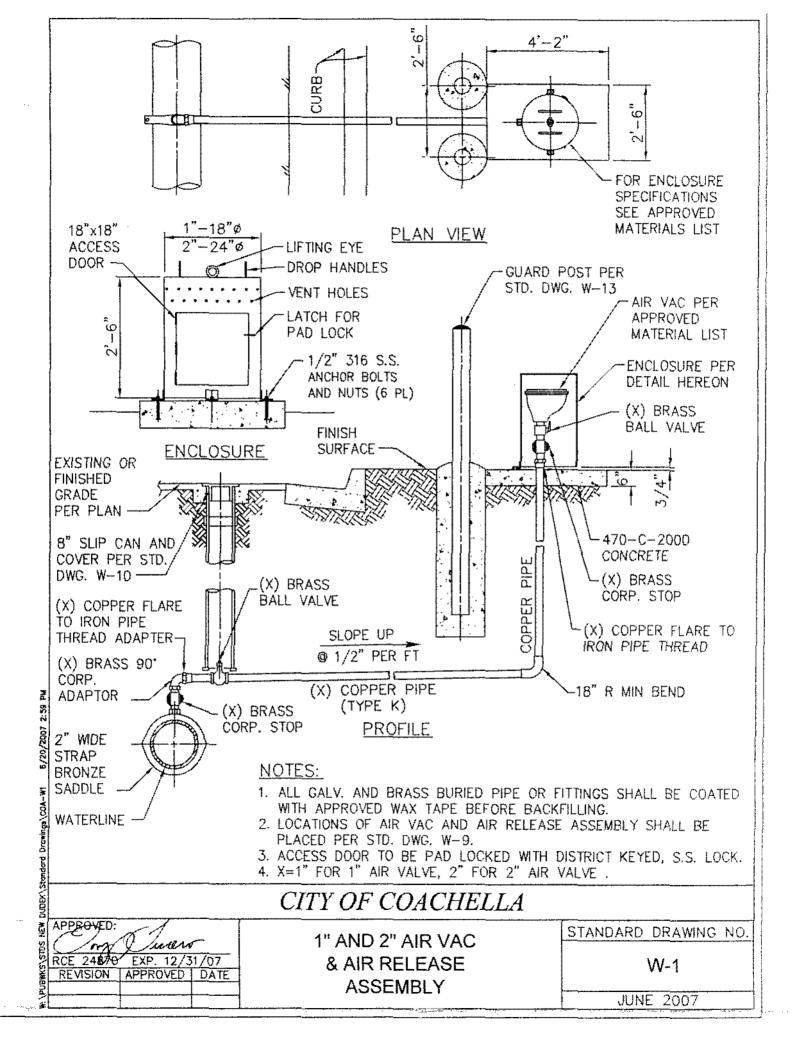
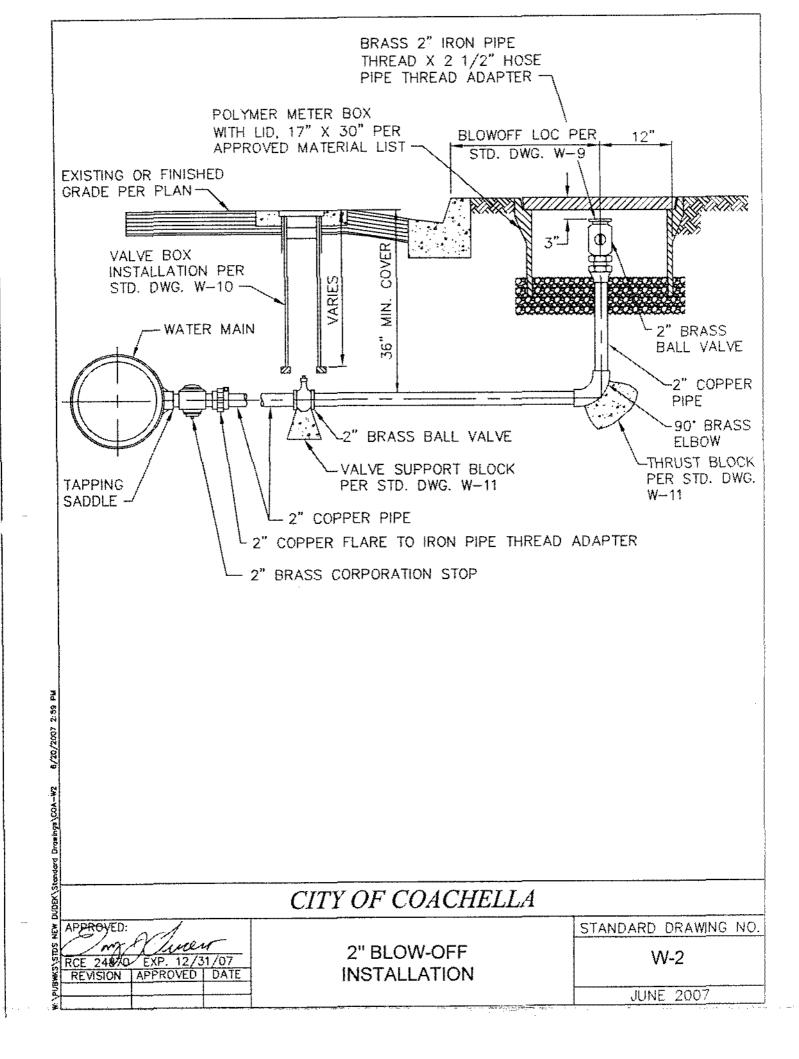
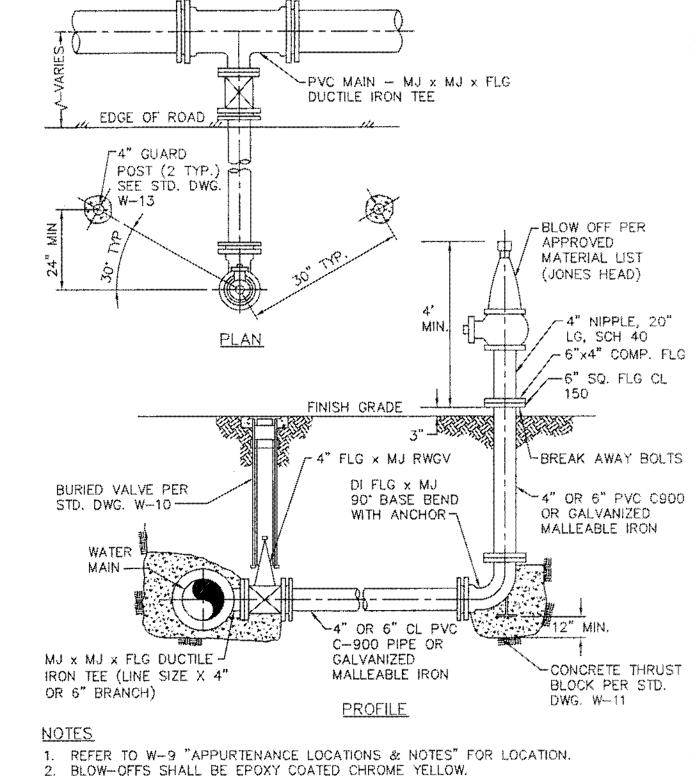
CITY OF COACHELLA INFRASTRUCTURE DEVELOPMENT STANDARDS

| DESCRIPTION | STD. NO. |
|---|----------|
| WATER | |
| 1" and 2" Air Vac & Air Release Assembly | W - 1 |
| 2" Blow-Off Installation | W - 2 |
| 4" PVC Blow—Off Installation | W-3 |
| 6" Fire Hydrant Installation | W-4 |
| Pipe Bedding and Trench Backfill for Potable Water Mains | W-5 |
| Reduced Pressure Backflow Prevention Device (3/4" Thru 2" |) W-6 |
| Reduced Pressure Backflow Prevention Device (4" & Larger) | W-7 |
| Standard Water Service Lateral (Under 2") | W-8 |
| Compact Service Meter Box 4" and Larger | W-9 |
| Fire Detector Check Assembly (4", 6" or 8" D.C.) | W-10 |
| Water Appurtenance Locations | W-11 |
| Water Valve Box Installation | W-12 |
| Concrete Thrust Blocks | W-13.1 |
| Thrust Block Bearing Areas | W-13.2 |
| Water Main Plug Assembly | W-14 |
| Test Station | W-15 |
| Standard Guard Poet Installation | W-16 |







- 3. ALL JOINTS SHALL BE RESTRAINED.
- 4. ALL UNDERGROUND IRON & STEEL SHALL BE POLYETHYLENE ENCASED PER ANSI/AWWA C105.

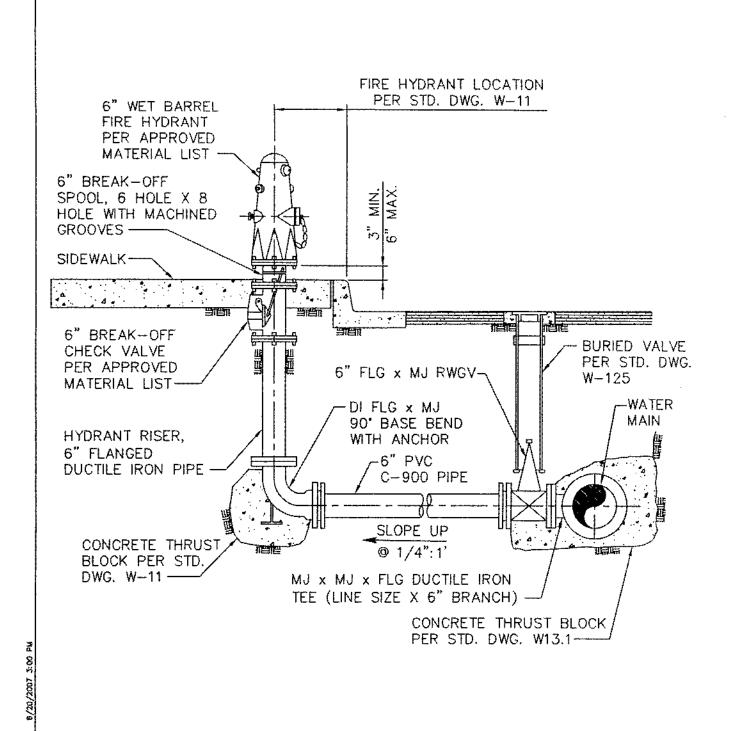
CITY OF COACHELLA

APPROVED: REVISION APPROVED DATE

4" OR 6" PVC OR GALVANIZED MALLEABLE IRON BLOW OFF ASSEMBLY INSTALLATION

STANDARD DRAWING NO.

W-3



CITY OF COACHELLA

APPROVED:

ONY Justo

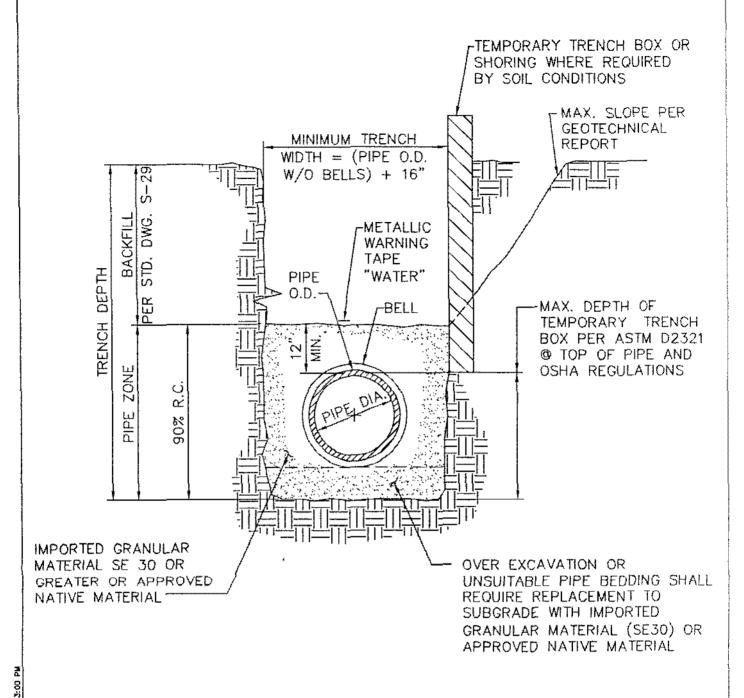
RCE 24870 EXP. 12/31/07

REVISION APPROVED DATE

6" FIRE HYDRANT INSTALLATION

STANDARD DRAWING NO.

W-4

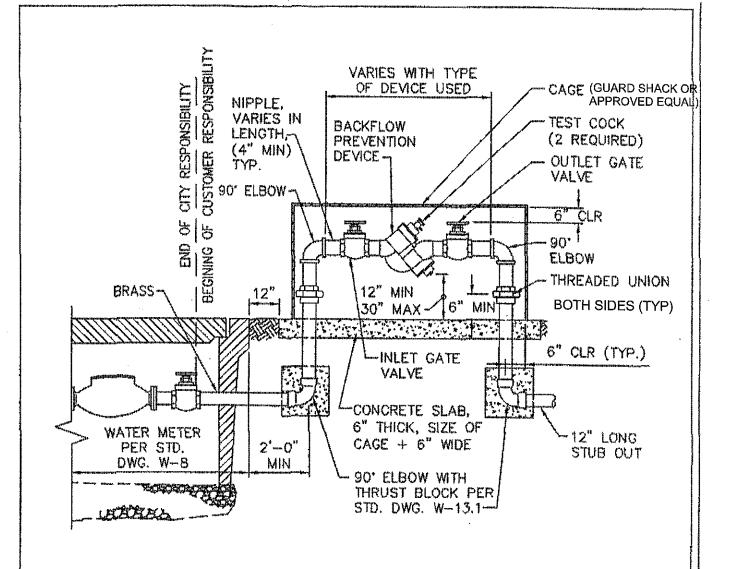


NOTE

DUDEK\Standord Drawings\COA-WS

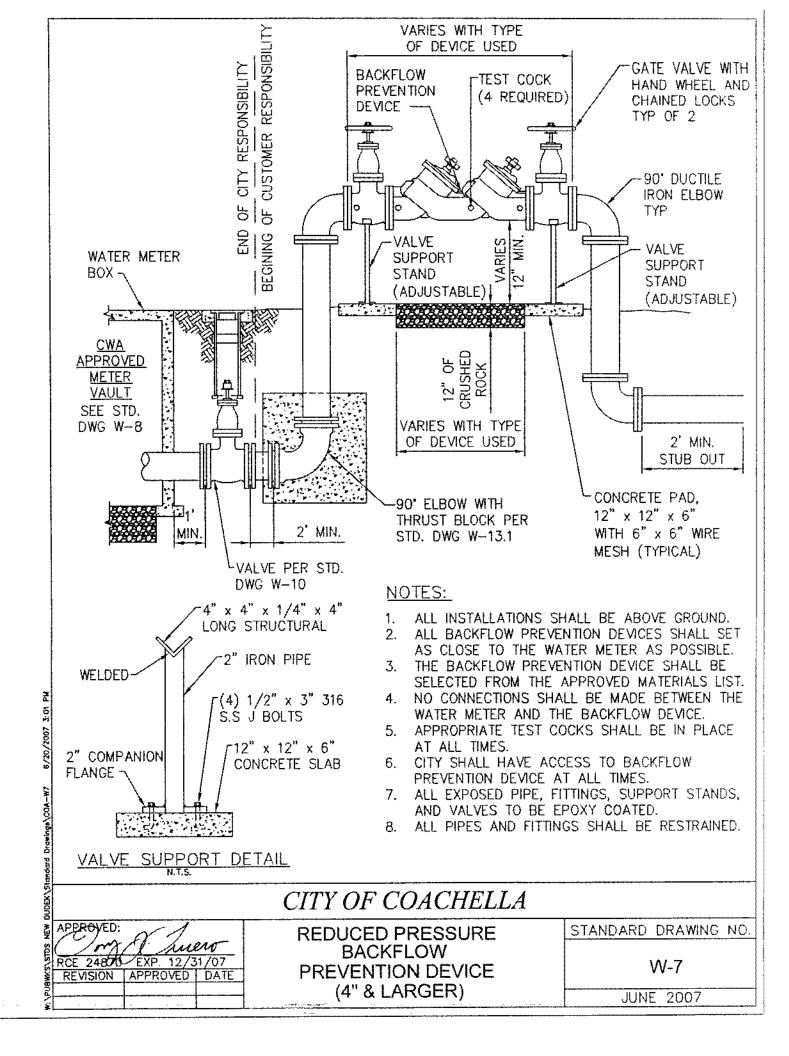
 EXCAVATE BELL HOLES AT EACH PIPE JOINT TO PERMIT PROPER ASSEMBLY AND INSPECTION OF THE ENTIRE JOINT.

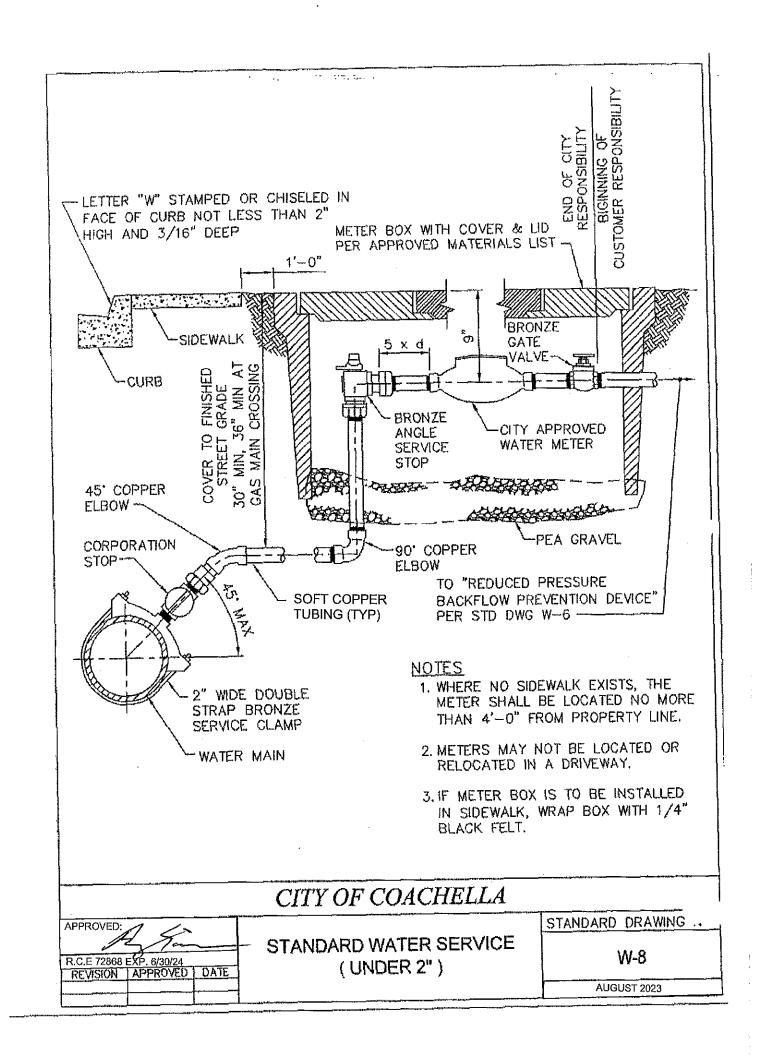
APPROVED: RCE 24879 EXP. 12/31/07 REVISION APPROVED DATE POTABLE WATER MAINS CITY OF COACHELLA STANDARD DRAWING NO. W-5 UNE 2007

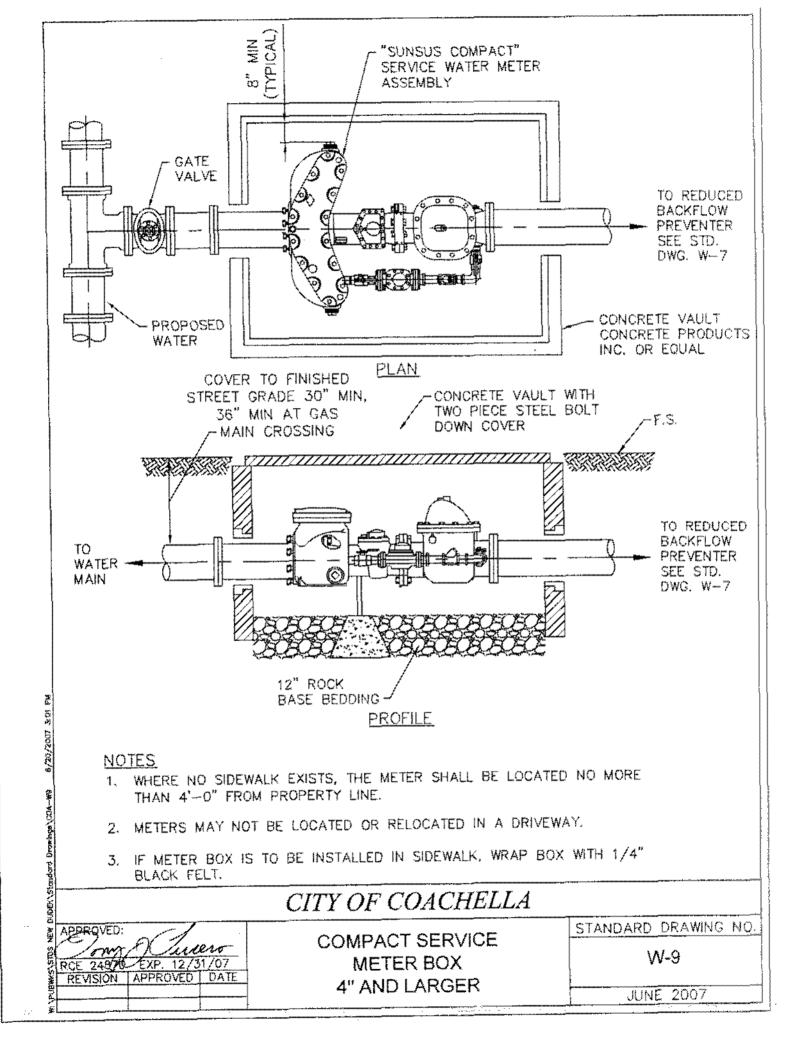


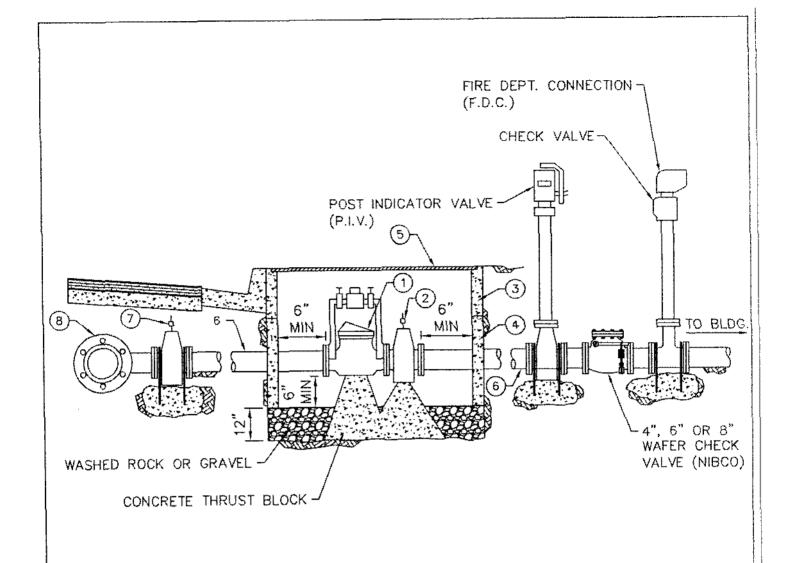
- 1. ALL INSTALLATIONS SHALL BE ABOVE GROUND.
- 2. ALL BACKFLOW PREVENTION DEVICES SHALL BE AS CLOSE TO THE WATER METER AS POSSIBLE. MAXIMUM DISTANCE TO BE 5 FEET.
- 3. THE BACKFLOW PREVENTION DEVICE SHALL BE SELECTED FROM THE APPROVED MATERIALS LIST.
- 4. NO CONNECTIONS SHALL BE MADE BETWEEN THE WATER METER AND THE BACKFLOW DEVICE.
- 5. APPROPRIATE TEST COCKS SHALL BE IN PLACE AT ALL TIMES.
- 6. CITY SHALL HAVE ACCESS TO BACKFLOW PREVENTION DEVICE AT ALL TIMES.
- PIPING MATERIAL SHALL BE RED BRASS OR "L" HARD COPPER, PIPING INSTALLATION SHALL BE PER CURRENT UNIFORM PLUMBING CODE, WITH WAX TAPE WRAPPED JOINTS.
- 8. ALL EXPOSED PIPE, FITTINGS, AND VALVES TO BE EPOXY COATED.

CITY OF COACHELLA APPROVED: R.C.E. 72868 EXP. 6/30/24 REVISION | APPROVED | DATE | PREVENTION DEVICE | (3/4" THRU 2") | AUGUST 2023









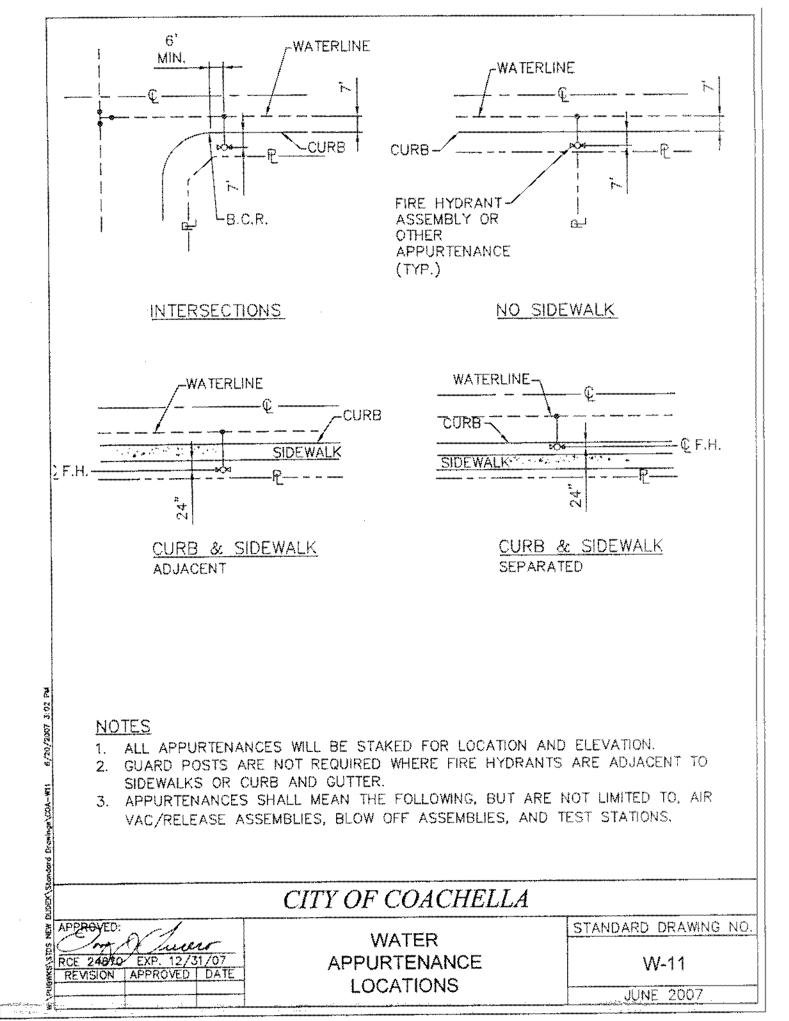
| ITEM SIZE AND | MATERIAL |
|--|-------------------------------------|
| NO. DESCRIPTION | SPECIFICATIONS |
| 4", 6" OR 8" DETECTOR CHECK WITH 5/8" BY-PASS METER | MUELLER A-2130-6 OR APPROVED EQUAL |
| 4", 6" OR 8" RESILLIENT SEAT GATE VALVE. | MUELLER A-2370-16 OR APPROVED EQUAL |
| 3 2'-6" x 4'-0" (4" OR 6") OR 3'-0" x 5'-0" (8") UTILITY BOX TOP SECTION | BROOKS W-200 T, OR W-400 T. |
| 2'-6" x 4'-0" (4" OR 6") UTILITY BOX WITH 4" WALLS OR 3'-0" x 5'-0" (8") WITH 4%" WALLS | BROOKS W-200 OR W-400 SERIES |
| 5 UTILITY BOX COVER (4" OR 6") OR 3'-0" x 5'-0" (8") | BROOKS W-200 -20 |
| 6 4", 6" OR 8" x REQUIRED LENGHT OF PIPE, FLANGED AND/OR MECHANICAL JOINT EACH END | PVC, CML/CMC, DUCTILE IRON PIPE |
| 4", 6" OR 8" RESILLIENT SEATED GATE VALVE, | MUELLER A-2370-16 OR APPROVED EQUAL |
| 8 MAIN SIZE x 4", 6" OR 8" TEE | DUCTILE IRON OR APPROVED EQUAL |
| CITY OF COACHI | ELLA |

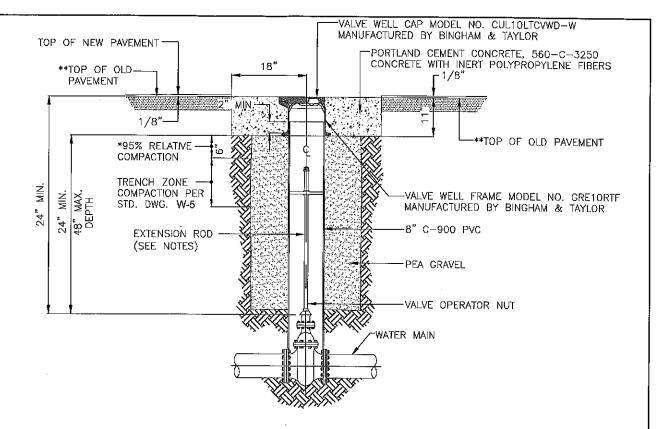
FIRE DETECTOR CHECK

ASSEMBLY (4", 6" OR 8" D.C.)

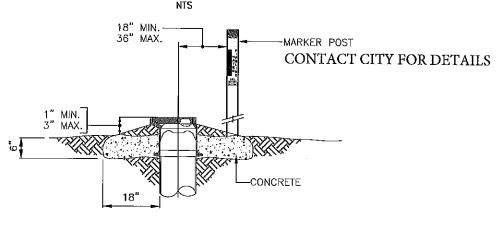
RCE 24870 EXP. 12/31/07 REVISION APPROVED DATE STANDARD DRAWING NO.

W-10





TYPICAL INSTALLATION (STREET, ALLEY, DIRT ROAD OR SHOULDER)



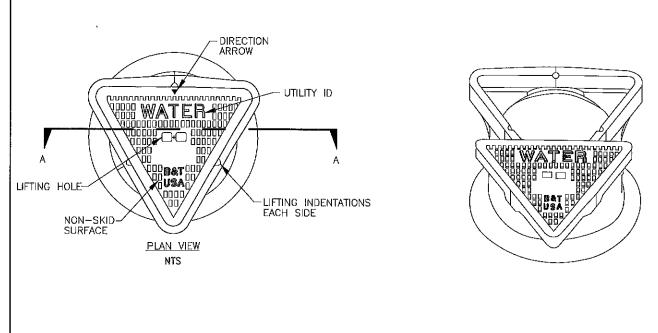
TYPICAL INSTALLATION (UNTRAVELED AREAS)

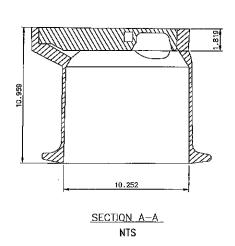
NOTES:

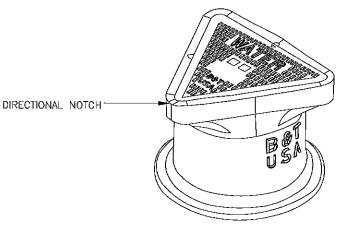
WHERE VALVE OPERATING NUT IS GREATER THAN 48" BELOW THE SURFACE, AN EXTENSION ROD FOR VALVE OPERATION, WITH CIRCULAR CENTERING GUIDE, SHALL BE REQUIRED. THE TOP OF THE EXTENSION ROD SHALL BE MIN. 24" AND MAX. 48" BELOW THE SURFACE

- 1. FOR VALVE OPERATOR WELL CAP SEE STD. DRAWING W-12.1
- 2. FOR MARKER POST SEE STD. DRAWING W-12 (CONTACT CITY FOR DETAILS)
- 3. *PER TRENCH BACKFILL DRAWING -COC STD. W-5
- 4. **DEFINED AS 6 MONTHS OR OLDER

APPROVED: CITY OF COACHELLA DETAIL OF DOMESTIC WATER VALVE OPERATOR WELL INSTALLATION R.C.E. 72868 EXP. 6/30/24 AUGUST 2023 DRAWING NUMBER: W-12

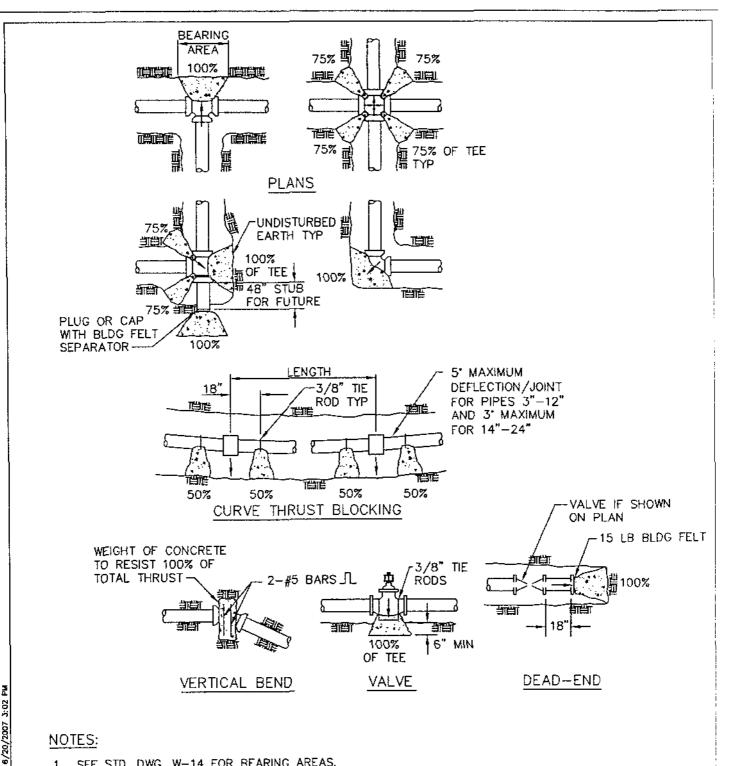






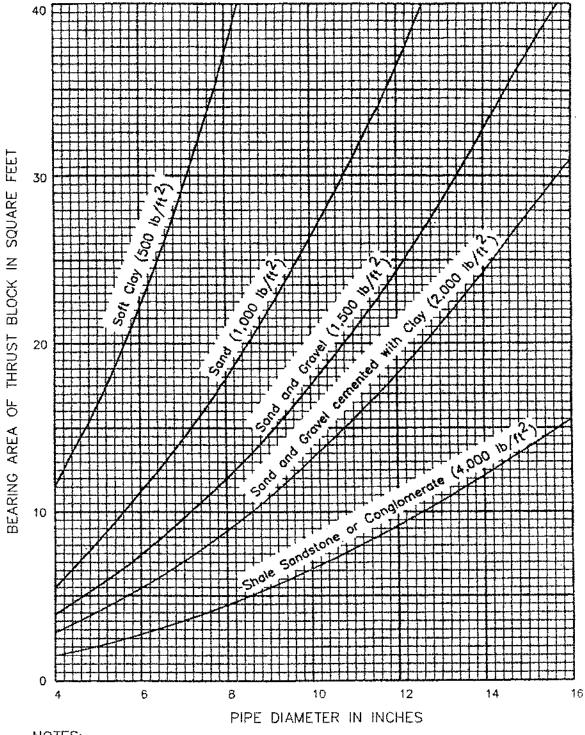
- ALL METALLIC MATERIALS SHALL BE CAST IRON OR DUCTILE IRON.
 FRAME AND LID SHALL HAVE CAST SEAT AND SIDE TO ASSURE CLOSE FIT.
 FOR INSTALLATION, SEE STANDARD DRAWING W-12
- 4. FRAME AND LID SHALL EXCEED H-20 WHEEL LOADING.
- 5. APPROVED MODELS:
- 10 INCH HEAVY MARK V TRI RIM W/FLANGE MODEL NO. GRE10RTF MANUFACTURED BY BINGHAM & TAYLOR 10 INCH MARK V TRI LID CVWD-WATER YELLOW POWDER MODEL NO. CUL10LTCVWD-W MANUFACTURED BY BINGHAM & TAYLOR CONFIRM COLOR WITH CITY PRIOR TO ORDERING

APPROVED: CITY OF COACHELLA DETAIL OF DOMESTIC WATER VALVE **OPERATOR WELL CAP AND FRAME** R.C.E. 72868 EXP. 6/30/24 **AUGUST 2023** DRAWING NUMBER: W-12.1



- SEE STD. DWG. W-14 FOR BEARING AREAS.
- 2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL.
- 3. ARROWS (--) INDICATE THRUST DIRECTION.
- 4. FIGURE (100%) AT THRUST BLOCK INDICATES PER CENT OF TOTAL THRUST TO BE APPLIED FOR BEARING AREA.
- CONCRETE FOR THRUST BLOCKS TO BE 450-C-2000.
- CONCRETE THRUST BLOCK TO BE POURED AGAINST UNDISTURBED EARTH.

CITY OF COACHELLA APPROVED: STANDARD DRAWING NO. CONCRETE W-13.1 RCE 24870 ÆXP 12/31/07 REVISION | APPROVED | DATE THRUST BLOCKS JUNE 2007



- VALUES FROM CURVES ARE FOR TEES AND DEAD ENDS:
 FOR 90' BEND: 1.40 VALUE FROM CURVE
 FOR 45' BEND: 0.80 VALUE FROM CURVE
 FOR 22.50' BEND: 0.40 VALUE FROM CURVE
 FOR LOCATION OF THRUST BLOCK SEE STD. DWG. W-11.
- 2
- BASED ON 225 PSI TEST PRESSURE AND BEARING VALUES OF DRY SOILS.

CITY OF COACHELLA

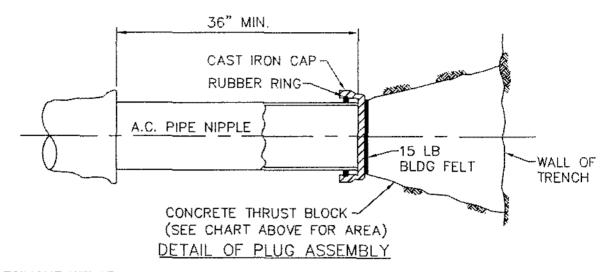
RCE 248/0 EXP. 12/31/07 REVISION APPROVED DATE

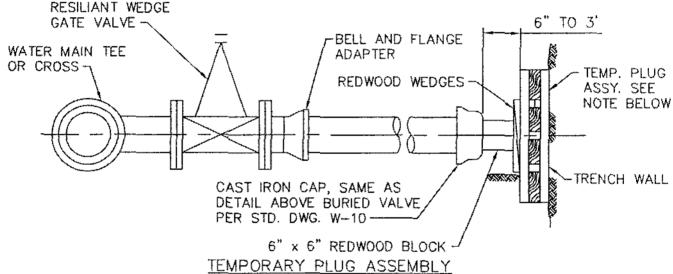
THRUST BLOCK **BEARING AREAS** STANDARD DRAWING NO.

W-13.2

| | SIZE OF | PIPE | | 4" | 6" | 8" | 10" | 12" |
|---------|---------|--------|------|----|----|----|-----|-----|
| BEARING | AREA IN | SQUARE | FEET | 3 | 5 | 8 | 12 | 17 |

THRUST BLOCK DATA





NOTE:

AT TEMPORARY PLUG INSTALLATIONS, IN PLACE OF CONCRETE THRUST BLOCK, USE GRILLAGE MADE OF $2"\times 6"$ REDWOOD BLOCKS, DIMENSIONS AS FOLLOWS:

WIDTH = WIDTH OF TRENCH PLUS 16"
THICKNESS = 6"
HEIGHT =
6" PIPE = 1'-3"

8" PIPE = 2'-0"

10" PIPE = 3'-0"

CITY OF COACHELLA

APPROVED:

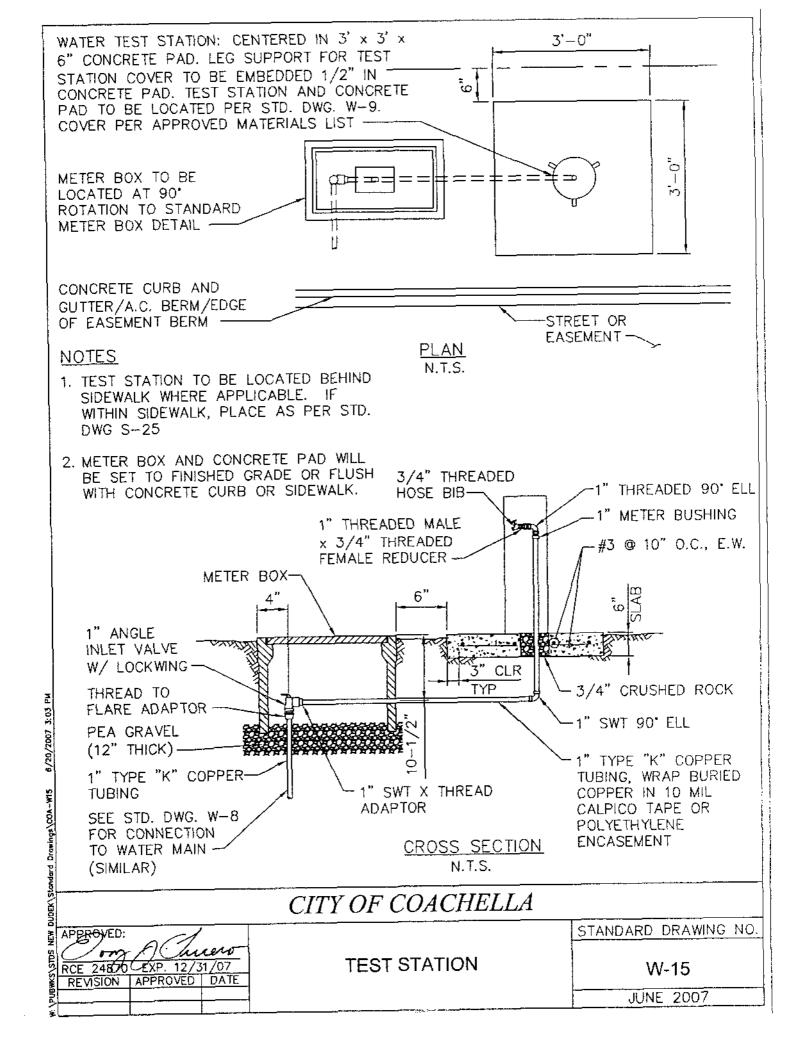
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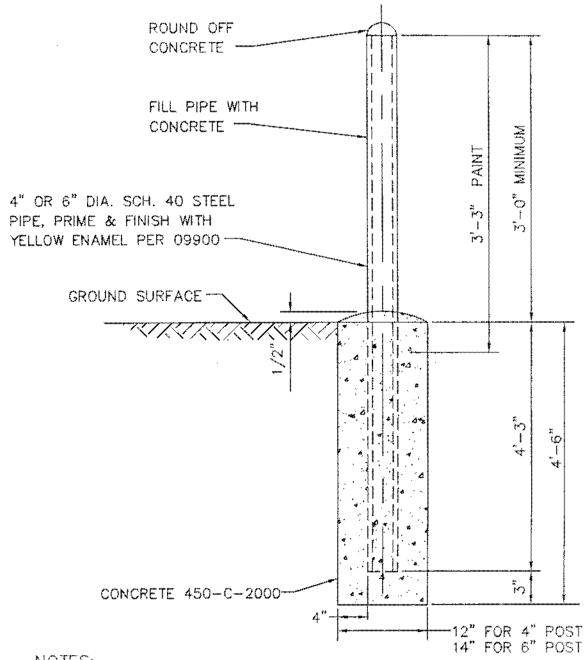
RCE 24870 EXP. 12/31/07

REVISION APPROVED DATE

WATER MAIN PLUG ASSEMBLY

STANDARD DRAWING NO.
W-14





- 1. LOCATION SHALL BE AS SHOWN ON PLAN VIEW, OR AS DIRECTED IN THE FIELD BY CITY ENGINEER.
- 2. FOR AREAS OF 25 MPH OR LESS 4" DIA. POSTS SHALL BE USED, FOR SPEED GREATER THAN 30 MPH 6" DIA. POSTS SHALL BE USED.

| \$ | NC | <u>) (ES:</u> | | *************************************** |
|-------------|-----------------------|---------------------------------|---|---|
| elega (COA) | 1. | LOCATION SHAL BY CITY ENGINE | _ BE AS SHOWN ON PLAN VIEW, OR AS D ER. | IRECTED IN THE FIELD |
| endord Droy | 2. | | 25 MPH OR LESS 4" DIA. POSTS SHALL B 30 MPH 6" DIA. POSTS SHALL BE USED. | BE USED, FOR SPEED |
| S) X3QTQ | | | CITY OF COACHELLA | |
| MEW | APPROYED | () June 1 | | STANDARD DRAWING NO. |
| SCT2/SXM9 | RCE 24870 REVISION | EXP. 12/31/07 APPROVED DATE | W-16 | |
| | | | 75.4 | JUNE 2007 |