

SCALE: 1" = 40'

CONTOUR INTERVAL = 1'

LEGEND

+ FOUND PK NAIL REBAR AND CAP

SURVEY SPIKE

-X- YARD LIGHT

LIGHT POLE

-O- POWER POLE

YARD DRAIN

□ RAIN DRAIN

CATCH BASIN

Q FIRE HYDRANT

WATER VALVE

── SIGN

₹ CEDAR

₩ BIKE RACK

STREET SIGN

DECIDIOUS TREE

COTTONWOOD

MAPLE

₩ DOUGLAS FIR

ALDER

CULVERT

----- D----- STORM LINE

---- EDGE GRAVEL

FENCE POST

T UNDERGROUND TELEPHONE LINE

--- OVERHEAD BUILDING LINE

BUILDING LINE EDGE OF VEGETATION

NAVD 88 UTILIZING THE WASHINGTON STATE REFERENCE NETWORK

UTILIZED ALL OR A PORTION OF THE FOLLOWING EQUIPMENT:

TRIMBLE R8, TOPCON GR-5 GNSS EQUIPMENT.

FIELD TRAVERSE AND/OR GLOBAL NAVIGATION SATELLITE SYSTEM

ELECTRONIC TOTAL STATIONS, INCLUDING TOPCON PS-103A,

PROCEDURE USED: FIELD TRAVERSE WORK COMPLIES WITH CURRENT

STANDARDS AS OUTLINED IN WAC-332-130-070, -080 AND -090.

2. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON THE

FOLLOWING SOURCES: SURVEYED LOCATIONS OF VISIBLE SURFACE

ANY DEMOLITION OR CONSTRUCTION WORK ON OR AROUND THE SITE.

THE FIELD BY TREE SOLUTIONS, INC AND CORRESPONDS TO THEIR "DRAFT TABLE OF TREES" PREPARED DECEMBER 15, 2021. SEE

MT. VIEW LOCATING SERVICES LLC. IN DECEMBER OF 2021. THE

LOCATIONS OF BURIED UTILITIES SHOWN HEREON SHOULD BE

3. PIERCE COUNTY PARCEL LINES SHOWN PER GIS RECORD.

THIS GAP CORRESPONDS TO A GAP IN TREE TAG SERIES.

GAS LINE PAINT MARK

---- TREE DRIP LINE

BASIS OF HORIZONTAL DATUM:

BASIS OF VERTICAL DATUM:

SURVEY INSTRUMENTATION:

LEICA TCRA 1105 PLUS, TRIMBLE S5.

FARO FOCUS S350 LASER SCANNER.

1. FIELD WORK COMPLETED JANUARY 2022.

REQUIRED BY WAC-332-130-100.

SURVEY NOTES:

TREE NOTES:

REPORT FOR TREE INFORMATION.

(WSRN) IN DECEMBER OF 2021.

(WSRN) IN DECEMBER OF 2021.

BOARD FENCE — — — EDGE CONCRETE

W WATER MAN HOLE

TELEPHONE MAN HOLE

-X LIGHT POLE WITH ARM

P POWER MAN HOLE

o^{CO} STORM CLEAN OUT

D STORM MAN HOLE

PB POWER JUNCTION BOX

S SANITARY SEWER MANHOLE

O SANITARY SEWER CLEAN OUT

IR IRRIGATION CONTROL VALVE

WATER MARKER POST

+ PK NAIL

FOUND REBAR AND CAP

WATER FIRE DEPT. CONNECTION

-Q- POWER POLE WITH TRANSFORMER

0 0

1/20/2022 Checked By: Revisions # Date Description

SURVEY **EXISTING CONDITIONS -OVERALL**

VICINITY MAP ADDRESS PIERCE COLLEGE PUYALLUP PARCEL 0419034018 1601 39TH AVENUE SE PUYALLUP, WA 98374 ΓES 4165) 4. INSTALL CONSTRUCTION ENTRANCE

EXISTING LEGEND:

ELECTRICAL VAULT

TELEPHONE RISER

TELEPHONE VAULT

FIRE DEPARTMENT

IRRIGATION CONTROL

POST INDICATOR VALVE

CONNECTION

FIRE HYDRANT

WATER METER

WATER VALVE

WATER VAULT

IRRIGATION BOX

CONIFEROUS TREE

DECIDUOUS TREE

ELECTRICAL LINE

SANITARY SEWER LINE

STORM LINE

GAS LINE

VALVE

LUMINAIRE

ARCHITECT

PH: 206.628.3137

AHBL, INC.

PRINCIPAL

PH: 253.383.2422

FAX: 253.383.2572

EMAIL: wfierst@ahbl.com

& WATER):

PH CONSULTING

913 MLK Jr. WAY

PH: 253.864.5865

FAX: 253.297.8645

SUITE A

INTEGRUS ARCHITECTURE

CONTACT: SARA WILDER, AIA

EMAIL: swilder@integrusarch.com

CIVIL ENGINEER:

TACOMA, WASHINGTON 98403

CONTACT: WILLIAM FIERST, P.E.

TACOMA, WASHINGTON 98405

CONTACT: KEN LAUZEN, P.E.

EMAIL: Ken@phtraffic.com

2215 NORTH 30TH STREET, SUITE 300

CIVIL ENGINEER (SEWER

117 SOUTH MAIN STREET, SUITE 100 SEATTLE, WASHINGTON 98104

	O LLOLIND.	
		CITY OF PUYALLUP GENERAL NOTE
Δ	SET NAIL AND WASHER	OTT OF TOTALLOT GENERAL NOTE
lacktriangle	SET REBAR AND CAP	1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE
0	BOLLARD	CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERA CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING A
Д	SIGN AS NOTED	THE DEVELOPMENT CENTER TO BE ATTENDED BY ALL MAJOR
\otimes	FLAG POLE	CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES, AND THE CITY OF PUYALLUP. CONTACT ENGINEERING SERVICES AT (253-864-410)
	SANITARY SEWER MANHOLE	TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF PLANS AT THE MEETING.
0	SANITARY SEWER CLEANOUT	2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL
	STORM CATCH BASIN	OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILI
	STORM MANHOLE	REMAINING ITEMS OF WORK TO BE COMPLETED:- ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION
	ROOF DRAIN	OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND
	GAS METER	PROVISION OF SANITARY SEWER SERVICE.
(C)	GAS VALVE	ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL
	POWER TRANSFORMER	CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF
-0-	UTILITY POWER POLE	TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION

CLIENT

PIERCE COLLEGE PUYALLUP

STATE OF WASHINGTON DEPARTMENT OF

LANDSCAPE ARCHITECT

1601 39TH AVENUE SE

ENTERPRISE SERVICES

1500 JEFFERSON STRET

CONTACT: CHRISTOPHER GIZZI

3800 WOODLAND PARK AVENUE N TACOMA, WASHINGTON 98103

PUYALLUP, WA 98374

PH: (253) 964-6729

CONTACT: GUS LIM

OLYMPIA, WA 98501

PH: (360) 239-7372

SITEWORKSHOP

PH: 206.428.3588

CONTACT: VINITA SIDHU

SURVEYOR

33400 8TH AVE S, #205

PH: 253.838.6113

FEDERAL WAY, WA 98003

EMAIL: vinitas@siteworkshop.com

ESM CONSULTING ENGINEERS

EMAIL: zack.lennon@esmcivil.com

CONTACT: ZACHARY T. LENNON, P.L.S.

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 CITY 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 (1-800-424-5555) AT LEAST 48 HOURS 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. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE

THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY. 9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL

SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.

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

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

12.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.

13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.

14. A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY AT (360)407-6300.

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

CONSTRUCTION SEQUENCE

- ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING WITH CITY OF PUYALLUP AND OBTAIN REQUIRED PERMITS.
- 2. STAKE/FLAG CLEARING AND CONSTRUCTION LIMITS.
- CONSTRUCT ALL TEMPORARY EROSION CONTROL BMPS ACCORDING TO THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) PLAN. INSTALL INLET SEDIMENT PROTECTION IN EXISTING CATCH BASINS.
- 5. 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.
- 9. ROUGH GRADE AND FILL SITE. ALL GRADING SHALL BE DONE IN CONFORMANCE WITH THE GRADING PLAN.
- 10. CONSTRUCT STORM SYSTEM AND INSTALL INLET SEDIMENT PROTECTION TO NEW BASINS
- 11. INSTALL ALL REMAINING SITE UTILITIES AND ASSOCIATED INFRASTRUCTURE.
- 12. 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 (NOVEMBER 1 TO MARCH 31).
- 13. 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.
- 14. FINAL GRADE SITE AND INSTALL FINAL SURFACE TREATMENTS. ENSURE THAT SURFACE WATER IS POSITIVELY DIRECTED TOWARD PROPOSED STORM COLLECTION FACILITIES.
- 15. REMOVE REMAINING TEMPORARY EROSION CONTROL ITEMS ONCE SITE HAS BEEN STABILIZED AND UPON APPROVAL OF THE CITY OF PUYALLUP.

	T INDEX SHEET TITLE
C1.0	COVER SHEET
C2.1	TESC AND DEMOLITION PLAN
C2.2	TESC AND DEMOLITION PLAN
C2.3	TESC AND DEMOLITION PLAN
C2.4	TESC NOTES AND DETAILS
C3.0	OVERALL GRADING PLAN
C3.1	GRADING AND DRAINAGE PLAN
C3.2	GRADING AND DRAINAGE PLAN
C3.3	GRADING AND DRAINAGE PLAN
C3.4	SITE SECTIONS
C3.5	GRADING DETAILS
C3.6	GRADING DETAILS
C4.1	PAVING AND HORIZONTAL CONTROL PLAN
C4.2	PAVING AND HORIZONTAL CONTROL PLAN
C4.3	PAVING AND HORIZONTAL CONTROL PLAN
C5.1	PAVEMENT NOTES AND DETAILS
C5.2	STORM DRAINAGE NOTES AND DETAILS
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C6.2	PROPOSED SANITARY SEWER MAIN PLAN & PROFILE
C6.3	PROPOSED SANITARY SEWER MAIN PLAN & PROFILE
C6.4	PROPOSED WATER MAIN PLAN & PROFILE
C6.5	PROPOSED WATER MAIN PLAN & PROFILE
C6.6	PROPOSED SANITARY SEWER & WATER NOTES
C6.7	PROPOSED SANITARY SEWER & WATER DETAILS
C6.8	PROPOSED SANITARY SEWER & WATER DETAILS

AUTOCAD FILE

TRENCH NOTE AN AUTOCAD DRAWING FILE IS IF WORKERS ENTER ANY TRENCH OR AVAILABLE TO ASSIST WITH SITE OTHER EXCAVATION FOUR OR MORE FEET LAYOUT. PLEASE NOTE THAT IN DEPTH THAT DOES NOT MEET THE OPEN ELECTRONIC FILES ARE PROVIDED FOR PIT REQUIREMENTS OF WSDOT SECTION CONTRACTOR'S CONVENIENCE AND 2-09.3(3)B, IT SHALL BE SHORED AND SHALL NOT REPLACE NOR BE USED TO CRIBBED. THE CONTRACTOR ALONE SHALL SUBSTITUTE THE CONTRACT BE RESPONSIBLE FOR WORKER SAFETY DOCUMENTS. THE CONTRACTOR IS AND AHBL ASSUMES NO RESPONSIBILITY. RESPONSIBLE FOR PROJECT LAYOUT ALL TRENCH SAFETY SYSTEMS SHALL MEET ACCORDING TO CONTRACT DOCUMENTS THE REQUIREMENTS OF THE WASHINGTON AND COST FOR ELECTRONIC AUTOCAD INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW. FILES. PHONE: (253) 383-2422

TOPOGRAPHIC NOTE

FAX: (253) 383-2572

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 THUS 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.

FILL SPECIFICATION UTILITY NOTE

UTILITIES

SANITARY SEWER

STORM SEWER

TELEPHONE

ELECTRICITY/GAS

NEW PARKING LOT

- NEW STEM BLDG

CITY OF PUYALLUP - PH: 253-841-5494

CITY OF PUYALLUP - PH: 253-841-5481

CITY OF PUYALLUP - PH: 253-841-5481

CENTURY LINK - PH: 1-800-244-1111

PUGET SOUND ENERGY - PH: 253-841-6263

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.

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.

GRAPHIC SCALE

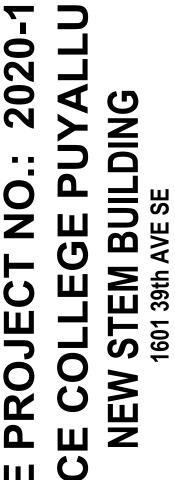
COMMUNICATIONS LINE WATER LINE _ _ _ W __ -IRRIGATION PER RECORD DRAWING FENCE ___ x ____ x ___ x __ CONCRETE **ASPHALT** GRASSPAVE CONTOUR MAJOR - -XXX- -INTERVAL CONTOUR MINOR - - \times \times \times - -INTERVAL PROPERTY / **RIGHT-OF-WAY LINE**

WV

NOTICE ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT DEROGATE FROM RESERVED OWNERSHIP RIGHTS IN IT. THIS DOCUMENT IS FOR USE ONLY FOR THE PROJECT IDENTIFIED IN THE TITLE BLOCK AND IS NOT TO BE USED FOR REPAIR, REMODEL OR ADDITION TO THAT PROJECT OR FOR ANY OTHER PROJECT.



05/05/2022



05/05/22 Job No.: 22135.00 C. HOVDE Drawn By: W. FIERST Checked by:

Revisions # Date Description

COVER SHEE

TESC AND DEMOLITION NOTES

1. PROTECT EXISTING UTILITIES TO REMAIN.

SEE SHEET C2.2 FOR CONTINUATION

- 2. 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 MAY 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.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLISHED AND CLEARED MATERIALS. DISPOSE OF ALL ASBESTOS CEMENT PIPING PER WAC REQUIREMENTS.
- 6. 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.
- 8. THE CONTRACTOR SHALL DEMOLISH AND REPLACE IN KIND ALL EXISTING IRRIGATION LINES IMPACTED BY THE WORK. CONTRACTOR SHALL REPLACE IRRIGATION HEADS IN KIND.
- 9. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITIES WITHIN WORK LIMITS TO FINISH GRADE.
- 10. PROTECT EXISTING FEATURES WITHIN CLEARING LIMITS TO REMAIN.

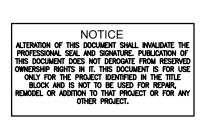
- REMAIN.
- 12. SEE LANDSCAPE PLANS FOR TREE PROTECTION PLAN.
- 13. COORDINATE POWER DEMOLITION WITH UTILITY PURVEYOR AND ELECTRICAL PLANS. CONTRACTOR TO ENSURE THAT DEMOLITION OF
- 14. CONTRACTOR SHALL ENSURE THAT ADEQUATE FIRE PROTECTION ACCESS IS PROVIDED TO SITE AND EXISTING STRUCTURES TO REMAIN. CONTRACTOR SHALL ALSO PROVIDE ADEQUATE FIRE PROTECTION FOR THE NEW BUILDING.
- 15. CONTRACTOR SHALL MINIMIZE DUST GENERATION ONSITE BY



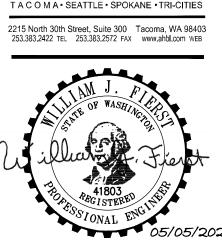
LINES WILL NOT COMPROMISE POWER TO OTHER AREAS.

SPRINKLING THE SITE WITH WATER UNTIL SURFACE IS WET. SEE BMP

16. REMOVE CONCRETE AT THE NEAREST JOINT. DO NOT SAWCUT CONCRETE.







0 0 Z PE E

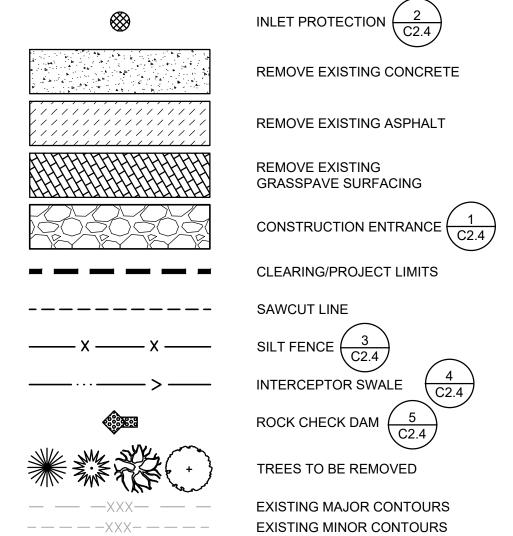
05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST

Revisions # Date Description

TESC AND **DEMOLITION PLAN**



LEGEND:



KEY NOTES:

- 1 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.
- 3 PROVIDE BAKER TANK. SIZING PER CSWPP CALCULATIONS.
- 4 DEMOLISH EXISTING CURB.
- DEMOLISH EXISTING LIT BOLLARDS. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- REMOVE AND SALVAGE EXISTING BENCHES. RETURN TO OWNER.
- DEMOLISH EXISTING CONCRETE STAIRCASE AND HANDRAIL. REPLACE IN-KIND.
- 8 DEMOLISH EXISTING CONCRETE SEATWALL.
- _
- PUMP AND PIPE STORMWATER TO BAKER TANKS.
- PROTECT EXISTING CONCRETE SEATWALL.
- 11) PROTECT SIGN.

SEE SHEET C2.1 FOR TESC AND DEMOLITION NOTES

A 41803 A 41803 A 41803 A 41803 A 5 10NAL ENGINEER O5/05/202

2215 North 30th Street, Suite 300 Tacoma, WA 98403 253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

TATE PROJECT NO.: 2020-14 IERCE COLLEGE PUYALLUI NEW STEM BUILDING

Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

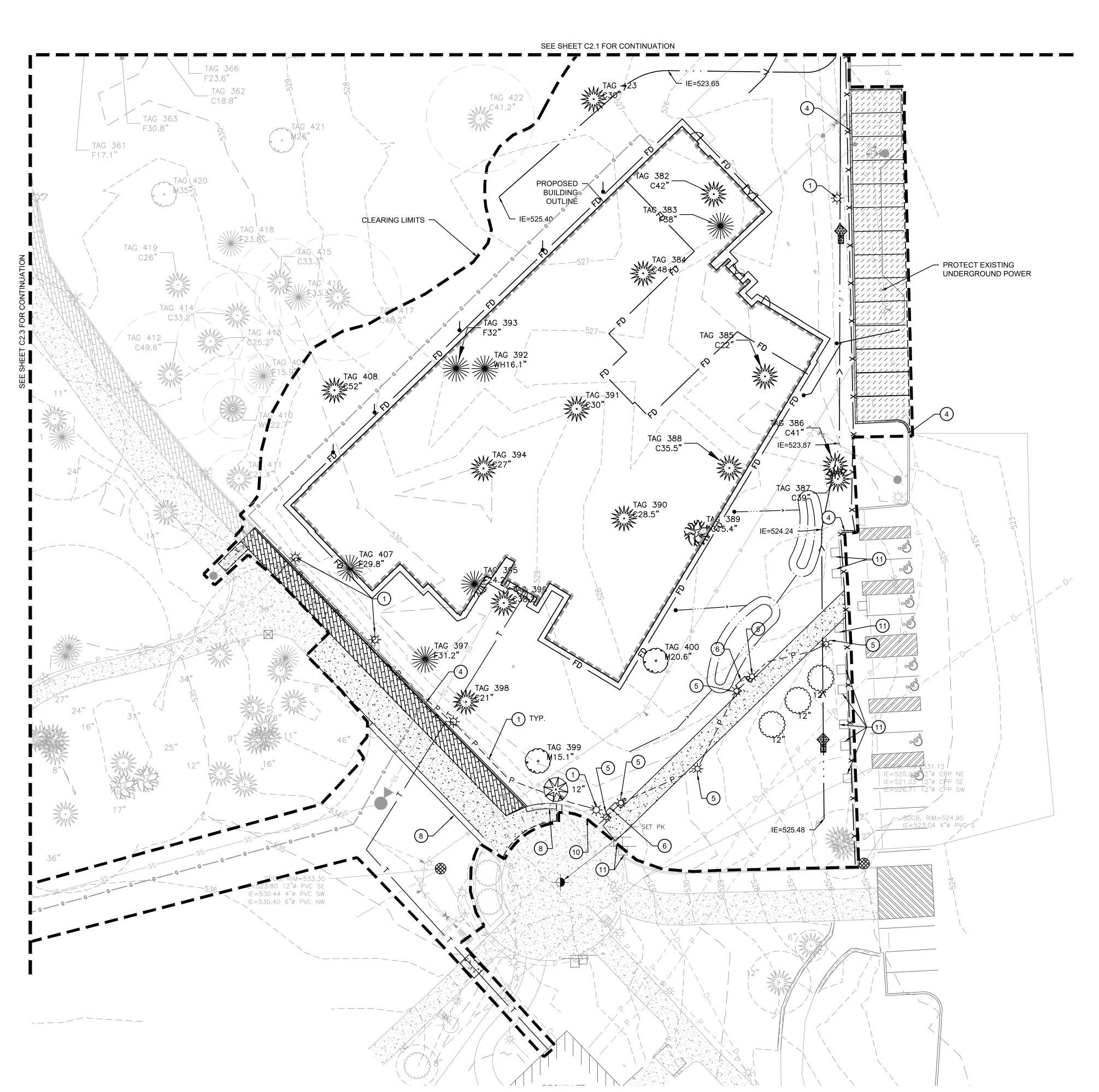
Revisions # Date Description

TESC AND
DEMOLITION PLAN

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NOT TO BE USED FOR REPAIR,
ON TO THAT PROJECT OR FOR ANY
OTHER PROJECT.

C2.2

SITE PERMIT SET



40



SDCB, RIM=527.4 IE=522.91 12"Ø PVC NW IE=522.86 12"ø PVC SW

SDCB, RIM=527.49 —

IE=523.67 12"ø PVC NE IE=524.05 4"Ø PVC NW

SDCB, RIM=528.10 —

IE=523.49 12"ø PVC NE

IE=523.48 12"ø PVC S

SDCB, RIM=527.60 -

IE=523.65 12"ø PVC N

IE=523.62 12"Ø PVC SW IE=523.80 6"ø PVC NW

PROTECT EXISTING -

COLLEGE CENTER

TREES, TYP.

PROTECT EXISTING

STORM

ARTS AND ALLIED

HEALTH BUILDING

STORM CULVERT IE=527.72 8"Ø D.I.

— SDCB, RIM=527.52

IE=529.35 80 PVC SW

JE=529.11 8"ø PVC W

9"/ IE=529.11 8"Ø PVC NE

IE=525.10 6"ø PVC IE=525.10 6"ø PVC

STORM CULVERT IE=523.06 8"ø D.I.

STORM CULVERT -

IE=528.17 8"ø D.I.

IE=525.77 8" PVC N

IE=526.05 8" PVC S IE=526.04 8" PVC W

SSMH, RIM=524.8 IE=513.72 8" PVC

IE=513.83 8" PVO IE=513.77 8" PV

SDCB, RIM=525.96 —

SDCB, RIM=530.54 -IE=523.90 12"Ø PVC N

SDCB, RIM=533.96 →

IE=524.99 12"ø PVC N

IE=529.66 8"ø PVC S

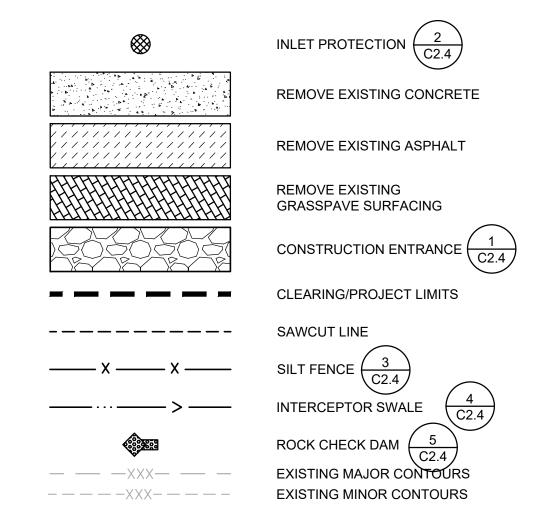
IE=530.29 6"ø PVC SW

IE=525.39 8"ø PVC SE

IE=526.27 8"ø PVC SE IE=523.96 12"ø PVC S IE=526.37 8"Ø PVC SW

IE=521.40 18"Ø PVC N

IE=521.71 12"ø PVC S IE=521.81 12"Ø PVC W



SEE SHEET C2.1 FOR TESC AND DEMOLITION NOTES

KEY NOTES:

- 1 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.
- 3 PROVIDE BAKER TANK. SIZING PER CSWPP CALCULATIONS.
- 4) DEMOLISH EXISTING CURB.
- DEMOLISH EXISTING LIT BOLLARDS. SEE ELECTRICAL PLANS FOR MORE INFORMATION.
- REMOVE AND SALVAGE EXISTING BENCHES. RETURN TO OWNER.
- 7 DEMOLISH EXISTING CONCRETE STAIRCASE AND HANDRAIL. REPLACE IN-KIND.
- 8 DEMOLISH EXISTING CONCRETE SEATWALL.
- 9 PUMP AND PIPE STORMWATER TO BAKER TANKS.
- (10) PROTECT EXISTING CONCRETE SEATWALL.
- 11) PROTECT SIGN.
- 12) PROTECT EXISTING UTILITIES.

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)

PROTECT THE ROOT STRUCTURE.

- SDCB, RIM=535.32

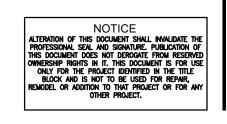
IE=530.04 8"Ø PVC NW

IE=530.14 8"ø PVC SW

(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

40% CHEWINGS FESCUE (FESTUCA REBRA COMMUTATA)

- 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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05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST

Revisions # Date Description

TESC AND DEMOLITION PLAN



A BUI h AVE SE WA 9837 EW Z **PIERC**

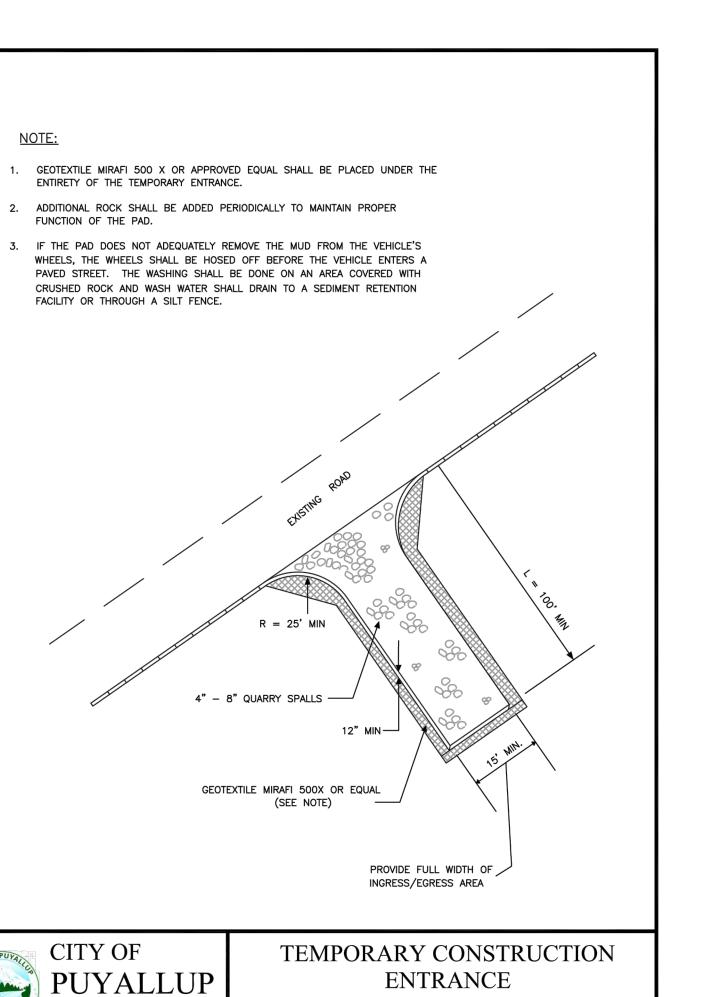
05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST

Revisions # Date Description

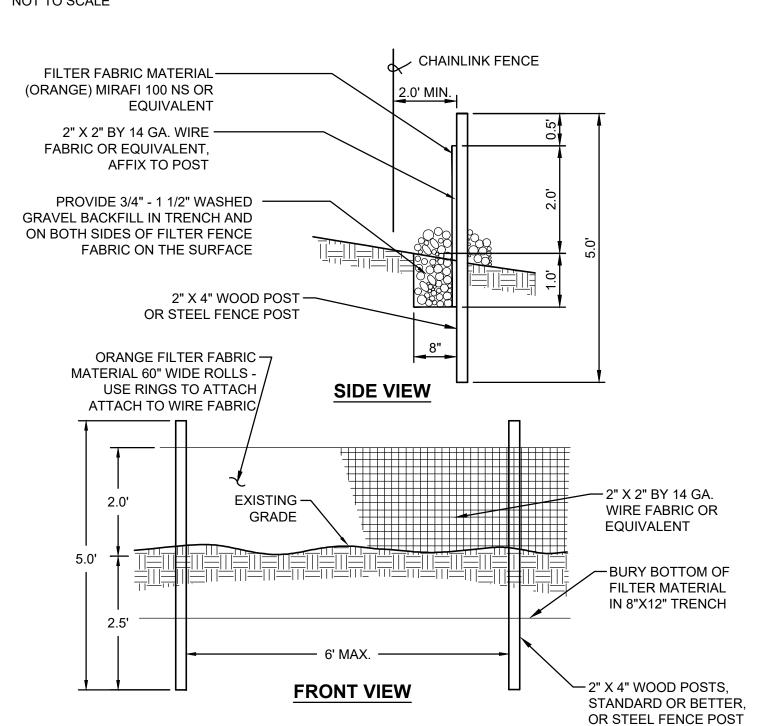
TESC NOTES AND

DETAILS

C2.4



TEMPORARY CONSTRUCTION ENTRANCE



. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.

2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.

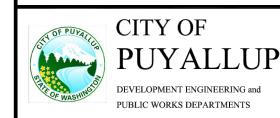
3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.

5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE

6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.



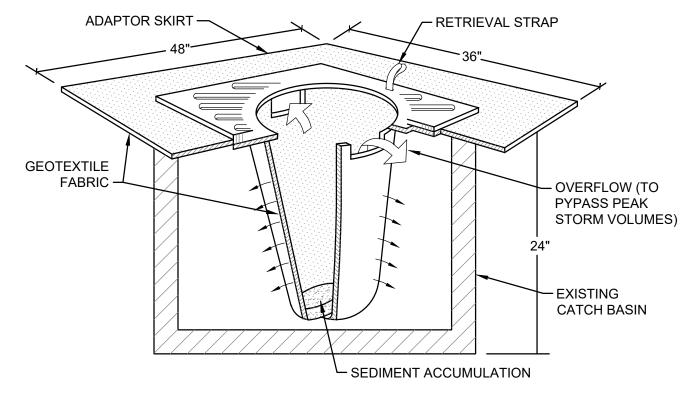
05.01.01

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES

SCALE 05.02.01

SILT FENCE NOTES

- 1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM SIX-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
- 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF SIX FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30")
- 3. A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT INCHES WIDE AND TWELVE INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
- 4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR INCHES AND SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- 5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND TWENTY INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- 6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE (S) APPLYING.
- 7. THE TRENCH SHALL BE BACKFILL WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL.
- 8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- 9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE
- 10. CONTRIBUTING LENGTH TO FENCE SHALL NOT BE MORE THAN 100 FEET.
- 11. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR.
- 12. DO NOT DRIVE OVER OR FILL OVER FILTER FABRIC FENCE.

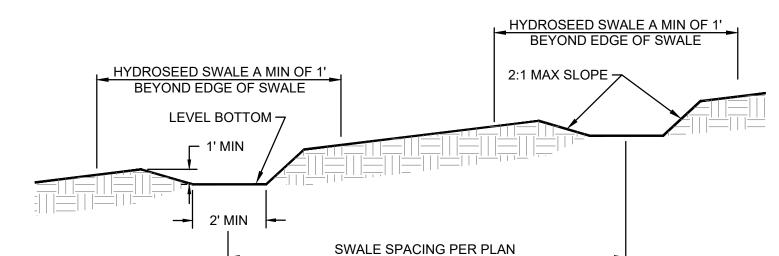


- 1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED
- 2. INSTALL INLET PROTECTION IN ALL NEW STORM STRUCTURES THAT WILL COLLECT STORMWATER AS THEY ARE INSTALLED.

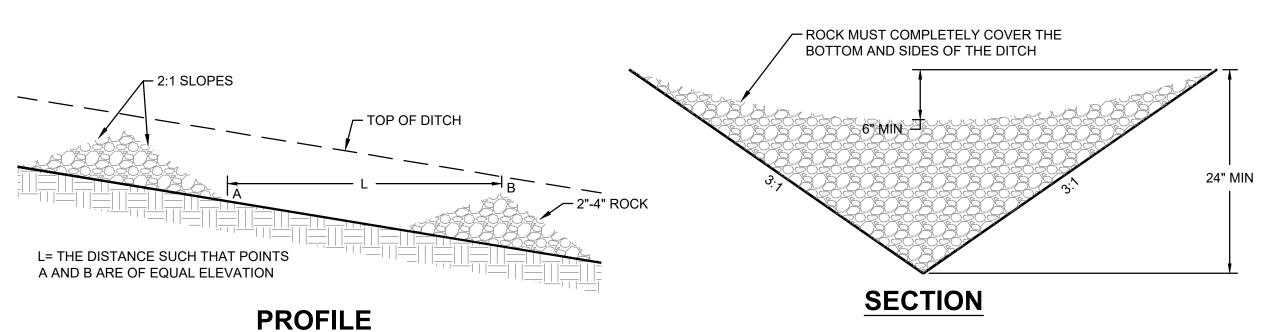
INLET PROTECTION NOTES

- 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(16).

INLET PROTECTION





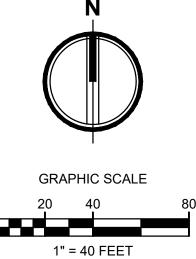


ROCK CHECK DAM

CITY OF

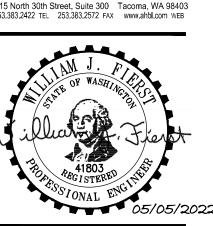
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- ELEVATIONS. SUBGRADE ELEVATIONS WILL VARY DEPENDING UPON TYPE OF SURFACING REQUIRED. REFER TO SPECIFICATIONS FOR TOPSOIL AND MULCH
- CONSTRUCTION ACTIVITIES. CONTACT ENGINEER IF PROPOSED GRADES ARE
- 6. ALL FILL MATERIALS SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL
- 7. ALL FOOTING DRAINS SHALL BE 6-INCH IN DIAMETER AND PLACED AROUND BUILDING.
- 8. 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



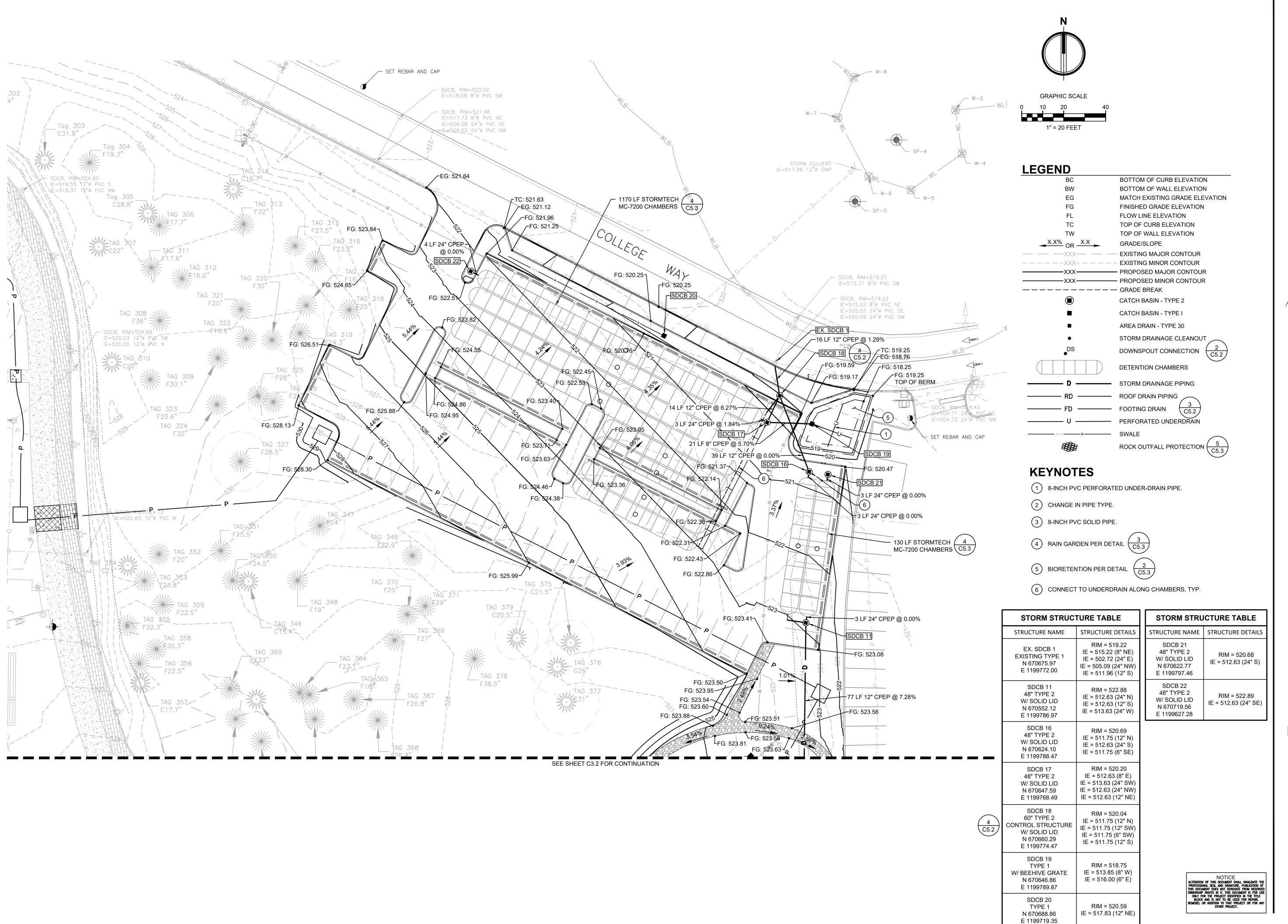


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05/05/22 22135.00 C. HOVDE W. FIERST

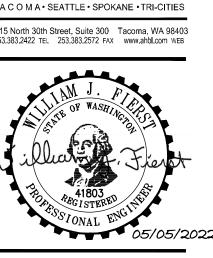
Date Description

OVERALL GRADING PLAN



SITE PERMIT SET

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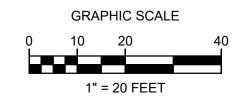
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05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST Checked by:

Revisions

Date Description

GRADING AND DRAINAGE PLAN



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
X.X% OR X:X	GRADE/SLOPE
XXX	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	- PROPOSED MAJOR CONTOUR
xxx	- PROPOSED MINOR CONTOUR
	- GRADE BREAK
	CONCRETE WALL
	CATCH BASIN - TYPE 2
	CATCH BASIN - TYPE I
	AREA DRAIN - TYPE 30
•	STORM DRAINAGE CLEANOUT
DS	DOWNSPOUT CONNECTION $\left(\frac{2}{C5.2}\right)$
D	STORM DRAINAGE PIPING
	ROOF DRAIN PIPING
——— FD ———	FOOTING DRAIN $\left(\frac{3}{C5.2}\right)$
U	PERFORATED UNDERDRAIN
	ROCK OUTFALL PROTECTION (5)

KEYNOTES

-55 LF 12" CPEP @ 1.30%

→26 LF 12" CPEP @ 0.58%

----26 LF 12" CPEP @ 0.53%

75 LF 12" CPEP @ 3.42%

SEE SHEET C3.1 FOR CONTINUATION

UPPER FLOOR FF: 534.00 LOWER FLOOR FF: 524.00

F23.6"

TAG 419

TAG 362

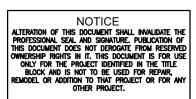
32 LF 8" DI CL52 @ 0.99%

C3.4

76 LF 8" DI CL52 @ 0.65%—

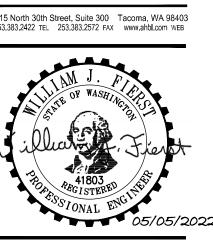
- 1) 6-INCH PVC PERFORATED UNDER-DRAIN PIPE.
- 2 CHANGE IN PIPE TYPE.
- 3 8-INCH PVC SOLID PIPE.
- 4 RAIN GARDEN PER DETAIL $\frac{3}{C5.3}$
- $\begin{array}{c} \boxed{5} \quad \text{BIORETENTION PER DETAIL} \quad \boxed{\frac{2}{\text{C5.3}}} \end{array}$
- CONNECT INSIDE BUILDING FOOTING DRAIN TO EXTERIOR FOOTING DRAIN. SEE STRUCTURAL FOR MORE INFORMATION.

STORM STRUCTURE TABLE		
STRUCTURE NAME	STRUCTURE DETAILS	
SDCB 1 TYPE 1 N 670229.90 E 1199625.60	RIM = 533.02 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 = 528.53 IE = 522.30 (6" NE) IE = 523.53 (6" SW)	
SDCB 5 TYPE 1 W/ BEEHIVE GRATE N 670318.18 E 1199789.93	RIM = 525.30 IE = 521.80 (12" NE) IE = 522.30 (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)	
SDCB 8 TYPE 1 N 670409.68 E 1199824.79	RIM = 522.41 IE = 519.11 (12" N) IE = 519.11 (12" S)	
SDCB 9 TYPE 1 N 670435.22 E 1199824.13	RIM = 522.27 IE = 518.96 (12" NW) IE = 518.96 (12" S)	
SDCB 10 TYPE 1 N 670475.09 E 1199785.97	RIM = 522.56 IE = 518.24 (12" N) IE = 518.24 (12" SE) IE = 518.57 (8" NW)	
SDCB 12 TYPE 1 N 670488.81 E 1199760.75	RIM = 523.06 IE = 519.89 (8" SW) IE = 519.89 (8" SE)	
SDCB 13 TYPE 1 N 670313.26 E 1199580.40	RIM = 532.13 IE = 529.40 (8" SE) IE = 529.40 (8" NE)	
SDCB 14 TYPE 1 N 670263.15 E 1199624.84	RIM = 533.06 IE = 530.00 (8" NW)	



ntegrus ARCHITECTU





STATE PROJECT NO.: 2020
PIERCE COLLEGE PUYALL
NEW STEM BUILDING

 Date:
 05/05/22

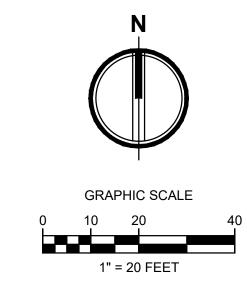
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 22135.00

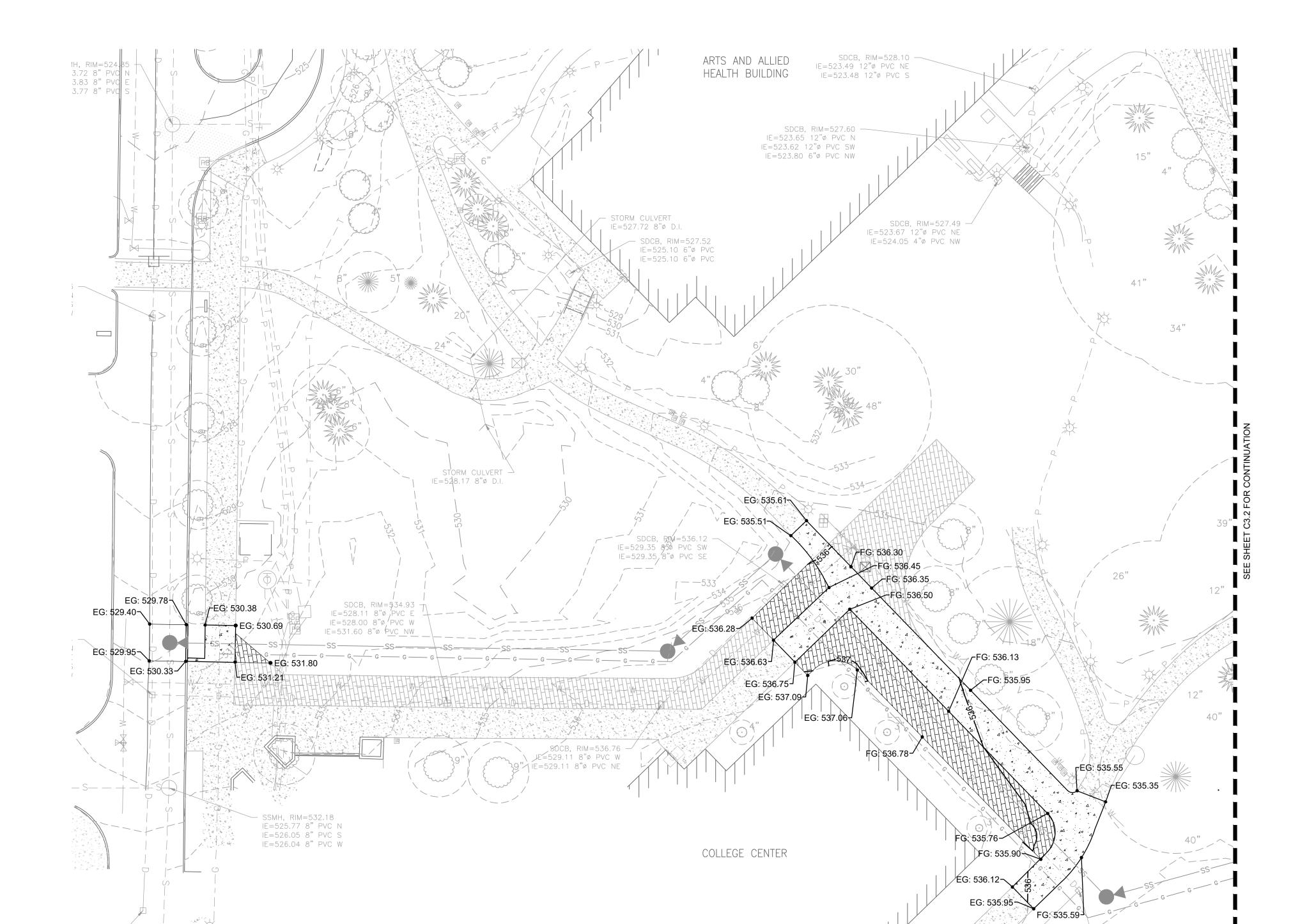
 Drawn By:
 C. HOVDE

 Checked by:
 W. FIERST

Revisions # Date Description

GRADING AND DRAINAGE PLAN







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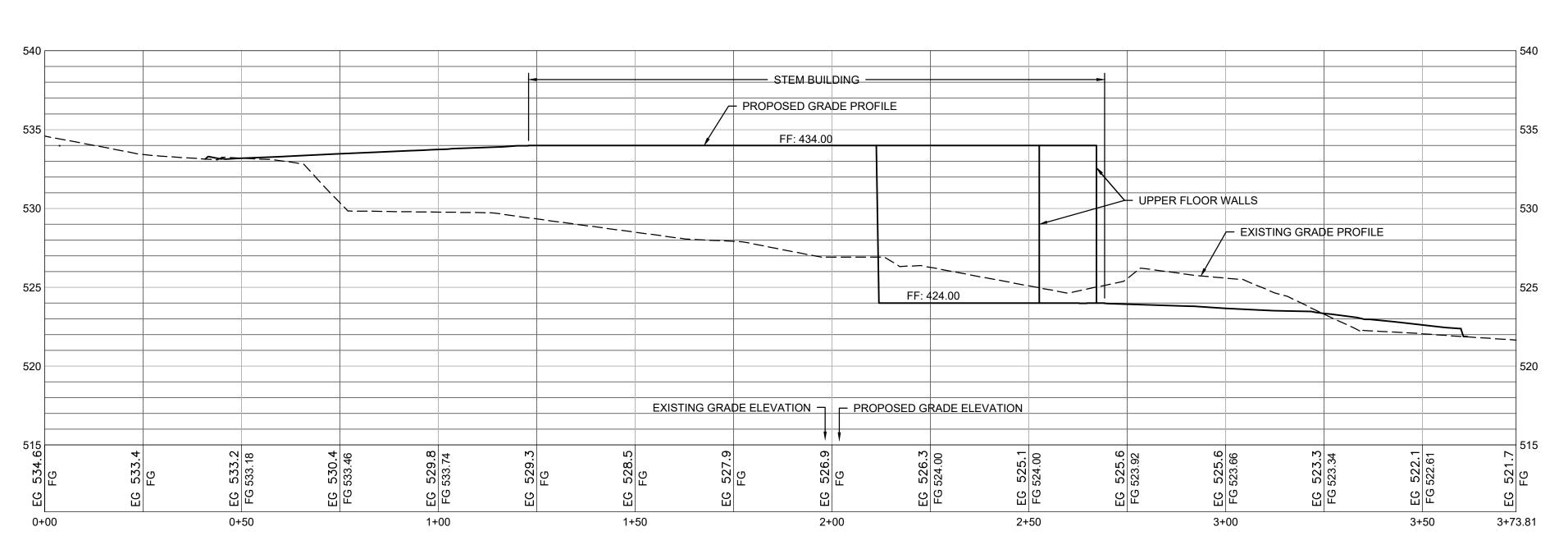
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Drawn By:	C. HOVDE
Checked by:	W. FIERS
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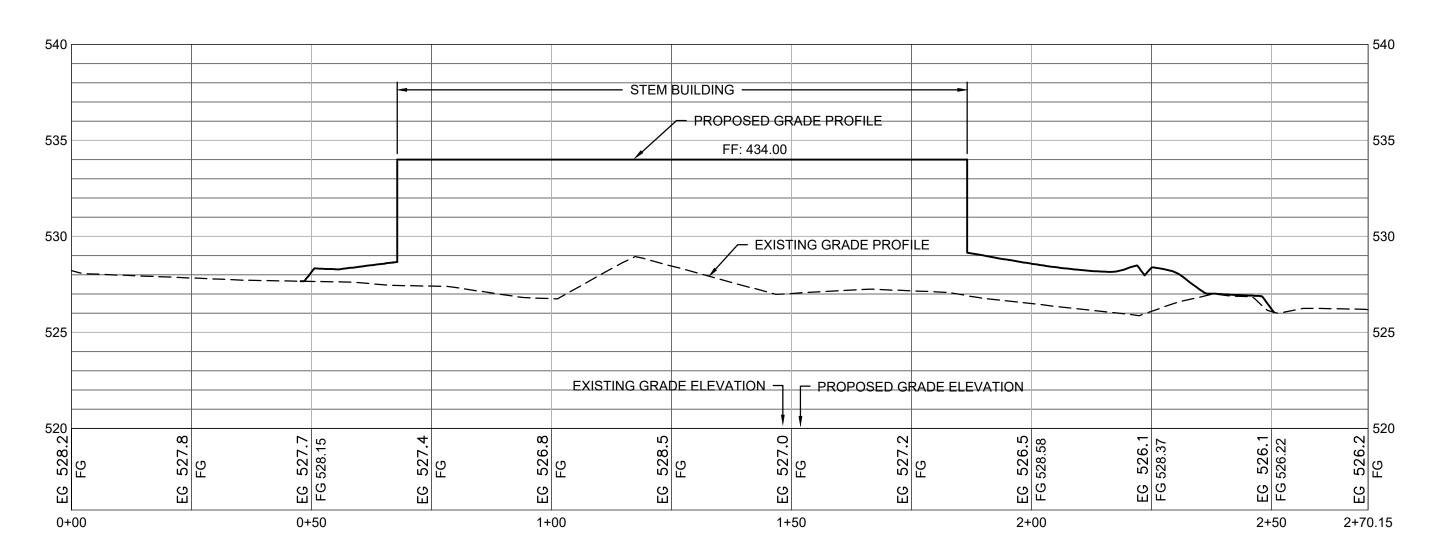
Description

Date

GRADING AND DRAINAGE PLAN



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



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

E PROJECT NO.: 202
SE COLLEGE PUYAL
NEW STEM BUILDING
1601 39th AVE SE
Puyallup, WA 98374 STATE | PIERCE

2215 North 30th Street, Suite 300 Tacoma, WA 98403 253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

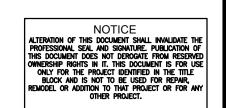
05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST

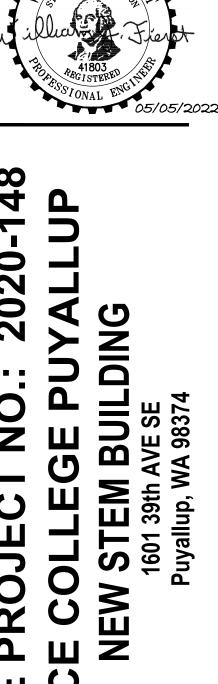
Revisions

Description

SITE SECTIONS

Date

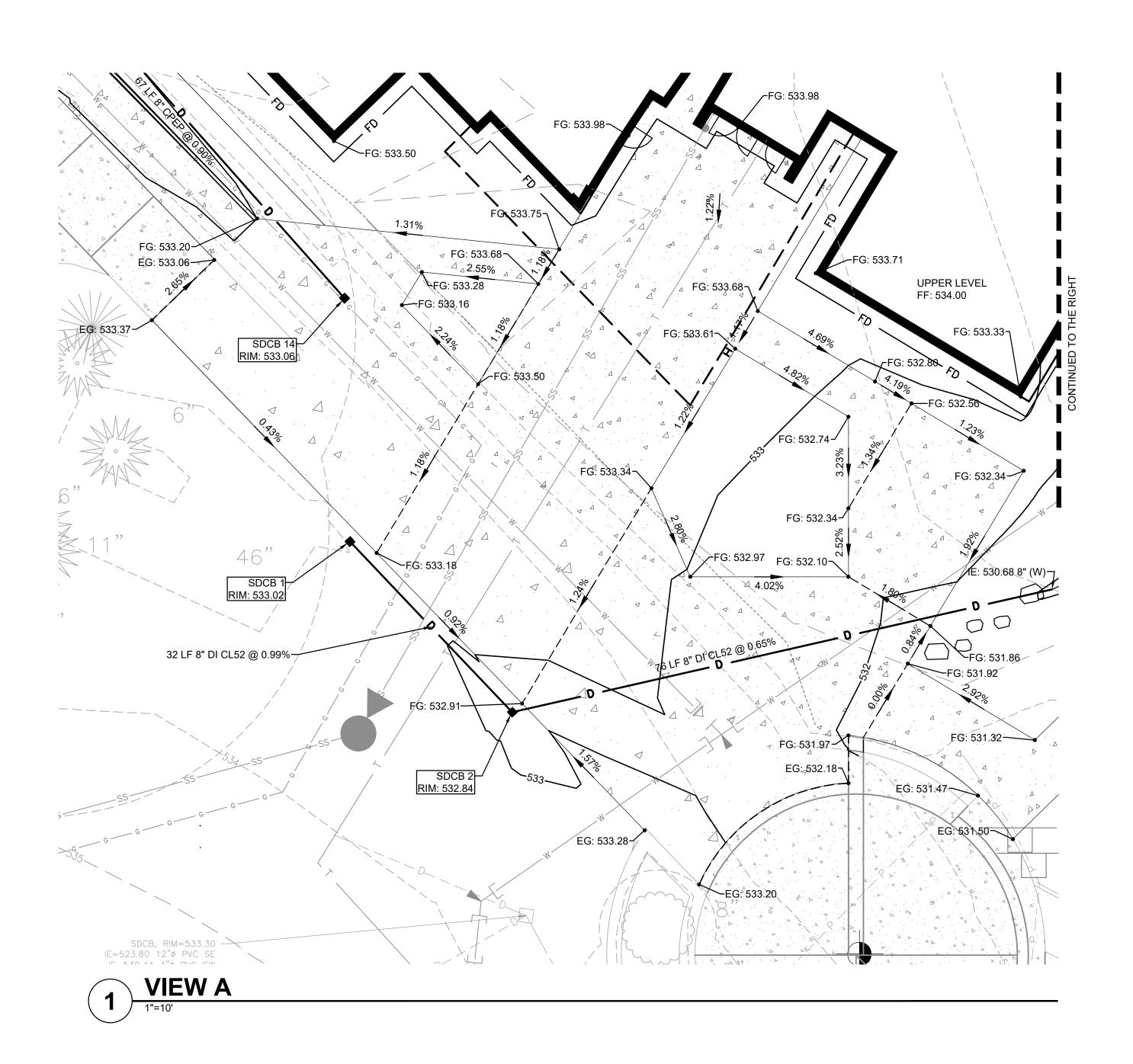


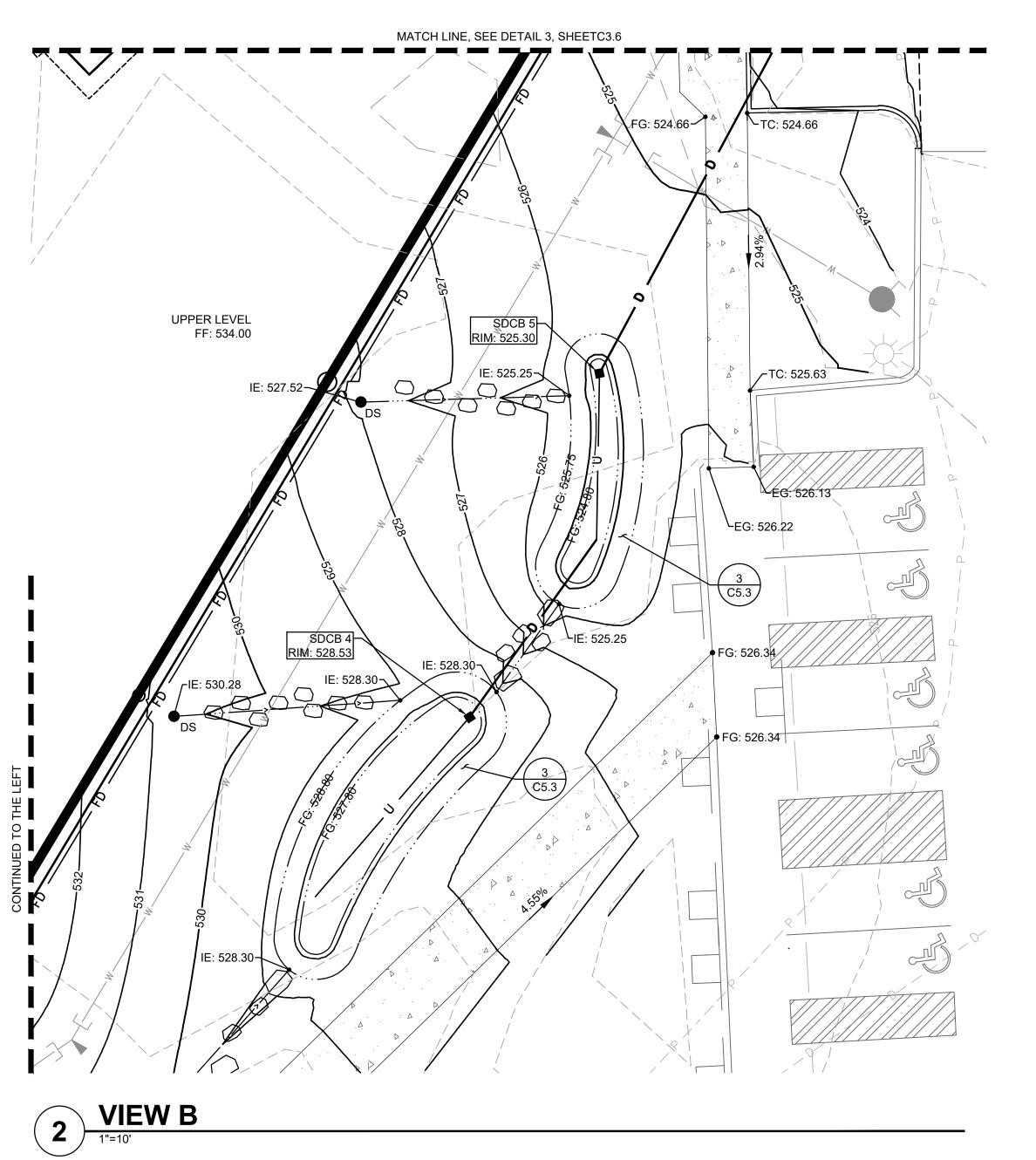


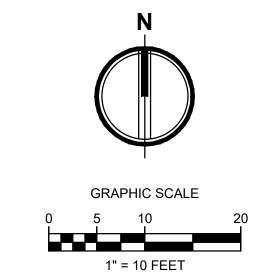
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GRADING DETAILS









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Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST
Pavisi	one

Revisions				
		#	Date	Description

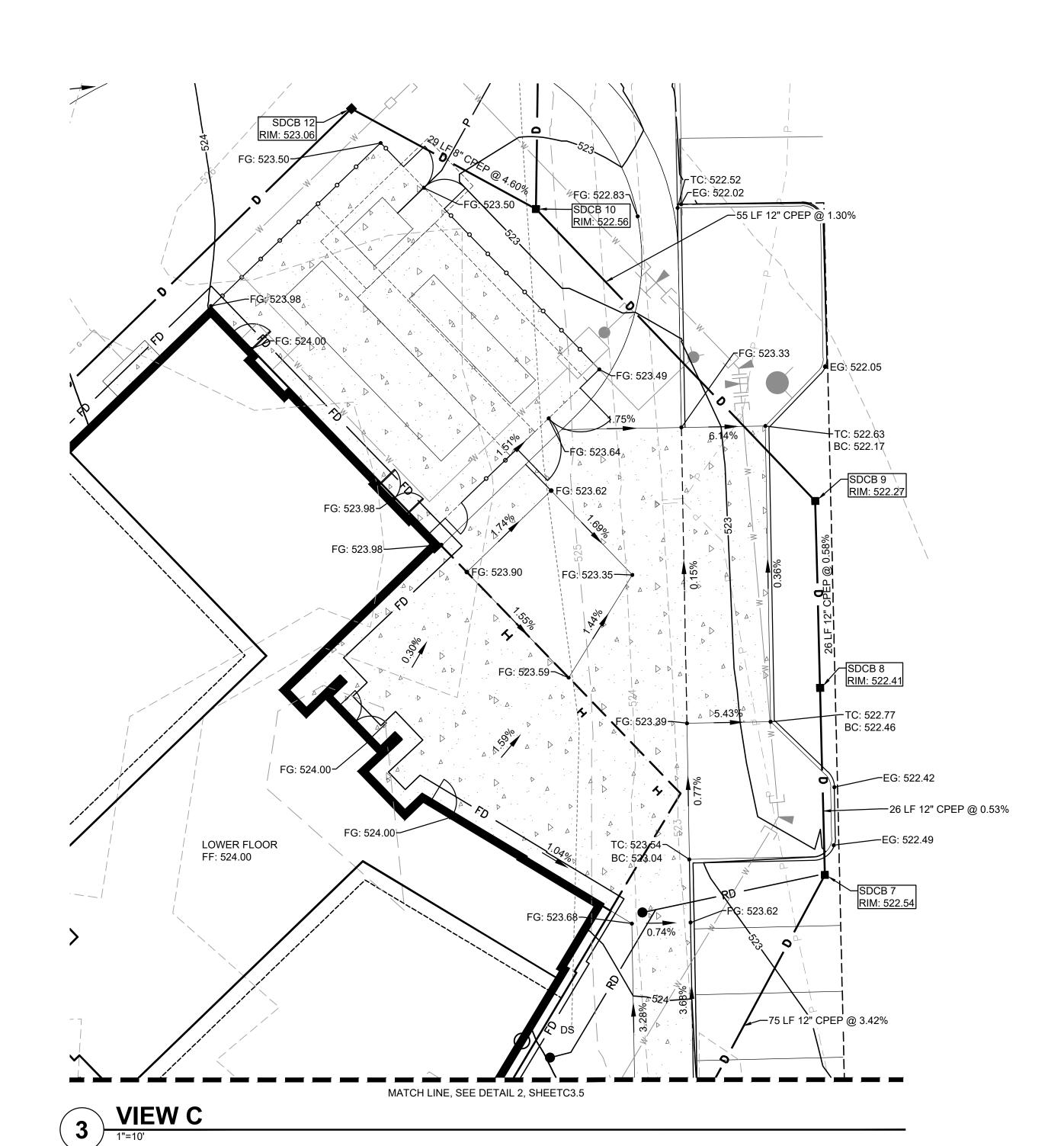
GRADING DETAILS

C3.6

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SITE PERMIT SET



80.0' WETLAND BUFFER

COLLEGE

C21.5"

SEE SHEET C4.2 FOR CONTINUATION

C20.5"

TAG 378

F38.5"

SP-3

N 670663.56 E 1199809.87

(8) (C5.1)

 $\Gamma \otimes I$

- 8.0' TYP.

TYP.

Tag 304 F19.3"

> Tag 305 _ C28.8"

> > TAG 311

TAG 323 ___/ F20.6"

TAG 324 _ F30"

E 1199559.13

TAG 348

TAG 364

F23.1"

F19"

C15.4"

TAG 360

F33"

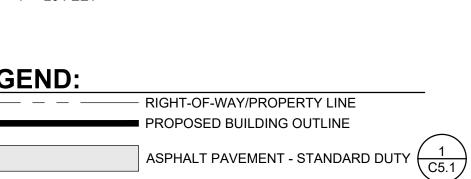
F15.5"

TAG 308 F36" N 670759.49 E 1199606.11

F22/9"

TAG 370

F26.8"



ASPHALT PAVEMENT - HEAVY DUTY

CEMENT CONCRETE - STANDARD DUTY

CEMENT CONCRETE - HEAVY DUTY

GRAVEL SURFACING $\begin{pmatrix} 7 \\ C5.1 \end{pmatrix}$ GRASSPAVE SURFACING $\begin{pmatrix} 10 \\ C5.1 \end{pmatrix}$

•	BOLLARD PROTECTION. SEE LANDSCAP FOR MORE INFORMATION.
_	CEMENT CONCRETE WHEEL STOP 6
X	CHANGE IN CURB TYPE / END CURB
EC	CONCRETE EXTRUDED CURB $\begin{pmatrix} 4 \\ C5.1 \end{pmatrix}$

IC INTEGRAL CURB AND SIDEWALK

FC FLUSH CURB $3 \over C5.1$

TRAFFIC CURB $\begin{pmatrix} 5 \\ C5.1 \end{pmatrix}$ CONCRETE CURB AND GUTTER $\begin{pmatrix} 9 \\ C5.1 \end{pmatrix}$

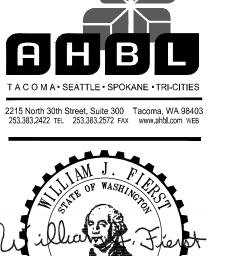
3" ROLLED CURB PER WSDOT STD
DETAIL F-10.18-02, CURB 1 TYPE

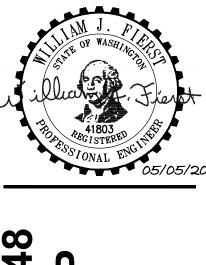
PAVING NOTES

- THE EXISTING SITE SOILS REQUIRE PROPER COMPACTION PRIOR TO PLACEMENT OF PAVING AND UTILITY IMPROVEMENTS.
- 2. 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.
- 3. 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.





Puyallup, WA 98374

Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

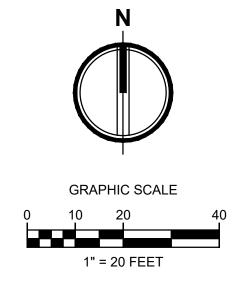
Revisions # Date Description

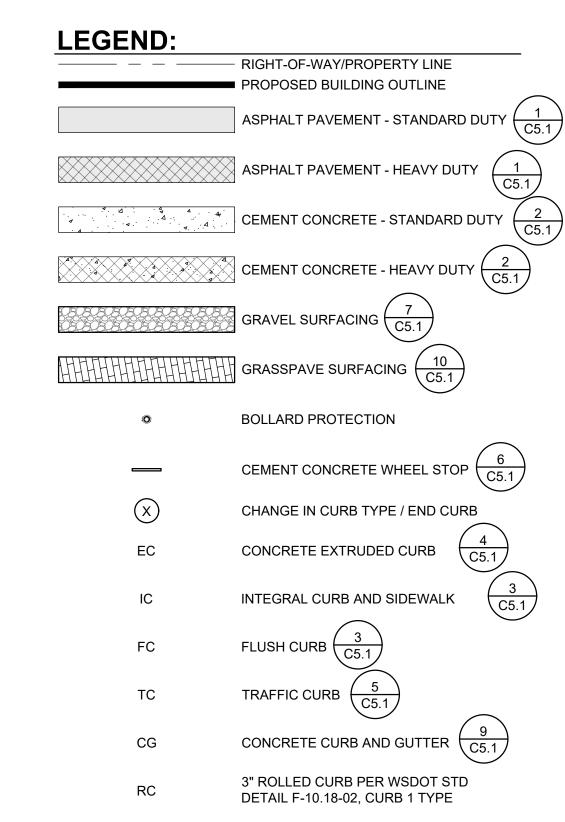
PAVING AND HORIZONTAL CONTROL PLAN

C4.1

NOTICE

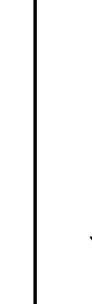
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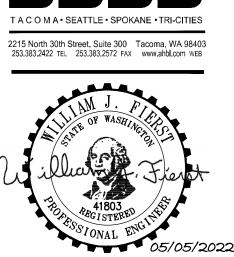


KEYNOTES:

- 1) FENCE, SEE LANDSCAPE ARCHITECTURAL PLANS
- (2) TRANSFORMER, SEE ELECTRICAL PLAN
- (3) GENERATOR, SEE ELECTRICAL PLAN
- 4 CHILLER, SEE MECHANICAL PLAN
- BOLLARD PROTECTION, SEE LANDSCAPE FOR MORE INFORMATION







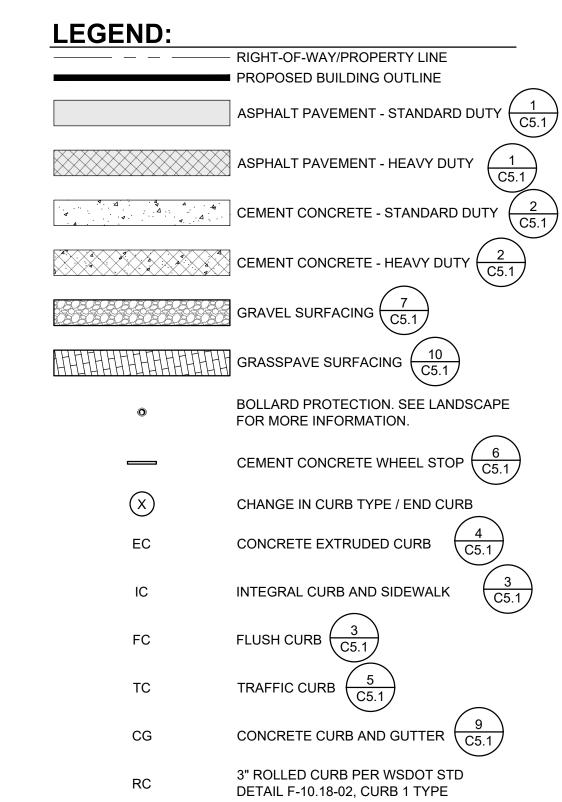
Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

Date Description

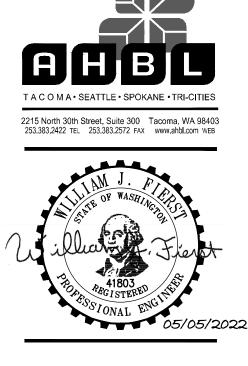
PAVING AND HORIZONTAL CONTROL PLAN

C4.2

SITE PERMIT SET









Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

Revisions # Date Description

PAVING AND HORIZONTAL CONTROL PLAN

C4.3

NOTICE

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N 670273 55 E 1190348 50

COLLEGE CENTER

─N 670152.28 E 1199428.63

ARTS AND ALLIED HEALTH BUILDING

14" MIN. FROM FACE OF CURB

TO EDGE OF PAVEMENT

► ADHESIVE, SEE NOTE

- CRUSHED SURFACING

BASE COURSE PER

WSDOT 9-03.9(3)

GEOTEXTILE FABRIC (MIRAFI 140N OR

NON-WOVEN

APPROVED

EQUIVALENT)

1-1/2" R -

DEPTH OF -

1" R (TYP)

THE ADHESIVE SHALL MEET THE

NOT TO SCALE

REQUIREMENTS OF WSDOT

SECTION 9-26.1 FOR TYPE-II **EPOXY BONDING AGENT**

THRU JOINT

(TYP)

EXTRUDED CURB

1. DEPTHS INDICATED ARE COMPACTED THICKNESSES.

GRAVEL SECTION

PROCTOR DENSITY.

NOTES:

2. CRUSHED SURFACING TOP COURSE AND SUBGRADE SHALL BE COMPACTED TO AT

BASE SHALL BE INCREASED AS REQUIRED TO ACHIEVE A FIRM AND UNYIELDING

LEAST 95% MAXIMUM DRY DENSITY PER ASTM D1557. IF COMPACTION REQUIREMENT IS

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

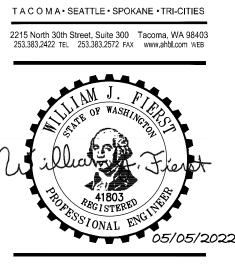
INTO THE IN-PLACE COMPACTED AGGREGATE. ONCE PLACED,

THE MIXTURE SHALL BE COMPACTED TO 95% STANDARD

2. GRASS TYPE SHALL BE 20% KENTUCKY BLUEGRASS, 20%

HARD FESCUE AND 60% PERENNIAL RYEGRASS.

NOT MET, EXCAVATE AND REPLACE WITH 6" GRAVEL BASE PER WSDOT 4-02. GRAVEL



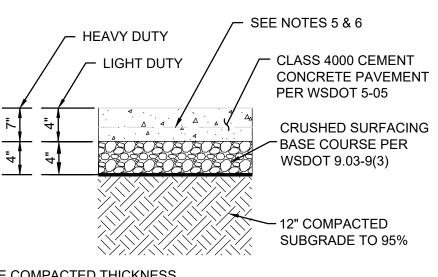
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05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST

Revisions # Date Description

PAVEMENT NOTES AND DETAILS

C5.1



- 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 LIGHT 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" CLR (TYP) --

FACE OF CURB

CONCRETE SECTION

└─#3 BARS (2)

-13/16" DIA. HOLES -

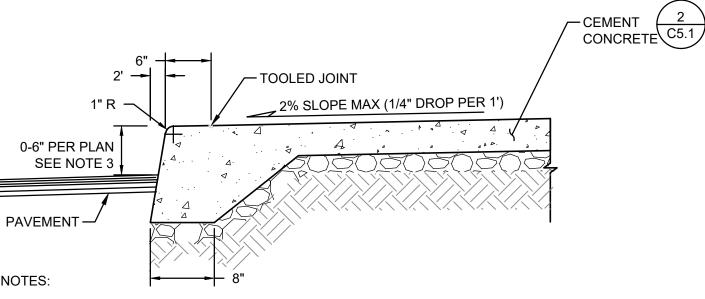
PLAN

6 1/2" -

5 1/2" --

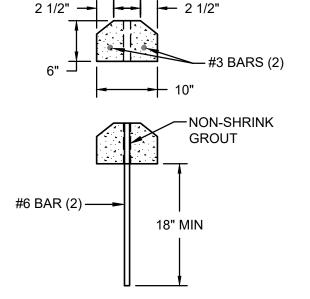
EDGE OF PAVEMENT OR FACE OF CURB

ELEVATION



- 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
- 3. FLUSH CURB SHALL BE 0" IN HEIGHT. TYPICAL INTEGRAL CURB VARIES PER PLAN.

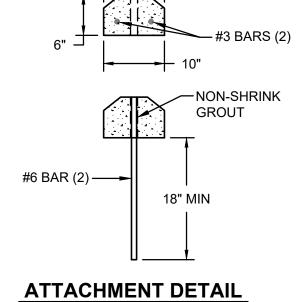




1. THE NON-SHRINK GROUT USED TO ATTACH THE PRECAST CURB SHALL CONSIST OF 3:1 SAND AND CEMENT. GROUT TO A DEPTH OF 1" FROM THE TOP OF THE BUMPER.

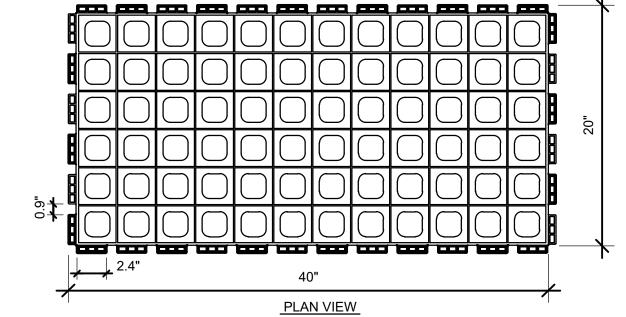
> LOCATIONS FOR WEEPHOLES, AND V-SLOTS SHALL BE IDENTIFIED ON THE DELIVERY ORDER DRAWINGS.

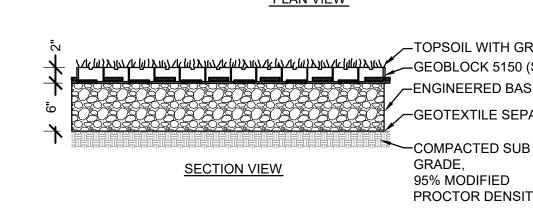
> CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.



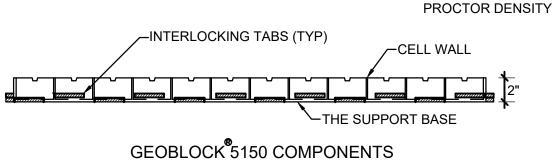
WHEELSTOP

1'2" R —





-TOPSOIL WITH GRASS (SEE NOTE 2) GEOBLOCK 5150 (SEE DETAIL BELOW) -GEOTEXTILE SEPARATION LAYER



GEOBLOCK 5150-ENGINEERED BASE (SEE NOTE 1) COMPACTED SUB-GRADE, 95% MODIFIED PROCTOR DENSITY

PROVIDE RIP-RAP DOWN TO BOTTOM OF BIORETENTION POND TOP OF CURB -ASPHALT PAVEMENT

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

CURB DRAINAGE OPENING

HEAVY DUTY

2.5"

ENGINEER.

STANDARD DUTY

ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.

ASPHALT SECTION

CEMENT CONCRETE

ASPHALT

TRAFFIC CURB

C5.1 PAVEMENT

2. THE CONTRACTOR SHALL EXPOSE EXISTING FILL, PROOF ROLL

ENCOUNTERED, YIELDING MATERIALS SHALL BE REPLACED WITH IMPORTED STRUCTURAL FILL MATERIAL. THE DEPTH OF MATERIAL

REPLACEMENT SHALL BE DETERMINED BY THE GEOTECHNICAL

SURFACING PER PLAN -

AND COMPACT TO 95%. IF YIELDING CONDITIONS ARE

- HMA CLASS 1/2", PG 58H-22 PER WSDOT 5-04

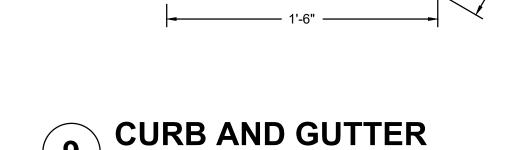
CRUSHED SURFACING

#4 BARS, TYP

BASE COURSE PER

WSDOT 9.03-9(3)

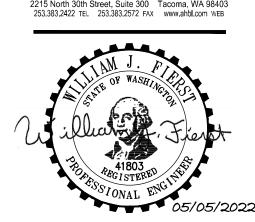
- 12" COMPACTED SUBGRADE TO 95%



(10) GRASSPAVE

NOT TO SCALE

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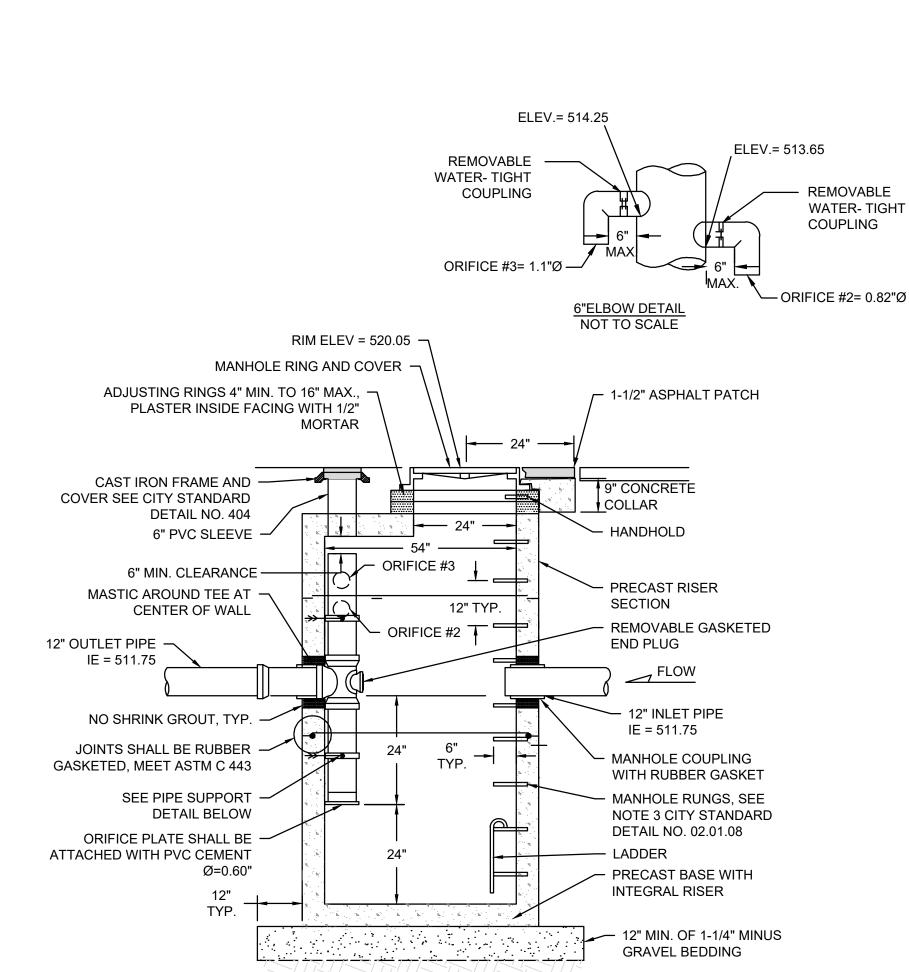
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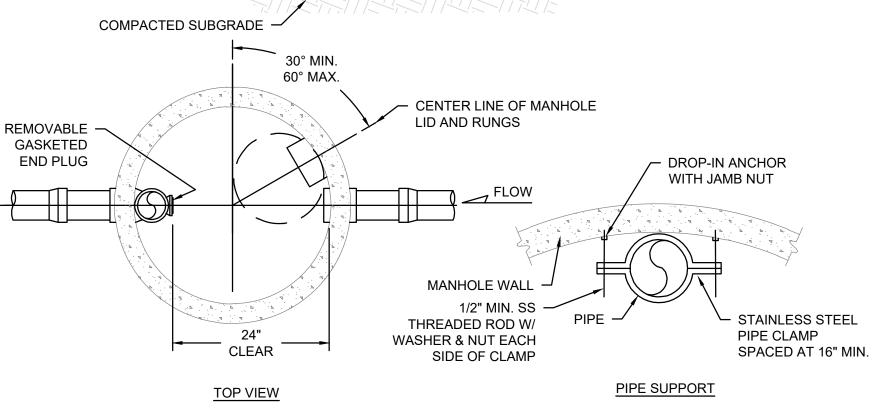
05/05/22 22135.00 Job No.: C. HOVDE Drawn By: W. FIERST Checked by:

Revisions # Date Description

STORM DRAINAGE **NOTES AND DETAILS**

C5.2

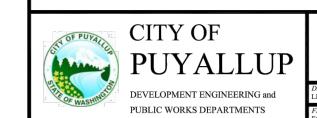




NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.

NOTES FOR FLOW CONTROL MANHOLE:

- 2. FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
- MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (ASSHTO M-199) AND MEET ALL WISHA REQUIREMENTS. MANHOLE RUNGS SHALL BE PARALLEL OR APPROXIMATELY RADIAL AT THE OPTION OF THE MANUFACTURER, EXCEPT THAT ALL STEPS IN ANY MANHOLE SHALL BE SIMILAR. PENETRATION OF OUTER WALL BY A RUNG LEG IS PROHIBITED. SEE MANHOLE STEP AND LADDER DETAIL, CITY STANDARD DETAIL NO. 06.01.04.
- 4. PRECAST RISER SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE WALL THICKNESS OF TWO (2) INCHES MINIMUM. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MINIMUM DISTANCE BETWEEN HOLES IS EIGHT (8) INCHES.
- 5. PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
- 6. FLEXIBLE JOINTS SHALL BE RUBBER GASKETED IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS. MORTARED, DRY-PACKED, OR CAST-IN-PLACE JOINTS WILL BE PERMITTED FOR CONNECTIONS TO OR THROUGH MANHOLES. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN ONE (1) FOOT OF EACH CONNECTION TO OR THROUGH SAID MANHOLES. CONNECTIONS TO MANHOLE WITH PVC PIPE SHALL UTILIZE A MANHOLE COUPLING AND RUBBER GASKET.
- 7. THE COVER ON THE MANHOLE SHALL BE MARKED WITH "STORM" OR "DRAIN" IN TWO (2) INCH RAISED LETTERS. SEE MANHOLE RING AND COVER DETAIL, CITY STANDARDS DETAIL NO. 06.01.02 AND 06.01.03.
- 8. STAINLESS STEEL PIPE CLAMP WITH 1/2" DIAMETER STAINLESS STEEL THREADED ROD WITH WASHER AND NUT EACH SIDE OF CLAMP. PROVIDE 1/2" DIAMETER DROP-IN ANCHOR WITH JAMB NUT AT WALL. PIPE CLAMPS SHALL BE PLACED AT SIXTEEN (16) INCHES ON CENTER.
- 9. FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.

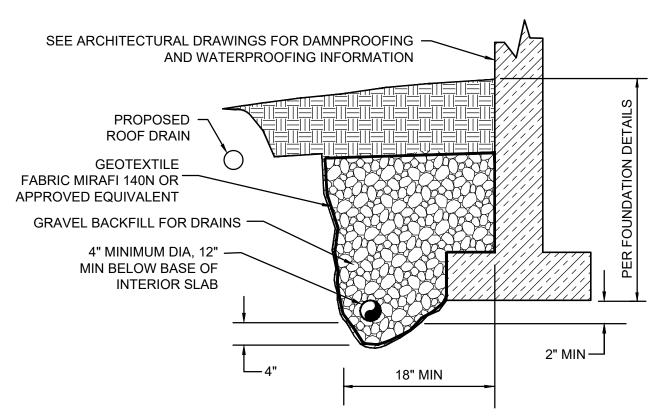


REMOVABLE

WATER- TIGHT COUPLING

> FLOW CONTROL MANHOLE **NOTES**

CONTROL STRUCTURE - SDCB 18



"STORM" FOR STORM CLEANOUT

DRILL AND TAP (SPLITTING -THE SEAM) SET MADE BOLT-

DOWN WITH 3/8" SS ALLEN-

HEAD BOLTS - 2 PLACES

1/8" RAISE - 1/2"—

WIDE BORDER

STORM

STORM SEWER

← 7-3/4" →

------8-3/4" -----

CAST IRON RING AND LOCKING COVER

STORM SEWER

FFE PER PLAN

-6" MIN FOR

BUILDING FOUNDATION. REFER

TO STRUCTURAL DRAWINGS.

NON-HARDSCAPE

EXTERIOR SURFACES

NOTES: 1. PIPE MATERIAL PER PLAN. 2. PIPE DIAMETER PER PLAN.

APPROVED EQUAL.

APPROVED EQUAL.

3. ABS TO PVC USE PVC ADAPTOR OR

4. PVC TO CAST IRON OR CONCRETE USE

FERNCO W/STAINLESS STEEL CLAMPS OR

FERNCO W/STAINLESS STEEL CLAMPS OR

3000 psi CLASS C-

12"Ø —

WATER

TIGHT PLUG

WALL, SEE STRUCTURAL DETAILS. —

SEE ARCHITECTURAL PLANS

2" MIN.

 \sim FOOTING DRAIN $\frac{3}{(C5.2)}$

ROOF DOWNSPOUT

6" PVC CAP

SEE ARCHITECTURAL DETAILS.

CUT HOLE TO ALLOW

CLEANOUT

PROVIDE

DOWNSPOUT CONNECTION

FITTINGS AS

REQUIRED.

6" PVC SCH 40 TYP.

DOWNSPOUT TO

1/8" CLEARANCE.

PENETRATE WITH

FIBRE JOINT-

PACKING

45° (1/8) BEND —

CONCRETE (TYP)

CLEANOUT

ackslash CLEANOUT FRAME AND -

CONNECT TO -

DOWNSTREAM 8"

ROOF DRAIN LINE

GRATE PER DETAIL

SURFACE SEAL; NATIVE SOIL OR OTHER LOW PERMEABILITY MATERIAL.

> GRAVEL BACKFILL FOR DRAINS; WSDOT STANDARD SPECIFICATIONS, SECTION 9-03.12(4),

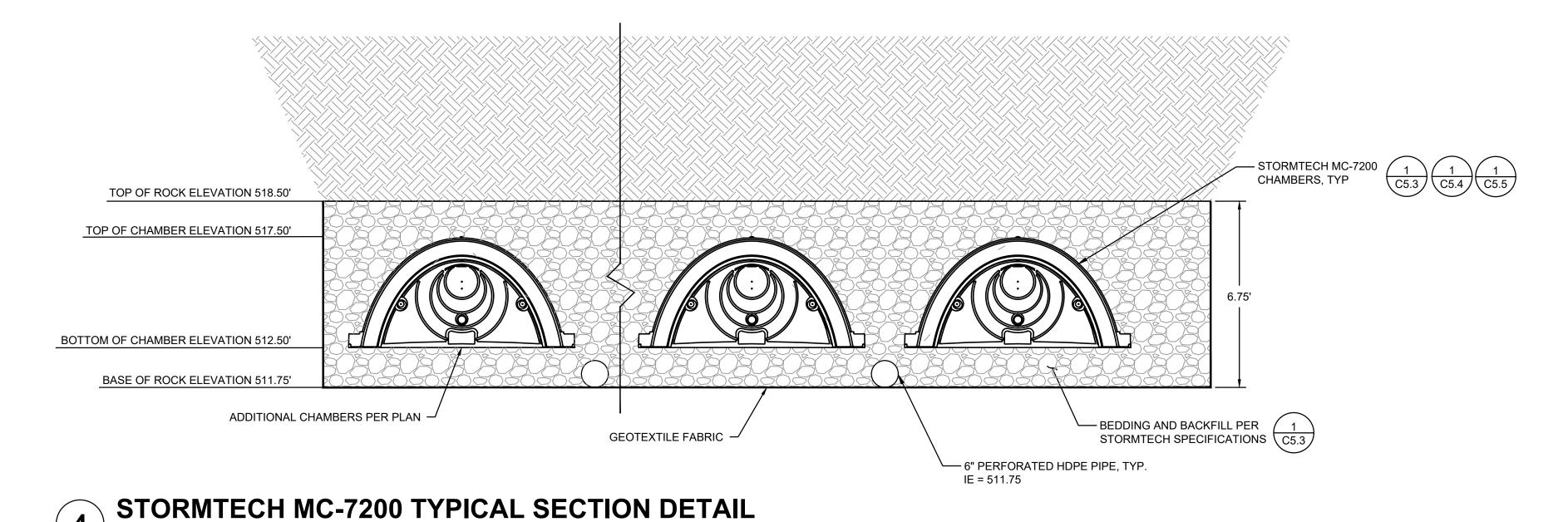
FOUNDATION STRUCTURE

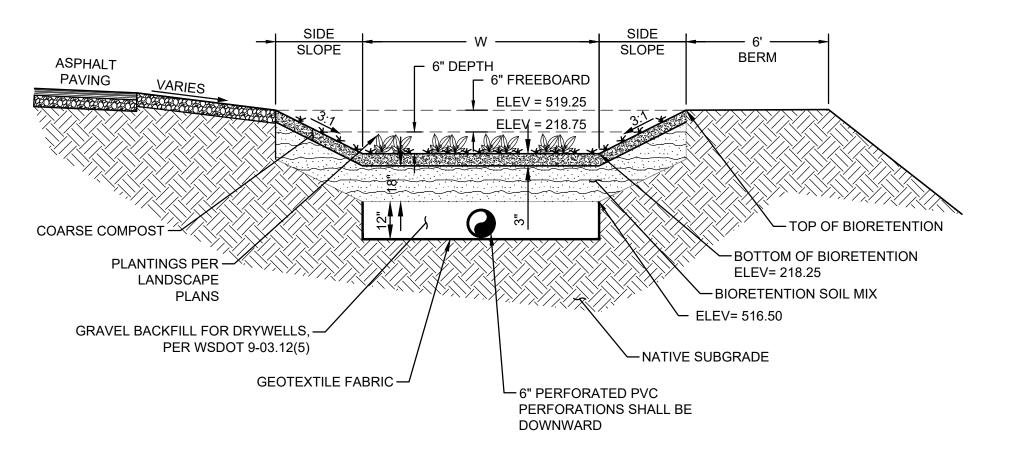
DRAIN PIPE; PERFORATED OR SLOTTED RIGID PVC PIPE LAID WITH PERFORATIONS OR SLOTS FACING DOWN; TIGHT JOINTED; WITH A POSITIVE GRADIENT. DO NOT USE FLEXIBLE CORRUGATED PLASTIC PIPE. DO NOT TIE BUILDING DOWNSPOUT DRAINS INTO FOOTING

— GEOTEXTILE FABRIC MIRAFI 140N OR APPROVED EQUIVALENT - FULLY ENCASE GRAVEL BACKFILL FOR DRAINS

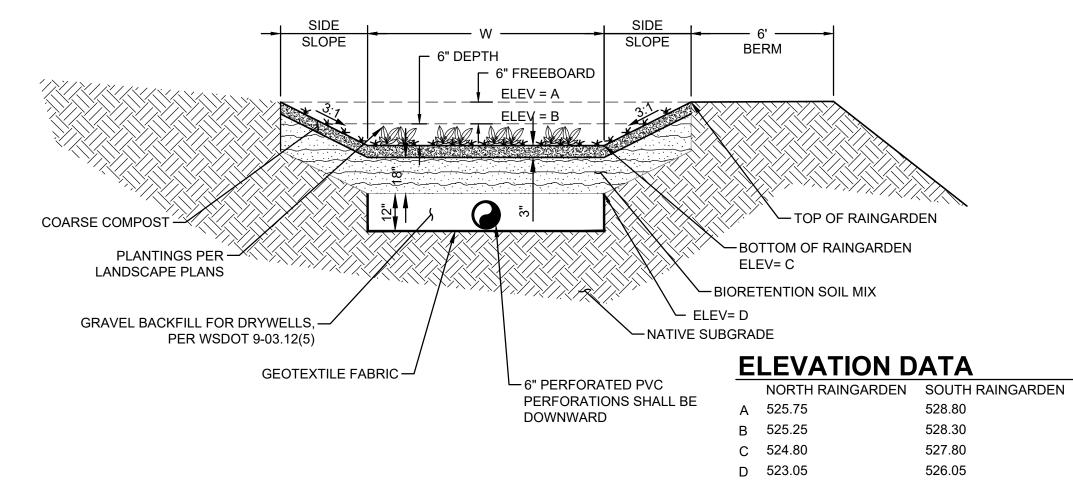
FOOTING DRAIN

STORMTECH MC-7200 CHAMBER DETAIL 1

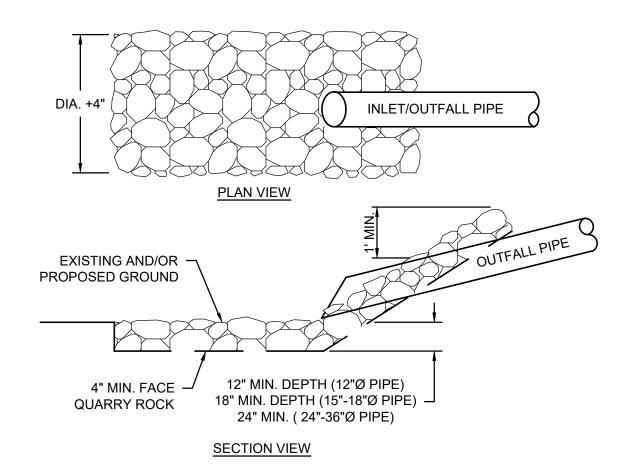




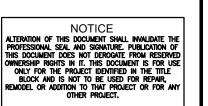
TYPCICAL BIORETENTION SECTION DETAIL



TYPICAL RAINGARDEN SECTION DETAIL NOT TO SCALE



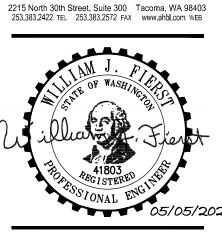
5 ROCK OUTFALL PROTECTION NOT TO SCALE



ntegrus Arenteetu

TACOMA·SEATTLE·SPOKANE·TRI-CITIES

2215 North 30th Street, Suite 300
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB



ATE PROJECT NO.: 2020-1 IERCE COLLEGE PUYALLU NEW STEM BUILDING

 Date:
 05/05/22

 Job No.:
 22135.00

 Drawn By:
 C. HOVDE

 Checked by:
 W. FIERST

Revisions
Date Description

STORM DRAINAGE NOTES AND DETAILS

C5.3

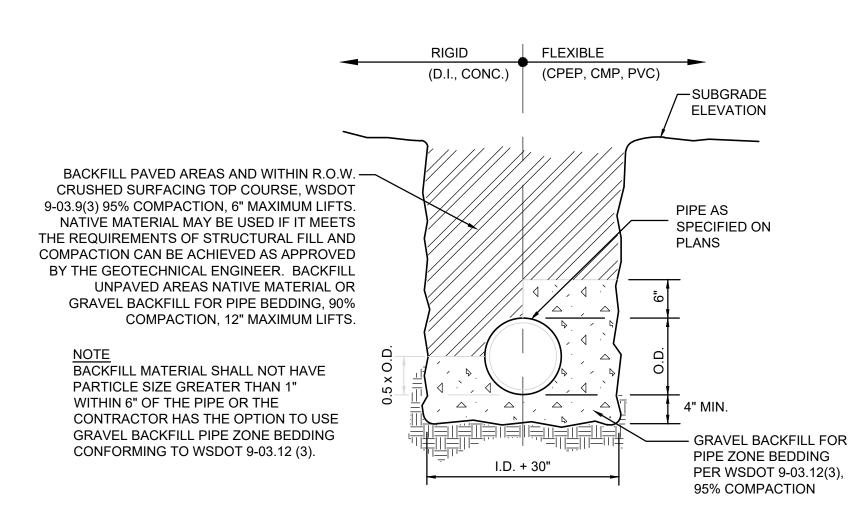
PROVIDE NEAT, STRAIGHT LINE WHERE -

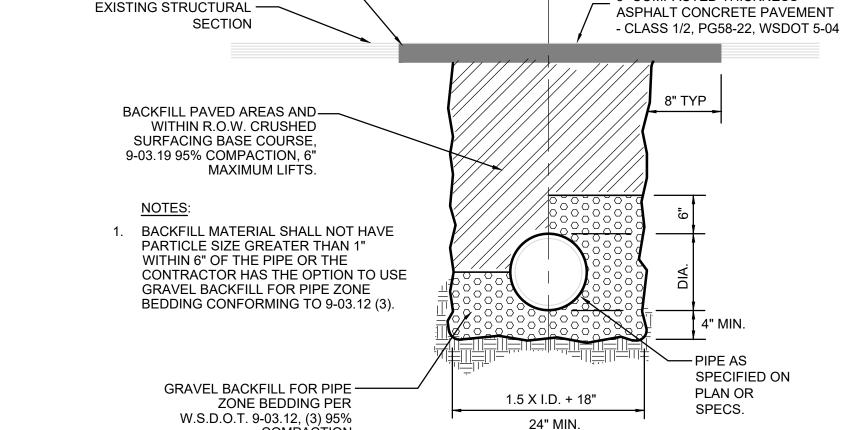
SEAL EDGES

COMPACTION

MATCHING EXISTING PAVEMENT, TACK &

STORMTECH MC-7200 CHAMBER DETAIL 2





RIGID

(D.I., CONC.)

FLEXIBLE

(CPEP, CMP, PVC)

3" COMPACTED THICKNESS

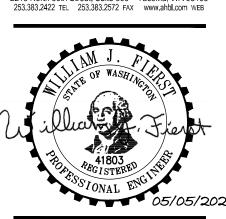
PIPE BEDDING AND BACKFILL IN TRENCHES

PAVEMENT PATCHING AND TRENCH DETAIL

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
- 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
- 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.



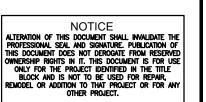


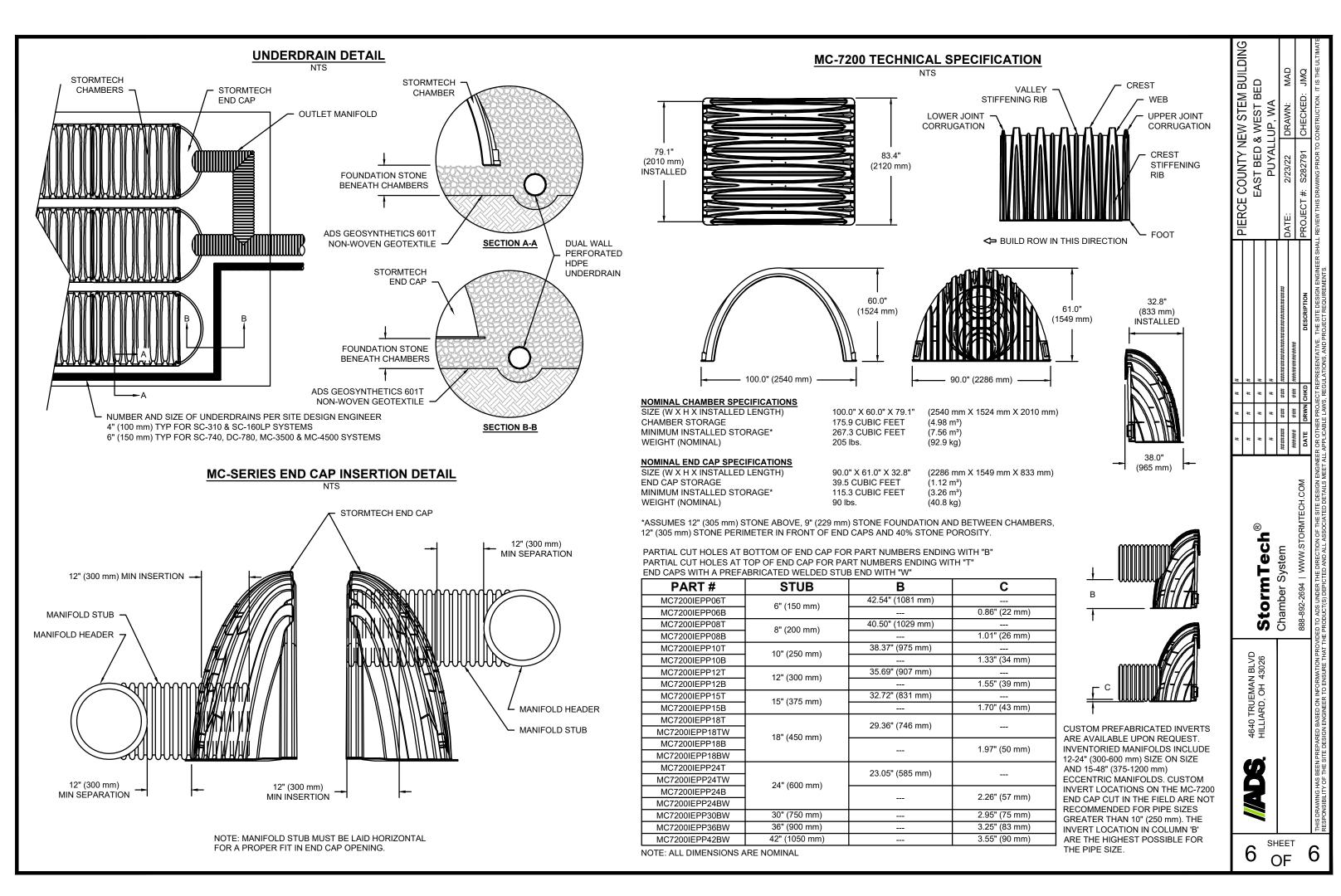
AVE SI Z PIER

Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST

Revisions # Date Description

STORM DRAINAGE **NOTES AND DETAILS**

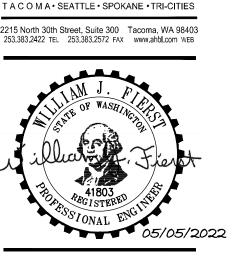




1 STORMTECH MC-4500 CHAMBER DETAIL 3
NOT TO SCALE

Integral





PIERCE COLLEGE PUYALLUF NEW STEM BUILDING 1601 39th AVE SE Puyallup, WA 98374

Date:	05/05/22
Job No.:	22135.00
Drawn By:	C. HOVDE
Checked by:	W. FIERST
Revisior	าร

Revisions
Date Description

STORM DRAINAGE NOTES AND DETAILS

NOTICE

ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT DEROGATE FROM RESERVED OWNERSHIP RIGHTS IN IT. THIS DOCUMENT IS FOR USE ONLY FOR THE PROJECT IDENTIFIED IN THE TITLE BLOCK AND IS NOT TO BE USED FOR REPAIR, REMODEL OR ADDITION TO THAT PROJECT OR FOR ANY OTHER PROJECT.

C5.5

LEGEND: STORM DRAIN MANHOLE STORM CATCH BASIN SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT POWER VAULT STREET LIGHT ON UTILITY POLE ELECTRICAL JUNCTION BOX TELEPHONE MANHOLE TELEPHONE JUNCTION BOX FIRE HYDRANT WATER VALVE WATER METER HANDICAPPED PARKING DECIDUOUS TREE EVERGREEN TREE STORM DRAIN LINE SANITARY SEWER LINE WATER LINE PROPOSED SANITARY SEWER MANHOLE PER COP STD DTL 04.01.01 --- PROPOSED SEWER MAIN PROPOSED FIRE HYDRANT ASSEMBLY PER COP STD DTL 03.05.01

PSE GAS FACILITIES EXCAVATION REQUIREMENTS:

PROPOSED GATE VALVE

---- G ----- PROPOSED GAS MAIN

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

- 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.
- 2. CONTRACTOR SHALL CALL THE PSE CONTACT PERSON FOR TRENCH AND ROUTE APPROVAL PRIOR TO STARTING EXCAVATION.
- 3. THE GAS MAIN TRENCH SHALL BE EXCAVATED TO PROVIDE A MINIMUM OF 36 INCHES OF FACILITY COVERAGE, TO A MAXIMUM TRENCH DEPTH OF 48
- 4. 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.
- 5. 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.
- 6. CONTRACTOR SHALL ALLOW 45 DAYS PRIOR NOTICE TO PSE TO ACCESS GAS MAINS IF INSTALLING PAVEMENT OR CURBS.
- 7. 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.
- 8. 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.

DO ARCHITEGT







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

 Date:
 05/05/22

 Job No.:
 22135.00

 Drawn By:
 E.Rivera

 Checked by:
 K.Lauzen

Revisions
Date Description

PROPOSED
SANITARY SEWER
AND WATER
OVERALL PLAN

C6.1

rexisting ground

47LF 8" PVC SS S=0.50%

12+00

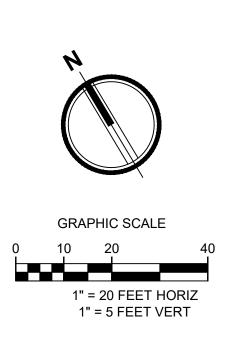
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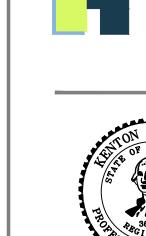
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11+00

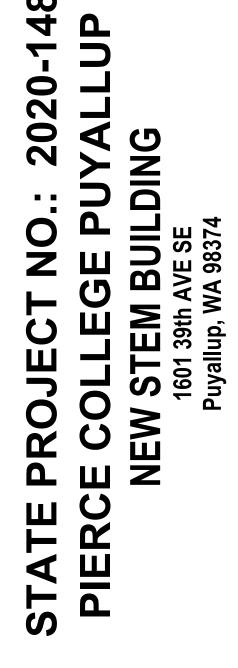
STA: 10+00.24 529.89 RIM 8"FL=523.15

10+00









Date:	05/05/22
Job No.:	22135.00
Drawn By:	E.Rivera
Checked by:	K.Lauzen
Revisi	nns

Date Description

PROPOSED
SANITARY SEWER
MAIN PLAN &
PROFILE

C6.2

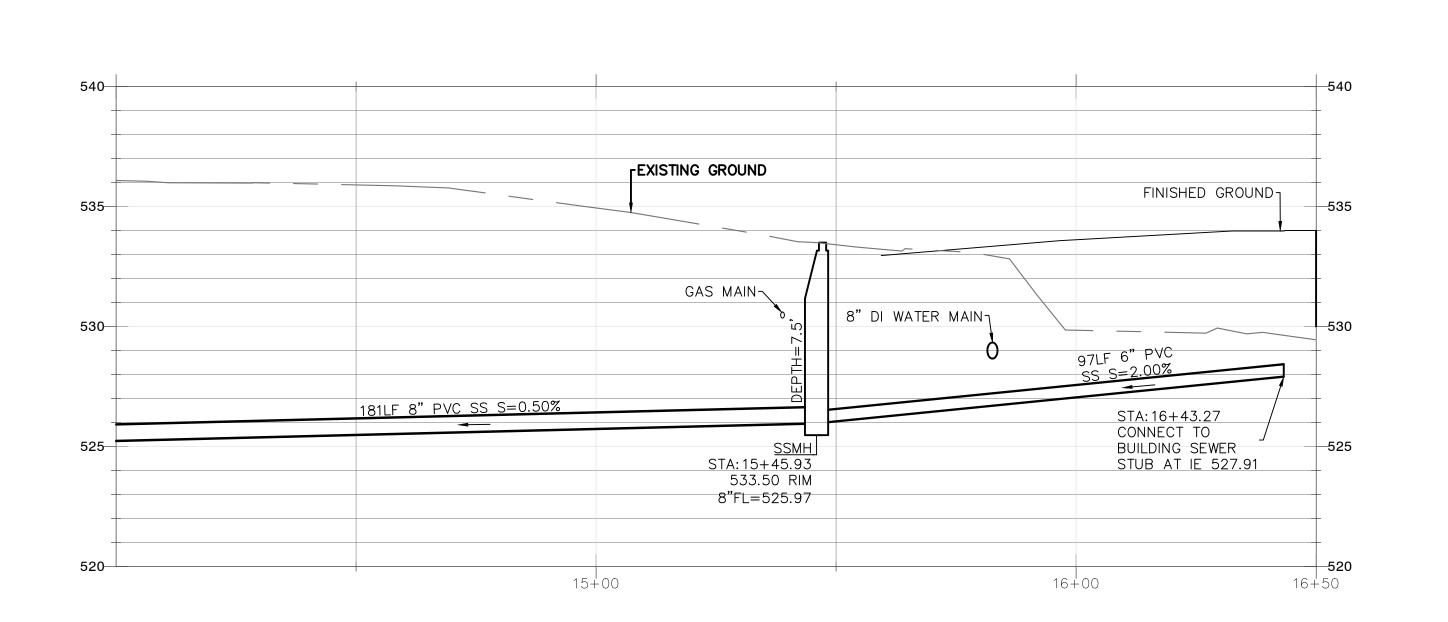
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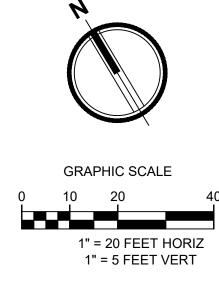
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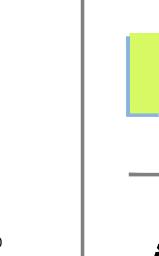
SSMH STA: 13+65.16 535.67 RIM 8"FL=525.07

155LF 8" PVC SS S=0.50%

13+00











STATE PROJECT NO.: 2020-14. PIERCE COLLEGE PUYALLUP NEW STEM BUILDING 1601.39th AVE SE

Date:	05/05/22
Job No.:	22135.00
Drawn By:	E.Rivera
Checked by:	K.Lauzen
Revisi	ons

Date Description

PROPOSED SANITARY SEWER MAIN PLAN & PROFILE

C6.3



C6.5

SHEET

STA: 14+53.00





STATE | PIERCI

05/05/22 22135.00 Drawn By: E.Rivera K.Lauzen

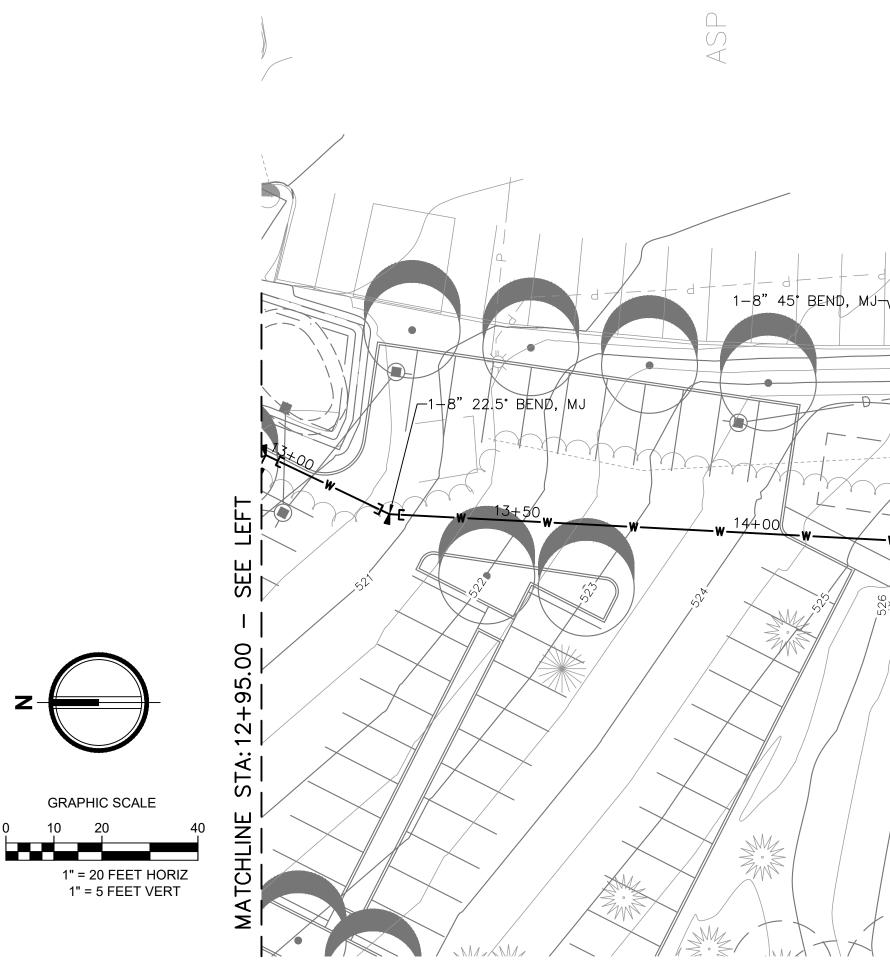
PROPOSED WATER

MAIN PLAN &

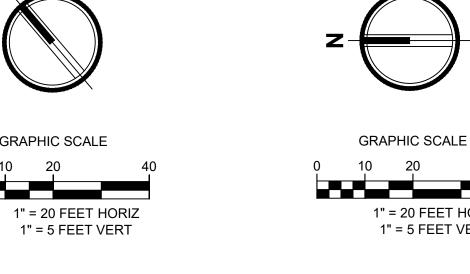
PROFILE

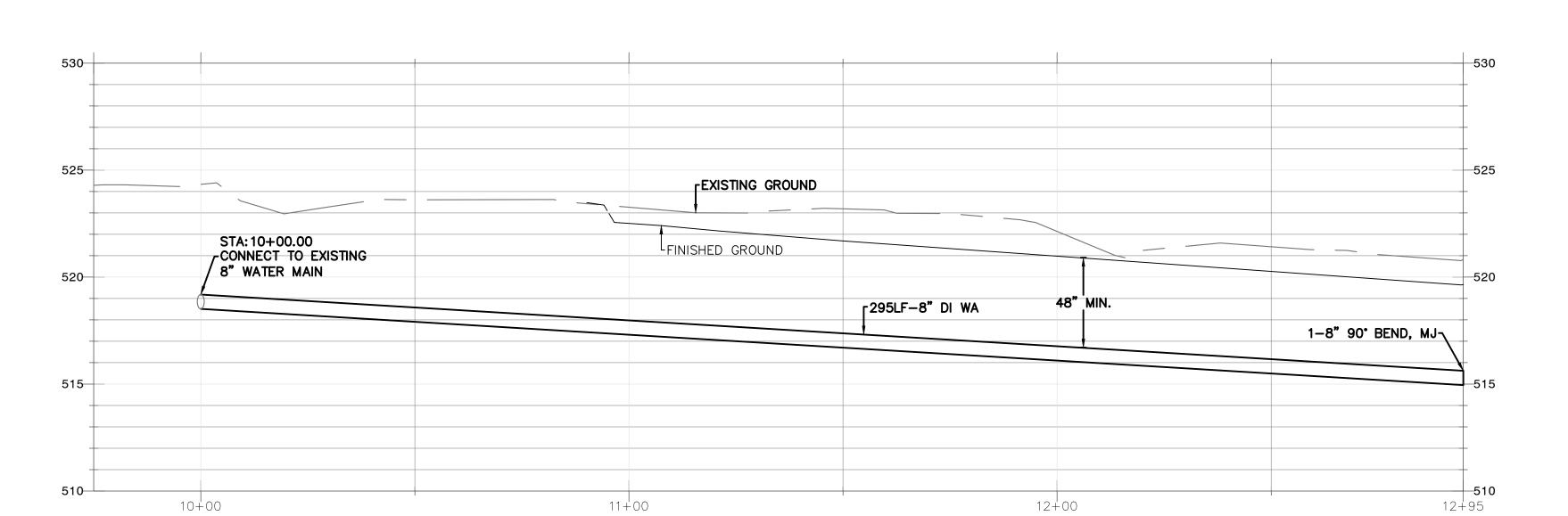
Date Description

C6.4









12+00

11+00

ASPHALT

1-8" 90° BEND, MJ \rightarrow

CONNECT TO EXISTING 8" WATER MAIN

1 - 8" TEE, MJ

1 - 8" SLEEVE, MJ

1 - 8" SPOOL, LENGTH TO FIT

1 - 8" MJ PLUG

W/ CONC BLOCKING

10+00



14+43







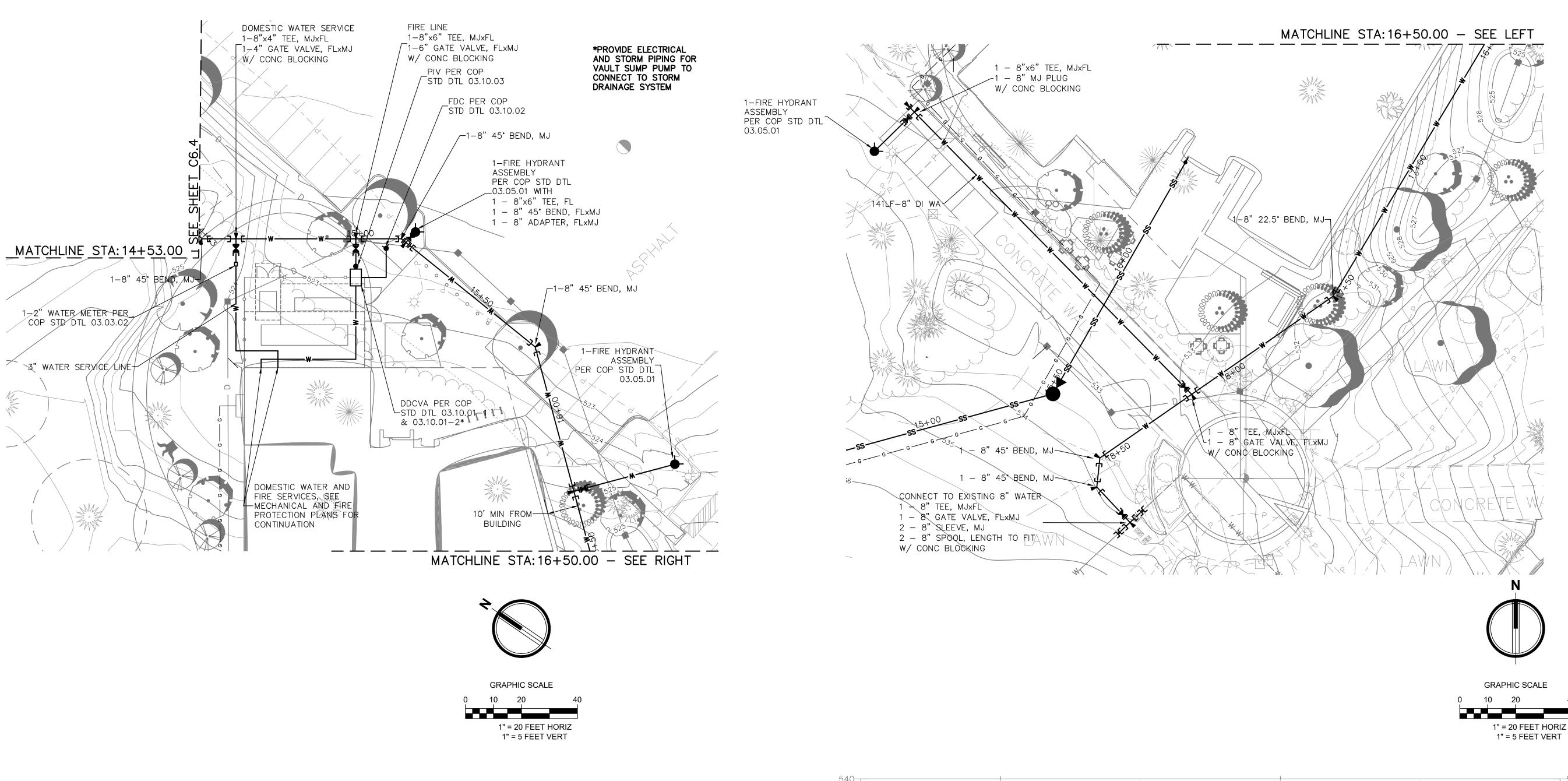
E PROJECT NO.: 2020
SE COLLEGE PUYALL
NEW STEM BUILDING
1601 39th AVE SE
Puyallup, WA 98374 0 STATE | PIERCE

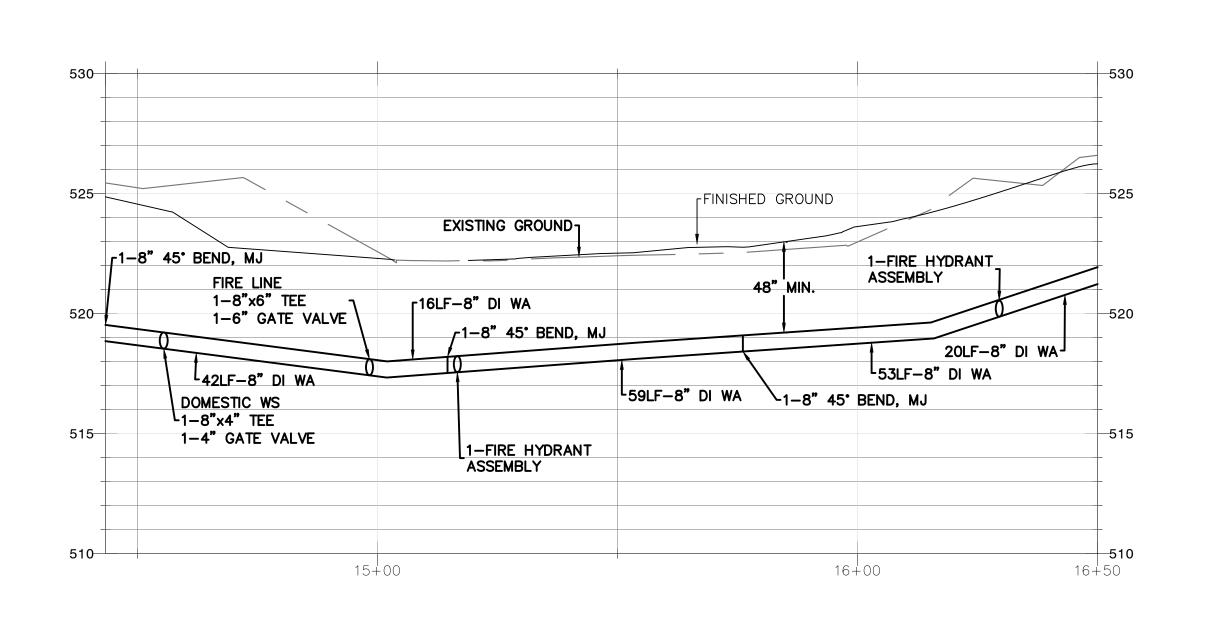
Date:	05/05/22
Job No.:	22135.00
Drawn By:	E.Rivera
Checked by:	K.Lauzen

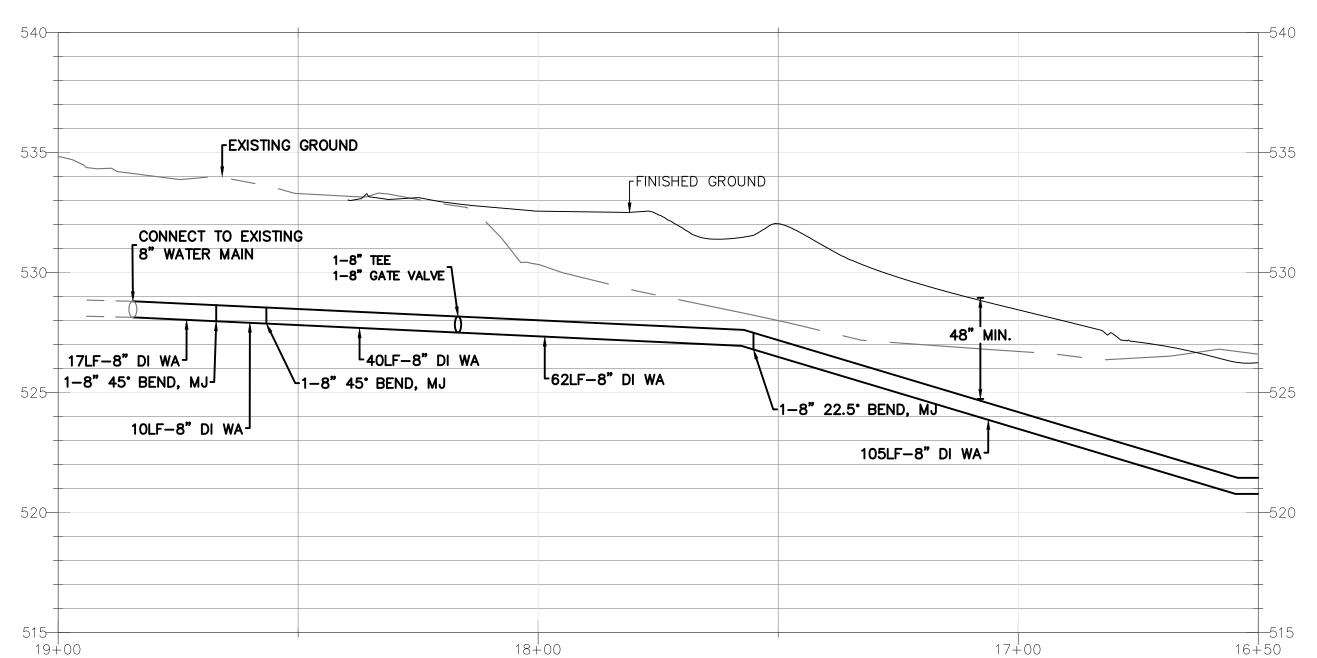
Revisions # Date Description

PROPOSED WATER MAIN PLAN & **PROFILE**

C6.5







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 CITY 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 THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S

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

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

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

11. 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.

12. 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.

13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE. 14. 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.

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

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.

2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SEWER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE. 3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION

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

4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION. 5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF

PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS. 6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.

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

8. MINIMUM 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.

9. 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 (WISHA).

10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM EPOXY LINING OR EQUIVALENT, 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 PII 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. 11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.

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

13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES WITH THE EXCEPTION OF SIDE SEWERS THAT PROVIDE SERVICE TO A SINGLE-FAMILY RESIDENCE. AT THE DISCRETION OF THE REVIEW ENGINEER. A LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED TO STAMP THE DESIGN TO ACCOUNT FOR DEPTH OR PROXIMITY TO FOUNDATION, STEEP SLOPES, OR OTHER FACTORS. 14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.

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

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

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

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

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

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

406.2 DEFLECTION TESTING

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

406.3 LEAKAGE TESTING

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

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

IF ANY PORTION OF THE SANITARY SYSTEM FAILS TO MEET THE TESTING REQUIREMENTS, THE CONTRACTOR SHALL DETERMINE, AT THEIR OWN EXPENSE, THE SOURCE OF LEAKAGE AND SHALL REPAIR OR REPLACE ALL DEFECTIVE MATERIALS OR WORKMANSHIP. THE COMPLETED PIPE INSTALLATION SHALL MEET THE MINIMUM TESTING REQUIREMENTS BEFORE BEING CONSIDERED ACCEPTABLE. 406.4 TELEVISION INSPECTION

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

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

UPSTREAM MANHOLE UNTIL WATER IS SEEN FLOWING IN THE LOWEST MANHOLE, VIDEO INSPECTION OF THE LINE SHALL BEGIN WHEN FLOW IN THE LOWEST MANHOLE HAS STOPPED. A 1-INCH SEWER BALL SHALL BE ATTACHED TO THE FRONT OF THE CAMERA TO PROVIDE A BASIS FOR ESTIMATING THE DEPTH OF THE PONDING WITHIN THE SEWER PIPE. TELEVISION INSPECTION ACCEPTANCE CRITERIA:

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

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

ANY SEWER PIPE THAT EXCEEDS EITHER OF THE ABOVE ACCEPTANCE CRITERIA WILL BE REJECTED AND REQUIRE REPAIR AND/OR REPLACEMENT BY THE CONTRACTOR. THE CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OF ANY DEFICIENCIES FOUND DURING TV INSPECTION. INCLUDING THE COSTS FOR ADDITIONAL

TV INSPECTION AND LEAKAGE TESTING NEEDED TO VERIFY THE DEFICIENCIES WERE CORRECTED. ALL COMPONENTS OF THE VIDEO AND RECORDING EQUIPMENT SHALL BE SUFFICIENT TO PROVIDE PICTURE QUALITY TO THE SATISFACTION OF THE CITY ENGINEER OR DESIGNEE. UPON COMPLETION OF THE VIDEO INSPECTION, THE DIGITAL VIDEO, OF COMMON FORMAT, AND WRITTEN INSPECTION REPORT SHALL BE SUBMITTED TO THE CITY FOR REVIEW. AT A MINIMUM, THE INSPECTION REPORT SHALL CONTAIN THE FOLLOWING INFORMATION:

SIZE, LENGTH, AND MATERIAL TYPE OF THE SEWER MAIN.

LOCATION OF ALL LATERAL CONNECTIONS.

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

STREET NAME AND/OR LOCATION OF SEWER MAIN

WATER SYSTEM NOTES:

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

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

COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.

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

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

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

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

8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY. 9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.

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

11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS-STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6-INCH TAP ON 8-INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS. 12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.

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

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

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

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

17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES. 18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.

19. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01. 20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY, OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT

PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03. 21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE. 22. WHEN HYDRAULIC FIRE FLOW MODELING IS REQUIRED FOR A PROJECT. THE CITY WILL ISSUE A PERMIT. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED 2030 WATER DEMAND, WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH AND A MAXIMUM VELOCITY OF 10

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

REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE. 24. SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN. THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE. 25. WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09) (NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)

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."

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

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

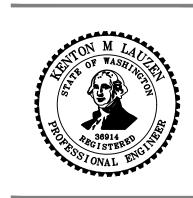
c. THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS. WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST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

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

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

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

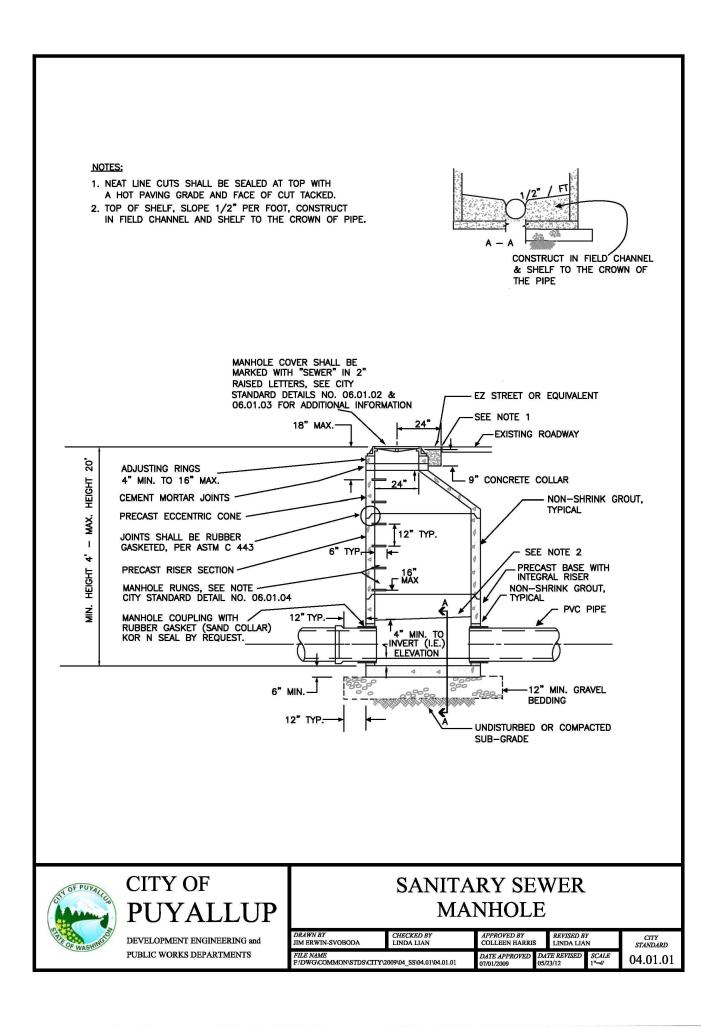


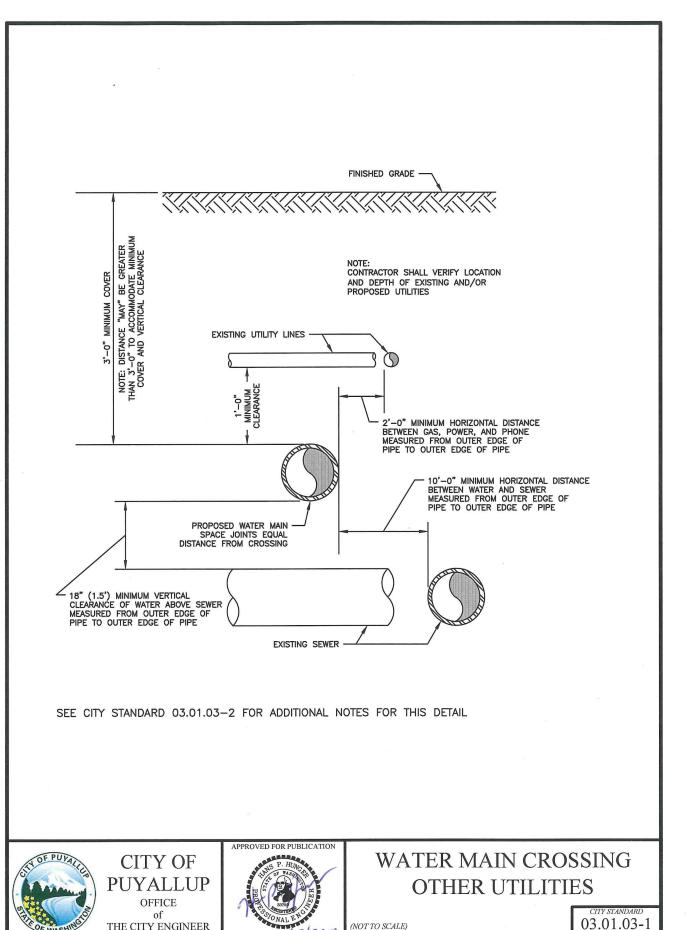


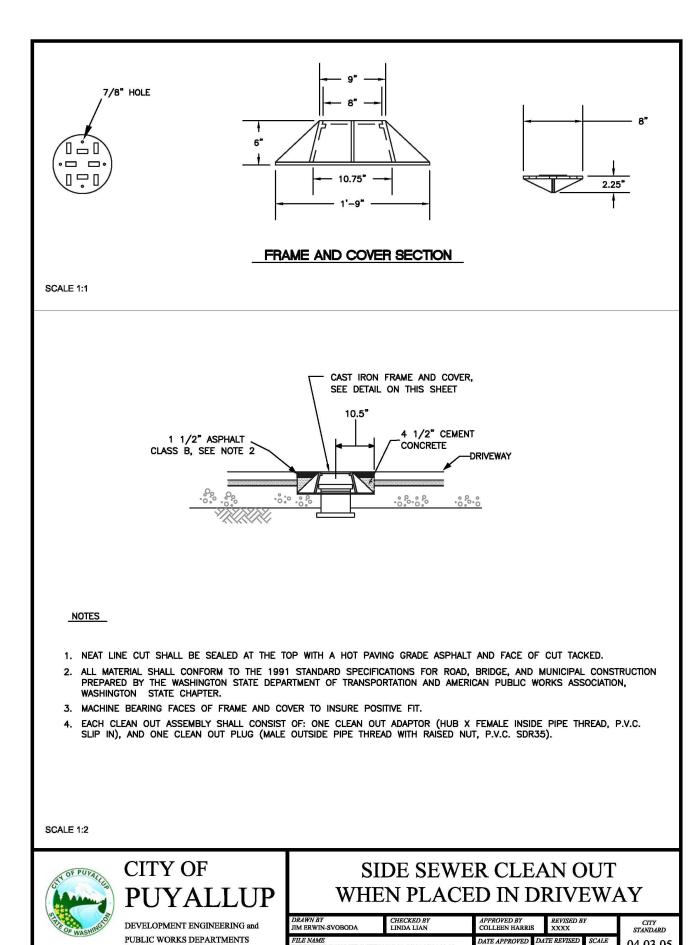
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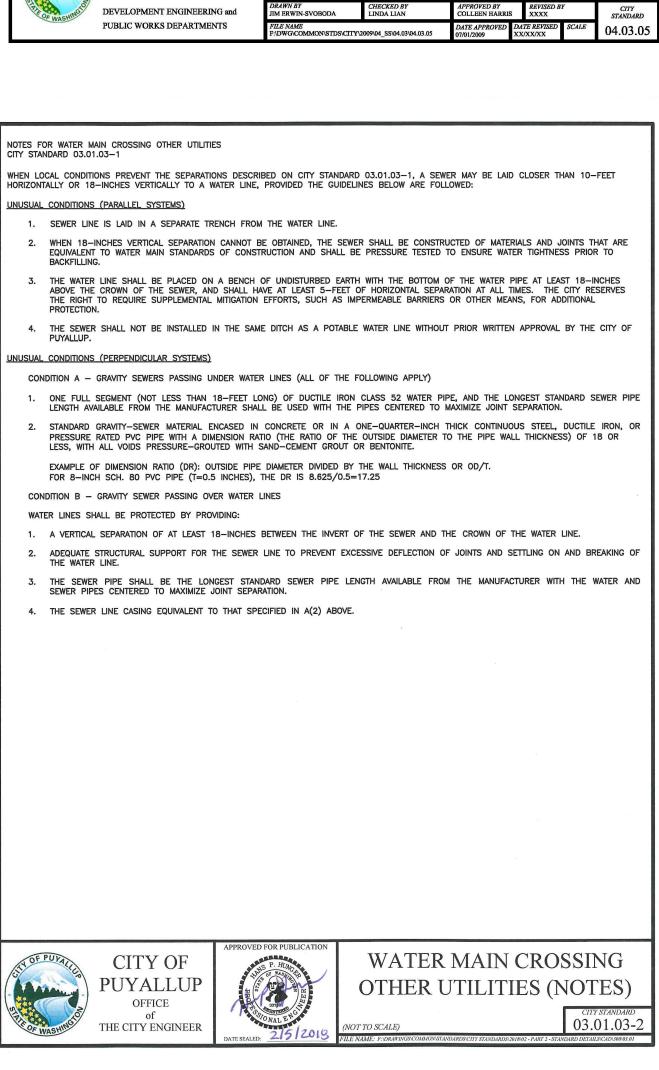
05/05/22 Job No.: 22135.00 Drawn By: E.Rivera Checked by: K.Lauzen Revisions # Date Description

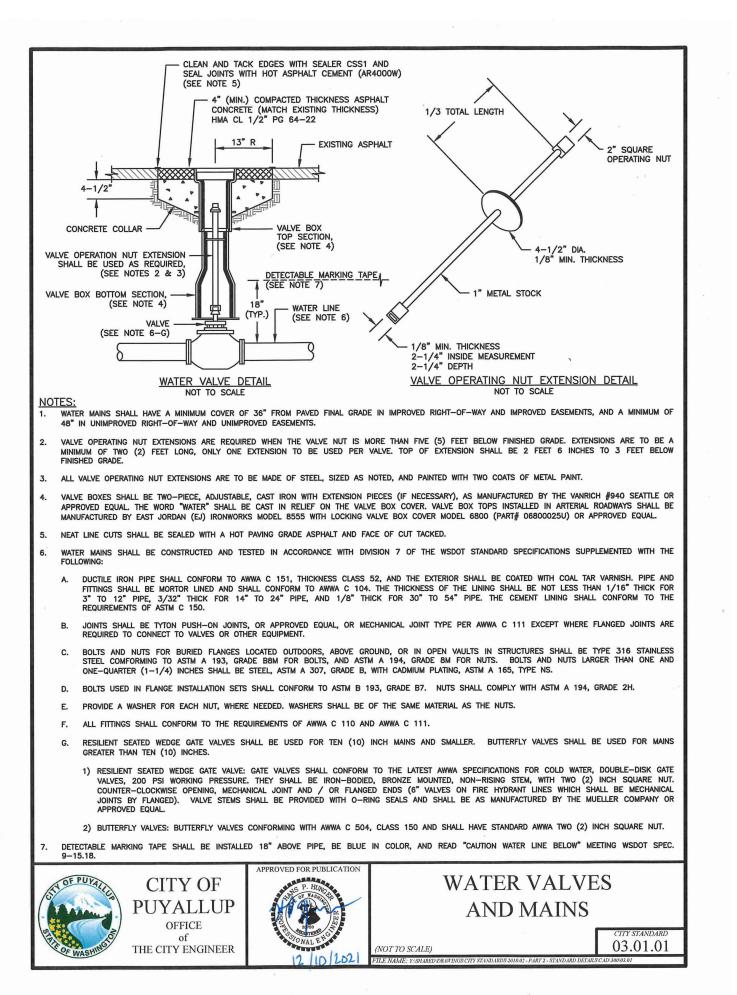
PROPOSED SANITARY SEWER & WATER NOTES

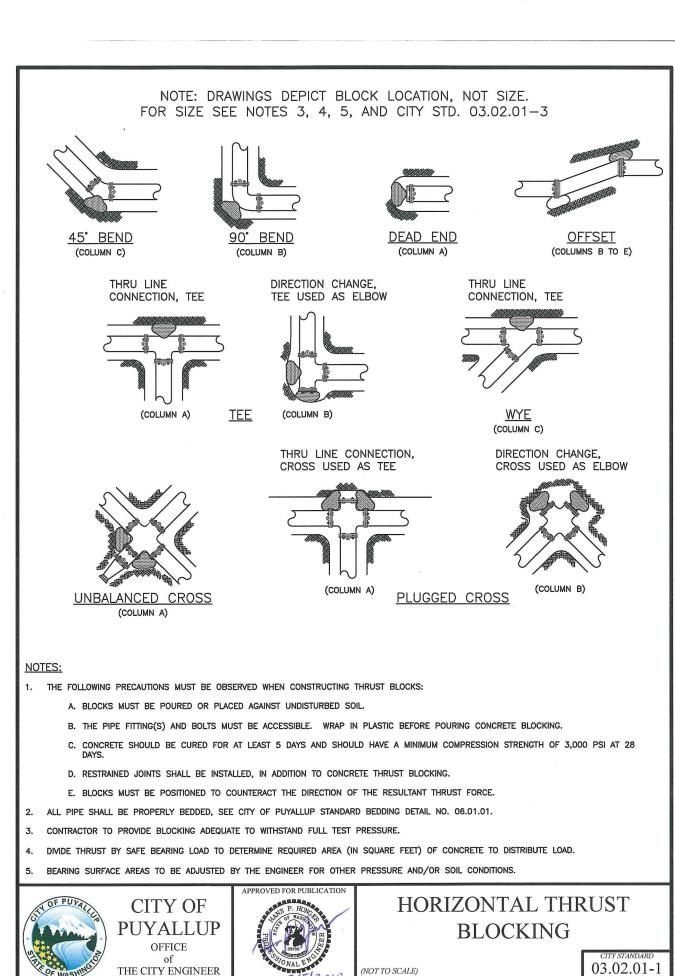


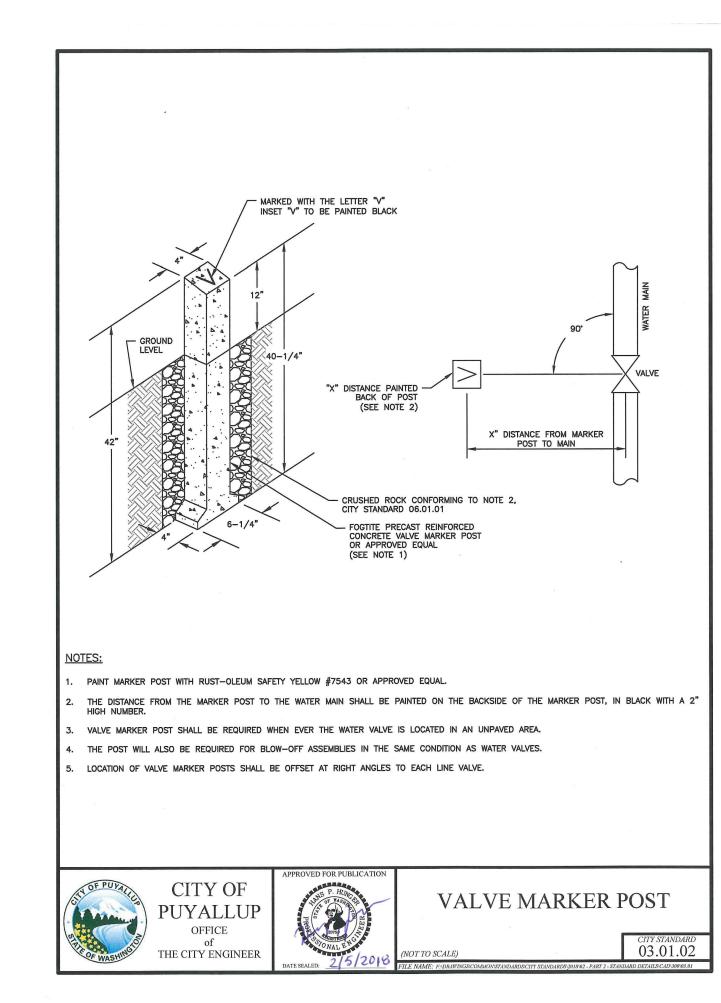


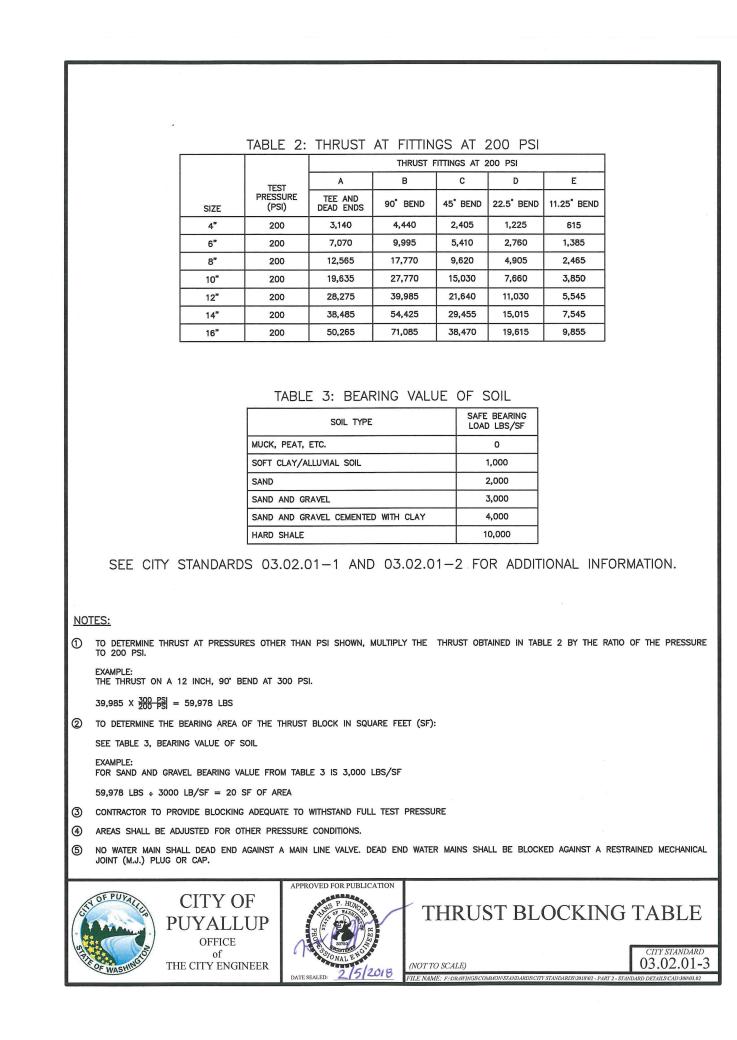




















STATE PROJECT NO.: 2020PIERCE COLLEGE PUYALLI NEW STEM BUILDING 1601 39th AVE SE Puyallup, WA 98374

Date:	05/05/22
Job No.:	22135.00
Drawn By:	E.Rivera
Checked by:	K.Lauzen

Description

Date

PROPOSED
SANITARY SEWER &
WATER DETAILS

C6.7





THE DDCVA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK-FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374. DDCVA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED. DDCVA IS ALLOWED TO BE LOCATED WITHIN A BUILDING AS APPROVED BY THE FIRE CODE OFFICIAL. WHEN THE DDCVA IS LOCATED WITHIN A BUILDING, THE FIRE DEPARTMENT CONNECTION (FDC) BALL DRIP SHALL DRAIN TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE. IN A VAULT INSTALLATION, IF VAULT CANNOT BE DRAINED TO DAYLIGHT, A 1/4 HP SUMP PUMP SHALL BE INSTALLED IN THE SUMP PIT OF THE VAULT. IT SHALL BE WIRED PER WASHINGTON STATE ELECTRICAL CODE, AND INSPECTED BY A STATE ELECTRICAL INSPECTOR. THE DISCHARGE PIPE SHALL BE CONNECTED TO THE NEAREST APPROVED ON—SITE STORM DRAINAGE STRUCTURE. DDCVA OUTSIDE STEM AND YOKE (OS&Y) GATE VALVES, AND THE POST INDICATOR VALVE (PIV), SHALL HAVE SUPERVISED TAMPER SWITCHES. ALL ELECTRICAL SHALL BE INSPECTED BY A WASHINGTON STATE ELECTRICAL INSPECTOR. IN A VAULT INSTALLATION, RUN TWO 3/4" SCHEDULE 80 P.V.C. CONDUITS TO THE VAULT. ONE WILL BE USED FOR A GFCI PROTECTED OUTLET, AND ONE WILL BE FOR LOW VOLTAGE COMING FROM THE FIRE ALARM PANEL. INSTALL AN APPLETON FSCA OR FDCA CAST DEVICE BOX OR APPROVED EQUAL ON THE VAULT WALL AT THE CONDUIT PENETRATION. IN A VAULT INSTALLATION, RUN LOW VOLTAGE WIRE INSIDE VAULT AND TO PIV THROUGH SEAL—TIGHT FLEX CONDUIT. CONDUIT SHALL BE SECURELY FASTENED PERPENDICULAR OR HORIZONTALLY TO THE WALLS OF THE VAULT. O. WATER METER SHALL BE A SENSUS SRII TRPL READING IN 1 CUBIC FEET. . PIPE SUPPORTS SHALL BE RUST-PROTECTED WITH ALUMINUM PAINT. 2. THE FDC SHALL BE LOCATED WITHIN 15 FEET OF A FIRE HYDRANT, BUT NOT LESS THAN 10 FEET. 3. THE FDC AND PIV SHALL BE A MINIMUM OF 50 FEET FROM A BUILDING, UNLESS APPROVED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL, BUT NEVER LESS THAN 5 FEET FROM BUILDING. A DDCVA INSTALLED MORE THAN 5 FEET ABOVE THE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST BE OSHA APPROVED AND MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.

CITY OF

OFFICE

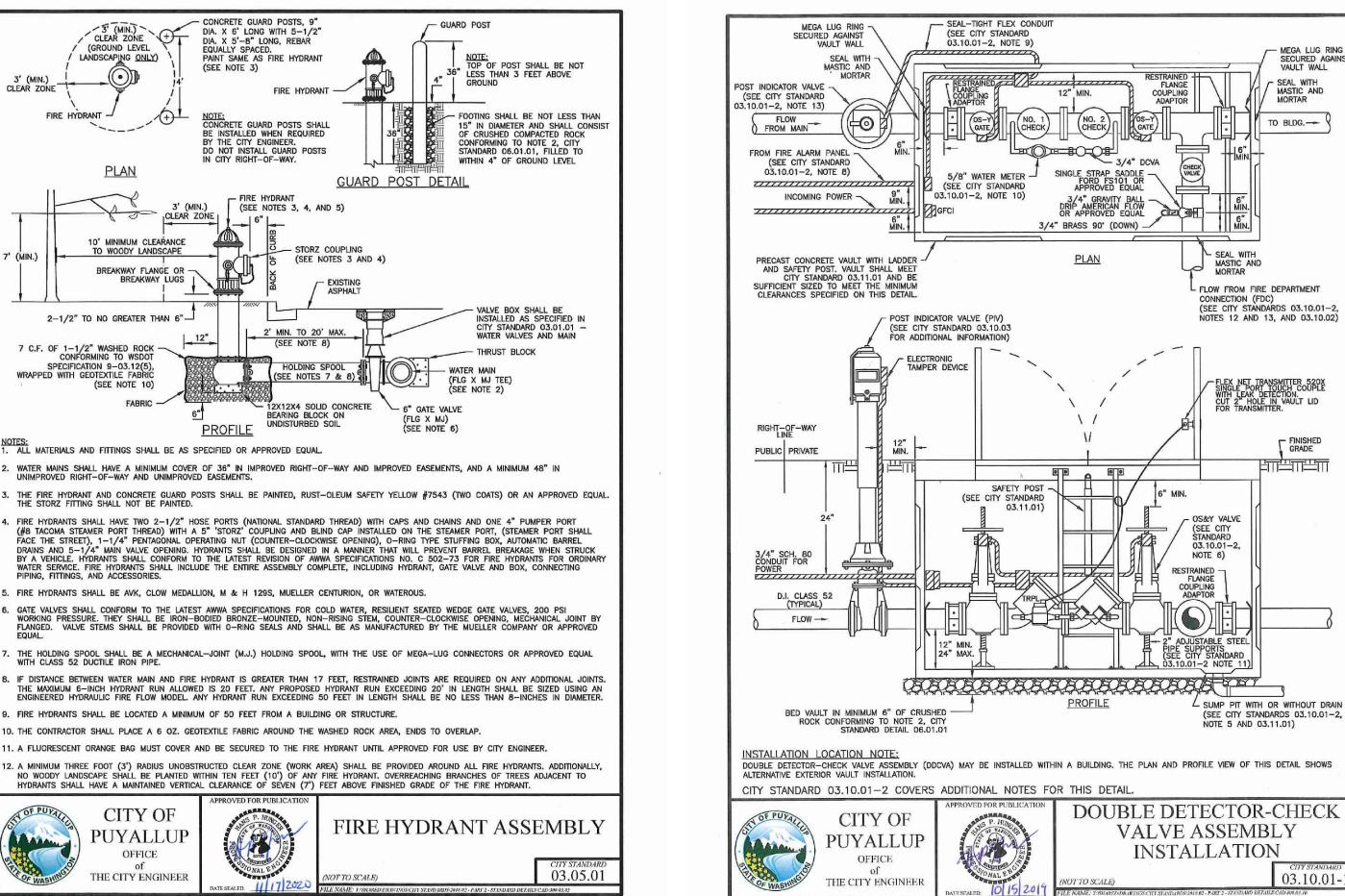
NOTES FOR: DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) INSTALLATION CITY STANDARD 03.10.01-1

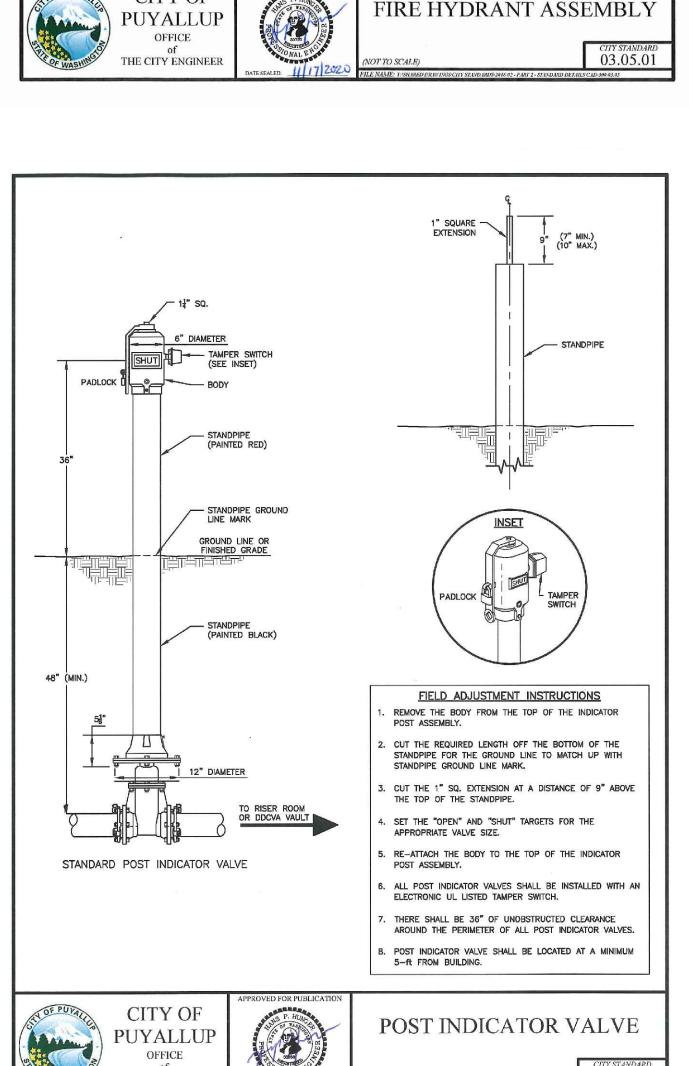
SECURED AGAIN VAULT WALL

03.10.01-

TO BLDG. --

BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION.





- METER BOX: ARMORCAST POLYMER CONCRETE BOX A6001640TX12 WITH POLYMER CONCRETE COVER A6001947TDW AND RPM DROP—IN LID A6000481DT—H7.

- 1-1/2" OR 2" METER: SENSUS OMNI R2 READING IN 1 CUBIC FEET

WITH LEAK DETECTION

(SEE NOTE 8)

APPROVED EQUAL

- USE 316 GRADE STAINLESS

4-16"X8"X4" SOLID CONCRETE BLOCKS, TYPICAL TWO ON EACH SIDE OF BOX

NORMALLY THE WATER METER BOX SHOULD BE LOCATED IN THE PLANTING STRIP. IF SIDEWALK IS AGAINST THE CURB, PLACE METER BOX DIRECTLY BEHIND THE SIDEWALK. THE WATER METER BOX SHALL NOT BE LOCATED IN HARD SURFACES. WHEN UNAVOIDABLE, EXCEPTIONS CAN BE MADE AT END OF CUL—DE—SACS OR PAN HANDLED LOTS.

WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN

THE WATER SERVICE LINE SHALL BE BEDDED IN WASHED SAND WITH 36" OF COVER BELOW FINISHED GRADE WITHIN THE RIGHT-OF-WAY. THE WATER SERVICE LINE SHALL BE ONE CONTINUOUS PIECE WITH NO SPLICES.

ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZE) MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM.

FOR A 1-1/2" WATER SERVICE, ALL MATERIAL SHALL BE 2" FROM THE WATER MAIN TO THE COPPERSETTER. REDUCE FROM 2" TO 1-1/2" IMMEDIATELY BEFORE COPPERSETTER.

THE STAINLESS STEEL METER FLANGE BOLTS SHALL BE 5/8" DIAMETER FOR THE 1-1/2" METER, AND 3/4" DIAMETER FOR THE 2" METER.

PROVIDE A 6" CIRCULAR VALVE BOX WITH COVER (APPLIED ENGINEERING PRODUCT MODEL 708 WITH GREEN LID OR AN APPROVED EQUAL) OVER BY-PASS VALVE.

(SEE INDENTIFICATION PLATECAST

- PAINT THE BUILDING NUMBER VERTICALLY ON THE STREET OR PAVING SIDE OF THE FDC RISER, IN BLACK WITH 2" HIGH NUMBERS.

- SIZE TO BE DETERMINED BY LEVEL III CERTIFIED DESIGNER OR LICENSED PROFESSIONAL CIVIL ENGINEER. GALVANIZED PIPE ABOVE GROUND SHALL BE CLEANED,

AND PRIMED WITH PARKER PAINT'S QD METAL PRIME 9175 OR APPROVED EQUAL, PAINT WITH PARKER PAINT'S MARATHON 1050 SAFETY RED OR APPROVED EQUAL, EXCEPT FOR STORZ FITTING.

F BALL DRIP IS NEEDED, INSTALL 1-1/2"
WASHED ROCK CONFORMING TO WSDOT
SPECIFICATION 9-03.12(5) TO AID DRAINAGE

---- PIPE FROM DDCVA

IDENTIFICATION PLATECAST DETAIL NOTES:

1. IDENTIFICATION PLATECAST WILL BE BRASS

2. IDENTIFICATION PLATECAST WILL BE 1/4" THICK

3. LETTERS WILL BE ONE INCH HIGH AND RAISED

FIRE DEPARTMENT

CONNECTION (FDC)

03.10.02

4. USE TWO (2) ZINC U-BOLTS TO AFFIX TO PIPE

(SEE CITY STANDARDS 3.10.01-1 AND 3.10.01-2)

INSTALL A 3/4" GRAVITY BALL DRIP
AMERICAN FLOW OR APPROVED EQUAL AND
A 3/4" BRASS 90' ELL BELOW THE FREEZE
LINE, MINIMUM 12" OF COVER, IF DDCVA IS
IN THE BUILDING AND/OR ABOVE THE FDC

DETAIL BELOW)

D.I. FL X MJ 90' BEND

— RESTRAINED JOINT

5 FEET FROM BUILDING.

FIRE DEPARTMENT CONNECTION (FDC) NOTES:

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

THE FDC SHALL BE A MINIMUM OF 50 FEET FROM THE BUILDING, UNLESS APPROVED BY THE FIRE CODE OFFICIAL, BUT NEVER LESS THAN

COPPERSETTER: FORD 1-1/2" VH76-18B-11-66 OR 2 VH77-18B-11-77 OR

(SEE NOTE 4)

STEEL BOLTS AND TEFLON NUTS ON METER FLANGE CONNECTIONS

VALVE BOX SHALL BE INSTALLED AS SPECIFIED IN CITY STANDARD 03.01.01 - WATER VALVES AND MAIN

WEDGE GATE VALVE WITH 2" SQUARE OPERATING NUT

(VARIOUS SIZES

03.03.02

- 2" RESILIENT SEATED

2"X4" BRASS

1-1/2" AND 2"

VATER SERVICE CONNECTION

FINISHED GRAD

(SEE NOTE 9)

2"X4" BRASS

(SEE NOTE 7)

-1/2" SERVICE INSTALL

FORD PACK JOINT COUPLING J C86-77 OR APPROVED EQUAL (SEE NOTE 4)

UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.

PUYALLUI

OFFICE

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

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

THRUST BLOCK PER CITY -STANDARD 03.02.01-2

SPRINKLER

IDENTIFICATION PLATECAST DETAIL

PUYALLUP

OFFICE

THE CITY ENGINEER

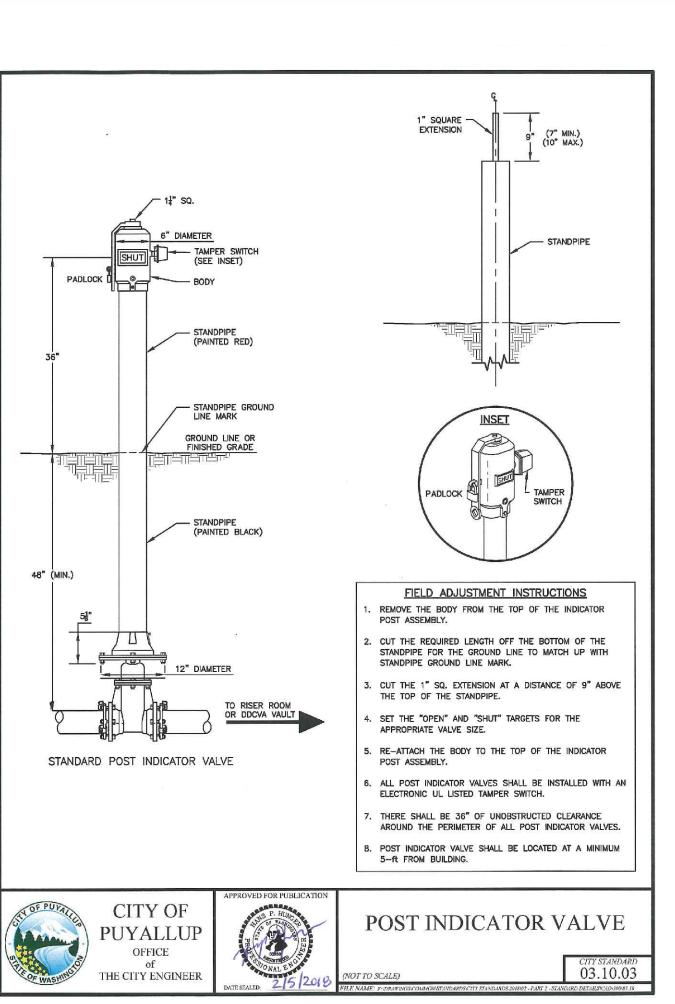
2" POLY PIPE WATER SERVICE LINE -

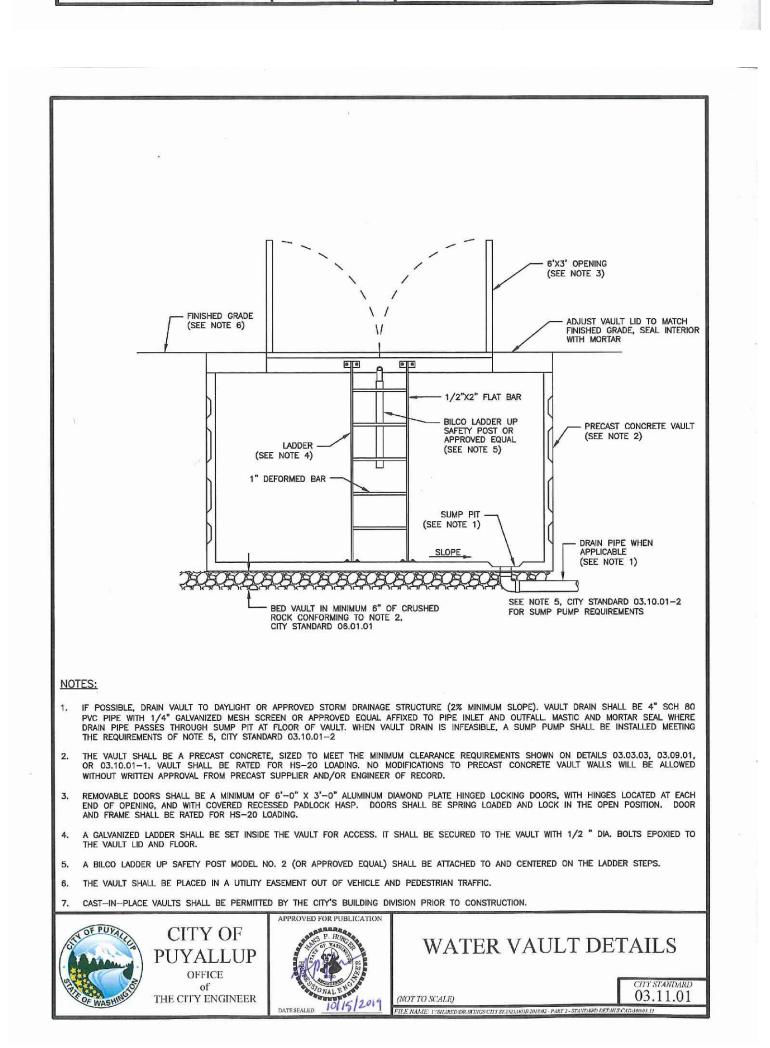
(SEE NOTES 5 AND 6)

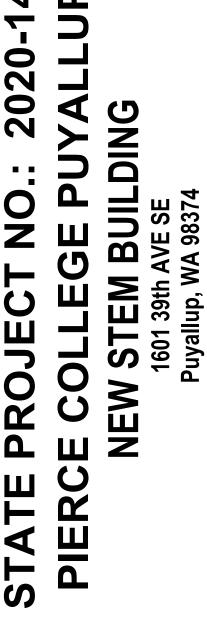
ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.

2"X1-1/2" BRASS BUSHING ON BACK SIDE OF BRASS 45' BEND

#12 LOCATE WIRE







05/05/22
22135.00
E.Rivera
K.Lauzen

Date Description

PROPOSED

SANITARY SEWER &

WATER DETAILS

C6.8

SITE PERMIT SET

SITE PLAN -OVERALL

L1.00



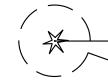
Date Description

TREE **PROTECTION** PLAN

L1.01

EXISTING TREE LEGEND

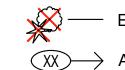
EXISTING DECIDUOUS TREE TO BE PROTECTED IN PLACE CRITICAL ROOT ZONE (RADIUS OF ONE FOOT PER INCH TREE DIAMETER, MEASURED AT DSH)



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



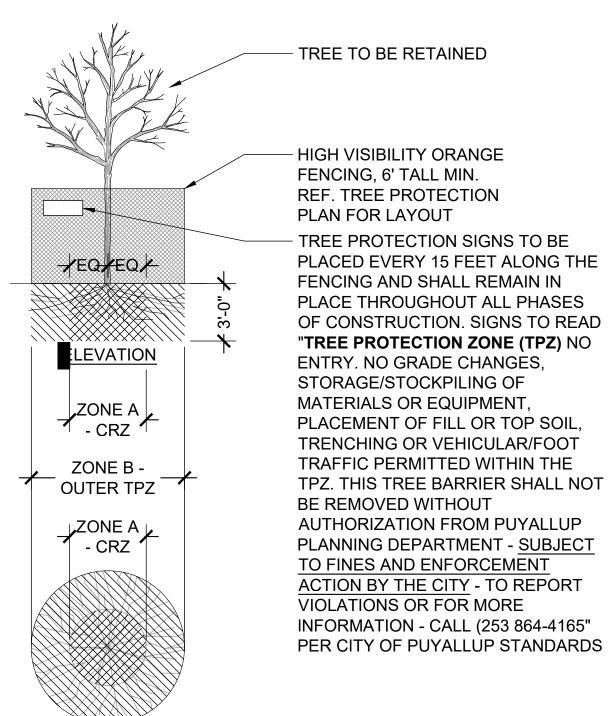
EXISTING TREE TO BE DEMOLISHED

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

TREE PROTECTION NOTES:

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

- 1. INSTALL 3" DEPTH OF COARSE WOOD CHIPS OVER ENTIRE TREE PROTECTION ZONE (TPZ) PRIOR TO INSTALLING PERIMETER PROTECTION FENCING. WATER GROUND DEEPLY BEFORE PLACING AND KEEP MULCH MOIST. DO NOT PILE MULCH DIRECTLY AGAINST
- 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
- 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

<u>PLAN</u>

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

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

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

ZONE A (CRITICAL ROOT ZONE - CRZ)

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

ZONE B (OUTER TPZ)

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



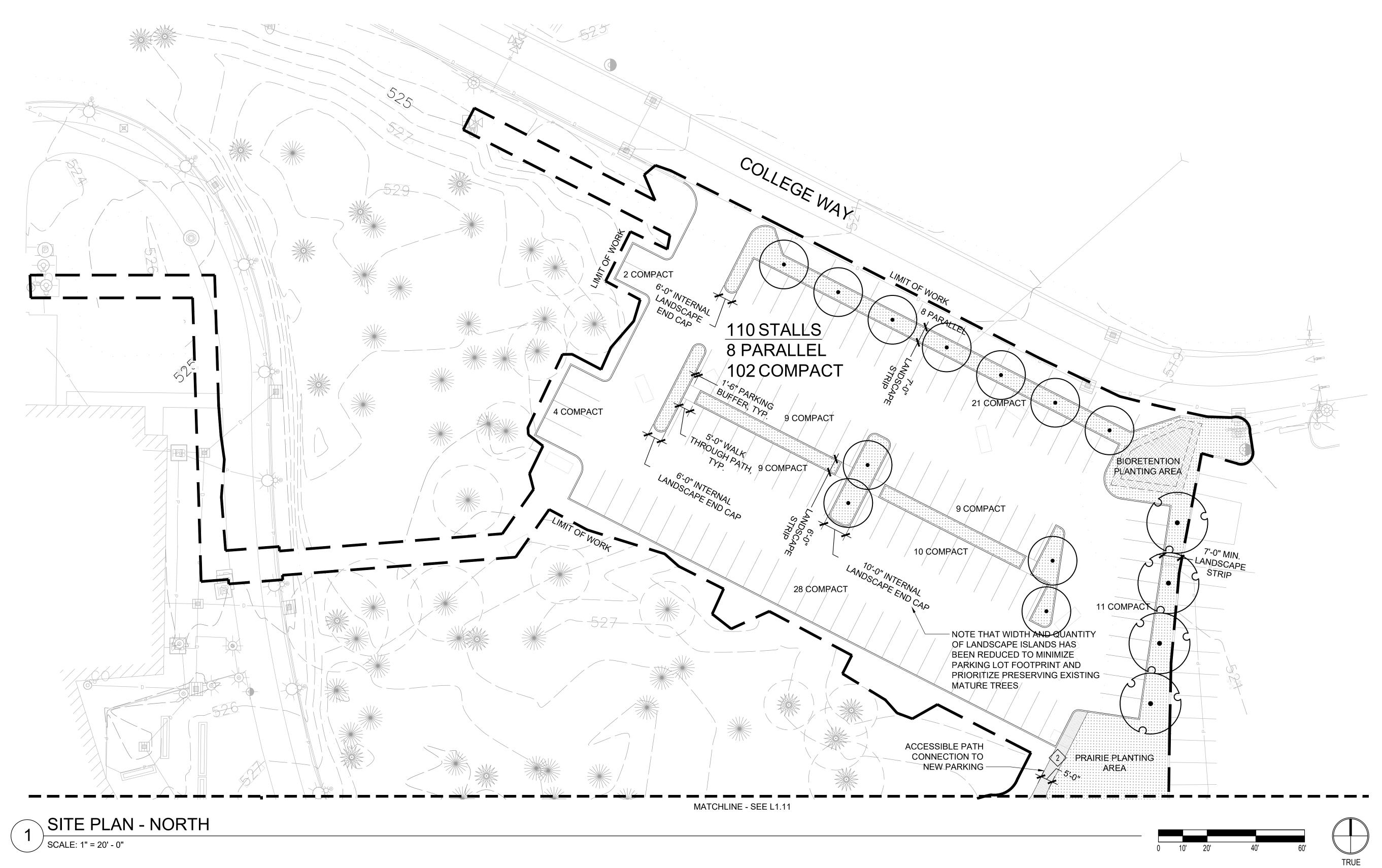
TREE PROTECTION PLAN

SCALE: 1" = 40' - 0"



SITE PLAN -NORTH

L1.10



PLANTING LEGEND

SYMBOL	DESCRIPTION
+ + + + + + + + + + + + + + + + + + +	PLANTING AREA
	BIORETENTION PLANTING AREA

MATERIALS LEGEND

MATERIALS LEGEND				
KEY	SYMBOL	DESCRIPTION		
$\langle 1 \rangle$	A	CONCRETE PAVING - SANDBLAST FINISH		
2>		CRUSHED ROCK PAVING		
3>	\(\psi \)	GRASS PAVE - REPLACE AND MATCH EXISTING		
4	44 <u>A</u> A	CONCRETE PAVING - EXPOSED AGGREGATE FINISH		
5		VEHICULAR CONCRETE PAVING - SANDBLAST FINISH		
6		FLUSH CURB		
7	ΑΔ Δ	CONCRETE PAVING - BROOM FINISH		
8		VEHICULAR CONCRETE PAVING - EXPOSED AGGREGATE FINISH		

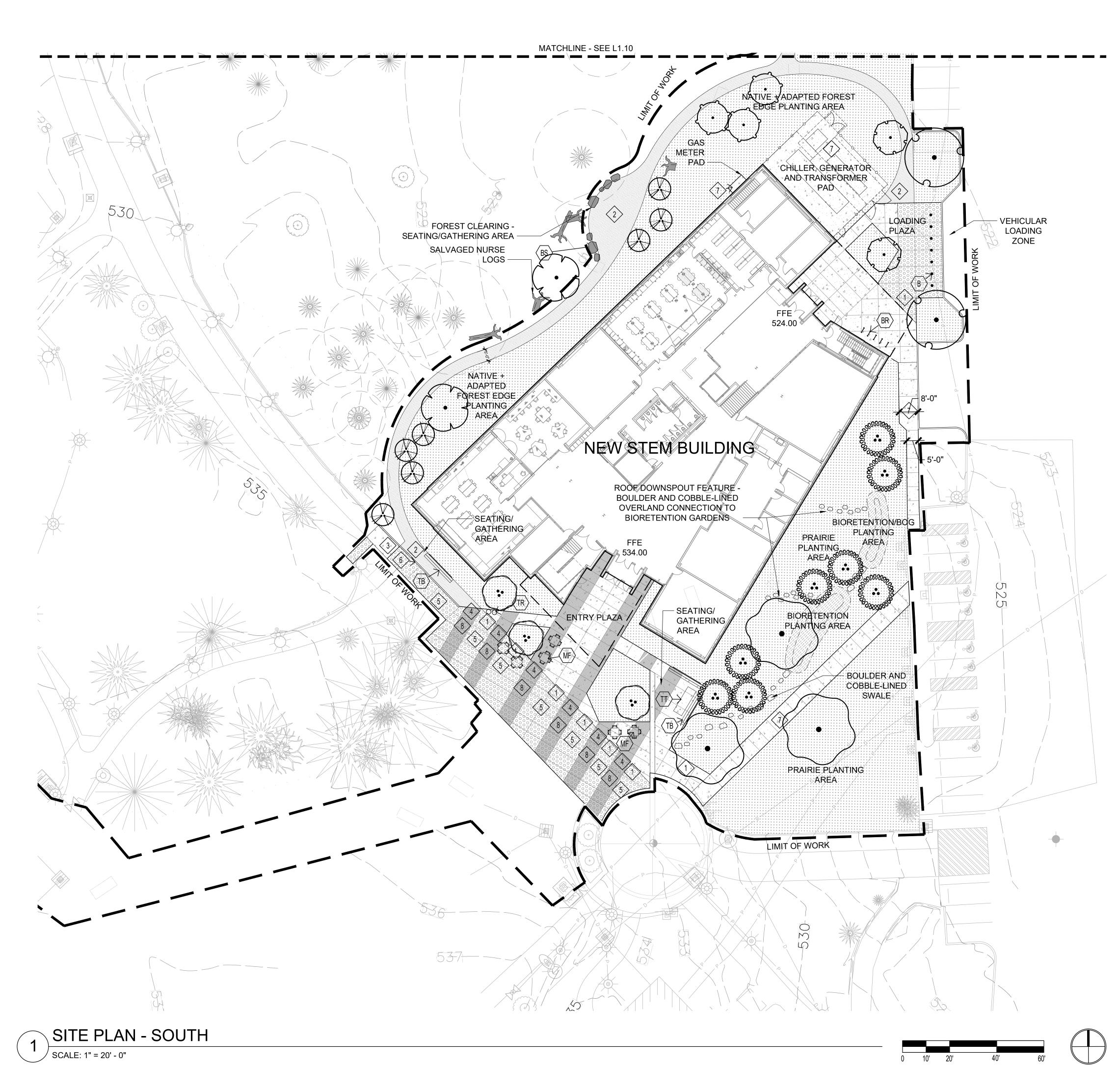
FURNISHING LEGEND

KEY	SYMBOL	DESCRIPTION
⟨TB⟩>		TIMBER BENCH - COLUMBIA CASCADE TIMBERFORM
$\langle T \rangle \Rightarrow$		LOW WORK TABLE - STEEL AND WOOD
$\langle MF \rangle \rightarrow$		MOVEABLE CAFE TABLES AND CHAIRS - FORMS + SURFACES 'FACTOR'
$\langle B \rangle \!\!\!>$	•	BOLLARD - TOURNESOL 'B-2', REMOVABLE MOUNTING
(BS)>>		BOULDER SEAT
⟨BR⟩>	1	BICYCLE RACK - SPORT WORKS 'TOFINO'
⟨TR⟩>	0	TRASH RECEPTACLES - LANDSCAPE FORMS 'CHASE PARK'

Date Description

SITE PLAN -SOUTH

L1.11



PLANTING LEGEND

SYMBOL	DESCRIPTION
+ + + + + + + + + + + + + + + + + + +	PLANTING AREA
	BIORETENTION PLANTING AREA

MATERIALS LEGEND

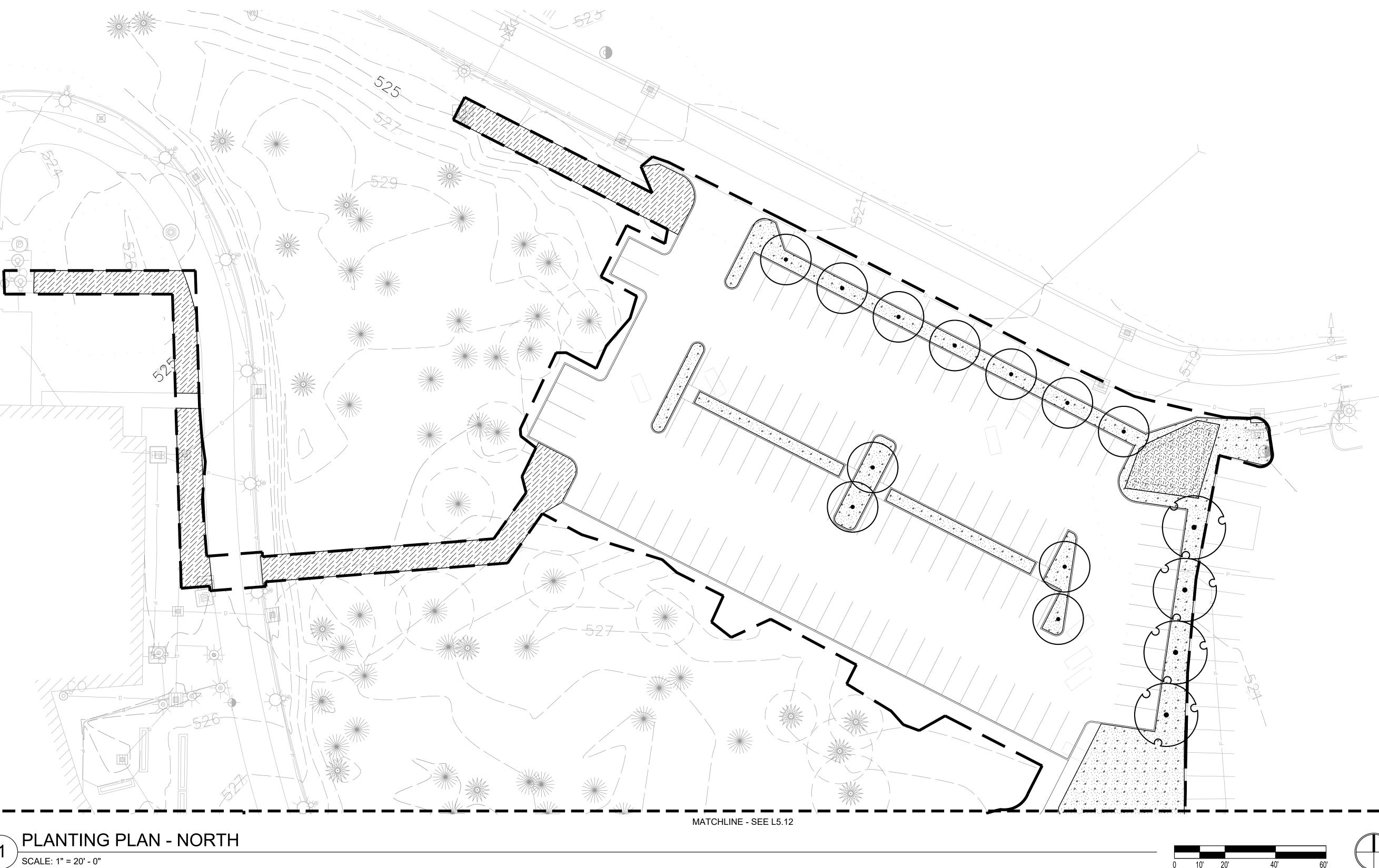
KEY	SYMBOL	DESCRIPTION
	~ΔΔ 	CONCRETE PAVING - SANDBLAST FINISH
2		CRUSHED ROCK PAVING
3	\(\psi \)	GRASS PAVE - REPLACE AND MATCH EXISTING
4	44.) A	CONCRETE PAVING - EXPOSED AGGREGATE FINISH
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FURNISHING LEGEND

KEY	SYMBOL	DESCRIPTION
(TB)		TIMBER BENCH - COLUMBIA CASCADE TIMBERFORM
(TT);	→	LOW WORK TABLE - STEEL AND WOOD
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(B)	•	BOLLARD - TOURNESOL 'B-2', REMOVABLE MOUNTING
(BS)		BOULDER SEAT
(BR)	<i>*</i>	BICYCLE RACK - SPORT WORKS 'TOFINO'
(TR)		TRASH RECEPTACLES - LANDSCAPE FORMS 'CHASE PARK'

PLANTING PLAN -NORTH

L5.11



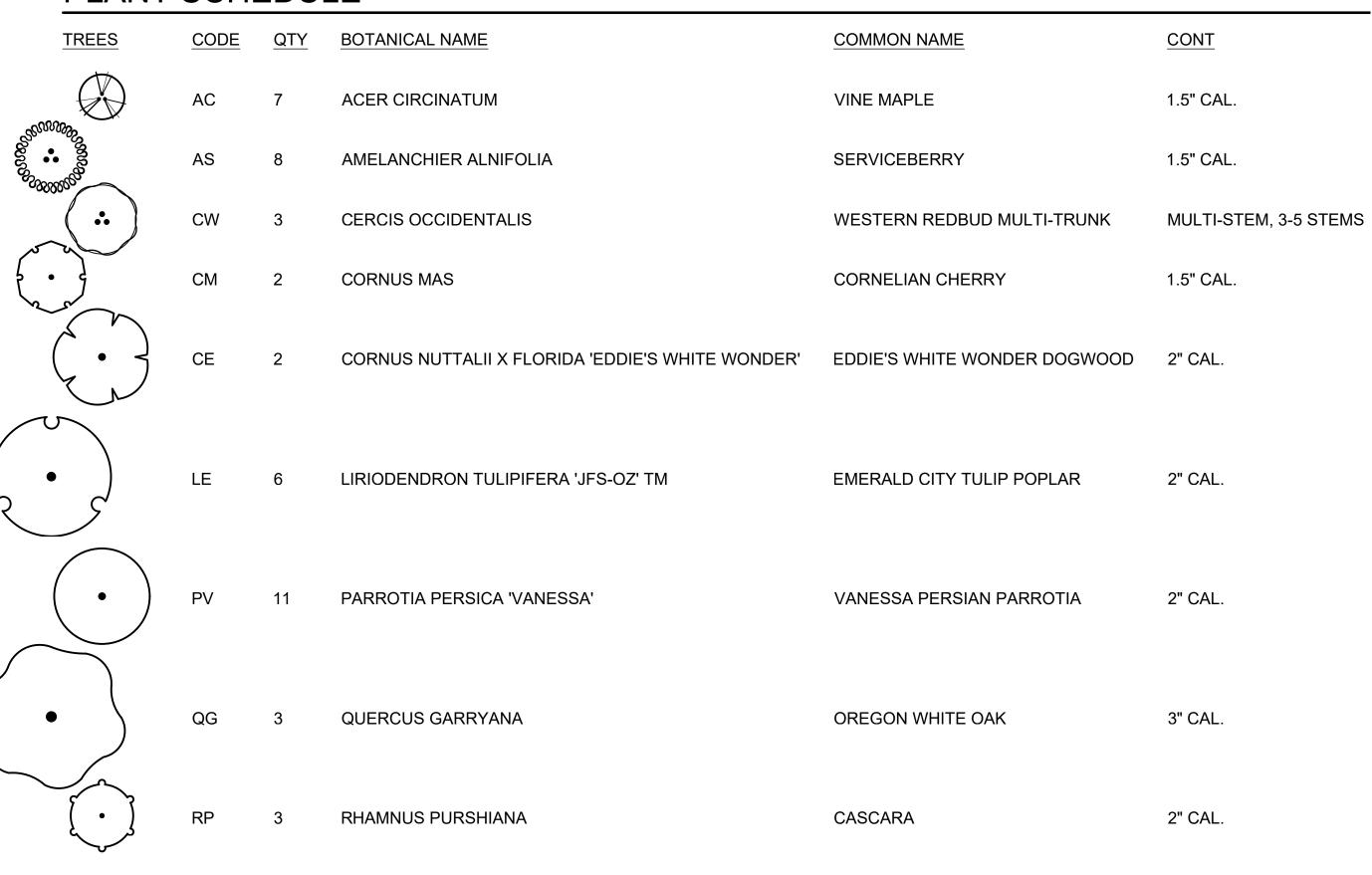
SEE L5.13 FOR PLANTING SCHEDULE

PLANTING PLAN -SOUTH

L5.12



PLANT SCHEDULE



PLANT SCHEDULE

NOTE: FINAL PLANT SELECTIONS WILL INCLUDE NATIVE, ADAPTED AND DROUGHT TOLERANT SPECIES SELECTED AND LOCATED FOR SITE SPECIFIC CONDITIONS. THE FINAL PLANTING PLAN WILL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING PLANT SPECIES

	FOREST EDGE PLANTING ADIANTUM PEDATUM / NORTHERN MAIDENHAIR FERN ASARUM CAUDATUM / WILD GINGER BLECHNUM SPICANT / DEER FERN IRIS TENAX / OREGON IRIS MAHONIA NERVOSA / OREGON GRAPE OXALIS OREGANA / REDWOOD SORREL POLYSTICHUM MUNITUM / WESTERN SWORD FERN RIBES SANGUINEUM / RED FLOWERING CURRANT SPIRAEA BETULIFOLIA / BIRCHLEAF SPIREA TRILLIUM OVATUM / COAST TRILLIUM VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	7,513 SF	SIZE #1 #1 #1 #1 #2 #1 #2 #5 #2 #1	% FILL + SPACING 10% @ 12" oc 5% @ 12" oc 5% @ 12" oc 5% @ 24" oc 15% @ 36" oc 10% @ 12" oc 15% @ 36" oc 10% @ 72" oc 10% @ 36" oc 5% @ 12" oc 10% @ 48" oc
6 6 6	PRAIRIE PLANTING CUSTOM SEED MIX, 15 LBS PER ACRE CAMASSIA QUAMASH / SMALL CAMAS	19,189 SF	<u>SIZE</u> SEED	<u>% FILL</u> 3%

PRAIRIE PLANTING	19,189 SF	SIZE	<u>% FILL</u>
CUSTOM SEED MIX, 15 LBS PER ACRE			
CAMASSIA QUAMASH / SMALL CAMAS		SEED	3%
CAREX PANSA / SANDDUNE SEDGE		SEED	50%
CASTILLEJA LEVISECTA / GOLDEN PAINTBRUSH		SEED	3%
CASTILLEJA MINIATA / GREAT RED PAINTBRUSH		SEED	3%
ERIOPHYLLUM LANATUM / WOOLLY SUNFLOWER		SEED	4%
FESTUCA IDAHOENSIS / IDAHO FESCUE		SEED	15%
KOELERIA MACRANTHA / PRAIRIE JUNEGRASS		SEED	15%
PENSTEMON RYDBERGII / RYDBERG'S PENSTEMON		SEED	4%
SIDALCEA MALVIFLORA / CHECKERBLOOM		SEED	3%

BIORETENTION PLANTING	1,498 SF	SIZE	% FILL + SPACING
CAREX PACHYSTACHYA / CHAMISSO SEDGE		4 1	20% @ 24" oc
CAREX STIPATA / AWL-FRUITED SEDGE		#1	20% @ 12" oc
DARLINGTONIA CALIFORNICA / CALIFORNIA PITCHER PLANT		#1	5% @ 12" oc
DARMERA PELTATA / UMBRELLA PLANT		#2	5% @ 48" oc
IRIS DOUGLASIANA / DOUGLAS IRIS		#1	10% @ 24" oc
JUNCUS PATENS / CALIFORNIA GRAY RUSH		#1	20% @ 36" oc
MYRICA GALE / SWEETGALE		#5	10% @ 48" oc
PENSTEMON RYDBERGII / RYDBERG'S PENSTEMON		#1	10% @ 36" oc

UTILITY CORRIDOR RESTORATION PLANTING 9,819 SF ALL AREAS AFFECTED BY UTILITY ROUTING TO BE RESTORED.

ASSUME 1:1 TREE REPLACEMENT FOR TREES REMOVED IN UTILITY CORRIDOR.

% FILL + SPACING 1.5" CAL. ACER CIRCINATUM / VINE MAPLE POLYSTICHUM MUNITUM / WESTERN SWORD FERN PSEUDOTSUGA MENZIESII / DOUGLAS FIR 20" oc RHODODENDRON OCCIDENTALE / WESTERN AZALEA 72" oc RIBES SANGUINEUM / RED FLOWERING CURRANT 72" oc VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY 48" oc

7,127 SF UTILITY CORRIDOR LAWN RESTORATION ALL AREAS AFFECTED BY UTILITY ROUTING TO BE RESTORED.

HYDROSEED LAWN IN EXISTING LAWN AREAS.

STATE

Checked by: Revisions

Date Description

PLANTING PLAN -WEST, PLANTING SCHEDULE

L5.13

SITE PERMIT SET

TRUE NORTH