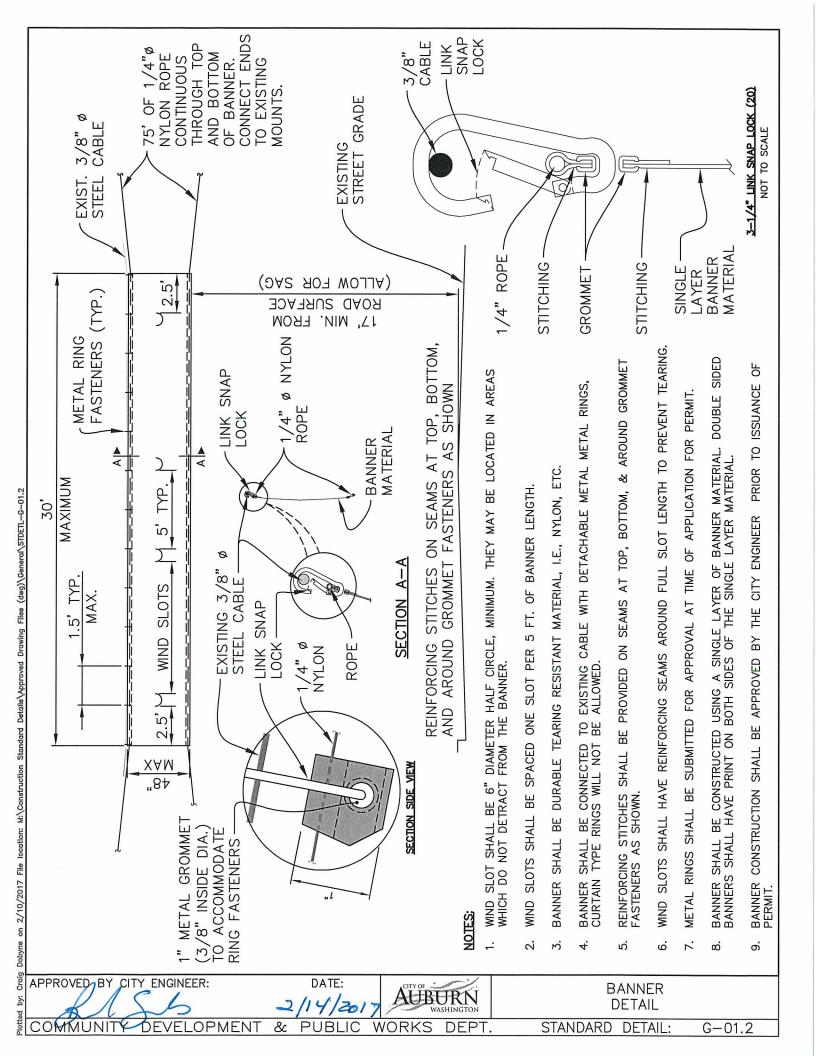
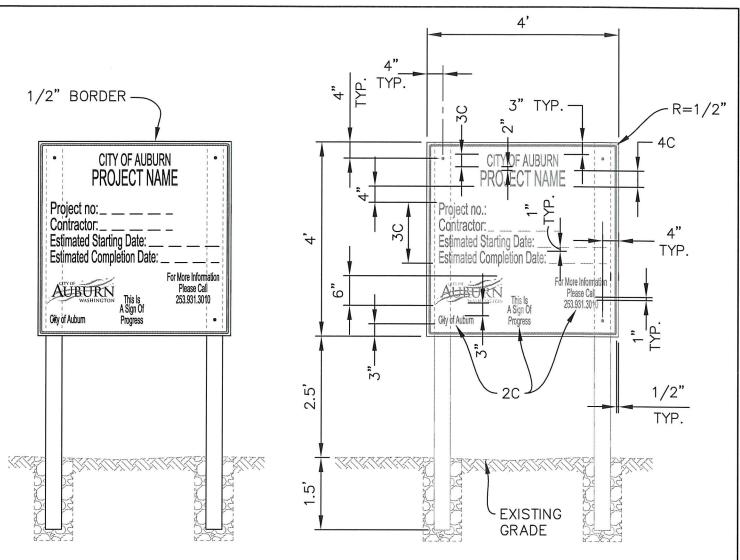
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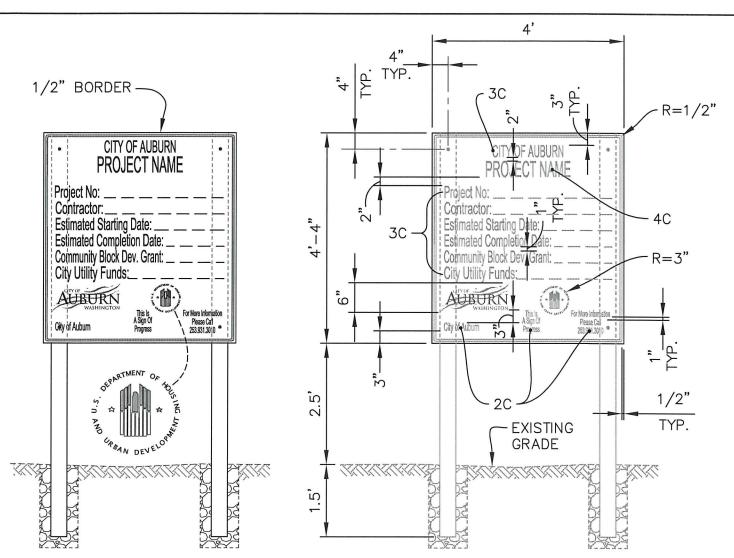




CONSTRUCTION NOTES:

- 1. SIGN BOARD SHALL BE CONSTRUCTED FROM 4'x4'x3/4" EXTERIOR MARINE PLYWOOD.
- 2. ALL LETTERS AND NUMERALS SHALL BE SERIES C.
- 3. LETTERING SHALL BE BLACK ON WHITE BACKGROUND USING 3M SCOTCHLITE EC FILM SERIES 1700 OVER 3M DIAMOND GRADE VIP OR BETTER.
- 4. SIGN AND POSTS SHALL BE PLANTED INTO AN UNYIELDING SOIL AND REINFORCED BY TAMPING GRAVEL OR SMALL ROCKS WHEN NECESSARY TO ASSURE RESISTANCE AGAINST STRONG WIND. BRACING MAY BE REQUIRED AT SOME LOCATIONS AS DIRECTED BY THE ENGINEER.
- 5. SIGN BOARD SHALL BE FABRICATED AND MOUNTED ON 2 EACH 4"x4"x8' POSTS WITH THE FOLLOWING GALVANIZED FASTENERS AND SIZES AS INDICATED:
 - 4 EA. 1/4" DIA.x6"
 - 4 EA. 1/4" NUTS
 - 8 EA. 1/4" WASHERS





CONSTRUCTION NOTES:

- SIGN BOARD SHALL BE CONSTRUCTED FROM 3/4" EXTERIOR MARINE PLYWOOD. 1.
- 2. ALL LETTERS AND NUMERALS SHALL BE SERIES C.
- 3. LETTERING SHALL BE BLACK ON WHITE BACKGROUND USING 3M SCOTCHLITE EC FILM SERIES 1700 OVER 3M DIAMOND GRADE VIP OR BETTER.
- SIGN AND POSTS SHALL BE PLANTED INTO AN UNYIELDING SOIL AND REINFORCED 4. BY TAMPING GRAVEL OR SMALL ROCKS WHEN NECESSARY TO ASSURE RESISTANCE AGAINST STRONG WIND. BRACING MAY BE REQUIRED AT SOME LOCATIONS AS DIRECTED BY THE ENGINEER.
- 5. SIGN BOARD SHALL BE FABRICATED AND MOUNTED ON 2 EACH 4"x4"x8' POSTS WITH THE FOLLOWING GALVANIZED FASTENERS AND SIZES AS INDICATED:

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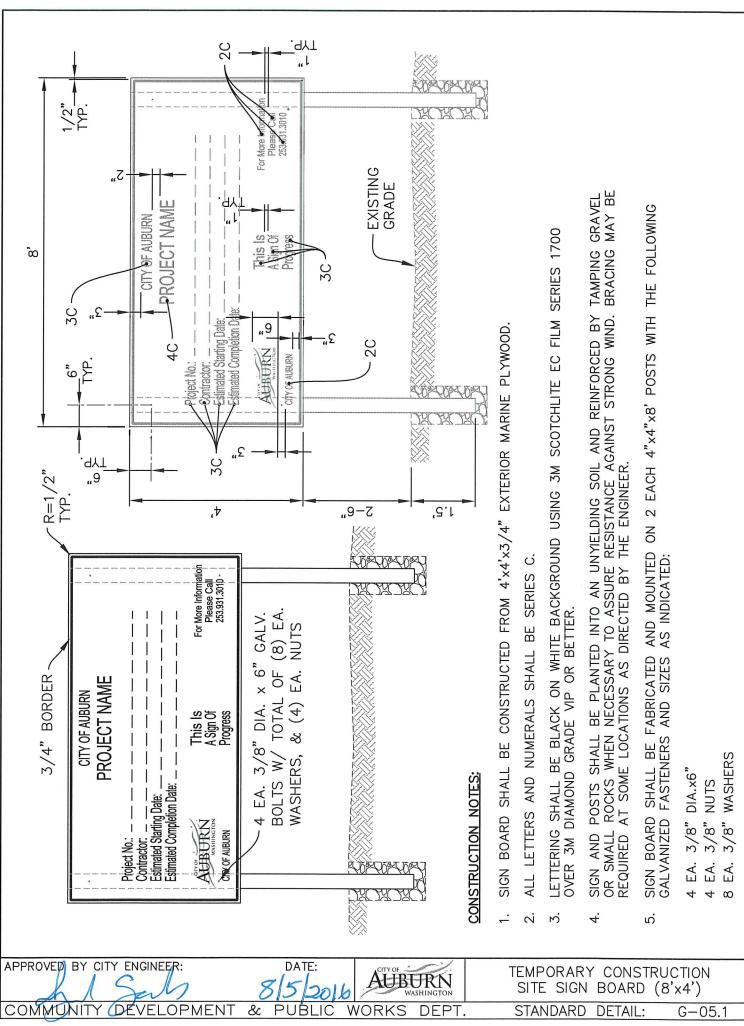
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- 4 EA. 1/4" DIA.x6"
- 4 EA. 1/4" NUTS
- 8 EA. 1/4" WASHERS

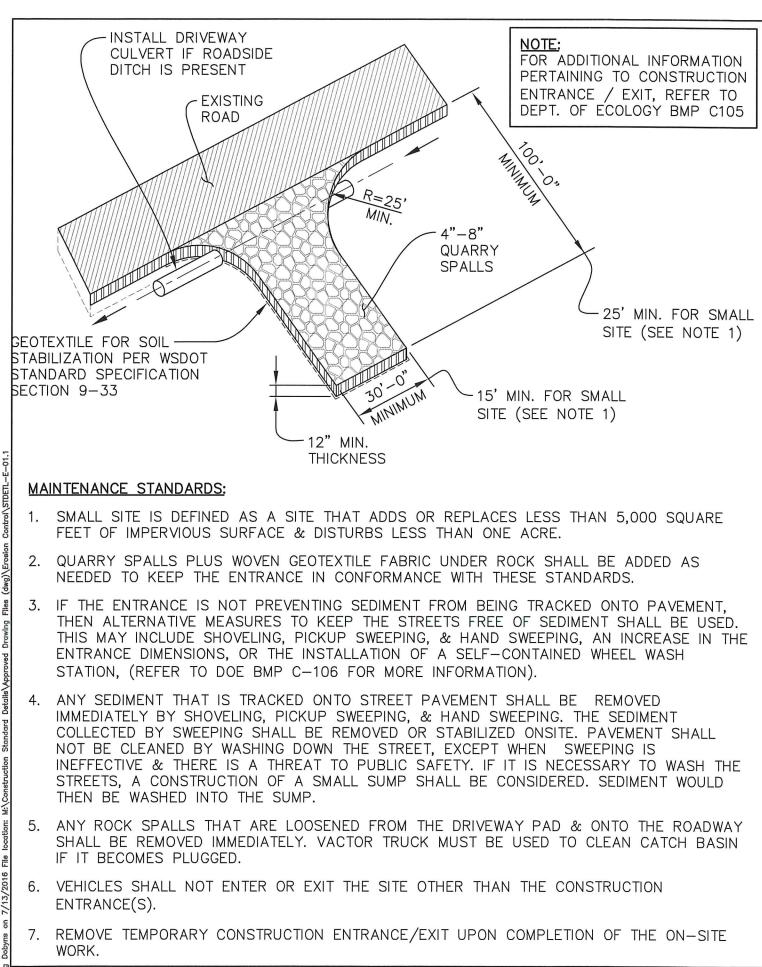
DEVELOPMENT

COMMUNITY

TEMPORARY H.U.D. CONSTRUCTION SITE SIGN BOARD (4'x4') STANDARD DETAIL: G-04.1



on 7/13/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\General\STDETL-G-05.1 Craig Dobyns plotted by:



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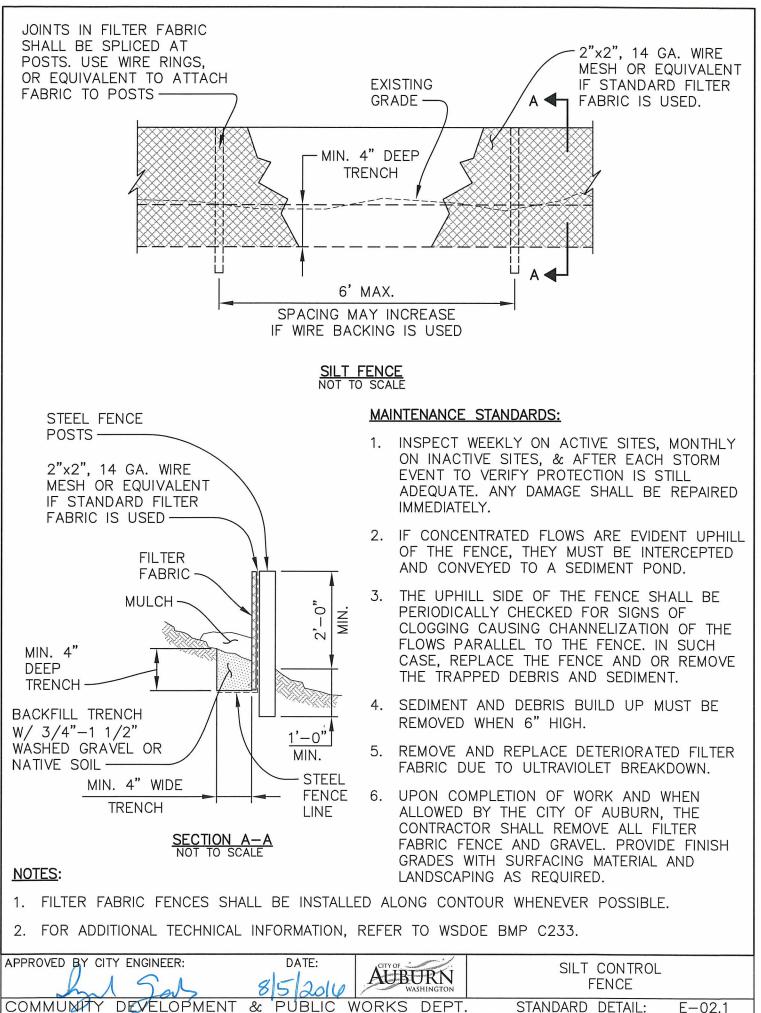
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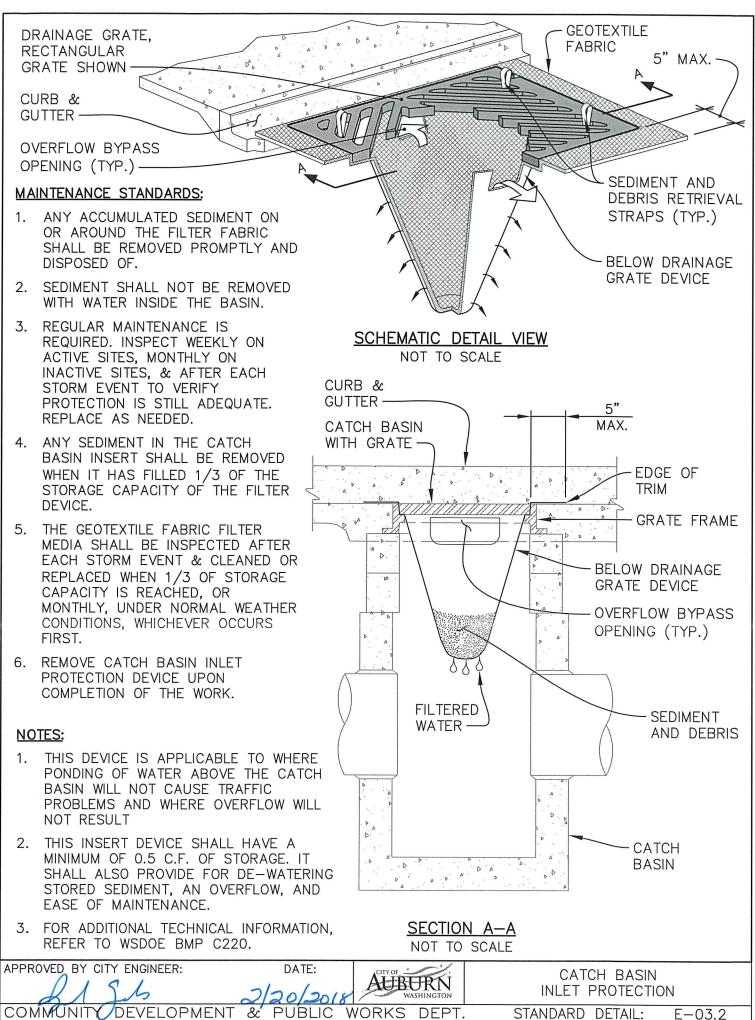
APPROVED BY CITY ENGINEER: COMMUNITY DÉVELOPMENT & PUBLIC WORKS DEPT.

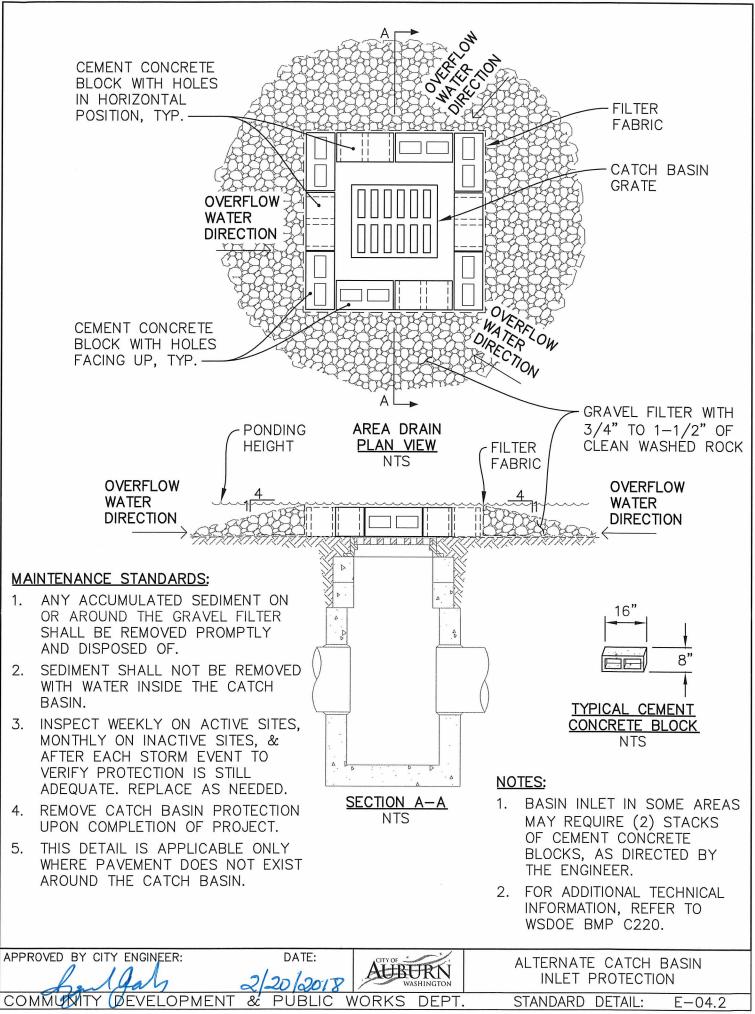
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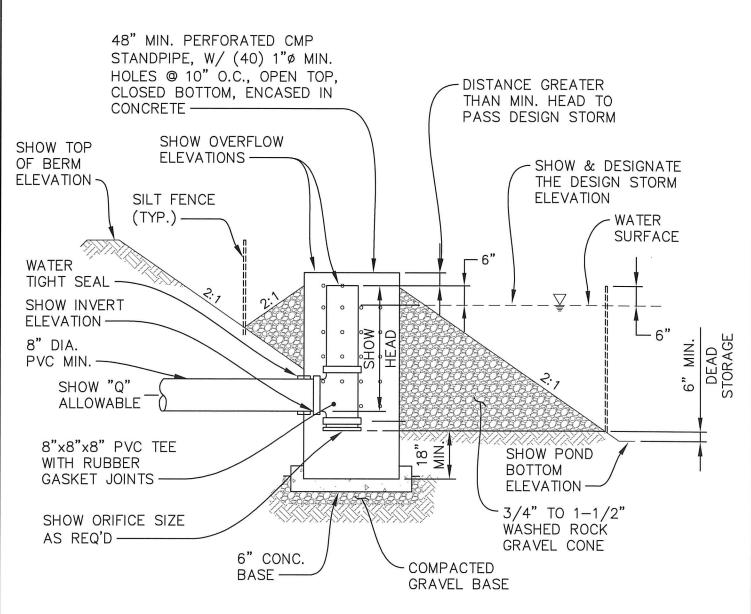
STANDARD DETAIL: E-01.1



by: Craig Dobyns on 7/13/2016 File location: Mi/Construction Standard Details/Approved Drawing Files (dwg)/Erosion Control/STDETL-







- 1. PROVIDE A RIP RAP LINED SPILLWAY, 6" MINIMUM ABOVE STANDPIPE, OPEN TOP.
- 2. A MULTIPLE PHASE POND SEPARATED BY PERVIOUS GRAVEL WINDOW MAY BE REQUIRED TO CONTROL AND TRAP SEDIMENT, AND TO REDUCE DISCHARGE ENERGY.
- 3. POND CHARACTERISTICS SUCH AS DESIGN VOLUME, INFLOW, OUTFLOW, AND MAXIMUM HEAD SHALL BE SHOWN ON PLANS.
- 4. THE OUTLET PIPE SHALL BE A MINIMUM OF 8" DIAMETER.
- 5. INDICATE SEASONAL HIGH GROUND WATER ELEVATION.
- 6. THIS DETAIL IS FOR DESIGN GUIDANCE ONLY, THE ENGINEER IS RESPONSIBLE FOR PROVIDING THE NECESSARY ELEVATIONS AND ORIFICE SIZES.

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7. REFER TO WSDOE BMP 220 FOR ADDITIONAL INFORMATION.

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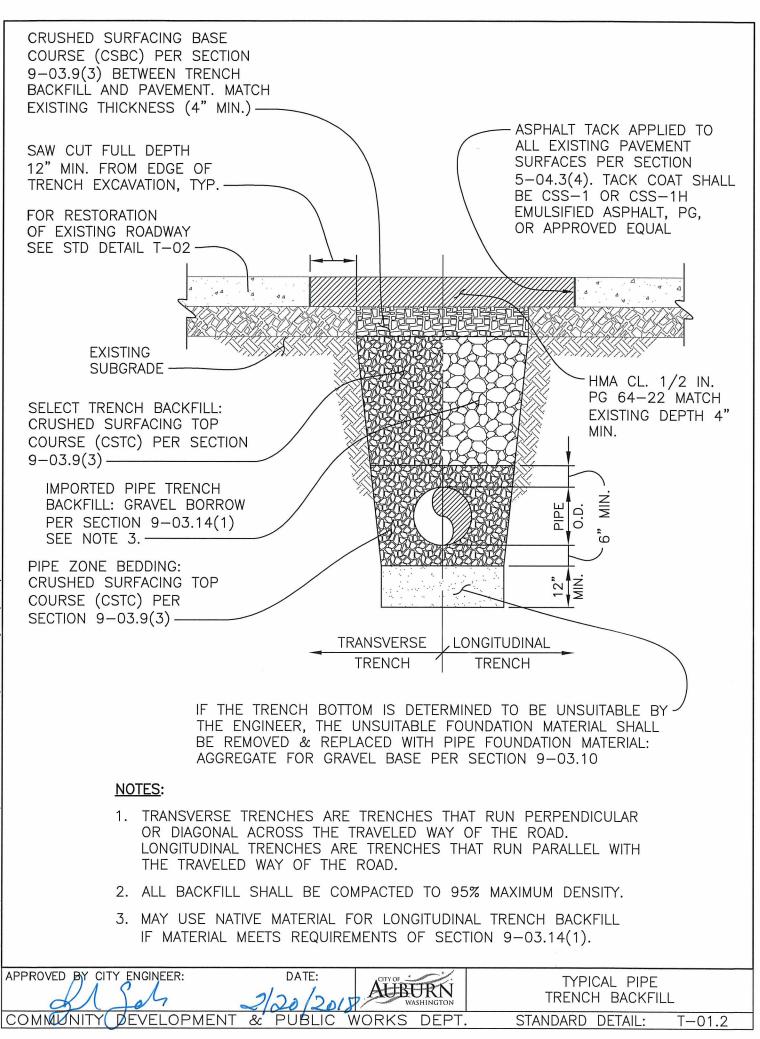
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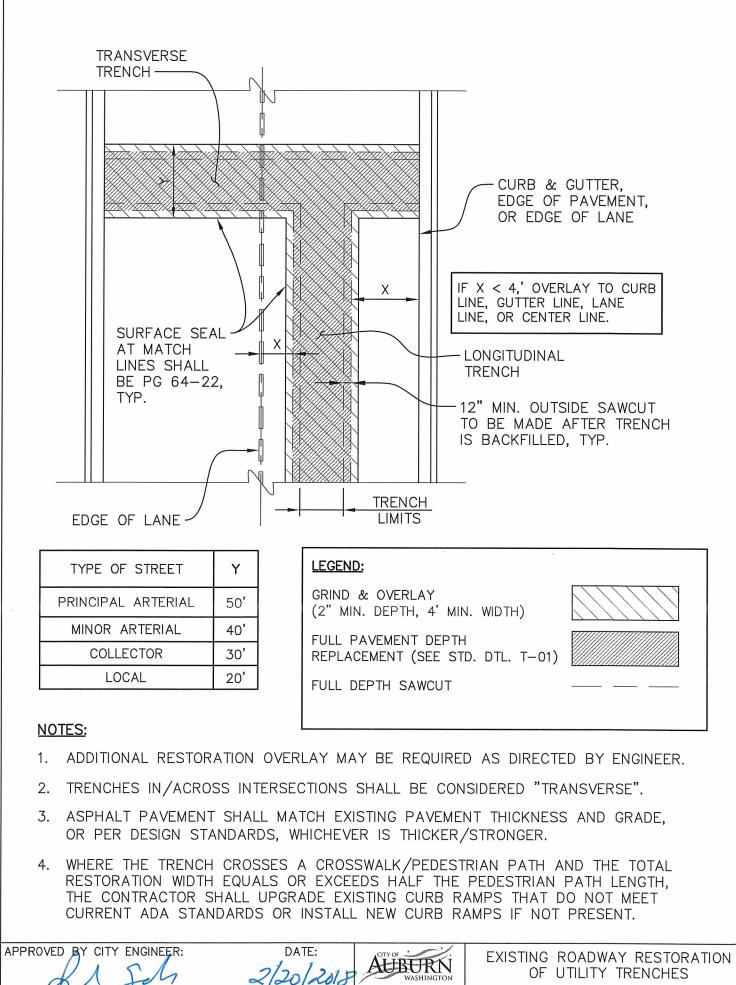


GRADING/EROSION DISCHARGE CONTROL STRUCTURE

E-05.1

STANDARD DETAIL:



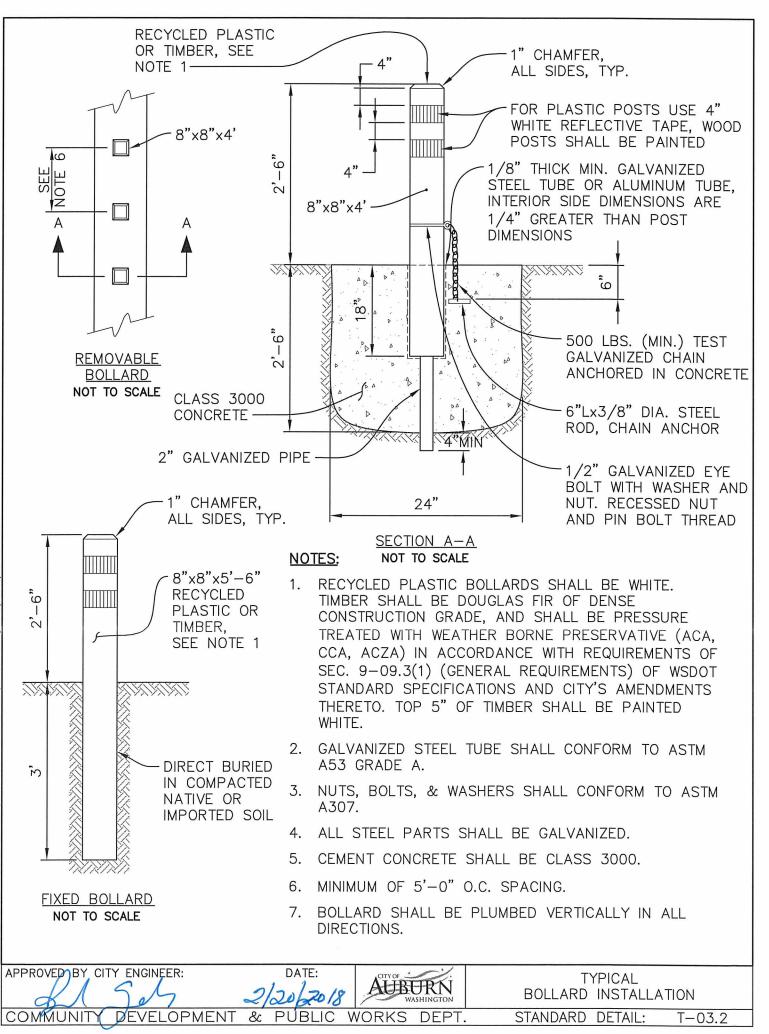


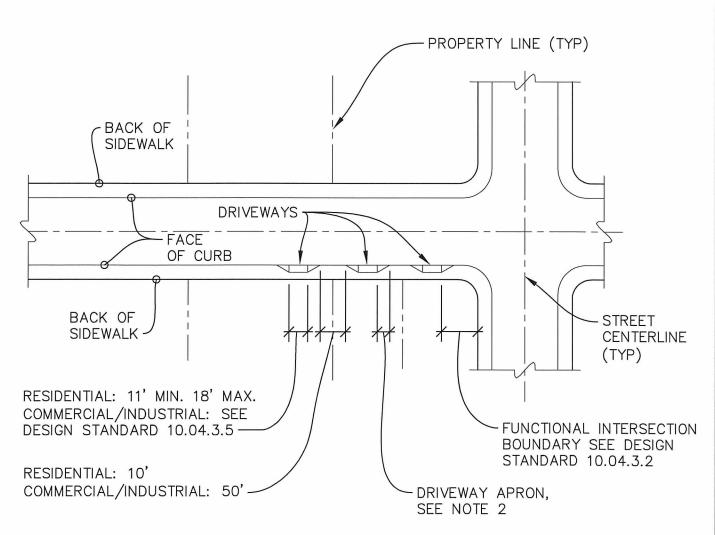
DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL:

T-02.2

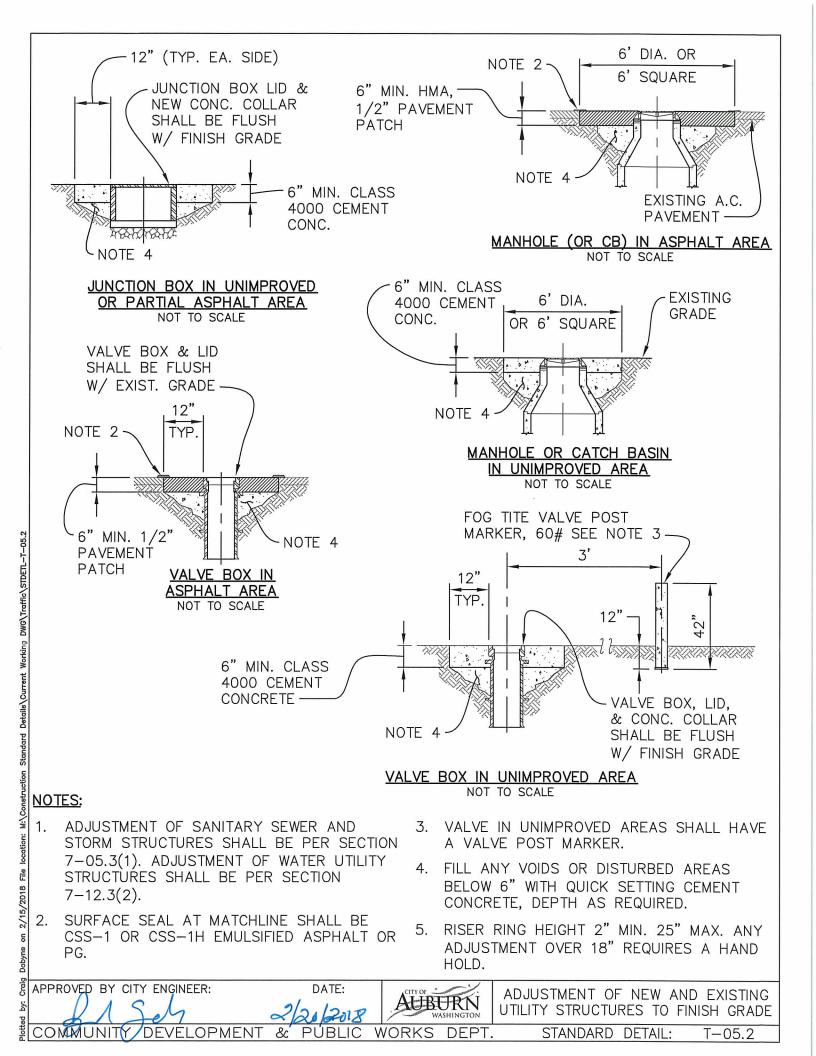
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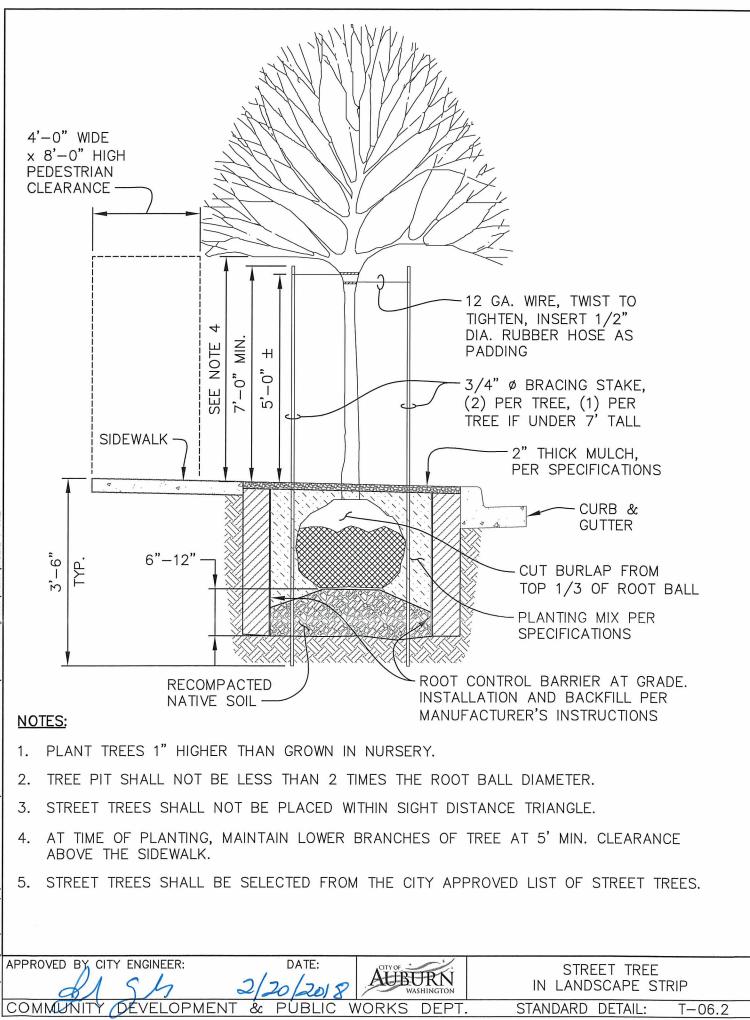


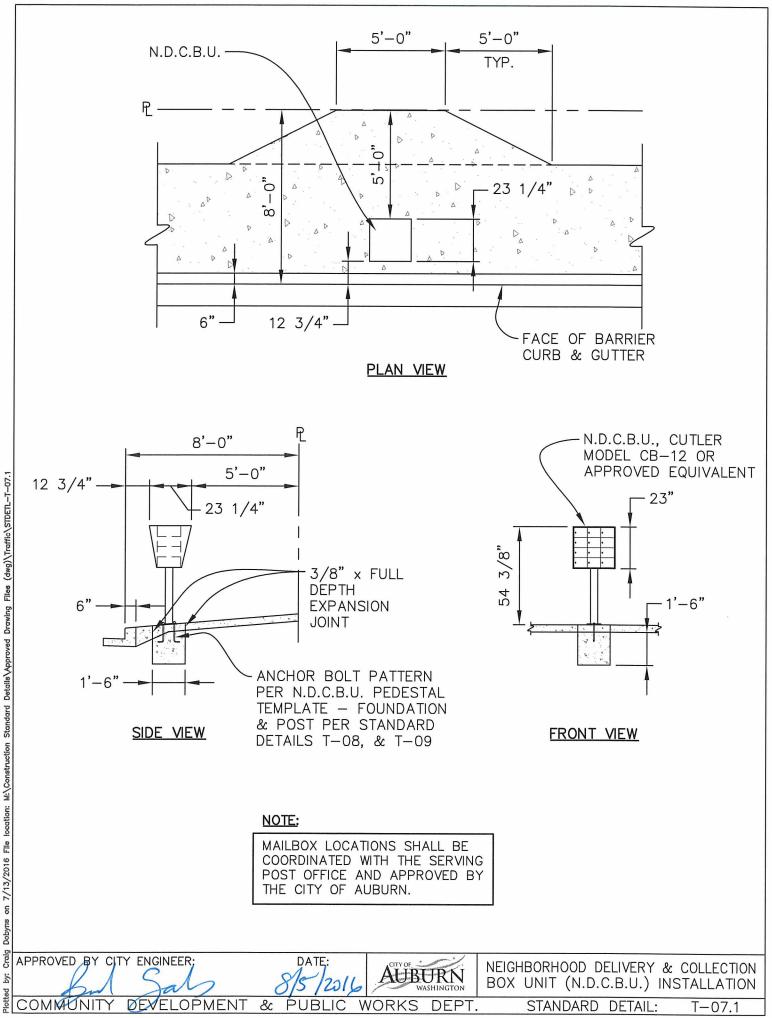


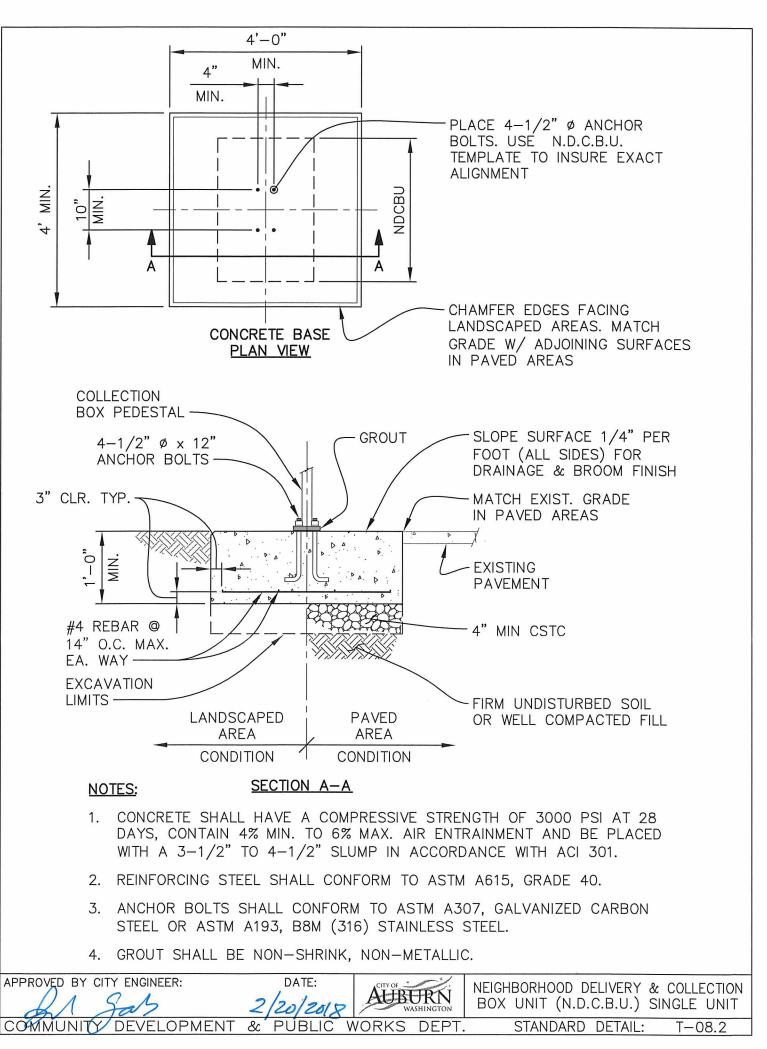
- 1. DRIVEWAY WIDTHS AND LOCATIONS SHALL BE IN ACCORDANCE WITH SECTION 10.04 OF THE DESIGN STANDARDS.
- 2. DRIVEWAY TO BE CONSTRUCTED PER STANDARD DETAIL T-34 OR T-35.
- 3. RESIDENTIAL DRIVEWAYS SERVING 2 OR MORE LIVING UNITS SHALL BE LIGHT COMMERCIAL/INDUSTRIAL DRIVEWAYS.

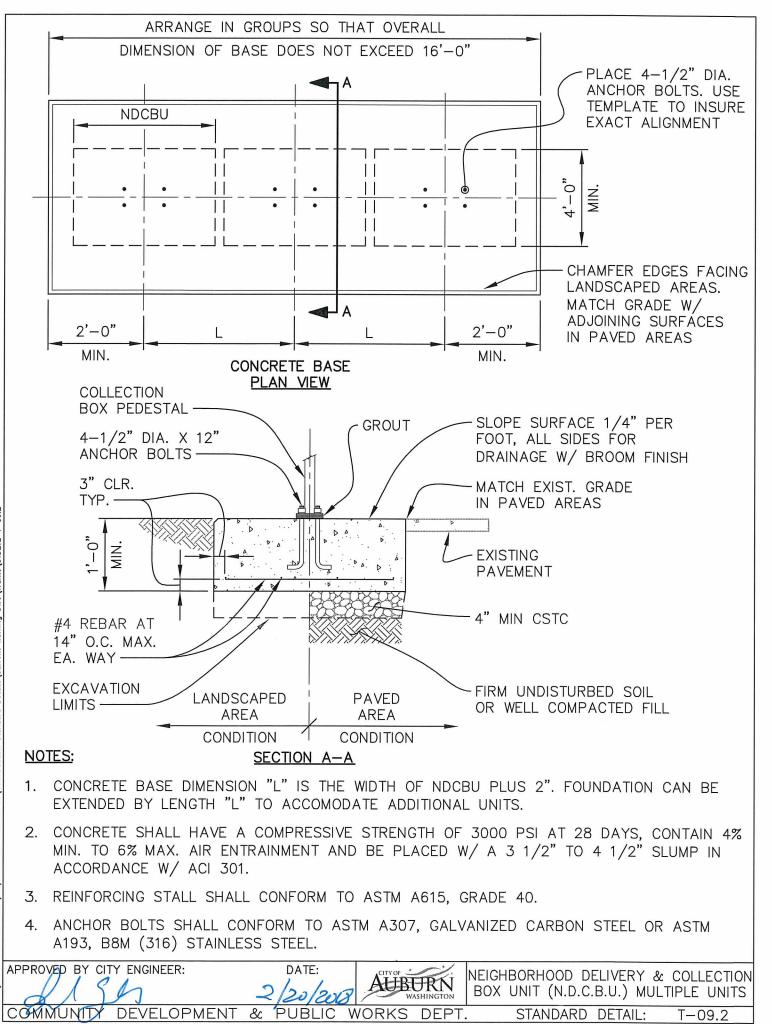
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This share	PROVED BY CITY ENGINEER: DATE: 2/20/20/8 DEFINITION DRIVEWAY WIDTHS AND LOCATION
	OMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: T-04.3

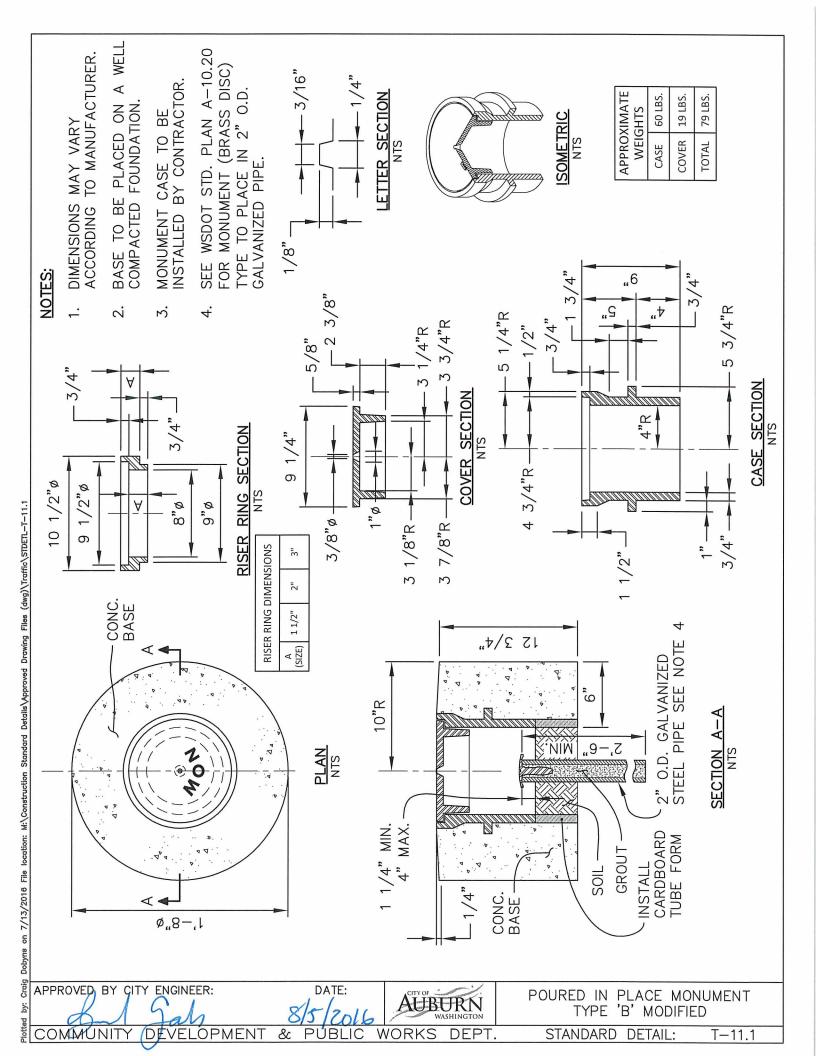


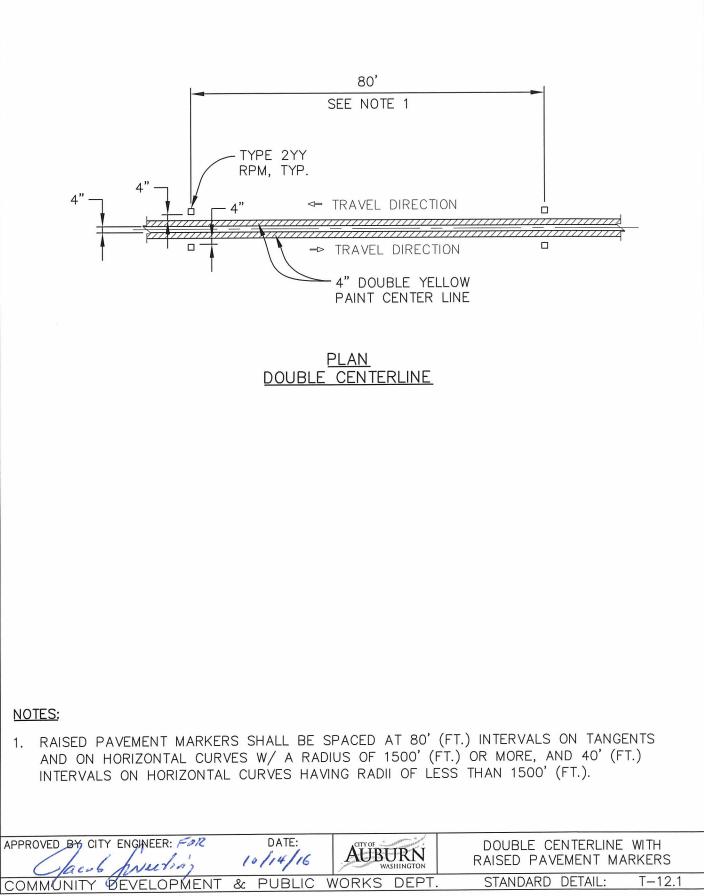




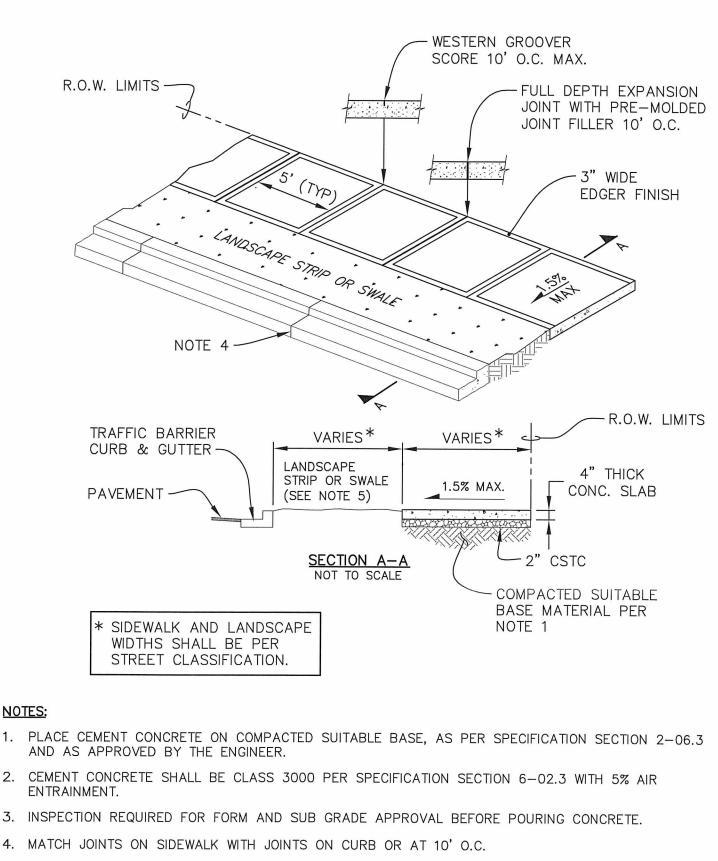








by: Craig Dobyns on \$/12/2016 File location: M:\Construction Standard Details\Approved Brawing Files (dwg)\Traffic\STDETL-T-12.1



5. LANDSCAPE STRIP SHALL GENERALLY BE GRADED TOWARDS THE CURB AT 1.5%. OTHER GRADES MAY BE ALLOWED WHERE IT CAN BE DEMONSTRATED TO NOT CAUSE DRAINAGE OR MAINTENANCE ISSUES.

& PUBLIC WORKS DEPT.

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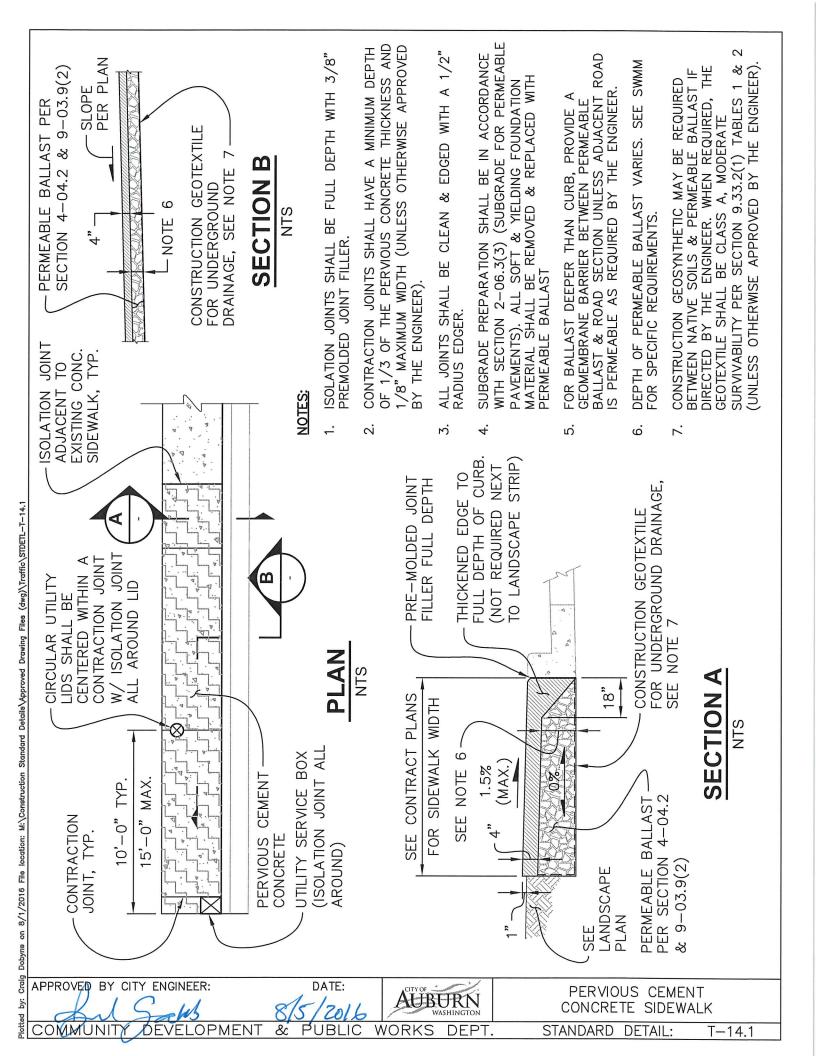
DEVELOPMENT

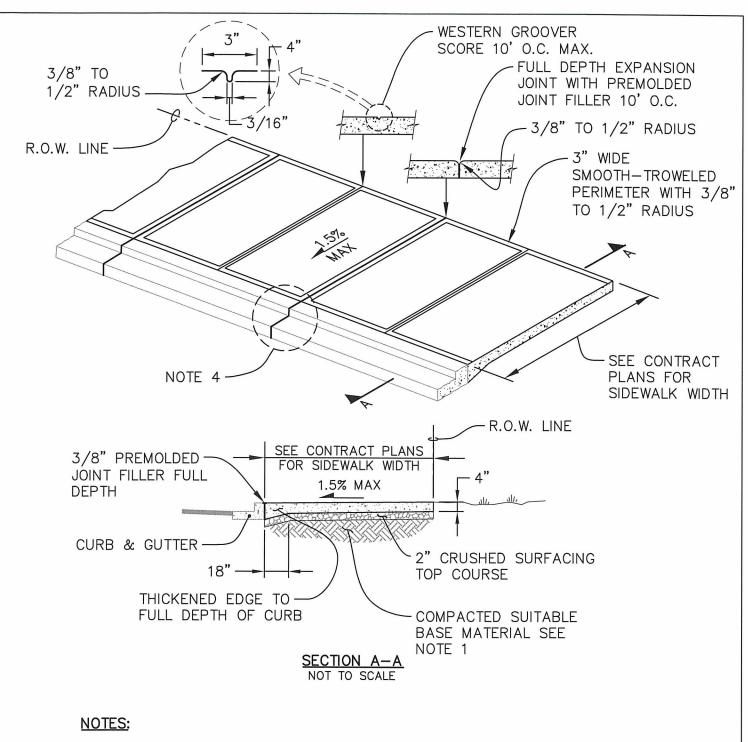
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on 2/2/2018 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDETL-T-13.2

CEMENT CONCRETE SIDEWALK WITH LANDSCAPE STRIP

STANDARD DETAIL: T-13.2





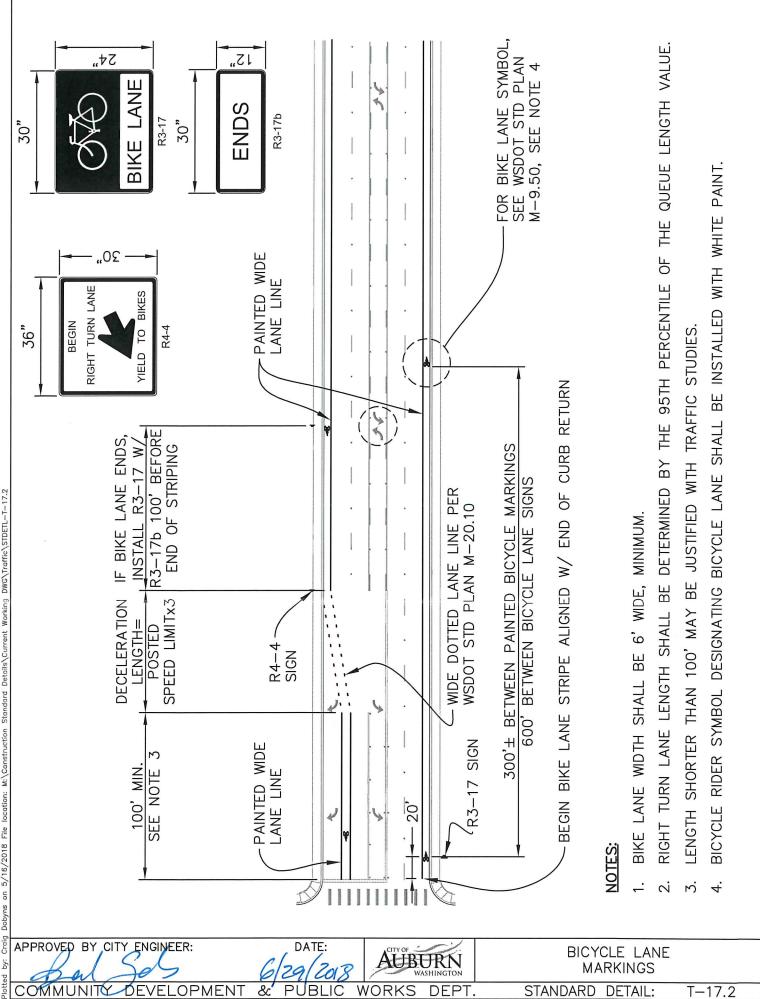
- 1. PLACE CEMENT CONCRETE ON COMPACTED SUITABLE BASE, AS PER SPECIFICATION SECTION 2-06.3 AND AS APPROVED BY THE ENGINEER.
- 2. CEMENT CONCRETE SHALL BE CLASS 3000 PER SPECIFICATION SECTION 6 - 02.3.
- INSPECTION REQUIRED FOR FORM AND SUB GRADE APPROVAL BEFORE POURING CONCRETE.
- 4. MATCH EXPANSION JOINTS ON SIDEWALK WITH EXPANSION JOINTS ON CURB OR AT 10' O.C.

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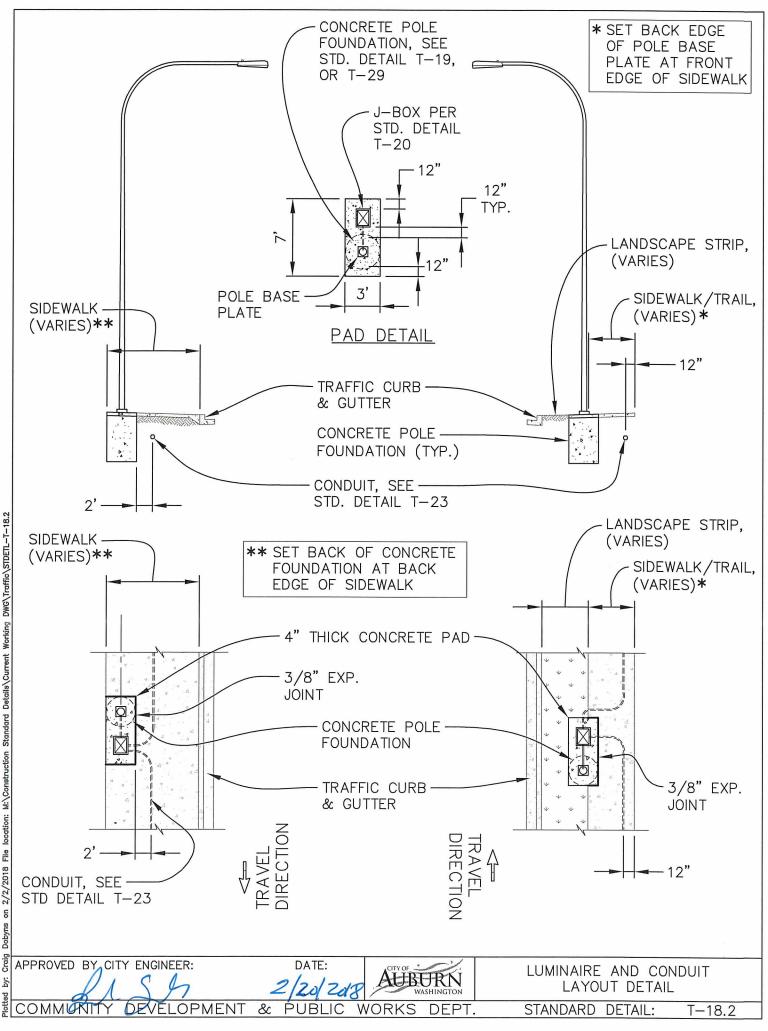
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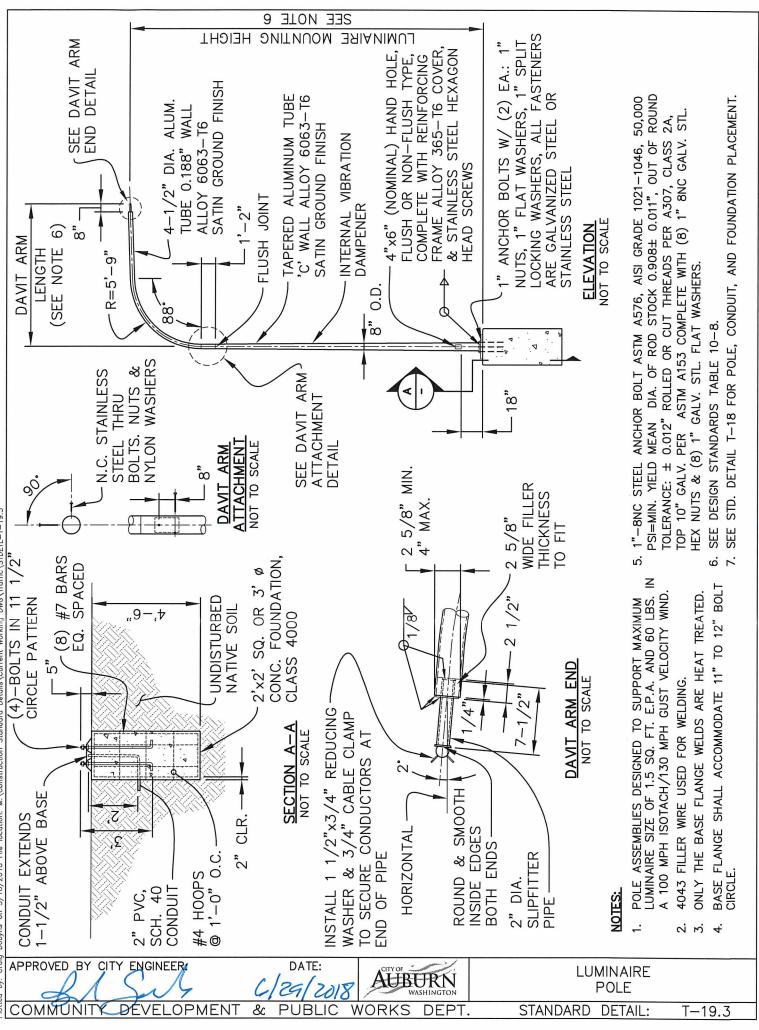


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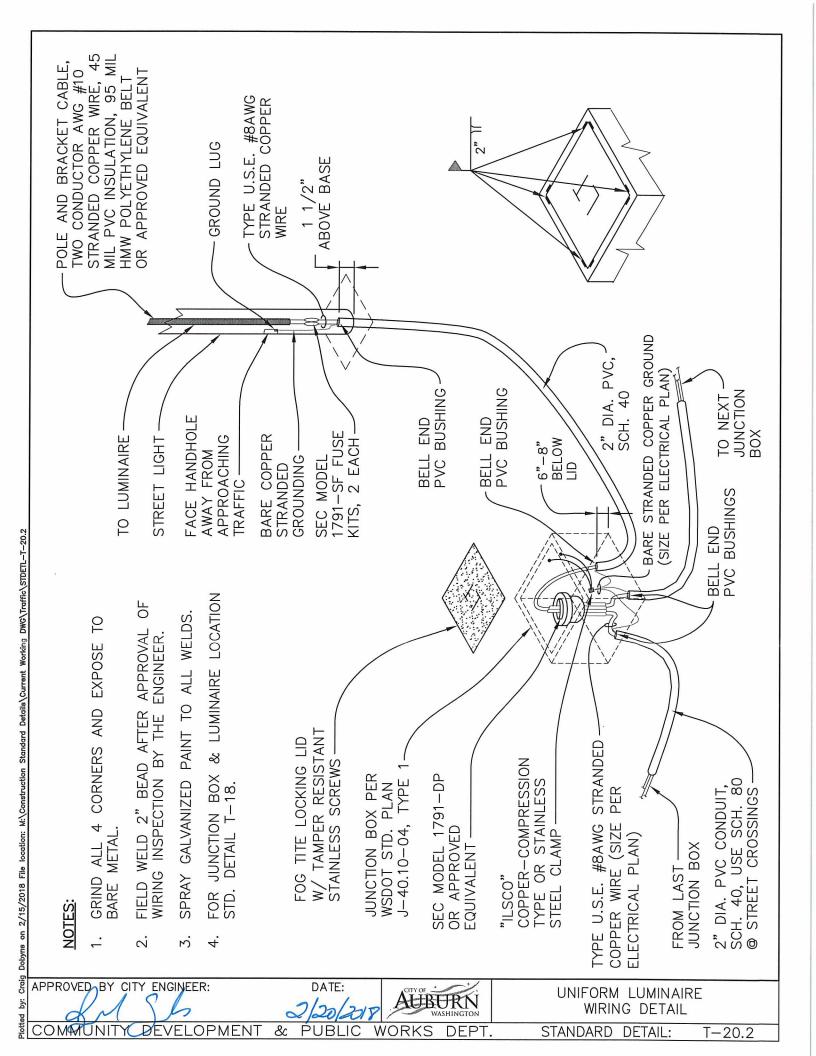


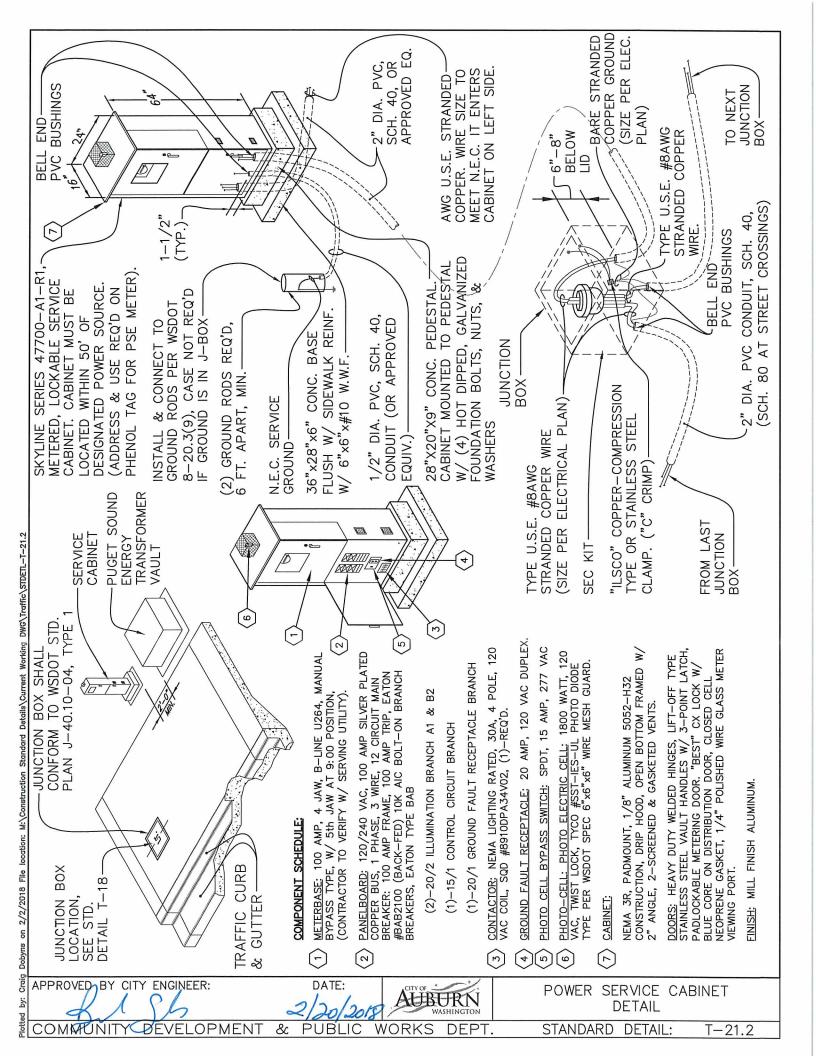
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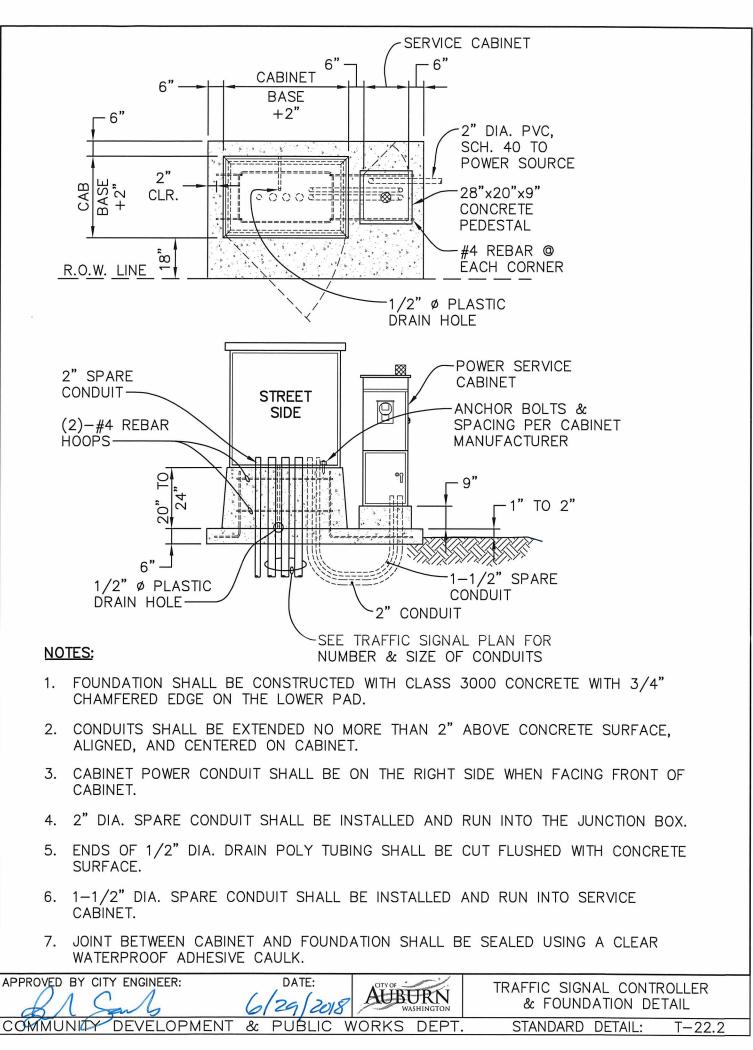


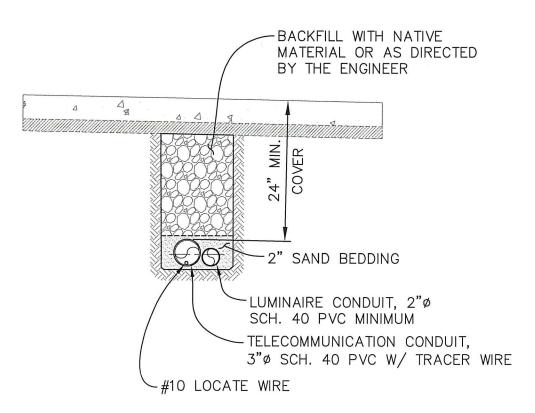


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DEVELOPMENT

1. PULL STRING SHALL BE INSTALLED IN ALL SPARE CONDUIT.

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2. SEE STD. DETAIL T-18 FOR CONDUIT PLACEMENT.

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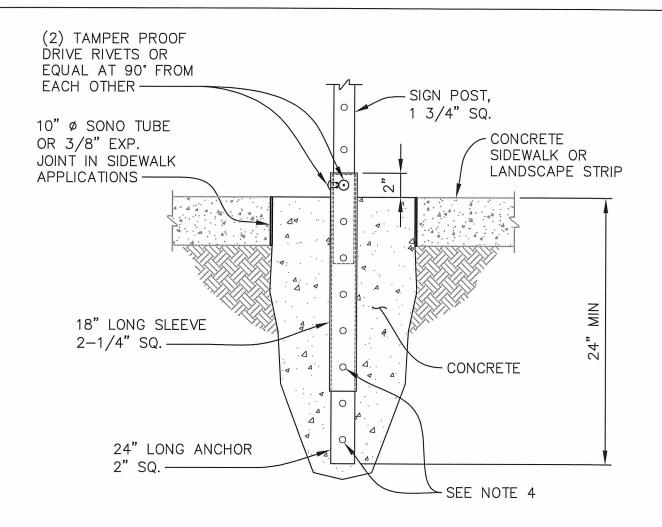
APPROVED BY CITY ENGINEER:

COMMUNITY

TELLECOMMUNICATION AND LUMINAIRE ELECTRICAL TRENCH

T-23.2

STANDARD DETAIL:



- 1. ALL TUBING MATERIAL SHALL BE "UNISTRUT TELESPAR" TYPE GALVANIZED STEEL (ASTM A570 GRADE 33) OR ENGINEER APPROVED EQUIVALENT.
- 2. SIDEWALKS AND PAVED AREAS SHALL BE CORE DRILLED BEFORE SIGN INSTALLATION.
- 3. SIGNS SHALL HAVE A MIN. HEIGHT OF 7 FT. FROM THE LOWER EDGE OF THE SIGN TO SIDEWALK GRADE, AND A 2 FT. LATERAL OFFSET FROM THE FACE OF CURB TO THE NEAR EDGE OF SIGN. SIGN LOCATION SHALL BE AS SHOWN ON PLANS AND PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D).

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4. WRAP ANCHOR TUBING WITH TAPE BEFORE PLACING IN CONCRETE.

DATE:

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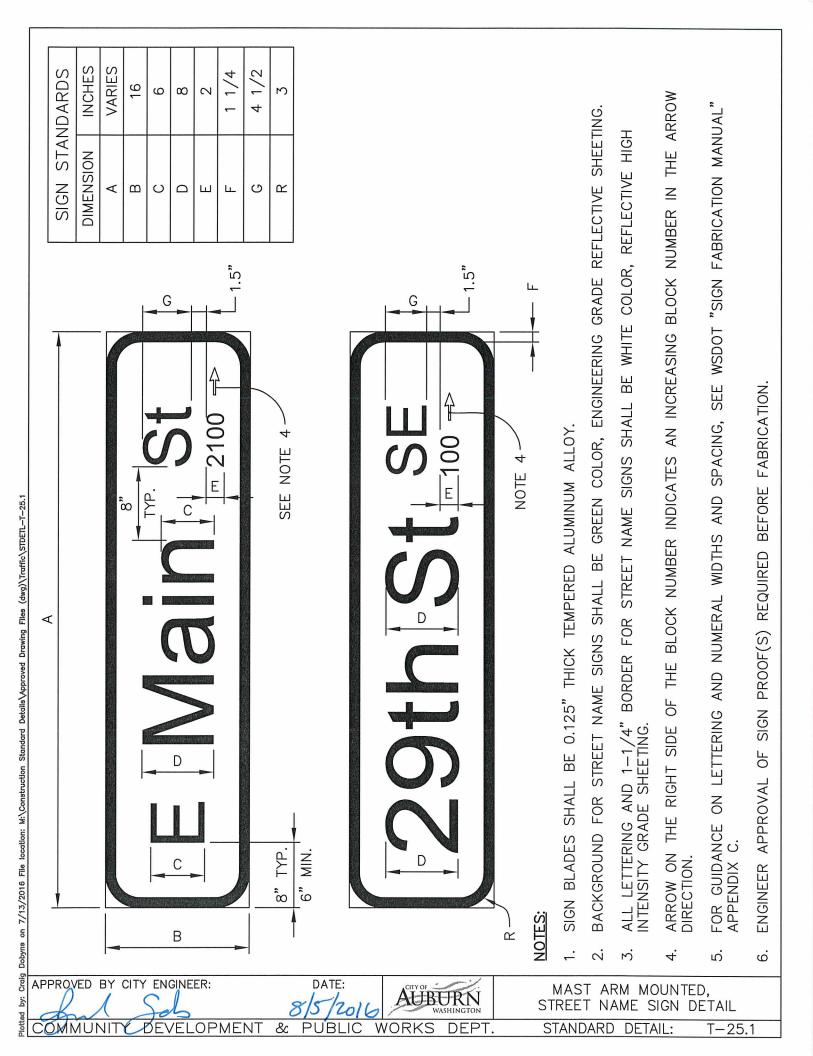
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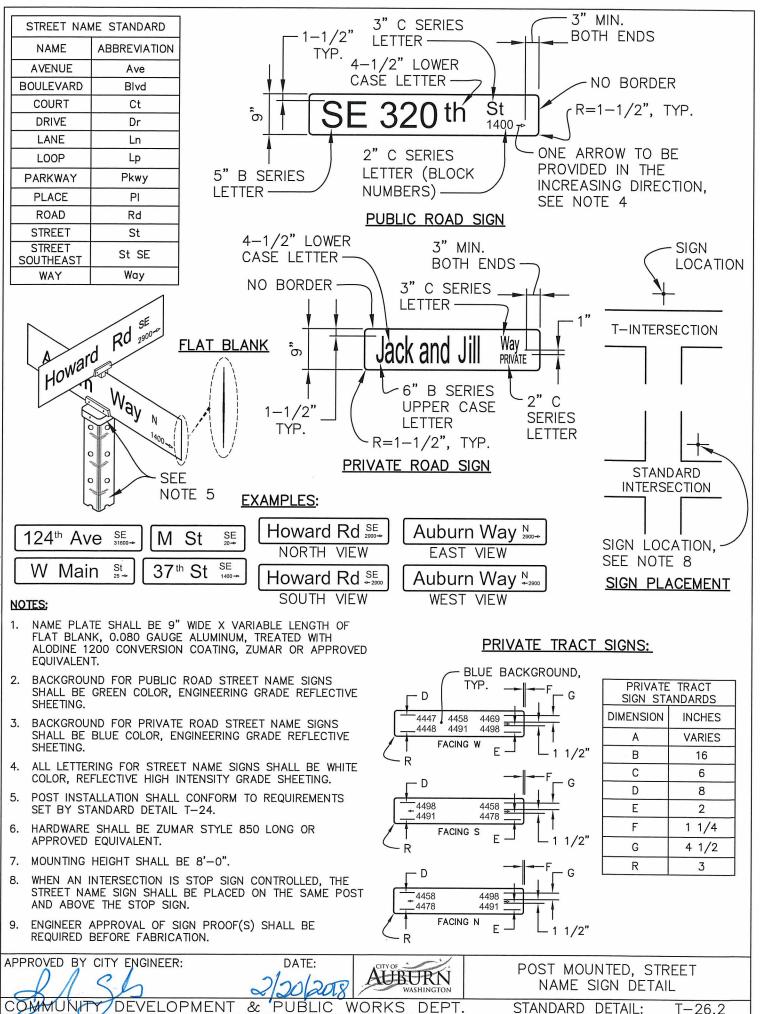
5. DEMONSTRATE SIGN POST IS REMOVABLE BEFORE RIVETING.

TYPICAL SIGN POST INSTALLATION

STANDARD DETAIL:

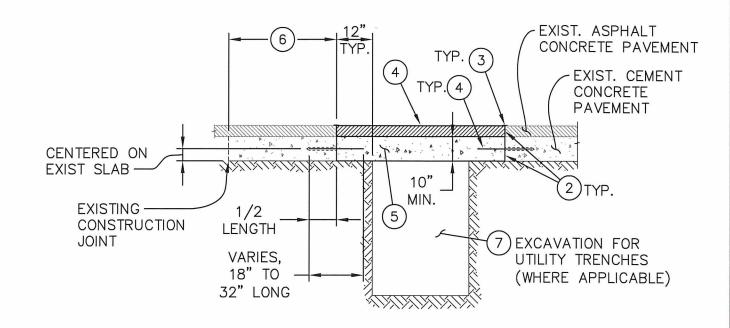
T-24.2





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STANDARD DETAIL:



- FOR TRANSVERSE JOINTS CONSTRUCTION, THE DOWEL BARS SHALL BE 1 1/2" DIA. 1 x 18" LONG AND INSTALLED AT 12" ON CENTER. FOR LONGITUDINAL JOINTS CONSTRUCTION, TIE BARS SHALL BE $\#5 \times 32$ " LONG AND INSTALLED AT 36" ON CENTER. DRILL HOLES TO EXISTING ADJACENT CONCRETE PANELS AND PARALLEL TO EXISTING GRADE. HOLES SHALL BE BLOWN CLEAN WITH COMPRESSED AIR PRIOR TO APPLYING EPOXY RESIN INTO THE HOLES. THEN INSERT EPOXY RESIN COATED BARS IN THE HOLES SUCH THAT THE BACK OF THE HOLES ARE FILLED FIRST.
- APPLY HOT POURED ELASTIC TYPE SEALANT TO ENTIRE EDGE AND FULL DEPTH OF 2 THE JOINTS BEFORE PAVING.
- APPLY SURFACE SEAL WITH ASPHALT CEMENT AR-4000 AT MATCHLINES. 3
- 4 WHERE REPLACEMENT OF EXISTING ASPHALT CONCRETE PAVEMENT IS REQUIRED. APPLY NEW HMA CL. 1/2" TO MATCH EXISTING THICKNESS.
- (5) MATCH THICKNESS OF EXISTING CEMENT CONCRETE PAVEMENT, BUT IN NO CASE SHALL IT BE LESS THAN 10". CEMENT CONCRETE SHALL BE CL. 4000 WITH 5% AIR ENTRAINMENT. TRAFFIC SHALL BE KEPT OFF NEW PAVEMENT FOR 7 DAYS OR UNTIL DESIGN STRENGTH IS ACHIEVED, WHICHEVER COMES FIRST.
- (6) WHENEVER A REMAINING CONCRETE PANEL IS 3' WIDE OR LESS IN ANY DIRECTION FROM EXISTING CONSTRUCTION JOINT TO NEW CONSTRUCTION JOINT, IT SHALL BE REMOVED AND REPLACED AS PART OF THE NEW PANEL.

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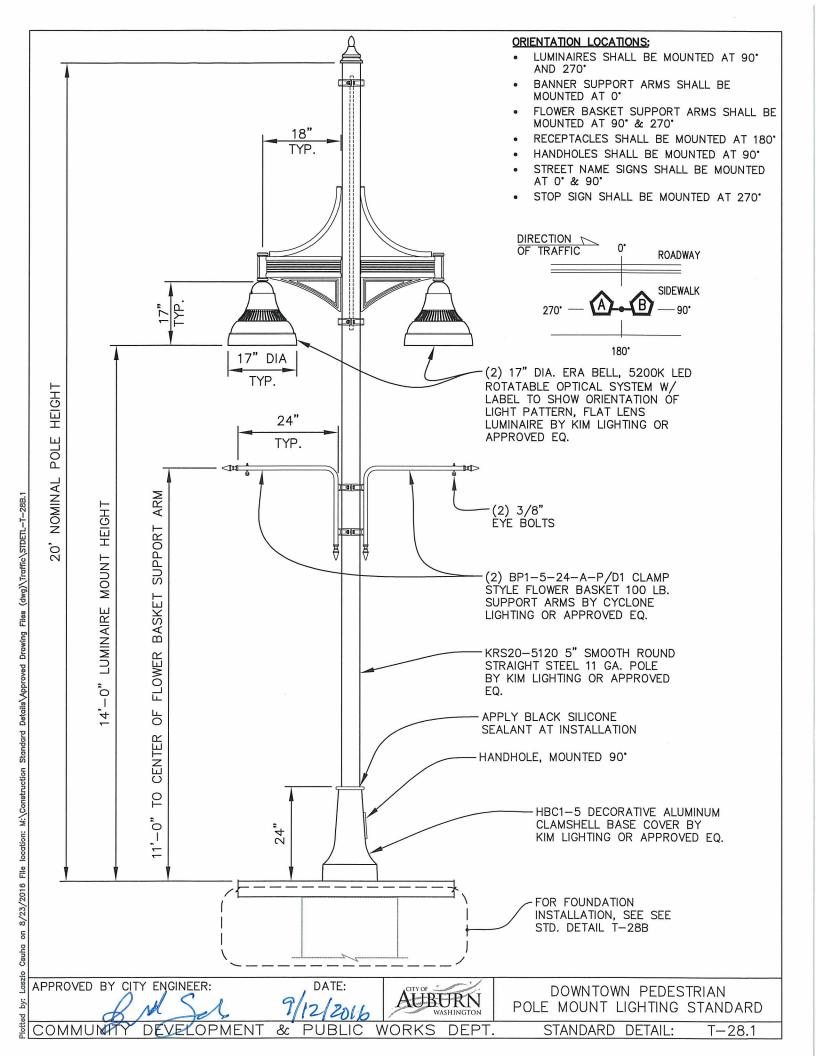
(7) BEDDING/BACKFILL SHALL BE PER STANDARD DETAIL T-01.

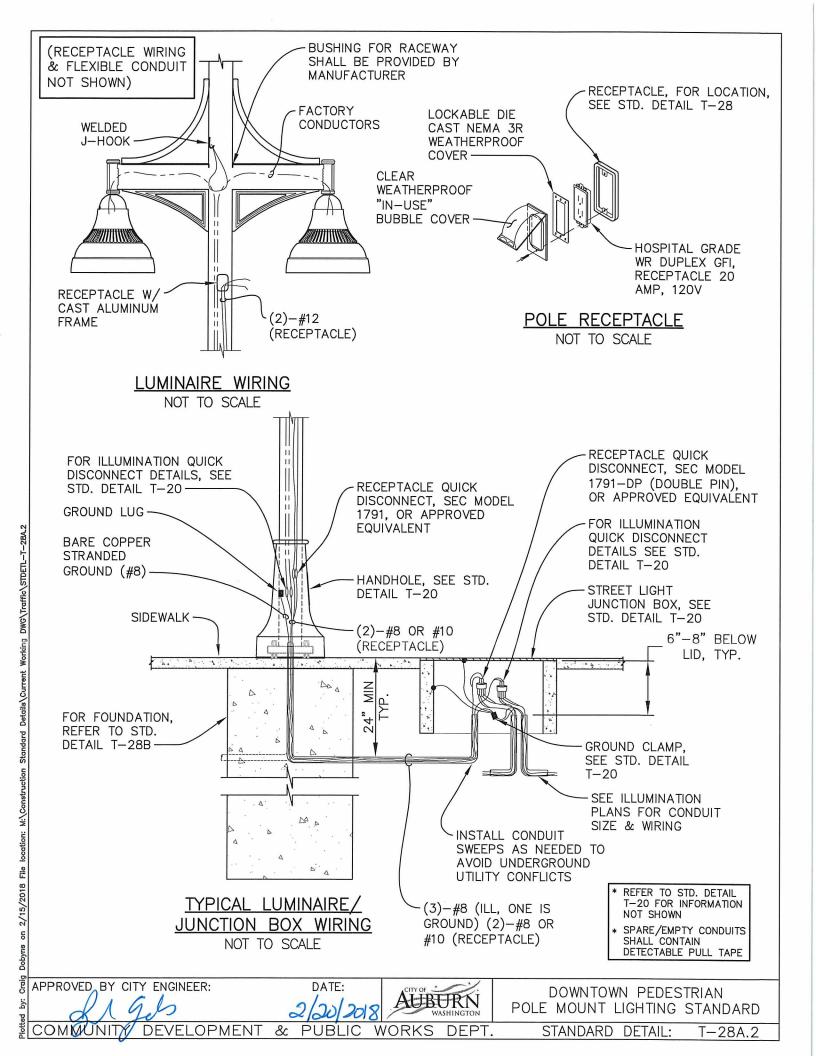
REPAIR OF EXISTING CEMENT CONCRETE PANEL IN ROADWAY

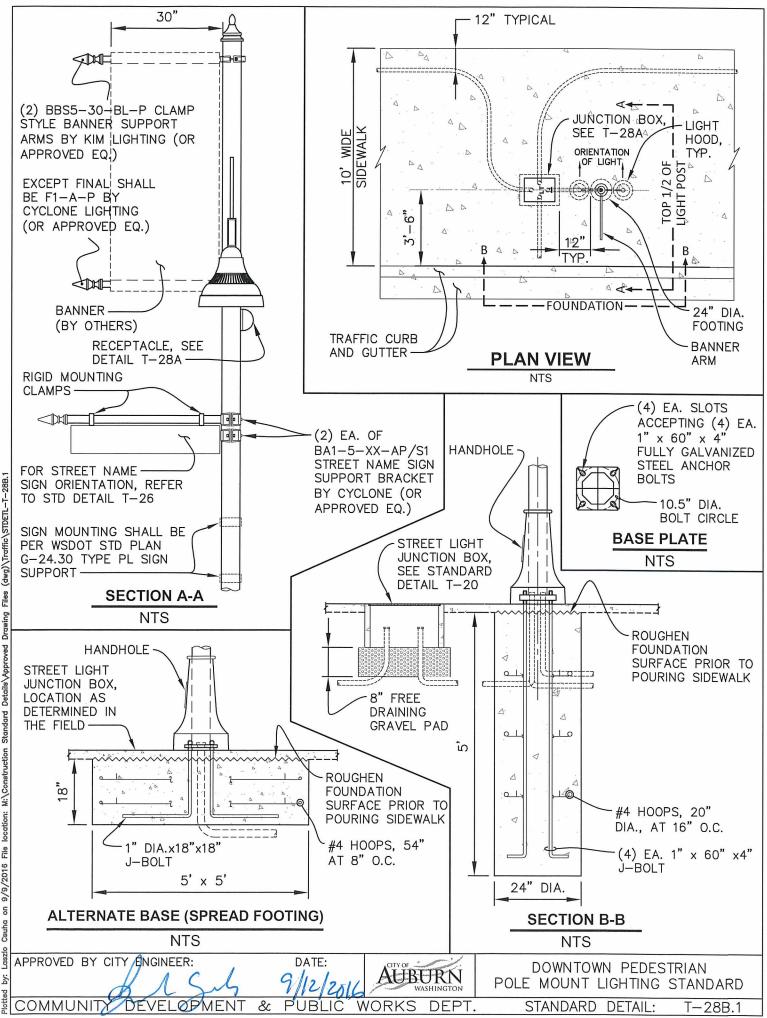
T - 27.1

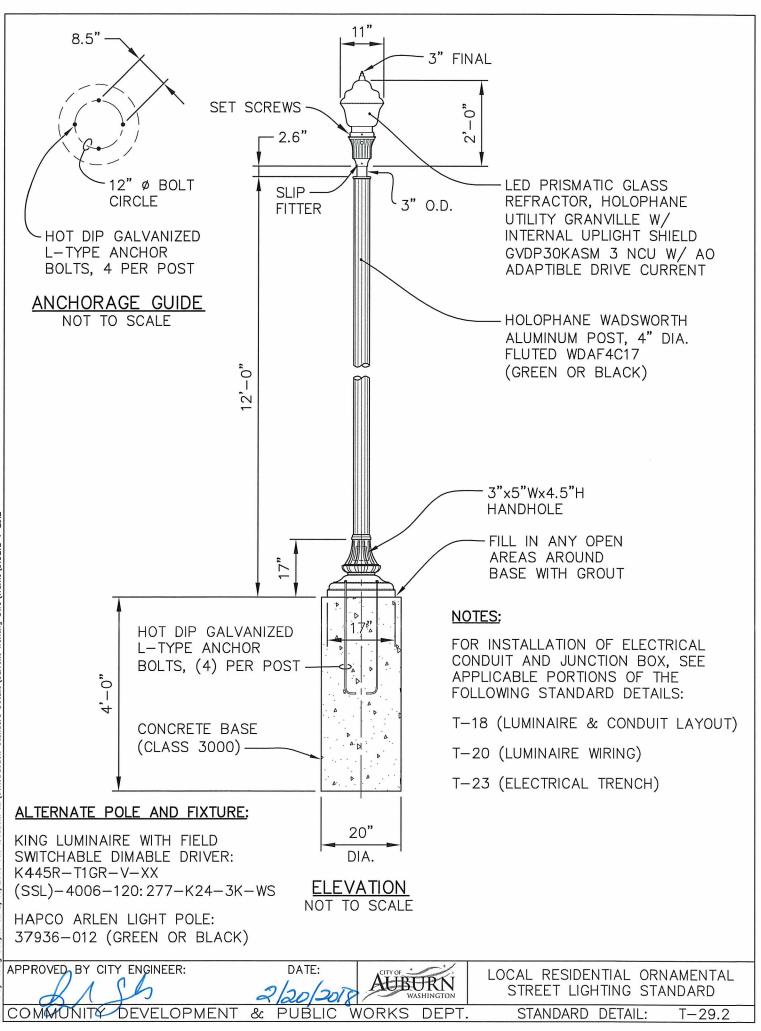
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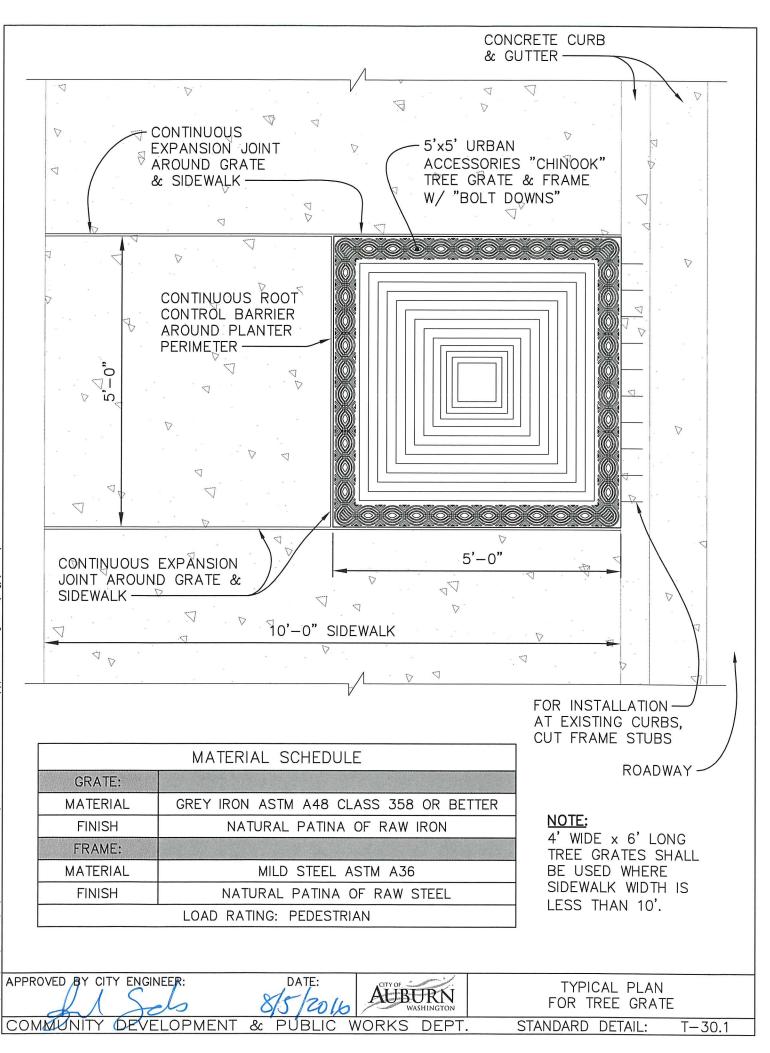
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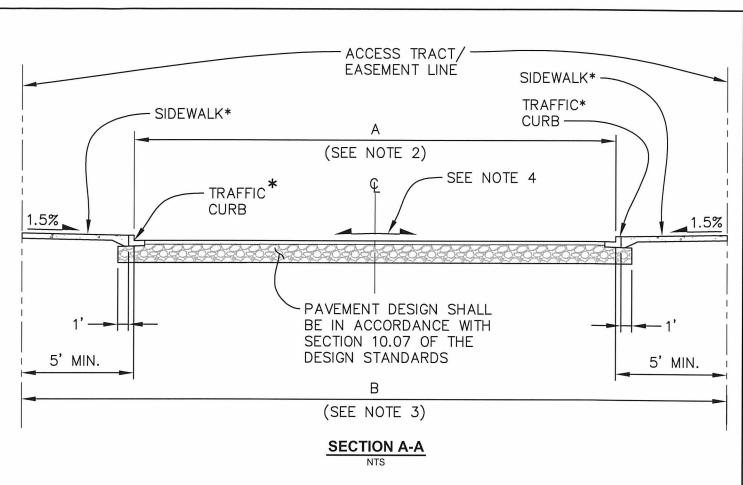












- 1. CEMENT CONCRETE TRAFFIC CURB & GUTTER SHALL BE IN ACCORDANCE WITH WSDOT STANDARD PLAN F-10.12
- 2. PAVEMENT WIDTHS:
 - A = 30' INDUSTRIAL
 - A = 24' COMMERCIAL
 - A = 20' RESIDENTIAL
- 3. EASEMENT/TRACK WIDTHS
 - B = 40' INDUSTRIAL
 - B = 34' COMMERCIAL
 - B = 25' RESIDENTIAL
- 4. ACCESS ROADS SHALL MEET SECTIONS 10.02.1 THRU 10.02.6 OF THE DESIGN STANDARDS FOR LOCAL RESIDENTIAL STREETS.
- 5. SIDEWALK SHALL BE PER STANDARD DETAIL T-13, T-14, OR T-15.

DATE:

29/2018

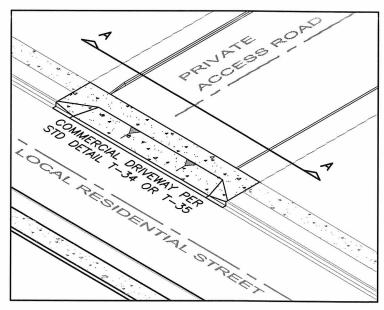
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AUBURN WASHINGTON

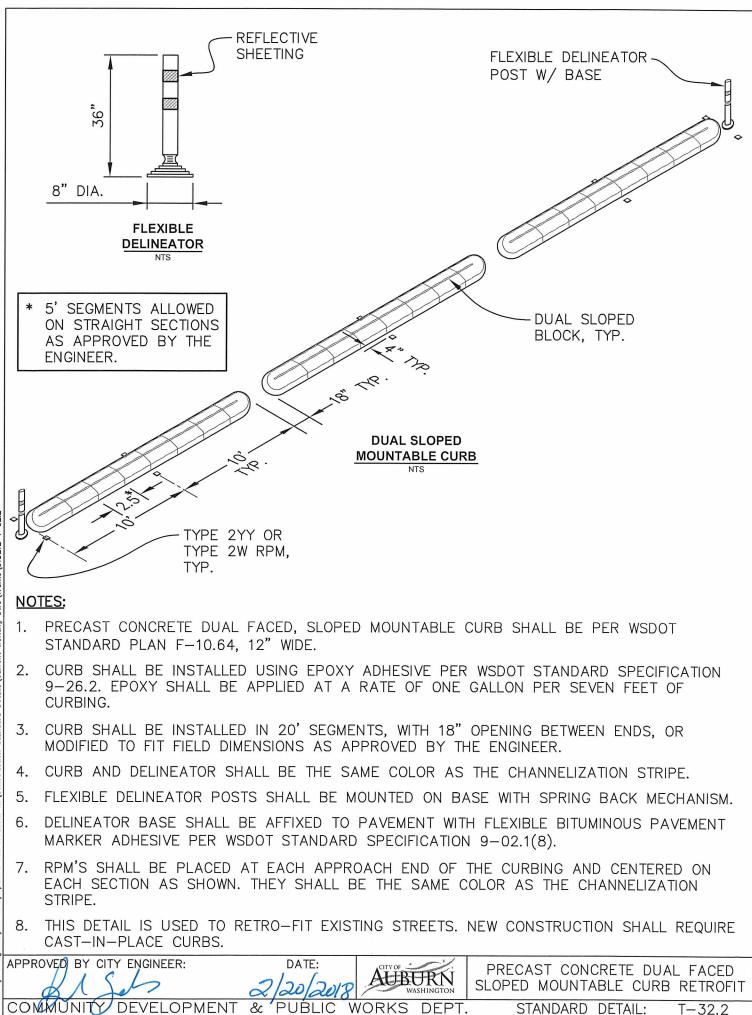
WORKS DEPT.

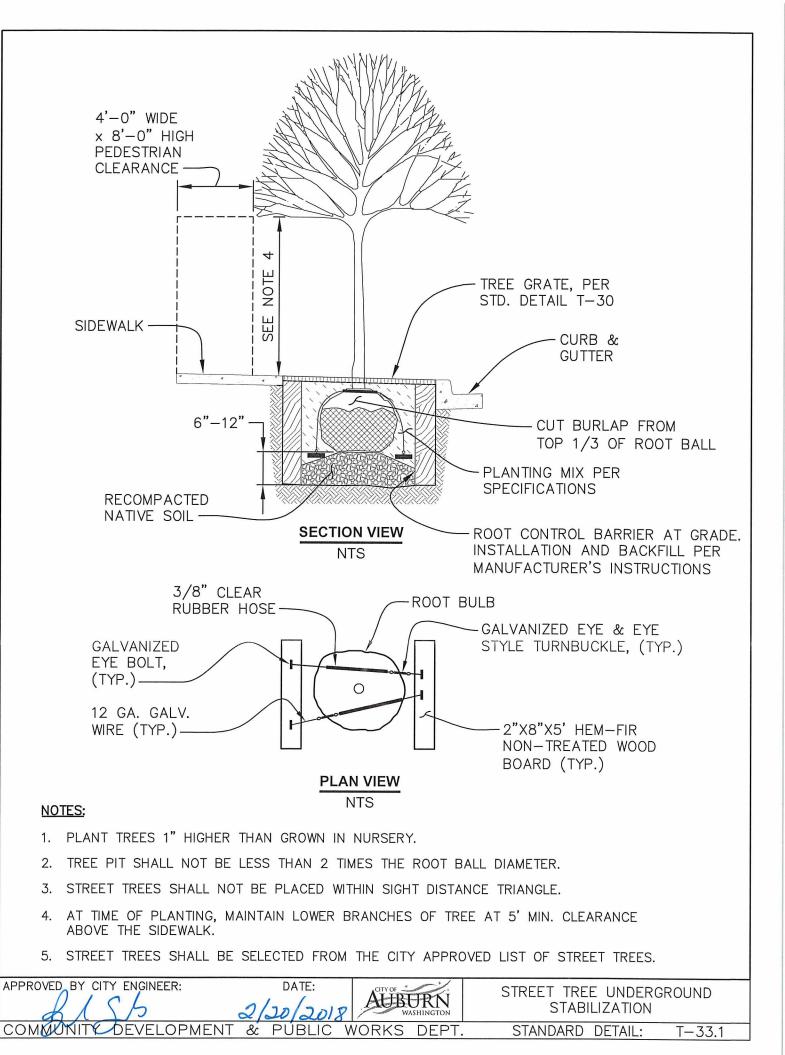
* CURB AND SIDEWALK REQUIRED ON BOTH SIDES OF ACCESS ROAD/DRIVEWAY FOR COMMERCIAL AND INDUSTRIAL USE. CURB AND SIDEWALK MAY BE OMITTED WHERE ACCESS ROAD/DRIVEWAY SERVES 2 OR LESS RESIDENTIAL UNITS.

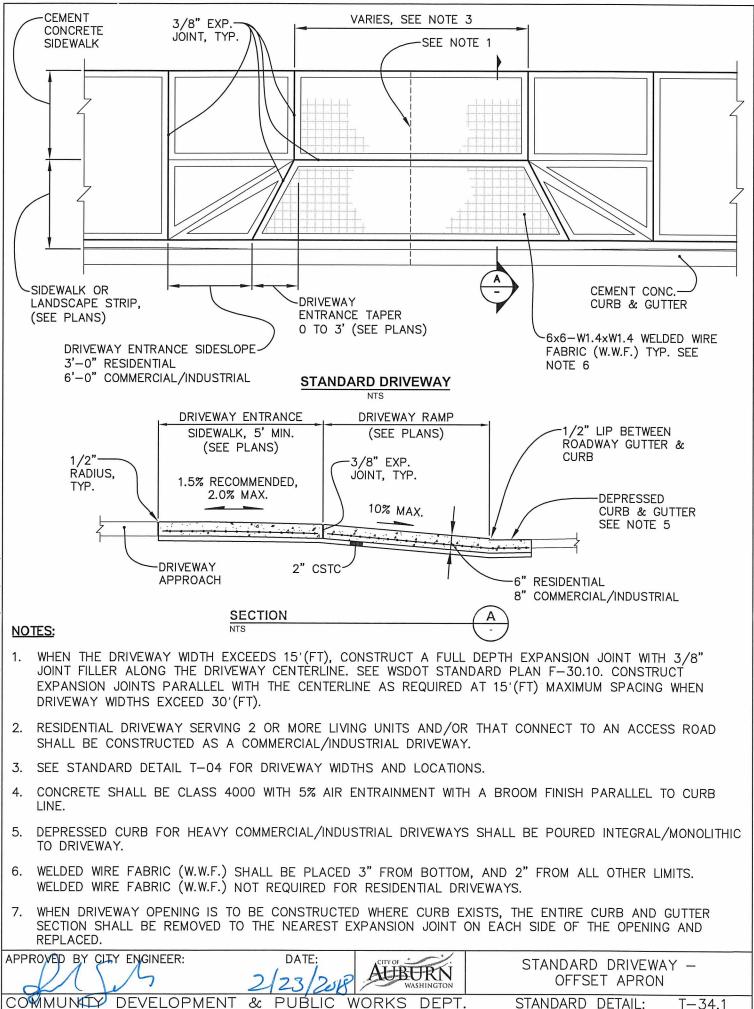


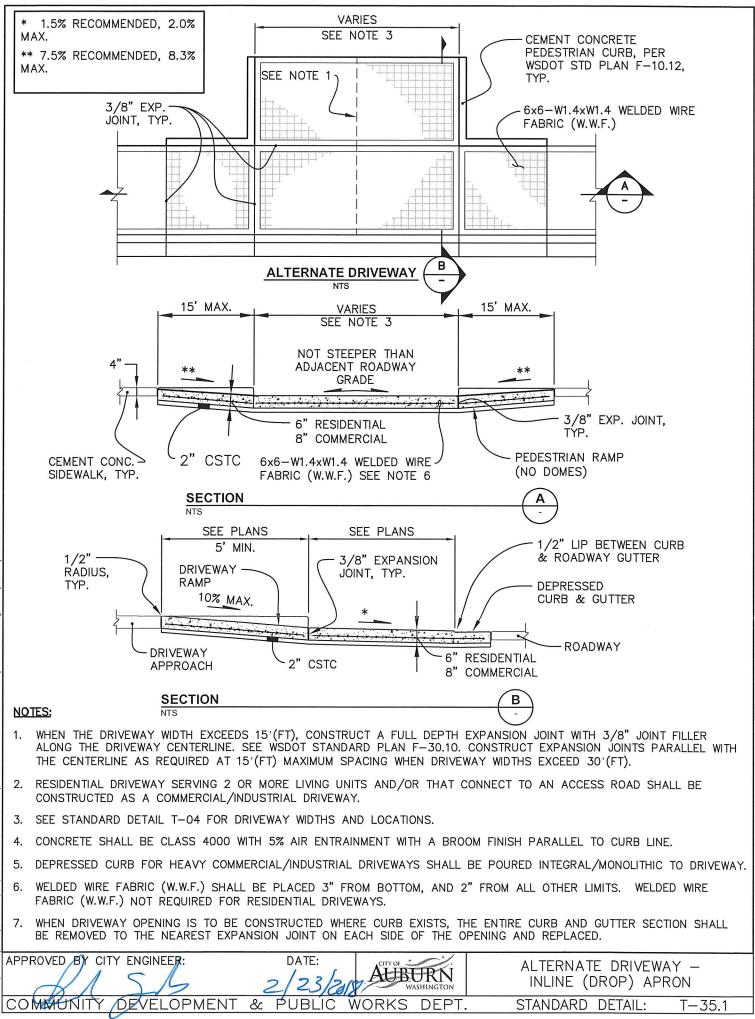
ISOMETRIC NTS











	STREET LIGHTING LAMP SCHEDULE				
STREET CLASSIFICATION	LAMP TYPE	LAMP PART NO. (LEOTEK)	ALTERNATE LAMP PART NO. (AEL AUTOBAHN)*		
PRINCIPAL ARTERIAL	TYPE A	GC2-96G-MV-NW-3R- GY-750 S WL (226 Watts)	ATB2 60BLEDE10 MVOLT R3 HK NL P7 SH		
MINOR ARTERIAL	TYPE B	GCM2-40H-MV-NW-2R -GY-950 S WL (121 Watts)	ATBO 30BLEDE13 MVOLT R2 NL P7 SH		
MINOR ARTERIAL W/ CENTER TURN LANE OR MEDIAN	TYPE C	GCL1—60G—MV—NW—2RG Y—700 S WL (137 Watts)	ATB2 40BLEDE10 MVOLT R2 HK NL P7 SH		
NON-RESIDENTIAL COLLECTOR	TYPE B	GCM2-40H-MV-NW-2R -GY-950 S WL (121 Watts)	ATBO 30BLEDE13 MVOLT R2 NL P7 SH		
RESIDENTIAL COLLECTOR	TYPE D	GCJ2-20H-MV-NW-2R -GY-1A S WL (68 Watts)	ATBO 20BLEDE10 MVOLT R2 NL P7 SH		
RESIDENTIAL COLLECTOR WITH CENTER TURN LANE OR MEDIAN	TYPE E	GCM2-30H-MV-NW-2R -GY-700 S WL (69 Watts)	ATBO 20BLEDE10 MVOLT R2 NL P7 SH		
LOCAL NON-RESIDENTIAL	TYPE D	GCJ2-20H-MV-NW-2R -GY-1A S WL (68 Watts)	ATB0 20BLEDE10 MVOLT R2 NL P7 SH		
RUSTIC ROADS		N/A	N/A		
LOCAL RESIDENTIAL AND LOCAL RESIDENTIAL ALTERNATIVE **	TYPE F	GCJ1-20H-MV-NW-2R- GY-580 S WL (39 Watts)	ATB0 20BLEDE53 MVOLT R2 NL P7 SH		

AUBURN

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Dobyns on 5/16/2018 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDETL-T-37.2 Craig APPROVED BY CITY ENGINEER: by:

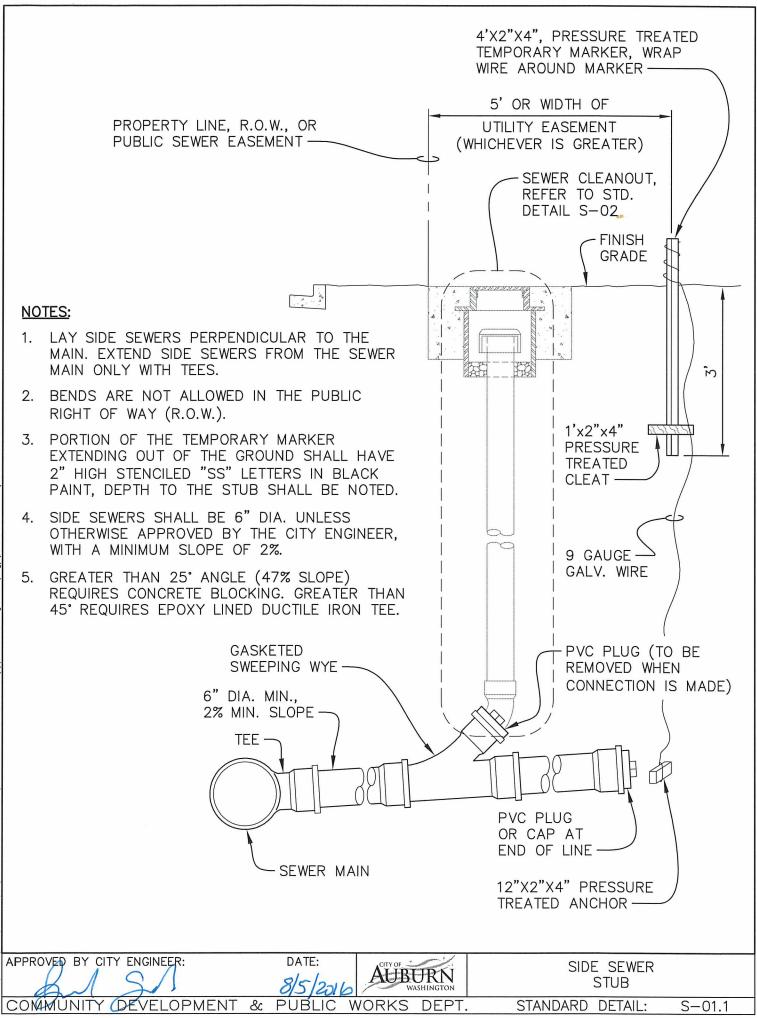
- * UNLESS SPECIFIED OTHERWISE SEE TABLE 10-8 IN DESIGN STANDARDS FOR LIGHTING DESIGN CRITERIA.
- ** SEE STD DETAIL T-29 FOR LOCAL RESIDENTIAL ORNAMENTAL OPTION.

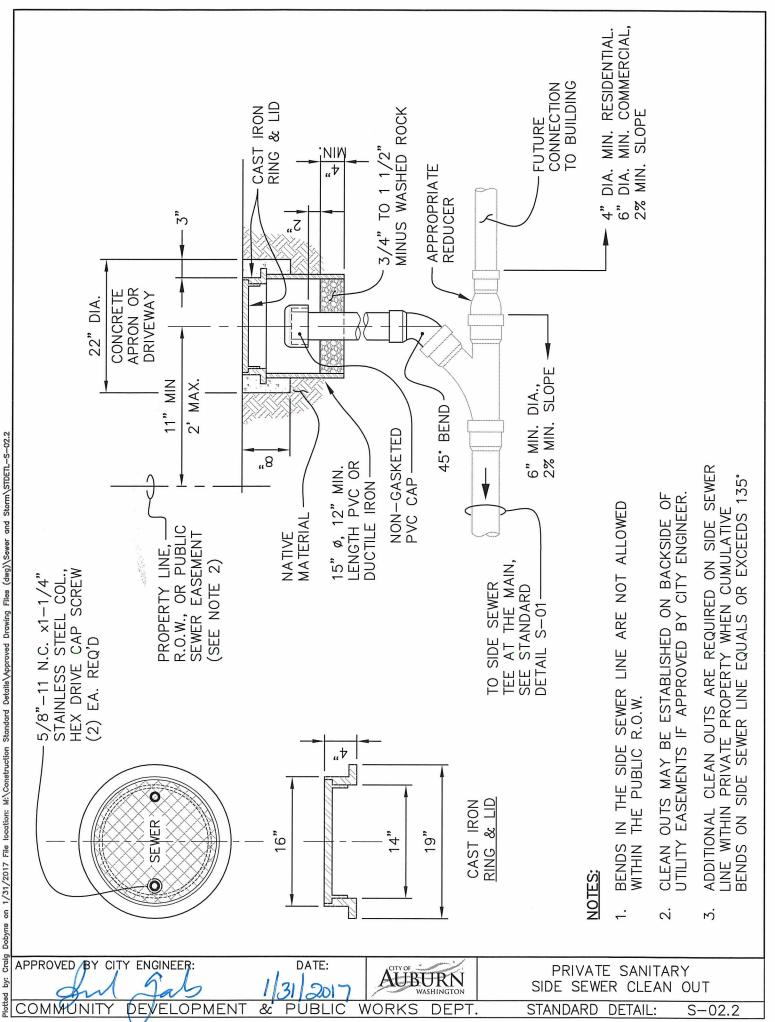
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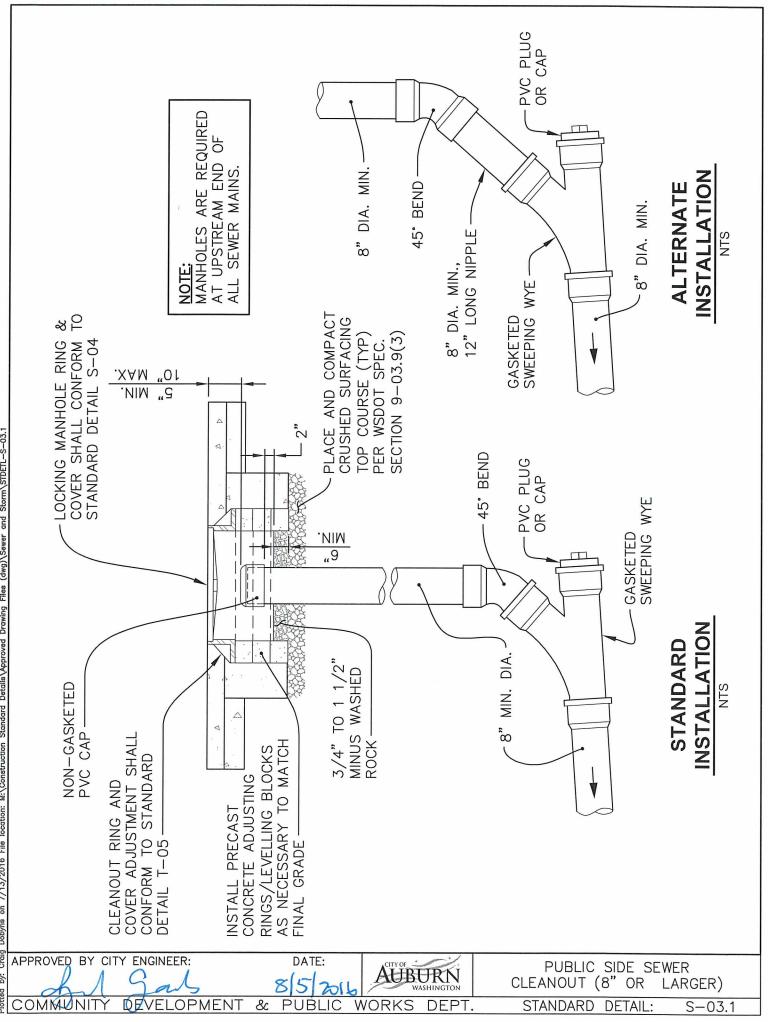
COMMUNITY DEVELOPMENT &

STREET LIGHTING LAMP SCHEDULE STANDARD DETAIL:

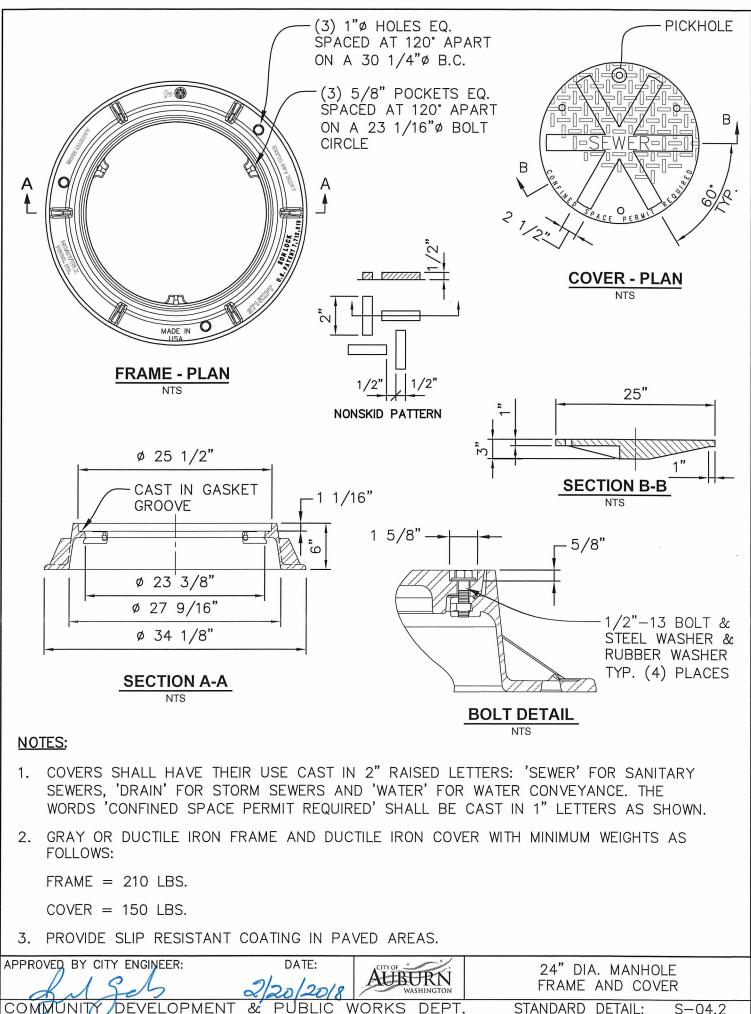
T-37.2





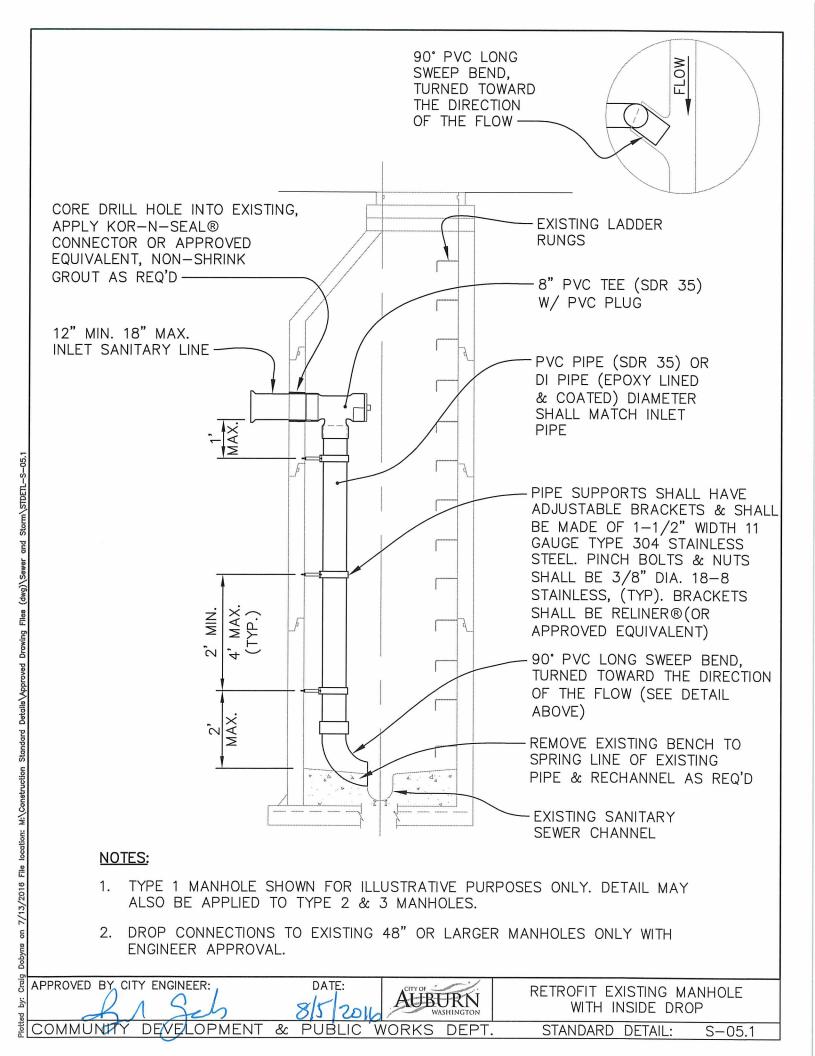


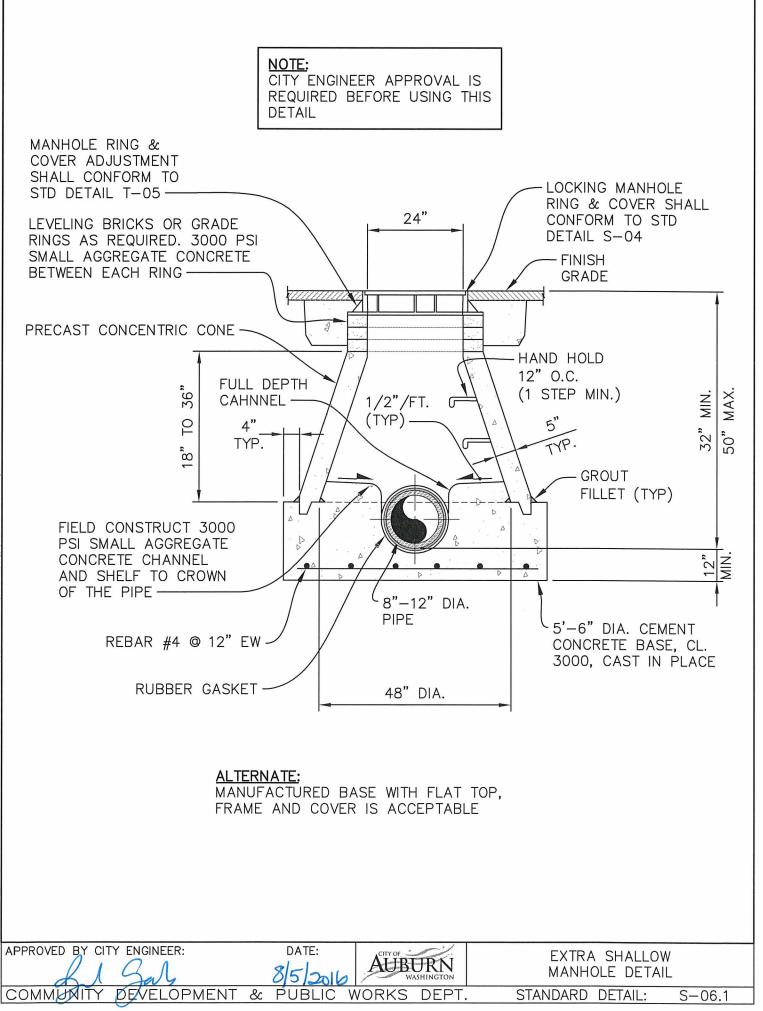
Picited by: Craig Dobyms on 7/13/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\Sewer and Storm\STDETL-S-03.1

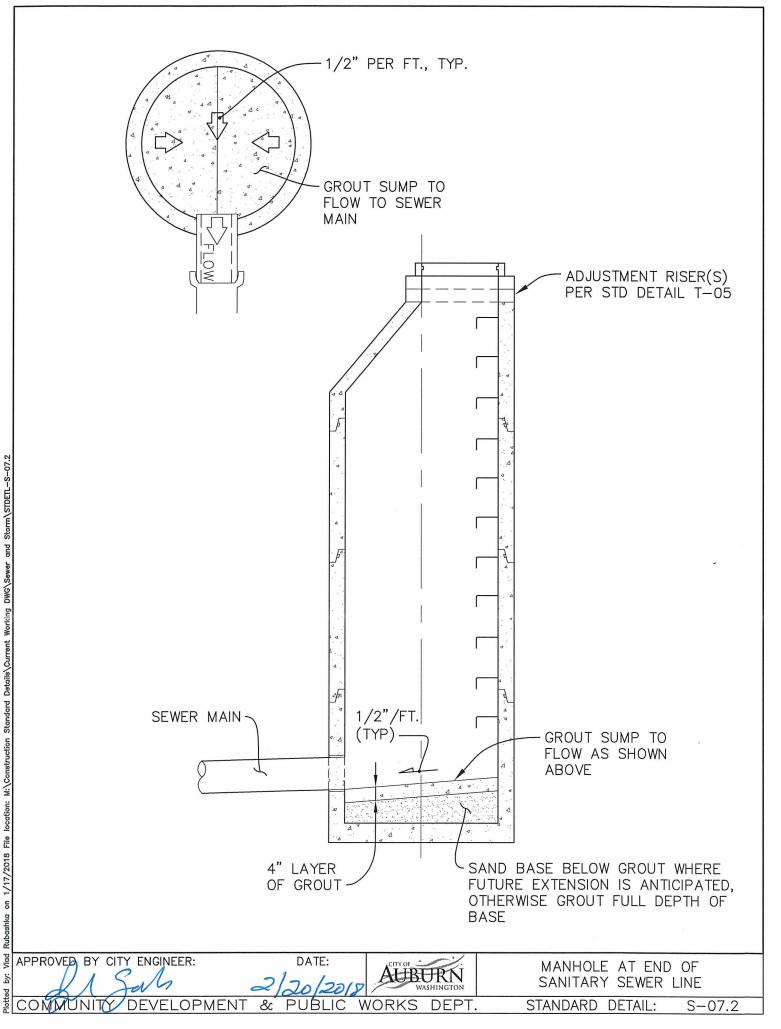


STANDARD DETAIL:

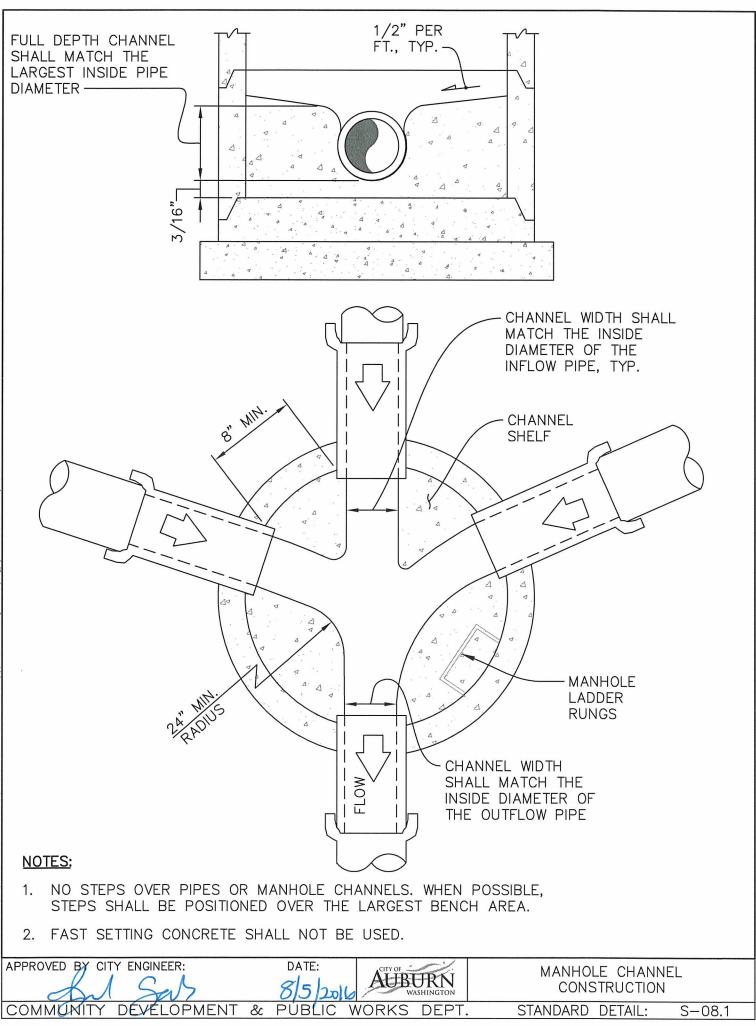
S - 04.2

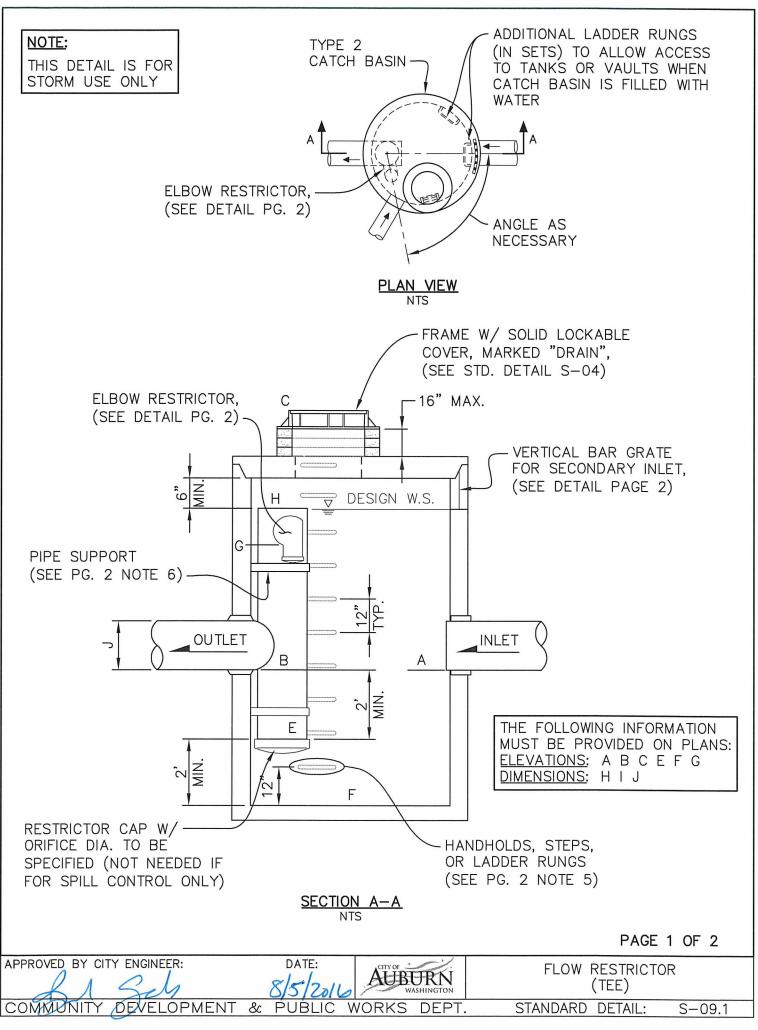


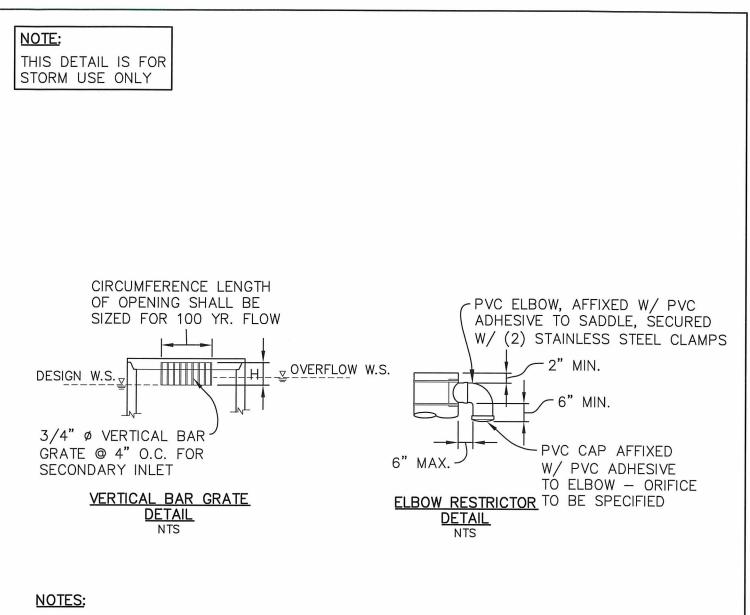




Rubashka on 1/17/2018 File location: M:\Construction Standard Details\Current Working DWC\Sewer and Storm\STDETL-S-07.2 by:



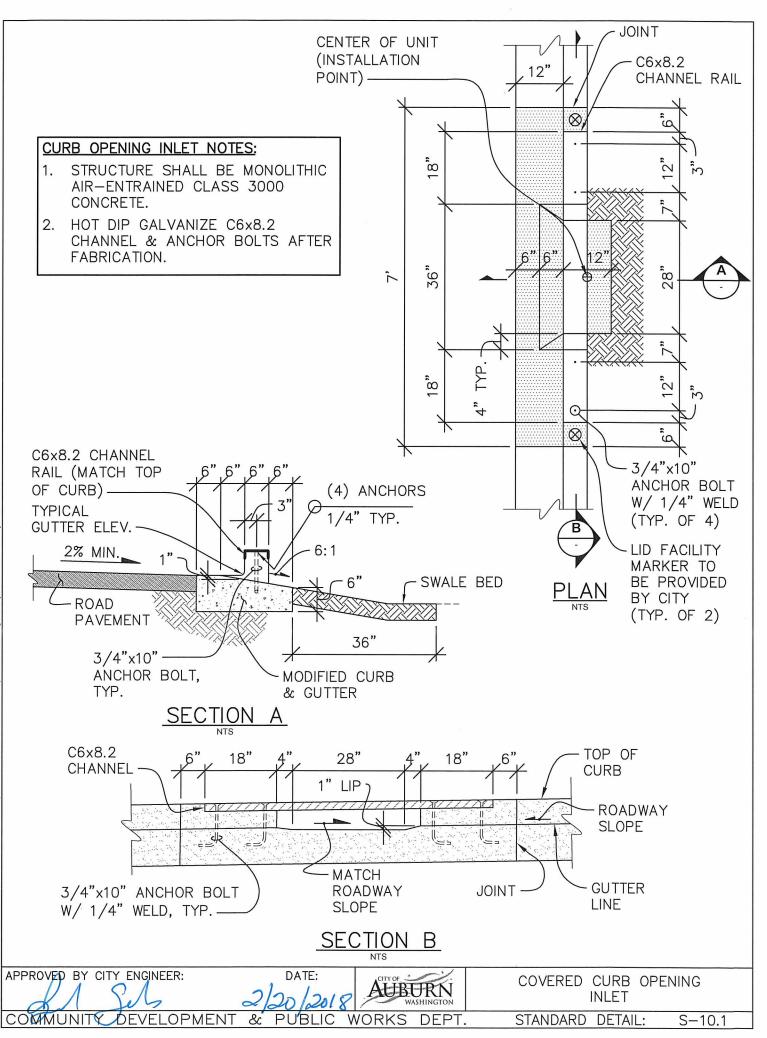


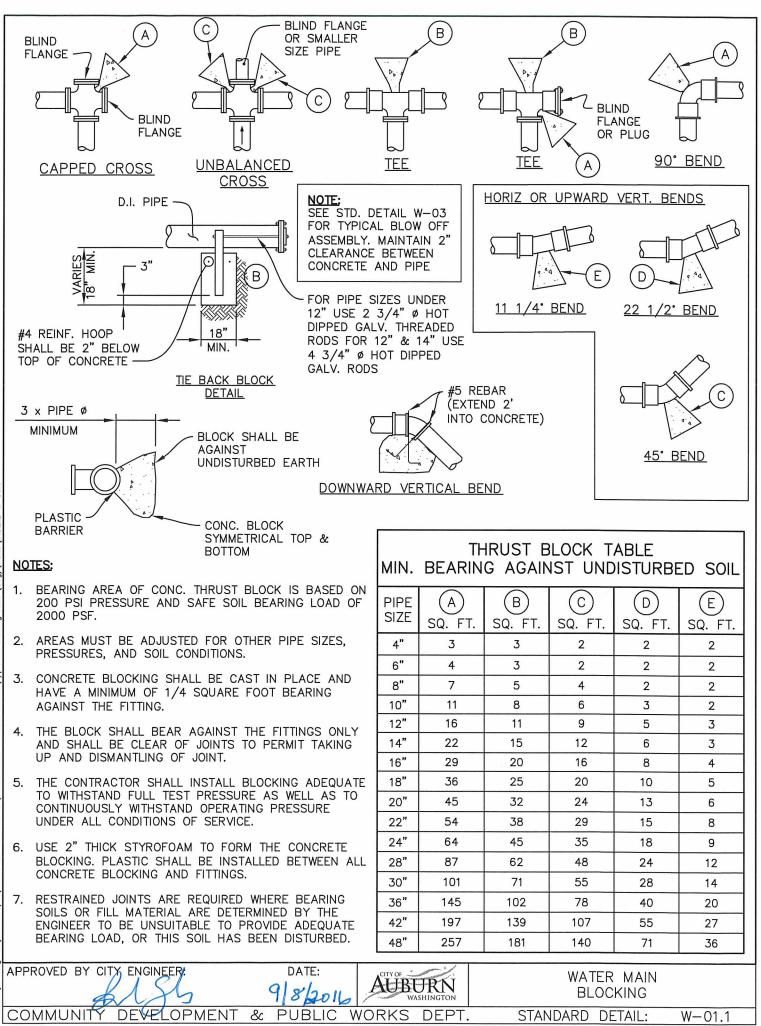


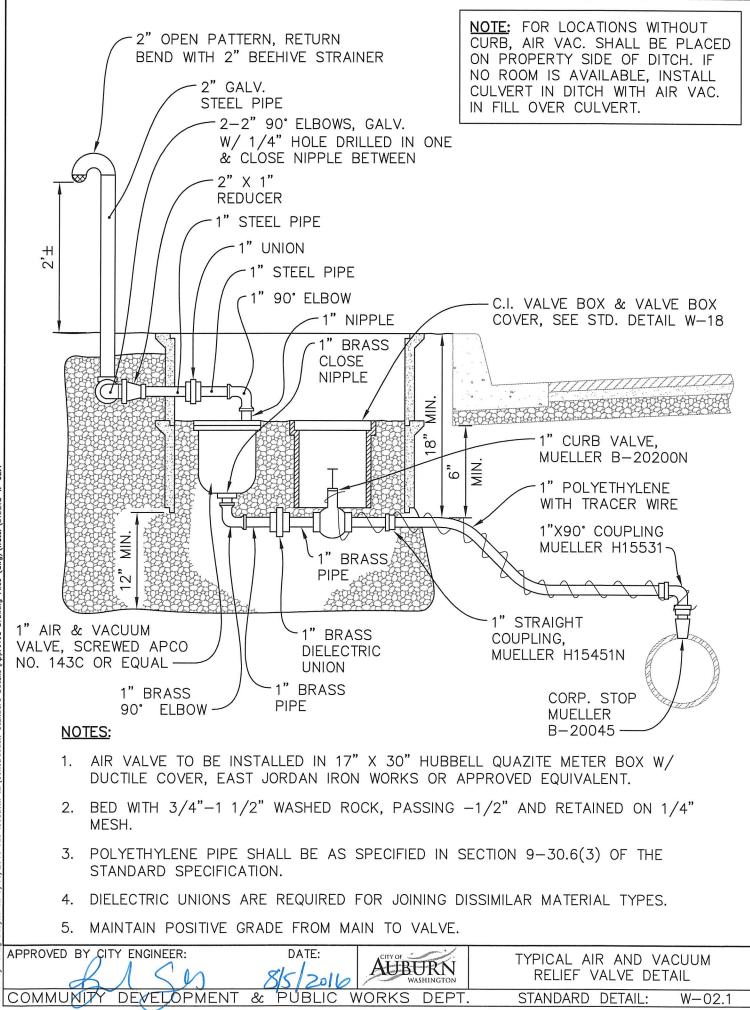
- 1. USE A MINIMUM OF 54" DIA. TYPE 2 CATCH BASIN.
- 2. OUTLET CAPACITY SHALL BE 100-YR. DEVELOPED PEAK FLOW.
- 3. RESTRICTOR TO BE MADE WITH NON-GASKETED PVC, SDR-35.
- 4. FLOW RESTRICTOR TO BE CONNECTED TO OUTLET PIPE WITH GASKETED CONNECTION OR ROMAC COUPLER.
- 5. BASIN LID FRAME AND LADDER RUNGS OR STEPS ARE OFFSET SO THAT:
 - A. RESTRICTOR IS VISIBLE FROM TOP.
 - B. ACCESS SPACE IS CLEAR OF RISER AND RESTRICTOR.
 - C. COVER FRAME IS CLEAR OF CURB.
- 6. PROVIDE AT LEAST TWO 3"x0.090 GAUGE STAINLESS STEEL SUPPORT BRACKET ANCHORED 2" INTO CONCRETE WALL WITH MAX. 3' VERTICAL SPACING.
- 7. LOCATE ELBOW RESTRICTOR AS NECESSARY TO PROVIDE MINIMUM CLEARANCE AS SHOWN. PIPE SIZES AND SLOPE PER PLAN. SHOW ALLOWABLE DISCHARGE "Q"

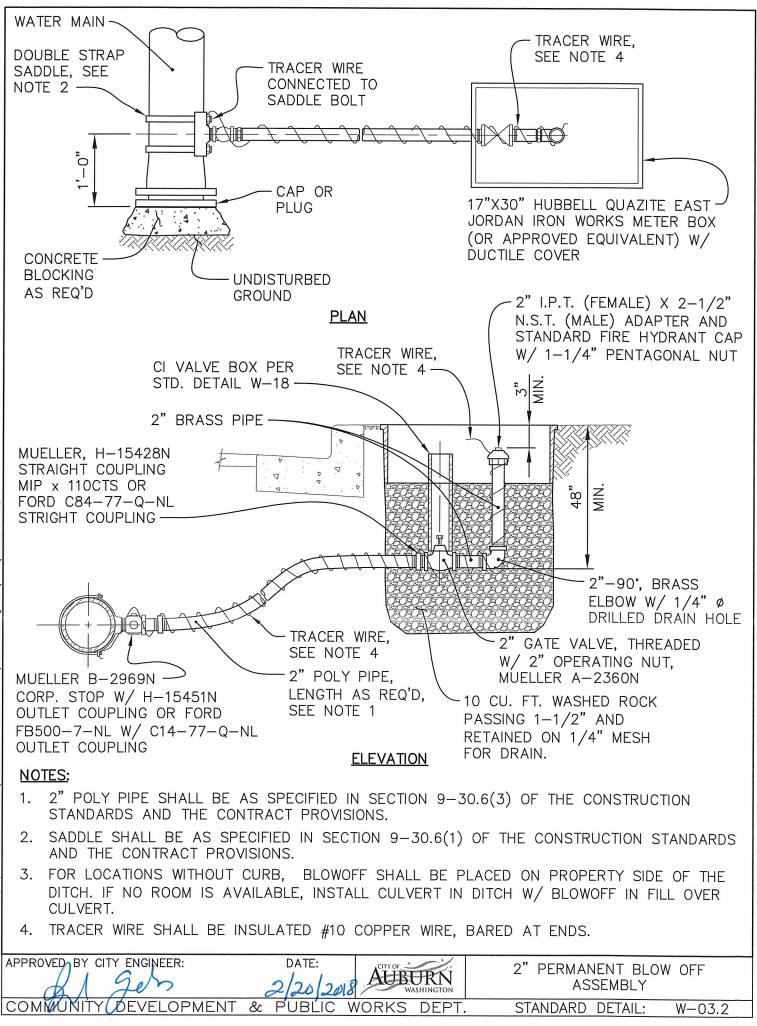
PAGE 2 OF 2

APPROVED BY CITY ENGINEER:	DATE: 8/5/2016	AUBURN WASHINGTON	FLOW RESTRICTO (TEE)	R
COMMUNITY DEVELOPMENT	& PUBLIC W	ORKS DEPT.	STANDARD DETAIL:	S-09a.1



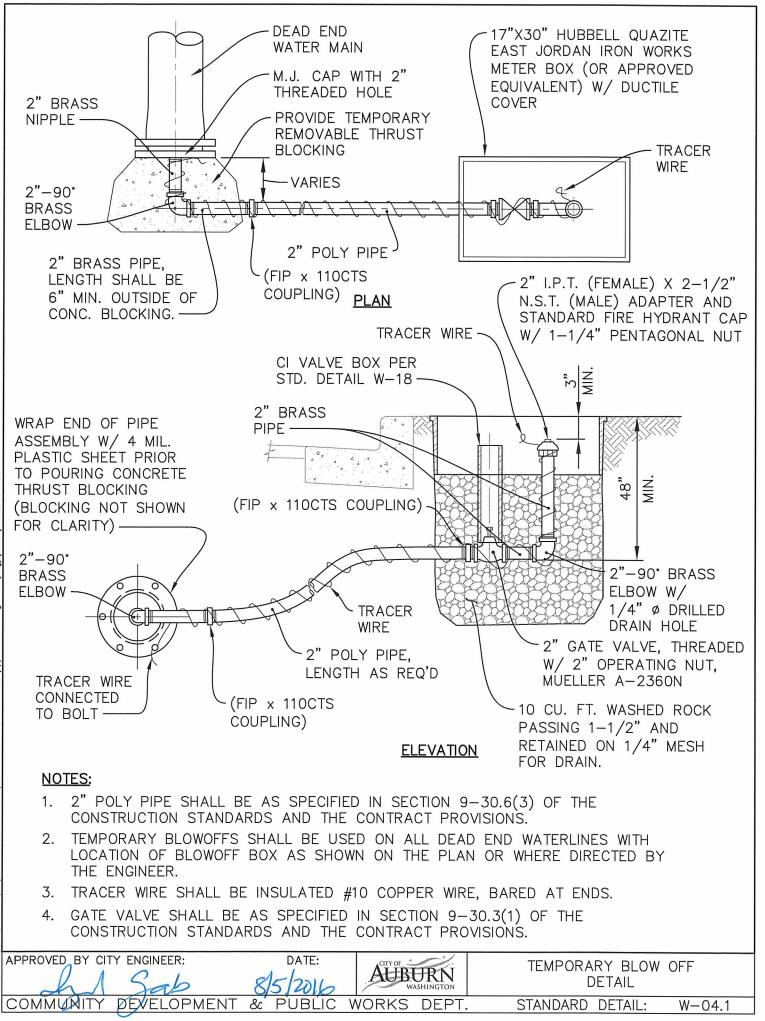


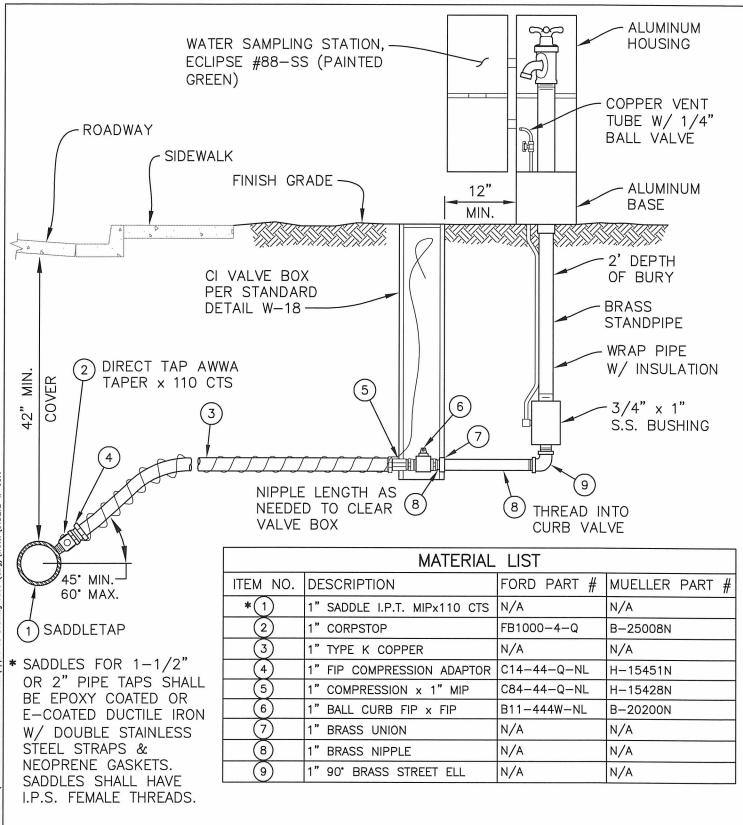




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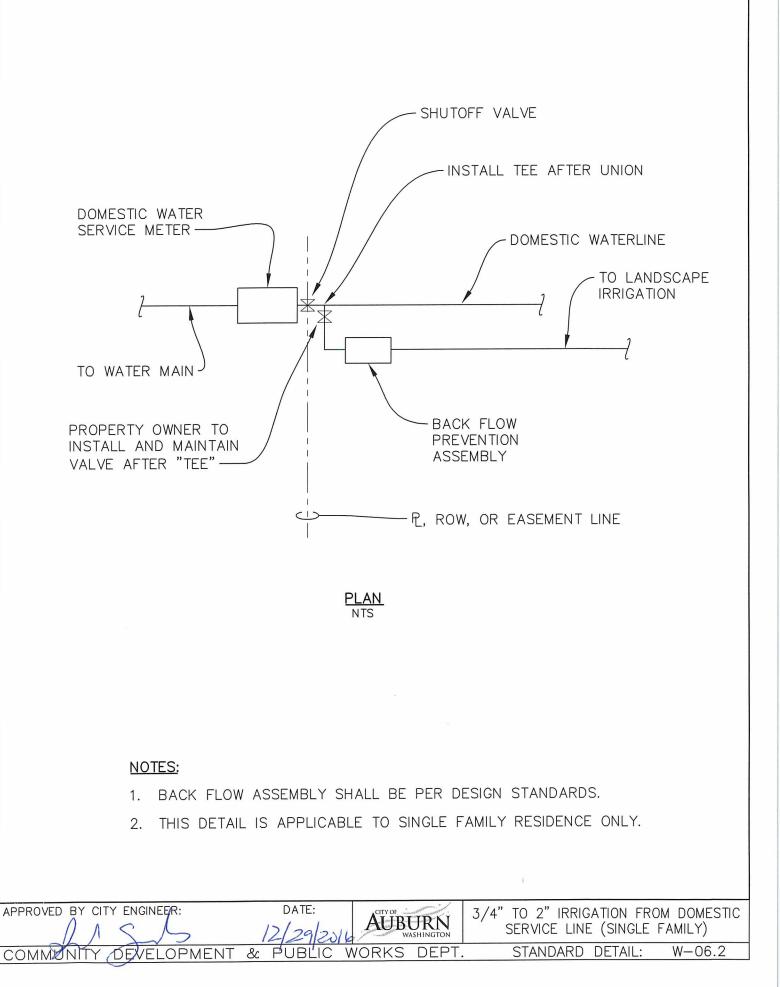
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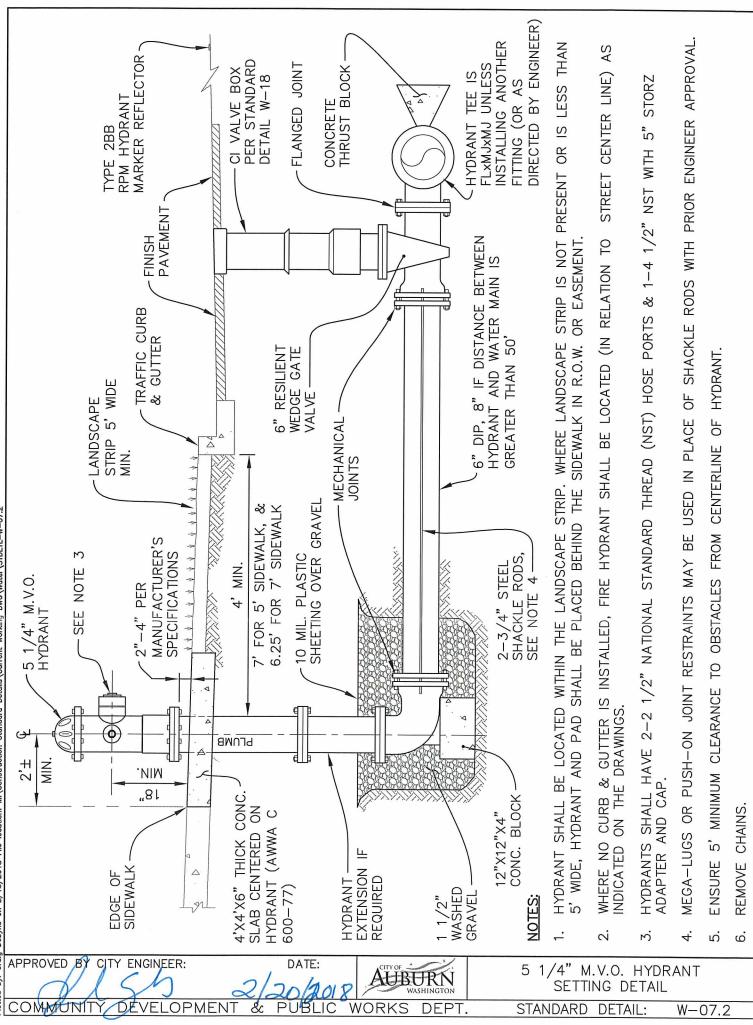




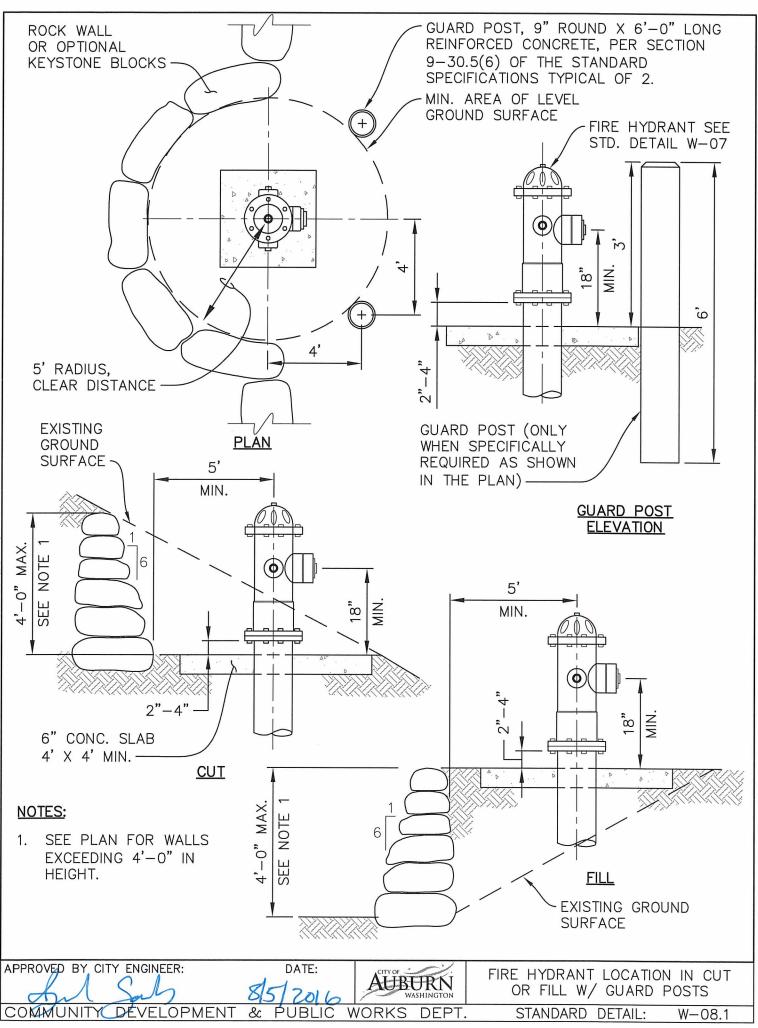
- 1. ALL PIPE AND FITTINGS TO BE ASSEMBLED W/ TEFLON AND PIPE DOPE UNLESS OTHERWISE NOTED.
- 2. SERVICE LINES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN.
- 3. THE SERVICE LINE SHALL BE INSTALLED TO ALLOW FOR THE FAR SIDE OF THE SAMPLE STATION TO BE INSTALLED IN THE ROW OR EASMENT LINE, UNLESS OTHERWISE DIRECTED BY THE CITY.

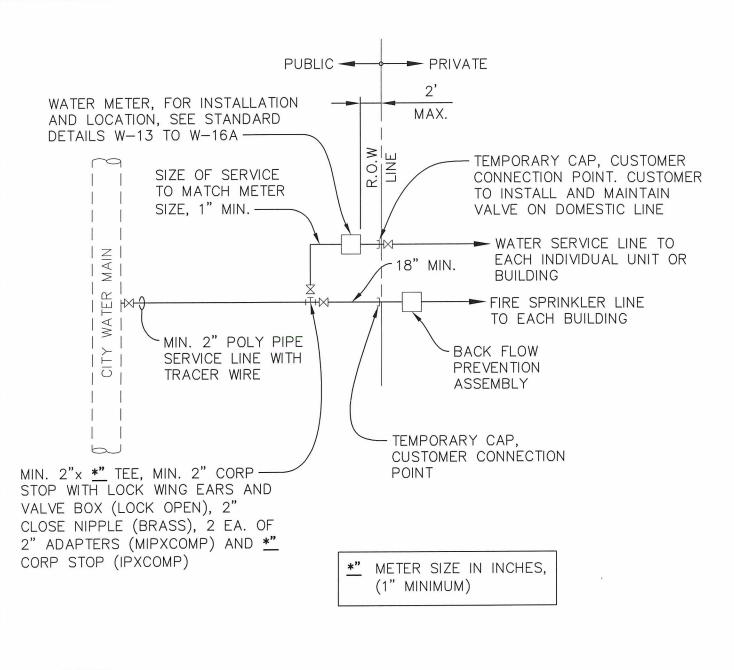
HDUN : Ka Da	APPROVED BY CITY ENGINEER:	DATE:	AUBURN WASHINGTON	WATER SAMPLING STATIONING DETAIL	
THORY	COMMUNITY DEVELOPMENT	& PUBLIC V	VORKS DEPT.	. STANDARD DETAIL: W	-05.





Notited by: Craig Dobyns on 2/15/2018 File location: M:\Construction Standard Details\Current Working DWG\Water\STDETL-W-07.2

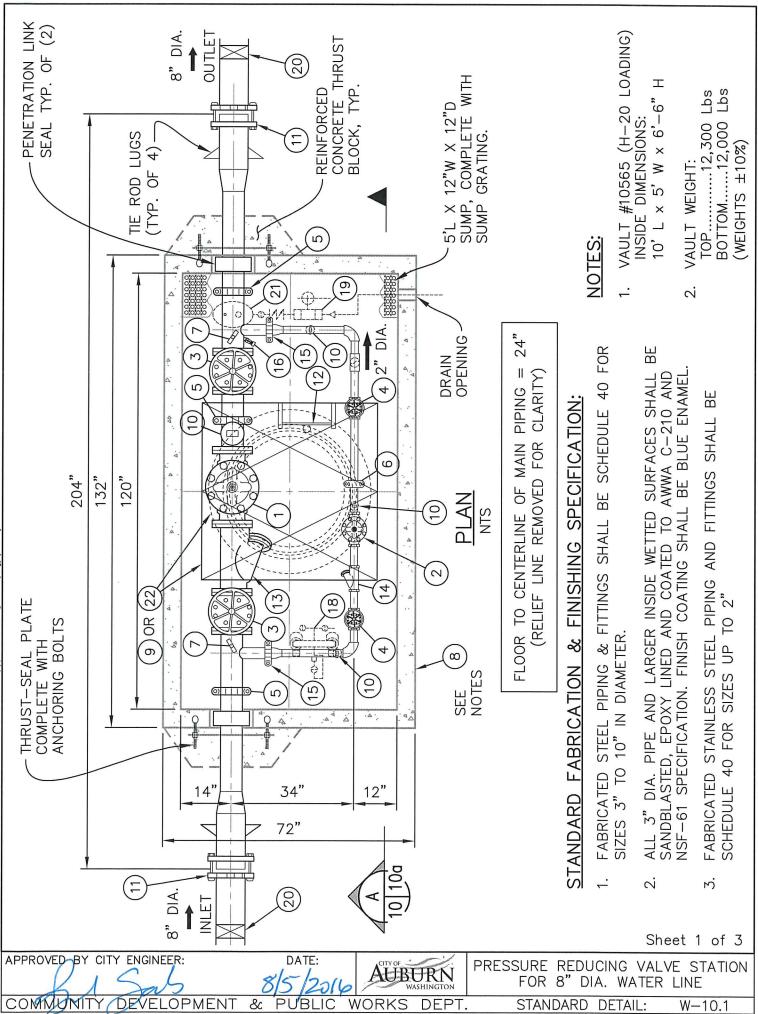




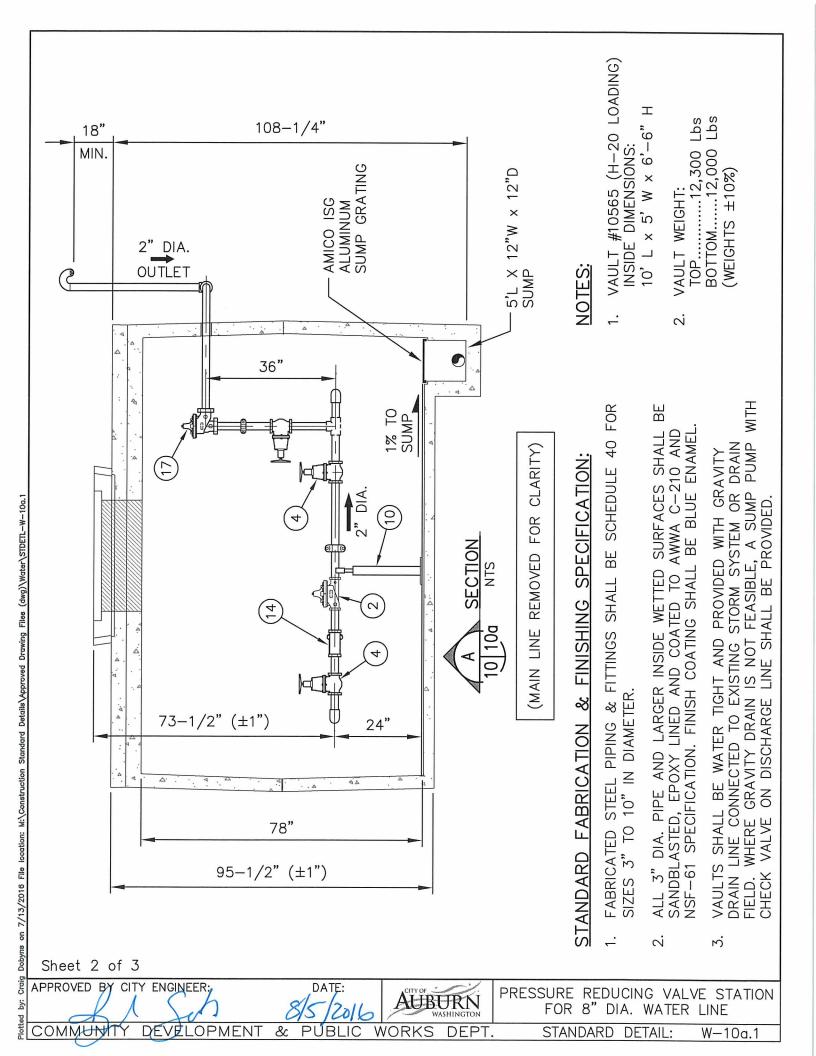
COMMUNIT

- THIS DETAIL IS APPLICABLE TO SINGLE FAMILY RESIDENCES ONLY. 1.
- 2. CONNECTION TO CITY WATER MAIN PER CITY OF AUBURN REQUIREMENTS.
- 3. BACK FLOW PREVENTION ASSEMBLY SHALL BE PER DESIGN STANDARDS.
- 4. PLANS FOR SEPARATE FIRE SPRINKLER LINE MUST BE SUBMITTED AND APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION.

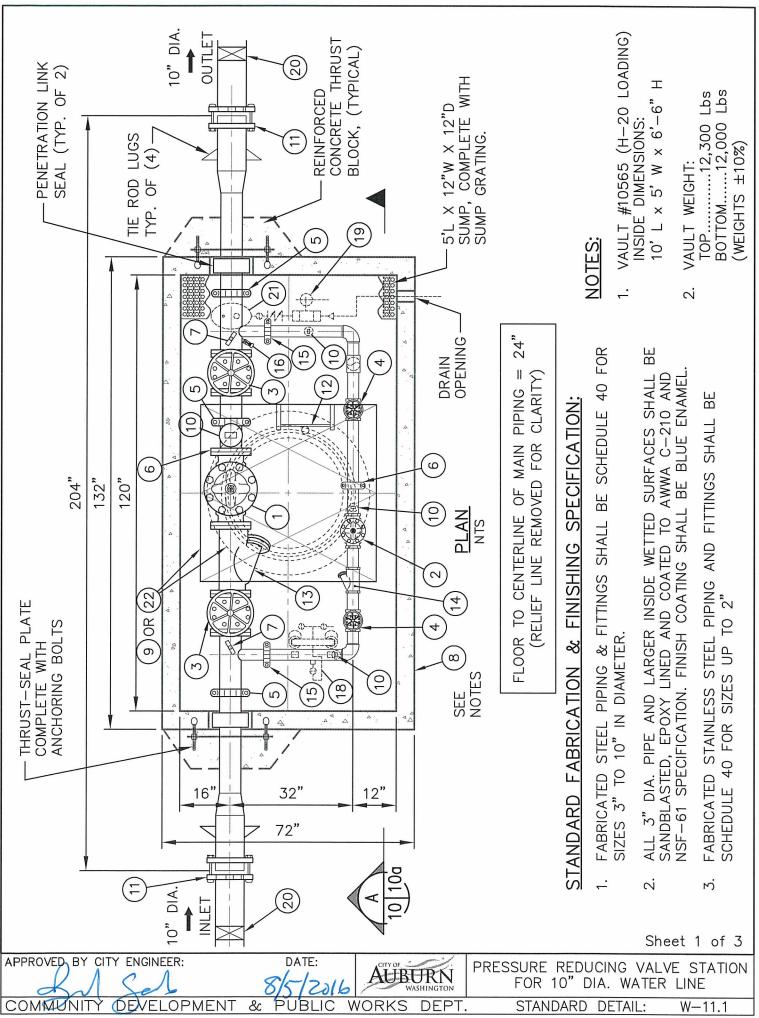




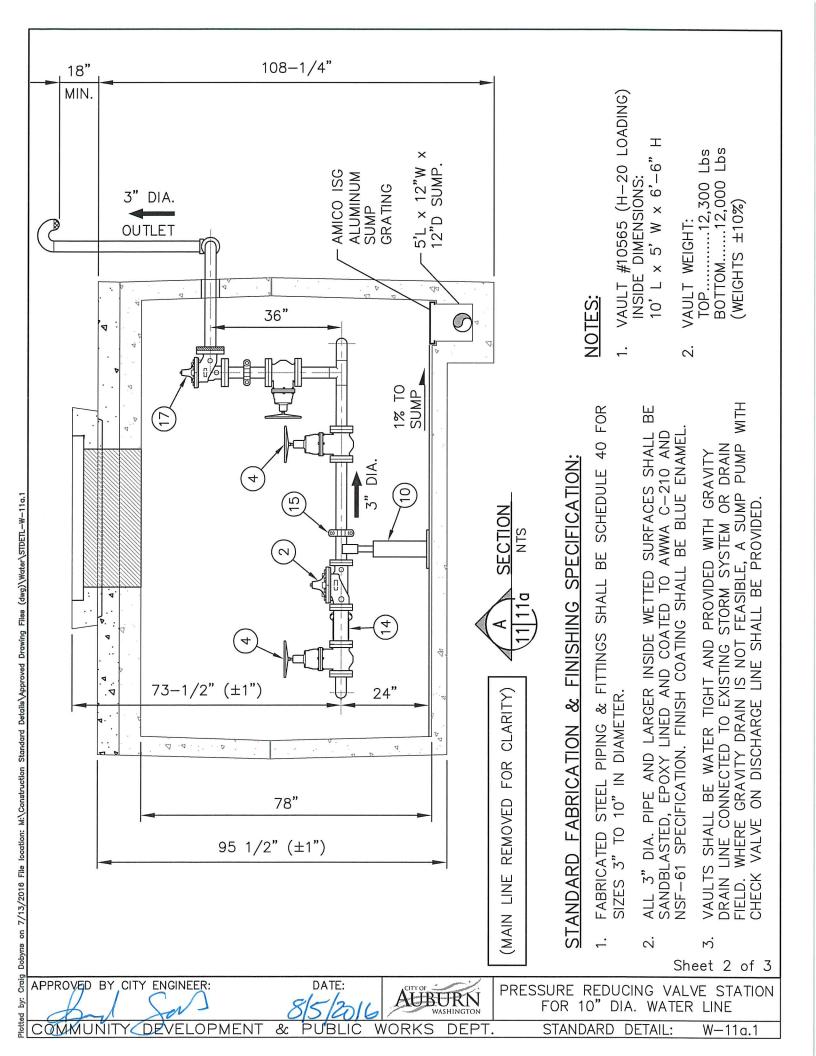
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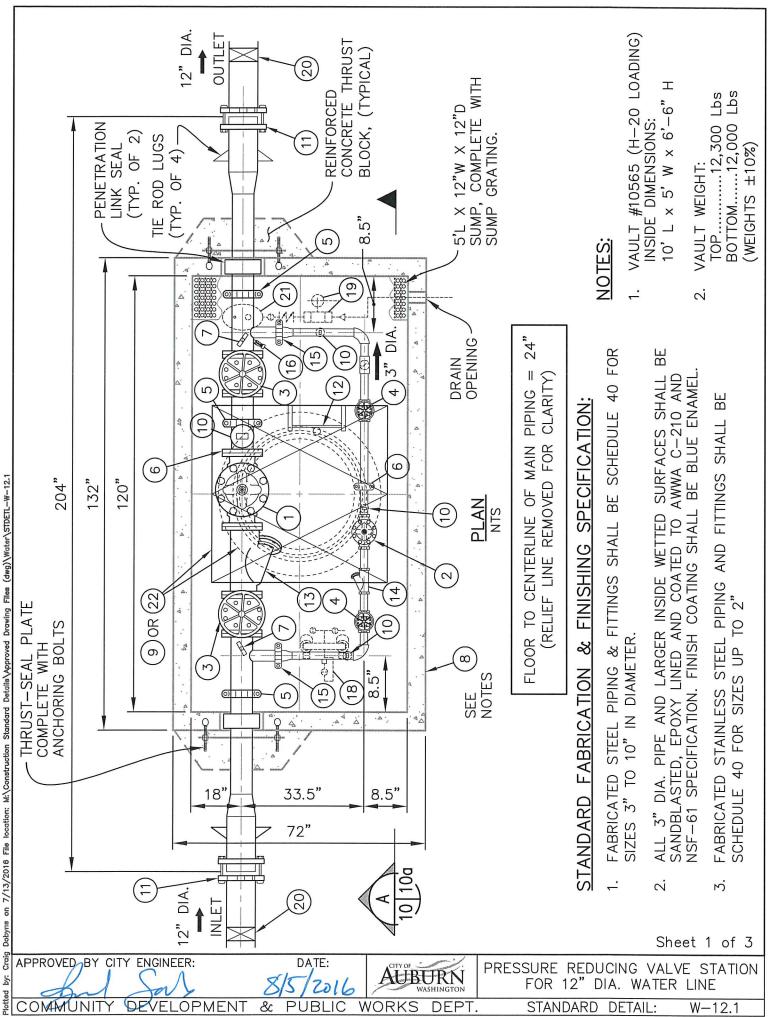
	BILL OF MATERIALS				
ITEM	QTY	DESCRIPTION			
1	1	6" CLA-VAL 90G-01YBS PRESSURE REDUCING VALVE COMPLETE WITH X101 POS. IND., DIBT-#150 FLGD			
2	1	2" CLA-VAL 90G-01YBS PRESSURE REDUCING VALVE COMPLETE WITH X101 POS. IND., DIBT-THREADED			
3	2	6" RW NRS GATE VALVE COMPLETE WITH HANDWHEEL-#150 FLGD			
4	2	2" RW NRS GATE VALVE COMPLETE WITH HANDWHEEL-THREADED			
5	3	6" VICTAULIC #07 COUPLING			
6	1	2" VICTAULIC #07 COUPLING			
7	2	4" WIKA (0–200 PSI) PRESSURE GAUGE COMPLETE WITH GAUGE COCK			
8	1	#10565 PRECAST CONCRETE VAULT - C555 BLACK EXTERIOR DAMP PROOFING, C555 LATEX INTERIOR PAINT			
9	1	BILCO 48" X 48" ALUMINUM DOUBLE DOOR HATCH OR APPROVED EQUIVALENT			
10	4	ADJUSTABLE PIPE SUPPORTS			
(11)	2	8" SMITH BLAIR OR EBAA TRANSITION COUPLINGS			
(12)	1	ALUMINUM LADDER WITH TELESCOPING SAFETY POST (LADDER UP)			
(13)	1	6" MUELLER 758 CAST IRON BODY "Y" STRAINER COMPLETE WITH BLOWDOWN VALVE – #125 FLGD			
(14)	1	2" MUELLER 11M CAST IRON BODY "Y" STRAINER COMPLETE WITH BLOWDOWN VALVE-THREADED			
(15)	2	3" VICTAULIC #07 COUPLING			
(16)	1	3/4" HOSE BIB ASSEMBLY			
17	1	PRESSURE RELIEF VALVE ASSEMBLY INCLUDES: 2" CLA-VAL 50A-01B PRESSURE RELIEF VALVE ANGLE STYLE - #150 FLGD 2" VICTAULIC #07 COUPLING 2" VICTAULIC #741 COUPLING ADAPTER 2" MUELLER A2360 RW NRS GATE VALVE			
(18)	1	DUPLEX PILOT STRAINER (PIPE MOUNTED)			
(19)	1	AUTOMATIC SUMP DRAIN EJECTOR			
20	2	8" RW NRS GATE VALVE W/ VALVE BOX-RESTRAINED JOINT			
21	1	1" APCO 143C.1 COMBINATION AIR VALVE ISOLATION VALVE, EXTENSION & BRASS UNION			
22	1	OPTIONAL: 30" MANHOLE COVER & FRAME (H20 LOADING) (APPLIES ONLY IF ABSOLUTELY NECESSARY; IT LIMITS EQUIPMENT REMOVAL FROM VAULT)			
DIRECT	OPTIONAL EQUIPMENT SHALL BE PROVIDED AS DIRECTED, OR AS APPROVED BY THE CITY OF AUBURN.Sheet 3 of 3				
сомм	JNIF	CITY ENGINEER: DATE: CITY OF BURNNE PRESSURE REDUCING VALVE STATION FOR 8" DIA. WATER LINE T DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-10b.2			

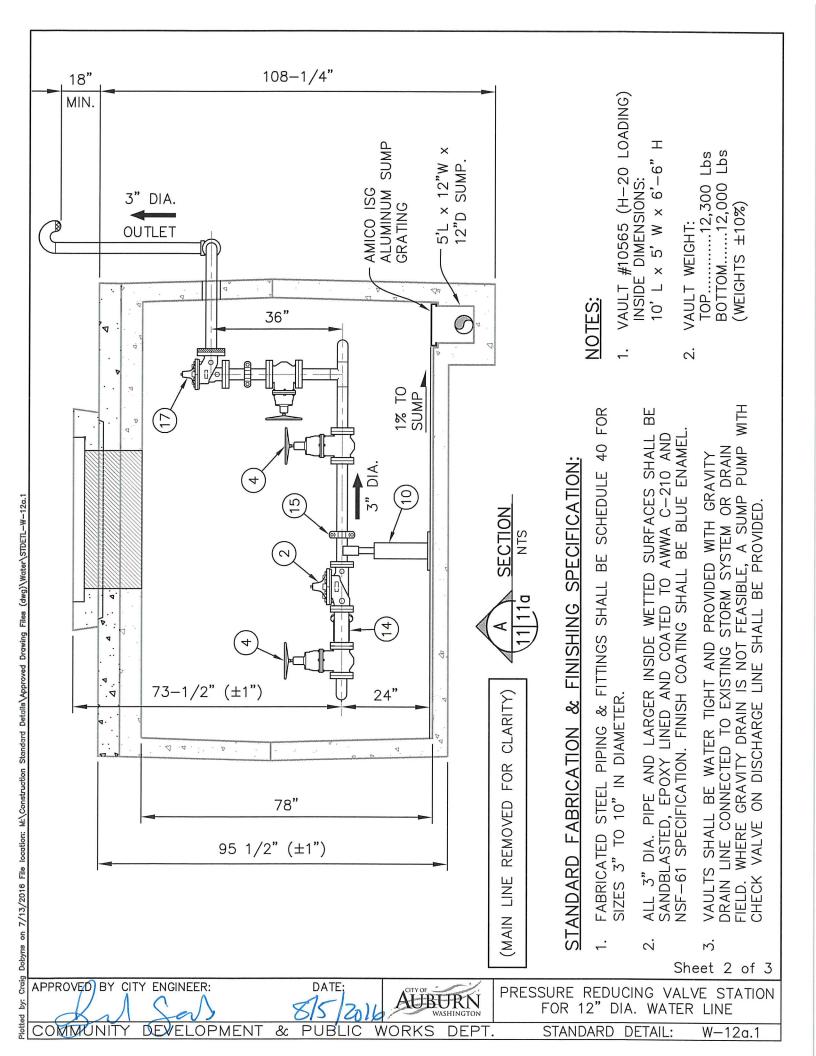


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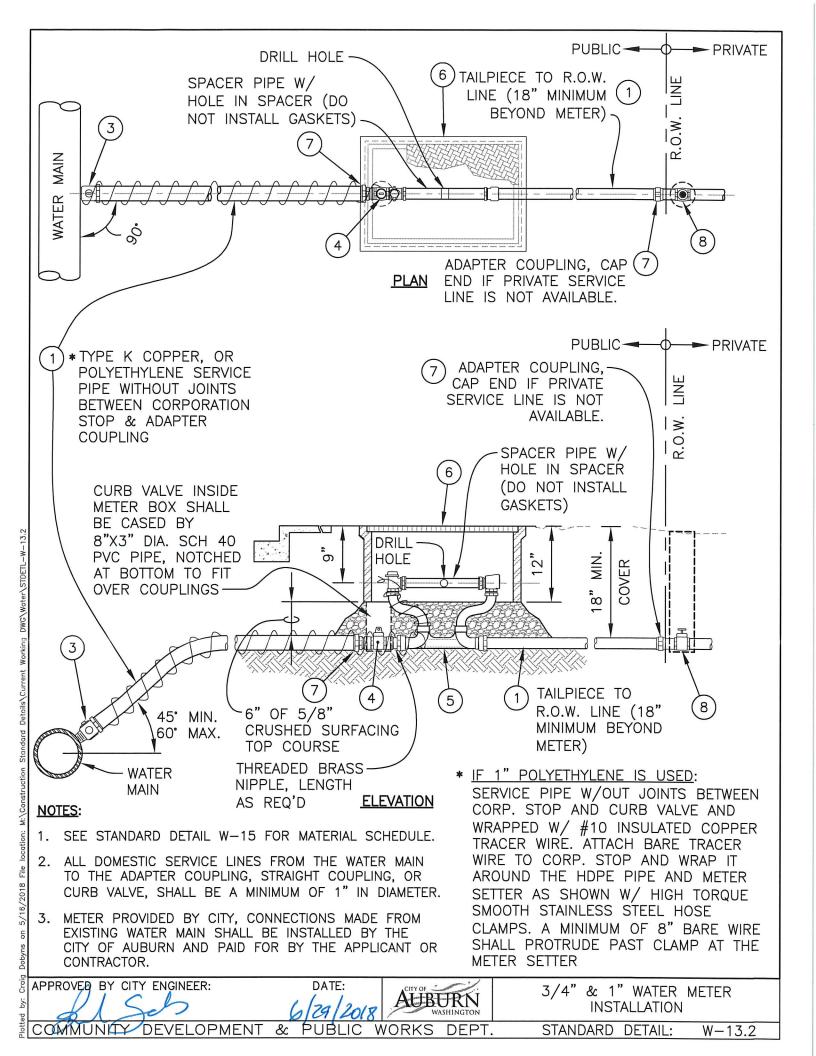


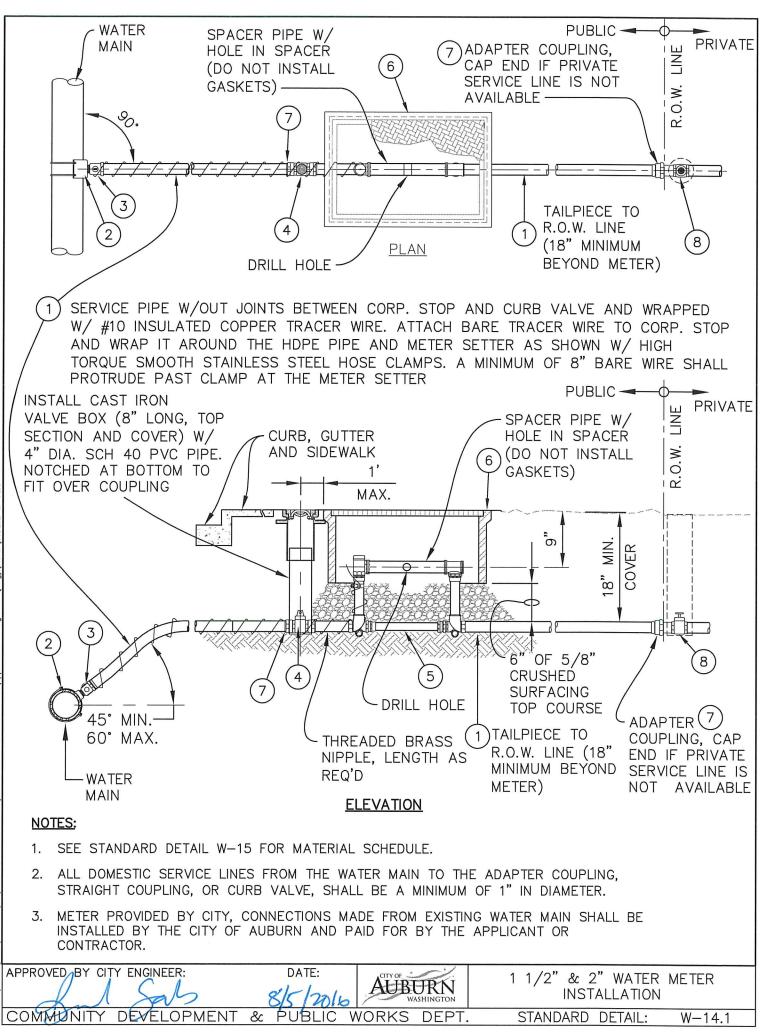
		BILL OF MATERIALS											
ITEM	QTY	DESCRIPTION											
1	1	8" CLA-VAL 90G-01YBS PRESSURE REDUCING VALVE COMPLETE WITH X101 POS. IND., DIBT-#150 FLGD											
2	1	3" CLA-VAL 90G-01YBS PRESSURE REDUCING VALVE COMPLETE WITH X101 POS. IND., DIBT-THREADED											
3	2	8" RW NRS GATE VALVE COMPLETE WITH HANDWHEEL-#150 FLGD											
4	2	3" RW NRS GATE VALVE COMPLETE WITH HANDWHEEL-THREADED											
5	3	8" VICTAULIC #07 COUPLING											
6	1	3" VICTAULIC #07 COUPLING											
7	2	4" WIKA (0-200 PSI) PRESSURE GAUGE COMPLETE WITH GAUGE COCK											
8	1	#10565 PRECAST CONCRETE VAULT – C555 BLACK EXTERIOR DAMP PROOFING, C555 WHITE LATEX INTERIOR PAINT											
9	1	BILCO 48" X 48" ALUMINUM DOUBLE DOOR HATCH OR APPROVED EQUIVALENT											
10	4	ADJUSTABLE PIPE SUPPORTS											
(11)	2	10" SMITH BLAIR OR EBAA TRANSITION COUPLINGS											
12	1	ALUMINUM LADDER WITH TELESCOPING SAFETY POST (LADDER UP)											
(13)	1	8" MUELLER 758 CAST IRON BODY "Y" STRAINER COMPLETE WITH BLOWDOWN VALVE - #125 FLGD											
(14)	1	3" MUELLER 11M CAST IRON BODY "Y" STRAINER COMPLETE WITH BLOWDOWN VALVE-THREADED											
(15)	2	3" VICTAULIC #07 COUPLING											
(16)	1	3/4" HOSE BIB ASSEMBLY											
17	1	PRESSURE RELIEF VALVE ASSEMBLY INCLUDES: 3" CLA-VAL 50A-01B PRESSURE RELIEF VALVE ANGLE STYLE - #150 FLGD 3" VICTAULIC #07 COUPLING 3" VICTAULIC #741 COUPLING ADAPTER 3" MUELLER A2360 RW NRS GATE VALVE											
(18)	1	DUPLEX PILOT STRAINER (PIPE MOUNTED)											
(19)	1	AUTOMATIC SUMP DRAIN EJECTOR											
20	2	10" RW NRS GATE VALVE W/ VALVE BOX-RESTRAINED JOINT											
21	1	1" APCO 143C.1 COMBINATION AIR VALVE ISOLATION VALVE, EXTENSION & BRASS UNION											
22	1	OPTIONAL: 30" MANHOLE COVER & FRAME (H20 LOADING) (APPLIES ONLY IF ABSOLUTELY NECESSARY; IT LIMITS EQUIPMENT REMOVAL FROM VAULT)											
OR AS	APP	QUIPMENT SHALL BE PROVIDED AS DIRECTED, ROVED BY THE CITY OF AUBURN. CITY ENGINEER: DATE: DATE: PRESSURE REDUCING VALVE STATION											
СОММ	TINC	CITY ENGINEER: DATE:											



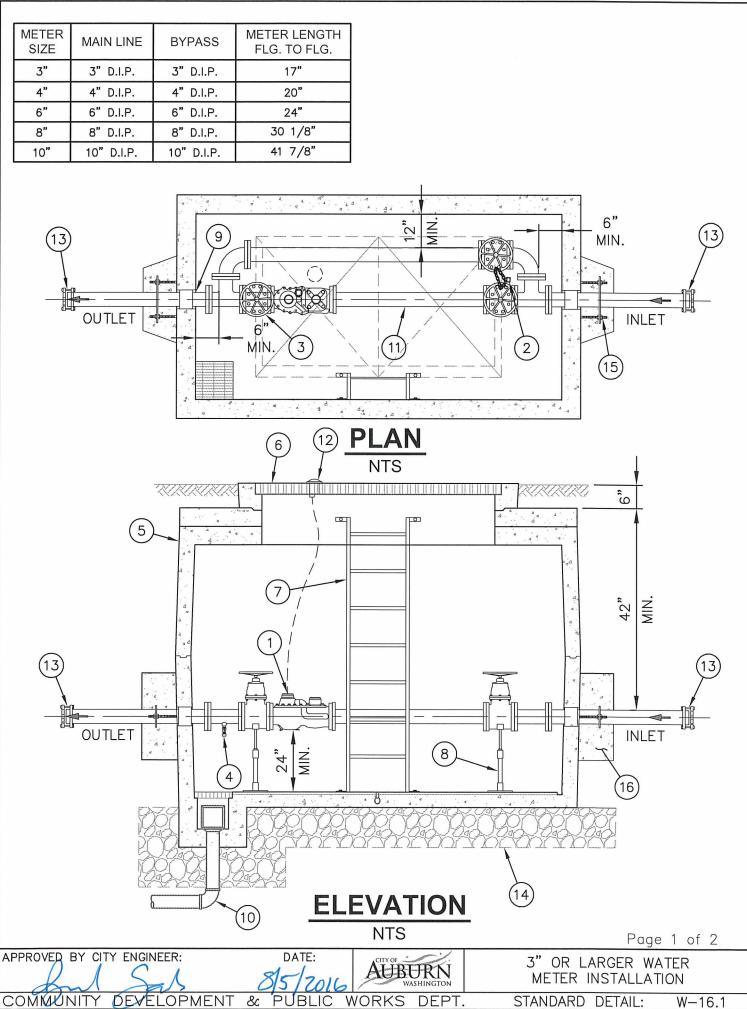


[
		BILL OF MATERIALS											
ITEM	QTY												
1	1	10" CLA-VAL 90G-01YBS PRESSURE REDUCING VALVE COMPLETE WITH X101 POS. IND., DIBT-#150 FLGD											
2	1	3" CLA-VAL 90G-01YBS PRESSURE REDUCING VALVE COMPLETE WITH X101 POS. IND., DIBT-THREADED											
3	2	10" RW NRS GATE VALVE COMPLETE WITH HANDWHEEL-#150 FLGD											
4	2	3" RW NRS GATE VALVE COMPLETE WITH HANDWHEEL-THREADED											
5	3	10" VICTAULIC #07 COUPLING											
6	1	3" VICTAULIC #07 COUPLING											
$\overline{7}$	2	4" WIKA (0–200 PSI) PRESSURE GAUGE COMPLETE WITH GAUGE COCK											
8	1	#10565 PRECAST CONCRETE VAULT WHITE LATEX INTERIOR & BLACK TAR EXTERIOR											
9	1	BILCO 48" X 48" ALUMINUM DOUBLE DOOR HATCH OR APPROVED EQUIVALENT											
10	4	ADJUSTABLE PIPE SUPPORTS											
(11)	2	12" SMITH BLAIR OR EBAA TRANSITION COUPLINGS											
(12)	1	ALUMINUM LADDER WITH TELESCOPING SAFETY POST (LADDERUP)											
(13)	1	10" MUELLER 758 CAST IRON BODY "Y" STRAINER COMPLETE WITH BLOWDOWN VALVE — #125 FLGD											
(14)	1	3" MUELLER 11M CAST IRON BODY "Y" STRAINER COMPLETE WITH BLOWDOWN VALVE-THREADED											
(15)	2	4" VICTAULIC #07 COUPLING											
(16)	1	3/4" HOSE BIB ASSEMBLY											
17	1	PRESSURE RELIEF VALVE ASSEMBLY INCLUDES: 3" CLA-VAL 50A-01B PRESSURE RELIEF VALVE ANGLE STYLE - #150 FLGD 3" VICTAULIC #07 COUPLING 3" VICTAULIC #741 COUPLING ADAPTER 3" MUELLER A2360 RW NRS GATE VALVE											
(18)	1	DUPLEX PILOT STRAINER (PIPE MOUNTED)											
(19)	1	AUTOMATIC SUMP DRAIN EJECTOR											
20	2	12" RW NRS GATE VALVE W/ VALVE BOX-RESTRAINED JOINT											
21	1	1" APCO 143C.1 COMBINATION AIR VALVE ISOLATION VALVE, EXTENSION & BRASS UNION											
22	1	OPTIONAL: 30" MANHOLE COVER & FRAME (H20 LOADING) (APPLIES ONLY IF ABSOLUTELY NECESSARY; IT LIMITS EQUIPMENT REMOVAL FROM VAULT)											
BY THE	E CIT	QUIPMENT SHALL BE PROVIDED AS DIRECTED, AND OR AS APPROVED Y OF AUBURN. Sheet 3 of 3 CITY ENGINEER: DATE: PRESSURE REDUCING VALVE STATION											
СОМИ	JNIT	TOEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-12b.2											





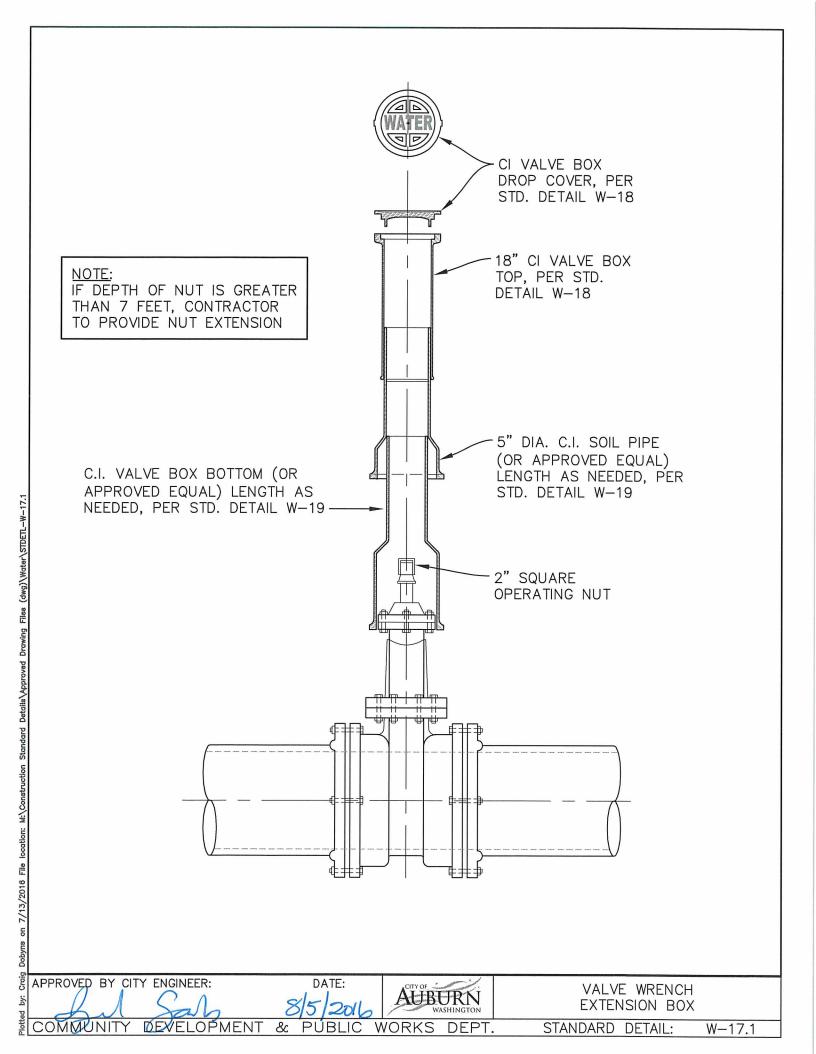
Г	WATER SERVICE MATERIAL SCHEDULE																		
	 THE CITY OF AUBURN ALLOWS 1-1/2" TO 2" POLYETHYLENE SDR-9 (IN COPPER TUBE SIZES) W/ STAINLESS STEEL LINERS IN ALL COUPLINGS & WRAPPED W/ A #10 INSULATED COPPER TRACER WIRE. FOR 1" COPPER, IT SHALL BE TYPE K COPPER TUBING W/OUT TRACER WIRE FOR WATER SERVICE & TAILPIECE CONNECTION, IN ACCORDANCE W/ STANDARD SPECIFICATION SECTION 9-30.6(3). ALL CONNECTIONS TO POLYETHYLENE OR COPPER TUBING SHALL BE W/ MUELLER 110 COMPRESSION CONNECTIONS OR EQUAL. TAILPIECE SHALL EXTEND TO R.O.W. LINE (18" MINIMUM BEYOND METER) & SHALL BE THE SAME SIZE AS THE SERVICE LINE. SADDLES FOR 1", 1-1/2", OR 2" PIPE TAPS SHALL BE EPOXY COATED OR E-COATED DUCTILE 																		
	IRON W/ DO FEMALE TH	S SHALL HAVE I.P.S.																	
 (8) CONTRACTOR SHALL FURNISH & INSTALL PRIVATE SERVICE LINE SHUT-OFF VALVE & RISER. FOR CAPITAL PROJECTS, SEE CONTRACT DOCUMENTS, OTHERWISE PROPERTY OWNER TO INSTALL PRIVA SERVICE LINE SHUT-OFF VALVE AT POINT OF CONNECTION. METER LOCATIONS: (1) WHERE LANDROADE STRIPP, ARE DEALWISE OF EVENT. THE METER A METER DOWN WITH THE PRIVACE AND FOR A METER AND FOR A METER AND FOR A METER A M																			
															 WHERE LANDSCAPE STRIPS ARE PLANNED OR EXIST, THE METER & METER BOX WILL BE PLANBETWEEN THE BACK OF THE CURB & THE SIDEWALK, ADJACENT TO THE SIDEWALK IF ROOM P WHERE THE SIDEWALK IS LOCATED ADJACENT TO THE BACK OF THE CURB OR THE LANDSCAP IS TOO NARROW TO ACCOMMODATE THE METER BOX, THE METER & METER BOX WILL BE PLACADJACENT TO & AT THE BACK OF SIDEWALK; WHERE METERS & METER BOXES ARE LOCATED IN THE STREET OR SIDEWALK OR IN LOCATION SUBJECTED TO VEHICULAR TRAFFIC, INCLUDING DRIVEWAYS, ETC., A TRAFFIC BEARING METER IN APPROPRIATE LOAD RATING SHALL BE PROVIDED AS SPECIFIED (EAST JORDAN IRON WORKS, CONTACTION) 				
		B VALVE IN THE METER BOX WHE IS AVAILABLE.	RE POSSIBLE & 1 FT.	OUTSIDE I	F NO ROOM INSIDE														
		METER LOCATION SHALL BE APPR	ROVED BY THE CITY.																
	SCHEDULE NO.	SERVIO	CE LINE SIZE & MUELL OR APPROVED		CATALOG NO.														
5	& PART	1"	1–1/2"		2"														
Working DWG\Water\STDETL-W-15.3	(3) CORP. STOP	DIRECT TAP OPTION: MUELLER B-25008N OR FORD FB1000-4-Q-NL <u>SADDLE OPTION:</u> MUELLER B-20013N W/ H-15451N OUTLET COUPLING OR FORD FB500-4-NL W/ C14-44-Q-NL OUTLET COUPLING	MUELLER B-2969N W H-15451N OUTLET CO OR FORD FB500-6-N C14-66-Q-NL OUTLE COUPLING	ÓUPLING NL W/	MUELLER B-2969N W/ H-15451N OUTLET COUPLING OR FORD FB500-7-NL W/ C14-77-Q-NL OUTLET COUPLING														
Current	(4) CURB VALVE	MUELLER B-20200N OR FORD B11-444W-NL	MUELLER B-20200N FORD B11-666W-NL	OR	MUELLER B-20200N OR FORD B11-777W-NL														
5/16/2018 File location: M:\Construction Standard Details\Current Working DW	5 METER YOKE	MUELLER B-2404R-2N W/ H-14222N INLET & H-14227N OUTLET COUPLINGS, 12" RISER W/ MUELLER H-10879 5/8"x3/4"x1" ADAPTERS FOR 3/4" METERS	MUELLER B-2423-2N H-15428N OUTLET C OR FORD VBH76-12B-11-66-N W/ C84-66-Q-NL O COUPLING, 12" RISER	OUPLING NL OTLET	MUELLER B-2423-2N W/ H-15428N OUTLET COUPLING OR FORD VBH77-12B-11-77-NL W/ C84-77-Q-NL OUTLET COUPLING, 12" RISER														
2018 File location: M:\C	6 METER BOX	HUBBELL QUAZITE 13"x24"x12" POLYMER CONCRETE BOX & COVER W/ READER LID & 2" AMR PORT W/ (2) 2 ½ X 3 MOUSEHOLES (BO3132412M)	HUBBELL QUAZITE 17 BOX & COVER W/ RE W/ (2) 2 ½ x 3 MOL	EADER LID	& 2" AMR PORT &														
5/16/	7 COUPLING	MUELLER H-15428N OR FORD C84-44-Q-NL	MUELLER H-15428N FORD C84-66-Q-NL		MUELLER H-15428N OR FORD C84-77-Q-NL														
Dobyns on	8 SHUT-OFF VALVE	MUELLER B-20200N W/ B-2029 W/ 8" IRRIGATION BOX AND 6"	8-99000 LEVER HAND																
5	PPROVED BY CITY ENG	INEER: DATE:	AUBURN WASHINGTON		ER METER LOCATION MATERIAL SCHEDULE														
Plottec	COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-15.3																		

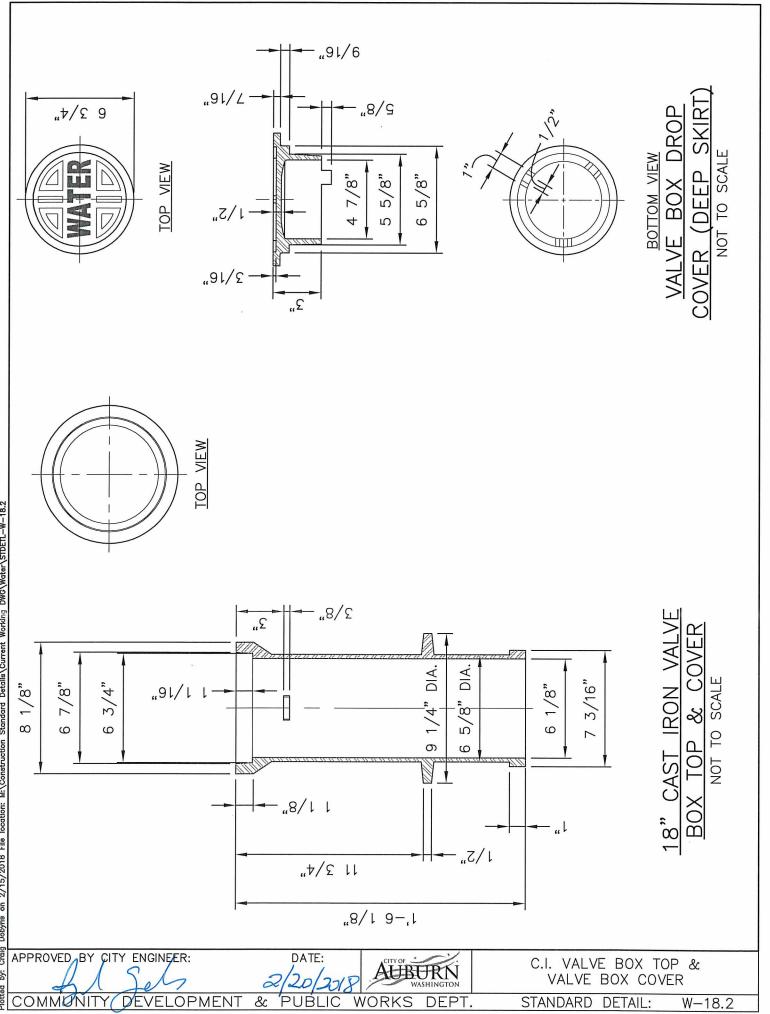


tocation: M:\Construction Standard Details\Approved Drawing Files (dwg)\Water\STDETL-W-16.1 on 7/13/2016 File Dobyns Croig ž Plotted

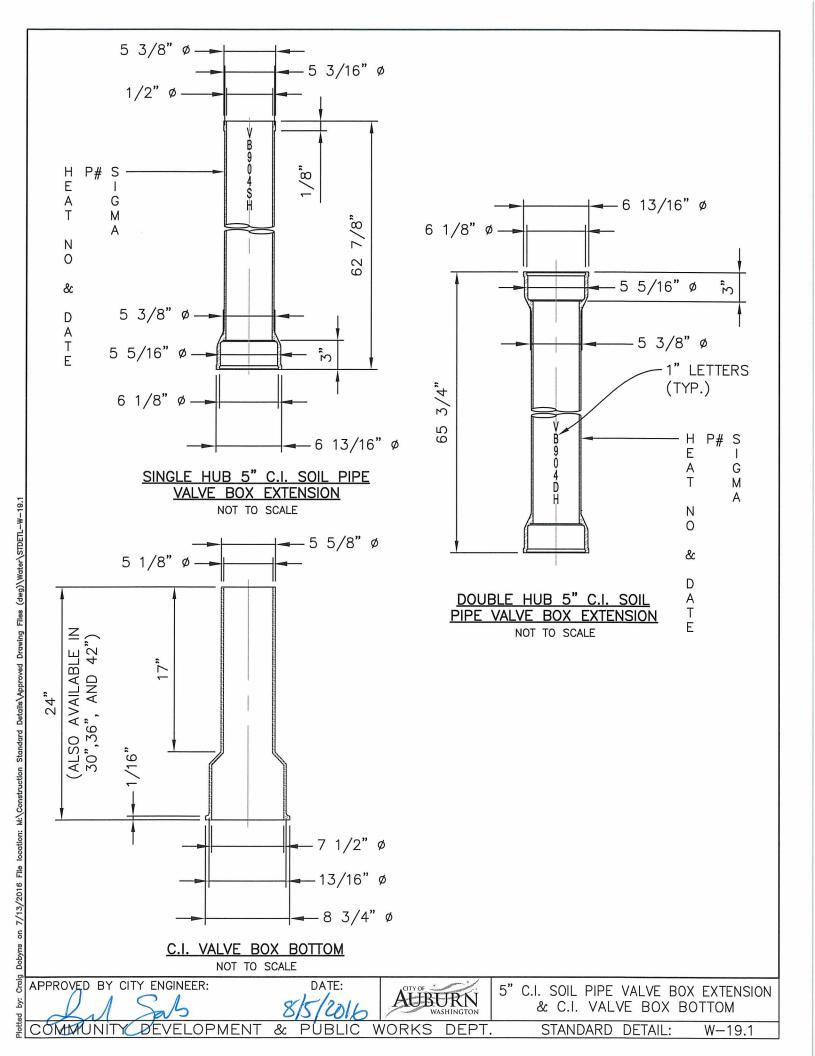
				LT—IN EM.						T IS OVER 30" DEEP)			ASIBLE,				MINIMUM					HE MAIN		
Details\Current Working DWG\Water\STDETL-W-16a.2		BILL OF MATERIALS	Description	METER PROVIDED BY CITY FOR CONTRACTOR INSTALLATION: SENSUS OMNI C2 COMPOUND METER OR APPROVED EQUAL FLANGED WITH BUILT-IN STRAINER AND ENCODERS COMPATIBLE WITH CURRENT SENSUS AMR/AMI SYSTEM.		AWWA C-509 OR C-515 GATE VALVE COMPLETE WITH HAND WHEEL.	3/4" HOSE BIB COMPLETE WITH VACUUM BREAKER	PRECAST CONCRETE VAULT COMPLETE WITH COLLAR, C555 BLACK EXTERIOR DAMPPROOFING, C555 WHITE INTERIOR PAINT	36"x72" ALUMINUM HATCH H20-44 CLASS B, STATIC LOADING	APPROVED SAFETY LADDER W/ TELES	GALVANIZED STEEL ADJUSTABLE PIPE SUPPORT	PIPE SEAL ASSEMBLY	SUMP DRAIN, CONNECT TO CITY STORM SYSTEM, IF GRAVITY DRAIN IS NOT FEASIBLE, A SUMP PUMP WITH CHECK VALVE ON DISCHARGE LINE IS REQUIRED	SPOOL, LENGTH AS REQUIRED AND PER METER MANUFACTURER REQUIREMENTS	2" AMR PORT	SMITH BLAIR OR EBAA TRANSITION COUPLINGS	5/8" MINUS CRUSHED ROCK FOUNDATION WITH COMPACTED DEPTH OF 12" MI	THRUST SEAL PLATE C/W ANCHORING BOLTS	REINFORCED CONCRETE THRUST BLOCKS	FINISHING SPECIFICATION	BE SANDBI COATING S	BYPASS SHALL BE NORMALLY CLOSED AND LOCKED WITH THE GATE VALVE ON THE MAIN KEYS GIVEN TO THE CITY.	BE ACCO	
onstruction Standard			Quantity	-	-	ъ	-	٢	٢	1	2	2	۲	1	٢	2	AS REQ'D	2	2	RICATION &		E ON THE BY OWN AND KE	S	
5/16/2018 File location: M:\Construction			Part Number	Θ	3	3	(4)	5	9		8	6	10	(1)	(12)	(13)	(14)	(15)	16	STANDARD FABRICATION	1) ALL STEEL PIPE SPECIFICATIONS.	2) GATE VALVE ON THE LINE AS SHOWN AND	3) DUCTILE IRON PIPE	
Dobyns on																						P	age	2 of
Plotted by: Craig		ROVED			n	5		E	0/2	DA ⁻	201		A	B W	UR	N				METER	_ARGE INSTA	ALLA ⁻	ΓΙΟΝ	
Plot	CO	MMC	INIT	YDEV	ΈL(JPI	MEI	NT 8	k F	PUE	3LI(<u> </u>	NORI	KS	DE	ΞΡΤ			ST	ANDARD) DET	AIL:	W-	16a.2

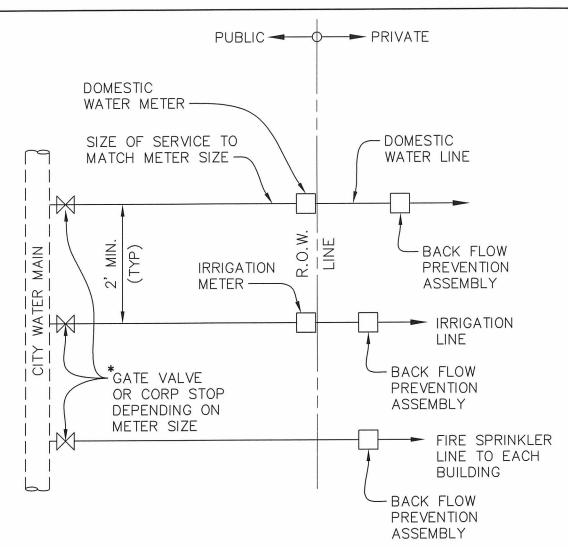
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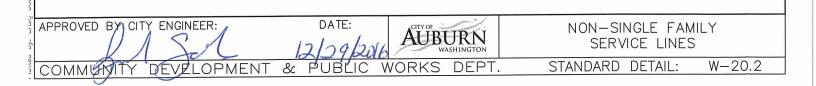
Plotted by: Craig Dobyns on 2/15/2018 File location: Mt/Construction Standard Details/Current Working DWG/Water/STDETL-W-18.2

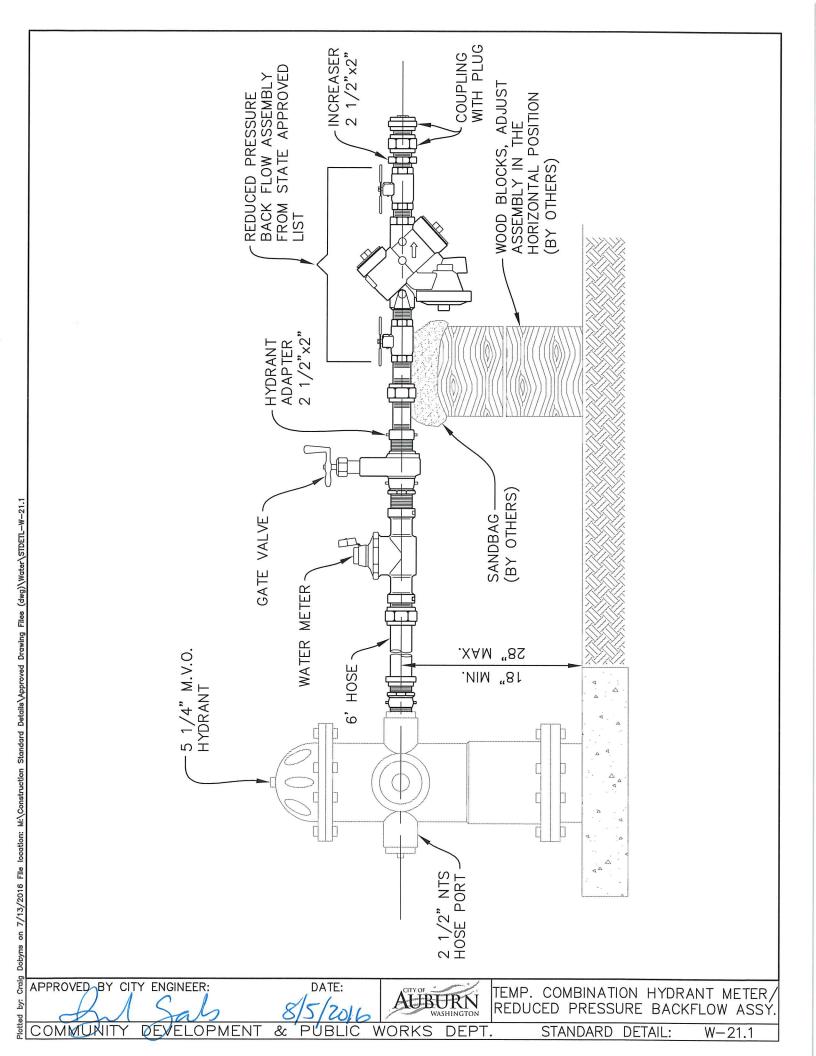


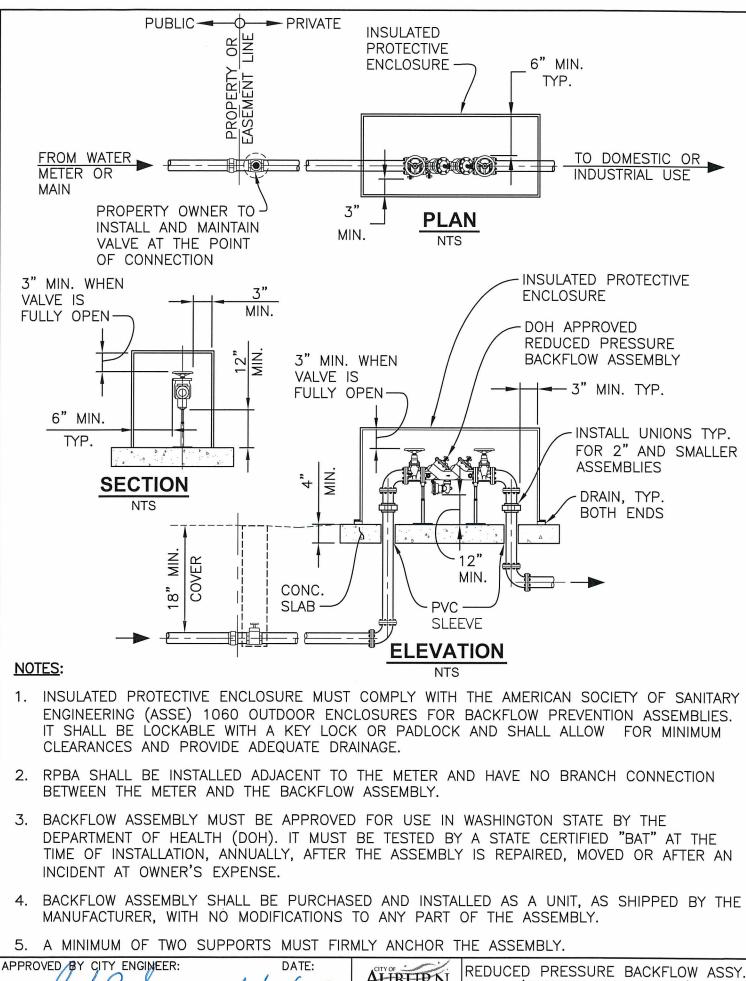


NOTES:

- 1. CONNECTION TO CITY WATER MAIN PER CITY OF AUBURN REQUIREMENTS.
- 2. BACK FLOW ASSEMBLY IS REQUIRED ON FIRE SPRINKLER, DOMESTIC, & IRRIGATION LINES. TYPE OF ASSEMBLY SHALL BE PER DESIGN STANDARDS.
- 3. PLANS FOR SEPARATE FIRE SPRINKLER LINE MUST BE SUBMITTED & APPROVED BY THE FIRE MARSHAL PRIOR TO INSTALLATION, AND SHALL BE DESIGNED BY A FIRE PROTECTION ENGINEER.
 - * FOR METERS 2" OR LESS USE CORP STOP & FOR METERS LARGER THAN 2" USE GATE VALVE WITH 2" STANDARD OPERATING NUT & COA VALVE BOX TO SURFACE.







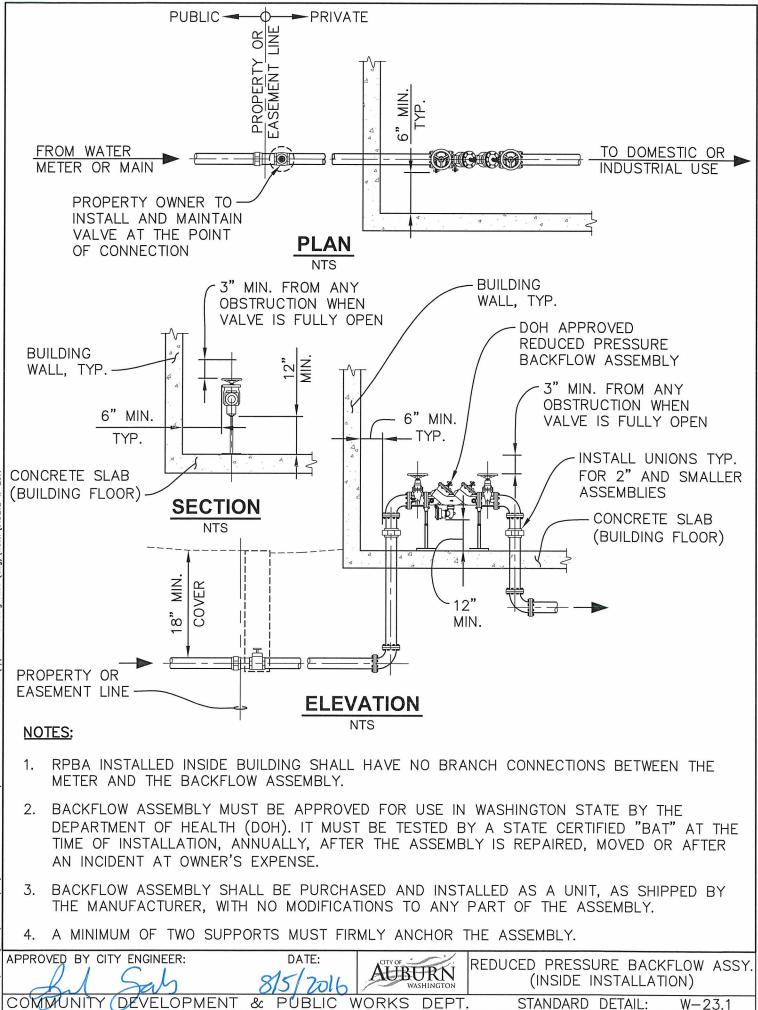
COMMUNITY DEVELOPMENT

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AUBURN WASHINGTON PUBLIC WORKS DEPT.

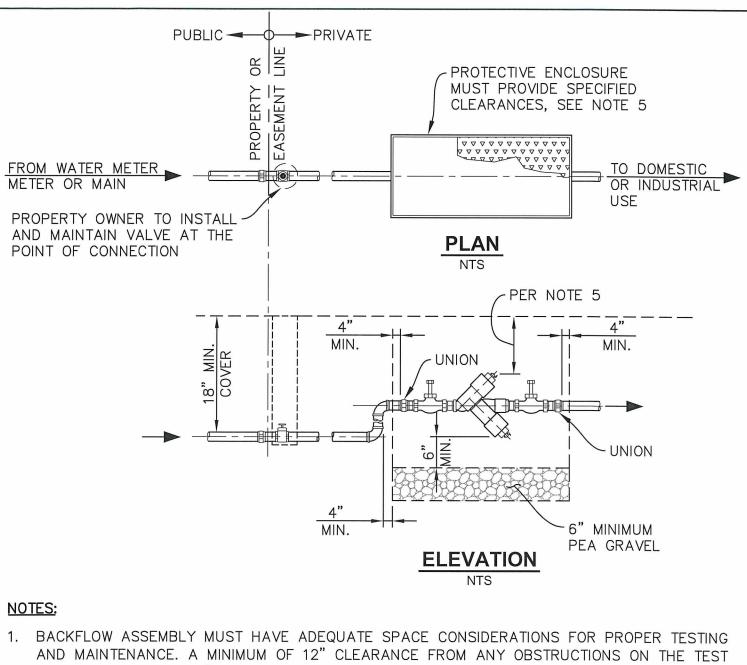
(OUTSIDE INSTALLATION) STANDARD DETAIL: W - 22.2



STANDARD DETAIL:

W-23.1

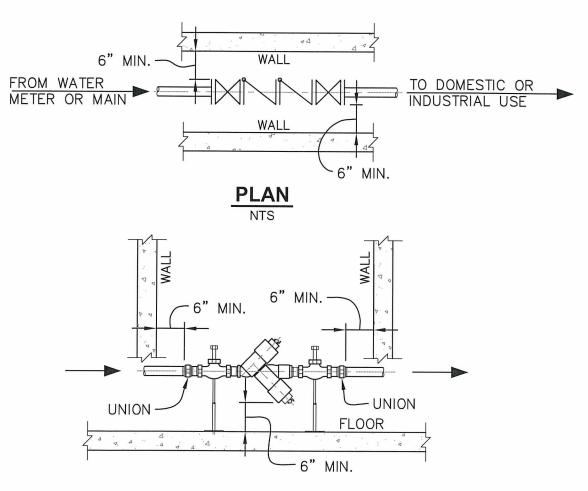
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- SIDE. A MINIMUM OF 6" CLEARANCE BELOW ASSEMBLY AND A MINIMUM OF 6" OF PEA GRAVEL IN THE BOTTOM OF THE BOX. THE MINIMUM CLEARANCE FROM THE TOP OF THE PEA GRAVEL TO THE BOTTOM OF THE ASSEMBLY IS 6".
- 2. DCVA MUST BE INSTALLED WITH TEST COCKS FACING UP. TEST COCKS MUST BE PLUGGED WITH BRASS OR PLASTIC PLUGS.
- 3. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
- 4. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- 5. MINIMUM CLEARANCE AT ABOVE ASSEMBLY SHALL BE: 9" (FOR 3/4" METER), 12" (FOR 1" METER), AND 14" (FOR 1 1/2" & 2" METER).



DOUBLE CHECK VALVE ASSEMBLY (OUTSIDE INSTALLATION) STANDARD DETAIL: W-24.1



ELEVATION NTS

NOTES:

- 1. BACKFLOW ASSEMBLY MUST HAVE ADEQUATE SPACE CONSIDERATIONS FOR PROPER TESTING AND MAINTENANCE. A MINIMUM OF 6" SIDE CLEARANCE BETWEEN DCVA AND WALL OR ANY OBSTRUCTIONS AND A MINIMUM OF 6" CLEARANCE BELOW ASSEMBLY SHALL BE PROVIDED.
- 2. DCVA MUST BE INSTALLED WITH TEST COCKS FACING UP. TEST COCKS MUST BE PLUGGED WITH BRASS OR PLASTIC PLUGS.
- 3. DCVA INSTALLED INSIDE BUILDING SHALL HAVE NO BRANCH CONNECTIONS BETWEEN THE METER AND THE BACKFLOW ASSEMBLY.
- 4. BACKFLOW ASSEMBLY MUST BE APPROVED FOR USE IN WASHINGTON STATE BY THE DEPARTMENT OF HEALTH (DOH). IT MUST BE TESTED BY A STATE CERTIFIED "BAT" AT THE TIME OF INSTALLATION, ANNUALLY, AFTER THE ASSEMBLY IS REPAIRED, MOVED OR AFTER AN INCIDENT AT OWNER'S EXPENSE.
- 5. BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT, AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- 6. TWO SUPPORTS, EITHER WALL OR FLOOR, ONE ON EACH SIDE OF THE ASSEMBLY, MUST FIRMLY ANCHOR THE ASSEMBLY.

