LEGEND

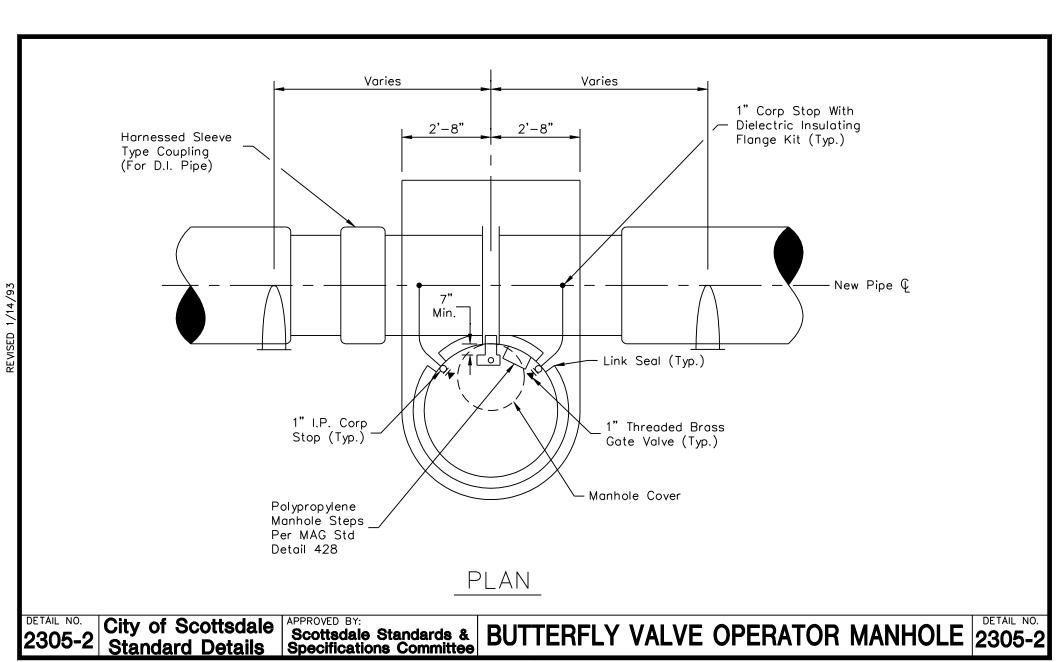
- 48" I.D. Manhole Shaft Per MAG Std. Detail 420, Type "B" Top
- 32" Hinged Manhole Frame & Cover Per COS Specifications Section 610.8
- Grouted Adjusting Rings
- Polypropylene Manhole Steps Per MAG Std. Detail 428, 12" Spacing Typical
- Operator Nut
- Wall Bracket
- Packing Gland
- 6" Extension
- #4 Rebar 12" On Center Each Way 2" Clear Typical
- Butterfly Valve
- 3" Diameter Drain
- 8 Cu. Ft. Gravel Sump
- Adjustable Pipe Saddle Support
- Rectangular Cut-Out In Manhole Shaft, Fill Space Between Shaft And Pipe With 1" Sheet Foam, Brick And Mortar

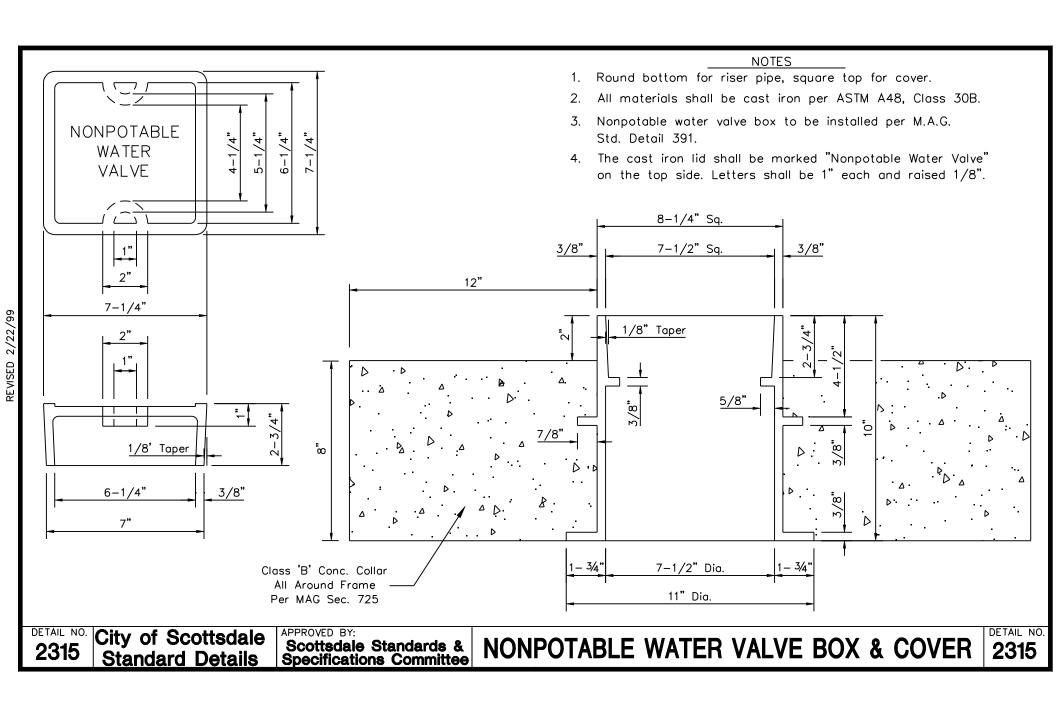
City of Scottsdale Standard Details

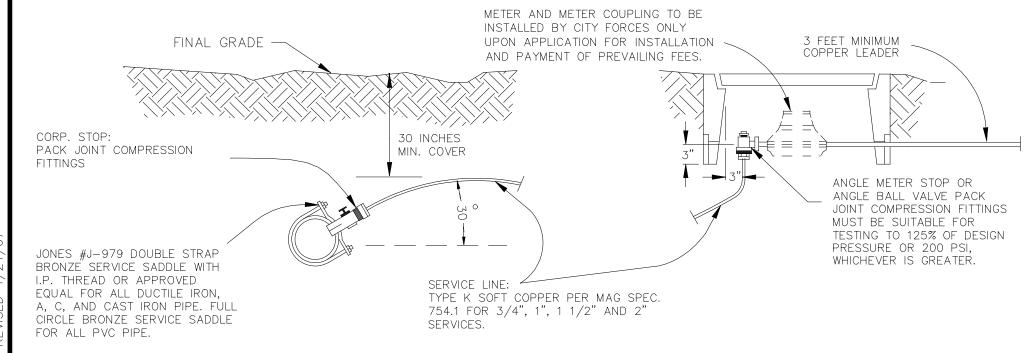
2305-1

Scottsdale Standards & **Specifications Committee** **BUTTERFLY VALVE OPERATOR MANHOLE**

DETAIL NO. 2305-1







NOTE:

- 1. All taps must be made using a service saddle.
- 2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.
- 3. Where a contractor is installing new water lines, all water service connections shall also be installed. The contractor's installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover per M.A.G. Specifications.
- 4. Copper service lines in the 3/4", 1", 1 1/2", and 2" sizes that cross streets will be one continuous piece. Only with written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.
- 5. Authorized City of Scottsdale Water and Wastewater Operations personnel, or a City approved tapping contractor shall install the water service connections on existing mains.
- 6. All services shall be set to final/curb grade prior to pressure testing. If meter stop is compromised during construction, or is affected as a result of grade change, it will be required to be replaced. Final landscape grade shall be set flush to top of the meter box.

DETAIL NO.

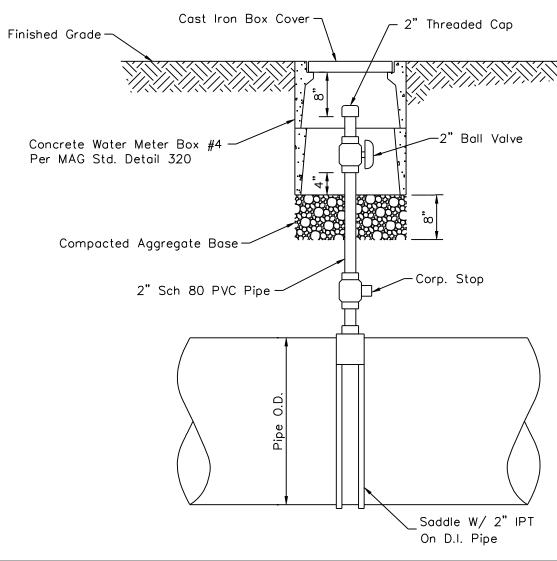
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

WATER SERVICE LINE CONNECTION

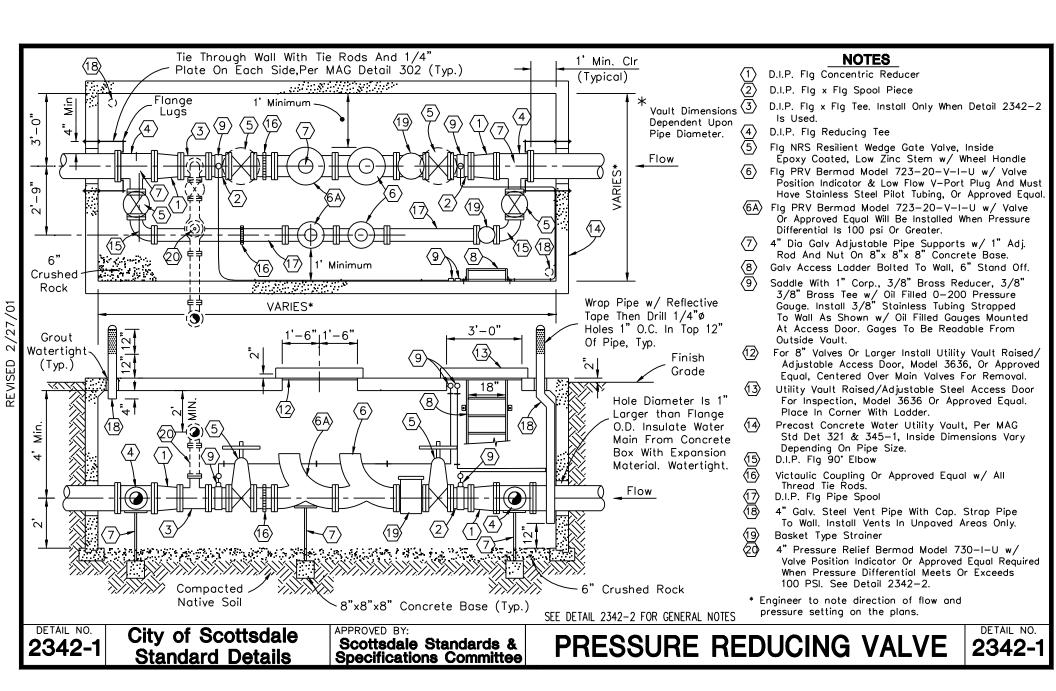
DETAIL NO.

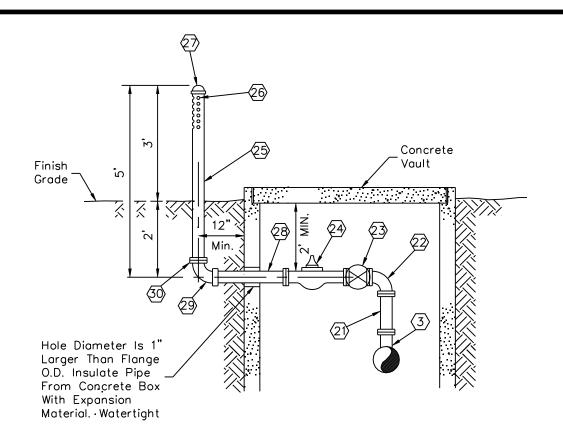


City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

TAP FOR FUTURE CHLORINE INJECTION





PRESSURE RELIEF OUTLET ASSEMBLY DETAIL

SEE NOTE 20 DETAIL 2342-1

NOTES

- $\overline{3}$ Flg x Flg Tee, See Detail 2342-1
- (21) 4" Flg Connecting Piece
- 4" DIP Fig x Fig 90° Elbow, w/ Restrained Joints (Meg A Lug Or Approved Equal)
- 4" Flg NRS Resilient Wedge Gate Valve, Inside Epoxy Coated, Low Zinc Stem w/ Handwheel
- 4" Flg PRV Bermad Model 730-I-U Or Approved Equal, Epoxy Coated w/ Valve Position Indicator
- (25) 4" SCH. 40 Steel Pipe (Painted Desert Beige)
- 6 Rows 2" O.C. Of 3-1"ø Holes, 180° Spray Pattern
- ⟨2⟩ 4" SCH 40 Steel Cap (Threaded)
- 28 4" Ductile Pipe Spool
- 29 4" DIP MJ x Flg 90° Elbow
- (30) Flanged Connection w/ Breakaway Bolts

GENERAL NOTES

- 1. All pipe and valves are to be rated per system pressure.
- 2. Pilot lines for all controls will be stainless steel tubing.
- 3. Stainless tubing bends will be uniform and made with a tubing bender.
- 4. Bypass line (small PRV) shall be 4" Min. D.I.P.
- 5. Airvents and relief outlet riser pipe shall not be located within 12 feet of an existing edge of pavement or within 2 feet of a barrier type curb or 2' back of sidewalk.

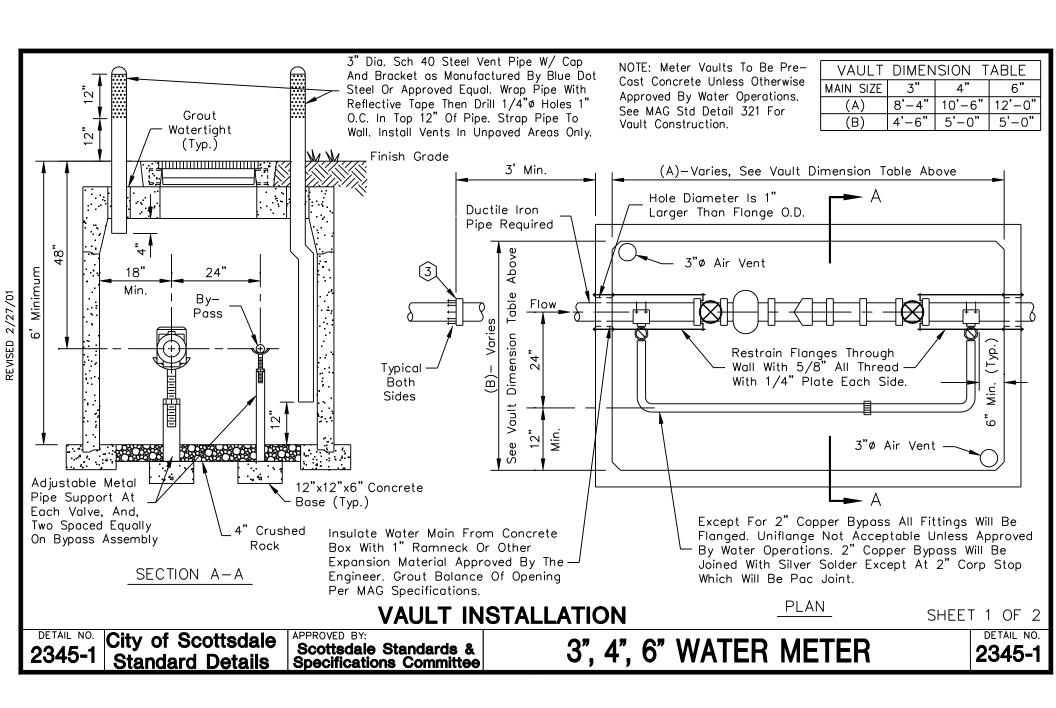
DETAIL NO. 2342-2 City of Scottsdale Standard Details APPROVED BY:

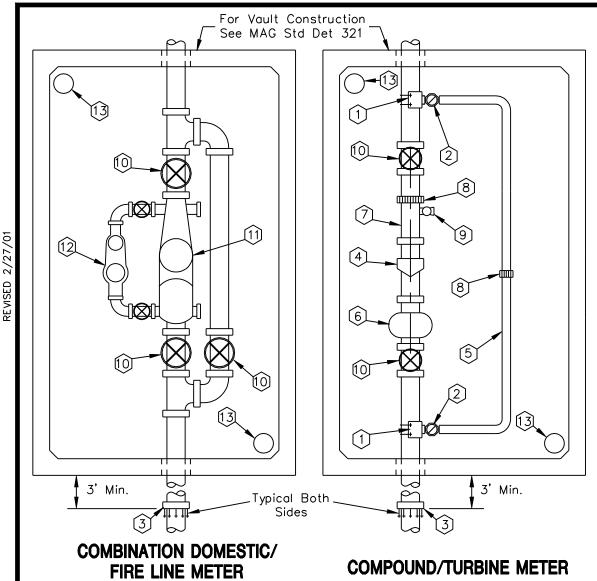
Scottsdale Standards & Specifications Committee

PRESSURE REDUCING VALVE

DETAIL NO.

2342-2





KEY NOTES

- 1 Double Strap All Bronze Service Saddle, Or Flanged x Flanged Tee With Flanged X Flanged Valve For Sizes 3" Or Larger.
- Corp. Stop, 2"(Ball Type), Or R.W. Gate Valve With Non-Rising Stem Handwheel Operator For 3" Or Larger.
- (3) Adaptor, Flanged To Mech. Joint For A.C.P.
- (4) Turbine (High Flow) Or Compound Meter, See Note 4 Below.
- (5) 2" Ridged Type "K" Copper By—Pass Line, 3" Or Larger To Be Ductile Iron. Not Less Than One Pipe Size Smaller Than Meter In Note 4.
- (6) Strainer, Supplied with Meter.
- (7) Flanged Spool, (3 Pipe Diameters In Length, Min.).
- (8) Provide Victaulic Coupling Or Approved Equal For All Lines 3" Or Larger.
- 2" Threaded Outlet And Ball Valve. Not Needed If Vertical Test Valve Is Provided On Meter.
- Resilient Wedge Gate Valve, Flanged, With Hand Wheel, Open Left, With Non-Rising Stem.
- [1] Turbine (High Flow) Or Compound Meter, See Note 4 Below.
- 2" Turbine Meter: Sensus "W-160" Or Hersey "MHR"
 Or Neptune Trident Turbine.
- [13] 3"ø Air Vent, See Sheet 1 Of 2.

NOTES

- 1. For Larger Meters Special Vault Design Is Required.
- 2. Use Of Remote Reading Device At Option Of Utility.
- 3. An Approved Backflow Prevention Assembly Shall Be Required Downstream Of The Water Meter. Contact Water Resources, Backflow Prevention For Specific Information
- 4. Meter To Be Provided By City Upon Payment Of Fees.

SHEET 2 OF 2

DETAIL NO. 2345-2

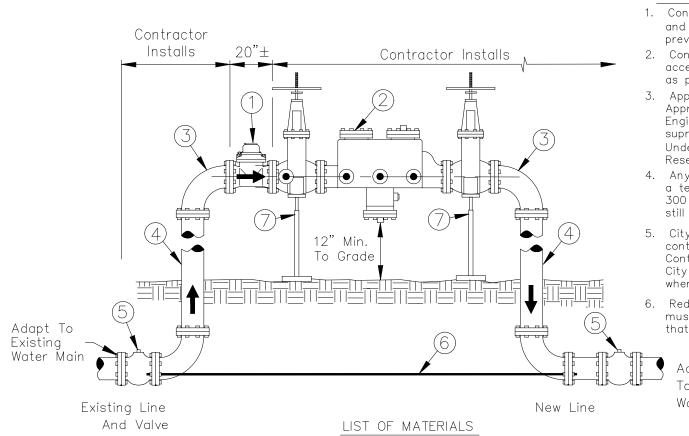
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

3, 4", 6" WATER METER

2345-2



- 1. Contractor to supply and install above ground piping and fittings to accommodate 3" meter, backflow preventer and 2 90° ells.
- 2. Contractor to remove piping and fittings after acceptance of new water main and complete connection as per MAG Standards.
- Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.
- 4. Any water line that is greater than 300 feet will require a temporary construction meter. Water lines less than 300 feet will not require a construction meter but will still be subject to bacterial testing.
- 5. City Inspector to determine readiness for meter prior to contacting Water Resources for meter setting.

 Contractor to supply transmittal number to City Inspector.

 City Inspector to notify the Water Resources Department when meter is ready for installation.
- 6. Reduced pressure principle backflow assemblies must be tested by a certified tester after installation, that is recognized by the City of Scottsdale.

Adapt Size And Material To New Non-Approved Water Main

- (1) 3" Turbine Construction Meter With 3" Flanges, Supplied By City.
- 3" Approved Reduced Pressure Principle Backflow Prevention Assembly, Supplied By Contractor.
- 3 3" Flanged Ductile Iron 90° Ell, Supplied By Contractor.
- 4 3" Ductile Iron Spool.

- (5) Line valves shall be within a 20' maximum distance upstream and downstream of flow meter or as approved by COS, and shall remain in—place after removal of temporary meter.
- 6) 3/4"ø zinc coated threaded rod.
- 7 Adjustable Metal Pipe Support (Required).

DETAIL NO.

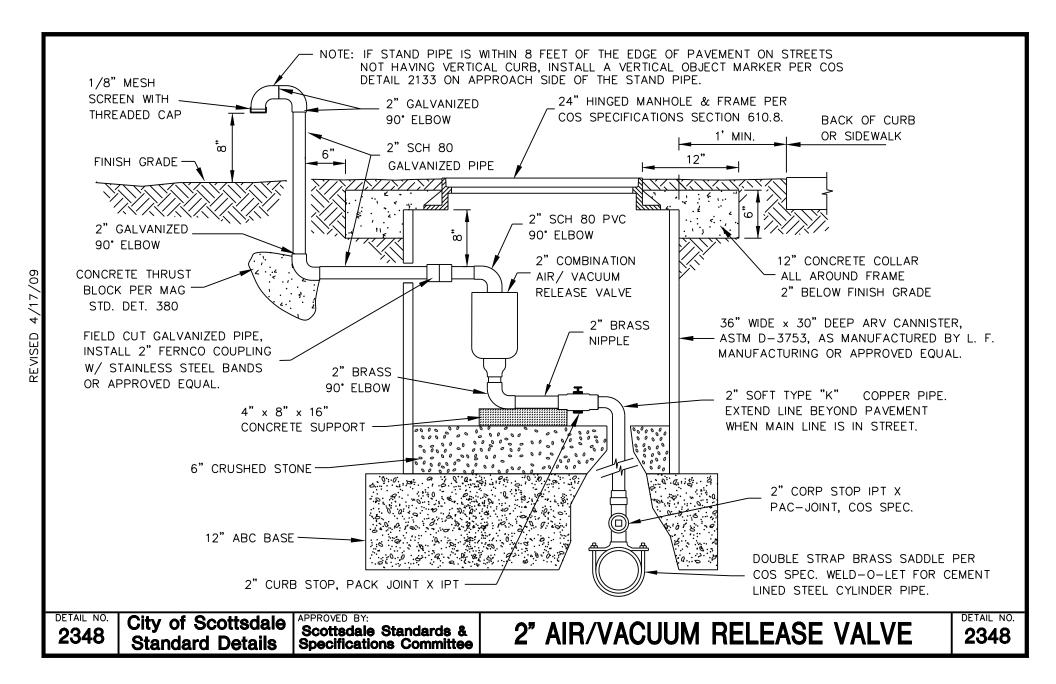
City of Scottsdale Standard Details

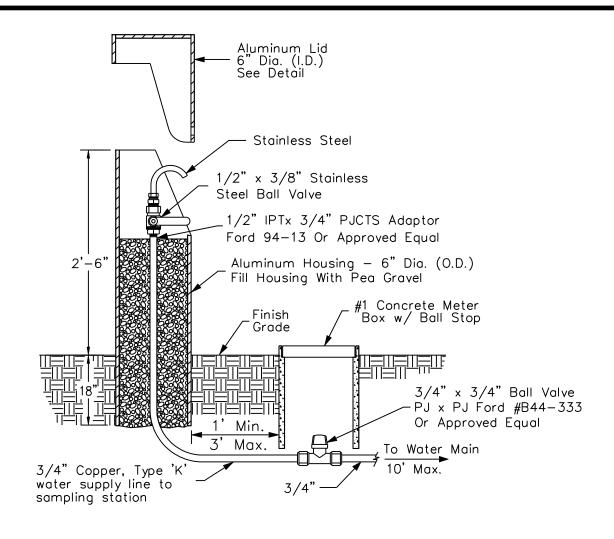
APPROVED BY:

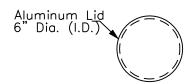
Scottsdale Standards & Specifications Committee

TEMPORARY CONSTRUCTION METER

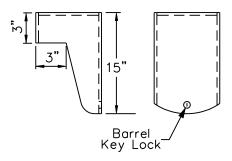
DETAIL NO.







Top View



Side View

Front View

LID DETAILS N.T.S.

NOTES:

- 1. Water Quality Sampling Station to be Koralean or approved equal.
- 2. Keys to locks shall be delivered to City of Scottsdale Water Quality Department upon acceptance.

TYPICAL INSTALLATION

N.T.S.

DETAIL NO. **2349**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

WATER QUALITY SAMPLING STATION

LIST OF MATERIALS

- Approved double check valve backflow prevention assembly.
- Resilient seated gate valve. O.S. & Y. (fire line connection) N.R.S. (non fire line)
- 3 90° ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- 4 Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- (5) Flanged adapter (when required)

- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- 7) Test cocks with brass plugs or adaptors with caps installed. (4 required)
- (8) Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

GENERAL NOTES

- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear ance around the assembly.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- 6. Call for underground inspection before backfilling trench.
- 7. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.
- 8. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

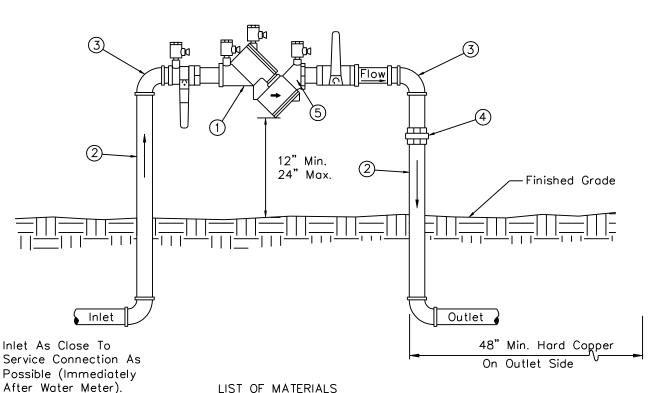
DETAIL NO. **2351**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES



- 1. Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Copper fittings shall be connected with lead free solder joints.
- 3. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 4. All nipples to be copper or brass.
- Inlet / outlet piping must be type "K" hard copper.
- 6. Call for underground inspection before backfilling trench.
- 7. Vertical installations of assemblies on fire sprinkler systems are allowed using assemblies approved for use in the vertical position on fire systems.
- 8. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers, Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

LIST OF MATERIALS

- 1 Approved double check valve backflow prevention assembly, ball valves included.
- Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
- 90° ell, copper, 3/4" thru 2 1/2".
- Pipe union, brass or copper.
- Test cocks with brass plugs or adaptors with caps installed. (4 required)

DETAIL NO. 2352

Hard Copper On Inlet Side.

City of Scottsdale **Standard Details**

APPROVED BY:

Scottsdale Standards & **Specifications Committee** DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES

LIST OF MATERIALS

- Approved reduced pressure principle backflow prevention assembly.
- Resilient seated gate valve. O.S. & Y. (fire line connection). N.R.S. (non fire line)
- 3 90° ell. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used on underground joints.
- ⑤ Flanged adapter (when required)

- 6 3/4" zinc coated threaded rod, (5/8" rod on 3" to 4" sizes), bolt to flanges as shown, typical both sides.
- (7) Test cocks with brass plugs or adaptors with caps installed. (4 required)
- Adjustable metal pipe supports and concrete block supports with 1" adjusting rod and nut on assemblies 4" and larger. Install above grade.

GENERAL NOTES

- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clear ance around the assembly.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- 6. Call for underground inspection before backfilling trench.
- 7. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

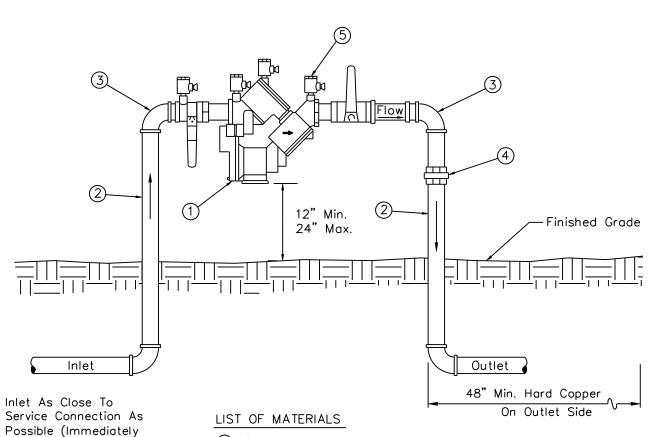
DETAIL NO.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES



- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- Copper fittings shall be connected with lead free solder joints.
- 3. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 4. All nipples to be copper or brass.
- 5. Inlet / outlet piping must be type "K" hard copper.
- 6. Call for underground inspection before backfilling trench.
- 7. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers. Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

Approved reduced pressure principle backflow prevention assembly ball valves included

- prevention assembly, ball valves included.

 ② Pipe spool, type "L" hard copper, 3/4" thru 2 1/2".
- (3) 90° ell, copper, 3/4" thru 2 1/2".
- 4 Pipe union, brass or copper.
- Test cocks with brass plugs or adaptors with caps installed. (4 Required)

DETAIL NO. **2354**

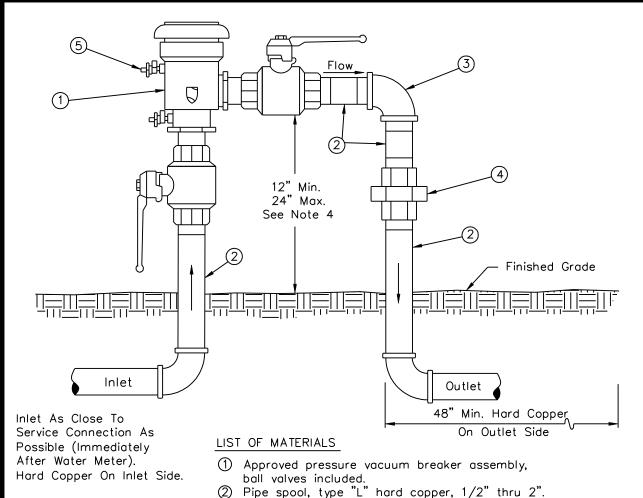
After Water Meter).

Hard Copper On Inlet Side.

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THRU 2 1/2 INCHES



- Backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Pressure vacuum breakers must be installed at least 12" above all downstream piping.
- 3. If this distance exceeds 24 inches, a reduced pressure principle backflow prevention assembly must be utilized. See Detail 2354.
- Copper fittings shall be connected with lead free solder joints.
- 5. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 6. All nipples to be copper or brass.
- Inlet / Outlet piping must be type "K" hard copper.
- 8. Call for underground inspection before backfilling trench.
- Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers.

DETAIL NO. **2355**

City of Scottsdale Standard Details

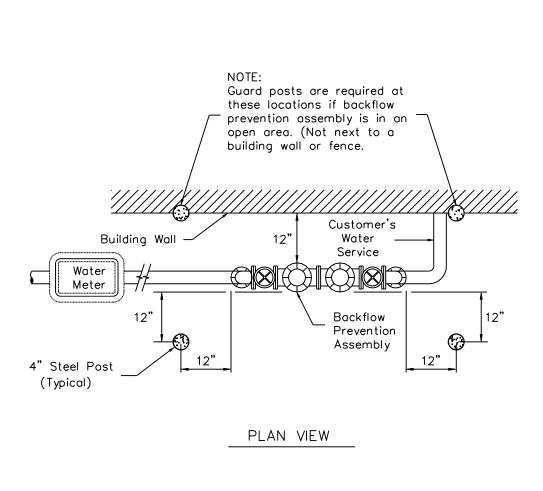
APPROVED BY:

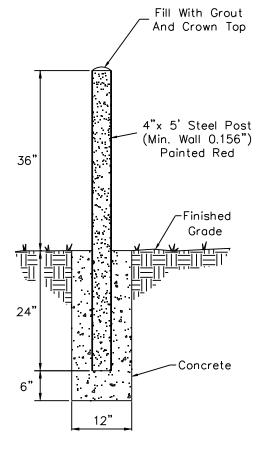
3 90° ell, copper, 1/2" thru 2".4 Pipe union, brass or copper.

Scottsdale Standards & Specifications Committee

(5) Test cocks with brass plugs or adaptors with caps installed. (2 required)

PRESSURE VACUUM BREAKER ASSEMBLY FOR ASSEMBLIES 1/2 INCH THRU 2 INCHES





GUARD POST SECTION

DETAIL NO. **2356**

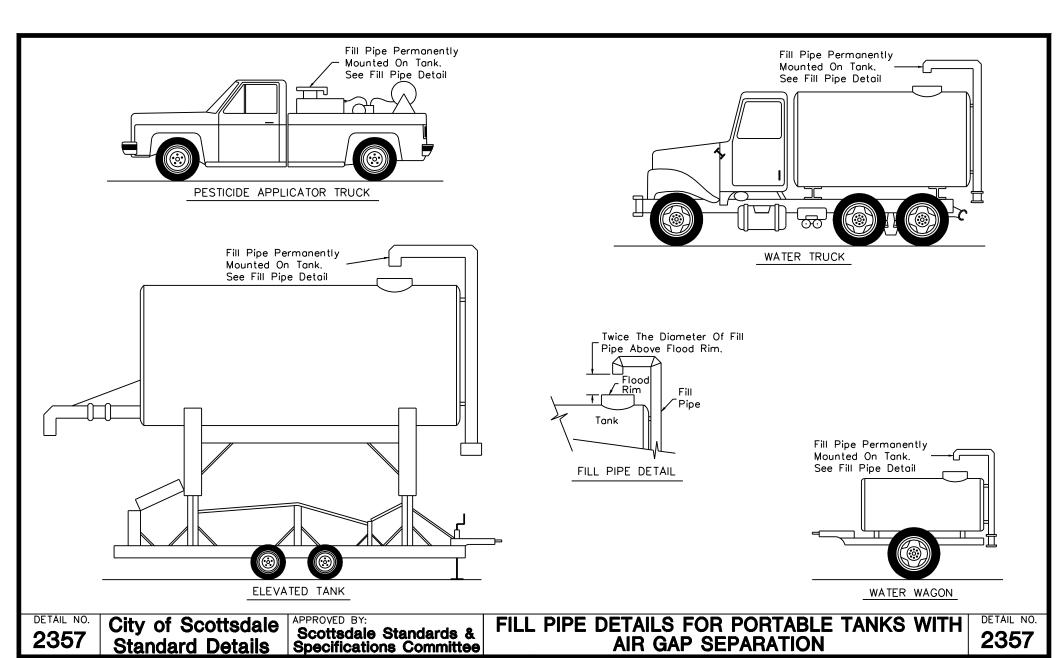
City of Scottsdale Standard Details

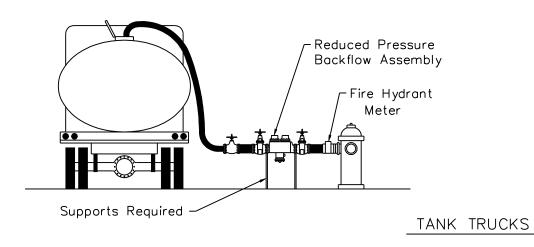
APPROVED BY:

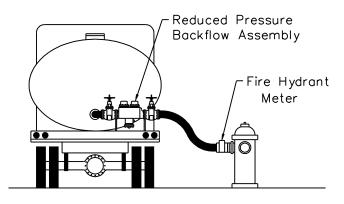
Scottsdale Standards & Specifications Committee

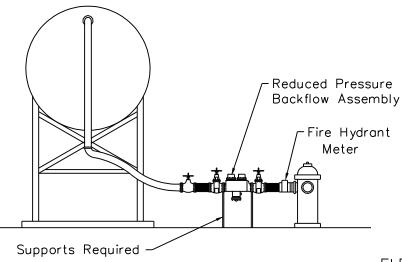
GUARD POSTS FOR BACKFLOW PREVENTION ASSEMBLIES

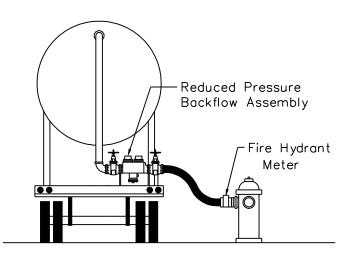
DETAIL NO.











ELEVATED TANKS

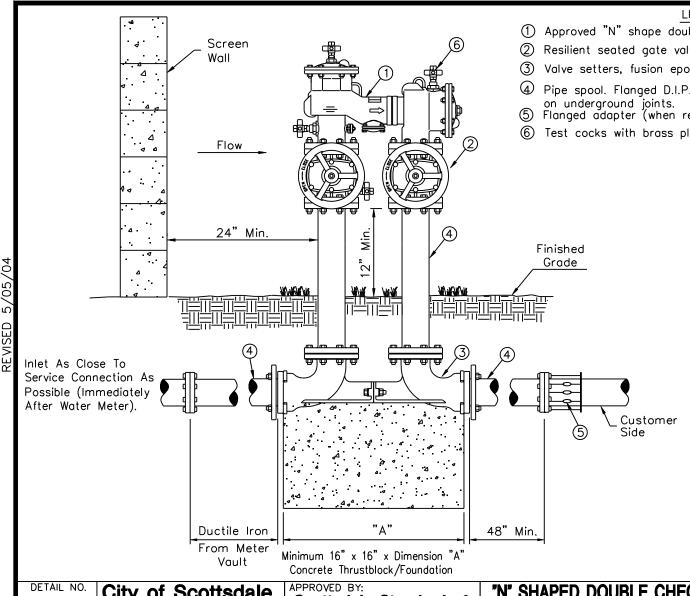
DETAIL NO. **2358**

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

BACKFLOW PREVENTION METHOD FOR PORTABLE TANKS WITH NO AIR GAP SEPARATION



LIST OF MATERIALS

- (1) Approved "N" shape double check valve backflow prevention assembly.
- Resilient seated gate valve. O.S. & Y. (fire line connection) N.R.S. (non fire line)
- Valve setters, fusion epoxy coated ductile iron, plated nuts and bolts. (2 required)
- Pipe spool. Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used
- Flanged adapter (when required)
- (6) Test cocks with bross plugs or adaptors with caps installed. (4 required)

GENERAL NOTES

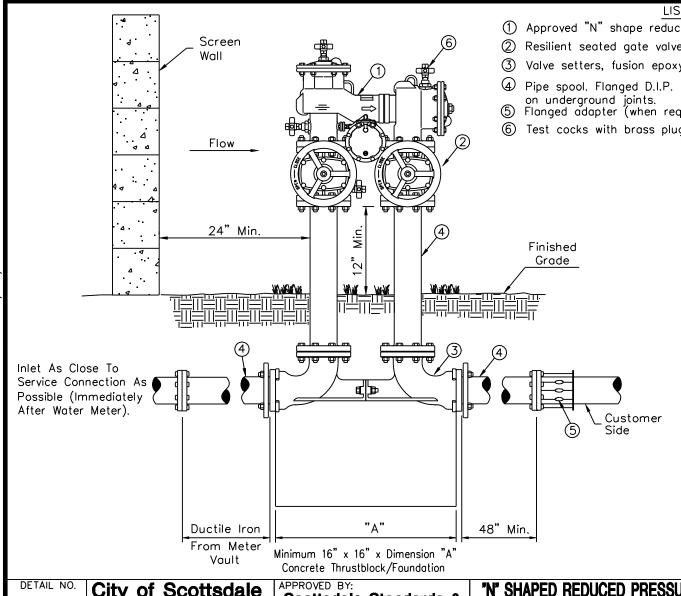
- 1. Backflow backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- 3. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clearance around the assembly.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- 5. Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- 6. Call for underground inspection before backfilling trench.
- Seal Approval from the American Society of Sanitation Engineers, Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

2359

City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee "N" SHAPED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES

2359



LIST OF MATERIALS

- (1) Approved "N" shape reduced pressure principle backflow prevention assembly.
- 2 Resilient seated gate valve. O.S. & Y. (fire line connection) N.R.S. (non fire line)
- 3 Valve setters, fusion epoxy coated ductile iron, plated nuts and bolts. (2 required)
- Pipe spool, Flanged D.I.P. 3" thru 10", Mega Lug or approved equal may be used
- (5) Flanged adapter (when required)
- (6) Test cocks with brass plugs or adaptors with caps installed. (4 required)

GENERAL NOTES

- 1. Backflow backflow assemblies must be tested by a certified tester that is recognized by the City of Scottsdale.
- 2. Backflow preventers shall be painted light tan or a color to match the building. Do not paint the name plate or any brass parts on the assembly.
- 3. For backflow preventers requiring guard posts see Detail 2356. Backflow preventers enclosed by screening shall maintain a 24 inch clearance around the assembly.
- 4. Finished grade underneath the backflow preventer shall be at 95% compaction.
- Backflow preventers on fire lines may require tamper switches on the shut off valves. Contact City Of Scottsdale Plan Review, Fire Dept.
- 6. Call for underground inspection before backfilling trench.
- 7. Approvals for backflow assemblies must have Seal Approval from the American Society of Sanitation Engineers, Backflow assemblies installed on fire supression systems must also have approval from Underwriters Laboratories and/or Factory Mutual Research Corporation.

2360

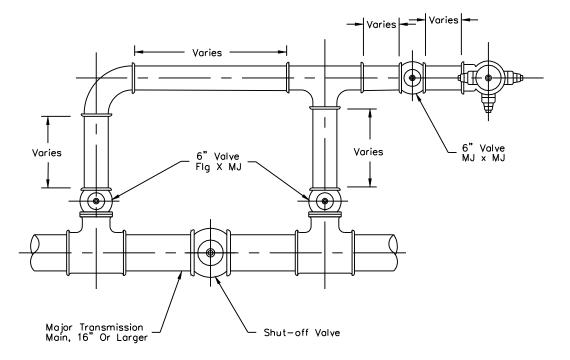
City of Scottsdale Standard Details

Scottsdale Standards & Specifications Committee "N" SHAPED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THRU 10 INCHES

DETAIL NO.

NOTES

- All joints in hydrant run-out to be restrained joints.
- See MAG Std. Detail 391-C for valve box installation.
- For water valve blocking see MAG Std. Detail 301.
- For additional information see MAG Std. Detail 360.

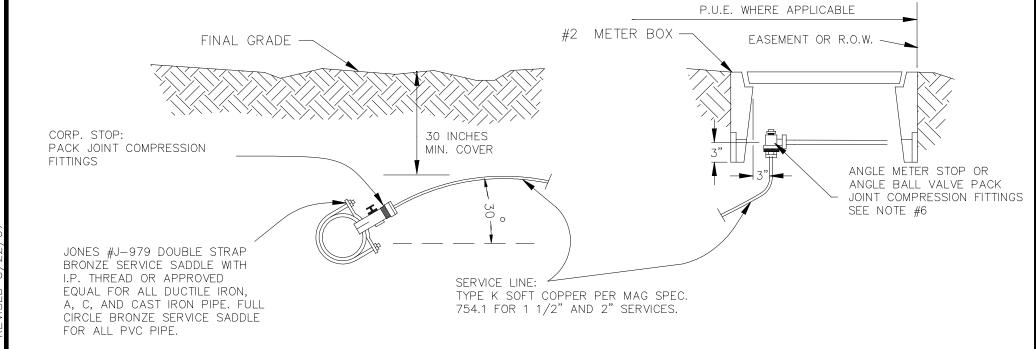


DETAIL NO. City of Scottsdale 2361

Standard Details

APPROVED BY:

Scottsdale Standards & **Specifications Committee** FIRE HYDRANT BYPASS ASSEMBLY



NOTE: 1. All taps must be made using a service saddle.

2. All service line sizes shall have the pack joint compression fittings for corp. stops and meter stops.

3. Where a contractor is installing new water lines, all fire line connections shall also be installed. The contractor's installation shall include the service saddle, corp. stop, service pipe, appurtenant fittings, meter stop, concrete meter box and box cover, per M.A.G. Specifications.

- 4. Copper service lines in the $1 \frac{1}{2}$, and 2 sizes that cross streets will be one continuous piece. Only with the written consent of Water & Wastewater Operations will joints be permitted under a road. When this occurs, pack joint fittings will be required; no soldered joints will be permitted.
- 5. Authorized City of Scottsdale Water and Wastewater Operations personnel or a City approved tapping contractor shall install the water service connections on existing mains.
- 6. A fire Department Identification Tag is required. Water resistant tag shall be affixed to valve in meter box and shall state: "DO NOT CLOSE! Fire Sprinkler Supply Line".
- 7. Rough grade shall be set to 1 ½ inches below top of meter box. Final landscape grade shall be set flush to top of meter box

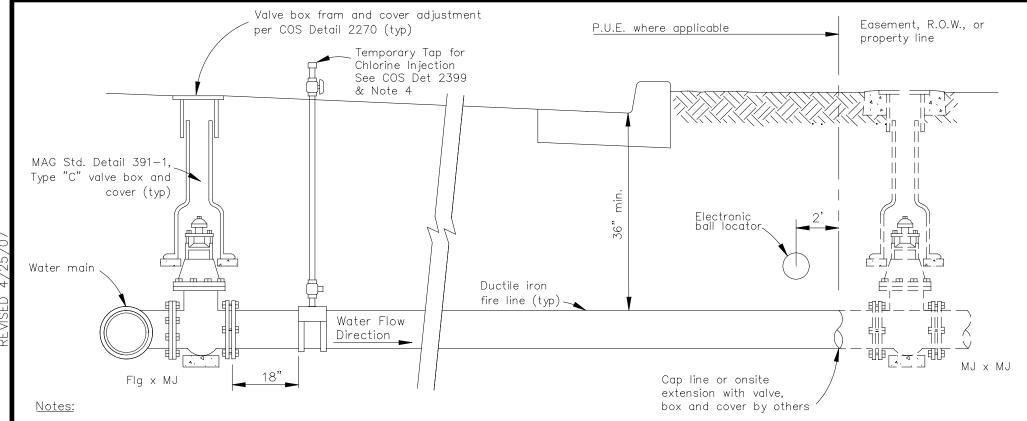
DETAIL NO. City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee 1 1/2"-2" FIRE LINE CONNECTION

DETAIL NO.

2362-1



- 1. All water lines within the right-of-way or public utility easement shall be polywrapped ductile iron pipe.
- 2. Joint restraint shall conform to the requirements of MAG Std. Detail 303.
- 3. When a water main is located behind the curb at the near side of the street, the gate valve by others is not required when the fire line is extended onto private property.
- 4. All 3" and larger fire lines are required to be disinfected and tested in accordance with MAG Section 611. A corporation stop shall be inserted in the top of the pipe 18" down stream from the tapping valve and will be used as the chlorine injection point.

City of Scottsdale Standard Details

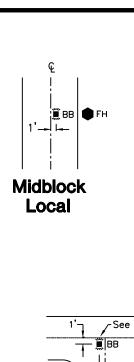
APPROVED BY: Scottsdale Standards & **Specifications Committee**

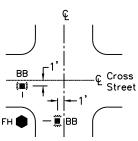
3" AND LARGER FIRE LINE CONNECTION

DETAIL NO.

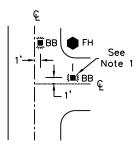
2362-2



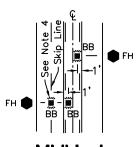




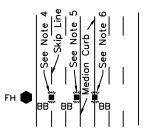




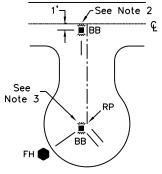
Local T Intersection



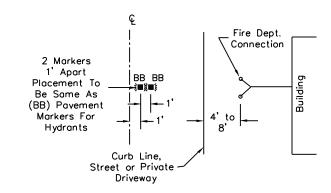
Midblock WITH CENTER LANE OR SKIP LINES



Midblock WITH RAISED MEDIAN



Cul-De-Sac Street



Fire Dept. Connection



Pavement Marker

(2-WAY REFLECTIVE BLUE)
(ADOT TYPE BB)

NOTES:

- 1. Not Required on Dead End Streets Without Hydrants
- 2. Place on Hydrant Side of Centerline.
- 3. Not Required When Cul-De-Sac is Less Than 250'.
- 4. To Be Placed in Line With Skip Line.
- 5. Place on Gutter or Adjacent To Curb.
- 6. Place on Top of Curb. (This Location Optional)
- 7. Pavement Markers Shall Not Be Placed Within One Foot of A Paint Line (Center to Center).

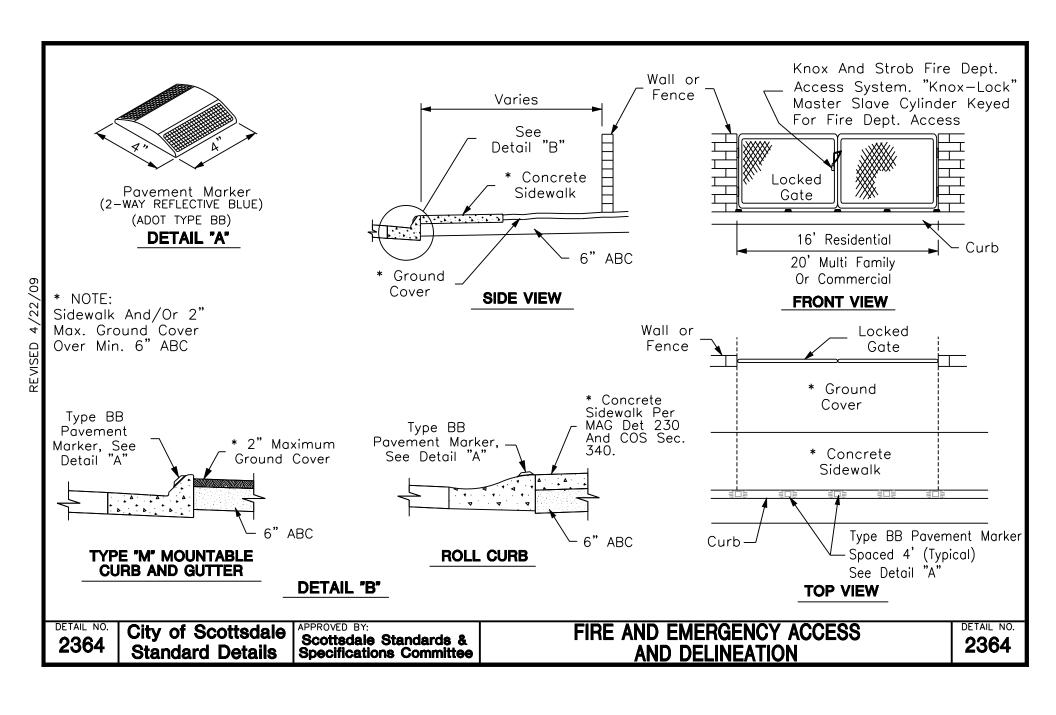
2363 City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards &

Specifications Committee

PAVEMENT MARKERS FOR FIRE HYDRANTS



NOTES:

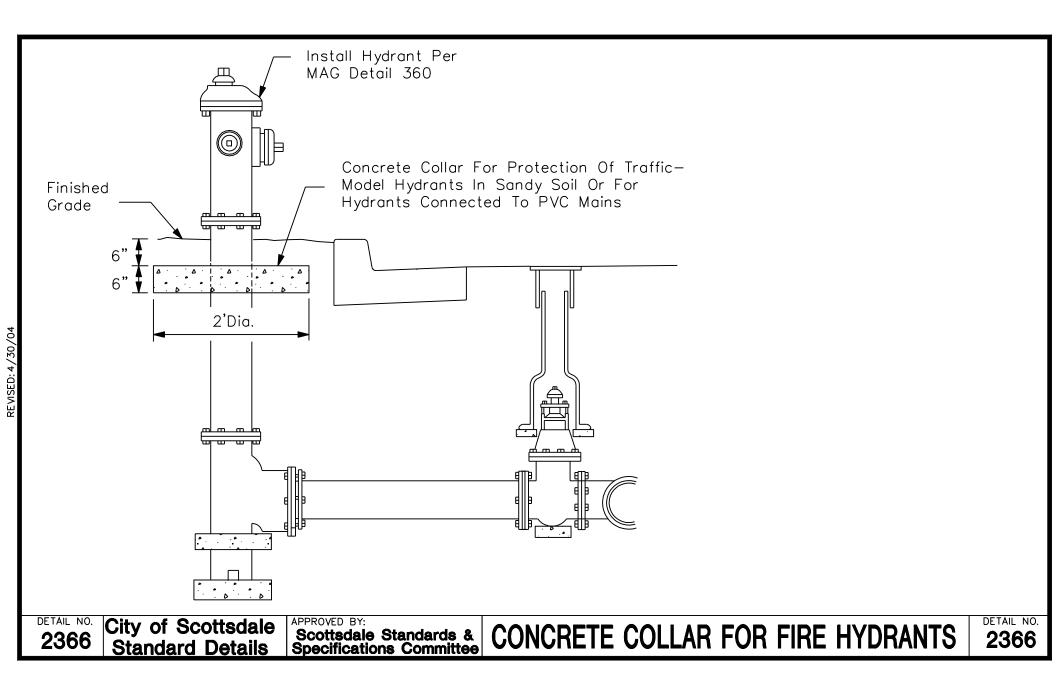
- 1. At the beginning and end of the fire lane, the sign shall have a single headed arrow pointing in the direction the regulation is in effect. The intermediate signs shall have double headed arrows pointing in both directions.
- 2. The maximum spacing of the signs shall be 100', contingent upon Traffic Engineering's review and approval.
- 3. The signs shall be set at an angle of not less than 30° nor more than 45° with the curb or line of traffic flow
- 4. The clearance to the bottom of the sign shall be 7 feet. There shall be no other signs attached to the sign or the sign pole.
- 5. The sign substrate shall be a minimum of 12" x 18" treated aluminum with a thickness of 0.080".
- 6. The sign face shall have a white, ASTM Type IV reflective background with a red screen printed or translucent acrylic EC overlay film reflective legend. Use the standard sign face number R7-32 or equivalent incorporating additional information to complete the sign as shown.

2365

Standard Details

Specifications Committee

FIRE LANE SIGN

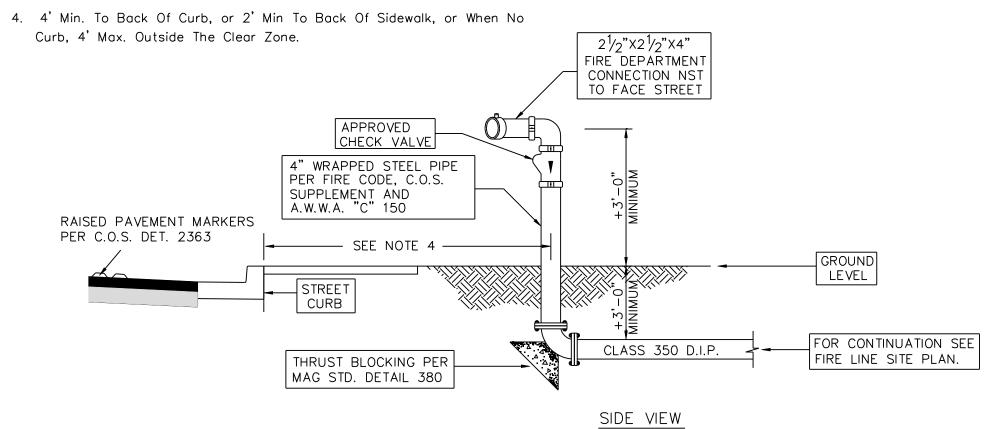


- 1. Provide Building I.D. On Remote Fire Dept. Connection.
- 2. No Trees, Bushes Or Walls Within 5' Radius Of Fire Dept. Connection
- 3. If Fire Sprinkler Design Indicates Demand Of 1000 GPM Or Greater, The Underground Fire Dept. Connection Line Shall Be Increased To 6" Diameter With A Three Way 2½" Fire Dept. Hose Connection

21/2"X21/2"X4"
FIRE DEPARTMENT CONNECTION NST

GROOVED
90' ELL

TOP VIEW

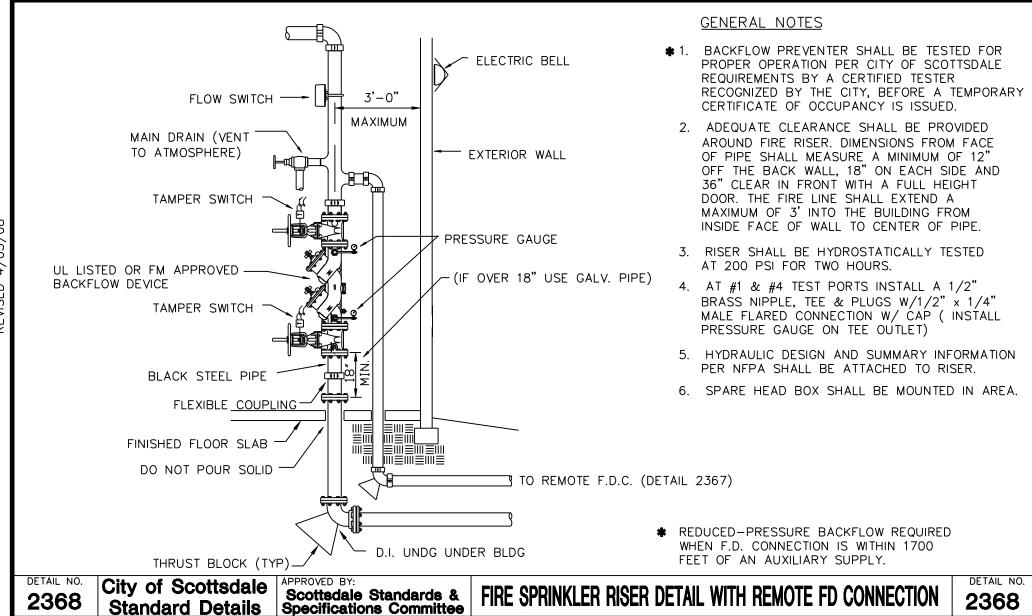


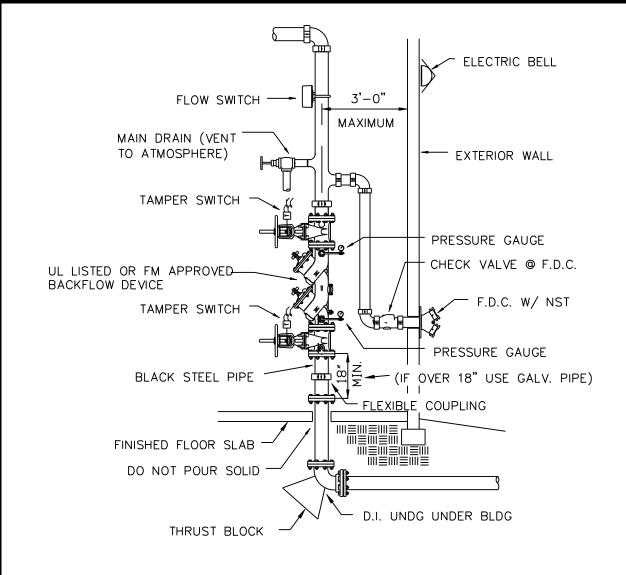
DETAIL NO. **2367**

City of Scottsdale Standard Details

APPROVED BY:
Scottsdale Standards &
Specifications Committee

REMOTE FIRE DEPARTMENT CONNECTION





- * 1. BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF SCOTTSDALE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY, BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.
 - 2. ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND FIRE RISER, DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 3' INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.
 - 3. RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.
 - 4. AT #1 & #4 TEST PORTS INSTALL A 1/2" BRASS NIPPLE, TEE & PLUGS W/1/2" x 1/4" MALE FLARED CONNECTION W/ CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET)
 - 5. HYDRAULIC DESIGN AND SUMMARY INFORMATION PER NFPA SHALL BE ATTACHED TO RISER.
 - 6. SPARE HEAD BOX SHALL BE MOUNTED IN AREA.

* REDUCED-PRESSURE BACKFLOW REQUIRED WHEN F.D. CONNECTION IS WITHIN 1700 FEET OF AN AUXILIARY SUPPLY.

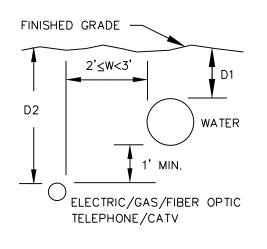
DETAIL NO. 2369 City of Scottsdale **Standard Details**

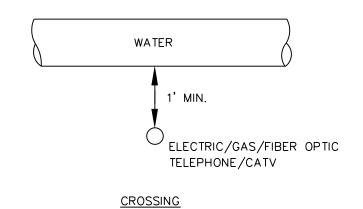
APPROVED BY:

Specifications Committee

Scottsdale Standards & FIRE SPRINKLER RISER DETAIL WITH WALLMOUNT FD CONNECTION

DETAIL NO.



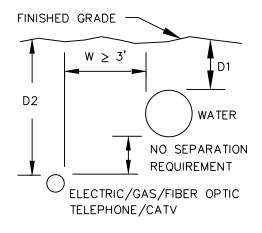


LEGEND:

D1 = $\begin{cases} 3' \text{ Min. for pipe} < 12" \text{ dia.} \\ 4' \text{ Min. for pipe} = 12" \text{ dia.} \\ 5' \text{ Min. for pipe} > 12" \text{ dia.} \end{cases}$

D2 = Minimum Cover

W = Horizontal Separation



NOTES:

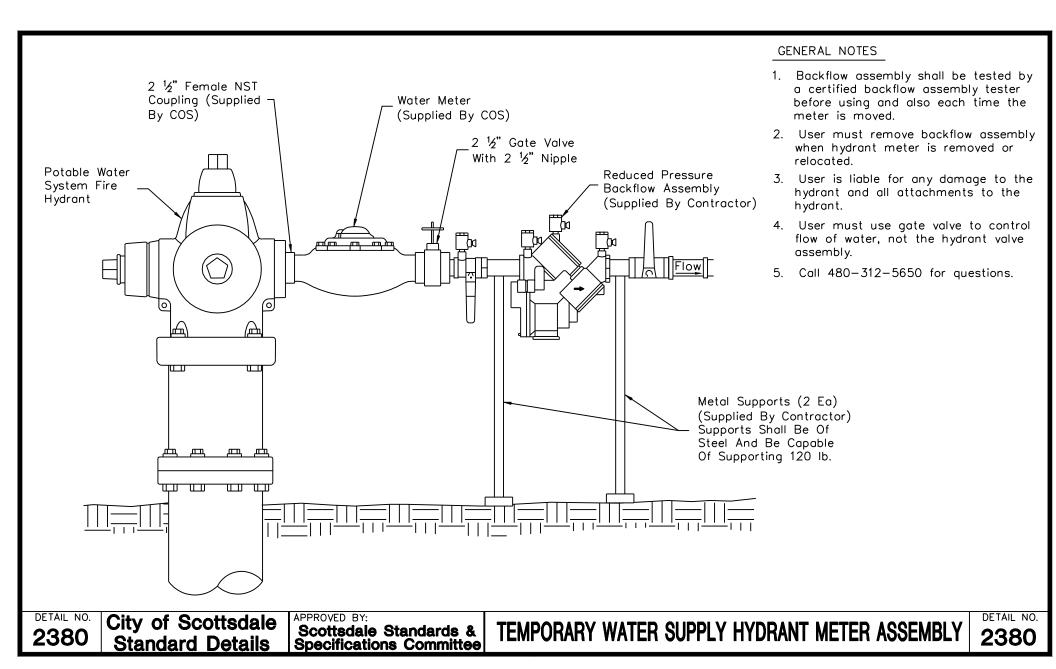
- Electric separation requirements are for primary electric conductors only.
 For service conductors see plans.
- Primary electric, gas, telephone, cable TV or fiber optic lines shall not cross above a water line without written approval from the City's Water Resources Department.
 If this approval is obtained, a utility locator strip and ABC slurry conforming to COS Specifications Sec. 601.3.6 are required.

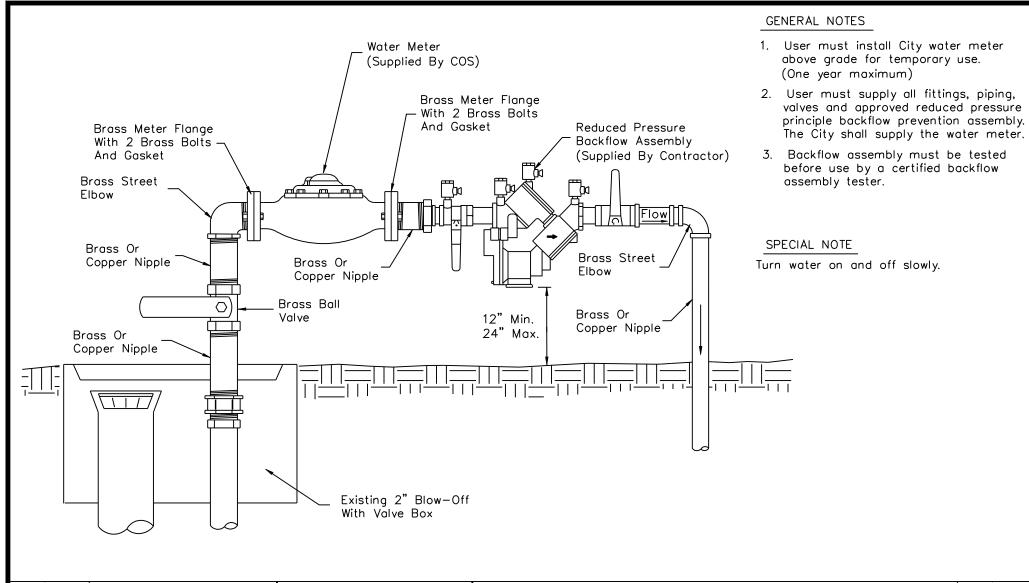
DETAIL NO. **2372**

City of Scottsdale Standard Details APPROVED BY:

Scottsdale Standards & Specifications Committee

MINIMUM UTILITY
SEPARATION REQUIREMENTS



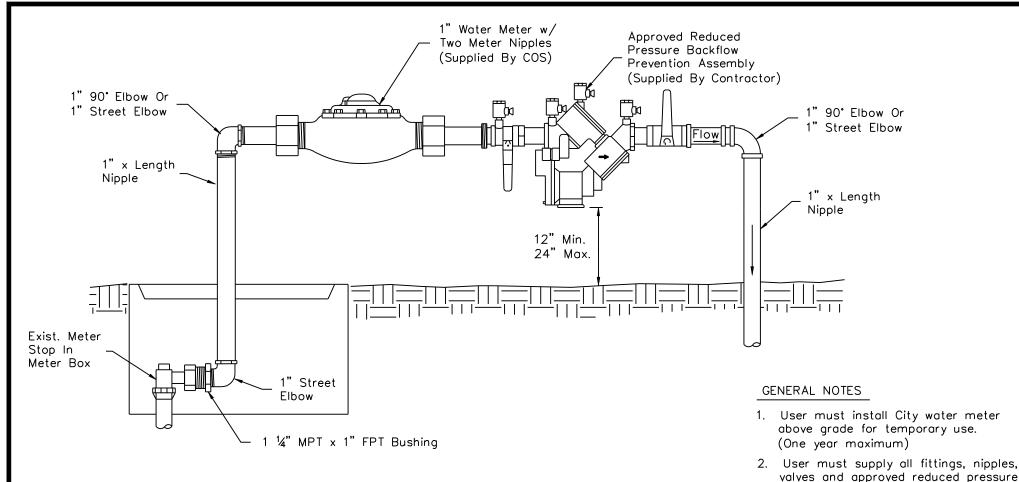


City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

TEMPORARY BLOW-OFF FOR WATER SUPPLY



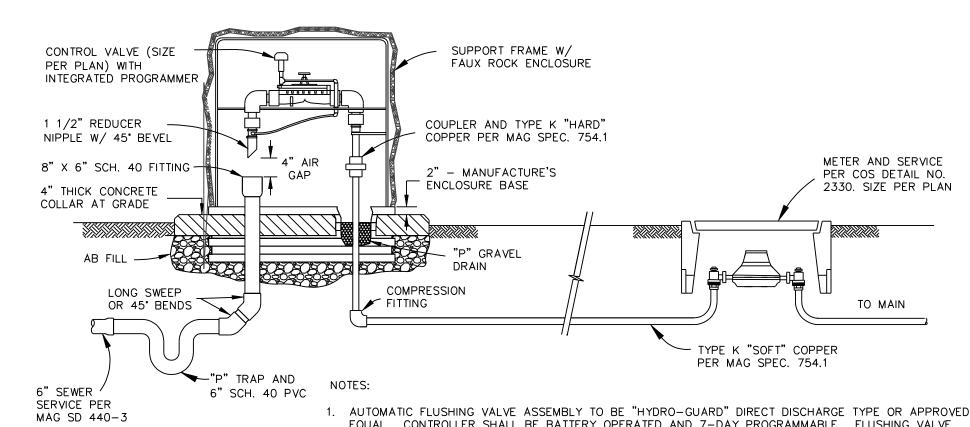
- 1. User must install City water meter
- valves and approved reduced pressure principle backflow prevention assembly. All fittings and nipples must be brass. The City shall supply the water meter.
- 3. Backflow assembly must be tested before use by a certified backflow assembly tester.

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & **Specifications Committee** TEMPORARY WATER SERVICE

DETAIL NO.



- AUTOMATIC FLUSHING VALVE ASSEMBLY TO BE "HYDRO-GUARD" DIRECT DISCHARGE TYPE OR APPROVED EQUAL. CONTROLLER SHALL BE BATTERY OPERATED AND 7-DAY PROGRAMMABLE. FLUSHING VALVE SHALL BE CORROSION RESISTANT AND RATED BETWEEN 20 AND 150-PSI OPERATING PRESSURE. VALVE, CONTROLLER, AND BATTERY PACK SHALL REMAIN DRY AT ALL TIMES.
- 2. ALL MOUNTING BRACKETS AND HARDWARE SHALL BE STAINLESS STEEL.
- 3. FAUX ROCK ENCLOSURE SHALL BE MANUFACTURED BY CHANNEL, OR AN APPROVED EQUAL, COLORED TO BE CONSISTENT WITH ONSITE NATIVE MATERIAL, AND SECURED BY AN INTEGRATED LOCKING DEVICE.
- 4. DRAINAGE SHALL BE DIRECTED AWAY FROM THE ASSEMBLY.

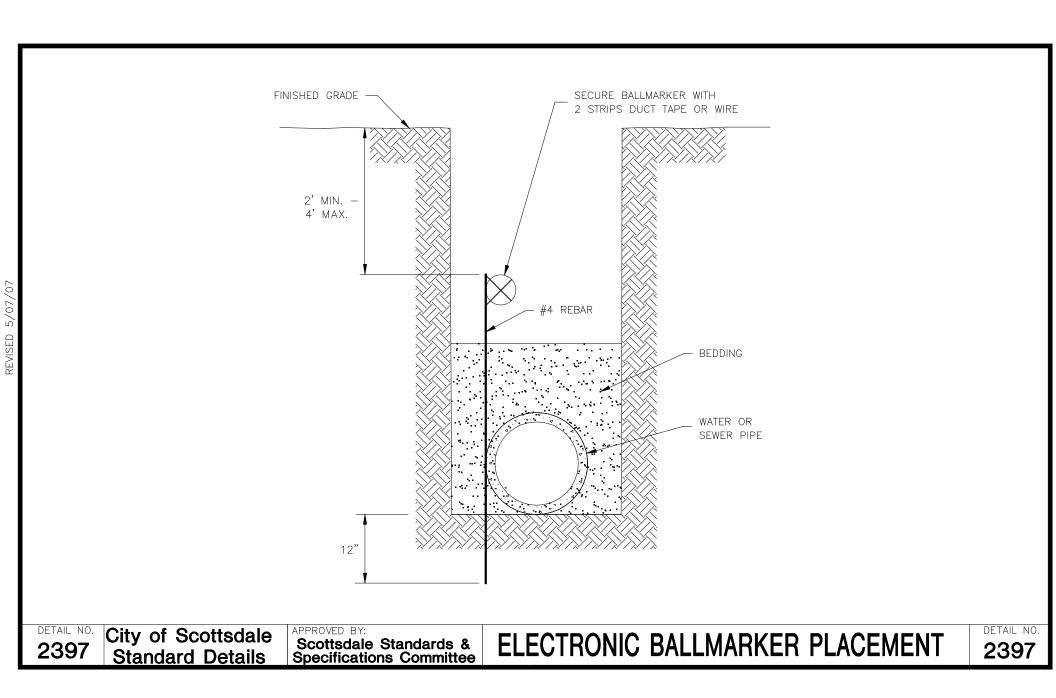
City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

WATER LINE FLUSHING ASSEMBLY

DETAIL NO.



Specifications Committee

1. Upon completion and acceptance of bacterial testing, the corp stop shall be shut off. The copper riser shall be disconnected and removed. The corp stop shall remain closed in place.

2399

City of Scottsdale Standard Details

APPROVED BY:

Scottsdale Standards & Specifications Committee

TEMPORARY TAP FOR CHLORINE INJECTION