

BILL OF MATERIALS

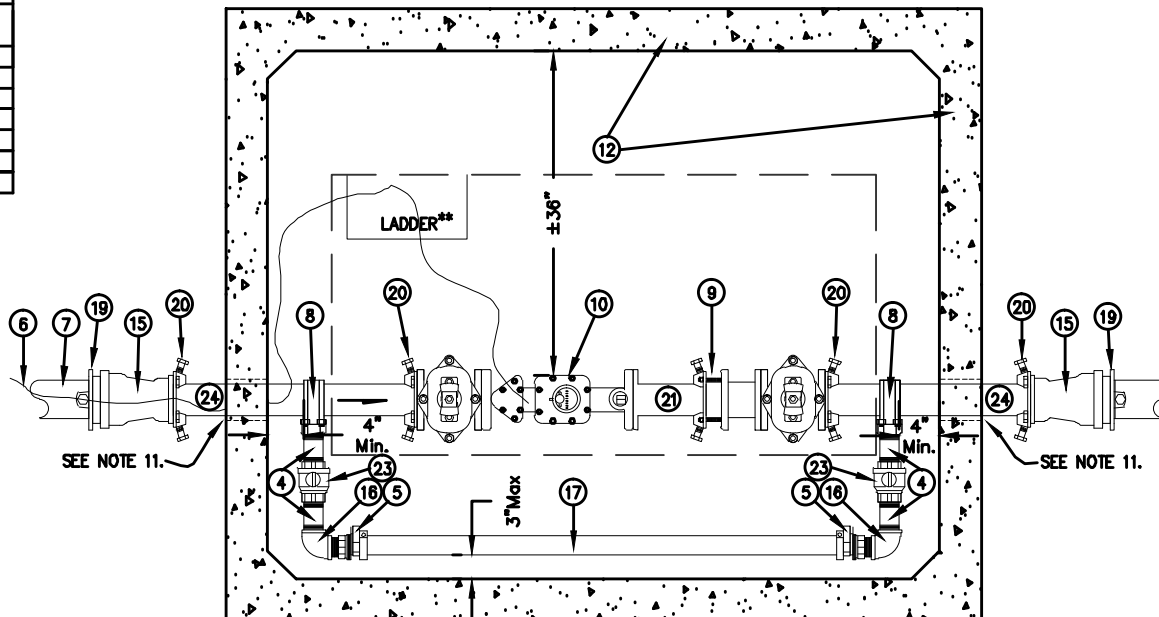
NO.	NOMENCLATURE	REQ'D.	NO.	NOMENCLATURE	REQ'D.
1	WATER MAIN		21	SPOOL, 3" CL 51 D.I., FLxPE, (FIELD CUT TO LENGTH)	1
2	TEE, MAINLINEx4"FL OR STAINLESS STEEL TAPPING SLEEVE EQUIVALENT	1	22	PLUG, 2" BRASS (SEE NOTE 8)	1
3	VALVE, 4" DUCTILE IRON, RESILIENT WEDGE, FLxMJ	1	23	VALVE, 2" BALL, BRASS, I.P.T. x I.P.T. , W/PADLOCK WINGS (FORD B11-777-W) <sup>o</sup>	2
4	NIPPLE, BRASS 2x4	4	24	PIPE, 3" CL 50 DUCTILE IRON (FIELD CUT TO LENGTH)	
5	ADAPTER, BRASS PAK JOINT, 2" M.I.P.T. x PVC (FORD C87-77) <sup>o</sup>	2			
6	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND TO TOP OF LADDER				
7	PIPE, 4" CL 50 DUCTILE IRON (FIELD CUT TO LENGTH)				
8	CLAMP, SERVICE, 3"D.I. x 2" I.P.T., DOUBLE STAINLESS STEEL STRAP, EPOXY COATED (FORD FC202-425-IP7) <sup>o</sup>	2			
9	RESTRAINED FLANGE COUPLING ADAPTER, 3", ROMAC IND. INC. <sup>o</sup>	1			
10	METER, BADGER, 3" TURBO SERIES 450	1			
11	CASING, 6" PVC SEWER PIPE	1			
12	UTILITY VAULT 675LA W/#675-TL-2-332P COVER (SPRING ASST) <sup>o</sup> AND LADDER (BILCO LADDER-UP SAFETY POST) <sup>o**</sup>	1			
13	VALVE BOX, CAST IRON OLYMPIC FOUNDRY V8-007-SKAGIT (SEE P.U.D. DETAIL)	1			
14	VALVE, 3" DUCTILE IRON, RESILIENT WEDGE, FLxMJ	2			
15	REDUCER, 4" Mx3" M.J., CONCENTRIC	2			
16	ELL, 2" BRASS, 90'	2			
17	PIPE, 2" PVC, SCHEDULE 80 (FIELD CUT TO LENGTH)				
18	PIPE SUPPORT (MATERIAL RESOURCES #S92 OR #S89) <sup>o</sup>	2			
19	RETAINER GLAND, 4" EBAA MEG-A-LUG <sup>o</sup>	3			
20	RETAINER GLAND, 3" EBAA MEG-A-LUG <sup>o</sup>	4			

ALL BRASS FITTINGS TO BE LEAD FREE DOMESTIC BRASS PER UNITED STATES BILL S.3874


<sup>o</sup>OR EQUIVALENT APPROVED BY THE DISTRICT  
<sup>\*\*</sup>LOCATION OF LADDER TO BE DETERMINED AT INSTALLATION BY P.U.D. REPRESENTATIVE.

NOTES:

1. SET VALVE BOX AND VAULT TO FINISH GRADE. SEE P.U.D. VALVE BOX DETAIL.
2. SEAL VAULT LIDS AND RISERS OF VAULT WITH 1-1/2"x1" JOINT MASTIC. INSTALL 3" PVC PIPE TO DRAIN TO DAYLIGHT IF POSSIBLE.
3. INSTALL SERVICE PIPE PERPENDICULAR TO MAIN OR AS SHOWN ON WATER PLANS APPROVED BY DISTRICT ENGINEER. USE ELLS, AS NECESSARY, TO MEET ELEVATION OF VAULT.
4. TEE, VALVE AND PIPE MUST BE WRAPPED WITH 8 MIL POLYETHYLENE PIPE ENCASMENT. IT IS TO BE INSTALLED AS PER D.I.P.R.A. AND IN ACCORDANCE WITH A.W.W.A. C105.
5. BLOCK TEE/TAPPING SLEEVE WITH POURED CONCRETE ON ALL WATER MAINS OTHER THAN DUCTILE IRON. IN ADDITION, THE SERVICE PIPE FROM VALVE AT MAIN TO METER AND THE PRIVATE SERVICE LINE FROM METER ON TO PRIVATE PROPERTY SHALL BE RESTRAINED USING MEG-A-LUGS OR "FIELD LOK" GASKETS (OR APPROVED EQUIVALENT). THE LENGTH OF RESTRAINED PIPE ON PRIVATE PROPERTY SHALL BE DETERMINED BY THE DEVELOPER ENGINEER.
6. SET VAULT ON MIN. 6" OF 3/4" MINUS CRUSHED GRAVEL, MECHANICALLY TAMPED TO 95% COMPACTION.
7. FLUSH OUT PIPELINE BEFORE INSTALLING METER. DO NOT ALLOW ANY MUD OR FOREIGN MATERIAL TO ENTER PIPE OR FITTINGS.
8. IF CONNECTION IS NOT COMPLETED TO CUSTOMER'S PIPE, INSTALL M.J., TAP 2", CAP OVER OPEN END OF PIPE OR PLUG, TAP 2", IN VALVE AND FLUSH OUT PIPE AND METER. MAKE WATER TIGHT.
9. METER SENSING PAD IS TO BE LOCATED WITHIN 6" OF HINGE ON VAULT LID AT STREET (INLET) END OF VAULT.
10. 3" AND 4" VALVES SHALL BE A.W.W.A. C509 STANDARD, "O" RING PACKING, NON-RISING STEM, 2" OPERATING NUT, RESILIENT WEDGE, GATE VALVES. (WHEEL OPERATORS INSIDE VAULT.)
11. NON-SHRINK GROUT/FOAM AROUND PIPE. MAKE WATER TIGHT.
12. 2" BALL VALVES SHALL BE LOCKED UPON INSTALLATION W/P.U.D.-SUPPLIED PADLOCKS.
13. BACKFILL AROUND VAULT SHALL BE FIRMLY TAMPED TO ELIMINATE SETTLEMENT.
14. CONCRETE BLOCK OR EQUIVALENT UNDER VALVE IS TO KEEP VALVE FACE VERTICAL DURING INSTALLATION.
15. A SHUTOFF VALVE SHALL BE INSTALLED ON CUSTOMER'S PLUMBING AFTER DISTRICT'S METER, PER U.P.C. SUCH VALVE SHALL BE ACCESSIBLE AT ALL TIMES.



PLAN VIEW  
 REFER TO SHEET 2/2 FOR ELEVATION VIEW.

  
 PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER  
 APPROVED ON: \_\_\_\_\_ MAY 16 \_\_\_\_\_, 2014



STANDARD INSTALLATION OF  
 3" TURBINE METERED SERVICE  
 PLAN VIEW

SHEET 1/2

SCALE: 1" = 2'
DATE: 3-25-05
REVISED: 5/16/14
DRAWN BY: CAS
APPROVED BY: GJS

STANDARD

WS3-2a