PIPE	TEES	90°	45°	30°	22 ½ °	11 1/4 °
4"	1.50	2.00	1.00			
6"	3.00	4.00	2.00	1.50	1.25	1.00
8"	4.00	5.25	3.00	2.75	2.75	2.75
10"	6.00	8.25	4.50	4.25	4.25	4.25
12"	8.50	12.00	6.50	6.25	6.25	6.25

FIGURES SHOWN ARE MIN. AREAS IN SQ. FT.

WATER MAIN THRUST BLOCKS

RESTRAINED JOINT TABLE				
PIPE DIAMETER	LENGTH OF PIPE W/ RESTRAINED JOINTS			
4" 6" 8" 10" 12"	24' 34' 45' 54' 64'			

- NOTES:

 1. IN FORMING THRUST BLOCKS, KEEP ALL CONCRETE OFF RETAINER GLANDS AND EXPOSED BOLTS, ECT.

 2. THRUST BLOCKS SHALL BEAR DIRECTLY ON UNDISTURBED OR THOROUGHLY COMPACTED SOIL.

 3. WHERE THRUST IS UPWARD, FITTINGS SHALL BE TIED OR ANCHORED TO THRUST BLOCKS.

FILE: CP-W-1.DWG

CENTRAL POINT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	W_1
CENTRAL PUBLIC WORKS DEPARTMENT	THRUST BLOCKS	APPROVED REVISED	DATE	DRAWING No.

(HORIZONTAL) (VERTICAL) BEARING AREA OF THRUST BLOCKS VOLUME OF THRUST IN SQUARE FEET BLOCK IN CUBIC YARDS 90° BEND PLUGGED TEE, WYE, PLUGGED **FITTING** STRADDLE 22-1/2* 22-1/2* DEAD END ON RUN BLOCK BEND BEND BEND BEND BEND BEND BEND AND HYDRANT CROSS A-1 A-2___ 4 1.0 1.6 1.4 1.9 1.4 1.0 ___ ___ ___ ___ 6 3.0 1.0 1.3 7.6 8 3.8 6.5 5.3 5.4 2.9 1.5 1.0 2.3 1.1 10 5.9 10.2 8.4 11.8 8.4 4.6 2.4 1.2 3.7 1.8 12 8.5 14.7 12.0 17.0 3.4 1.7 5.5 2.8 1.2 12.0 6.6 14 11.5 ___ 16.3 23.0 16.3 8.9 4.6 2.3 7.6 3.9 1.7 ___ 16 15.0 26.1 21.3 30.0 21.3 11.6 6.0 3.0 9.9 5.1 2.3 0.9 7.6 18 19.0 27.0 38.0 27.0 14.6 3.8 20 23.5 40.8 33.3 47.0 33.3 18.1 9.4 4.7 24 34.0 58.8 48.0 68.0 48.0 26.2 13.6 6.8

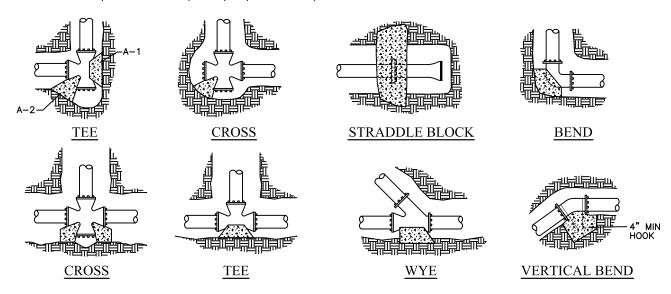
NOTES:

1. 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:

BEARING AREA = (TEST PRESSURE / 150) x (2000 / SOIL BEARING STRESS) x (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:

VOLUME = (TEST PRESSURE / 150) x (TABLE VALUE)



NOTES:

- CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
- ALL CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 930.00.00 - PORTLAND CEMENT CONCRETE (PCC)
- 3. INSTALL 8 MIL POLYETHYLENE MEMBRANE BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
- CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
- 5. TIE RODS SHALL BE DEFORMED GALVANIZED COLD ROLLED STEEL, 40000 PSI TENSILE STRENGTH.

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

CENTRAL POINT
PUBLIC WORKS DEPARTMENT

CITY OF
PUBLIC WORKS CONSTRUCTION

THRUST BLOCKING

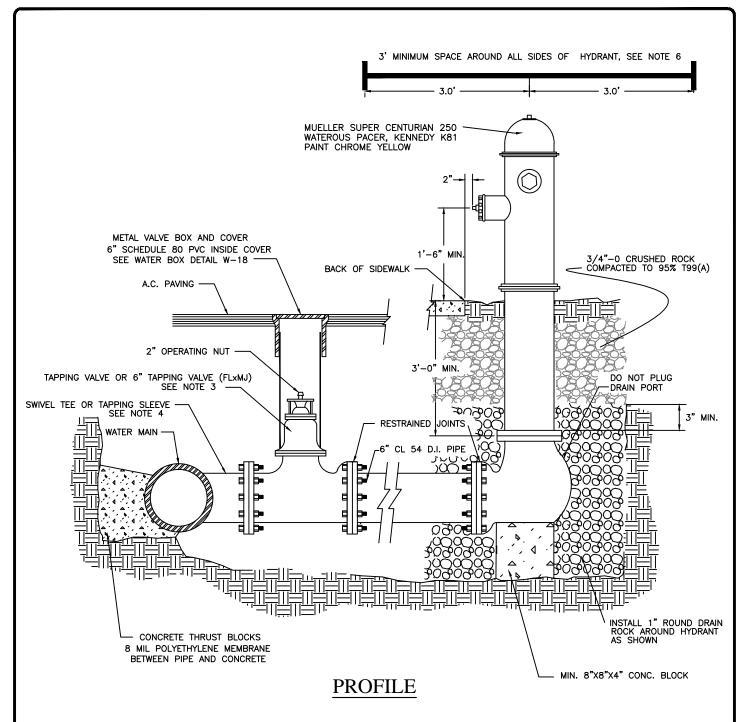
PUBLIC WORKS DEPARTMENT

PUBLIC WORKS DEPARTMENT

PUBLIC WORKS DEPARTMENT

THRUST BLOCKING

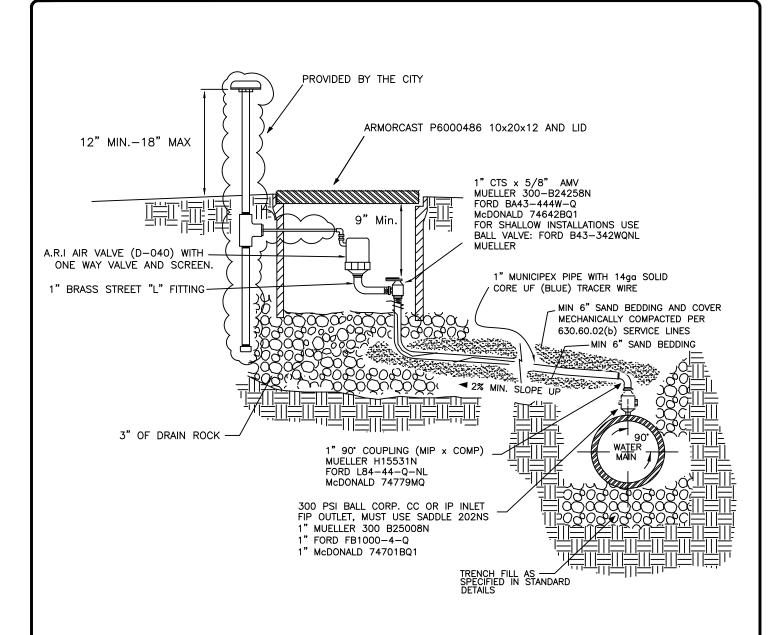
DRAWING NO.



NOTES:

- 1. A MIN. OF 3-FEET OF CLEAR SPACE SHALL BE MAINTAINED AT ALL TIMES AROUND HYDRANT INCLUDING PLANTER AREA.
- 2. AN OFFSET WILL BE REQUIRED TO USE A STANDARD 3'-6" BURY HYDRANT WHEN THE WATER MAIN HAS GREATER THAN 3-FEET OF COVER.
- 3. FOR WET TAP, USE FLANGE x MJ TAPPING VALVE. FOR DRY CONNECTIONS, USE MJxMJ GATE VALVE.
- 4. FOR WET TAP, USE TAPPING SLEEVE WITH FLANGE CONNECTION. FOR DRY CONNECTIONS, USE A MJ SWIVEL TEE.
- 5. THRUST BLOCK REQUIRED AT BACK OF FH IF JOINTS ARE NOT RESTRAINED
- 6. REQUIRED BY FIRE DIST. #3

			FILE: C	P-W-3.DWG
	CITY OF	UNIFORM STANDARDS FOR	REVISED DATE	
	ENTRAL POINT	PUBLIC WORKS CONSTRUCTION	2/05/2016	W-3
CENTRAL `	DELIVITORE I OTIVI	PIDE HAND AND	. ,	, ,,
POINT	PUBLIC WORKS DEPARTMENT	FIRE HYDRANT		DRAWING No.



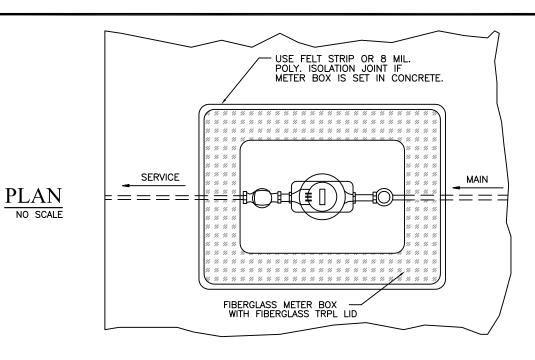
AIR RELIEF VALVE

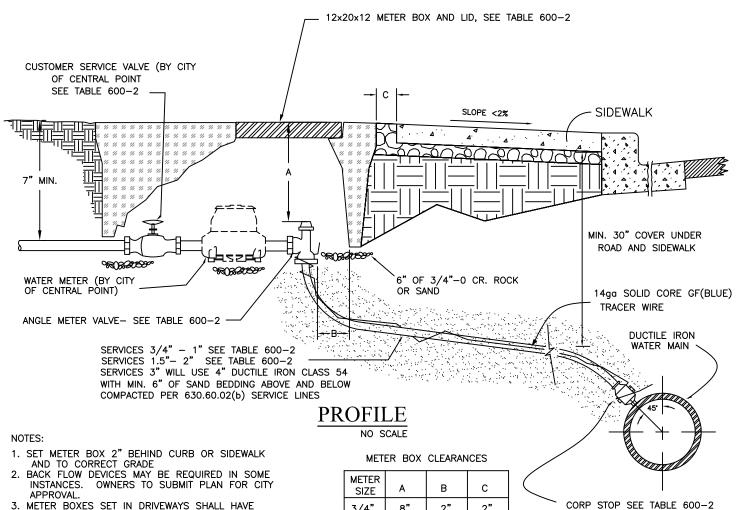
NOTES

- 1. TOP OF METER BOX SHALL BE FLUSH WITH FINISH GRADE. SURROUNDING AREA SHALL BE GRADED TO DRAIN AWAY FROM BOX
 2. PIPE AND VALVE SIZES SHALL BE SPECIFIED FOR EACH PROJECT BY THE ENGINEER.
 3. AIR—RELEASE AND VALVE ASSEMBLIES SHALL BE INSTALLED AT HIGH POINTS.
 4. 1" AIR RELIEF VALVE FOR WATER MAINS LESS THAN 30"
 2" AIR RELIEF VALVE FOR WATER MAINS GREATER THAN 30."
 5 MINICIPEX PIPE SHALL BE INSTALLED WITH 2% (MIN)

- 5. MUNICIPEX PIPE SHALL BE INSTALLED WITH 2% (MIN) GRADE RISING FROM CORP STOP TO ANGLE STOP.
- 6. PACKED JOINTS NOT ALLOWED ON CORP STOPS OR ANGLE STOPS.

FILE: CP-W-4.DWG UNIFORM STANDARDS CITY OF REVISED DATE PUBLIC WORKS CONSTRUCTION CENTRAL POINT W-4 10/28/2016 PUBLIC WORKS DEPARTMENT AIR RELIEF VALVE POINT DRAWING No





- 3. METER BOXES SET IN DRIVEWAYS SHALL HAVE TRAFFIC LIDS.
- CATHODIC PROTECTION REQUIRED WHEN SOIL PH OR CONDITIONS DICTATE, AS REQUIRED BY PUBLIC WORKS.
- 5. LIVE TAPS SHALL BE MADE BY CITY

Α	В	C
8"	2"	2"
8"	2"	2"
8"	3"	2"
8"	3"	2"
	8" 8"	8" 2" 8" 2" 8" 3"

CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT POINT

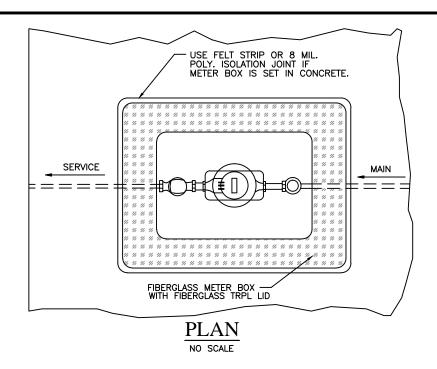
UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION

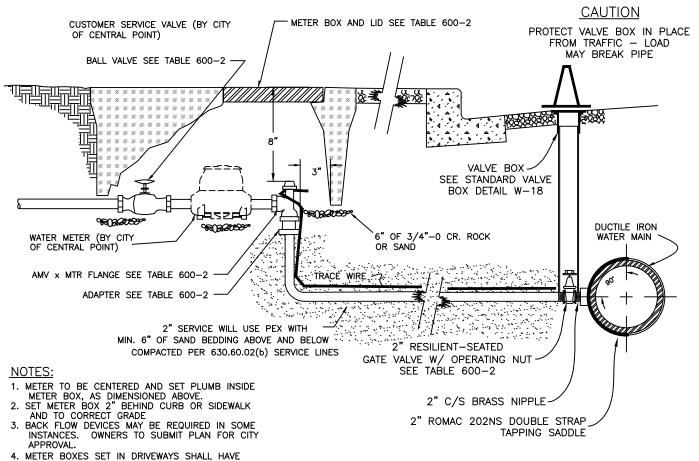
REVISED DATE 2/05/2016

W-5

FILE: CP-W-5.DWG

WATER SERVICE CONNECTION DETAIL

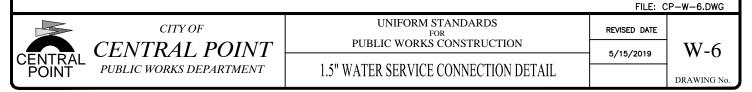


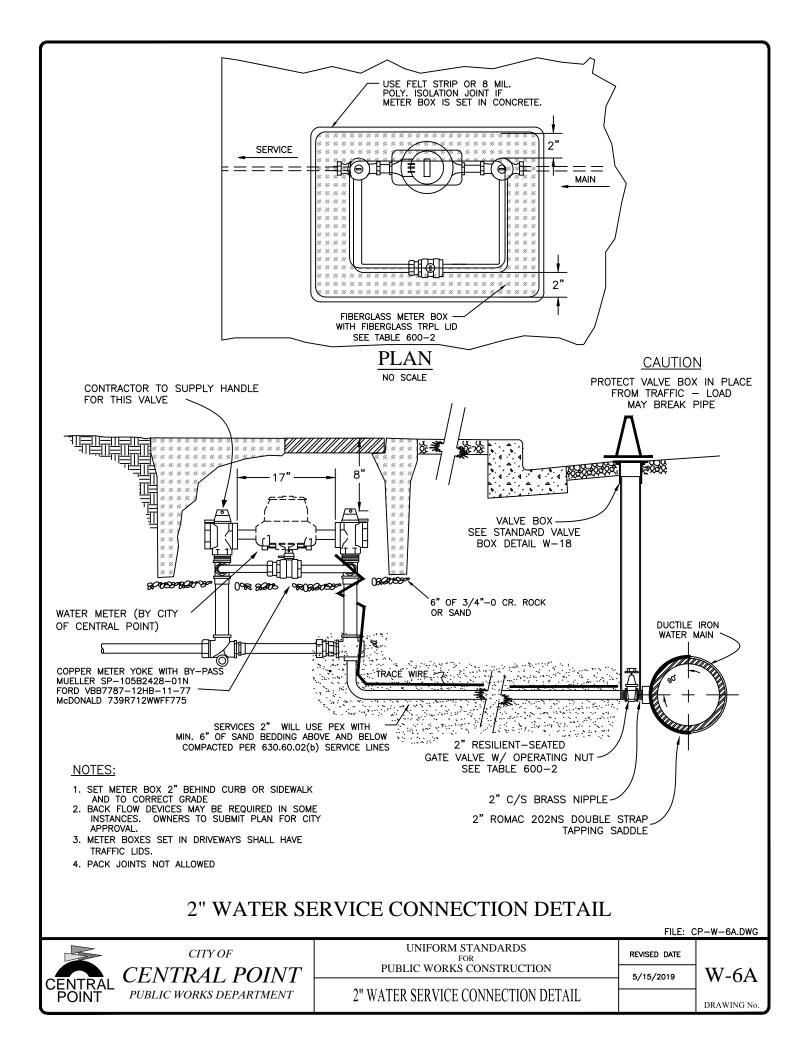


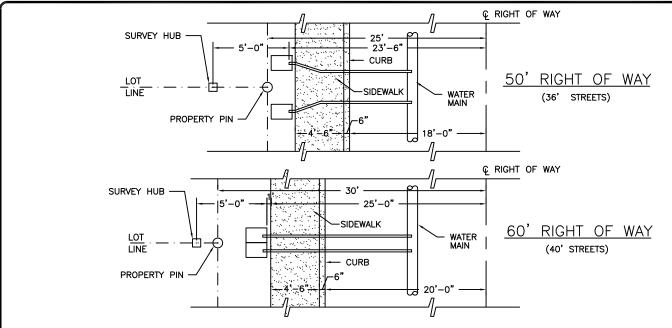
4.5" HALLED GERLINGE GOLDIEG

TRAFFIC LIDS.
5. PACK JOINTS NOT ALLOWED

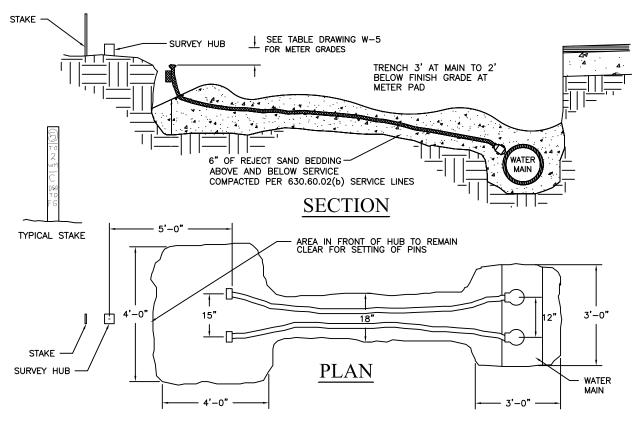
1.5" WATER SERVICE CONNECTION DETAIL







PLAN - WATER METER LOCATIONS



WATER METER TRENCH DETAIL

- NOTES:

 1. FOR RIGHT OF WAY AND STREET WIDTHS OTHER THAN THOSE SHOWN, CONTACT CITY OF CENTRAL POINT PUBLIC WORKS DEPARTMENT.

 2. CONTRACTOR SHALL STAMP "W" ON TOP OF THE CURB DIRECTLY OVER THE SERVICE.
- 3. WATER METER STAKE TO GIVE OFFSET, NUMBER OF METERS, AND CUT OR FILL TO FINISH GRADE (SEE TYPICAL STAKE).

 4. PROTECTION OF EXISTING PROPERTY CORNERS IS
- CONTRACTORS RESPOSIBILITY.

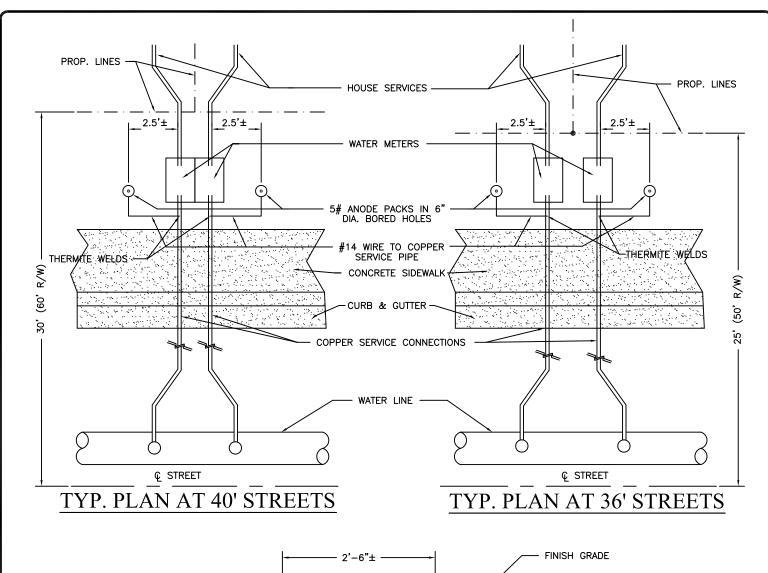
FILE: CP-W-7.DWG

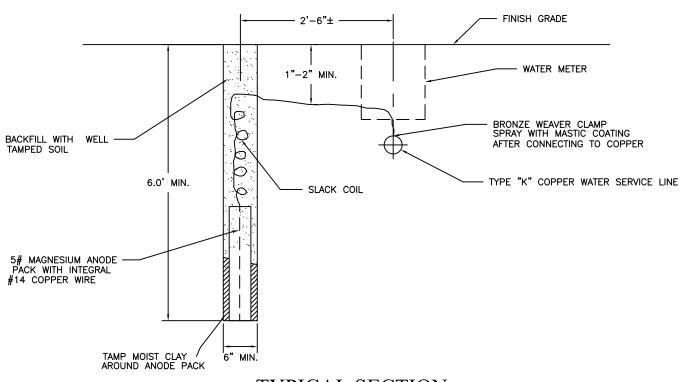


UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION

WATER SERVICE CONNECTION

REVISED DATE W-7 2/05/2016





TYPICAL SECTION

FILE: CP-W-8.DWG

CENTRAL POINT PUBLIC WORKS DEPARTMENT CATHODIC PROTECTION - WATER LINES

CITY OF

PUBLIC WORKS CONSTRUCTION

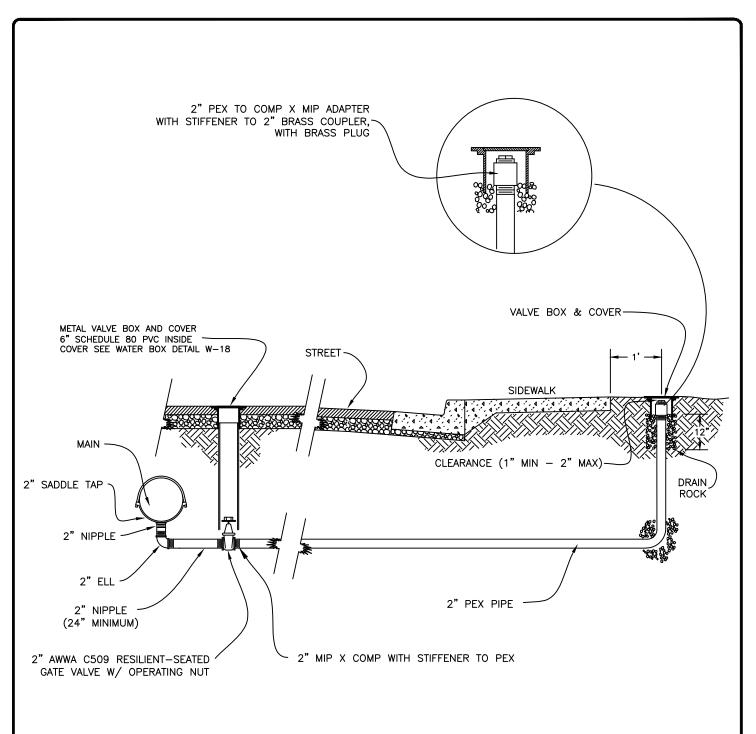
PUBLIC WORKS DEPARTMENT

CATHODIC PROTECTION - WATER LINES

REVISED

DATE

DRAWING NO.



LOW POINT MAINLINE BLOWOFF ASSEMBLY

CITY OF

CENTRAL POINT

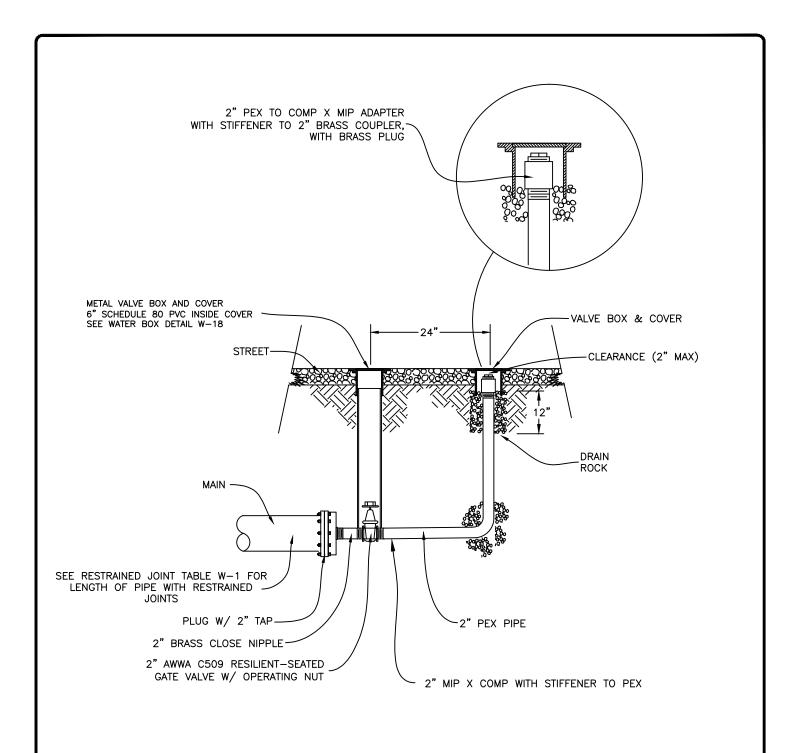
PUBLIC WORKS DEPARTMENT

FILE: CP-W-9A.DWG UNIFORM STANDARDS REVISED DATE PUBLIC WORKS CONSTRUCTION W-9A

LOW POINT MAIN LINE BLOWOFF ASSEMBLY

DRAWING No

5/15/2019



PERMANENT MAINLINE BLOWOFF ASSEMBLY

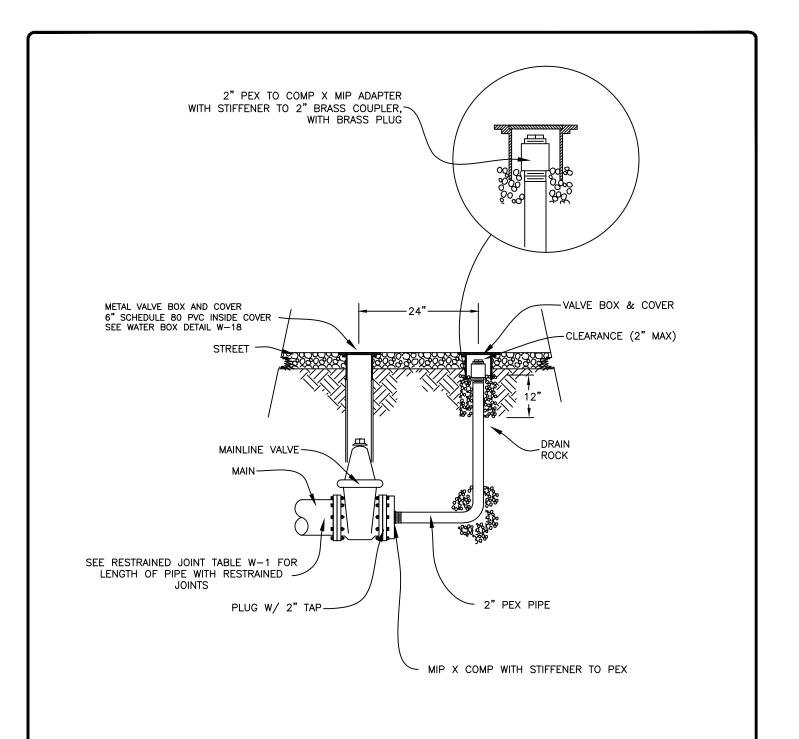
FILE: CP-W-9B.DWG



UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION

MAIN LINE BLOWOFF ASSEMBLY

EVISED DATE W-9B



TEMPORARY MAINLINE BLOWOFF ASSEMBLY

FILE: CP-W-10B.DWG

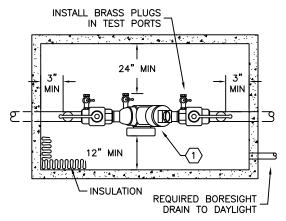


UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

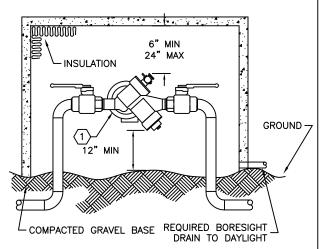
5/15/2019

|W-10B

MAIN LINE BLOWOFF ASSEMBLY



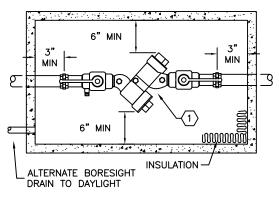
PLAN



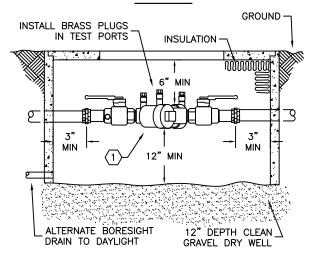
ELEVATION

1 DHS APPROVED BPA INCLUDING FACTORY SUPPLIED SHUT OFF VALVES

1/2"-2" REDUCED PRESSURE BACKFLOW ASSEMBLY RPBA



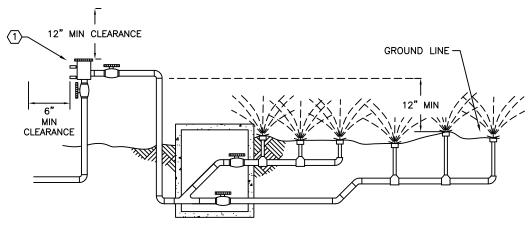
PLAN



ELEVATION

1) DHS APPROVED BPA INCLUDING FACTORY SUPPLIED SHUT OFF VALVES

1/2"-2" DOUBLE CHECK VALVE ASSEMBLY DCVA



(1) DHS APPROVED BPA

PRESSURE VACUUM BREAKER (PVB)

FILE: CP-W-11.DWG

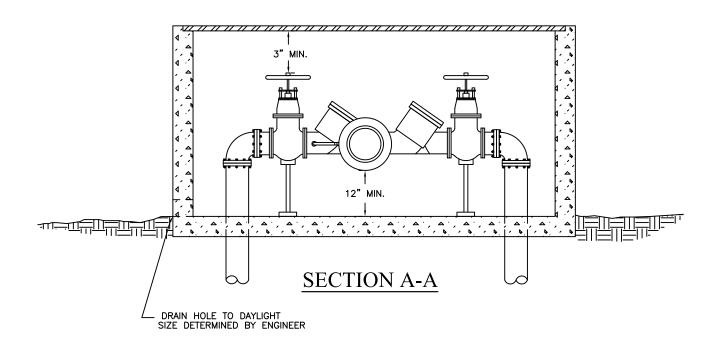


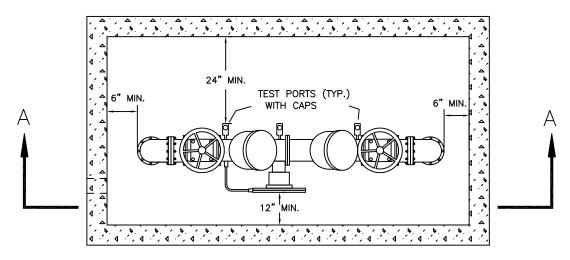
BACKFLOW PREVENTION ASSEMBLIES

INSTALLATION GUIDE

CHECKED DATE W-11

REVISED DATE DRAWING NO.





PLAN

MIN. CLEARANCE FOR LARGE RPBD* INSTALLATION

- NOTES:

 1. DRAWING DEPICTS TYPICAL MINIMUM DIMENSIONS FOR LARGE (2 1/2" AND LARGER) REDUCED PRESSURE BACKFLOW DEVICES.

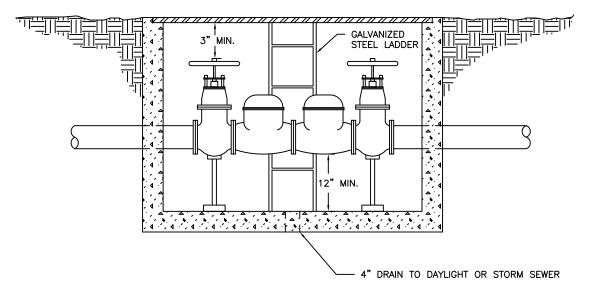
 2. DEVICE SHALL NOT BE SUBJECT TO FLOODING.

 3. DRAIN LINES SHALL BE SIZED TO ACCOMMODATE FULL RELIEF VALVE DISCHARGE FLOW.

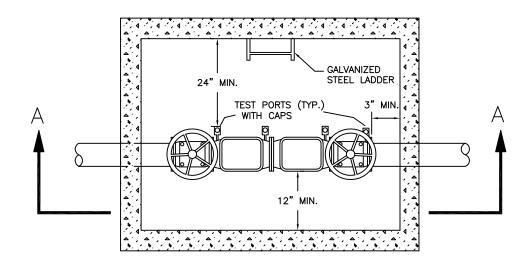
 4. REDUCED PRESSURE BACKFLOW DEVICES ARE TYPICALLY INSTALLED ABOVE GRADE IN A WELL DRAINING AREAS, BUT MAY BE INSTALLED BELOW GRADE IF AN ADEQUATE DRAIN TO DAYLIGHT IS PROVIDED. IS PROVIDED.

* REDUCED PRESSURE BACKFLOW DEVICES

				FILE: C	P-W-12.DWG
	CENTRAL POINT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	W-12
CENTRAL POINT	PUBLIC WORKS DEPARTMENT	MIN. CLEARANCE FOR LARGE RPBD* INSTALLATION	APPROVED	DATE	DRAWING No.
			REVISED	DATE	DICA WING NO.



SECTION A-A



PLAN

MIN. CLEARANCE FOR LARGE DCVA* INSTALLATION

NOTES:

1. DRAWING DEPICTS TYPICAL MINIMUM DIMENSIONS FOR LARGE (2 1/2" AND LARGER) DOUBLE CHECK VALVE ASSEMBLIES.

2. ASSEMBLY SHALL NOT BE SUBJECT TO FLOODING.

* DOUBLE CHECK VALVE ASSEMBLY

FILE: CP-W-13.DWG

W-13

DRAWING No.

DATE

DATE

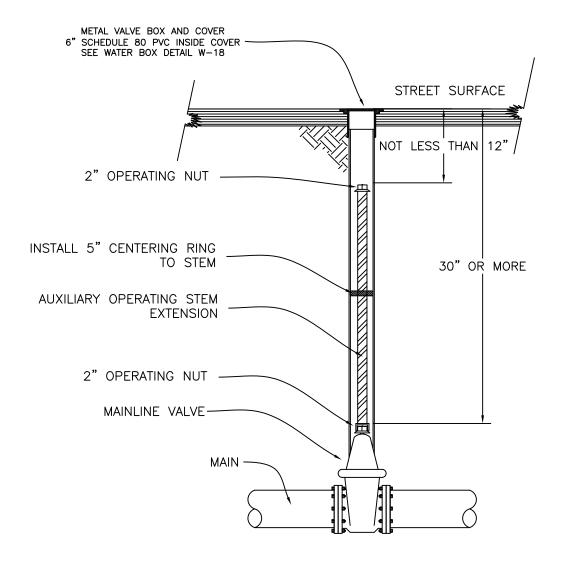
CENTRAL POINT
PUBLIC WORKS DEPARTMENT

CENTRAL POINT
PUBLIC WORKS DEPARTMENT

CITY OF
PUBLIC WORKS CONSTRUCTION

MIN. CLEARANCE FOR LARGE DCVA* INSTALLATION

REVISED.



WATER VALVE EXTENSION

Use when valve operating nut is greater than 30 inches deeper than street level

FILE: CP-W-14.DWG

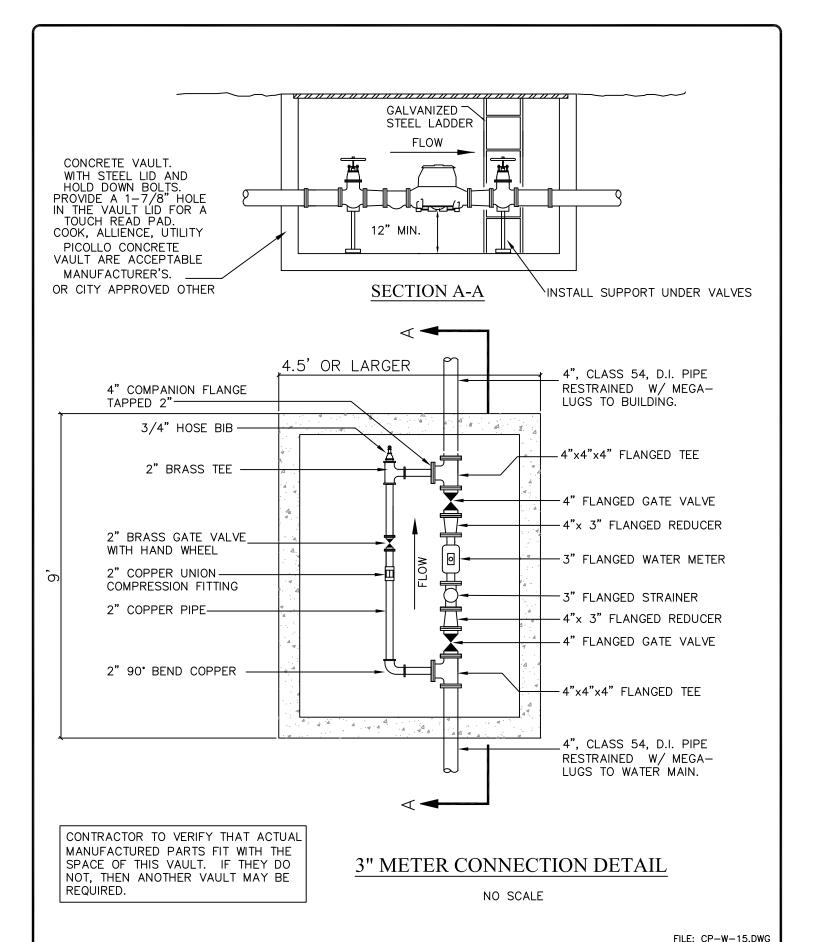


UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

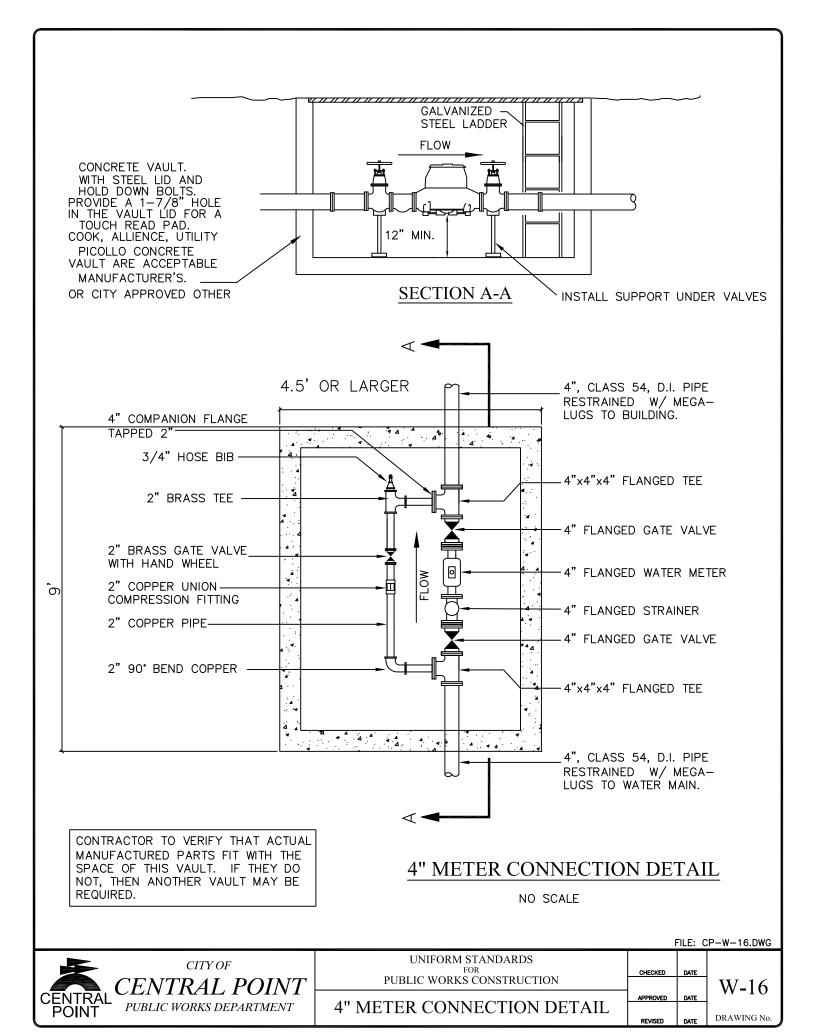
REVISED 11/14/2016

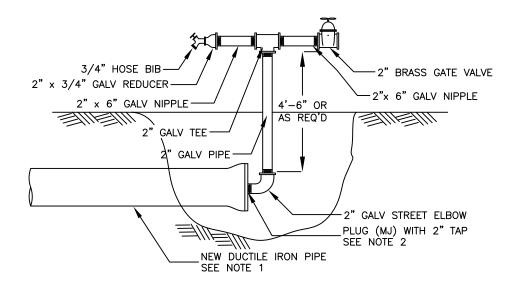
WATER VALVE EXTENSION

W-14

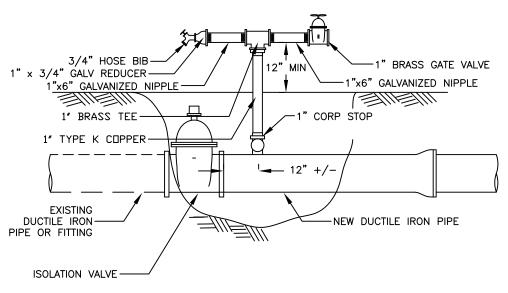


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CENTRAL POINT	UNIFORM STANDARDS FOR PUBLIC WORKS CONSTRUCTION	CHECKED	DATE	W-15
CENTRAL PUBLIC WORKS DEPARTMENT	3" METER CONNECTION DETAIL	APPROVED REVISED	DATE DATE	DRAWING No.





2" SAMPLE TREE



1" DISINFECTION TREE

NOTES:

- 1. AT A MINIMUM, RESTRAIN THE LAST THREE FULL PIPE LENGTHS FOR 4", 6", AND 8" PIPE. RESTRAIN THE LAST 4 FULL PIPE LENGTHS FOR 12" PIPE.
- 2. UPON COMPLETION OF REQUIRED TESTS AND AFTER CONFIRMATION OF SAMPLE RESULTS, CONTRACTOR TO REMOVE TREE ASSEMBLY.

CENTRAL POINT
PUBLIC WORKS DEPARTMENT

CITY OF

CENTRAL POINT
PUBLIC WORKS DEPARTMENT

CENTRAL POINT
PUBLIC WORKS DEPARTMENT

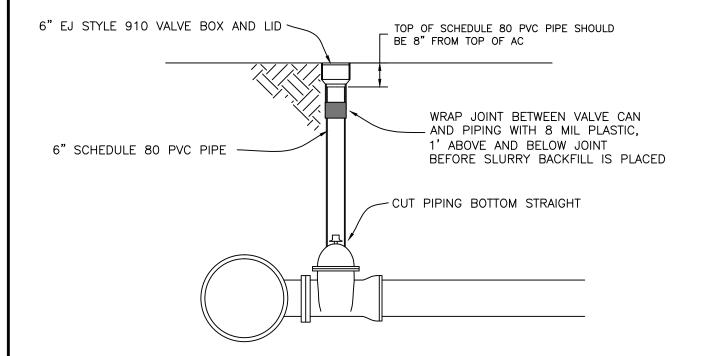
SAMPLE AND DISINFECTION TREES

FILE: CP-W-17.DWG

CHECKED
DATE

W-17

APPROVED
DATE
DRAWING No.



WATER VALVE BOX DETAIL

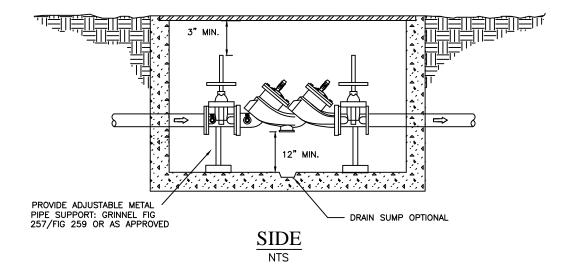
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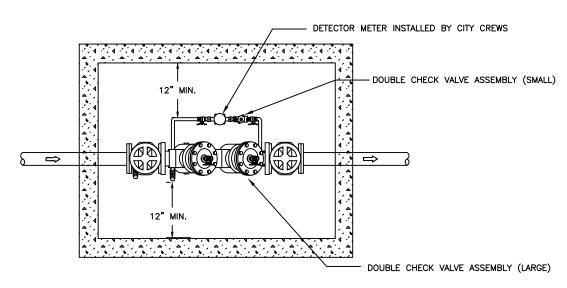


UNIFORM STANDARDS
FOR
PUBLIC WORKS CONSTRUCTION

REVISED DATE 10/31/2018 WATER VALVE BOX DETAIL

W-18





$\frac{PLAN}{\text{\tiny NTS}}$

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIRE VAULTS

NOTES:

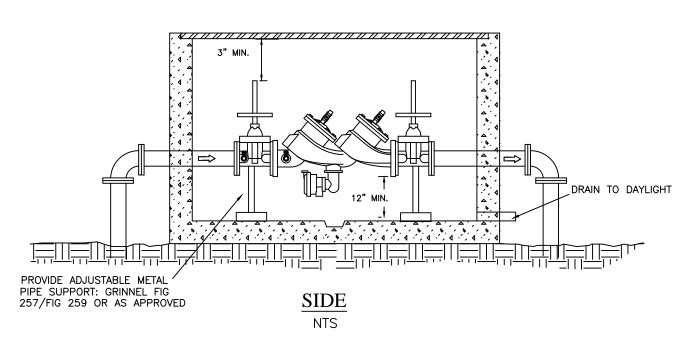
- DRAWING DEPICTS TYPICAL MINIMUM DIMENSIONS FOR LARGE (2 1/2" AND LARGER) DOUBLE CHECK DECECTOR ASSEMBLIES.
- 2. ASSEMBLY SHALL NOT BE SUBJECT TO FLOODING.
- 3. BRASS OR PLASTIC PLUGS ARE REQUIRED FOR ALL TESTING PORTS.
- 4. LID/COVER IS REQUIRED TO HAVE A PORT IN ORDER TO TO AFFIX TOUCH PAD/RADIO READ.

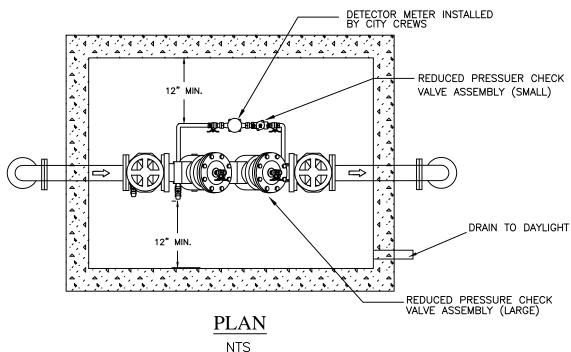
UNIFORM STANDARDS REVISED DATE PUBLIC WORKS CONSTRUCTION W-19

CITY OF CENTRAL POINT 11/01/2018 CENTRAL PUBLIC WORKS DEPARTMENT DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) POINT

DRAWING No.

FILE: CP-W-19.DWG





REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) FOR FIRE VAULTS

NOTES:

- 1. DRAWING DEPICTS TYPICAL MINIMUM DIMENSIONS FOR LARGE (2 1/2" AND LARGER) REDUCED PRESSURE DECECTOR ASSEMBLIES.
- 2. ASSEMBLY SHALL NOT BE SUBJECT TO FLOODING.
 3. BRASS OR PLASTIC PLUGS ARE REQUIRED FOR ALL TESTING PORTS.

4. LID/COVER IS REQUIRED TO HAVE A PORT IN ORDER TO TO AFFIX TOUCH PAD/RADIO READ.

FILE: CP-W-20.DWG UNIFORM STANDARDS CITY OF REVISED DATE PUBLIC WORKS CONSTRUCTION CENTRAL POINT W-20 11/01/2018 CENTRAL REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) PUBLIC WORKS DEPARTMENT POINT DRAWING No.