

AS-BUILT PLANS

AS-BUILT PLANS NOVEMBER 1997

FILED

Date: 2-11-1998 By: J.P.

This survey consists of:

Map: _____

Narrative: _____

Corner Rpt: _____

DOUGLAS COUNTY SURVEYOR

PLANS PREPARED BY
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WATER PLAN
AND DETAILS

NOVEMBER 1997
SHEET
3 OF 4

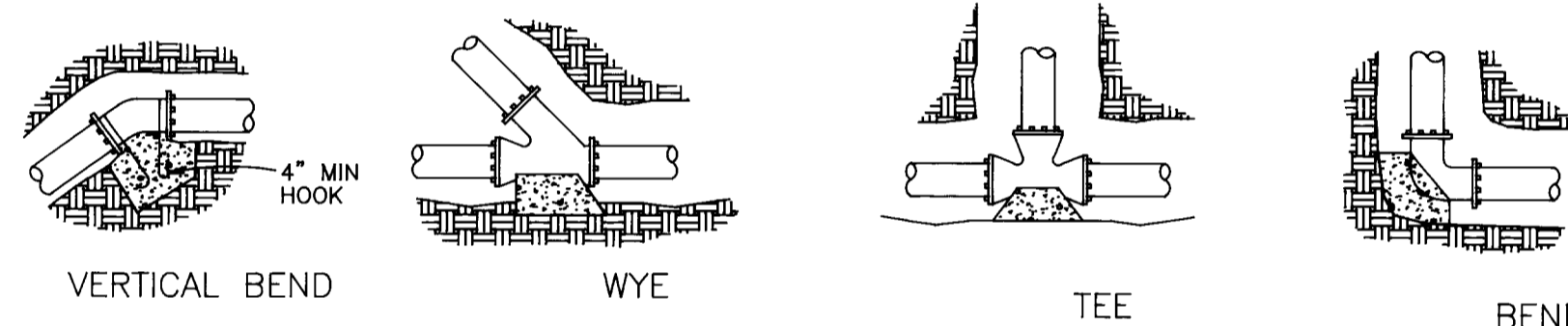
- ### GENERAL WATER SYSTEMS NOTES
- ALL WATER SYSTEM WORK SHALL BE IN CONFORMANCE WITH ROBERTS CREEK WATER DISTRICT GENERAL SPECIFICATIONS AVAILABLE FROM ROBERTS CREEK WATER DISTRICT.
 - PIPE FOR WATER MAINLINES ON PRIVATE PROPERTY SHALL BE 4" C900 PVC, 6" C900 PVC AND ALL OTHER PIPE IN COUNTY RIGHT OF WAY SHALL BE C-900 PVC CLASS 200 OR D.I. PIPE.
 - THE CONTRACTOR SHALL FLUSH, HYDROSTATICALLY TEST AND CHLORINATE ALL NEW WATER MAINLINES INSTALLED. THE ENGINEER SHALL WITNESS ALL TESTS MADE BY THE CONTRACTOR TO INSURE THEY ARE PERFORMED PROPERLY. TEST PRESSURE SHALL BE DETERMINED BY THE ENGINEER PRIOR TO TESTING.
 - ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY ROBERTS CREEK WATER DISTRICT. THE CONTRACTOR SHALL GIVE RCWD 48 HOURS NOTICE PRIOR TO BEGINNING CONSTRUCTION.
 - NO OTHER MAJOR UTILITIES SHALL RUN PARALLEL WITHIN 3 FEET OF THE NEW WATERMAIN.
 - THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS AND FITTINGS AS PER ROBERTS CREEK WATER DISTRICT STANDARD DRAWING.
 - THE CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL DEVICES AND PERSONNEL TO CONFORM WITH REQUIREMENTS OF THE M.U.T.C.D. AND THE DOUGLAS COUNTY PUBLIC WORKS DEPARTMENT.
 - LOCATIONS OF ALL UTILITIES SHOWN HEREON ARE APPROXIMATE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
 - WHEREVER SEWER LATERALS CROSS WATER LINES WITH LESS THAN 18" VERTICAL CLEARANCE, THE SEWER LATERAL SHALL BE C900 PVC OR DUCTILE IRON PIPE 9" MINIMUM EACH SIDE OF WATER LINE.

FITTING SIZE	(HORIZONTAL) BEARING AREA OF THRUST BLOCKS IN SQUARE FEET						(VERTICAL) VOLUME OF THRUST BLOCK IN CUBIC YARDS					
	TEE, WYE, DEAD END AND HYDRANT	STRADDLE BLOCK	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22-1/2° BEND	11-1/4° BEND	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
				A-1	A-2							
4	1.0	1.6	1.4	1.9	1.4	1.0	---	---	---	---	---	---
6	2.1	3.7	3.0	4.3	3.0	1.6	1.0	---	1.3	0.7	---	---
8	3.8	6.5	5.3	7.6	5.4	2.9	1.5	1.0	2.3	1.1	---	---

- NOTES:
- ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:

$$\text{BEARING AREA} = (\text{TEST PRESSURE} / 150) \times (2000 / \text{SOIL BEARING STRESS}) \times (\text{TABLE VALUE})$$
 - ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE = 4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:

$$\text{VOLUME} = (\text{TEST PRESSURE} / 150) \times (\text{TABLE VALUE})$$

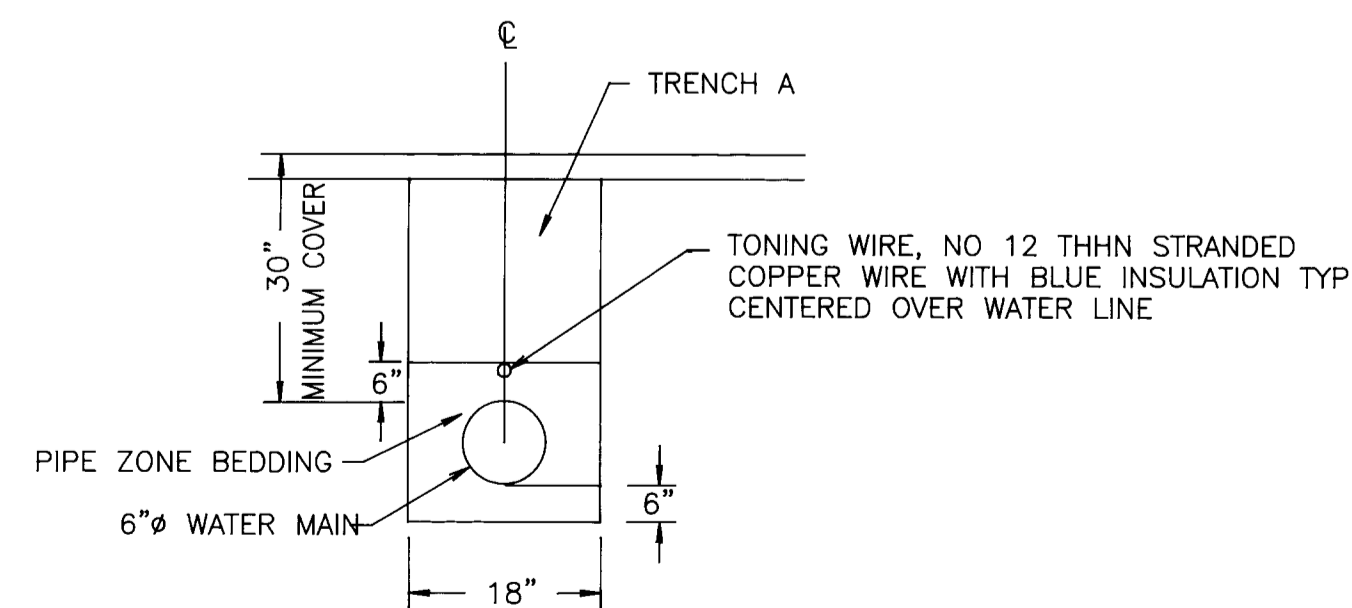


RODS FOR VERTICAL BENDS		
FITTING SIZE	ROD SIZE	EMBEDMENT
12" AND LESS	#6	30"
14"-16"	#8	36"

- NOTES:
- CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
 - ALL CONCRETE TO BE CLASS 2400 MINIMUM.
 - INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
 - CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
 - TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH.

TYPICAL WATER MAIN TRENCH SECTION

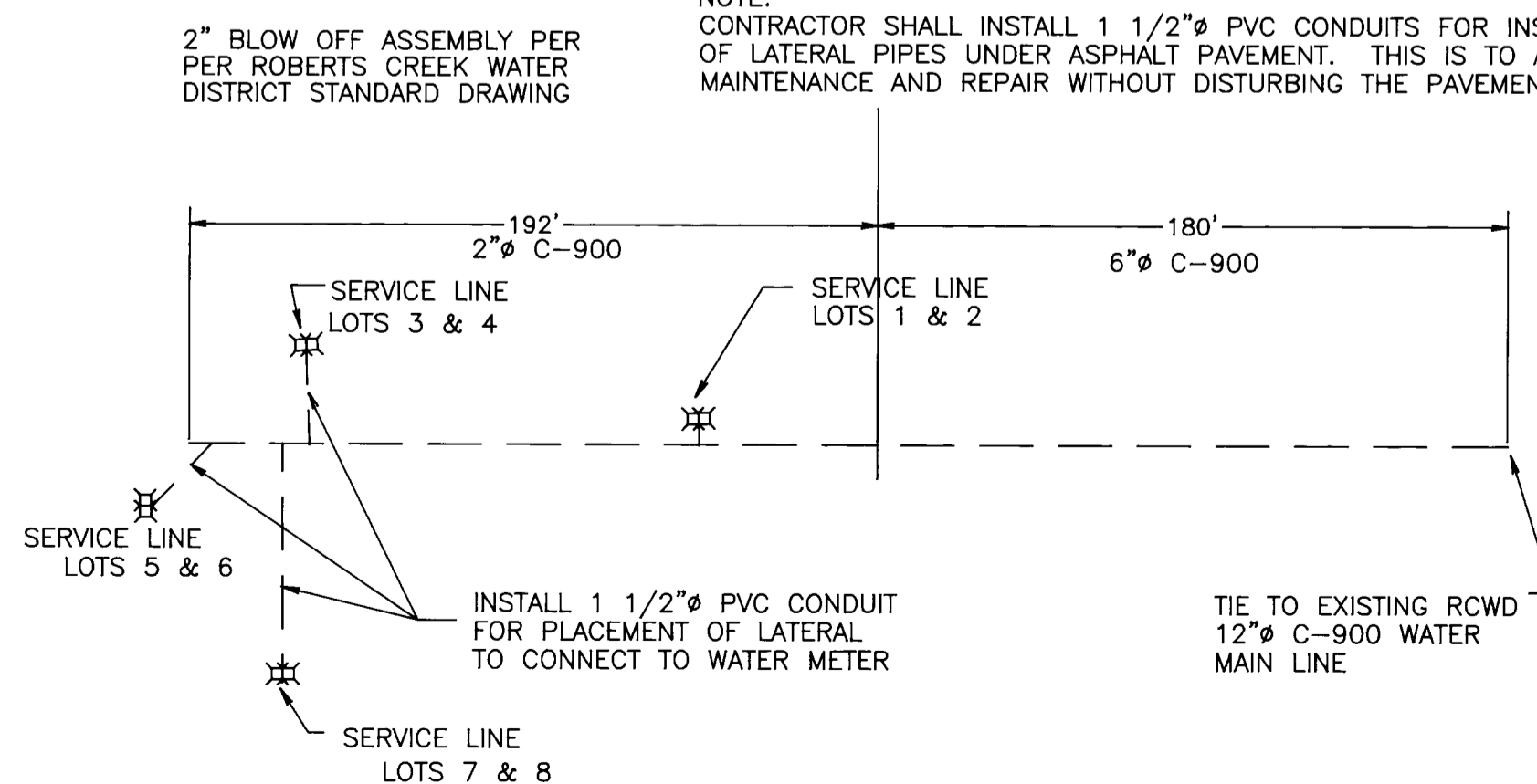
SCALE 1/2" = 1' 0"



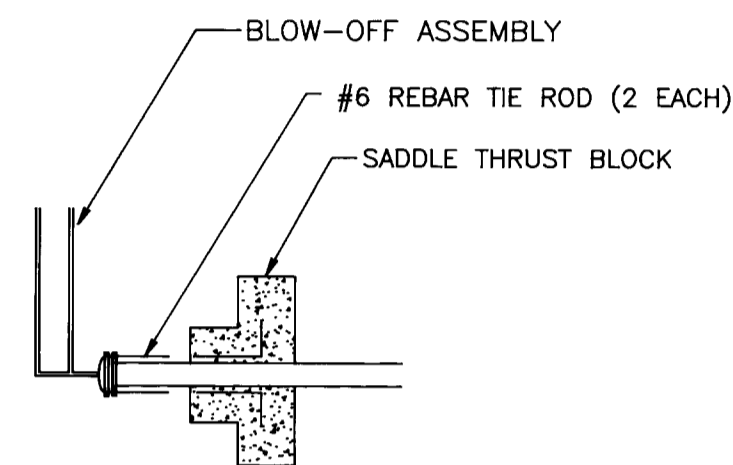
STRAIGHT LINE WATER MAIN DETAIL

NOT TO SCALE

NOTE:
CONTRACTOR SHALL INSTALL 1 1/2" PVC CONDUITS FOR INSTALLATION OF LATERAL PIPES UNDER ASPHALT PAVEMENT. THIS IS TO ALLOW MAINTENANCE AND REPAIR WITHOUT DISTURBING THE PAVEMENT.

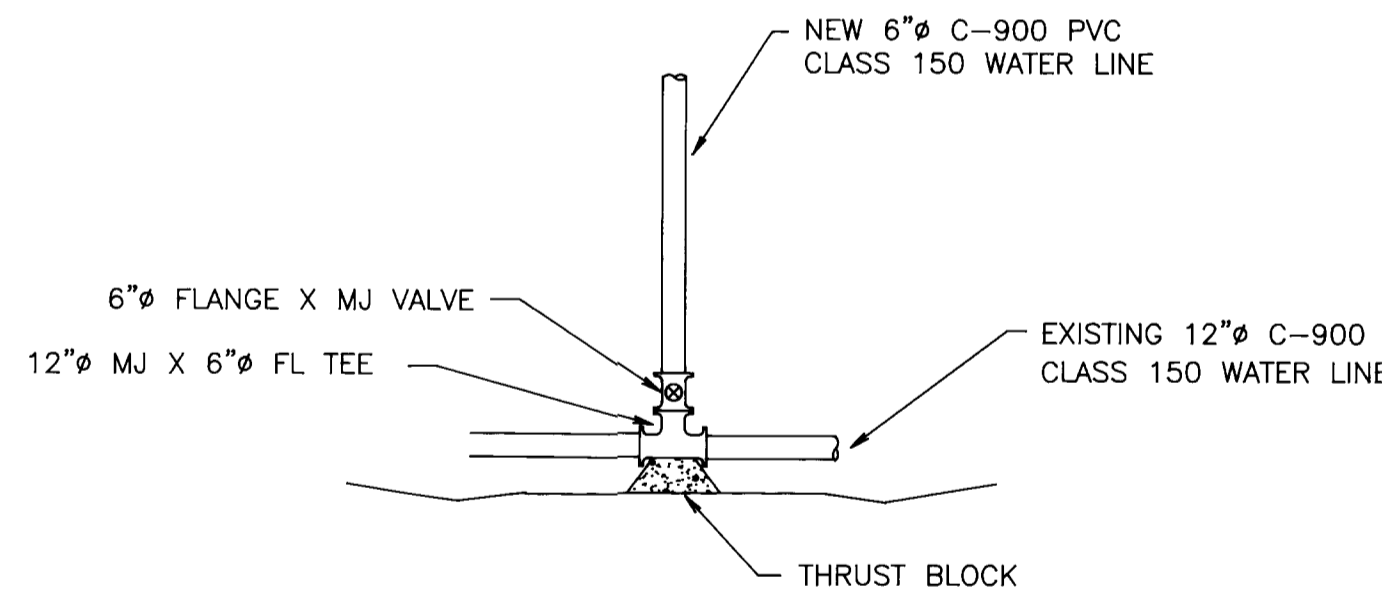


DETAIL C

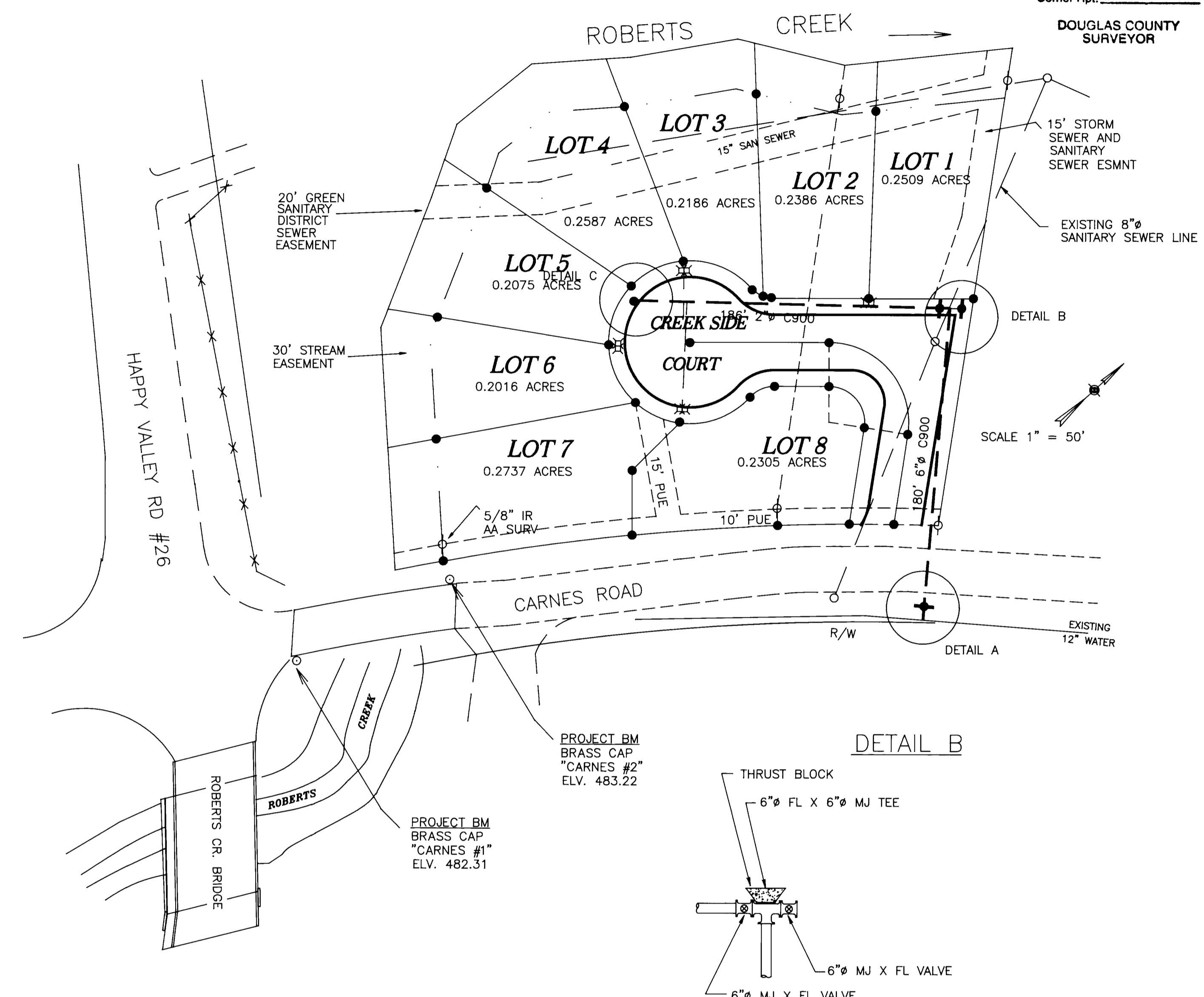
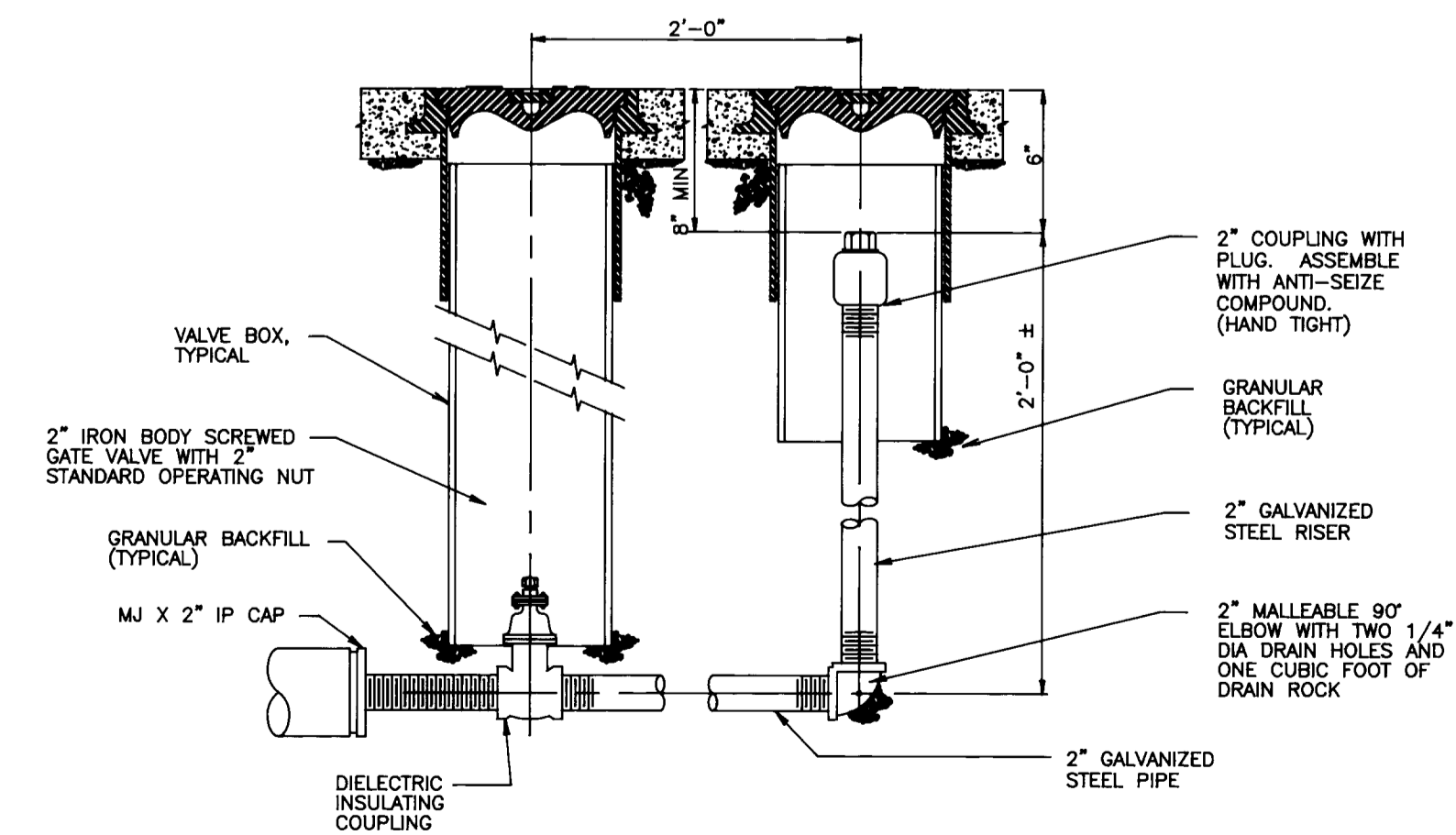


DETAIL A

NOT TO SCALE



TYPICAL 2" BLOWOFF ASSEMBLY



RD402WTR