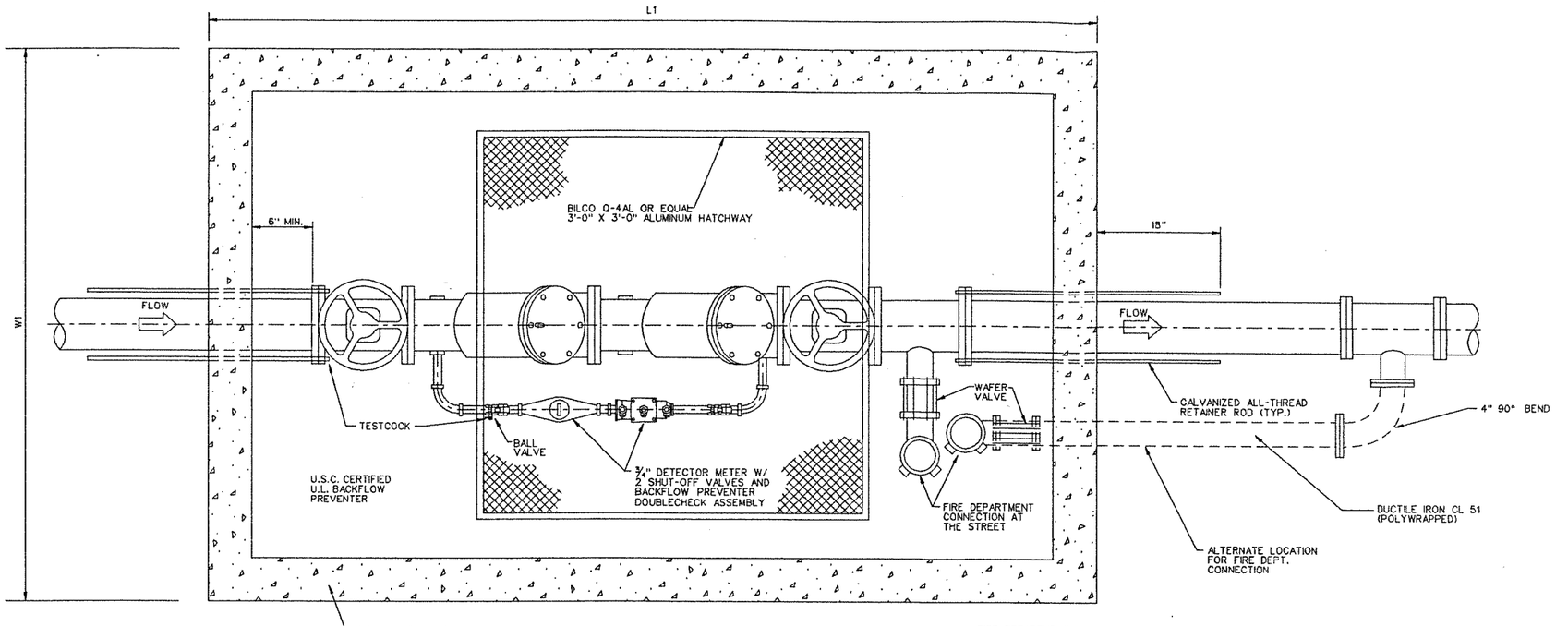
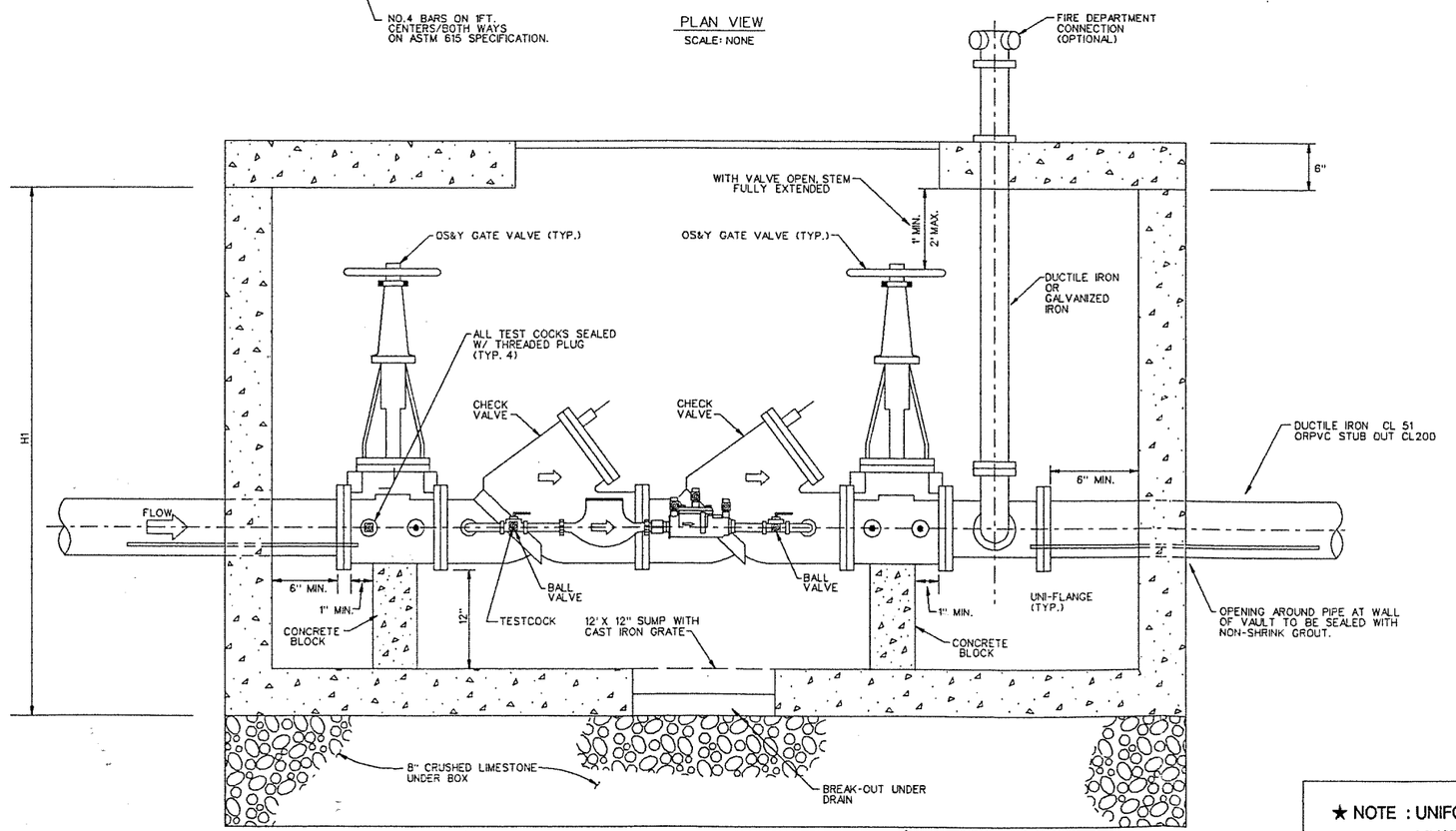


PLAN VIEW

SCALE: NONE



ELEVATION

SCALE: NONE

SPECIFICATIONS

CONCRETE: CONCRETE WITH DESIGN STRENGTH OF OF 4500 P.S.I. AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED. STEEL REBAR CONFORMING TO ASTM A-615 ON REQUIRED CENTERS OR EQUAL.

HATCHWAY: 1/4" ALUMIUM DIAMOND PLATE COVER WITH EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH 316 STAINLESS STEEL SNAP LOCK AND BRASS HINGES.

(PARK EQUIPMENT DETAIL)

DIMENSIONS					
MODEL	SIZE	L1	W1	H1	WEIGHT LBS
DDBP3	3"	6'-0"	3'-6"	4'-0"	2,700
DDBP4	4"	6'-0"	3'-6"	4'-0"	2,900
DDBP6	6"	7'-10"	4'-4"	5'-5"	9,000
DDPB8	8"	8'-8"	5'-0"	5'-6"	15,000
DDBP10	10"	9'-2"	5'-8"	8'-6"	18,000

1. THE DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY SHALL CONSIST OF A SINGLE COMPLETE ASSEMBLY CONTAINING TWO INDEPENDENT ACTING CHECK VALVES AND FOUR PROPERLY PLACED RESILIENT TEST COCKS FOR TEST OF THE ASSEMBLY. ASSEMBLY SHALL ALSO INCLUDE TWO(2) U.L. LISTED RESILIENT SEATED OS & Y SHUTOFF VALVES AND TEST COCKS.
2. THIS UNIT SHALL BE U1/FM APPROVED WITH UL/FM APPROVED OS & Y.R.W. SHUTOFF VALVES.
3. O S & Y VALVES SHALL BE MUELLER, WATEROUS, KENNEDY OR AN APPROVED EQUAL.
4. THE AUXILIARY LINE SHALL CONSIST OF AN APPROVED BACKFLOW PREVENTER (DOUBLE CHECK ASSEMBLY COMPLETED WITH TEST COCKS) AND A 5/8" X3/4" WATER METER.
5. THE BYPASS AUXILIARY LINE SHALL HAVE A DOUBLE CHECK ASSEMBLY, WATTS SERIES 007, AMES 2000 SS BV OR FEBCO 805 Y OR AN APPROVED EQUAL.
6. THE BYPASS AUXILIARY LINE 5/8" X 3/4" METER SHALL BE HERSEY, NEPTUNE OR BADGER.
7. THE BACKFLOW PREVENTER SHALL HAVE A EPOXY COATED CAST IRON BODY, EPOXY COATED DUCTILE IRON BODY OR STAINLESS STEEL BODY, WITH REPLACEMENT BRONZE SEATS AND/OR A UNITIZED STAINLESS AND PLASTIC CHECK ASSEMBLY.
8. THE DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY SHALL BE A WATTS SERIES 709 DCDA OSYRW, AMES MODEL 3000 SS OR FEBCO MODEL 856 OR AN APPROVED EQUAL.
9. 4" WAFER CHECK VALVES SHALL BE KENNEDY, RELIABLE MODEL DW, MUELLER A 2102 OR NIBCO W-900W OR AN APPROVED EQUAL.
10. THE VALVE VAULT MAY BE PRECAST AS PER DETAILS OF DALWORTH QUITSET OR BROOKS PRODUCTS OR AN APPROVED EQUAL.
11. THE INSTALLATION OF THE CHECK VALVES AND VAULT WILL BE INSPECTED BY THE PUBLIC WORKS DEPARTMENT CITY OF GRAND PRAIRIE AND SHALL BE REQUIRED TO BE PERMITTED THOUGH THE PUBLIC WORKS DEPARTMENT , CITY OF GRAND PRAIRIE. THE APPLICANT WILL BE REQUIRED TO PAY A PERMIT FEE IN THE AMOUNT OF 4%OF THE CONTRACT AMOUNT AND ISSUE A MAINTENANCE BOND IN THE AMOUNT OF 50% OF THE CONTRACT AMOUNT TO REMAIN IN EFFECT FOR TWO (2) YEARS FROM DATE OF ACCEPTANCE OF INSTALLATION.
12. THE PIPE LINE FROM THE CHECK VALVE VAULT TO THE BUILDING WILL BE INSPECTED BY THE PLUMBING INSPECTION DIVISION, CITY OF GRAND PRAIRIE AND WILL BE REQUIRED TO SECURE A PERMIT FROM THE BUILDING INSPECTION DEPARTMENT OF THE CITY OF GRAND PRAIRIE.
13. UPON INSTALLATION AND APPROVED OF FIRE SPRINKLER LINE/FIRE DEPARTMENT CONNECTION, THE OWNER SHALL BE REQUIRED TO SUBMIT A YEARLY TEST REPORT FROM A REPUTABLE TESTING COMPANY STATING THAT THE CHECK VALVES ARE IN GOOD WORKING CONDITION. THESE TEST REPORT SHALL BE SUBMITTED TO THE CITY OF GRAND PRAIRIE ENVIRONMENTAL SERVICES DEPARTMENT AND THE FIRE DEPARTMENT ONCE A YEAR AS REQUIRED BY THE TNRCC RULES IN REGULATIONS AND CITY OF GRAND PRAIRIE CODE OF ORDINANCES . THE TESTING OF BACKFLOW PREVENTER ASSEMBLIES WHICH ARE INSTALLED TO PROVIDE PROTECTION AGAINST HEALTH HAZZARDS ARE TO BE COMPLETED BY CERTIFIED FIRELINE TESTERS THAT ARE QUALIFIED TO TEST AND REPAIR BACKFLOW PREVENTER ASSEMBLIES ON FIRE LINES ONLY.
14. THE MAINTENANCE OF THE DOUBLE CHECK DETECTOR BACKFLOW ASSEMBLY SHALL BE MAINTAINTED BY THE PROPERTY OWNER. THE VAULT SHALL BE LOCATED ON THE OWNER'S PROPERTY AND NOT WITHIN CITY RIGHT-OF-WAY.
15. THE VAULT SHALL BE PLACED ON 8" CRUSHED LIMESTONE AND THE VAULT SHALL HAVE A SUMP WITH A MINIMUM OF A 12" X 12" GRATE IN THE BOTTOM OF THE VAULT FOR DRAIN PURPOSES.
16. THE ASSEMBLY SHALL MEET THE BASIC REQUIRMENTS OF ASSE 1048 FOR DOUBLE CHECK VALVES AND MEET REQUIREMENTS OF AWWA, CSA, UL CLASSIFIED, FM APPROVED. ASSEMBLY SHALL ALSO BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRALIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA.
17. THE OWNER AT HIS OPTION AND THE APPROVAL OF THE CITY OF GRAND PRAIRIE MAY BE PERMITTED TO INSTALL THE DOUBLE CHECK DETECTOR BACKFLOW PREVENTER ASSEMBLY INSIDE THE BUILDING. THE INSTALLATION WOULD BE REQUIRED TO BE PERMITTED WITH THE BUILDING INSPECTION DEPARTMENT AND WILL BE INSPECTED BY THE ENVIRONMENTAL SERVICES DEPARTMENT, BUILDING INSPECTION DEPARTMENT. THE FIRE DEPARTMENT CONNECTION IS TO BE LOCATED AT THE STREET. FIRE DEPARTMENT CONNECTION SHALL BE WITHIN 6FT. OF CURB ,UNOBSTRUCTED AND IN CLEAR VIEW. WATER UTILITY PERSONNEL TO HAVE ACCESS DURING NORMAL BUSINESS HOURS.
18. THE FIRE DEPARTMENT CONNECTION MAYBE INSTALLED OUTSIDE THE VAULT WITH THE APPROVAL OF THE ENGINEERING DIVISION.

ALL OTHER DETAILS AND SPECIFICATIONS AS SHOWN ABOVE WILL GOVERN WITH THE INSTALLATION OF THE ASSEMBLY.

★ NOTE : UNIFORM PLUMBING CODE REQUIRES THAT THIS DEVICE MUST BE TESTED IMMEDIATELY UPON INSTALLATION. COPIES OF THE TEST REPORT MUST BE FORWARDED TO THE ENVIRONMENTAL SERVICES DEPARTMENT.

REVISED 12/08/97

VAULT AND APPURTENANCES STANDARDS

FIRE / LINE DEPARTMENT CONNECTION

CITY OF GRAND PRAIRIE FIRE SPRINKLER

CITY OF GRAND PRAIRIE

DESIGN	DRAWN	DATE	SCALE	AVO	FILE	NO.
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