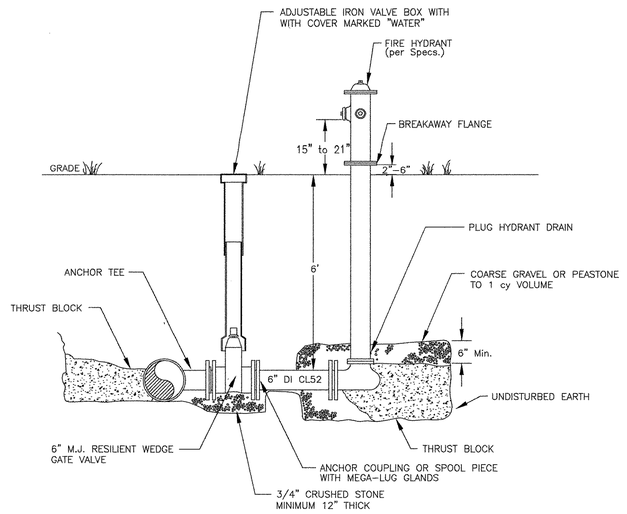
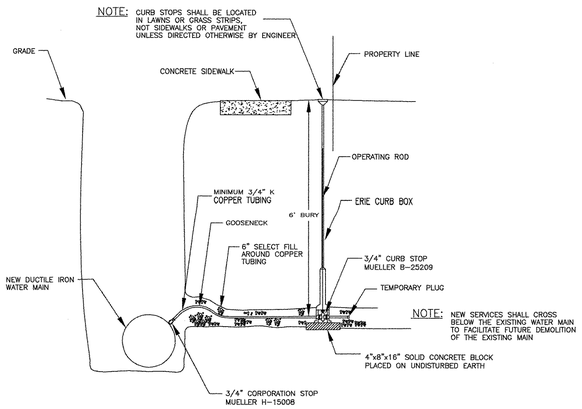


NOTES:

1) ALL FITTINGS ARE TO HAVE MEGA-LUG RETAINER GLANDS
2) PRIOR TO POURING THRUST BLOCKS ALL FITTINGS ARE TO BE WRAPPED WITH 4mil. POLYETHYLENE.

HYDRANT ASSEMBLY DETAIL

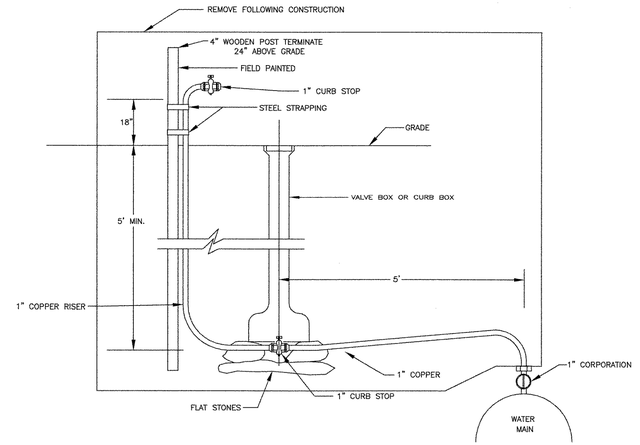
NOT TO SCALE



NOTE: SEE SPECIFICATIONS FOR TAPPING SADDLE REQUIREMENTS

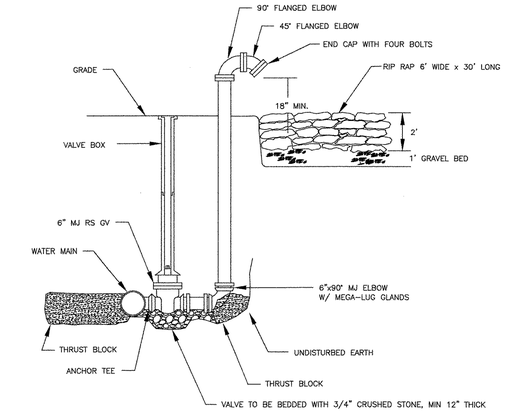
WATER SERVICE CONNECTION

NOT TO SCALE



MANUAL AIR RELEASE and/or CHLORINATION INJECTION INSTALLATION

NOT TO SCALE

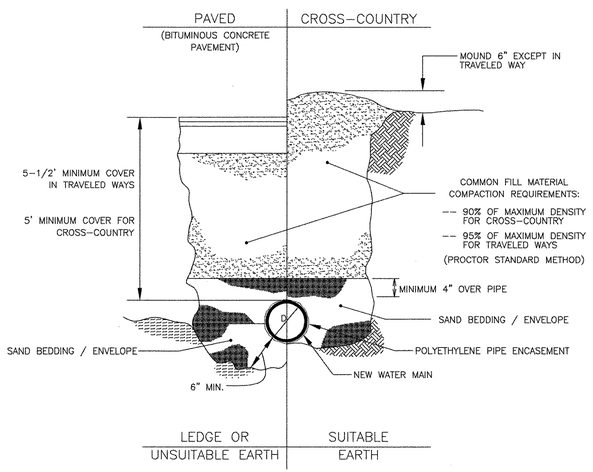


NOTES:

1) PRIOR TO POURING THRUST BLOCKS, ALL FITTINGS TO BE WRAPPED IN 4 MIL. POLYETHELENE
2) MEGA-LUG GLANDS OR APPROVED EQUAL ARE TO BE USED ON ALL MJ FITTINGS.

6" BLOWOFF ASSEMBLY

NOT TO SCALE



TYPICAL TRENCH DETAIL

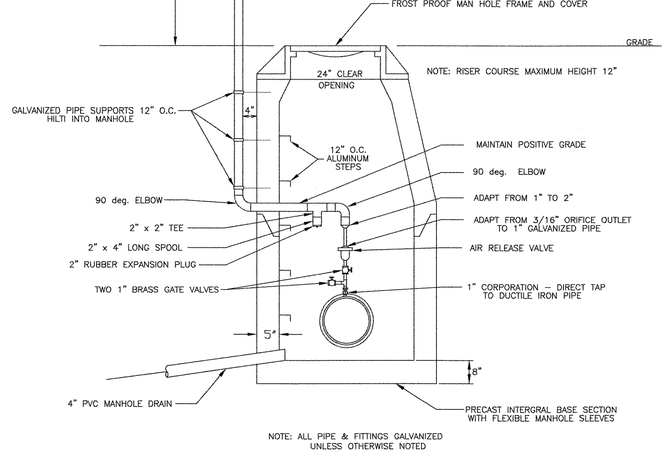
NOT TO SCALE

MINIMUM AREA OF BEARING SURFACE OF CONC. THRUST BLOCKS
(IN SQUARE FEET)

3"				4"				6"				8"				12"				16"				SOIL CONDITIONS	SAFE BEARING LOAD (PSF)
ENDS & TEES	90° ELB	45° ELB	22.5° ELB	ENDS & TEES	90° ELB	45° ELB	22.5° ELB	ENDS & TEES	90° ELB	45° ELB	22.5° ELB	ENDS & TEES	90° ELB	45° ELB	22.5° ELB	ENDS & TEES	90° ELB	45° ELB	22.5° ELB	ENDS & TEES	90° ELB	45° ELB	22.5° ELB		
0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	4.0	5.5	3.0	1.5	8.0	10.0	5.0	4.0	SOUND SHALE	10,000
1.0	1.0	1.0	0.5	1.5	2.0	1.0	0.5	3.0	4.0	2.0	1.0	4.5	6.5	3.5	2.0	10.0	14.0	7.5	4.0	25.0	30.0	15.0	12.0	CEMENTED GRAVEL & SAND	4,000
1.0	1.5	1.0	0.5	2.0	2.5	1.5	1.0	3.5	5.0	3.0	1.5	6.0	8.5	5.0	2.5	13.0	18.5	10.0	5.0	30.0	35.0	20.0	15.0	COARSE & FINE COMPACT SAND	3,000
1.5	2.5	1.5	1.0	2.5	3.5	2.0	1.0	5.5	7.5	4.0	2.0	9.0	13.0	7.0	3.5	20.0	27.5	15.0	8.0	40.0	45.0	25.0	20.0	MEDIUM CLAY (CAN BE SPADED)	2,000
3.0	4.5	2.5	1.5	5.0	7.0	4.0	2.0	10.5	15.0	8.0	4.0	18.0	25.0	14.0	7.0	39.0	55.0	30.0	15.0	80.0	90.0	50.0	40.0	SOFT CLAY	1,000

MAXIMUM WATER PRESSURE = 300 PSI NOTE: REDUCER BEARING AREA = 45° BEND, LARGER PIPE

THRUST BLOCK SIZING CHART



NOTE: ALL PIPE & FITTINGS GALVANIZED UNLESS OTHERWISE NOTED

AIR RELEASE MANHOLE

NOT TO SCALE

CHAMPLAIN WATER DISTRICT
403 Queen City Park Road
South Burlington, VT 05403
Phone: (802) 864-7454
Fax: (802) 864-0435

Dedicated to Quality Water and Service

SCALE: NONE

REVISIONS

REV. #	DATE	BY

STATE OF VERMONT · RICHARD ALAN PRAY · NO. 6617 · REGISTERED PROFESSIONAL ENGINEER

CONTRACT #63
WATER MAIN RELOCATION
U.S. ROUTE 7 - SHELBURNE ROAD

TYPICALS

DATE:	APRIL, 2002
DESIGNED BY:	RAP
DRAWN BY:	EJP
CHECKED BY:	RAP
APPROVED BY:	RAP
FILE NAME:	C63_TYP1
SHEET 17 OF 18	
DRAWING No.	TYP1

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