



PROVIDE A VALVE BOX FOR TERMINATION AS SHOWN ON THIS DETAIL.

ADJACENT VALVE BOXES.

East Wenatchee

Water District

File: EWDTW31 Revised: MAY 2, 2018 Printed: MAY 2, 2018

5. FOR SPLICES, USE A WATERPROOF DBY SPLICE KIT AND SECURE WITH ZIP TIES.

6. TERMINATE TRACER WIRES IN ALL VALVE BOXES INCLUDING CLUSTERS WHICH MAY HAVE MULTIPLE

WATER SYSTEM STANDARD DETAIL

TRACER WIRE

DRAWING NO. W-31 SHEET NO. 29

- W-01 ADDED NOTE ON CASING AND RUNNER REQUIREMENTS
- W-02 WATEROUS HYDRANT MODEL UPDATED TO NEW MODEL NUMBER WB67-250. W-03 UPDATED CRUSHED ROCK DEPTH NOTE TO MATCH CITY/COUNTY ROAD
- 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
- 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
- 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.

• 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 "SRII".
- W-01. W-30 CREATED SECOND CONSTRUCTION NOTES PAGE.
- W-30 ADDED NOTE REQUIRING CONTRACTOR EXPERIENCE.

- 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
- 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 TAPE LABEL "BURIED WATERLINE".
- W-15 REMOVED REDUNDANT VALVE NOTE. ADDED NOTE TO CUT SERVICE AT MAIN. W-30 ADD <u>VAULT LID NOTE</u> DESCRIBING TAPER-TOP STYLE LID REQUIREMENTS. REMOVED RELATED NOTES FROM RELEVANT DETAILS (WO8, 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.

- 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
- ADDED FOR CONNECTION TO EXISTING SERVICE BE AT OR BEHIND ROW. W-17 CHANGED ½" 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-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.
- W-26 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
- 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
- W-30 ADDED NOTE THAT RESTRAINTS AND AFFECTED PIPE MAY NOT BE REUSED ONCE ASSEMBLED.

 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.

• 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. 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
- W-30 RE-ADDED VAULT LID NOTE ACCIDENTALLY DELETED DURING 2014 REVISIONS. • W-30 MOVED NOTE REGARDING SALVAGED EQUIPMENT TO DETAIL W-15.

- W-13 REVISED MINIMUM VAULT SIZE REQUIREMENTS
- W-14 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

- 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
- W-10 CLARIFIED CMU BLOCK SIZE REQUIRED AND ELIMINATED CMU BLOCK UNDER CURE

- 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 ROUTE 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
- 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

• 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.

- W-01 CLARIFIED CUSTOMER SIDE TAILPIPE IN PRESSURE TESTING NOTE.
- W-01 REVISED DOMESTIC MADE REQUIREMENT NOTE TO EXCLUDE CASING PIPES
- W-02 UPDATED THE APPROVED M&H MODEL NUMBERS W-02 ADDED TRACER WIRE TO ELEVATION VIEW
- W-03 ADDED NOTE TO TRENCH DETAIL ABOUT TRACER WIRE INSTALLATION.
- W-04 ADDED A ROW FOR SILT IN TABLE 2. • W-07 ADDED ATTACHMENT DETAIL FOR SHACKLE PLATES
- W-07 ADDED A BULLET LIST OF APPROVED MATERIALS FOR THE TIE RODS IN THE GENERAL NOTES.
- W-08 REVISED THE TRACER WIRE TO NOT WRAP AROUND THE PIPE.
- W-10 REVISED TRACER WIRE ROUTING.
- W-10 CREATED AN ISOMETRIC OF THE BLOW-OFF TEE. W-10 UPDATED THE MODEL NUMBERS FOR THE APCO AIR RELEASE/VACUUM VALVE.
- W-10 CALLED OUT THE LENGTH OF THE NIPPLE UNDERNEATH THE AIR RELEASE/VACCUM
- W-12 ADDED TRACER WIRE TO ISOLATION VALVE DETAIL

- W-12 CLARIFIED PRE-PRESSURE TEST NOTE TO SAY CLOSED SEAT.
- W-12 ADDED TO MARKER POST NOTE TO INCLUDE WHEN VALVE IS IN GRAVEL AREA.
- W-13 ADDED 12" VALVE SIZE DATA TO THE VAULT MIN. INSIDE TABLE
- W-14 ADDED 1" MIN SIZE TO PE SERVICE PIPE
- W-14 REVISED TRACER WIRE TO NOT WRAP AROUND PIPE

05/02/18

- W-14 INCLUDED "WHEN TAPPING EXISTING MAIN" TO NOTE ABOUT TRACER WIRE CONNECTION W-16 ADDED A FUSION BONDED POLYESTER COATING REQUIREMENT TO THE MECHANICAL JOINT RESTRAINTS
- w-16 UPDATED THE REQUIRED RESTRAINED LENGTHS FOR ALL FITTINGS
- W-17 ADDED A BELL REDUCER ON THE GAUGE & AIR VALVE DETAIL
- W-17 ADDED A MAX TAP SIZE TABLE W-18 REVISED TRACER WIRE TO NOT WRAP AROUND PIPE
- W-18 ADDED DETAIL TO SHOW SERVICE LINE GOING UNDER CROSSING UTILITY • W-18 ADDED 3" CASING TO ELEVATION DETAIL FOR SERVICE PIPE
- W-19 ADDED FLxRJ ADAPTERS TO EACH END OF THE MAIN PIPE IN THE VAULT W-19 ADDED A SPOOL OF PIPE TO SEPARATE THE PRV'S AND MOVE THE LADDER
- W-19 REVISED ITEM NO. 4, REDUCING TEE, TO COME WITH A TAPPED BOSS W-20 ADDED A VALVE AND DRAIN ON THE BYPASS W-21 REVISED TRACER WIRE TO NOT WRAP AROUND PIPE
- W-21 UPDATED THE MUELLER MODEL NUMBER • W-22 REMOVED NOTES AND PIPING THAT WAS REDUNDANT TO DETAIL W-15 W-22 UPDATED GENERAL NOTE 1 TO READ WATERMAIN INSTEAD OF BRANCH
- W-22 UPDATED COUPLING NOTE TO INCLUDE ROMAC 511 COUPLING OR EQUAL WITH A 7" CENTER RING
- W-24 ADDED A VALVE AND DRAIN ON THE BYPASS
- W-26 CLARIFIED NOTE ABOUT DRILLING 2" HOLE IN DOOR. ONLY IF VAULT HAS METER • W-26 ADDED NOTE ABOUT A SPRAY UNDERCOAT TO THE GROUT PACK
- W-26 REVISED LADDER-UP TO BE SPRING LOADED AND INCLUDED APPROVED MATERIALS FOR THE LADDER W-29 ADDED REFERENCE TO RETAINING WALL DETAIL TO GENERAL NOTE 4
- W-30 UPDATED THE DIMENSIONS FOR THE RECESSED HOLE FOR THE RADIO.
- W-30 ADDED NOTE STATING THE TYPE OF VALVES TO BE USED WHEN SMALLER THAN 4". W-31 UPDATED TRACER WIRE TO COME IN BETWEEN TWO PARTS OF VALVE BOX
- W-31 UPDATED DETAIL TO SHOW TRACER WIRE TERMINATING ON SLEEVE OR COUPLING
- W-31 REVISED THE WATERPROOF NUT TO A WATERPROOF DBY CONNECTOR
- W-31 REMOVED TRACER WIRE WRAPPING DETAIL W-31 ADDED GENERAL NOTE 6
- W-32 ADDED DETAIL FOR CASINGS LONGER THAN 20' • W-32 INCLUDED A CROSS SECTION OF THE CROSS UTILITY FOR EACH CASING DETAIL.
- W-32 ADDED NOTE ABOUT CASING RUNNER SELECTION SIZE.
- W-32 ADDED NOTE LISTING CASING SIZE NEEDED FOR VARIOUS PUSH-ON JOINT DI CARRIER PIPE SIZES.

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