD FREE REQUIREMENTS.
19. SERVICE BOXES (OR VALVE BOX) SHALL BE ADJUSTABLE LENGTHS CONSISTENT WITH PIPE DEPTHS. SERVICE BOXES SHALL BE STANDARD SLIDE TYPE AS SHOWN ON THE PLANS. STATIONARY RODS SHALL BE SUPPLIED WITH SERVICE BOXES.
20. SERVICE SADDLES SHALL BE DOUBLE BAND, STAINLESS STEEL WITH A SHOP COAT FINISH AND SHALL BE FORD F202.
21. DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A21.51/AWWA C151 AND CEMENT LINED (6MM) AND SEAL COATED INSIDE AND OUT IN ACCORDANCE WITH ANSI A21.4/AWWA C104. JOINTS SHALL BE PUSH-ON UNLESS SHOWN OTHERWISE ON THE PLANS IN ACCORDANCE WITH ANSI A21.51/AWWA C151. DUCTILE IRON FITTINGS SHALL BE IN ACCORDANCE WITH ANSI A21.51/AWWA C151 OR IF COMPACT AWWA C153, A 21.53. GASKETS SHALL BE IN ACCORDANCE WITH ANSI A21.11/AWWA C111. PIPE LENGTHS SHALL NOT EXCEED 6.1 M.
22. TAPPING SLEEVES SHALL BE AMERICAN-DARLING MECHANICAL JOINT, MUELLER H616 SERIES MECHANICAL JOINT OR APPROVED EQUAL.
23. TAPPING VALVES SHALL BE MECHANICAL JOINT AMERICAN DARLING MODEL NO. 865, MUELLER T2360 OR APPROVED EQUAL.
24. INSERTION VALVES SHALL BE A MECHANICAL JOINT SLEEVE WITH FLANGE FITTING FOR TAPPING VALVES, BE CAPABLE OF 250 PSI WORKING PRESSURE, MEET ANSI/AWWA C515, BE NUT OPERATED (OPEN LEFT), HAVE TRIPLE "O" RING SEAL, AND BE MUELLER, SMITH (AS MANUFACTURED BY US PIPE COMPANY) OR APPROVED EQUAL.
25. VALVE OR SERVICE BOXES SHALL BE CAST IRON, HEAVY PATTERN, SLIDING ADJUSTABLE TYPE WITH CAST IRON COVER. THE UPPER SECTION SHALL HAVE A FLANGE TO PREVENT SETTLING. VALVE BOXES SHALL HAVE BARRELS NOT LESS THAN 125 MM INSIDE DIAMETER AND LENGTHS ADAPTED TO VALVE DEPTH. THE BARRELS SHALL LAP AT LEAST 150 MM WHEN IN THE MOST EXTENDED POSITION. VALVE BOXES SHALL HAVE "WATER" CAST INTO THE COVER.
26. BURIED COUPLINGS SHALL BE COMPLETELY COATED WITH TWO COATS OF BITUMINOUS PAINT.
27. ALL BURIED VALVES SHALL BE PROVIDED WITH VALVE BOXES CENTERED ON THE VALVE OPERATING NUT.
28. RIGID POLYSTYRENE INSULATION (BLUE BOARD) SHALL BE 50 MM X 600 MM X 2.44 M, AS MANUFACTURED BY DOW CHEMICAL OR US GYPSUM.
29. ALL 80 MM TO 300 MM GATE VALVES SHALL BE RESILIENT WEDGE TYPE CONFORMING TO AWWA C509, BE MECHANICAL JOINT WITH RETAINER GLAND, NON-RISING STEM, NUT OPERATED (OPEN LEFT), CAPABLE OF A WORKING PRESSURE OF 250 PSI. RESILIENT WEDGE GATE VALVES SHALL BE WATEROUS SERIES 500, CLOW F6100 OR APPROVED EQUAL AND MEET VT LEAD FREE REQUIREMENTS.
30. HYDRANTS SHALL MEET OR EXCEED AWWA C502 AND BE EDDY MODEL F-2640 OR APPROVED EQUAL.
31. HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS EACH WITH A DRAINAGE PIT 1 METER IN DIAMETER AND .6 METERS BELOW AND TO THE REAR OF THE HYDRANT. PAYMENT INCIDENTAL TO THE HYDRANT.
32. HYDRANTS REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER.
33. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER SERVICE CONNECTIONS INCLUDING FURNISHING CORPORATION STOPS, CURB STOPS, CURB BOXES, FITTINGS, AND COPPER TUBING WHERE NECESSARY TO ALLOW FOR HOOK-UP TO THE WATER MAIN. THE CONTRACTOR SHALL PROVIDE 24-HOUR ADVANCE NOTICE IN WRITING TO ALL WATER CUSTOMERS REGARDING ANY DISRUPTION IN SERVICE. PROVIDE A COPY OF WRITTEN NOTICE TO THE OWNER AND THE ENGINEER.
34. ADAPTER COUPLINGS MAY BE REQUIRED FOR FITTING NEW SERVICES TO EXISTING SERVICE LINES. SUCH FITTINGS SHALL BE COMPRESSION CONNECTIONS AND PROVIDE ELECTRICAL CONTINUITY. FITTINGS SHALL BE A.Y. MCDONALD, FORD OR MUELLER.
35. INSTALL CURB STOP AND CURB BOX (NEW SERVICE INSTALLATION) AT THE APPROXIMATE PROPERTY LINE OR AS OTHERWISE DIRECTED BY THE ENGINEER.
36. ALL PAINT SHALL BE OF THE PROPER TYPE AND THICKNESS AS MANUFACTURED BY TNEPEC COMPANY OR APPROVED EQUAL. PAINT SHALL BE APPLIED AND SURFACES PREPARED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. AREAS TO BE PAINTED SHALL BE HYDRANTS AND ALL INTERIOR VALVE VAULT PIPING.

**REPLACEMENT SHEETS  
ISSUED 10/5/11**

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PROJECT NUMBER: F EGC 028-3(32)

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FIRE DISTRICT WATER PLAN FD-02 SHEET 291 OF 306

