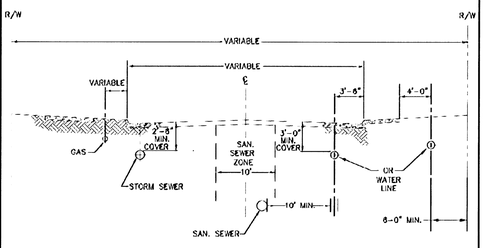
FILED
Date: 1/10/2012 By: MW
This survey consists of:
Map: DS-112 thru 121
Narrative:
Corner Rpt:
DOUGLAS COUNTY
SURVEYOR



NOTES:

1. WATER LOCATED 4' OUTSIDE EDGE OF PAVEMENT OR BACK OF SIDEWALK WHERE POSSIBLE FOR FUTURE MAINTANANCE WITHOUT DISTURBANCE OF IMPROVEMENTS. OTHERWISE, 3'-6" INSIDE FROM FACE OF CURB OR AS DIRECTED.

2. 10' HORIZONTAL SEPARATION BETWEEN WATER AND SEWER WHERE POSSIBLE. COMPLY WITH SEPARATION REQUIREMENTS OF OAR 333-061-050.

3. WATER MAINS SHALL HAVE 36" MINIMUM COVER.

4. SEWER MAINS SHALL HAVE 5.25' (63") MINIMUM COVER UNLESS OTHERWISE APPROVED TO AVOID CONFLICTS WITH WATER AND OTHER UTILITIES.

5. WATER LOCATED ON NORTH OR EAST SIDE OF STREET WHEN PRACTICAL.

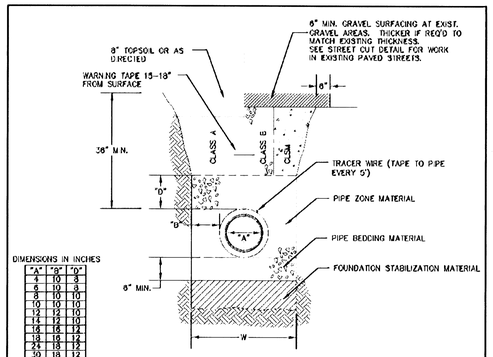
6. WATER AND SEWER SUBJECT TO TRI CITY STANDARDS. STREETS AND STORM SEWERS SHALL BE APPROVED BY DOUGLAS COUNTY.

7. MANHOLE LIDS SHALL NOT BE LOCATED DIRECTLY IN NORMAL WHEEL PATH.

8. ALL LAYOUTS AND LOCATIONS ARE SUBJECT TO TRI CITY APPROVAL.

Tri-City Joint Water & Sanitary Authority
215 N. Old Pacific Highway
Myrtle Creek, Oregon 97457
541.863.3276

STANDARD UTILITY LOCATIONS	DETAIL NO. W-050
	5/17/05



DIMENSIONS IN INCHES

"A"	"D"	"O"
4	10	8
6	10	8
8	10	10
10	10	10
12	12	10
14	12	10
16	16	12
18	16	12
24	18	12
30	18	12
36	24	14

NOTES:

1. TRENCH EXCAVATION SHALL BE CONDUCTED IN A SAFE MANNER WITH ALL NECESSARY BRACING AND SHORING PROVIDED FOR COMPLIANCE WITH OSHA.

2. FOUNDATION STABILIZATION SHALL BE PROVIDED WHEN MATERIAL AT BOTTOM OF TRENCH IS UNSUITABLE IN THE OPINION OF THE AUTHORITY TO PROVIDE A STABLE TRENCH BASE.

3. CONSTRUCTION IN DOUGLAS COUNTY RIGHT-OF-WAY SHALL COMPLY WITH COUNTY STANDARDS AND TRI CITY STANDARDS.

4. CLASS B BACKFILL REQUIRED IN ALL ROADWAYS AND TRAFFIC PATHS EXCEPT WHERE CDF BACKFILL IS ACCEPTED BY DOUGLAS COUNTY OR AUTHORITY.

5. TRACER WIRE REQUIRED AT ALL NON-METALLIC PIPELINES. WIRE SHALL BE 12 GA. MINIMUM SOLID COPPER WIRE WITH BLUE 30 MIL THICK HDPE INSULATION RATED FOR DIRECT BURY. USE APPROVED WATERPROOF SPLICE AT ALL CONNECTIONS.

6. WARNING TAPE SHALL BE 6" WIDE, 4 MIL THICK, APWA BLUE, READING "CAUTION WATER LINE BURIED BELOW".

7. MATERIALS SHALL BE AS SPECIFIED BY THE AUTHORITY IN THE STANDARDS MANUAL.

8. COMPACT ALL FILL TO 95% MOD PER ASTM D698. SUFFICIENT COMPACTION TESTS WILL BE REQUIRED TO PROVE METHODS AND COMPACTION EFFORT IS SUFFICIENT.

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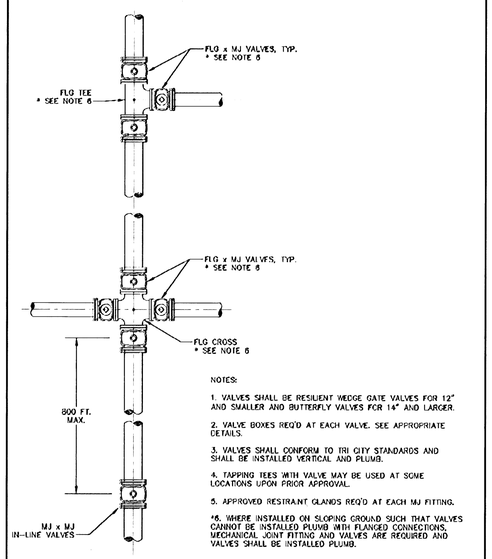
TYPICAL WATERLINE TRENCH DETAILS	DETAIL NO. W-150
	5/17/05



NOTES:

1. VALVES SHALL BE RESILIENT WEDGE GATE VALVES FOR 12" AND SMALLER AND BUTTERFLY VALVES FOR 14" AND LARGER.

2. VALVE BOXES REQ'D AT EACH VALVE. SEE APPROPRIATE DETAILS.

3. VALVES SHALL CONFORM TO TRI CITY STANDARDS AND SHALL BE INSTALLED VERTICAL AND PLUMB.

4. TAPPING TEES WITH VALVE MAY BE USED AT SOME LOCATIONS UPON PRIOR APPROVAL.

5. APPROVED RESTRAINT GLANDS REQ'D AT EACH MJ FITTING.

*6. WHERE INSTALLED ON SLOPING GROUND SUCH THAT VALVES CANNOT BE INSTALLED PLUMB WITH FLANGED CONNECTIONS, MECHANICAL JOINT FITTING AND VALVES ARE REQUIRED AND VALVES SHALL BE INSTALLED PLUMB.

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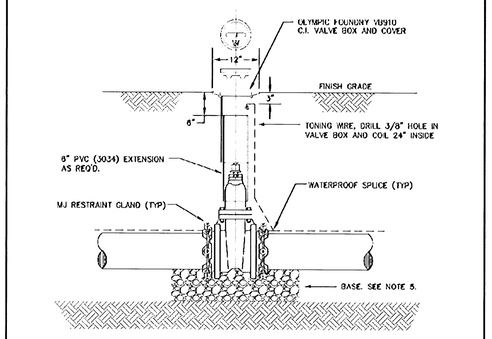
TYPICAL WATER VALVE LOCATIONS (MINIMUM)	DETAIL NO. W-100
	12/1/06



NOTES:

1. VALVE BOX SHALL BE CENTERED OVER VALVE OPERATING NUT.

2. PVC EXTENSION SHALL BEGIN AS CLOSE TO VALVE AS POSSIBLE AND SHALL EXTEND TO WITHIN 6" OF GROUND SURFACE.

3. TOP OF VALVE BOX SHALL BE FLUSH WITH FINISH GRADE.

4. VALVE EQUIPPED WITH 2" SQUARE OPERATING NUT LOCATED WITHIN 24" FROM GROUND SURFACE. SEE VALVE OPERATOR EXTENSION DETAIL WHERE REQUIRED.

5. VALVES 12" AND SMALLER SHALL BE PROVIDED WITH CLASS B BASE. VALVES LARGER THAN 12" SHALL BE INSTALLED ON PRECAST CONCRETE PIER BLOCK.

6. NO PIPE JOINTS ALLOWED WITHIN 10' OF IN-LINE VALVES UNLESS JOINT RESTRAINT DEVICE PROVIDED.

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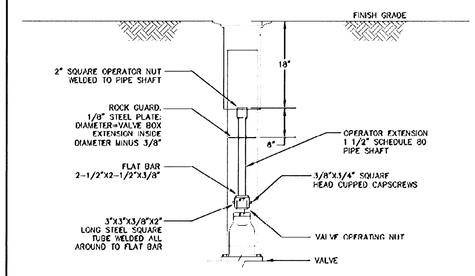
STANDARD WATER VALVE SETTING DETAIL	DETAIL NO. W-200
	5/17/05



NOTES:

1. WHERE DEPTH IS OVER 6 FEET, A SECOND ROCK GUARD PLATE IS REQUIRED EQUALLY SPACED BETWEEN THE TOP ROCK GUARD AND THE VALVE NUT.

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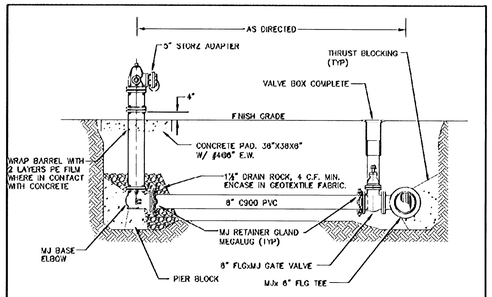
VALVE OPERATOR EXTENSION DETAIL	DETAIL NO. W-205
	5/17/05



NOTES:

1. FIELD VERIFY SPOOL LENGTHS AND HYDRANT BARREL LENGTH REQUIRED AT EACH HYDRANT. NO JOINTS ALLOWED WHERE SPOOL LENGTH IS LESS THAN 18 FEET.

2. HYDRANT SHALL BE INSTALLED PLUMB.

3. KEEP DRAIN HOLES CLEAR AND FREE TO DRAIN.

4. SEE DETAILS FOR VALVE SETTING, THRUST BLOCKING, AND TRENCH.

5. HYDRANTS, VALVES AND OTHER MATERIALS SHALL BE AS SPECIFIED IN THE STANDARDS MANUAL.

6. A MINIMUM OF 36" OF CLEAR SPACE AROUND HYDRANTS IS REQUIRED PER UFC (NO POSTS, WALLS, SIGNS, ETC.). 5 FOOT MIN. DESIRED. THERE SHALL BE NO OBSTRUCTIONS DIRECTLY IN LINE WITH ANY OF THE PORTS OF A HYDRANT.

7. HYDRANT PUMPER PORT SHALL FACE DIRECTION OF ACCESS.

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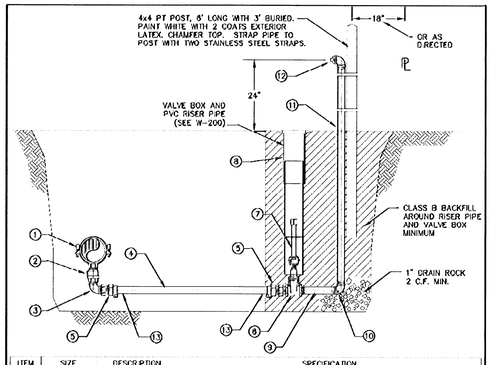
STANDARD FIRE HYDRANT ASSEMBLY DETAIL	DETAIL NO. W-300
	5/17/05



ITEM	SIZE	DESCRIPTION	SPECIFICATION
1	AS REQ'D	SADDLE	FORD S31 (ALL C900 12" OR LESS); FORD/ROMAC 101S OR 202S, MUELLER H-13000 SERIES; 2" IP TAP
2	2"	BALL CORP. STOP	MIP IN x MIP OUT; FORD FB5007, MUELLER B-2969
3	2"	ELBOW	304 STAINLESS STEEL OR BRASS ELBOW
4	2"	PIPE	HDPE (PE 3408), SDR 7, 200 PSI, IPS FITTING COMPATIBLE, NSF 61
5	2"	PJ COUPLING	PRP PACK JOINT x MIP; FORD C08-77-IDNF, MUELLER E-15429
6	2"	VALVE	AWWA C509 RESILIENT WEDGE GATE VALVE, THRD. ENDS, 2" NUT
7	AS REQ'D	EXTENSION	VALVE OPERATOR EXTENSION
8	N/A	VALVE BOX	VALVE BOX AND COVER
9	2"	NIPPLE	SCH. 40 304 SS OR BRASS THRD. NIPPLE, 12" LONG
10	2"	ELBOW	304 SS OR BRASS 90° ELBOW, DRILL 1/8" HOLE FOR DRAIN
11	2"	PIPE	GALV. PIPE AS REQ'D.
12	2"	ELBOW/PLUG	GALV. ELBOW WITH MIP THRD. PLUG
13	2"	STIFFENER	304 SS INSERT STIFFENER; FORD 70 SERIES, MUELLER 529117

NOTES:

USE ONLY WHERE APPROVED. GENERALLY LOCATED AT LOCAL LOW POINTS IN THE PIPING SYSTEM WHERE HYDRANT IS NOT PRACTICAL. HYDRANTS OR LARGER BLOW-OFF MUST ALSO BE LOCATED NEARBY TO ALLOW PROPER FLUSHING. MAY BE ALLOWED ON 8" MAINS WHERE LINE PRESSURE EXCEEDS 75 PSI.

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2" BLOW-OFF ASSEMBLY	DETAIL NO. W-400
	7/1/06

CALL BEFORE YOU DIG !
ONE CALL: (800) 332-2344
OAR 952-001-0010 THROUGH
OAR 952-001-0090

REGISTERED PROFESSIONAL ENGINEER
14928
OREGON
JULY 25, 1980
DAVID T. BUHL
EXPIRES: 12/31/2009

Rev.	Date	Dwg	Description
1	4/20/07	BWC	AGENCIES REVIEW
3	3/18/09	ANV	AS-BUILTS

i.e. ENGINEERING
809 SE Pine Street
Roseburg, Oregon 97470
PHONE (541) 673-0166
FAX (541) 440-9392
iemail@ieengineering.com

Project Name:
CAMELOT
Title:
CONSTRUCTION DETAILS

DES JPM	PROJECT NO. 973-21T2
DWG BWC	DATE: MARCH 27, 2007
CHK SNL	SCALE: AS SHOWN
APP SNL	SHEET: 6 OF 10

DO NOT DUPLICATE

DS-117