

**UTILITIES**

WATER	CITY OF PUYALLUP - PH: 253-841-5494
SANITARY SEWER	CITY OF PUYALLUP - PH: 253-841-5481
STORM SEWER	CITY OF PUYALLUP - PH: 253-841-5481
ELECTRICITY/GAS	PUGET SOUND ENERGY - PH: 253-841-6263
TELEPHONE	CENTURY LINK - PH: 1-800-244-1111

**ARCHITECT**  
 INTEGRUS ARCHITECTURE  
 117 SOUTH MAIN STREET, SUITE 100  
 SEATTLE, WASHINGTON 98104  
 PH: 206.628.3137  
 CONTACT: SARA WILDER, AIA  
 EMAIL: swilder@integrusarch.com

**CIVIL ENGINEER:**  
 AHBL, INC.  
 2215 NORTH 30TH STREET, SUITE 300  
 TACOMA, WASHINGTON 98403  
 PH: 253.383.2422  
 FAX: 253.383.2572  
 CONTACT: WILLIAM FIERST, P.E.  
 PRINCIPAL  
 EMAIL: wfierst@ahbl.com

**CIVIL ENGINEER (SEWER & WATER):**  
 PH CONSULTING  
 913 MLK Jr. WAY  
 SUITE A  
 TACOMA, WASHINGTON 98405  
 PH: 253.864.5865  
 FAX: 253.297.8645  
 CONTACT: KEN LAUZEN, P.E.  
 EMAIL: ken@phtraffic.com

**CLIENT**  
 PIERCE COLLEGE PUYALLUP  
 1601 39TH AVENUE SE  
 PUYALLUP, WA 98374  
 PH: (253) 964-6729  
 CONTACT: GUS LIM

STATE OF WASHINGTON DEPARTMENT OF ENTERPRISE SERVICES  
 1500 JEFFERSON STREET  
 OLYMPIA, WA 98501  
 PH: (360) 239-7372  
 CONTACT: CHRISTOPHER GIZZI

**LANDSCAPE ARCHITECT**  
 SITEWORKSHOP  
 3800 WOODLAND PARK AVENUE N  
 TACOMA, WASHINGTON 98103  
 CONTACT: VINITA SIDHU  
 EMAIL: vinitas@siteworkshop.com

**SURVEYOR**  
 ESM CONSULTING ENGINEERS  
 33400 8TH AVE S, #205  
 FEDERAL WAY, WA 98003  
 PH: 253.838.6113  
 CONTACT: ZACHARY T. LENNON, P.L.S.  
 EMAIL: zach.lennon@escivil.com

**EXISTING LEGEND:**

- ▲ SET NAIL AND WASHER
- SET REBAR AND CAP
- BOLLARD
- SIGN AS NOTED
- ◇ FLAG POLE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- STORM CATCH BASIN
- STORM MANHOLE
- ROOF DRAIN
- GAS METER
- GAS VALVE
- ▲ POWER TRANSFORMER
- UTILITY POWER POLE
- ELECTRICAL VAULT
- LUMINAIRE
- TELEPHONE RISER
- TELEPHONE VAULT
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- POST INDICATOR VALVE
- WATER METER
- WATER VALVE
- WATER VAULT
- IRRIGATION BOX
- ★ CONIFEROUS TREE
- DECIDUOUS TREE
- D --- STORM LINE
- S --- SANITARY SEWER LINE
- G --- GAS LINE
- P --- ELECTRICAL LINE
- T --- COMMUNICATIONS LINE
- W --- WATER LINE
- IR --- IRRIGATION PER RECORD DRAWING
- X --- FENCE
- CONCRETE
- ASPHALT
- GRASSPAVE
- XXX --- CONTOUR MAJOR INTERVAL
- XXX --- CONTOUR MINOR INTERVAL
- PROPERTY / RIGHT-OF-WAY LINE

**HORIZONTAL DATUM**  
 WASHINGTON COORDINATE SYSTEM (WCS) - SOUTH ZONE (BASED UPON NAD 83/2011) UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN) IN DECEMBER OF 2021.

**VERTICAL DATUM**  
 NAVD 88 UTILIZING THE WASHINGTON STATE REFERENCE NETWORK (WSRN) IN DECEMBER OF 2021.

**AUTOCAD FILE**

AN AUTOCAD DRAWING FILE IS AVAILABLE TO ASSIST WITH SITE LAYOUT. PLEASE NOTE THAT ELECTRONIC FILES ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE AND SHALL NOT REPLACE NOR BE USED TO SUBSTITUTE THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT LAYOUT ACCORDING TO CONTRACT DOCUMENTS AND COST FOR ELECTRONIC AUTOCAD FILES.  
 PHONE: (253) 383-2422  
 FAX: (253) 383-2572

**TRENCH NOTE**

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND AHBL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

**FILL SPECIFICATION**

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

**UTILITY NOTE**

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. AHBL ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

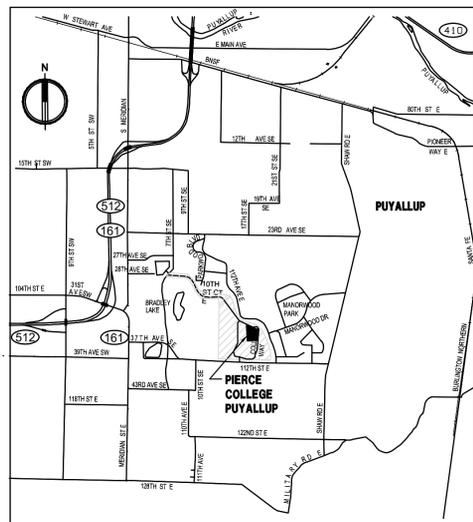
**TOPOGRAPHIC NOTE**

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, AHBL CANNOT ENSURE ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

**EARTHWORK DATA**

APPROX. PROJECT SITE CUT:	2200 CY
APPROX. PROJECT SITE FILL:	1260 CY
APPROX. PROJECT SITE NET:	940 CY CUT

NOTE: THE ABOVE QUANTITIES ARE ESTIMATES ONLY INTENDED TO THE PERMITTING PROCESS AND ARE NOT INTENDED TO BE USED BY THE CONTRACTOR FOR BIDDING PURPOSES. THE CONTRACTOR SHALL MAKE THEIR OWN EARTHWORK DETERMINATION.



**VICINITY MAP**  
 ADDRESS: PIERCE COLLEGE PUYALLUP, 1601 39TH AVENUE SE, PUYALLUP, WA 98374  
 PARCEL: 0419034018

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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 CITY ENGINEER

City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**CONSTRUCTION SEQUENCE**

- ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING WITH CITY OF PUYALLUP AND OBTAIN REQUIRED PERMITS.
- STAKE/FLAG CLEARING AND CONSTRUCTION LIMITS.
- INSTALL CONSTRUCTION ENTRANCE.
- CONSTRUCT ALL TEMPORARY EROSION CONTROL BMPS ACCORDING TO THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) PLAN. INSTALL INLET SEDIMENT PROTECTION IN EXISTING CATCH BASINS.
- CONSTRUCT PROTECTION DEVICES FOR CRITICAL AREAS AND SIGNIFICANT TREES PROPOSED FOR RETENTION.
- SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY OF PUYALLUP.
- DEMOLISH EXISTING SITE FEATURES INDICATED FOR REMOVAL.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF PUYALLUP STANDARDS AND MANUFACTURER RECOMMENDATIONS.
- ROUGH GRADE AND FILL SITE. ALL GRADING SHALL BE DONE IN CONFORMANCE WITH THE GRADING PLAN.
- CONSTRUCT STORM SYSTEM AND INSTALL INLET SEDIMENT PROTECTION TO NEW BASINS.
- INSTALL ALL REMAINING SITE UTILITIES AND ASSOCIATED INFRASTRUCTURE.
- APPLY EROSION CONTROL MULCH AND SEEDING, STRAW MULCH OR EQUAL, TO AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR PERMANENTLY VEGETATED WITHIN SEVEN DAYS OF EXPOSURE DURING THE DRY SEASON, AND TWO DAYS OF EXPOSURE DURING THE WET SEASON (OCTOBER 1 TO APRIL 30).
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT, AS THE SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH CITY OF PUYALLUP CONSTRUCTION SWPPP MINIMUM REQUIREMENTS.
- FINAL GRADE SITE AND INSTALL FINAL SURFACE TREATMENTS. ENSURE THAT SURFACE WATER IS POSITIVELY DIRECTED TOWARD PROPOSED STORM COLLECTION FACILITIES.
- REMOVE REMAINING TEMPORARY EROSION CONTROL ITEMS ONCE SITE HAS BEEN STABILIZED AND UPON APPROVAL OF THE CITY OF PUYALLUP.

**CITY OF PUYALLUP GENERAL NOTES**

- 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 APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- 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.
- 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").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE 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/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 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.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 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.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- 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.

**SHEET INDEX**

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STATE PROJECT NO.: 2020-148  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 10/25/22  
 Job No.: 22135.00  
 Drawn By: C. HOVDE  
 Checked by: W. FIERST

Revisions

#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

COVER SHEET

**C1.0**

SITE PERMIT SET

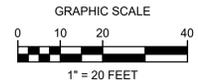
**integrus**  
 ARCHITECTURE

**AHBL**  
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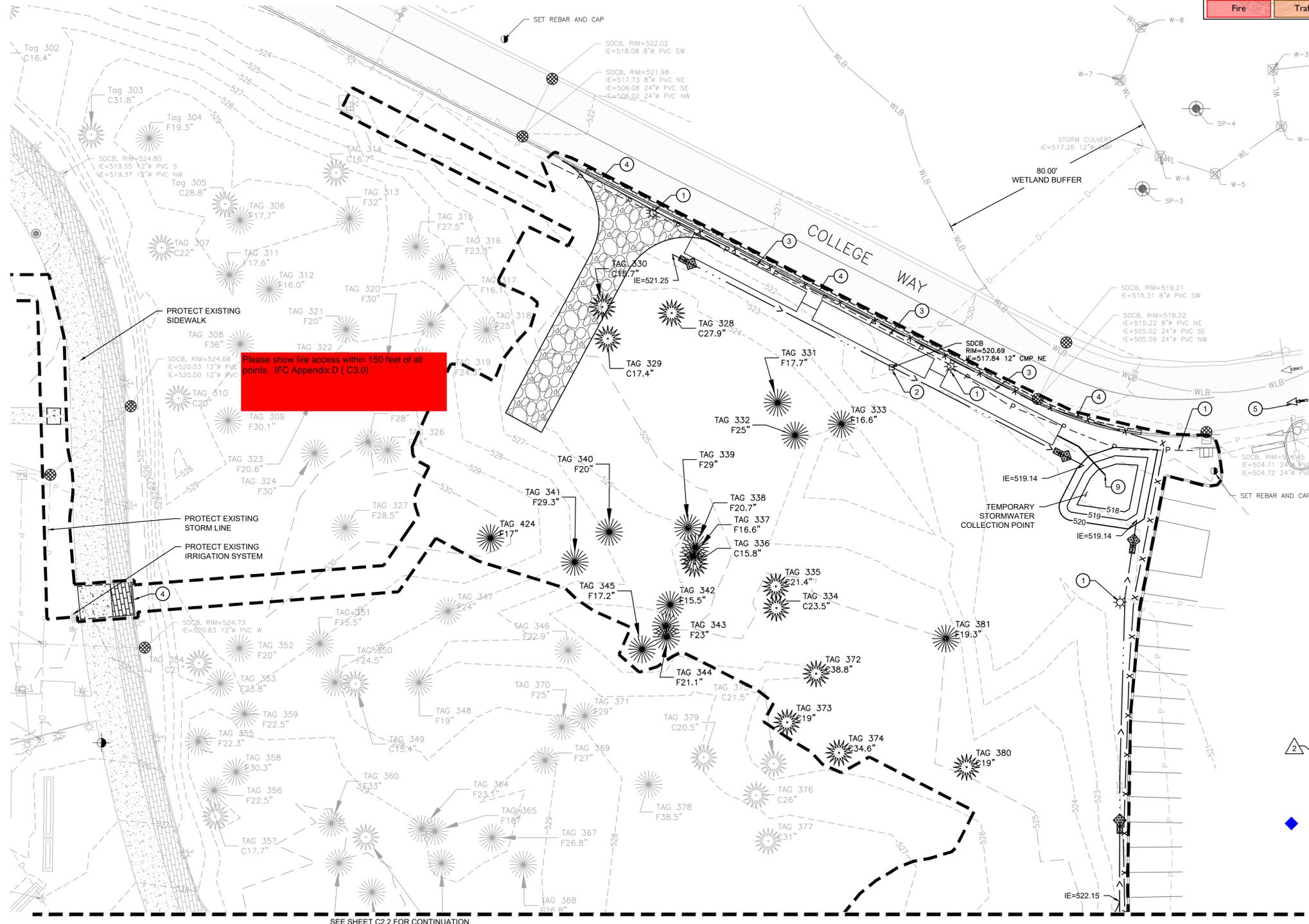
**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



**APPROVED**  
BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: 11/08/2022

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 CITY ENGINEER



Please show fire access within 150 feet of all points. IFC Appendix D (C.3.0)

**LEGEND:**

	INLET PROTECTION (1) C2.4
	REMOVE EXISTING CONCRETE
	REMOVE EXISTING ASPHALT
	REMOVE EXISTING GRASSPAVE SURFACING
	CONSTRUCTION ENTRANCE (2) C2.4
	CLEARING/PROJECT LIMITS
	SAWCUT LINE
	SILT FENCE (3) C2.4
	INTERCEPTOR SWALE (4) C2.4
	ROCK CHECK DAM (5) C2.4
	TREES TO BE REMOVED
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS

**KEY NOTES:**

- REMOVE AND REPLACE EXISTING POWER LINE AND LIGHT POLE, TYP. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- DEMOLISH EXISTING CATCH BASIN AND PIPE. SEE SHEET C3.1 FOR CONNECTION TO NEW STRUCTURE.
- PROVIDE BAKER TANK. SIZING PER CSWPP CALCULATIONS. (1) C2.5
- DEMOLISH EXISTING CURB.
- REMOVE EXISTING TRAFFIC ARROW.
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- PUMP AND PIPE STORMWATER TO BAKER TANKS.

**TESC AND DEMOLITION NOTES**

- PROTECT EXISTING UTILITIES TO REMAIN.
- SEE EROSION CONTROL DETAILS ON SHEET C2.4. SEE SHEET C2.4 CITY OF PUYALLUP EROSION AND SEDIMENT CONTROL NOTES. SEE SHEET C1.0 FOR CONSTRUCTION SEQUENCE. SEE SHEET C2.3 FOR HYDROSEEDING NOTES.
- INFORMATION PRESENTED IN THIS DRAWING REPRESENTS THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THIS DRAWING DOES NOT INCLUDE ALL EXISTING UTILITIES, AND THOSE UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL ENSURE THAT ALL UTILITIES HAVE BEEN IDENTIFIED AND LOCATED BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY INFORMATION PROVIDED, BE IT EXISTING OR PROPOSED, IS BELIEVED TO BE IN ERROR.
- EROSION CONTROL MEASURES SHALL BE PROVIDED IMMEDIATELY AT THE COMMENCEMENT OF CONSTRUCTION. HYDROSEED SHALL BE APPLIED TO ALL DISTURBED AREAS PER HYDROSEED NOTES SHEET C2.3.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLISHED AND CLEARED MATERIALS. DISPOSE OF ALL ASBESTOS CEMENT PIPING PER WAC REQUIREMENTS.
- EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN.
- CLEAR AND GRUB ALL TREES AND VEGETATION WITHIN CLEARING LIMITS. REMOVE ALL BOULDERS AND CONCRETE BLOCKS WITHIN THE CLEARING LIMITS.
- THE CONTRACTOR SHALL DEMOLISH AND REPLACE IN KIND ALL EXISTING IRRIGATION LINES IMPACTED BY THE WORK. CONTRACTOR SHALL REPLACE IRRIGATION HEADS IN KIND.
- CONTRACTOR SHALL ADJUST ALL EXISTING UTILITIES WITHIN WORK LIMITS TO FINISH GRADE.
- PROTECT EXISTING FEATURES WITHIN CLEARING LIMITS TO REMAIN.
- DEMOLISH ALL DARKER EXISTING FEATURES WITHIN CLEARING LIMITS. LIGHTER EXISTING FEATURES SHALL BE PROTECTED AND REMAIN.
- SEE LANDSCAPE PLANS FOR TREE PROTECTION PLAN.
- COORDINATE POWER DEMOLITION WITH UTILITY PURVEYOR AND ELECTRICAL PLANS. CONTRACTOR TO ENSURE THAT DEMOLITION OF LINES WILL NOT COMPROMISE POWER TO OTHER AREAS.
- CONTRACTOR SHALL ENSURE THAT ADEQUATE FIRE PROTECTION ACCESS IS PROVIDED TO SITE AND EXISTING STRUCTURES TO REMAIN. CONTRACTOR SHALL ALSO PROVIDE ADEQUATE FIRE PROTECTION FOR THE NEW BUILDING.
- CONTRACTOR SHALL MINIMIZE DUST GENERATION ONSITE BY SPRINKLING THE SITE WITH WATER UNTIL SURFACE IS WET. SEE BMP C140.
- REMOVE CONCRETE AT THE NEAREST JOINT. DO NOT SAWCUT CONCRETE.
- INLET PROTECTION SHALL BE PROVIDED ON ALL CATCH BASINS WITHIN 500 FEET OF THE PROJECT.
- AMEND ALL DISTURBED SOILS PER CITY OF PUYALLUP STANDARD DETAIL NO. 01.02.08A. SEE DETAIL 1, SHEET C2.5.
- DEMOLITION AND INSTALLATION OF POWER IS NOT REVIEWED/ APPROVED BY THE CITY OF PUYALLUP.

NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

NOTICE: ALTERATION OF THIS DOCUMENT SHALL MAINTAIN THE PROFESSIONAL SEAL AND SIGNATURE. REPRODUCTION OF THIS DOCUMENT DOES NOT DEROGATE FROM RESERVED COPYRIGHT RIGHTS IN THIS DOCUMENT OR FROM USE ONLY FOR THE PROJECT IDENTIFIED IN THE TITLE. BLOCK AND DO NOT TO BE USED FOR REPAIR, REBUILD, OR ADDITION TO THIS PROJECT OR FOR ANY OTHER PROJECT.

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

Date:	10/25/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
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TESC AND DEMOLITION PLAN

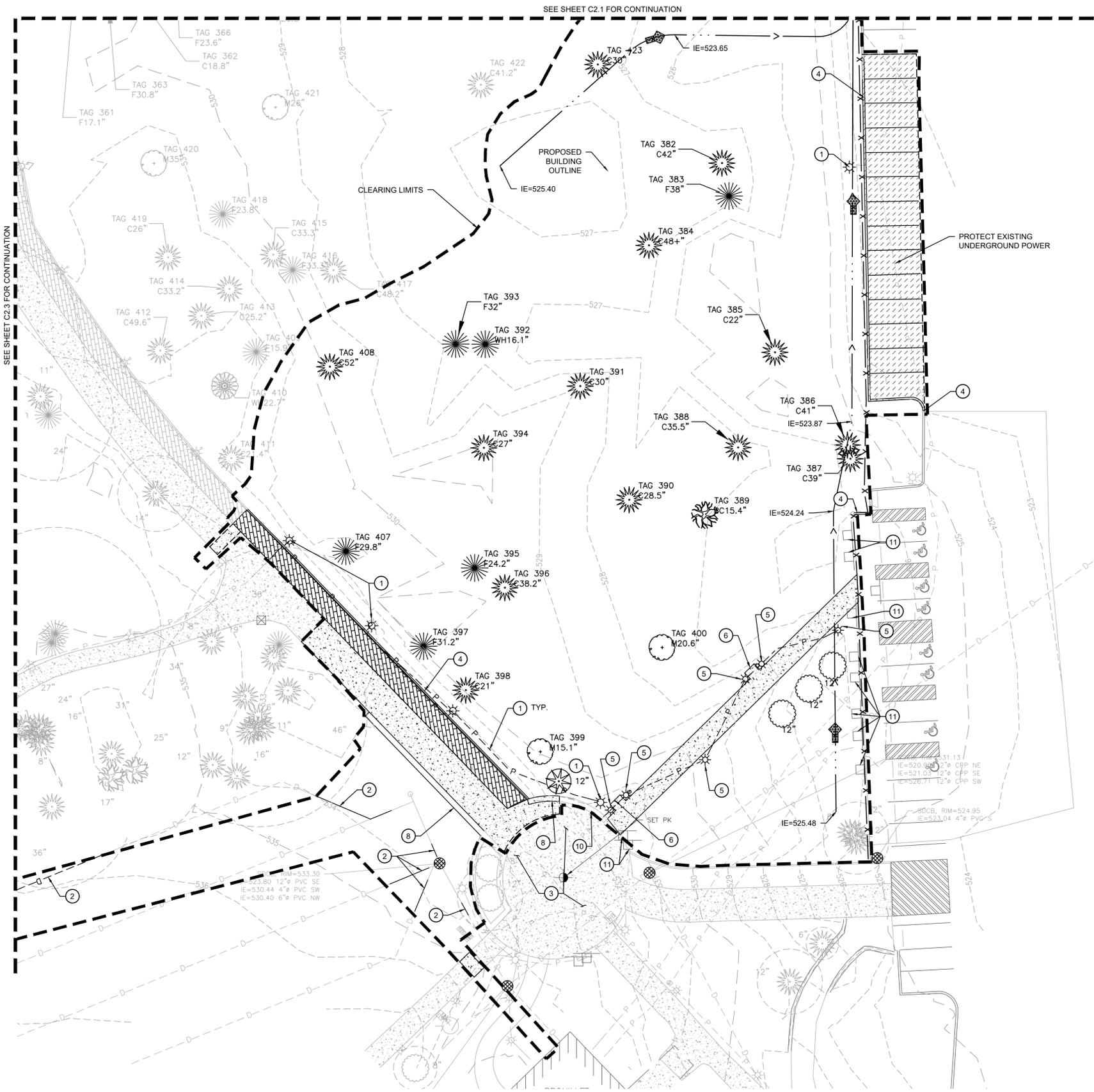
**C2.1**

SITE PERMIT SET

**integrus** ARCHITECTURE  
117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA 98104  
TELEPHONE: (206) 767-1137 FAX: (206) 767-1131

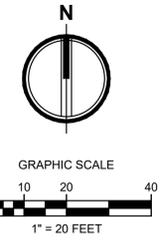
**AHBL**  
A C O M A - SEATTLE - SPOKANE - TRICITIES  
2215 North 30th Street, Suite 300 Tacoma, WA 98403  
253.383.4222 Tel. 253.383.2972 Fax www.ahbl.com WES

**WILLIAM J. FIERST**  
Professional Engineer  
10/24/2022



SEE SHEET C2.3 FOR CONTINUATION

SEE SHEET C2.1 FOR CONTINUATION



**LEGEND:**

- INLET PROTECTION (1) C2.4
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT
- REMOVE EXISTING GRASSPAVE SURFACING
- CONSTRUCTION ENTRANCE (2) C2.4
- CLEARING/PROJECT LIMITS
- SAWCUT LINE
- SILT FENCE (3) C2.4
- INTERCEPTOR SWALE (4) C2.4
- ROCK CHECK DAM (5) C2.4
- TREES TO BE REMOVED
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS

**KEY NOTES:**

- 1 REMOVE AND REPLACE EXISTING POWER LINE AND LIGHT POLE, TYP. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- 2 DEMOLISH EXISTING FIELD UNDERDRAIN. RESTORE AS SHOWN ON DRAINAGE PLANS.
- 3 PROTECT EXISTING NORTH ARROW CONCRETE PATTERN.
- 4 DEMOLISH EXISTING CURB.
- 5 DEMOLISH EXISTING UT BOLLARDS. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- 6 REMOVE AND SALVAGE EXISTING BENCHES. RETURN TO OWNER.
- 7 DEMOLISH EXISTING CONCRETE STAIRCASE AND HANDRAIL. REPLACE IN-KIND.
- 8 DEMOLISH EXISTING CONCRETE SEATWALL.
- 9 NOT USED
- 10 PROTECT EXISTING CONCRETE SEATWALL.
- 11 PROTECT SIGN.

SEE SHEET C2.1 FOR TESC AND DEMOLITION NOTES

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA 98104  
 TELEPHONE: (206) 467-1137 FAX: (206) 467-1131

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**WILLIAM J. FIERST**  
 STATE OF WASHINGTON  
 1800  
 PROFESSIONAL ENGINEER  
 10/24/2022

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 10/25/22  
 Job No.: 22135.00  
 Drawn By: C. HOVDE  
 Checked by: W. FIERST

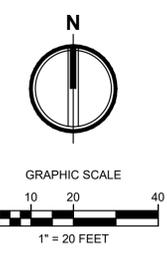
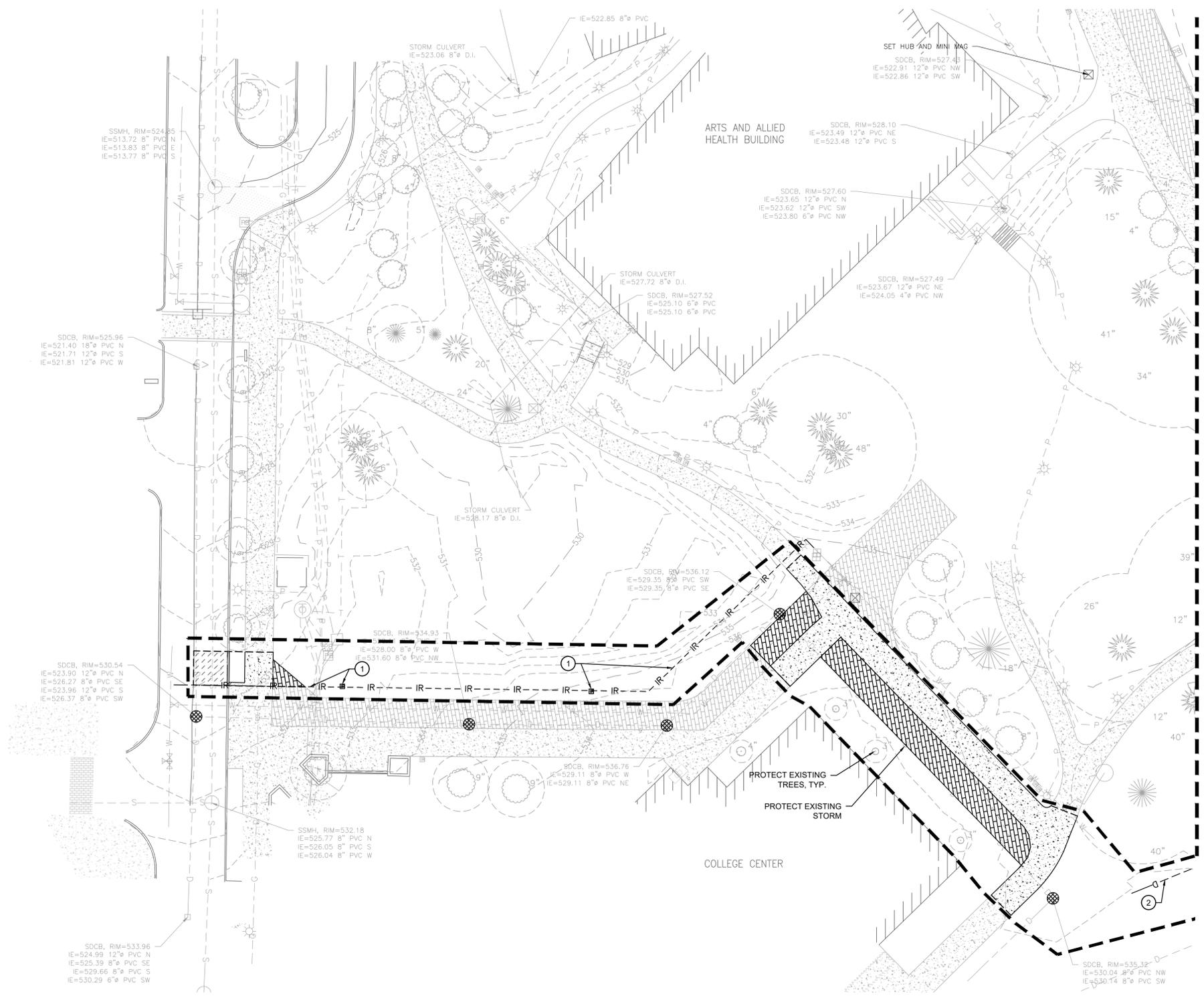
#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

TESC AND DEMOLITION PLAN

**NOTE:** THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

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**C2.2**



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BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: **11/08/2022**

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**City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**LEGEND:**

- INLET PROTECTION (1) C2.4
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT
- REMOVE EXISTING GRASSPAVE SURFACING
- CONSTRUCTION ENTRANCE (2) C2.4
- CLEARING/PROJECT LIMITS
- SAWCUT LINE
- SILT FENCE (3) C2.4
- INTERCEPTOR SWALE (4) C2.4
- ROCK CHECK DAM (5) C2.4
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS

SEE SHEET C2.1 FOR TESC AND DEMOLITION NOTES

**KEY NOTES:**

- 1 DEMOLISH EXISTING IRRIGATION STRUCTURE AND ASSOCIATED PIPE
- 2 DEMOLISH EXISTING FIELD UNDERDRAIN. RESTORE AS SHOWN ON DRAINAGE PLANS.

**HYDROSEEDING NOTES**

1. SEED MIXTURE SHALL BE THE FOLLOWING MIXTURE, AND SHALL BE APPLIED AT THE RATE OF 120 LB PER ACRE.
  - 40% ANNUAL RYE (LOLIUM MULIFORUM)
  - 10% REDTOP (AGROSTIS ALBE)
  - 10% WHITE DUTCH CLOVER (TRIFOLIUM)
  - 40% CHEWINGS FESCUE (FESTUCA REBRA COMMUTATA) (JAMESTOWN, BANNER, SHADOW OR KOKET)
2. SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
3. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.
5. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

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TELEPHONE: (206) 767-1137 FAX: (206) 767-1131



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**NEW STEM BUILDING**  
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Date: 10/25/22  
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Revisions

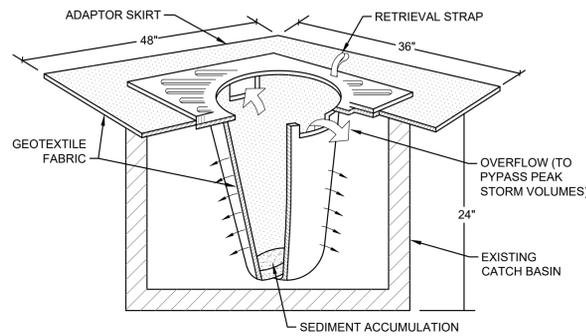
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TESC AND DEMOLITION PLAN

**C2.3**

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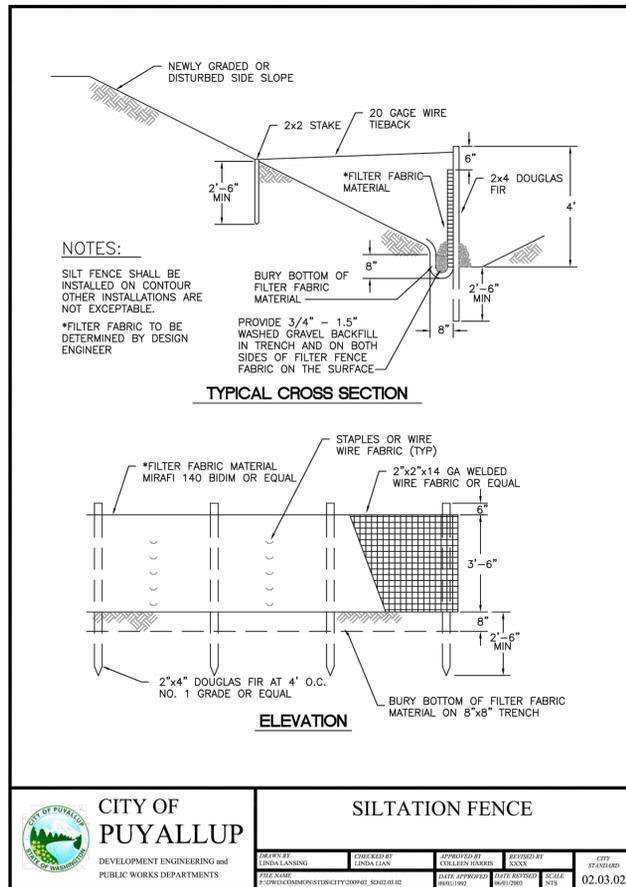
- NOTES:
1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL.
  2. INSTALL INLET PROTECTION IN ALL NEW STORM STRUCTURES THAT WILL COLLECT STORMWATER AS THEY ARE INSTALLED.

### INLET PROTECTION NOTES

1. SIZE THE CATCH BASIN INSERT FOR THE STORMWATER STRUCTURE IT WILL SERVICE.
2. THE INSERT SHALL HAVE AN OVERFLOW BYPASS.
3. THE RETRIEVAL SYSTEM MUST ALLOW FOR THE REMOVAL OF THE INSERT WITHOUT SPILLING THE COLLECTED MATERIAL.
4. MAINTAIN IN ACCORDANCE WITH WSDOT STANDARD SPEC 8-01.3(9)D.

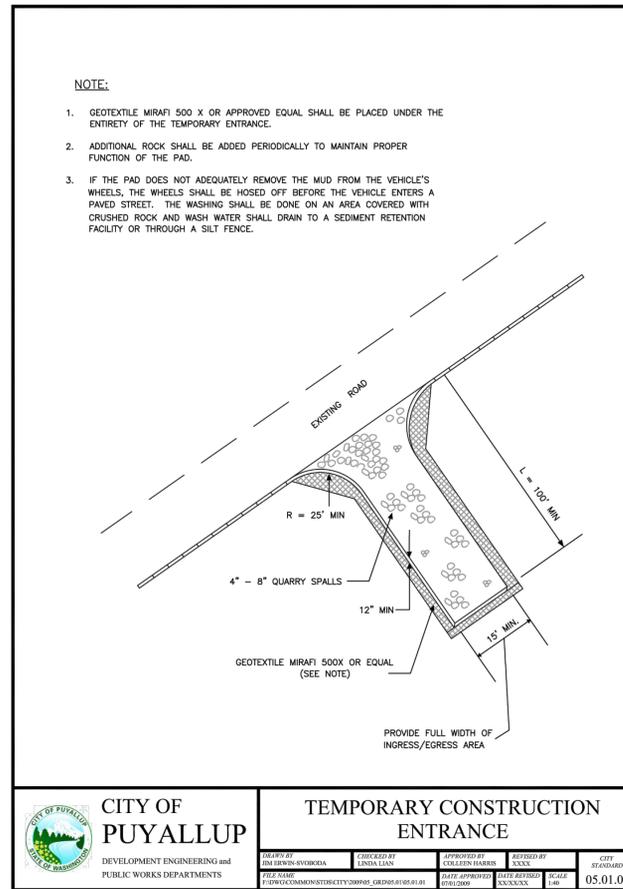
## 1 INLET PROTECTION

NOT TO SCALE



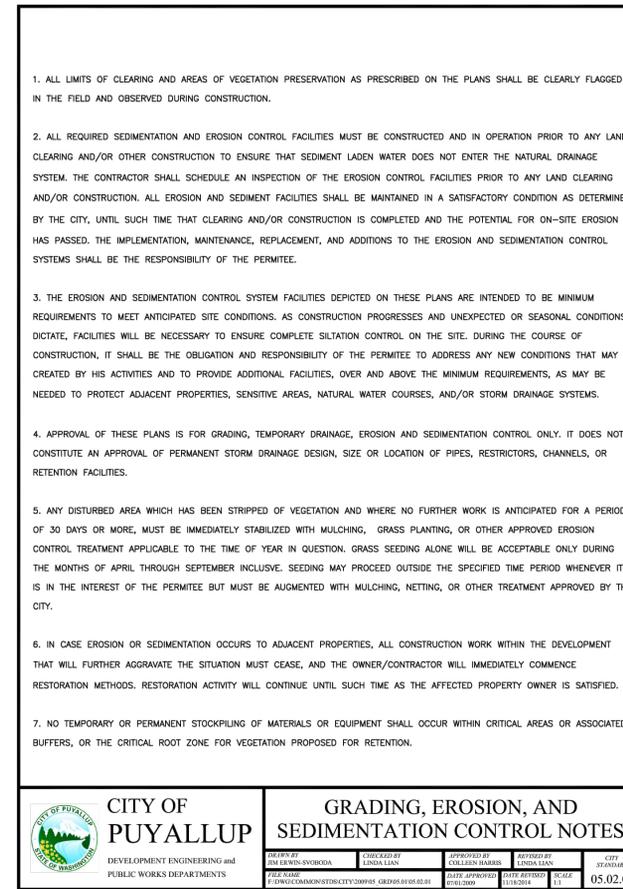
## 3 SILT FENCE

NOT TO SCALE



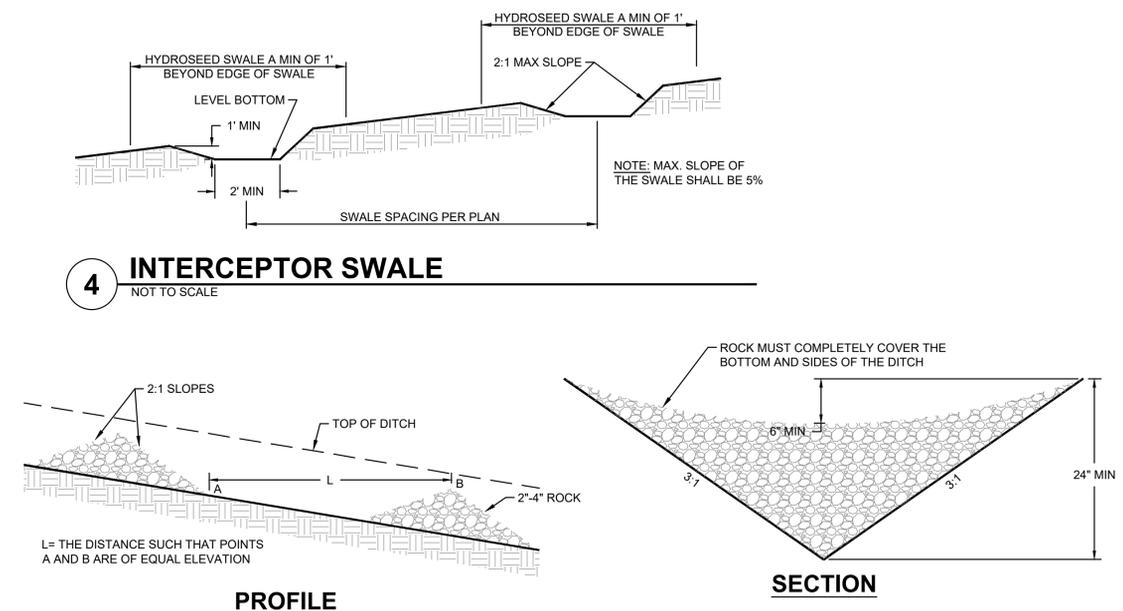
## 2 TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE



## 4 INTERCEPTOR SWALE

NOT TO SCALE



## 5 ROCK CHECK DAM

NOT TO SCALE

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APPROVED BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: 11/08/2022

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City of Puyallup  
Development & Permitting Services  
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Building Planning  
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Fire Traffic

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WILLIAM J. FIERST  
STATE OF WASHINGTON  
1800  
PROFESSIONAL ENGINEER  
10/24/2022

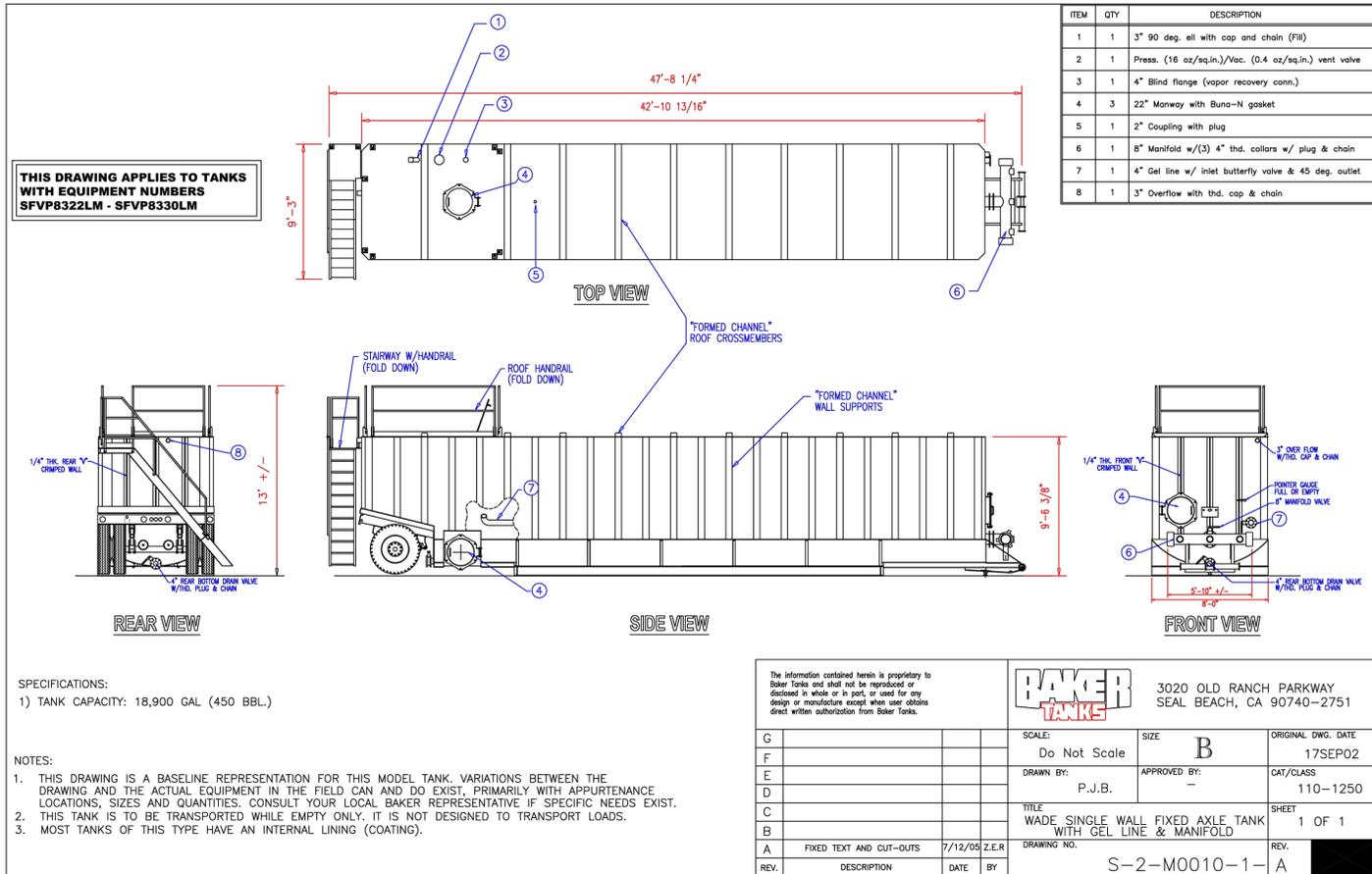
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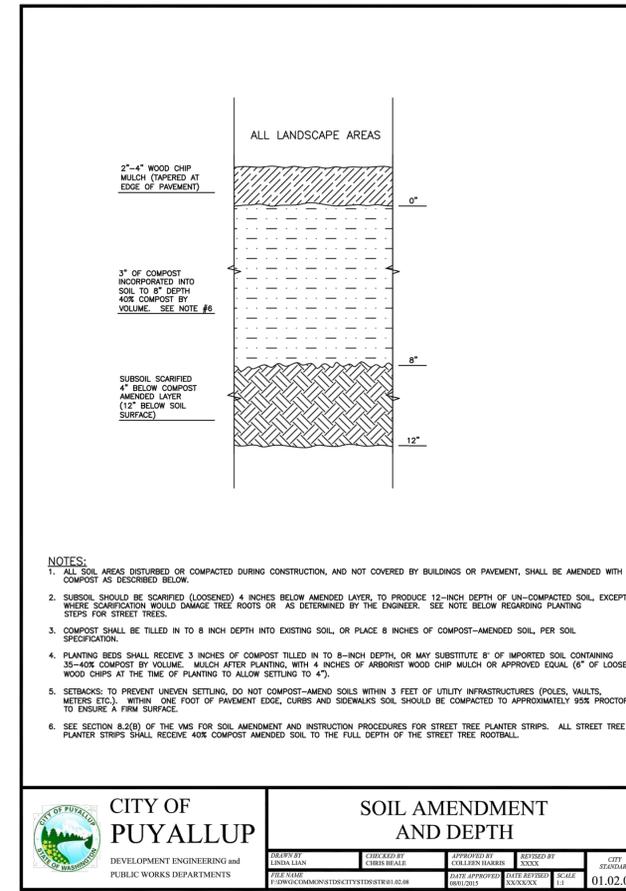
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TESC NOTES AND DETAILS

C2.4



**1 TEMPORARY STORMWATER TANK**  
NOT TO SCALE



**2 SOIL AMENDMENT AND DEPTH**  
NOT TO SCALE

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BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
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**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

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Fire	Traffic

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**WILLIAM J. FIERST**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
NO. 41800  
10/24/2022

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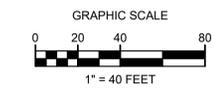
TESC NOTES AND DETAILS

**C2.5**

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City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

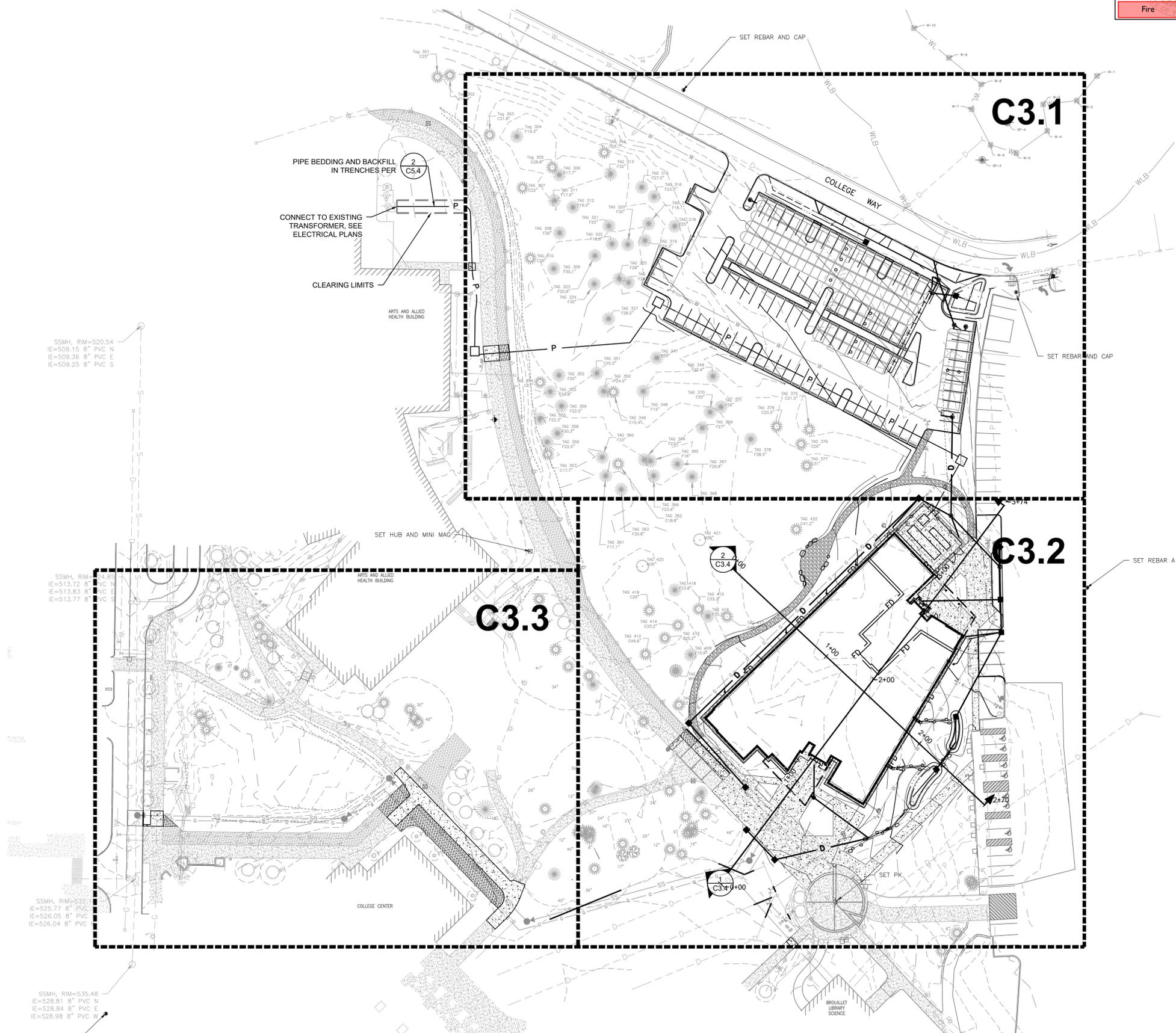


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**GENERAL NOTES**

- SEE ARCHITECT'S AND LANDSCAPE PLANS FOR ADDITIONAL SITE FEATURES.
- FOR BEDDING AND BACKFILL PIPE TRENCHES SEE DETAIL **(2) C5.4**
- SPOT ELEVATIONS AND CONTOURING SHOWN REPRESENT FINISH GRADE ELEVATIONS. SUBGRADE ELEVATIONS WILL VARY DEPENDING UPON TYPE OF SURFACING REQUIRED. REFER TO SPECIFICATIONS FOR TOPSOIL AND MULCH DEPTHS.
- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRADES PRIOR TO CONSTRUCTION ACTIVITIES. CONTACT ENGINEER IF PROPOSED GRADES ARE BELIEVED TO BE IN ERROR.
- FINISHED GRADES ARE INDICATED. CONTRACTOR SHALL EXCAVATE AND FILL TO ACHIEVE PROPER SUBGRADES.
- ALL FILL MATERIALS SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- ALL FOOTING DRAINS SHALL BE 4-INCH IN DIAMETER AND PLACED AROUND BUILDING. FOOTING DRAINS SHALL CONNECT INTO STORM DRAIN CATCH BASIN.  
FOOTING DRAINS PER DETAIL **(3) C5.2**
- ROOF DRAIN LINES SHALL BE 8-INCH PIPE MINIMUM AT A MINIMUM 0.5 PERCENT SLOPE UNLESS OTHERWISE INDICATED. CONNECT ALL DOWNSPOUTS AND ROOF LEADERS TO THE NEAREST ROOF DRAIN. ALL ROOF DRAINS SHALL BE CONNECTED TO A STORM DRAINAGE CATCH BASIN. PROVIDE AS-BUILTS TO OWNER. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR EXACT LOCATIONS AND NUMBER OF DOWNSPOUTS.  
STORM DRAIN CLEANOUTS PER DETAIL **(1) C5.2**
- ADJUST EXISTING UTILITY LIDS FOR FINISHED GRADE.



SSMH, RIM=520.54  
 IE=509.15 8" PVC N  
 IE=509.36 8" PVC E  
 IE=509.25 8" PVC S

SSMH, RIM=524.85  
 IE=513.72 8" PVC N  
 IE=513.83 8" PVC E  
 IE=513.77 8" PVC S

SSMH, RIM=532.85  
 IE=523.77 8" PVC N  
 IE=526.05 8" PVC E  
 IE=526.04 8" PVC S

SSMH, RIM=535.48  
 IE=528.51 8" PVC N  
 IE=528.84 8" PVC E  
 IE=528.98 8" PVC S

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OVERALL GRADING PLAN

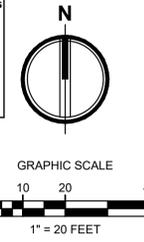
**C3.0**

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City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
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- LEGEND**
- BC BOTTOM OF CURB ELEVATION
  - BW BOTTOM OF WALL ELEVATION
  - EG MATCH EXISTING GRADE ELEVATION
  - FG FINISHED GRADE ELEVATION
  - FL FLOW LINE ELEVATION
  - TC TOP OF CURB ELEVATION
  - TW TOP OF WALL ELEVATION
  - GRADE/SLOPE
  - XXX EXISTING MAJOR CONTOUR
  - XXX EXISTING MINOR CONTOUR
  - XXX PROPOSED MAJOR CONTOUR
  - XXX PROPOSED MINOR CONTOUR
  - GRADE BREAK
  - CATCH BASIN - TYPE 2
  - CATCH BASIN - TYPE 1
  - STORM DRAINAGE CLEANOUT
  - DOWNPOUT CONNECTION
  - DETENTION CHAMBERS
  - STORM DRAINAGE PIPING
  - ROOF DRAIN PIPING
  - FOOTING DRAIN
  - PERFORATED UNDERDRAIN
  - SWALE
  - ROCK OUTFALL PROTECTION
  - ELECTRICAL LINE

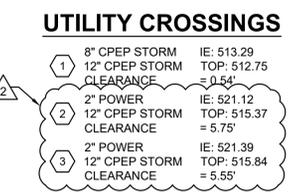
- KEYNOTES**
- 1 6-INCH PVC PERFORATED UNDER-DRAIN PIPE.
  - 2 INSPECTION PORT
  - 3 NOT USED
  - 4 NOT USED
  - 5 BIORETENTION PER DETAIL MIN. BOTTOM AREA = 310 SF
  - 6 CONNECT TO UNDERDRAIN ALONG CHAMBERS. TYP. 6-INCH HDPE PERFORATED UNDER-DRAIN PIPE PER

**STORM STRUCTURE TABLE**

STRUCTURE NAME	STRUCTURE DETAILS
EX. SDCB 1 EXISTING CB N 670675.97 E 1199772.00	RIM = 519.22 IE = 515.22 (8" NE) IE = 505.02 (24" E) IE = 505.09 (24" NW) IE = 511.43 (12" S)
SDCB 11 48" TYPE 2 W/ SOLID LID N 670552.12 E 1199786.97	RIM = 522.88 IE = 512.69 (24" N) IE = 513.69 (12" S) IE = 515.47 (12" W)
SDCB 16 48" TYPE 2 W/ SOLID LID N 670624.10 E 1199788.47	RIM = 520.69 IE = 511.75 (12" N) IE = 512.63 (12" S) IE = 511.75 (6" SE)
SDCB 17 48" TYPE 2 W/ SOLID LID W/ 24" SUMP N 670649.10 E 1199771.10	RIM = 520.07 IE = 512.63 (8" E) IE = 515.47 (12" SW) IE = 512.69 (24" NW) IE = 512.63 (12" NE)
SDCB 18 60" TYPE 2 CONTROL STRUCTURE W/ SOLID LID N 670659.30 E 1199776.17	RIM = 520.03 IE = 514.75 (12" N) IE = 511.75 (12" SW) IE = 511.75 (6" NW) IE = 511.75 (12" S)
SDCB 19 TYPE 1 W/ BEEHIVE GRATE N 670646.86 E 1199789.87	RIM = 518.75 IE = 514.10 (8" W) IE = 515.00 (6" E)

**STORM STRUCTURE TABLE**

STRUCTURE NAME	STRUCTURE DETAILS
SDCB 20 TYPE 1 N 670688.86 E 1199719.35	RIM = 519.50 RIM = 520.59 IE = 517.83 (12" NE)
SDCB 21 48" TYPE 2 W/ SOLID LID N 670622.77 E 1199797.46	RIM = 520.68 IE = 512.63 (12" S)
SDCB 22 48" TYPE 2 W/ SOLID LID N 670721.79 E 1199628.41	RIM = 522.79 IE = 512.63 (24" SE)



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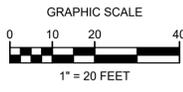
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GRADING AND DRAINAGE PLAN

**C3.1**



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 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

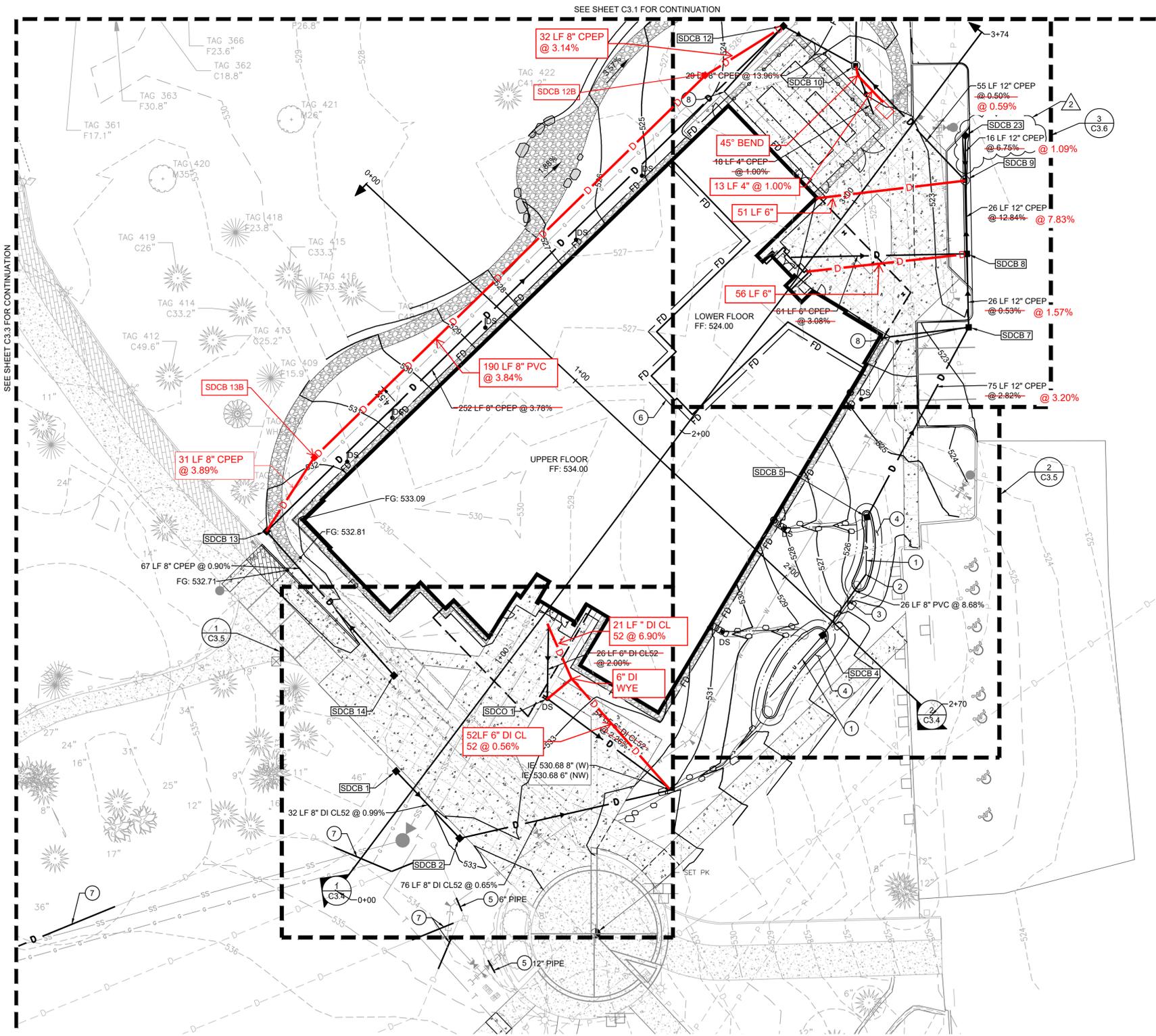
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**LEGEND**

- BC BOTTOM OF CURB ELEVATION
- BW BOTTOM OF WALL ELEVATION
- EG MATCH EXISTING GRADE ELEVATION
- FG FINISHED GRADE ELEVATION
- FL FLOW LINE ELEVATION
- TC TOP OF CURB ELEVATION
- TW TOP OF WALL ELEVATION
- XXX GRADE/SLOPE
- XXX EXISTING MAJOR CONTOUR
- XXX EXISTING MINOR CONTOUR
- XXX PROPOSED MAJOR CONTOUR
- XXX PROPOSED MINOR CONTOUR
- GRADE BREAK
- CONCRETE WALL
- CATCH BASIN - TYPE 2
- CATCH BASIN - TYPE 1
- STORM DRAINAGE CLEANOUT
- DS DOWNSPOUT CONNECTION
- D STORM DRAINAGE PIPING
- RD ROOF DRAIN PIPING
- FD FOOTING DRAIN
- U PERFORATED UNDERDRAIN
- ⊞ ROCK OUTFALL PROTECTION
- ⊞ ROCK LINED SWALE, SEE LANDSCAPE ARCHITECT PLAN FOR DETAILS

**City of Puyallup  
Development & Permitting Services  
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Building	Planning
Engineering	Public Works
Fire	Traffic



**KEYNOTES**

- 1 6-INCH PVC PERFORATED UNDER-DRAIN PIPE.
- 2 CHANGE IN PIPE TYPE.
- 3 8-INCH PVC SOLID PIPE.
- 4 DECORATIVE RAIN GARDEN PER DETAIL
- 5 REPLACE FIELD COLLECTOR DRAIN PER DETAIL. FIELD VERIFY LOCATION AND ELEVATION
- 6 CONNECT INSIDE BUILDING FOOTING DRAIN TO EXTERIOR FOOTING DRAIN. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR INSIDE BUILDING FOOTING DRAIN DETAIL.
- 7 REPLACE FIELD UNDERDRAIN PER DETAIL. FIELD VERIFY LOCATION AND ELEVATION
- 8 CONNECT FOOTING DRAIN TO CATCH BASIN AS SHOWN

**STORM STRUCTURE TABLE**

STRUCTURE NAME	STRUCTURE DETAILS	
SDCB 1 TYPE 1 N 670229.90 E 1199625.60	RIM = 533.03 IE = 531.49 (8° SE)	
SDCB 2 TYPE 1 N 670206.58 E 1199647.77	RIM = 532.84 IE = 531.17 (8° NW) IE = 531.17 (8° E)	
SDCB 4 TYPE 1 W/BEEHIVE GRATE N 670277.11 E 1199774.44	RIM = 528.59 IE = 524.31 (8° NE) IE = 524.48 (6° SW)	RIM = 528.09
SDCB 5 TYPE 1 W/BEEHIVE GRATE N 670318.18 E 1199789.93	RIM = 525.30 IE = 521.35 (12° NE) IE = 521.85 (6° S)	RIM = 524.89 IE = 520.90 (12° NE) IE = 521.50 (6° S)
SDCB 7 TYPE 1 N 670384.14 E 1199825.45	RIM = 522.54 IE = 519.24 (12° N) IE = 519.24 (12° SW) IE = 518.87 (8° W) IE = 519.00 (4° W)	RIM = 518.40 (12° N) IE = 518.50 (12° SW) IE = 518.80 (8° W) IE = 519.00 (4° W)
SDCB 8 TYPE 1 N 670409.68 E 1199824.79	RIM = 522.44 IE = 519.44 (12° N) IE = 519.44 (12° S) IE = 519.64 (6° W)	RIM = 522.24 IE = 518.00 (12° N) IE = 518.00 (12° S) IE = 518.70 (6° W)
SDCB 9 48" TYPE 2 N 670435.22 E 1199824.13	RIM = 521.98 IE = 515.83 (12° NW) IE = 515.83 (12° S) IE = 517.83 (12° N)	RIM = 522.08 IE = 516.00 (12° S) IE = 516.00 (6° W)
SDCB 10 48" TYPE 2 N 670475.09 E 1199785.97	RIM = 522.75 IE = 515.55 (12° N) IE = 515.55 (12° SE) IE = 515.88 (8° NW) IE = 515.50 (4° S)	RIM = 522.75 IE = 515.50 (12° N) IE = 515.50 (12° SE) IE = 515.50 (8° NW) IE = 515.50 (4° S)
SDCB 12 TYPE 1 N 670488.81 E 1199760.75	RIM = 523.06 IE = 519.89 (8° SW) IE = 519.89 (8° SE) IE = 521.05 (4° SW)	RIM = 523.61 NOT INSTALLED
SDCB 13 TYPE 1 N 670313.26 E 1199580.40	RIM = 532.13 IE = 529.40 (8° SE) IE = 529.40 (8° NE)	RIM = 532.48

**STORM STRUCTURE TABLE**

STRUCTURE NAME	STRUCTURE DETAILS	
SDCB 14 TYPE 1 N 670263.15 E 1199624.84	RIM = 533.06 IE = 530.00 (8° NW)	
SDCB 23 TYPE 1 N 670450.76 E 1199824.27	RIM = 521.88 IE = 518.80 (12° S)	
SDCO 1 CO N 670255.09 E 1199678.38	RIM = 533.55 IE = 531.89 (6° N) IE = 531.89 (6° SE)	
SDCB 12B TYPE 1 W/SOILD LID N 670471.74 E 1199733.36	RIM = 525.10 IE = 520.90 (8° SW) IE = 520.90 (8° NE)	
SDCB 13B TYPE 1 W/SOILD LID N 670339.06 E 1199597.28	RIM = 531.38 IE = 528.20 (8° SE) IE = 528.20 (8° NE)	

RIM = 522.08  
IE = 518.00 (12° S)

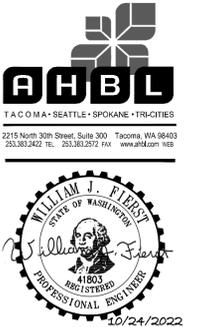
RIM = 533.72

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**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

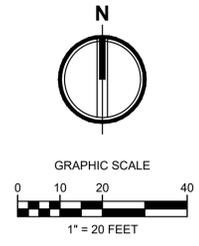
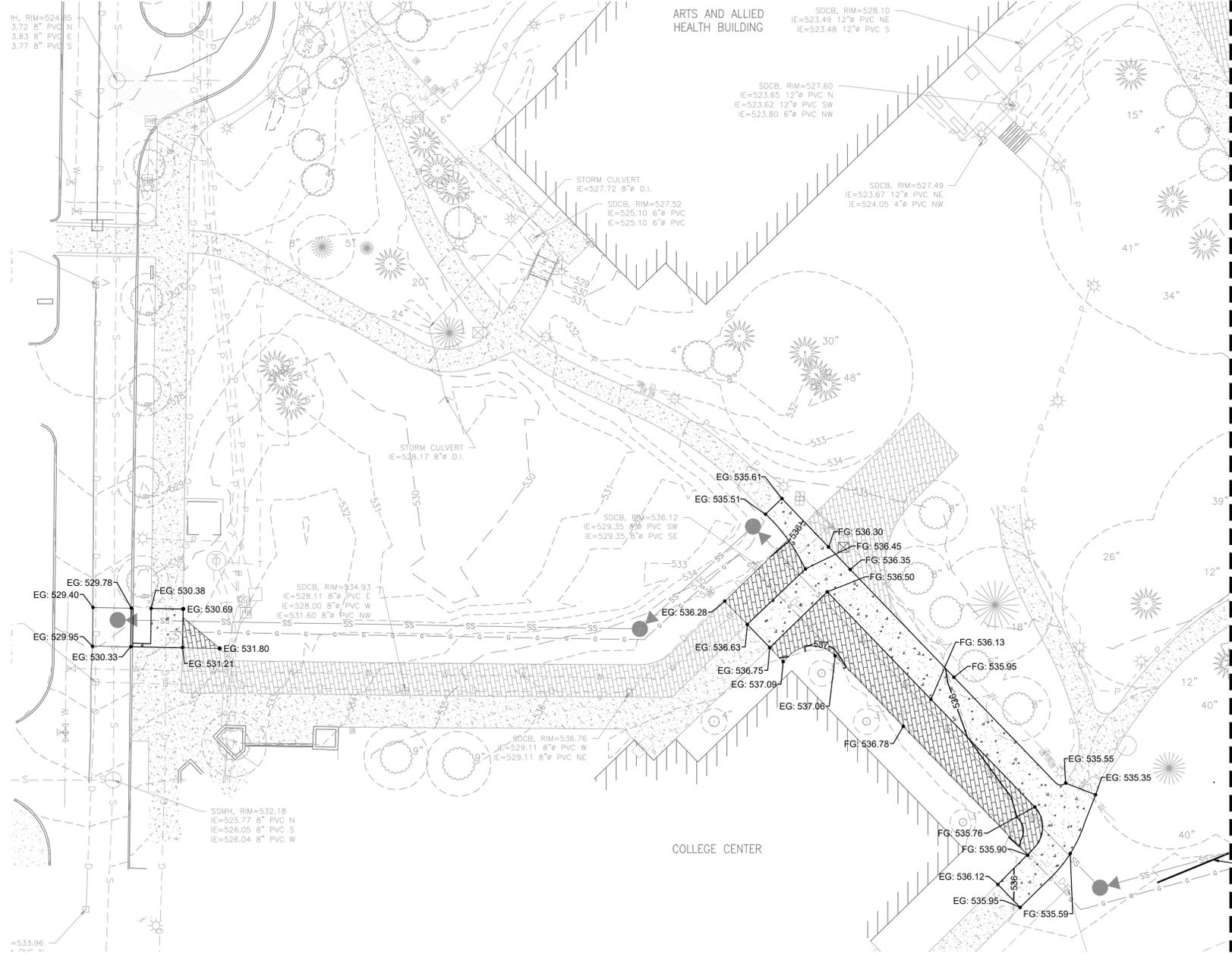
Date: 10/25/22  
 Job No.: 22135.00  
 Drawn By: C. HOVDE  
 Checked by: W. FIERST

Revisions

#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

GRADING AND DRAINAGE PLAN

**C3.2**



**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

**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 CITY ENGINEER

**City of Puyallup  
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**STATE PROJECT NO.: 2020-148  
 PIERCE COLLEGE PUYALLUP  
 NEW STEM BUILDING  
 1601 39th AVE SE  
 Puyallup, WA 98374**

Date: 10/25/22  
 Job No.: 22135.00  
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GRADING AND DRAINAGE PLAN

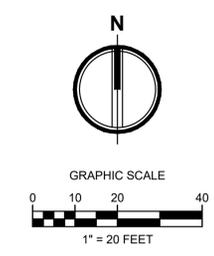
**C3.3**

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SEE SHEET C3.2 FOR CONTINUATION

REPLACE FIELD UNDERDRAIN PER DETAIL C5.2  
 FIELD VERIFY LOCATION AND ELEVATION

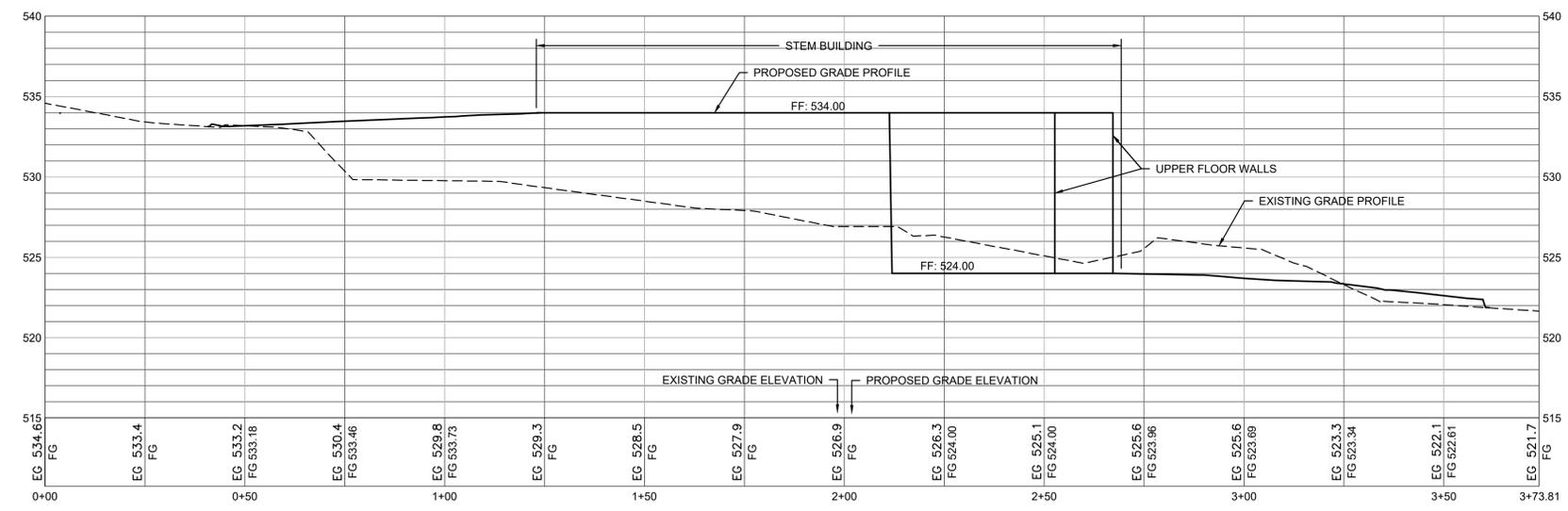


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 BY: *[Signature]*  
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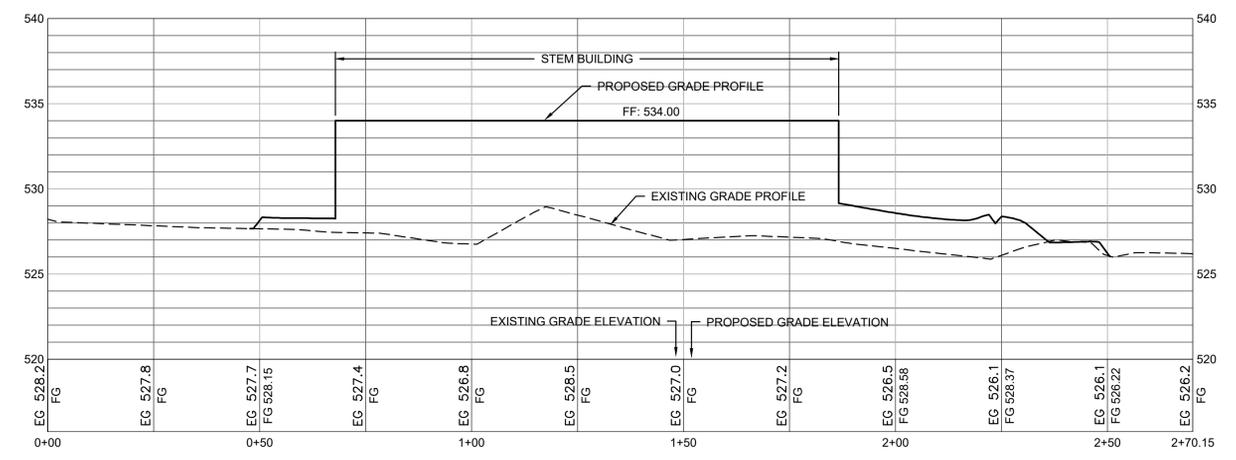
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**City of Puyallup**  
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Fire	Traffic



**1** SECTION 1  
 1"=20' H / 1"=5' V



**2** SECTION 2  
 1"=20' H / 1"=5' V

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**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 10/25/22  
 Job No.: 22135.00  
 Drawn By: C. HOVDE  
 Checked by: W. FIERST

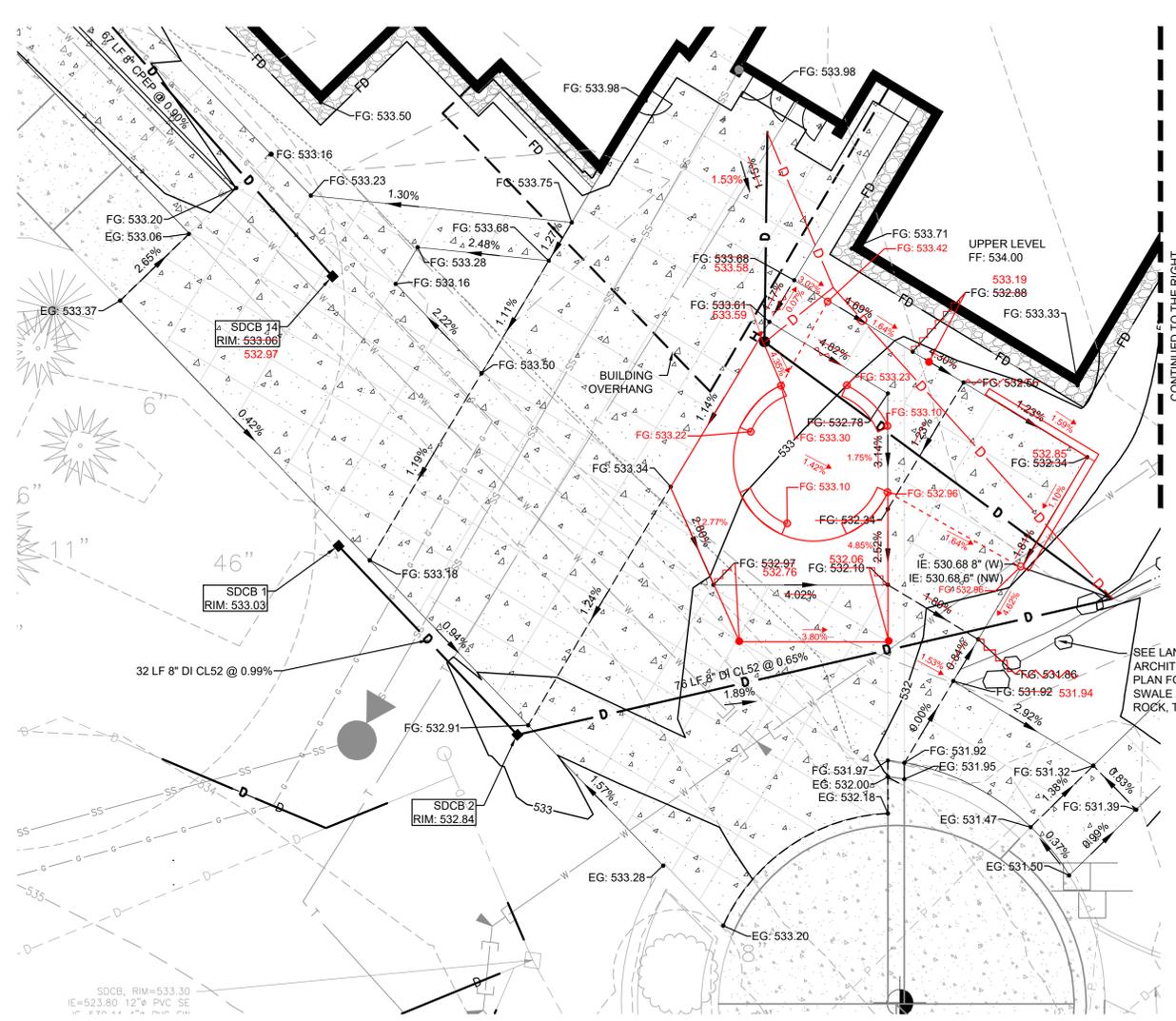
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SITE SECTIONS

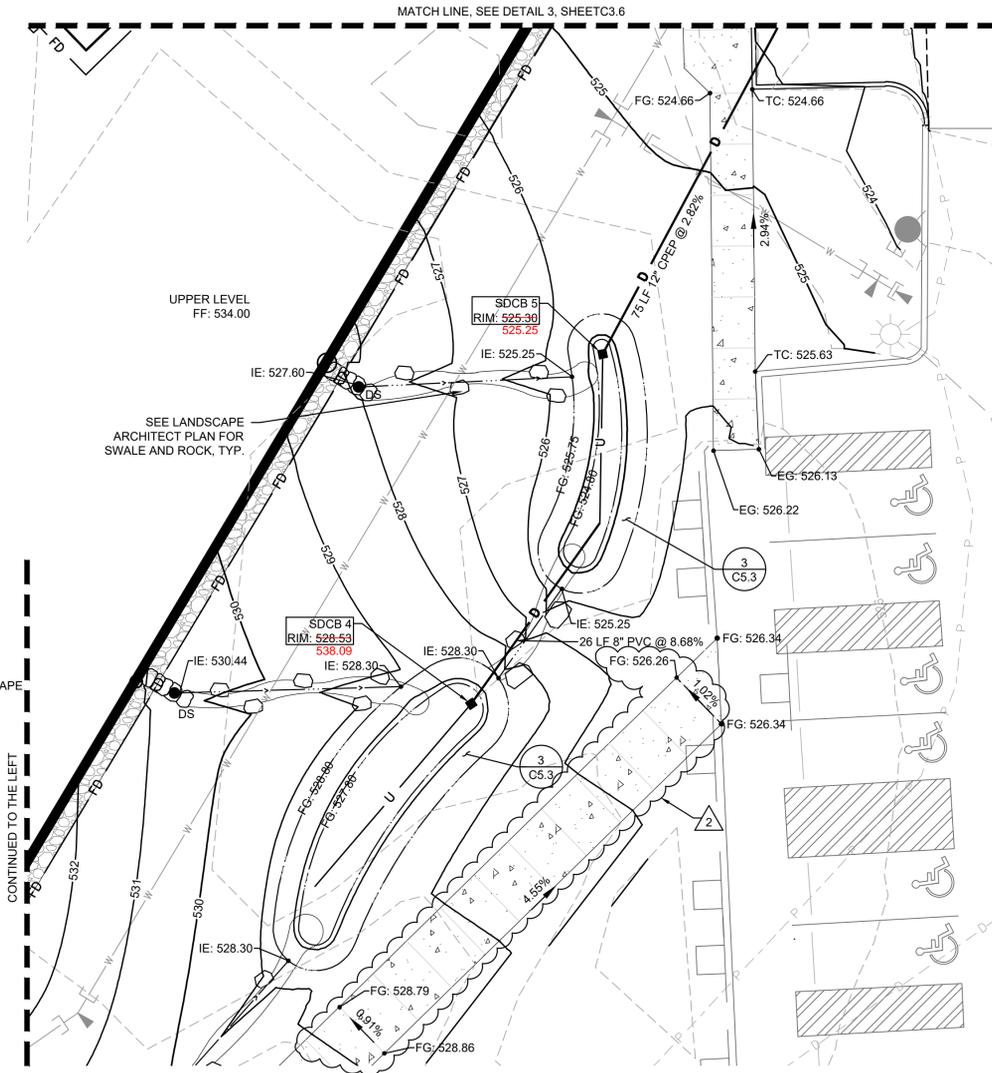
**C3.4**

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**1 VIEW A**  
1"=10'



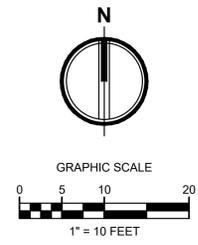
**2 VIEW B**  
1"=10'

**LEGEND**

BC	BOTTOM OF CURB ELEVATION
EG	MATCH EXISTING GRADE ELEVATION
FG	FINISHED GRADE ELEVATION
TC	TOP OF CURB ELEVATION
X.X% OR X-X	GRADE/SLOPE
XXX	EXISTING MAJOR CONTOUR
XXX	EXISTING MINOR CONTOUR
XXX	PROPOSED MAJOR CONTOUR
XXX	PROPOSED MINOR CONTOUR
---	GRADE BREAK
○	CATCH BASIN - TYPE 2
■	CATCH BASIN - TYPE 1
DS	DOWNSPOUT CONNECTION
D	STORM DRAINAGE PIPING
RD	ROOF DRAIN PIPING
FD	FOOTING DRAIN
U	PERFORATED UNDERDRAIN
○	ROCK LINED SWALE, SEE LANDSCAPE ARCHITECT PLAN FOR DETAILS

**GRADING NOTE**

THE RUNNING SLOPE OF ANY WALKWAY MUST BE 5% OR LESS, OTHERWISE IT IS CONSIDERED A RAMP AND MUST MEET ADA ACCESSIBILITY GUIDELINES.



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BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: 11/08/2022

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City of Puyallup  
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**WILLIAM J. FIERST**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
18000  
10/24/2022

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

Date:	10/25/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

Revisions

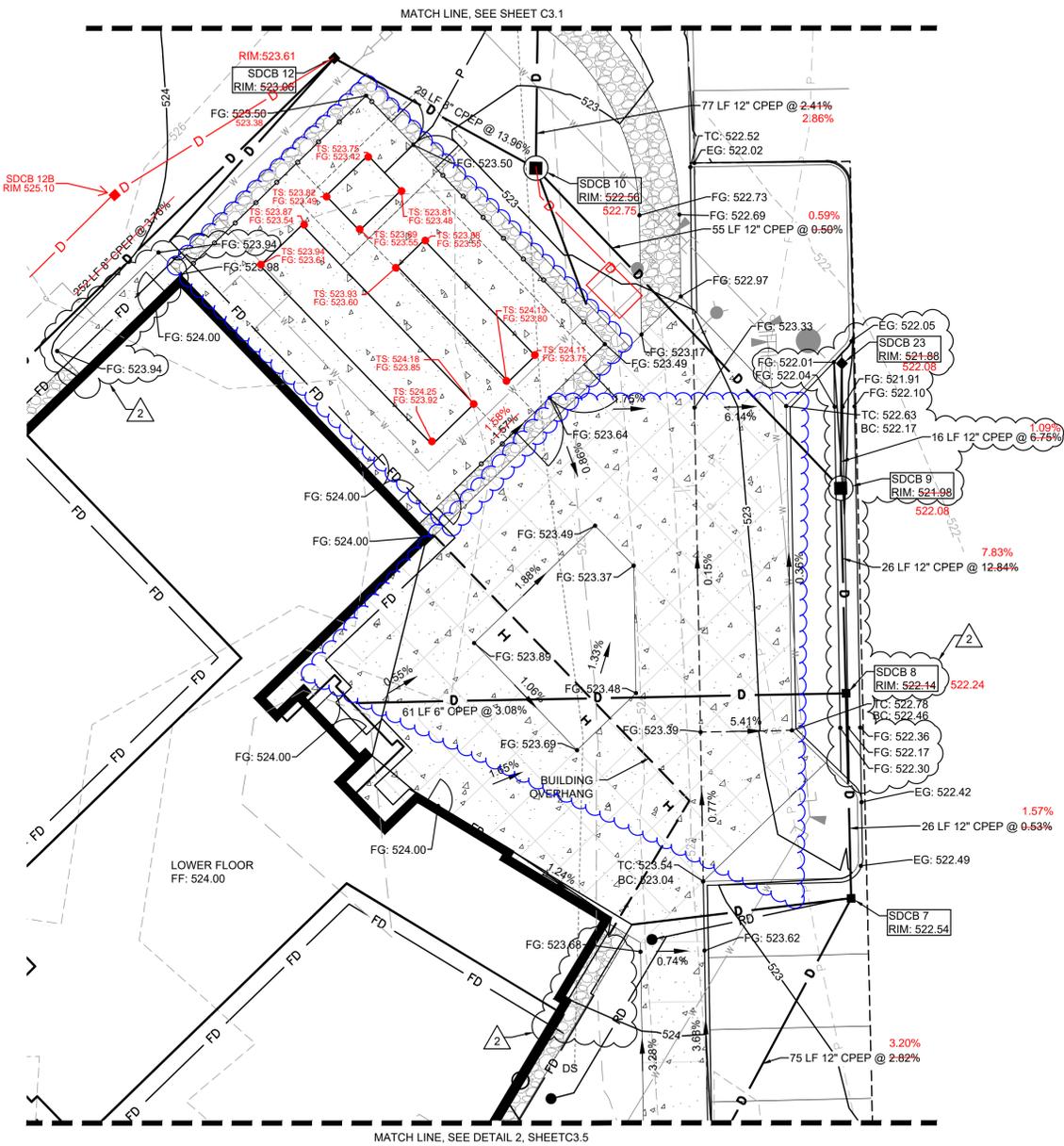
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**GRADING DETAILS**

**C3.5**

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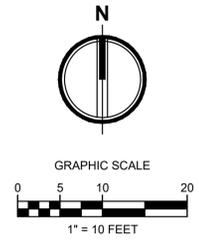


**3 VIEW C**  
1"=10'

**LEGEND**

BC	BOTTOM OF CURB ELEVATION
EG	MATCH EXISTING GRADE ELEVATION
FG	FINISHED GRADE ELEVATION
TC	TOP OF CURB ELEVATION
X.X%	GRADE/SLOPE
---	EXISTING MAJOR CONTOUR
- - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
- - -	PROPOSED MINOR CONTOUR
---	GRADE BREAK
⊙	CATCH BASIN - TYPE 2
■	CATCH BASIN - TYPE 1
DS	DOWNSPOUT CONNECTION
D	STORM DRAINAGE PIPING
RD	ROOF DRAIN PIPING
FD	FOOTING DRAIN
U	PERFORATED UNDERDRAIN
H	BUILDING OVERHANG COLUMN

**GRADING NOTE**  
THE RUNNING SLOPE OF ANY WALKWAY MUST BE 5% OR LESS, OTHERWISE IT IS CONSIDERED A RAMP AND MUST MEET ADA ACCESSIBILITY GUIDELINES.



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CITY OF PUYALLUP  
ENGINEERING SERVICES  
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**City of Puyallup**  
Development & Permitting Services  
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**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

Date:	10/25/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

Revisions

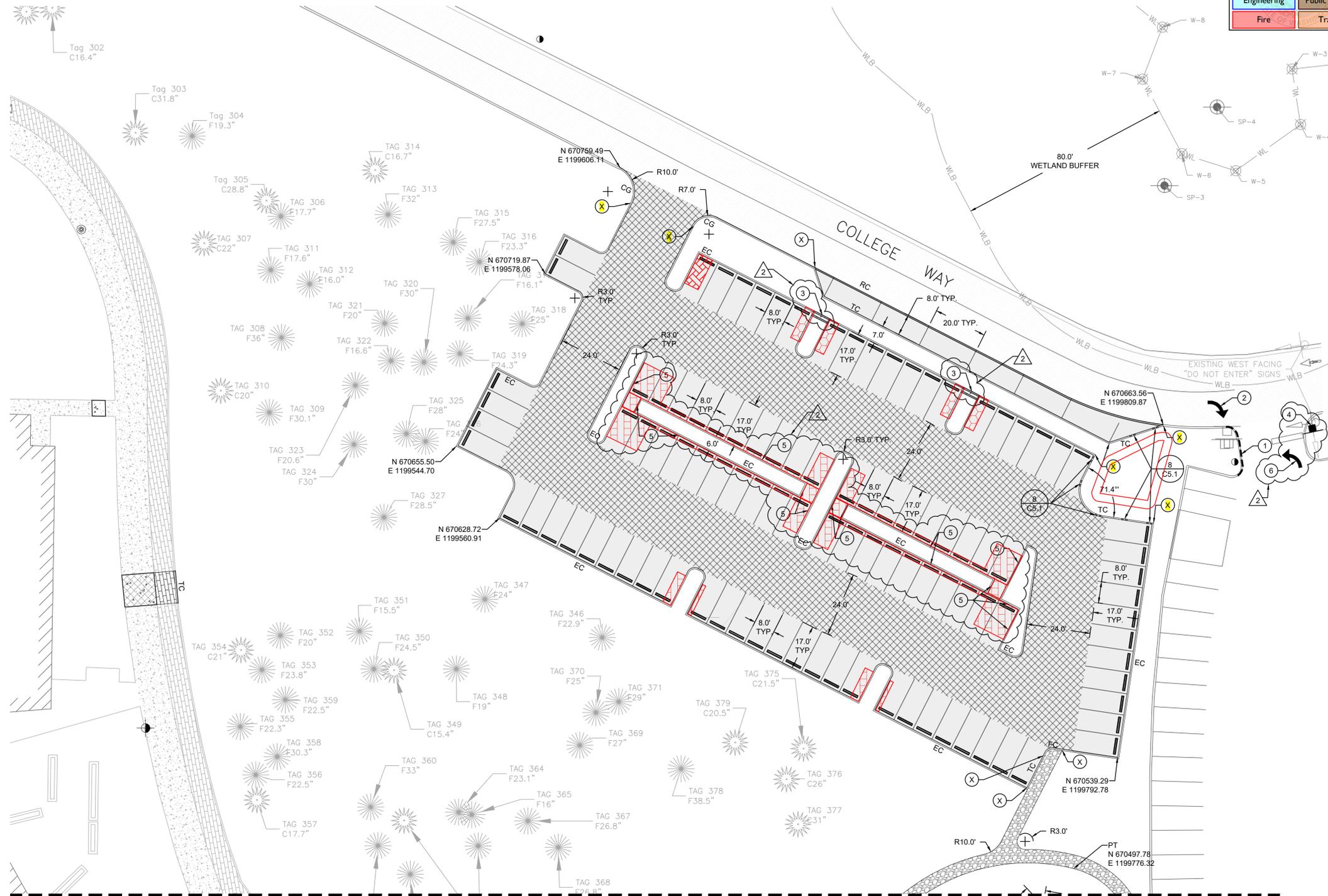
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GRADING DETAILS

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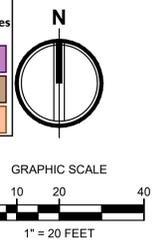
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**C3.6**



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**LEGEND:**

[Dashed line]	RIGHT-OF-WAY/PROPERTY LINE
[Solid line]	PROPOSED BUILDING OUTLINE
[Cross-hatch pattern]	ASPHALT PAVEMENT - STANDARD DUTY (1 C5.1)
[Diagonal hatch pattern]	ASPHALT PAVEMENT - HEAVY DUTY (1 C5.1)
[Dotted pattern]	CEMENT CONCRETE - STANDARD DUTY (2 C5.1)
[Horizontal hatch pattern]	CEMENT CONCRETE - HEAVY DUTY (2 C5.1)
[Vertical hatch pattern]	GRAVEL SURFACING (7 C5.1)
[Diagonal hatch pattern]	GRASSPAVE SURFACING (10 C5.1)
[Circle with dot]	BOLLARD PROTECTION. SEE LANDSCAPE FOR MORE INFORMATION.
[Solid line]	CEMENT CONCRETE WHEEL STOP (6 C5.1)
[Circle with X]	CHANGE IN CURB TYPE / END CURB
[EC]	CONCRETE EXTRUDED CURB (4 C5.1)
[IC]	INTEGRAL CURB AND SIDEWALK (3 C5.1)
[FC]	FLUSH CURB (3 C5.1)
[TC]	TRAFFIC CURB (5 C5.1)
[CG]	CONCRETE CURB AND GUTTER (9 C5.1)
[RC]	3" ROLLED CURB PER WSDOT STD DETAIL F-10.18-02, CURB 1 TYPE
[Dashed line]	PAINT TOP AND FACE OF CURB RED

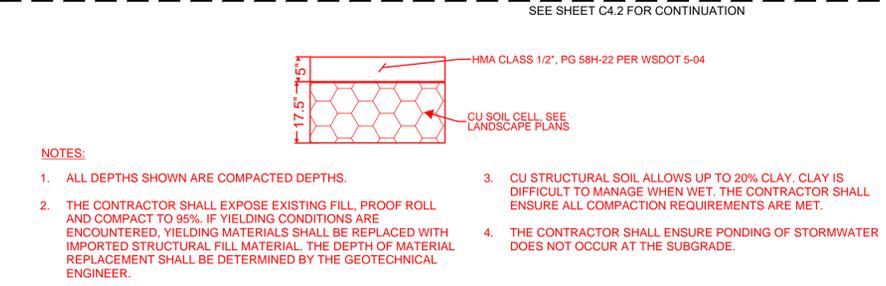
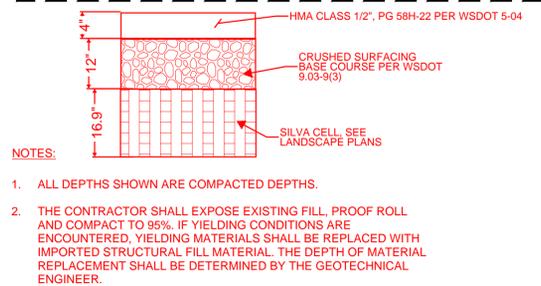
- PAVING NOTES**
- THE EXISTING SITE SOILS REQUIRE PROPER COMPACTION PRIOR TO PLACEMENT OF PAVING AND UTILITY IMPROVEMENTS.
  - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL PAVED AND NON-PAVED AREAS, AND SHALL GRADE ALL AREAS TO PRECLUDE PONDING OF SURFACE WATER.
  - SEE ARCHITECT'S AND LANDSCAPE ARCHITECT'S PLAN FOR OTHER SITE FEATURES.

- GENERAL NOTES**
- SEE ARCHITECT'S AND LANDSCAPE ARCHITECT'S PLANS FOR ADDITIONAL SITE FEATURES.
  - SEE LANDSCAPE ARCHITECT'S PLANS FOR SPECIALTY SITE SURFACING.

- KEYNOTES:**
- PAINT TOP AND FACE OF CURB RED
  - THERMOPLASTIC TYPE 2SR TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02
  - CURB DRAINAGE OPENINGS AT PARKING ISLAND (4 C5.4)
  - MUTCD R3-5L LEFT TURN ONLY SIGN, MOUNTED ON EXISTING POST
  - ASPHALT THICKENED EDGE (5 C5.5)
  - THERMOPLASTIC TYPE 2SL TRAFFIC ARROW PER WSDOT STANDARD PLAN M-24.40-02

**LEGEND:**

[Cross-hatch pattern]	ASPHALT PAVEMENT OVER SILVA CELL (1 C4.1)
[Diagonal hatch pattern]	ASPHALT PAVEMENT OVER CU SOIL CELL (2 C4.1)



- NOTES:**
- ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
  - THE CONTRACTOR SHALL EXPOSE EXISTING FILL, PROOF ROLL AND COMPACT TO 95%. IF YIELDING CONDITIONS ARE ENCOUNTERED, YIELDING MATERIALS SHALL BE REPLACED WITH IMPORTED STRUCTURAL FILL MATERIAL. THE DEPTH OF MATERIAL REPLACEMENT SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
  - CU STRUCTURAL SOIL ALLOWS UP TO 20% CLAY. CLAY IS DIFFICULT TO MANAGE WHEN WET. THE CONTRACTOR SHALL ENSURE ALL COMPACTION REQUIREMENTS ARE MET.
  - THE CONTRACTOR SHALL ENSURE PONDING OF STORMWATER DOES NOT OCCUR AT THE SUBGRADE.

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**STATE PROJECT NO.: 2020-148**  
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**NEW STEM BUILDING**  
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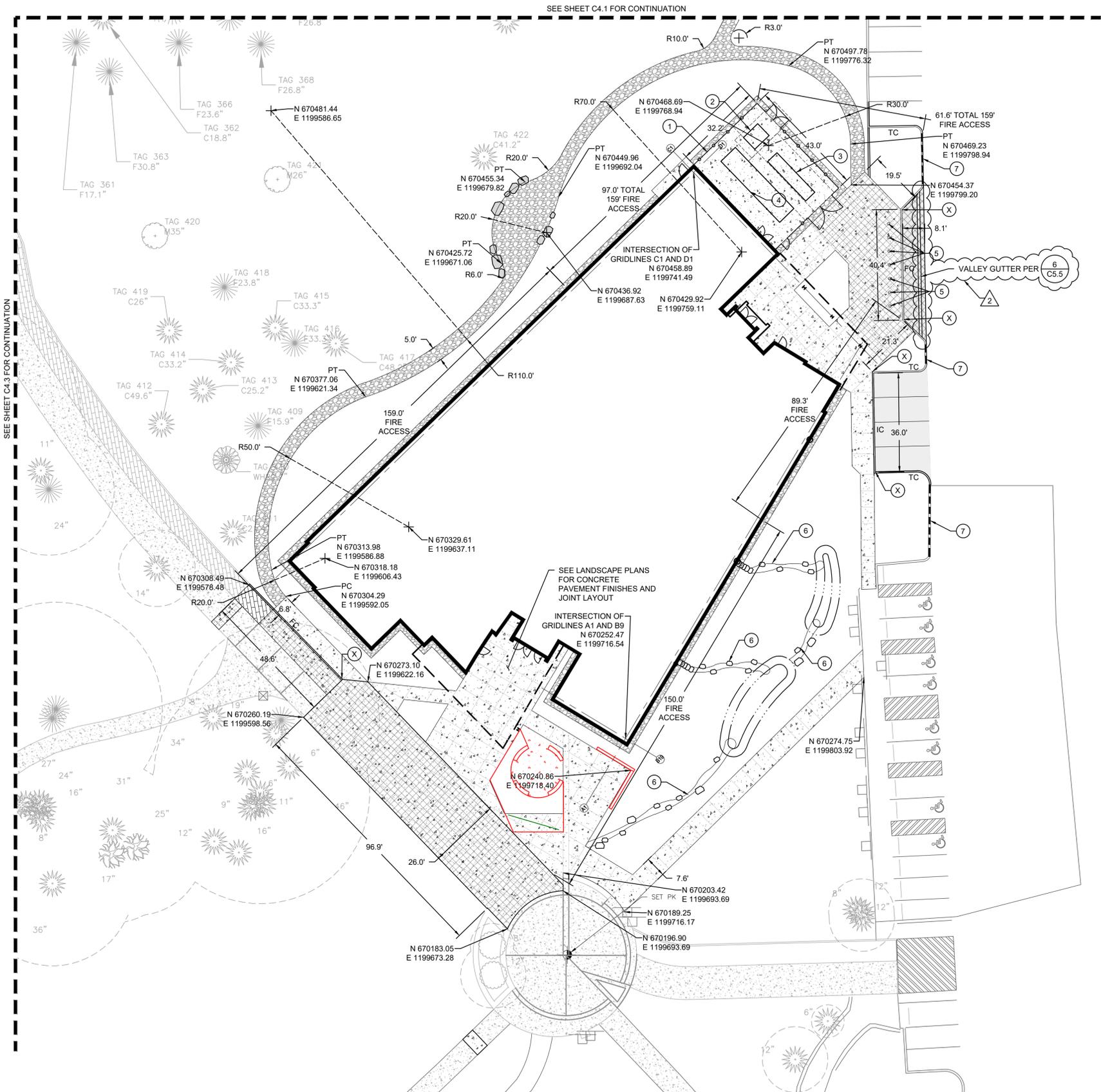
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PAVING AND HORIZONTAL CONTROL PLAN

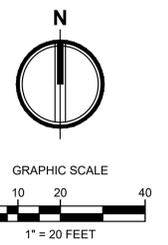
**C4.1**

SITE PERMIT SET



**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



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BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: **11/08/2022**

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**LEGEND:**

- RIGHT-OF-WAY/PROPERTY LINE
- PROPOSED BUILDING OUTLINE
- ASPHALT PAVEMENT - STANDARD DUTY (1 C5.1)
- ASPHALT PAVEMENT - HEAVY DUTY (1 C5.1)
- CEMENT CONCRETE - STANDARD DUTY (2 C5.1)
- CEMENT CONCRETE - HEAVY DUTY (2 C5.1)
- GRAVEL SURFACING (7 C5.1)
- GRASSPAVE SURFACING (10 C5.1)
- BOLLARD PROTECTION
- CEMENT CONCRETE WHEEL STOP (6 C5.1)
- (X) CHANGE IN CURB TYPE / END CURB
- EC CONCRETE EXTRUDED CURB (4 C5.1)
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- FC FLUSH CURB (3 C5.1)
- TC TRAFFIC CURB (5 C5.1)
- CG CONCRETE CURB AND GUTTER (9 C5.1)
- RC 3" ROLLED CURB PER WSDOT STD DETAIL F-10.18-02, CURB 1 TYPE
- PAINT TOP AND FACE OF CURB RED

**KEYNOTES:**

- (1) FENCE, SEE LANDSCAPE ARCHITECTURAL PLANS
- (2) TRANSFORMER, SEE ELECTRICAL PLAN
- (3) GENERATOR, SEE ELECTRICAL PLAN
- (4) CHILLER, SEE MECHANICAL PLAN
- (5) BOLLARD PROTECTION, SEE LANDSCAPE FOR MORE INFORMATION
- (6) SEE LANDSCAPE ARCHITECT'S PLAN FOR SWALE AND ROCK.
- (7) PAINT TOP AND FACE OF CURB RED

**STATE PROJECT NO.: 2020-148**  
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PAVING AND HORIZONTAL CONTROL PLAN

**C4.2**

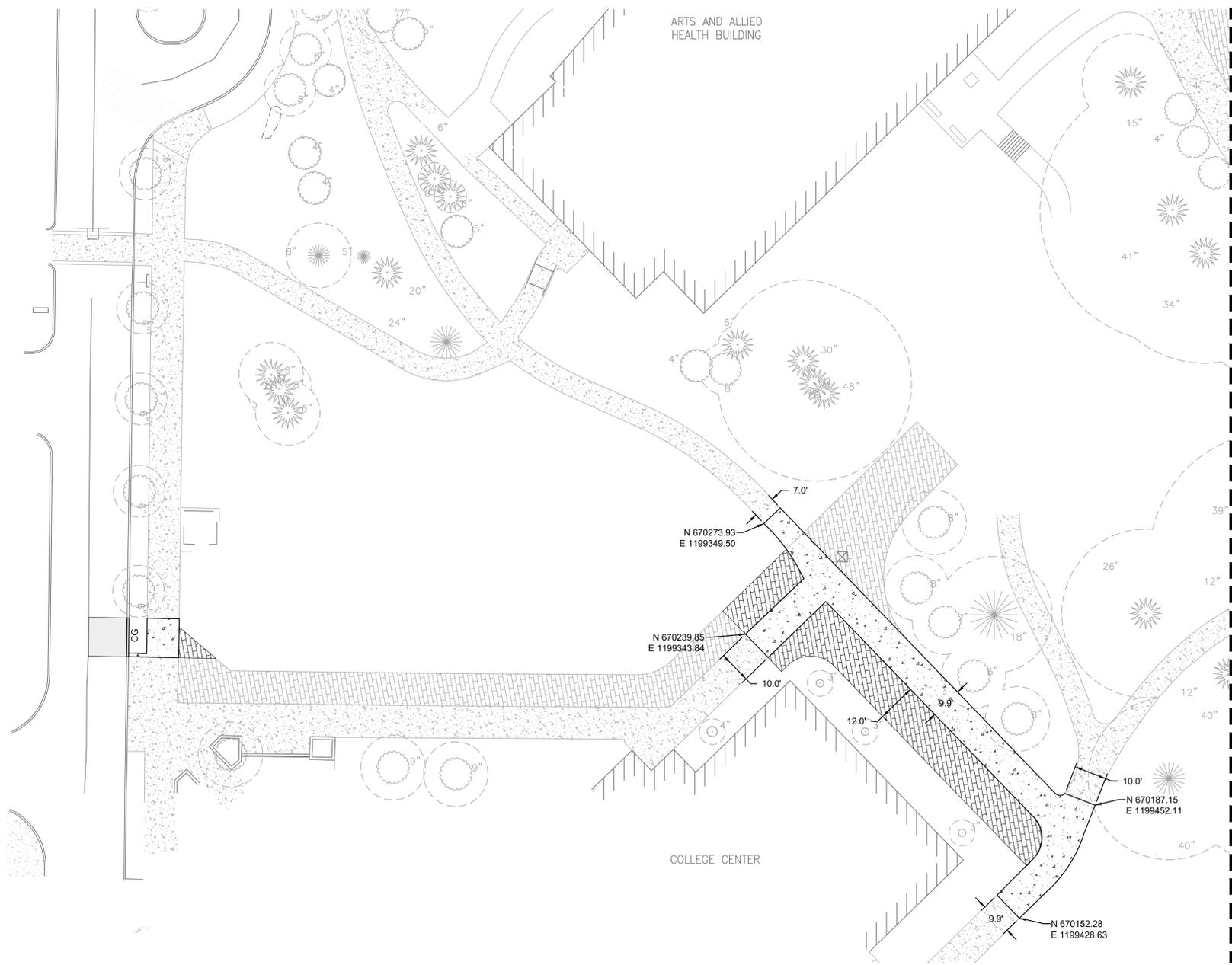
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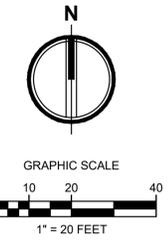
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A C O M A - SEATTLE - SPOKANE - TRICITIES  
2215 North 30th Street, Suite 300 Tacoma, WA 98403  
253.383.4222 Tel. 253.383.2972 Fax www.ahbl.com 168

**WILLIAM J. FIERST**  
STATE OF WASHINGTON  
1800 INDUSTRIAL CENTER  
PROFESSIONAL ENGINEER  
10/24/2022



**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



**APPROVED**  
BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: **11/08/2022**

**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 CITY ENGINEER

- LEGEND:**
- RIGHT-OF-WAY/PROPERTY LINE
  - PROPOSED BUILDING OUTLINE
  - ASPHALT PAVEMENT - STANDARD DUTY (1) (C5.1)
  - ASPHALT PAVEMENT - HEAVY DUTY (1) (C5.1)
  - CEMENT CONCRETE - STANDARD DUTY (2) (C5.1)
  - CEMENT CONCRETE - HEAVY DUTY (2) (C5.1)
  - GRAVEL SURFACING (7) (C5.1)
  - GRASSPAVE SURFACING (10) (C5.1)
  - o BOLLARD PROTECTION. SEE LANDSCAPE FOR MORE INFORMATION.
  - CEMENT CONCRETE WHEEL STOP (6) (C5.1)
  - (X) CHANGE IN CURB TYPE / END CURB
  - EC CONCRETE EXTRUDED CURB (4) (C5.1)
  - IC INTEGRAL CURB AND SIDEWALK (3) (C5.1)
  - FC FLUSH CURB (3) (C5.1)
  - TC TRAFFIC CURB (5) (C5.1)
  - CG CONCRETE CURB AND GUTTER (9) (C5.1)
  - RC 3" ROLLED CURB PER WSDOT STD DETAIL F-10.18-02, CURB 1 TYPE

SEE SHEET C4.2 FOR CONTINUATION

**integrus**  
ARCHITECTURE

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**WILLIAM J. FIERST**  
STATE OF WASHINGTON  
1800  
PROFESSIONAL ENGINEER

10/24/2022

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

Date: 10/25/22  
Job No.: 22135.00  
Drawn By: C. HOVDE  
Checked by: W. FIERST

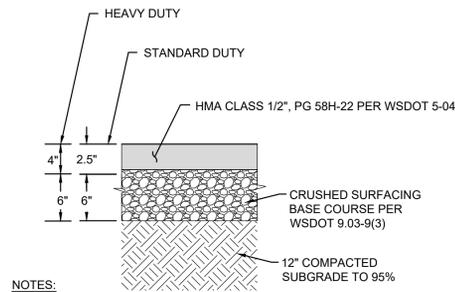
Revisions		
#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

PAVING AND  
HORIZONTAL  
CONTROL PLAN

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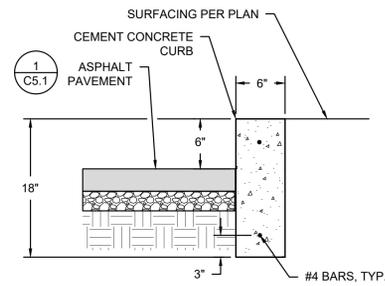
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**C4.3**

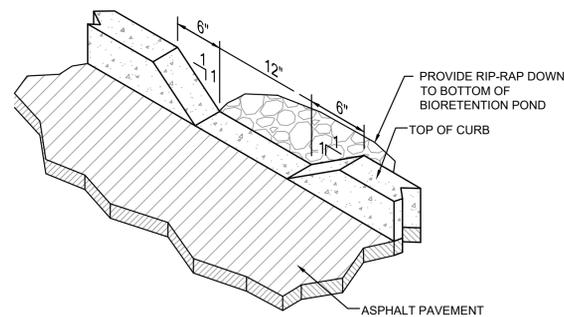


- NOTES:
1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
  2. THE CONTRACTOR SHALL EXPOSE EXISTING FILL, PROOF ROLL AND COMPACT TO 95%. IF YIELDING CONDITIONS ARE ENCOUNTERED, YIELDING MATERIALS SHALL BE REPLACED WITH IMPORTED STRUCTURAL FILL MATERIAL. THE DEPTH OF MATERIAL REPLACEMENT SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.

**1 ASPHALT SECTION**  
NOT TO SCALE

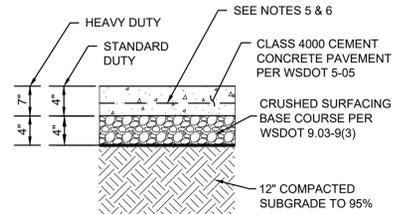


**5 TRAFFIC CURB**  
NOT TO SCALE



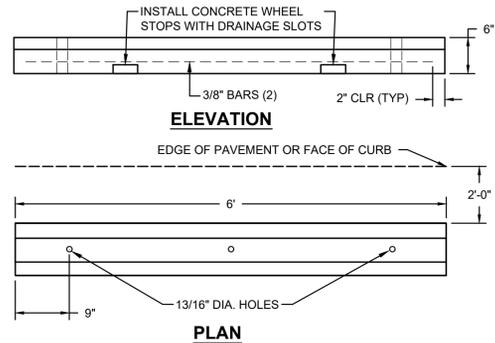
- NOTE:
1. PROVIDE CURB CUTS AT LOW POINTS AND AT 10 FEET O.C.

**8 CURB DRAINAGE OPENING**  
NOT TO SCALE

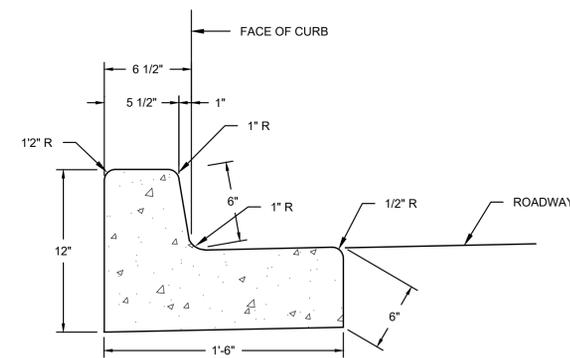


- NOTES:
1. DEPTHS ARE COMPACTED THICKNESS.
  2. DUMMY JOINTS CONSISTING OF 3/16" BE 2" PREMOLDED JOINT MATERIAL SHALL BE PLACED AT MAXIMUM 18 FOOT INTERVALS.
  3. PROVIDE A TOOLED CONSTRUCTION JOINTS MATCHING THE JOINT LAYOUT OF THE SURROUNDING CONCRETE PAVING.
  4. THE CONTRACTOR SHALL EXPOSE EXISTING FILL, PROOF ROLL AND COMPACT TO 95%. IF YIELDING CONDITIONS ARE ENCOUNTERED, YIELDING MATERIALS SHALL BE REPLACED WITH IMPORTED STRUCTURAL FILL MATERIAL. THE DEPTH OF MATERIAL REPLACEMENT SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER.
  5. FOR STANDARD DUTY CONCRETE USE 6 X 6 X 1.4 X 1.4 WELDED WIRE FABRIC REINFORCEMENT AT CENTERLINE.
  6. FOR HEAVY DUTY CONCRETE USE 6 X 6 X 2.9 X 2.9 WELDED WIRE FABRIC REINFORCEMENT AT CENTERLINE.
  7. FOR HEAVY DUTY CONCRETE PAVEMENT CONTRACTION AND CONSTRUCTION JOINTS PROVIDE SMOOTH DOWELS SPACED 18-INCHES O.C. THE DOWELS SHALL BE NO. 10 BAR 30-INCHES LONG.

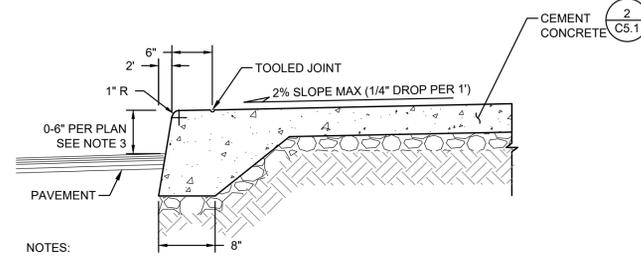
**2 CONCRETE SECTION**  
NOT TO SCALE



**6 WHEELSTOP**  
NOT TO SCALE

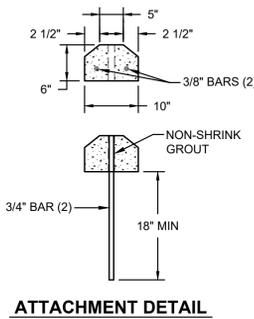


**9 CURB AND GUTTER**  
NOT TO SCALE



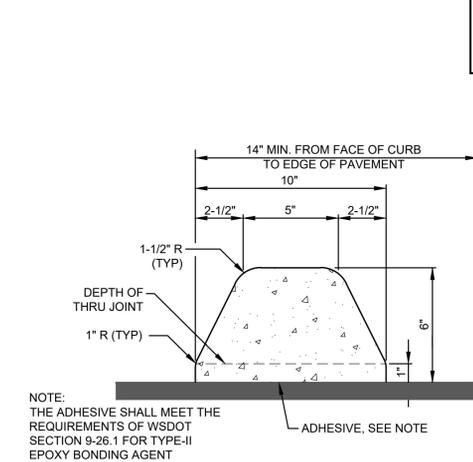
- NOTES:
1. SUBGRADE COMPACTION FOR CONCRETE CURB AND WALKS SHALL BE 95% OF MAXIMUM DENSITY.
  2. EXPANSION JOINTS CONSISTING OF 3/16" BY 2" PREMOLDED JOINT MATERIAL SHALL BE PLACED AT 15 FOOT INTERVALS. SEALED WITH POLYURETHANE TO MATCH WALK COLOR.
  3. FLUSH CURB SHALL BE 0" IN HEIGHT. TYPICAL INTEGRAL CURB VARIES PER PLAN.

**3 INEGRAL CURB AND SIDEWALK**  
NOT TO SCALE



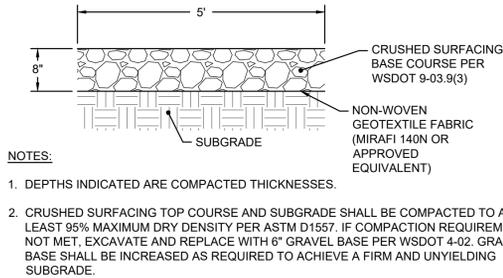
- NOTES:
1. THE NON-SHRINK GROUT USED TO ATTACH THE PRECAST CURB SHALL CONSIST OF 3:1 SAND AND CEMENT. GROUT TO A DEPTH OF 1" FROM THE TOP OF THE BUMPER.
  2. LOCATIONS FOR WEEPHOLES, AND V-SLOTS SHALL BE IDENTIFIED ON THE DELIVERY ORDER DRAWINGS.
  3. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

**ATTACHMENT DETAIL**



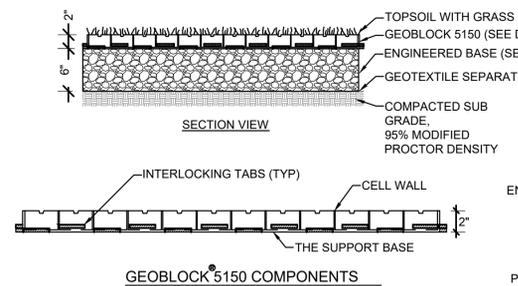
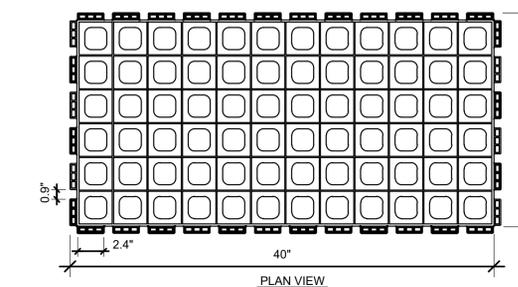
- NOTE:
- THE ADHESIVE SHALL MEET THE REQUIREMENTS OF WSDOT SECTION 9-26.1 FOR TYPE-II EPOXY BONDING AGENT

**4 EXTRUDED CURB**  
NOT TO SCALE



- NOTES:
1. DEPTHS INDICATED ARE COMPACTED THICKNESSES.
  2. CRUSHED SURFACING TOP COURSE AND SUBGRADE SHALL BE COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY PER ASTM D1557. IF COMPACTION REQUIREMENT IS NOT MET, EXCAVATE AND REPLACE WITH 6" GRAVEL BASE PER WSDOT 4-02. GRAVEL BASE SHALL BE INCREASED AS REQUIRED TO ACHIEVE A FIRM AND UNYIELDING SUBGRADE.

**7 GRAVEL SECTION**  
NOT TO SCALE



**10 GRASSPAVE**  
NOT TO SCALE

- NOTES:
1. ENGINEERED BASE IS A HOMOGENOUS MIXTURE CONSISTING OF CRUSHED ROCK HAVING AN AASHTO # 5 OR SIMILAR DESIGNATION BLENDED WITH PULVERIZED TOPSOIL AND VOID COMPONENT GENERALLY CONTAINING AIR AND/OR WATER. THIS HOMOGENOUS MIXTURE WILL PROMOTE VEGETATIVE GROWTH AND PROVIDE REQUIRED STRUCTURAL SUPPORT. THE AGGREGATE PORTION SHALL HAVE A PARTICLE RANGE FROM 9.5 MM TO 25 MM (0.375 TO 1.0 IN) WITH A D50 OF 13 MM (0.5 IN). THE PERCENTAGE VOID-SPACE OF THE AGGREGATE PORTION WHEN COMPACTED SHALL BE AT LEAST 30%. THE PULVERIZED TOPSOIL PORTION SHALL EQUAL 25% +/- OF THE TOTAL VOLUME AND BE ADDED AND BLENDED TO PRODUCE A HOMOGENOUS MIXTURE PRIOR TO PLACEMENT OR WASHED INTO THE IN-PLACE COMPACTED AGGREGATE. ONCE PLACED, THE MIXTURE SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
  2. GRASS TYPE SHALL BE 20% KENTUCKY BLUEGRASS, 20% HARD FESCUE AND 60% PERENNIAL RYEGRASS.

City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED  
BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: 11/08/2022

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STATE PROJECT NO.: 2020-148  
PIERCE COLLEGE PUYALLUP  
NEW STEM BUILDING  
1601 39th AVE SE  
Puyallup, WA 98374

Date:	10/25/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

Revisions		
#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

PAVEMENT NOTES AND DETAILS

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WILLIAM J. FIERST  
STATE OF WASHINGTON  
1800  
PROFESSIONAL ENGINEER  
10/24/2022

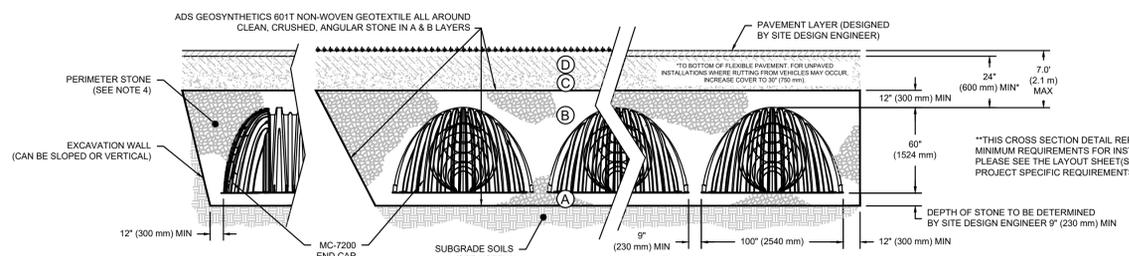
C5.1



**ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS**

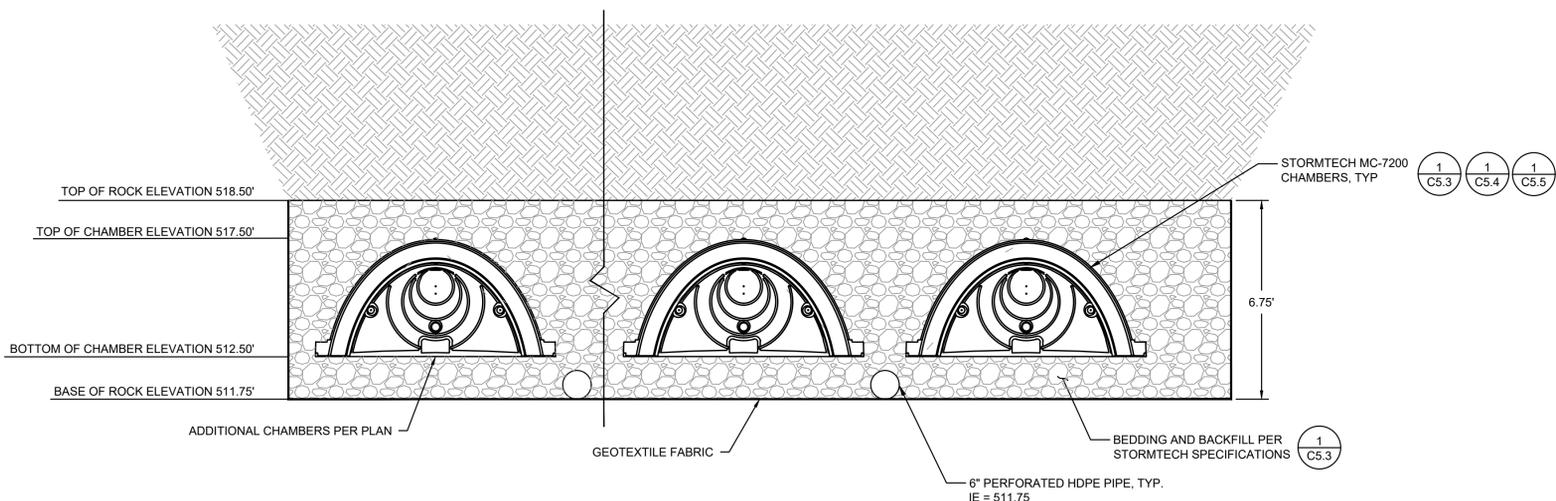
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	<b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	<b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2.4, A-3  OR AASHTO M43 <sup>2</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>3</sup> 3, 4	NO COMPACTION REQUIRED.
A	<b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>3</sup> 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

PLEASE NOTE:  
 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".  
 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.  
 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.  
 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

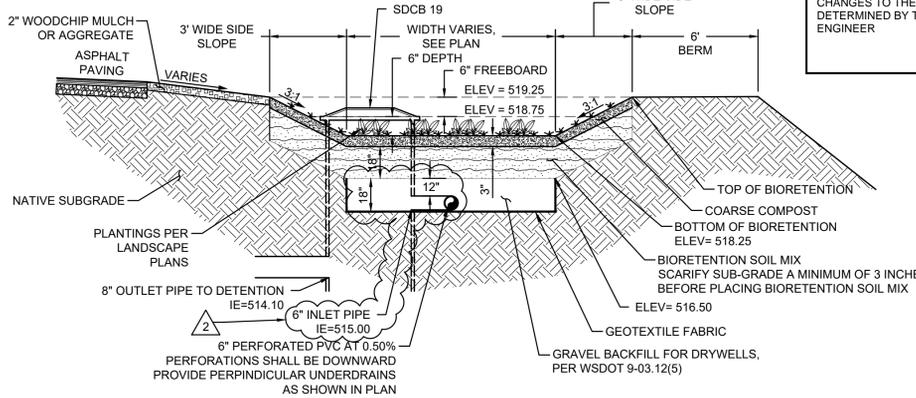


- NOTES:**
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 80x101
  - MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
  - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
  - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
  - REQUIREMENTS FOR HANDLING AND INSTALLATION:
    - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
    - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
    - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 8.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

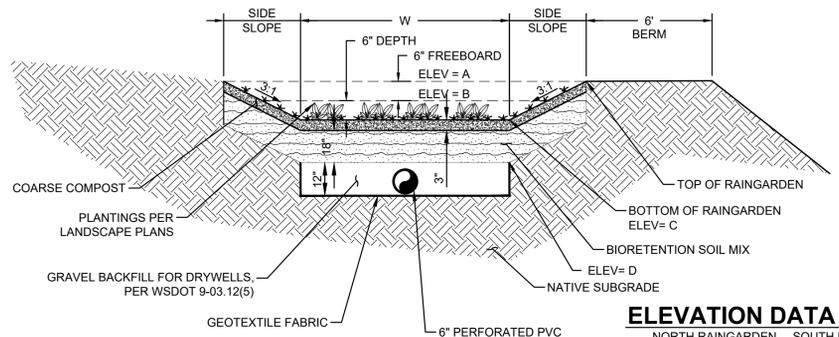
**1 STORMTECH MC-7200 CHAMBER DETAIL 1**  
NOT TO SCALE



**4 STORMTECH MC-7200 TYPICAL SECTION DETAIL**  
NOT TO SCALE



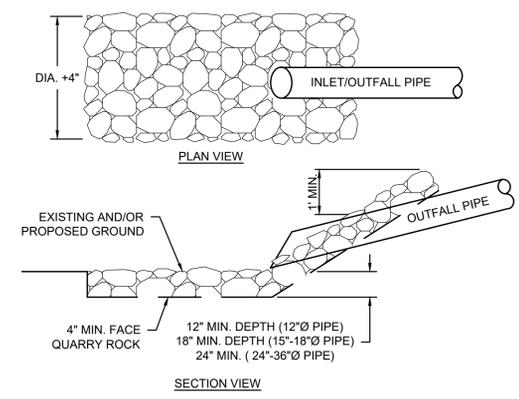
**2 TYPICAL BIORETENTION SECTION DETAIL**  
NOT TO SCALE



**ELEVATION DATA**

	NORTH RAINGARDEN	SOUTH RAINGARDEN
A	525.75	528.80
B	525.25	528.30
C	524.80	527.80
D	523.05	526.05

**3 TYPICAL RAINGARDEN SECTION DETAIL**  
NOT TO SCALE



**5 ROCK OUTFALL PROTECTION**  
NOT TO SCALE

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022  
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**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

PIERCE COUNTY NEW STEM BUILDING  
 EAST BED & WEST BED  
 PUYALLUP, WA

DATE: 2/23/22 DRAWN: MAD  
 PROJECT #: S202751 CHECKED: JMO

StormTech Chamber System  
 888-892-2804 | WWW.STORMTECH.COM

4660 TRUBMAN BLVD  
 HILLING, OH 44826

4 SHEET OF 6

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 2215 North 30th Street, Suite 300 Tacoma, WA 98403  
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**WILLIAM J. FIERST**  
 STATE OF WASHINGTON  
 PROFESSIONAL ENGINEER  
 10/24/2022

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 10/25/22  
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Revisions

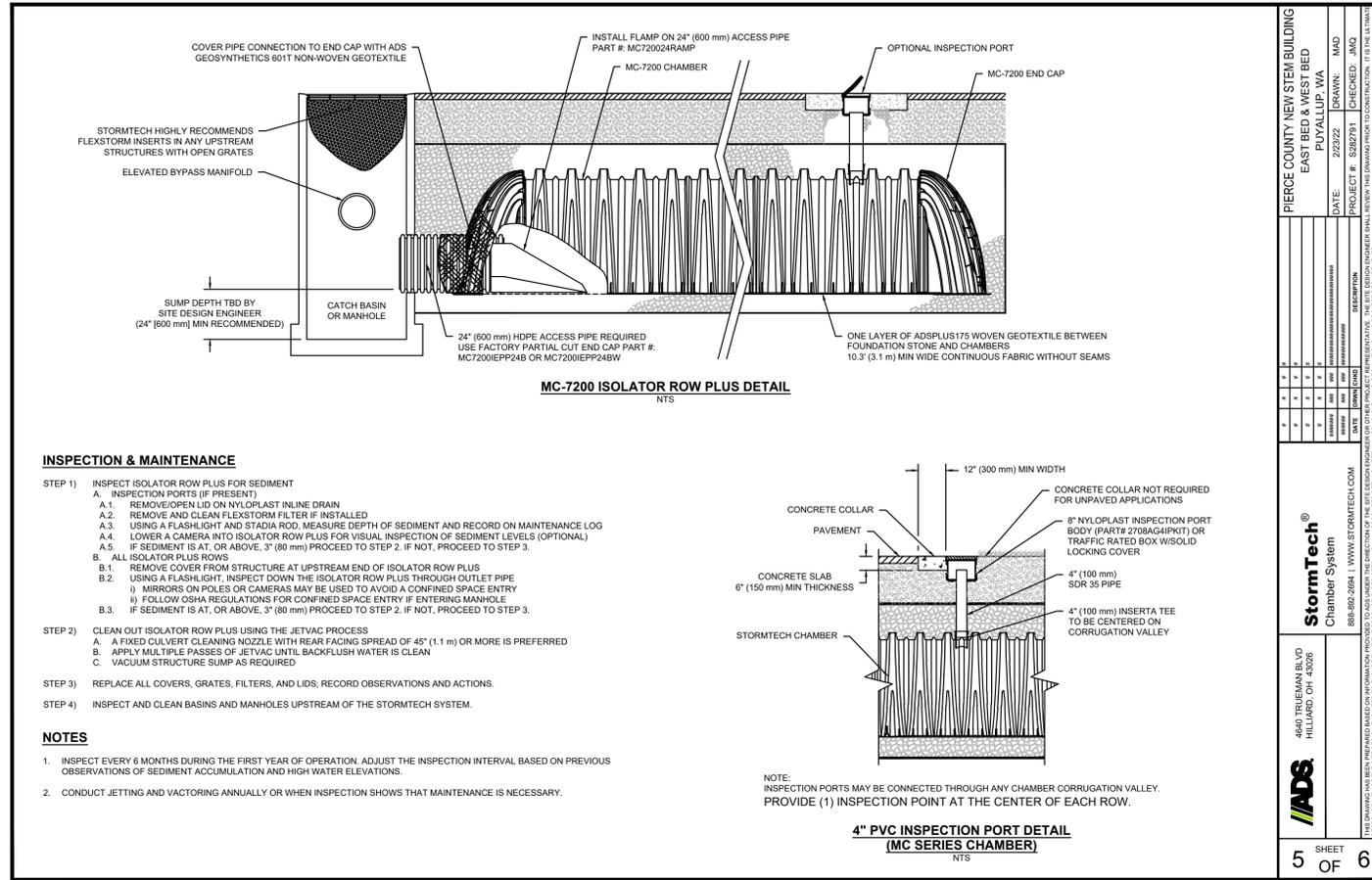
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STORM DRAINAGE NOTES AND DETAILS

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**C5.3**

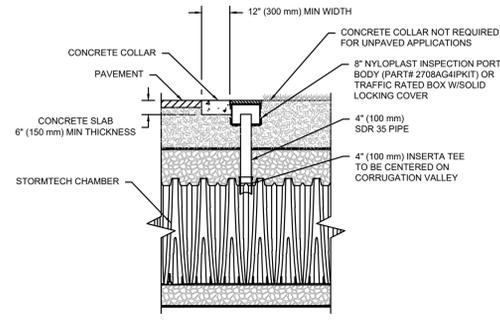


**INSPECTION & MAINTENANCE**

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
    - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
    - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
    - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
    - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
    - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  - B. ALL ISOLATOR PLUS ROWS
    - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
    - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
      - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
      - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
    - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



**4\"/>**

NOTE: INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY. PROVIDE (1) INSPECTION POINT AT THE CENTER OF EACH ROW.

PIERCE COUNTY NEW STEM BUILDING  
EAST BED & WEST BED  
PUYALLUP, WA

DATE: 2/23/22  
DRAWN: MAD  
CHECKED: JMO  
PROJECT #: S282781

StormTech  
Chamber System  
660 TRULMAN BLVD  
HILLIARD, OH 43226  
888-892-2684 | WWW.STORMTECH.COM

ADS  
4500 TRULMAN BLVD  
HILLIARD, OH 43226  
888-892-2684 | WWW.ADS-USA.COM

5 SHEET OF 6

**STORMWATER MANAGEMENT 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").
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. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
11. CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL), VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
  - a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
  - b. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
  - c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
  - d. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
  - e. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3-FEET.
15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

**APPROVED**

BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES

DATE: 11/08/2022

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 CITY ENGINEER

**City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT**

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117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA 98104  
TELEPHONE: (206) 467-1137 FAX: (206) 467-1131

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A C O M A - SEATTLE - SPOKANE - TRICITIES

2215 North 30th Street, Suite 300 Tacoma, WA 98403  
253.383.4222 Tel. 253.383.2572 Fax www.ahbl.com

**WILLIAM J. FIERST**  
STATE OF WASHINGTON  
PROFESSIONAL ENGINEER  
10/24/2022

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

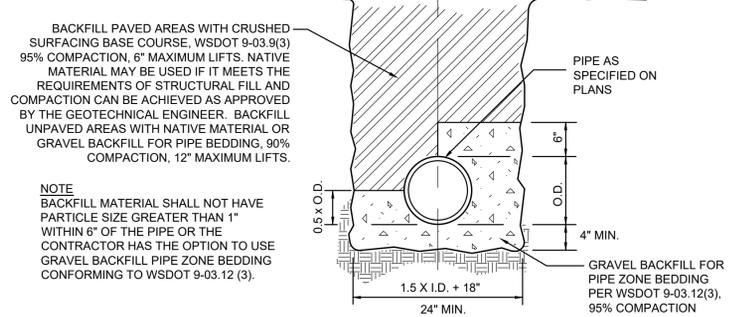
Date: 10/25/22  
Job No.: 22135.00  
Drawn By: C. HOVDE  
Checked by: W. FIERST

Revisions		
#	Date	Description
1	08/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

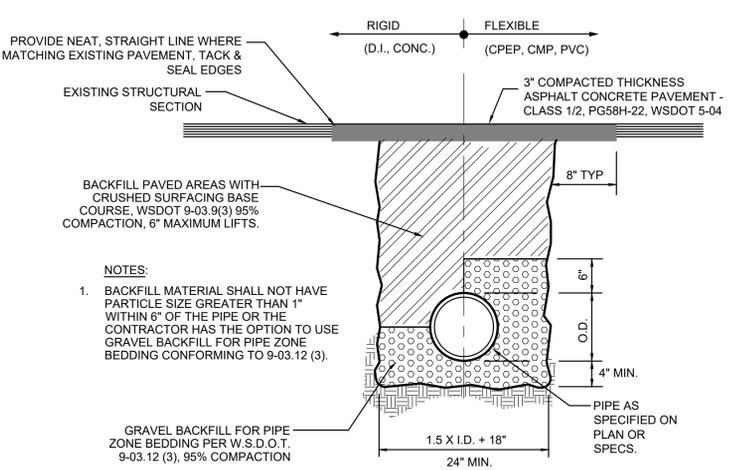
STORM DRAINAGE NOTES AND DETAILS

**C5.4**

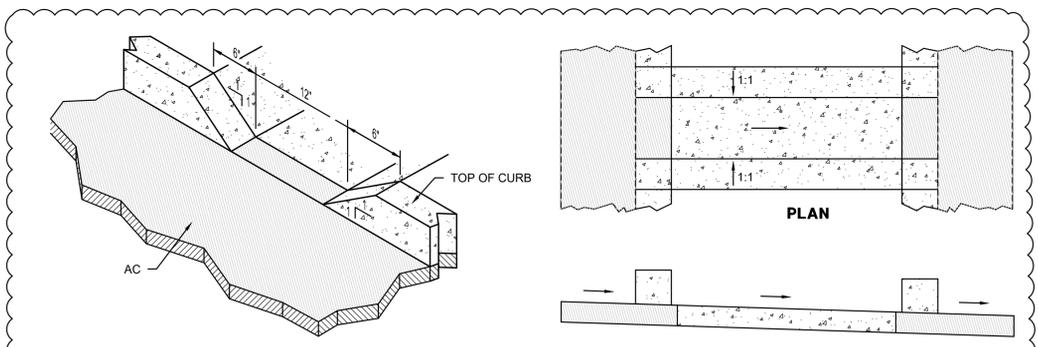
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**2 PIPE BEDDING AND BACKFILL IN TRENCHES**  
NOT TO SCALE



**3 PAVEMENT PATCHING AND TRENCH DETAIL**  
NOT TO SCALE

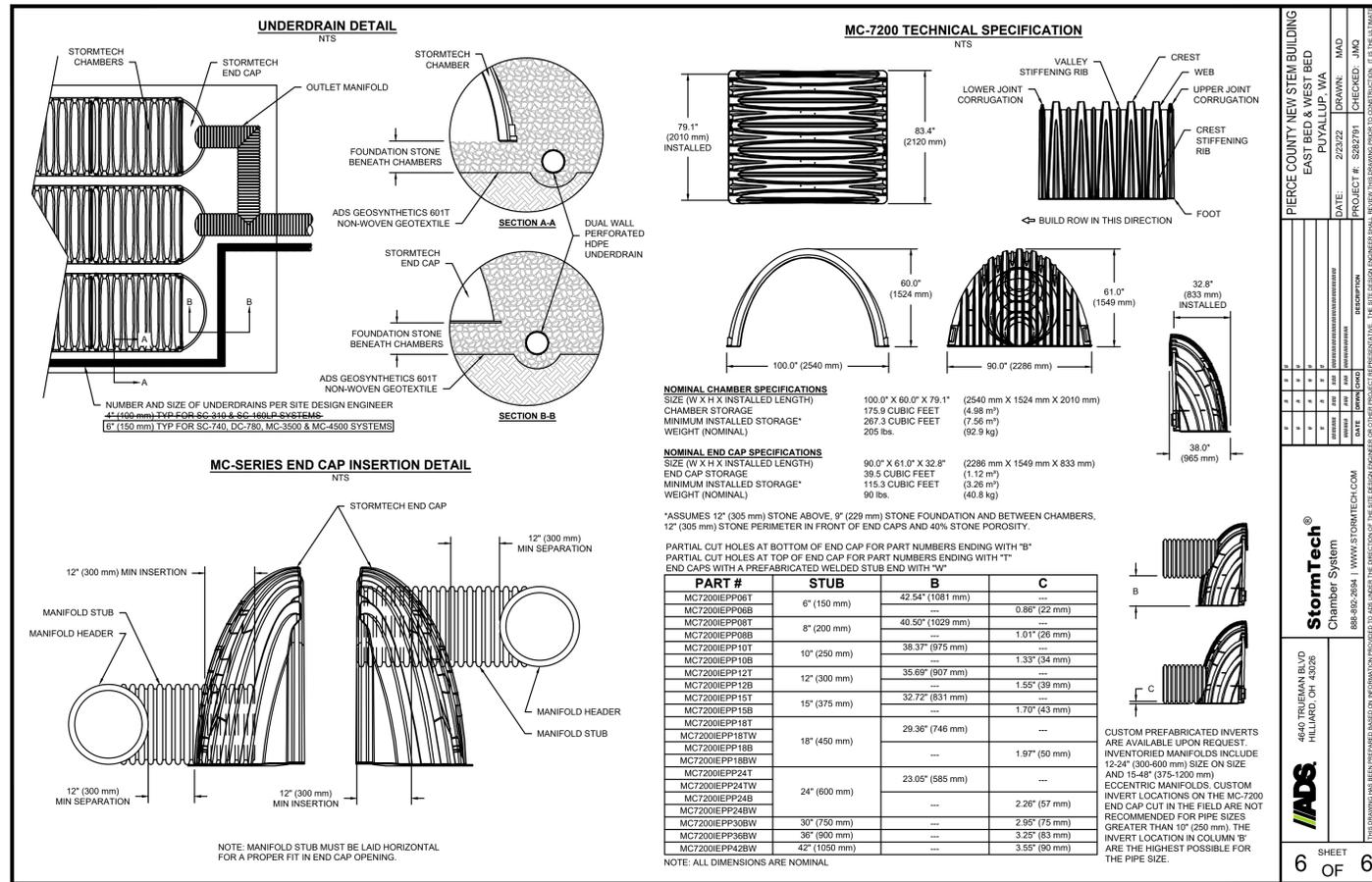


**4 CURB DRAINAGE OPENING AT PARKING ISLAND**  
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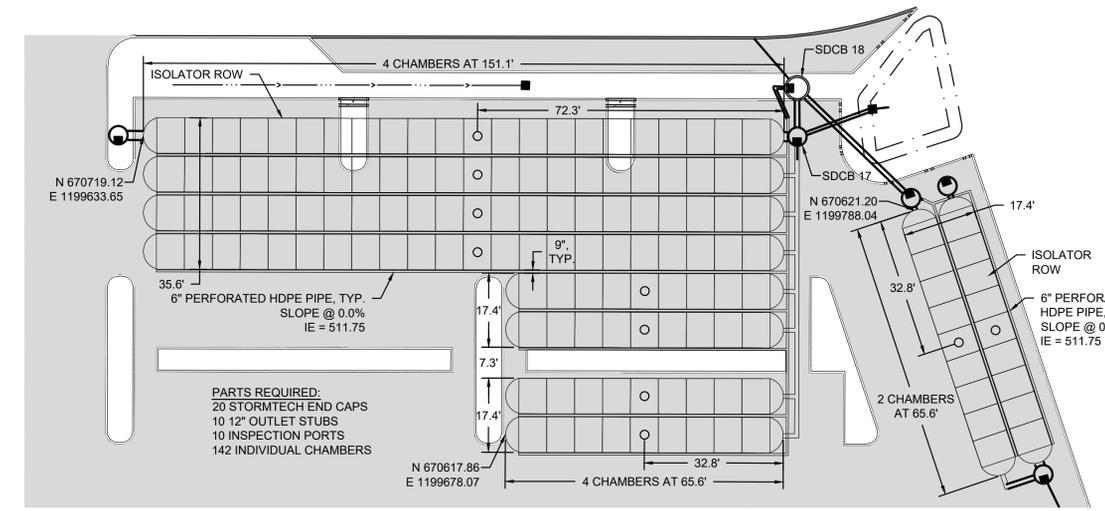
NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

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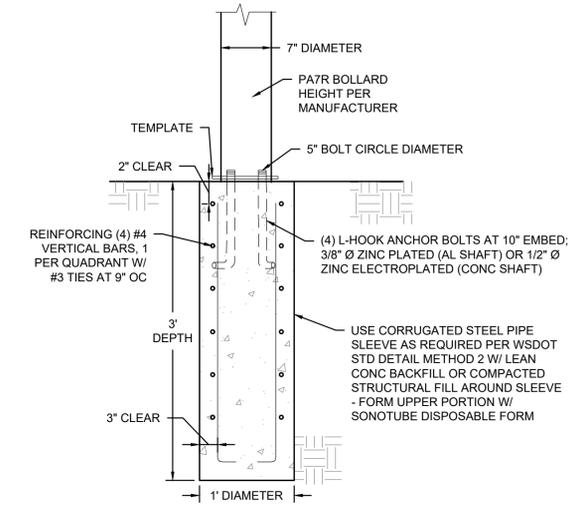
SITE PERMIT SET



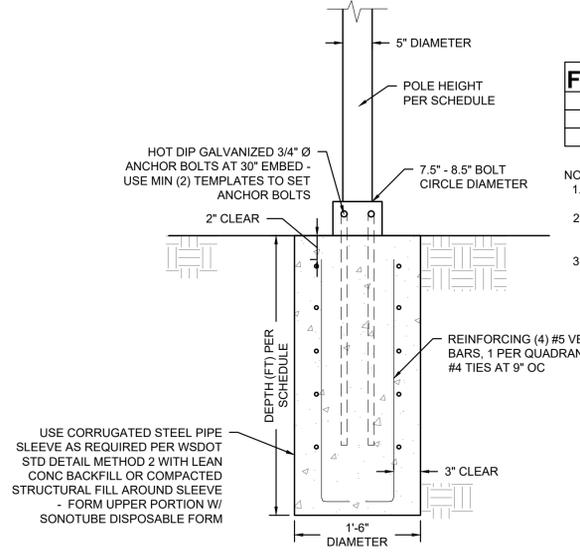
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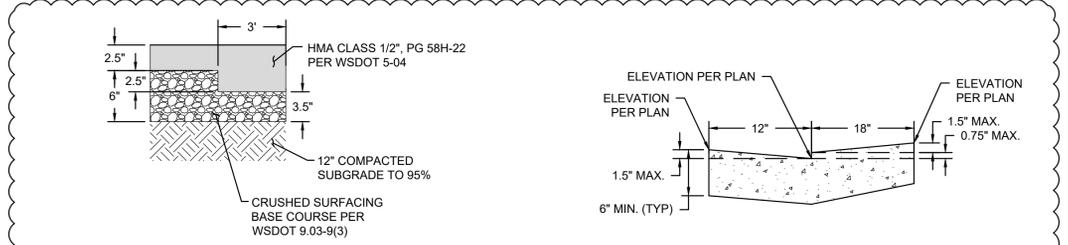
2 DETENTION SYSTEM  
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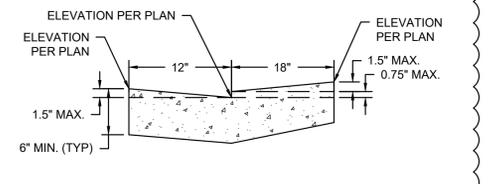
3 PEDESTRIAN BOLLARD FOUNDATION  
NOT TO SCALE



4 LIGHTPOLE FOUNDATION DETAIL  
NOT TO SCALE



5 ASPHALT THICKENED EDGE  
NOT TO SCALE



6 VALLEY GUTTER  
NOT TO SCALE

APPROVED  
 BY: [Signature]  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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 CITY ENGINEER

City of Puyallup  
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WILLIAM J. FIERST  
 STATE OF WASHINGTON  
 1800 INDUSTRIAL CENTER  
 PROFESSIONAL ENGINEER  
 10/24/2022

STATE PROJECT NO.: 2020-148  
 PIERCE COLLEGE PUYALLUP  
 NEW STEM BUILDING  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 10/25/22  
 Job No.: 22135.00  
 Drawn By: C. HOVDE  
 Checked by: W. FIERST

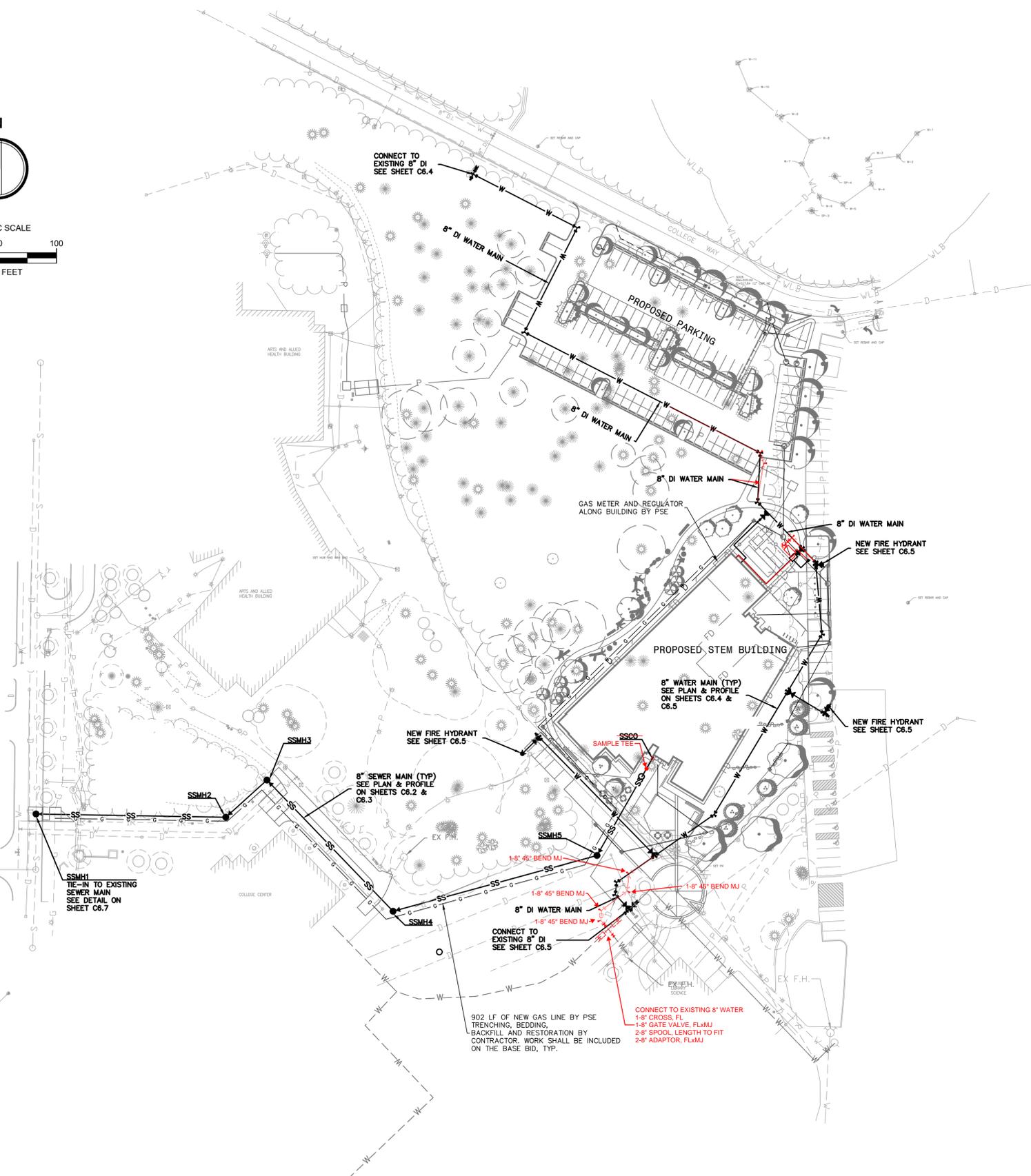
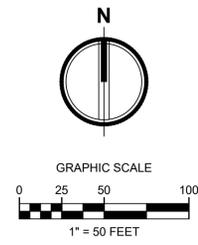
#	Date	Description
1	09/19/22	PERMIT RESUBMITTAL
2	10/25/22	PERMIT RESUBMITTAL

STORM DRAINAGE NOTES AND DETAILS

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C5.5



**LEGEND:**

- STORM DRAIN MANHOLE
- STORM CATCH BASIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- POWER VAULT
- STREET LIGHT ON UTILITY POLE
- LIGHT
- ELECTRICAL JUNCTION BOX
- TELEPHONE MANHOLE
- TELEPHONE JUNCTION BOX
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- SIGN
- HANDICAPPED PARKING
- 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 FIRE HYDRANT ASSEMBLY PER COP STD DTL 03.05.01
- PROPOSED GATE VALVE
- PROPOSED WATER MAIN
- PROPOSED GAS MAIN

**APPROVED**

BY:

CITY OF PUYALLUP  
ENGINEERING SERVICES

DATE: **11/08/2022**

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**City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**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 INCHES.
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.

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**integrus**  
ARCHITECTURE



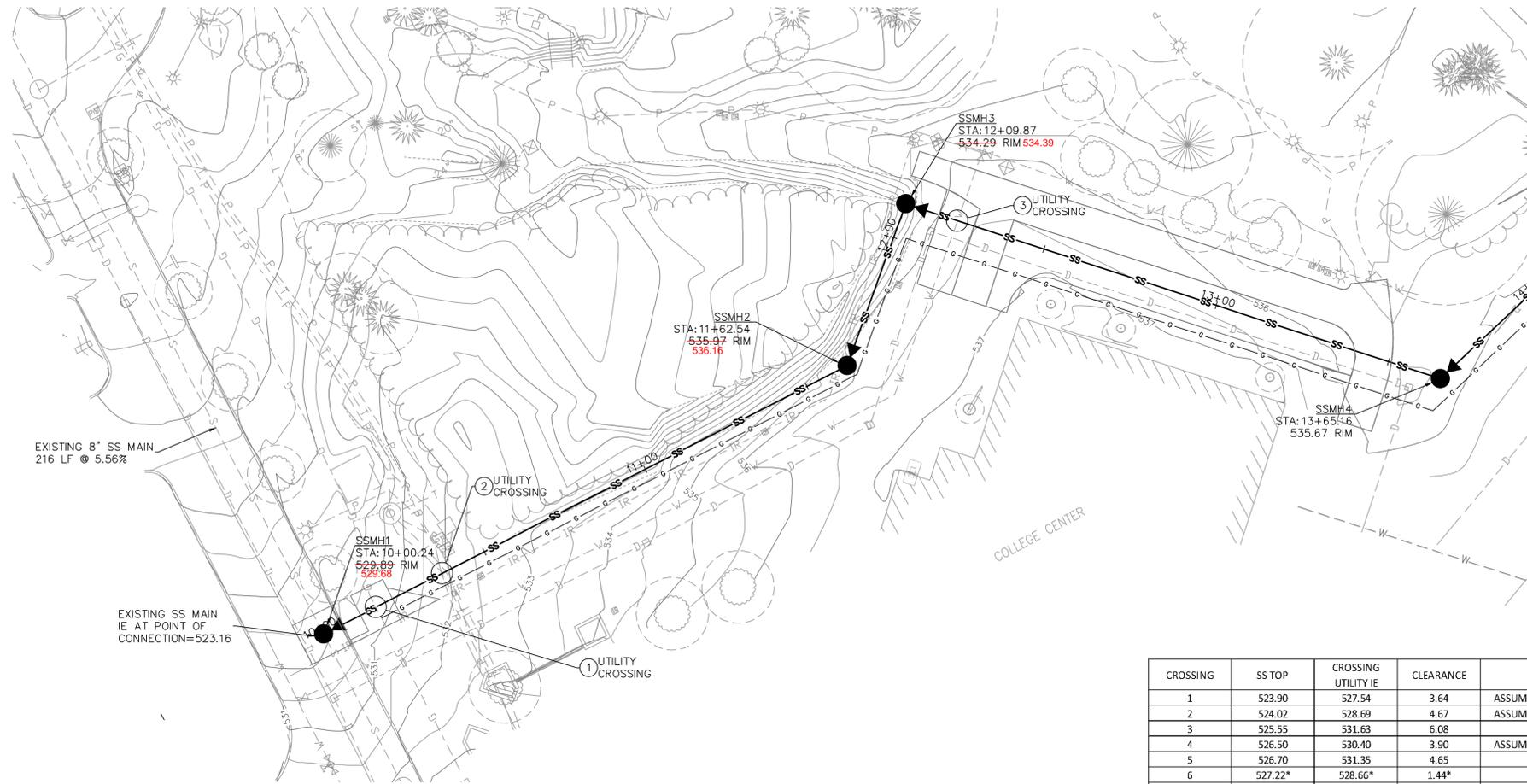
**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

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

Revisions		
#	Date	Description
1	8/19/22	REVISIONS

PROPOSED  
SANITARY SEWER  
AND WATER  
OVERALL PLAN

C6.1

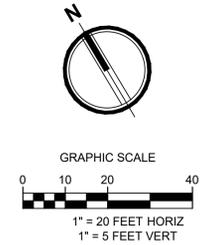


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 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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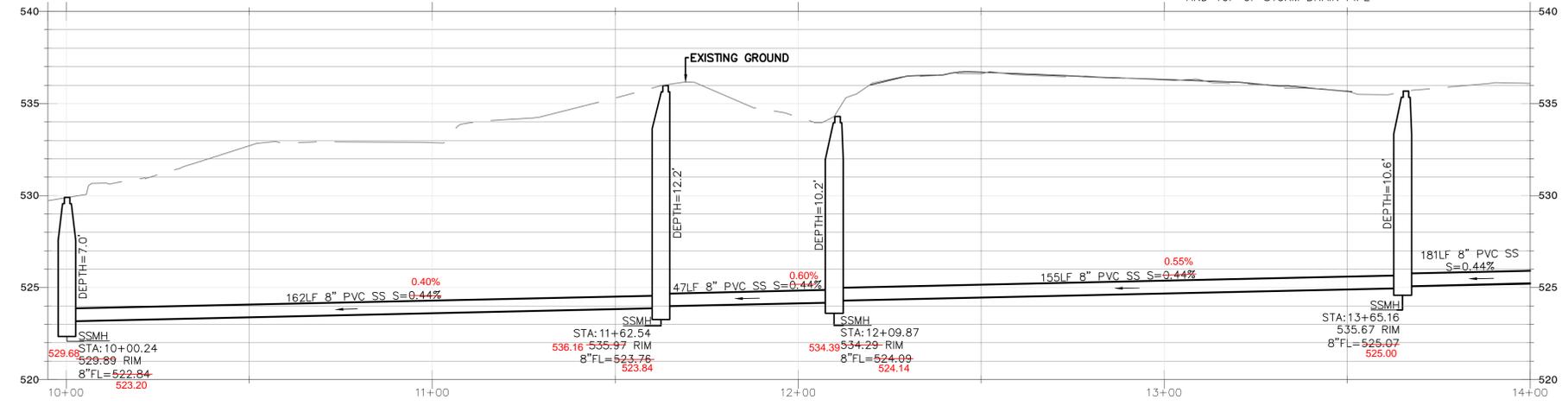
City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



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



**integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA, 98104  
 TELEPHONE: (206) 276-3137 FAX: (206) 276-3138



**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

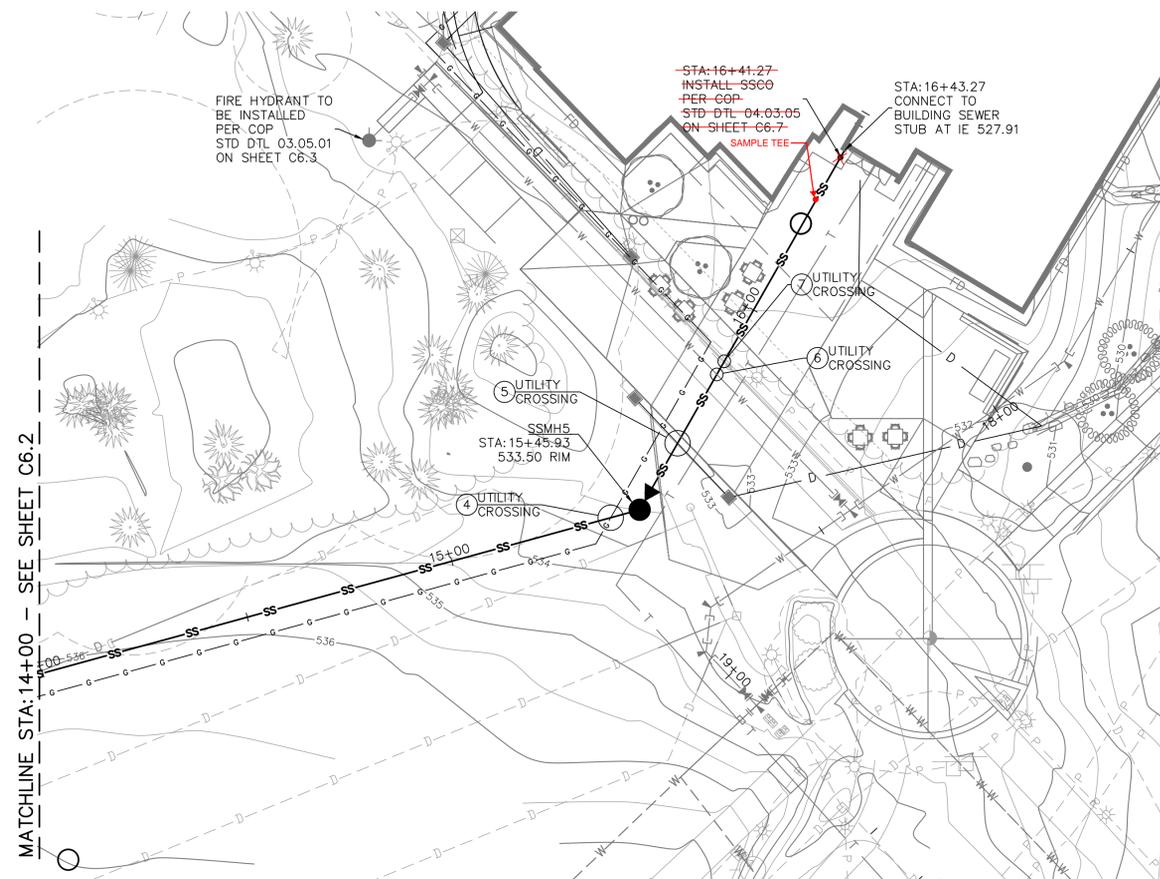
Date: 08/19/22  
 Job No.: 22135.00  
 Drawn By: E.Rivera  
 Checked by: K.Lauzen

#	Date	Description
1	8/19/22	REVISIONS

PROPOSED  
 SANITARY SEWER  
 MAIN PLAN &  
 PROFILE

**C6.2**

NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

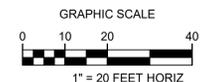


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 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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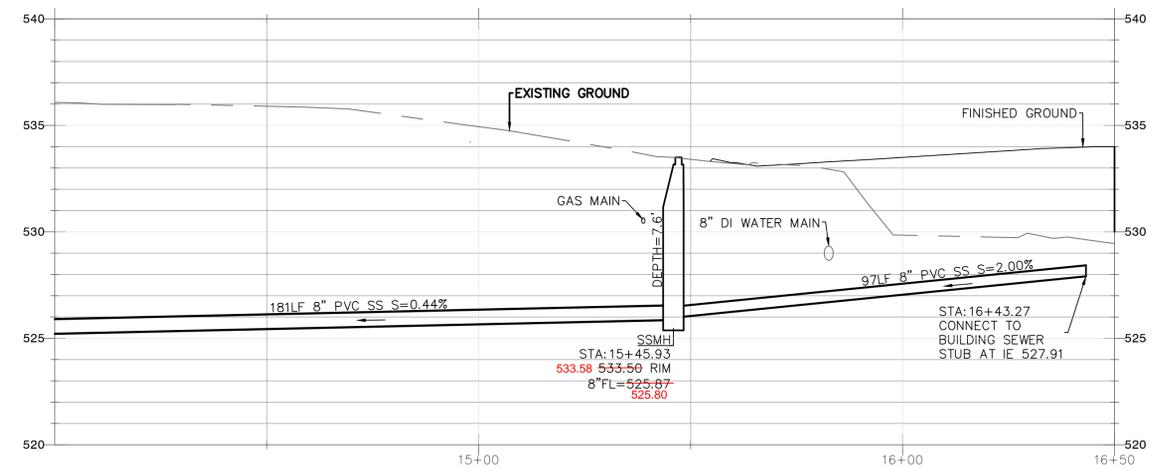
City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



CROSSING	SS TOP	CROSSING UTILITY IE	CLEARANCE	NOTES
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\* PROPOSED WATER MAIN IS ABOVE PROPOSED CROSSING UTILITY; ELEVATIONS SHOWN ARE BOTTOM OF WATER PIPE AND TOP OF STORM DRAIN PIPE



NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

**integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA, 98104  
 TELEPHONE: (206) 467-1137 FAX: (206) 467-1138



**STATE PROJECT NO.: 2020-148**  
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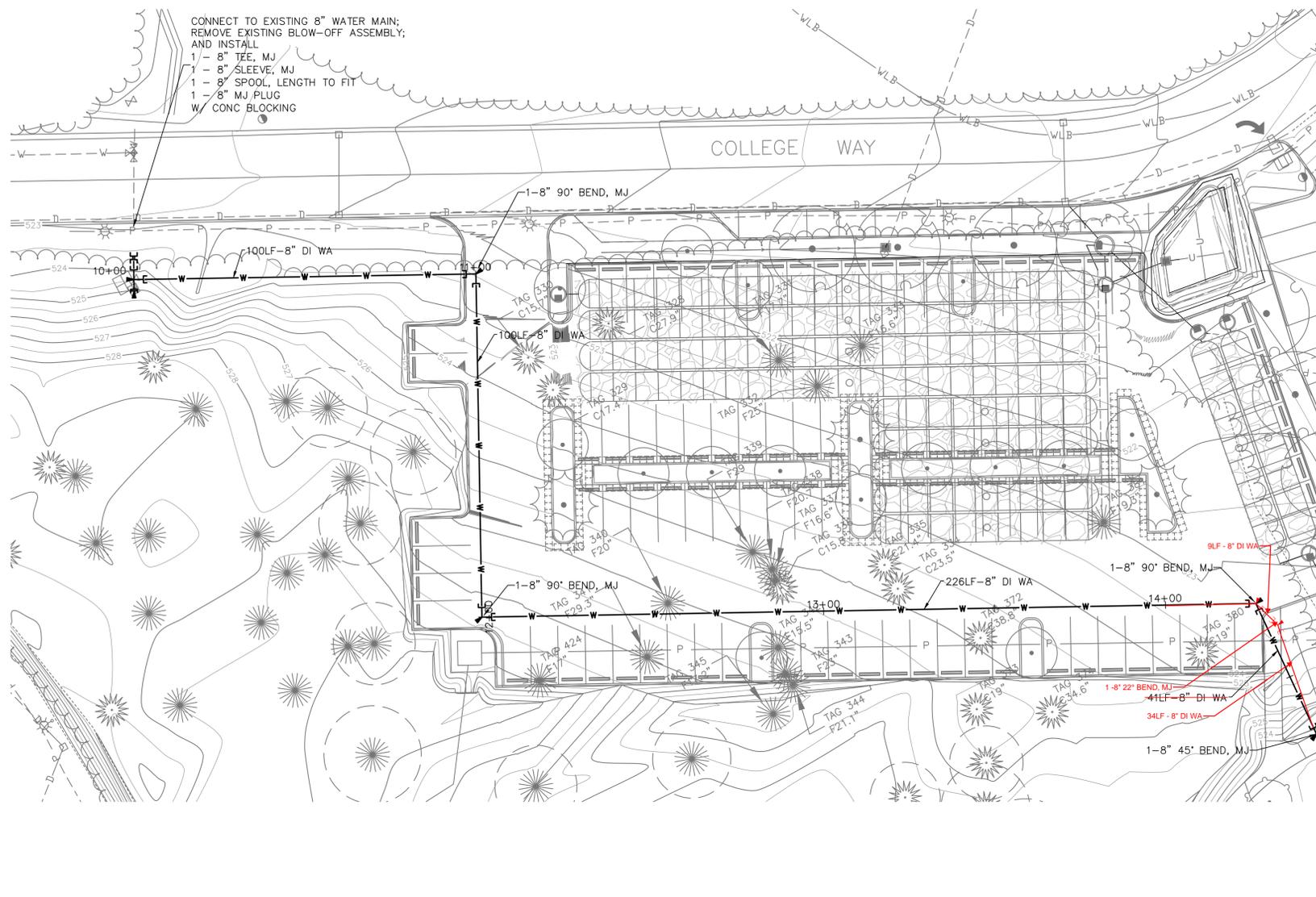
Date: 08/19/22  
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Revisions

#	Date	Description
1	8/19/22	REVISIONS

PROPOSED  
 SANITARY SEWER  
 MAIN PLAN &  
 PROFILE

**C6.3**



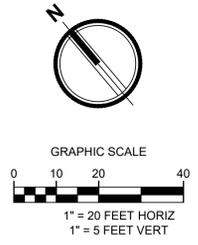
CONNECT TO EXISTING 8" WATER MAIN;  
 REMOVE EXISTING BLOW-OFF ASSEMBLY;  
 AND INSTALL  
 1- 8" TEE, MJ  
 1- 8" SLEEVE, MJ  
 1- 8" SPOOL, LENGTH TO FIT  
 1- 8" MJ PLUG  
 W/ CONC BLOCKING

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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 CITY  
 ENGINEER

City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



**integrus**  
 ARCHITECTURE



**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

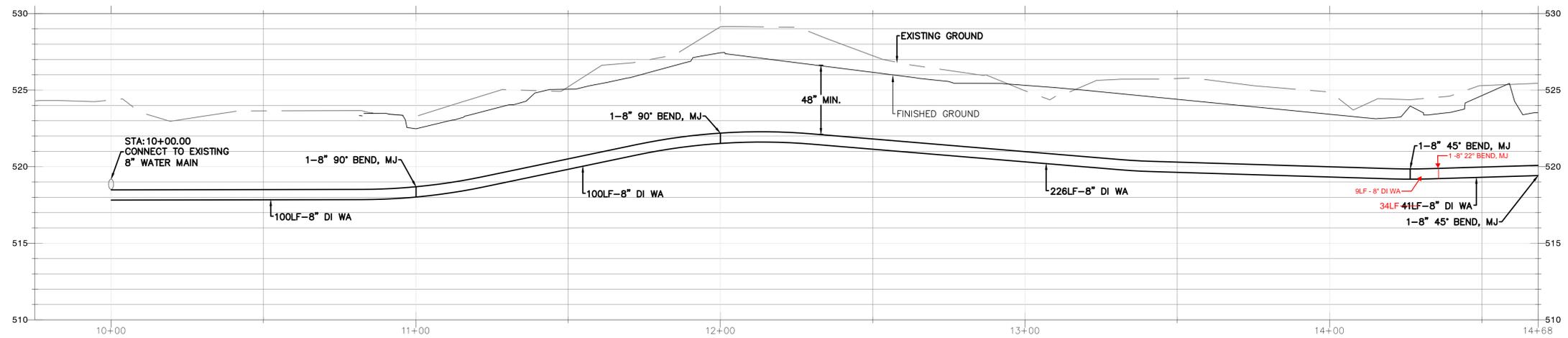
Date: 08/19/22  
 Job No.: 22135.00  
 Drawn By: E.Rivera  
 Checked by: K.Lauzen

Revisions

#	Date	Description
1	8/19/22	REVISIONS

PROPOSED WATER  
 MAIN PLAN &  
 PROFILE

**C6.4**



NOTE: THESE PLANS ARE RECORD  
 DRAWINGS, AND THE INFORMATION  
 SHOWN ACCURATELY REFLECTS  
 EXISTING FIELD CONDITIONS AS OF  
 THIS DATE: APRIL 01, 2025.

SITE PERMIT SET

MATCHLINE STA:16+75 - SEE LEFT

**APPROVED**  
 BY: *[Signature]*  
 CITY OF PUYALLUP  
 ENGINEERING SERVICES  
 DATE: 11/08/2022

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City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA, 98104  
 TELEPHONE: (206) 467-1137 FAX: (206) 467-1138

10/25/22

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 08/19/22  
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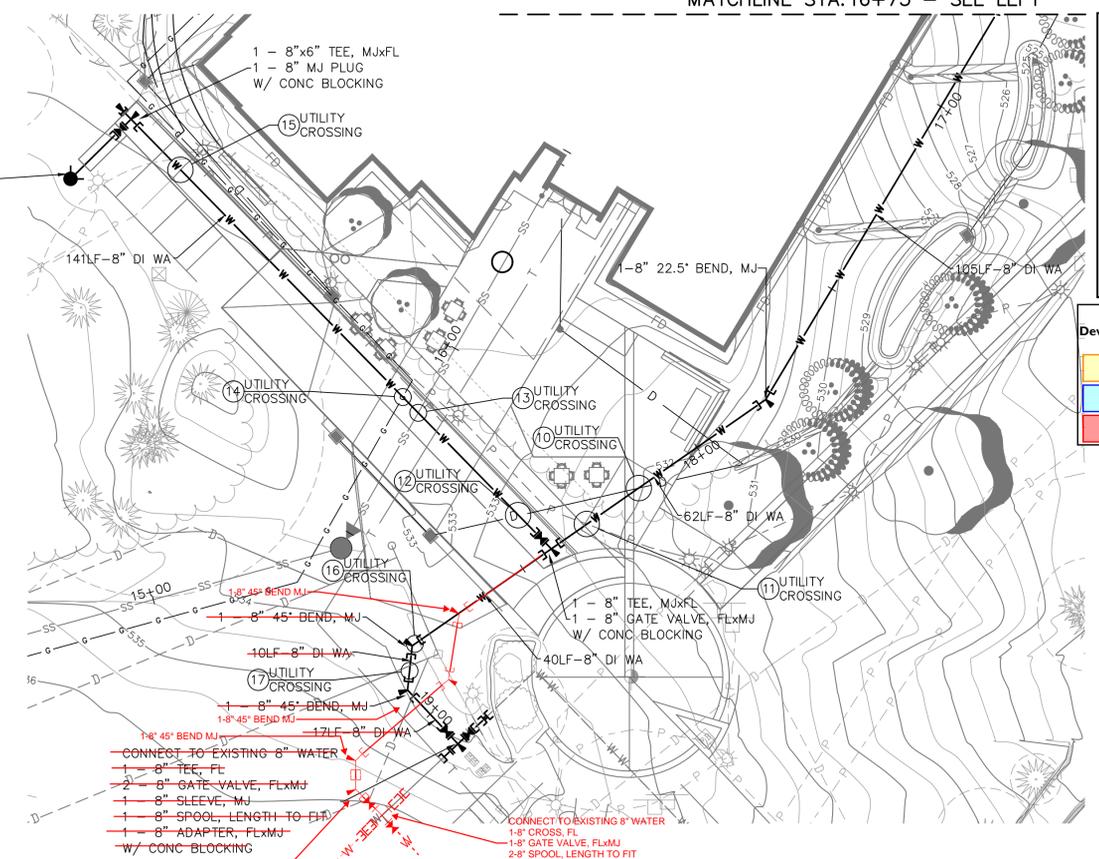
#	Date	Description
1	8/19/22	REVISIONS

PROPOSED WATER MAIN PLAN & PROFILE

**C6.5**

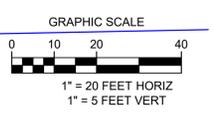
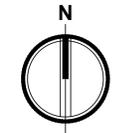
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SITE PERMIT SET

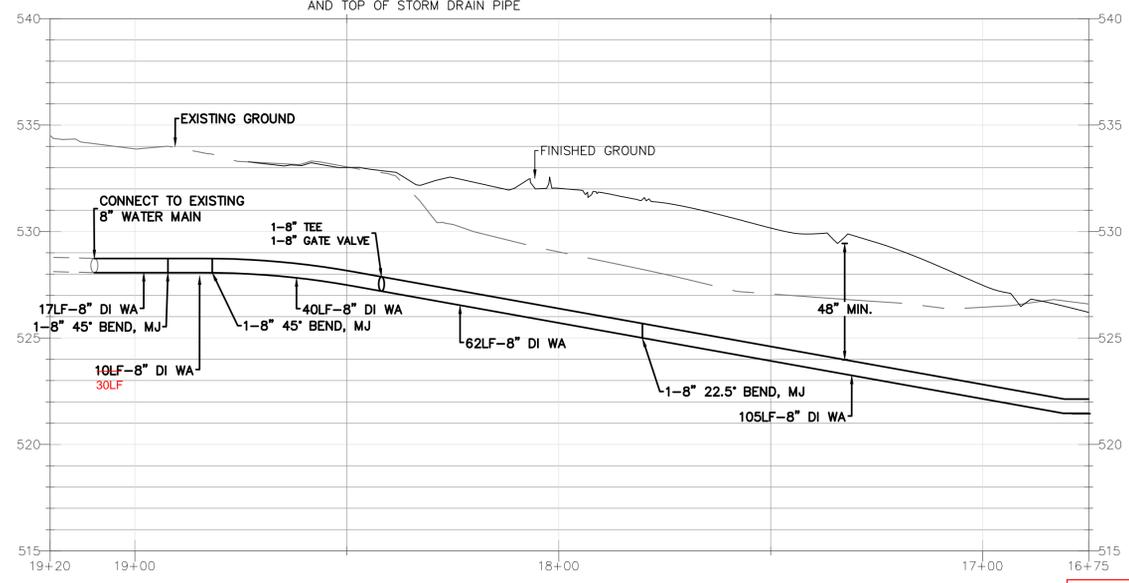
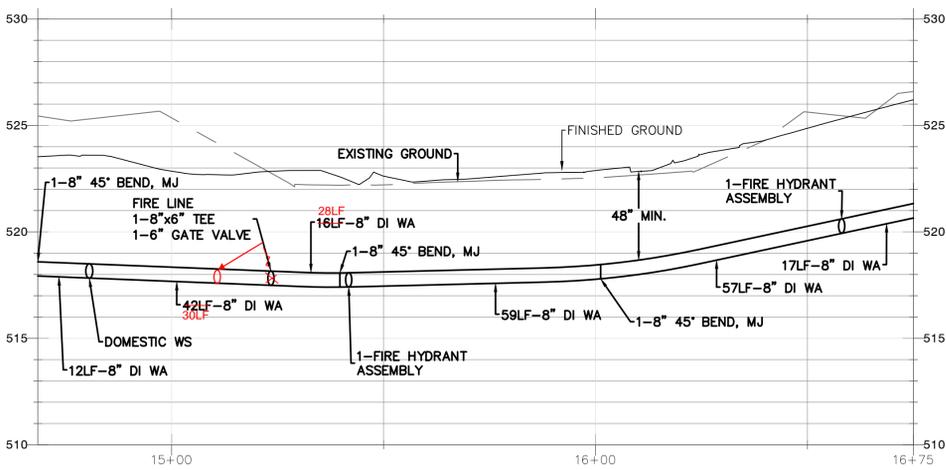
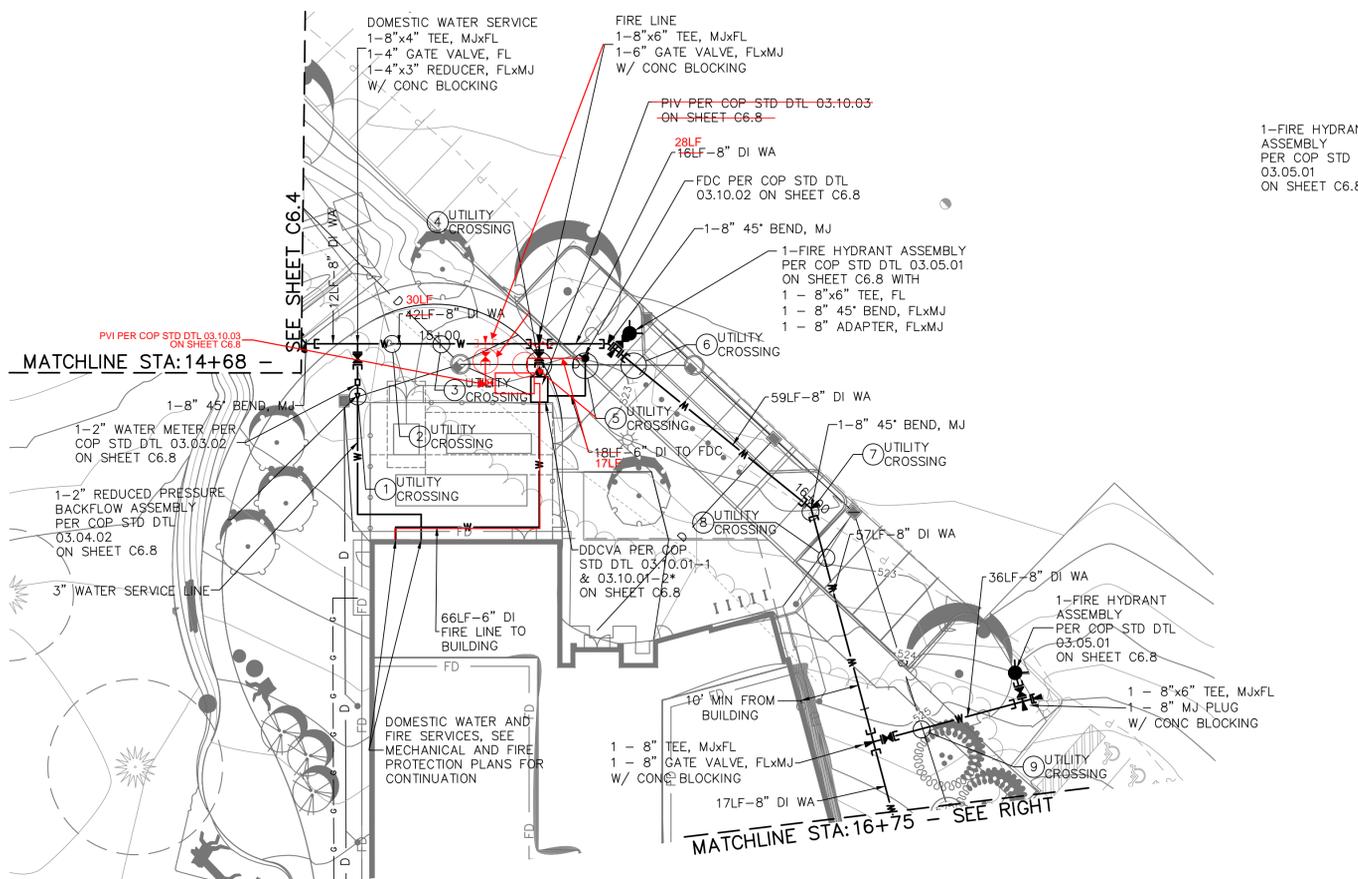
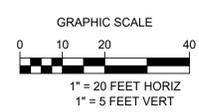


CROSSING	WATER TOP	CROSSING UTILITY IE	CLEARANCE	NOTES
1	519.25	519.47	0.22	
2	519.38	520.38	1.00	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
3	518.18*	516.92*	1.26*	
4	518.5 518.98*	515.64* 515.68	-1.59* 1.25	WATER ABOVE STORM DRAIN
5	518.9 518.72*	515.69* 515.63	-1.28* 1.60	WATER ABOVE STORM DRAIN
6	518.81*	515.75*	1.31*	WATER ABOVE STORM DRAIN
7	518.93	519.83	0.90	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
8	518.86	519.91	1.05	
9	520.49	520.74 520.12	-0.25 -0.37	8" FIRE HYDRANT RUN BELOW STORM DRAIN
10	528.17	530.84	2.67	
11	528.24	529.24	1.00	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
12	529.09	531.03	1.94	
13	528.66*	527.22*	1.44*	
14	529.33	532.33	3.00	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
15	529.05	532.05	3.00	ASSUMED DEPTH OF 3' FOR DRY UTILITIES
16	528.73	531.41	2.68	
17	528.73	531.67	2.94	

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



NOTE: CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION NEAR EXISTING UTILITIES SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF LOCATION DIFFERS FROM THAT SHOWN ON THE PLANS BEFORE CONTINUING WITH CONSTRUCTION.



NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

SITE PERMIT SET

## GENERAL NOTES:

- 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 APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- 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.
- 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").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE 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/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- 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.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- 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.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- AN NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- 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.

## SANITARY SEWER NOTES:

- 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.
- 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.
- 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").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- 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.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
- SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WSHA).
- 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, UNLESS OTHERWISE NOTED. 12-INCH THROUGH 30-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. 36-INCH THROUGH 60-INCH PP PIPE SHALL BE TRIPLE WALLED AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PIH WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417. TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 06.01.01. MINIMUM COVER ON PVC AND PP PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
- SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
- 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.
- 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, STEP SLOPES, OR OTHER FACTORS.
- 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.
- 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.
- 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.

406.1 CLEANING  
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)(c).

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.
- 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:

- 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 APPROVED 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.
- 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.
- 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 (VM), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VM 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.
- 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.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VM 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.
- 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.
- 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 21.4-1984.
- 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 ROMAX 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. IE. 6-INCH TAP ON 8-INCH PIPE. THE CITY (OR FMWC, VM OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
- 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.
- 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.
- 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.
- RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.
- PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
- WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- 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.
- TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
- 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, VM OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
- ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
- WHEN HYDRAULIC FLOW MODELING IS REQUIRED FOR A PROJECT, THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.
- 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.
- 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.
- 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).
  - 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).
  - 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.
- NEW WATER MAIN INSTALLATION:
  - EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ON-SITE 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 Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules		Maximum Fill Rate (gpm)
			Ounces per 500 feet	Teaspoons per 18 feet	
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 WATER 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 INTRODUCED 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 ON-SITE 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.



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

#	Date	Description
1	8/19/22	REVISIONS

PROPOSED  
SANITARY SEWER &  
WATER NOTES

C6.6

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED  
BY: *[Signature]*  
CITY OF PUYALLUP  
ENGINEERING SERVICES  
DATE: 11/08/2022

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 CITY ENGINEER

NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

**NOTES:**

- NEAT LINE CUTS SHALL BE SEALED AT TOP WITH A HOT PAVING GRADE AND FACE OF CUT TACKED.
- TOP OF SHELVE, SLOPE 1/2" PER FOOT, CONSTRUCT IN FIELD CHANNEL AND SHELVE TO THE CROWN OF PIPE.

MANHOLE COVER SHALL BE MARKED WITH "SEWER" IN 2" RAISED LETTERS, SEE CITY STANDARD DETAILS NO. 06.01.02 & 06.01.03 FOR ADDITIONAL INFORMATION.

MANHOLE COUPLING WITH RUBBER GASKET (SAND COLLAR) KOR N SEAL BY REQUEST.

UNDISTURBED OR COMPACTED SUB-GRADE

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**SANITARY SEWER MANHOLE**

APPROVED FOR PUBLICATION: 2/5/2018  
CITY STANDARD: 03.01.01

**FRAME AND COVER SECTION**

SCALE 1:1

CAST IRON FRAME AND COVER, SEE DETAIL ON THIS SHEET

1 1/2" ASPHALT CLASS B, SEE NOTE 2

4 1/2" CEMENT CONCRETE DRIVEWAY

**NOTES:**

- NEAT LINE CUT SHALL BE SEALED AT THE TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- ALL MATERIAL SHALL CONFORM TO THE 1991 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
- MACHINE BEARING FACES OF FRAME AND COVER TO INSURE POSITIVE FIT.
- EACH CLEAN OUT ASSEMBLY SHALL CONSIST OF: ONE CLEAN OUT ADAPTOR (HUB X FEMALE INSIDE PIPE THREAD, P.V.C. SLP IN), AND ONE CLEAN OUT PLUG (MALE OUTSIDE PIPE THREAD WITH RAISED NUT, P.V.C. SDR33).

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**SIDE SEWER CLEAN OUT WHEN PLACED IN DRIVEWAY**

APPROVED FOR PUBLICATION: 10/1/2018  
CITY STANDARD: 04.03.05

**WATER VALVE DETAIL**

**VALVE OPERATING NUT EXTENSION DETAIL**

**NOTES:**

- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM FINISHED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EXISTENCES, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EXISTENCES.
- VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 8 INCHES TO 3 FEET BELOW FINISHED GRADE.
- ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
- VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE WARRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) RISHORING MODEL 8000 WITH LOCKING VALVE BOX COVER MODEL 8000 (EMERGENCY) OR APPROVED EQUAL.
- NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
  - DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR WASH. PIPE AND FITTINGS SHALL BE MOTION LINED AND SHALL CONFORM TO AWWA C 154. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE COATING LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
  - JOINTS SHALL BE TYTON PUSH-IN JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
  - BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 193, GRADE B14, AND ASTM A 194, GRADE B14 FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE NS.
  - BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL CONFORM WITH ASTM A 194, GRADE 2H.
  - PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
  - ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 115 AND AWWA C 111.
- RESILIENT SEATED GATE VALVE, GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSF WORKING PRESSURE. THEY SHALL BE IRON-BODED, BRONZE MOUNTED, NON-RISING STEEL, WITH TWO (2) INCH SQUARE NUT, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED END (IF VALVES ON PIPE INHOUT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGES). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
- BUTTERFLY VALVES, BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.
- DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.18.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

**WATER VALVES AND MAINS**

APPROVED FOR PUBLICATION: 10/1/2018  
CITY STANDARD: 03.01.01

**VALVE MARKER POST**

**NOTES:**

- 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" HIGH NUMBER.
- 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.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

**VALVE MARKER POST**

APPROVED FOR PUBLICATION: 2/5/2018  
CITY STANDARD: 03.01.02

**WATER MAIN CROSSING OTHER UTILITIES**

SEE CITY STANDARD 03.01.03-2 FOR ADDITIONAL NOTES FOR THIS DETAIL.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

**WATER MAIN CROSSING OTHER UTILITIES**

APPROVED FOR PUBLICATION: 2/5/2018  
CITY STANDARD: 03.01.03-1

**NOTES FOR WATER MAIN CROSSING OTHER UTILITIES**  
CITY STANDARD 03.01.03-1

WHEN LOCAL CONDITIONS PREVENT THE SEPARATIONS DESCRIBED ON CITY STANDARD 03.01.03-1, A SEWER MAY BE LAID CLOSER THAN 10'-FEET HORIZONTALLY OR 18-INCHES VERTICALLY TO A WATER LINE, PROVIDED THE GUIDELINES BELOW ARE FOLLOWED:

**UNUSUAL CONDITIONS (PARALLEL SYSTEMS)**

- SEWER LINE IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.
- WHEN 18-INCHES VERTICAL SEPARATION CANNOT BE OBTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
- THE WATER LINE SHALL BE PLACED ON A BEDDING OF UNDISTURBED EARTH WITH THE BOTTOM OF THE WATER PIPE AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER, AND SHALL HAVE AT LEAST 5'-FEET OF HORIZONTAL SEPARATION AT ALL TIMES. THE CITY RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL MITIGATION EFFORTS, SUCH AS IMPERMEABLE BARRIERS OR OTHER MEANS, FOR ADDITIONAL PROTECTION.
- THE SEWER SHALL NOT BE INSTALLED IN THE SAME DITCH AS A POTABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF PUYALLUP.

**UNUSUAL CONDITIONS (PERPENDICULAR SYSTEMS)**

CONDITION A - GRAVITY SEWERS PASSING UNDER WATER LINES (ALL OF THE FOLLOWING APPLY)

- ONE FULL SEGMENT (NOT LESS THAN 18'-FEET LONG) OF DUCTILE IRON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER SHALL BE USED WITH THE PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
- STANDARD GRAVITY-SEWER MATERIAL ENCASED IN CONCRETE OR IN A ONE-QUARTER-INCH THICK CONTINUOUS STEEL, DUCTILE IRON, OR PRESSURE RATED PVC PIPE WITH A DIMENSION RATIO (THE RATIO OF THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR LESS, WITH ALL JOINTS PRESSURE-GROUTED WITH SAND-CEMENT GROUT OR BENTONITE.

EXAMPLE OF DIMENSION RATIO (DR): OUTSIDE PIPE DIAMETER DIVIDED BY THE WALL THICKNESS OR DO/T FOR 8-INCH SCH 80 PVC PIPE (114.3 INCHES), THE DR IS 8.625/1.315=17.25

CONDITION B - GRAVITY SEWER PASSING OVER WATER LINES

WATER LINES SHALL BE PROTECTED BY PROVIDING:

- A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER LINE.
- ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF THE WATER LINE.
- THE SEWER PIPE SHALL BE THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER WITH THE WATER AND SEWER PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
- THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A(3) ABOVE.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

**WATER MAIN CROSSING OTHER UTILITIES (NOTES)**

APPROVED FOR PUBLICATION: 2/5/2018  
CITY STANDARD: 03.01.03-2

**NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE. FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01-3**

**45° BEND** (COLUMN C)

**90° BEND** (COLUMN B)

**DEAD END** (COLUMN A)

**OFFSET** (COLUMNS B TO C)

**THRU LINE CONNECTION, TEE** (COLUMN A)

**DIRECTION CHANGE, TEE USED AS ELBOW** (COLUMN B)

**THRU LINE CONNECTION, TEE** (COLUMN C)

**UNBALANCED CROSS** (COLUMN A)

**THRU LINE CONNECTION, CROSS USED AS TEE** (COLUMN A)

**DIRECTION CHANGE, CROSS USED AS ELBOW** (COLUMN B)

**PLUGGED CROSS** (COLUMN B)

**NOTES:**

- THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS:
  - BLOCKS MUST BE POURED OR PLACED AGAINST UNDISTURBED SOIL.
  - THE PIPE FITTING(S) AND BOLTS MUST BE ACCESSIBLE. WRAP IN PLASTIC BEFORE POURING CONCRETE BLOCKING.
  - CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
  - RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING.
  - BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.
- ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01.
- CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
- DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
- BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

**HORIZONTAL THRUST BLOCKING**

APPROVED FOR PUBLICATION: 2/5/2018  
CITY STANDARD: 03.02.01-1

**TABLE 2: THRUST AT FITTINGS AT 200 PSI**

SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		A	B	C	D	E
4"	200	3,140	4,440	2,405	1,225	915
6"	200	7,070	9,995	5,410	2,760	1,385
8"	200	15,565	17,770	9,820	4,905	2,465
10"	200	18,635	27,770	15,020	7,860	3,850
12"	200	28,775	39,985	21,640	11,020	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,285	71,085	38,470	19,615	9,855

**TABLE 3: BEARING VALUE OF SOIL**

SOIL TYPE	SAFE BEARING LOAD LBS/SF
MUCK, PEAT, ETC.	0
SOFT CLAY/ALLUVIAL SOIL	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL, CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION.

**NOTES:**

- TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
 

EXAMPLE:  
THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI:  
39,985 x 300/200 = 59,978 LBS
- TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):
 

SEE TABLE 3, BEARING VALUE OF SOIL.

EXAMPLE:  
FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF  
59,978 LBS ÷ 3,000 LBS/SF = 20 SF OF AREA
- CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
- AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
- NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUG OR CAP.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

**THRUST BLOCKING TABLE**

APPROVED FOR PUBLICATION: 2/5/2018  
CITY STANDARD: 03.02.01-3

NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

**SITE PERMIT SET**

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**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  
# Date Description  
8/19/22 REVISIONS

**PROPOSED**  
**SANITARY SEWER & WATER DETAILS**

**C6.7**

**City of Puyallup**  
**Development & Permitting Services**  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**APPROVED**

BY: [Signature]

CITY OF PUYALLUP  
ENGINEERING SERVICES

DATE: 11/08/2022

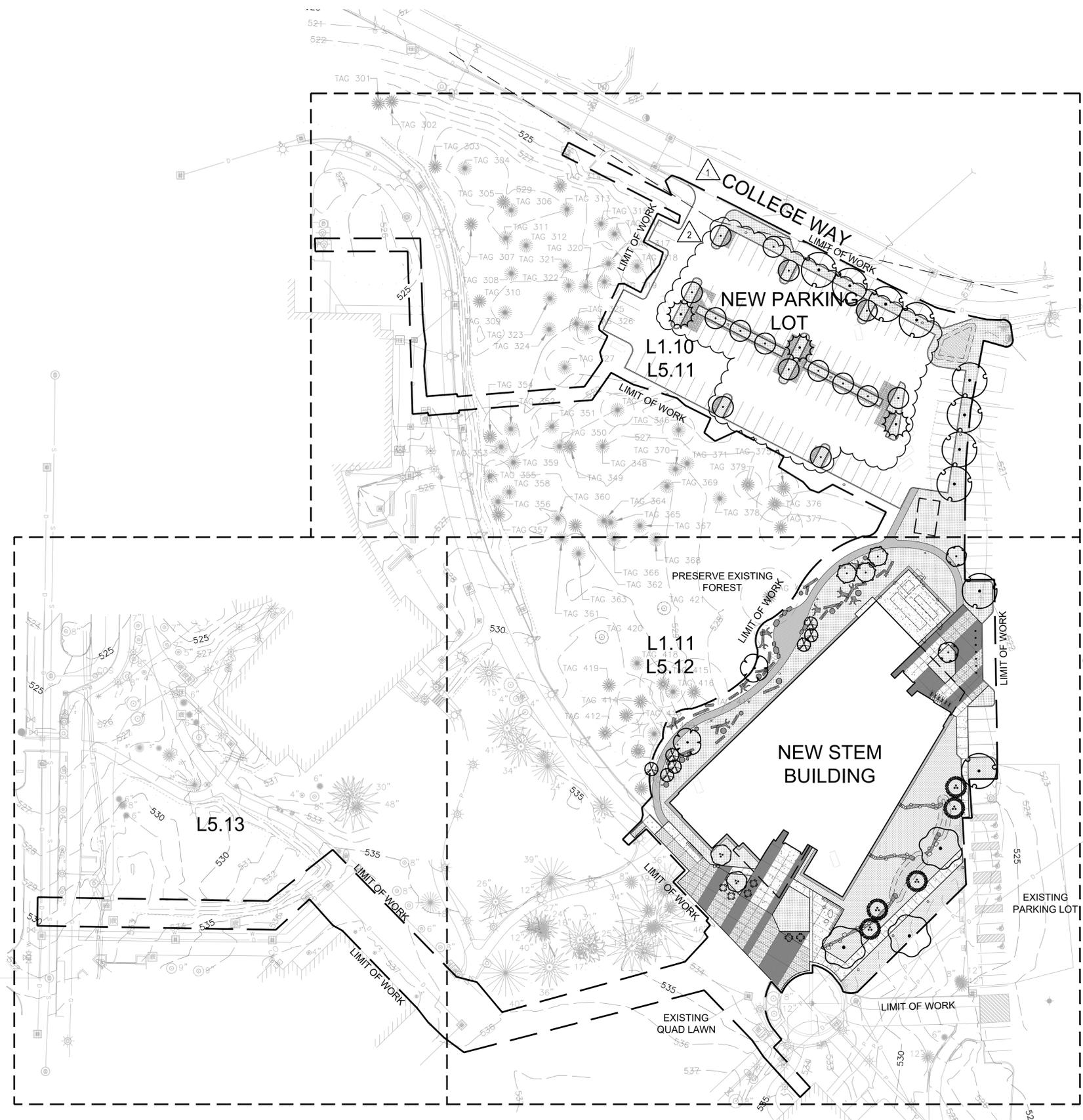
**NOTE:** THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

**integrus**  
ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA, 98104  
TELEPHONE: (206) 467-1137 FAX: (206) 467-1131

10/25/22





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

Staff: \_\_\_\_\_  
 Date: 11/07/22

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 PLANNING MANAGER, DESIGNER, OR PROJECT PLANNER.

NOTE: If street trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 3)  
 Road barriers are required around street trees in accordance with city standard detail. Top soil shall be installed in accordance with city standards - field verification required. Failure to install top soil and root barriers in accordance with city standards may result in rejection of installation.

**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**integrus** ARCHITECTURE

117 SOUTH MAIN STREET SUITE 100 SEASIDE, WA 98138  
 TELEPHONE (206) 282-1137 FAX (206) 282-1139

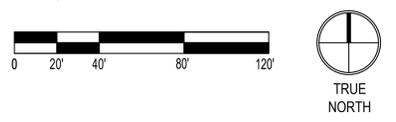


**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

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

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

**1 OVERALL SITE PLAN**  
 SCALE: 1" = 30' - 0"



NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.

SITE PLAN - OVERALL

**L1.00**

SITE PERMIT SET

**1 TREE PROTECTION PLAN**  
SCALE: 1" = 40' - 0"



NOTE: THESE PLANS ARE RECORD DRAWINGS, AND THE INFORMATION SHOWN ACCURATELY REFLECTS EXISTING FIELD CONDITIONS AS OF THIS DATE: APRIL 01, 2025.



**EXISTING TREE LEGEND**

- EXISTING DECIDUOUS TREE TO BE PROTECTED IN PLACE  
CRITICAL ROOT ZONE (RADIUS OF ONE FOOT PER INCH TREE DIAMETER, MEASURED AT DSH)
- EXISTING EVERGREEN TREE TO BE PROTECTED IN PLACE  
CRITICAL ROOT ZONE (RADIUS OF ONE FOOT PER INCH TREE DIAMETER, MEASURED AT DSH)
- 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

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

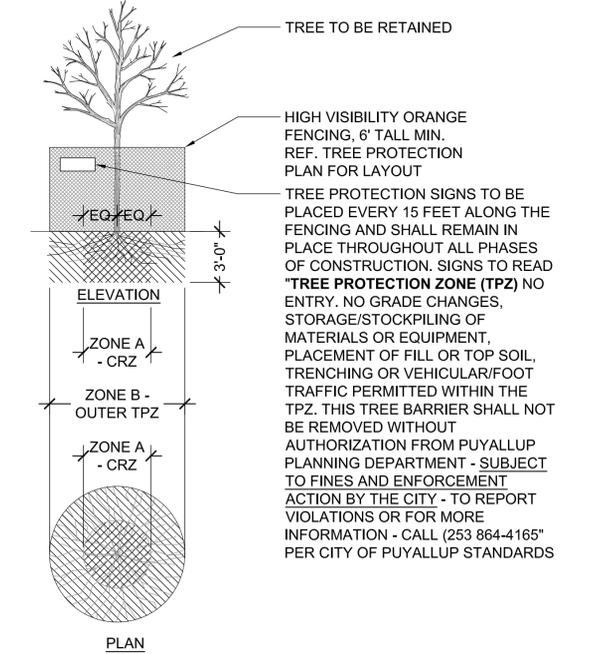
Staff: \_\_\_\_\_  
Date: 11/07/22

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NOTE: If more trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 1)  
Root Barriers are required around street trees in accordance with city standards - 60" verification required. Failure to install top soil and root barriers in accordance with city standards may result in rejection of installation.

**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 TRUNK.
2. 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.
5. CONTRACTOR MUST RETAIN A CERTIFIED ARBORIST TO INSPECT AND PROVIDE SPECIFIC DIRECTION ON PRUNING BRANCHES AND ROOTS, AND RELATED WATERING, FERTILIZING, BACKFILLING AND MULCHING.



**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 BREST HEIGHT.

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

**DBH (DIAMETER AT BREST 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**

**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
1601 39th AVE SE  
Puyallup, WA 98374

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

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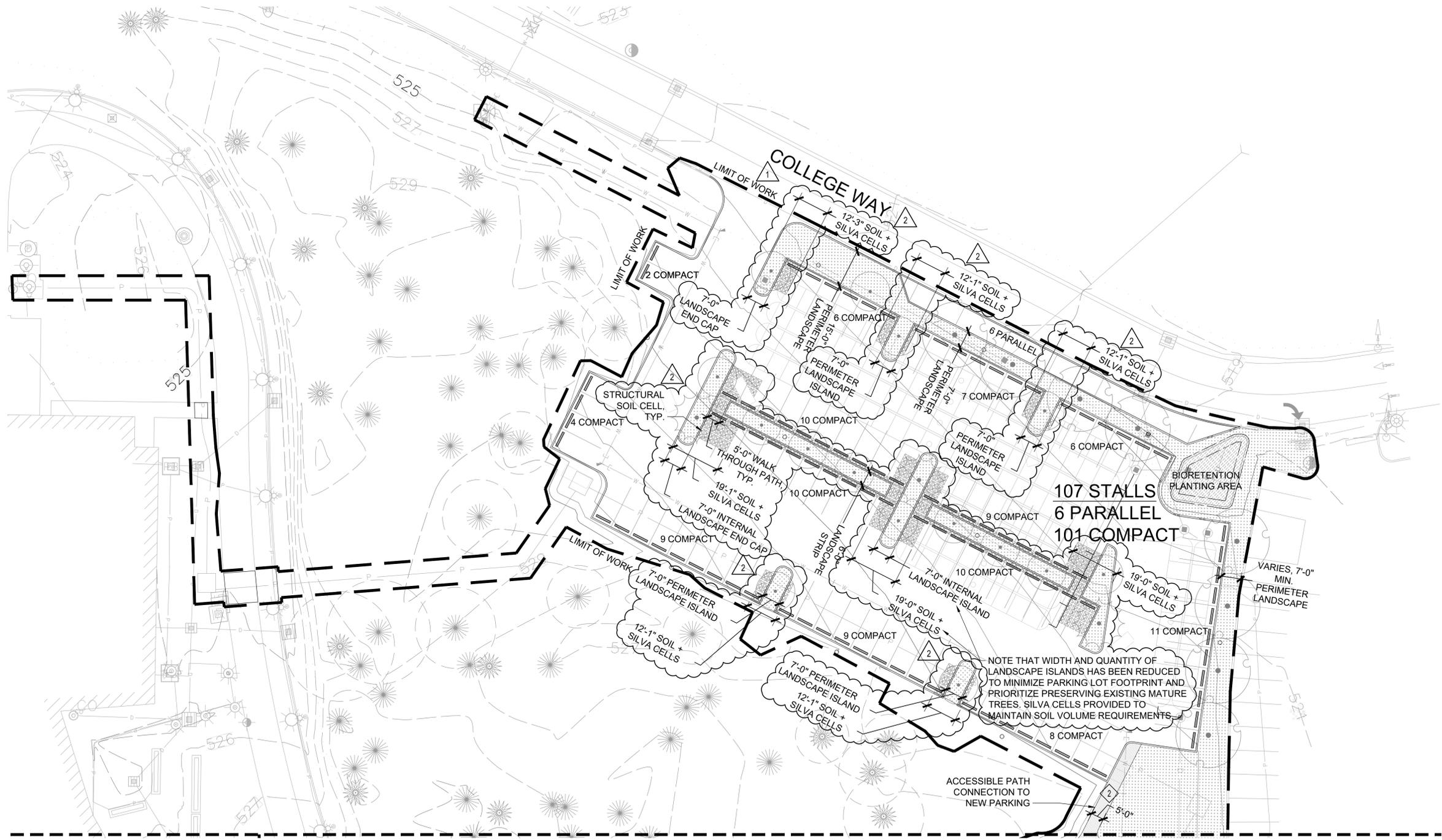
**TREE PROTECTION PLAN**

**L1.01**



**integrus** ARCHITECTURE

171 SOUTH MAIN STREET, SUITE 100, SEATTLE, WA, 98104  
TELEPHONE: (206) 467-1137 FAX: (206) 467-1138



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

Staff: \_\_\_\_\_  
 Date: 11/07/22

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NOTE: If street trees are required, Call Planning Division for final inspection: (253) 864-4165 (Option 3). Road barriers are required around street trees in accordance with city standard detail. Top soil shall be installed in accordance with city standards - field verification required. Failure to install top soil and root barriers in accordance with city standards may result in rejection of installation.

**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**Integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEASIDE, WA 98584  
 TELEPHONE: (253) 864-3137 FAX: (253) 864-3139



**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

**1 SITE PLAN - NORTH**  
 SCALE: 1" = 20' - 0"

MATCHLINE - SEE L1.11



**PLANTING LEGEND**

SYMBOL	DESCRIPTION
	PLANTING AREA
	RAIN GARDEN + BIORETENTION PLANTING AREA

REF. SHEET L1.11 FOR MATERIALS AND FURNISHING LEGENDS

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

Revisions

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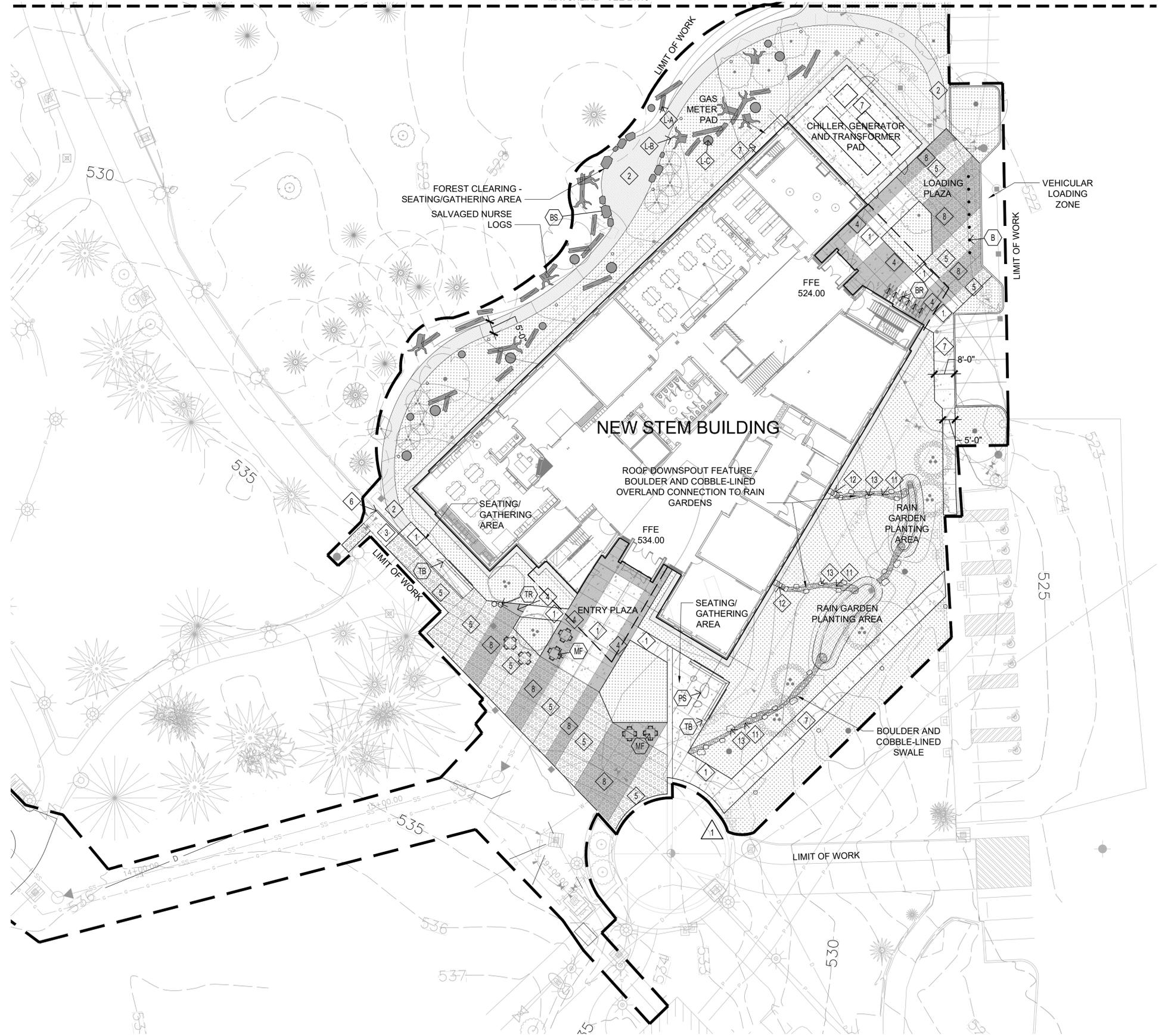
SITE PLAN - NORTH

**L1.10**

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**SITE PERMIT SET**

MATCHLINE - SEE L1.10



2

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

Staff: \_\_\_\_\_  
 Date: 11/07/22

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**PLANTING LEGEND**

SYMBOL	DESCRIPTION
	PLANTING AREA
	RAIN GARDEN + BIORETENTION PLANTING AREA

**MATERIALS LEGEND**

KEY	SYMBOL	DESCRIPTION
1		CONCRETE PAVING - SANDBLAST FINISH. REF. CIVIL FOR SECTION
2		CRUSHED ROCK SURFACING
3		GRASS PAVE - REF. CIVIL
4		CONCRETE PAVING - EXPOSED AGGREGATE FINISH. REF. CIVIL FOR SECTION
5		VEHICULAR CONCRETE PAVING - SANDBLAST FINISH. REF. CIVIL FOR SECTION
6		FLUSH CURB
7		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
11		RIVER ROCK SWALE
12		STEPPING STONE WATER CHANNEL
A		NURSE LOG
B		NURSE ROOTWAD
C		NURSE STUMP
13		LANDSCAPE BOULDERS - REF. BOULDER SCHEDULE

**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**




**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

**FURNISHING LEGEND**

KEY	SYMBOL	DESCRIPTION
TB		TIMBER BENCH - COLUMBIA CASCADE TIMBERFORM
PS		PEBBLE STOOL - TOURNESOL
MF		MOVEABLE CAFE TABLES AND CHAIRS - FORMS + SURFACES 'FACTOR'
B		BOLLARD - TOURNESOL 'B-2', REMOVABLE MOUNTING
BS		BOULDER SEAT - REF. BOULDER SCHEDULE
BR		BICYCLE RACK - SPORT WORKS 'TOFINO'
TR		TRASH RECEPTACLES - LANDSCAPE FORMS 'CHASE PARK'
F		ARCHITECTURAL FENCE - OMEGA UNIK PERFORATED PANELS
G		GATES - OMEGA UNIK

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

Revisions

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SITE PLAN - SOUTH

**L1.11**

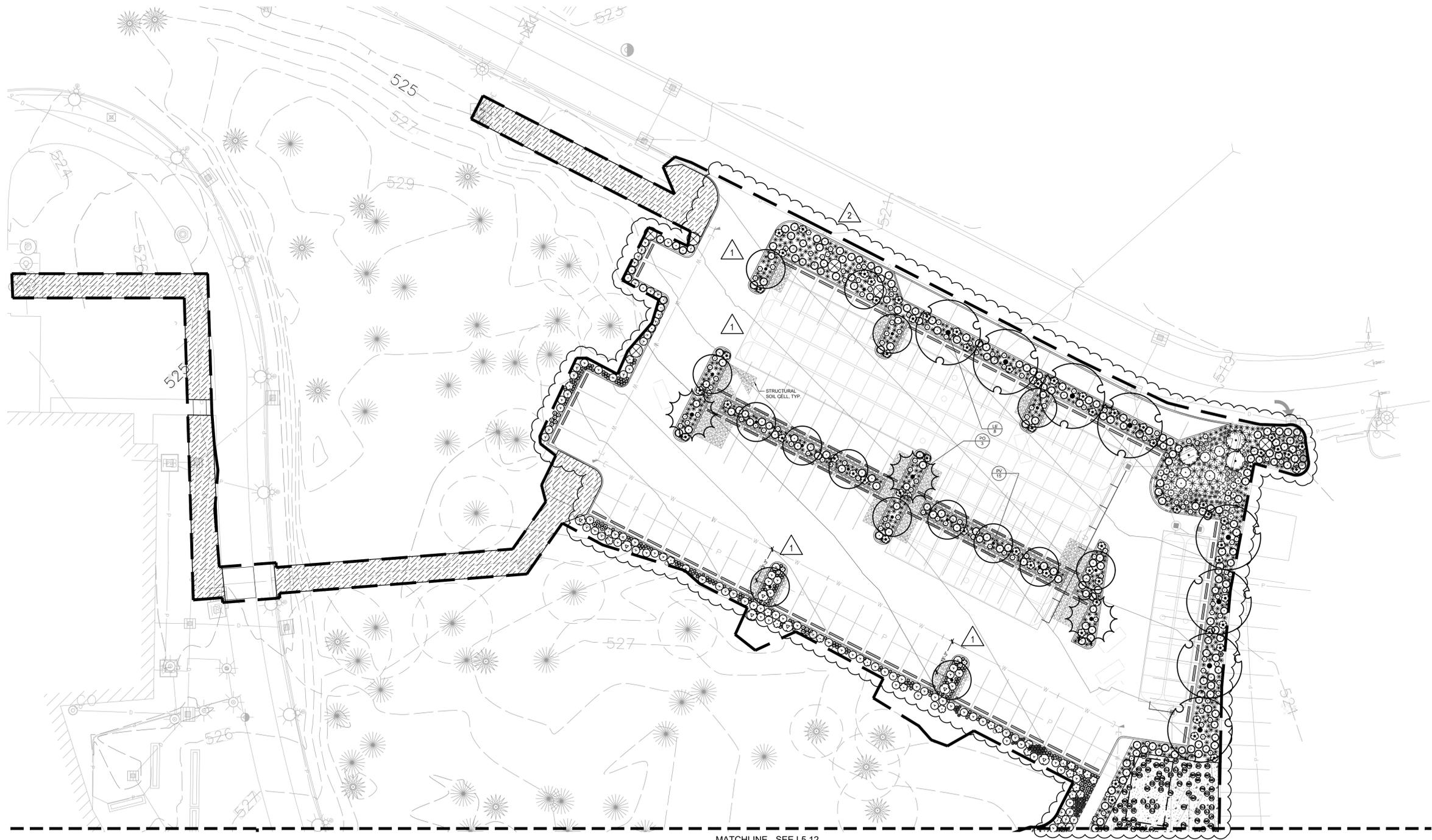
**1** SITE PLAN - SOUTH  
 SCALE: 1" = 20' - 0"

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SITE PERMIT SET

**Integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET SUITE 100 SEASIDE, WA 98138  
 TELEPHONE: (253) 862-3137 FAX: (253) 862-3139



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

Staff: \_\_\_\_\_  
 Date: 11/07/22

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**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**Integrus**  
 ARCHITECTURE

111 SOUTH MAIN STREET, SUITE 100, SEASIDE, WA 98138  
 TELEPHONE: (206) 882-3137 FAX: (206) 882-3139



**STATE PROJECT NO.: 2020-148**  
**PIERCE COLLEGE PUYALLUP**  
**NEW STEM BUILDING**  
 1601 39th AVE SE  
 Puyallup, WA 98374

Date: 05/05/22  
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Revisions

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1	8/19/22	PERMIT RESUBMITTAL
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PLANTING PLAN - NORTH

**L5.11**

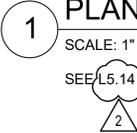
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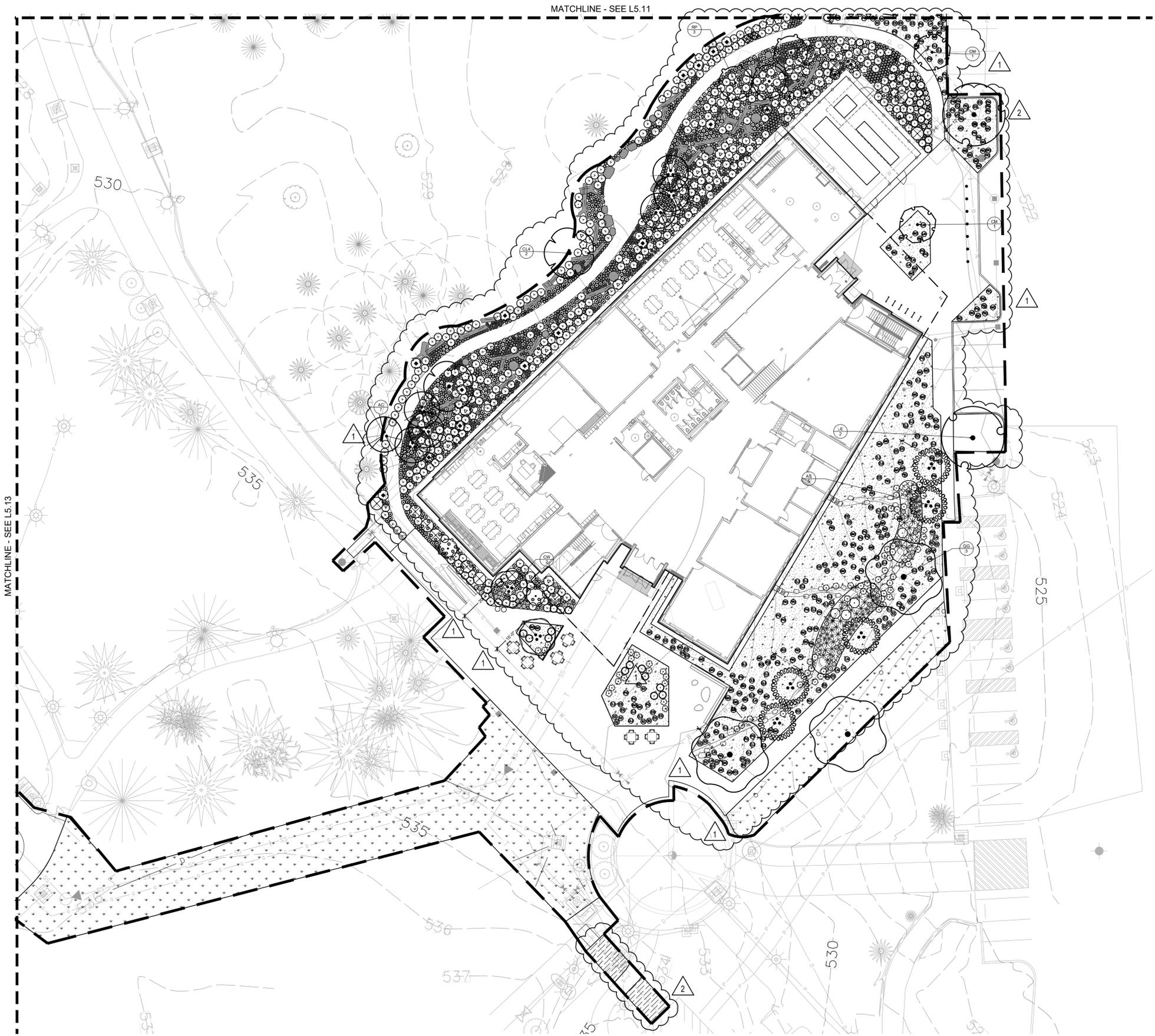
SITE PERMIT SET

**1 PLANTING PLAN - NORTH**

SCALE: 1" = 20' - 0"  
 SEE L5.14 FOR PLANTING SCHEDULE

MATCHLINE - SEE L5.12





MATCHLINE - SEE L5.13

MATCHLINE - SEE L5.11

**1 PLANTING PLAN - SOUTH**

SCALE: 1" = 20' - 0"  
SEE L5.14 FOR PLANTING SCHEDULE



2

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

Staff:  
 Date: **11/07/22**

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**City of Puyallup**  
**Development & Permitting Services**  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**Integrus**  
 ARCHITECTURE

117 SOUTH MAIN STREET, SUITE 100, SEASIDE, WA 98148  
 TELEPHONE: (206) 882-3137 FAX: (206) 882-3139



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 Puyallup, WA 98374

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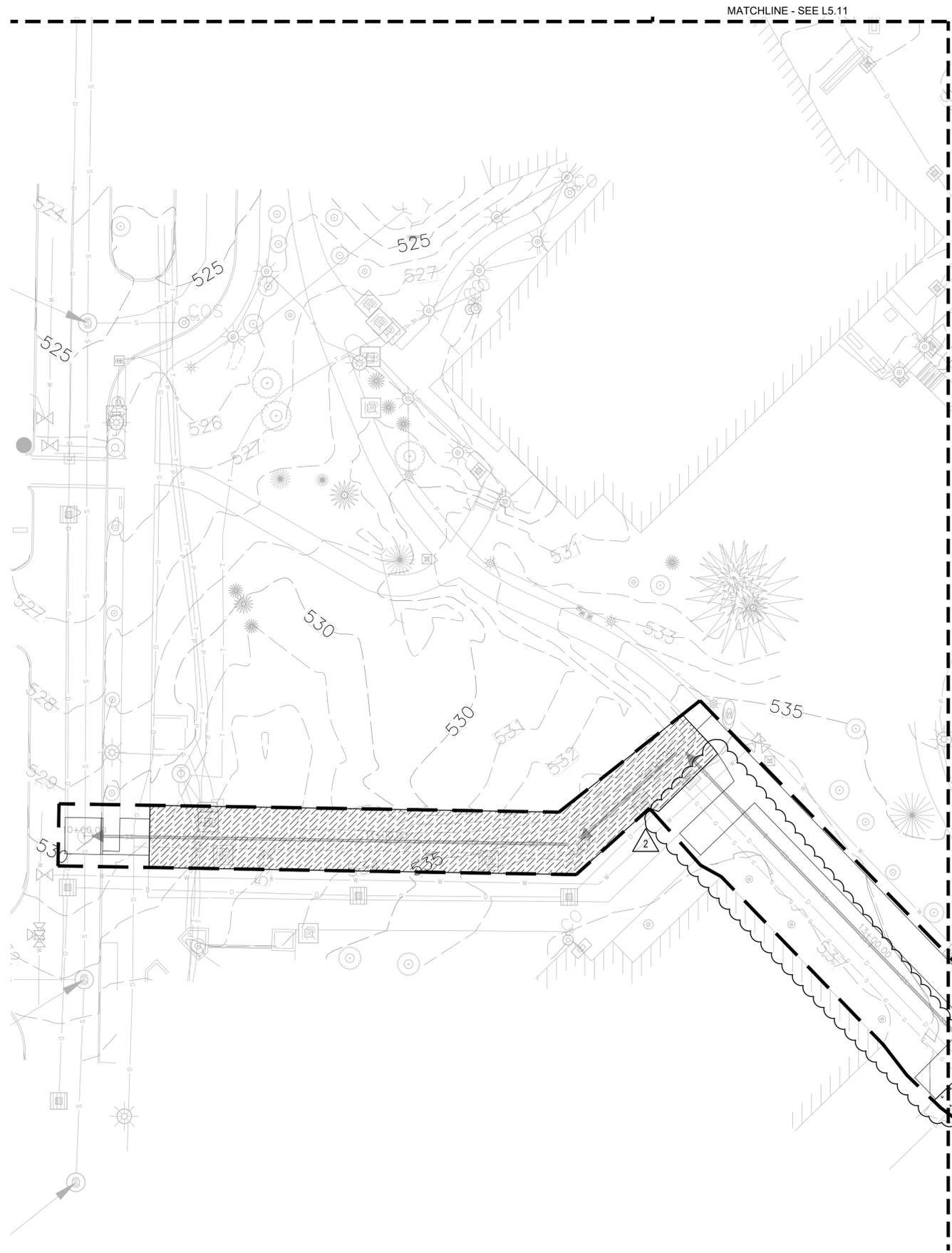
#	Date	Description
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PLANTING PLAN - SOUTH

**L5.12**

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**SITE PERMIT SET**



**1** PLANTING PLAN - WEST  
 SCALE: 1" = 20' - 0"  
 SEE L5.14 FOR PLANTING SCHEDULE



**CITY OF PUYALLUP**  
 Planning Division  
 Approved Landscape Plan  
 (253) 864-4165  
 Staff: \_\_\_\_\_  
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**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



**STATE PROJECT NO.: 2020-148**  
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PLANTING PLAN - WEST PLANTING SCHEDULE

**L5.13**

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SITE PERMIT SET

**Integrus** ARCHITECTURE  
 117 SOUTH MAIN STREET, SUITE 101, SEASIDE, WA 98138  
 TELEPHONE: (253) 864-3137 FAX: (253) 864-3139



