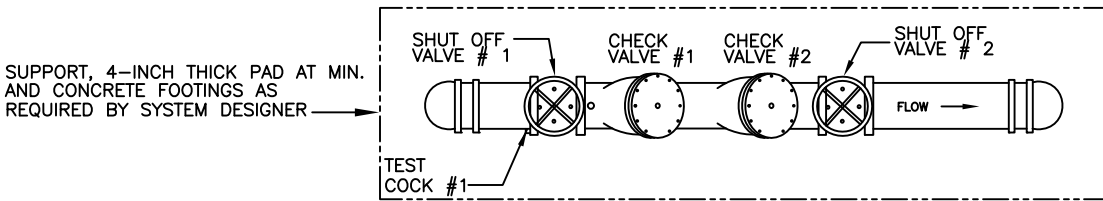
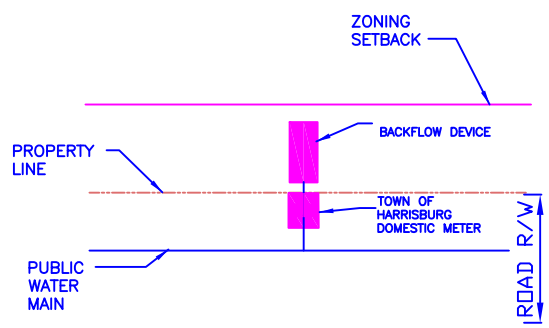


ELEVATION
N.T.S.



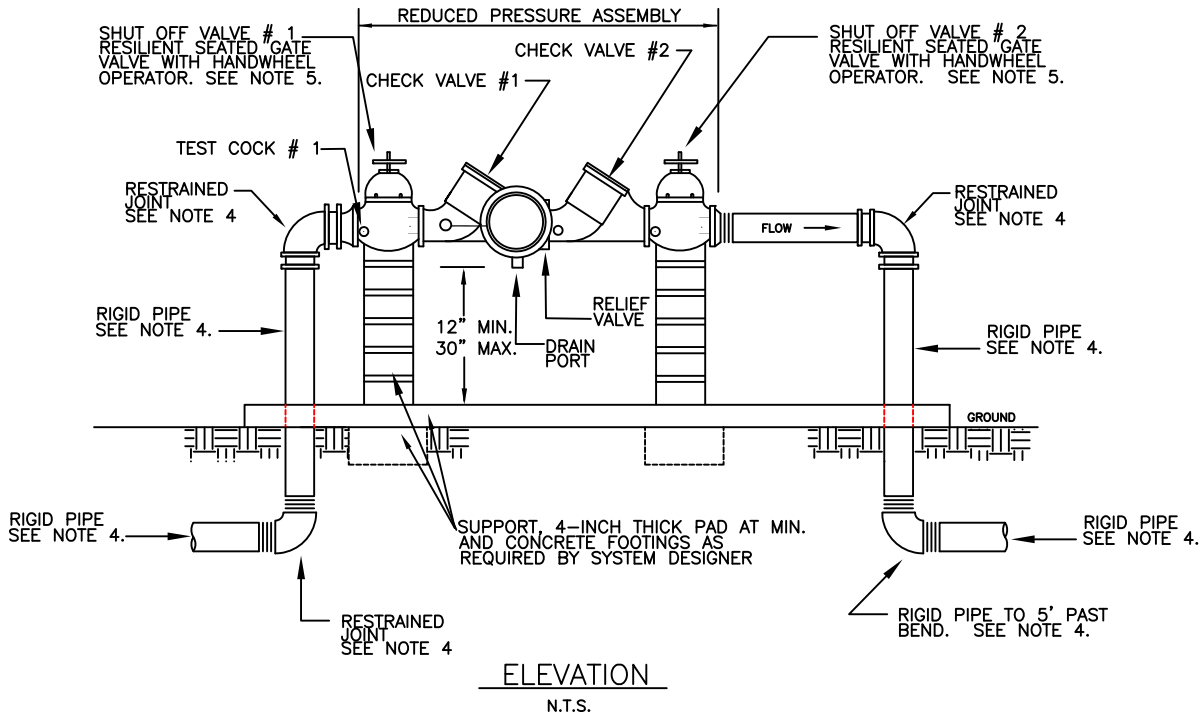
PLAN
N.T.S.

- NOTES:
1. ABOVE GROUND DOUBLE CHECK VALVE ASEMBLIES (DCVA) MUST CONFORM TO CITY OF CONCORD SPECIFICATIONS.
 2. 6" - 10" RP SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S)
 3. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE AS SPECIFIED IN CITY OF CONCORD SPECIFICATIONS. HEATED ENCLOSURES ARE RECOMMENDED FOR THE ABOVE GROUND BACKFLOW ASSEMBLY.
 4. 2 1/2" TO 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE WITH MEGA LUG RESTRAINTS OR APPROVED EQUAL.
 5. THE CITY OF CONCORD APPROVED 2 1/2" - 10" DCVA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
 6. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.



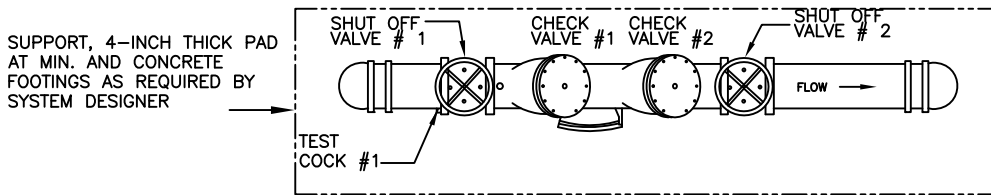
TYPICAL LOCATION REQUIREMENT
N.T.S.

TOWN OF HARRISBURG		PUBLIC WORKS DEPARTMENT		STANDARD DETAIL BACKFLOW PREVENTION	
				ABOVE GROUND 2 1/2 INCH TO 10 INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR DOMESTIC SERVICES	
No.	Date	By	REVISION		
Drawn By:	Checked By:	Approved By:	Date	Sht	of
DKS			11/94	1	1



ELEVATION

N.T.S.

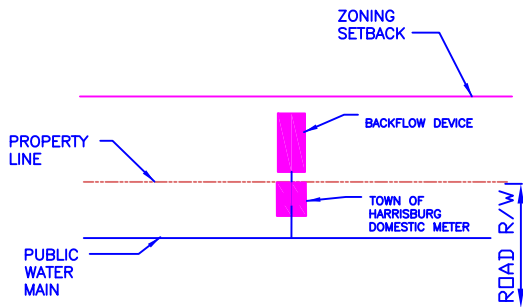


PLAN

N.T.S.

NOTES:

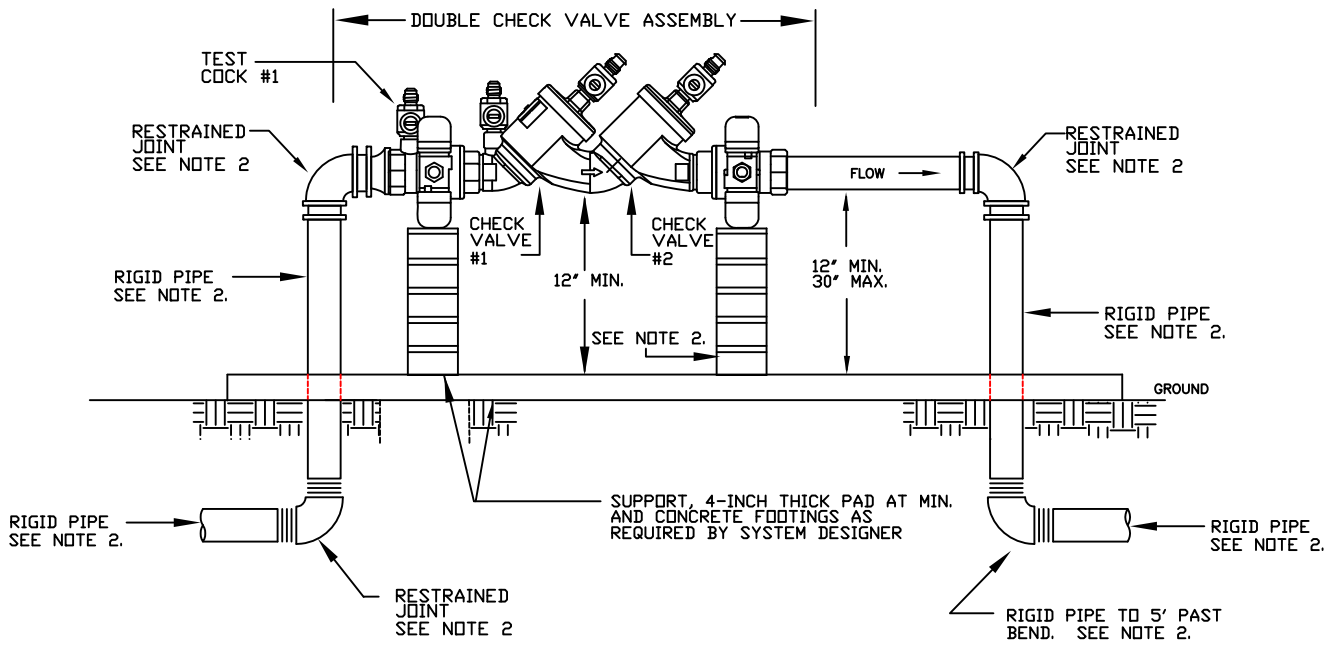
1. REDUCED PRESSURE ASEMBLIES (RP) MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
2. 6" - 10" RP SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) SUPPORT PEDESTALS(S) SHALL NOT BLOCK RELIEF VALVE OR DRAIN PORT.
3. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE AS SPECIFIED IN TOWN OF HARRISBURG SPECIFICATIONS. HEATED ENCLOSURES ARE RECOMMENDED FOR THE ABOVE GROUND BACKFLOW ASSEMBLY.
4. 2 1/2" TO 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE WITH MEGA LUG RESTRAINTS OR APPROVED EQUAL.
5. THE TOWN OF HARRISBURG APPROVED 2 1/2" - 10" RP INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
6. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.



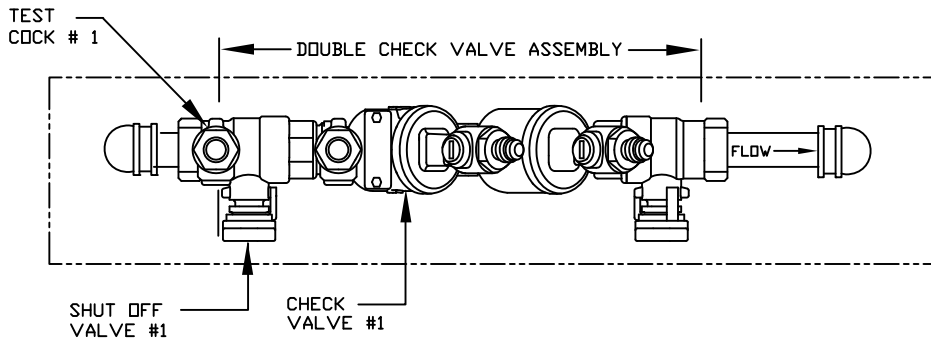
TYPICAL LOCATION REQUIREMENT

N.T.S.

TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		ABOVE GROUND 2 1/2 INCH TO 10 INCH REDUCED PRESSURE ASSEMBLY (RP) FOR DOMESTIC SERVICES	
No.	Date	By	REVISION
Drawn By:	Checked By:	Approved By:	Date
DKS			8/09
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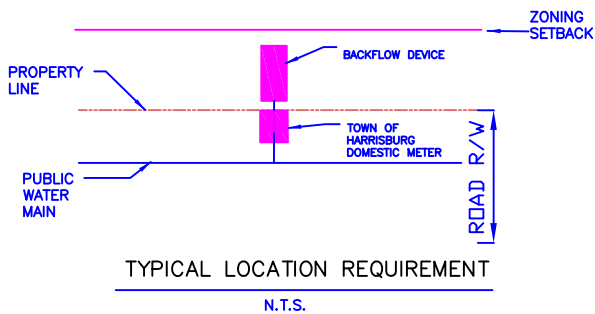
ELEVATION
N.T.S.



PLAN
N.T.S.

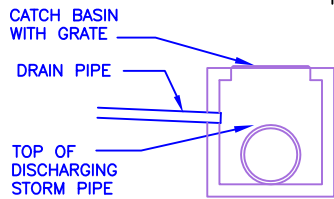
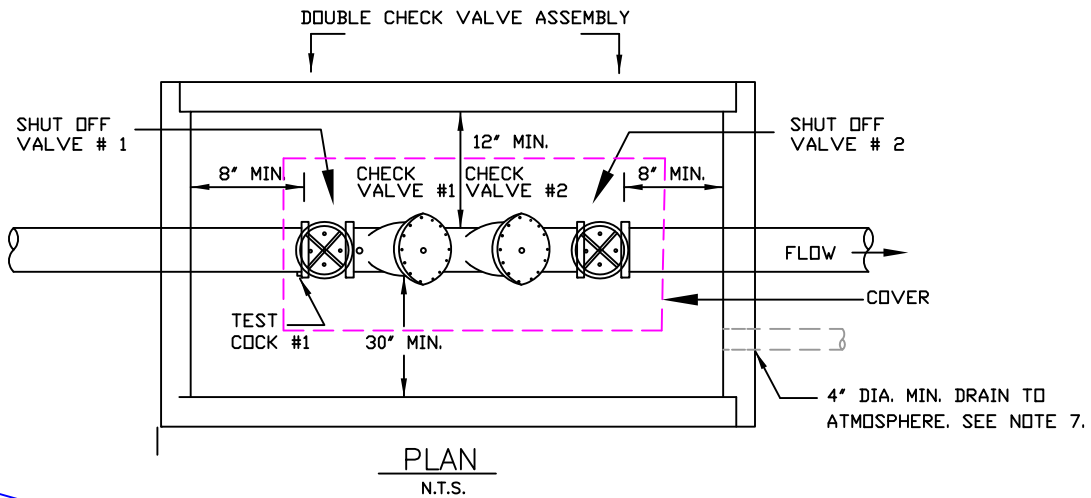
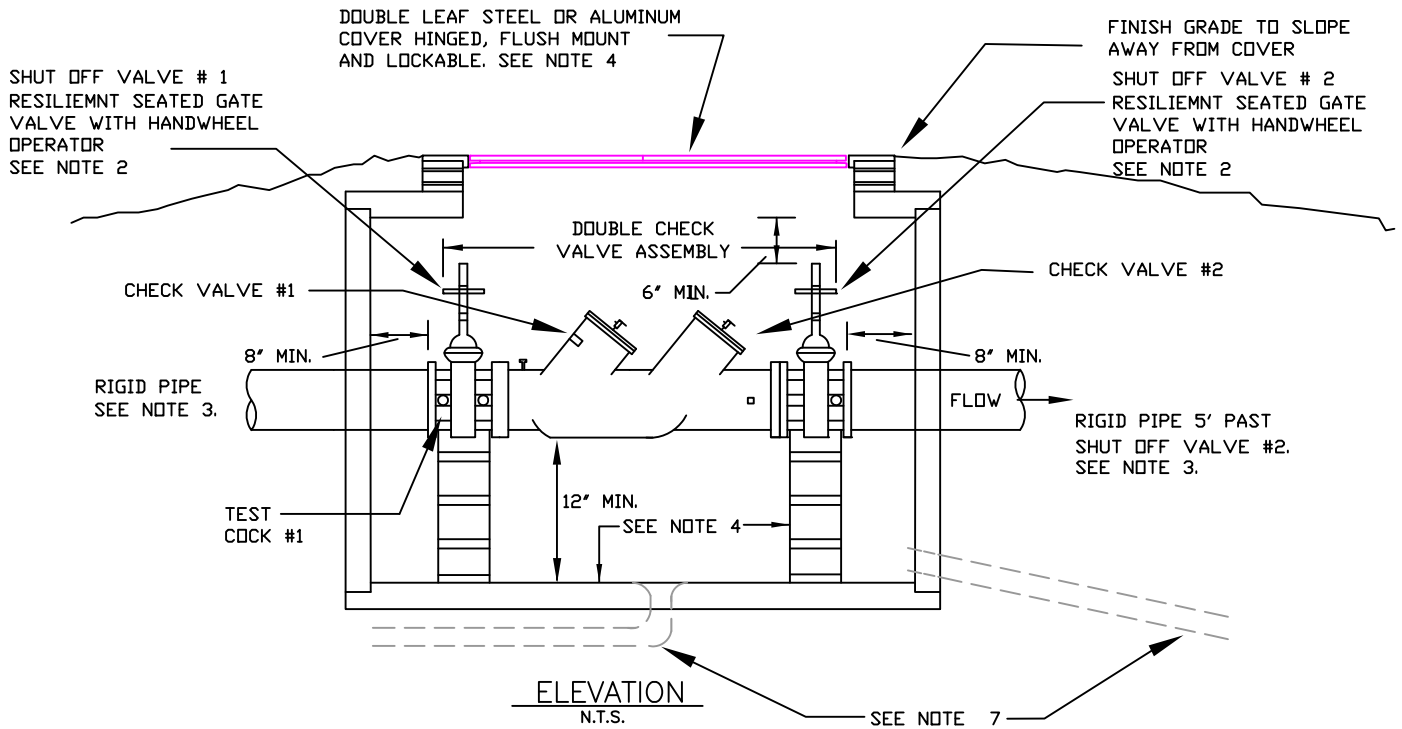
NOTES:

1. DOUBLE CHECK VALVE ASSEMBLY MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS AND BE AN APPROVED MODEL.
2. RIGID PIPE, 3/4" TO 2" BRASS, K-COPPER, OR GALVANIZED PIPE.
3. TOWN OF HARRISBURG APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 4" CLEARANCE SHALL BE WITH VALVE OPEN.
4. DCVA SHALL BE CONCRETE PAD MOUNTED AND SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED.
5. THE OUTDOOR PROTECTIVE ENCLOSURE AND FITTINGS SHALL CONFORM WITH AND BE INSTALLED IN ACCORDANCE WITH THE TOWN OF HARRISBURG BACKFLOW SPECIFICATIONS AND THE MANUFACTURE'S SPECIFICATIONS. AN HEATED ENCLOSURE IS RECOMMENDED.
6. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY. ALL TEST COCKS INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION

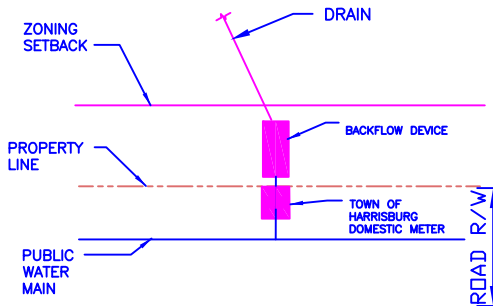


TYPICAL LOCATION REQUIREMENT
N.T.S.

TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		ABOVE GROUND 3/4 INCH TO 2 INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA)	
No.	Date	By	REVISION
Drawn By: DKS	Checked By:	Approved By:	Date 10/09
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			of 1



DRAIN ALTERNATIVE:
 TIE INTO CATCH BASIN OR STORMWATER MANHOLE PER DETAIL SHOWN ABOVE. NO TIE IN TO STORMWATER PIPE WILL BE ACCEPTED.
 N.T.S.



TYPICAL LOCATION REQUIREMENT
 N.T.S.

NOTES:

- DCVA'S MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
- TOWN OF HARRISBURG APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 6" OF CLEARANCE SHALL BE PROVIDED WITH THE VALVE OPEN.
- RIGID PIPE WITH 2½" TO 3" BRASS, K-COPPER, OR GALVANIZED PIPE. 4" TO 10" DIP.
- Vault, doors or covers and support assembly shall be designed by owner as required. Vault doors must flush mount and accommodate backflow assembly removal. 6"-10" DCVA shall be supported with adequate support pedestal(s).
- TEST COCK #1 shall be upstream of shut off valve #1 and is part of the assembly.
- IF DRAINAGE CANNOT BE PROVIDED TO FREE ATMOSPHERE OR STORM DRAINAGE, THE DDCVA SHALL BE INSTALLED ABOVE GROUND.
- DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. MUST DRAIN BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE. DRAINAGE MAY BE PROVIDED AS SHOWN OR AS FLOOR DRAIN.

TOWN OF HARRISBURG		PUBLIC WORKS DEPARTMENT		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT					
BELOW GROUND 2½ INCH TO 10 INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR DOMESTIC SERVICES					
No.	Date	By	REVISION		
Drawn By:	Checked By:	Approved By:	Date	Sht	of
DKS			10/09	1	1

DOUBLE LEAF STEEL OR ALUMINUM COVER HINGED AND LOCKABLE SEE NOTE 4

DOUBLE CHECK VALVE ASSEMBLY

FINISH GRADE TO SLOPE AWAY FROM COVER

TEST COCK #1

1/4" TURN FULL PORT BRONZE BALL SHUT OFF VALVE # 2

1/4" TURN FULL PORT BRONZE BALL SHUT OFF VALVE # 1

CHECK VALVE #1

CHECK VALVE #2

FLOW →

4" MIN

12" MIN.

SEE NOTE 7

ELEVATION
N.T.S.

TEST COCK # 1

DOUBLE CHECK VALVE ASSEMBLY

FLOW →

PIPE MATERIAL AS SPECIFIED BY TOWN OF HARRISBURG STANDARD SPECIFICATION

CHECK VALVE #1

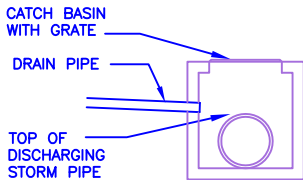
SHUT OFF VALVE #1

12" MIN.

8" MIN.

COVER

PLAN
N.T.S.



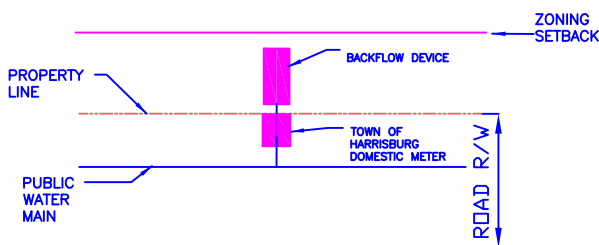
DRAIN ALTERNATIVE:

TIE INTO CATCH BASIN OR STORMWATER MANHOLE PER DETAIL SHOWN ABOVE. NO TIE IN TO STORMWATER PIPE WILL BE ACCEPTED.

N.T.S.

NOTES:

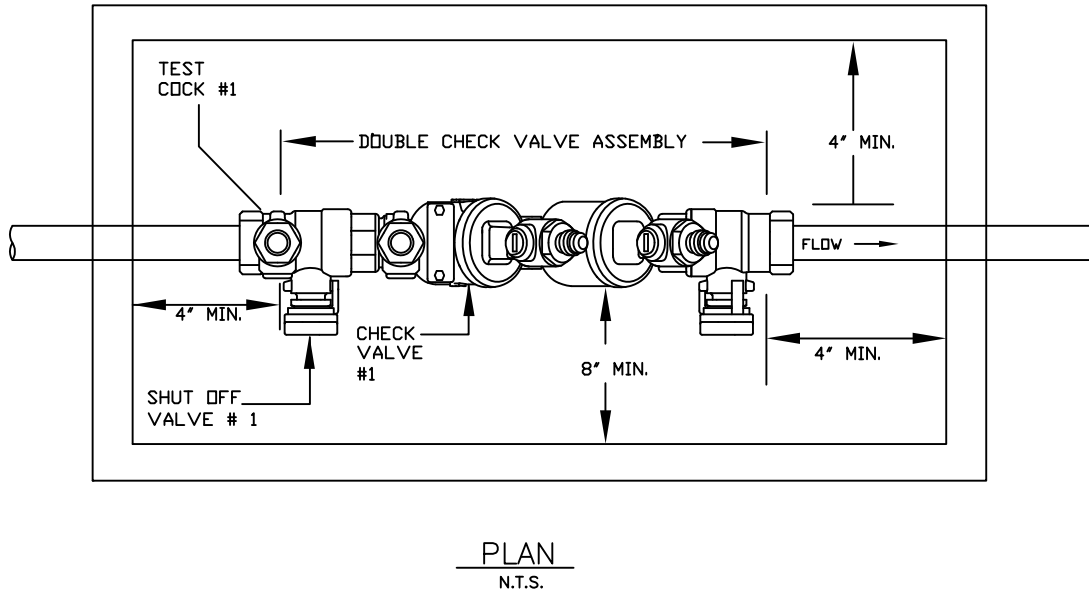
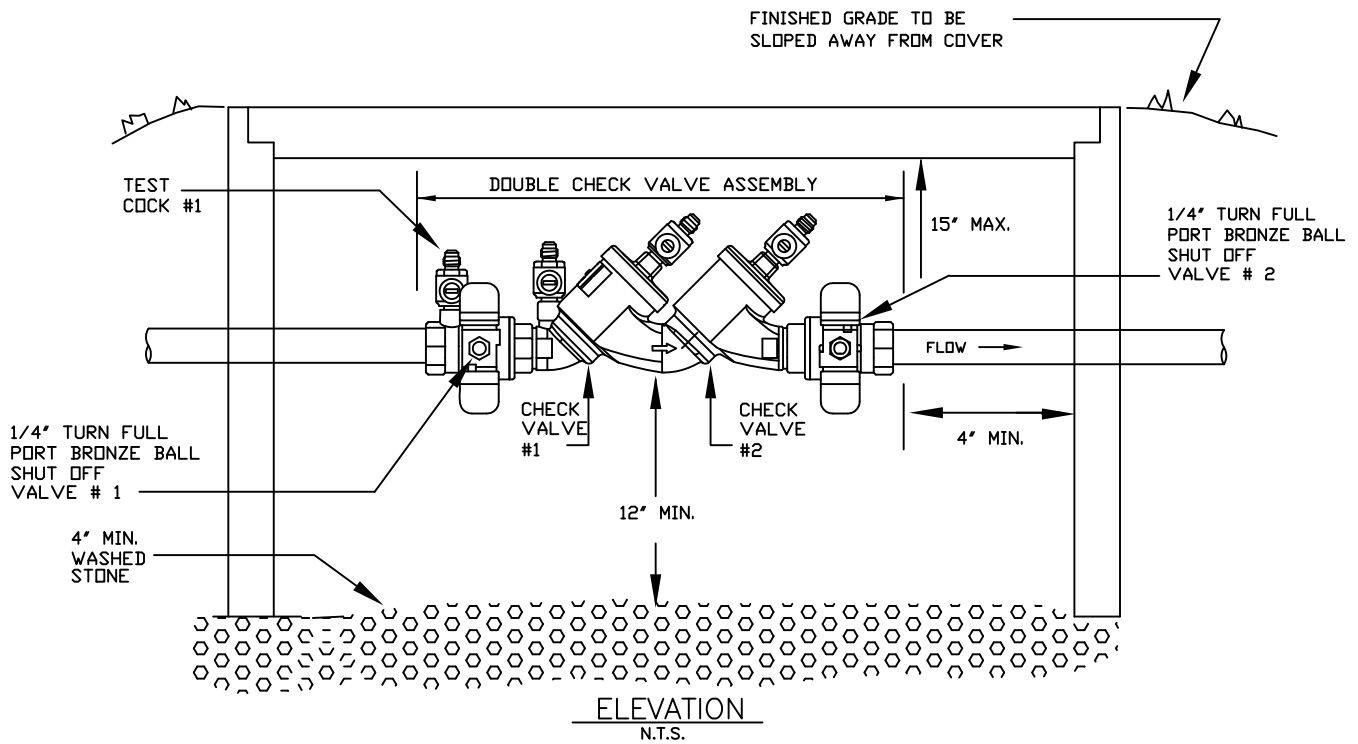
1. DOUBLE CHECK VALVE ASSEMBLY MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS AND BE AN APPROVED MODEL.
2. TOWN OF HARRISBURG APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 4" OF CLEARANCE SHALL BE PROVIDED WITH VALVE OPEN.
3. DCVA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED.
4. WATER-TIGHT VAULT, DOORS OR COVERS AND SUPPORT ASSEMBLY SHALL BE DESIGNED BY OWNER AS REQUIRED. VAULT DOORS MUST FLUSH MOUNT AND ACCOMMODATE BACKFLOW ASSEMBLY REMOVAL AND VALVE ACCESS.
5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY. ALL TEST COCKS INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION.
6. DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. MUST DRAIN BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE. DRAINAGE MAY BE PROVIDED AS SHOWN OR AS FLOOR DRAIN. IF DRAINAGE CANNOT BE PROVIDED TO FREE ATMOSPHERE OR STORM DRAINAGE, THE DCVA'S SHALL BE INSTALLED ABOVE GROUND.



TYPICAL LOCATION REQUIREMENT

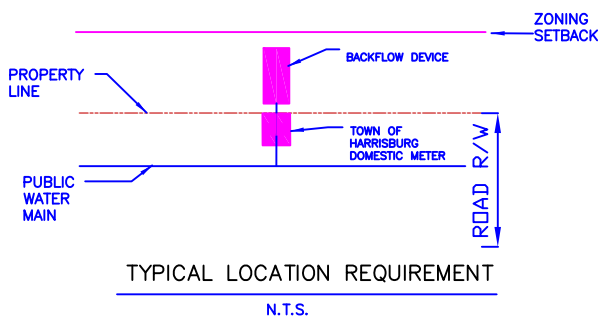
N.T.S.

TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		BELOW GROUND 2-INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA)	
No.	Date	By	REVISION
Drawn By:	Checked By:	Approved By:	Date
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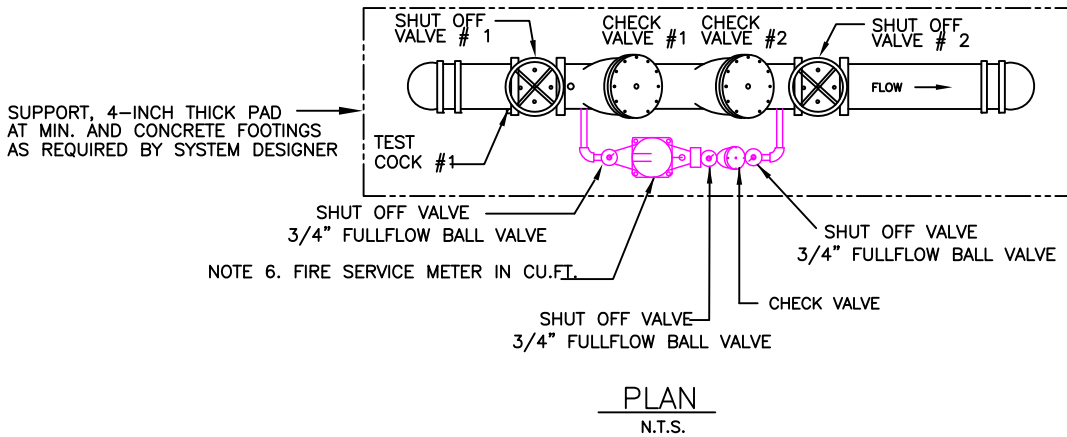
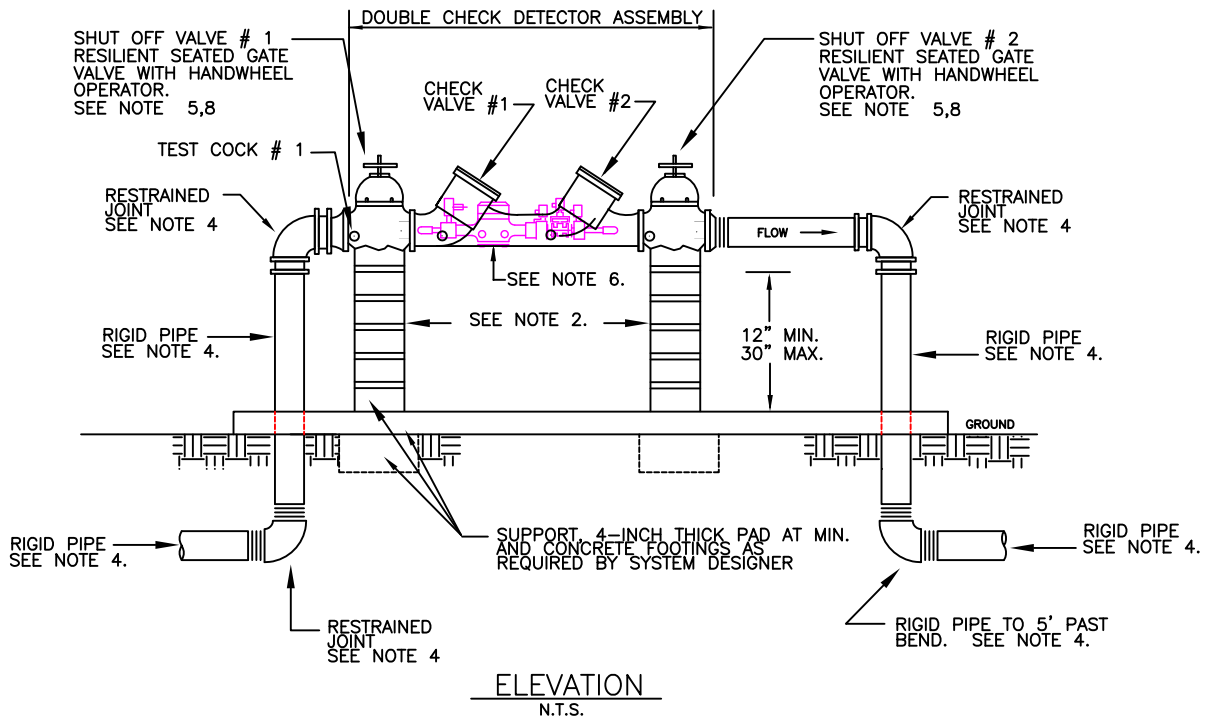


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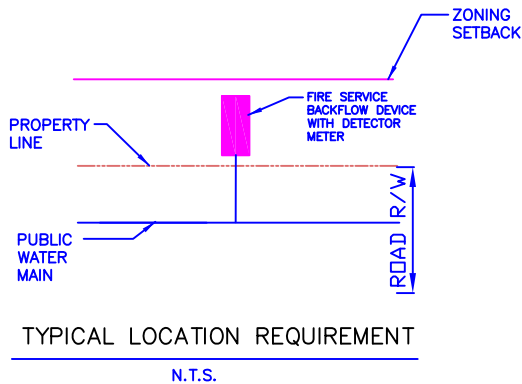
1. DOUBLE CHECK VALVE ASSEMBLY MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS AND BE AN APPROVED MODEL.
2. TOWN OF HARRISBURG APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 4" OF CLEARANCE SHALL BE PROVIDED WITH VALVE OPEN.
3. DCVA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED.
4. VAULT, DOORS OR COVERS AND SUPPORT ASSEMBLY SHALL BE DESIGNED BY OWNER AS REQUIRED. VAULT DOORS MUST FLUSH MOUNT AND ACCOMMODATE BACKFLOW ASSEMBLY REMOVAL AND VALVE ACCESS.
5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY. ALL TEST COCKS INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION



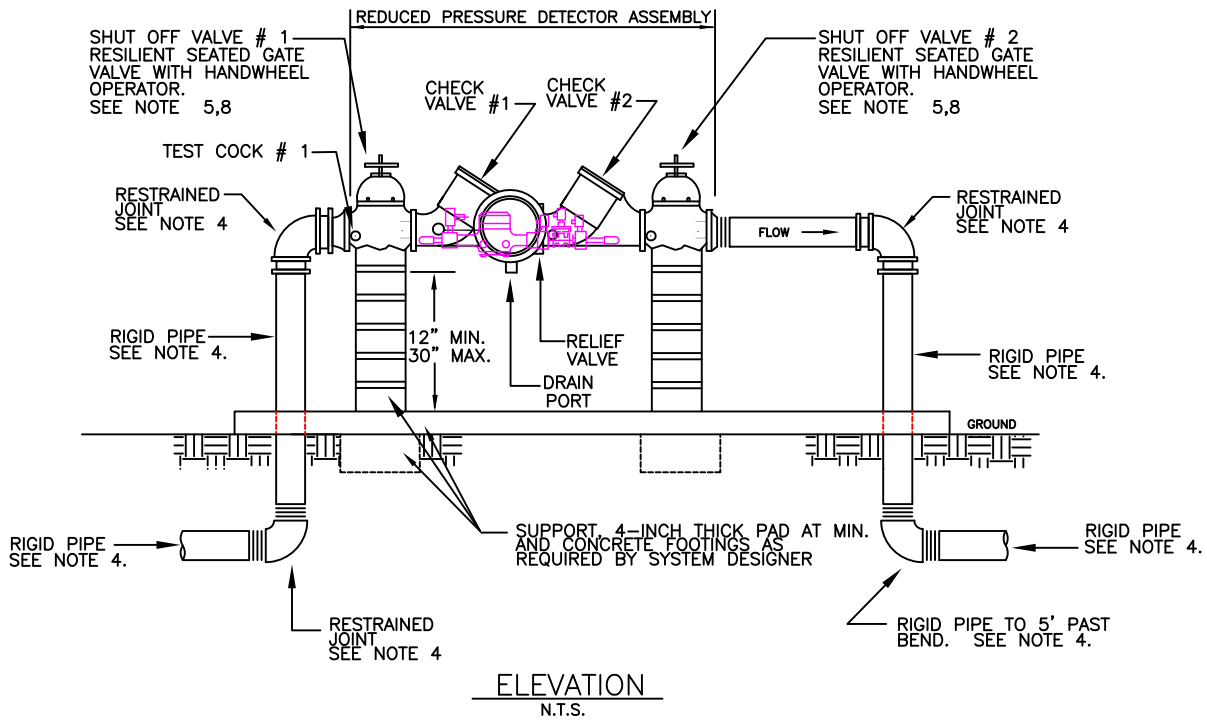
TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		BELOW GROUND 3/4 INCH TO 1 1/2 INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA)	
No.	Date	By	REVISION
Drawn By:	Checked By:	Approved By:	Date
DKS			10/09
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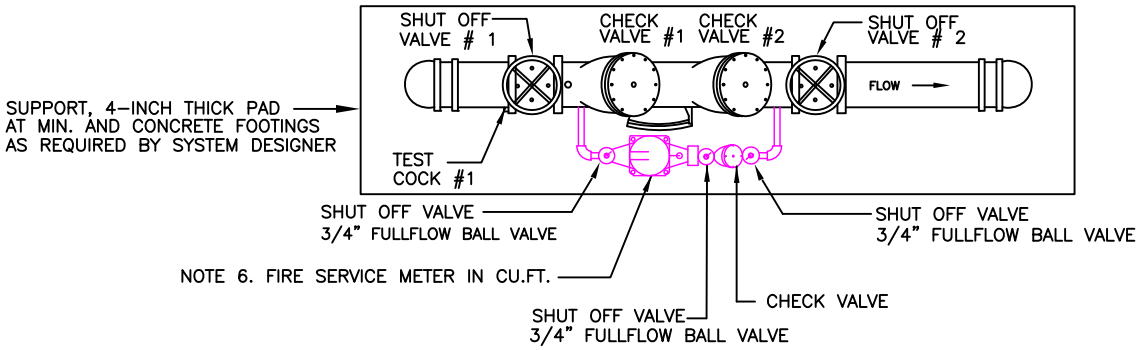
- NOTES:
1. ABOVE GROUND DOUBLE CHECK DETECTOR ASSEMBLIES (DCDA) MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
 2. 4" - 10" DCDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S).
 3. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE AS SPECIFIED IN TOWN OF HARRISBURG SPECIFICATIONS. HEATED ENCLOSURES ARE REQUIRED FOR THE ABOVE GROUND BACKFLOW ASSEMBLY.
 4. 2 1/2" TO 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE WITH MEGA LUG RESTRAINTS OR APPROVED EQUAL.
 5. THE TOWN OF HARRISBURG APPROVED 2 1/2" - 10" DCDA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
 6. FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE A TOWN OF HARRISBURG APPROVED MODEL AND MANUFACTURER WITH A TOWN OF HARRISBURG APPROVED RADIO READ DETECTOR METER
 7. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
 8. FIRE LINE SERVICES SHALL HAVE OUTSIDE STEM AND YOKE (OS & Y) HANDWHEEL OPERATORS



TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		ABOVE GROUND 2 1/2 INCH TO 10 INCH DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIRE SERVICES	
No.	Date	By	REVISION
Drawn By:	Checked By:	Approved By:	Date
DKS			10/09
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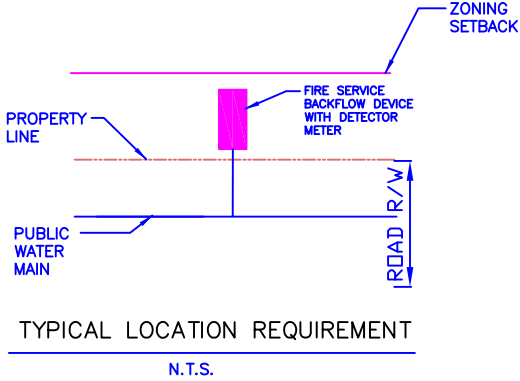


ELEVATION
N.T.S.

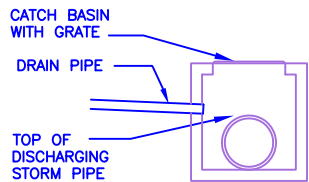
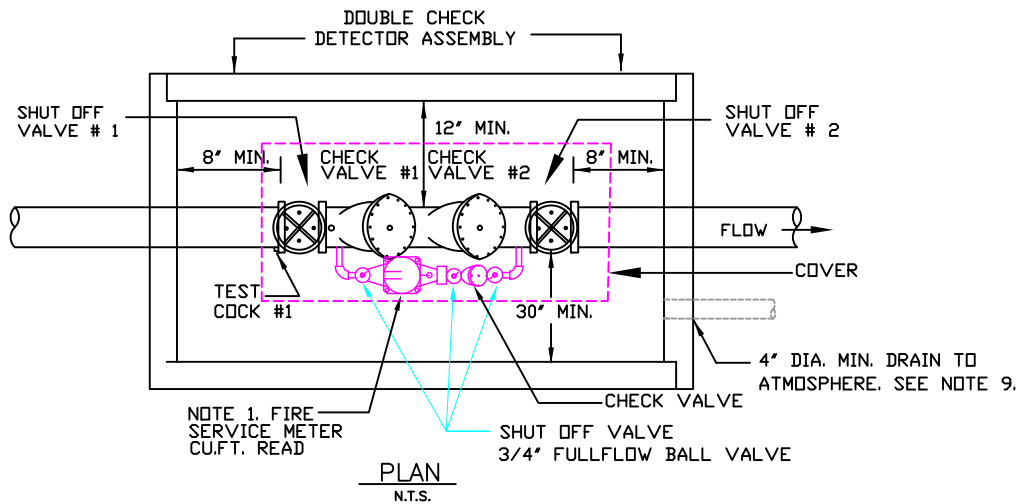
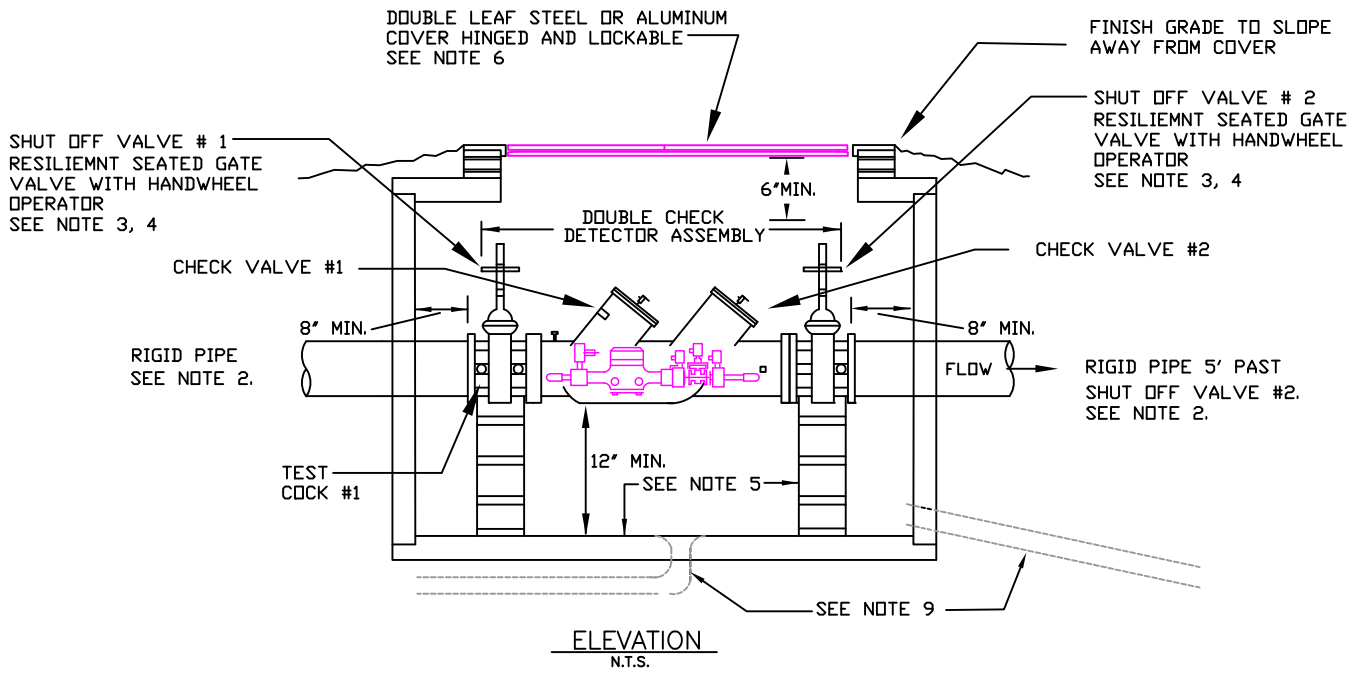


PLAN
N.T.S.

- NOTES:
1. ABOVE GROUND REDUCED PRESSURE DETECTOR ASSEMBLIES (RPDA) MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
 2. 4" - 10" RPDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S). SUPPORT PEDESTAL(S) SHALL NOT BLOCK RELIEF VALVE OR DRAIN PORT.
 3. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE AS SPECIFIED IN TOWN OF HARRISBURG SPECIFICATIONS. HEATED ENCLOSURES ARE REQUIRED FOR THE ABOVE GROUND BACKFLOW ASSEMBLY.
 4. 2 1/2" TO 3" BRASS, K-COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE WITH MEGA LUG RESTRAINTS OR APPROVED EQUAL.
 5. THE TOWN OF HARRISBURG APPROVED 2 1/2" - 10" RPDA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
 6. FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE A CITY OF CONCORD APPROVED MODEL AND MANUFACTURER WITH A TOWN OF HARRISBURG APPROVED RADIO READ DETECTOR METER
 7. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
 8. FIRE LINE SERVICES SHALL HAVE OUTSIDE STEM AND YOKE (OS & Y) HANDWHEEL OPERATORS



TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		ABOVE GROUND 2 1/2 INCH TO 10 INCH REDUCE PRESSURE DETECTOR ASSEMBLY (RPDA) FOR FIRE SERVICES	
No.	Date	By	REVISION
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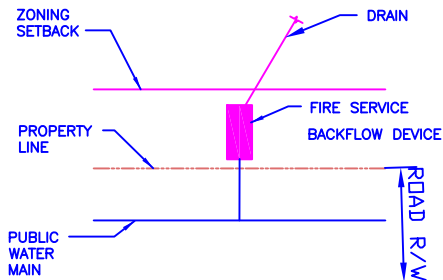
DRAIN ALTERNATIVE:

TIE INTO CATCH BASIN OR STORMWATER MANHOLE PER DETAIL SHOWN ABOVE. NO TIE IN TO STORMWATER PIPE WILL BE ACCEPTED.

N.T.S.

NOTES:

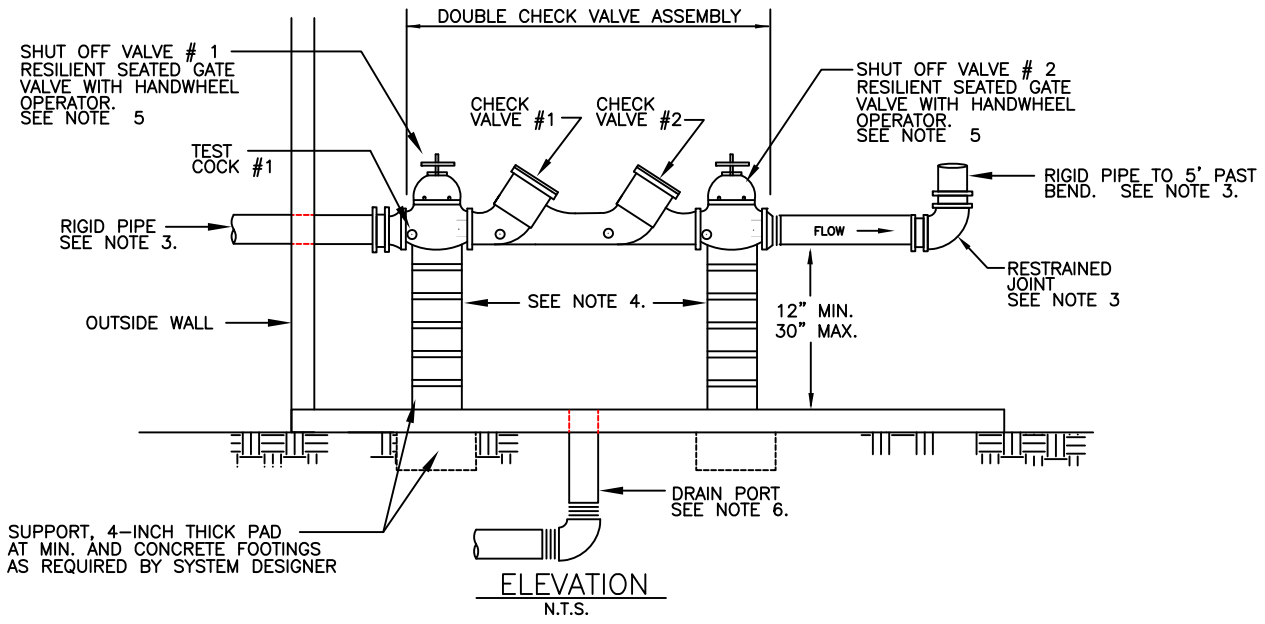
1. THE DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIRE SERVICE(S) MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS AND BE AN APPROVED MODEL. INTERNAL FIRE SYSTEM MUST NOT INCORPORATE A BOOSTER PUMP; OTHERWISE A FIRE SERVICE RPDA MUST BE INSTALLED. DCDA BACKFLOW MUST HAVE AN APPROVED BYPASS ASSEMBLY WITH A RADIO READ METER WITH READING IN CU.FT., SHUT-OFF VALVES AND CHECK VALVE.
2. RIGID PIPE. 2½" TO 3" BRASS, K-COPPER, OR GALVANIZED PIPE. 4" TO 10" DIP
3. TOWN OF HARRISBURG APPROVED DCDA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 6" OF CLEARANCE SHALL BE PROVIDED WITH THE VALVE OPEN.
4. FIRE LINE INSTALLATIONS SHALL HAVE OUTSIDE STEM AND YOKE (OS & Y) HANDWHEEL OPERATORS.
5. 4" TO 10" DCDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S).
6. VAULT, DOORS OR COVERS AND SUPPORT ASSEMBLY SHALL BE DESIGNED BY OWNER AS REQUIRED. VAULT DOORS MUST FLUSH MOUNT AND ACCOMODATE BACKFLOW ASSEMBLY REMOVAL AND VALVE ACCESS.
7. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY.
8. IF DRAINAGE CANNOT BE PROVIDED TO FREE ATMOSPHERE OR STORM DRAINAGE, THE DCDA SHALL BE INSTALLED ABOVE GROUND.
9. DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. MUST DRAIN BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE. DRAINAGE MAY BE PROVIDED AS SHOWN OR AS FLOOR DRAIN.



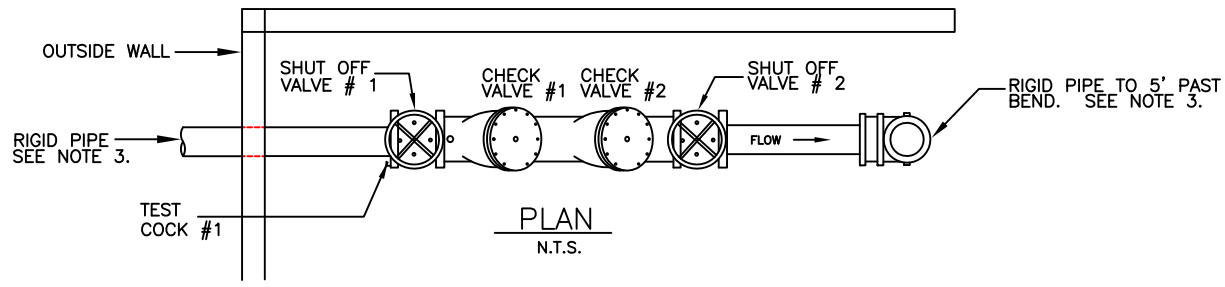
TYPICAL LOCATION REQUIREMENT

N.T.S.

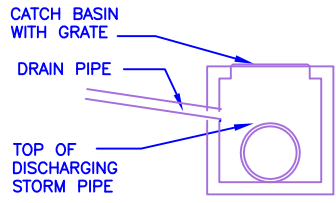
TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION	
PUBLIC WORKS DEPARTMENT		BELOW GROUND 2½ INCH TO 10 INCH DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIRE SERVICES	
No.	Date	By	REVISION
Drawn By:	Checked By:	Approved By:	Date
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ELEVATION
N.T.S.



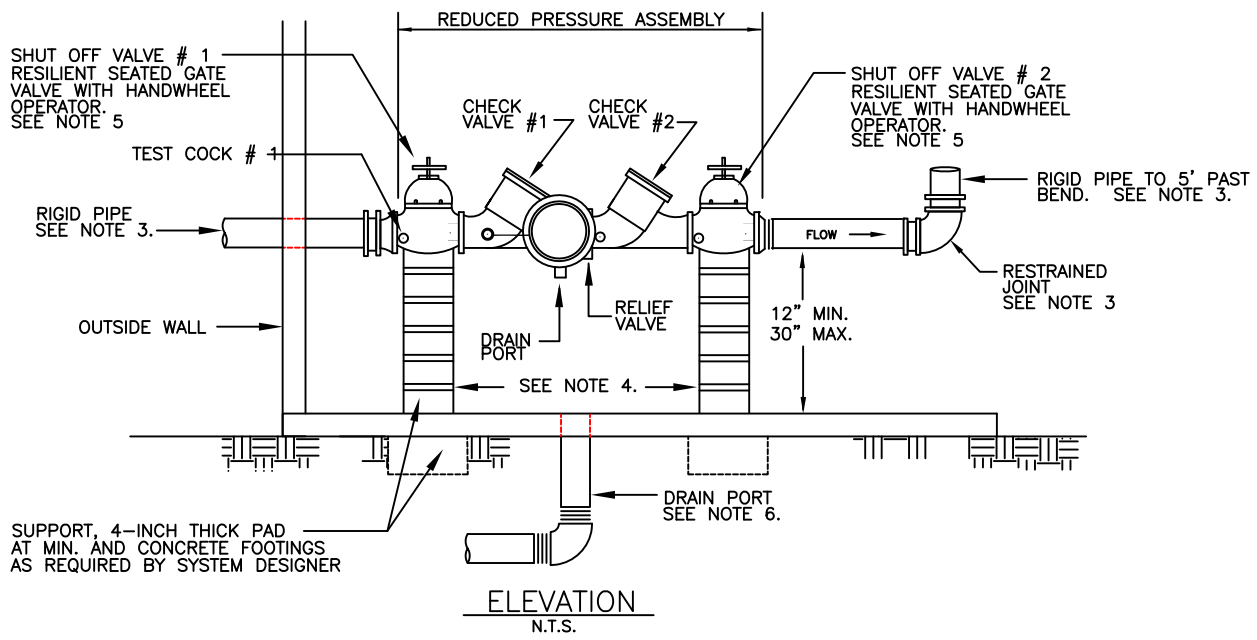
PLAN
N.T.S.



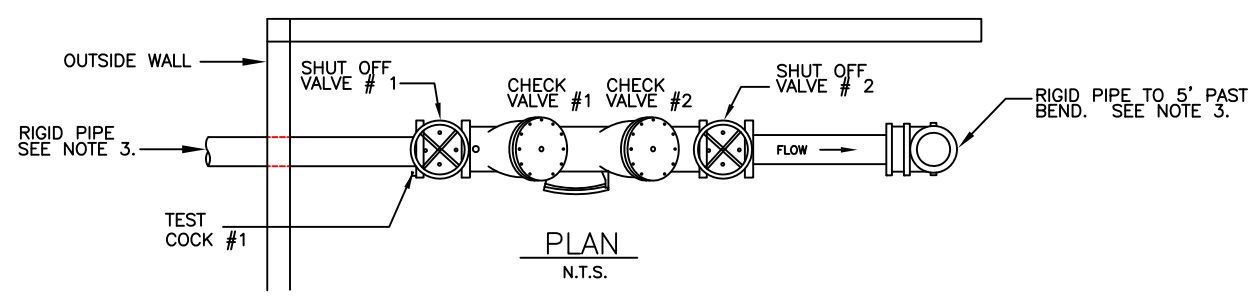
DRAIN ALTERNATIVE:
TIE INTO CATCH BASIN OR STORMWATER MANHOLE PER DETAIL SHOWN ABOVE. NO TIE IN TO STORMWATER PIPE WILL BE ACCEPTED.
N.T.S.

- NOTES:
1. INDOOR INSTALLATION SHALL BE PERMITTED ON A CASE BY CASE BASES WITH THE BACKFLOW ADMINISTRATOR'S APPROVAL. DCVA'S MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
 2. TOWN OF HARRISBURG APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 6" OF CLEARANCE SHALL BE PROVIDED WITH THE VALVE OPEN.
 3. RIGID PIPE WITH 2½" TO 3" BRASS, K-COPPER, OR GALVANIZED PIPE. 4" TO 10" DIP.
 4. 3"-10" DCVA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S). SUPPORT PEDESTAL(S) SHALL NOT BLOCK DRAIN PORT.
 5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY.
 6. DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. DRAIN PORT CAN BE CONNECTED TO INDOOR FLOOR DRAINS AS PART OF THE INTERNAL PLUMBING OR CONVEYED BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE.

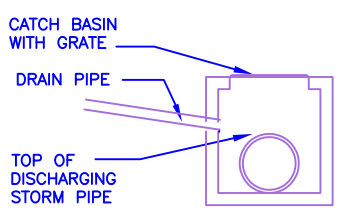
TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION			
PUBLIC WORKS DEPARTMENT		INDOOR 2½ INCH TO 10 INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR DOMESTIC SERVICES			
No.	Date	By	REVISION		
Drawn By:	Checked By:	Approved By:	Date	Sht	of
DKS			10/09	1	1



ELEVATION
N.T.S.



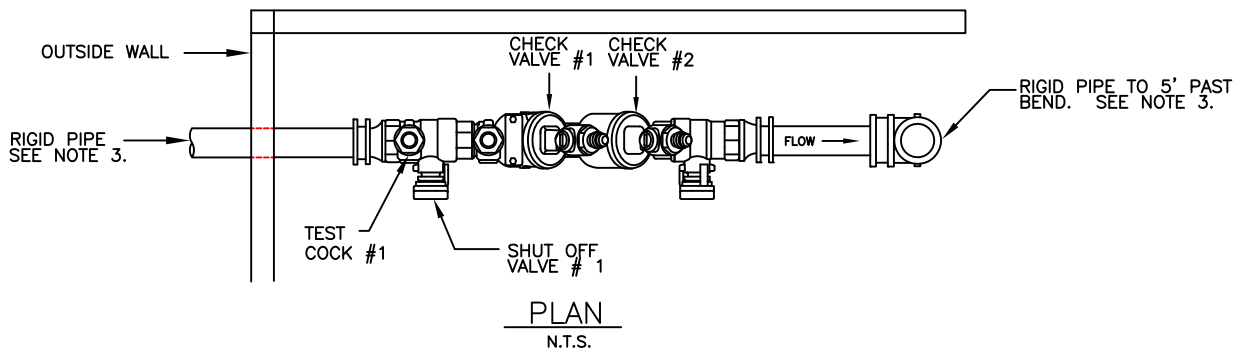
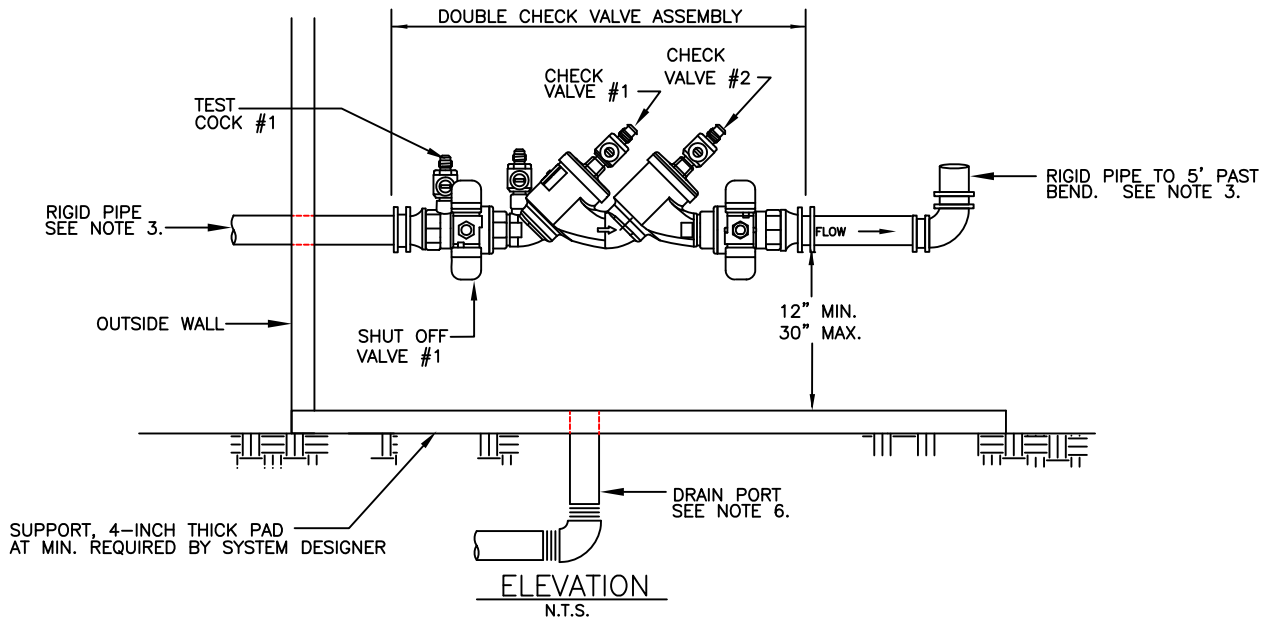
PLAN
N.T.S.



DRAIN ALTERNATIVE:
TIE INTO CATCH BASIN OR STORMWATER MANHOLE PER DETAIL SHOWN ABOVE. NO TIE IN TO STORMWATER PIPE WILL BE ACCEPTED.
N.T.S.

- NOTES:
1. INDOOR INSTALLATION SHALL BE PERMITTED ON A CASE BY CASE BASES WITH THE BACKFLOW ADMINISTRATOR'S APPROVAL. THE REDUCED PRESSURE BACKFLOW ASSEMBLY MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
 2. TOWN OF HARRISBURG APPROVED RP INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 6" OF CLEARANCE SHALL BE PROVIDED WITH THE VALVE OPEN.
 3. RIGID PIPE WITH 2½" TO 3" BRASS, K-COPPER, OR GALVANIZED PIPE. 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE MEGA LUG RESTRAINTS OR AN APPROVED EQUAL.
 4. 3"-10" RP SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S). SUPPORT PEDESTAL(S) SHALL NOT BLOCK DRAIN PORT.
 5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY.
 6. DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. DRAIN PORT CAN BE CONNECTED TO INDOOR FLOOR DRAINS AS PART OF THE INTERNAL PLUMBING OR CONVEYED BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE.

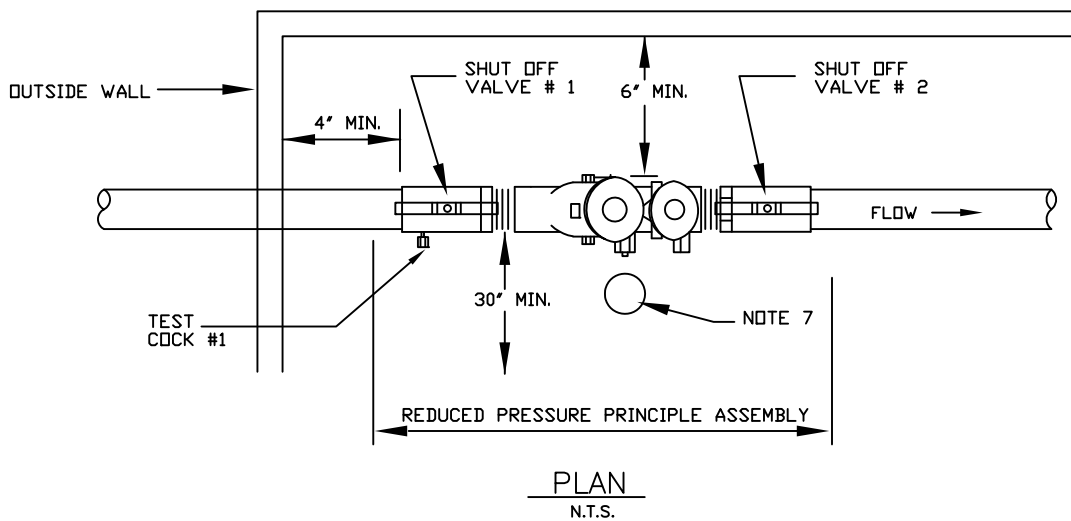
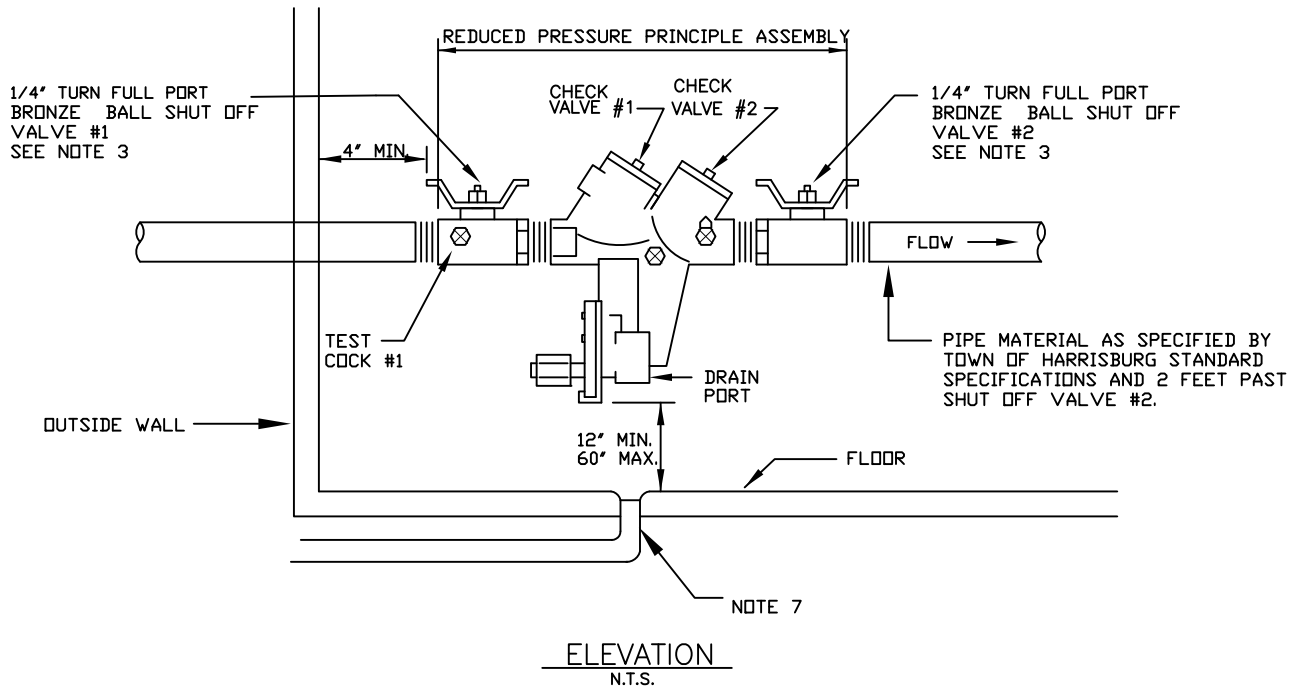
TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION			
		INDOOR 2½ INCH TO 10 INCH REDUCED PRESSURE ASSEMBLY (RP) FOR DOMESTIC SERVICES			
PUBLIC WORKS DEPARTMENT					
No.	Date	By	REVISION		
Drawn By:	Checked By:	Approved By:	Date	Sht	of
DKS			10/09	1	1



NOTES:

1. INDOOR INSTALLATION SHALL BE PERMITTED ON A CASE BY CASE BASES WITH THE BACKFLOW ADMINISTRATOR'S APPROVAL. DCVA'S MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
2. TOWN OF HARRISBURG APPROVED DCVA INCLUDES SHUT OFF VALVES #1 AND #2 AS PART OF THE UNIT. NO SUBSTITUTIONS SHALL BE PERMITTED. 6" OF CLEARANCE SHALL BE PROVIDED WITH THE VALVE OPEN.
3. RIGID PIPE WITH 3/4" TO 2" BRASS, K-COPPER, OR GALVANIZED PIPE.
4. DCVA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED.
5. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE ASSEMBLY.
6. DRAIN PORT TO BE SIZED IN ACCORDANCE WITH "DRAIN PORT TABLE" IN BACKFLOW MANUAL. DRAIN PORT CAN BE CONNECTED TO INDOOR FLOOR DRAINS AS PART OF THE INTERNAL PLUMBING OR CONVEYED BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE.

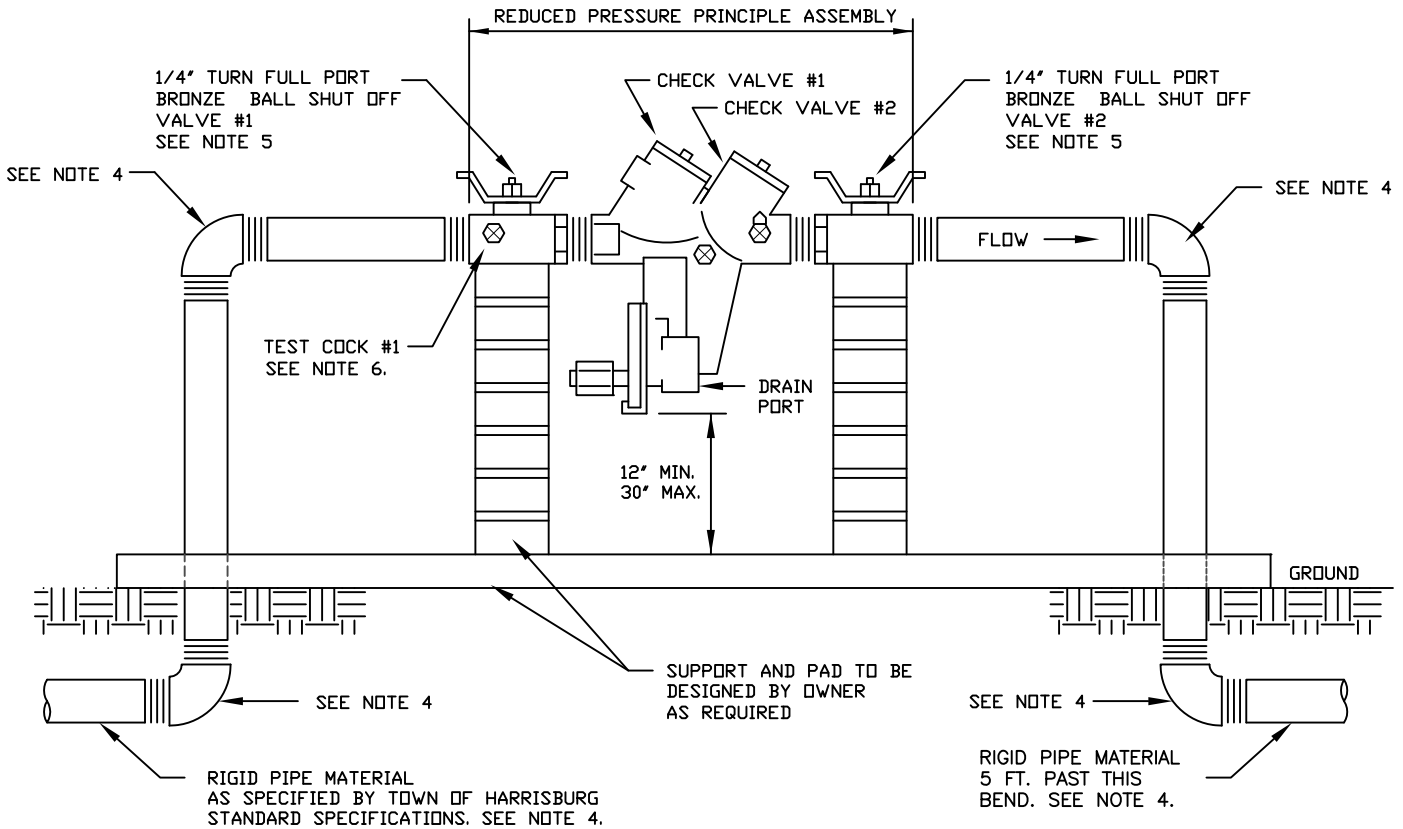
TOWN OF HARRISBURG PUBLIC WORKS DEPARTMENT		STANDARD DETAIL BACKFLOW PREVENTION			
		INDOOR 3/4 INCH TO 2 INCH DOUBLE CHECK VALVE ASSEMBLY (DCVA) FOR DOMESTIC SERVICES			
No.	Date	By	REVISION		
Drawn By:	Checked By:	Approved By:	Date	Sht	of
DKS			10/09	1	1



NOTES:

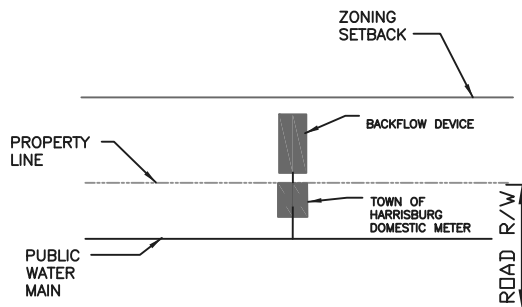
1. INDOOR INSTALLATION SHALL BE PERMITTED ON A CASE BY CASE BASES WHERE ADEQUATE SPACE FOR THE BACKFLOW PREVENTION ASSEMBLY IS NOT AVAILABLE OUTSIDE.
2. THE 3/4-INCH THRU 2-INCH RP MUST CONFORM TO TOWN OF HARRISBURG STANDARDS FOR BACKFLOW PREVENTION ASSEMBLIES.
3. TOWN OF HARRISBURG APPROVED 3/4-INCH THRU 2-INCH RP INCLUDES SHUT-OFF VALVES #1 AND #2 AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
4. RP SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S) AS NEEDED. SUPPORT PEDESTAL(S) SHALL NOT BLOCK DRAIN PORT.
5. AN AIR GAP DRAIN IS RECOMMENDED TO REDUCE SPLASHING OF MINOR DISCHARGE FROM THE RELIEF VALVE DRAIN PORT.
6. TEST COCK #1 SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY. ALL TEST COCKS MUST BE ON THE OUTSIDE OR TOP. ASSEMBLIES SHALL BE INSTALLED UPRIGHT AND IN THE HORIZONTAL POSITION.
7. DRAIN TO ATMOSPHERE OR INTERNAL PLUMBING. THE MINIMUM DRAIN SIZE SHALL BE ESTABLISHED BY THE BACKFLOW MANUAL TABLE 1 "DRAIN PORT REQUIREMENTS". DRAIN PORT CAN BE CONNECTED TO INDOOR FLOOR DRAINS AS PART OF THE INTERNAL PLUMBING OR CONVEYED BY GRAVITY TO ATMOSPHERE OR CONNECT TO STORM DRAINAGE.

TOWN OF HARRISBURG		STANDARD DETAIL BACKFLOW PREVENTION			
PUBLIC WORKS DEPARTMENT		INDOOR 3/4" INCH TO 2 INCH REDUCED PRESSURE ASSEMBLY (RP)			
No.	Date	By	REVISION		
Drawn By:	Checked By:	Approved By:	Date	Sht	of
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NOTES:

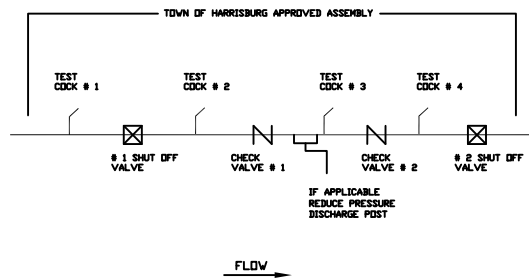
1. REDUCED PRESSURE ASSEMBLIES (RP) MUST CONFORM TO TOWN OF HARRISBURG SPECIFICATIONS.
2. A 4-INCH THICK CONCRETE PAD SHALL BE PROVIDED. SUPPORT PEDESTAL(S) SHALL BE PROVIDED AS NEEDED. SUPPORT PEDESTALS(S) SHALL NOT BLOCK RELIEF VALVE OR DRAIN PORT.
3. PROTECTIVE ENCLOSURE SHALL CONFORM WITH ASSE1060 AND SHALL BE IN ACCORDANCE TOWN OF HARRISBURG SPECIFICATIONS, ORDINANCE, AND BACKFLOW MANUAL.
4. RIGID PIPE AND FITTINGS SHALL BE 3/4" TO 2" BRASS, K-COPPER, OR GALVANIZED PIPE.
5. THE TOWN OF HARRISBURG APPROVED 3/4" TO 2" RP INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
6. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.



TYPICAL LOCATION REQUIREMENT

N.T.S.

TOWN OF HARRISBURG PUBLIC WORKS DEPARTMENT		STANDARD DETAIL BACKFLOW PREVENTION ABOVE GROUND 3/4" INCH TO 2 INCH REDUCED PRESSURE ASSEMBLY (RP)	
REVISION			
No.	Date	By	REVISION
Drawn By: RWD		Checked By:	Approved By:
		Date 12/16	Sht 1 of 1



TOWN OF HARRISBURG PUBLIC WORKS DEPARTMENT		STANDARD DETAIL BACKFLOW PREVENTION	
		TEST COCK LOCATION	
No.	Date	By	REVISION
Drawn By:	Checked By:	Approved By:	Date
DKS			10/09
			1 of 1