

BILL OF MATERIALS

NO.	NOMENCLATURE	REQ'D.
	WATER MAIN	
2	TEE, MAINLINE 4" FL OR STAINLESS STEEL TAPPING SLEEVE EQUIVALENT	1
3	VALVE, 4" DUCTILE IRON, RESILIENT WEDGE, FLxMJ	1
4	NIPPLE, BRASS 2x4	4
5	ADAPTER, BRASS PAK JOINT, 2" M.I.P.T. x PVC (FORD C87-77) ^o	2
6	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND TO TOP OF LADDER	2
7	PIPE, 4" CL 50 DUCTILE IRON (FIELD CUT TO LENGTH)	
8	CLAMP, SERVICE, 4"D.I. x 2"I.P.T., DOUBLE STRAP, ALL BRASS (FORD #F202B) ^o	2
9	RESTRAINED FLANGE COUPLING ADAPTER, 4" ROMAC IND. INC. ^o	1
10	METER, BADGER, 4" TURBO SERIES 1000 ^o	1
11	CASING, 6" PVC SEWER PIPE	1
12	UTILITY VAULT 675LA W/#675-TL-2-332P COVER ^o (SPRING ASSISTED) AND LADDER (BILCO LADDER-UP SAFETY POST) ^{o**}	1
13	VALVE BOX, CAST IRON OLYMPIC FOUNDRY VB-007-SKAGIT (SEE P.U.D. DETAIL)	1
14	VALVE, 4" DUCTILE IRON, RESILIENT WEDGE, FLxMJ	2
15	SPOOL, 4" CL 50 D.I., FLxPE, 12" LONG (FIELD CUT TO LENGTH)	1
16	ELL, 2" BRASS, 90°	2
17	PIPE, 2" PVC, SCHEDULE 80 (FIELD CUT TO LENGTH)	
18	PIPE SUPPORT (MATERIAL RESOURCES #S92 OR #S89) ^o	2
19	RETAINER GLAND, 4" EBAA MEG-A-LUG ^o	3
20	PLUG, 2" BRASS (SEE NOTE 8)	1
21	VALVE, 2" BALL, BRASS, I.P.T. x I.P.T. W/PADLOCK WINGS (FORD B11-777-W) ^o	2

^oOR EQUIVALENT APPROVED BY THE DISTRICT

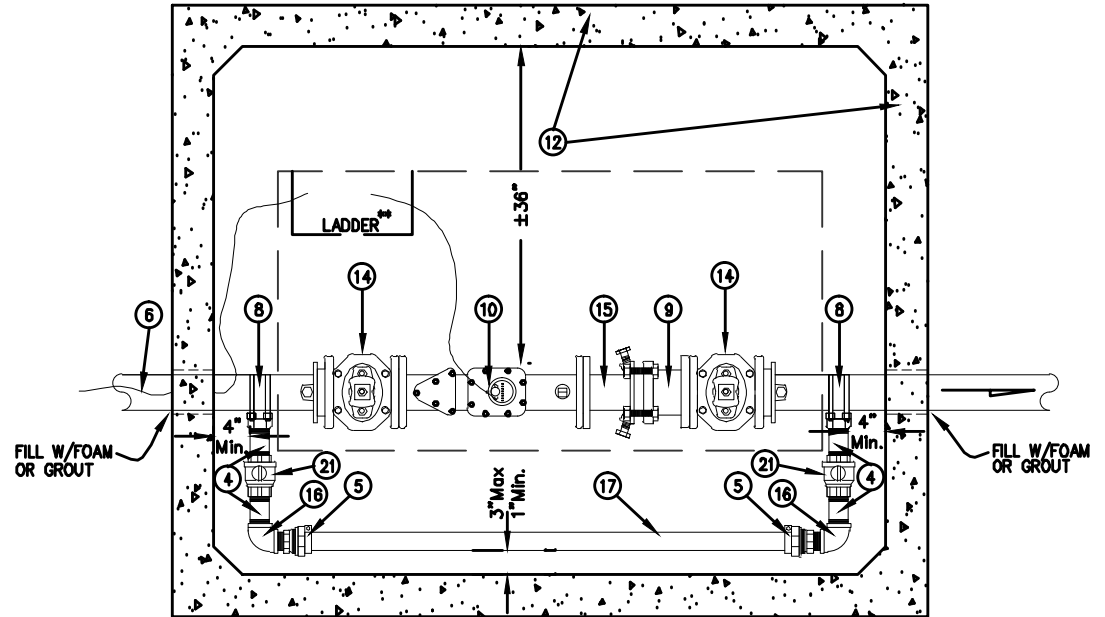
*NOT TO BE USED WHERE FLOW RATE OF LESS THAN 10 GPM OCCURS. COMPOUND METER TO BE USED.

**LOCATION OF LADDER TO BE DETERMINED AT INSTALLATION BY PUD REPRESENTATIVE.

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

NOTES:

- SET VALVE BOX AND VAULT TO FINISH GRADE. SEE P.U.D. VALVE BOX DETAIL.
- SEAL VAULT LIDS AND RISERS OF VAULT WITH 1-1/2"x1" JOINT MASTIC. INSTALL 3" PVC PIPE TO DRAIN TO DAYLIGHT IF POSSIBLE.
- 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.
- TEE, VALVE AND PIPE MUST BE WRAPPED WITH 8 MIL POLYETHYLENE PIPE ENCASEMENT. IT IS TO BE INSTALLED AS PER D.I.P.R.A. AND IN ACCORDANCE WITH A.W.W.A. C105.
- IF SERVICE PIPE IS LONGER THAN ONE (1) LENGTH OF PIPE (18'), THEN U.S. PIPE "FIELD-LOK" GASKETS WILL BE INSTALLED IN T.J., OR EBAA "MEG-A-LUG" IN M.I. BELLS.
- SET VAULT ON MIN. 6" OF 3/4" MINUS CRUSHED GRAVEL, MECHANICALLY TAMPED TO 95% COMPACTION.
- FLUSH OUT PIPELINE BEFORE INSTALLING METER. DO NOT ALLOW ANY MUD OR FOREIGN MATERIAL TO ENTER PIPE OR FITTINGS.
- 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.
- METER SENSING PAD IS TO BE LOCATED WITHIN 6" OF HINGE ON VAULT LID AT STREET (INLET) END OF VAULT.
- 4-INCH 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.)
- NON-SHRINK GROUT/FOAM AROUND PIPE. MAKE WATER TIGHT.
- 2" BALL VALVES SHALL BE LOCKED UPON INSTALLATION W/P.U.D.-SUPPLIED PADLOCKS.
- CONCRETE BLOCK OR EQUIVALENT UNDER VALVE IS TO KEEP VALVE FACE VERTICAL DURING INSTALLATION.
- 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.

[Signature]

PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: _____ MAY 16 _____, 2014



STANDARD INSTALLATION OF
4" 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

WS4-2a