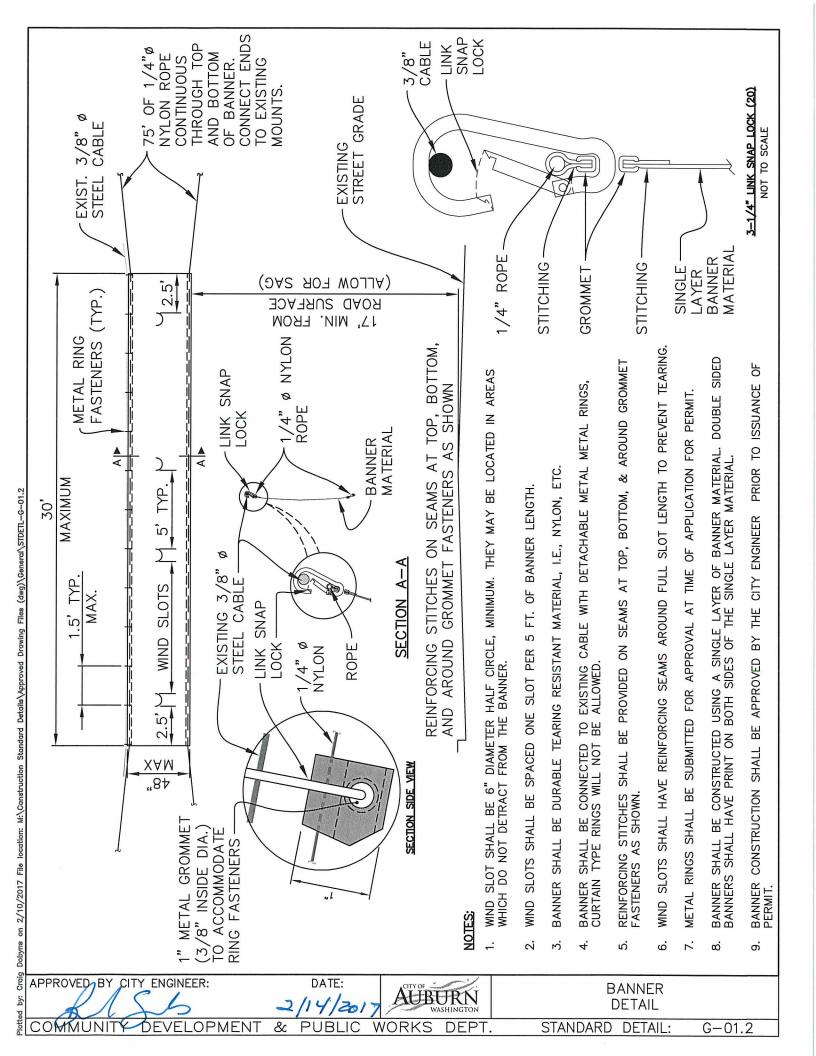
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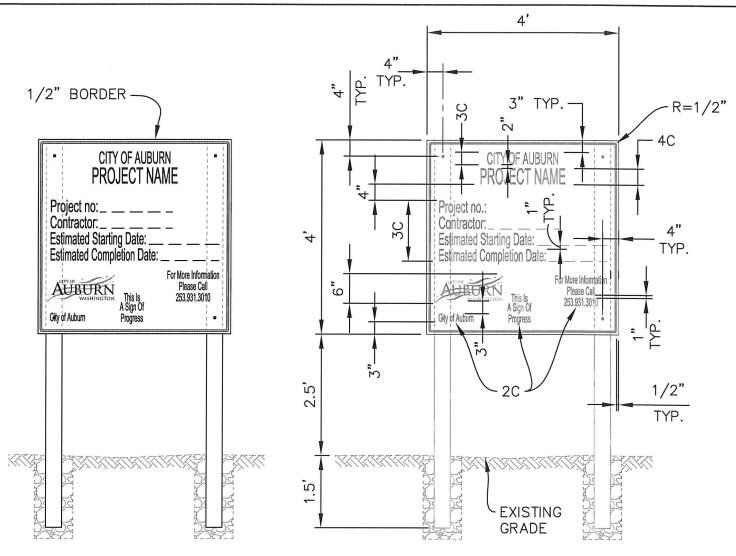
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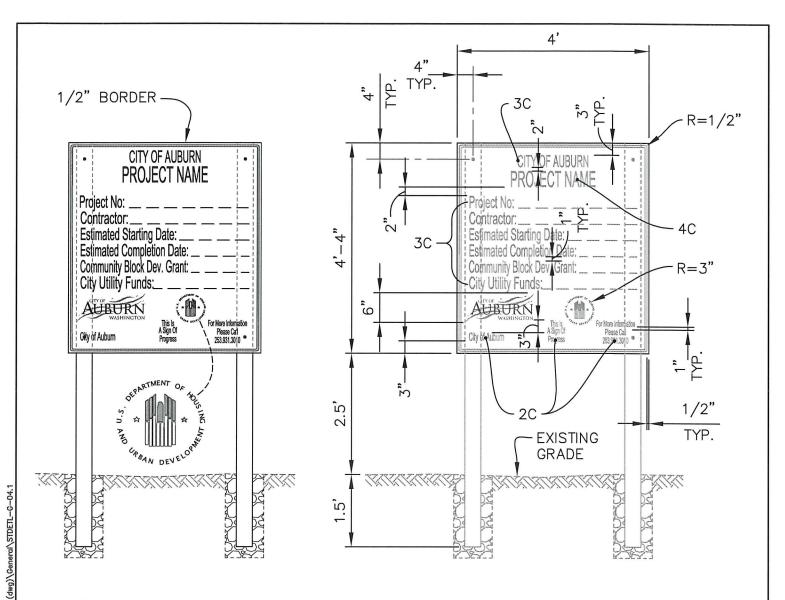




CONSTRUCTION NOTES:

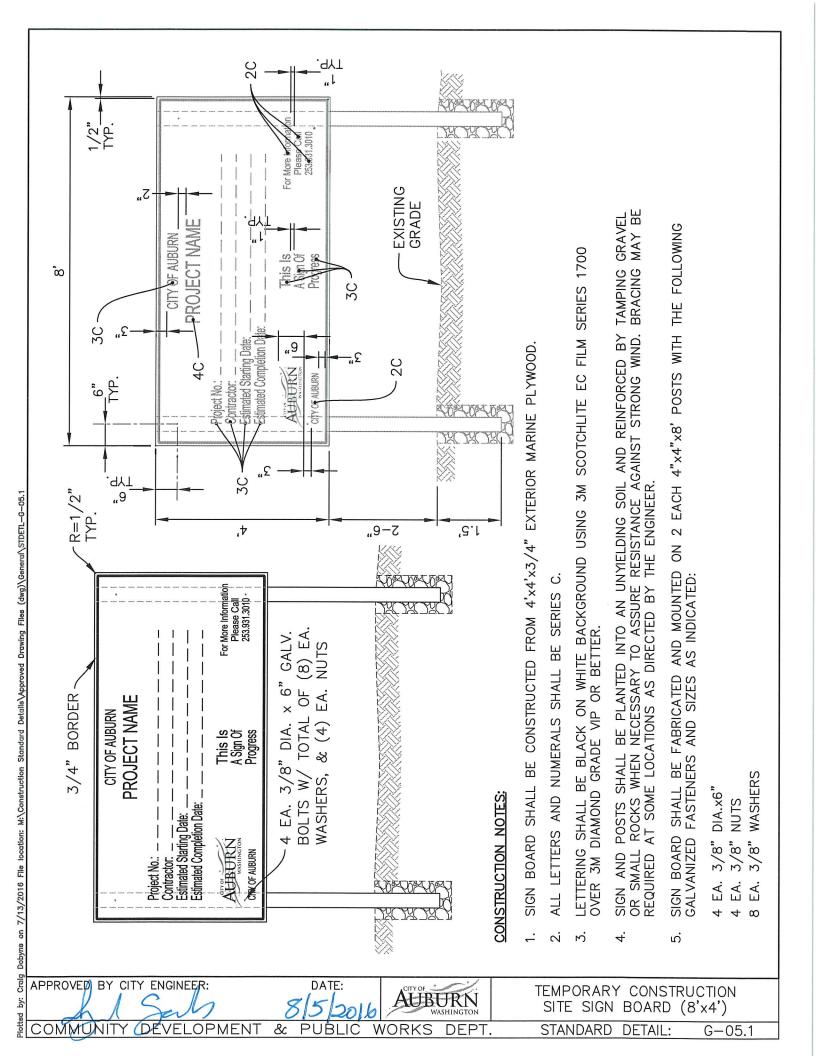
- SIGN BOARD SHALL BE CONSTRUCTED FROM 4'x4'x3/4" EXTERIOR MARINE PLYWOOD.
- 2. ALL LETTERS AND NUMERALS SHALL BE SERIES C.
- 3. LETTERING SHALL BE BLACK ON WHITE BACKGROUND USING 3M SCOTCHLITE EC FILM SERIES 1700 OVER 3M DIAMOND GRADE VIP OR BETTER.
- 4. SIGN AND POSTS SHALL BE PLANTED INTO AN UNYIELDING 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

APPROVED BY CIT	Y ENGINEER:	DATE: 815/2016	AUBURN WASHINGTON	TEMPORARY CONSTRUCTION SITE SIGN BOARD (4'x4')
COMMONITY	DEVELOPMENT	& PUBLIC W	VORKS DEPT.	STANDARD DETAIL: G-02.1



CONSTRUCTION NOTES:

- 1. SIGN BOARD SHALL BE CONSTRUCTED FROM 3/4" EXTERIOR MARINE PLYWOOD.
- 2. ALL LETTERS AND NUMERALS SHALL BE SERIES C.
- 3. LETTERING SHALL BE BLACK ON WHITE BACKGROUND USING 3M SCOTCHLITE ECFILM 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



MAINTENANCE STANDARDS:

- SMALL SITE IS DEFINED AS A SITE THAT ADDS OR REPLACES LESS THAN 5,000 SQUARE FEET OF IMPERVIOUS SURFACE & DISTURBS LESS THAN ONE ACRE.
- QUARRY SPALLS PLUS WOVEN GEOTEXTILE FABRIC UNDER ROCK SHALL BE ADDED AS NEEDED TO KEEP THE ENTRANCE IN CONFORMANCE WITH THESE STANDARDS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT. THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE SHOVELING, PICKUP SWEEPING, & HAND SWEEPING, AN INCREASE IN THE ENTRANCE DIMENSIONS, OR THE INSTALLATION OF A SELF-CONTAINED WHEEL WASH STATION. (REFER TO DOE BMP C-106 FOR MORE INFORMATION).
- ANY SEDIMENT THAT IS TRACKED ONTO STREET PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SHOVELING, PICKUP SWEEPING, & HAND SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ONSITE. PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE & THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, A CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- 5. ANY ROCK SPALLS THAT ARE LOOSENED FROM THE DRIVEWAY PAD & ONTO THE ROADWAY SHALL BE REMOVED IMMEDIATELY. VACTOR TRUCK MUST BE USED TO CLEAN CATCH BASIN IF IT BECOMES PLUGGED.
- 6. VEHICLES SHALL NOT ENTER OR EXIT THE SITE OTHER THAN THE CONSTRUCTION ENTRANCE(S).
- 7. REMOVE TEMPORARY CONSTRUCTION ENTRANCE/EXIT UPON COMPLETION OF THE ON-SITE WORK.

APPROVED BY CITY ENGINEER: COMMUNITY

M:\Construction

File

DATE:

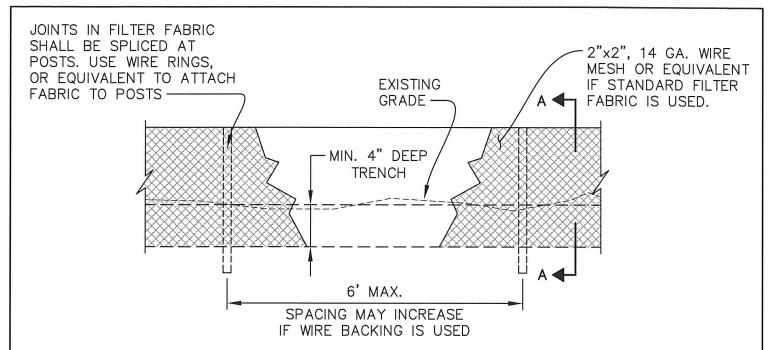
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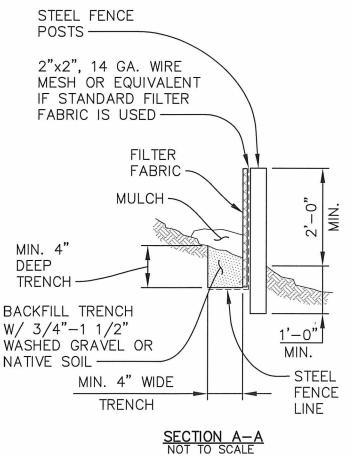
TEMPORARY CONSTRUCTION ENTRANCE / EXIT

STANDARD DETAIL:

E - 01.1



SILT FENCE NOT TO SCALE



MAINTENANCE STANDARDS:

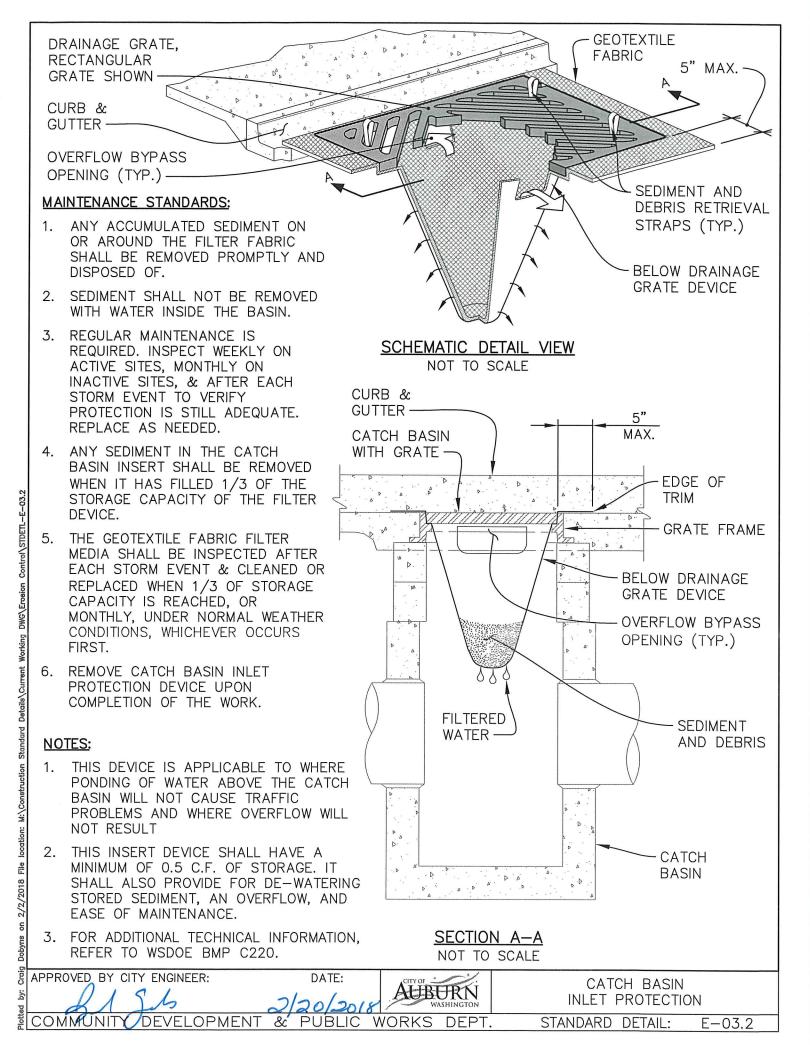
- INSPECT WEEKLY ON ACTIVE SITES, MONTHLY ON INACTIVE SITES, & AFTER EACH STORM EVENT TO VERIFY PROTECTION IS STILL ADEQUATE. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.
- 3. THE UPHILL SIDE OF THE FENCE SHALL BE PERIODICALLY CHECKED FOR SIGNS OF CLOGGING CAUSING CHANNELIZATION OF THE FLOWS PARALLEL TO THE FENCE. IN SUCH CASE, REPLACE THE FENCE AND OR REMOVE THE TRAPPED DEBRIS AND SEDIMENT.
- 4. SEDIMENT AND DEBRIS BUILD UP MUST BE REMOVED WHEN 6" HIGH.
- 5. REMOVE AND REPLACE DETERIORATED FILTER FABRIC DUE TO ULTRAVIOLET BREAKDOWN.
- 6. UPON COMPLETION OF WORK AND WHEN ALLOWED BY THE CITY OF AUBURN, THE CONTRACTOR SHALL REMOVE ALL FILTER FABRIC FENCE AND GRAVEL. PROVIDE FINISH GRADES WITH SURFACING MATERIAL AND LANDSCAPING AS REQUIRED.
- 1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
- 2. FOR ADDITIONAL TECHNICAL INFORMATION, REFER TO WSDOE BMP C233.

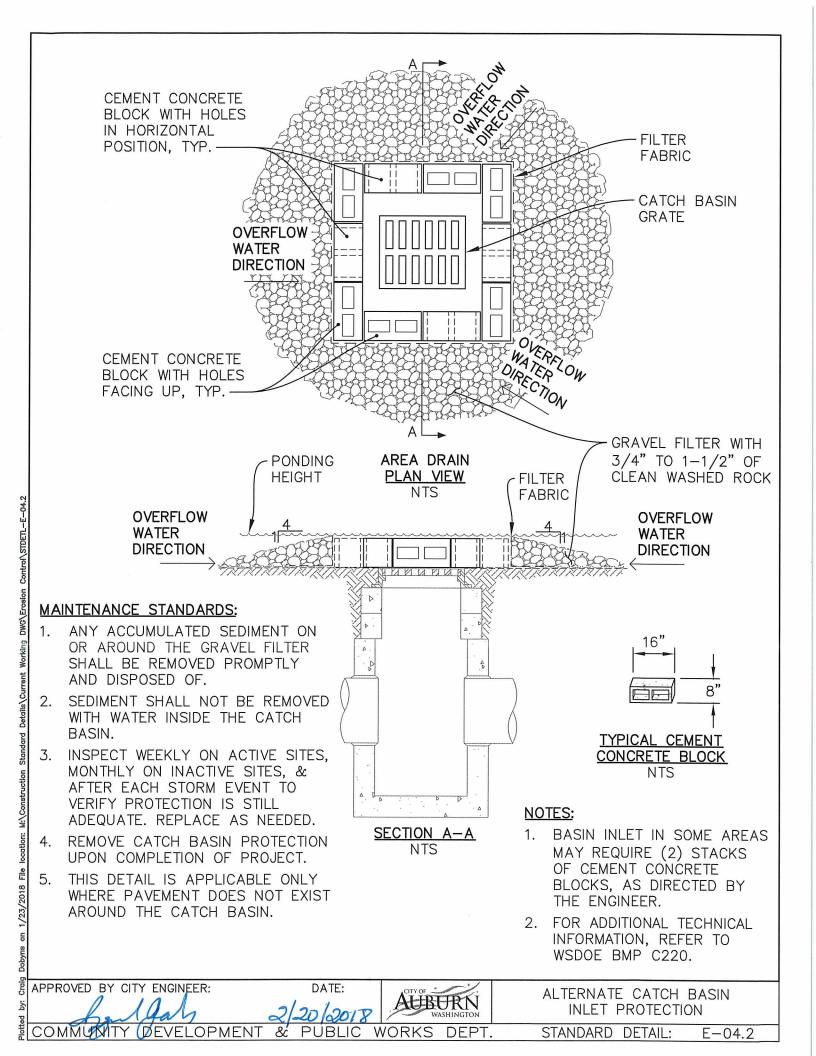
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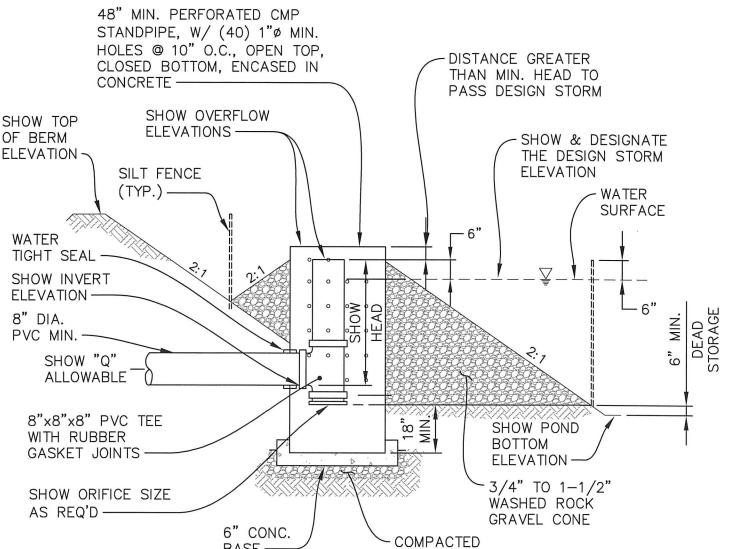
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SILT CONTROL
FENCE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: E-02.1



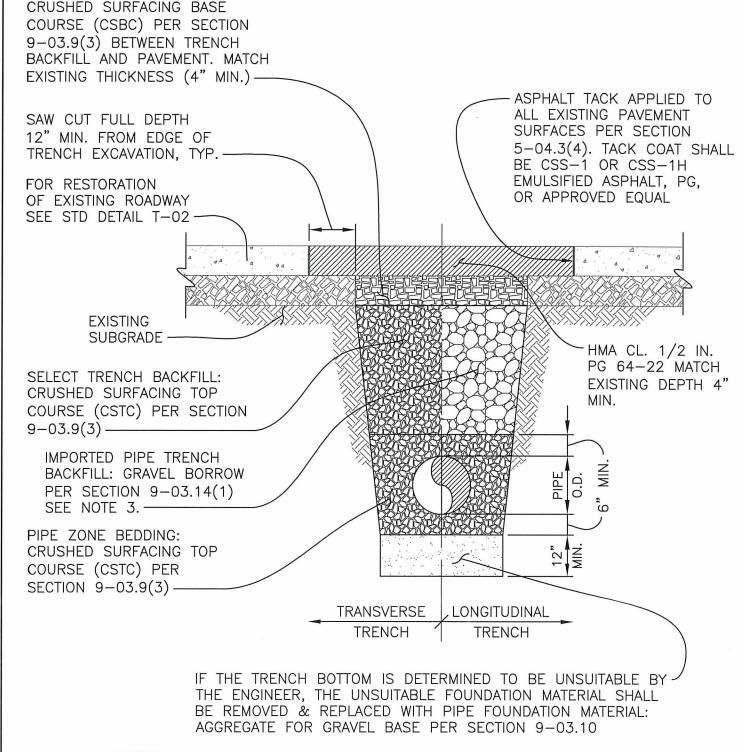




GRAVEL BASE

- 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.
- THIS DETAIL IS FOR DESIGN GUIDANCE ONLY, THE ENGINEER IS RESPONSIBLE FOR PROVIDING THE NECESSARY ELEVATIONS AND ORIFICE SIZES.
- 7. REFER TO WSDOE BMP 220 FOR ADDITIONAL INFORMATION.

APPROVED BY CITY ENGINEER: DATE: GRADING/EROSION DISCHARGE AUBURN CONTROL STRUCTURE COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: E-05.1



- 1. TRANSVERSE TRENCHES ARE TRENCHES THAT RUN PERPENDICULAR OR DIAGONAL ACROSS THE TRAVELED WAY OF THE ROAD. LONGITUDINAL TRENCHES ARE TRENCHES THAT RUN PARALLEL WITH THE TRAVELED WAY OF THE ROAD.
- 2. ALL BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
- 3. MAY USE NATIVE MATERIAL FOR LONGITUDINAL TRENCH BACKFILL IF MATERIAL MEETS REQUIREMENTS OF SECTION 9-03.14(1).

APPROVED BY CITY ENGINEER:

DATE:

TYPICAL PIPE
TRENCH BACKFILL

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: T-01.2

- 2. TRENCHES IN/ACROSS INTERSECTIONS SHALL BE CONSIDERED "TRANSVERSE".
- 3. ASPHALT PAVEMENT SHALL MATCH EXISTING PAVEMENT THICKNESS AND GRADE, OR PER DESIGN STANDARDS, WHICHEVER IS THICKER/STRONGER.
- 4. WHERE THE TRENCH CROSSES A CROSSWALK/PEDESTRIAN PATH AND THE TOTAL RESTORATION WIDTH EQUALS OR EXCEEDS HALF THE PEDESTRIAN PATH LENGTH, THE CONTRACTOR SHALL UPGRADE EXISTING CURB RAMPS THAT DO NOT MEET CURRENT ADA STANDARDS OR INSTALL NEW CURB RAMPS IF NOT PRESENT.

APPROVED BY CITY ENGINEER:

DATE:

2/20/2015

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

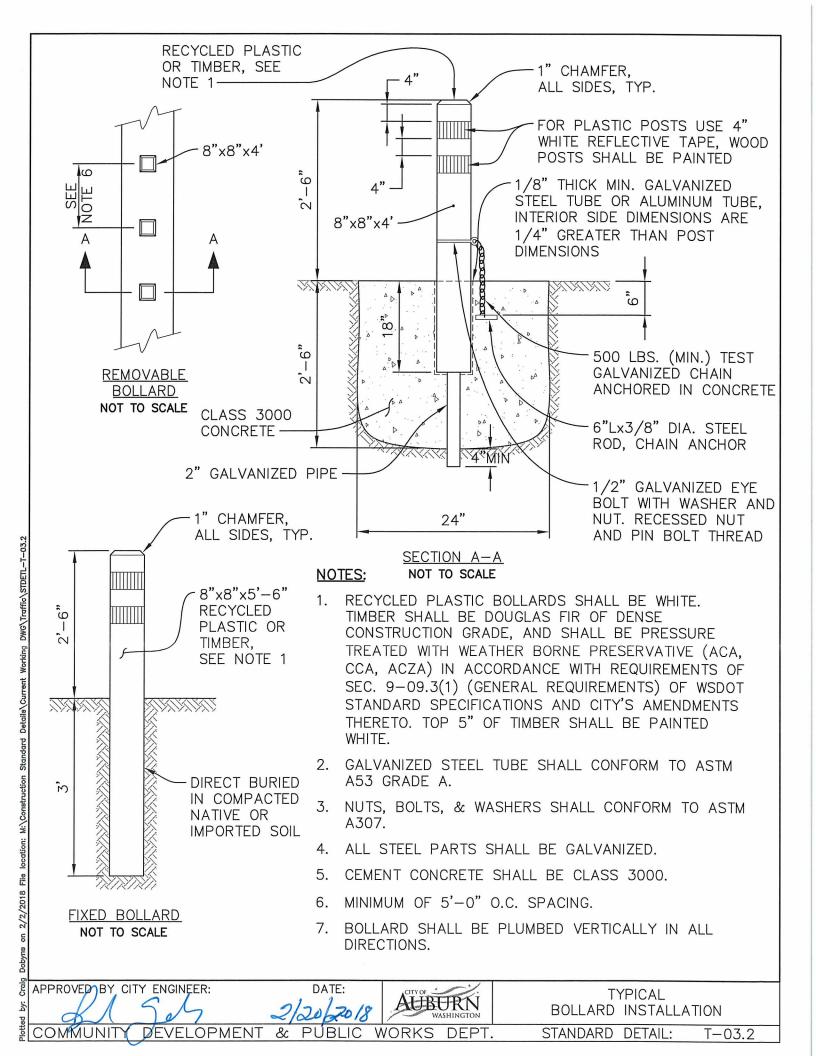
DATE:

EXISTING ROADWAY RESTORATION
OF UTILITY TRENCHES

STANDARD DETAIL: T-02.2

2/2/2018 File location: M:\Construction Standard Details\Current Working DWG\Traffic\STDETL-T-02...

TRANSVERSE TRENCH —



- 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.

APPROVED BY CITY ENGINEER:

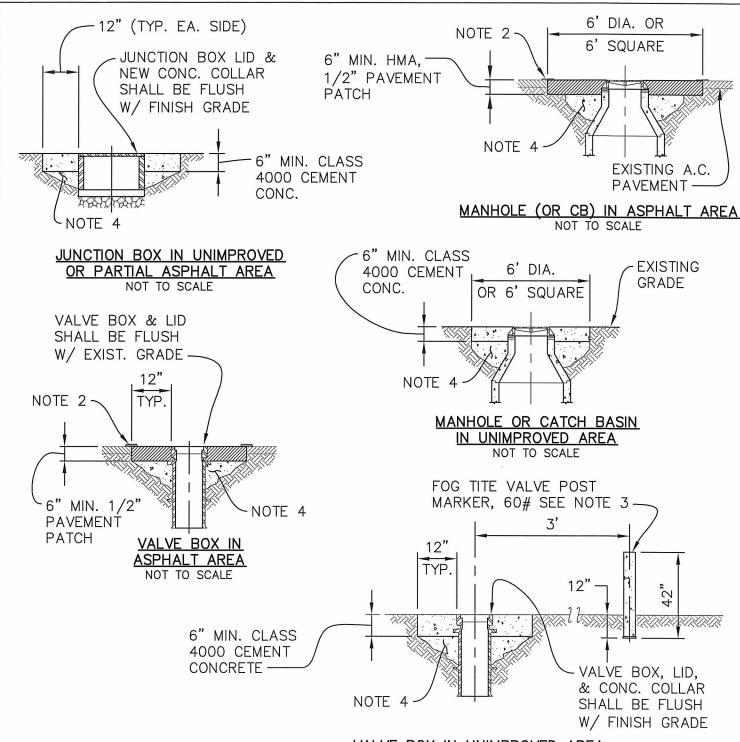
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DRIVEWAY WIDTHS
AND LOCATION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-04.3

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VALVE BOX IN UNIMPROVED AREA NOT TO SCALE

NOTES:

- 1. ADJUSTMENT OF SANITARY SEWER AND STORM STRUCTURES SHALL BE PER SECTION 7-05.3(1). ADJUSTMENT OF WATER UTILITY STRUCTURES SHALL BE PER SECTION 7-12.3(2).
- SURFACE SEAL AT MATCHLINE SHALL BE CSS-1 OR CSS-1H EMULSIFIED ASPHALT OR PG.
- 3. VALVE IN UNIMPROVED AREAS SHALL HAVE A VALVE POST MARKER.
- 4. FILL ANY VOIDS OR DISTURBED AREAS BELOW 6" WITH QUICK SETTING CEMENT CONCRETE, DEPTH AS REQUIRED.
- 5. RISER RING HEIGHT 2" MIN. 25" MAX. ANY ADJUSTMENT OVER 18" REQUIRES A HAND HOLD.

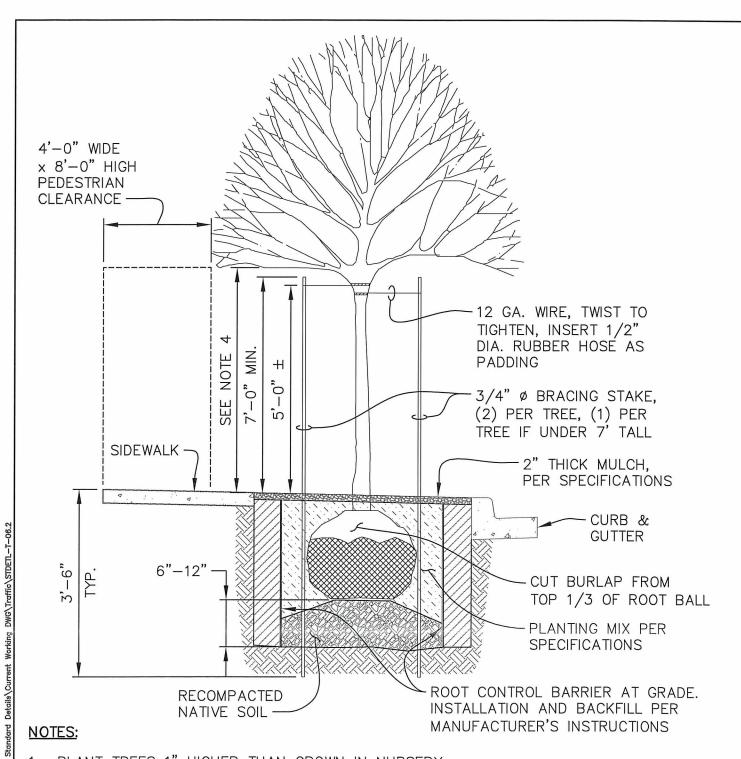
APPROVED BY CITY ENGINEER:

DATE:

AUBURN WASHINGTON

ADJUSTMENT OF NEW AND EXISTING UTILITY STRUCTURES TO FINISH GRADE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: T-05.2



- . PLANT TREES 1" HIGHER THAN GROWN IN NURSERY.
- 2. TREE PIT SHALL NOT BE LESS THAN 2 TIMES THE ROOT BALL DIAMETER.
- 3. STREET TREES SHALL NOT BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
- 4. AT TIME OF PLANTING, MAINTAIN LOWER BRANCHES OF TREE AT 5' MIN. CLEARANCE ABOVE THE SIDEWALK.
- 5. STREET TREES SHALL BE SELECTED FROM THE CITY APPROVED LIST OF STREET TREES.

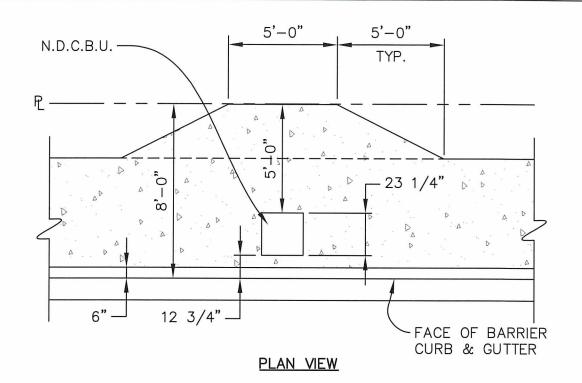
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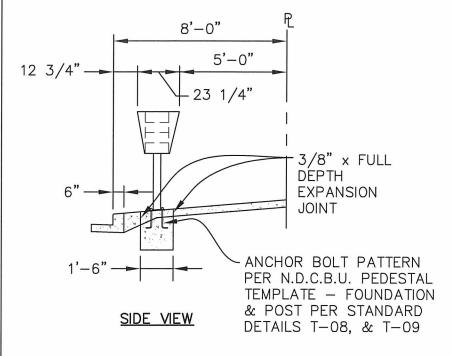
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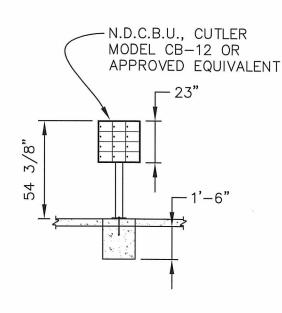
STREET TREE
IN LANDSCAPE STRIP

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-06.2







FRONT VIEW

MAILBOX LOCATIONS SHALL BE COORDINATED WITH THE SERVING POST OFFICE AND APPROVED BY THE CITY OF AUBURN.

APPROVED BY CITY ENGINEER:

DATE: 8/5/201



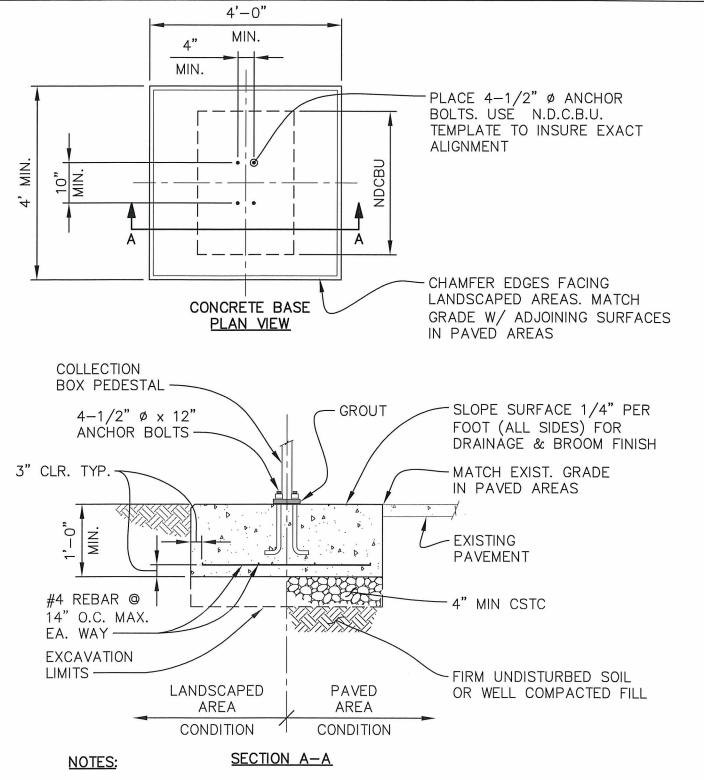
NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N.D.C.B.U.) INSTALLATION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL:

T-07.1





- 1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, CONTAIN 4% MIN. TO 6% MAX. AIR ENTRAINMENT AND BE PLACED WITH A 3-1/2" TO 4-1/2" SLUMP IN ACCORDANCE WITH ACI 301.
- 2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
- 3. ANCHOR BOLTS SHALL CONFORM TO ASTM A307, GALVANIZED CARBON STEEL OR ASTM A193, B8M (316) STAINLESS STEEL.
- 4. GROUT SHALL BE NON-SHRINK, NON-METALLIC.

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

DATE: 2/20/2018



NEIGHBORHOOD DELIVERY & COLLECTION BOX UNIT (N.D.C.B.U.) SINGLE UNIT

ARRANGE IN GROUPS SO THAT OVERALL DIMENSION OF BASE DOES NOT EXCEED 16'-0"

NDCBU

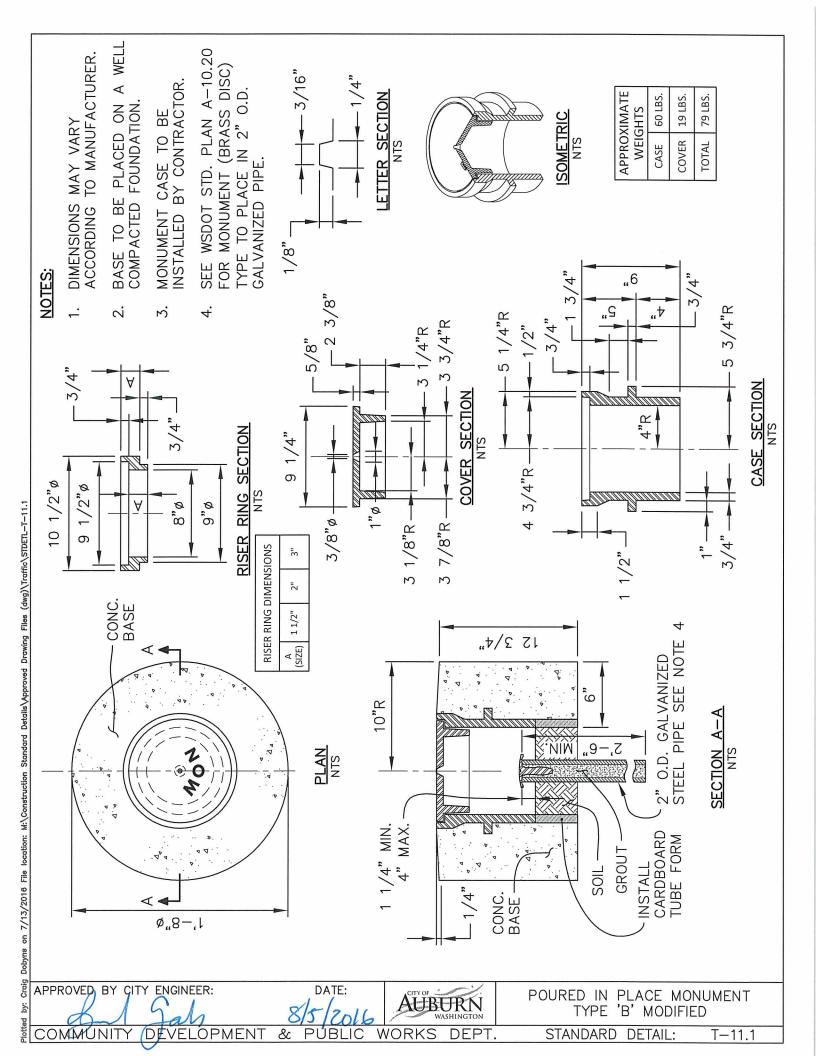
PLACE 4-1/2" DIA. ANCHOR BOLTS. USE TEMPLATE TO INSURE

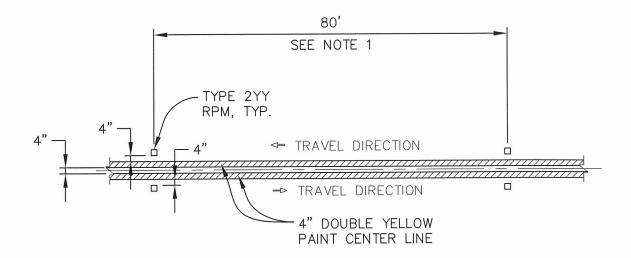
EXACT ALIGNMENT

1. CONCRETE BASE DIMENSION "L" IS THE WIDTH OF NDCBU PLUS 2". FOUNDATION CAN BE

- 2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, CONTAIN 4% MIN. TO 6% MAX. AIR ENTRAINMENT AND BE PLACED W/ A 3 1/2" TO 4 1/2" SLUMP IN
- 4. ANCHOR BOLTS SHALL CONFORM TO ASTM A307, GALVANIZED CARBON STEEL OR ASTM

APPROVED BY CITY ENGINEER: DATE: NEIGHBORHOOD DELIVERY & COLLECTION AUBURN BOX UNIT (N.D.C.B.U.) MULTIPLE UNITS COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: T - 09.2





PLAN DOUBLE CENTERLINE

NOTES:

1. RAISED PAVEMENT MARKERS SHALL BE SPACED AT 80' (FT.) INTERVALS ON TANGENTS AND ON HORIZONTAL CURVES W/ A RADIUS OF 1500' (FT.) OR MORE, AND 40' (FT.) INTERVALS ON HORIZONTAL CURVES HAVING RADII OF LESS THAN 1500' (FT.).

APPROVED BY CITY ENGINEER: FOR

DATE:

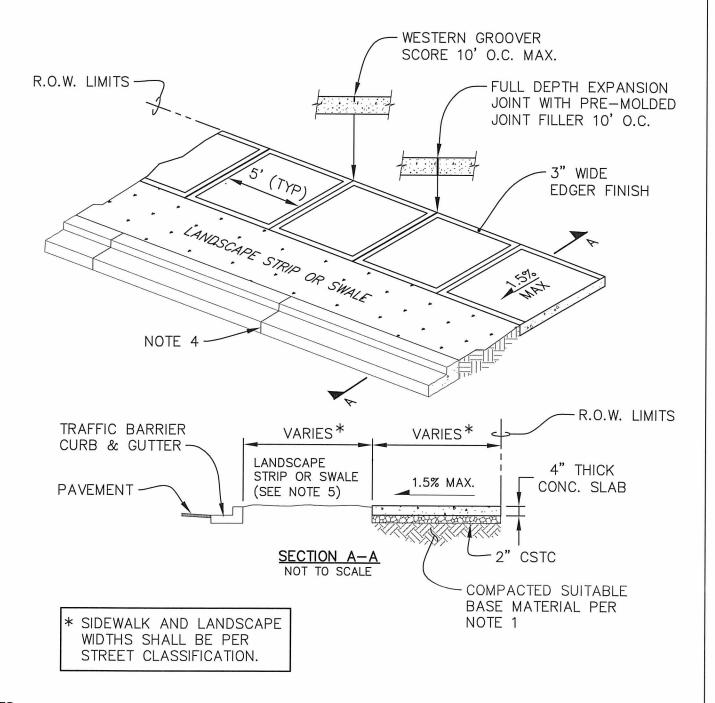
AUBURN WASHINGTON

DOUBLE CENTERLINE WITH RAISED PAVEMENT MARKERS

COMMUNITY ØEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL:

T-12.1



- 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 WITH 5% AIR ENTRAINMENT.
- 3. INSPECTION REQUIRED FOR FORM AND SUB GRADE APPROVAL BEFORE POURING CONCRETE.
- 4. MATCH JOINTS ON SIDEWALK WITH JOINTS ON CURB OR AT 10' O.C.
- 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.

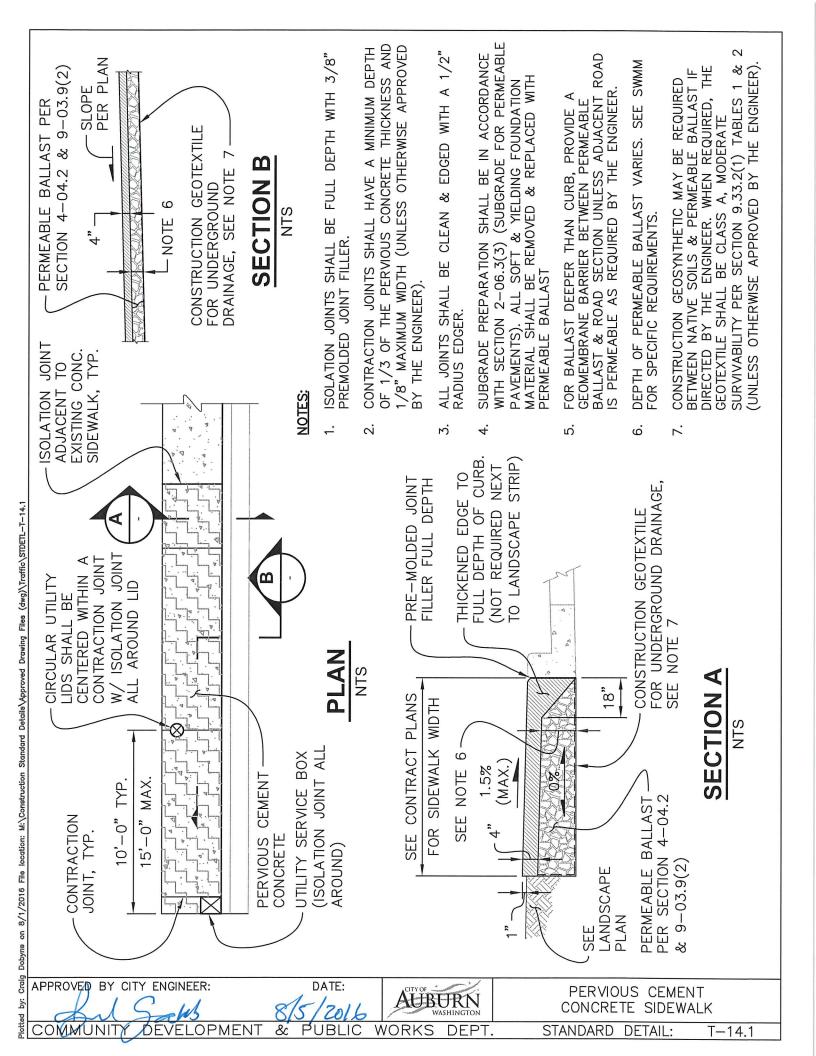
APPROVED BY CITY ENGINEER:

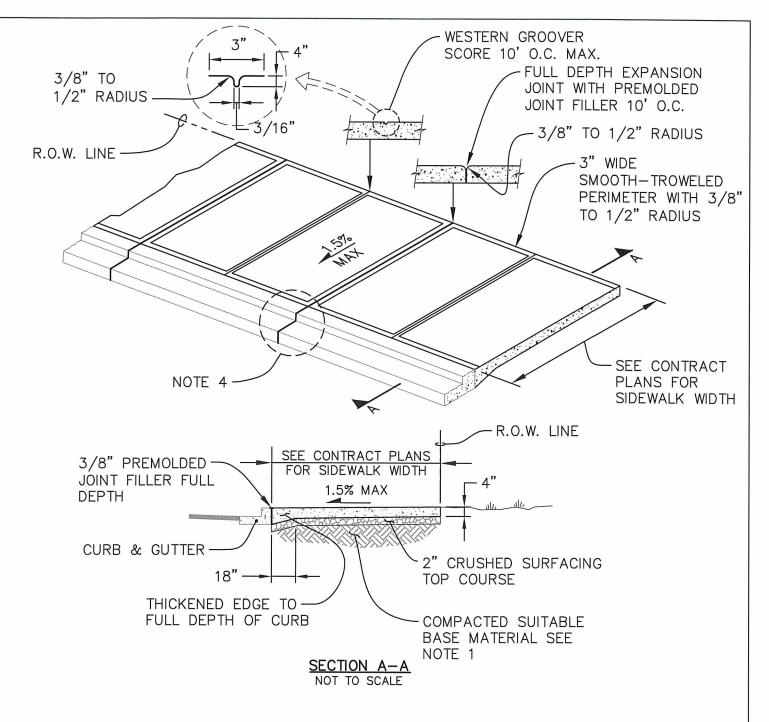
DATE:

2/20/2013 USASHINGTON

CEMENT CONCRETE SIDEWALK
WITH LANDSCAPE STRIP

COMMOUNITY DEVELOPMENT & PUBLIC WORKS DEPT. 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.
- 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.

APPROVED BY CITY ENGINEER:

DATE:

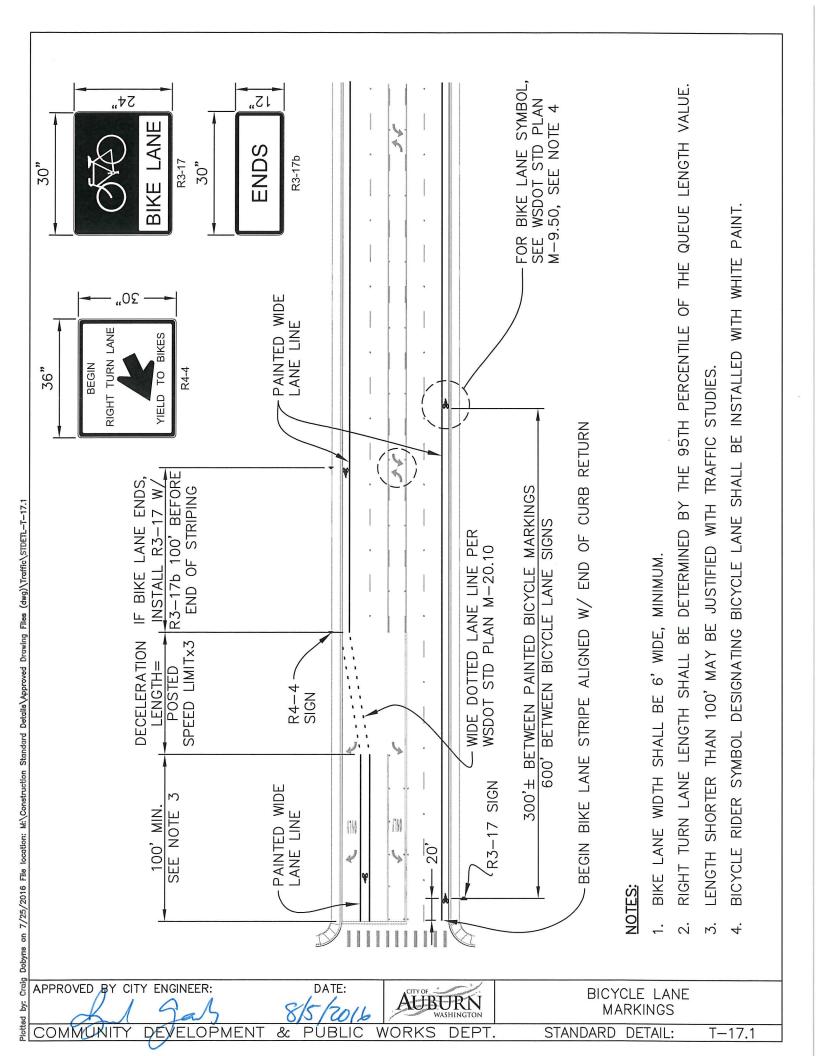
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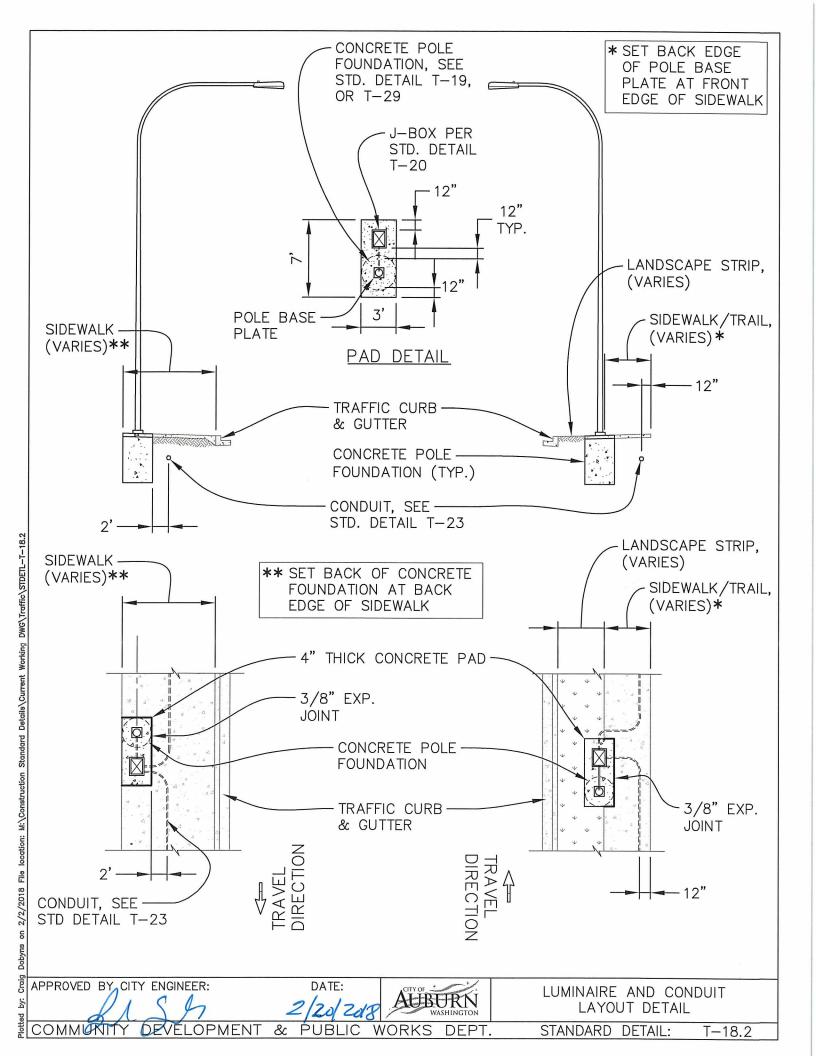
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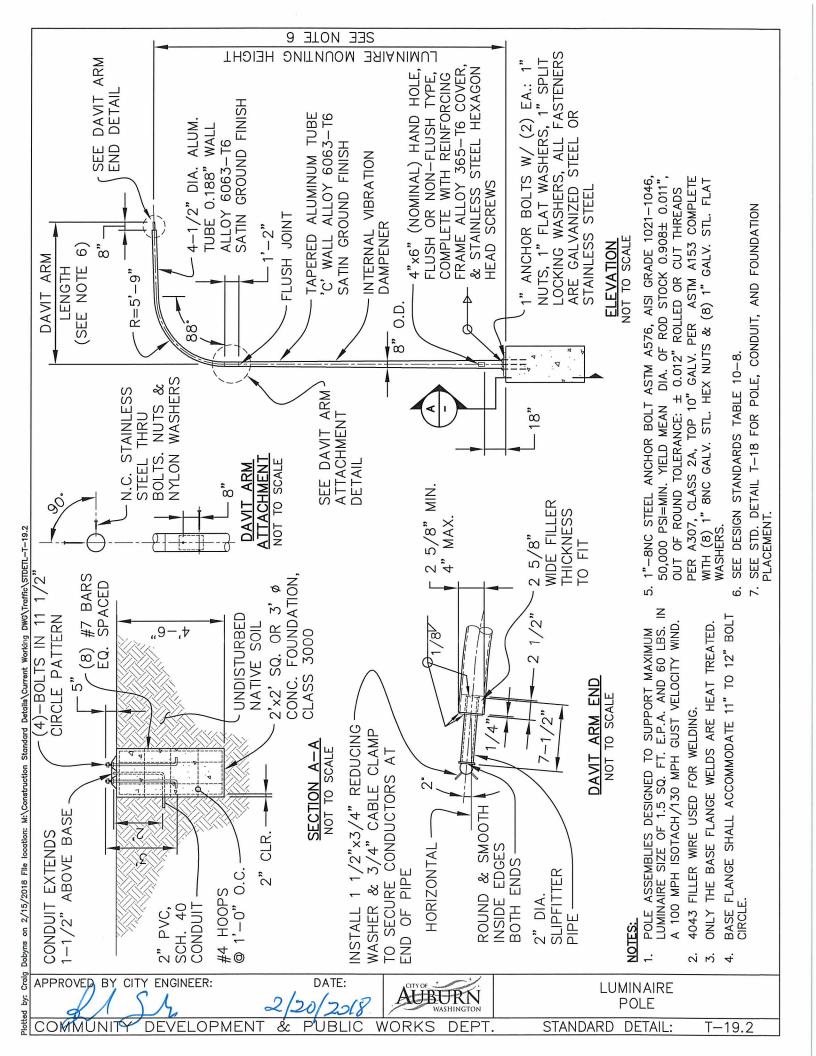
CEMENT CONCRETE SIDEWALK WITHOUT LANDSCAPE STRIP

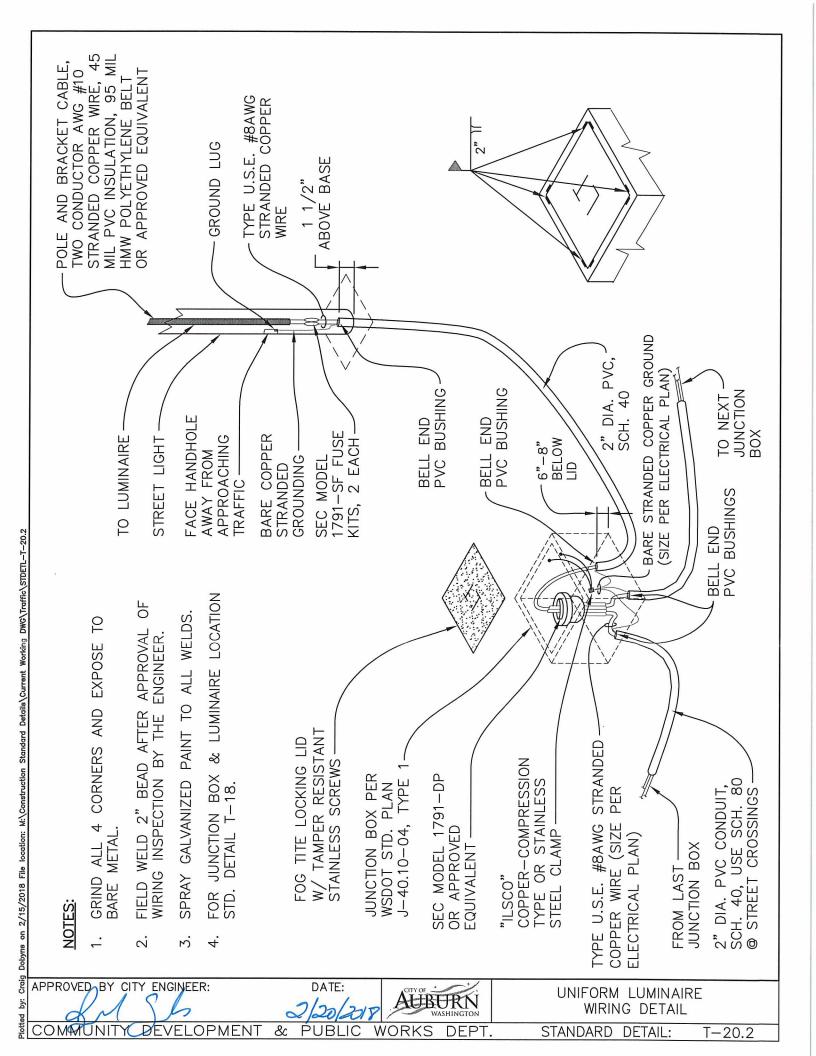
COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

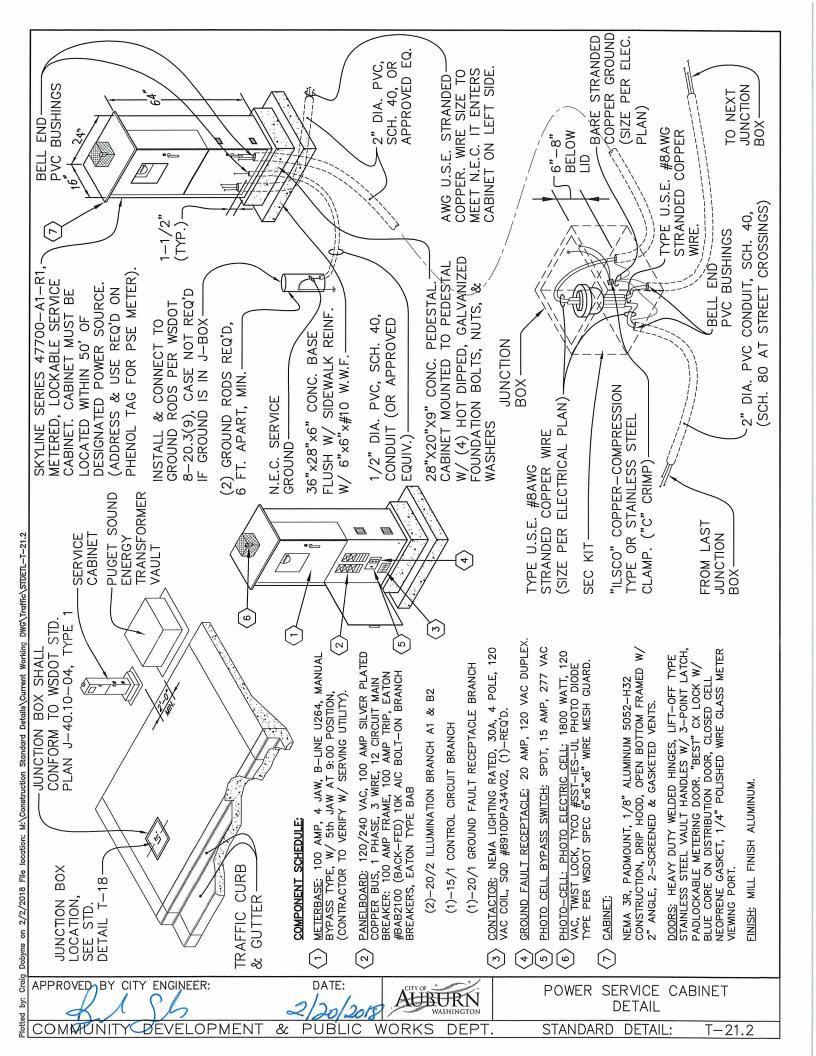
STANDARD DETAIL: T-15.1

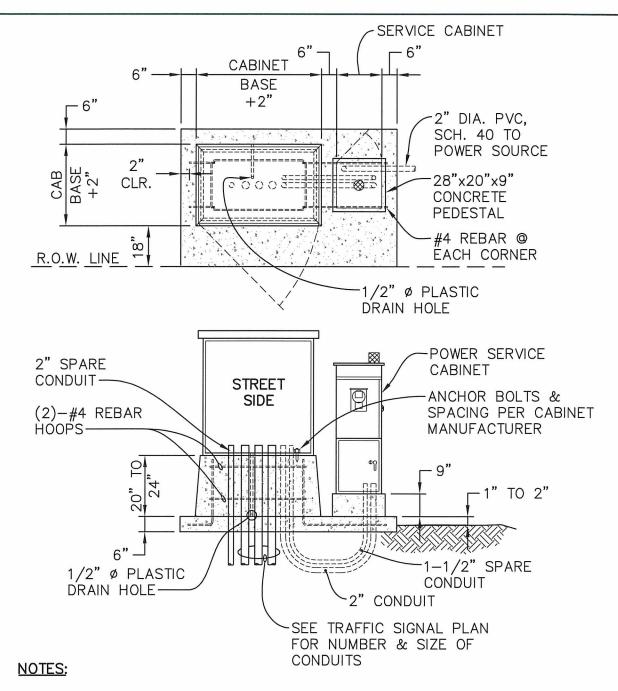












- 1. FOUNDATION SHALL BE CONSTRUCTED WITH CLASS 3000 CONCRETE WITH 3/4" CHAMFERED EDGE ON THE LOWER PAD.
- 2. CONDUITS SHALL BE EXTENDED NO MORE THAN 2" ABOVE CONCRETE SURFACE, ALIGNED, AND CENTERED ON CABINET.
- 3. CABINET POWER CONDUIT SHALL BE ON THE RIGHT SIDE WHEN FACING FRONT OF CABINET.
- 4. 2" DIA. SPARE CONDUIT SHALL BE INSTALLED AND RUN INTO THE JUNCTION BOX.
- 5. ENDS OF 1/2" DIA. DRAIN POLY TUBING SHALL BE CUT FLUSHED WITH CONCRETE SURFACE.
- 6. 1-1/2" DIA. SPARE CONDUIT SHALL BE INSTALLED AND RUN INTO SERVICE CABINET.

APPROVED BY CITY ENGINEER:

DATE:

SIGNAL CONTROLLER

& FOUNDATION DETAIL

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-22.1

- 1. PULL STRING SHALL BE INSTALLED IN ALL SPARE CONDUIT.
- 2. SEE STD. DETAIL T-18 FOR CONDUIT PLACEMENT.

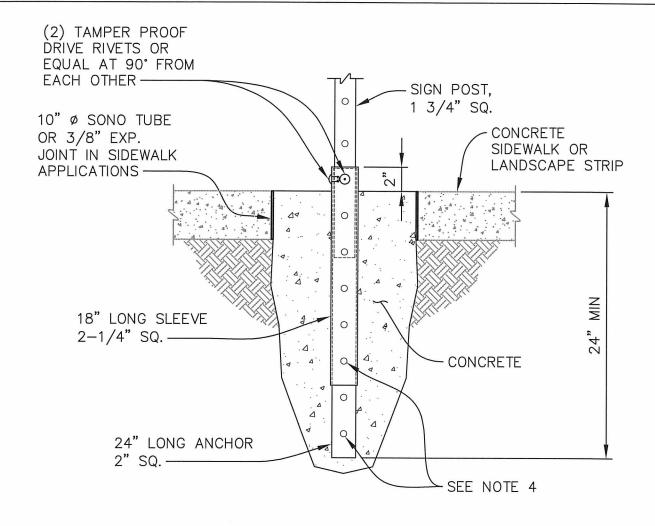
APPROVED BY CITY ENGINEER:

DATE: 2/20/2018

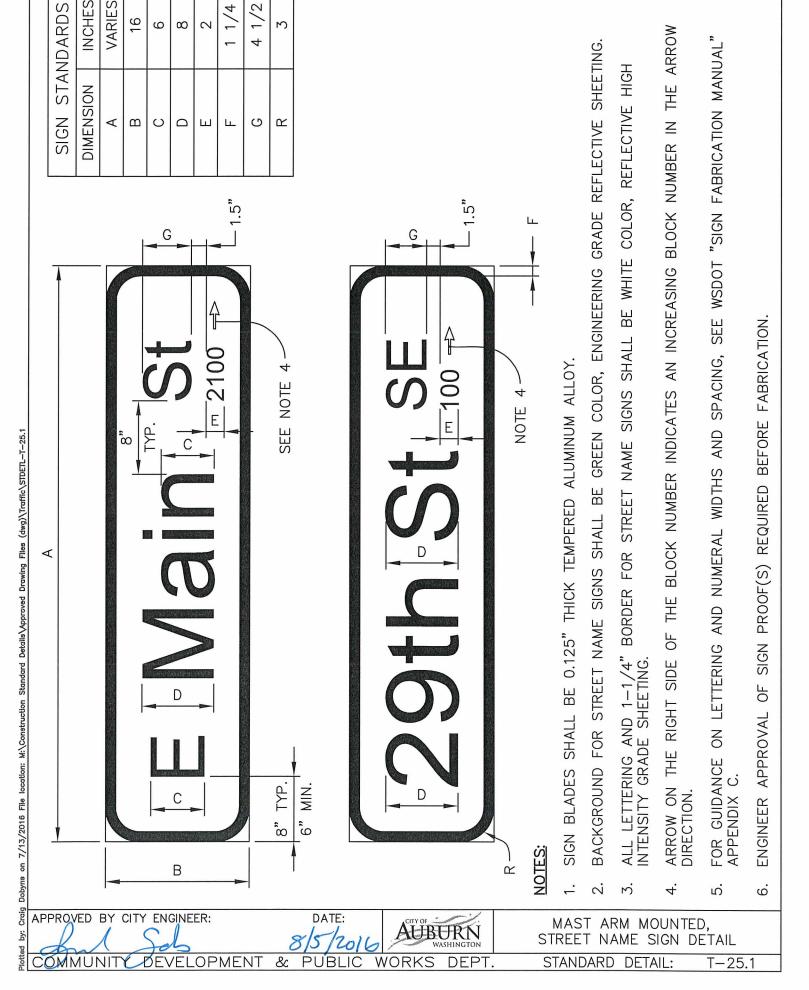


TELLECOMMUNICATION AND LUMINAIRE ELECTRICAL TRENCH

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT



- 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).
- 4. WRAP ANCHOR TUBING WITH TAPE BEFORE PLACING IN CONCRETE.
- 5. DEMONSTRATE SIGN POST IS REMOVABLE BEFORE RIVETING.

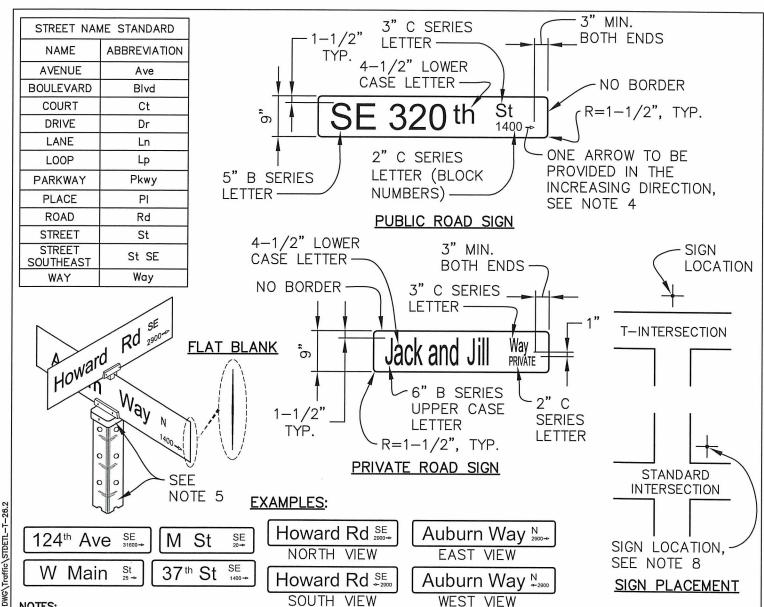


VARIES **INCHES**

16

9 ∞ 1 1/4

2



Details\Current

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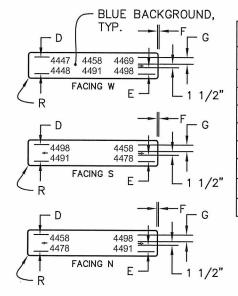
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1/10/2018

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- NAME PLATE SHALL BE 9" WIDE X VARIABLE LENGTH OF FLAT BLANK, 0.080 GAUGE ALUMINUM, TREATED WITH ALODINE 1200 CONVERSION COATING, ZUMAR OR APPROVED EQUIVALENT.
- BACKGROUND FOR PUBLIC ROAD STREET NAME SIGNS SHALL BE GREEN COLOR, ENGINEERING GRADE REFLECTIVE SHEETING.
- BACKGROUND FOR PRIVATE ROAD STREET NAME SIGNS SHALL BE BLUE COLOR, ENGINEERING GRADE REFLECTIVE SHEETING.
- ALL LETTERING FOR STREET NAME SIGNS SHALL BE WHITE COLOR, REFLECTIVE HIGH INTENSITY GRADE SHEETING.
- POST INSTALLATION SHALL CONFORM TO REQUIREMENTS SET BY STANDARD DETAIL T-24.
- HARDWARE SHALL BE ZUMAR STYLE 850 LONG OR APPROVED EQUIVALENT.
- MOUNTING HEIGHT SHALL BE 8'-0".
- WHEN AN INTERSECTION IS STOP SIGN CONTROLLED, THE STREET NAME SIGN SHALL BE PLACED ON THE SAME POST AND ABOVE THE STOP SIGN.
- ENGINEER APPROVAL OF SIGN PROOF(S) SHALL BE REQUIRED BEFORE FABRICATION.

PRIVATE TRACT SIGNS:



UBURN

DEPT

WORKS

PRIVATE TRACT SIGN STANDARDS		
DIMENSION	INCHES	
Α	VARIES	
В	16	
С	6	
D	8	
E	2	
F	1 1/4	
G	4 1/2	
R	3	

APPROVED BY CITY ENGINEER: DATE:

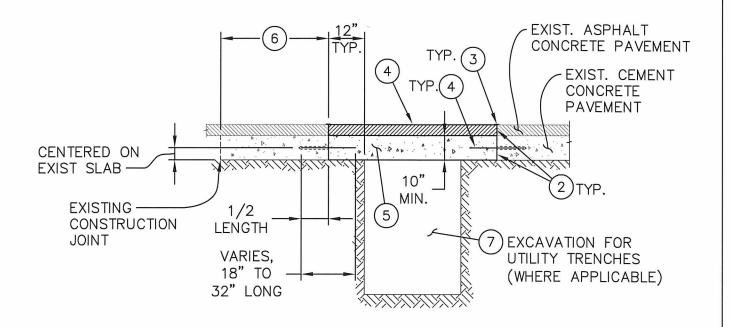
DEVELOPMENT

28

PUBLIC

POST MOUNTED, STREET NAME SIGN DETAIL

STANDARD DETAIL: T-26.2



- (1) FOR TRANSVERSE JOINTS CONSTRUCTION, THE DOWEL BARS SHALL BE 1 1/2" DIA. x 18" LONG AND INSTALLED AT 12" ON CENTER. FOR LONGITUDINAL JOINTS CONSTRUCTION, TIE BARS SHALL BE #5 x 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.
- (2) APPLY HOT POURED ELASTIC TYPE SEALANT TO ENTIRE EDGE AND FULL DEPTH OF THE JOINTS BEFORE PAVING.
- $\left(3\right)$ APPLY SURFACE SEAL WITH ASPHALT CEMENT AR-4000 AT MATCHLINES.
- 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.
- $\overline{7}$ BEDDING/BACKFILL SHALL BE PER STANDARD DETAIL T-01.

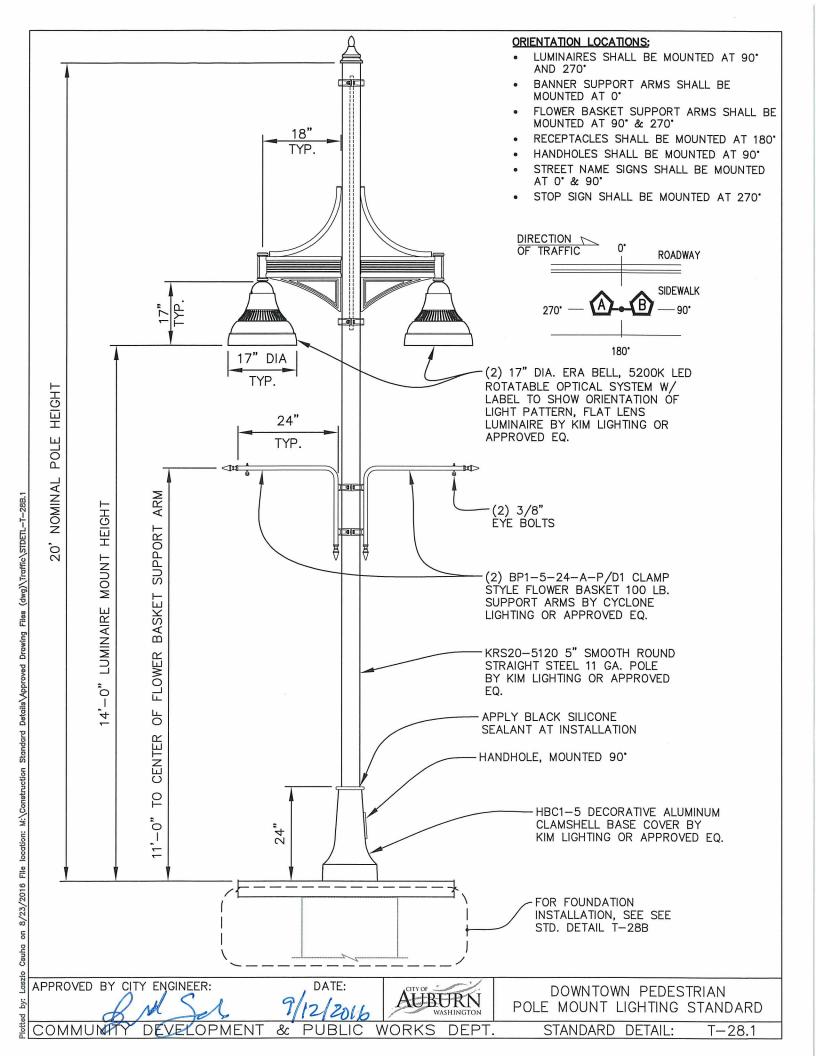
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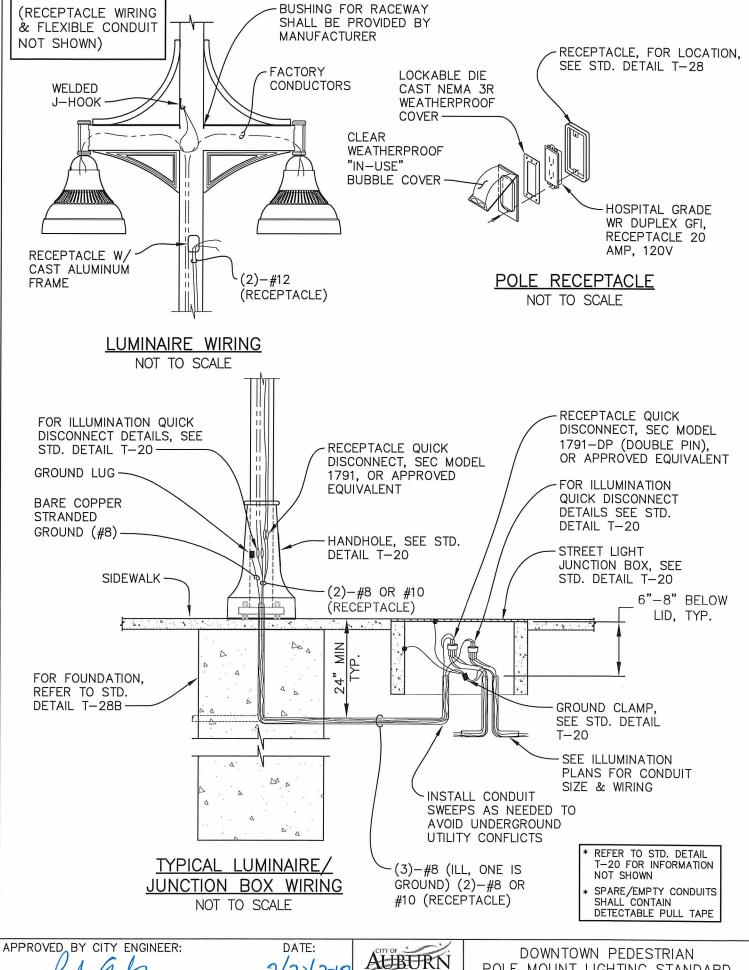
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SISSING CEMENT CONCRETE PANEL IN ROADWAY

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-27.1





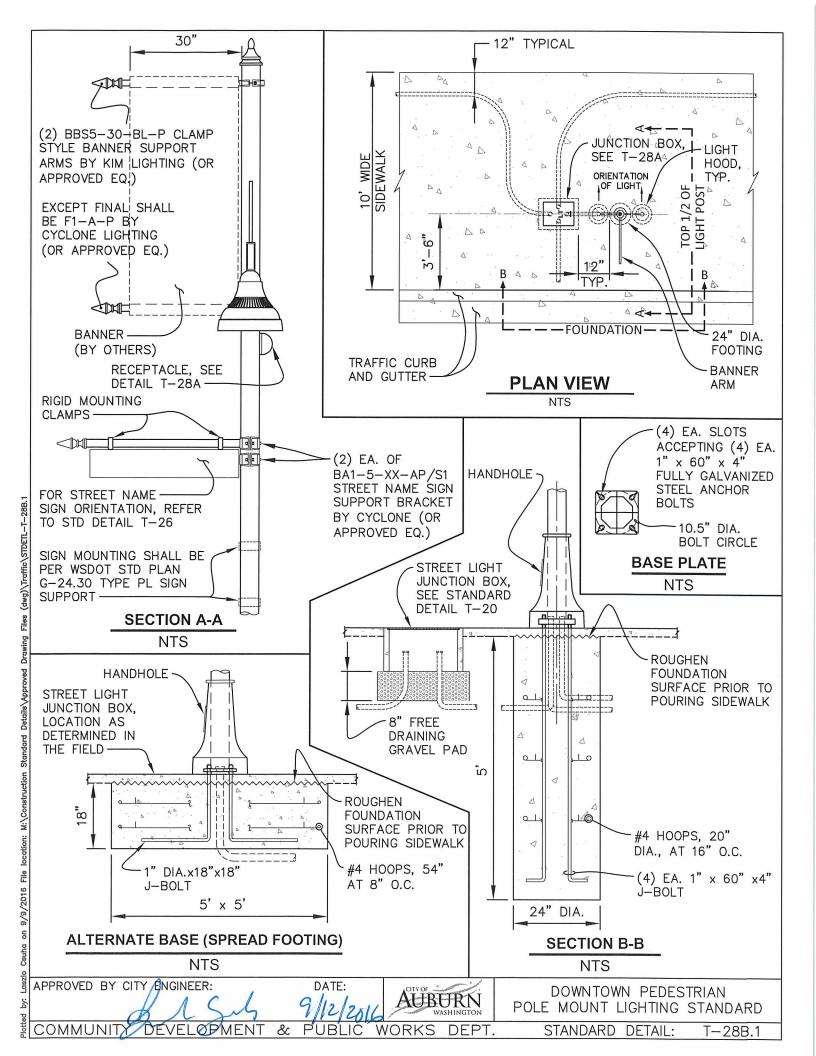
DEVELOPMENT

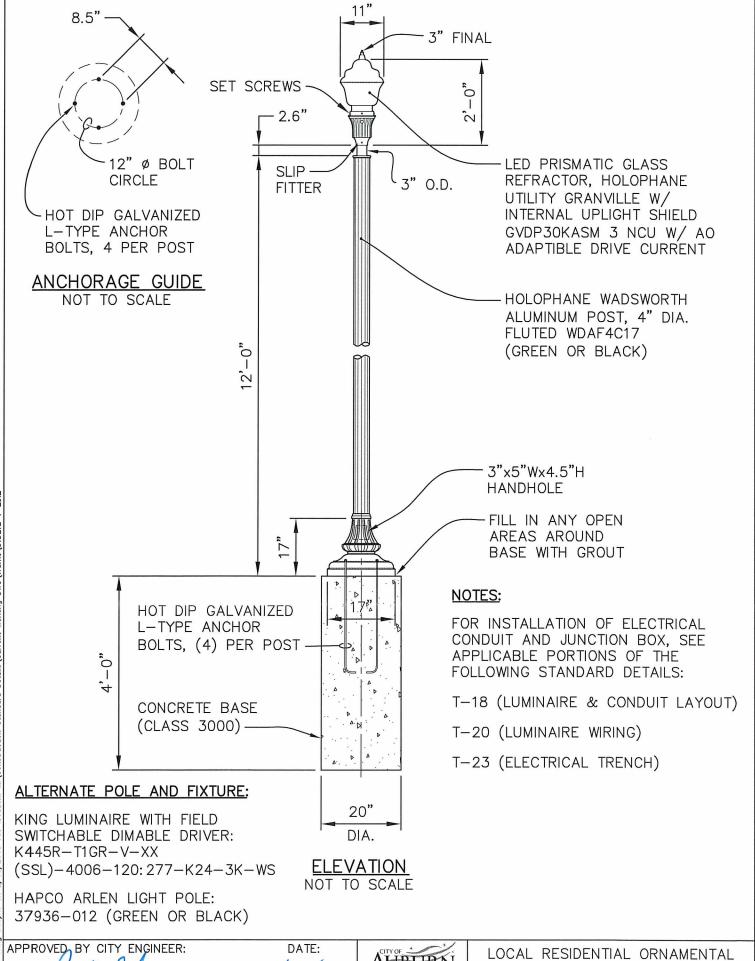
COMMUNITY

& PUBLIC



POLE MOUNT LIGHTING STANDARD





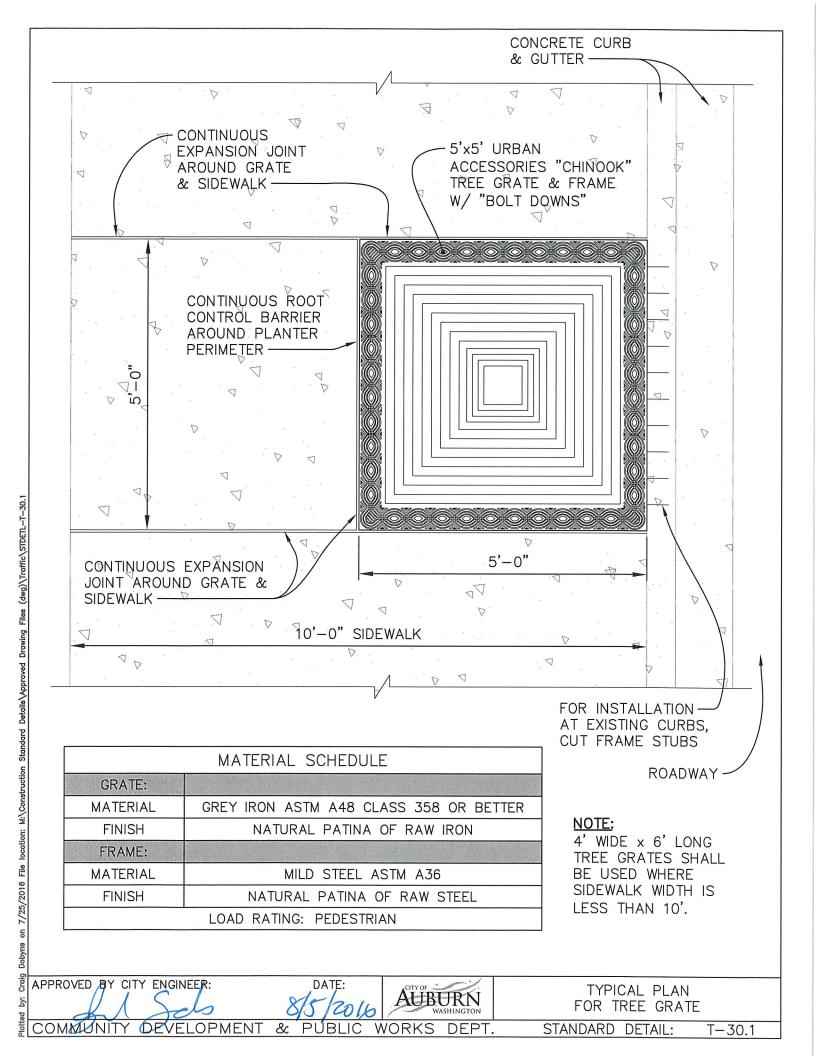
COMMUNITY DEVELOPMENT

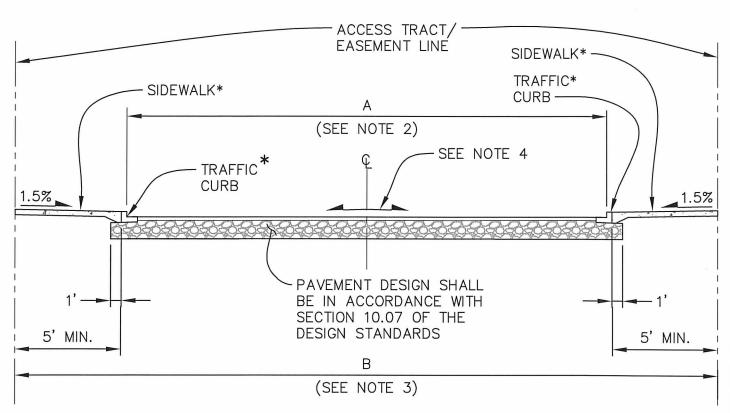
& PUBLIC



WORKS DEPT.

STREET LIGHTING STANDARD





SECTION A-A

NOTES:

- 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

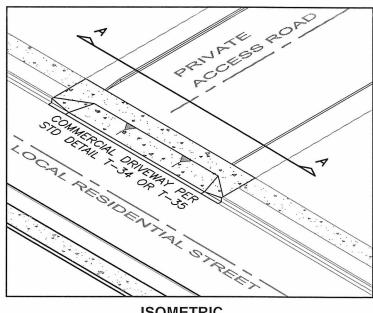
B = 25' - RESIDENTIAL

- 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.

Jaco Spreeding

APPROVED BY GITY ENGINEER FOR

*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.



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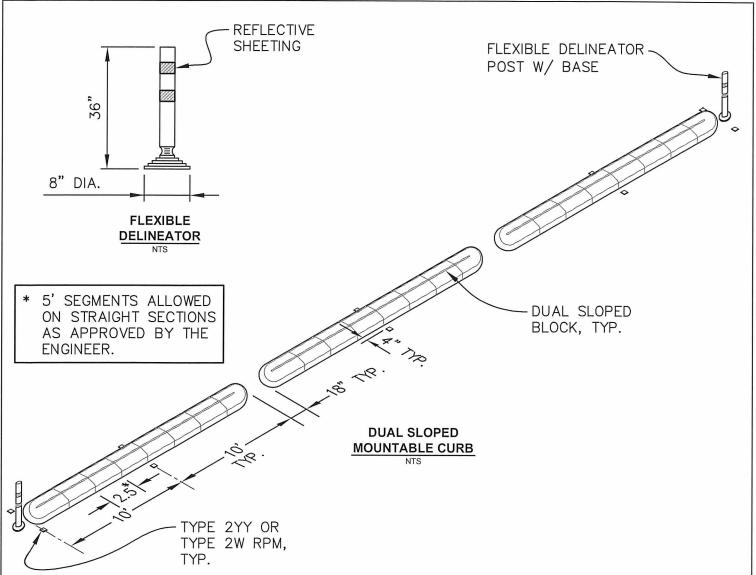
DATE:

AUBURN WASHINGTON PRIVATE ACCESS ROAD
/ SHARED DRIVEWAY

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL:

T - 31.3



- PRECAST CONCRETE DUAL FACED, SLOPED MOUNTABLE CURB SHALL BE PER WSDOT STANDARD PLAN F-10.64, 12" WIDE.
- CURB SHALL BE INSTALLED USING EPOXY ADHESIVE PER WSDOT STANDARD SPECIFICATION 9-26.2. EPOXY SHALL BE APPLIED AT A RATE OF ONE GALLON PER SEVEN FEET OF CURBING.
- 3. CURB SHALL BE INSTALLED IN 20' SEGMENTS, WITH 18" OPENING BETWEEN ENDS, OR MODIFIED TO FIT FIELD DIMENSIONS AS APPROVED BY THE ENGINEER.
- 4. CURB AND DELINEATOR SHALL BE THE SAME COLOR AS THE CHANNELIZATION STRIPE.
- 5. FLEXIBLE DELINEATOR POSTS SHALL BE MOUNTED ON BASE WITH SPRING BACK MECHANISM.
- 6. DELINEATOR BASE SHALL BE AFFIXED TO PAVEMENT WITH FLEXIBLE BITUMINOUS PAVEMENT MARKER ADHESIVE PER WSDOT STANDARD SPECIFICATION 9-02.1(8).
- 7. RPM'S SHALL BE PLACED AT EACH APPROACH END OF THE CURBING AND CENTERED ON EACH SECTION AS SHOWN. THEY SHALL BE THE SAME COLOR AS THE CHANNELIZATION STRIPE.
- 8. THIS DETAIL IS USED TO RETRO—FIT EXISTING STREETS. NEW CONSTRUCTION SHALL REQUIRE CAST—IN—PLACE CURBS.

APPROVED BY CITY ENGINEER:

DATE:

PRECAST CONCRETE DUAL FACED SLOPED MOUNTABLE CURB RETROFIT

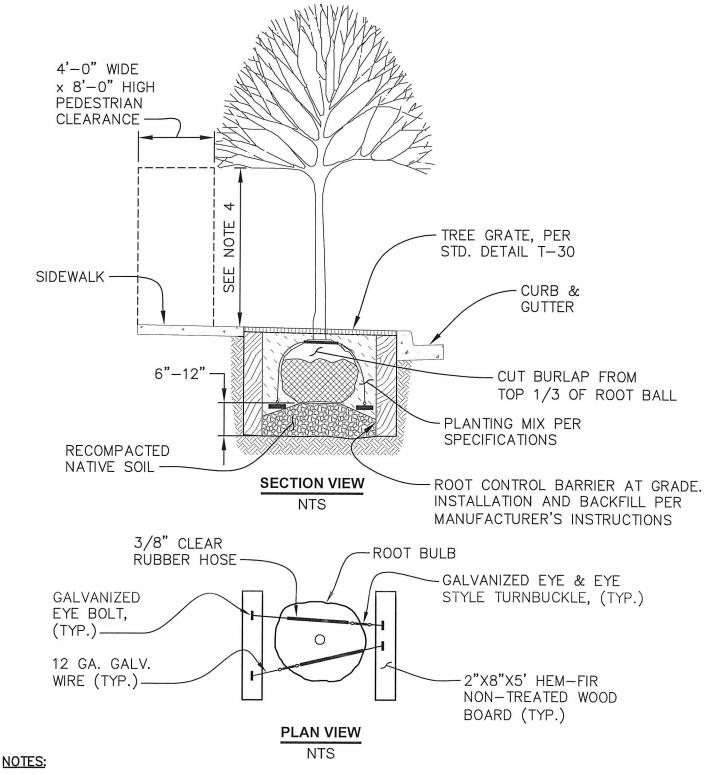
COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: T-32.2

Standard Details\Current Working DWG\Traffic\STDETL-T-32.2

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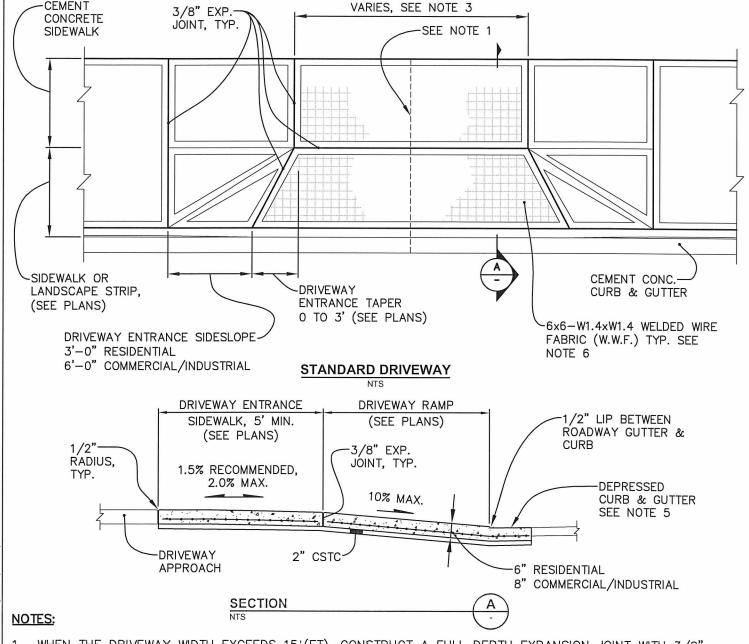
2/2/2018

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- PLANT TREES 1" HIGHER THAN GROWN IN NURSERY.
- TREE PIT SHALL NOT BE LESS THAN 2 TIMES THE ROOT BALL DIAMETER.
- STREET TREES SHALL NOT BE PLACED WITHIN SIGHT DISTANCE TRIANGLE.
- AT TIME OF PLANTING, MAINTAIN LOWER BRANCHES OF TREE AT 5' MIN. CLEARANCE ABOVE THE SIDEWALK.
- 5. STREET TREES SHALL BE SELECTED FROM THE CITY APPROVED LIST OF STREET TREES.

APPROVED BY CITY ENGINEER: DATE: STREET TREE UNDERGROUND AUBURN WASHINGTON STABILIZATION COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: T - 33.1



- 1. WHEN THE DRIVEWAY WIDTH EXCEEDS 15'(FT), CONSTRUCT A FULL DEPTH EXPANSION JOINT WITH 3/8" JOINT FILLER ALONG THE DRIVEWAY CENTERLINE. SEE WSDOT STANDARD PLAN F-30.10. CONSTRUCT EXPANSION JOINTS PARALLEL WITH THE CENTERLINE AS REQUIRED AT 15'(FT) MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'(FT).
- 2. RESIDENTIAL DRIVEWAY SERVING 2 OR MORE LIVING UNITS AND/OR THAT CONNECT TO AN ACCESS ROAD SHALL BE CONSTRUCTED AS A COMMERCIAL/INDUSTRIAL DRIVEWAY.
- 3. SEE STANDARD DETAIL T-04 FOR DRIVEWAY WIDTHS AND LOCATIONS.
- 4. CONCRETE SHALL BE CLASS 4000 WITH 5% AIR ENTRAINMENT WITH A BROOM FINISH PARALLEL TO CURB LINE.
- 5. DEPRESSED CURB FOR HEAVY COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL BE POURED INTEGRAL/MONOLITHIC TO DRIVEWAY.
- 6. WELDED WIRE FABRIC (W.W.F.) SHALL BE PLACED 3" FROM BOTTOM, AND 2" FROM ALL OTHER LIMITS. WELDED WIRE FABRIC (W.W.F.) NOT REQUIRED FOR RESIDENTIAL DRIVEWAYS.
- WHEN DRIVEWAY OPENING IS TO BE CONSTRUCTED WHERE CURB EXISTS, THE ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT ON EACH SIDE OF THE OPENING AND REPLACED.

APPROVED BY CITY ENGINEER:

DATE:

2/23/2000

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DRIVEWAY —

OFFSET APRON

STANDARD DETAIL: T—34.1

- I. WHEN THE DRIVEWAY WIDTH EXCEEDS 15'(FT), CONSTRUCT A FULL DEPTH EXPANSION JOINT WITH 3/8" JOINT FILLER ALONG THE DRIVEWAY CENTERLINE. SEE WSDOT STANDARD PLAN F-30.10. CONSTRUCT EXPANSION JOINTS PARALLEL WITH THE CENTERLINE AS REQUIRED AT 15'(FT) MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'(FT).
- 2. RESIDENTIAL DRIVEWAY SERVING 2 OR MORE LIVING UNITS AND/OR THAT CONNECT TO AN ACCESS ROAD SHALL BE CONSTRUCTED AS A COMMERCIAL/INDUSTRIAL DRIVEWAY.
- 3. SEE STANDARD DETAIL T-04 FOR DRIVEWAY WIDTHS AND LOCATIONS.

2/23/2018

- 4. CONCRETE SHALL BE CLASS 4000 WITH 5% AIR ENTRAINMENT WITH A BROOM FINISH PARALLEL TO CURB LINE.
- 5. DEPRESSED CURB FOR HEAVY COMMERCIAL/INDUSTRIAL DRIVEWAYS SHALL BE POURED INTEGRAL/MONOLITHIC TO DRIVEWAY.
- 6. WELDED WIRE FABRIC (W.W.F.) SHALL BE PLACED 3" FROM BOTTOM, AND 2" FROM ALL OTHER LIMITS. WELDED WIRE FABRIC (W.W.F.) NOT REQUIRED FOR RESIDENTIAL DRIVEWAYS.
- 7. WHEN DRIVEWAY OPENING IS TO BE CONSTRUCTED WHERE CURB EXISTS, THE ENTIRE CURB AND GUTTER SECTION SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT ON EACH SIDE OF THE OPENING AND REPLACED.

APPROVED BY CITY ENGINEER:

DATE:

2/23/2019 UNITY DEVELOPMENT & PUBLIC WORKS DEPT.

ALTERNATE DRIVEWAY INLINE (DROP) APRON

STANDARD DETAIL: T-35.1

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 R3HK P7 SH (208 Watts)	
MINOR ARTERIAL	TYPE B	GCM2-40H-MV-NW-2R -GY-950 S WL (121 Watts)		
MINOR ARTERIAL W/ CENTER TURN LANE OR MEDIAN	TYPE C	GCL1-60G-MV-NW-2RG Y-700 S WL (137 Watts)	ATB2 60BLEDE85 MVOLT R3 HK P7 SH (129 Watts)	
NON-RESIDENTIAL COLLECTOR	TYPE B	GCM2-40H-MV-NW-2R -GY-950 S WL (121 Watts)		
RESIDENTIAL COLLECTOR	TYPE D	GCJ2-20H-MV-NW-2R -GY-1A S WL (68 Watts)		
RESIDENTIAL COLLECTOR WITH CENTER TURN LANE OR MEDIAN	TYPE E	GCM2-30H-MV-NW-2R -GY-700 S WL (69 Watts)		
LOCAL NON-RESIDENTIAL	TYPE D	GCJ2-20H-MV-NW-2R -GY-1A S WL (68 Watts)		
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)		

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

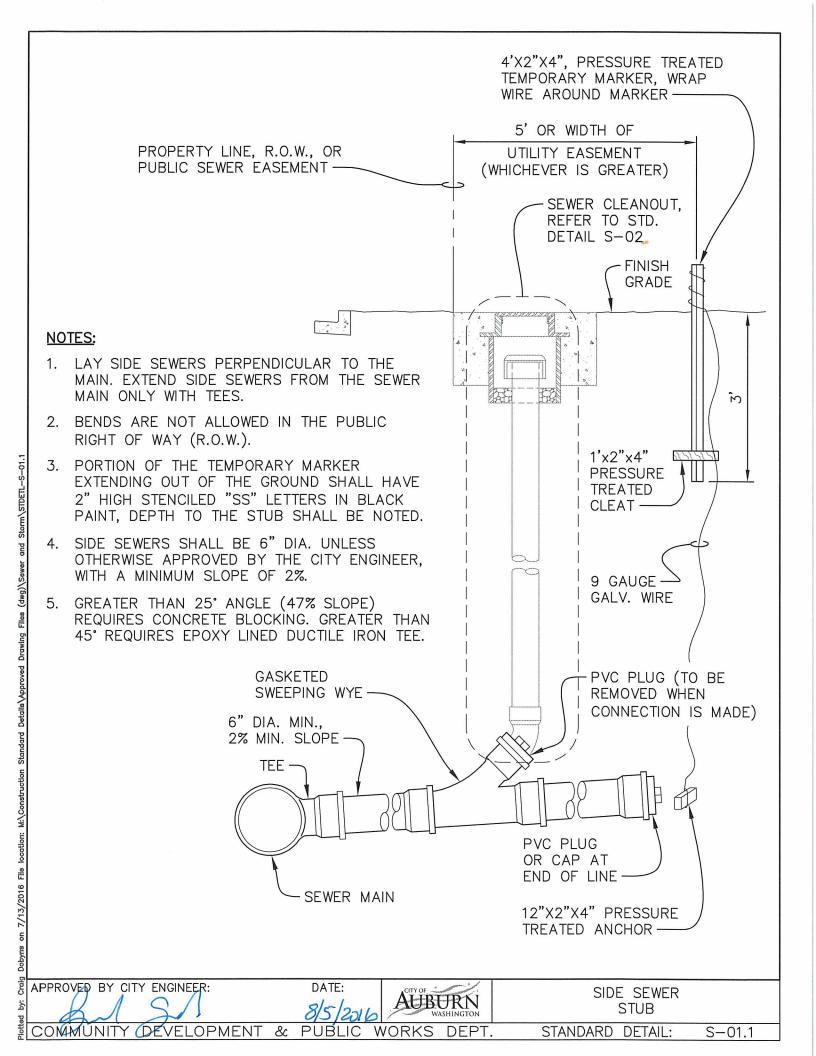
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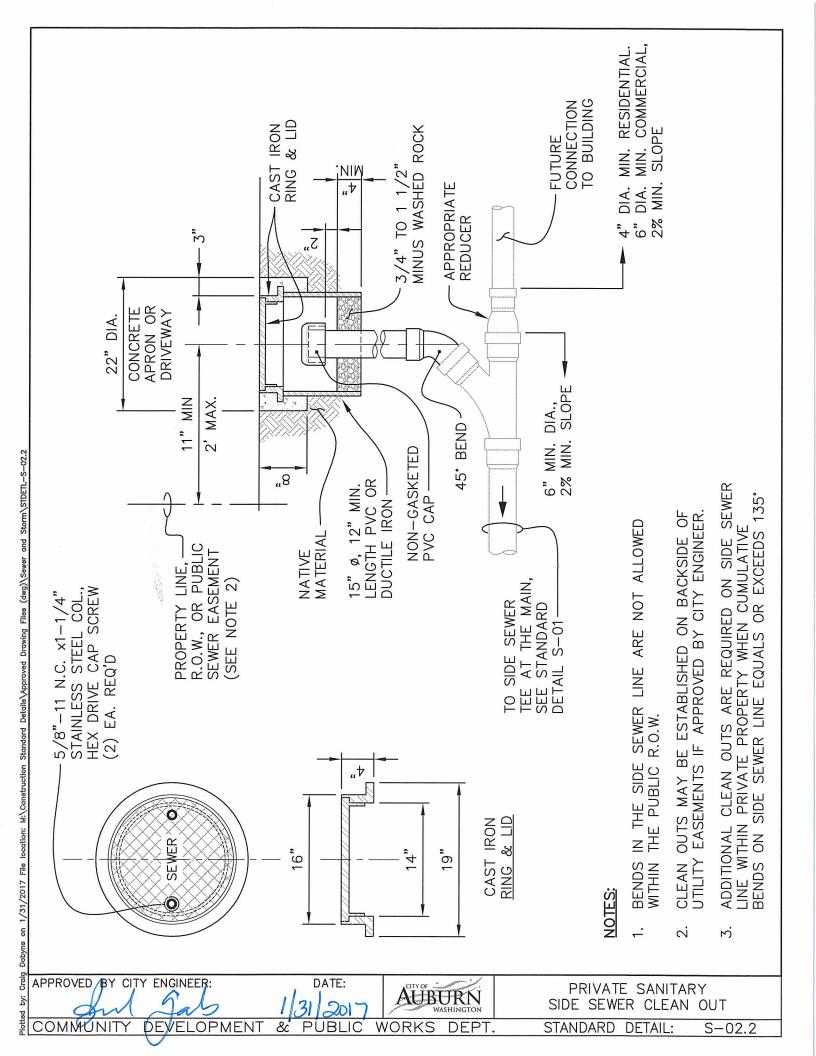
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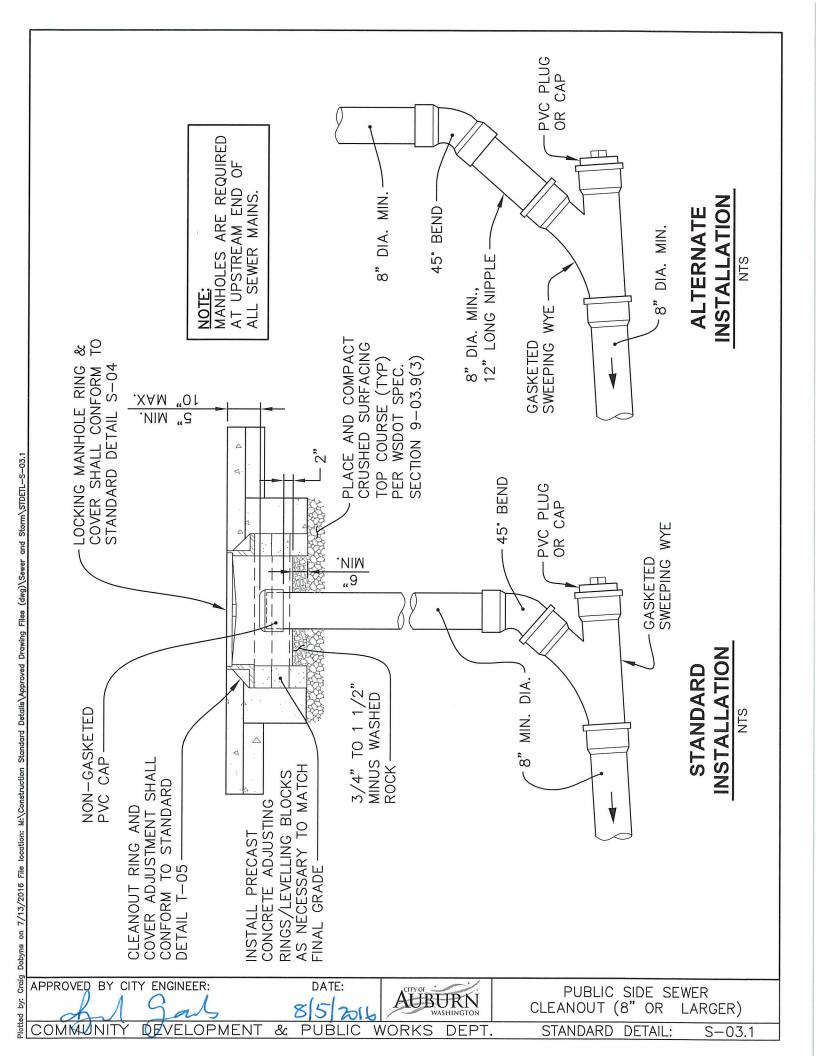
STREET LIGHTING
LAMP SCHEDULE

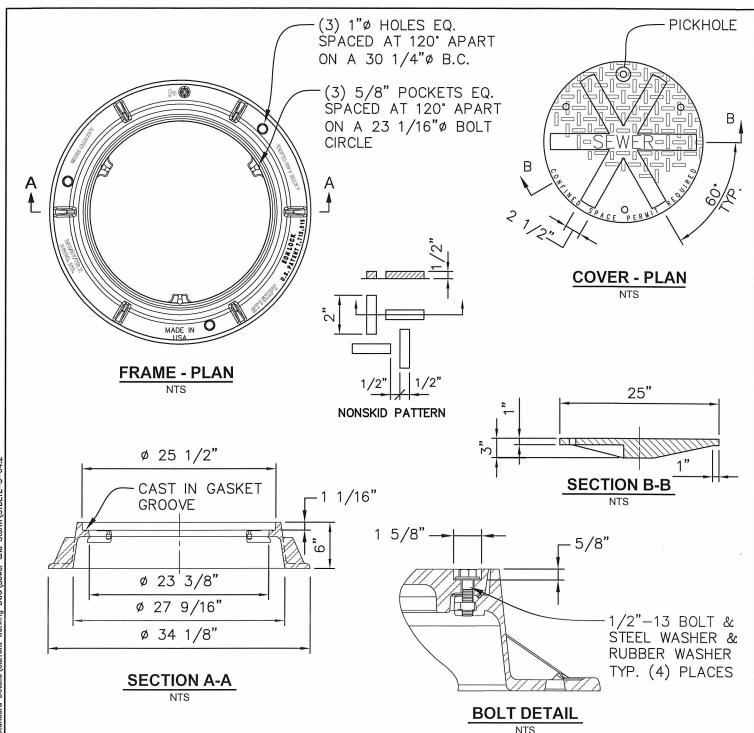
COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: T-37.1









- 1. COVERS SHALL HAVE THEIR USE CAST IN 2" RAISED LETTERS: 'SEWER' FOR SANITARY SEWERS, 'DRAIN' FOR STORM SEWERS AND 'WATER' FOR WATER CONVEYANCE. THE WORDS 'CONFINED SPACE PERMIT REQUIRED' SHALL BE CAST IN 1" LETTERS AS SHOWN.
- 2. GRAY OR DUCTILE IRON FRAME AND DUCTILE IRON COVER WITH MINIMUM WEIGHTS AS FOLLOWS:

FRAME = 210 LBS.

COVER = 150 LBS.

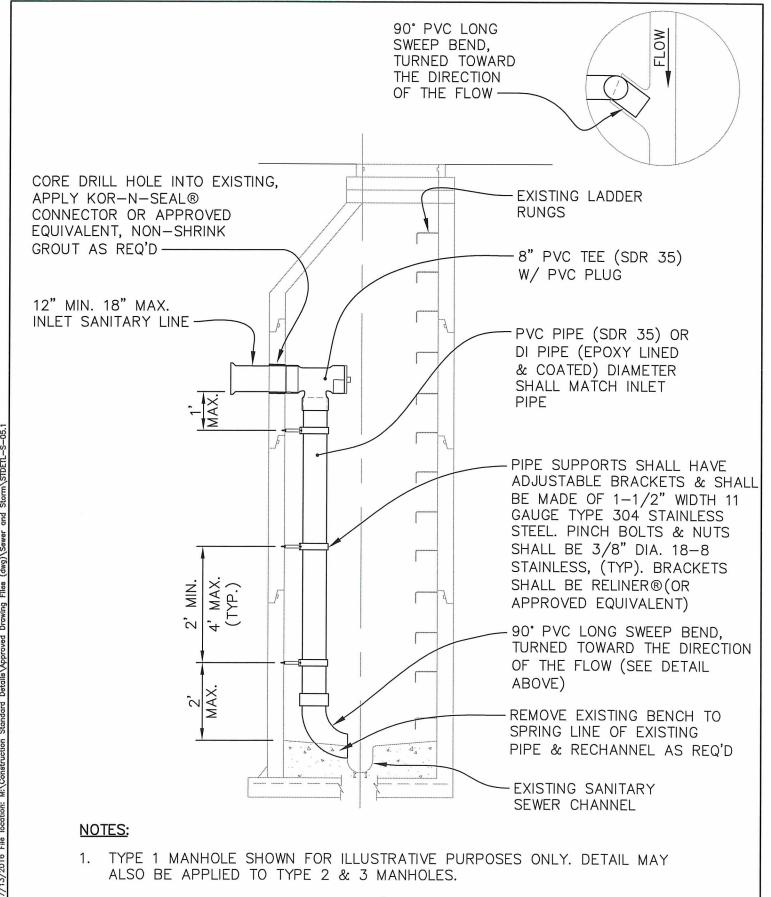
3. PROVIDE SLIP RESISTANT COATING IN PAVED AREAS.

APPROVED BY CITY ENGINEER:

DATE:

24" DIA. MANHOLE
FRAME AND COVER

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: S-04.2

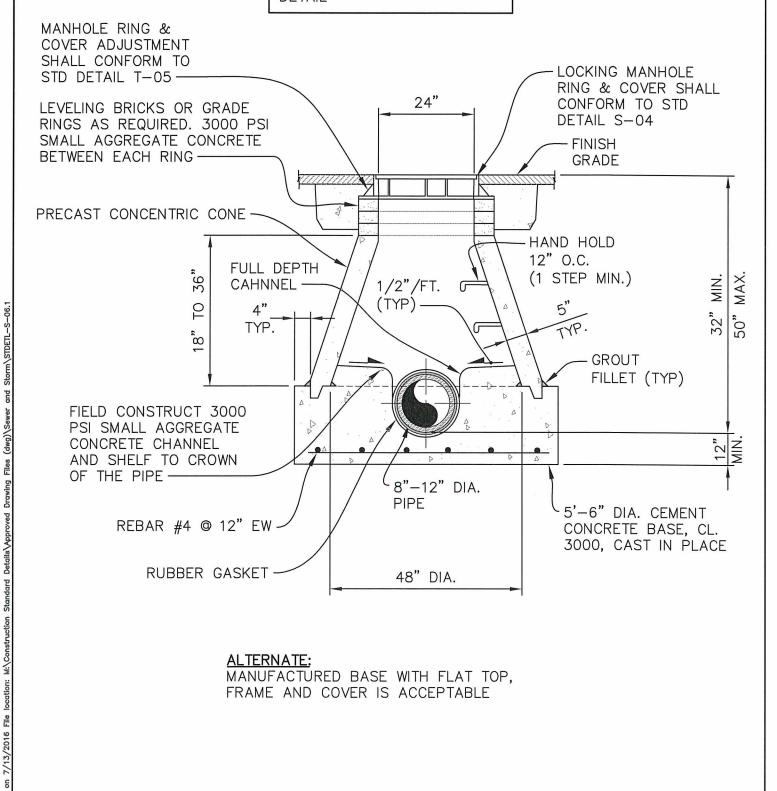


2. DROP CONNECTIONS TO EXISTING 48" OR LARGER MANHOLES ONLY WITH ENGINEER APPROVAL.

APPROVED BY CITY ENGINEER: DATE: AUBURN WASHINGTON RETROFIT EXISTING MANHOLE WITH INSIDE DROP

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: S-05.1

CITY ENGINEER APPROVAL IS REQUIRED BEFORE USING THIS DETAIL



ALTERNATE: MANUFACTURED BASE WITH FLAT TOP, FRAME AND COVER IS ACCEPTABLE

APPROVED BY CITY ENGINEER:

DATE: 8/5/2016



EXTRA SHALLOW MANHOLE DETAIL

COMMUNITY DEVELOPMENT PUBLIC WORKS DEPT. &

STANDARD DETAIL:

S - 06.1

APPROVED BY CITY ENGINEER:

DATE:

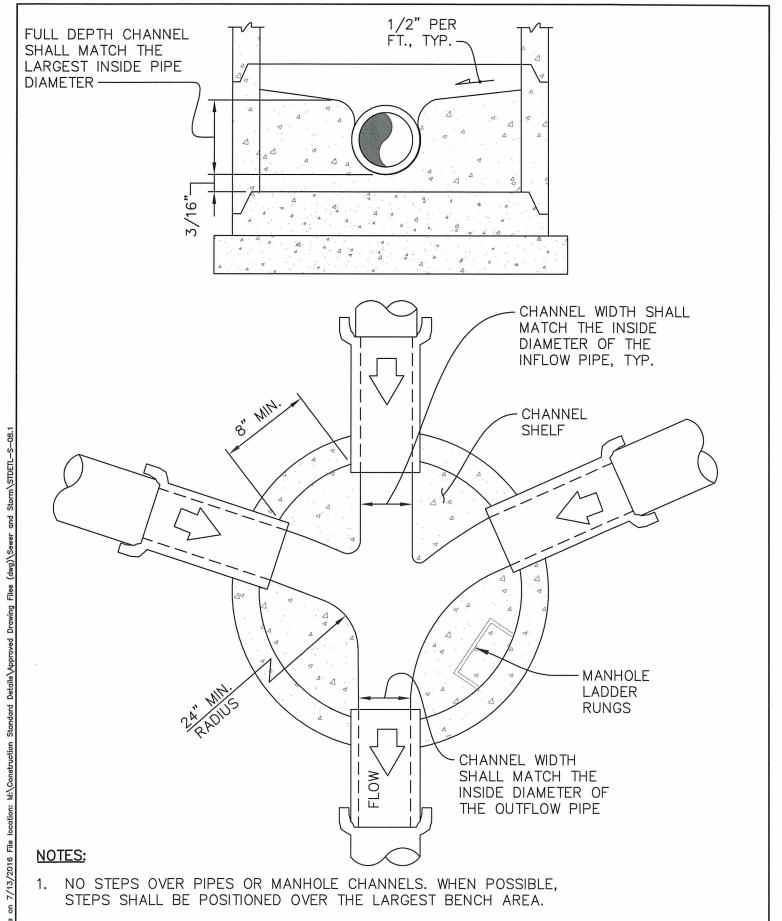


MANHOLE AT END OF SANITARY SEWER LINE

S - 07.2

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL:



2. FAST SETTING CONCRETE SHALL NOT BE USED.

APPROVED BY CITY ENGINEER:

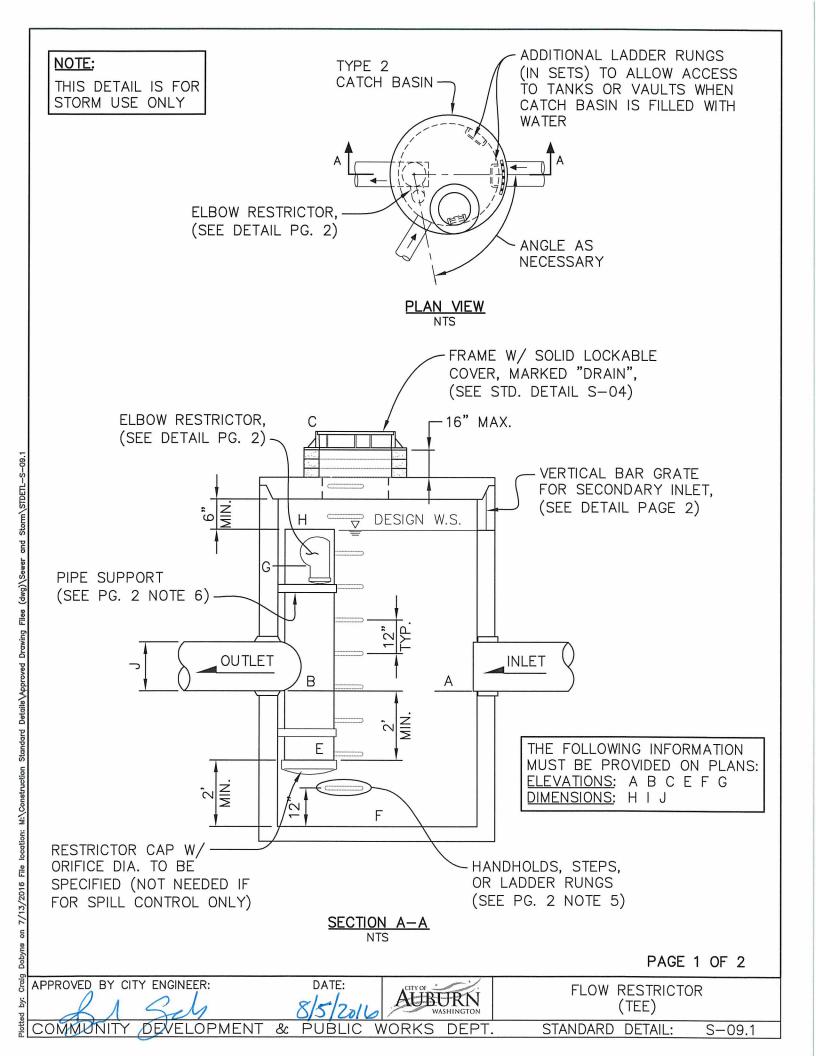
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SIDENT COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

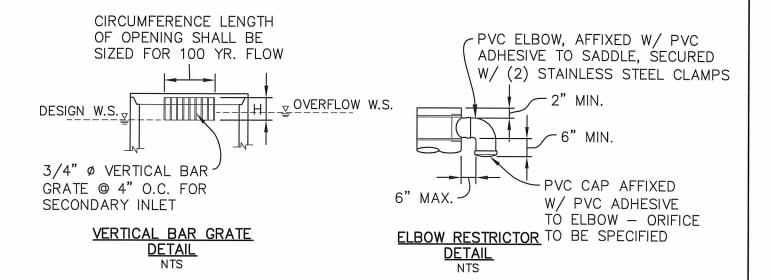
DATE:

MANHOLE CHANNEL CONSTRUCTION

STANDARD DETAIL: S-08.1



THIS DETAIL IS FOR STORM USE ONLY



NOTES:

- 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"

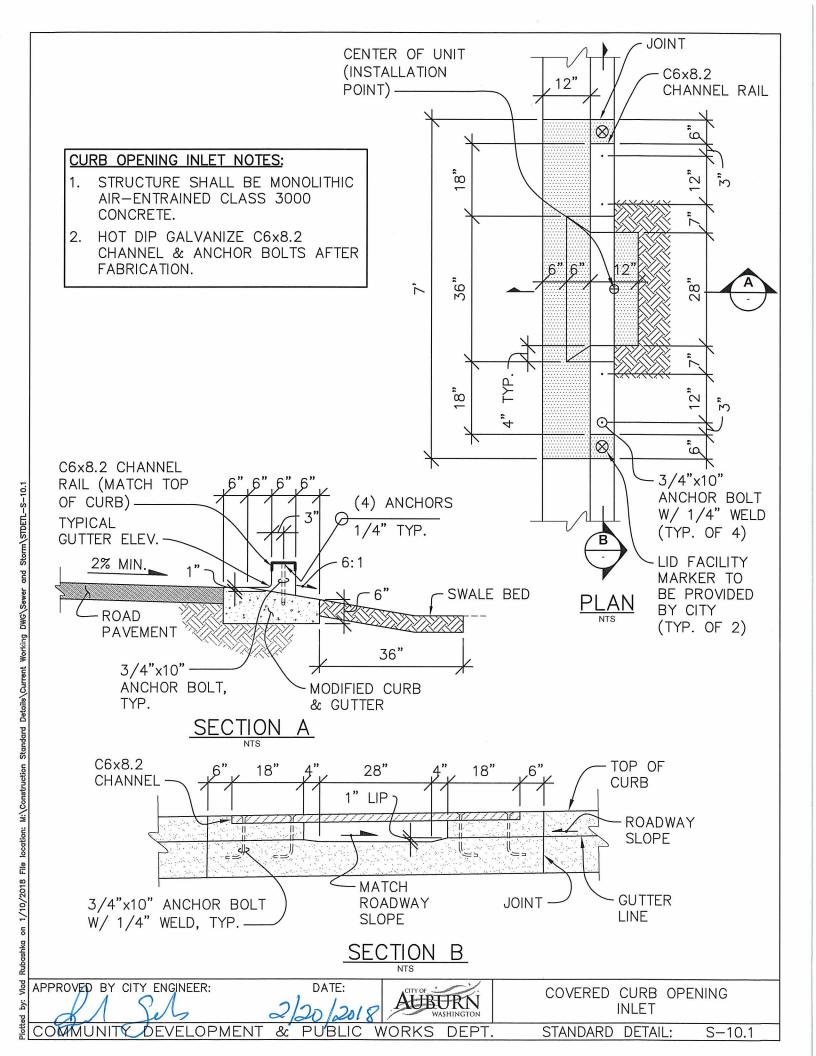
PAGE 2 OF 2

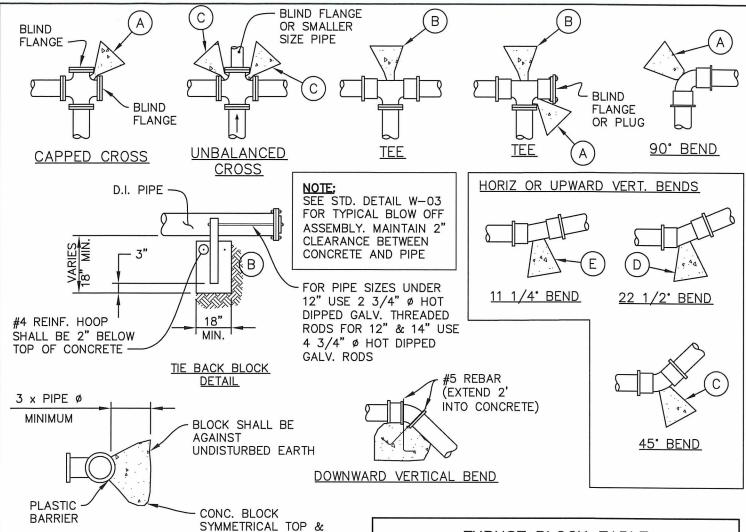
APPROVED BY CITY ENGINEER:

DATE:

STANDARD DETAIL: S-09a.1

on 7/13/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\Sewer and Storm\STDETL-S-09a.1





 BEARING AREA OF CONC. THRUST BLOCK IS BASED ON 200 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 2000 PSF.

ВОТТОМ

- AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES, AND SOIL CONDITIONS.
- CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/4 SQUARE FOOT BEARING AGAINST THE FITTING.
- 4. THE BLOCK SHALL BEAR AGAINST THE FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP AND DISMANTLING OF JOINT.
- 5. THE CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
- 6. USE 2" THICK STYROFOAM TO FORM THE CONCRETE BLOCKING. PLASTIC SHALL BE INSTALLED BETWEEN ALL CONCRETE BLOCKING AND FITTINGS.
- 7. RESTRAINED JOINTS ARE REQUIRED WHERE BEARING SOILS OR FILL MATERIAL ARE DETERMINED BY THE ENGINEER TO BE UNSUITABLE TO PROVIDE ADEQUATE BEARING LOAD, OR THIS SOIL HAS BEEN DISTURBED.

	THR	UST	BLOCK	(TA	BLF	
MIN.	BEARING	5 7 7				SOIL

1							
	PIPE SIZE	A SQ. FT.	B SQ. FT.	C SQ. FT.	D SQ. FT.	E SQ. FT.	
	4"	3	3	2	2	2	
	6"	4	3	2	2	2	
	8"	7	5	4	2	2	
	10"	11	8	6	3	2	
	12"	16	11	9	5	3	
	14"	22	15	12	6	3	
	16"	29	20	16	8	4	
	18"	36	25	20	10	5	
	20"	45	32	24	13	6	
	22"	54	38	29	15	8	
	24"	64	45	35	18	9	
	28"	87	62	48	24	12	
	30"	101	71	55	28	14	
	36"	145	102	78	40	20	
	42"	197	139	107	55	27	
	48"	257	181	140	71	36	

APPROVED BY CITY ENGINEER:

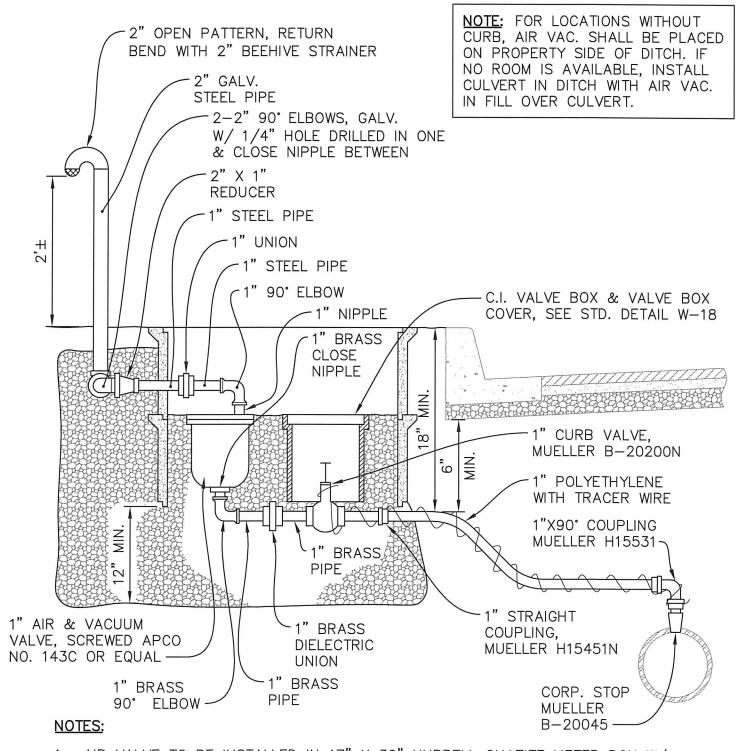
ON PROVED BY CITY ENGINEER:

WATER MAIN BLOCKING

BLOCKING

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-01.1

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- 1. AIR VALVE TO BE INSTALLED IN 17" X 30" HUBBELL QUAZITE METER BOX W/DUCTILE COVER, EAST JORDAN IRON WORKS OR APPROVED EQUIVALENT.
- 2. BED WITH 3/4"-1 1/2" WASHED ROCK, PASSING -1/2" AND RETAINED ON 1/4" MESH.
- 3. POLYETHYLENE PIPE SHALL BE AS SPECIFIED IN SECTION 9-30.6(3) OF THE STANDARD SPECIFICATION.
- 4. DIELECTRIC UNIONS ARE REQUIRED FOR JOINING DISSIMILAR MATERIAL TYPES.
- 5. MAINTAIN POSITIVE GRADE FROM MAIN TO VALVE.

APPROVED BY CITY ENGINEER:

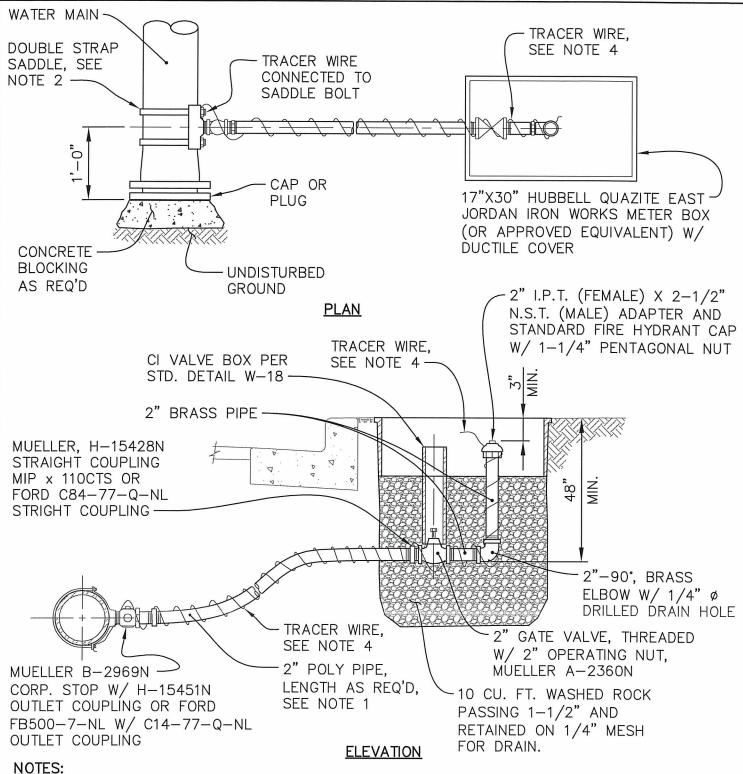
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WASHINGTON

TYPICAL AIR AND VACUUM
RELIEF VALVE DETAIL

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

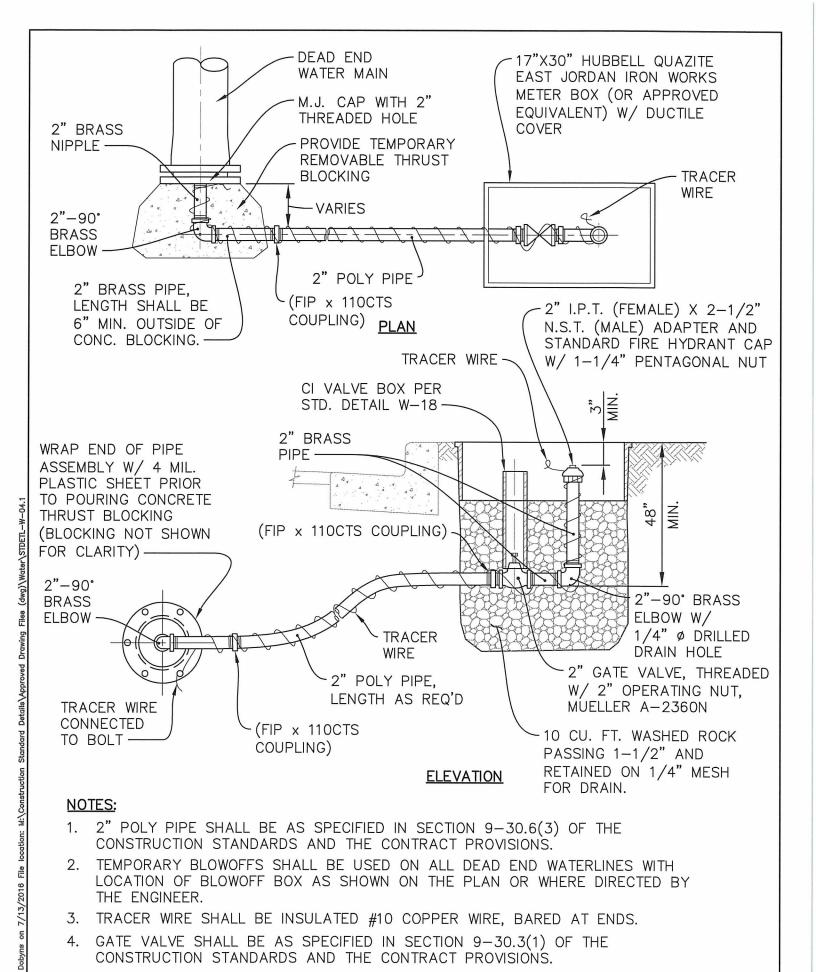
STANDARD DETAIL: W-02.1



on 1/10/2018 File location: M:\Construction

- 2" POLY PIPE SHALL BE AS SPECIFIED IN SECTION 9-30.6(3) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.
- 2. SADDLE SHALL BE AS SPECIFIED IN SECTION 9-30.6(1) OF THE CONSTRUCTION STANDARDS AND THE CONTRACT PROVISIONS.
- 3. FOR LOCATIONS WITHOUT CURB, BLOWOFF SHALL BE PLACED ON PROPERTY SIDE OF THE DITCH. IF NO ROOM IS AVAILABLE, INSTALL CULVERT IN DITCH W/ BLOWOFF IN FILL OVER CULVERT.
- 4. TRACER WIRE SHALL BE INSULATED #10 COPPER WIRE, BARED AT ENDS.

APPROVED BY CITY ENGINEER: DATE: 2" PERMANENT BLOW OFF AUBURN 20/2018 **ASSEMBLY** COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W - 03.2



APPROVED BY CITY ENGINEER:

DATE:

STANDARD DETAIL:

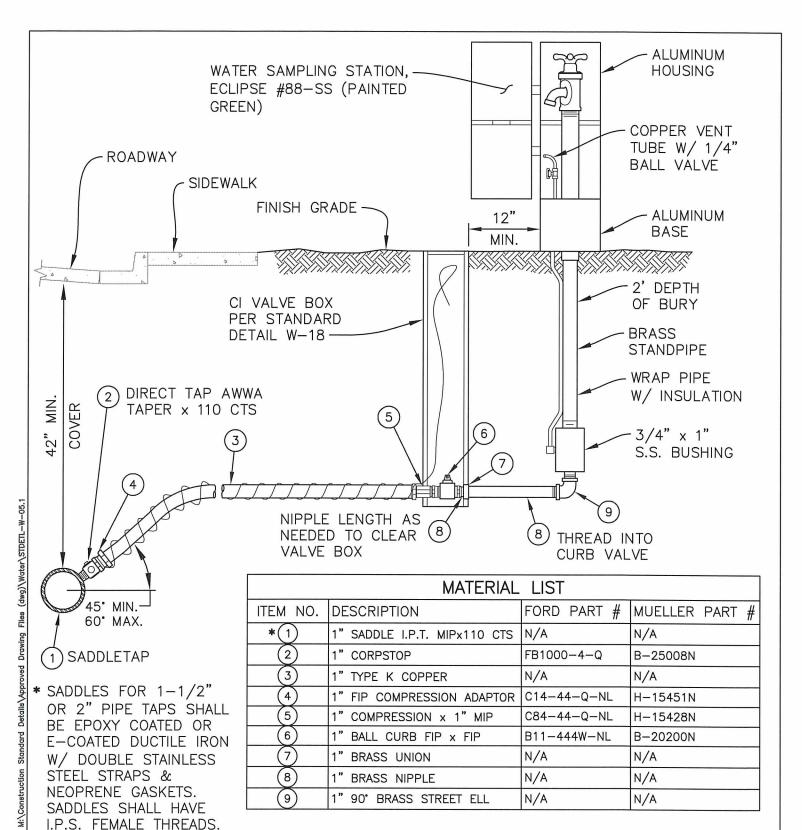
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APPROVED BY CITY ENGINEER:

DETAIL:

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-04.1



- 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.

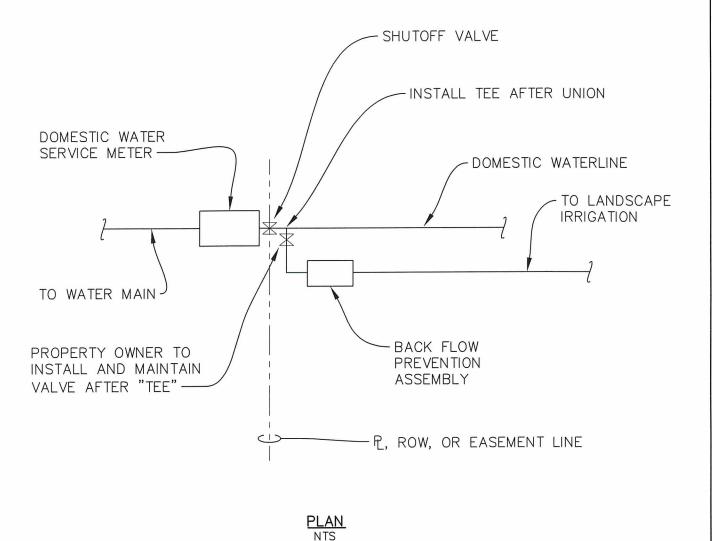
APPROVED BY CITY ENGINEER:

DATE:

WATER SAMPLING
STATIONING DETAIL

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-05.1



- 1. BACK FLOW ASSEMBLY SHALL BE PER DESIGN STANDARDS.
- 2. THIS DETAIL IS APPLICABLE TO SINGLE FAMILY RESIDENCE ONLY.

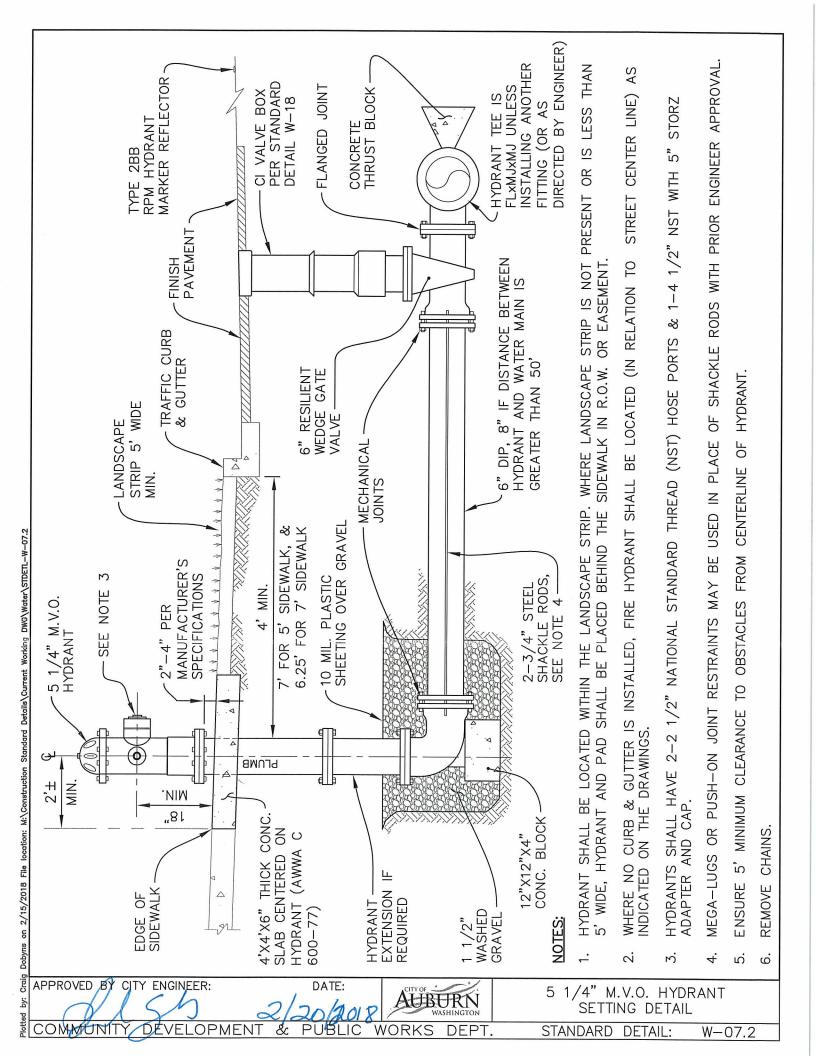
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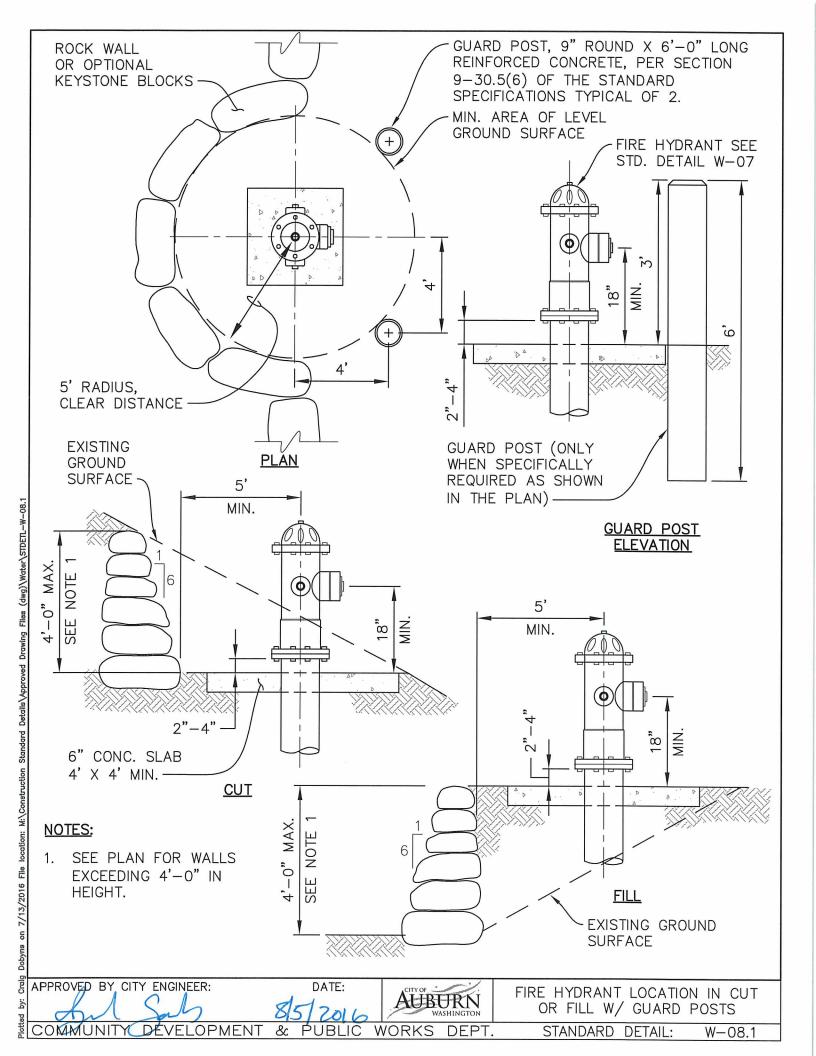
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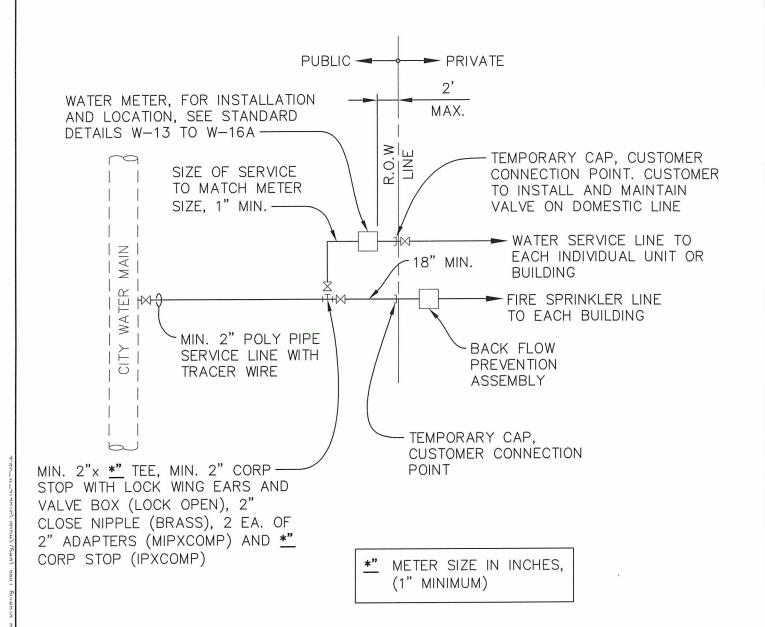
AUBURN
SERVICE LINE (SINGLE FAMILY)

COMMONITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-06.2







- 1. THIS DETAIL IS APPLICABLE TO SINGLE FAMILY RESIDENCES ONLY.
- 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.

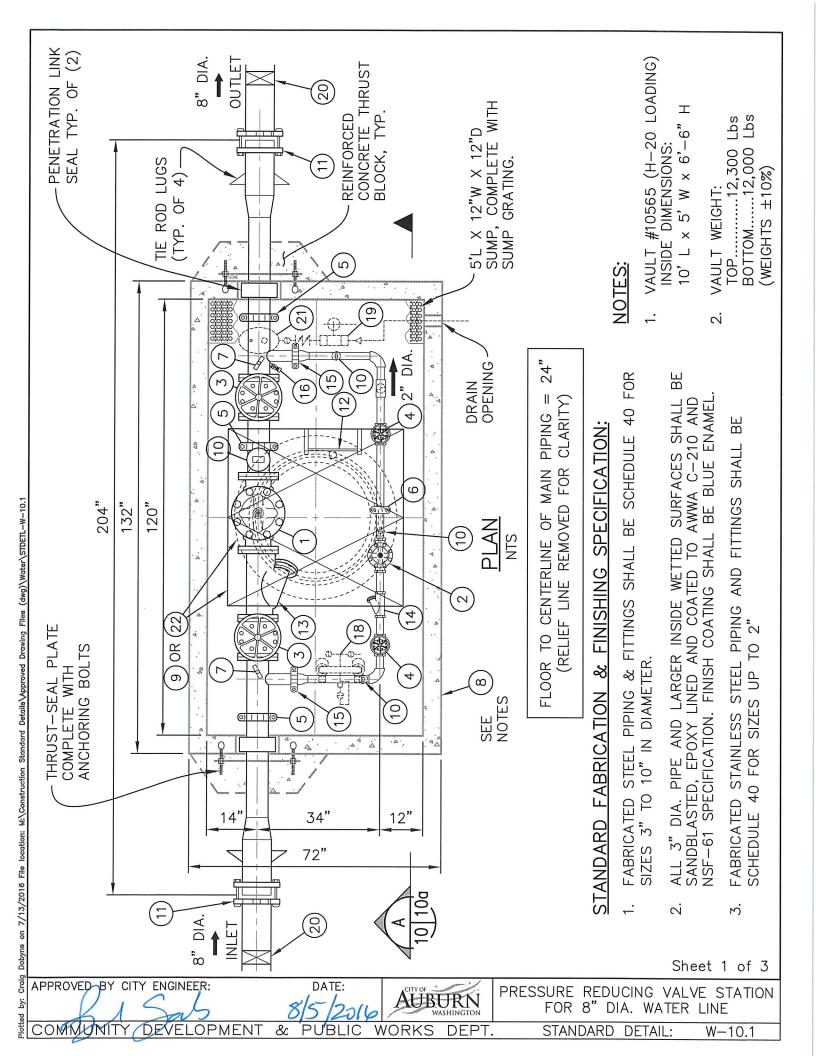
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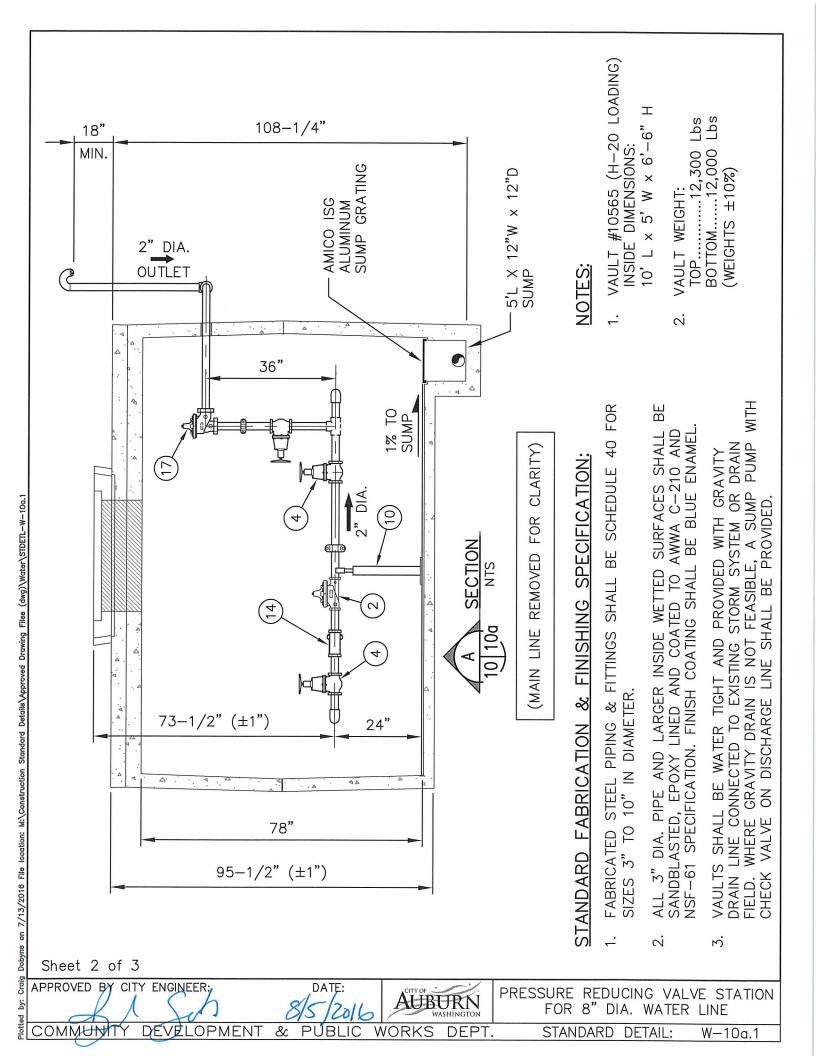
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COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. | 3/4" TO 2" FIRE SPRINKLER LINES WITH DOMESTIC SERVICE LINE

STANDARD DETAIL: W-09.2





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		BILL OF MATERIALS					
ITEM	QTY						
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 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)					
NOTE:							

OPTIONAL EQUIPMENT SHALL BE PROVIDED AS DIRECTED, OR AS APPROVED BY THE CITY OF AUBURN.

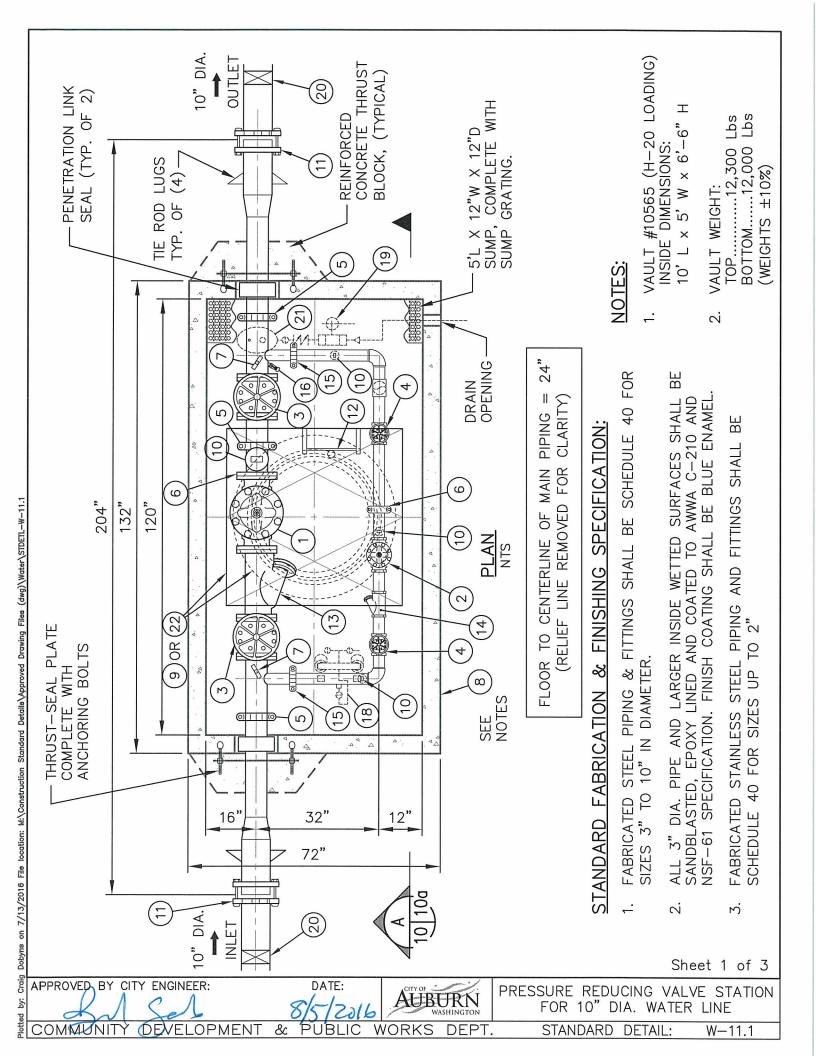
Sheet 3 of 3

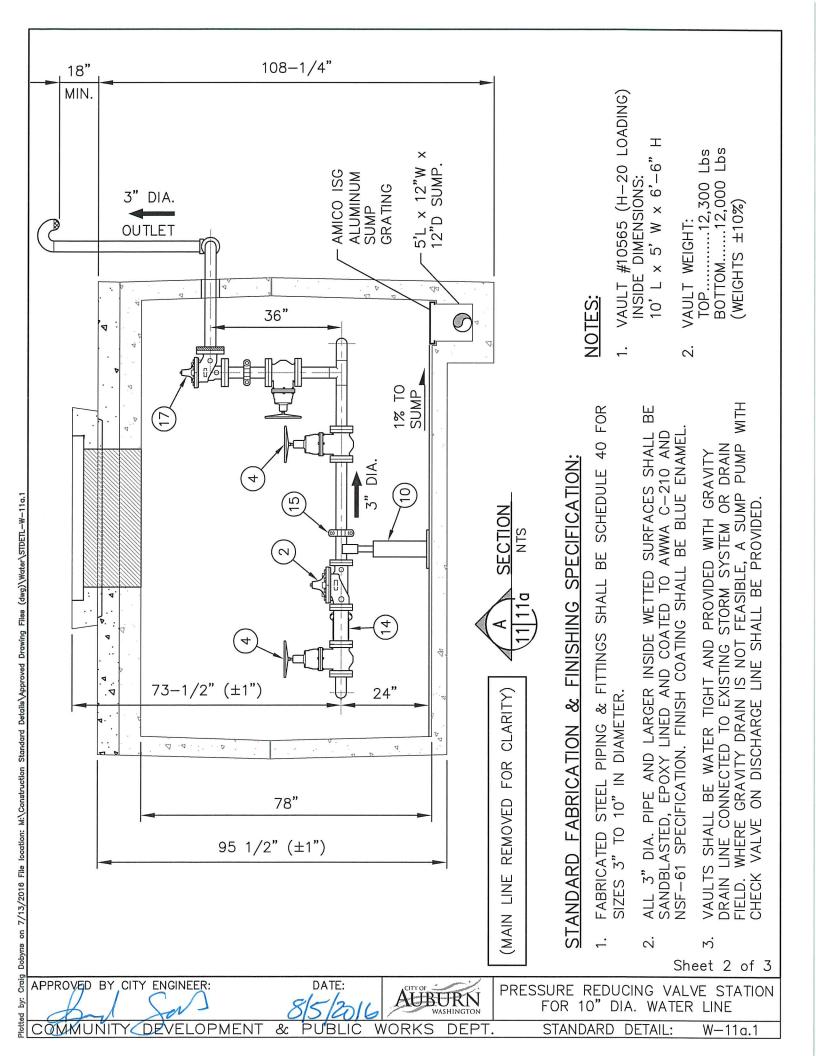
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PRESSURE REDUCING VALVE STATION FOR 8" DIA. WATER LINE





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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 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)									

NOTE:

OPTIONAL EQUIPMENT SHALL BE PROVIDED AS DIRECTED, OR AS APPROVED BY THE CITY OF AUBURN.

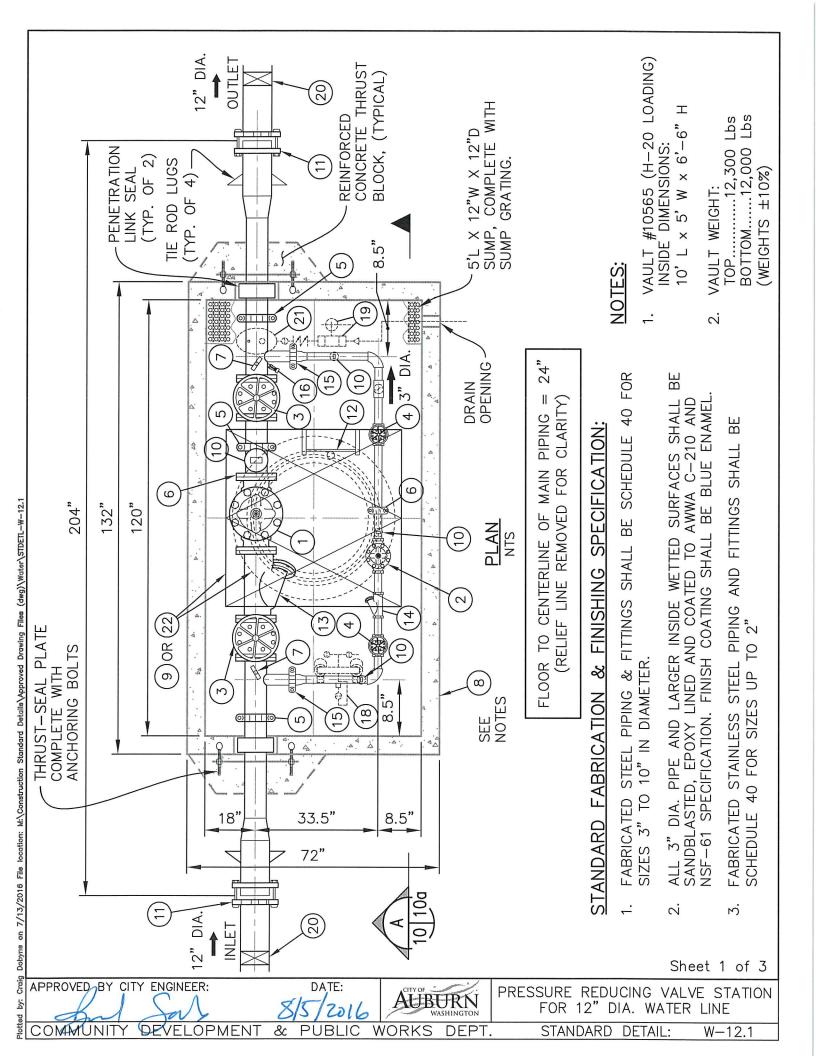
Sheet 3 of 3

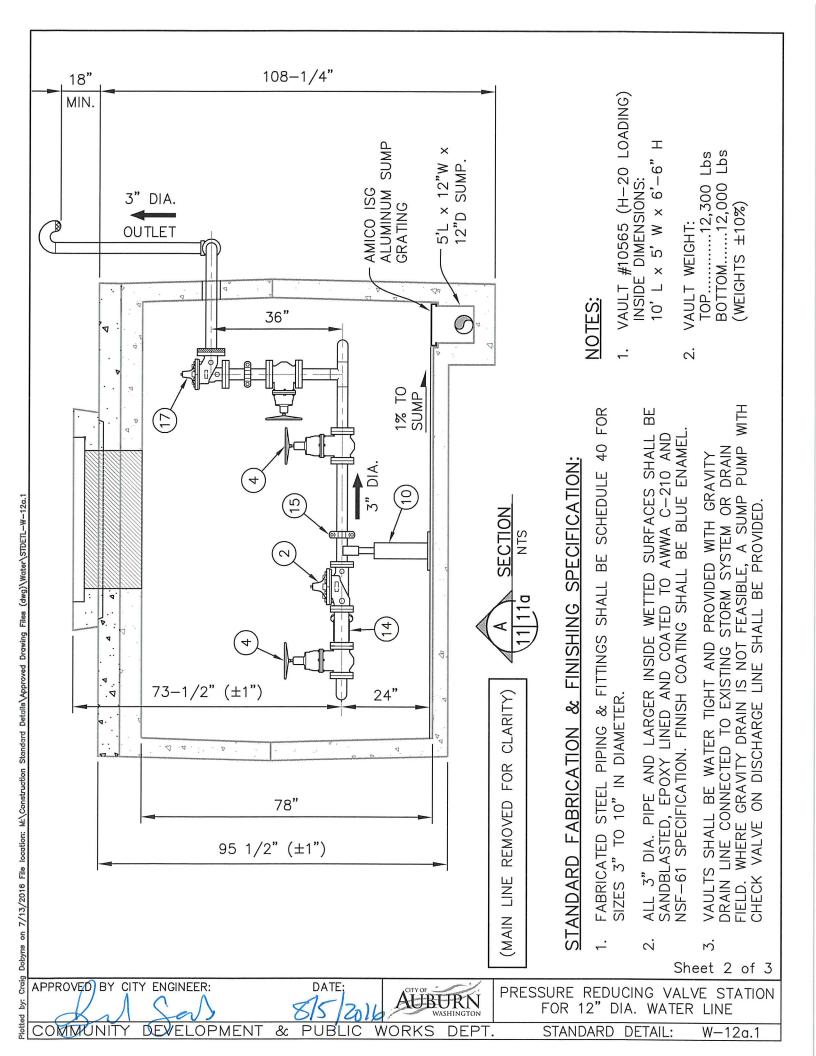
APPROVED BY CITY ENGINEER:

DATE: 8/5/2016



PRESSURE REDUCING VALVE STATION FOR 10" DIA. WATER LINE





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		BILL OF MATERIALS
ITEM	QTY	DESCRIPTION
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
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 SAFETY POST
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)
NOTE:		

OPTIONAL EQUIPMENT SHALL BE PROVIDED AS DIRECTED, AND OR AS APPROVED BY THE CITY OF AUBURN.

Sheet 3 of 3

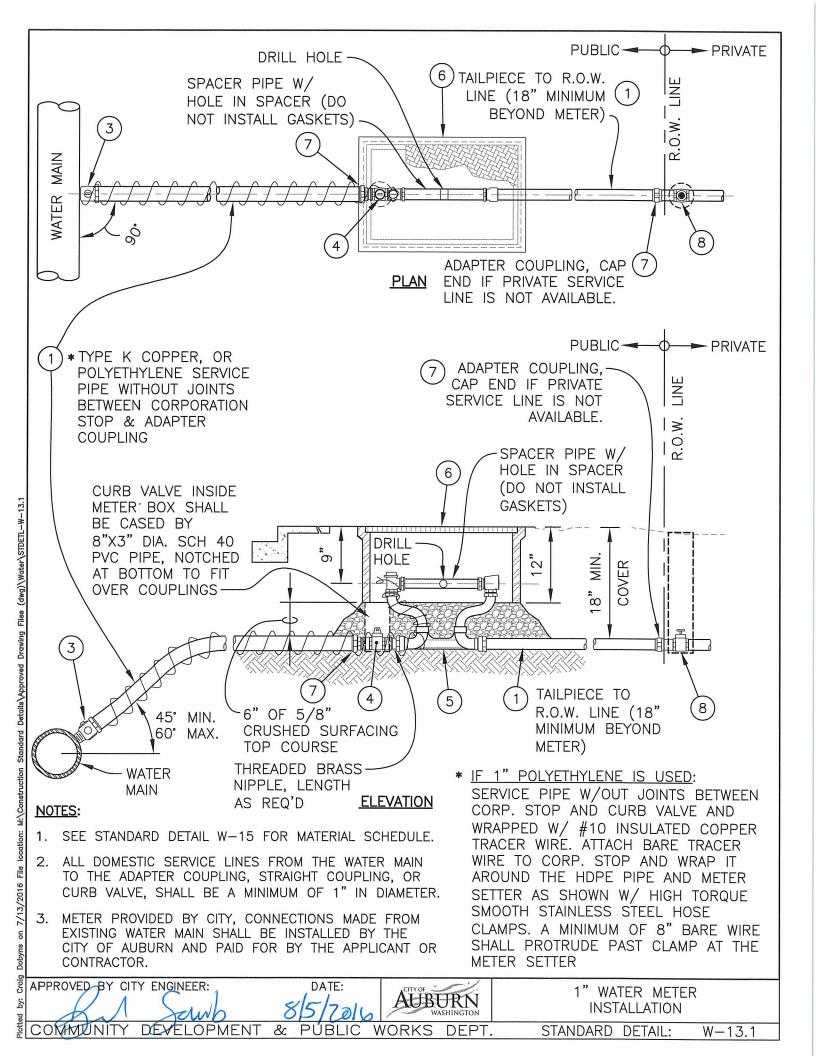
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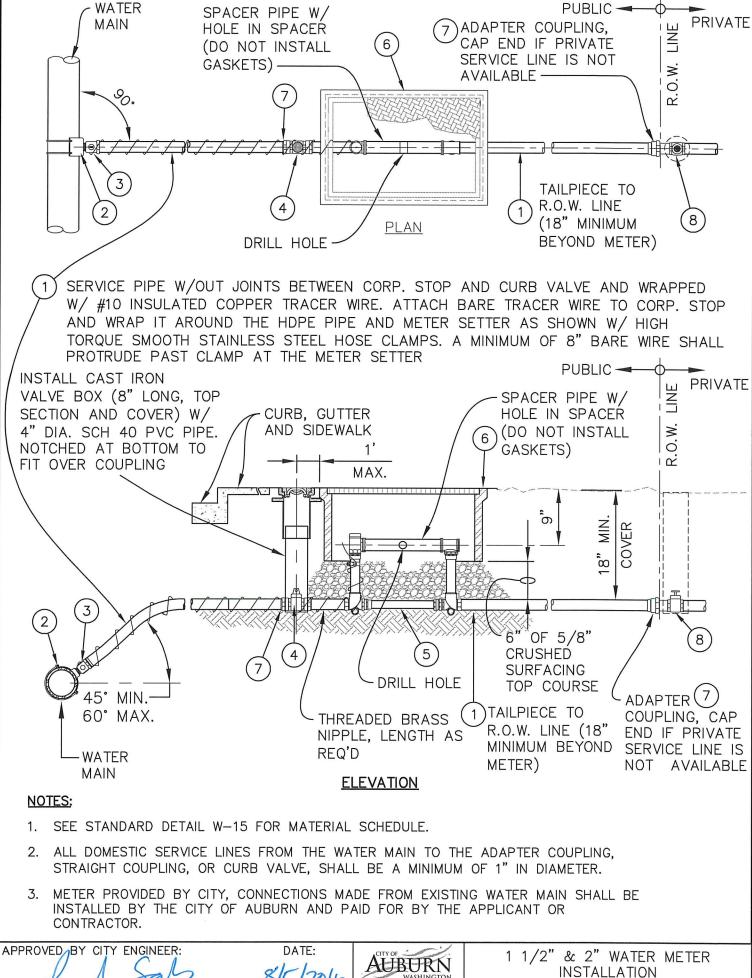




PRESSURE REDUCING VALVE STATION FOR 12" DIA. WATER LINE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-12b.1





COMMUNITY

DEVELOPMENT

PUBLIC

WORKS DEPT.

STANDARD DETAIL:

W - 14.1

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.
- 2 SADDLES FOR 1", 1-1/2", OR 2" PIPE TAPS SHALL BE EPOXY COATED OR E-COATED DUCTILE IRON W/ DOUBLE STAINLESS STEEL STRAPS & NEOPRENE GASKETS. SADDLES SHALL HAVE I.P.S. FEMALE THREADS.
- (8) CONTRACTOR SHALL FURNISH & INSTALL PRIVATE SERVICE LINE SHUT—OFF VALVE & RISER. FOR CAPITAL PROJECTS, SEE CONTRACT DOCUMENTS, OTHERWISE PROPERTY OWNER TO INSTALL PRIVATE SERVICE LINE SHUT—OFF VALVE AT POINT OF CONNECTION.

METER LOCATIONS:

- 1) WHERE LANDSCAPE STRIPS ARE PLANNED OR EXIST, THE METER & METER BOX WILL BE PLACED BETWEEN THE BACK OF THE CURB & THE SIDEWALK, ADJACENT TO THE SIDEWALK IF ROOM PERMITS;
- 2) WHERE THE SIDEWALK IS LOCATED ADJACENT TO THE BACK OF THE CURB OR THE LANDSCAPE STRIP IS TOO NARROW TO ACCOMMODATE THE METER BOX, THE METER & METER BOX WILL BE PLACED ADJACENT TO & AT THE BACK OF SIDEWALK;
- 3) WHERE METERS & METER BOXES ARE LOCATED IN THE STREET OR SIDEWALK OR IN LOCATIONS WHICH ARE SUBJECTED TO VEHICULAR TRAFFIC, INCLUDING DRIVEWAYS, ETC., A TRAFFIC BEARING METER BOX & LID OF APPROPRIATE LOAD RATING SHALL BE PROVIDED AS SPECIFIED (EAST JORDAN IRON WORKS, OR EQUAL).
- 4) LOCATE CURB VALVE IN THE METER BOX WHERE POSSIBLE & 1 FT. OUTSIDE IF NO ROOM INSIDE METER BOX IS AVAILABLE.
- 5) OFF STREET METER LOCATION SHALL BE APPROVED BY THE CITY.

SCHEDULE NO.	SERVICE LINE SIZE & MUELLER/FORD CATALOG NO. OR APPROVED EQUAL								
& PART	1"	1-1/2"	2"						
③ CORP. STOP	DIRECT TAP OPTION: MUELLER B-25008N OR FORD FB1000-4-Q-NL SADDLE OPTION: 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 COUPLING OR FORD FB500-6-NL W/ C14-66-Q-NL OUTLET COUPLING	MUELLER B-2969N W/ H-15451N OUTLET COUPLING OR FORD FB500-7-NL W/ C14-77-Q-NL OUTLET COUPLING						
4 CURB VALVE	MUELLER B-20200N OR FORD B11-444W-NL	MUELLER B-20200N OR FORD B11-666W-NL	MUELLER B-20200N OR FORD B11-777W-NL						
(5) METER YOKE	MUELLER B-2404R-2N W/ H-14222N INLET & H-14227N OUTLET COUPLINGS, 12" RISER	MUELLER B-2423-2N W/ H-15428N OUTLET COUPLING OR FORD VBH76-12B-11-66-NL W/ C84-66-Q-NL OUTLET COUPLING, 12" RISER	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						
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)								
7 COUPLING	MUELLER H-15428N OR FORD C84-44-Q-NL	MUELLER H-15428N OR FORD C84-66-Q-NL	MUELLER H-15428N OR FORD C84-77-Q-NL						
8 SHUT-OFF VALVE	MUELLER B-20200N W/ B-20298-99000 LEVER HANDLE, W/ 8" IRRIGATION BOX AND 6" PVC RISER								

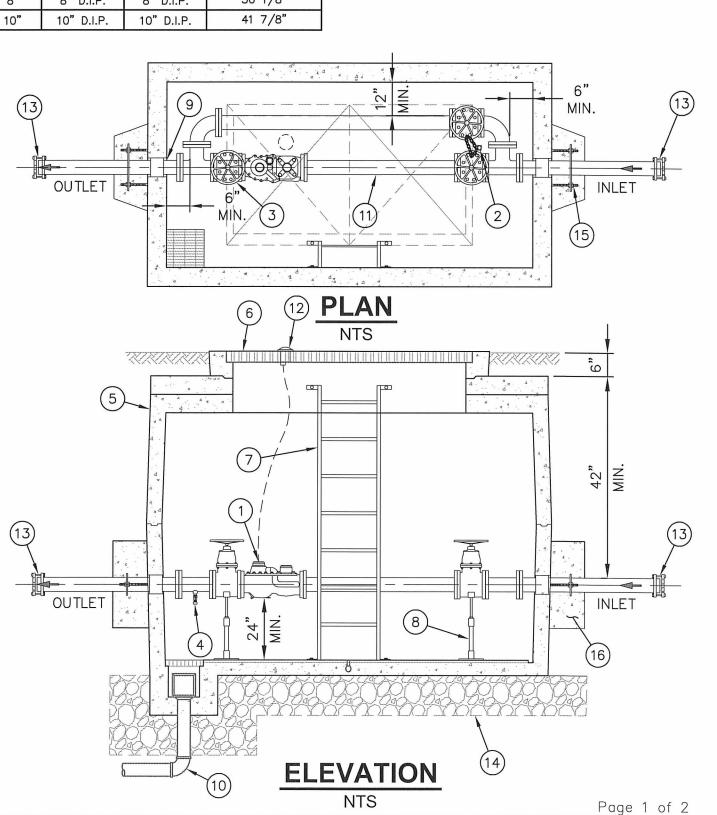
APPROVED BY CITY ENGINEER:

DATE:

WATER METER LOCATION
& MATERIAL SCHEDULE

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-15.2

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APPROVED BY CITY ENGINEER:

DEVELOPMENT

COMMUNITY

DATE: 8/5/2016

PUBLIC

AUBURN WASHINGTON WORKS DEPT

3" OR LARGER WATER METER INSTALLATION

STANDARD DETAIL: W-16.1

Piotted by: Craig Dobyns on 7/13/2016 File location: M:\Construction Standard Details\Approved Drawing Files (dwg)\Water\STDETL-W-160.1

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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.	LOCK WITH CHAINS.	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	O.S.H.A. APPROVED SAFETY LADDER, IF VAULT IS OVER 30" DEEP	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" MINIMUM	THRUST SEAL PLATE C/W ANCHORING BOLTS	REINFORCED CONCRETE THRUST BLOCKS
	Quantity	-	-	3	1	←	1	1	2	2	1	1	-	2	AS REQ'D	2	2
	Part Number	(-)	(2)	(3)	4	(2)	9	(2)	8	6	(10)	(11)	(12)	(13)	(14)	(15)	(16)

STANDARD FABRICATION & FINISHING SPECIFICATION

- ALL STEEL PIPE SHALL BE SANDBLASTED, EPOXY LINED AND COATED TO AWWA C-120 AND NSF-61 SPECIFICATIONS. FINISH COATING SHALL BE BLUE ENAMEL. $\overline{}$
- GATE VALVE ON THE BYPASS SHALL BE NORMALLY CLOSED AND LOCKED WITH THE GATE VALVE ON THE MAIN LINE AS SHOWN AND KEYS GIVEN TO THE CITY. 5
- DUCTILE IRON PIPE SHALL BE ACCORDING TO 9-30.1(1) OF THE STANDARD SPECIFICATIONS. 3)

Page 2 of 2

W-16a.1

APPROVED BY CITY ENGINEER:

DATE:

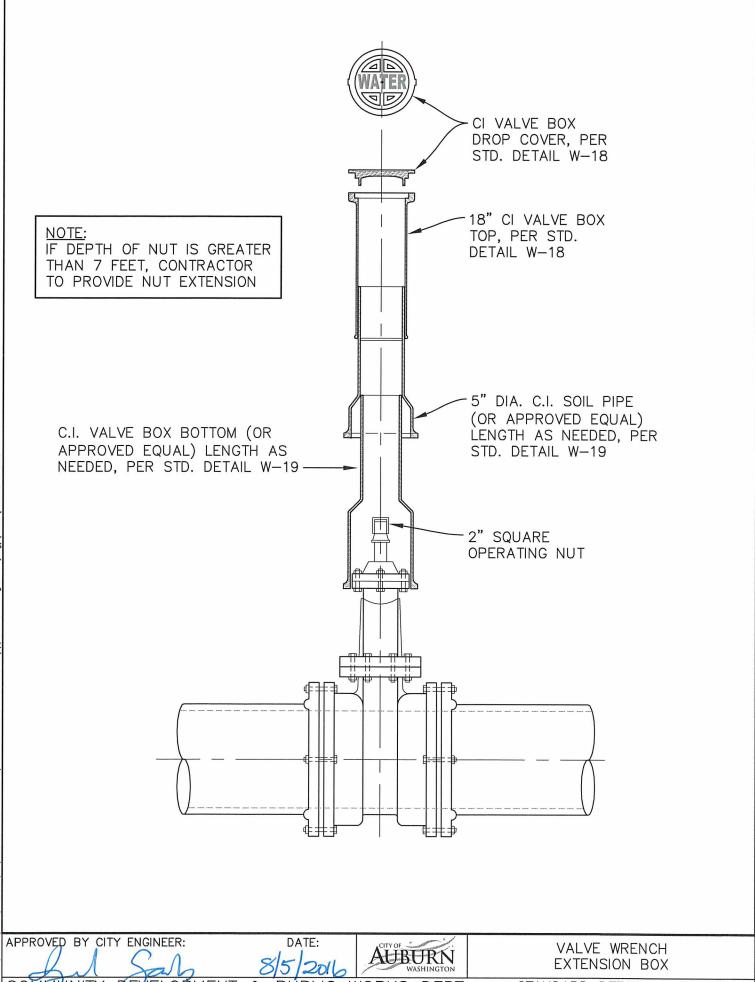
SISSIZOIS

AUBURN

METER INSTALLATION

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-



COMMUNITY

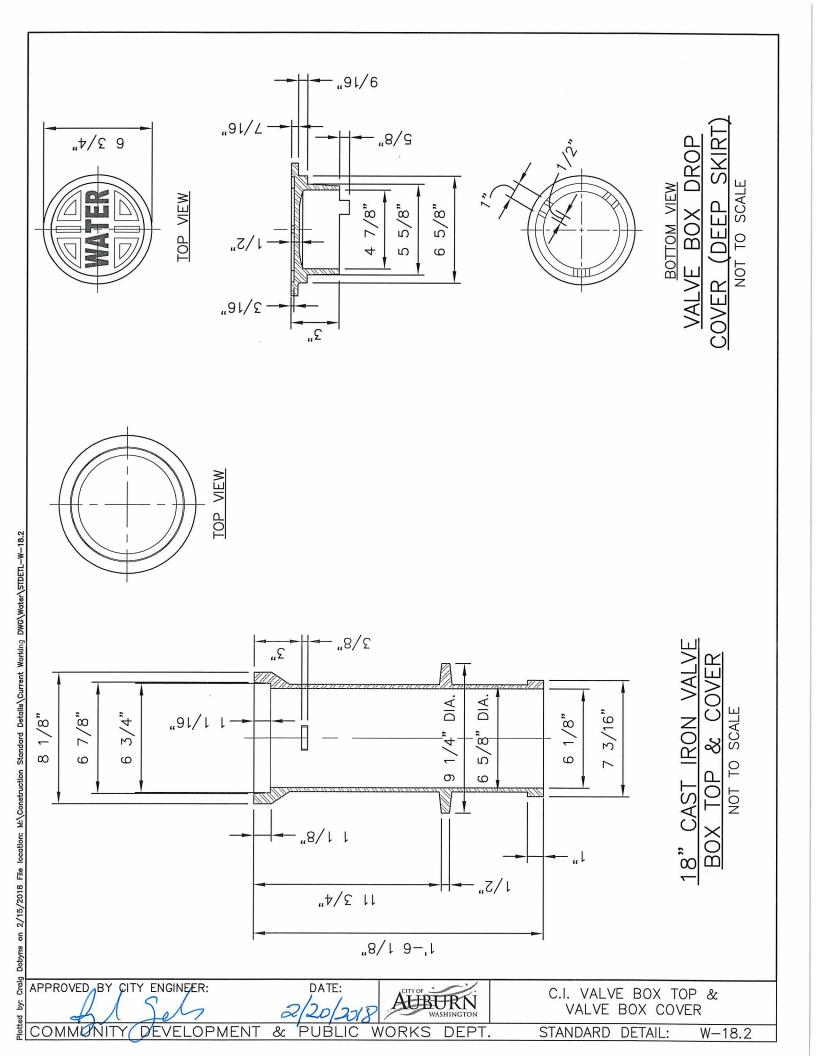
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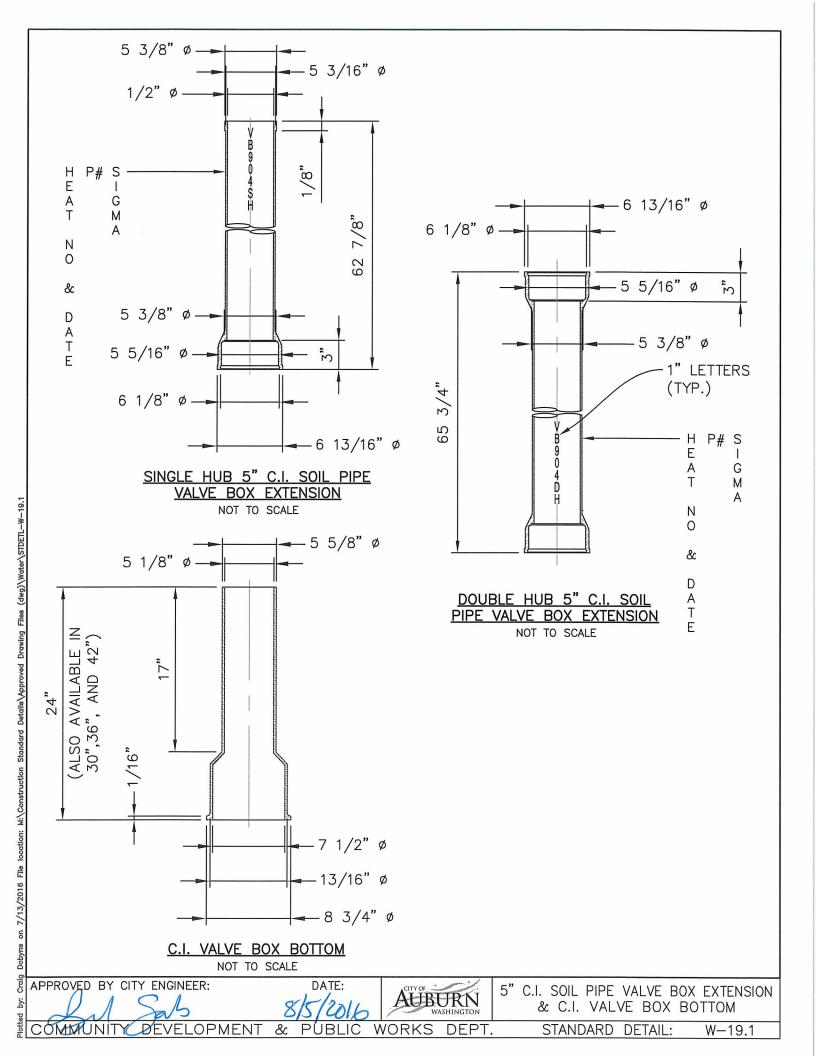
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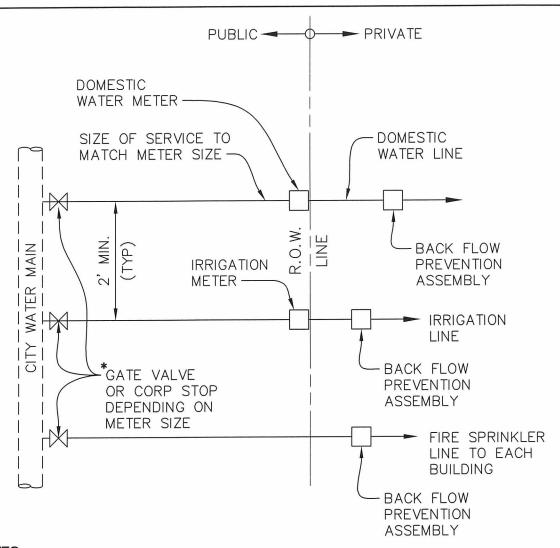
WORKS DEPT.

STANDARD DETAIL:

W-17.1





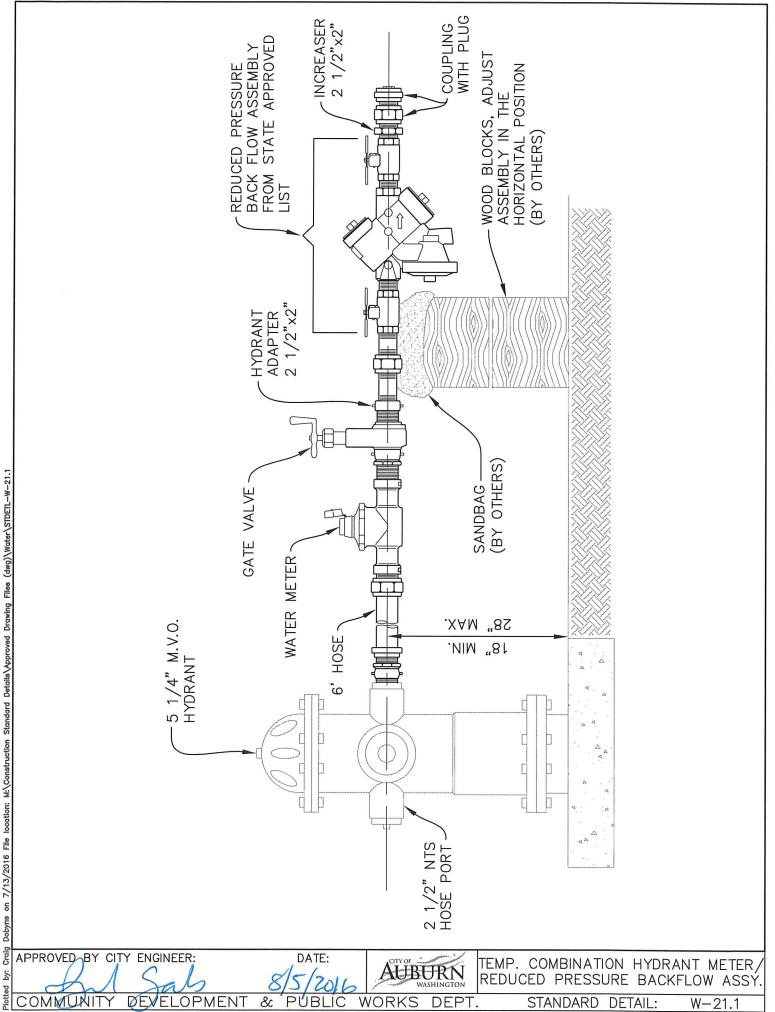


<u>NOTES:</u>

- 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.

APPROVED BY CITY ENGINEER: DATE: AUBURN SERVICE LINES

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-20.2



- INSULATED PROTECTIVE ENCLOSURE MUST COMPLY WITH THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) 1060 OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES. IT SHALL BE LOCKABLE WITH A KEY LOCK OR PADLOCK AND SHALL ALLOW FOR MINIMUM CLEARANCES AND PROVIDE ADEQUATE DRAINAGE.
- 2. RPBA SHALL BE INSTALLED ADJACENT TO THE METER AND HAVE NO BRANCH CONNECTION BETWEEN THE METER AND THE BACKFLOW ASSEMBLY.
- 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. A MINIMUM OF TWO SUPPORTS MUST FIRMLY ANCHOR THE ASSEMBLY.

APPROVED BY CITY ENGINEER:

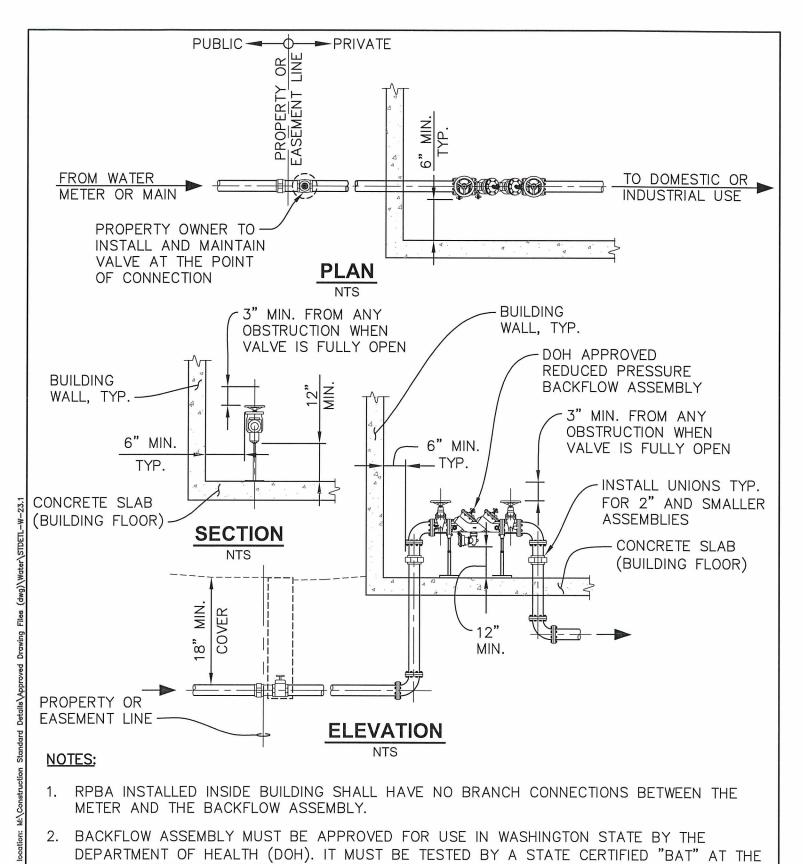
DATE:

8/5/20/6

REDUCED PRESSURE BACKFLOW ASSY.

(OUTSIDE INSTALLATION)

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT. STANDARD DETAIL: W-22.1



- RPBA INSTALLED INSIDE BUILDING SHALL HAVE NO BRANCH CONNECTIONS BETWEEN THE METER AND THE BACKFLOW ASSEMBLY.
- 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.
- BACKFLOW ASSEMBLY SHALL BE PURCHASED AND INSTALLED AS A UNIT. AS SHIPPED BY THE MANUFACTURER, WITH NO MODIFICATIONS TO ANY PART OF THE ASSEMBLY.
- A MINIMUM OF TWO SUPPORTS MUST FIRMLY ANCHOR THE ASSEMBLY.

on 7/13/2016 File

APPROVED BY CITY ENGINEER: DATE: REDUCED PRESSURE BACKFLOW ASSY. AUBURN (INSIDE INSTALLATION) PUBLIC COMMUNITY (DEVELOPMENT 28 WORKS DEPT. STANDARD DETAIL: W - 23.1

NOTES:

- 1. BACKFLOW ASSEMBLY MUST HAVE ADEQUATE SPACE CONSIDERATIONS FOR PROPER TESTING AND MAINTENANCE. A MINIMUM OF 12" CLEARANCE FROM ANY OBSTRUCTIONS ON THE TEST 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.
- MINIMUM CLEARANCE AT ABOVE ASSEMBLY SHALL BE: 9" (FOR 3/4" METER), 12" (FOR 1" METER), AND 14" (FOR 1 1/2" & 2" METER).

APPROVED BY CITY ENGINEER:

DATE:

STANDARD DETAIL:

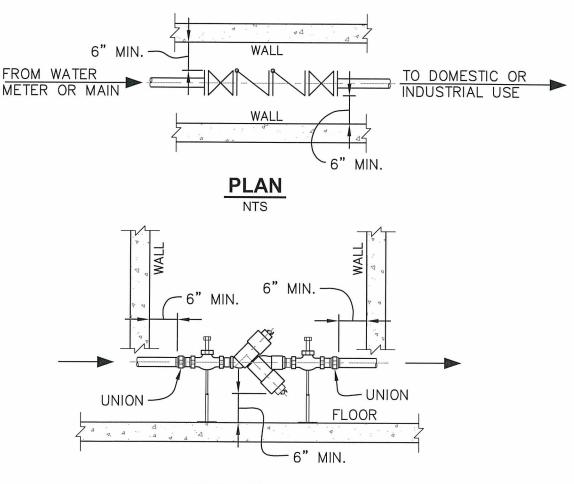
DOUBLE CHECK VALVE ASSEMBLY

(OUTSIDE INSTALLATION)

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-24.1

uction Standard Details\Approved Drawing Files (dwg)\Water\STDETL-W-24.1



ELEVATION

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.
- TWO SUPPORTS, EITHER WALL OR FLOOR, ONE ON EACH SIDE OF THE ASSEMBLY, MUST FIRMLY ANCHOR THE ASSEMBLY.

APPROVED BY CITY ENGINEER:

DATE:

STANDARD DETAIL:

DATE:

WASHINGTON

DOUBLE CHECK VALVE ASSEMBLY

(INSIDE INSTALLATION)

COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPT.

STANDARD DETAIL: W-25.1