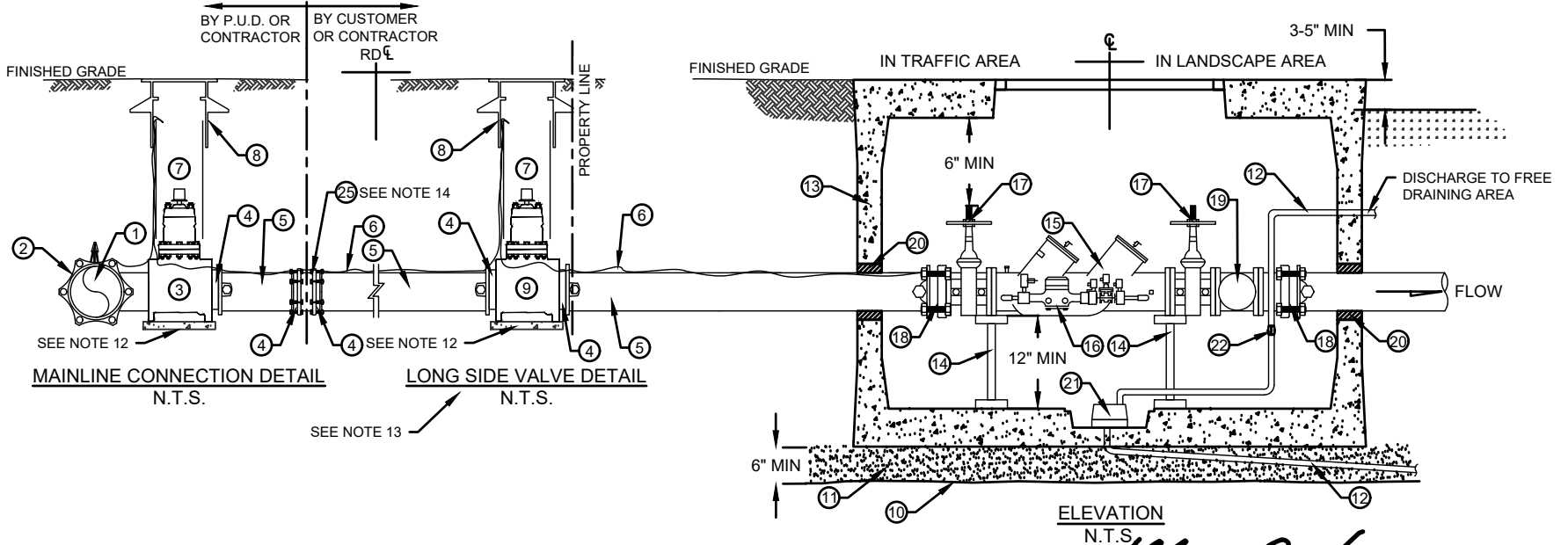


BILL OF MATERIALS

NO.	NOMENCLATURE	REQ'D	NO.	NOMENCLATURE	REQ'D
1.	WATER MAIN		12.	GRAVITY DRAIN LINE OR SUMP PUMP DISCHARGE LINE	
2.	TEE, MAINLINE x (SIZED TO PIPE) OR STAINLESS STEEL TAPPING SLEEVE EQUIVALENT	1	13.	CONCRETE VAULT WITH ACCESS HATCH DOORS, H-20 LOADING	1
3.	VALVE, (SIZED TO PIPE) DUCTILE IRON, RESILIENT WEDGE, FLxMJ	1	14.	PIPE SUPPORT - RUST RESISTANT	2
4.	RETAINER GLAND (SIZED ACCORDINGLY) ROMAC GRIP RINGS	5	15.	DOUBLE CHECK DETECTOR ASSEMBLY	1
5.	PIPE (SIZED ACCORDINGLY) CL 50 DUCTILE IRON (FIELD CUT TO LENGTH)		16.	BYPASS METER & BYPASS DCVA	1
6.	WIRE, #10 SOLID COPPER, BLUE COATED, EXTEND TO TOP OF LADDER ^{a b}		17.	ISOLATION VALVE, FLxFL	2
7.	CASING, 6" PVC SEWER PIPE	2	18.	RESTRAINED FLANGE COUPLING ADAPTER	2
8.	VALVE BOX, CAST IRON E J PRODUCT NO. 33170040a01 (SEE PUD DETAIL)	2	19.	FIRE DEPARTMENT CONNECTION PIPING	
9.	VALVE, (SIZED TO PIPE) DUCTILE IRON, RESILIENT WEDGE, MJxMJ	1	20.	LINK SEAL (TYP.) OR NON SHRINK GROUT	
10.	GEOTECTILE SEPARATION FABRIC		21.	GRAVITY DRAIN OR SUMP & PUMP	1
11.	6" COMPACTED CLASS B FOUNDATION MATERIAL (WSDOT SPEC 9-03.12(1)b)		22.	INLINE CHECK VALVE	1
			23.	CHECK VALVE	1
			24.	OSHA APPROVED LADDER (BILCO LADDER-0UP SAFETY POST) ^{a b}	1
			25.	DUCTILE IRON SLEEVE (SIZED TO PIPE), MJ	1

^a OR EQUIVALENT APPROVED BY THE DISTRICT

^b LOCATION OF LADDER TO BE APPROVED BY DISTRICT REP



PUD NO. 1 OF SKAGIT COUNTY ENGINEERING MANAGER

APPROVED ON: MAY 23 , 2024



**STANDARD INSTALLATION OF
FIRE SERVICE**

SCALE: N.T.S.
DATE: 2/23/22
REVISED: 5/23/24
DRAWN BY: JLB
APPROVED BY: MCH

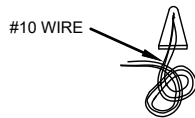
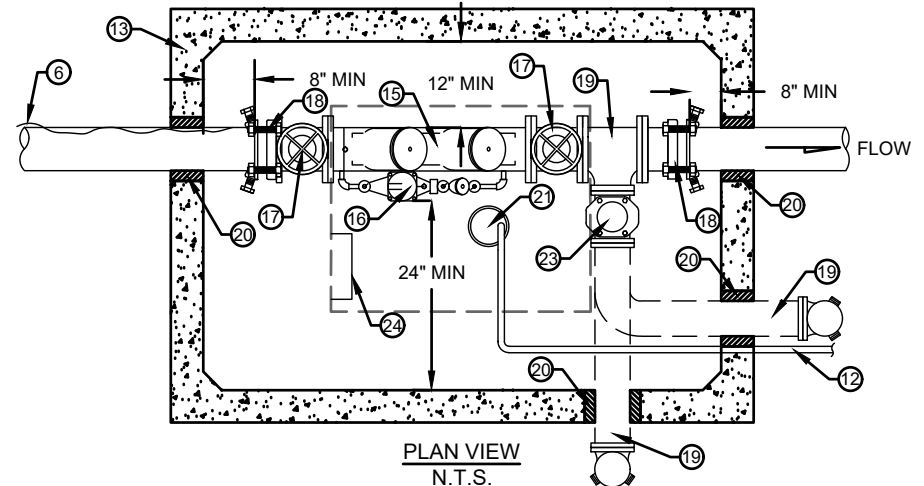
STANDARD

WFS-1a

NOTES:

1. BACKFLOW ASSEMBLY MUST BE SELECTED FROM THE CURRENT WASHINGTON STATE APPROVED LIST OF ASSEMBLIES AND INSTALLED IN THE MANNER WHICH IT IS APPROVED. NO MODIFICATION TO ASSEMBLY IS ALLOWED.
2. THE DCDA IS TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISTRICT'S SERVICE CONNECTION, FINAL LOCATION TO BE APPROVED BY THE DISTRICT.
3. HATCH LID DRAIN CHANNEL TO DRAIN TO DAYLIGHT.
4. ENGINEER RESPONSIBLE TO ENSURE ADEQUATE BALLAST IS PROVIDED TO PREVENT FLOATING OF VAULT.
5. SUMP PUMP SHALL BE WIRED PER WASHINGTON STATE ELECTRICAL CODE AND ELECTRICAL PERMIT REQUIRED. THE DISCHARGE PIPE SHALL BE CONNECTED TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE OR DISCHARGE TO DAYLIGHT AND DOWNSTREAM.
6. BRASS PLUGS TO BE INSTALLED IN THE TEST COCKS, TEST COCKS MUST BE INSTALLED FACING UP OR TO ONE SIDE.
7. DISTRICT TO SUPPLY AND INSTALL BADGER RECORD-ALL BY-PASS METER.
8. CUSTOMER RESPONSIBLE FOR COST TO INSTALL BADGER RECORD-ALL BY-PASS METER AND THE MONTHLY CHARGE FOR THE SIZE OF SERVICE/DCDA.
9. INSTALLATION TO BE INSPECTED BY THE DISTRICT INSPECTOR. IF INSTALLATION DOES NOT MEET DISTRICT REQUIREMENTS, CORRECTIONS MUST BE COMPLETED BEFORE CUSTOMER MAY BEGIN OR CONTINUE WATER USAGE.
10. OWNER RESPONSIBLE FOR INITIAL (UPON INSTALLATION) AND SUBSEQUENT ANNUAL TESTS. MUST BE PERFORMED BY A WASHINGTON STATE CERTIFIED BACKFLOW ASSEMBLY TESTER.(LIST AVAILABLE UPON REQUEST)
11. THE DISTRICT REQUIRES COPIES OF ALL TEST(S) OF REQUIRED BACKFLOW PREVENTION ASSEMBLIES BEFORE WATER USAGE MAY BEGIN OR CONTINUE.
12. CONCRETE BLOCK OR EQUIVALENT UNDER VALVE IS TO KEEP VALVE FACE VERTICAL DURING INSTALLATION.
13. IF MAINLINE IS ON THE SAME SIDE OF THE ROAD AS THE DCDA, "LONG SIDE VALVE" IS NOT NEEDED.
14. DISTRICT WILL TAP EXISTING WATER MAIN, INSTALL GATE VALVE AT TAP, AND CONNECT TO FIRE SERVICE LINE WITH A DUCTILE IRON SLEEVE.
15. POINT OF DISTRICT OWNERSHIP SHALL END AT THE GATE VALVE CLOSEST TO VAULT AND PRIOR TO PIPELINE ENTERING VAULT.
16. NO SERVICE LINES OR OTHER CONNECTIONS ARE ALLOWED ON THE PRIVATE PIPELINE BETWEEN THE DISTRICT POINT OF OWNERSHIP AND THE VAULT.
17. RESTRAIN ALL JOINTS FROM POINT OF CONNECTION TO THE VAULT.

RECOMMENDED VAULT SIZES		
DCDA SIZE	OLD CASTLE VAULT NO.	DOOR MODEL NO.
4"	676-WA	676-1-T-332P
6"	687-WA	687-T-2-332P
8"	5106-LA	5106-3-T-2-332P
10"	5106-LA	5106-3-T-2-322P



MAINLINE WIRE CONNECTION DETAIL
N.T.S.

NOTE: ALL THREE WIRES ARE TO BE TIED TOGETHER IN AN OVERHAND KNOT APPROXIMATELY 6" FROM WIRE NUT. BARE 5/8" OF WIRES. CONNECT WITH #62325 KING WATERPROOF WIRE CONNECTOR.^a

[Signature]
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