



NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION: DOUGLAS COUNTY
			<h1>3" TO 8" METER SET</h1>	DATE: JULY 2017
				DWG: B06

PARTS KEY:

1. WATER METER [MAIN METER SIZED FOR PEAK AND MINIMUM DEMAND, BYPASS METER (IF REQUIRED BY UTILITY) SIZED FOR MINIMUM DEMAND], RADIO READ HARDWARE AS APPROVED BY WATER UTILITY, AND STRAINER (IF REQUIRED BY UTILITY). CONTRACTOR TO VERIFY WITH WATER UTILITY AS TO WHO SUPPLIES METER.
2. MUELLER GATE VALVE, NRS, AWWA C509. C/W OPERATING NUT OR APPROVED EQUAL.
3. GRINNELL OR BLA PIPE SUPPORTS.
4. MUELLER SWING CHECK VALVE OR APPROVED EQUAL.
5. ROMAC DJ400 DISMANTLING JOINT OR APPROVED EQUAL.
6. DUCTILE IRON PIPE, AWWA C115/C151. 250 PSI MINIMUM PRESSURE RATING.
7. TEE, AWWA C110/C153. 250 PSI MINIMUM PRESSURE RATING.
8. 90° BEND, AWWA C110/C153. 250 PSI MINIMUM PRESSURE RATING.
9. "HAMMERHEAD" THRUST BLOCK WITH JOINT RESTRAINT SIZED FOR APPLICATION ON UNDISTURBED SOIL. EXPOSED REINFORCEMENT TO BE STAINLESS STEEL OR IRON. MINIMUM 3-INCH CLEARANCE ON ALL CONCRETE REINFORCEMENT.
10. PRECAST CONCRETE VAULT, H2O LOAD RATED, WATERPROOF VAULT EXTERIOR WITH 2 COATS OF THOROSEAL/ACRYL 60 OR APPROVED EQUAL. VAULT TO BE SIZED SUCH THAT A MINIMUM OF 1'-6" HORIZONTAL CLEARANCE IS PROVIDED BETWEEN VAULT WALLS AND PIPING/APPURTENANCES AND BETWEEN PIPE/APPURTENANCES. A MINIMUM OF 1'-0" VERTICAL CLEARANCE IS TO BE PROVIDED BETWEEN PIPING/APPURTENANCES AND THE VAULT FLOOR. MINIMUM INTERIOR DIMENSIONS 6'-6"X4'-0"X5'-6", VAULT TO BE CAST WITH A SUMP. DRY INSTALLATIONS OUTSIDE OF ANY IMPACT FROM GROUNDWATER ARE TO HAVE A DRAIN HOLE CORED IN THE SUMP.
11. LINK-SEAL OR APPROVED EQUAL IN WET/GROUNDWATER INSTALLATIONS. KOR-N-SEAL BOOT IN DRY INSTALLATIONS
12. AWWA C900 PVC PIPE FOR 4-INCH THROUGH 8-INCH, AWWA C901 IPS HDPE PIPE FOR 3 INCH.
13. 48-INCH x 78-INCH ALUMINUM ACCESS COVER WITH STAINLESS STEEL HARDWARE, DRAIN CHANNEL, CONTINUOUS BUMPER SEAL, AND COMPRESSION SPRINGS (BILCO JDAL-H2O TRAFFIC RATED) OR APPROVED EQUAL FOR INCIDENTAL TRAFFIC AREAS. ACCESS COVERS CONSTRUCTED OUT OF STEEL OR THAT UTILIZE TORSION SPRINGS WILL NOT BE ALLOWED. 48-INCH X 78-INCH DIAMOND PLATE TOP SLAB WITH 36-INCH RING AND COVER FOR FULL H2O TRAFFIC LOAD.
14. 12 GAUGE COPPER-CLAD STEEL WIRE WITH HDPE COATING LOCATION WIRE, EXTEND 48 INCHES INTO METER BOX.
15. STEEL LADDER WITH LADDER-UP SAFETY POST, BILCO LU-1 OR APPROVED EQUAL.
16. TRAFFIC RATED VALVE BOX.
17. 3/4-INCH WASHED DRAIN ROCK.

NOTES:

1. BYPASS LINES REQUIRED BASED ON INSTALLATION. CONSULT WITH UTILITY TO DETERMINE IF A BYPASS LINE IS REQUIRED.
2. METER VAULT IS TO BE CONSTRUCTED SUCH THAT NO EXTERIOR WATER (INFILTRATION OR INFLOW) IS ALLOWED TO ENTER THE VAULT.
3. METER MANUFACTURER'S RECOMMENDED UPSTREAM AND DOWNSTREAM CLEAR OPEN PIPE REQUIREMENTS ARE TO INCORPORATED INTO THE VAULT DESIGN.
4. ALL PIPE, VALVES, METERS, AND ANY OTHER ITEM THAT WILL BE IN DIRECT CONTACT WITH POTABLE WATER MUST BE NSF 61 APPROVED.

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