

CITY OF LATHROP

Department of Public Works

DESIGN & CONSTRUCTION

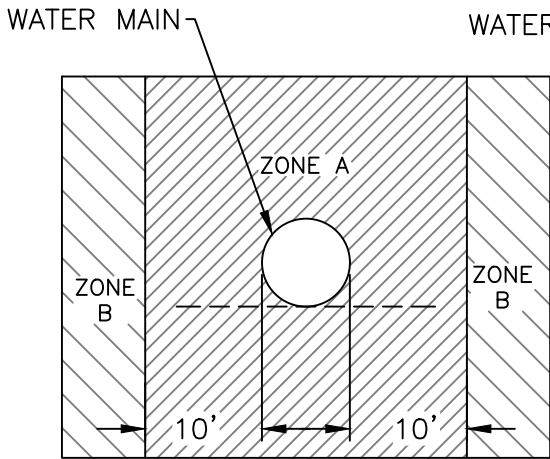
Standard Details



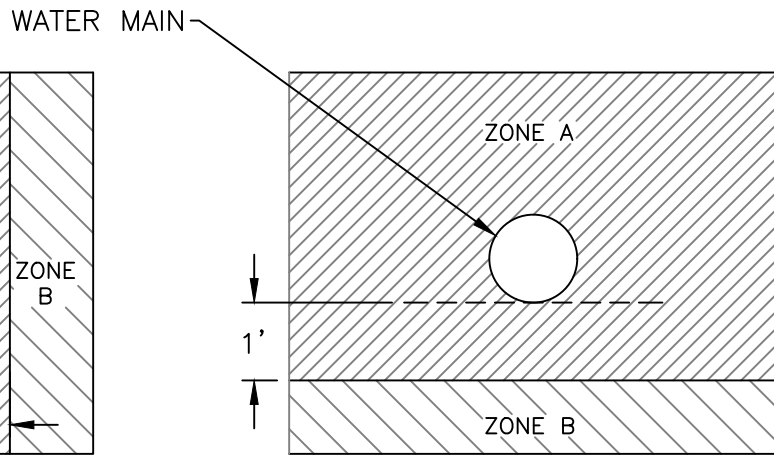
February 2022

Water

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PARALLEL CONSTRUCTION

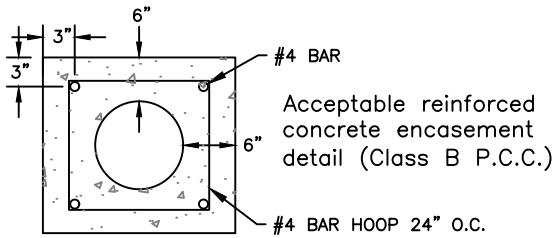


PERPENDICULAR CONSTRUCTION

NOTE: DIMENSIONS ARE FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER. ALL CROSSINGS SHALL BE 90° WHERE POSSIBLE.

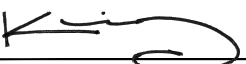
ZONE A: Sewer lines will not be permitted in this zone without the approval from the State Water Resources Control Board.

ZONE B: Sewer lines per City Standards are allowed in this zone.



NOT TO SCALE

Approved by:



City Of Lathrop
Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**WATER-SEWER
SEPARATION STANDARDS**

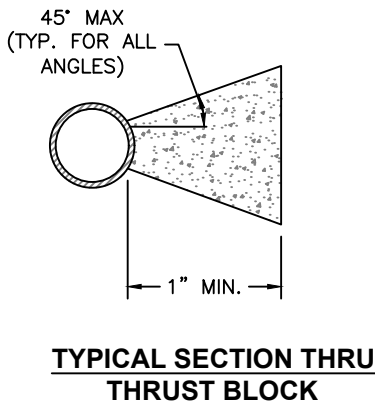
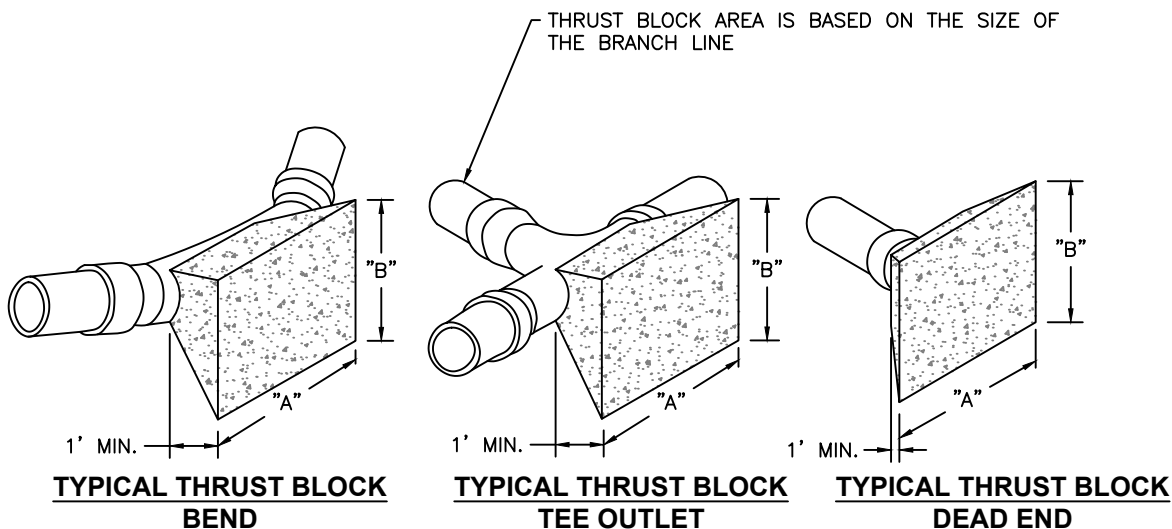


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-1



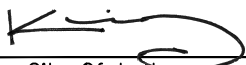
NOTES:

1. All thrust blocks shall be poured against undisturbed soil.
2. Restraint system for vertical pipe bends shall be approved by the City Engineer.
3. Thrust restraint systems for pipes larger than 12" shall be designed on a case by case basis and shall be approved by the City Engineer.
4. Concrete shall be 3,000 PSI.
5. No concrete shall be placed within 4 inches of flanged, bolted joints.

THRUST BLOCK AREA REQUIRED		
FITTINGS	ALLOWABLE SOIL BEARING 1000 LBS. PER SQ. FT.	
	"A"	"B"
6" LINE OR SMALLER		
22 1/2°	1'-6"	1'-6"
45°	2'-0"	2'-0"
90°	3'-0"	2'-6"
TEE OUTLET	2'-6"	2'-0"
DEAD END	2'-6"	2'-0"
8" LINE		
22 1/2°	2'-0"	2'-0"
45°	3'-0"	2'-6"
90°	4'-0"	3'-0"
TEE OUTLET	3'-0"	3'-0"
DEAD END	3'-0"	3'-0"
10" LINE		
22 1/2°	3'-0"	2'-0"
45°	3'-6"	3'-0"
90°	5'-0"	4'-0"
TEE OUTLET	4'-0"	3'-6"
DEAD END	4'-0"	3'-6"
12" LINE		
22 1/2°	3'-0"	3'-0"
45°	4'-0"	4'-0"
90°	7'-0"	4'-0"
TEE OUTLET	5'-0"	4'-0"
DEAD END	5'-0"	4'-0"

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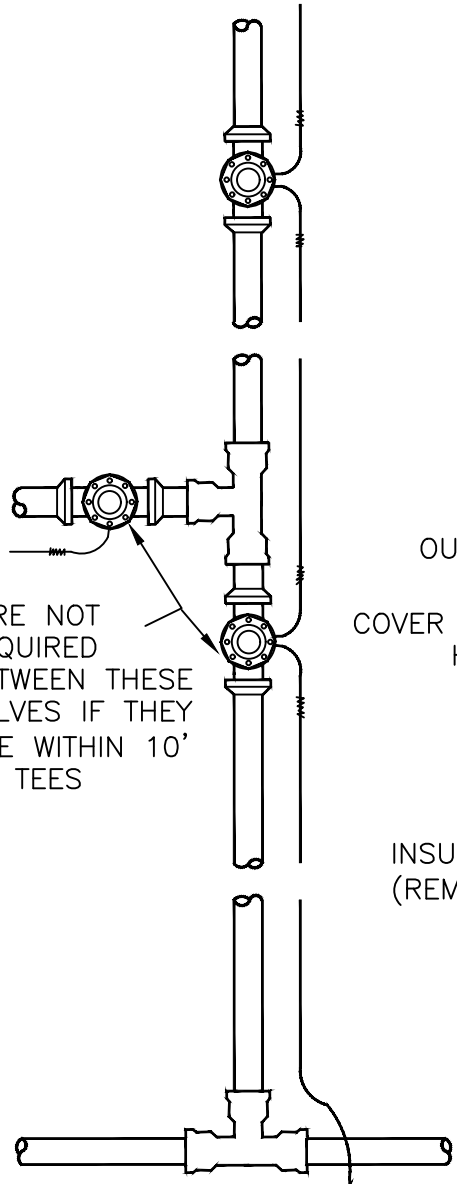
**STANDARD
DETAIL**

THRUST BLOCK CHART

Date: **FEBRUARY 2022**

Drawing No:

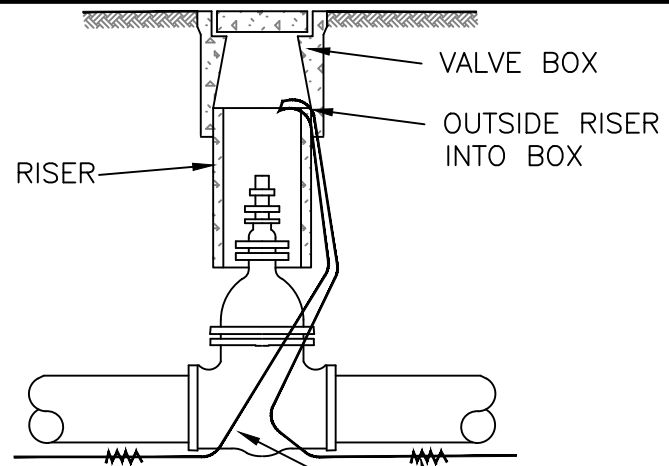
W-2



WIRE NOT REQUIRED BETWEEN THESE VALVES IF THEY ARE WITHIN 10' OF TEES

SPLICE RUNS TOGETHER KEEP CLEAR OF FITTING

TYPICAL LAYOUT

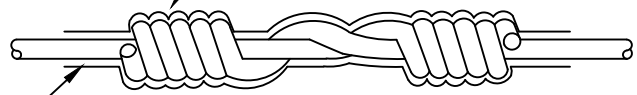


#10 AWG, SINGLE STRAND, SOFT DRAWN COPPER WIRE; 4/64" POLYVINYL CHLORIDE INSULATION OUTSIDE OF VALVE RISER AND INTO THE VALVE BOX

SEE DETAIL BELOW

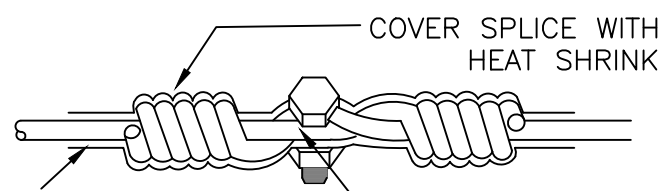
VALVE DETAIL

COVER SPLICE WITH HEAT SHRINK



INSULATED INTO BOX (REMOVE AT SPLICE)

SPLICE DETAIL 1



COVER SPLICE WITH HEAT SHRINK

INSULATED INTO BOX (REMOVE AT SPLICE)

SPLIT BOLT TO BE COPPER

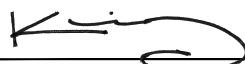
SPLICE DETAIL 2

NOTES:

1. Wire to be continuous between valve boxes, except as noted.
2. Bare wire not to touch metal valves or fittings.
3. Locating wire to be laid at top of pipe.
4. Provide access box for tracer wire where no valves located within 250'.
5. Continuity test to be required on all tracer wires before acceptance.

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**LOCATOR WIRE
INSTALLATION**

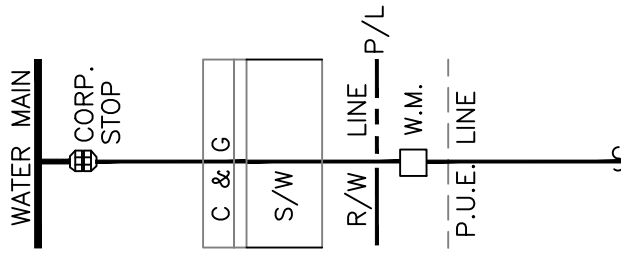


**STANDARD
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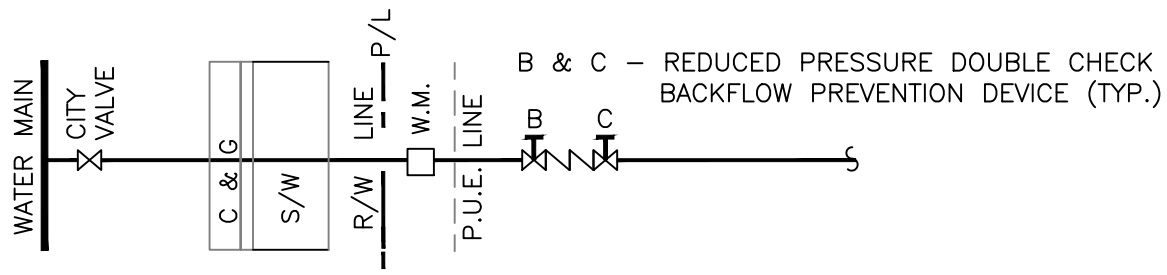
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Drawing No:

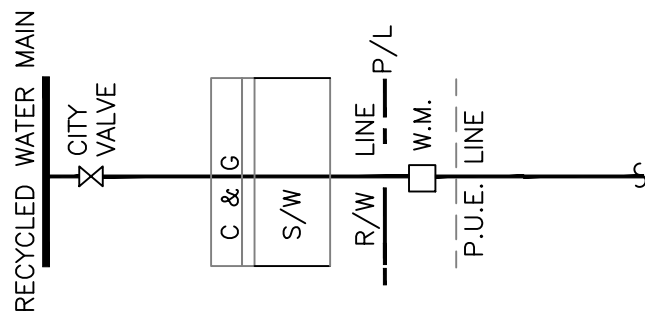
W-3



RESIDENTIAL WATER TURNOUTS



COMMERCIAL, INDUSTRIAL, OR IRRIGATION WATER TURNOUTS



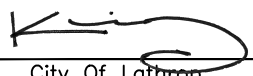
RECYCLED WATER TURNOUTS

NOTE:

1. Backflow prevention device shall be FEBCO Model 860 or equal.
2. Meter shall be placed in streetright-of-way if there is no public utility easement (P.U.E).
3. Recycled water turnouts shall have proper signage, identification painting, and markings as required by the Recycled Water System Standards.
4. Backflows shall be painted as follow: potable water – blue, irrigation – green.

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Public Works Director

No	Revised	Date

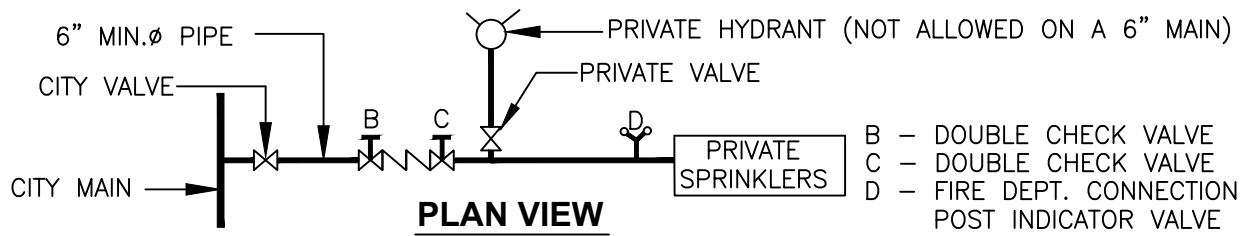
CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

WATER AND RECYCLED WATER TURNOUTS

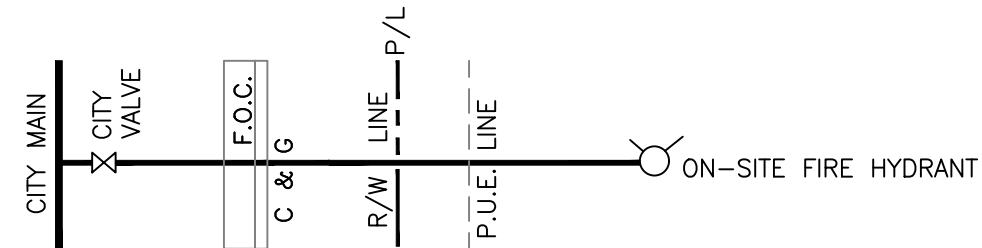


**STANDARD
DETAIL**

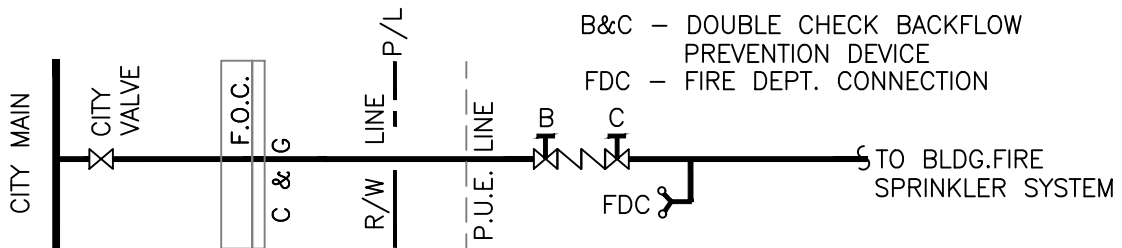
Date: **JANUARY 2021**
Drawing No:
W-4



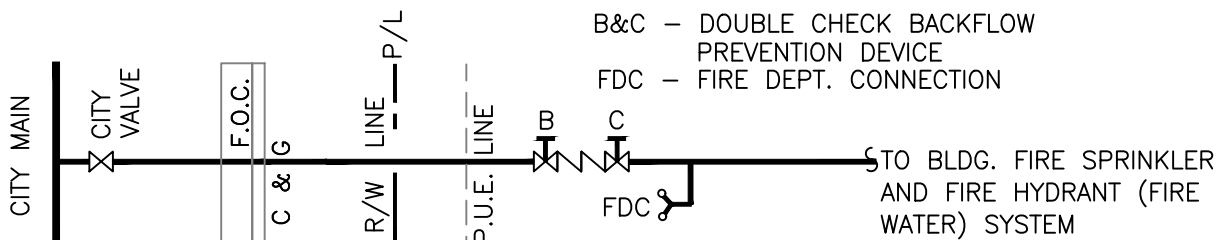
PLAN VIEW
SINGLE CONNECTION TO MAIN



ON-SITE FIRE HYDRANT
FIRE WATER LINE



ON-SITE BLDG
FIRE SPRINKLER SYSTEM LINE



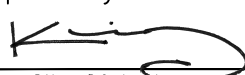
DUAL ON-SITE
FIRE HYDRANT AND
BLDG. FIRE SPRINKLER SYSTEM

NOTES:

1. All backflow prevention devices shall be double check valve with no reduced pressure.
2. Check City approved backflow preventor list for approved brands and models.

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Public Works Director

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

FIRE SERVICE

SCHEMATIC DIAGRAMS

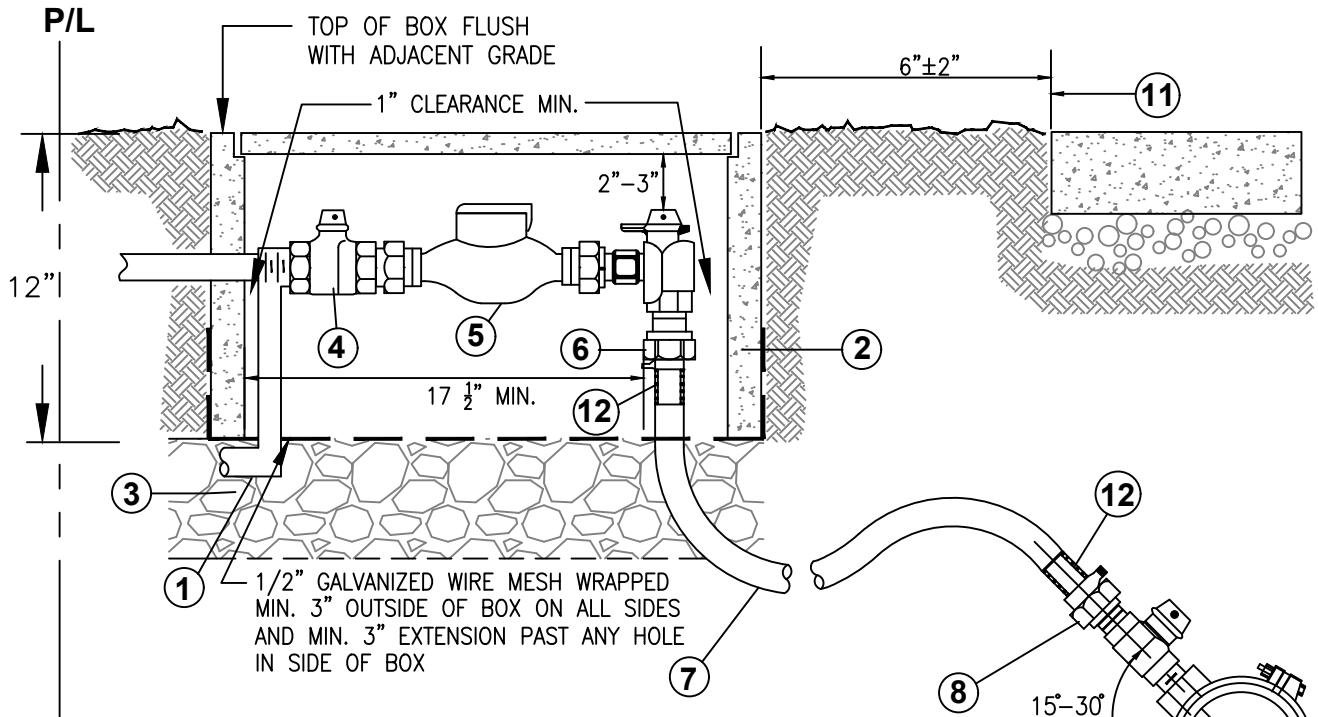


STANDARD
DETAIL

Date: **FEBRUARY 2022**

Drawing No:

W-5



DRAWING DETAILS:

1. 2 foot, schedule 80 threaded PVC nipple.
2. Meter box shall be manufactured by Christy with fibrelite lid or approved equal (see chart for type). Cleanouts and meters shall not be located in driveways. In cases where meters are approved in vehicle paths, meter box shall be equivalent Christy traffic rated box or approved equal.
3. 3/4" clean crushed rock, 1 foot deep and flush with bottom of meter box.
4. Meter stop, full port ball valve only (with handle).
5. Meters shall be per latest standard specifications. Meters shall be furnished by city's maintenance division at owner's cost upon establishment of water account for lot serviced. Install 7 1/2" spacer for (5/8" x 3/4") meter, 10 3/4" spacer for (1") meter during initial construction. 5/8" holes shall be drilled in spacer.
6. Angle meter stop, full port ball valve only, lockable.
7. Polyethylene service line. See construction drawings for sizing, 1-1/2" min (typ.).
8. Corporation stop (Ford F-600 or approved equal).
9. Bronze or brass service saddle required for PVC mains, direct taps are not acceptable for ductile iron.
10. Water or recycled water main.
11. Back of city sidewalk.
12. Stainless steel stiffeners.

NOTES:

1. Service pipe to be continuous (no joints) between main and angle meter stop unless approved by city engineer.
2. The location of the service saddle shall be a min of 24" from another service saddle, bell, spigot, or other fitting.
3. Meter box may be placed adjacent to property or easement line with prior approval of the city engineer.
4. Place #10 gauge solid soft drawn copper wire along service line with accessibility from meter box.
5. Tap to water main shall be made by the city approved contractor at owner's cost.
6. Commercial/industrial service installation will be approved on case by case basis.
7. For meters larger than 1", meter box and lid shall be submitted to city for review.

METER BOX AND LID TYPE		
METER	BOX	LID
1"	B-16	FL16D
1 1/2"	B-30	FL30D

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City Of Lathrop
Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
RESIDENTIAL SERVICE INSTALLATIONS



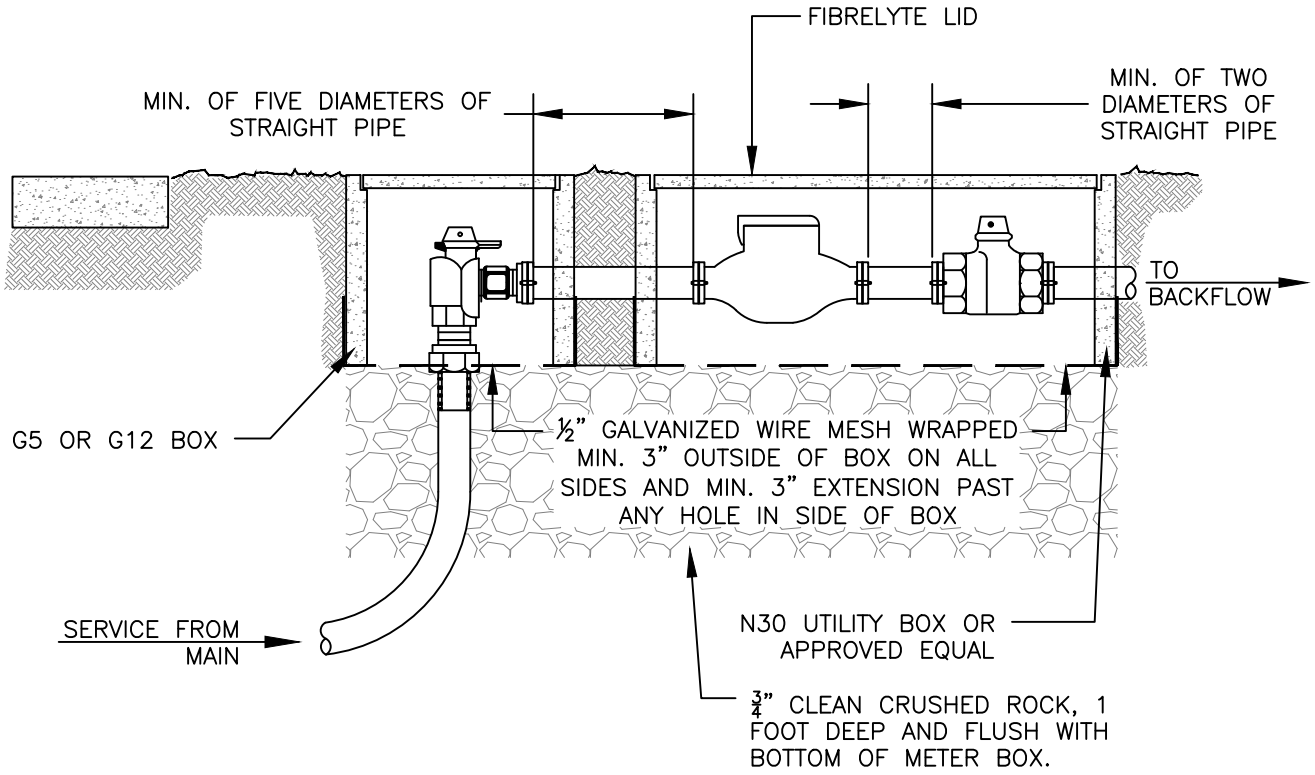
**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-6

REFER TO NOTES ON STANDARD DETAIL W-6



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[Signature]

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Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
**COMMERCIAL AND INDUSTRIAL
SERVICE INSTALLATION**
1 1/2 INCH TO 2 INCH

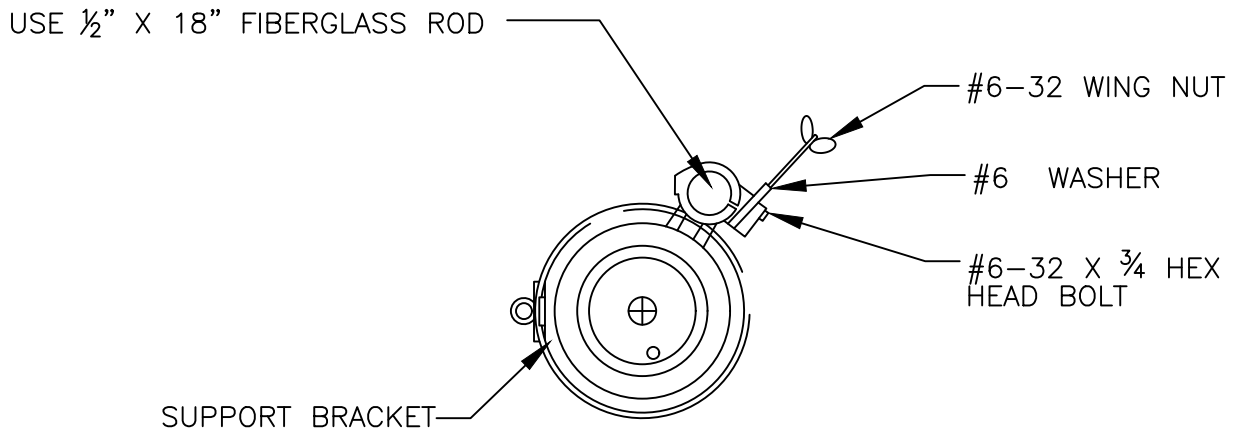


**STANDARD
DETAIL**

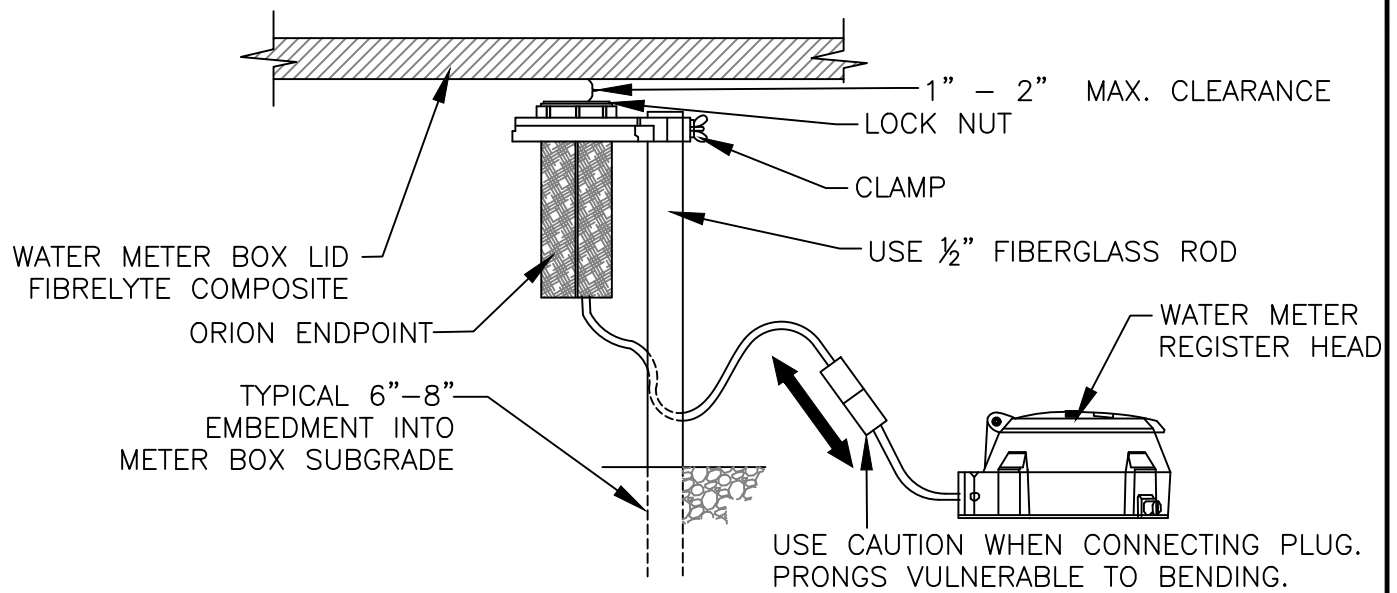
Date: FEBRUARY 2022

Drawing No:

W-7



PIT SUPPORT BRACKET (KNUCKLES) - TOP VIEW



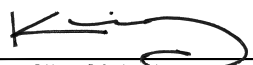
PIT ORION BENEATH LID INSTALLATION - SIDE VIEW

Installation of ORION ENDPOINT below a meter pit lid.

1. Drive rod into the ground prior to attaching the endpoint to avoid damage.
2. Once in the ground, secure the mounting bracket on the rod using the enclosed washer, wing nut and hex head bolt provided with bracket.
3. Insert the endpoint through the bottom of the bracket and thread the lock nut onto the top of the endpoint. Mount the endpoint a maximum of one to two inches below the underside of the lid.

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Public Works Director

No	Revised	Date

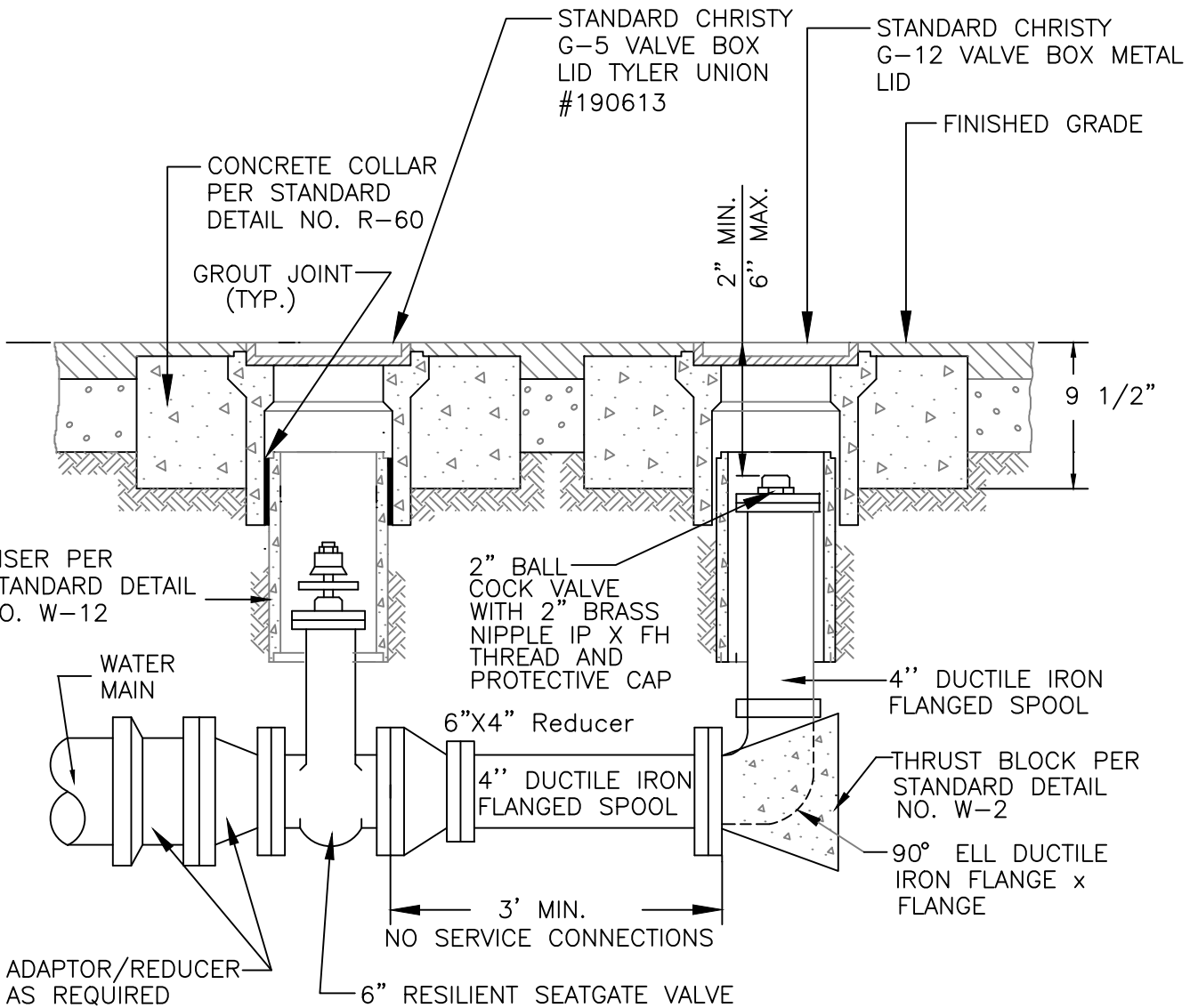
CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**REMOTE READ
END-POINT-TRANSMITTER
INSTALLATION**



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**
Drawing No:
W-8



RISER PER STANDARD DETAIL NO. W-12

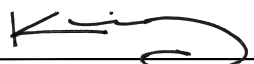
ADAPTOR/REDUCER AS REQUIRED

NOTES:

1. Blow-off shall be used at all dead end lines except for cul-de-sacs.
2. No concrete or other obstruction within 4" of flanges.
3. Valve stem extension shall be used to comply with 5' max. distance from grade to nut.
4. Trace wire shall be used.
5. Blow-off shall be installed 5' from face of curb unless alternative location is approved by City Engineer.
6. All joints to be wrapped with 10 mil. PVC and tape.
7. Temporary blow-off allowed with approval of City Engineer.
8. All bolts must be stainless steel 316.

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

WATER SYSTEM
BLOW - OFF

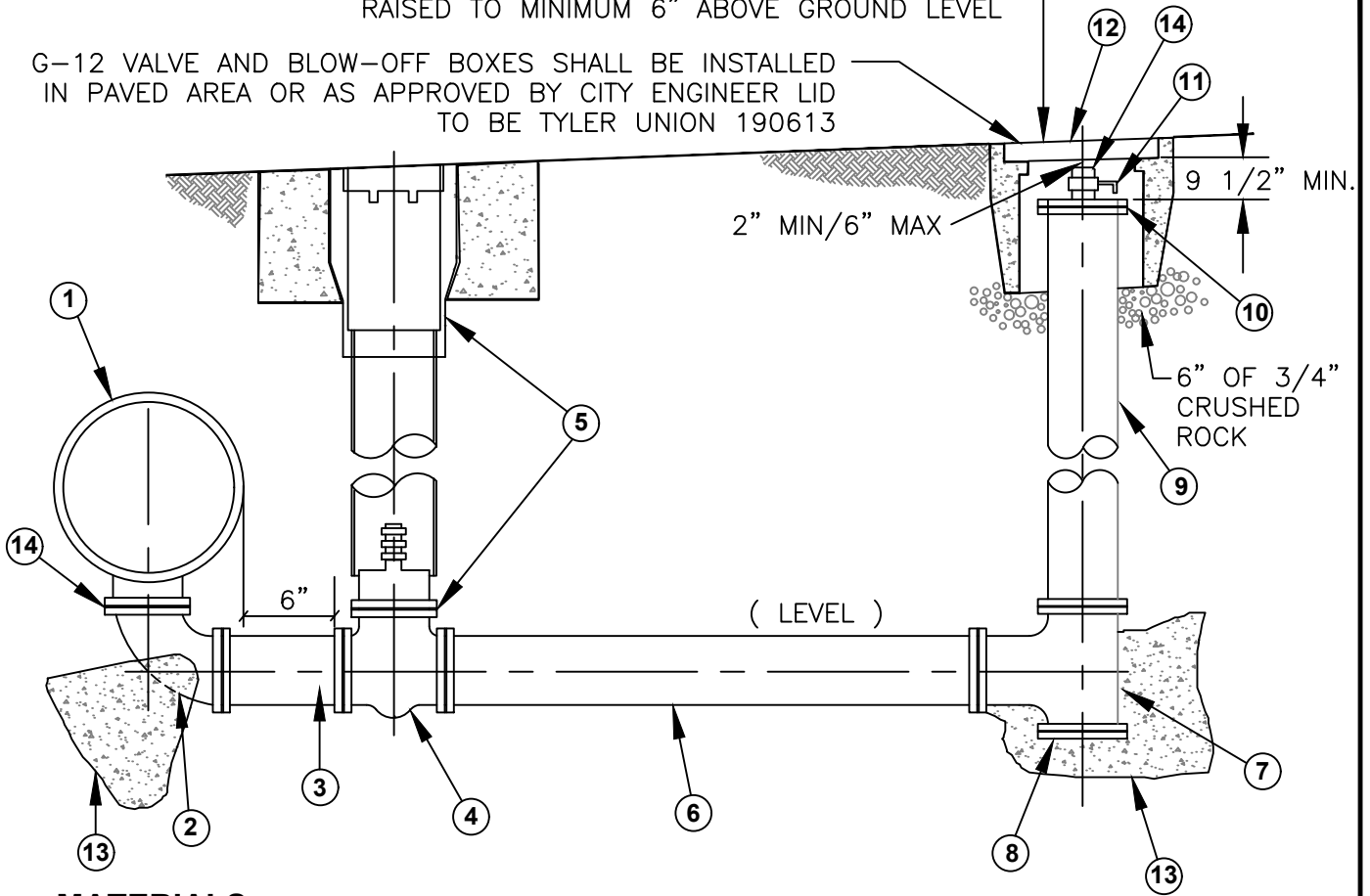


STANDARD DETAIL

Date: **FEBRUARY 2022**
Drawing No:
W-9

IN UNPAVED AREAS, TOP OF BLOW OFF VALVE SHALL BE RAISED TO MINIMUM 6" ABOVE GROUND LEVEL

G-12 VALVE AND BLOW-OFF BOXES SHALL BE INSTALLED IN PAVED AREA OR AS APPROVED BY CITY ENGINEER LID TO BE TYLER UNION 190613



MATERIALS:

- ① PIPE DIA. x 6" D.I. TEE, FLANGED
- ② 6" D.I. 90° ELL, FLG.x FLG.
- ③ 6" x AS REQ'D D.I. SPOOL
- ④ 6" RESILENT SEAT GATE VALVE, FLG.x FLG.
- ⑤ VALVE AND VALVE BOX INSTALLATION PER STANDARD DETAIL NO. W-12
- ⑥ 6" x AS REQ'D FLG. x FLG. D.I. PIPE
- ⑦ 6" x 6" D.I. TEE FLG. x FLG. x FLG.
- ⑧ 6" D.I. BLIND FLANGE
- ⑨ 6" x AS REQ'D D.I. PIPE
- ⑩ 6" BLIND FLANGE WITH 2" TAP
- ⑪ 2" BRASS NIPPLE AND 2" BALL VALVE, I.P. THREAD
- ⑫ VALVE BOX PER STANDARD DETAIL NO. W-12 WITH CAST IRON TRAFFIC LIDS
- ⑬ THRUST BLOCKS PER STANDARD DETAIL NO. W-2
- ⑭ 2" BRASS NIPPLE, I.P. THREAD x FH THREAD, WITH PROTECTIVE CAP

ABBREVIATIONS

- D.I. DUCTILE IRON
- ELL ELBOW
- FLG. FLANGE
- I.P. INTERNAL PIPE
- F.H. FIRE HOSE

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Public Works Director

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
WATER SYSTEM
BLOW - OFF
6" LINE DRAIN ASSEMBLY

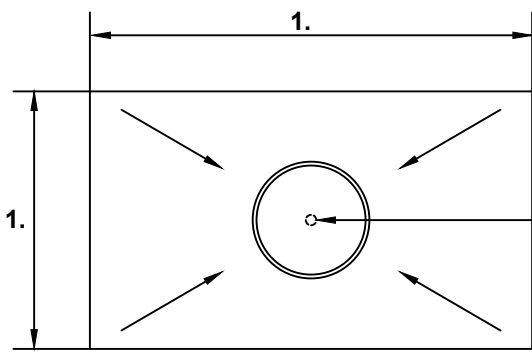


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-10

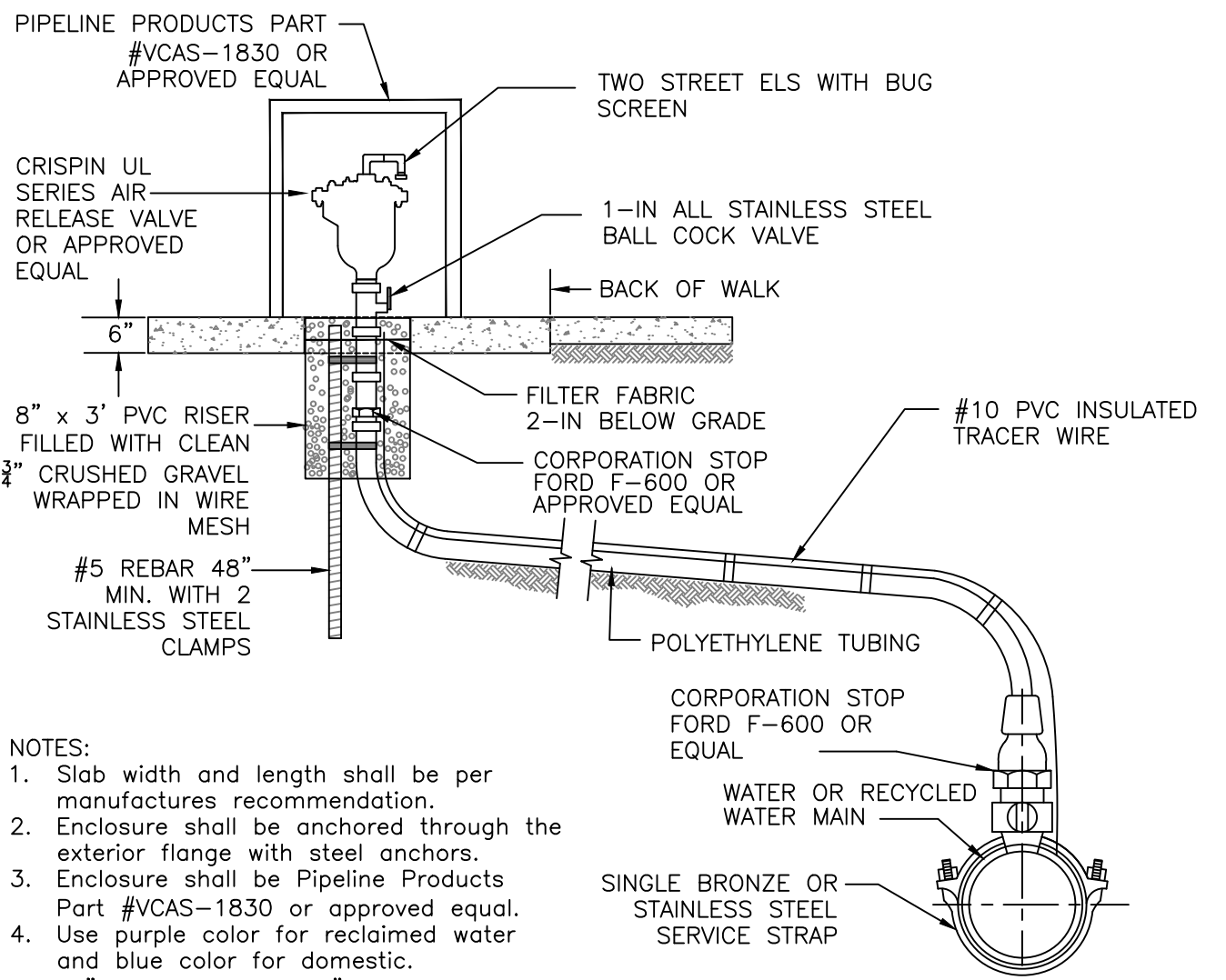


ENCLOSURE DETAILS:

1. FOR POTABLE WATER USE BLUE: PART # VCAS-1830-BL
2. FOR RECYCLED WATER USE PURPLE: PART # VCAS-1830-PR
3. FOR SEWER USE GREEN: PART #VCAS-1830-GR

SLOPE
CONCRETE
TOWARDS
DRAIN
RISER

SLAB SHALL BE 6-IN THICK

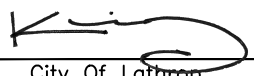


NOTES:

1. Slab width and length shall be per manufactures recommendation.
2. Enclosure shall be anchored through the exterior flange with steel anchors.
3. Enclosure shall be Pipeline Products Part #VCAS-1830 or approved equal.
4. Use purple color for reclaimed water and blue color for domestic.
5. 12" and above, use 2" service and ARV

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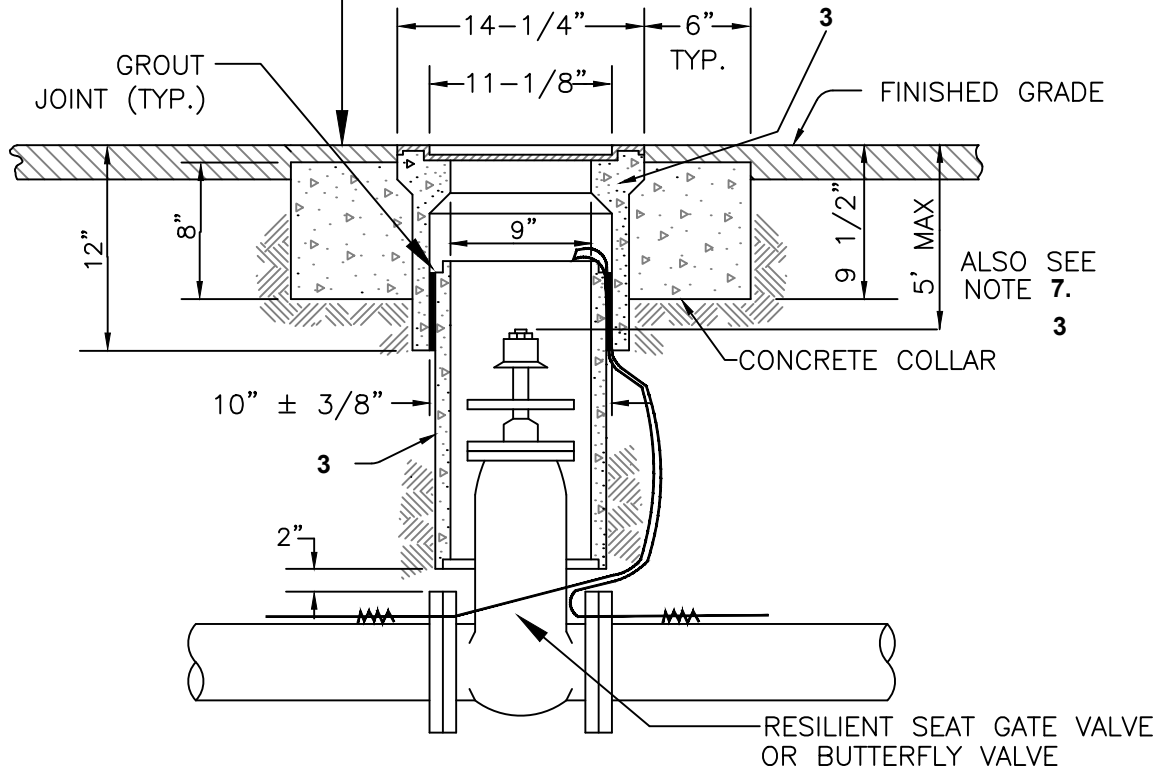
**DOMESTIC AND RECLAIMED
AIR RELEASE VALVE**



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**
Drawing No:
W-11

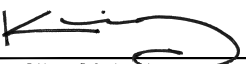
ADJUST BOX TO GRADE PER CITY
STANDARD DETAIL NO. R-60.



NOTES:

1. Valve box shall be Christy no. G5 or equal as approved by the city engineer. Lid shall be Tyler Union #190613.
2. All lids shall be machined seating surface cast iron. Recycled water valve box lids to be heavy-duty, triangular in shape, and colored purple (Pantone 512) with language shown on standard detail No. R-61
3. Valve box riser to be one continuous piece and centered on valve unless otherwise approved by City Engineer. Shall be 8" ϕ , class 150 PVC (use C900) purple for lake fill, non-potable water, recycled water and blue only for potable water. See note 4.
4. Alternative valve box and risers may be used where approved by the City Engineer.
5. Concrete collar not required when valve box is located in concrete sidewalk area.
6. Valve operator extension shall be required when valve nut is deeper than 6' from finish grade, refer to standard detail no W-13.
7. Trace wire shall be used, refer to standard detail No. W-3.
8. Resilient seat gate valves shall comply with AWWA Standard W509. Butterfly valves shall comply with AWWA Standard C504.
9. Tracer wire must be tested for continuity.

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 City Of Lathrop Public Works Director		
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DEPARTMENT OF PUBLIC WORKS

VALVE BOX

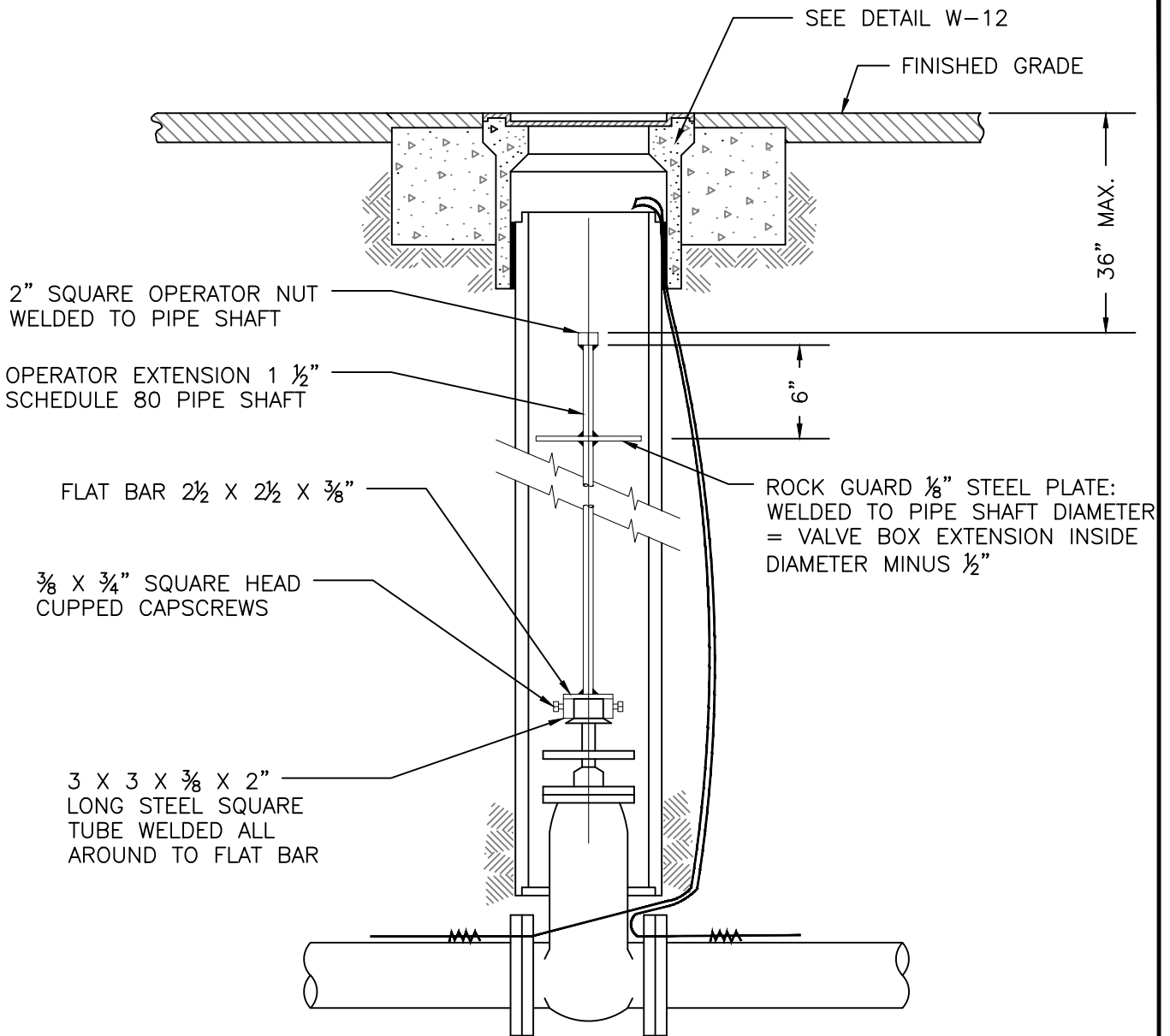


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

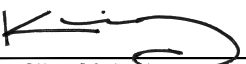
W-12



NOTES:

1. Operator extension required when valve nut is deeper than 6' from grade.
2. Center valve box on axis of operator nut
3. Welds shall be minimum 1/4" all around.
4. Hot dip galvanize operator extension after fabrication.

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**VALVE OPERATOR
EXTENSION**

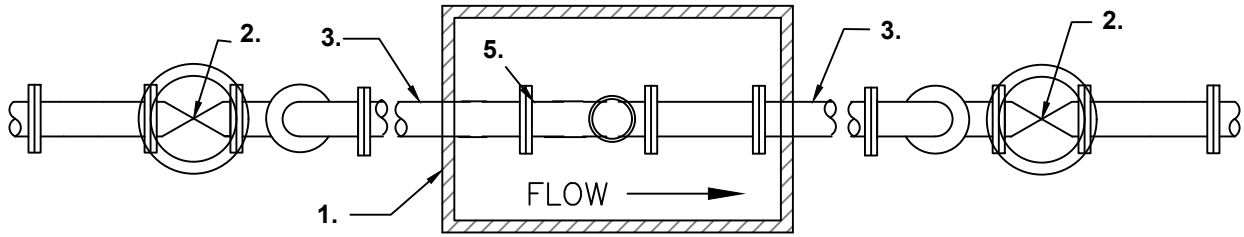


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-13

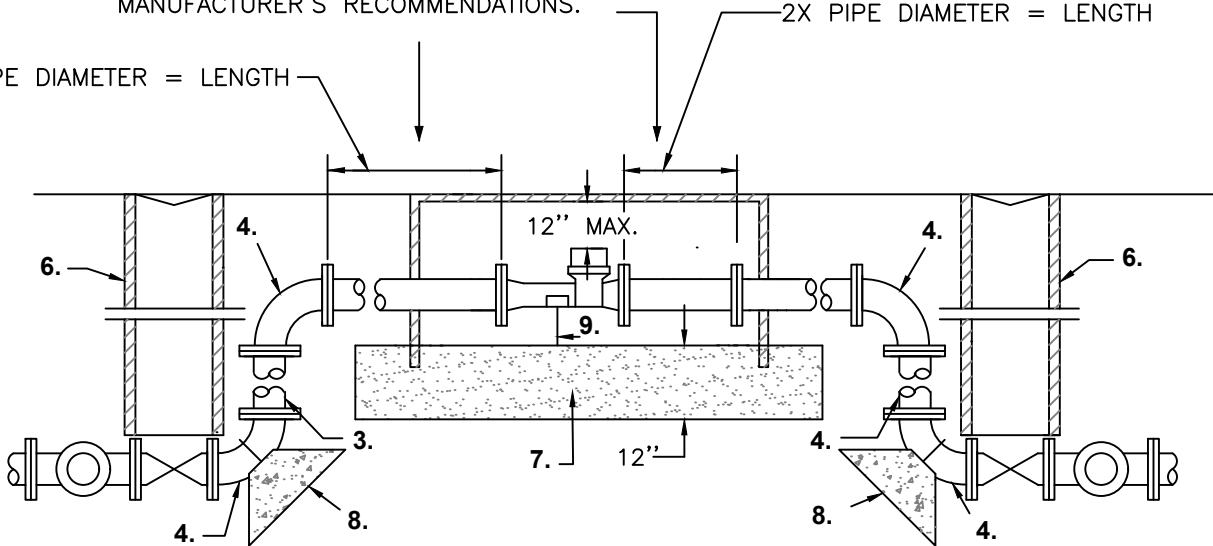


PLAN

MINIMUM PIPE DIAMETER AS PER
MANUFACTURER'S RECOMMENDATIONS.

5X PIPE DIAMETER = LENGTH

2X PIPE DIAMETER = LENGTH



NOTES:

- 1. SEE COMPONENTS LIST AND NOTES ON W-14A

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Public Works Director

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CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

**LAYOUT FOR 3" OR
LARGER METER**



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-14

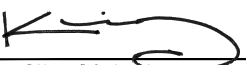
COMPONENTS FOR 3" OR LARGER METER INSTALLATIONS

1. SIZE OF METER VAULT SHALL BE DETERMINED BY METER SIZE AND SHALL PROVIDE SUFFICIENT SPACE TO OPERATE WRENCHES ON ASSEMBLY BOLTS. WHEN METER VAULT IS PLACED IN A VEHICULAR AREA, BOTH VAULT AND LID SHALL BE H20 TRAFFIC RATED AND ENDPOINT TRANSMITTER SHALL BE INSTALLED IN A SEPARATE VALVE BOX WITH FIBERLYTE COMPOSITE LID IN A NON-VEHICULAR AREA. USE ¾" SCH. 40 PVC CONDUIT (WITH A MINIMUM COVER OF 18") FOR WIRE SPLICE IN WATER METER BOX USING BADGER 308 CONNECTOR. ENDPOINT TRANSMITTER VALVE BOX LOCATION SHALL BE APPROVED BY THE CITY ENGINEER.
2. GATE VALVE – PER CITY STANDARD.
3. CLASS 125 DUCTILE IRON PIPE SPOOL.
4. CLASS 125 DUCTILE IRON PIPE 90° LONG RADIUS ELBOW.
5. METER AS SPECIFIED BY CITY.
6. VALVE BOX PER CITY STANDARD DETAIL NO. W-12.
7. 3/8" MAXIMUM GRAVEL BASE. 12" MINIMUM DEPTH.
8. THRUST BLOCKS – CITY STANDARD DETAIL NO. W-2.
9. METER AND PIPE SUPPORTS AS REQUIRED.

NOTES:

- A. DETAILED DRAWING WILL BE REQUIRED AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
- B. CONTRACTOR TO CONSULT WITH CITY'S SPECIFICATIONS FOR APPROPRIATE METERS, VALVES AND APPURTENANCES.
- C. USE STAINLESS STEEL 316 BOLTS WITH ANTI-SEIZE ON THE THREADS.
- D. BURIED METAL/VALVE ASSEMBLIES TO BE WRAPPED IN PLASTIC.

NOT TO SCALE

Approved by:		
		
City Of Lathrop Public Works Director		
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

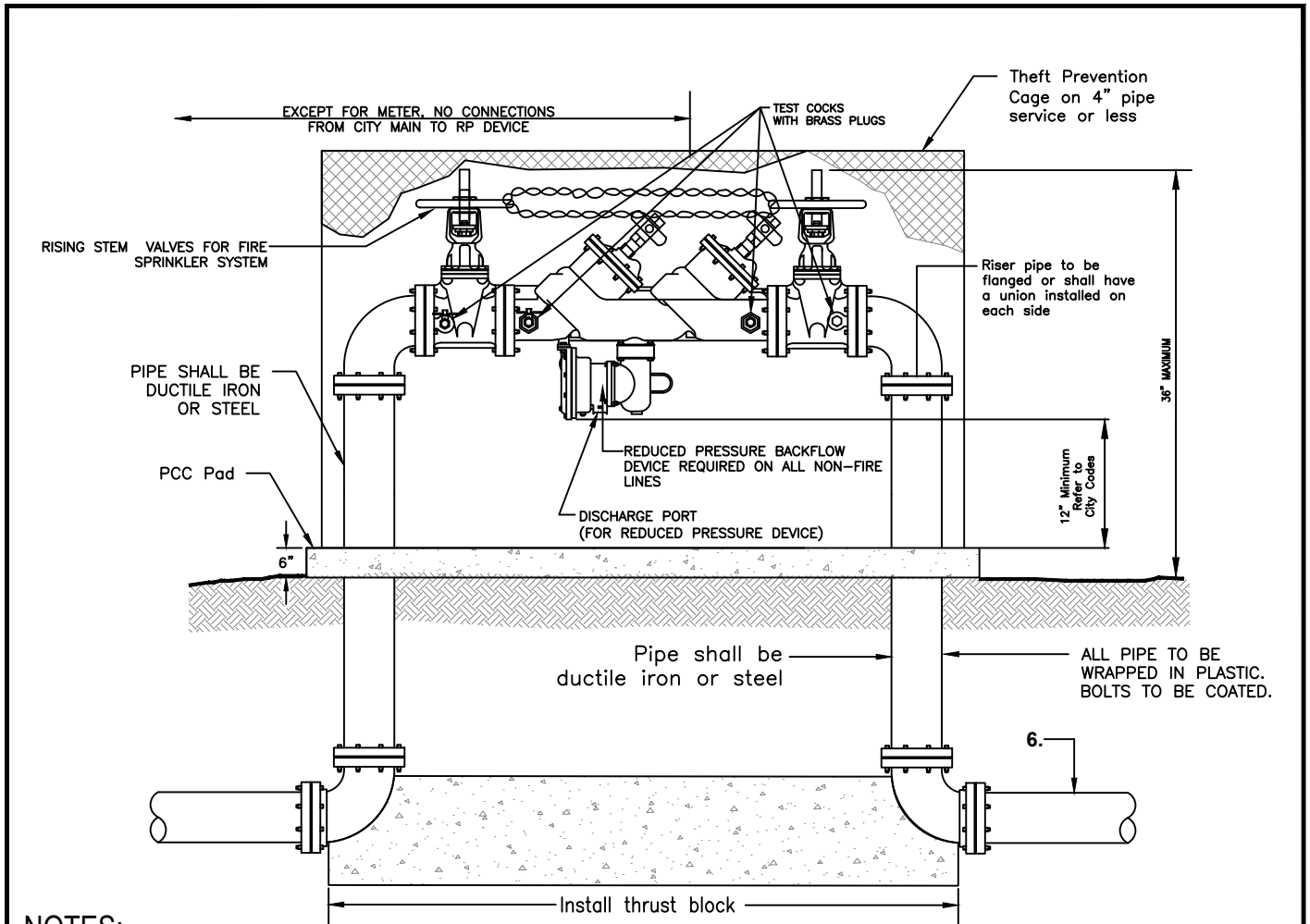
**LAYOUT FOR 3" OR
LARGER METER NOTES**



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:
W-14A

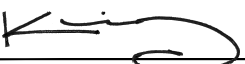


NOTES:

1. Installed device shall be Febco Model LF 860 large diameter or approved equal.
2. Device shall be installed above ground.
3. Test cocks and shut-off valves must be supplied and installed as shown.
4. Discharge port must be kept clear of obstruction at all times, 12 inch min.
5. Any deviation from the installation shown above must receive prior approval.
6. All piping and appurtenances shall be AWWA rated 150 psi.
7. Thrust blocks per Standard Detail No. W-2.
8. Insulation required to prevent freezing of exposed pipe shall be Polar Blanket or approved equal.
9. Valves shall be chain with a breakaway lock in an open position at all times.
10. All assemblies must be tested by a certified backflow prevention tester.
11. Installed device shall be painted medium blue for domestic, forest green for landscape, and screened with landscaping unless otherwise approved by City Engineer.
12. All underground ductile iron or steel pipe must be wrapped with a minimum of 10 mil. polywrap tape.
13. All bolts shall be stainless steel 316. Never Sieze shall be used on all threads.
14. All pipes to be plastic wrapped and bolts to be coated.
14. All assemblies must be tested by a certified backflow prevention tester and reports shall be sent to backflows@ci.lathrop.ca.us
15. See standard detail W-20 for temporary backflow preventer.

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Public Works Director

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**REDUCE PRESSURE
BACKFLOW DEVICE**

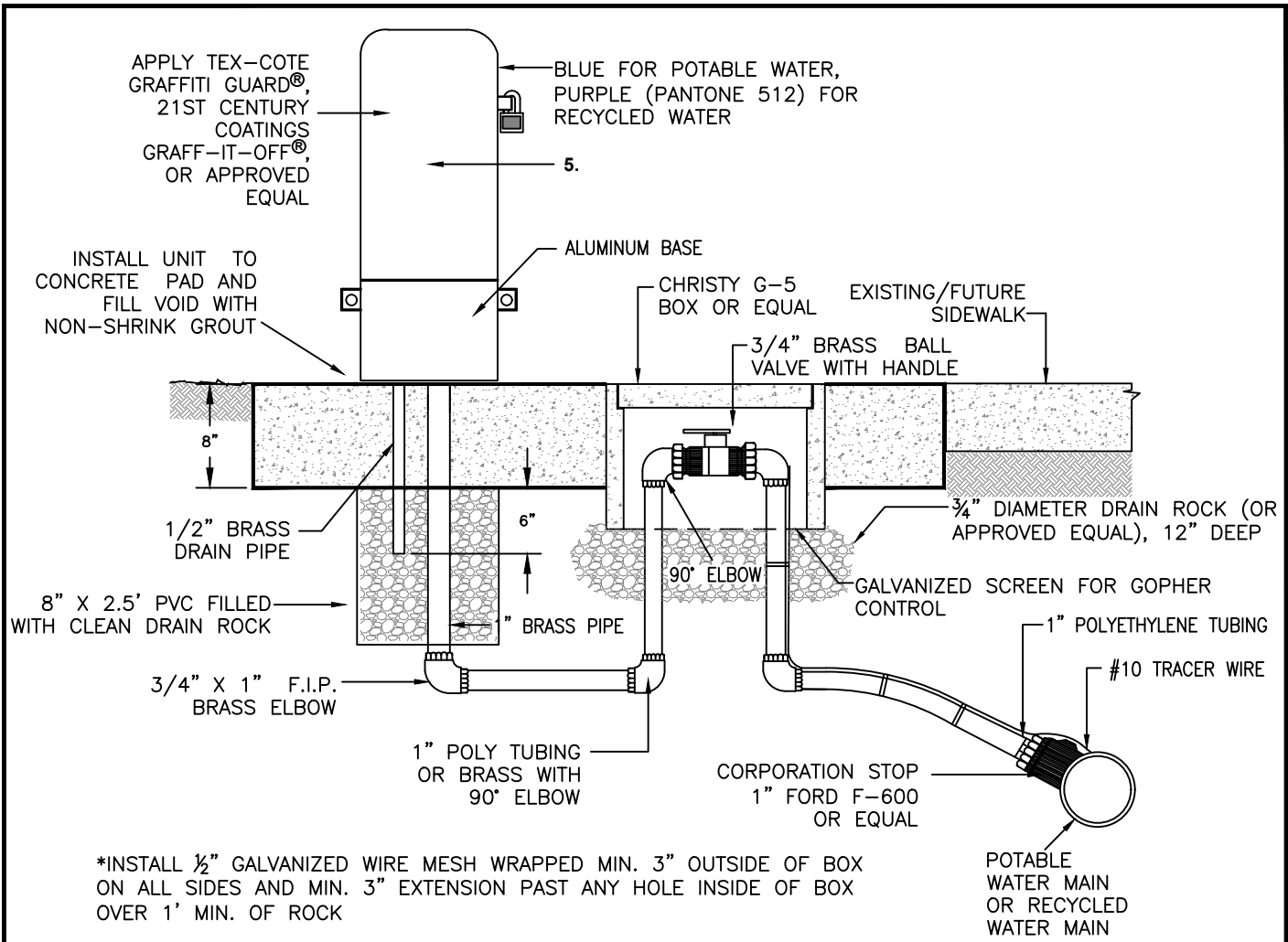


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

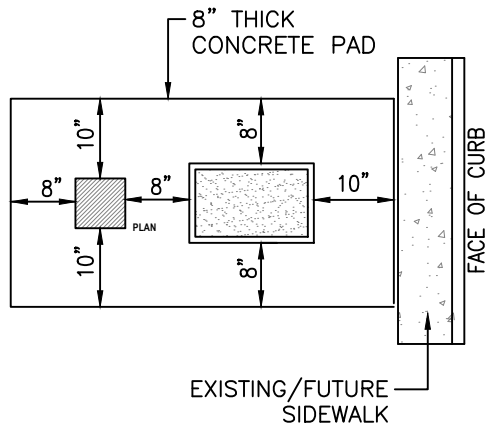
W-15



*INSTALL 1/2" GALVANIZED WIRE MESH WRAPPED MIN. 3" OUTSIDE OF BOX ON ALL SIDES AND MIN. 3" EXTENSION PAST ANY HOLE INSIDE OF BOX OVER 1' MIN. OF ROCK

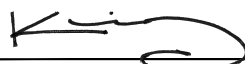
NOTES:

1. Sampling stations shall be 3' bury, with a 1" MIP inlet, and a 1" FIP discharge. A 1/4" bent-nose sampling bib shall be located before the discharge.
2. All stations shall be enclosed in a lockable, nonremovable, aluminum-cast housing.
3. When opened, the station shall require no key for operation, and the water will flow in an all brass waterway.
4. All working parts will be of brass and serviceable from above ground with no digging. A 1/2" brass drain tube shall be provided within the locking cover.
5. Eclipse #88WC or equal sampling station (See Standard Detail No. W-17).
6. All materials should be lead-free.



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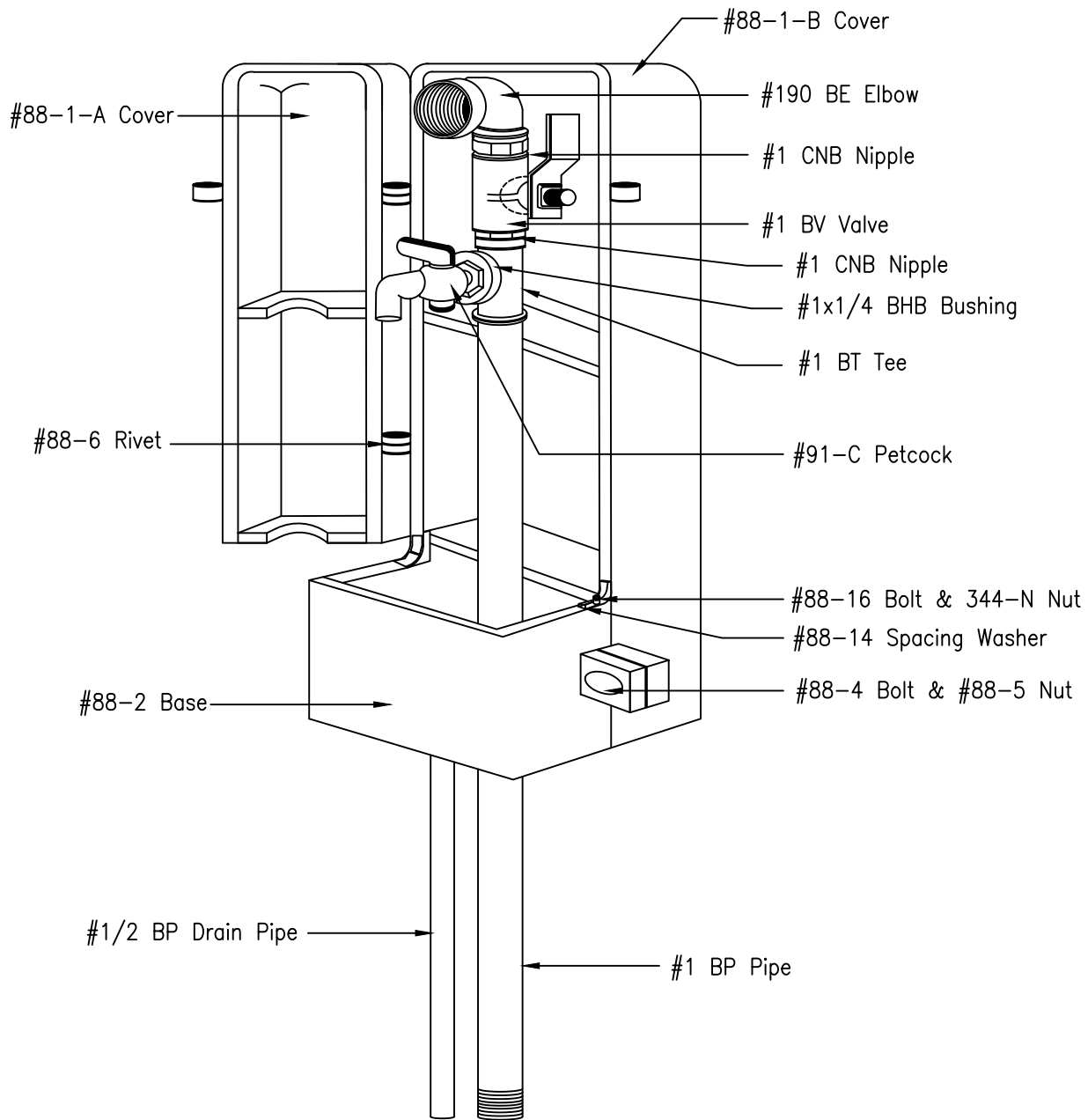
BACTERIOLOGICAL SAMPLING STATION LAYOUT



STANDARD DETAIL

Date: **FEBRUARY 2022**
Drawing No:

W-16

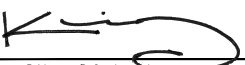


ECLIPSE # 88 WC

NOTE: The bacteriological sampling station shall be an Eclipse No. 88WC or approved equal.

NOT TO SCALE

Approved by:



City Of Lathrop
Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
BACTERIOLOGICAL SAMPLING STATION
DETAIL

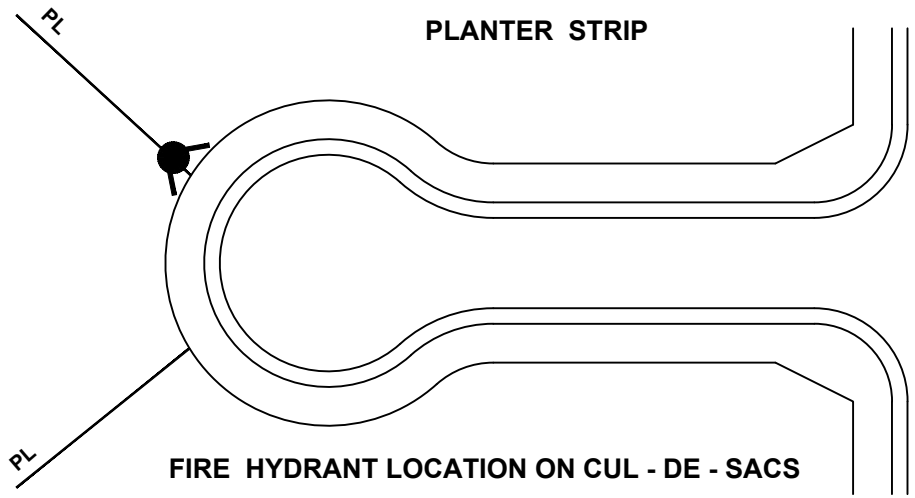
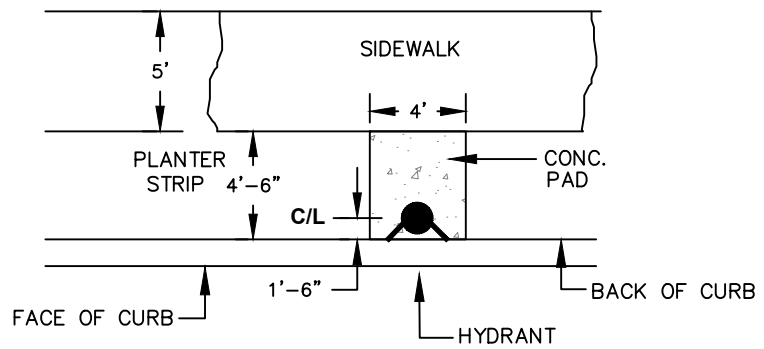
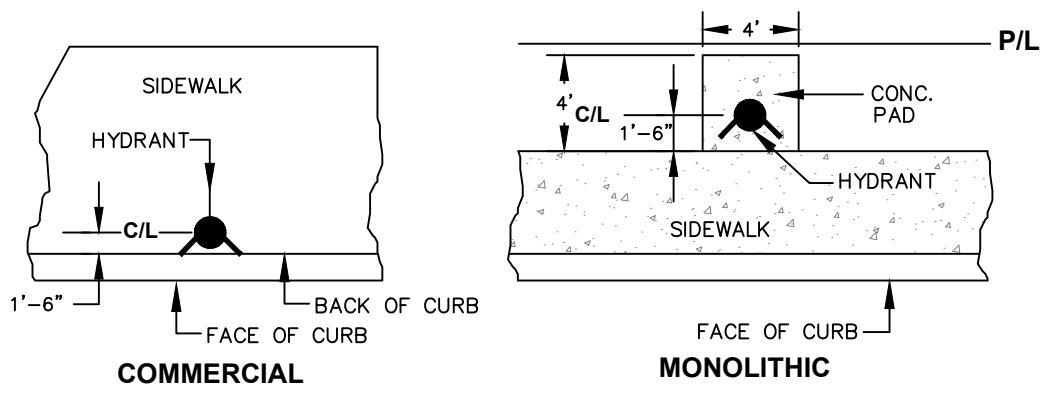


STANDARD
DETAIL

Date: **FEBRUARY 2022**

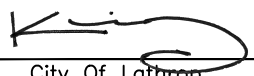
Drawing No:

W-17



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Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

FIRE HYDRANT LOCATIONS

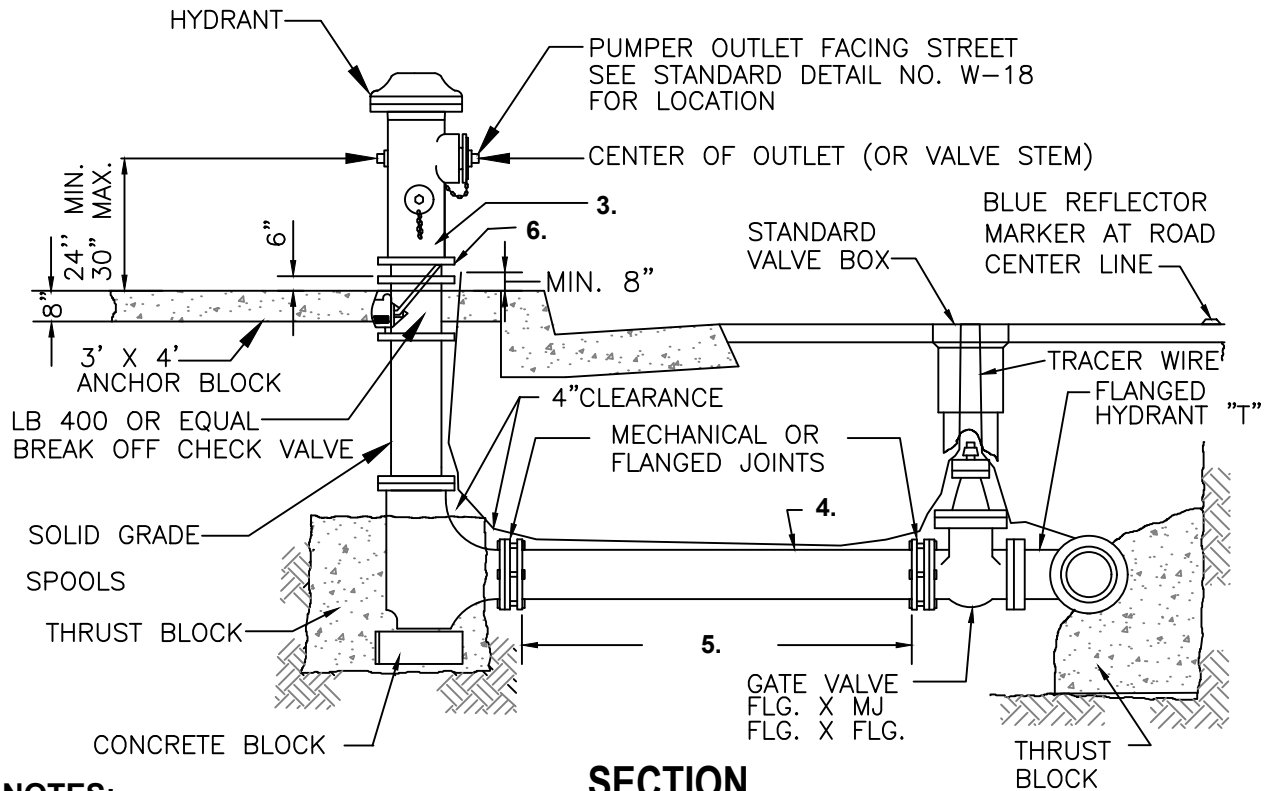


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-18



NOTES:

SECTION

1. Hydrant model to be :
 Residential – Clow 850 or equal with 1 – 4 1/2” and 1 – 2 1/2” outlet.
 Commercial/Industrial – Clow 960 or equiv. 1 – 4 1/2” and 2 – 2 1/2” outlet.
2. Hydrants shall be clean and free of concrete.
3. Entire hydrant shall be painted OSHA Safety Yellow (Hy-Lux industrial coatings or approved equal). private hydrants connected to a fire pump shall be painted red and all hydrants numbered in accordance with City of Lathrop approval. (black stencil lettering min. 2” high, upstream of face of hydrant). Hydrants connected to recycled water line shall be painted purple. Color to be Pantone 522C or approved equal.
4. 6” dia. PVC pipe (AWWA C-900 with CIP equivalent o.d.) or DIP
5. Fire hydrant laterals greater than 100 LF and shall have a second gate valve installed near the fire hydrant as approved by the fire district.
6. Break away spool with galvanized 307A or stainless steel spool bolts 6 nut to be on bottom at connection to hydrant.
7. Expansion joints in sidewalk per standard detail R-5 and R-20.
8. All thrust blocks shall be inspected and approved at the time of construction per Standard Detail W-2.
9. Hydrants shall comply with AWWA standard C503.
10. All fittings and metal pipes shall be wrapped with PVC 10 mil tape.
11. Underground bolts must be stainless steel 316 and must use Never Seize or copper coat on threads.
12. Continuity test to be required before acceptance.
13. Private fire hydrants that are connected to the fire pump loop shall be painted red. Private fire hydrants that are not connected to the fire pump loop shall be painted yellow.

NOT TO SCALE

Approved by:



City Of Lathrop
Public Works Director

No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS

FIRE HYDRANT ASSEMBLY

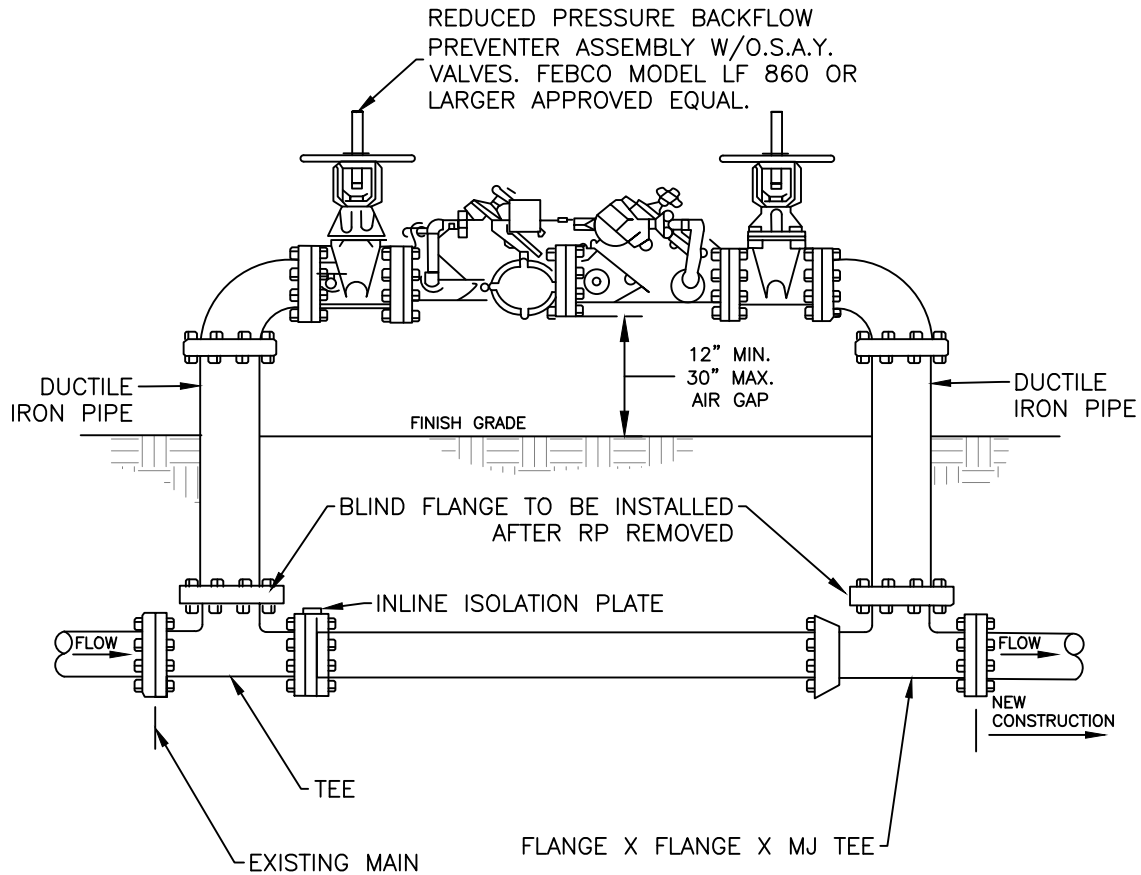


**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

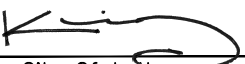
W-19



NOTES:

1. Installed device shall be FEBCO Model LF 860 large diameter or equal.
2. Any deviation from the installation shown above must receive prior approval
3. All piping and appurtenances shall be AWWA rated 200 psi for fire sprinkler systems.
4. All assemblies must be tested by a certified backflow prevention tester. Reports shall be sent to backflows@ci.lathrop.ca.us
5. All underground ductile iron or steel pipe must be wrapped with a minimum of 10 Mil. polywrap tape.
6. All flange bolts shall be never seize stainless steel 316.
7. T-bolts shall be coated with mastic.

NOT TO SCALE

Approved by:		
		
City Of Lathrop Public Works Director		
No	Revised	Date

CITY OF LATHROP
DEPARTMENT OF PUBLIC WORKS
**TEMPORARY BACKFLOW
PREVENTION ASSEMBLY
FOR 3" OR LARGER**



**STANDARD
DETAIL**

Date: **FEBRUARY 2022**

Drawing No:

W-20