LEGEND:

STORM DRAIN MANHOLE STORM CATCH BASIN

SANITARY SEWER MANHOLE

SANITARY SEWER CLEANOUT

POWER VAULT

STREET LIGHT ON UTILITY POLE

ELECTRICAL JUNCTION BOX

TELEPHONE MANHOLE TELEPHONE JUNCTION BOX

FIRE HYDRANT

WATER VALVE

HANDICAPPED PARKING

WATER METER

DECIDUOUS TREE

EVERGREEN TREE

STORM DRAIN LINE

SANITARY SEWER LINE WATER LINE

WATER MAIN THRUST BLOCKING

PROPOSED SANITARY SEWER MANHOLE PER COP STD DTL 04.01.01

--- PROPOSED SEWER MAIN

PROPOSED FIRE HYDRANT ASSEMBLY PER COP STD DTL 03.05.01

PROPOSED GATE VALVE --- PROPOSED WATER MAIN

----- PROPOSED GAS MAIN

PSE GAS FACILITIES EXCAVATION REQUIREMENTS:

THE REQUIREMENTS AND CONDITIONS OUTLINED BELOW APPLY WHEN EXCAVATING FOR PSE'S GAS FACILITIES AS A CONDITION OF RECEIVING GAS SERVICE FOR THE PROJECT.

- 1. CITY IS NOT REVIEWING OR APPROVING THE LOCATION OF THE GAS LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL GAS RELATED WORK WITH PSE.
- 2. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING UTILITY LOCATES BY CALLING ONE-CALL, 1-800-424-5555 AT LEAST 48 HOURS (TWO FULL WORKING WEEK DAYS) PRIOR TO DIGGING. THE EXCAVATION MUST MEET THE REQUIREMENTS OF THE WASHINGTON ADMINISTRATIVE CODE AND SAFETY STANDARDS.
- 3. CONTRACTOR SHALL CALL THE PSE CONTACT PERSON FOR TRENCH AND ROUTE APPROVAL PRIOR TO STARTING EXCAVATION.
- 4. THE GAS MAIN TRENCH SHALL BE EXCAVATED TO PROVIDE A MINIMUM OF 36 INCHES OF FACILITY COVERAGE, TO A MAXIMUM TRENCH DEPTH OF 48
- 5. USE SOIL BACKFILL THAT IS FREE FROM CONSTRUCTION DEBRIS, SHARP ROCKS, GLASS, FROZEN CLODS, AND ROCKS LARGER THAN 10 INCHES IN DIAMETER. CONTRACTOR SHALL PROVIDE AND INSTALL SAND (PER PSE SPECIFICATIONS) BEDDING AND SHADING FOR GAS FACILITY PROTECTION AS DIRECTED BY PSE'S CONTACT PERSON. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY IMPROPER BACKFILL OR COMPACTION.
- 6. CONTRACTOR AGREES TO MAINTAIN A MINIMUM OF 2 FEET OF HORIZONTAL CLEARANCE BETWEEN PSE CONDUIT, PIPE OR CONDUCTORS AND ANY FOUNDATION ON DEVELOPER'S PROPERTY.
- 7. CONTRACTOR SHALL ALLOW 45 DAYS PRIOR NOTICE TO PSE TO ACCESS GAS MAINS IF INSTALLING PAVEMENT OR CURBS.
- 8. CONTRACTOR SHALL PROVIDE THE EXCAVATION FOR PSE GAS FACILITIES WITHIN THE DESIGNED LOCATION. CONTRACTOR SHALL IDENTIFY AND PROVIDE FINAL GRADE, PROPERTY LINES, AND UTILITY EASEMENTS PRIOR TO INSTALLATION OF PSE'S GAS FACILITIES.
- 9. CONTRACTOR WILL BE FINANCIALLY LIABLE FOR THE RELOCATION OF PSE'S FACILITIES WHICH ARE INADEQUATELY COVERED, LOCATED OUTSIDE THE AREA WHERE PSE HAS ADEQUATE OPERATING RIGHTS, IMPROPERLY GRADED INHIBITING STANDARD ACCESS AND/OR ANY DAMAGES RESULTING FROM DIG-INS DUE TO CHANGES OR VARIATIONS IN GRADE THAT ARE MADE AFTER THE INSTALLATION OF PSE'S FACILITIES.

APPROVED

NOTE: THIS APPROVAL IS VOID AFTER 80 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



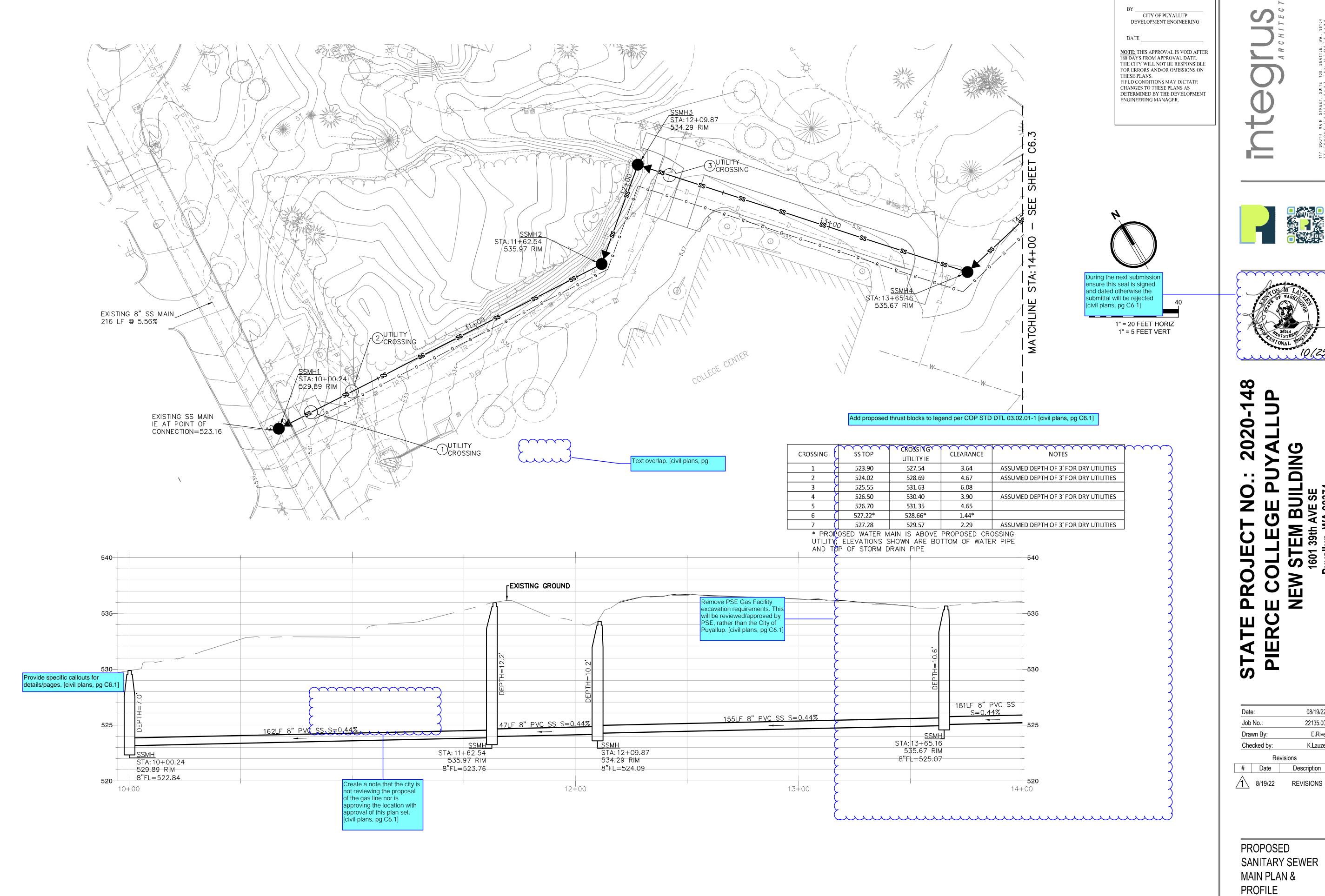


GE MBUI h AVE SE WA 9837 Z PIERC

08/19/22 22135.00 Job No.: E.Rivera Drawn By: K.Lauzen Checked by: Revisions

Date Description **1** 8/19/22 REVISIONS

PROPOSED SANITARY SEWER AND WATER OVERALL PLAN



0 20 ROJECT NO.

COLLEGE PI

EW STEM BUILL
1601 39th AVE SE
Puyallup, WA 98374 PIERC

08/19/22

22135.00

E.Rivera

K.Lauzen

Description

C6.2

SITE PERMIT SET



APPROVED

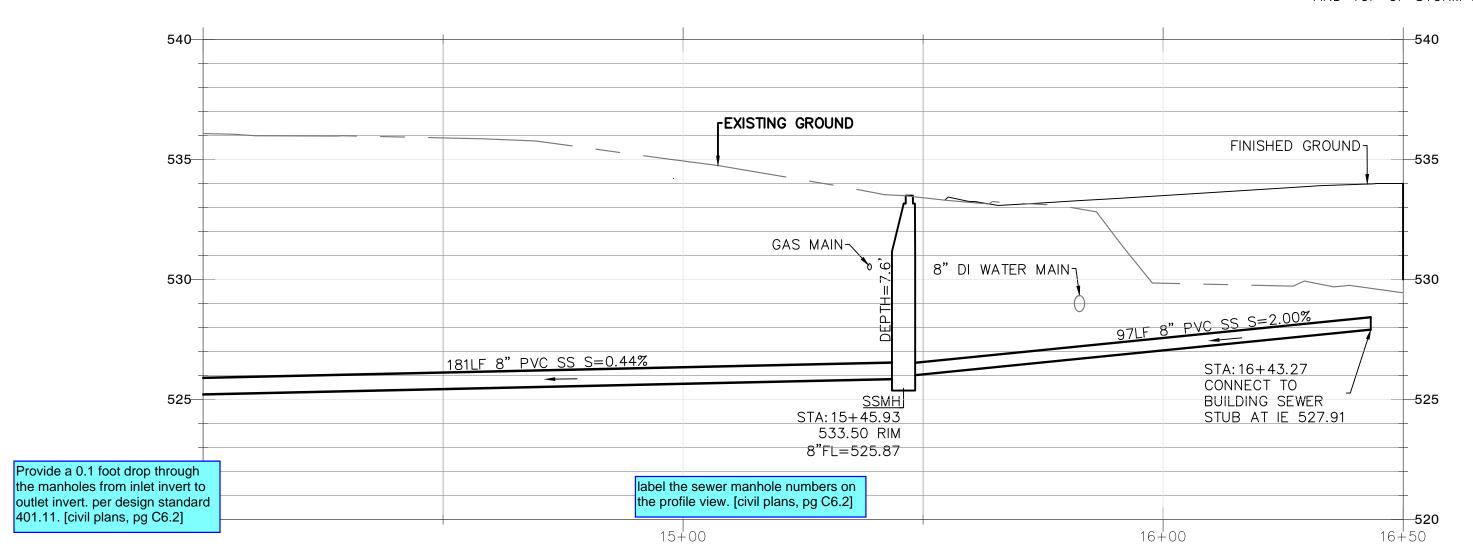




STA: 16+41.27 INSTALL SSCO PER COP STD DTL 04.03.05 ON SHEET C6.7 STA:16+43.27 CONNECT TO BUILDING SEWER STUB AT IE 527.91 FIRE HYDRANT TO BE INSTALLED PER COP STD DTL 03.05.01 ON SHEET C6.3 UTILITY CROSSING STA: 15+45.93 533.50 RIM . 1 Provide pipe crossing information. [civil plans, pg C6.2]

CROSSING	SS TOP	CROSSING UTILITY IE	CLEARANCE	NOTES
1	523.90	527.54	3.64	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
2	524.02	528.69	4.67	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
3	525.55	531.63	6.08	
4	526.50	530.40	3.90	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
5	526.70	531.35	4.65	
6	527.22*	528.66*	1.44*	
7	527.28	529.57	2.29	ASSUMED DEPTH OF 3' FOR DRY UTILITIES

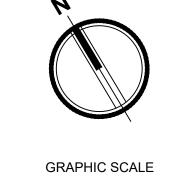
* PROPOSED WATER MAIN IS ABOVE PROPOSED CROSSING UTILITY; ELEVATIONS SHOWN ARE BOTTOM OF WATER PIPE AND TOP OF STORM DRAIN PIPE

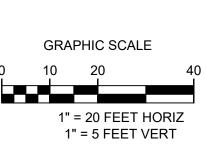


APPROVED

BY ______CITY OF PUYALLUP DEVELOPMENT ENGINEERING

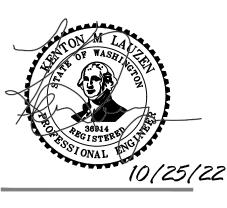
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS
DETERMINED BY THE DEVELOPMENT
ENGINEERING MANAGER.











0 20 OLLEGE F OLLEGE F V STEM BUIL 1601 39th AVE SE Puyallup, WA 98374 E CO

STATE 08/19/22 22135.00 E.Rivera Drawn By: K.Lauzen

Date Description 8/19/22 REVISIONS

PROPOSED SANITARY SEWER MAIN PLAN & **PROFILE**

label the sewer manhole number on the profile view. [civil plans, pg C6.2]

STA: 10+00.00
CONNECT TO EXISTING
8" WATER MAIN

L_{100LF}-8" DI WA

11+00

12+00

520-

515-

510-

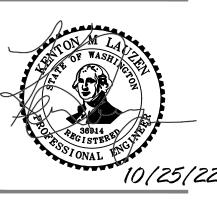
10+00

APPROVED BY _____CITY OF PUYALLUP FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.









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STATE | PIERCI

Date	e:		08/19/22
Job No.:			22135.00
Dra	wn By:		E.Rivera
Checked by:			K.Lauzen
	Re	evisions	

8/19/22 REVISIONS

PROPOSED WATER MAIN PLAN & PROFILE

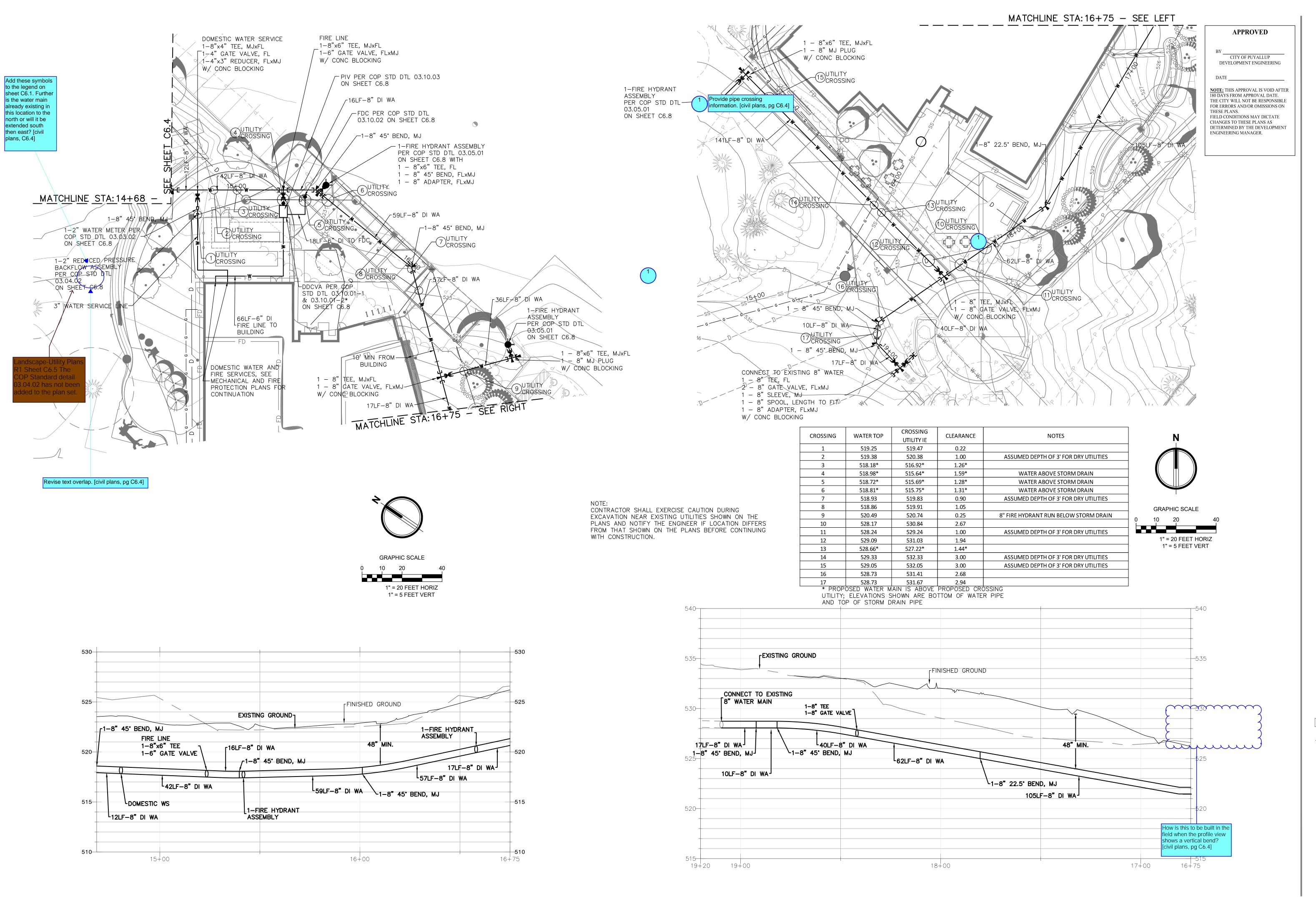
C6.4

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE

1-8" 45° BEND, MJ-

14+00

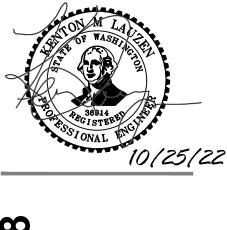
510 14+68



SITE PERMIT SET







0 4 **ILDING** 0 **1** GE I M BUII Th AVE SE WA 9837 0 NEW PIERC

Date:	08/19/22
Job No.:	22135.00
Drawn By:	E.Rivera
Checked by:	K.Lauzen
Revision	ns

Date Description 1 8/19/22 REVISIONS

PROPOSED WATER MAIN PLAN & PROFILE

APPROVED

CITY OF PUYALLUP

NOTE: THIS APPROVAL IS VOID AFTER

80 DAYS FROM APPROVAL DATE.

THE CITY WILL NOT BE RESPONSIBLE

FOR ERRORS AND/OR OMISSIONS ON

DETERMINED BY THE DEVELOPMENT

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

ENGINEERING MANAGER.

THESE PLANS.

DEVELOPMENT ENGINEERING

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A 'PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").

4. A COPY The domestic water service tee and gate valve is
5. ANY RE 4 inches whereas the water service line is called the proof of the control of the contr

IMPLEMENTAT out as 3 inches. [civil plans, pg C6.5]

NSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS CHER ENCINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S

8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.

9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.

10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH-LOCATED (WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC

10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED (WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5

FEET.

11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND

DELICENSED PROFESSIONAL CIVIL ENGINEER.

UBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KERT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE ICTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.

ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.

ALL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT TH

AL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE EST REGION OFFICE AT (360)407-6300.

15. ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

information. [civil plans, pg C6.4]

SANITARY SEWER NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SEWER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.

5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF

PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE

8. MINIMUM CRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT;
MAXIMUM SPRONDED ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.

9. SIDE Sand length of pipes. [civil LED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHAIL PIPER SEWER INSTALLATION INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).

10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM EPOXY LINING OR EQUIVALENT, UNL Show pipe crossing info. The World Show pipe cross pipe cross pi

11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.

12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04. ALL MANHOLES SHALL BE CHANNELED FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.03.

13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES WITH THE EXCEPTION OF SIDE SEWERS THAT PROVIDE SERVICE TO A SINGLE—FAMILY RESIDENCE. AT THE DISCRETION OF THE REVIEW ENGINEER, A LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED TO STAMP THE DESIGN TO ACCOUNT FOR DEPTH OR PROXIMITY TO FOUNDATION, STEEP SLOPES, OR OTHER FACTORS.

14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED

ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.

15. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.

16. ONCE SEWER AND ALL OTHER UTILITY CONSTRUCTION IS COMPLETED, ALL SANITARY SEWER MAINS AND SIDE SEWERS SHALL BE TESTED PER SECTION 406 OF THE CITY STANDARDS.
406 TESTING REQUIREMENTS

GRAVITY SANITARY SEWER CLEANING AND TESTING REQUIREMENTS SHALL BE AS OUTLINED IN WSDOT SECTION 7-17.3(2). SANITARY SEWER CLEANING AND TESTING SHALL BE COMPLETED TO THE SATISFACTION OF THE OFFICE OF THE CITY ENGINEER AND/OR PUBLIC WORKS DEPARTMENT PRIOR TO FINAL ACCEPTANCE. AFTER COMPLETION OF ALL PROJECT UTILITY WORK (SEWER, WATER, STORM, ETC.) AND ASSOCIATED UTILITY TRENCH BACKFILL AND COMPACTION, SEWER LINES SHALL BE CLEANED AND TESTED BY THE CONTRACTOR PRIOR TO FINAL PROJECT ACCEPTANCE, AS OUTLINED IN SECTION 406.1 THROUGH 406.4. AT THE END OF THE MAINTENANCE AND WARRANTY PERIOD, THE CITY WILL PERFORM A FINAL CCTV INSPECTION PER 406.4 TO VERIFY THAT THE WORK PERFORMED CONFORMS TO CITY STANDARDS PRIOR TO BOND RELEASE.

PHYSICAL CONNECTION TO THE EXISTING CITY SEWER SYSTEM SHALL NOT BE ALLOWED UNTIL ALL PIPES HAVE BEEN THOROUGHLY CLEANED BY JETTING AND/OR PIGGING TO REMOVE ANY SOLIDS OR CONSTRUCTION DEBRIS THAT MAY HAVE ENTERED THE PIPE.

THE CONTRACTOR SHALL ARRANGE TO HAVE THE WATER ACCUMULATED DURING CONSTRUCTION AND SANITARY SYSTEM CLEANING OPERATIONS REMOVED FROM THE SEWER SYSTEM BY A VACTOR TRUCK.

WATER FROM THE NEW SEWER EXTENSION SHALL NOT BE PERMITTED TO ENTER THE EXISTING CITY SYSTEM UNTIL FINAL PROJECT APPROVAL. SEDIMENT OR DEBRIS INTRODUCED TO EXISTING CITY SEWERS AS A RESULT OF ANY CONSTRUCTION ACTIVITY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR IN CONFORMANCE WITH WSDOT SECTION 7-17.

406.2 DEFLECTION TESTING

GRAVITY SANITARY SEWERS SHALL BE TESTED FOR DEFLECTION PRIOR TO VISUAL INSPECTION. THERMOPLASTIC PIPE SHALL BE TESTED FOR DEFLECTION NOT LESS THAN 30 DAYS AFTER THE TRENCH BACKFILL AND COMPACTION HAS BEEN COMPLETED. DEFLECTION TESTING SHALL BE CONDUCTED BY PULLING A MANDREL (RIGID OR ADJUSTABLE) WITH A DIAMETER NOT LESS THAN 95 PERCENT OF THE NORMAL DIAMETER OF THE PIPE BEING TESTED. MANDREL TESTING SHALL BE CONDUCTED IN CONFORMANCE WITH WSDOT SECTION 7-17.3(2)G.

406.3 LEAKAGE TESTING

ALL NEW GRAVITY SANITARY SEWER MAINS AND THE RIGHT-OF-WAY LATERALS SHALL BE SUBJECT TO A LOW-PRESSURE AIR TEST PER WSDOT SECTION 7-17.3(2)F. LOW PRESSURE AIR TESTING SHALL BE CONDUCTED AFTER BACKFILLING IS COMPLETED AND THE BACKFILL MATERIAL HAS BEEN COMPACTED IN CONFORMANCE WITH THE APPROVED PLANS. CONFORMING COMPACTION SHALL BE VERIFIED BY NUCLEAR GAUGE TESTING AND/OR PROOF ROLLING AT THE DISCRETION OF ENGINEERING STAFF. THE CITY ENGINEER OR DESIGNEE SHALL OBSERVE ALL TESTING TO VERIFY SATISFACTORY COMPLETION. THE CITY ENGINEER OR DESIGNEE MAY REQUIRE THAT AIR TEST PRESSURE BE MAINTAINED AT 4.0 PSIG WITH NO DROP FOR 15 MINUTES FOR A PASSING LEAKAGE TEST WHERE GROUNDWATER PRESSURE IS DEEMED NEGLIGIBLE, OR AT THE CITY ENGINEER'S OR DESIGNEE'S DISCRETION.

THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT AND PERSONNEL FOR CONDUCTING THE PRESSURE TEST. THE CONTRACTOR SHALL PROVIDE CERTIFICATION FROM A CERTIFIED/ACCREDITED LABORATORY THAT TESTING EQUIPMENT IS ACCURATE. ALL EQUIPMENT AND PERSONNEL SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER OR DESIGNEE.

IF ANY PORTION OF THE SANITARY SYSTEM FAILS TO MEET THE TESTING REQUIREMENTS, THE CONTRACTOR SHALL DETERMINE, AT THEIR OWN EXPENSE, THE SOURCE OF LEAKAGE AND SHALL REPAIR OR REPLACE ALL DEFECTIVE MATERIALS OR WORKMANSHIP. THE COMPLETED PIPE INSTALLATION SHALL MEET THE MINIMUM TESTING REQUIREMENTS BEFORE BEING CONSIDERED ACCEPTABLE.

406.4 TELEVISION INSPECTION

ALL NEW GRAVITY SANITARY SEWER EXTENSIONS SHALL BE VISUALLY INSPECTED IN CONFORMANCE WITH WSDOT SECTION 7-17.3(2)H, FOLLOWING SATISFACTORY TRENCH COMPACTION TESTING, FLUSHING, LOW PRESSURE AIR TESTING, AND DEFLECTION TESTING. ALL MANHOLES SHALL BE CHANNELED AND GRADE RINGS SET IN PLACE PRIOR TO SEWER VIDEO INSPECTION.

THE REMOTE CAMERA USED IN SEWER VISUAL INSPECTION SHALL BE ONE SPECIFICALLY DESIGNED FOR SUCH AN APPLICATION, WITH THE ABILITY TO ROTATE THE CAMERA 180 DEGREES AND LIGHTING SUITABLE TO ALLOW A CLEAR PICTURE OF THE ENTIRE PERIPHERY OF THE PIPE. THE CAMERA SHALL PROCEED THROUGH THE PIPE AT A SUFFICIENTLY SLOW VELOCITY TO ALLOW ADEQUATE INSPECTION OF ALL PIPE JOINTS. ALL SEWER LATERAL FITTINGS AND JOINTS AND SUSPECT PIPE JOINTS SHALL BE CLOSELY INSPECTED BY ROTATING THE CAMERA AS NEEDED TO PROVIDE A CLEAR VIEW.

THE CONTRACTOR SHALL INTRODUCE WATER TO THE NEW SEWER SYSTEM IMMEDIATELY PRIOR TO THE VISUAL INSPECTION BY ADDING WATER TO THE UPSTREAM MANHOLE UNTIL WATER IS SEEN FLOWING IN THE LOWEST MANHOLE. VIDEO INSPECTION OF THE LINE SHALL BEGIN WHEN FLOW IN THE LOWEST MANHOLE HAS STOPPED. A 1—INCH SEWER BALL SHALL BE ATTACHED TO THE FRONT OF THE CAMERA TO PROVIDE A BASIS FOR ESTIMATING THE DEPTH OF THE PONDING WITHIN THE SEWER PIPE.

TELEVISION INSPECTION ACCEPTANCE CRITERIA:

1. ANY PONDING WITHIN A PIPE SHALL BE LESS THAN ONE—HALF INCH (1/2") IN DEPTH.

2. THE TOTAL ACCUMULATED PONDING LENGTH, REGARDLESS OF DEPTH, FROM MANHOLE TO MANHOLE SHALL BE LESS THAN TEN (10) PERCENT OF THE TOTAL LENGTH FROM MANHOLE TO MANHOLE.

ANY SEWER PIPE THAT EXCEEDS EITHER OF THE ABOVE ACCEPTANCE CRITERIA WILL BE REJECTED AND REQUIRE REPAIR AND/OR REPLACEMENT BY THE CONTRACTOR.

THE CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OF ANY DEFICIENCIES FOUND DURING TV INSPECTION, INCLUDING THE COSTS FOR ADDITIONAL

TV INSPECTION AND LEAKAGE TESTING NEEDED TO VERIFY THE DEFICIENCIES WERE CORRECTED. ALL COMPONENTS OF THE VIDEO AND RECORDING EQUIPMENT SHALL BE SUFFICIENT TO PROVIDE PICTURE QUALITY TO THE SATISFACTION OF THE CITY ENGINEER OR DESIGNEE.

UPON COMPLETION OF THE VIDEO INSPECTION, THE DIGITAL VIDEO, OF COMMON FORMAT, AND WRITTEN INSPECTION REPORT SHALL BE SUBMITTED TO THE CITY

FOR REVIEW. AT A MINIMUM, THE INSPECTION REPORT SHALL CONTAIN THE FOLLOWING INFORMATION:

SIZE, LENGTH, AND MATERIAL TYPE OF THE SEWER MAIN.
LOCATION OF ALL LATERAL CONNECTIONS.

LOCATION OF ALL LATERAL CONNECTIONS.

ESTIMATED DEPTH AND LOCATION OF ALL PONDING OVER 1.4

ESTIMATED DEPTH AND LOCATION OF ALL PONDING OVER 1/4 INCH IN DEPTH
MANHOLE NUMBERS THAT CORRESPOND TO THE APPROVED PLANS

STREET NAME AND/OR LOCATION OF SEWER MAIN

WATER SYSTEM NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.

3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.

5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR, PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.

6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.

8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.

9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT—OF—WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT—OF—WAY AND UNIMPROVED EASEMENTS.

10. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.

11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS—STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO—PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6—INCH TAP ON 8—INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.

12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7—09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.

13. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.

14. VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.

15. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER

16. PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.

17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.

18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH

SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.

19. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.

20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY, OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.

21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.

22. WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTS 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10

23. WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.

24. SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.

25. WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09) (NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)

a. REPAIR WITHOUT DEPRESSURIZATION — SMALL LEAKS SHALL BE REPAIRED USING REPAIR BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER—EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF).

b. REPAIR/CUT-IN WITH DEPRESSURIZATION - TRENCH SHALL BE OVER EXCAVATED AND DEWATERED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR. IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER MAIN BREAK PROCEDURE."

26. NEW WATER MAIN INSTALLATION:

a. EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED. NATIONAL SANITATION FOUNDATION (NSF) APPROVED SIXTY—FIVE PERCENT (65%) CALCIUM HYPOCHLORITE SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA

65% Calcium Hypochlorite Addition per Pipe Section

	Pipe Volume	5-gram	Hypochlori	te Granules	Maximum
Pipe Diameter	per 18 feet	tablets per	Ounces per	Teaspoons	Fill Rate
(Inches)	(gal)	pipe section	500 feet	per 18 feet	(gpm)_
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	2.5	600

b. NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW MATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.

c. THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST IS COMPLETED. IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L. UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.

d. PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE ON THE BACK SIDE OF THE VALVE SHOULD NOT BE ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.

e. AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24)A WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ONSITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT (WPCP) SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PREVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.

f. SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.

g. ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW OR REPLACED WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.





TATE PROJECT NO.: 2020-1 PIERCE COLLEGE PUYALLU NEW STEM BUILDING 1601 39th AVE SE Puyallup, WA 98374

 Date:
 08/19/22

 Job No.:
 22135.00

 Drawn By:
 E.Rivera

 Checked by:
 K.Lauzen

 Revisions

Description

Date

/**1**\ 8/19/22

PROPOSED
SANITARY SEWER 8
WATER NOTES

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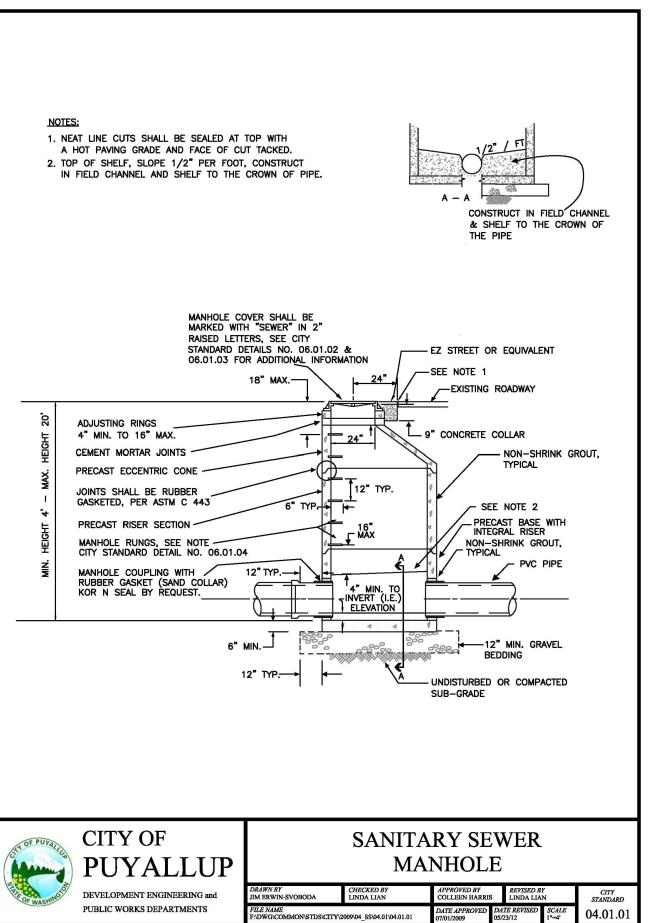
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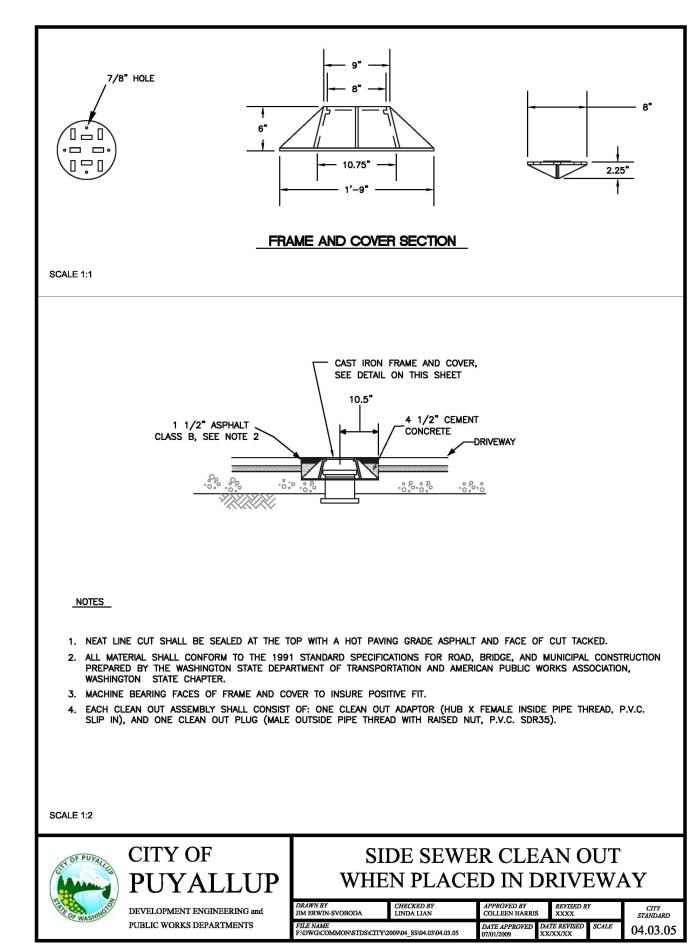
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Date Description **/1**\ 8/19/22 REVISIONS

PROPOSED SANITARY SEWER &

WATER DETAILS

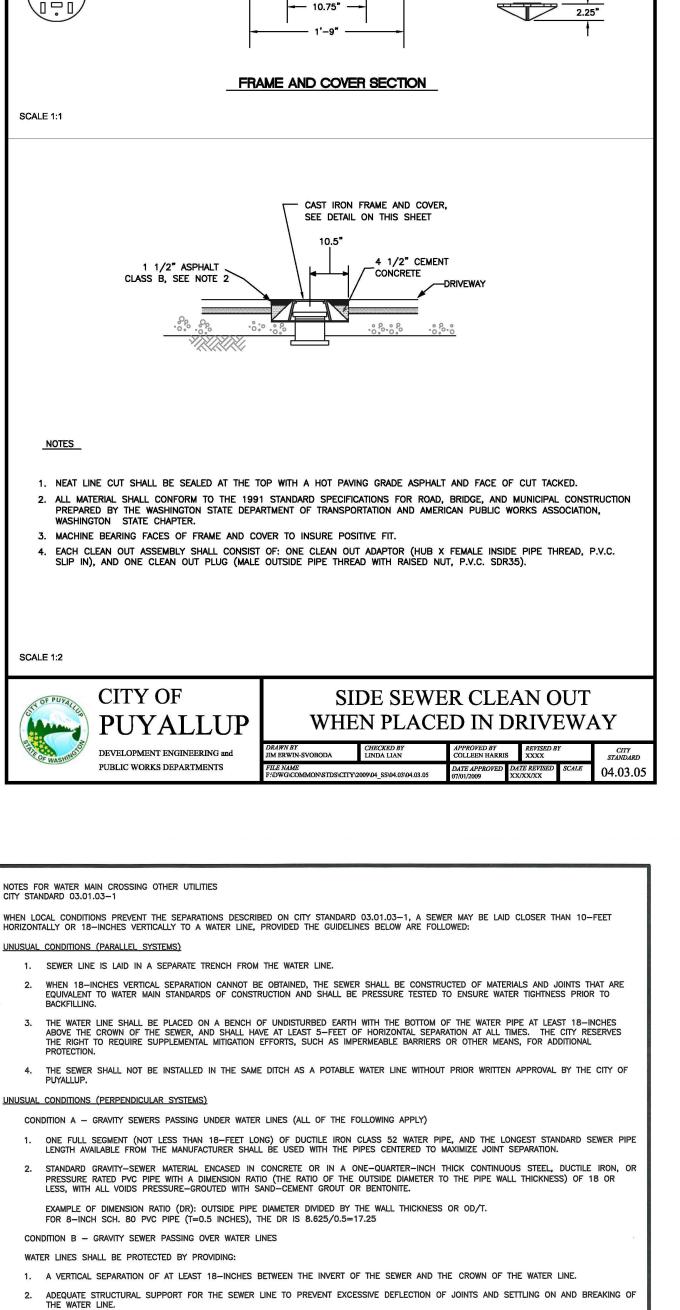


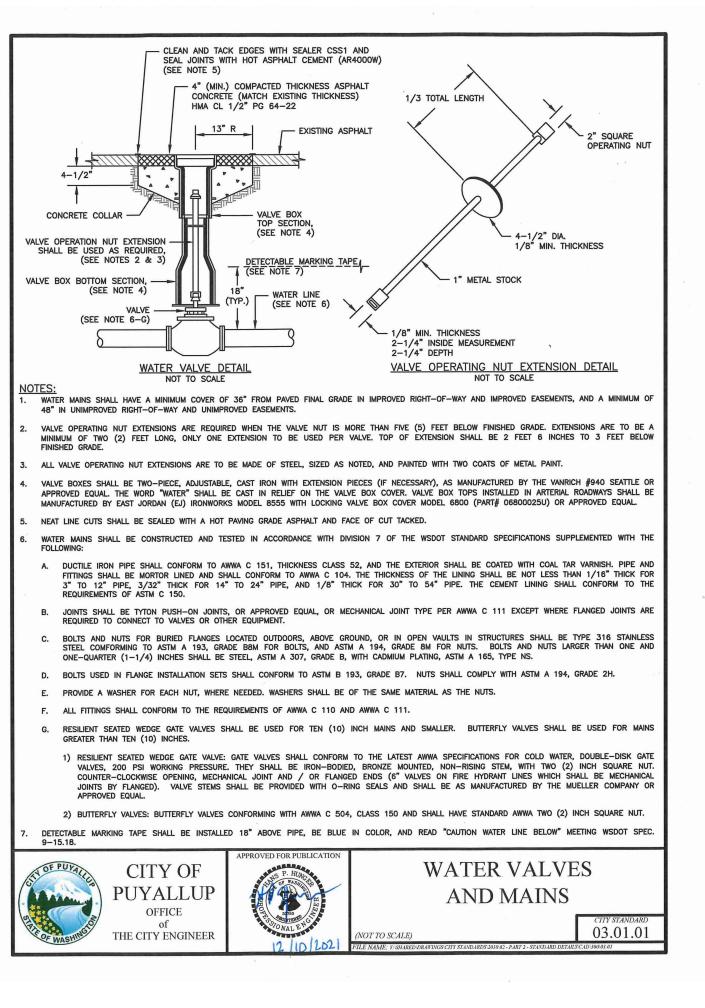


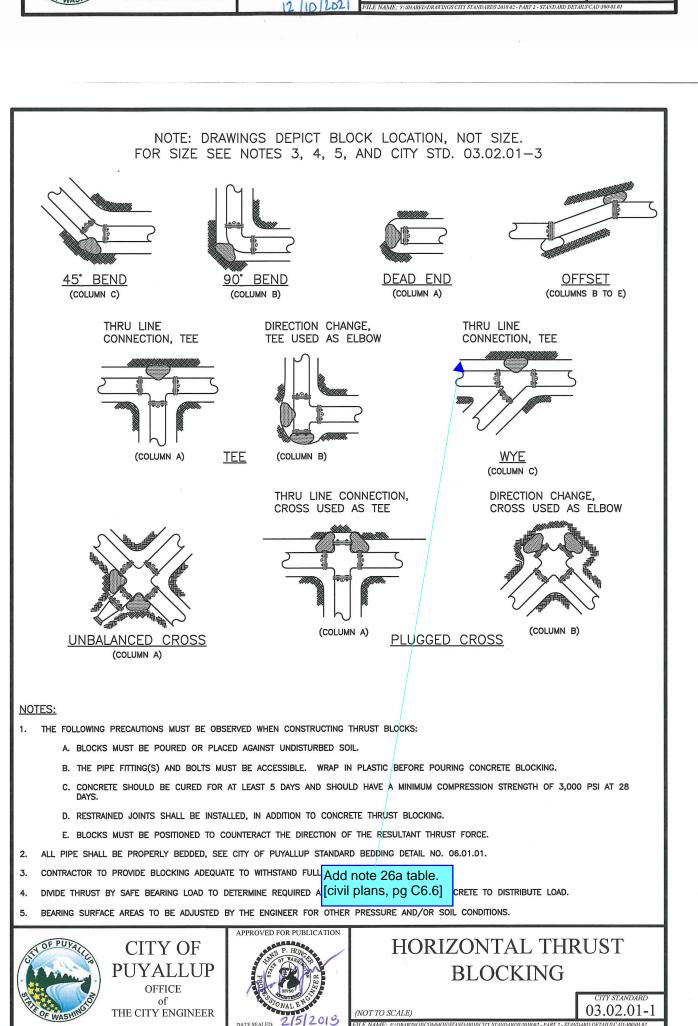
4. THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A(2) ABOVE.

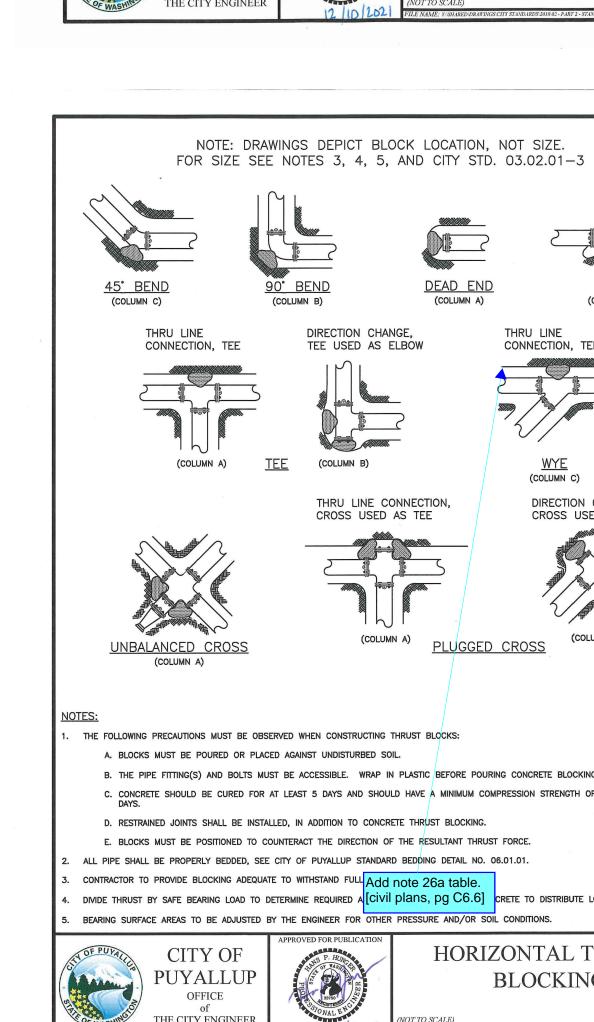
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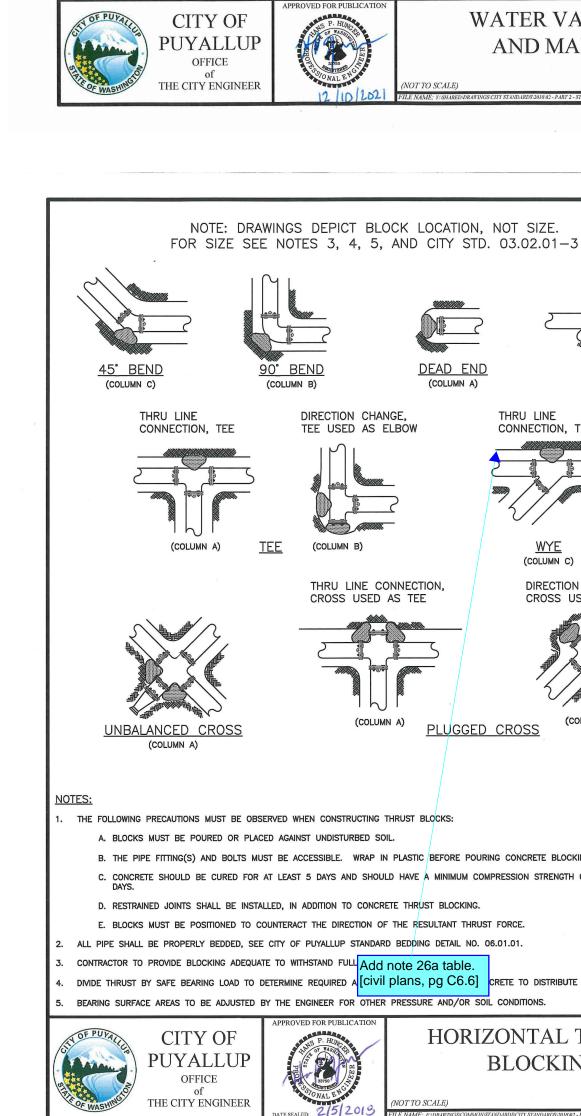
THE CITY ENGINEER

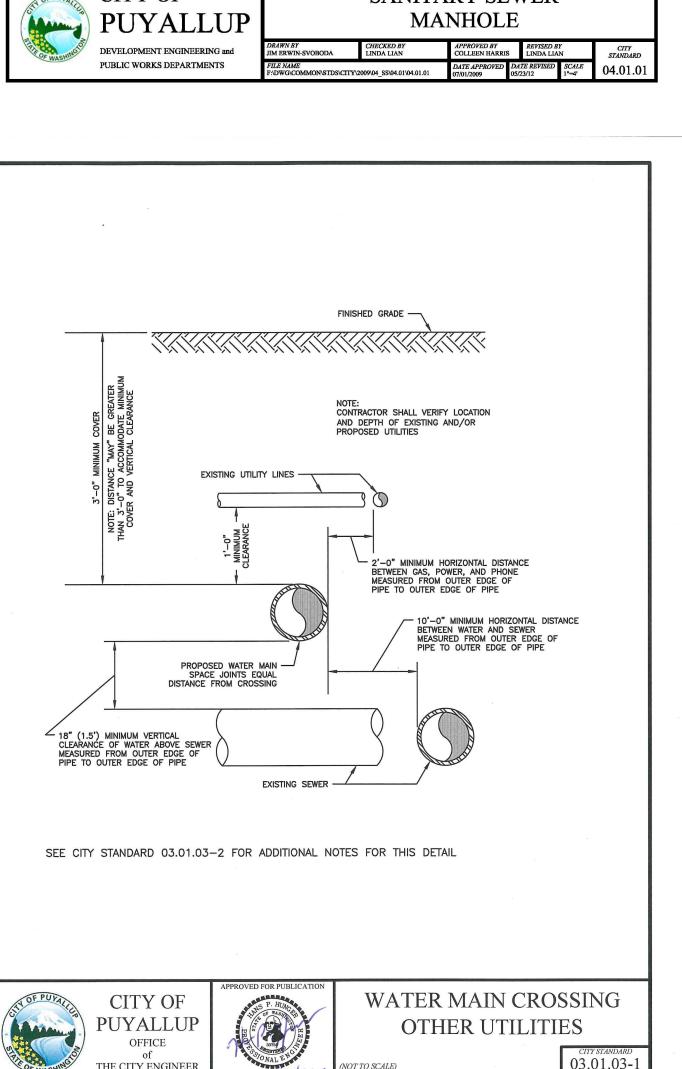


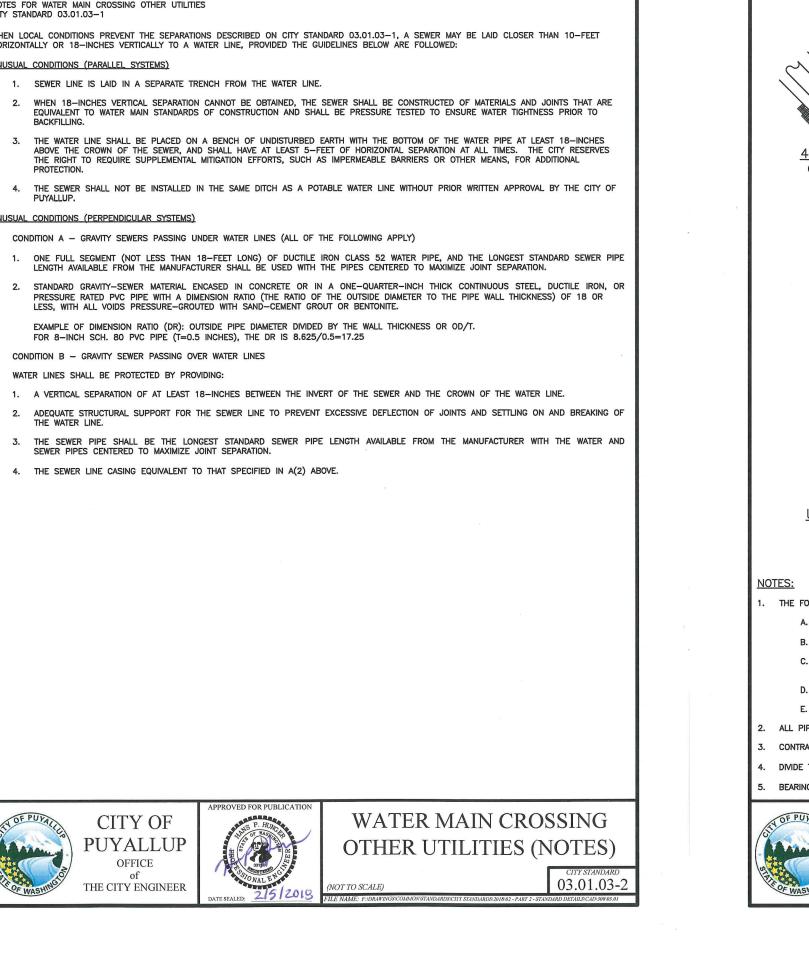


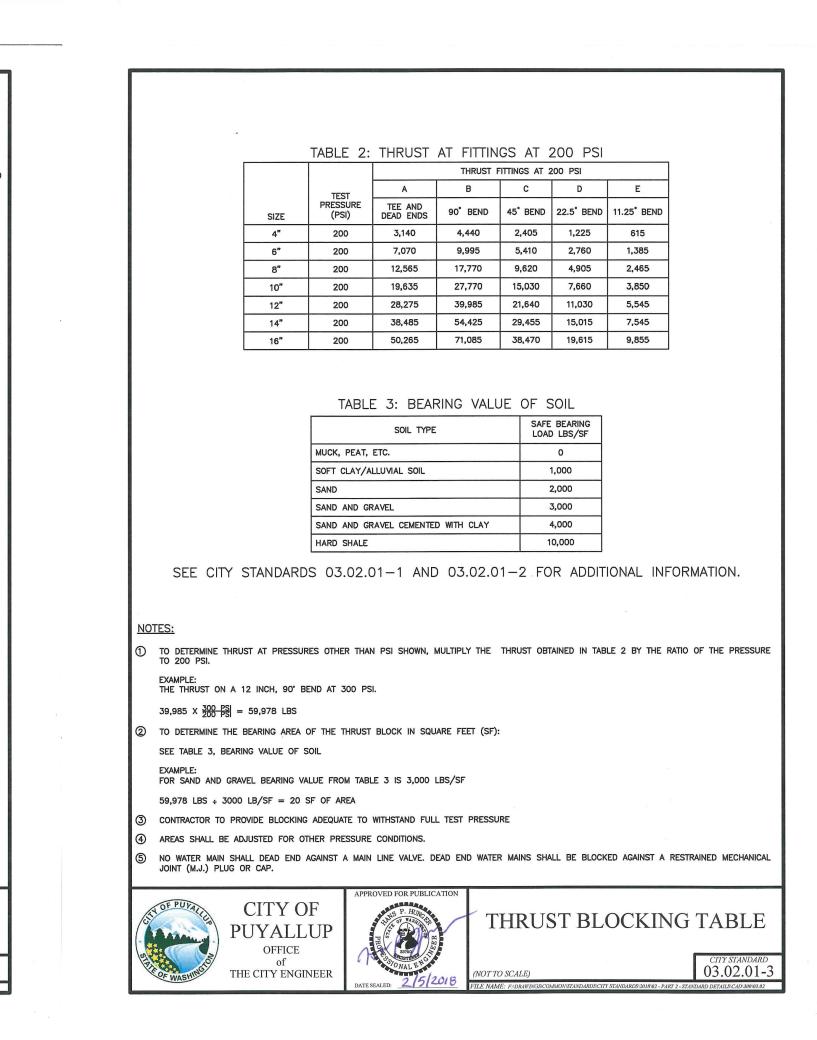








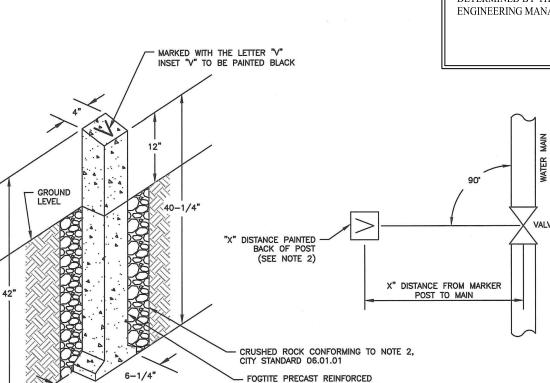




CITY OF PUYALLUP DEVELOPMENT ENGINEERING

APPROVED

NOTE: THIS APPROVAL IS VOID AFTER 80 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

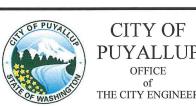


PAINT MARKER POST WITH RUST-OLEUM SAFETY YELLOW #7543 OR APPROVED EQUAL.

THE DISTANCE FROM THE MARKER POST TO THE WATER MAIN SHALL BE PAINTED ON THE BACKSIDE OF THE MARKER POST, IN BLACK WITH A 2'

CONCRETE VALVE MARKER POST OR APPROVED EQUAL (SEE NOTE 1)

- VALVE MARKER POST SHALL BE REQUIRED WHEN EVER THE WATER VALVE IS LOCATED IN AN UNPAVED AREA.
- THE POST WILL ALSO BE REQUIRED FOR BLOW-OFF ASSEMBLIES IN THE SAME CONDITION AS WATER VALVES.
- LOCATION OF VALVE MARKER POSTS SHALL BE OFFSET AT RIGHT ANGLES TO EACH LINE VALVE.



VALVE MARKER POST

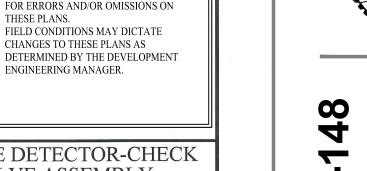
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Drawn By:

Checked by:

Date

Revisions

1 8/19/22 REVISIONS

SANITARY SEWER &

WATER DETAILS

BUI AVE SI A 983

08/19/22

22135.00

E.Rivera

K.Lauzen

Description





NOTES FOR: DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) INSTALLATION CITY STANDARD 03.10.01-1

DDCVA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.

ALL ELECTRICAL SHALL BE INSPECTED BY A WASHINGTON STATE ELECTRICAL INSPECTOR.

THE FDC SHALL BE LOCATED WITHIN 15 FEET OF A FIRE HYDRANT, BUT NOT LESS THAN 10 FEET.

APPROVED EQUAL ON THE VAULT WALL AT THE CONDUIT PENETRATION.

). WATER METER SHALL BE A SENSUS SRII TRPL READING IN 1 CUBIC FEET.

. PIPE SUPPORTS SHALL BE RUST-PROTECTED WITH ALUMINUM PAINT.

CITY OF

OFFICE

BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES

THE DDCVA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING, IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374.

DDCVA IS ALLOWED TO BE LOCATED WITHIN A BUILDING AS APPROVED BY THE FIRE CODE OFFICIAL. WHEN THE DDCVA IS LOCATED WITHIN A

BUILDING, THE FIRE DEPARTMENT CONNECTION (FDC) BALL DRIP SHALL DRAIN TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE.

IN A VAULT INSTALLATION, IF VAULT CANNOT BE DRAINED TO DAYLIGHT, A 1/4 HP SUMP PUMP SHALL BE INSTALLED IN THE SUMP PIT OF THE VAULT. IT SHALL BE WIRED PER WASHINGTON STATE ELECTRICAL CODE, AND INSPECTED BY A STATE ELECTRICAL INSPECTOR. THE DISCHARGE PIPE SHALL BE CONNECTED TO THE NEAREST APPROVED ON—SITE STORM DRAINAGE STRUCTURE.

IN A VAULT INSTALLATION, RUN TWO 3/4" SCHEDULE 80 P.V.C. CONDUITS TO THE VAULT. ONE WILL BE USED FOR A GFCI PROTECTED OUTLET, AND ONE WILL BE FOR LOW VOLTAGE COMING FROM THE FIRE ALARM PANEL. INSTALL AN APPLETON FSCA OR FDCA CAST DEVICE BOX OR

IN A VAULT INSTALLATION, RUN LOW VOLTAGE WIRE INSIDE VAULT AND TO PIV THROUGH SEAL—TIGHT FLEX CONDUIT. CONDUIT SHALL BE SECURELY FASTENED PERPENDICULAR OR HORIZONTALLY TO THE WALLS OF THE VAULT.

5. THE FDC AND PIV SHALL BE A MINIMUM OF 50 FEET FROM A BUILDING, UNLESS APPROVED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL, BUT NEVER LESS THAN 5 FEET FROM BUILDING.

. A DDCVA INSTALLED MORE THAN 5 FEET ABOVE THE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST BE OSHA APPROVED AND MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.

DDCVA OUTSIDE STEM AND YOKE (OS&Y) GATE VALVES, AND THE POST INDICATOR VALVE (PIV), SHALL HAVE SUPERVISED TAMPER SWITCHES.

DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)

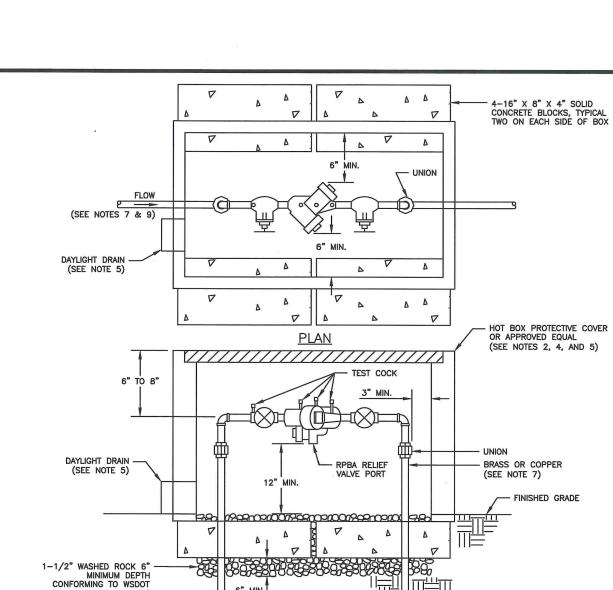
APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.

THE CITY WILL NOT BE RESPONSIBLE



THE RPBA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY

THE PROTECTIVE COVERING FOR THE RPBA, WHICH PROTECTS THE ASSEMBLY FROM FREEZING, MUST INCLUDE A DAYLIGHT DRAIN. THE DRAIN MUST BE INSTALLED ABOVE GROUND OR ABOVE THE MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHER. THE DRAIN MUST BE A MINIMUM OF TWICE THE SIZE OF THE RPBA, TO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT.

THE RPBA SHOULD BE LOCATED IMMEDIATELY DOWN STREAM OF THE METER, AND SHOULD NOT BE INSTALLED INSIDE A BUILDING.

D. AN RPBA INSTALLED MORE THAN FIVE (5) FEET ABOVE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST BE OSHA APPROVED AND MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.

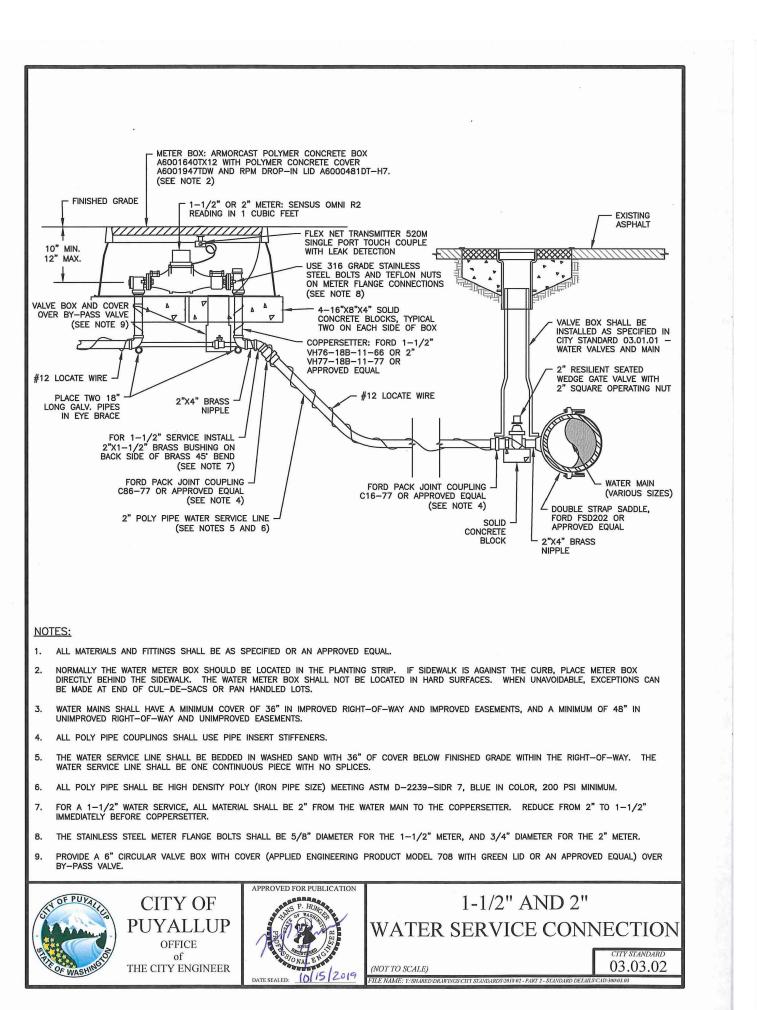
PUYALLU OFFICE



AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION 03.04.02

C6.8

PROPOSED



5" 30° RIGID STORZ ADAPTOR WITH KEYED LOCKING STORZ CAP DO NOT PAINT RED

WRAP GALVANIZED PIPE WITH 3M TAPE OR EQUAL FROM FLANGE TO 6" ABOVE GROUND LEVEL

THRUST BLOCK PER CITY -STANDARD 03.02.01-2

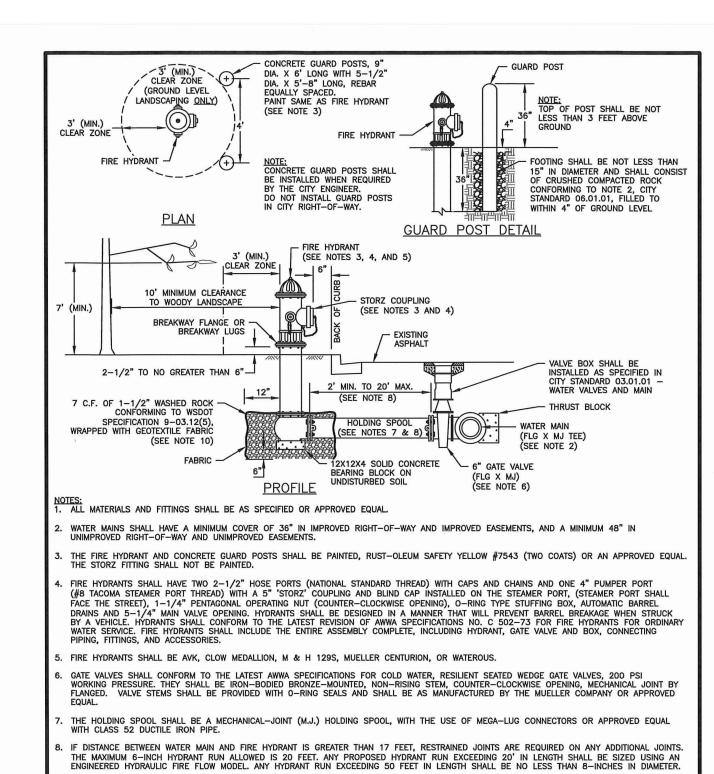
SPRINKLER

IDENTIFICATION PLATECAST DETAIL

PUYALLUP

OFFICE

THE CITY ENGINEER



10. THE CONTRACTOR SHALL PLACE A 6 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA, ENDS TO OVERLAP

OFFICE

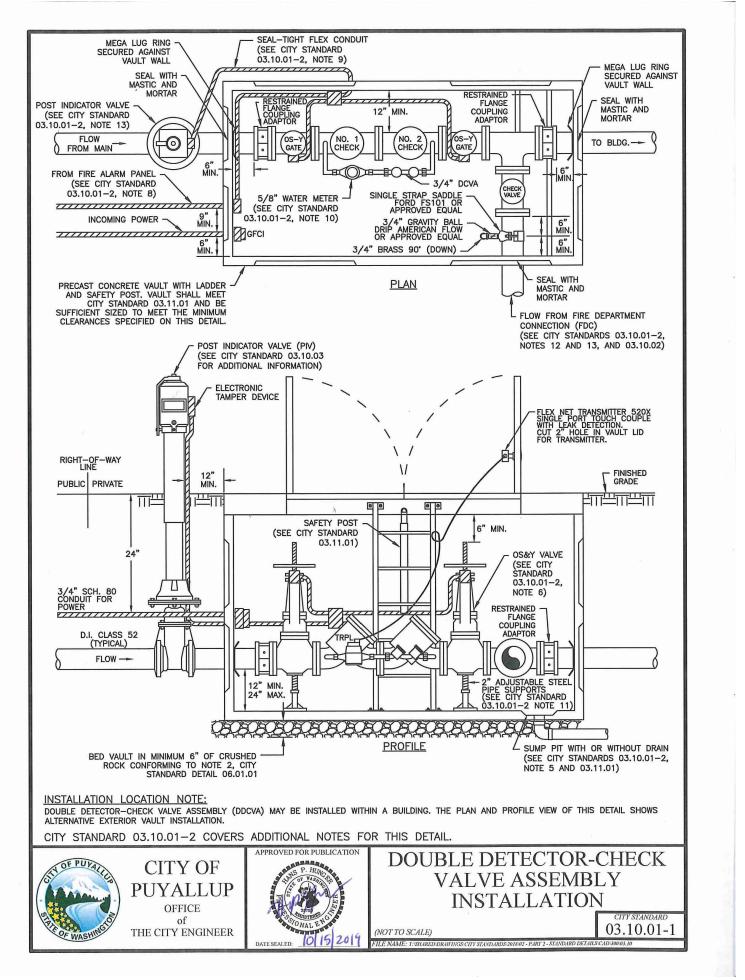
THE CITY ENGINEER

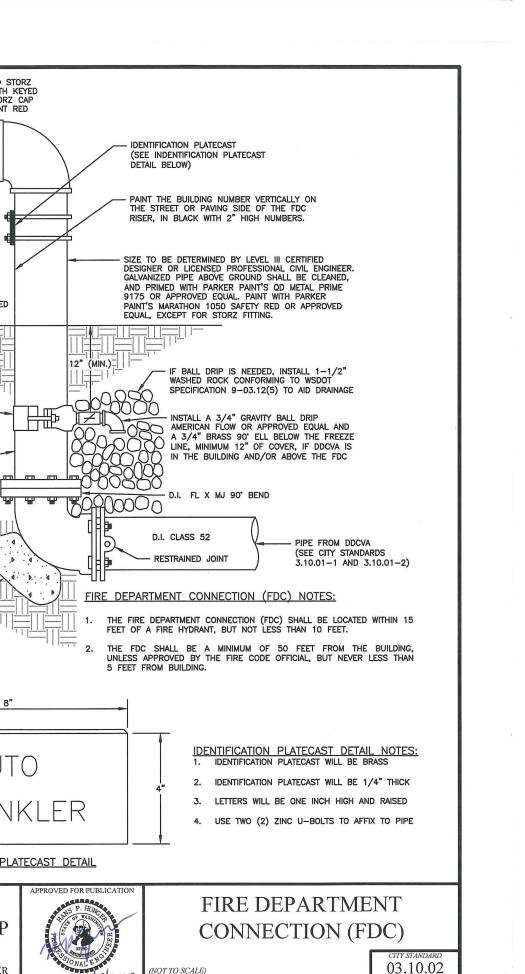
11. A FLUORESCENT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.

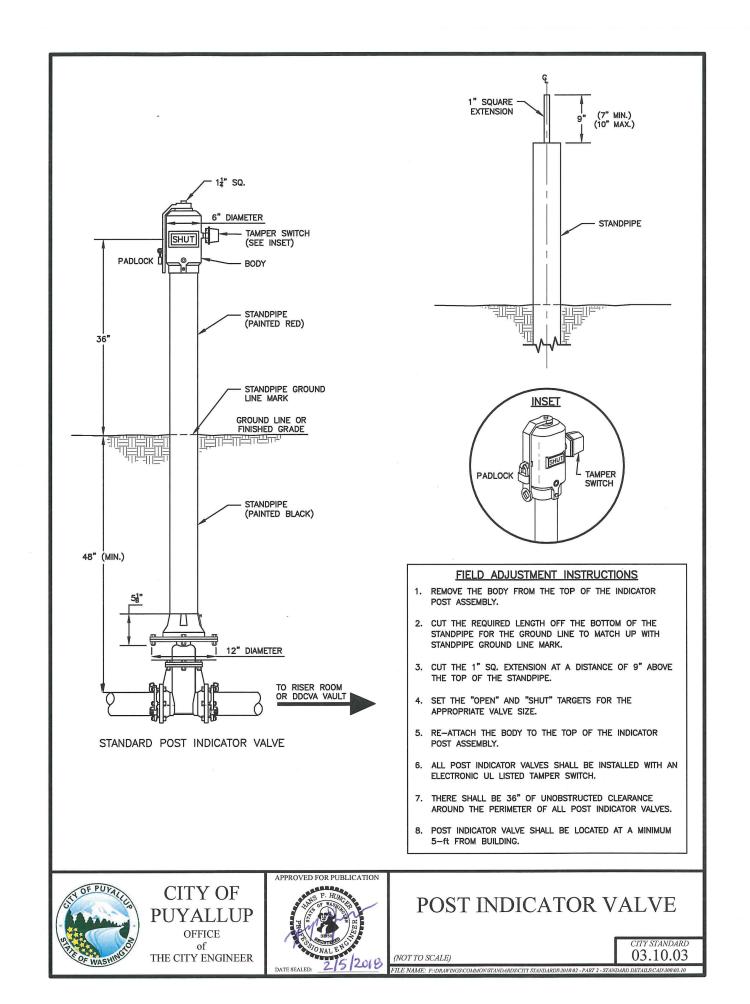
12. A MINIMUM THREE FOOT (3') RADIUS UNOBSTRUCTED CLEAR ZONE (WORK AREA) SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS, ADDITIONALLY,

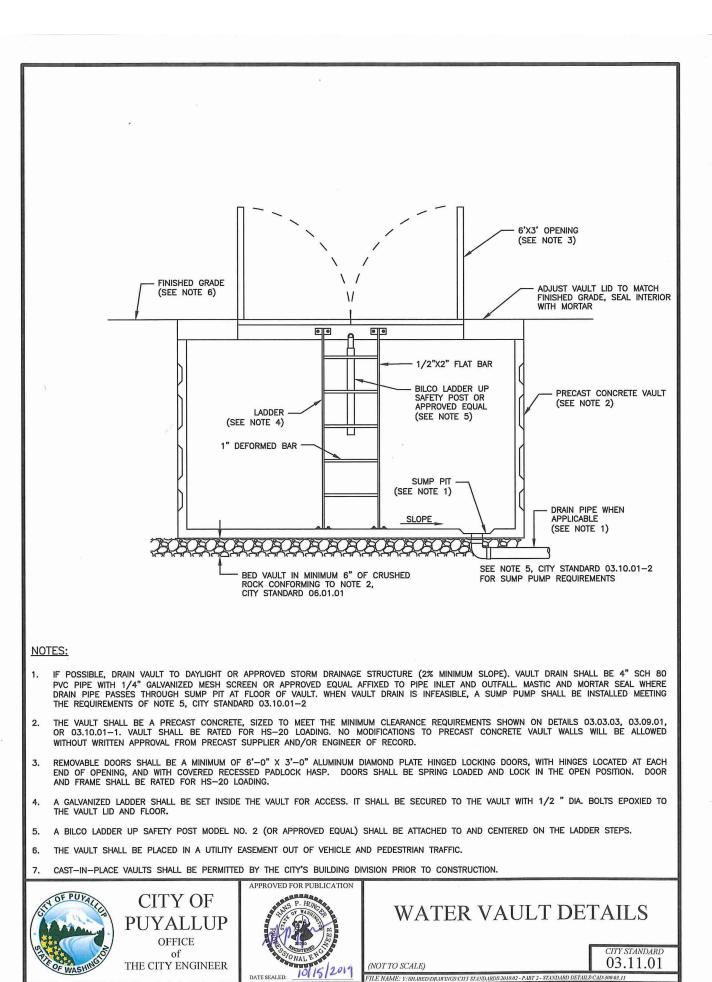
NO WOODY LANDSCAPE SHALL BE PLANTED WITHIN TEN FEET (10') OF ANY FIRE HYDRANT. OVERREACHING BRANCHES OF TREES ADJACENT TO HYDRANTS SHALL HAVE A MAINTAINED VERTICAL CLEARANCE OF SEVEN (7') FEET ABOVE FINISHED GRADE OF THE FIRE HYDRANT.

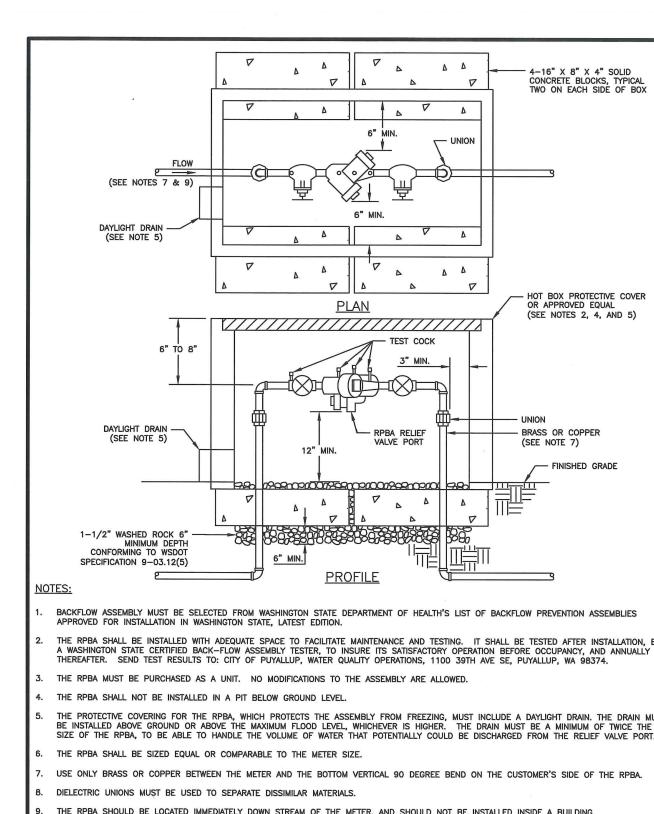
FIRE HYDRANT ASSEMBLY











SCALE: 1" = 30' - 0"

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PIERC STATE

Date Description 2 10/25/22

SITE PLAN -OVERALL

L1.00



TREE PROTECTION PLAN

[/] SCALE: 1" = 40' - 0"

TRUE NORTH

EXISTING TREE LEGEND

EXISTING DECIDUOUS TREE TO BE PROTECTED(

CRITICAL ROOT ZONE (RADIUS OF ONE FOOT PER INCH TREE DIAMETER, MEASURED AT DSH)

EXISTING EVERGREEN TREE TO BE PROTECTED

CRITICAL ROOT ZONE (RADIUS OF ONE FOOT PER INCH TREE DIAMETER, MEASURED AT DSHI

TREE PROTECTION FENCE



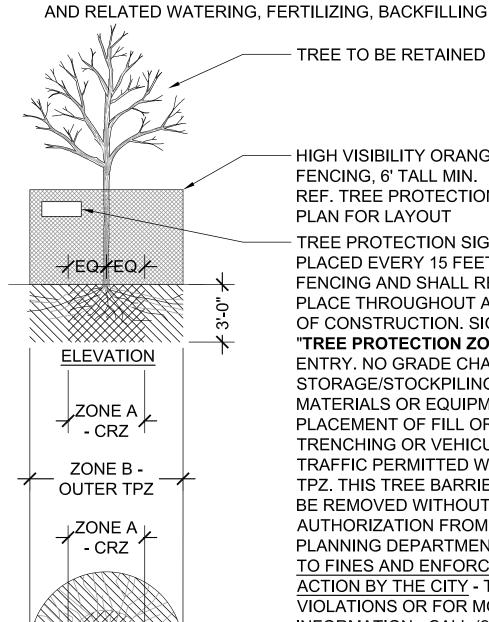
EXISTING TREE TO BE SALVAGED OR DEMOLISHED. REF. L1.02 FOR TREE SALVAGE SCHEDULE IDENTIFYING TREES FOR RE-USE IN LANDSCAPE.

(XX) ARBORIST TAG NUMBER, REF. ARBORIST REPORT AND TABLE OF TREES FOR MORE INFORMATION ABOUT TAGGED TREES "NT" = NOT TAGGED

TREE PROTECTION NOTES:

NOTE: ALL REQUIRED TREE PROTECTION MEASURES MUST BE INSTALLED AND APPROVED BY ARBORIST PRIOR TO COMMENCEMENT OF DEMOLITION.

- 1. INSTALL 3" DEPTH OF COARSE WOOD CHIPS OVER ENTIRE TREE PROTECTION ZONE (TPZ) PRIOR TO INSTALLING PERIMETER PROTECTION FENCING. WATER GROUND DEEPLY BEFORE PLACING AND KEEP MULCH MOIST. DO NOT PILE MULCH DIRECTLY AGAINST
- VEHICULAR MOVEMENT AND HEAVY EQUIPMENT ARE STRICTLY PROHIBITED WITHIN TPZ. PEDESTRIANS ARE TO BE EXCLUDED EXCEPT AS ABSOLUTELY NECESSARY.
- 3. CONSTRUCTION STORAGE IS PROHIBITED WITHIN ENTIRE TPZ INCLUDING CONSTRUCTION SUPPLIES, EQUIPMENT, MATERIALS, STOCKPILES AND DEBRIS.
- 4. DISPOSAL OF MATERIALS OR FLUIDS OF ANY KIND IS PROHIBITED WITHIN TPZ.
- CONTRACTOR MUST RETAIN A CERTIFIED ARBORIST TO INSPECT AND PROVIDE SPECIFIC DIRECTION ON PRUNING BRANCHES AND ROOTS, AND RELATED WATERING, FERTILIZING, BACKFILLING AND MULCHING.



HIGH VISIBILITY ORANGE FENCING, 6' TALL MIN.

REF. TREE PROTECTION PLAN FOR LAYOUT TREE PROTECTION SIGNS TO BE PLACED EVERY 15 FEET ALONG THE FENCING AND SHALL REMAIN IN PLACE THROUGHOUT ALL PHASES OF CONSTRUCTION. SIGNS TO READ "TREE PROTECTION ZONE (TPZ) NO ENTRY. NO GRADE CHANGES, STORAGE/STOCKPILING OF MATERIALS OR EQUIPMENT, PLACEMENT OF FILL OR TOP SOIL TRENCHING OR VEHICULAR/FOOT TRAFFIC PERMITTED WITHIN THE TPZ. THIS TREE BARRIER SHALL NOT BE REMOVED WITHOUT **AUTHORIZATION FROM PUYALLUP** PLANNING DEPARTMENT - SUBJECT TO FINES AND ENFORCEMENT **ACTION BY THE CITY - TO REPORT** VIOLATIONS OR FOR MORE INFORMATION - CALL (253 864-4165" PER CITY OF PUYALLUP STANDARDS

DEFINITIONS

TREE PROTECTION ZONE (TPZ): AREA SURROUNDING INDIVIDUAL TREES OR GROUPS OF TREES TO REMAIN DURING CONSTRUCTION, AND DEFINED AS FOLLOWS: RADIAL DISTANCE MEASURED FROM THE TRUNK FACE OF A TREE AT THE RATE OF 1 FOOT OF PROTECTION PER ONE INCH OF CALIPER SIZE MEASURED AT BREAST HEIGHT.

CRITICAL ROOT ZONE (CRZ): INNER HALF OF TPZ EXTENDING RADIALLY FROM TRUNK.

DBH (DIAMETER AT BREAST HEIGHT):TREE DIAMETER MEASURED AT 4.5 FEET ABOVE GROUND.

ZONE A (CRITICAL ROOT ZONE - CRZ)

- 1. NO DISTURBANCE WHATEVER ALLOWED WITHOUT SITE-SPECIFIC ARBORIST INSPECTION AND APPROVAL OF METHODS TO PREVENT/MINIMIZE ROOT DAMAGE.
- 2. CUT ROOTS CLEAN. SEVER ROOTS LARGER THAN 2" DIAMETER ONLY AFTER ARBORIST INSPECTS, APPROVES THEN DIRECTS PRUNING. COVER CUT ENDS TO KEEP MOIST UNTIL BACKFILLED.
- 3. TUNNELING IS REQUIRED TO INSTALL LINES 3'-0" BELOW GRADE OR DEEPER. HIGH PRESSURE WATER EXCAVATION IS PROHIBITED WITHIN TOP 3 FT. OF SOIL WHERE ROOTS ARE CONCENTRATED.

ZONE B (OUTER TPZ)

- 1. EXCAVATION MUST LEAVE AT LEAST 2/3 OF OUTER TPZ UNDISTURBED.
- 2. ALL TRENCHING MUST BE DONE BY HAND OR USING AIR EXCAVATION TOOL. SPOILS NOT TO BE PILED IN TPZ; BACKFILL IMMEDIATELY.

SITE PERMIT SET

CITY OF PUYALLUP **Planning Division**

Approved Landscape Plan

(253) 864-4165

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MANAGER, DESIGNEE, OR PROJECT

erification required. Failure to install top soil and root parriers in accordance with city standards may result in

NOTE: If street trees are required, Call Planning

Root Barriers are required around street trees in

0

Date:	05/05/22
Job No.:	22135.00
Drawn By:	SC
Chacked by:	VS

Revisions			
#	Date	Description	
1	8/19/22	PERMIT	
		RESUBMITTAL	
2	10/25/22	PERMIT	
		RESUBMITTAL	

TREE **PROTECTION** PLAN

L1.01

MATCHLINE - SEE L1.11

STATE

22135.00 Checked by:

Revisions # Date Description 2 10/25/22

SITE PLAN -NORTH

L1.10

RAIN GARDEN + BIORETENTION PLANTING AREA

DESCRIPTION

PLANTING AREA

SITE PLAN - NORTH

PLANTING LEGEND

SCALE: 1" = 20' - 0"

SYMBOL

REF. SHEET L1.11 FOR MATERIALS AND FURNISHING LEGENDS

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CITY OF PUYALLUP **Planning Division Approved Landscape Plan** (253) 864-4165

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NORTH



Date

SITE PLAN -SOUTH

L1.11



PLANTING LEGEND

DESCRIPTION PLANTING AREA

PLANTING AREA RAIN GARDEN + BIORETENTION

MATERIALS LEGEND

KEY	SYMBOL	DESCRIPTION
1	<i>Α</i> Δ Δ	CONCRETE PAVING - SANDBLAST FINISH. REF. CIVIL FOR SECTION
2>		CRUSHED ROCK SURFACING
3>	\(\psi \)	GRASS PAVE - REF. CIVIL
4	4	CONCRETE PAVING - EXPOSED AGGREGATE FINISH. REF. CIVIL FOR SECTION
5	20000	VEHICULAR CONCRETE PAVING - SANDBLAST FINISH. REF. CIVIL FOR SECTION
6		FLUSH CURB
7	λΔ · · · Δ · · · · Δ · · · · · Δ	CONCRETE PAVING - BROOM FINISH. REF. CIVIL FOR SECTION
8		VEHICULAR CONCRETE PAVING - EXPOSED AGGREGATE FINISH. REF. CIVIL FOR SECTION
9>		CAST IN PLACE CONCRETE PAVEMENT BAND
10>		CRUSHED ROCK MAINTENANCE EDGE
<u> </u>		RIVER ROCK SWALE
12>		STEPPING STONE WATER CHANNEL
(L-A)		NURSE LOG
(L-B)		NURSE ROOTWAD
(1-C)	000	NURSE STUMP
13>		LANDSCAPE BOULDERS - REF. BOULDER SCHEDULE

FURNISHING LEGEND

KEY	SYMBOL	DESCRIPTION
⟨TB⟩>		TIMBER BENCH - COLUMBIA CASCADE TIMBERFORM
(PS)>>		PEBBLE STOOL - TOURNESOL
(MF)>>		MOVEABLE CAFE TABLES AND CHAIRS - FORMS + SURFACES 'FACTOR'
$\langle B \rangle \Rightarrow$	•	BOLLARD - TOURNESOL 'B-2', REMOVABLE MOUNTING
(BS)>>		BOULDER SEAT - REF. BOULDER SCHEDULE
$\langle BR \rangle \rightarrow$	1	BICYCLE RACK - SPORT WORKS 'TOFINO'
⟨TR⟩→	0	TRASH RECEPTACLES - LANDSCAPE FORMS 'CHASE PARK'
$\langle F \rangle \rightarrow$		ARCHITECTURAL FENCE - OMEGA UNIK PERFORATED PANELS
$\langle G \rangle \!\! >$		GATES - OMEGA UNIK

SEE L5.14 FOR PLANTING SCHEDULE

CITY OF PUYALLUP
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Staff:
Date:

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PIERCE COLLEGE PUYALLU NEW STEM BUILDING

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Drawn By:	SC
Checked by:	VS

Revisions		
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1	8/19/22	PERMIT
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2	10/25/22	PERMIT
		RESUBMITTAL

PLANTING PLAN -NORTH

L5.11

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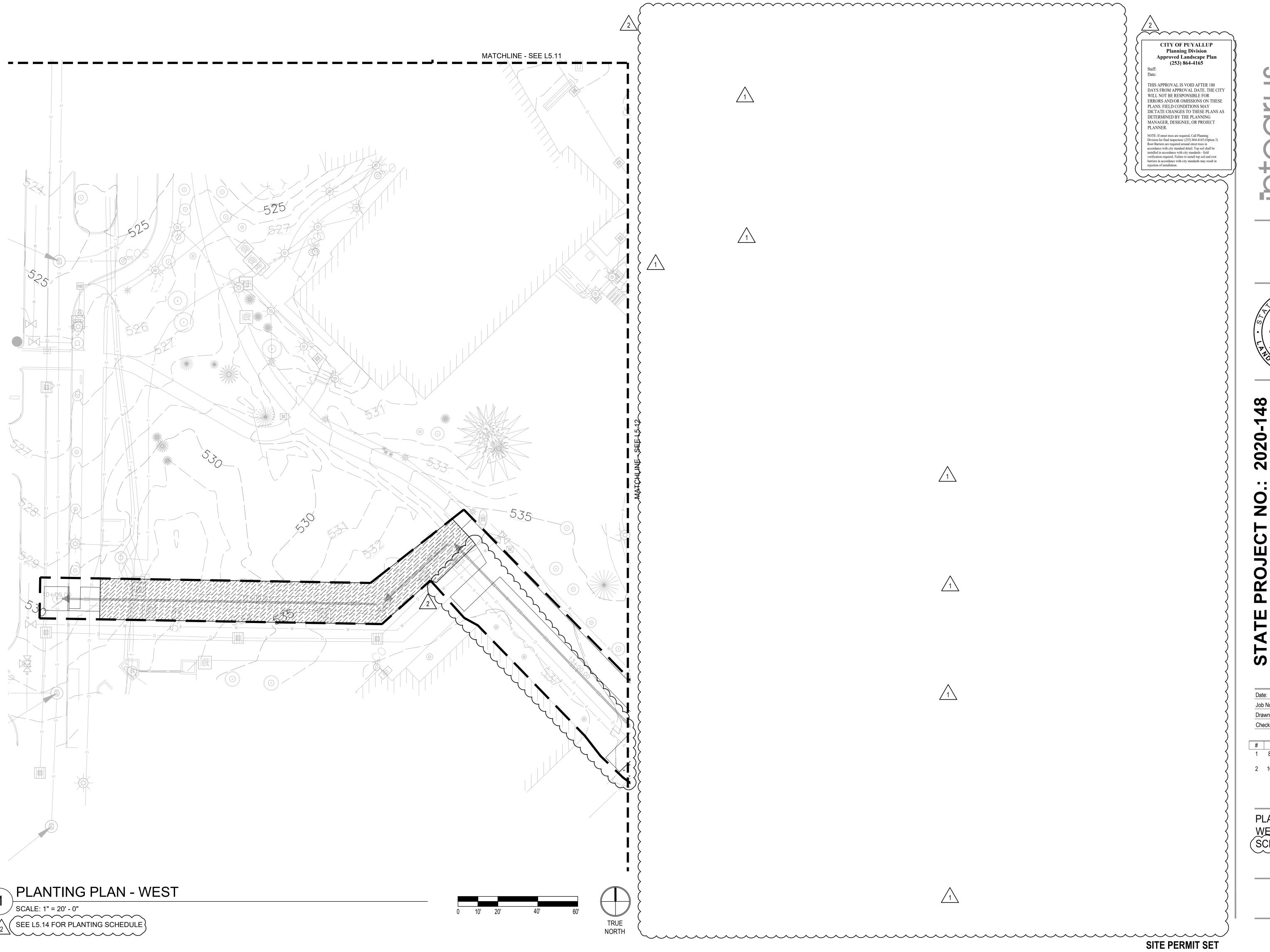


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1	8/19/22	PERMIT		
		RESUBMITTAL		
2	10/25/22	PERMIT		
		RESUBMITTAL		

PLANTING PLAN -SOUTH

L5.12





05/05/22
22135.00
SC
VS

Revisions						
#	Date	Descriptio				
1	8/19/22	PERMIT				
		RESUBMITT				
2	10/25/22	PERMIT				
		RESUBMITT				

PLANTING PLAN -WEST, PLANTING SCHEDULE

L5.13

PLANT S

SCHEDULE								
	CODE	QTY	BOTANICAL NAME		COMMON NAME		CONT	
	AC	7	ACER CIRCINATUM	VINE MAPLE		MULTI-STEM 9`-10` HT.		
	AS	5	AMELANCHIER ALNIFOLIA	SERVICEBERRY		1.5" CAL.		
	CW	2	CERCIS OCCIDENTALIS	WESTERN REDBUD MU	JLTI-TRUNK	MULTI-STEM 9`-10` HT.		
	CL4	2	CORNUS KOUSA X NUTTALLII `KN4	II `KN4-43` STARLIGHT KOUSA DOGWOOD)GWOOD	2" CAL.	
	СМ	2	CORNUS MAS	CORNELIAN CHERRY		1.5" CAL.		
	LE	10	LIRIODENDRON TULIPIFERA 'JFS-C	EMERALD CITY TULIP I	POPLAR	2" CAL.		
	PV	15	PARROTIA PERSICA 'VANESSA' VANESSA PERSIAN PARROTIA		RROTIA	2" CAL.		
	РО	3	PICEA OMORIKA		SERBIAN SPRUCE		6`-8` HT.	
	QG	3	QUERCUS GARRYANA		OREGON WHITE OAK		3" CAL.	
	RP	3	RHAMNUS PURSHIANA		CASCARA		2" CAL.	
	MEADO APPLICA LAY OU' MIX 75 E SCATTE BRODIA CAMASS	ATION RATION RAT	NG REF. SPEC. FOR SPECIES AND ATE. BROADCAST SEED. E CONTAINER STOCK PER PLAN. F EACH TYPE LISTED BELOW AND AIRIE PLANTING AREAS. GANS / HARVEST BRODIAEA HTLINII / GREAT CAMAS MASH / SMALL CAMAS IA CONGESTUM / OOKOW	9,265 SF	BULBS BULBS BULBS BULBS			
	ALL ARE RESTOF ASSUMI REMOV ACER C MAHON MAHON OXALIS POLYST PSEUDO RIBES S	EAS AFFE RED. E 1:1 TRE EIRCINAT IA AQUIF IA REPEN OREGAN TICHUM N OTSUGA	OR RESTORATION PLANTING ECTED BY UTILITY ROUTING TO BE EE REPLACEMENT FOR TREES ILITY CORRIDOR. UM / VINE MAPLE OLIUM / OREGON GRAPE NS / CREEPING MAHONIA NA / REDWOOD SORREL MUNITUM / WESTERN SWORD FERN MENZIESII / DOUGLAS FIR EUM / RED FLOWERING CURRANT ATUM / EVERGREEN HUCKLEBERRY	205 576 819 256 13 29	MULTI-STEM 9`-10` HT. #1 #1 4"POT #1 6`-8` HT. #5 #5	1:1 REPLACEM 20% @ 36" oc 25% @ 24" oc 20% @ 18" oc 25% @ 36" oc 1:1 REPLACEM 5% @ 72" oc 5% @ 48" oc		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ALL ARI REGRAI	DING TO	ATION ECTED BY UTILITY ROUTING AND BE RESTORED. WN IN EXISTING LAWN AREAS.	8,711 SF				

CONTAINER STOCK	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT
<u>○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ </u>	AP	199	ADIANTUM PEDATUM	NORTHERN MAIDENHAIR FERN	#1
	AU	6	ARBUTUS UNEDO	STRAWBERRY TREE SHRUB	#2
⊙	AM3	64	ARCTOSTAPHYLOS X `PACIFIC MIST`	PACIFIC MIST MANZANITA	#1
•	AC2	236	ASARUM CAUDATUM	WILD GINGER	#1
⊙	BS	133	BLECHNUM SPICANT	DEER FERN	#1
*	CN	488	CALAMAGROSTIS NUTKAENSIS	PACIFIC REED GRASS	#1
+	СР	75	CAREX PACHYSTACHYA	CHAMISSO SEDGE	#1
*	CS	73	CAREX STIPATA	AWL-FRUITED SEDGE	#1
\odot	DP	9	DARMERA PELTATA	INDIAN RHUBARB	#2
•	GS	19	GAULTHERIA SHALLON	SALAL	#2
O	НМ	128	HEUCHERA MAXIMA	ISLAND ALUM ROOT	#1
	II	53	IRIS DOUGLASIANA	DOUGLAS IRIS	#1
⊕	Ю	17	IRIS TENAX	OREGON IRIS	#1
*	JP	61	JUNCUS PATENS	CALIFORNIA GRAY RUSH	#1
©	LL	34	LIMONIUM LATIFOLIUM	SEA LAVENDER	#1
O	MN	102	MAHONIA NERVOSA	OREGON GRAPE	#2
•	OR	1,504	OXALIS OREGANA	REDWOOD SORREL	4"POT
⊙	PR	55	PENSTEMON RYDBERGII	RYDBERG'S PENSTEMON	#1
\odot	PM	427	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	#1
O	RM	51	RHAMNUS CALIFORNICA 'MOUND SAN BRUNO'	MOUND SAN BRUNO COFFEEBERRY	#5
\bigoplus	RS	17	RIBES SANGUINEUM	RED FLOWERING CURRANT	#5
•	SI	187	SPIRAEA BETULIFOLIA LUCIDA	BIRCHLEAF SPIREA	#2
©	ТО	219	TRILLIUM OVATUM	COAST TRILLIUM	#1
	VO	18	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	#5
CONTAINER STOCK - PRAIRIE	CODE AM2	<u>QTY</u> 71	BOTANICAL NAME ACHILLEA MILLEFOLIUM	COMMON NAME COMMON YARROW	<u>CONT</u> #1
8	ES	43	ERIGERON SPECIOSUS	SHOWY FLEABANE	#1 #1
0	EL2	66	ERIOPHYLLUM LANATUM	WOOLLY SUNFLOWER	#1
œ	II2	26	IRIS DOUGLASIANA	DOUGLAS IRIS	#1
Θ.	LN	31	LOMATIUM NUDICAULE	BARESTEM BISCUITROOT	#1
€	PR2	31	PENSTEMON RYDBERGII	RYDBERG'S PENSTEMON	#1
⊚	PG	41	POTENTILLA GRACILIS	SLENDER CINQUEFOIL	#1
⊕	PN	30	PRUNELLA VULGARIS LANCEOLATA	LANCE SELF-HEAL	#1
⊚	RO2	16	RANUNCULUS OCCIDENTALIS	WESTERN BUTTERCUP	#1
₩	SM2	34	SIDALCEA MALVIFLORA	CHECKERBLOOM	#1
∞	WA	8	WYETHIA ANGUSTIFOLIA	MULE'S EARS	#1

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2020 T NO. GE PI M BUILE h AVE SE WA 98374 **PROJECT** STATE PIERCI

05/05/22 22135.00 Checked by:

Revisions # Date Description
1 8/19/22 PERMIT RESUBMITTAL 2 10/25/22

PERMIT RESUBMITTAL

PLANTING PLAN -WEST, PLANTING SCHEDULE

L5.13

SITE PERMIT SET