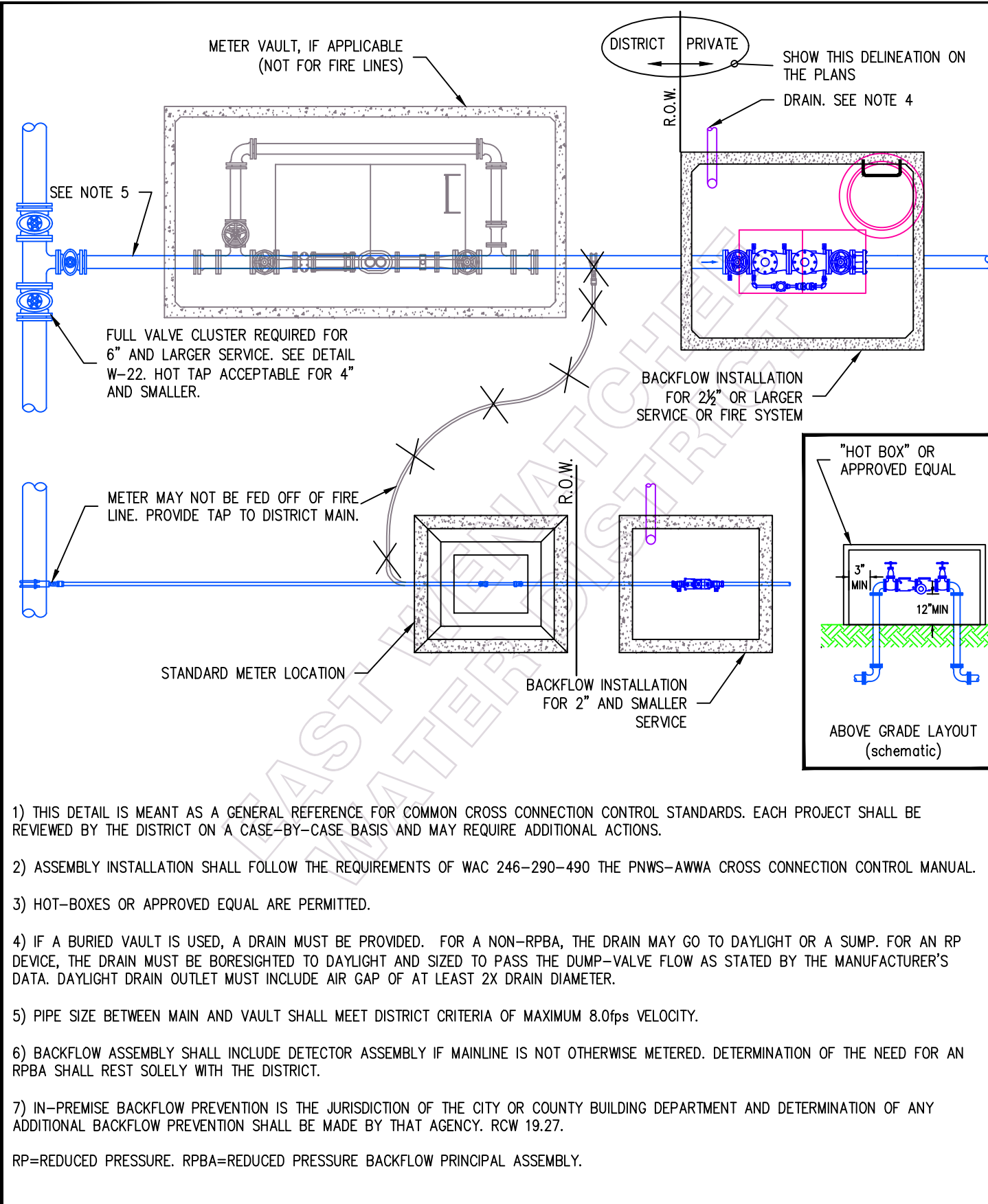
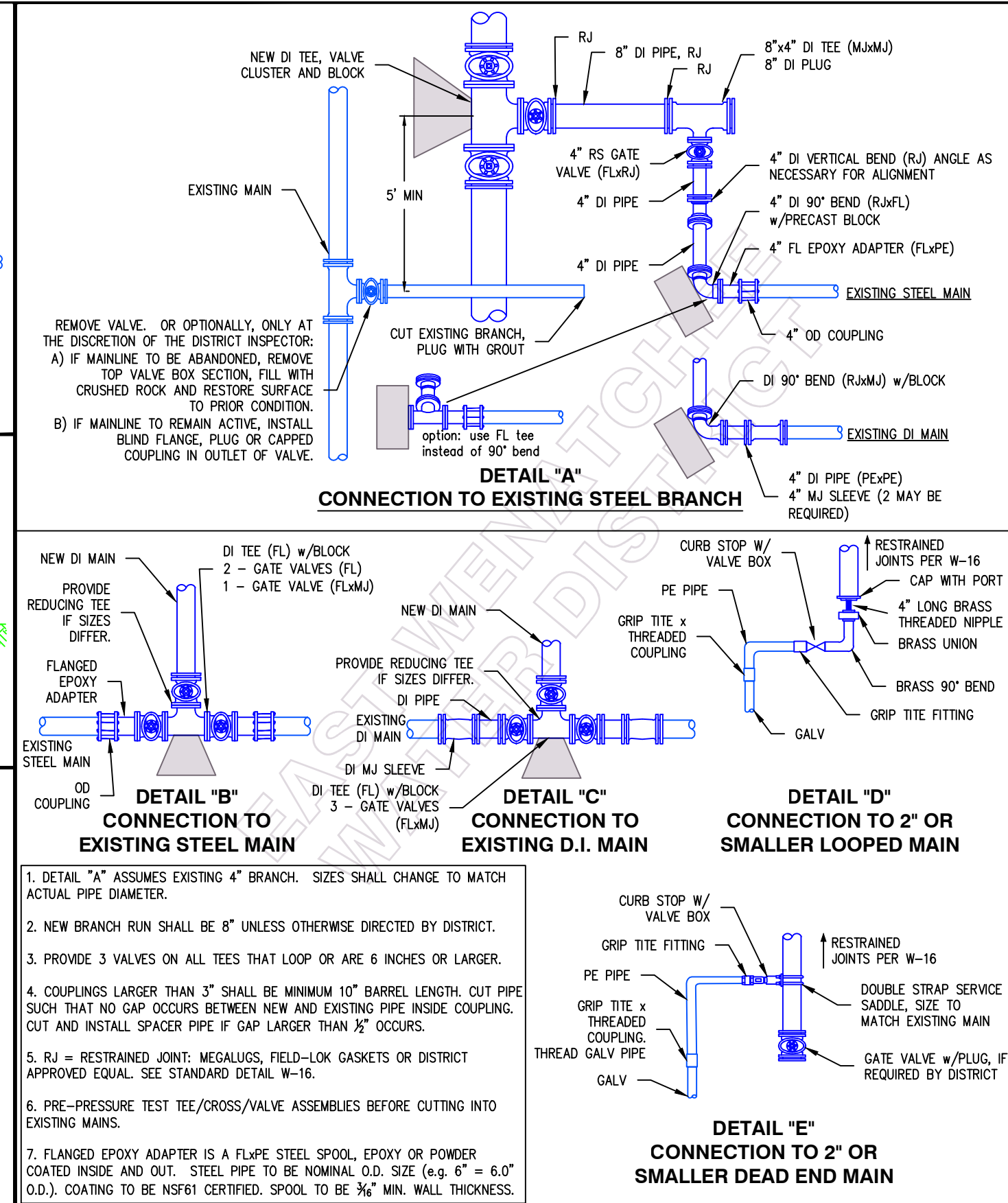


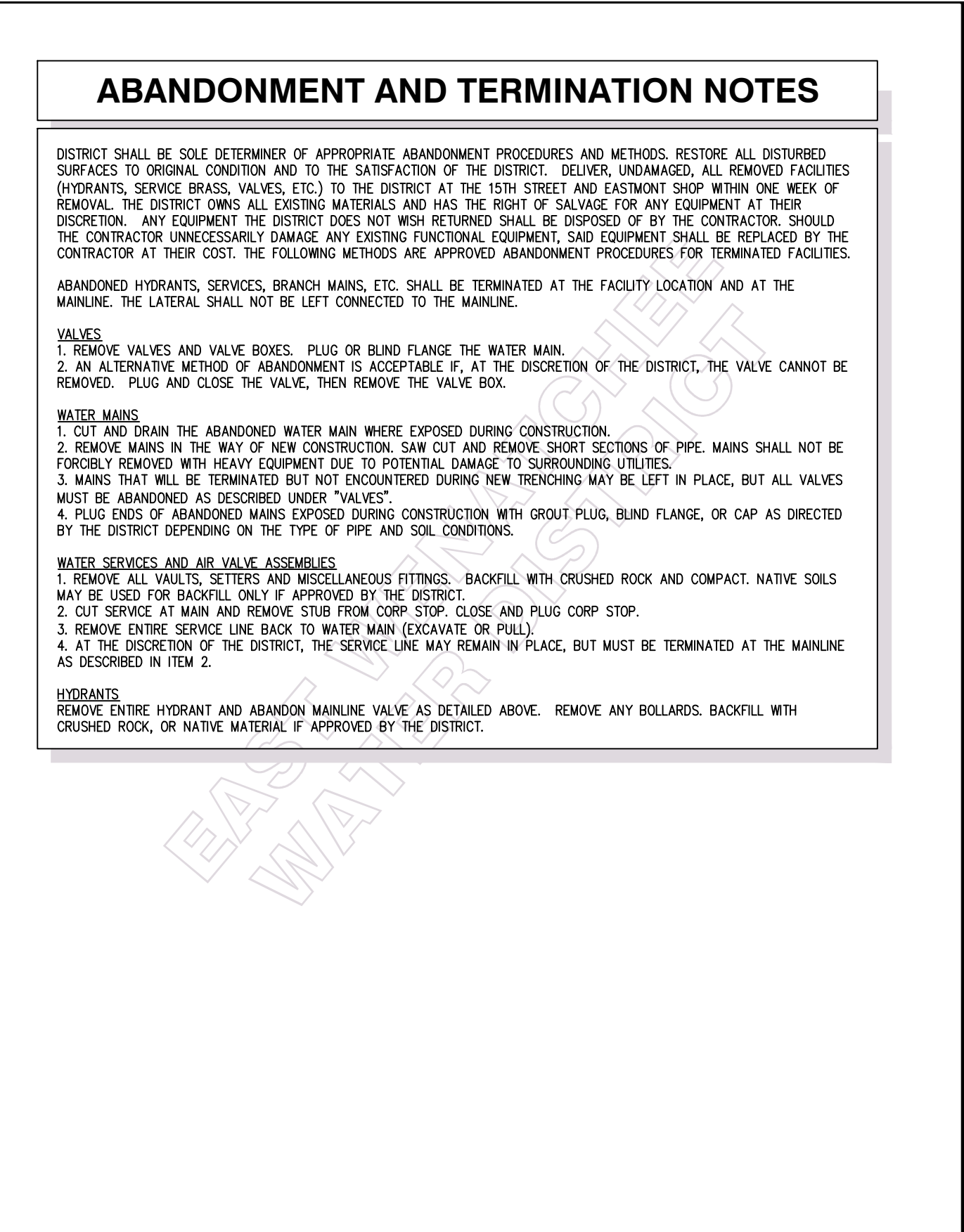
East Wenatchee Water District	WATER SYSTEM STANDARD DETAIL
BACKFLOW PREVENTION ASSEMBLY	
File:EMD704 Revised: JAN 25, 2017 Printed: JAN 25, 2017	DRAWING NO. W-13 SHEET NO. 25



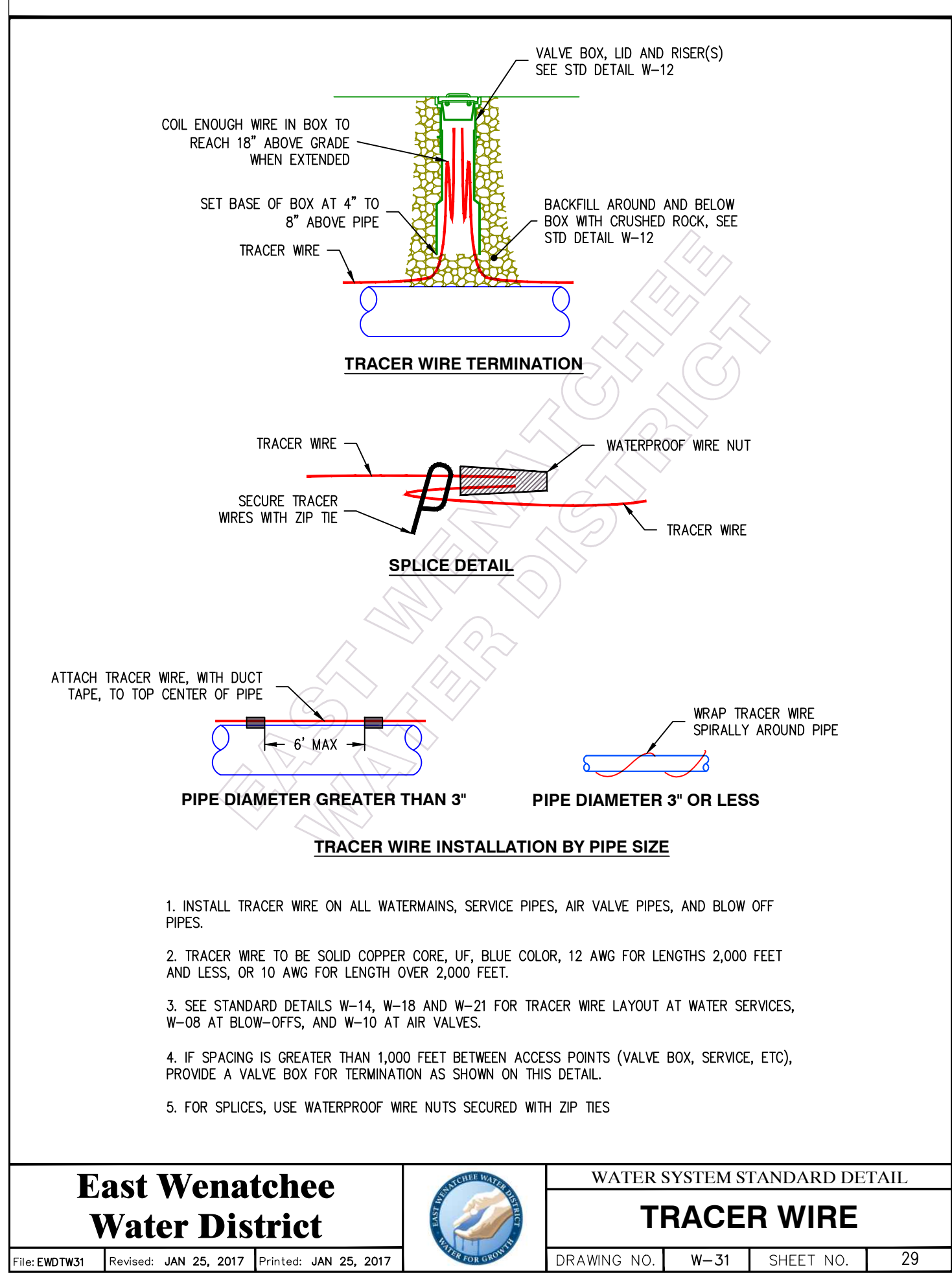
East Wenatchee Water District	WATER SYSTEM STANDARD DETAIL
BACKFLOW ASSEMBLY INSTALLATION	
File:EMD710 Revised: FEB 3, 2012 Printed: FEB 3, 2012	DRAWING NO. W-25 SHEET NO. 26



East Wenatchee Water District	WATER SYSTEM STANDARD DETAIL
CONNECTIONS TO EXISTING MAINS	
File:EMD728 Revised: JUL 22, 2014 Printed: JUL 22, 2014	DRAWING NO. W-22 SHEET NO. 27



East Wenatchee Water District	WATER SYSTEM STANDARD DETAIL
ABANDONMENT OF TERMINATED FACILITIES	
File:EMD729 Revised: JAN 25, 2017 Printed: JAN 25, 2017	DRAWING NO. W-15 SHEET NO. 28



East Wenatchee Water District	WATER SYSTEM STANDARD DETAIL
TRACER WIRE	
File:EMD703 Revised: JAN 25, 2017 Printed: JAN 25, 2017	DRAWING NO. W-31 SHEET NO. 29

- REVISION HISTORY**
- JULY 2008**
- W-01 REMOVED NOTE DESCRIBING ACCESSORIES FOR VALVE BOXES. INFO IS NOW ON W-12.
 - W-02 ADDED KENNEDY KB1D AS AN APPROVED MODEL.
 - W-10 REMOVED DIMENSION FROM CENTER OF VAULT TO SIDEWALK. INFO IS NOW ON W-29.
 - W-10 REVISED NOTE 2, CHANGED "CURB STOP" TO "ISOLATION VALVE".
 - W-10 REMOVED NOTE ABOUT PROVIDING A VALVE POST.
 - W-11 ADDED RESTRAINED JOINTS AS OPTION FOR PIPE RESTRAINT.
 - W-12 CLARIFIED CRUSHED ROCK PLACEMENT. ADDED NOTE FOR 1,000" SPACING. ADDED NOTE FOR VALVE RESTRAINT. ADDED NOTE ON VALVE BOX APPURTENANCES.
 - W-19 ADDED LADDER-UP EXTENSION.
 - W-29 ADDED NOTE 3 ABOUT SECURING FRAME TO VAULT. ADDED NOTE 7 ABOUT CORRECT PLACEMENT WITH FUTURE SIDEWALK.
 - W-20 ADDED LADDER-UP EXTENSION. ADDED NOTE 7 ON METER CAPACITY.
 - W-24 ADDED LADDER-UP EXTENSION. ADDED NOTE 7 ON METER CAPACITY.
 - W-13 ADDED NOTE ON TEST COCK ORIENTATION. ADDED LADDER-UP EXTENSION. SPECIFIED BYPASS METER MODEL.
 - W-22 ADDED DETAIL "D" FOR CONNECTION OF 2" AND SMALLER MAIN.
- JULY 2009**
- W-01 ADD NOTE SPECIFYING PIPE CLASS.
 - W-03 REVISED DIMENSION ON BASE OF TRENCH WIDTH ON TYPICAL TRENCH DETAIL.
 - W-14 CLARIFIED PIPE DIAMETER RANGE FOR SERVICE SADDLE.
 - W-14 ADDED TO CAP THE TERMINATED CORP STOP ON THE ABANDONED SERVICE.
 - W-14 ADDED U-BOLT STYLE SADDLE AS ACCEPTABLE.
- DEC 2009**
- W-25 INCLUDED MINIMUM DIMENSION OF 3" FROM PIPE TO HOTBOX WALL, SAME AS STATE STANDARDS.
- JAN 2011**
- W-01 ADDED NOTE ON CASING AND RUNNER REQUIREMENTS.
 - W-02 WATEROUS HYDRANT MODEL UPDATED TO NEW MODEL NUMBER W67-250.
 - W-03 UPDATED CRUSHED ROCK DEPTH NOTE TO MATCH CITY/COUNTY ROAD STANDARDS.
 - W-03 CHANGED ROCK DEPTH FOR SHOULDERS AND UNDER SIDEWALKS FROM 6" TO 4".
 - W-04 UPDATED DOT SPEC NUMBER ON "CONSTRAINTS" NOTE #3.
 - W-12 ADDED NOTE TO SET LID BETWEEN 0" TO 1/4" BELOW PAVED SURFACE.
 - W-13 ADDED NOTE ON PIPE PASSING THROUGH VAULT WALL TO BE DI OR USE FLEX BOOT.
 - W-14 REMOVED CONFLICTING NOTE ON SERVICE LINE DIAMETER.
 - W-18 CHANGED CURB STOP FROM MIP TO FIP.
 - W-21 ADDED NOTE THAT CURB STOP SIZE SHALL MATCH INCOMING SERVICE LINE SIZE.
 - W-22 OPTION FOR USING A TEE INSTEAD OF A 90" AT THE TIE FOR EASIER THRUST BLOCKING.
 - W-22 ADD NOTE TO PLUG CUT END OF ABANDONED PIPE WITH GROUT.
 - W-22 ADD NOTE DEFINING A "FLANGED EPOXY ADAPTER".
 - W-25 REMOVED NOTE THAT SAID DEVICE MAY BE LOCATED IN MECHANICAL ROOM. THIS IS NO LONGER PERMITTED AS THE SOLE METHOD OF BACKFLOW PROTECTION.
- OCT 2011**
- W-10 ADDED 3D DETAIL FOR CORP STOP BLOCKING AND SADDLE CONNECTION. CHANGED GALV FITTINGS TO BRASS.
 - W-21 REMOVED REFERENCE TO 7" HIGH SETTER. SETTER HEIGHT IS INCLUDED IN MODEL NUMBER.
 - W-12 ADDED WORDING ON NOTE 20 TO CLARIFY DI PIPE AS THE STANDARD. CONSISTENT WITH COMPREHENSIVE PLAN.
 - W-13 ADDED METER MODEL NUMBER "SR11".
 - W-01, W-30 CREATED SECOND CONSTRUCTION NOTES PAGE.
 - W-30 ADDED NOTE REQUIRING CONTRACTOR EXPERIENCE.
- JULY 2013**
- W-09 INCREASED MINIMUM BLOW OFF SIZE TO 4" FOR 14" AND LARGER MAINS. ADDED NOTE FOR TAP SIZE TO BE NO LESS THAN BLOW OFF SIZE.
 - W-10 SPECIFIED ALL PVC TO BE MINIMUM SCHEDULE 40.
 - W-13 DRAIN SIZE NOTE CHANGED TO 4" (MIN). RP DEVICES MAY NEED A LARGER DRAIN.
 - W-13 CHANGE BYPASS METER REGISTER MODEL FROM ECS TO TR/PL.
 - W-13 REMOVED FLANGE PIPE ON INLET AND REPLACED WITH FCA.
 - W-14 ADD LOCATING TAP LABEL "BURIED WATERLINE".
 - W-15 REMOVED RESTRAINED VALVE NOTE. ADDED NOTE TO CUT SERVICE AT MAIN.
 - W-30 ADD VAULT LID NOTE DESCRIBING TAPER-TOP STYLE LID REQUIREMENTS. REMOVED RELATED NOTES FROM RELEVANT DETAILS (W08, W10, W18, W21) AND REFERRED BACK TO CONSTRUCTION NOTES. LID SPECIFICATION WAS NOT CHANGED.
 - W-30 ADD NOTE REGARDING USE OF MINIMUM SCH 40 PVC FOR IRRIGATION REPAIRS.
 - W-30 EXPANDED HATCH NOTE TO CLARIFY THE FRAME DRAINAGE REQUIREMENTS.
 - W-30 ADDED NOTE REQUIRING 48-72 HOURS NOTICE TO DISTRICT FOR OUTAGES.
- JULY 2014**
- W-07 DEFINED MATERIAL FOR ALL TIE/SHACKLE RODS. UPDATED DETAILS (W02, W05, W17, W20, W24) TO REFERENCE BACK TO W-07 FOR ROD MATERIAL.
 - W-10 ADDED TRACER WIRE TO SUPPLY LINE. ADDED #24 MESH SCREEN TO VENT.
 - W-12 ADDED DETAIL FOR CURB STOP RISER PIPE.
 - W-13 UPDATED BYPASS METER REGISTER MODEL.
 - W-14 ADDED CONCRETE BLOCKING AND PT WOOD SHIM CALLOUT.
 - CHANGED SERVICE LINE SIZE FOR 3/4" METER BASED ON WHICH SIDE OF THE STREET.
 - ADDED FOR CONNECTION TO EXISTING SERVICE BE AT OR BEHIND ROW.
 - W-17 CHANGED 1/2" AIR RELEASE VALVE TO 1" COMBINATION AIR VALVE. UPDATED PIPING. ADDED AIR VALVE TO BOTH SIDES OF PRV.
 - ADDED NOTE TO ADDRESS THE LOCATION OF GAUGE & AIR VALVE.
 - W-18 UPDATED FORD METER SETTER MODEL NUMBERS. ADDED A 3" LONG BRASS NIPPLE BETWEEN CURB STOP AND SETTER.
 - W-19 UPDATED LINE WORK FOR AIR VALVE PER CHANGE TO W-17.
 - W-20 REMOVED BASKET STRAINER.
 - W-21 UPDATED FORD METER SETTER MODEL NUMBERS. ADDED 6" BRASS NIPPLE BETWEEN CURB STOP AND SETTER.
 - W-22 CHANGED VALVE ON 2" AND SMALLER DETAIL TO CURB STOP. ADDED MINIMUM WALL THICKNESS TO FLANGED EPOXY ADAPTER. ADDED DETAIL FOR CONNECTION TO EXISTING 2" AND SMALLER DEAD END MAIN.
 - W-24 REMOVED BASKET STRAINER.
 - CREATED NEW DETAIL FOR COMMON LARGE VAULT INFORMATION.
 - ADDED NOTE THAT ALL EXTERIOR THRUST BLOCKS ON LARGE VAULTS SHALL BE INSTALLED PRIOR TO THE PIPE INSTALLED THROUGH THE VAULT BEING CUT OUT.
 - ADDED A NOTE THAT REINFORCED THRUST BLOCKS SHALL BE FORMED USING WOOD FORMS NOT POURED DIRECTLY AGAINST SOIL.
 - ADDED NOTE THAT REINFORCED THRUST BLOCKS SHALL BE CONSOLIDATED USING VIBRATION.
 - W-29 ADDED NOTE THAT CUSTOMER SIDE CASINGS ARE ALWAYS REQUIRED.
 - W-30 ADDED NOTE TO DELIVER SALVAGED VALVES WITHIN ONE WEEK AND UNDAMAGED.
 - W-30 ADDED NOTE THAT RESTRAINTS AND AFFECTED PIPE MAY NOT BE REUSED ONCE ASSEMBLED.
- NOVEMBER 2014**
- W-20 REVISED METER LAY LENGTH AND MODEL FROM NEPTUNE TO SENSUS.
 - W-24 REVISED METER LAY LENGTH AND MODEL FROM NEPTUNE TO SENSUS.
 - W-30 ADDED NOTE FOR FLANGE GASKET AND BOLT MATERIALS.
- JUNE 2015**
- W-07 REMOVED ASTM A36 STEEL FROM TABLE HEADING.
 - W-08 REVISED NOTE TO SEE DETAIL W29 FOR VAULT INSTALLATION REQUIREMENTS.
 - W-10 REVISED NOTE TO SEE DETAIL W29 FOR VAULT INSTALLATION REQUIREMENTS.
- JUNE 2015 (CONTINUED)**
- W-10 CHANGED VAULT LOCATION TO BE IN SIDEWALK.
 - W-13 REVISED VAULT DRAINS TO CONFORM TO DETAIL W-26.
 - W-15 REVISED FIRST PARAGRAPH.
 - W-26 REVISED NOTE REGARDING PIPE LENGTHS TO ACCOMMODATE LONG VAULTS.
 - W-26 ADDED REQUIREMENT OF 2 SUPPORTS FOR LADDER-UP EXTENSIONS.
 - W-21 ADDED PRESSURE TESTING TO PE PIPE SERVICE CONNECTION.
 - W-21 ADDED LENGTHS FOR BRASS NIPPLE BASED ON SINGLE OR DOUBLE SERVICE.
 - W-23 ADDED PRESSURE TESTING TO PE PIPE SERVICE CONNECTION.
 - W-29 CHANGED DETAIL TITLE TO "WATER SERVICE, AIR VALVE, BLOW OFF VAULT INSTALLATION PLACEMENT".
 - W-29 ADDED PRESSURE TESTING TO PE PIPE SERVICE CONNECTION.
 - W-29 CHANGED NOTE ON THE LIDS INSTALLATION WITHIN SIDEWALK DETAIL TO REQUIRING A FULL PANEL OF SIDEWALK AROUND VAULT WHEN SIDEWALK IMPROVEMENTS ARE DEFERRED.
 - W-29 DETAIL NOTE CHANGES:
 - ADDED TO NOTE TO SET LID 2" ABOVE FINISHED GRADE IN LANDSCAPE AREAS.
 - ADDED NEW NOTE TO INSTALL MASTIC BETWEEN VAULT SECTIONS
 - ADDED NEW NOTE REQUIRING A HMA APRON AROUND THE LID IN UNPAVED TRAVEL AREAS.
 - W-30 RE-ADDED VAULT LID NOTE ACCIDENTALLY DELETED DURING 2014 REVISIONS.
 - W-30 MOVED NOTE REGARDING SALVAGED EQUIPMENT TO DETAIL W-15.
- June 2016**
- W-13 REVISED MINIMUM VAULT SIZE REQUIREMENTS
 - W-13 REVISED SADDLE FIT RANGE
 - W-18 ADDED MUELLER PRODUCT INFORMATION TO TABLE
 - W-21 ADDED MUELLER PRODUCT INFORMATION TO TABLE
 - W-30 ADDITIONAL SPACING REQUIREMENTS FOR CASING RUNNERS
- January 2017**
- W-01 REVISED WATER MAIN COVERAGE DEPTH NOTE
 - W-01 REVISED THE THRUST RESTRAINT NOTE
 - W-01 INCLUDED SETTERS AND TAILPIPE IN PRESSURE TEST NOTE
 - W-01 INCLUDED OPEN END OF VALVES IN PIPE PLUG NOTE
 - W-06 REMOVED DEADMAN THRUST BLOCK DETAIL
 - W-07 REVISED ATTACHMENT DETAIL TO INCLUDE A WASHER AND DOUBLE NUT OR NYLOCK NUT
 - W-10 CLARIFIED CMU BLOCK SIZE REQUIRED AND ELIMINATED CMU BLOCK UNDER CURB STOP
 - W-10 CLARIFIED MATERIAL ALLOWED FOR CORP STOP BLOCKING.
 - W-12 ADDED NOTE 8 AND ADDED PLAN VIEW OF BOX LID
 - W-13 UPDATED NOTE 3 TO CLARIFY RESTRAINED PIPE REQUIREMENTS
 - W-13 REMOVED THRUST BLOCKS AND SHACKLES
 - W-13 CHANGED THE FCA TO A FLxRJ ADAPTER
 - W-13 ADDED DISMANTLING JOINT
 - W-13 UPDATED VAULT MIN INTERIOR DIMENSION REQUIREMENTS TO MATCH NEW PIPE LAYOUT
 - W-13 INCLUDED IPERL IN TYPE OF METER ALLOWED
 - W-15 INCLUDED AIR VALVE ASSEMBLIES IN WATER SERVICE SECTION TITLE
 - W-19 REMOVED WALL COLLARS FROM DETAIL
 - W-20 REMOVED EXTERIOR BLOCKS AND SHACKLES, ADDED NOTE 8, UPDATED FITTING NO. 2 FROM MJ TO RJ
 - W-21 REMOVED NOTE 4 REGARDING MASTIC BETWEEN CHAMBER TOP AND BASE
 - W-21 ADDED NOTE REGARDING PRESSURE TESTING SERVICE
 - W-21 ADDED NOTE IN ELEVATION REGARDING REQUIRED ADAPTER IN 1" SETTERS
 - W-24 REMOVED EXTERIOR BLOCKS AND SHACKLES, ADDED NOTE 8, UPDATED FITTING NO. 2 FROM MJ TO RJ WITH NO FCA OPTION
 - W-26 REMOVED ALL WALL COLLARS
 - W-26 UPDATED NOTE 2 TO HAVE THE DISTRICT DECIDE IF EXTERNAL BLOCKS ARE REQUIRED.
 - W-26 CLARIFIED IN NOTE 3 TO NEATLY NOTE DRAIN PIPING IN VAULT
 - W-26 CREATED A NEW NOTE 7 ALLOWING THE DISTRICT TO REQUIRE INTERIOR PAINT
 - W-26 UPDATED NOTE 8 (WAS PREVIOUSLY 7) TO REQUIRE EXTERIOR COAT ON GROUT PATCHES
- January 2017 (CONTINUED)**
- W-30 RELOCATED CASING NOTE TO CASING DETAIL, W-32
 - W-30 UPDATED CONTRACTOR SHUTDOWN REQUIREMENT NOTE
 - W-30 INCLUDED ASTM A307 GRADE B FOR FLANGE BOLTS
 - W-31 NEW DETAIL CREATED FOR TRACER WIRE INSTALLATION
 - W-32 NEW DETAIL CREATED FOR CASING PIPES
- September 2017**
- W-01 RELOCATED DOMESTIC-MADE REQUIREMENT NOTE FROM NOTE 15 TO NOTE 1.
 - W-01, W-30 SPLIT NOTE 15 INTO SEPARATE NOTES 1, 2, AND 17. RENUMBERED OTHER NOTES ACCORDINGLY.

- JUNE 2015 (CONTINUED)**
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