

ARCHITECT

McGRANAHAN ARCHITECTS
2111 PACIFIC AVENUE, SUITE 100
TACOMA, WASHINGTON 98402
PH: 253.383.3084
CONTACT: ANDY HARTUNG, AIA
EMAIL: andy.hartung@mcgranahan.com

CIVIL ENGINEER:

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

SURVEYOR

AHBL, INC.
2215 NORTH 30TH STREET, SUITE 300
TACOMA, WASHINGTON 98403
PH: 253.383.2422
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CONTACT: DAVID FOLLANSBEE, P.L.S.
ASSOCIATE PRINCIPAL
EMAIL: dfollansbee@ahbl.com

LANDSCAPE

AHBL, INC.
2215 NORTH 30TH STREET, SUITE 300
TACOMA, WASHINGTON 98403
PH: 253.383.2422
FAX: 253.383.2572
CONTACT: SARAH SINGLETON SCHROEDEL, PLA
PROJECT MANAGER
EMAIL: ssingleton@ahbl.com

CLIENT

PIERCE COLLEGE PUYALLUP
1601 39TH AVENUE SE
PUYALLUP, WA 98374
PH: (206) 255-9113
CONTACT: CHARLENE WILSON

STATE OF WASHINGTON DEPARTMENT OF ENTERPRISE SERVICES
1500 JEFFERSON STRET
OLYMPIA, WA 98501
PH: (360) 790-0937
CONTACT: TONY IFIE

FILL SPECIFICATION

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

AUTOCAD FILE

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

TRENCH NOTE

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

SITE INFORMATION

PARCEL
0419034018
ZONE: PUBLIC FACILITIES (PF)
LOT SIZE: 122.3 ACRES
NEW IMPERVIOUS AREA = 0.88 ACRES

UTILITIES

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

CONSTRUCTION SEQUENCE

- HOLD A PRE-CONSTRUCTION MEETING WITH THE CITY OF PUYALLUP, ENGINEER, AND OWNER, AND OBTAIN REQUIRED PERMITS.
- ESTABLISH CLEARING AND GRADING LIMITS.
- MARK PAVEMENT DEMOLITION LIMITS. LIMIT SHALL BE INSPECTED BY THE OWNER AND ENGINEER PRIOR TO DEMOLITION.
- CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE.
- PROVIDE INLET SEDIMENT PROTECTION FOR ALL EXISTING STRUCTURES WITHIN CLEARING LIMITS AND FIRST CATCH BASINS IMMEDIATELY DOWNSTREAM OF WORK LIMITS PER DETAIL. (TYP.)
- CONSTRUCT PERIMETER DITCHES, SILT FENCES, AND OTHER EROSION DEVICES AS SHOWN. PROVIDE AND MAINTAIN EROSION CONTROL MEASURES AS REQUIRED.
- CONSTRUCT PROTECTION DEVICES FOR CRITICAL AREAS AND SIGNIFICANT TREES PROPOSED FOR RETENTION.
- SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
- CONTACT WILLIAMS GAS COMPANY PRIOR TO COMMENCING ANY WORK WITHIN THE WILLIAMS GAS EASEMENT.
- CONSTRUCT PIPES WITHIN THE WILLIAMS GAS EASEMENT PRIOR TO ORDERING MATERIALS OR STARTING AND CONSTRUCTION WITHIN LOT A.
- PROVIDE NEW PAVING BASE.
- CONSTRUCT STORM DRAINAGE RETENTION/DETENTION (CONTROL AND STORAGE) FACILITIES. PROVIDE EMERGENCY OVERFLOW AS APPLICABLE.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, EROSION AND SEDIMENT CONTROL IS ALWAYS IN PLACE AND IN ACCORDANCE WITH THE CITY REQUIREMENTS.
- FINAL GRADE SITE, CONSTRUCT FINAL SURFACING TREATMENTS, ENSURE SURFACE WATER IS POSITIVELY DIRECTED TOWARDS EXISTING STORMWATER CONTROL FACILITIES.
- REMOVE THE REMAINING TEMPORARY EROSION CONTROL ITEMS ONCE SITE HAS BEEN STABILIZED AND UPON APPROVAL.
- PROVIDE AS-BUILT DRAWINGS FOR STORMWATER SYSTEM INCLUDING CATCH BASINS, PIPES, AND DETENTION SYSTEM.

APPROVED

BY: *Andy Hartung*
CITY OF PUYALLUP
ENGINEERING SERVICES

APPROVAL DATE: 04/08/2024

DATE: 04/08/2024

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

UTILITY NOTE

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

SHEET INDEX

SHEET NUMBER	SHEET TITLE
C.01	COVER SHEET
C1.1	TESC AND DEMOLITION PLAN AREA B
C1.2	TESC AND DEMOLITION PLAN AREA A
C1.3	TESC NOTES AND DETAILS
C1.4	TESC NOTES AND DETAILS
C1.5	GENERAL NOTES AND DETAILS
C2.1	GRADING AND STORM DRAINAGE PLAN AREA A
C2.2	GRADING AND STORM DRAINAGE PLAN AREA B
C3.1	PAVING, UTILITY, AND HORIZONTAL CONTROL PLAN
C4.1	NOTES AND DETAILS
C4.2	NOTES AND DETAILS
C4.3	NOTES AND DETAILS
C4.4	NOTES AND DETAILS
L1.0	TREE RETENTION PLAN AREA A
L1.1	TREE RETENTION PLAN AREA B
L2.0	SOIL PREPARATION PLAN AREA A
L2.1	SOIL PREPARATION PLAN AREA B
L3.0	PLANTING PLAN AREA A
L3.1	PLANTING PLAN AREA B
L3.2	PLANTING SCHEDULE AND DETAILS
L4.0	IRRIGATION PLAN AREA A
L4.1	IRRIGATION PLAN AREA B
L4.2	IRRIGATION DETAILS
L4.3	IRRIGATION DETAILS

MASTER LEGEND:

EXISTING	PROPOSED	
△	△	SET NAIL AND WASHER
●	●	SET REBAR AND CAP
○	○	BOLLARD
⊙	⊙	SIGN AS NOTED
⊗	⊗	FLAG POLE
○	○	SANITARY SEWER MANHOLE
○	○	SANITARY SEWER CLEANOUT
□	□	STORM CATCH BASIN
⊙	⊙	STORM MANHOLE
○	○	ROOF DRAIN
⊙	⊙	GAS METER
⊙	⊙	GAS VALVE
⊙	⊙	POWER TRANSFORMER
⊙	⊙	UTILITY POWER POLE
⊙	⊙	ELECTRICAL VAULT
⊙	⊙	LUMINAIRE
⊙	⊙	TELEPHONE RISER
⊙	⊙	TELEPHONE VAULT
⊙	⊙	FIRE DEPARTMENT CONNECTION
⊙	⊙	FIRE HYDRANT
⊙	⊙	IRRIGATION CONTROL VALVE
⊙	⊙	POST INDICATOR VALVE
⊙	⊙	WATER METER
⊙	⊙	WATER VALVE
⊙	⊙	WATER VAULT
⊙	⊙	CONIFEROUS TREE
⊙	⊙	DECIDUOUS TREE
---	---	STORM LINE
---	---	SANITARY SEWER LINE
---	---	GAS LINE
---	---	ELECTRICAL LINE
---	---	COMMUNICATIONS LINE
---	---	WATER LINE
---	---	IRRIGATION PER RECORD DRAWING
---	---	FENCE
---	---	CONCRETE
---	---	ASPHALT
---	---	BRICK
---	---	CONTOUR MAJOR INTERVAL
---	---	CONTOUR MINOR INTERVAL
---	---	PROPERTY / RIGHT-OF-WAY LINE

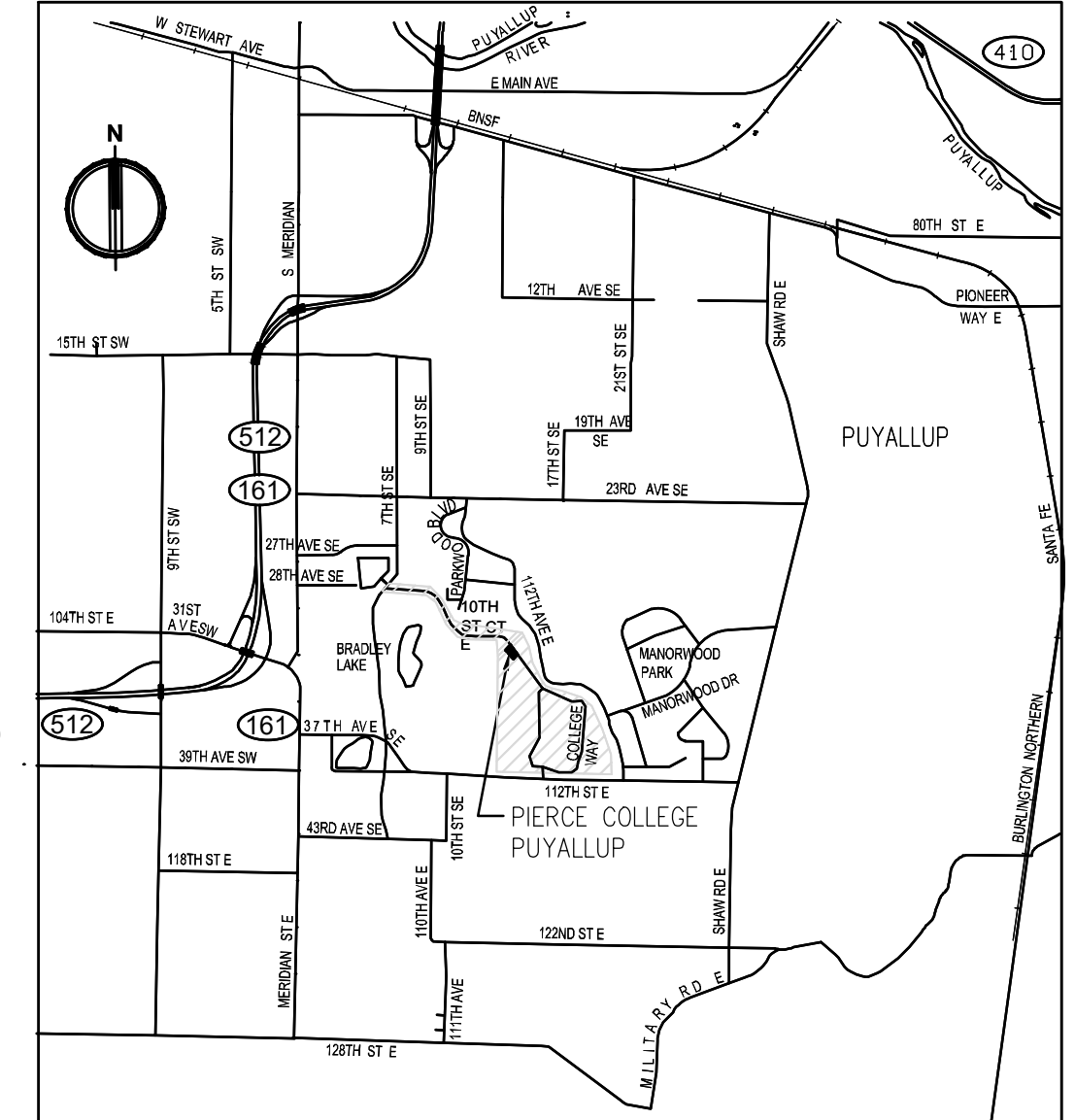
CITY OF PUYALLUP GENERAL NOTES

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT CENTER TO BE ATTENDED BY ALL MAJOR CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES, AND THE CITY OF PUYALLUP. CONTACT ENGINEERING SERVICES AT (253-864-4165) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (1-800-424-5555) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, STORM) OF 5 FEET.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY AT (360)407-6300.
- ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

EARTHWORK DATA

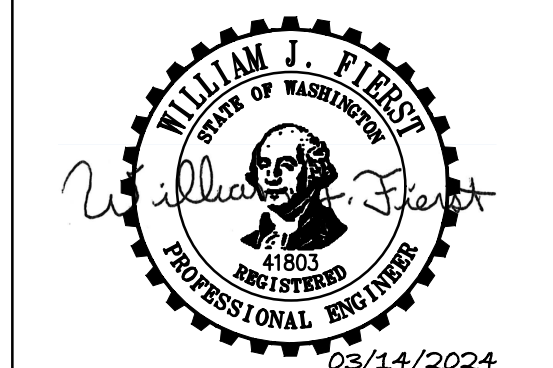
APPROX. PROJECT SITE CUT: 1,711 CY
APPROX. PROJECT SITE FILL: 8,745 CY
APPROX. PROJECT SITE NET: 7,034 CY (FILL)

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



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building Planning
Engineering Public Works
Fire Traffic



project
PUYALLUP PARKING EXPANSION - HEP PARKING LOT

client
PIERCE COLLEGE

location
PUYALLUP, WA

state project number
2020-5461(5-1)

Project No. 2012.000
COVER SHEET

issued
BID SET 15 MAR 24

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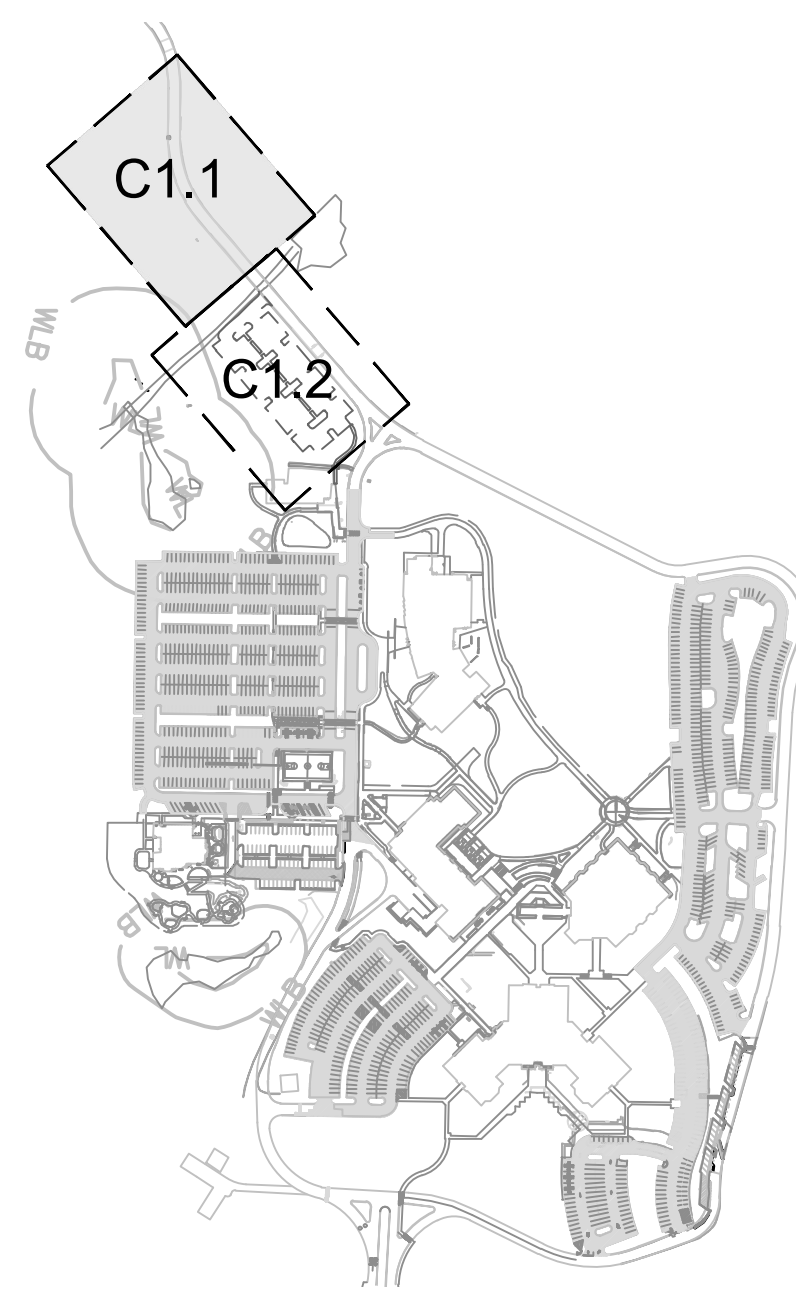
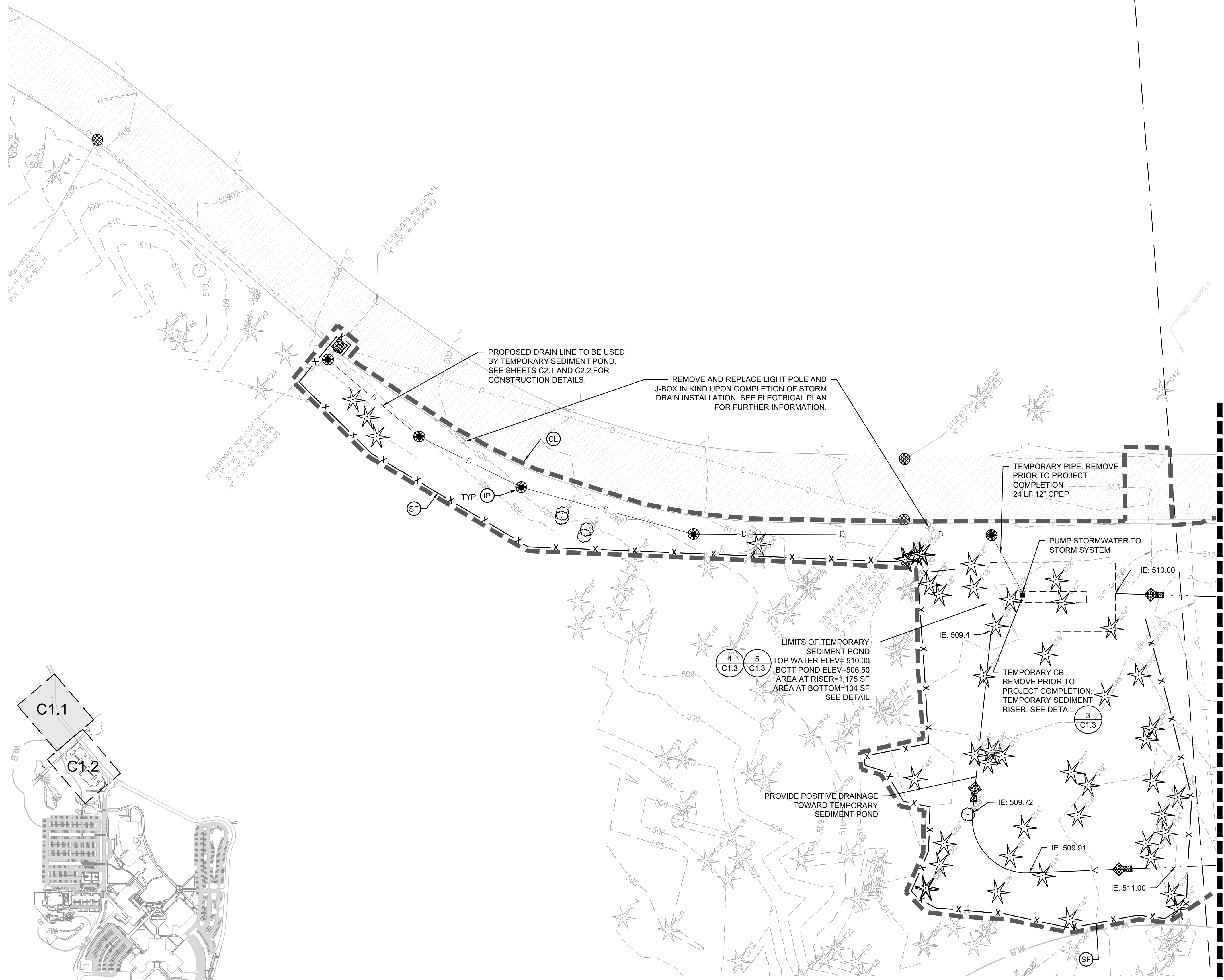
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Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)

ORIGINAL SHEET IS 24' x 36'
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DATE: March 14, 2024 FILENAME: Q:\2020\2200718\10_CIV\CAD\1_PARKING LOT_Lot A Redesign\2200718-SH-COVER.dwg



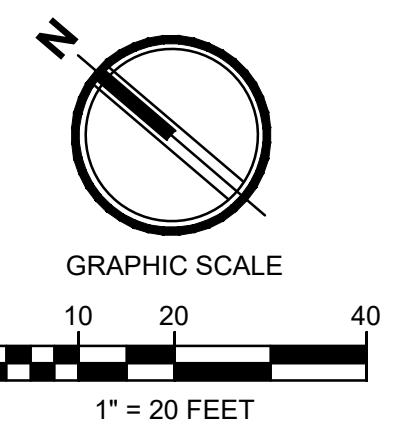
KEY MAP
SCALE: 1" = 400'

LEGEND:

- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT
- REMOVE EXISTING GRAVEL
- REMOVE EXISTING UTILITY
- CLEARING/PROJECT LIMITS
- SAWCUT LINE
- INLET PROTECTION $\frac{3}{C1.4}$
- CONSTRUCTION ENTRANCE $\frac{1}{C1.3}$
- TEMPORARY PIPE, REMOVE PRIOR TO PROJECT COMPLETION 24 LF 12" CPEP
- ROCK CHECK DAM $\frac{2}{C1.4}$
- INTERCEPTOR SWALE $\frac{1}{C1.4}$
- TREE PROTECTION FENCE
- PROPOSED DRAIN LINE, SEE SHEET C2.2 FOR CONSTRUCTION
- TREES TO BE REMOVED
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS

NOTES

1. PROTECT EXISTING UTILITIES TO REMAIN.
2. VERIFY EXISTING UTILITIES SERVICING SITE.
3. SEE DEMOLITION NOTES WET SEASON SPECIAL PROVISIONS ON SHEET C1.5. SEE EROSION CONTROL DETAILS ON SHEET C1.5. SEE SHEET C1.5 FOR CONSTRUCTION SEQUENCE AND HYDROSEEDING NOTES.
4. 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.
5. EROSION CONTROL MEASURES SHALL BE PROVIDED IMMEDIATELY AT THE COMMENCEMENT OF CONSTRUCTION. HYDROSEED SHALL BE APPLIED TO ALL DISTURBED AREAS PER HYDROSEED NOTES ON SHEET C1.3.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLISHED AND CLEARED MATERIALS. DISPOSE OF ALL ASBESTOS CEMENT PIPING PER WAC REQUIREMENTS.
7. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN.
8. CLEAR AND GRUB ALL TREES AND VEGETATION WITHIN CLEARING LIMITS. REMOVE ALL BOULDERS AND CONCRETE BLOCKS WITHIN THE CLEARING LIMITS.
9. THE CONTRACTOR SHALL DEMOLISH EXISTING IRRIGATION LINES EXPOSED BY THE WORK. CONTRACTOR SHALL CONSTRUCT NEW IRRIGATION LINES TO MAINTAIN SERVICE. SEE THE IRRIGATION PLANS.
10. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITIES WITHIN WORK LIMITS TO FINISH GRADE.
11. PROTECT EXISTING FEATURES WITHIN CLEARING LIMITS TO REMAIN.
12. DEMOLISH TEMPORARY STRUCTURES AND PIPES AT THE COMPLETION OF THE PROJECT.
13. DEMOLISH ALL DARKER EXISTING FEATURES WITHIN CLEARING LIMITS. LIGHTER EXISTING FEATURES SHALL BE PROTECTED AND REMAIN.
14. CONTRACTOR SHALL FIELD VERIFY ALL TREE LOCATIONS PRIOR TO REMOVAL, AND NOTIFY THE LANDSCAPE ARCHITECT IF TREE LOCATIONS ARE DIFFERENT THAN SHOWN ON THE PLANS.
15. CONTRACTOR SHALL GRADE SURFACES TO DRAIN TO TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
16. CONTRACTOR CESCL SHALL ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE, INCLUDING THE TESC POND.
17. CONTRACTOR SHALL CLEAN ROAD AT MINIMUM DAILY OR AS SEDIMENTATION INTO THE ROADWAY OCCURS.
18. CONTRACTOR SHALL REPLACE ANY DAMAGED PAVING, CURBS, OR OTHER EXISTING FEATURES IN KIND.
19. DURING CONSTRUCTION, ALL PAVED AREAS ADJACENT TO THE PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS NECESSARY. THE CONTRACTOR SHALL CLEAN PAVED AREAS AS NECESSARY AND AT MINIMUM DAILY.
20. SITE ACCESS AND HAUL ROUTE SHALL BE APPROVED BY THE COLLEGE.
21. AMEND ALL DISTURBED SOILS PER CITY OF PUYALLUP STANDARD DETAIL NO. 01.02.08A. SEE DETAIL 5, SHEET C4.1.



APPROVED
BY *[Signature]*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE 04/08/2024

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

mcb-ARC

architect_
MGRANAHAN ARCHITECTS

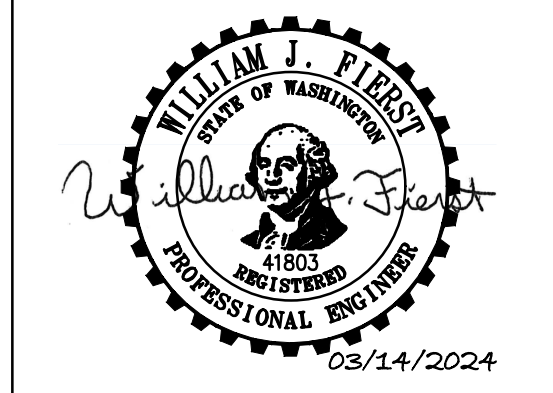
civil engineer_
AHBL

landscape design_
AHBL

electrical engineer_
HARGIS ENGINEERS

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

Building	Planning
Engineering	Public Works
Fire	Traffic



project_
PUYALLUP PARKING EXPANSION -
HEP PARKING LOT

client_
PIERCE COLLEGE

location_
PUYALLUP, WA

state project number_
2020-5461(5-1)

Project No. 2012.000
**TESC AND
DEMOLITION PLAN
AREA B**

issued_
BID SET 15 MAR 24

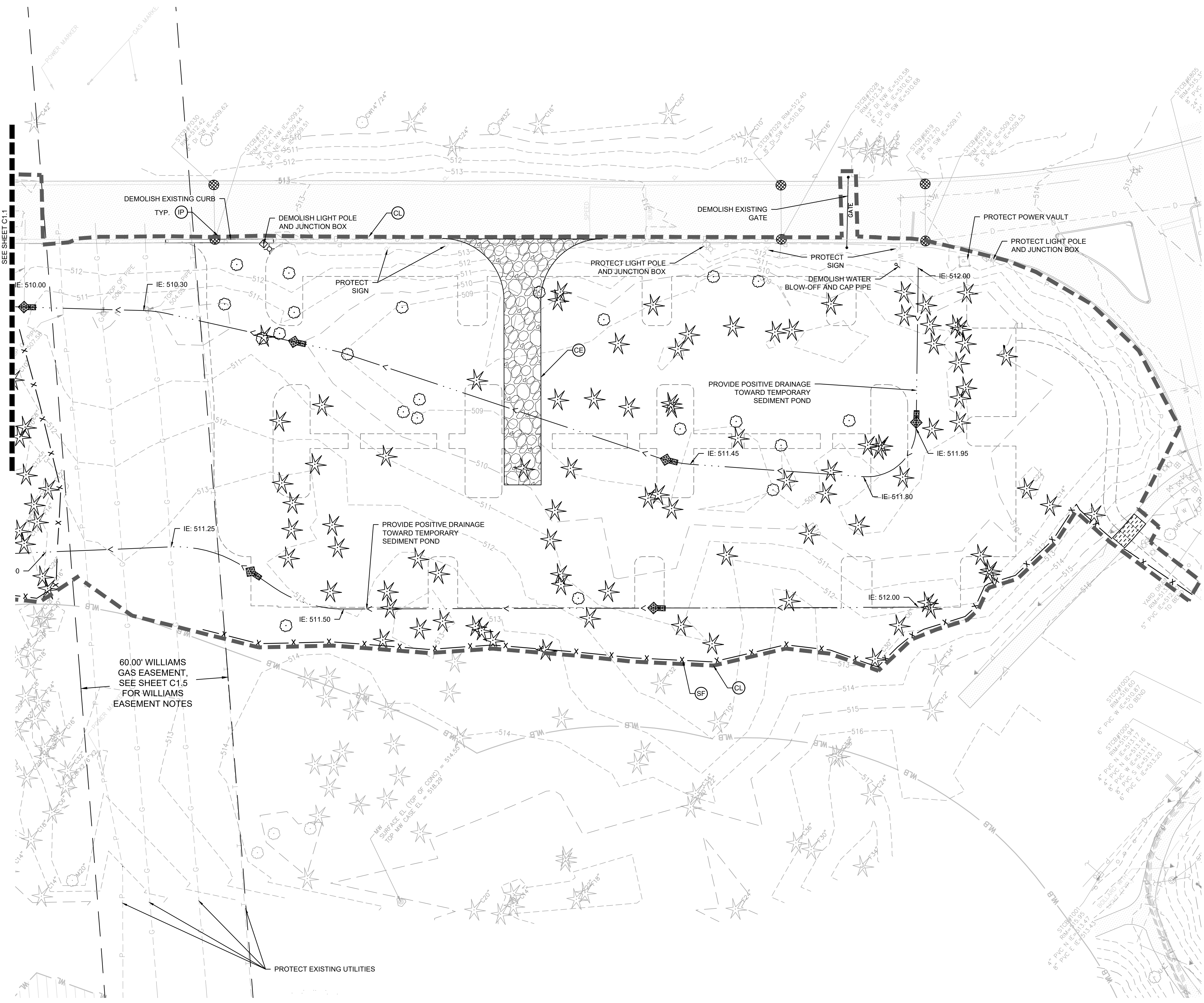
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Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)

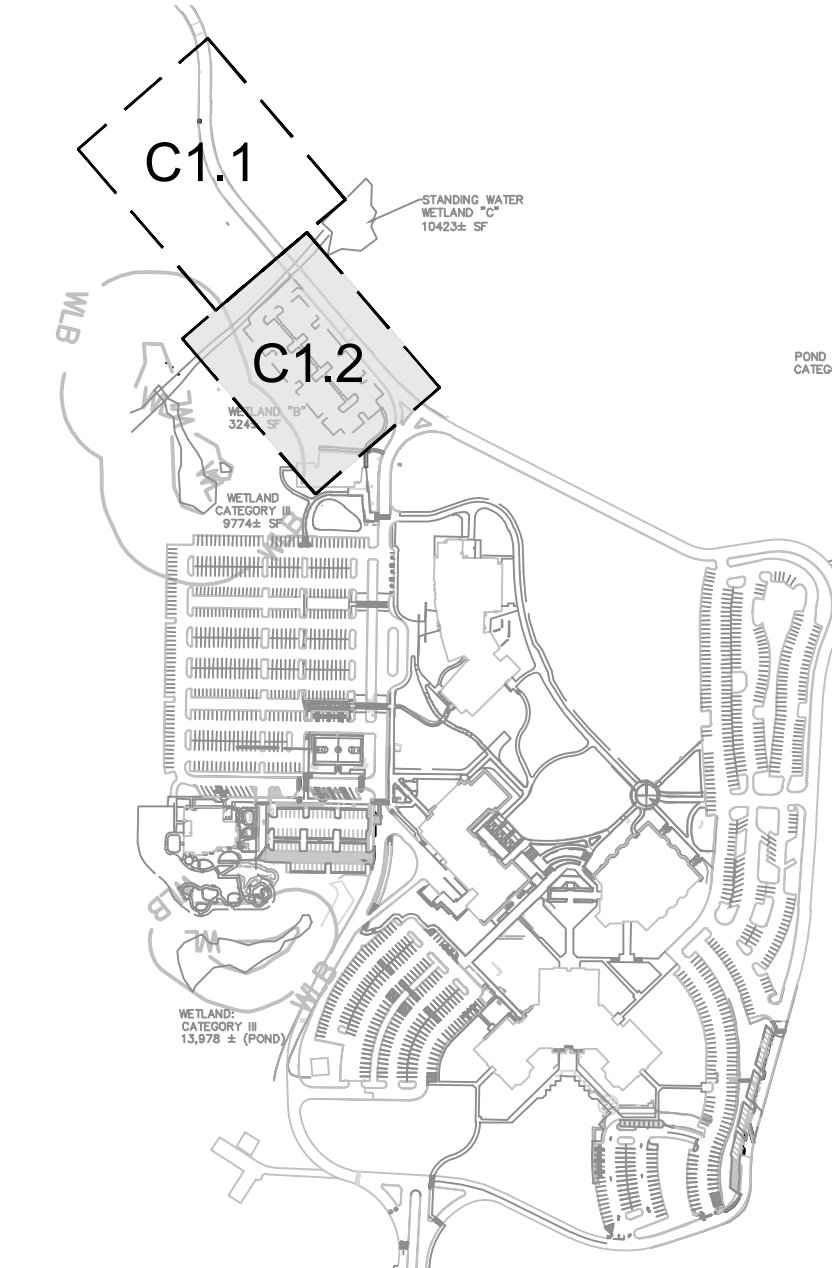


APPROVED
 BY: *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE: 04/08/2024

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

- LEGEND:**
- IP INLET PROTECTION (3 C1.4)
 - REMOVE EXISTING CONCRETE
 - REMOVE EXISTING ASPHALT
 - REMOVE EXISTING GRAVEL
 - CE CONSTRUCTION ENTRANCE (1 C1.3)
 - REMOVE EXISTING UTILITY
 - CL CLEARING/PROJECT LIMITS
 - SL SAWCUT LINE
 - SF SILT FENCE (2 C1.3)
 - ROCK CHECK DAM (2 C1.4)
 - INTERCEPTOR SWALE (1 C1.4)
 - TREE PROTECTION FENCE
 - TREES TO BE REMOVED
 - EXISTING MAJOR CONTOURS
 - EXISTING MINOR CONTOURS

- NOTES**
- SEE NOTES ON SHEET C1.1.
 - CONTRACTOR SHALL GRADE SURFACES TO DRAIN TO TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
 - AMEND ALL DISTURBED SOILS PER CITY OF PUYALLUP STANDARD DETAIL NO. 01.02.08A. SEE DETAIL 5, SHEET C4.1.



mcb-ARC

architect_
MGRANAHAN ARCHITECTS

civil engineer_
AHBL

landscape design_
AHBL

electrical engineer_
HARGIS ENGINEERS

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

Building	Planning
Engineering	Public Works
Fire	Traffic



project_
PUYALLUP PARKING EXPANSION - HEP PARKING LOT

client_
PIERCE COLLEGE

location_
PUYALLUP, WA

state project number_
2020-5461(5-1)

Project No. 2012.000

TESC AND DEMOLITION PLAN AREA A

issued_
BID SET 15 MAR 24

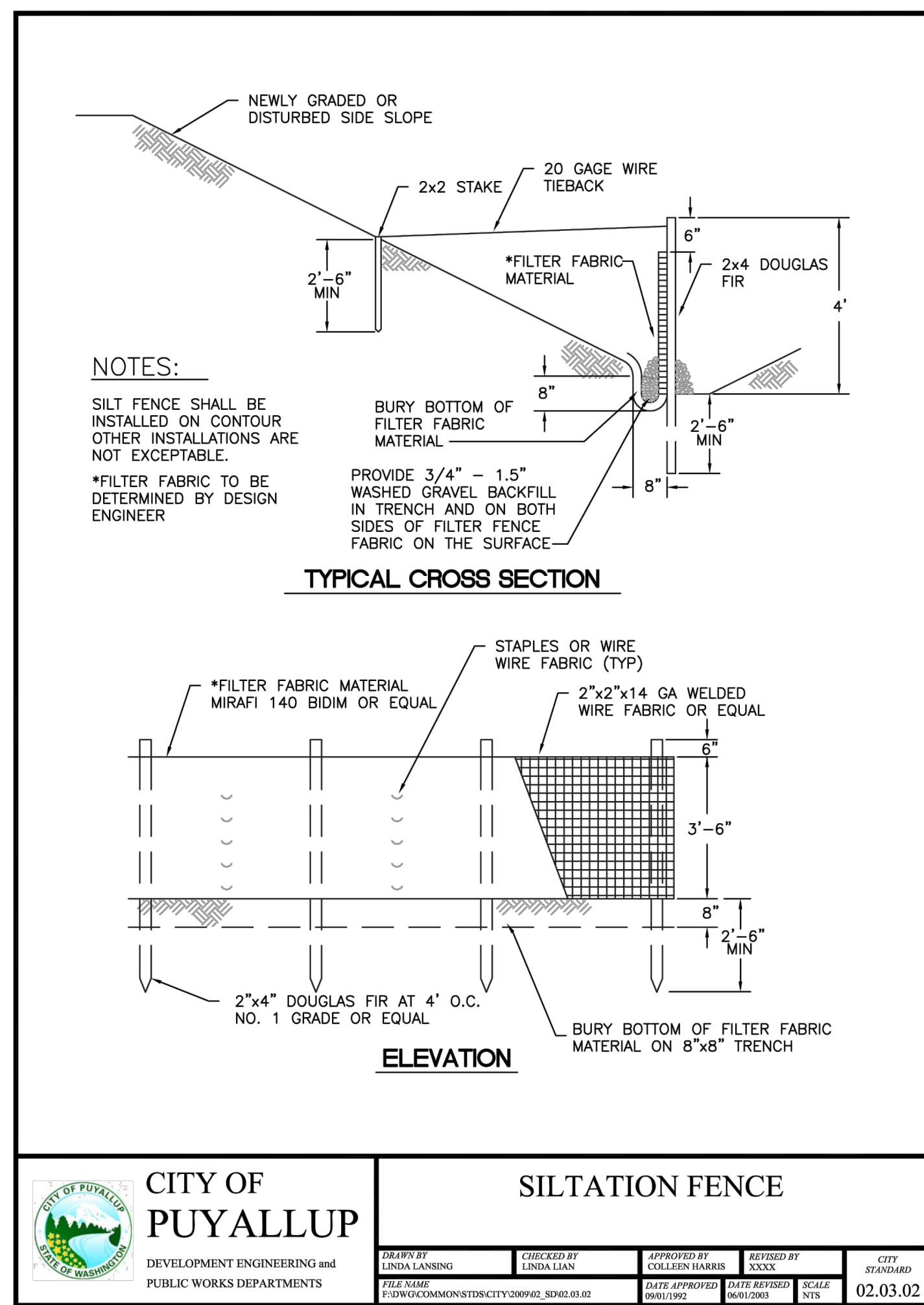
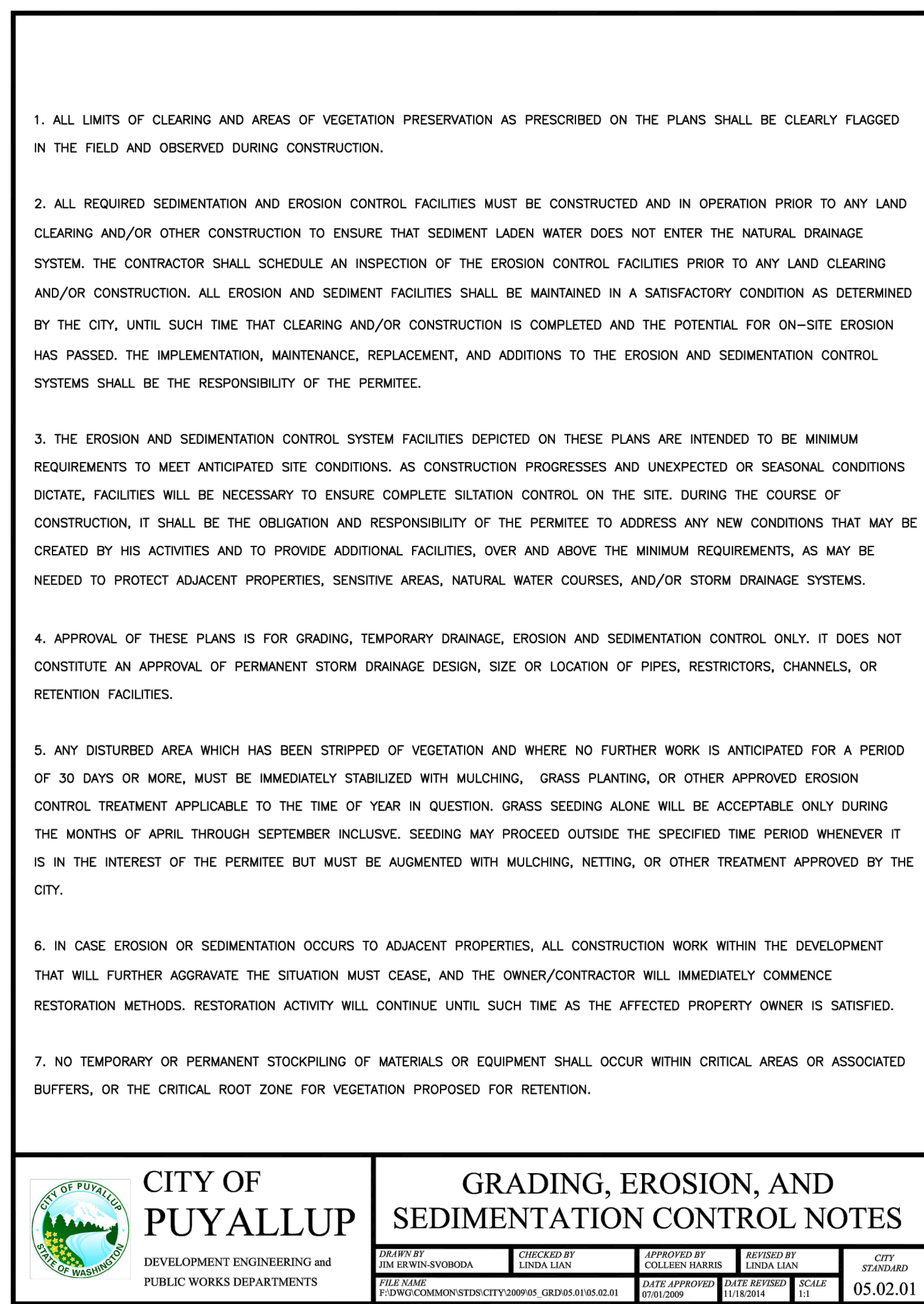
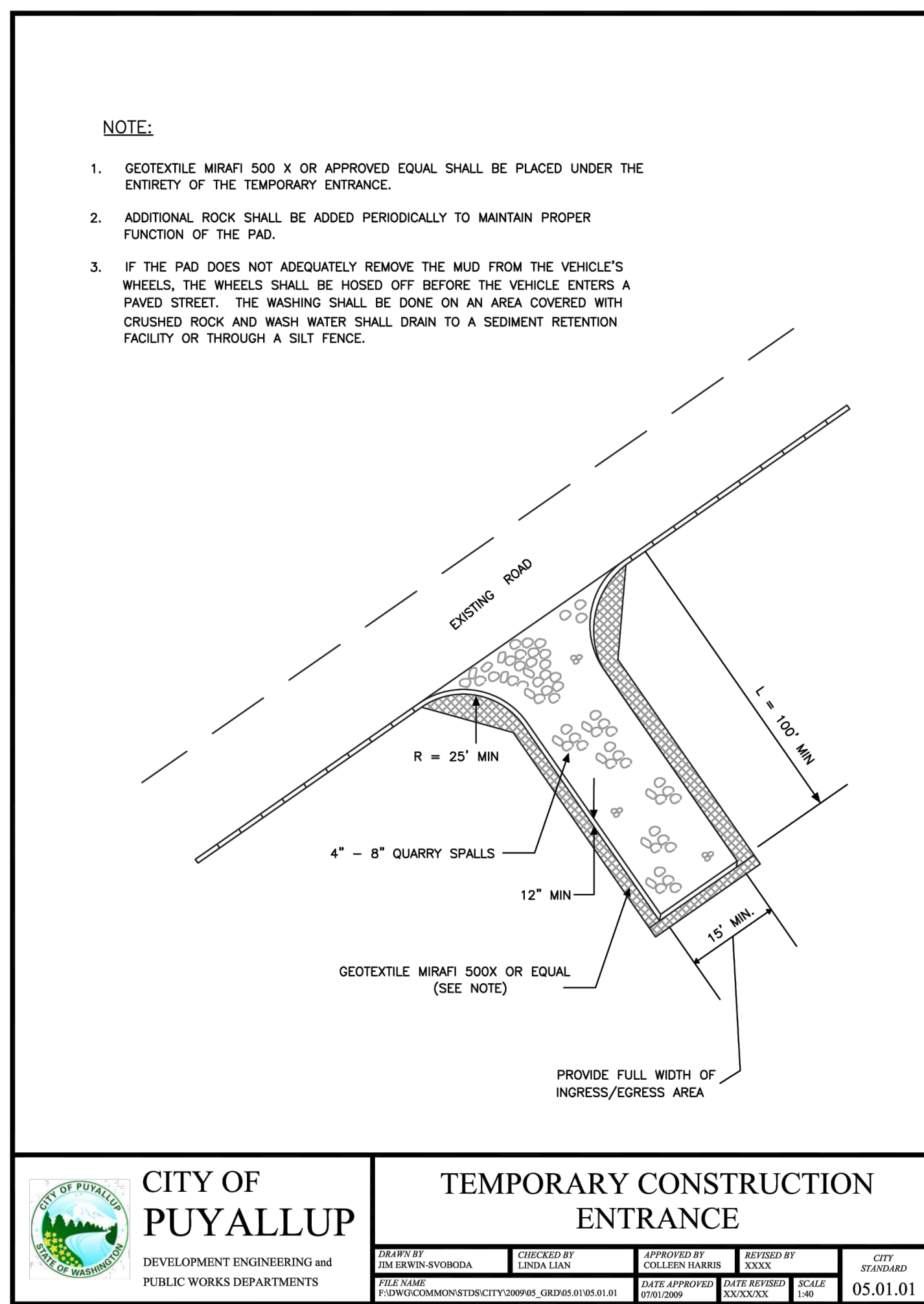
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Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)



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. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
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 IMMEDIATELY.
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.

APPROVED
BY: *Colleen Harris*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE: 04/08/2024

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mcb-ARC

architect
MCGRANAHAN ARCHITECTS

civil engineer
AHBL

landscape design
AHBL

electrical engineer
HARGIS ENGINEERS

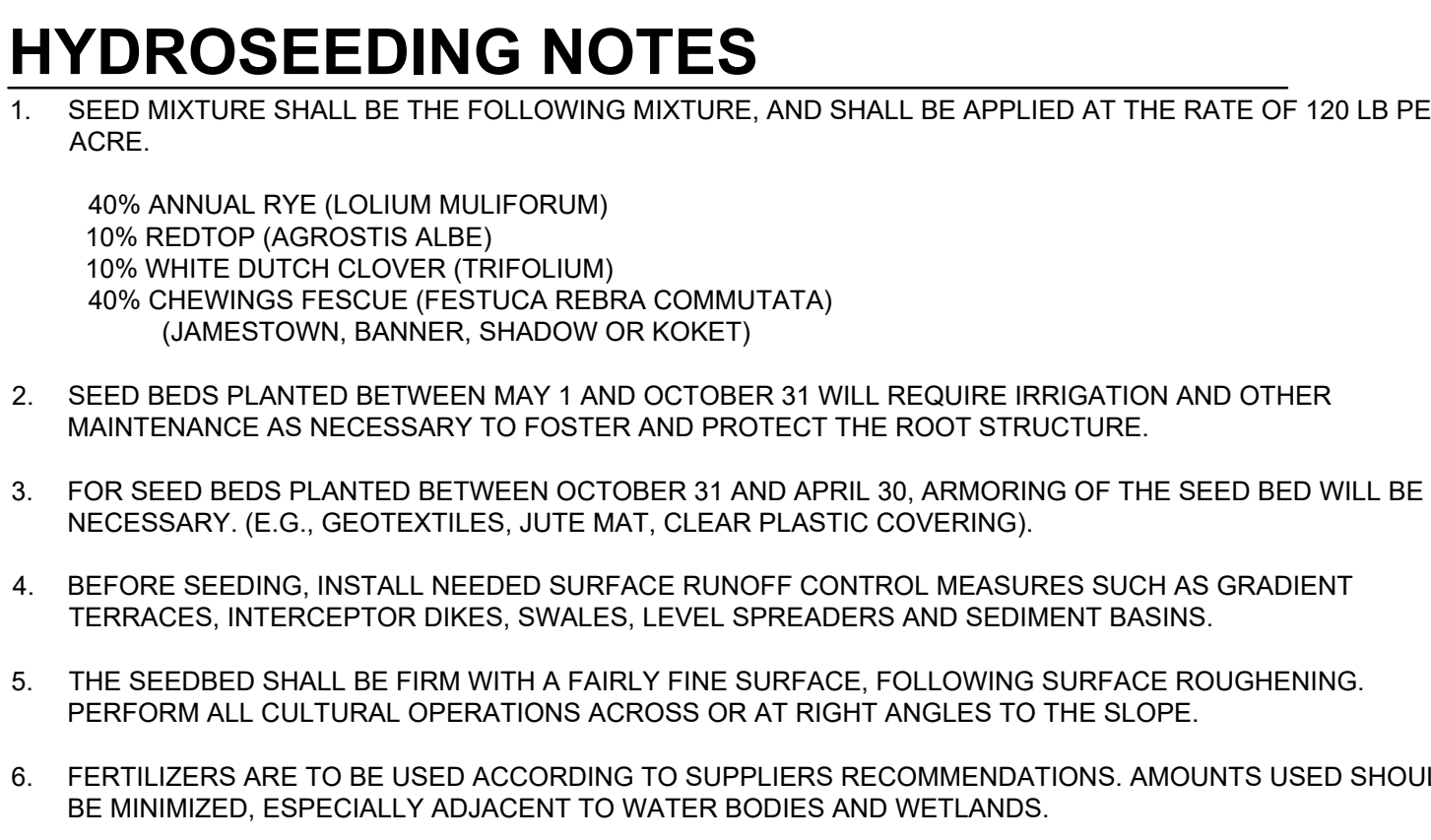
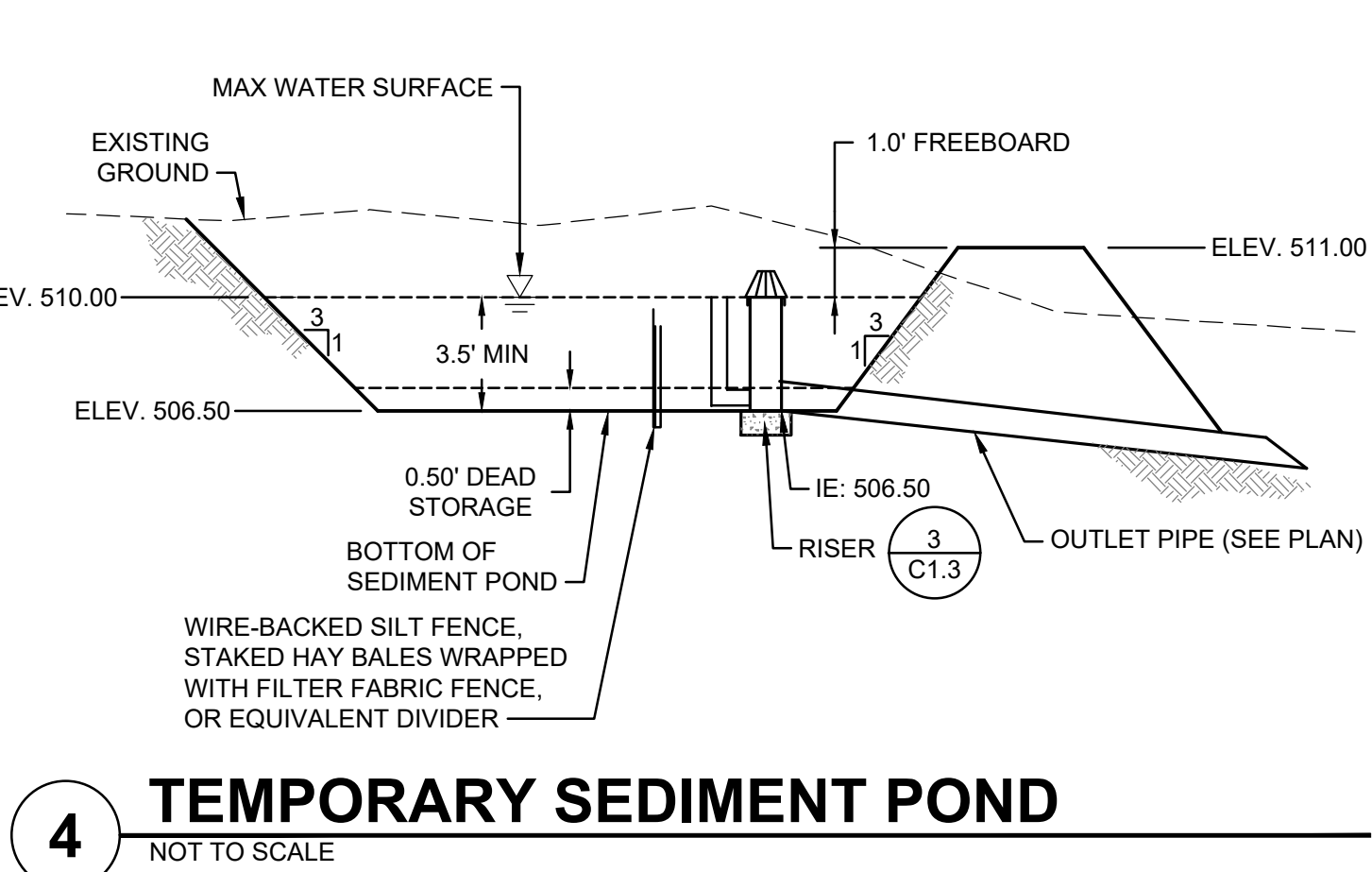
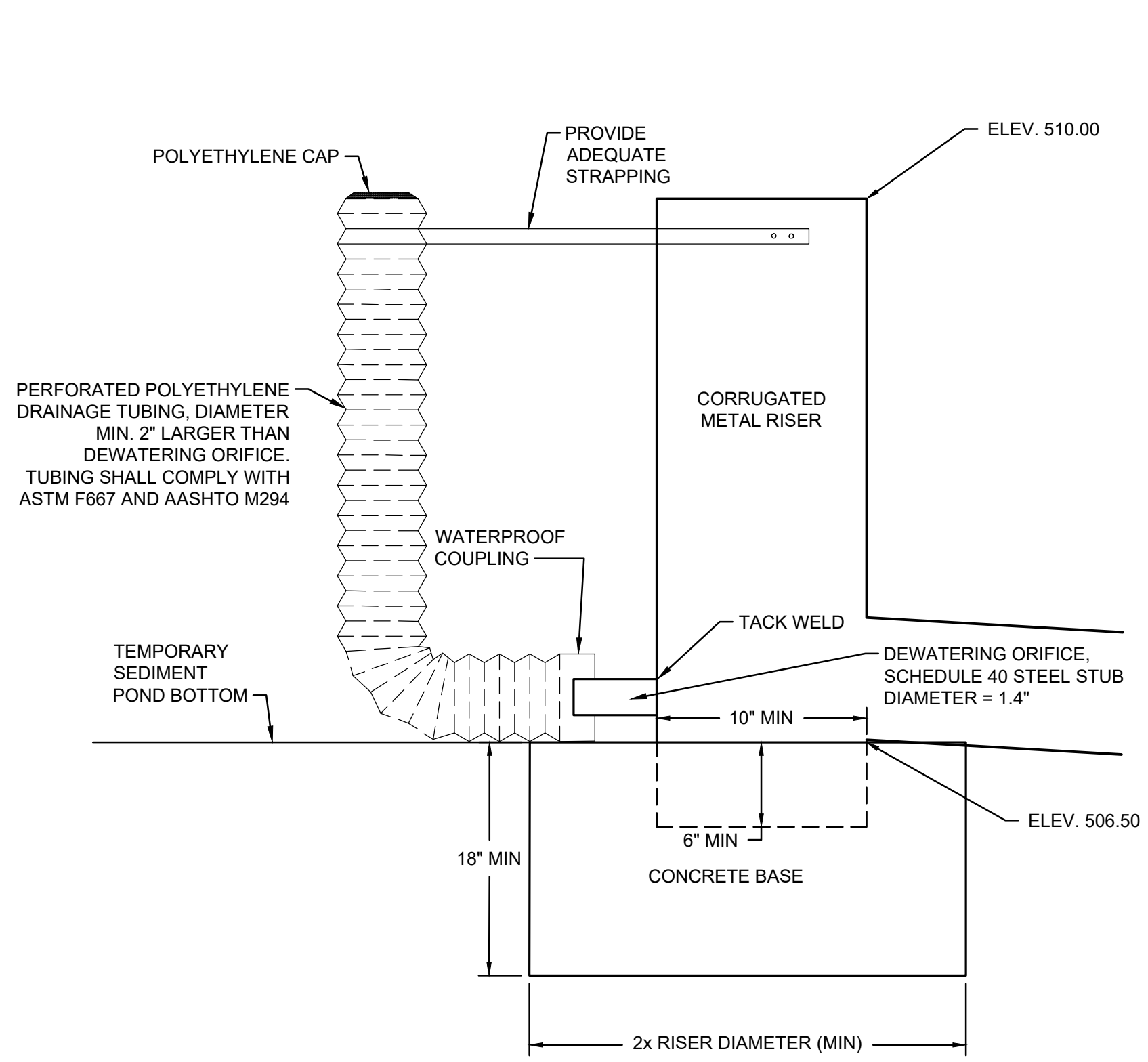
City of Puyallup Development & Permitting Services ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



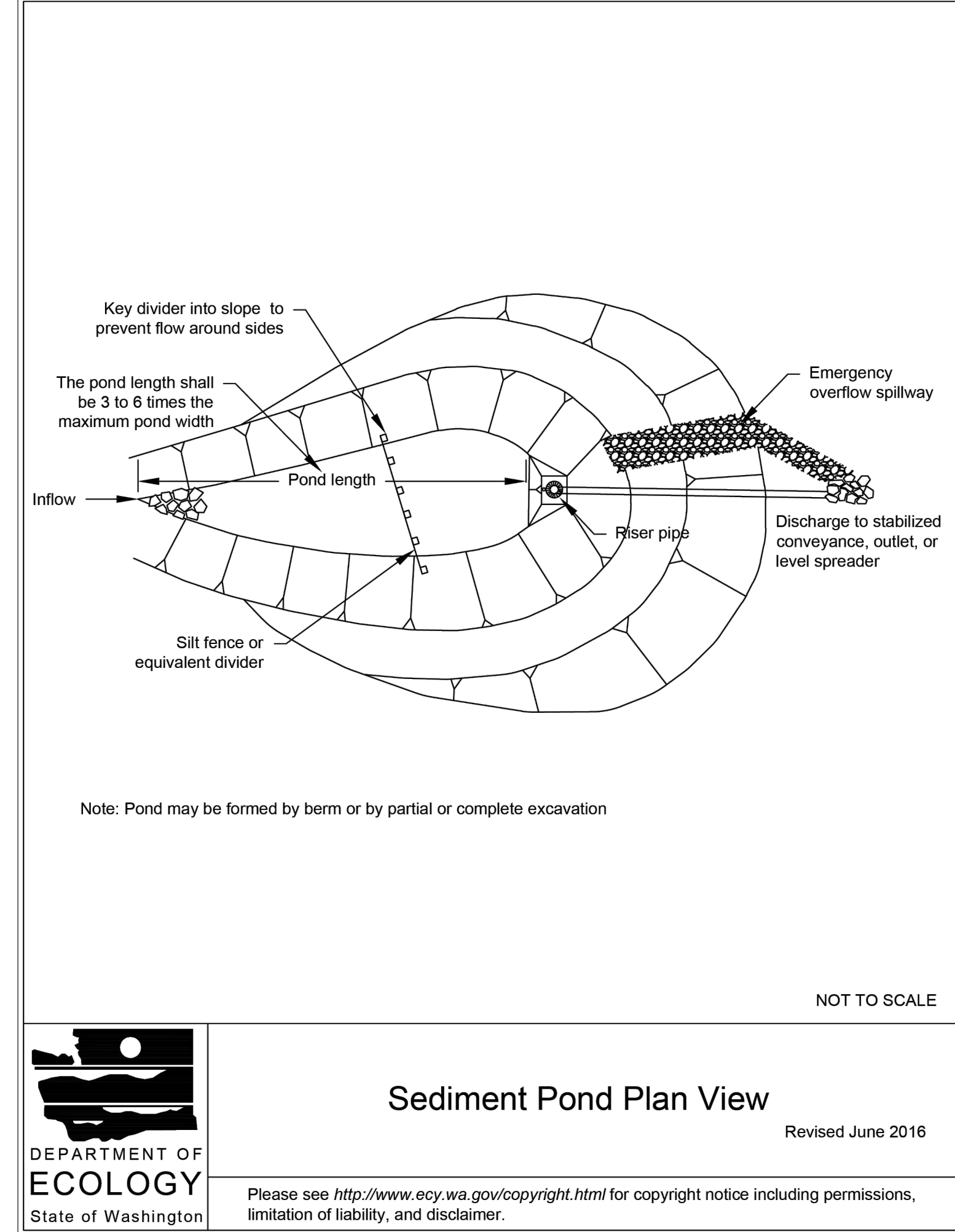
1 TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

2 SILT FENCE
NOT TO SCALE



DEMOLITION NOTES

1. DEMOLITION: IT IS THE INTENT OF THE WORK UNDER THIS CONTRACT TO INCLUDE THE DEMOLITION OF ALL EXISTING PAVING, UTILITIES AND OTHER EXISTING SITE IMPROVEMENTS INCLUDING THEIR UNDERGROUND COMPONENTS AS INDICATED BY THIS DRAWING AND AS REQUIRED FOR NEW CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY REVIEW THE SITE CONDITIONS AND TO CORRELATE THESE OBSERVATIONS WITH THE PROJECT WORK AND INCLUDE ALL NECESSARY DEMOLITION, WHETHER SHOWN OR NOT, AND INCLUDE ALL SUCH COSTS IN THE BASE BID.
2. CLEARING: IT IS THE INTENT OF THE WORK UNDER THIS CONTRACT TO CONDUCT ALL CLEARING NECESSARY TO BE ABLE TO COMPLETE ALL THE WORK OF THIS PROJECT.
3. CONTRACTOR SHALL LEGALLY DISPOSE OF THE OWNER'S PROPERTY, ALL DEMOLISHED AND REMOVED MATERIALS, UNLESS INDICATED OTHERWISE.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR FOR ENSURING THAT ALL UTILITIES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH NEW CONSTRUCTION.
5. COORDINATE POWER DEMOLITION WITH UTILITY PURVEYOR AND ELECTRICAL PLANS. CONTRACTOR TO ENSURE THAT DEMOLITION OF LINES WILL NOT COMPROMISE POWER TO OTHER AREAS.
6. ANY ABANDONED SIDE SEWER(S) SHALL BE DEMOLISHED, PLUGGED, OR CAPPED AS SHOWN.
7. UTILITIES TO BE ABANDONED SHALL BE CAPPED. CONTRACTOR SHALL AS-BUILT LOCATION.
8. REFER TO LANDSCAPE ARCHITECTURE DRAWINGS FOR TREE PROTECTION REQUIREMENTS.
9. ALL MONUMENTS DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPLACED PER WAC 332-120 AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL APPLY FOR PERMIT FROM THE DEPARTMENT OF NATURAL RESOURCES AS NECESSARY.
10. 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.
11. COORDINATE DEMOLITION OF ASPHALT WITH TESC PLAN. MAINTAIN PAVEMENT AS A WORKING SURFACE AS LONG AS FEASIBLE. COORDINATE STUDENT ACCESS ALONG SOUTH SIDE OF PROJECT LIMITS WITH COLLEGE - PROVIDE A SAFE PEDESTRIAN ACCESS MEETING ADA REQUIREMENTS.
12. CONTRACTOR SHALL MINIMIZE DUST GENERATION ONSITE BY SPRINKLING THE SITE WITH WATER UNTIL SURFACE IS WET. SEE BMP C140.
13. SAWCUT CONCRETE SIDEWALK AT THE NEAREST JOINT.



project
PUYALLUP PARKING EXPANSION - HEP PARKING LOT

client
PIERCE COLLEGE

location
PUYALLUP, WA

state project number
2020-5461(5-1)

Project No. 2012.000

TESC NOTES AND DETAILS

issued
BID SET 15 MAR 24

revision

drawn
C Hovde

checked
W Fierst

sheet
C1.3

Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)

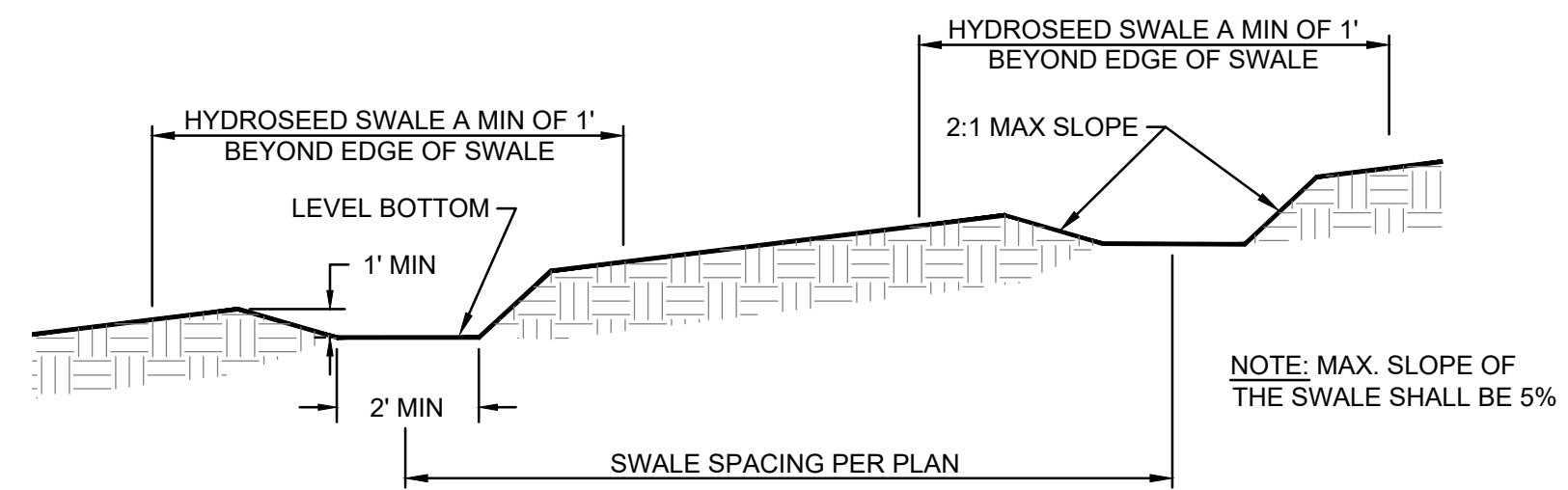
APPROVED
 BY *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE 04/08/2024

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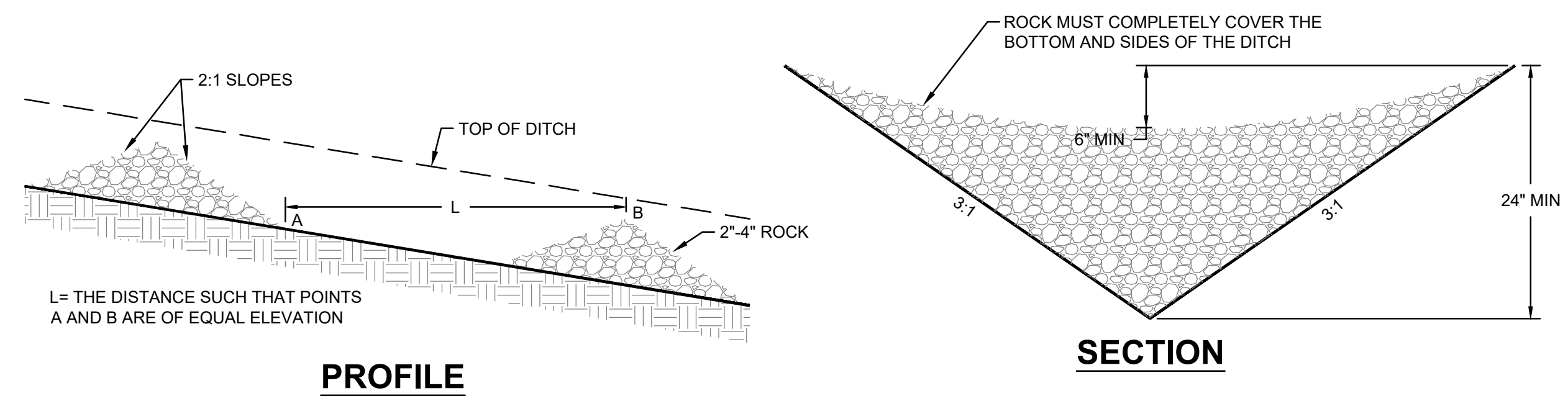
mcb - ARC

architect_ MCGRANAHAN ARCHITECTS
 civil engineer_ AHBL
 landscape design_ AHBL
 electrical engineer_ HARGIS ENGINEERS

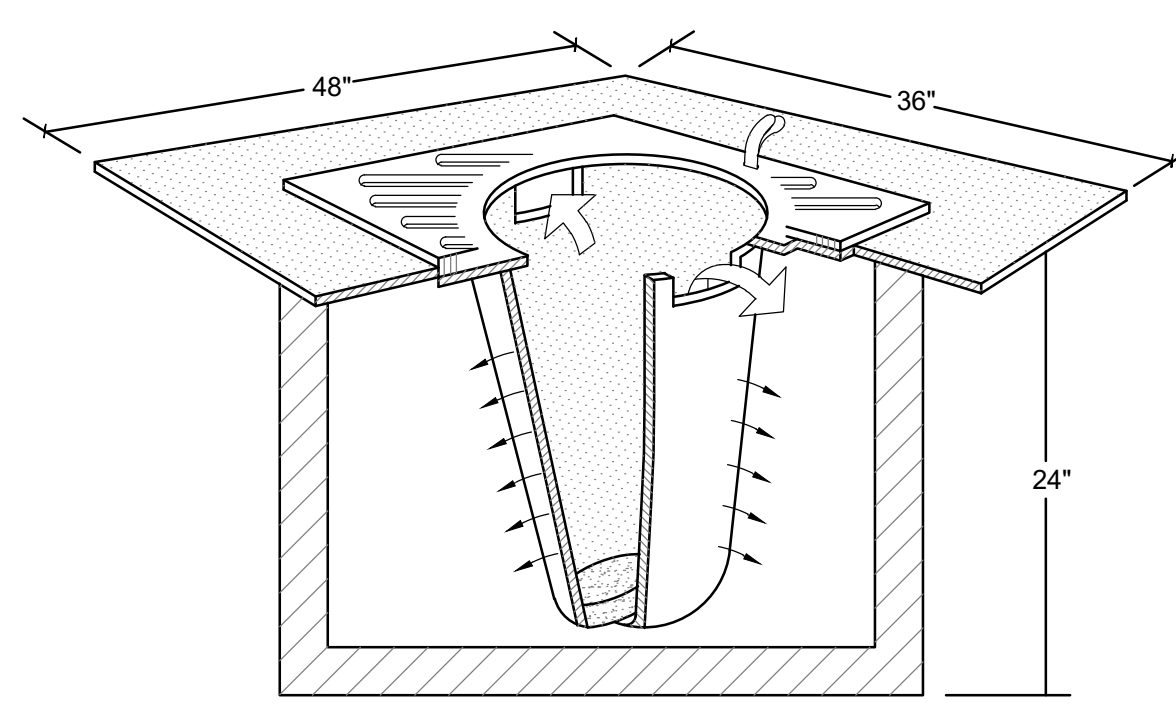
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic



1 INTERCEPTOR SWALE
 NOT TO SCALE



2 ROCK CHECK DAM
 NOT TO SCALE



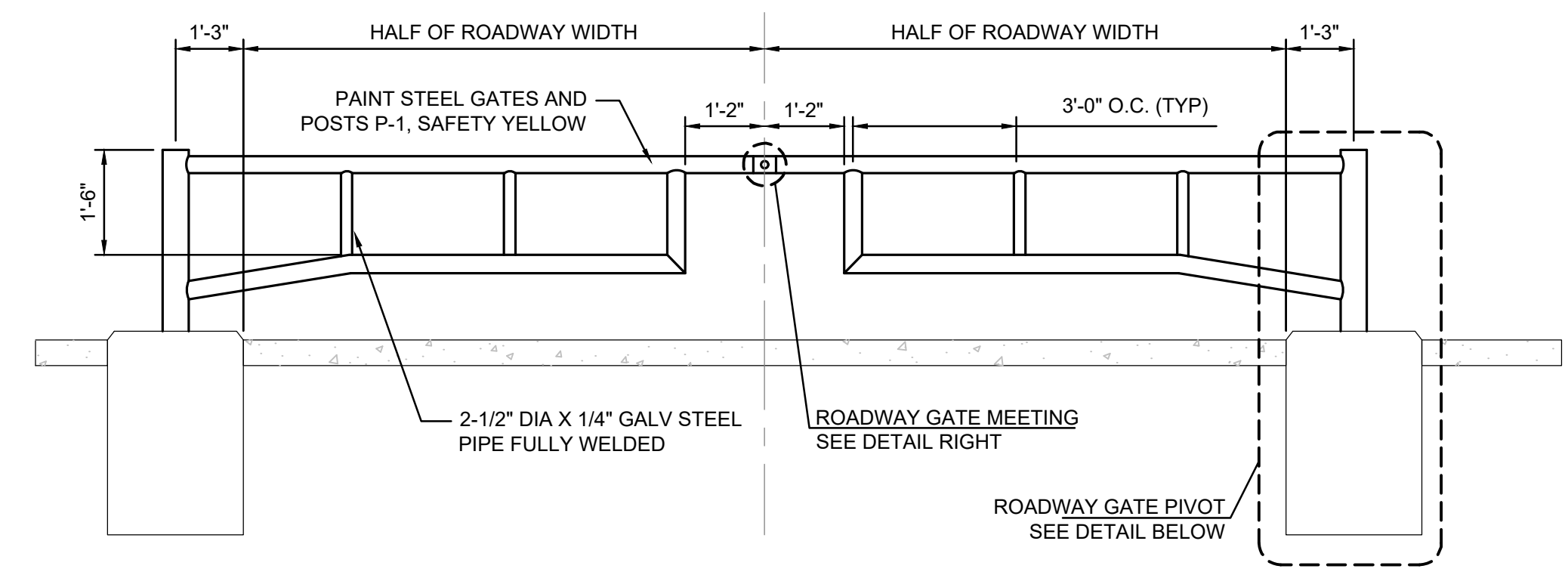
- NOTES:**
- FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL.
 - INSTALL INLET PROTECTION IN ALL NEW STORM STRUCTURES THAT WILL COLLECT STORMWATER AS THEY ARE INSTALLED.

INLET PROTECTION NOTES

- SIZE THE CATCH BASIN INSERT FOR THE STORMWATER STRUCTURE IT WILL SERVICE.
- THE INSERT SHALL HAVE AN OVERFLOW BYPASS.
- THE RETRIEVAL SYSTEM MUST ALLOW FOR THE REMOVAL OF THE INSERT WITHOUT SPILLING THE COLLECTED MATERIAL.
- MAINTAIN IN ACCORDANCE WITH WSDOT STANDARD SPEC 8-01.3(15).

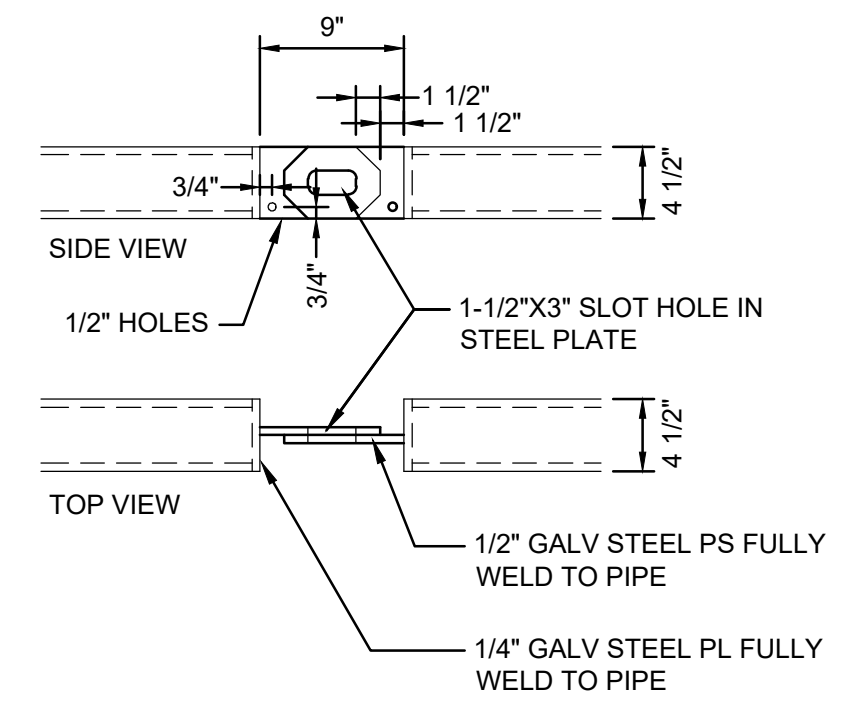
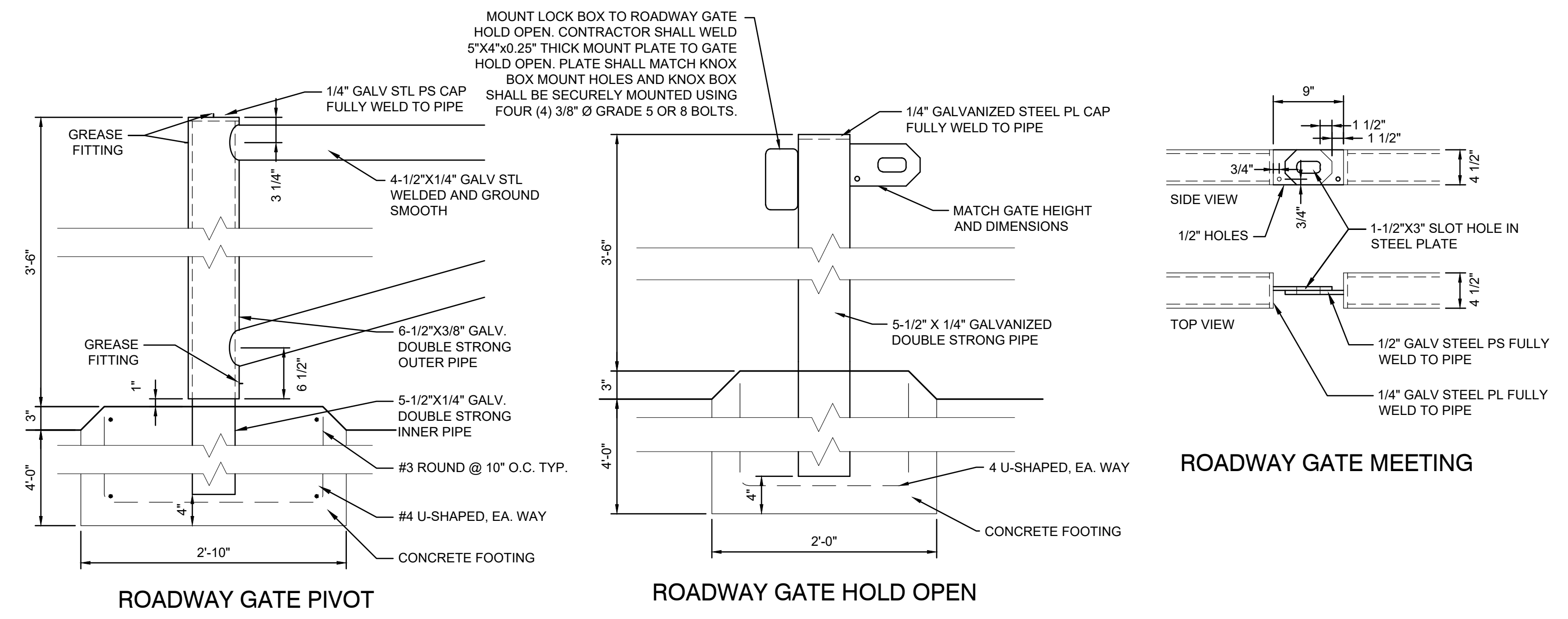
3 INLET PROTECTION
 NOT TO SCALE

- NOTE:**
- PROVIDE KNOX BOX PER PIERCE COUNTY STANDARDS.
 - PROVIDE HOLD OPEN POST FOR EACH GATE LEAF. SEE DETAIL BELOW.
 - GATE SHALL BE FULLY RETROREFLECTORIZED BOTH SIDES WITH VERTICAL STRIPES ALTERNATELY RED AND WHITE AT 16-INCH INTERVALS MEASURED HORIZONTALLY.



CITY OF PUYALLUP GRADING, EROSION, AND SEDIMENTATION CONTROL

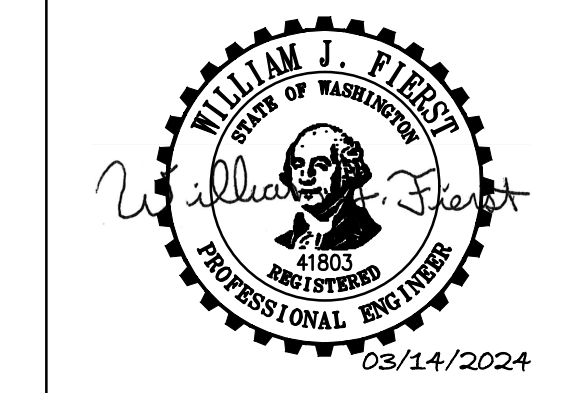
- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253)841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY ENGINEER PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- 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.
- 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 OTHER 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 PERMITTEE.
- 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 PERMITTEE 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.
- 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.
- 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 INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- 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.
- 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



ROADWAY GATE MEETING

4 ACCESS GATE
 NOT TO SCALE

Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)



project_ PUYALLUP PARKING EXPANSION - HEP PARKING LOT
 client_ PIERCE COLLEGE
 location_ PUYALLUP, WA
 state project number_ 2020-5461(5-1)

Project No. 2012.000
TESC NOTES AND DETAILS

issued_ 15 MAR 24
 BID SET

drawn_ C.Hovde
 checked_ W.Fierst

sheet_ **C1.4**

WILLIAMS EASEMENT GENERAL REQUIREMENTS

- NO ABOVE GROUND STRUCTURES OR APPURTENANCES ARE TO BE LOCATED WITHIN THE WILLIAMS RIGHT OF WAY. THE STRUCTURES AND APPURTENANCES INCLUDE, BUT ARE NOT LIMITED TO: UTILITY POLES, TOWERS, FOUNDATIONS, GUY WIRES, STRUCTURES SUPPORTING AERIAL LINES, SATELLITE DISHES, MANHOLES, CATCH BASINS, UTILITY PEDESTALS, TRANSFORMERS, FIRE HYDRANTS, UTILITY SHEDS, DECKS, SWIMMING POOLS WITH ASSOCIATED IMPROVEMENTS, ETC.
- AN AUTHORIZED WILLIAMS REPRESENTATIVE MUST BE ON SITE PRIOR TO AND DURING ANY SURFACE-DISTURBING WORK OR EQUIPMENT CROSSINGS PERFORMED WITHIN THE RIGHT OF WAY. WILLIAMS REPRESENTATIVE WILL ASSIST IN DETERMINING THE LOCATION OF THE PIPELINE, THE RIGHT OF WAY WIDTH, AND EXISTING COVER OVER THE PIPELINE AND WILL REMAIN ON SITE TO MONITOR ALL ACTIVITIES WITHIN THE RIGHT OF WAY.
- NO CUT OR FILL ON THE WILLIAMS RIGHT OF WAY IS PERMITTED WITHOUT WILLIAMS WRITTEN APPROVAL.
- WILLIAMS, AT ITS DISCRETION, MAY REQUEST EVIDENCE OF COMPREHENSIVE GENERAL LIABILITY INSURANCE COVERAGE (UP TO \$5,000,000 COVERAGE) AND OTHER APPROPRIATE AND USUAL INSURANCE PRIOR TO ANY ACTIVITY, MAINTENANCE, AND/OR CONSTRUCTION ON OR NEAR WILLIAMS RIGHT OF WAY AND FACILITIES. IN THE EVENT OF SIGNIFICANT EXCAVATION UNDER OR OVER WILLIAMS PIPELINES, WILLIAMS WILL REQUIRE THAT THE APPLICABLE WILLIAMS PIPELINE COMPANY BE NAMED AS ADDITIONAL INSURED ON THE CERTIFICATE OF LIABILITY INSURANCE. THE INSURANCE LIMITS, TERMS, AND CONDITIONS THAT MAY BE REQUIRED WILL BE DEPENDENT ON THE SPECIFIC FACILITIES POTENTIALLY IMPACTED AND WHAT WOULD BE USUALLY AND PRUDENTLY OBTAINED IN SIMILAR INDUSTRY SITUATIONS.
- ALL FOREIGN LINES WILL CROSS WILLIAMS RIGHT OF WAY AT AN ANGLE AS NEAR TO 90 DEGREES AS POSSIBLE. IN SITUATIONS WHERE THERE ARE MULTIPLE PARALLEL WILLIAMS PIPELINES, THE PROPOSED FOREIGN LINES WILL EITHER CROSS OVER OR UNDER ALL OF WILLIAMS PIPELINES IN THE RIGHT OF WAY. NO HORIZONTAL OR VERTICAL BENDS ARE PERMITTED WITHIN WILLIAMS RIGHT OF WAY. PARALLEL OCCUPANCY OF WILLIAMS RIGHT OF WAY WILL NOT BE PERMITTED.
- ALL FOREIGN LINES CROSSING WILLIAMS PIPELINE OR RELATED FACILITIES WILL BE INSTALLED WITH A MINIMUM OF 24" OF CLEARANCE BETWEEN THE EXISTING WILLIAMS FACILITIES AND THE PROPOSED FOREIGN LINE. THE FOREIGN LINE WILL BE INSTALLED AT A UNIFORM DEPTH ACROSS THE FULL WIDTH OF THE WILLIAMS RIGHT OF WAY. WILLIAMS MAY REQUIRE THAT ALL FOREIGN LINES BE INSTALLED UNDER ITS EXISTING PIPELINES AND RELATED FACILITIES.
- WILLIAMS FACILITIES ARE ELECTRICALLY PROTECTED AGAINST CORROSION. EACH METALLIC FOREIGN LINE THAT ENTERS OR CROSSES WILLIAMS RIGHT OF WAY MUST HAVE A TEST LEAD INSTALLED. IN ADDITION, THE UTILITY CONTRACTOR INSTALLING THE METALLIC FOREIGN LINE MUST EXCAVATE AND EXPOSE ONE OR MORE OF WILLIAMS EXISTING PIPELINES TO PROVIDE FOR THE INSTALLATION OF TEST LEADS BY WILLIAMS EMPLOYEES. ALL NECESSARY MEASURES (COATINGS, ELECTRICAL BONDS, ETC.) WILL BE TAKEN TO ENSURE THAT THE PROPOSED PIPE OR UTILITY IS ADEQUATELY PROTECTED FROM POTENTIAL INTERFERENCE EFFECTS. REQUESTS FOR COOPERATIVE TESTING WILL BE DIRECTED TO WILLIAMS DIVISION OFFICE, "ATTN: SUPERVISOR, ASSET INTEGRITY."
- WILLIAMS MAY REQUIRE THAT FOREIGN LINES BE IDENTIFIED WITH PERMANENT ABOVEGROUND MARKERS WHERE THE LINES ENTER AND EXIT THE WILLIAMS RIGHT OF WAY. IT IS THE LINE OWNER'S RESPONSIBILITY TO OBTAIN ANY RIGHTS TO INSTALL THE MARKERS, AND TO MAINTAIN THE MARKERS. A DIRECT BURIAL WARNING TAPE SHOULD BE PLACED 12" TO 18" ABOVE THE FOREIGN LINE AND EXTEND ACROSS THE ENTIRE WIDTH OF WILLIAMS RIGHT OF WAY.
- FOREIGN LINES CROSSING WILLIAMS FACILITIES WILL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS GOVERNING SUCH INSTALLATIONS.
- STOCKPILING BRUSH, TRASH, OR OTHER DEBRIS ON THE RIGHT OF WAY IS PROHIBITED, AS IT MAY CONCEAL PIPELINE MARKERS AND HINDER PIPELINE INSPECTIONS OR ROUTINE MAINTENANCE.

WILLIAMS EASEMENT EXCAVATION

- PLANS FOR EXCAVATION ON THE RIGHT OF WAY REQUIRE PRIOR APPROVAL BY WILLIAMS. NO MACHINE EXCAVATION WILL BE PERFORMED WITHIN 24" OF WILLIAMS PIPELINES OR RELATED FACILITIES. WILLIAMS ONSITE REPRESENTATIVE MAY REQUIRE HAND DIGGING AT A DISTANCE GREATER THAN 24".
- WHEN A BACKHOE IS USED FOR EXCAVATION, THE BUCKET TEETH SHOULD BE CURLED UNDER EACH TIME THE BUCKET IS BROUGHT BACK INTO THE DITCH TO REDUCE THE CHANCE OF THE TEETH CONTACTING THE PIPELINE. SIDE CUTTERS MUST BE REMOVED FROM ALL BUCKETS. AT THE DISCRETION OF WILLIAMS ONSITE REPRESENTATIVE, A BAR MAY HAVE TO BE WELDED ACROSS THE BUCKET TEETH.
- NO MECHANICAL EXCAVATION MAY BE PERFORMED BY REACHING OVER ANY WILLIAMS FACILITIES.
- PRIOR TO ANY PLOWING OR RIPPING OF SOIL ON THE RIGHT OF WAY, PARTICULARLY IN ASSOCIATION WITH AGRICULTURAL ACTIVITIES, PLANS SHOULD BE REVIEWED WITH YOUR LOCAL WILLIAMS REPRESENTATIVE TO ENSURE PROPER COVER EXISTS. NO VIBRATORY PLOWS ARE PERMITTED TO BE USED ON THE WILLIAMS RIGHT OF WAY.

WILLIAMS EASEMENT EQUIPMENT CROSSING

- TO PROTECT WILLIAMS PIPELINES FROM EXTERNAL LOADING, WILLIAMS MUST PERFORM AN ENGINEERING EVALUATION TO DETERMINE THE EFFECTS OF ANY PROPOSED EQUIPMENT USE. MATS, TIMBER BRIDGES, OR OTHER PROTECTIVE MATERIALS DEEMED NECESSARY BY WILLIAMS WILL BE PLACED OVER WILLIAMS FACILITIES FOR THE DURATION OF ANY LOADING. PROTECTIVE MATERIALS WILL BE PURCHASED, PLACED, AND REMOVED AT NO COST TO WILLIAMS. THE RIGHT OF WAY MUST BE RETURNED TO ITS ORIGINAL CONDITION.
- WILLIAMS MAY REQUIRE TEMPORARY MARKINGS TO IDENTIFY AREAS WHERE EQUIPMENT USE IS AUTHORIZED.
- NO VIBRATORY EQUIPMENT IS PERMITTED WITHIN THE LIMITS OF, OR IN CLOSE PROXIMITY TO, THE WILLIAMS RIGHT OF WAY.

APPROVED
 BY *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE **04/08/2024**

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mcb-ARC

architect
MGRANAHAN ARCHITECTS

civil engineer
AHBL

landscape design
AHBL

electrical engineer
HARGIS ENGINEERS

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

Building Planning
Engineering Public Works
Fire Traffic

WILLIAM J. FIERS
 WILLIAM OF WASHINGTON
 41803
 PROFESSIONAL ENGINEER
 03/14/2024

project
PUYALLUP PARKING EXPANSION -
HEP PARKING LOT

client
PIERCE COLLEGE

location
PUYALLUP, WA

state project number
2020-5461(5-1)

Project No. 2012.000

GENERAL NOTES AND DETAILS

issued 15 MAR 24

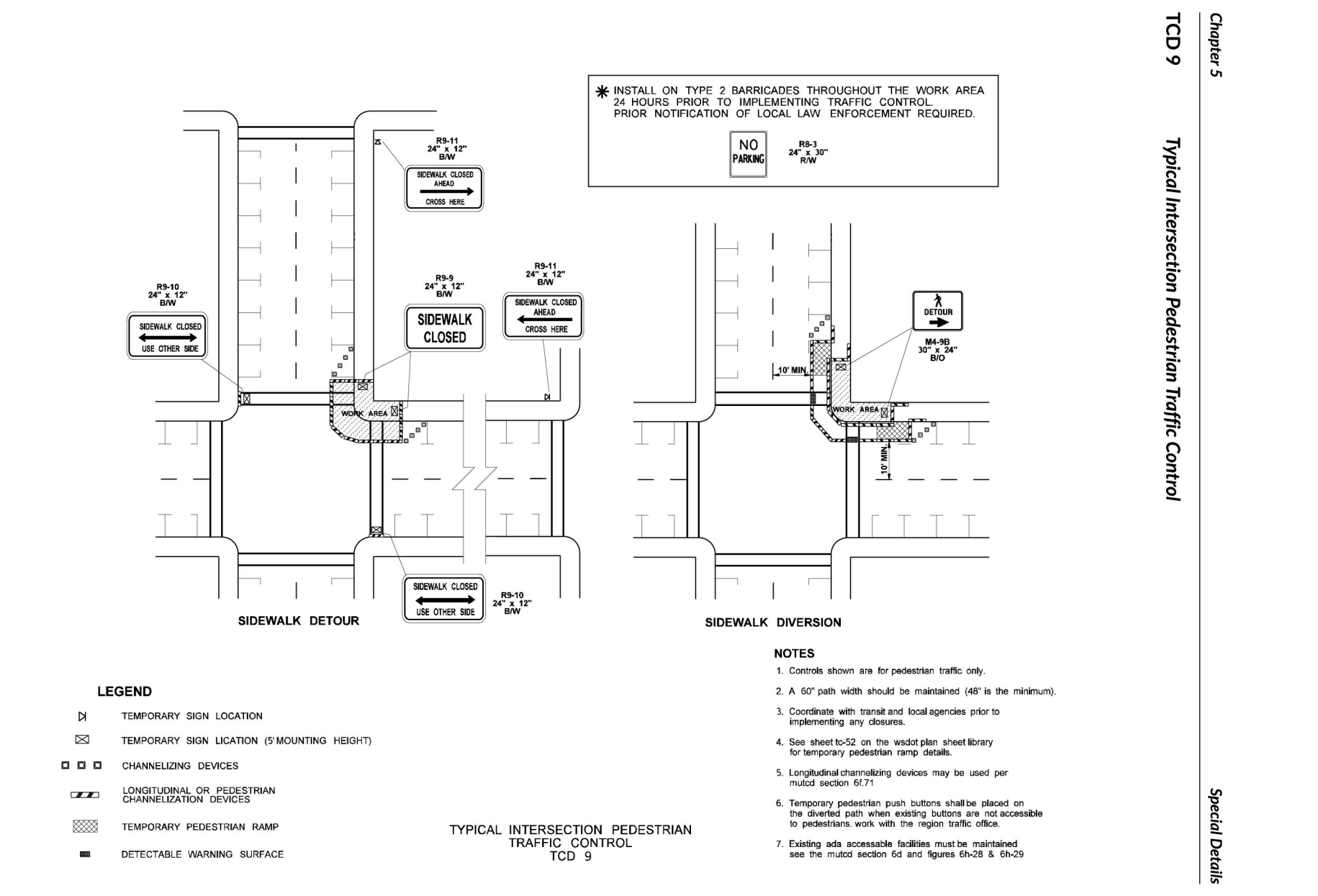
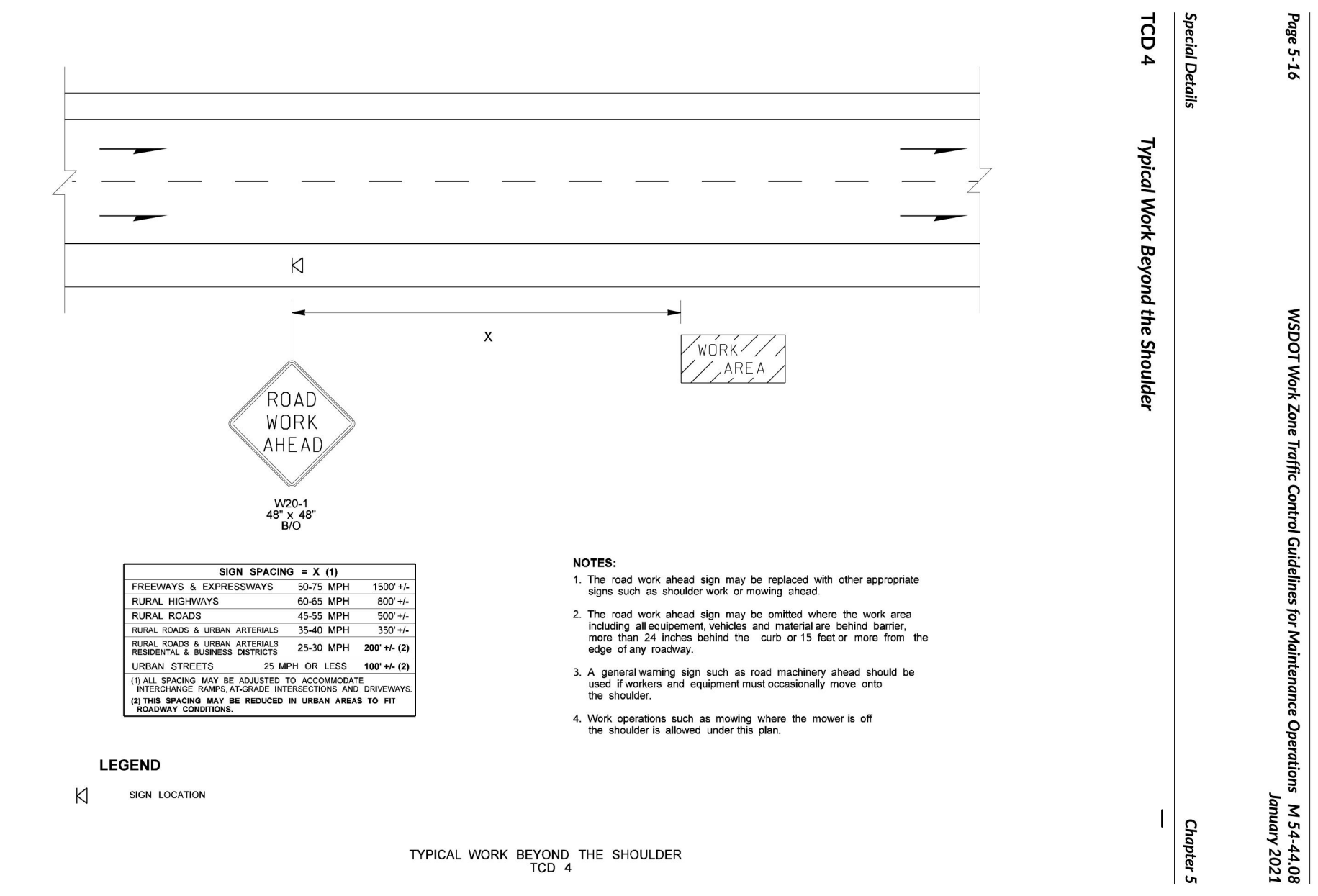
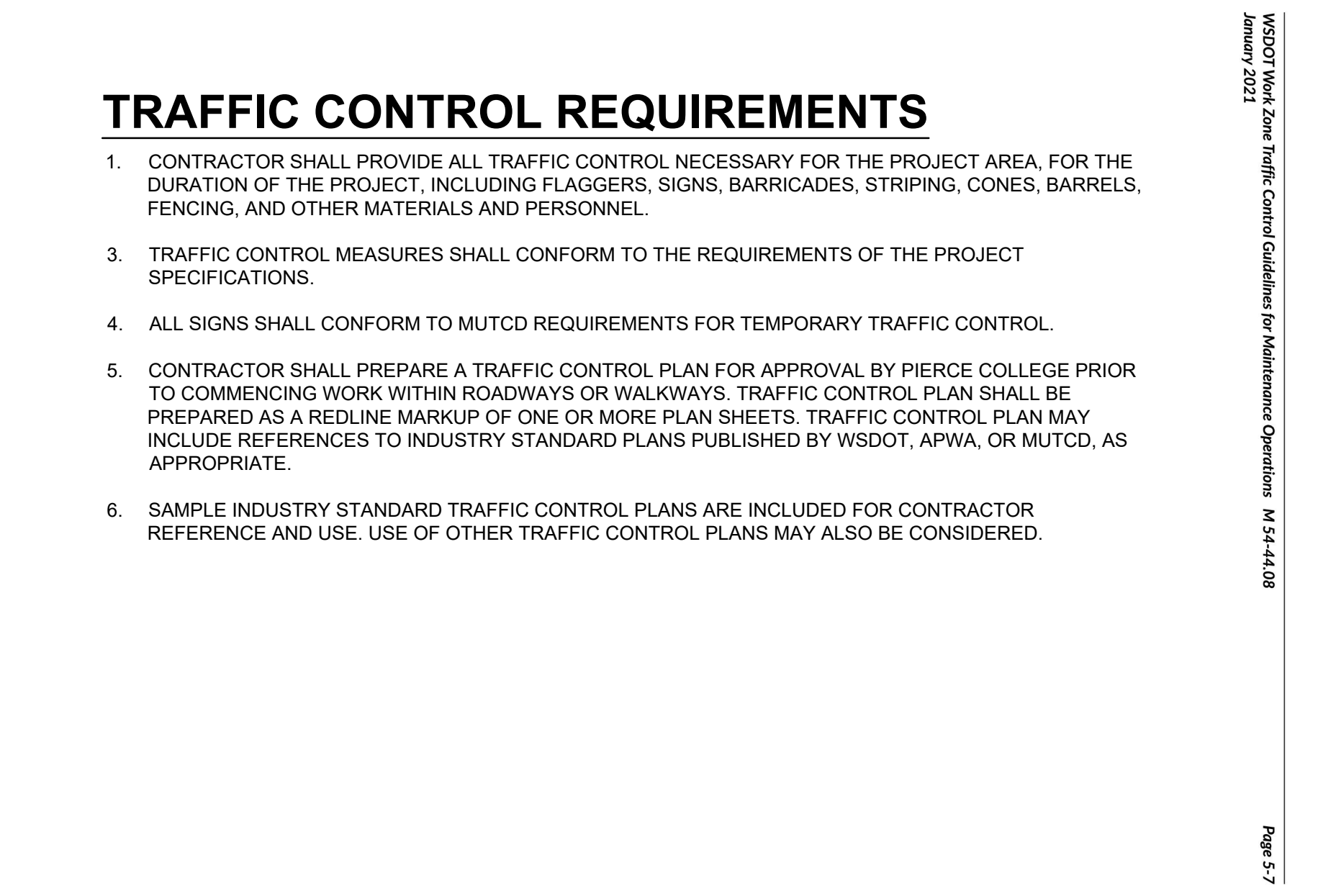
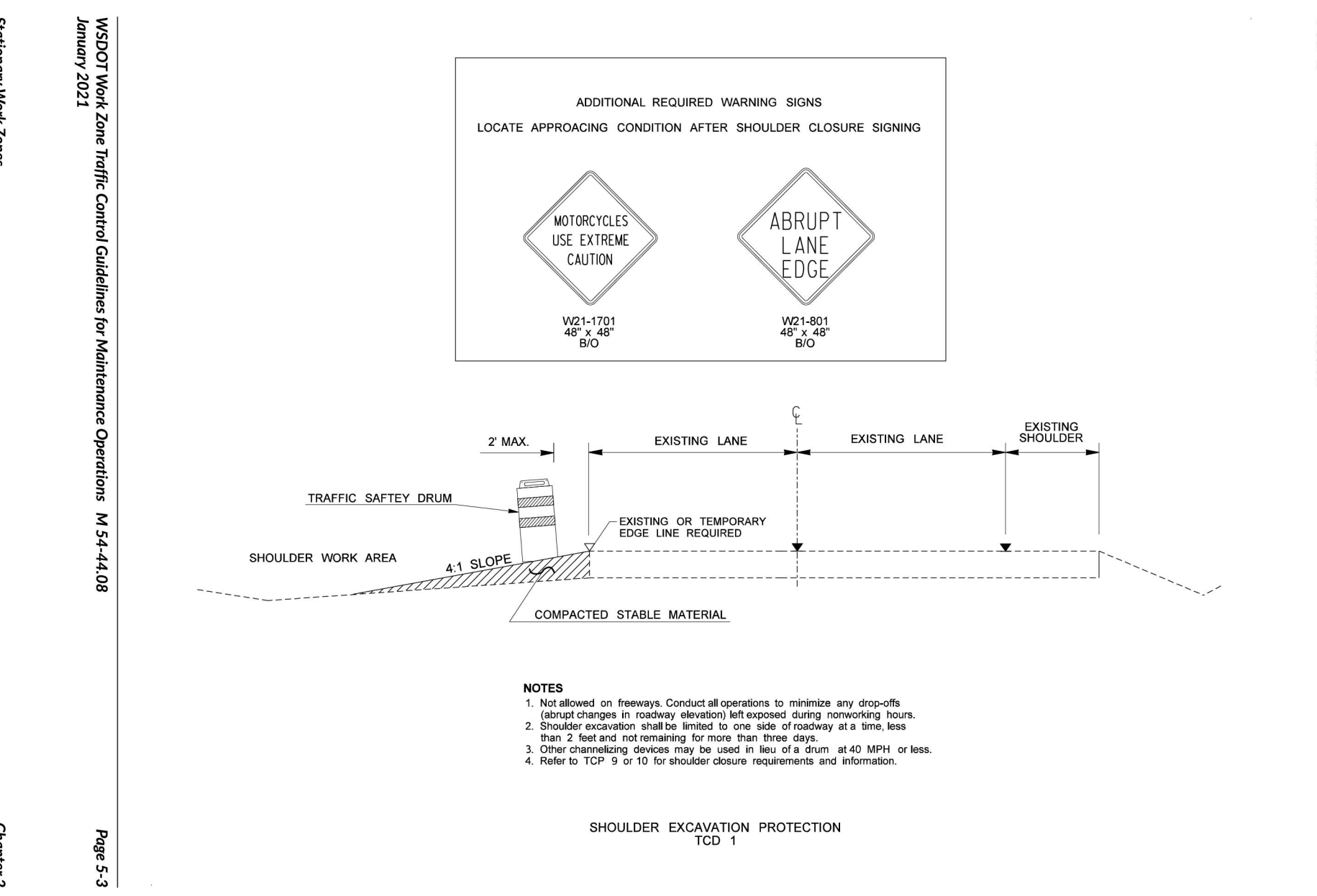
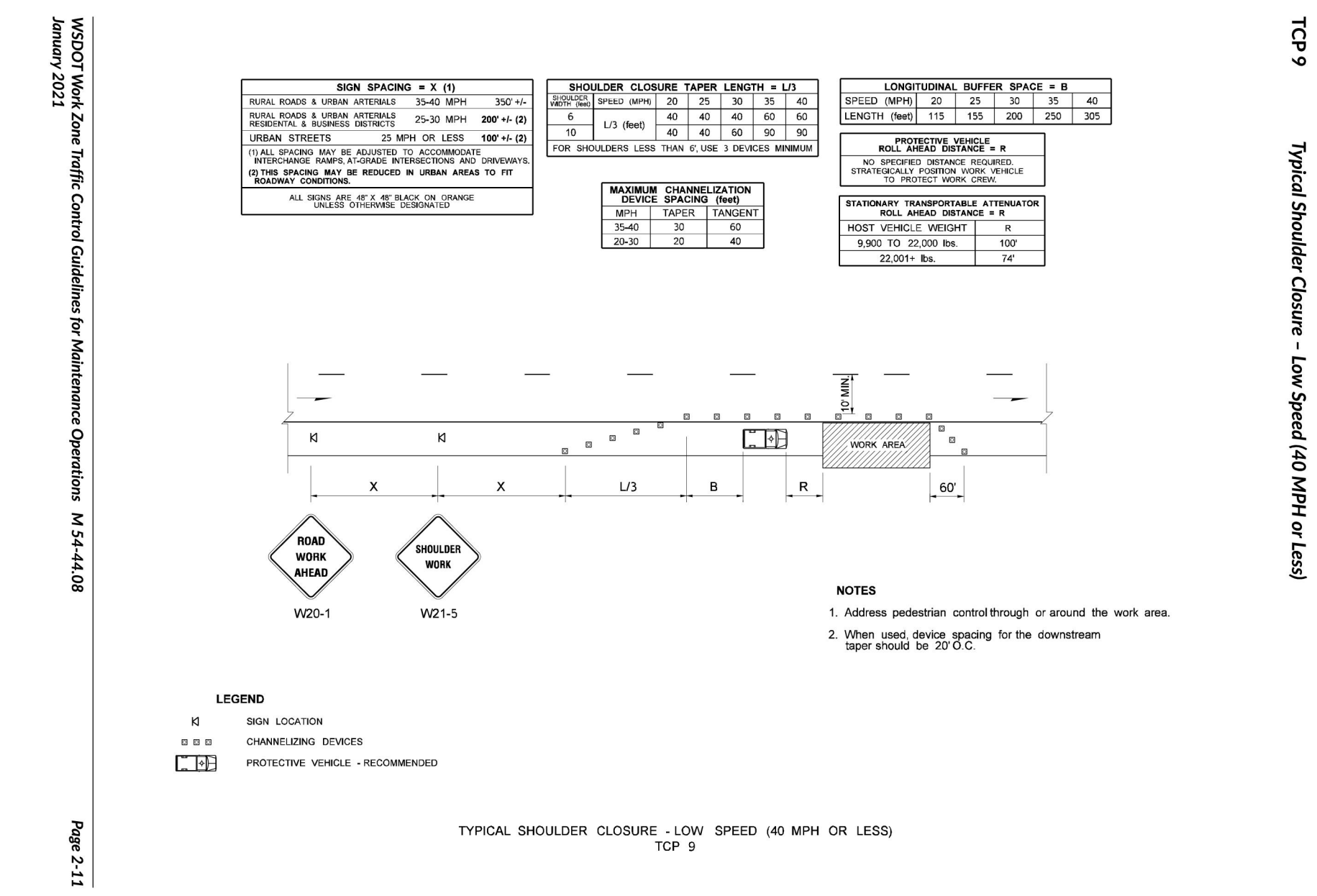
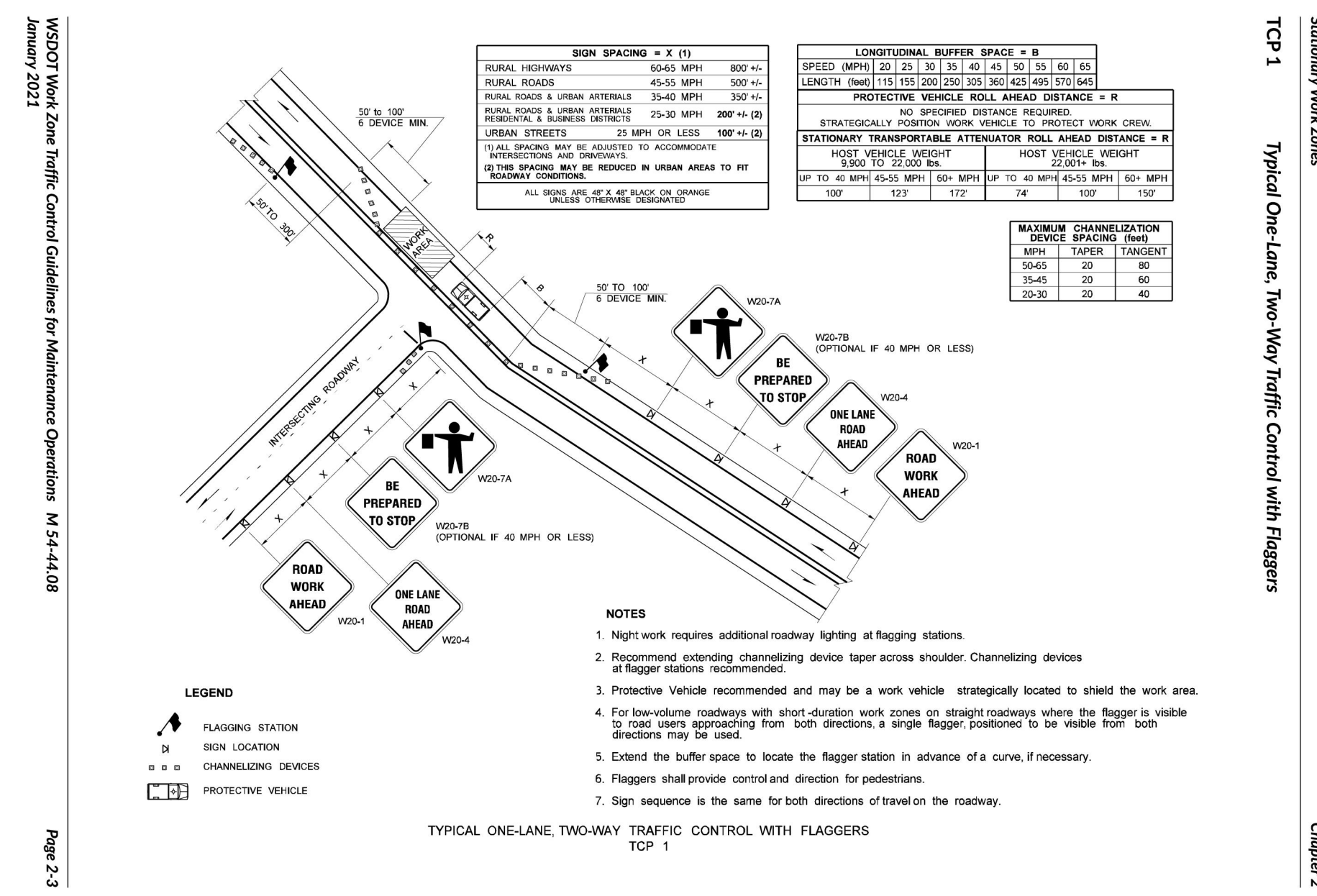
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C Hovde

checked
W Fierst

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C1.5



TRAFFIC CONTROL REQUIREMENTS

- CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL NECESSARY FOR THE PROJECT AREA, FOR THE DURATION OF THE PROJECT, INCLUDING FLAGGERS, SIGNS, BARRICADES, STRIPING, CONES, BARRELS, FENCING, AND OTHER MATERIALS AND PERSONNEL.
- TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
- ALL SIGNS SHALL CONFORM TO MUTCD REQUIREMENTS FOR TEMPORARY TRAFFIC CONTROL.
- CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR APPROVAL BY PIERCE COLLEGE PRIOR TO COMMENCING WORK WITHIN ROADWAYS OR WALKWAYS. TRAFFIC CONTROL PLAN SHALL BE PREPARED AS A REDLINE MARKUP OF ONE OR MORE PLAN SHEETS. TRAFFIC CONTROL PLAN MAY INCLUDE REFERENCES TO INDUSTRY STANDARD PLANS PUBLISHED BY WSDOT, APWA, OR MUTCD, AS APPROPRIATE.
- SAMPLE INDUSTRY STANDARD TRAFFIC CONTROL PLANS ARE INCLUDED FOR CONTRACTOR REFERENCE AND USE. USE OF OTHER TRAFFIC CONTROL PLANS MAY ALSO BE CONSIDERED.

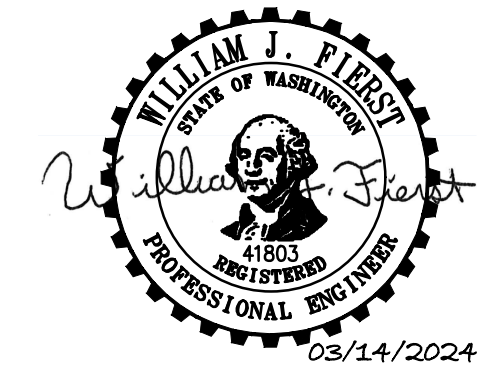
APPROVED
 BY: *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE: 04/08/2024

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

architect_ MCGRANAHAN ARCHITECTS
 civil engineer_ AHBL
 landscape design_ AHBL
 electrical engineer_ HARGIS ENGINEERS

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



GENERAL NOTES

- SEE LANDSCAPE PLANS FOR ADDITIONAL SITE FEATURES.
- FOR BEDDING AND BACKFILL PIPE TRENCHES SEE DETAIL (3) C4.1
- ALL STORM PIPE SHALL BE LINED CORRUGATED POLYETHYLENE PIPE UNLESS OTHERWISE NOTED.
- SPOT ELEVATIONS AND CONTOURING SHOWN REPRESENT FINISH GRADE ELEVATIONS. SUBGRADE ELEVATIONS WILL VARY DEPENDING UPON TYPE OF SURFACING REQUIRED. REFER TO SPECIFICATIONS FOR TOPSOIL AND MULCH DEPTHS.
- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRADES PRIOR TO CONSTRUCTION ACTIVITIES. CONTACT ENGINEER IF PROPOSED GRADES ARE BELIEVED TO BE IN ERROR.
- FINISHED GRADES ARE INDICATED. CONTRACTOR SHALL EXCAVATE AND FILL TO ACHIEVE PROPER SUBGRADES.
- ALL FILL MATERIALS SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- ADJUST EXISTING UTILITY LIDS FOR FINISHED GRADE.
- IT IS ASSUMED ALL FL ELEVATIONS ARE ADJACENT TO A 0.5' CURB UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE TO STORMWATER FEATURES AND ENSURE NO PONDING OCCURS.
- FOR TYPE 1 CATCH BASINS, SEE DETAILS (1) C4.1, (2) C4.1
- FOR TYPE 2 CATCH BASINS, SEE DETAIL (4) C4.1

LEGEND

BC	BOTTOM OF CURB ELEVATION
EG	EXISTING GRADE ELEVATION
FG	FINISHED GRADE ELEVATION
FL	FLOW LINE ELEVATION
X.X% OR XX	GRADE/SLOPE
---	EXISTING MAJOR CONTOUR
- - -	EXISTING MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
- - -	PROPOSED MINOR CONTOUR
---	GRADE BREAK
●	STORM DRAINAGE MANHOLE - TYPE 2
■	CATCH BASIN - TYPE 1
■	STORM DRAINAGE CLEANOUT
⊗	DETENTION PIPE ACCESS RISER
○	STORM DRAINAGE PIPING
---	BIORETENTION OUTLINE

KEYNOTES:

- ADJUST EXISTING UTILITY STRUCTURE TO PROPOSED GRADE
- PIPES WITHIN THE WILLIAMS GAS EASEMENT SHALL BE CONSTRUCTED PRIOR TO ORDERING MATERIALS OR STARTING ANY CONSTRUCTION WITHIN LOT A
- THE CONTRACTOR SHALL INSTALL STORM DRAINAGE PIPING AT CROSSING WITH EXISTING UTILITIES PRIOR TO ANY GRADING OPERATIONS OR ORDERING ANY OTHER STORM DRAINAGE MATERIALS. CONTACT THE ENGINEER IF THE NOTED CLEARANCES CANNOT BE OBTAINED. THE CONTRACTOR SHALL ADD TEST LEAD TO PIPE.

project_ PUYALLUP PARKING EXPANSION - HEP PARKING LOT
 client_ PIERCE COLLEGE
 location_ PUYALLUP, WA
 state project number_ 2020-5461(5-1)

Project No. 2012.000
GRADING AND STORM DRAINAGE PLAN AREA A

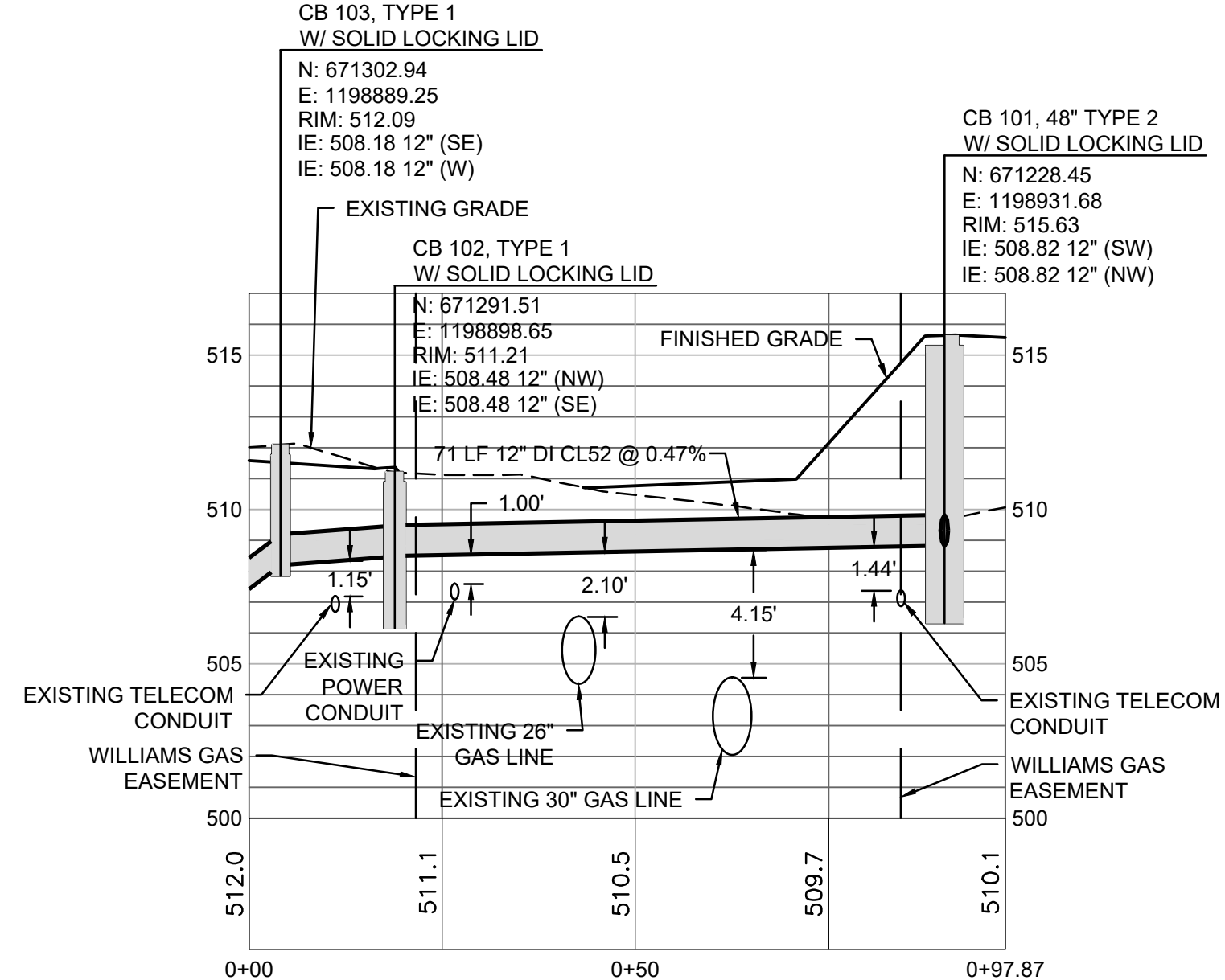
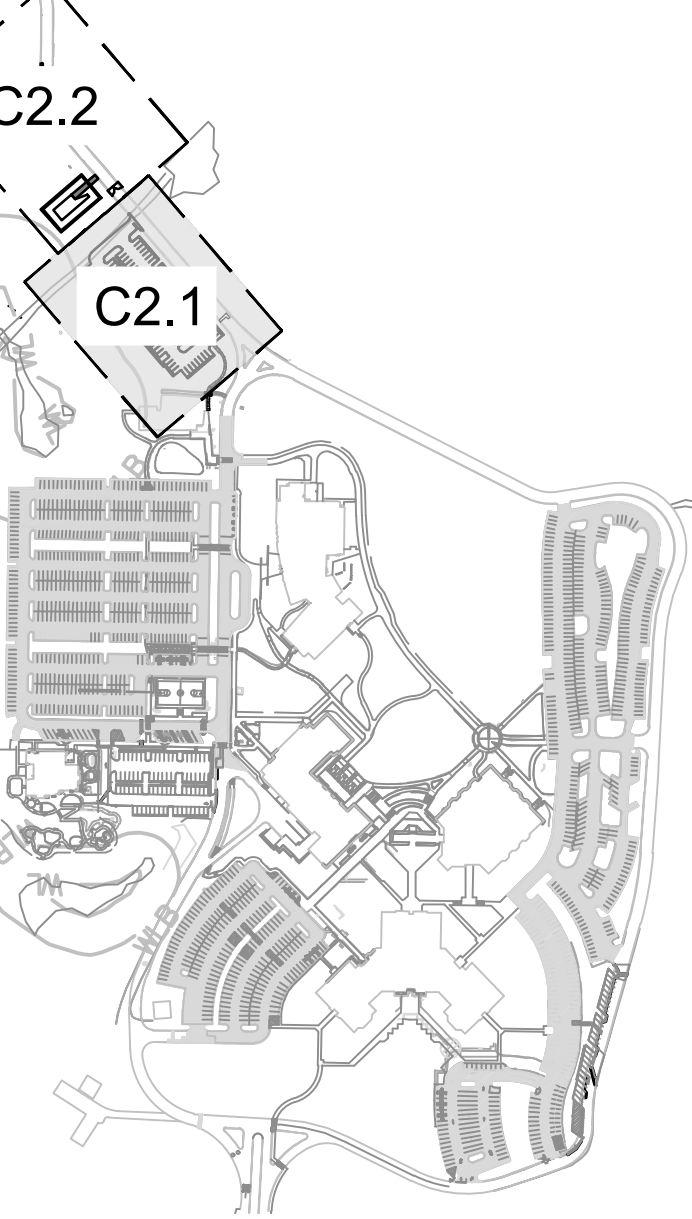
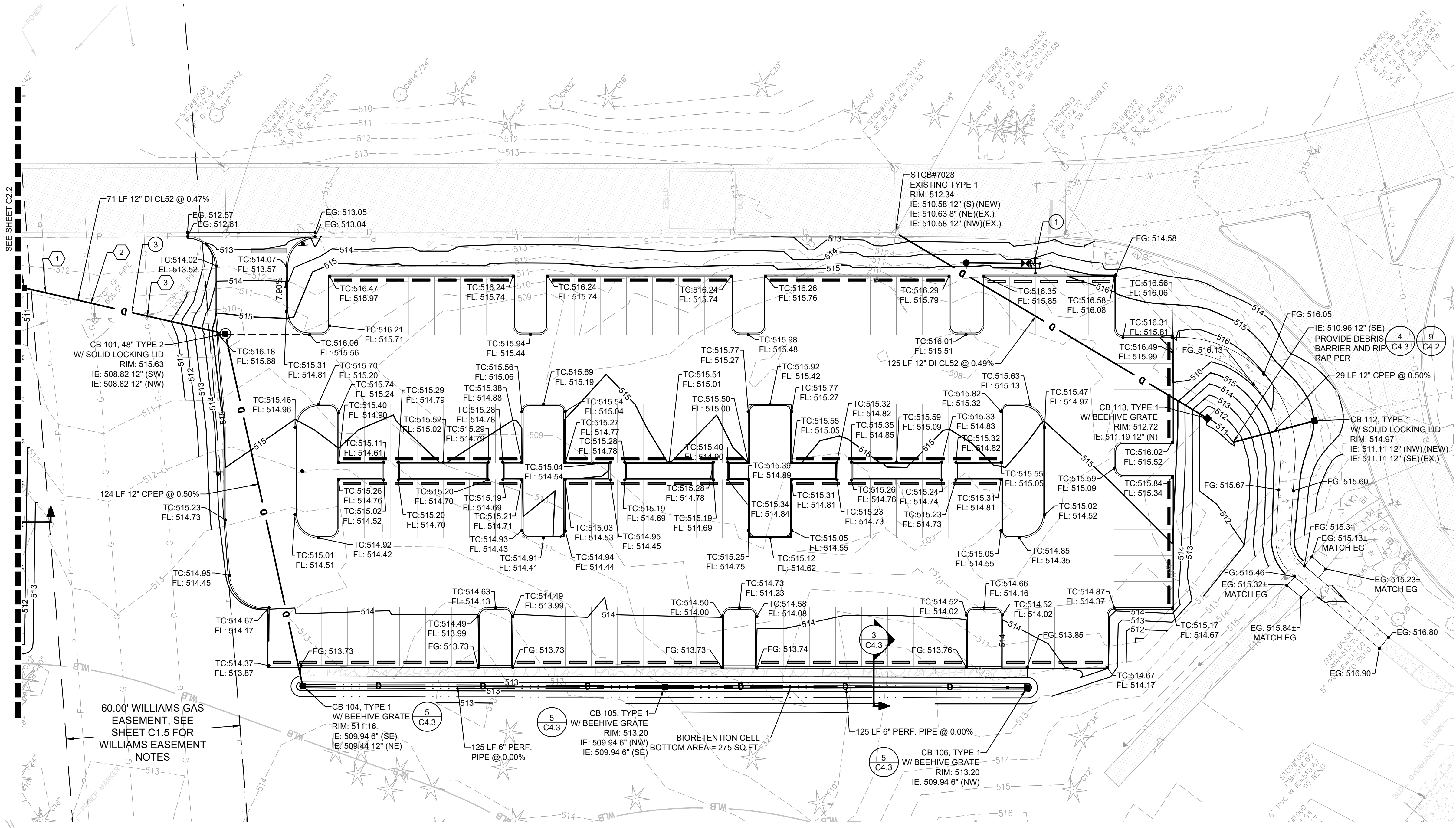
issued_ 15 MAR 24
 BID SET

revision_

drawn_ CHowde

checked_ W Fierst

sheet_ **C2.1**



UTILITY CROSSINGS

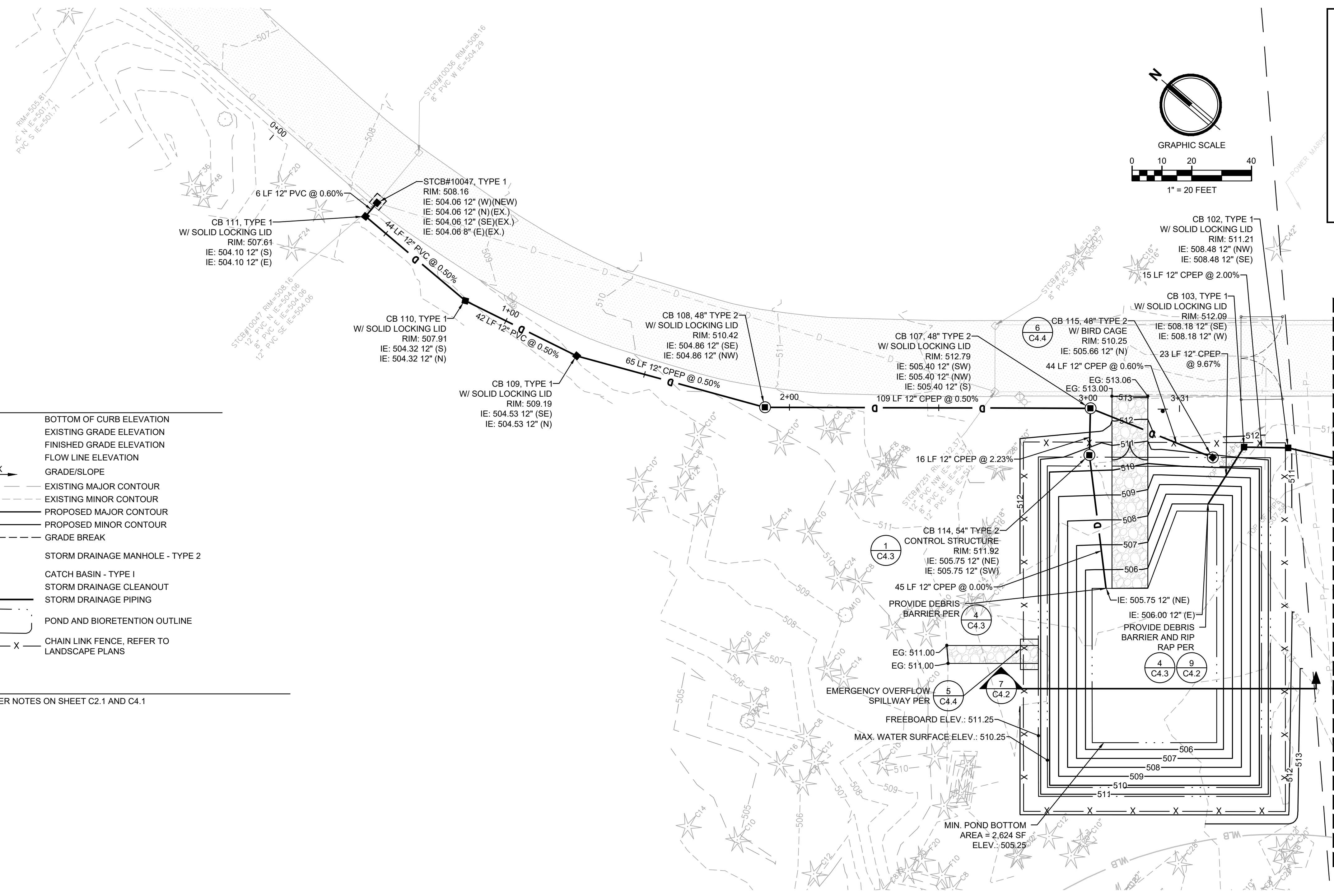
- 12" CPEP STORM POWER CONDUIT CLEARANCE: IE: 508.58, TOP: 507.58 = 1.00'
- 12" CPEP STORM 26" GAS CLEARANCE: IE: 508.61, TOP: 506.51 = 2.10'
- 12" CPEP STORM 30" GAS CLEARANCE: IE: 508.70, TOP: 504.55 = 4.15'

KEY MAP

SCALE: 1" = 400'

Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)

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APPROVED
 BY: *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE: 04/08/2024

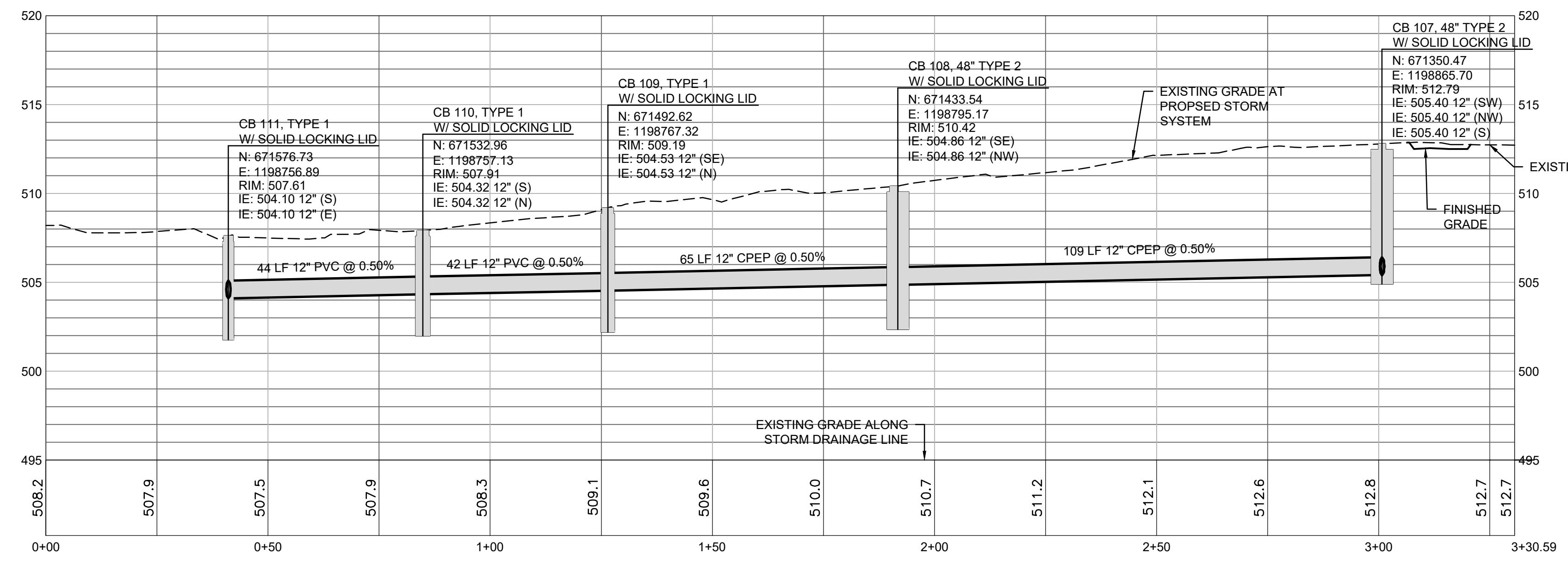
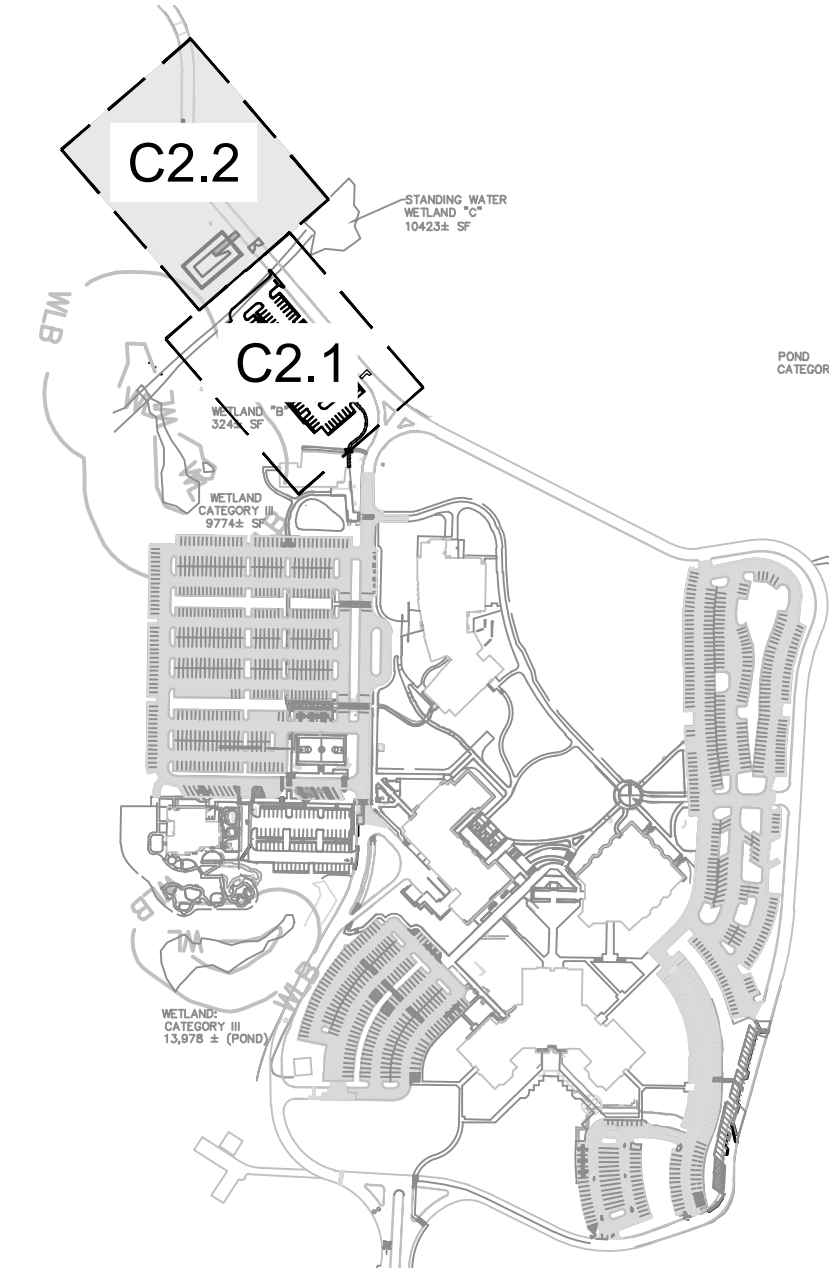
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

LEGEND

BC	BOTTOM OF CURB ELEVATION
EG	EXISTING GRADE ELEVATION
FG	FINISHED GRADE ELEVATION
FL	FLOW LINE ELEVATION
X.X% OR XX	GRADE/SLOPE
---XXX---	EXISTING MAJOR CONTOUR
---XXX---	EXISTING MINOR CONTOUR
---XXX---	PROPOSED MAJOR CONTOUR
---XXX---	PROPOSED MINOR CONTOUR
---	GRADE BREAK
○	STORM DRAINAGE MANHOLE - TYPE 2
■	CATCH BASIN - TYPE 1
●	STORM DRAINAGE CLEANOUT
—D—	STORM DRAINAGE PIPING
—D—	POND AND BIORETENTION OUTLINE
X—X—X	CHAIN LINK FENCE, REFER TO LANDSCAPE PLANS

NOTES

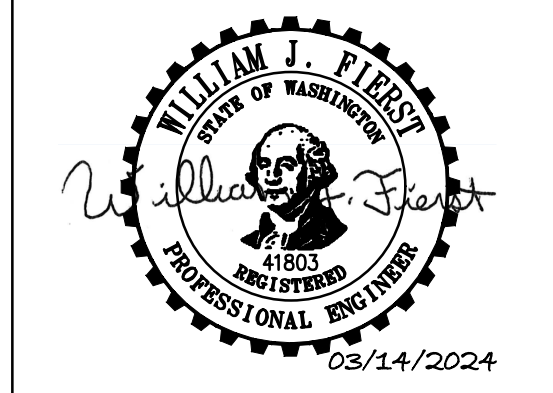
- SEE STORMWATER NOTES ON SHEET C2.1 AND C4.1



architect_ MCGRANAHAN ARCHITECTS
 civil engineer_ AHBL
 landscape design_ AHBL
 electrical engineer_ HARGIS ENGINEERS

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

Building	Planning
Engineering	Public Works
Fire	Traffic



project_ PUYALLUP PARKING EXPANSION - HEP PARKING LOT
 client_ PIERCE COLLEGE
 location_ PUYALLUP, WA
 state project number_ 2020-5461(5-1)

Project No. 2012.000
GRADING AND STORM DRAINAGE PLAN AREA B

issued_ 15 MAR 24
 BID SET
 revision_
 drawn_ CHowde
 checked_ W Fierst

sheet_ **C2.2**

KEY MAP
 SCALE: 1" = 400'

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Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)

NOTES

1. ALL PAVING SHALL BE COMPLETE BY OCTOBER 1ST.
2. PAVEMENT PATCHES PER 5
C4.2

KEYNOTES:

- 1 2' X 2' X 7-INCH THICK CONCRETE PAD FOR EMERGENCY CALL BOX
- 2 STOP SIGN; FOLLOW MUTCD R1-1 STANDARDS; SIGN SHALL BE HIGH INTENSITY PRISMATIC MOUNTING HEIGHT = 6FT
- 3 FIRE LANE MARKING PER 4
C4.4
- 4 NO PARKING SIGN; FOLLOW MUTCD R8-3 STANDARDS MOUNTING HEIGHT = 6FT
- 5 STORMWATER FACILITY SIGNAGE PER 2
C4.3

LEGEND:

- FENCING - REFER TO LANDSCAPE ARCHITECTS DRAWINGS. 6
L3.2 7
L3.2
- ASPHALT PAVEMENT - STANDARD DUTY 2
C4.2
- CEMENT CONCRETE - STANDARD DUTY 3
C4.2
- GRAVEL SURFACING 6
C4.2
- CEMENT CONCRETE WHEEL STOP 4
C4.2
- CHANGE IN CURB TYPE / END CURB
- EC CONCRETE EXTRUDED CURB 1
C4.2
- FC 0" HEIGHT FLUSH CURB
- VC VERTICAL CURB 8
C4.2
- W WATER PIPE 1
C4.4
- GATE VALVE
- TEE TEE
- THRUST BLOCKING PER 2
C4.4
- FIRE HYDRANT ASSEMBLY PER 3
C4.4

APPROVED
William J. Fierst

BY: CITY OF PUYALLUP
ENGINEERING SERVICES
DATE: 04/08/2024

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

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

Building	Planning
Engineering	Public Works
Fire	Traffic



project: PUYALLUP PARKING EXPANSION - HEP PARKING LOT
client: PIERCE COLLEGE
location: PUYALLUP, WA
state project number: 2020-5461(5-1)

Project No. 2012.000
**PAVING, UTILITY,
AND HORIZONTAL
CONTROL PLAN**

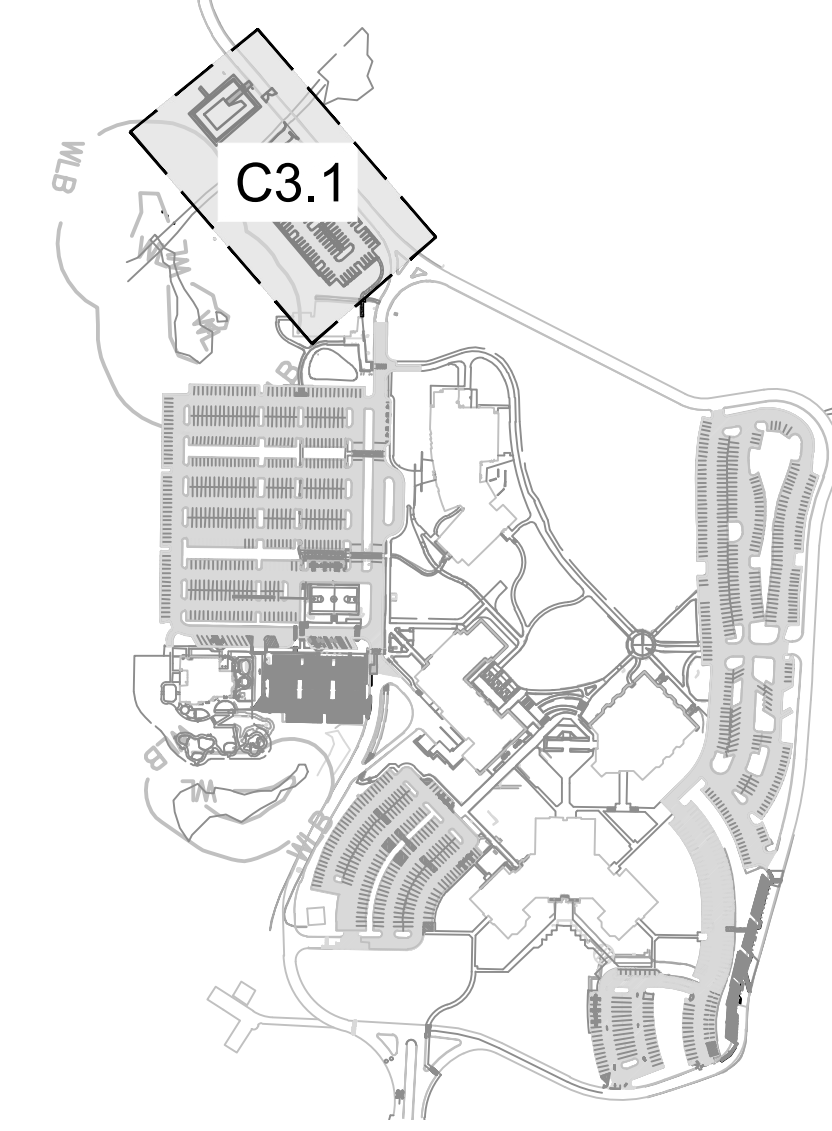
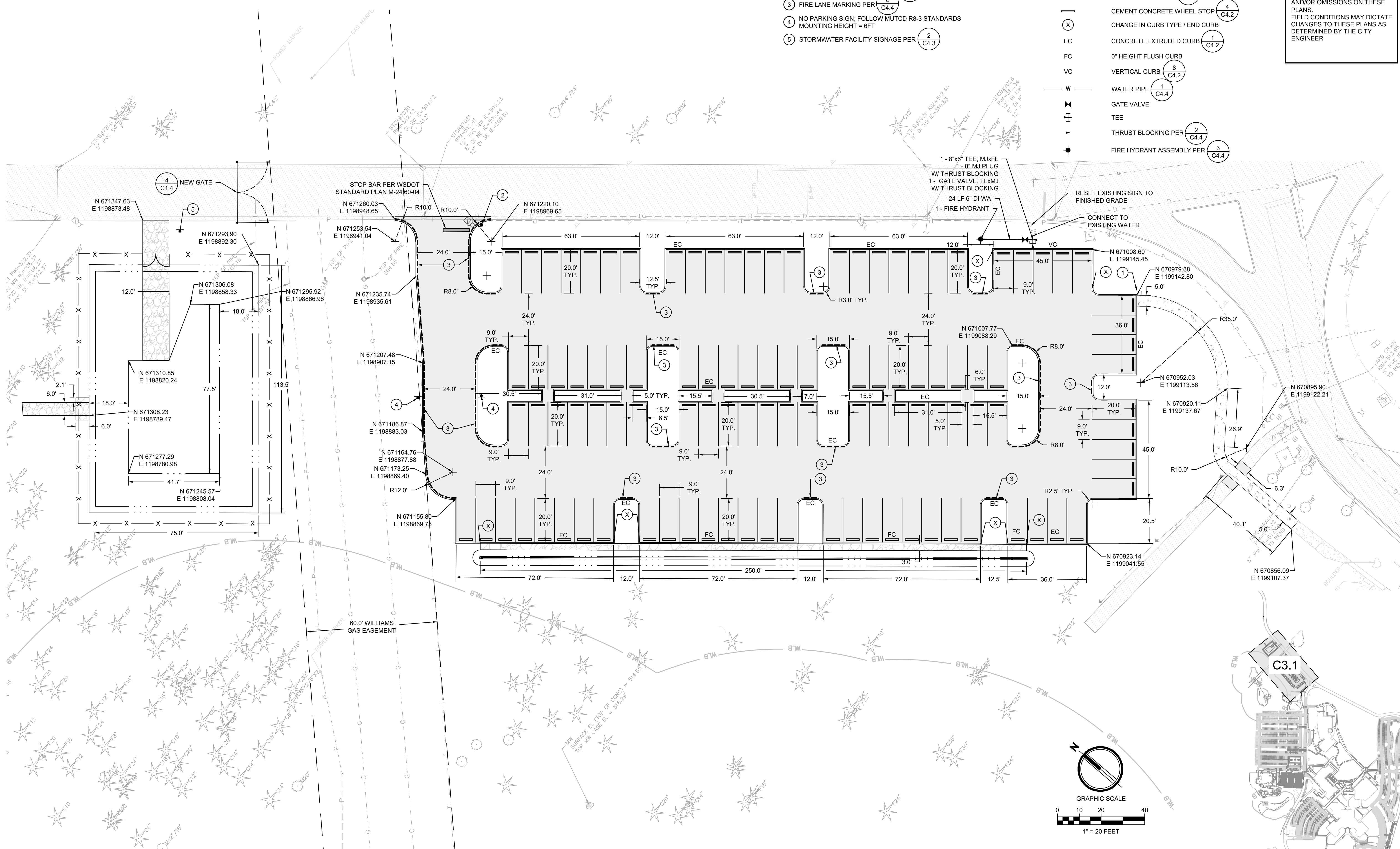
issued: 15 MAR 24
BID SET

revision:

drawn: C.Hovde

checked: W.Fierst

sheet: **C3.1**



Call Before You Dig. 8-1-1 or 1-800-424-5555 Underground Service (USA)

KEY MAP
SCALE: 1" = 400'

NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E. (PIPE INVERT).
3. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
4. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEED 1/2" PER FOOT.
5. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
6. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB. IF A RAISED EDGE PLACE MARKER ON THE WEDGE. IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE I (AREA DRAIN)

DESIGNED BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY LINDA LAM	REVISED BY LINDA LAM	CITY STANDARD 02.01.02
FILE NAME C:\WORK\COMM\STDCITY\2009\2009.01.02	DATE APPROVED 08/01/09	DATE REVISION 08/01/09	SCALE N/A	

1 CATCH BASIN TYPE 1
NOT TO SCALE

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

DESIGNED BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY LINDA LAM	REVISED BY LINDA LAM	CITY STANDARD 02.01.05
FILE NAME C:\WORK\COMM\STDCITY\2009\2009.01.05	DATE APPROVED 08/01/09	DATE REVISION 08/01/09	SCALE N/A	

2 CATCH BASIN FRAME AND GRATE
NOT TO SCALE

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

PIPE TRENCHING BEDDING AND BACKFILL

DRAWN BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY LINDA LAM	REVISED BY LINDA LAM	CITY STANDARD 06.01.01
FILE NAME C:\WORK\COMM\STDCITY\2009\2009.01.01	DATE APPROVED 08/01/09	DATE REVISION 08/01/09	SCALE N/A	

3 PIPE TRENCHING BEDDING AND BACKFILL
NOT TO SCALE

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SOIL AMENDMENT AND DEPTH

DRAWN BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY LINDA LAM	REVISED BY LINDA LAM	CITY STANDARD 01.02.06a
FILE NAME C:\WORK\COMM\STDCITY\2009\2009.01.06a	DATE APPROVED 08/01/09	DATE REVISION 08/01/09	SCALE N/A	

5 SOIL AMENDMENT AND DEPTH
NOT TO SCALE

CITY OF PUYALLUP STORMWATER NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
11. CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.

13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30-20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30-30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
 - a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - b. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
 - d. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
 - e. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3-FEET.
15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM SEWER MANHOLE

DRAWN BY LINDA LAM	CHECKED BY LINDA LAM	APPROVED BY LINDA LAM	REVISED BY LINDA LAM	CITY STANDARD 02.01.01
FILE NAME C:\WORK\COMM\STDCITY\2009\2009.01.01	DATE APPROVED 08/01/09	DATE REVISION 08/01/09	SCALE N/A	

4 STORM SEWER MANHOLE
NOT TO SCALE

APPROVED
BY: *Linda Lam*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE: 04/08/2024

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mcb-ARC

architect
MCGRANAHAN ARCHITECTS

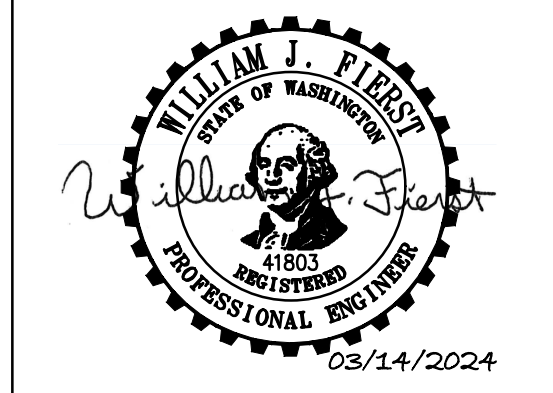
civil engineer
AHBL

landscape design
AHBL

electrical engineer
HARGIS ENGINEERS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



project
PUYALLUP PARKING EXPANSION - HEP PARKING LOT

client
PIERCE COLLEGE

location
PUYALLUP, WA

state project number
2020-5461(5-1)

Project No. 2012.000
NOTES AND DETAILS

issued
BID SET 15 MAR 24

revision

drawn
C Hovde

checked
W Fierst

sheet
C4.1

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DATE: March 13, 2024 FILENAME: Q:\2020\2200718\10_CIV\CAD\PARKING LOT_Lot A Redesign\2200718-SH-DETAILS.dwg

APPROVED
 BY *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE **04/08/2024**

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

architect_
 MGRANAHAN ARCHITECTS

civil engineer_
 AHBL

landscape design_
 AHBL

electrical engineer_
 HARGIS ENGINEERS

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



project_
 PUYALLUP PARKING EXPANSION -
 HEP PARKING LOT

client_
 PIERCE COLLEGE

location_
 PUYALLUP, WA

state project number_
 2020-5461(5-1)

**Project No. 2012.000
 NOTES AND DETAILS**

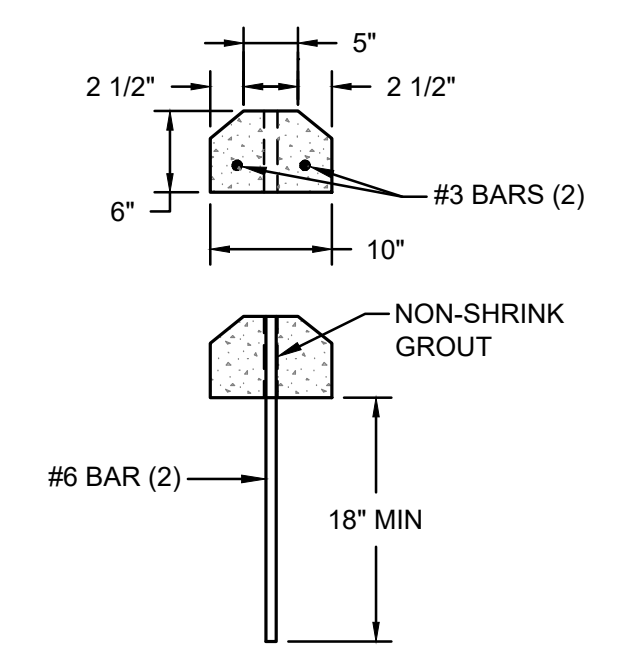
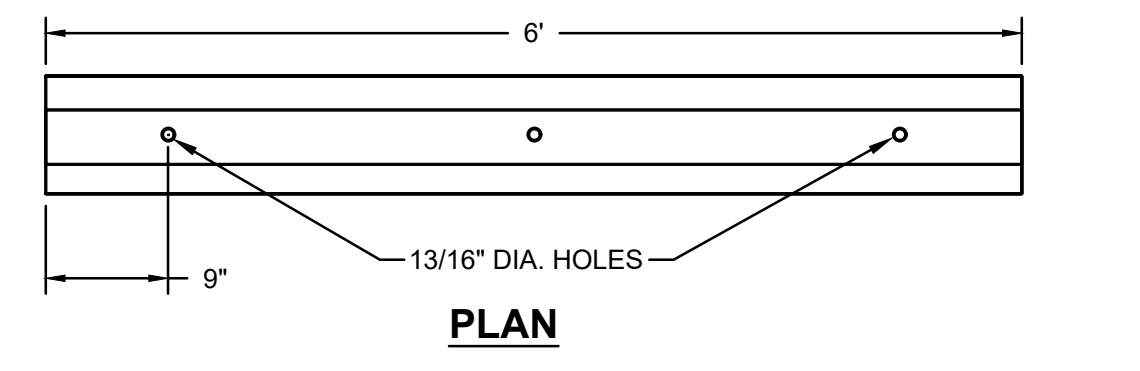
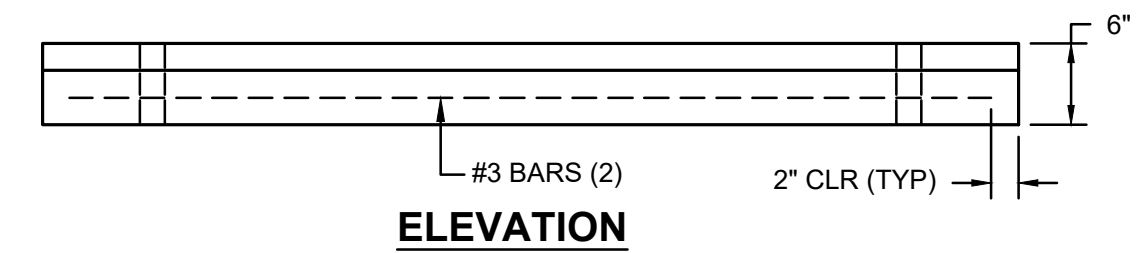
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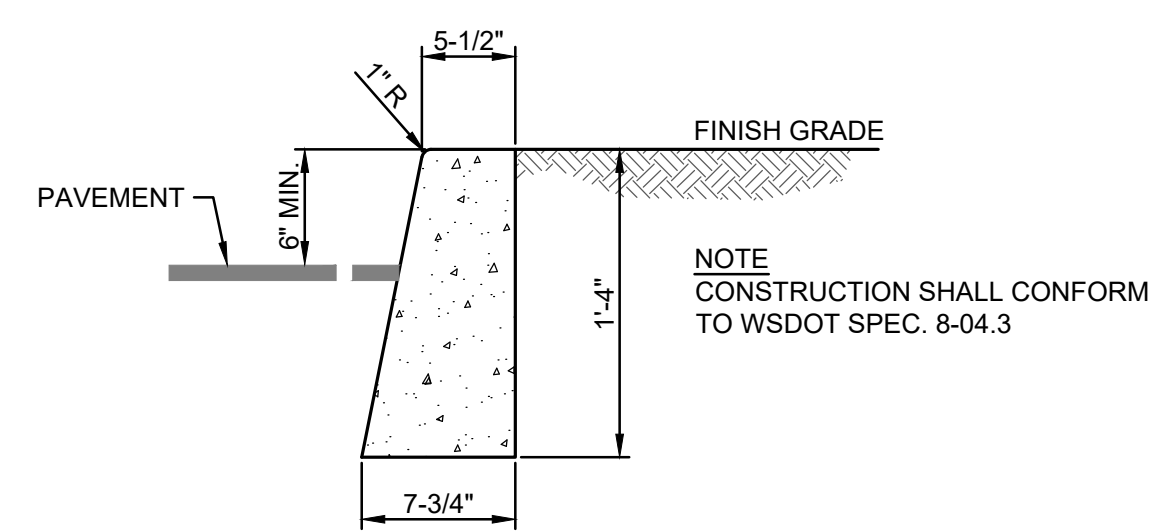
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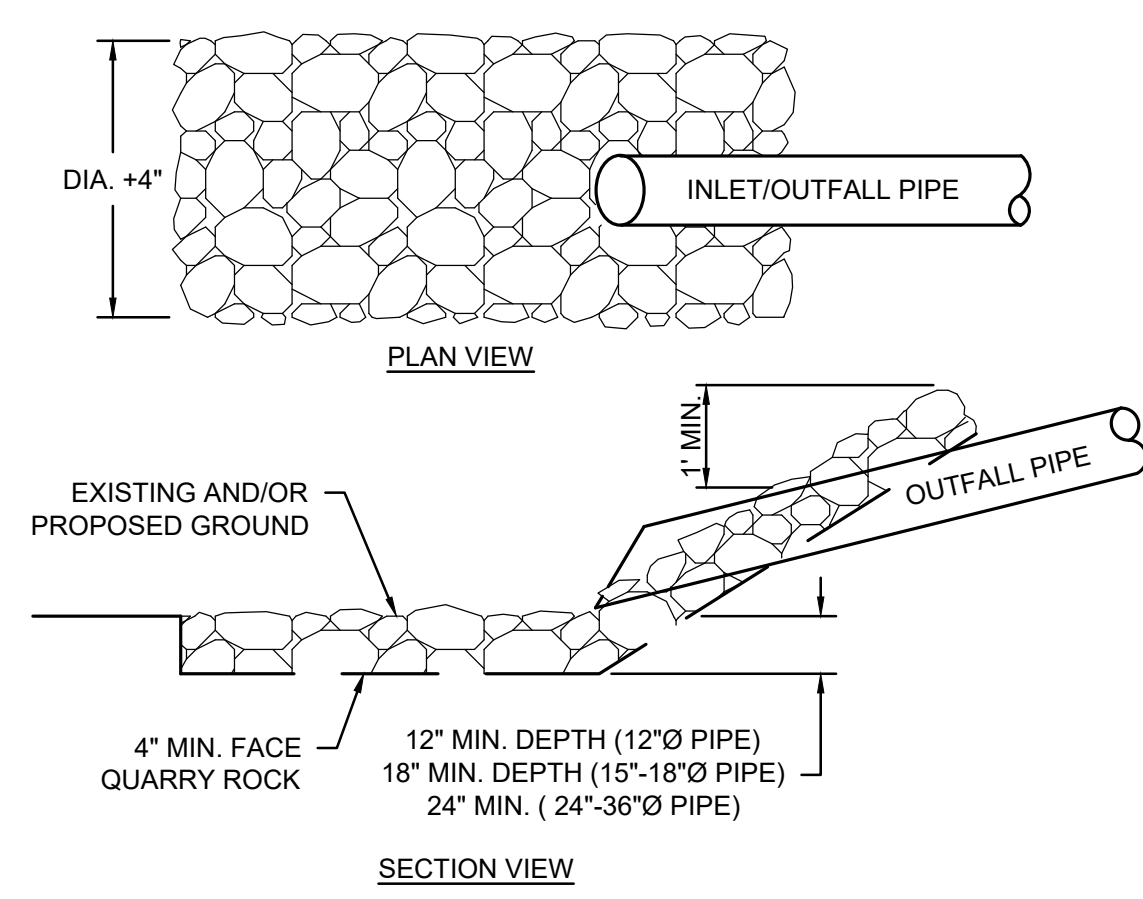
- NOTES:**
- THE NON-SHRINK GROUT USED TO ATTACH THE PRECAST CURB SHALL CONSIST OF 3:1 SAND AND CEMENT GROUT TO A DEPTH OF 1" FROM THE TOP OF THE BUMPER.
 - LOCATIONS FOR WEEPHOLES, AND V-SLOTS SHALL BE IDENTIFIED ON THE DELIVERY ORDER DRAWINGS.
 - CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI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

ATTACHMENT DETAIL

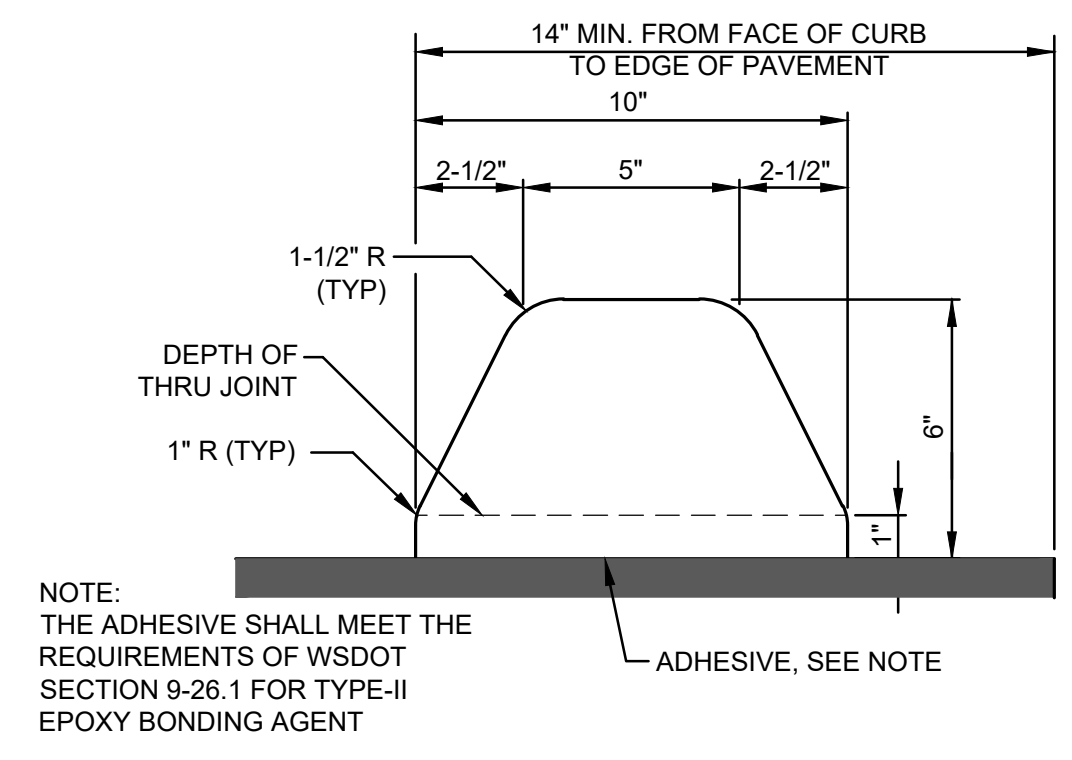
4 WHEEL STOP
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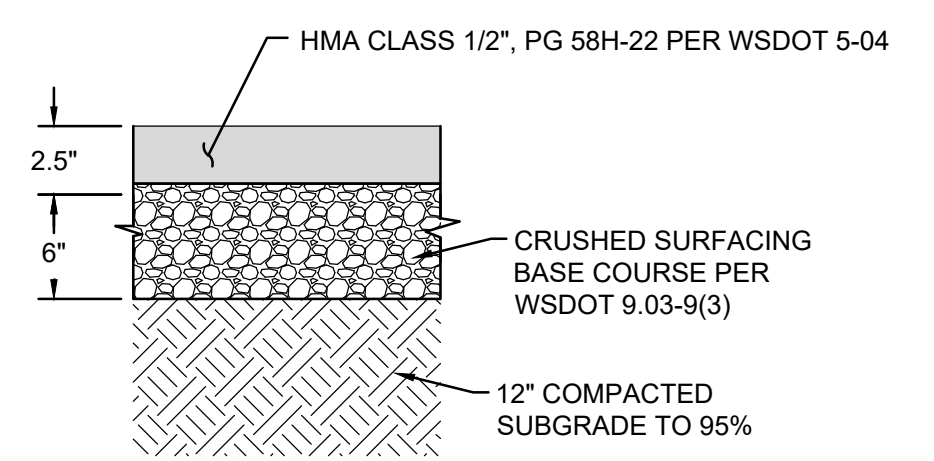
8 VERTICAL CURB
 NOT TO SCALE



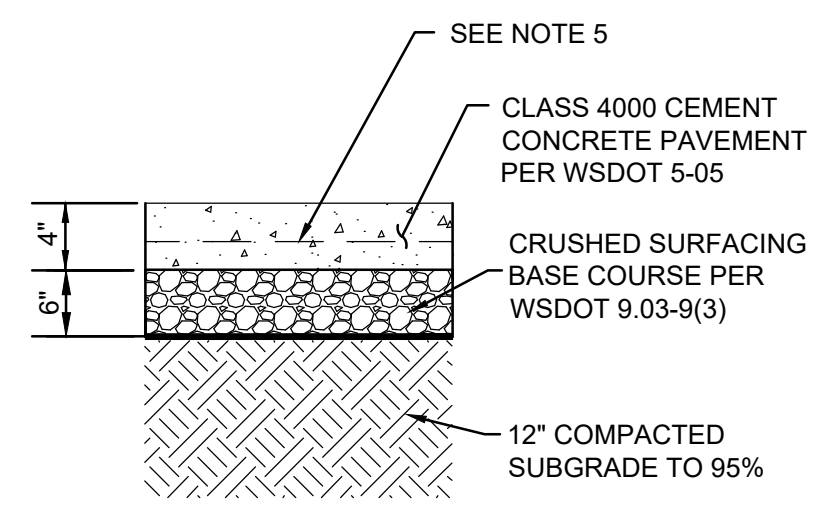
9 RIP RAP OUTFALL PROTECTION
 NOT TO SCALE



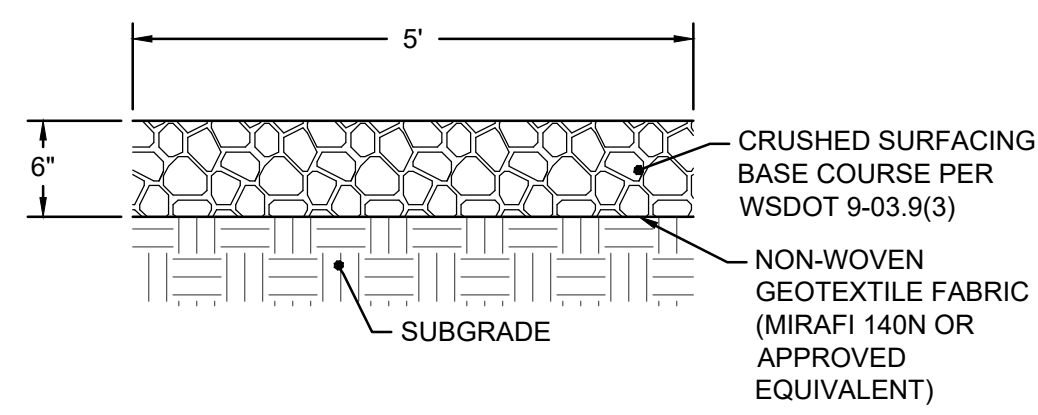
1 EXTRUDED CURB
 NOT TO SCALE



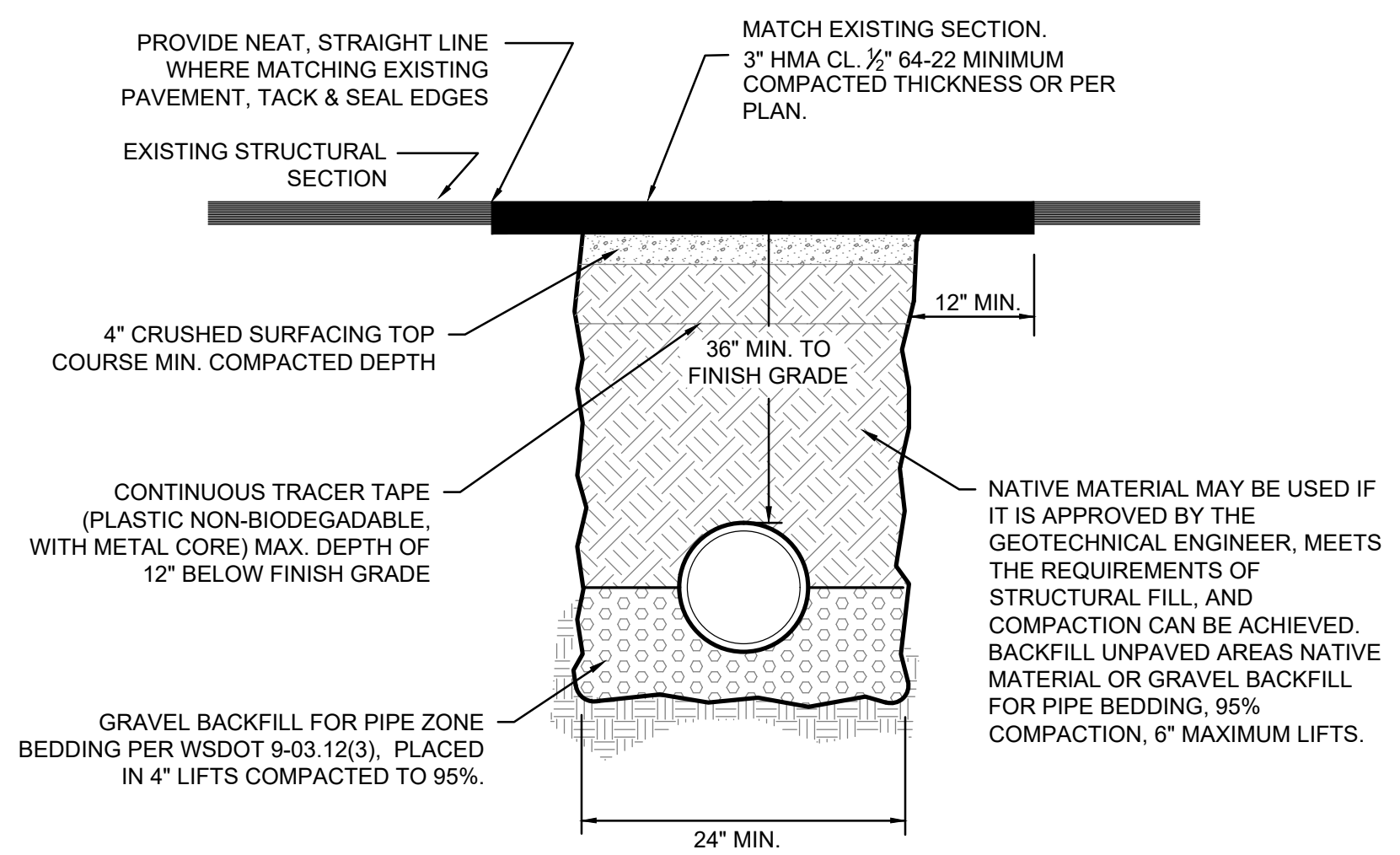
2 ASPHALT SECTION
 NOT TO SCALE



3 CONCRETE SECTION
 NOT TO SCALE

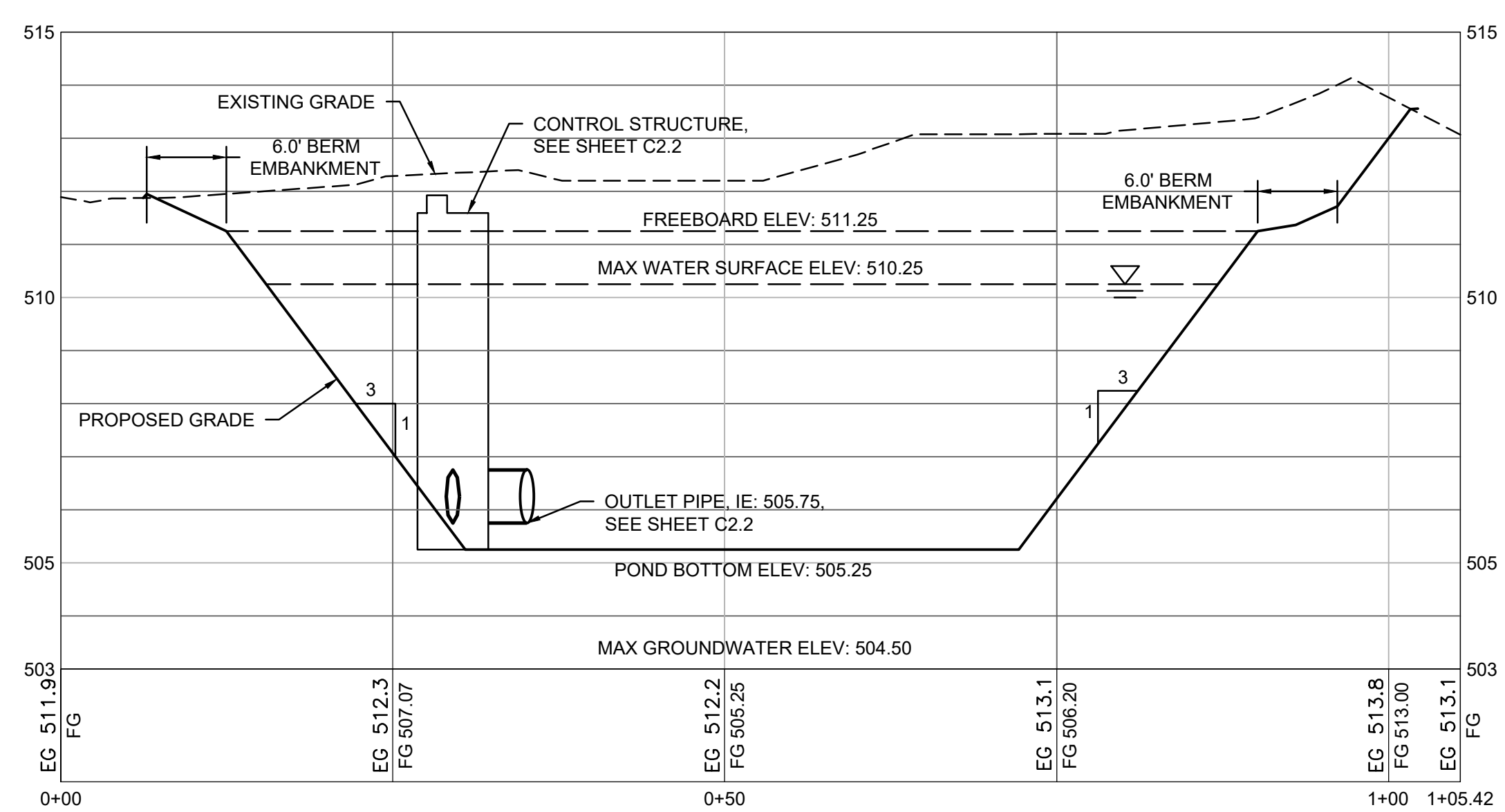


6 GRAVEL SECTION
 NOT TO SCALE

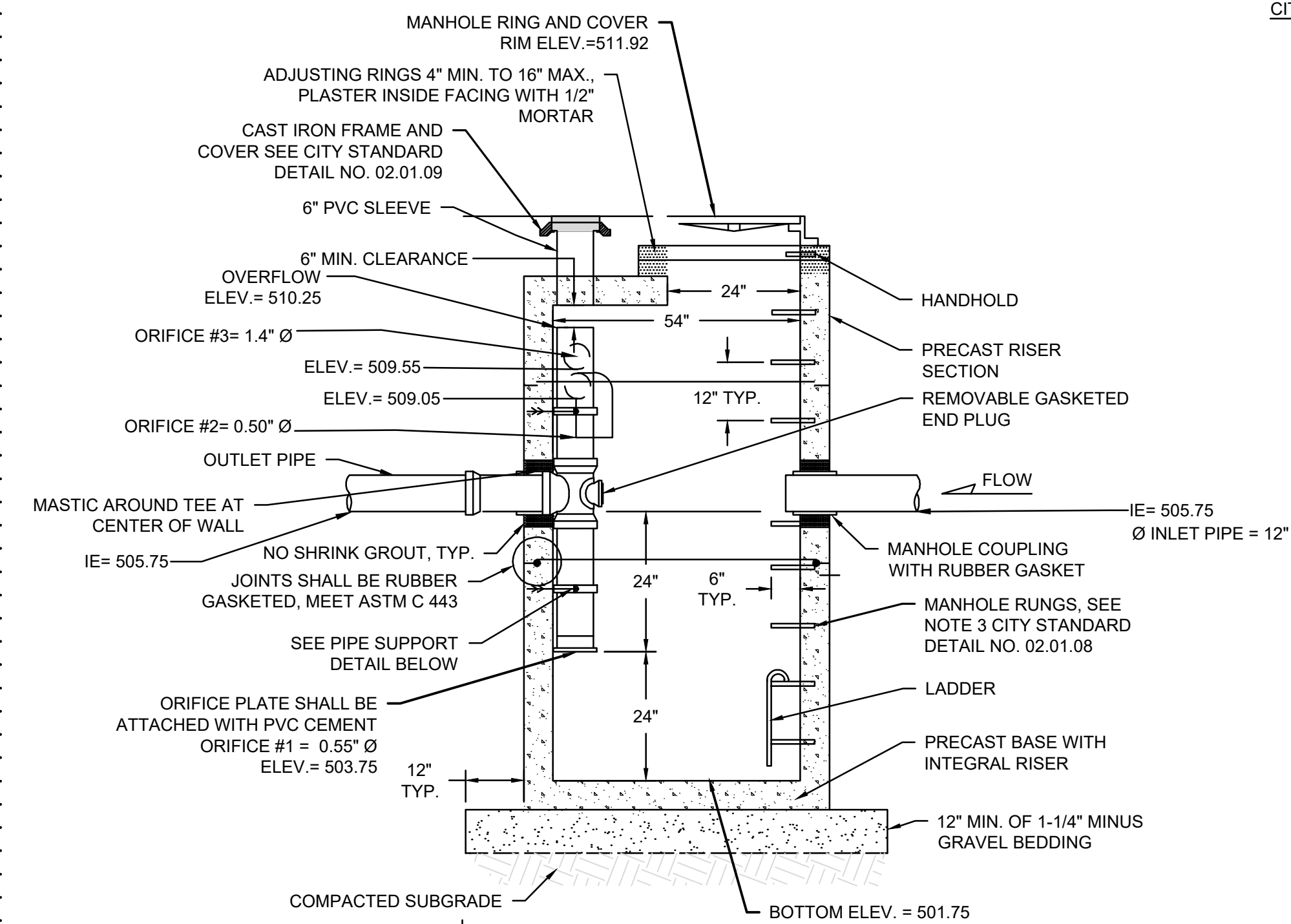


5 TRENCH SECTION
 NOT TO SCALE

7 DETENTION POND CROSS SECTION
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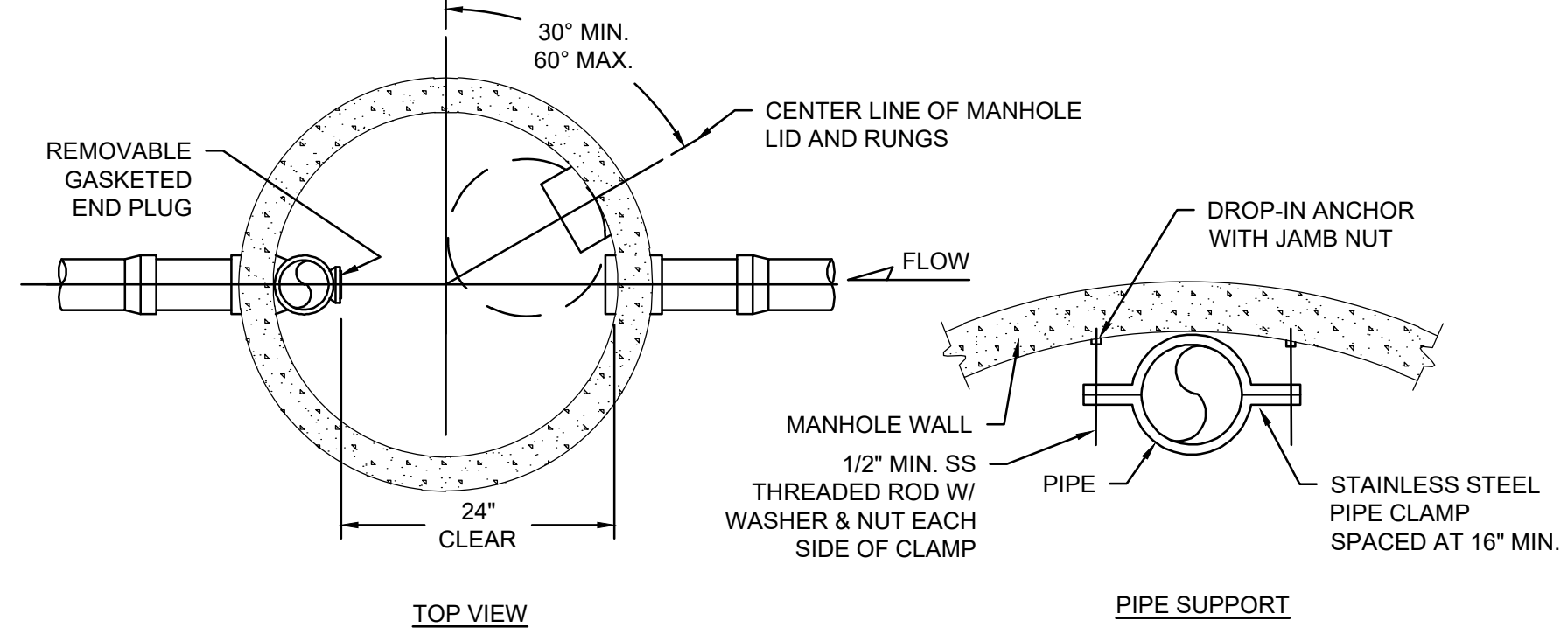


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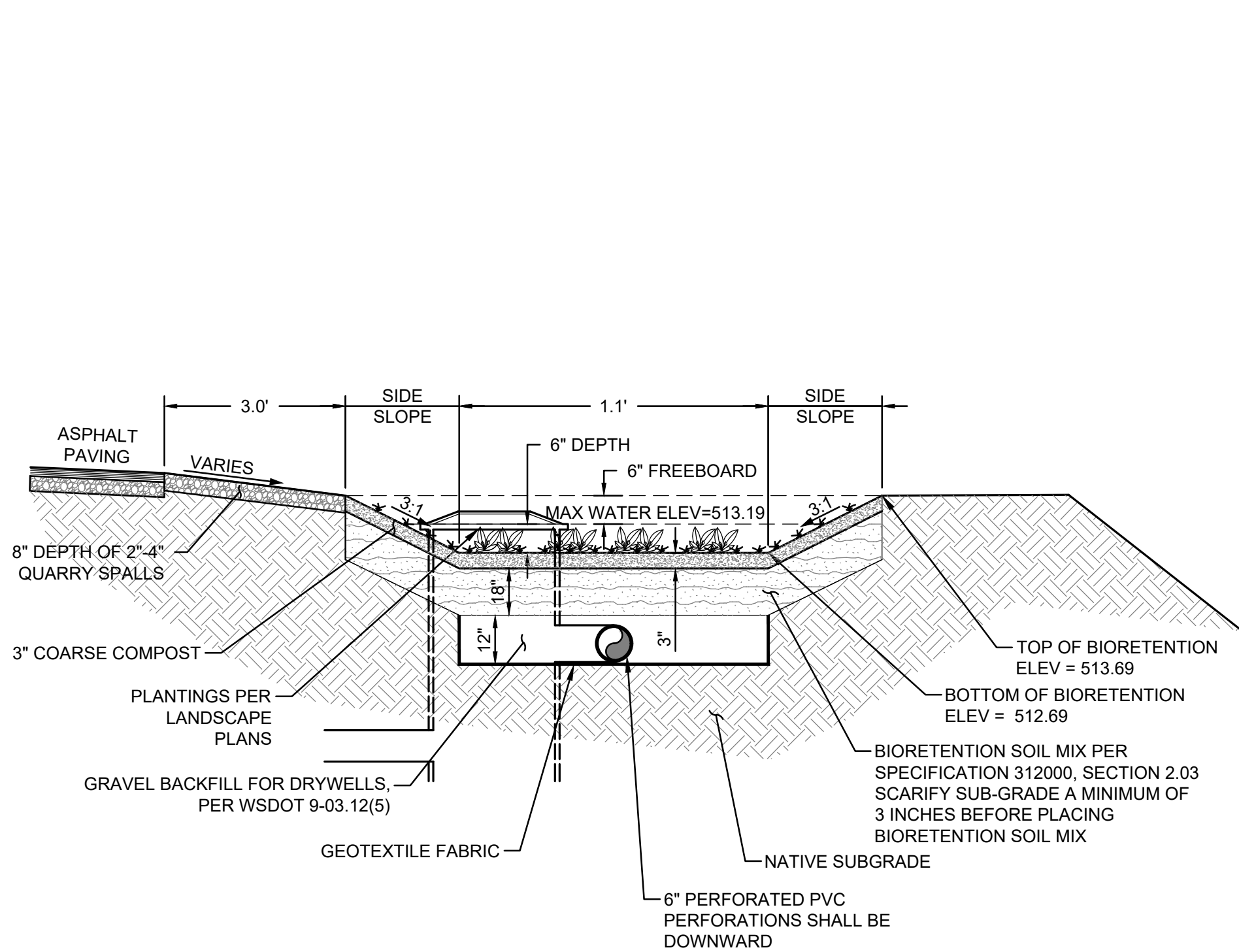
CITY OF PUYALLUP FLOW CONTROL MANHOLE NOTES (CITY STANDARD 02.01.08):

- NEAT LINE CUTS SHALL BE AT TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
- FLOW CONTROL MANHOLES SHALL BE USED AS A SINGLE USE STRUCTURE.
- MANHOLE RUNG SHALL CONFORM TO SECTION R, ASTM C 478 (AASHTO 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.
- PRECAST RISER SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUT SHALL HAVE WALL THICKNESS OF TWO (2) INCHES MINIMUM. KNOCKOUTS OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS MANHOLE WALL THICKNESS. MINIMUM DISTANCE BETWEEN HOLES IS EIGHT (8) INCHES.
- PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO ASTM C 478.
- 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.
- 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.
- 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.
- FLOW CONTROL UNIT SHALL BE MADE FROM PVC PIPE AND SHALL CONFORM TO THE STANDARD PIPE SPECIFICATIONS.



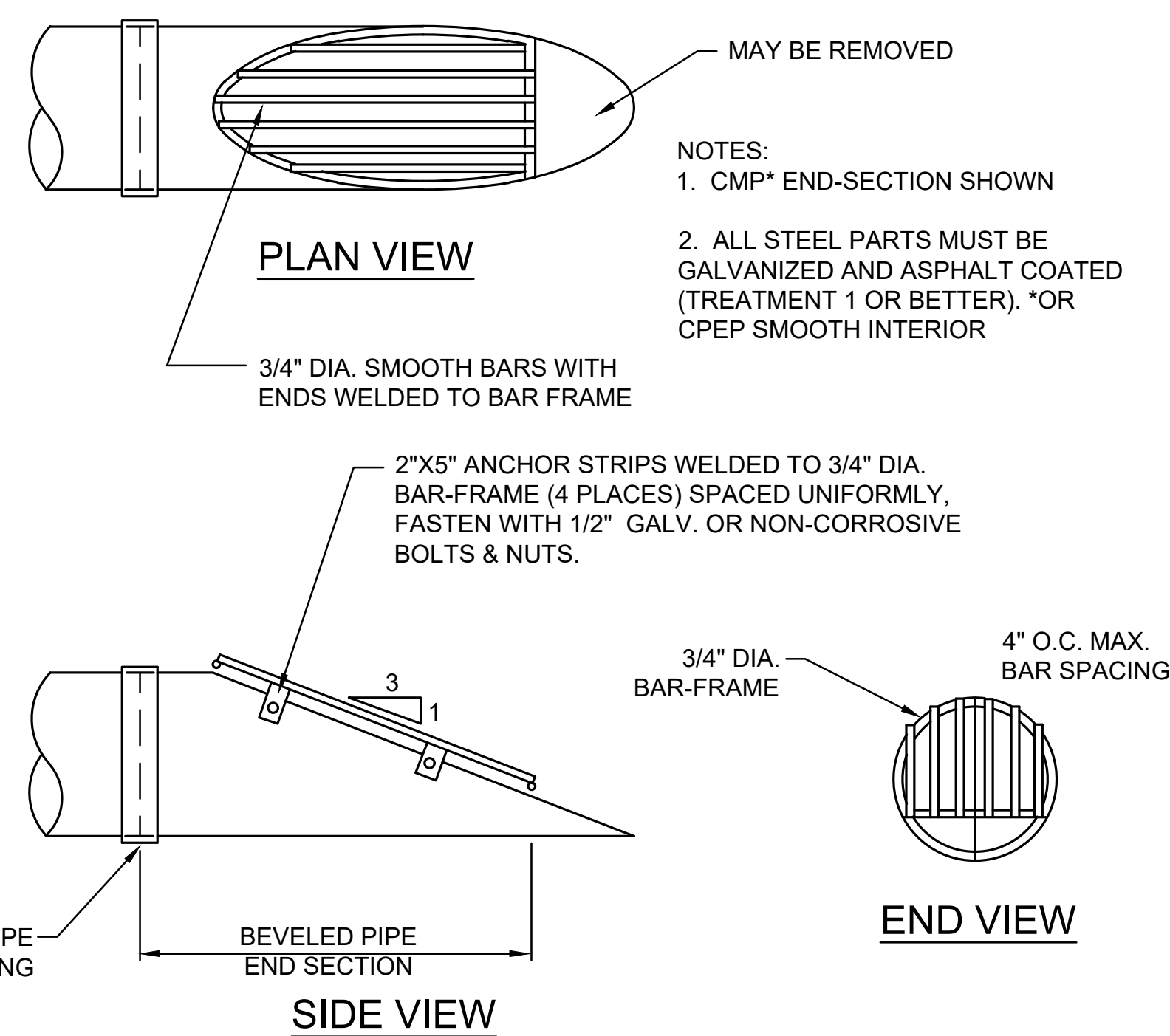
1 FLOW CONTROL MANHOLE

NOT TO SCALE



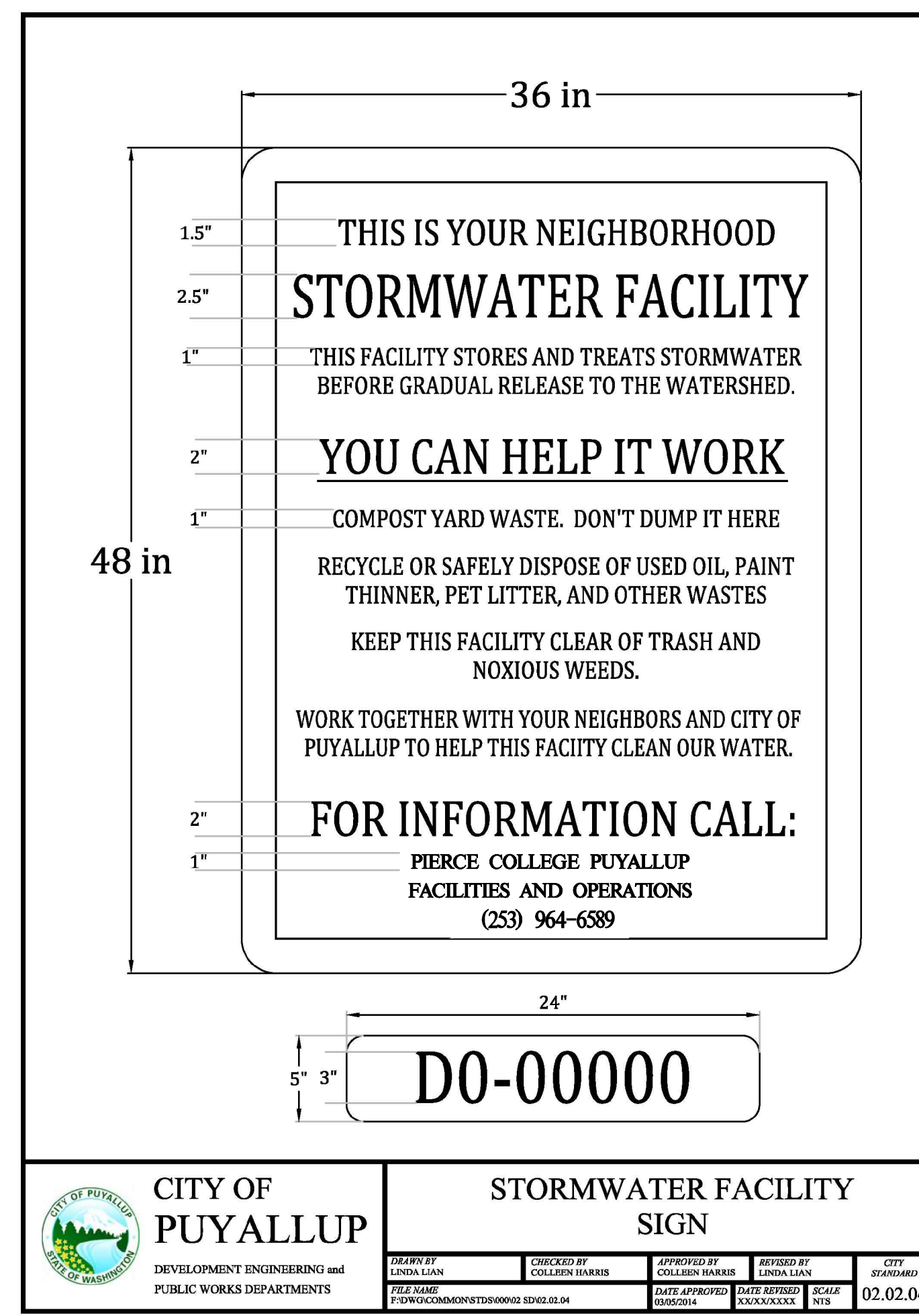
3 BIORETENTION CELL

NOT TO SCALE



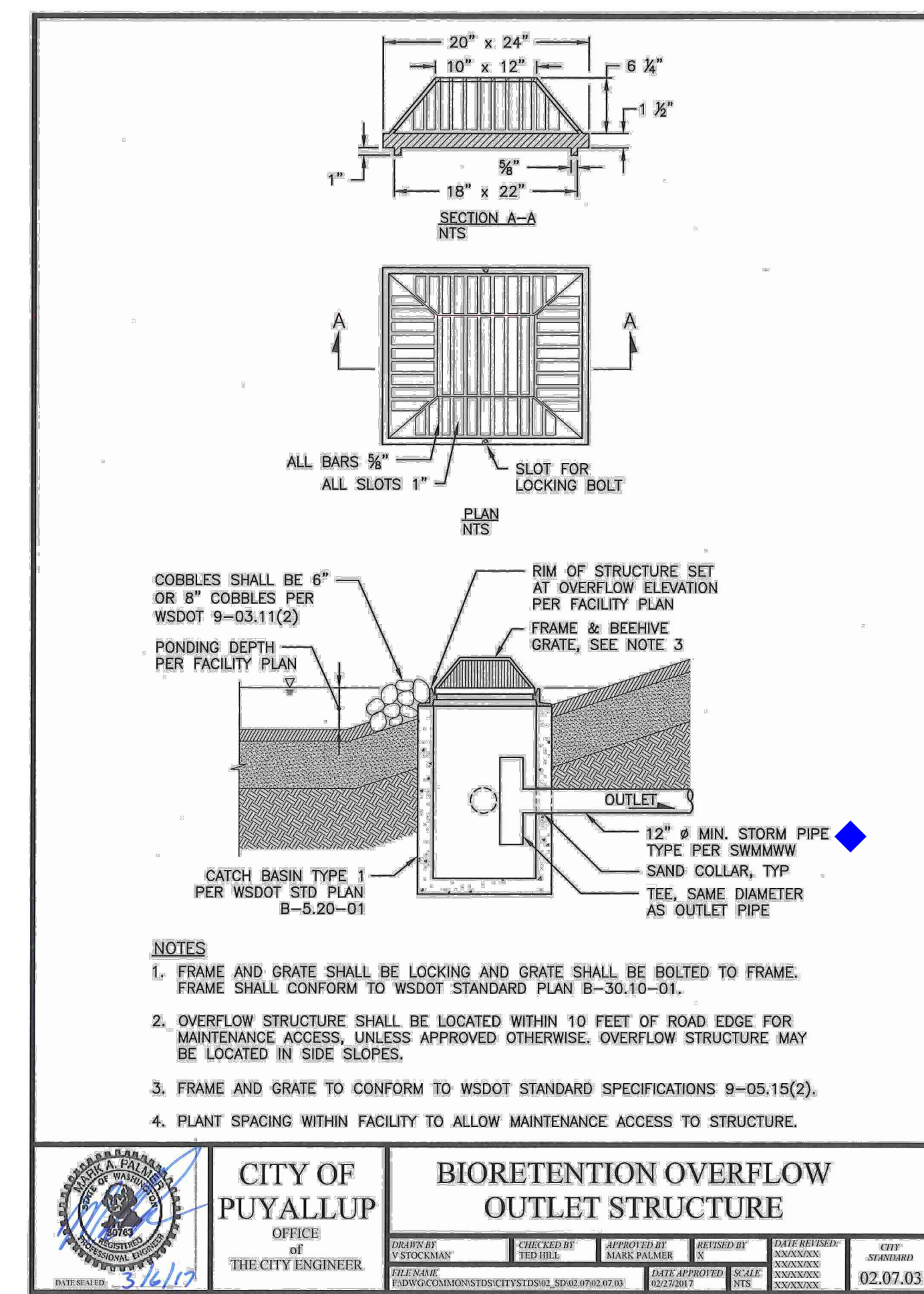
4 DEBRIS BARRIER

NOT TO SCALE



2 STORMWATER FACILITY SIGN

NOT TO SCALE



5 BIORETENTION OVERFLOW OUTLET STRUCTURE

NOT TO SCALE

APPROVED
 BY: *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE: 04/08/2024

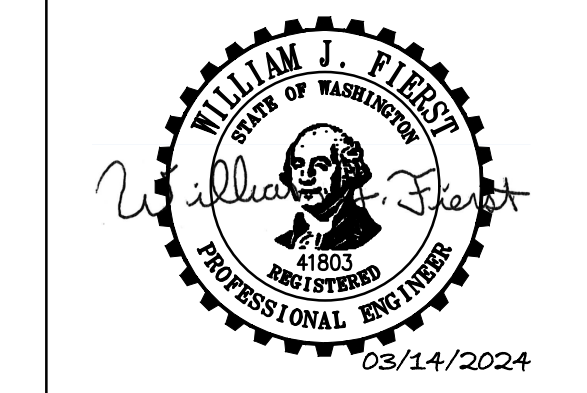
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mcb - ARC

architect_ MCGRANAHAN ARCHITECTS
 civil engineer_ AHBL
 landscape design_ AHBL
 electrical engineer_ HARGIS ENGINEERS

City of Puyallup Development & Permitting Services ISSUED PERMIT

Building Planning
 Engineering Public Works
 Fire Traffic



project_ PUYALLUP PARKING EXPANSION - HEP PARKING LOT
 client_ PIERCE COLLEGE
 location_ PUYALLUP, WA
 state project number_ 2020-5461(5-1)

NOTES AND DETAILS

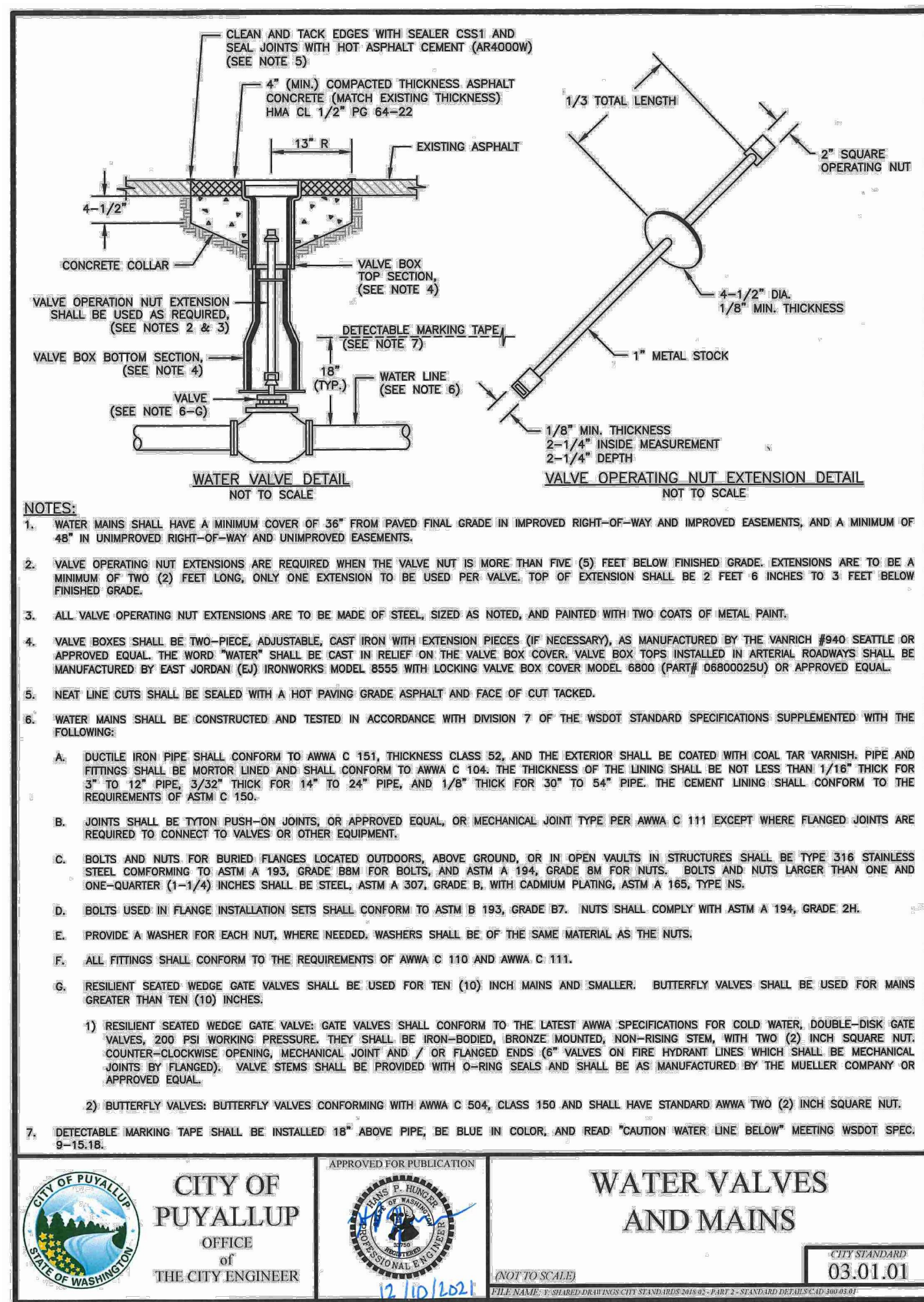
Project No. 2012.000

issued_ CHowde
 BID SET 15 MAR 24

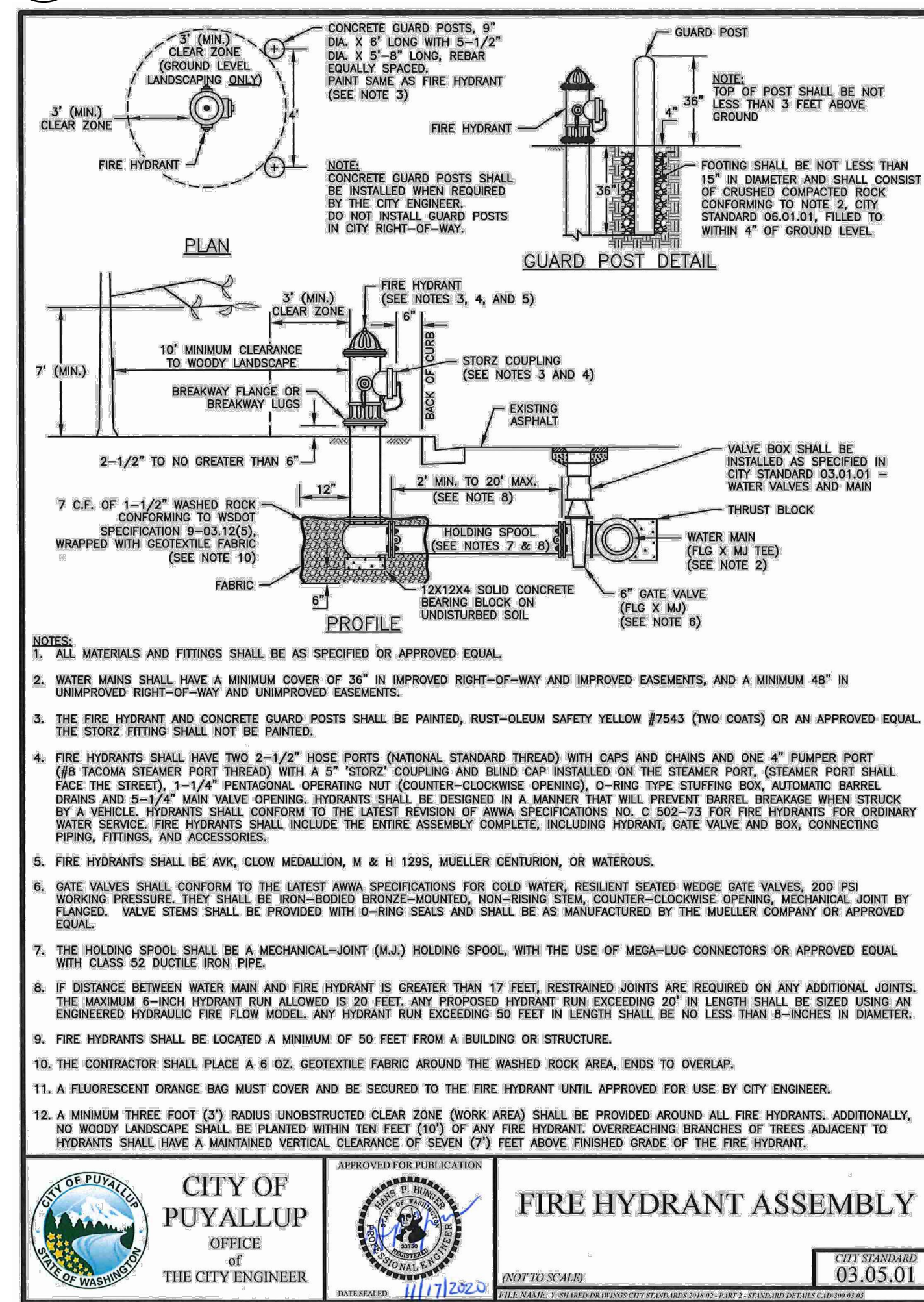
drawn_ CHowde
 checked_ W Fierst

sheet_ **C4.3**

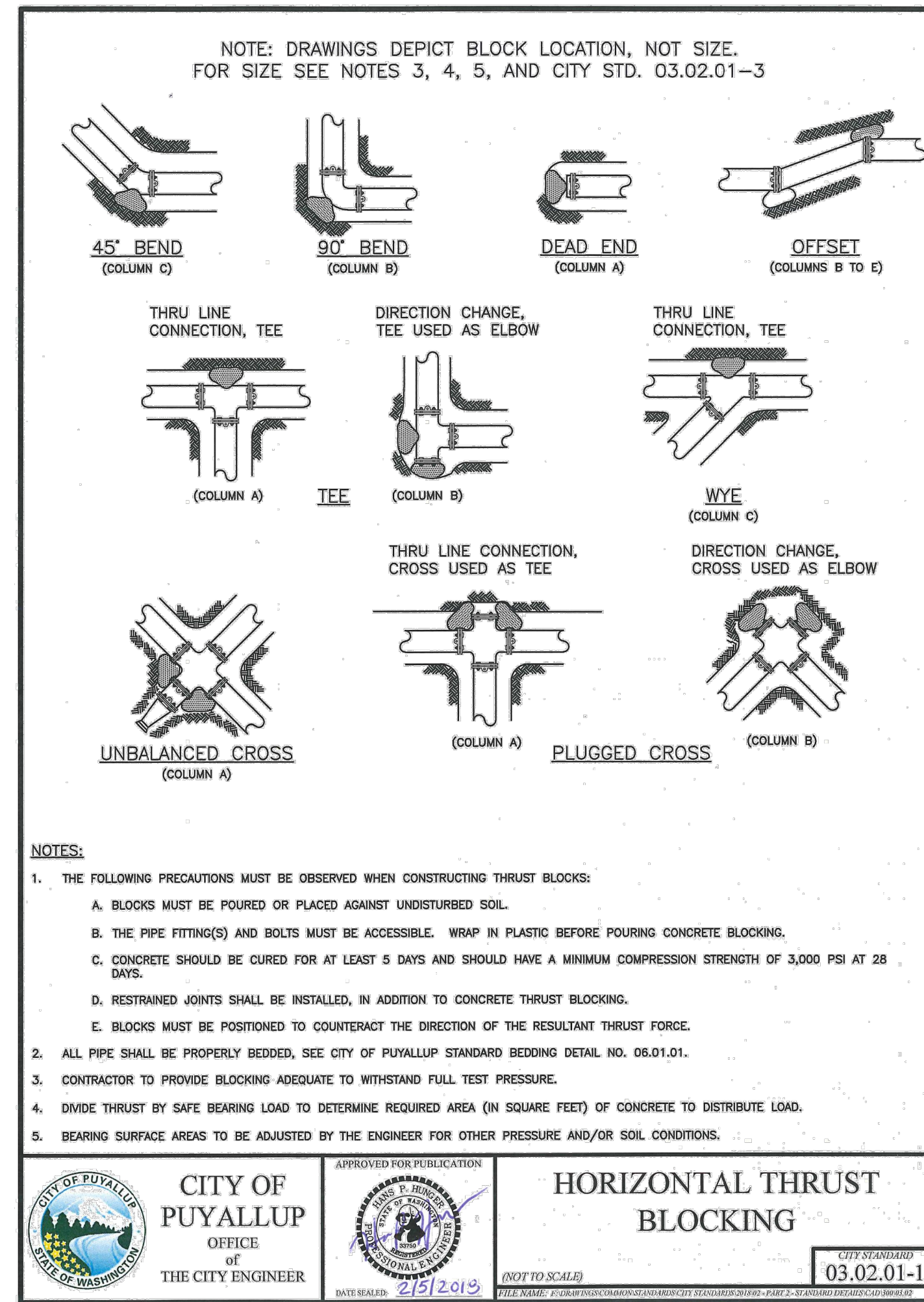
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1 WATER VALVES AND MAINS
NOT TO SCALE



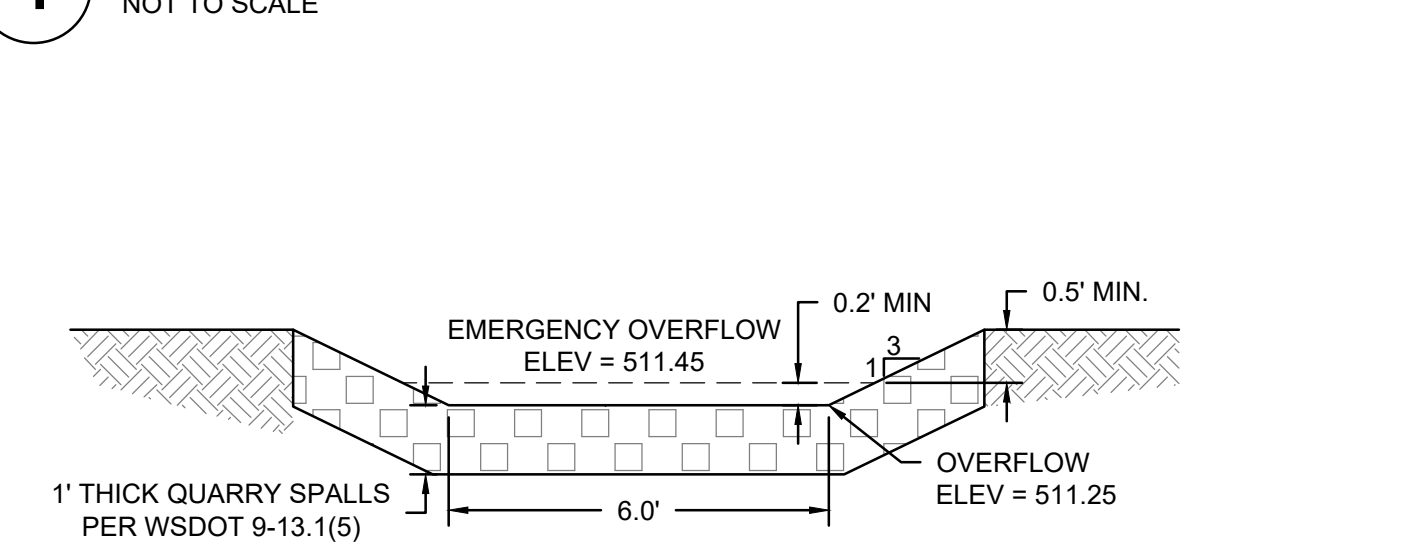
3 FIRE HYDRANT ASSEMBLY
NOT TO SCALE



2 THRUST BLOCKING
NOT TO SCALE



4 FIRE LANE MARKING
NOT TO SCALE



5 EMERGENCY OVERFLOW SPILLWAY
NOT TO SCALE

TABLE 2: THRUST AT FITTINGS AT 200 PSI

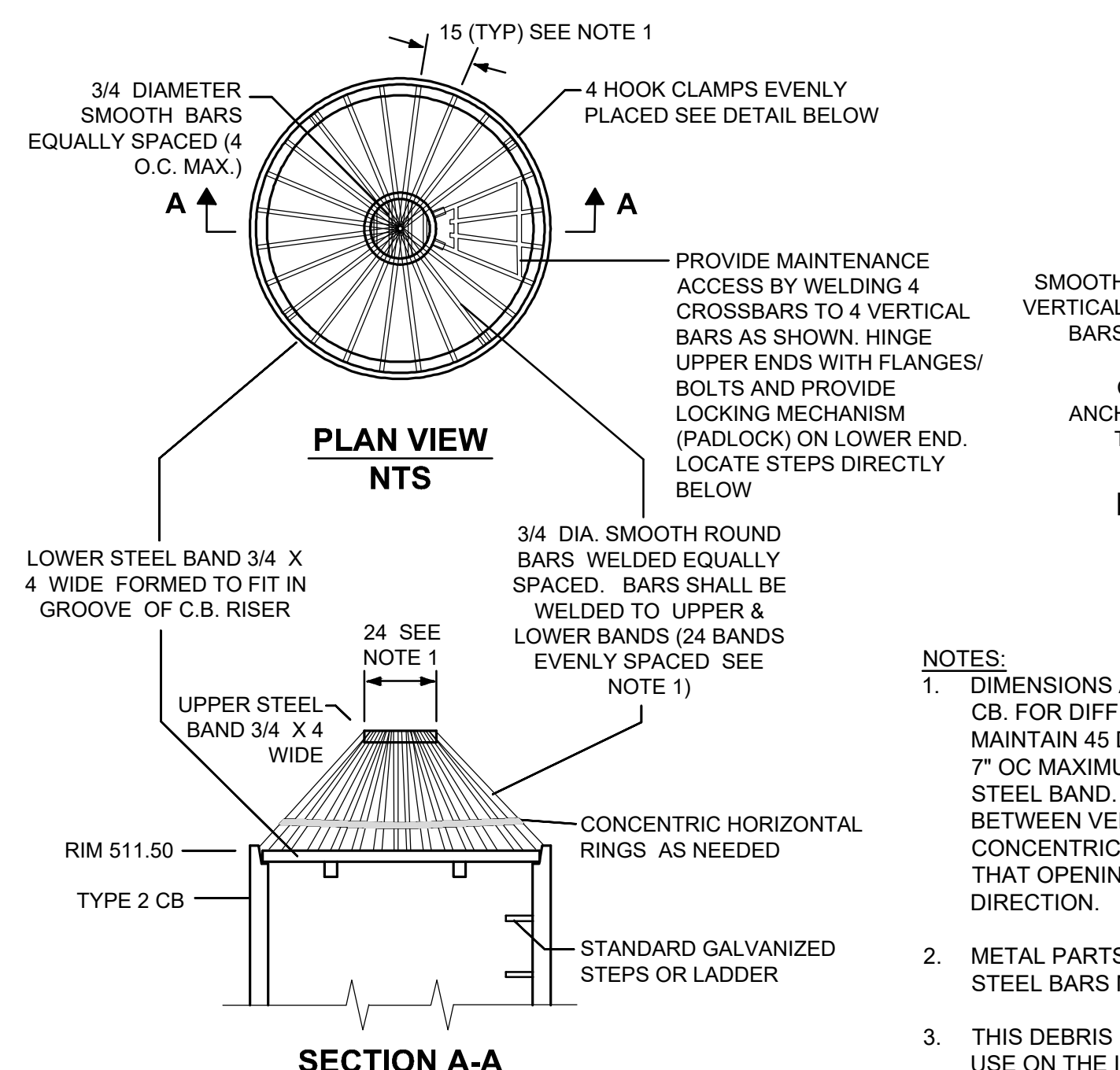
SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		A	B	C	D	E
4"	200	3,140	4,440	2,405	1,225	615
6"	200	7,070	9,985	5,410	2,760	1,385
8"	200	12,565	17,770	9,620	4,905	2,465
10"	200	19,635	27,770	15,030	7,660	3,850
12"	200	28,275	39,985	21,640	11,030	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,265	71,085	38,470	19,615	9,855

TABLE 3: BEARING VALUE OF SOIL

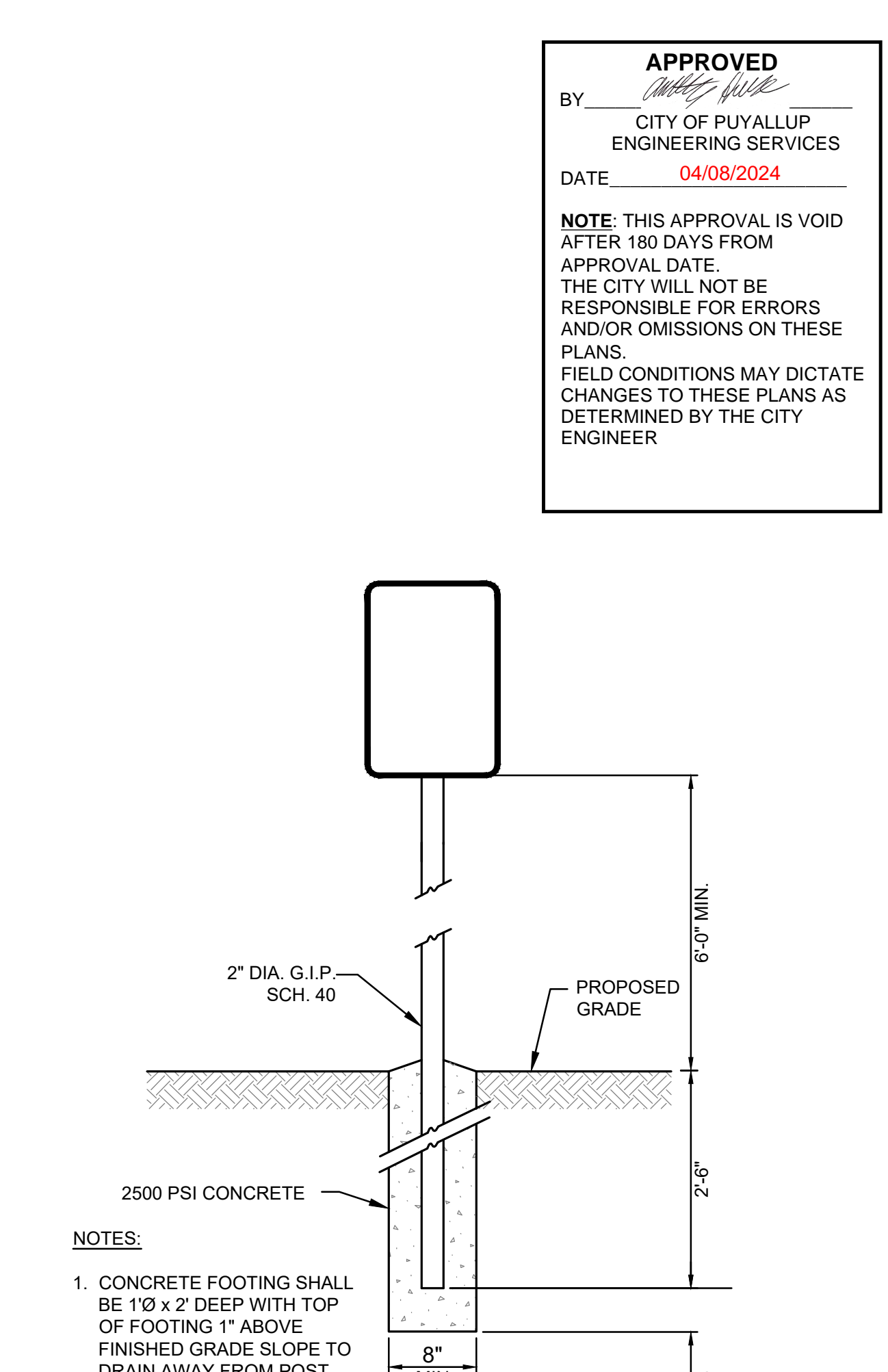
SOIL TYPE	SAFE BEARING LOAD LBS/SF
MUCK, PEAT, ETC.	0
SOFT CLAY/ALLUVIAL SOIL	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

THRUST BLOCKING TABLE
CITY STANDARD 03.02.01-3

6 POND OVERFLOW STRUCTURE
NOT TO SCALE



6 POND OVERFLOW STRUCTURE
NOT TO SCALE



7 SIGN POST
NOT TO SCALE

APPROVED
BY: *[Signature]*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE: 04/08/2024

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architect: MCGRANAHAN ARCHITECTS
civil engineer: AHBL
landscape design: AHBL
electrical engineer: HARGIS ENGINEERS

City of Puyallup Development & Permitting Services ISSUED PERMIT

Building Planning
Engineering Public Works
Fire Traffic

WILLIAM J. FIESTER
PROFESSIONAL ENGINEER
03/14/2024

project: PUYALLUP PARKING EXPANSION - HEP PARKING LOT
client: PIERCE COLLEGE
location: PUYALLUP, WA
state project number: 2020-5461(5-1)
Project No. 2012.000

NOTES AND DETAILS

issued: 15 MAR 24
BID SET
revision:

drawn: CHowde
checked: W Fierst
sheet: C4.4

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 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE **04/08/2024**

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



project_ PUYALLUP CAMPUS PARKING EXPANSION FOR LOT A
 client_ PIERCE COLLEGE
 location_ PUYALLUP, WA
 state project number_ 2020 - 5661 (5 - 1)

Project No. 2012.000
TREE RETENTION PLAN AREA A

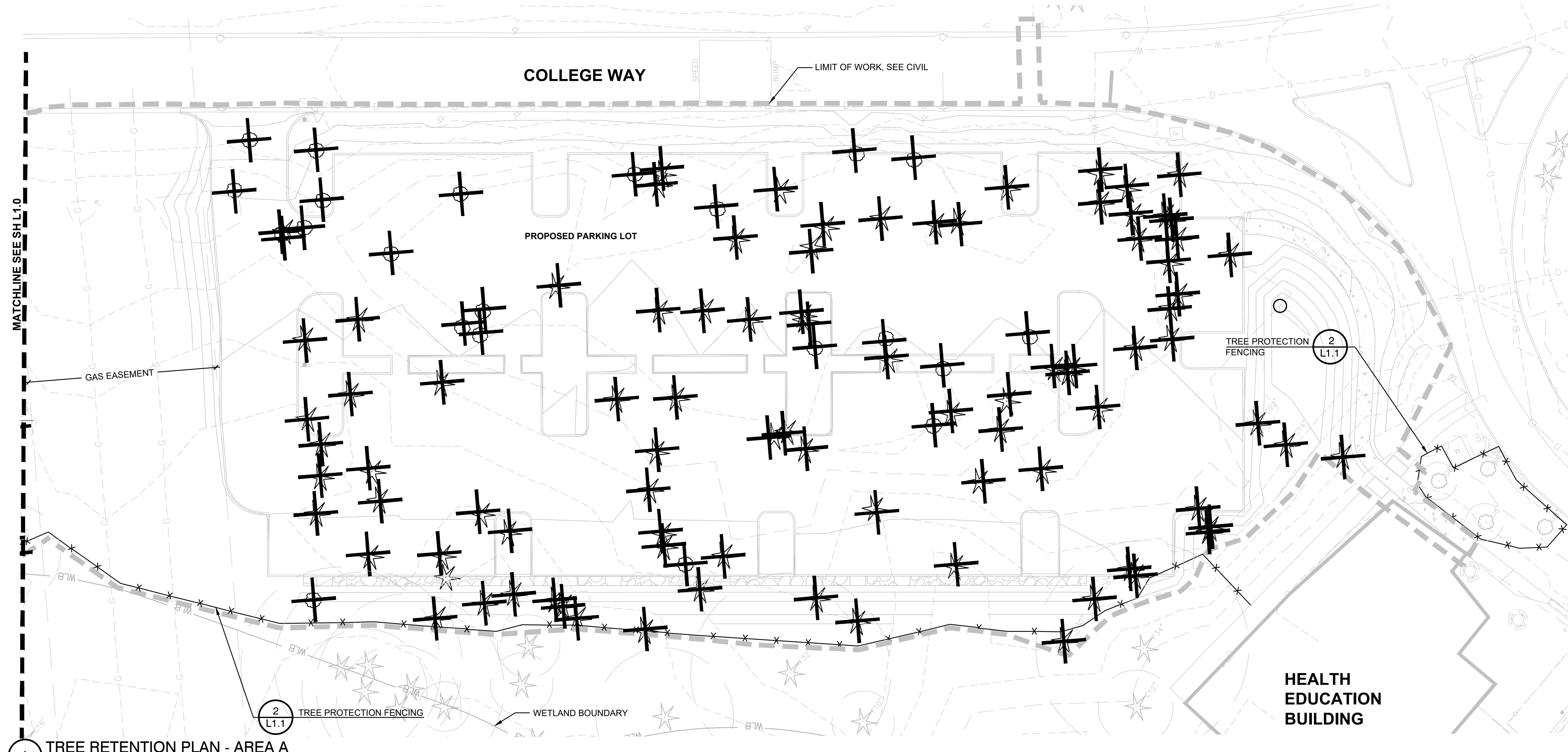
issued_ 15 MAR 24
 BID SET

revision_

drawn_ S Johnson

checked_ S Singleton Schroedel

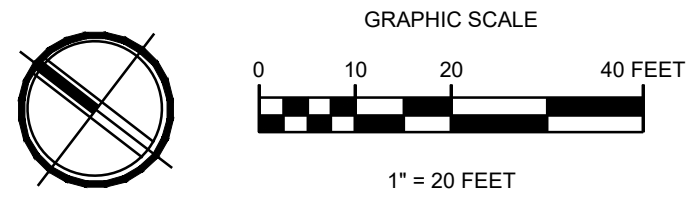
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- LEGEND**
- EXISTING TREE TO REMAIN
 - EXISTING TREE TO BE REMOVED
 - TREE PROTECTION FENCE
 - CLEARING LIMITS, SEE CIVIL

- TREE SYMBOL LEGEND**
- CONIFEROUS TREE
SPECIES CODE (DF = DOUGLAS FIR, C = CEDAR, H = HEMLOCK)
DIAMETER BREST HEIGHT (DBH) **DF 24"**
 - DECIDUOUS TREE
SPECIES CODE (M = MAPLE, A = ALDER)
DIAMETER BREST HEIGHT (DBH) **M 16"**
 - CRITICAL ROOT ZONE (CRZ), TYP.

- TREE PROTECTION NOTES**
- CONTRACTOR SHALL VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
 - THE CONTRACTOR IS RESPONSIBLE FOR READING THE PLANS, SPECIFICATIONS AND NOTES.
 - PER CITY OF PUYALLUP MUNICIPAL CODE SIGNIFICANT TREES ARE ALL HEALTHY AND GROWING TREES GREATER THAN FIFTEEN (15') INCHES DBH (DIAMETER BREST HEIGHT = 4.5' ABOVE GROUND).
 - PER CITY OF PUYALLUP VEGETATION MANAGEMENT STANDARDS THE CRITICAL ROOT PROTECTION ZONE FOR SIGNIFICANT TREES, GROUPINGS OF SIGNIFICANT TREES, A STAND OF SIGNIFICANT TREES, OR A HERITAGE TREE SHALL BE DETERMINED BY THE FOLLOWING FORMULA: TREE DIAMETER (IN INCHES) X 2, CONVERTED INTO FEET = CRPZ DIAMETER.
 - THE FOLLOWING RULES APPLY TO ALL CRITICAL ROOT PROTECTION ZONES (CRPZ), AS DEFINED ABOVE:
 - NO ENTRY, VEHICLE AND FOOT TRAFFIC PROHIBITED
 - NO GRADE CHANGES, STORAGE/STOCKPILING OF MATERIALS OR EQUIPMENT
 - NO TRENCHING
 - TREE PROTECTION FENCING SHALL REMAIN IN PLACE UNTIL NOTIFICATION FROM THE PUYALLUP PLANNING DEPARTMENT
 - ROOT CUTS OUTSIDE OF CRPZ AREAS SHALL BE CUT CLEANLY AND IMMEDIATELY COVERED WITH WET BURLAP, WET WOOD CHIPS/HOG FUEL, WET COMPOST, OR APPROVED EQUAL TO PREVENT ROOT DESICCATION.



1 TREE RETENTION PLAN - AREA A

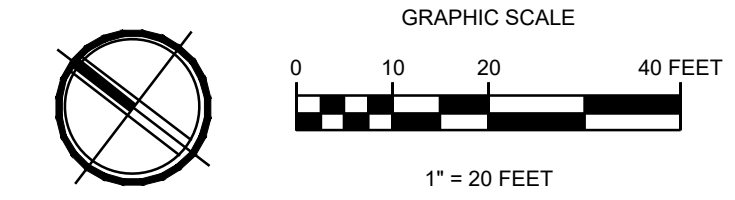
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LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREE PROTECTION FENCE (2 L1.1)
- CLEARING LIMITS, SEE CIVIL

TREE SYMBOL LEGEND

- CONIFEROUS TREE
SPECIES CODE (DF = DOUGLAS FIR, C = CEDAR, H = HEMLOCK)
DIAMETER BREST HEIGHT (DBH)
- DECIDUOUS TREE
SPECIES CODE (M = MAPLE, A = ALDER)
DIAMETER BREST HEIGHT (DBH)
- CRITICAL ROOT ZONE (CRZ), TYP.



APPROVED
BY *Chris Hill*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE 04/08/2024

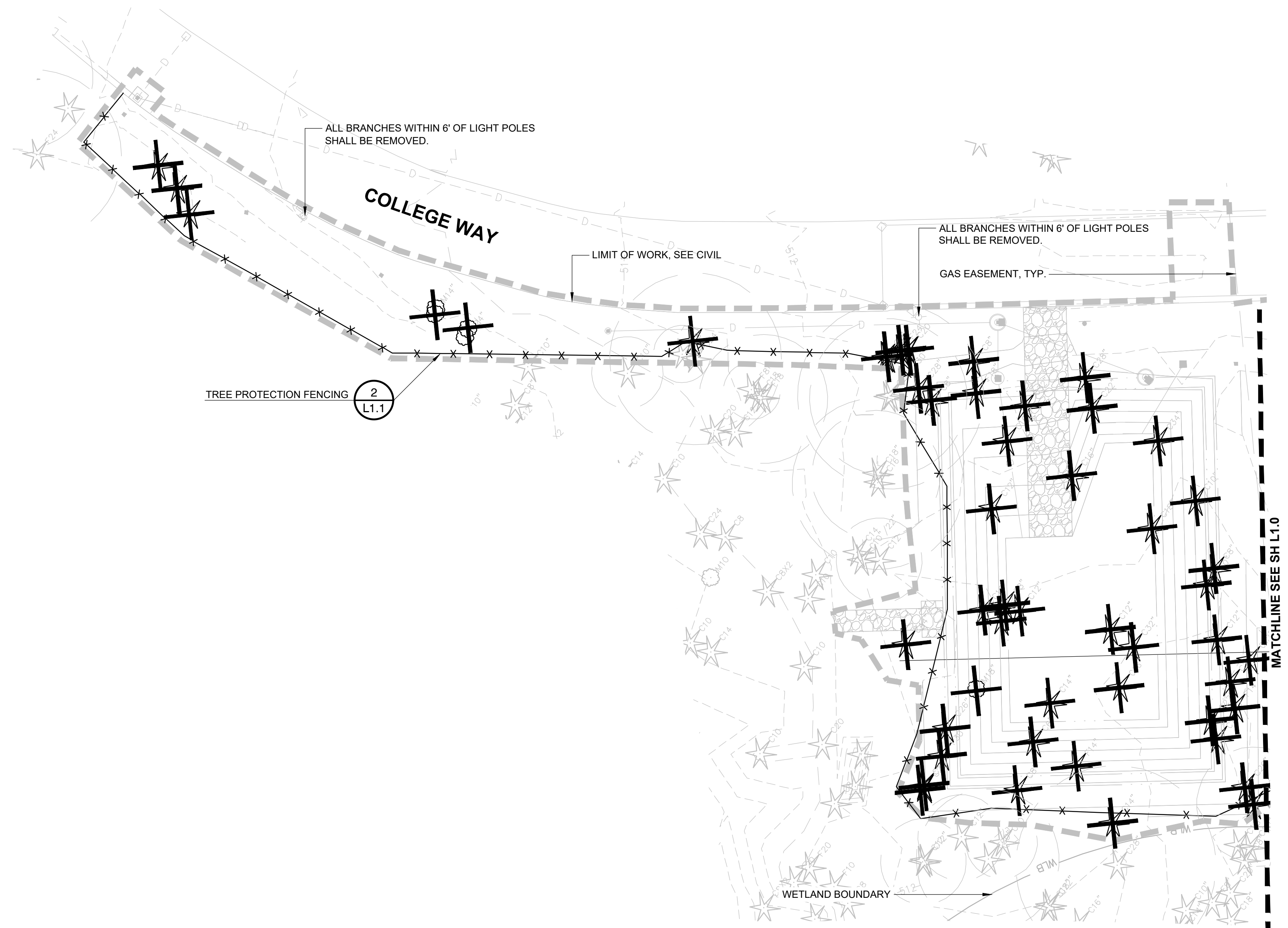
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mcb-ARC

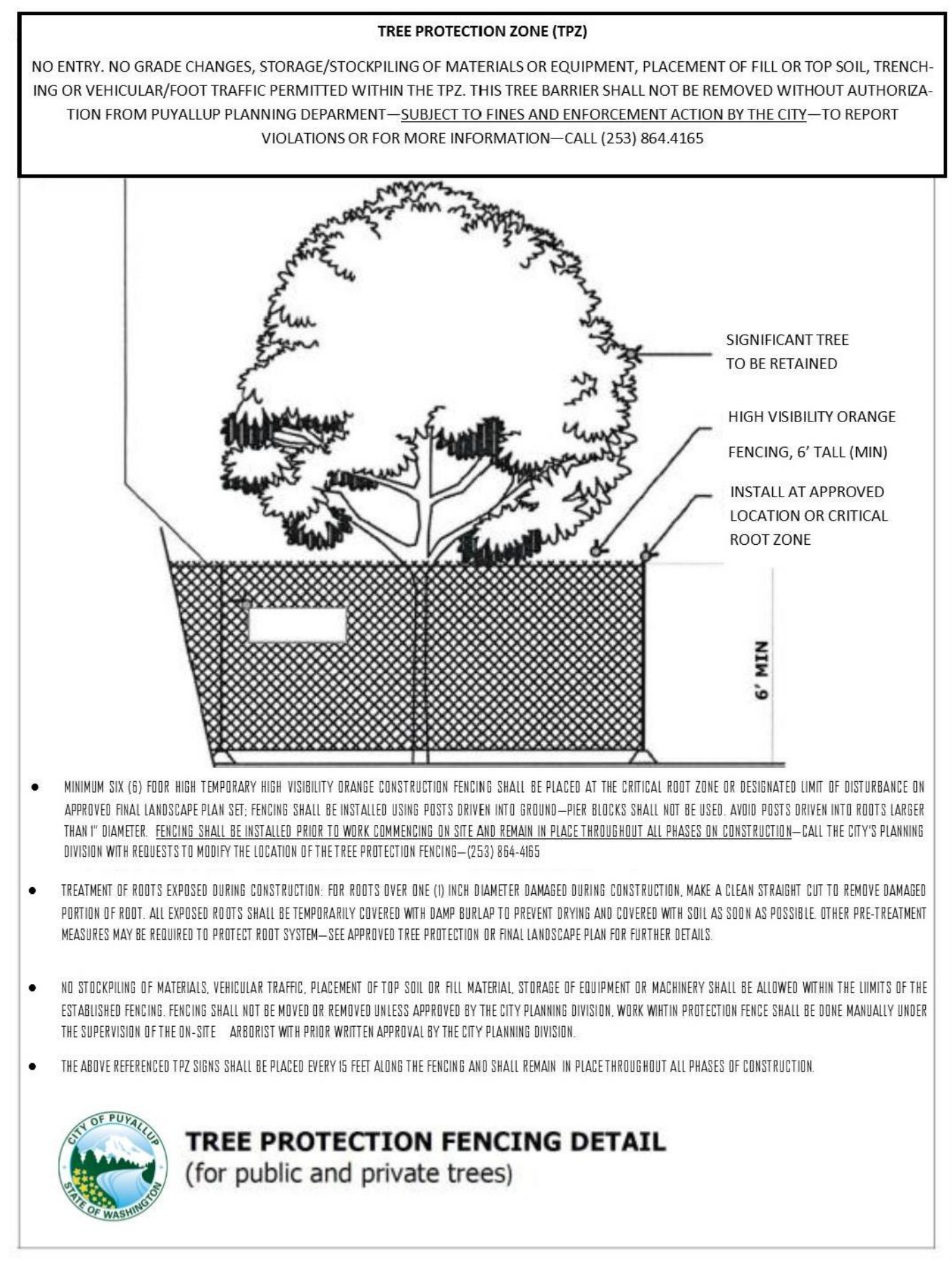
architect_ MCGRANAHAN ARCHITECTS
civil engineer_ AHBL
landscape design_ AHBL
electrical engineer_ HARGIS ENGINEERS

City of Puyallup Development & Permitting Services ISSUED PERMIT

Building	Planning
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Fire	Traffic



1 TREE RETENTION PLAN - AREA B



2 TREE PROTECTION FENCING
NTS

P-2-PCP-39



project_ PUYALLUP CAMPUS PARKING EXPANSION FOR LOT A
client_ PIERCE COLLEGE
location_ PUYALLUP, WA
state project number_ 2020 - 5461 (5 - 1)

Project No. 2012.000
TREE RETENTION PLAN AREA B
issued_ 15 MAR 24
revision_

drawn_ S Johnson
checked_ S Singleton Schroedel

sheet_ **L1.1**

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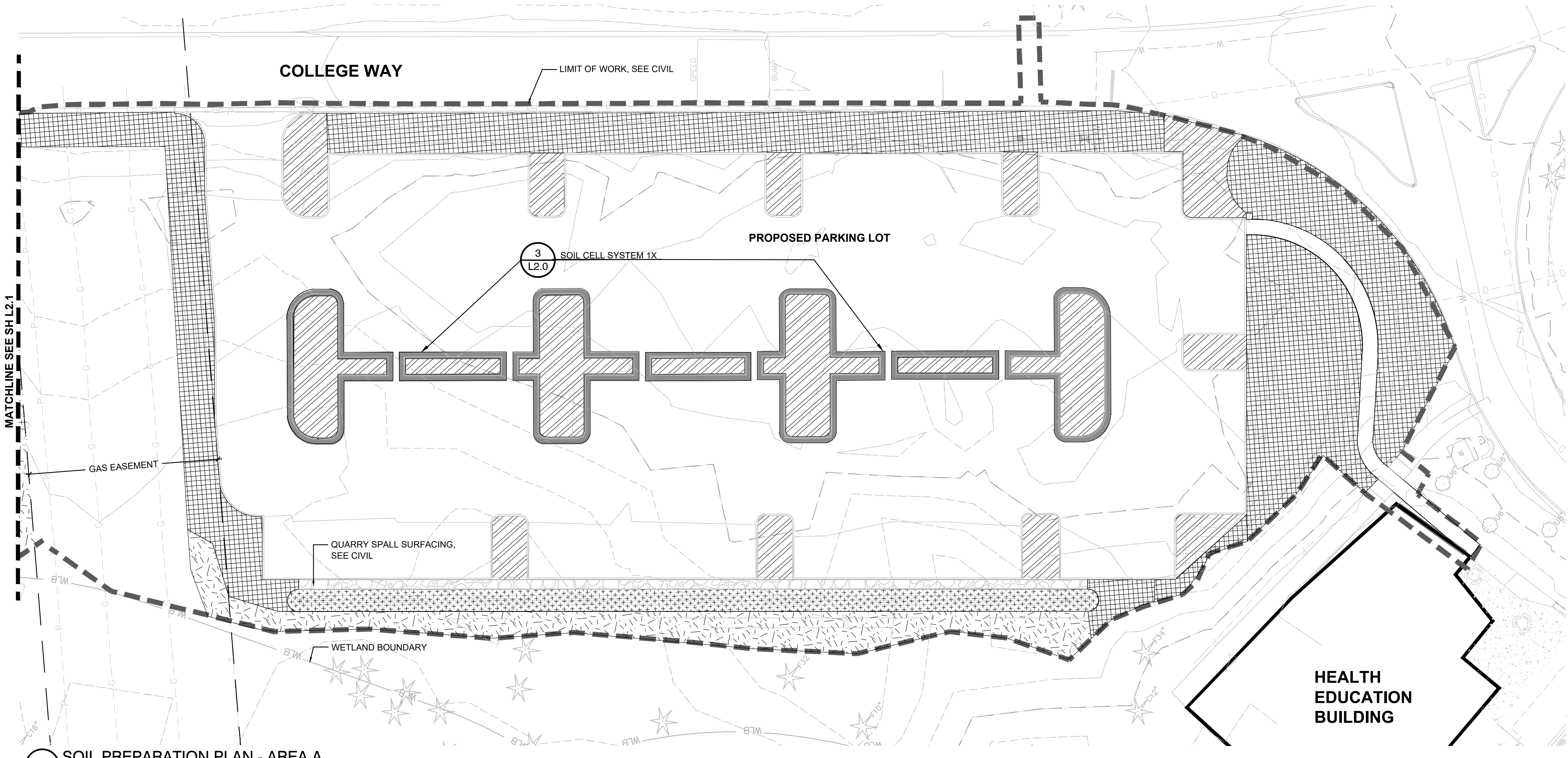
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 BY: *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
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 civil engineer_ AHBL
 landscape design_ AHBL
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City of Puyallup Development & Permitting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

Building	Planning
Engineering	Public Works
Fire	Traffic



LEGEND

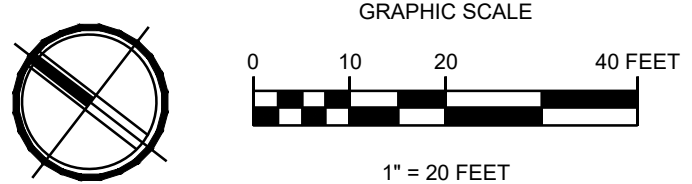
EXISTING TREE TO REMAIN

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
[Hatched Pattern]	18" TOPSOIL, SEE SPEC SECTION 329113.2.1A
[Grid Pattern]	8" TOPSOIL, SEE SPEC SECTION 329113.2.1A AND DETAIL 1 SH L2.2
[Dotted Pattern]	18" BIORETENTION SOILS, SEE SPEC SECTION 329113.2.1.B
[Cross-hatched Pattern]	3" COMPOST AMENDMENT, SEE SPEC SECTION 329113.2.2.A

GENERAL LANDSCAPE NOTES

- PROVIDE A SINGLE ROW OF STRUCTURAL SOIL CELLS AROUND ALL INTERNAL PLANTING ISLANDS PER CITY OF PUYALLUP STANDARDS. SEE SPEC SECTION 329451 FOR MORE INFORMATION.
- SOIL AMENDMENTS SHALL CONFORM TO ALL CITY OF PUYALLUP CODE REQUIREMENTS, INCLUDING PARKING LOT INTERNAL LANDSCAPE ISLANDS AND POST CONSTRUCTION SOIL VOLUME MINIMUMS.
- CONTRACTOR SHALL VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR READING THE PLANS, SPECIFICATIONS AND NOTES.



project_ PUYALLUP CAMPUS PARKING EXPANSION FOR LOT A
 client_ PIERCE COLLEGE
 location_ PUYALLUP, WA
 state project number_ 2020 - 5461 (5 - 1)

Project No. 2012.000
SOILS PREPARATION PLAN AREA A

issued_ 15 MAR 24
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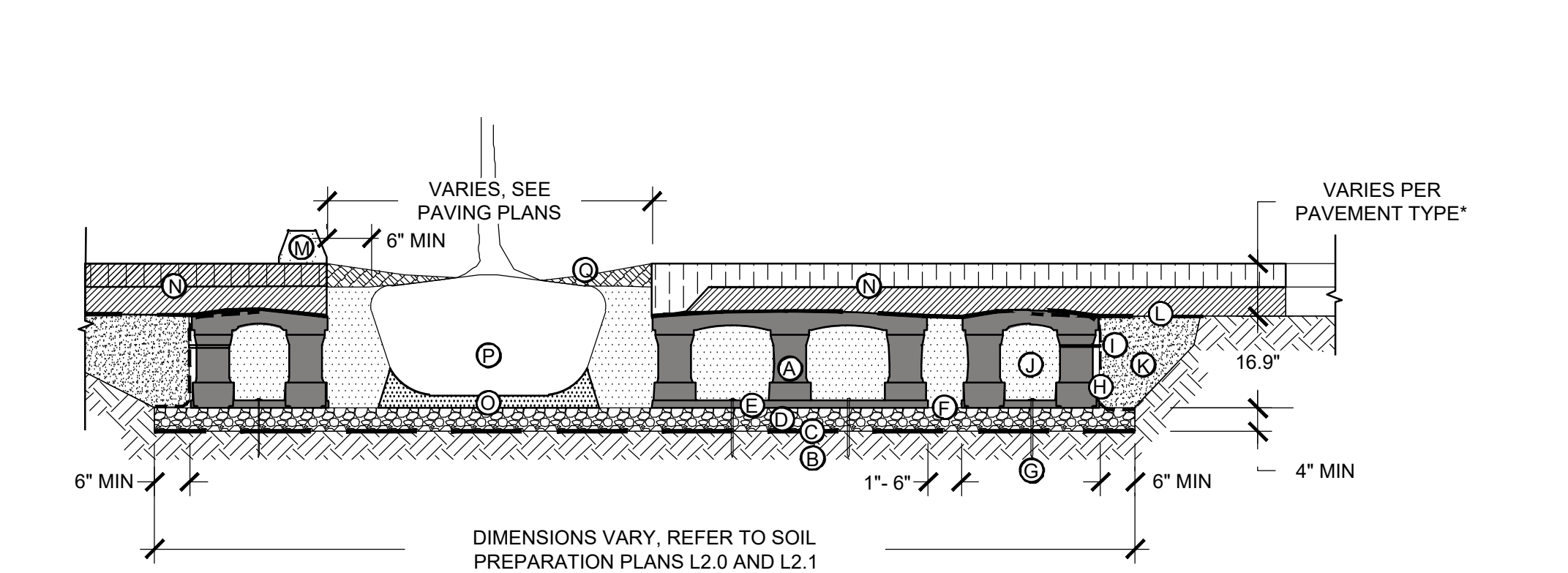
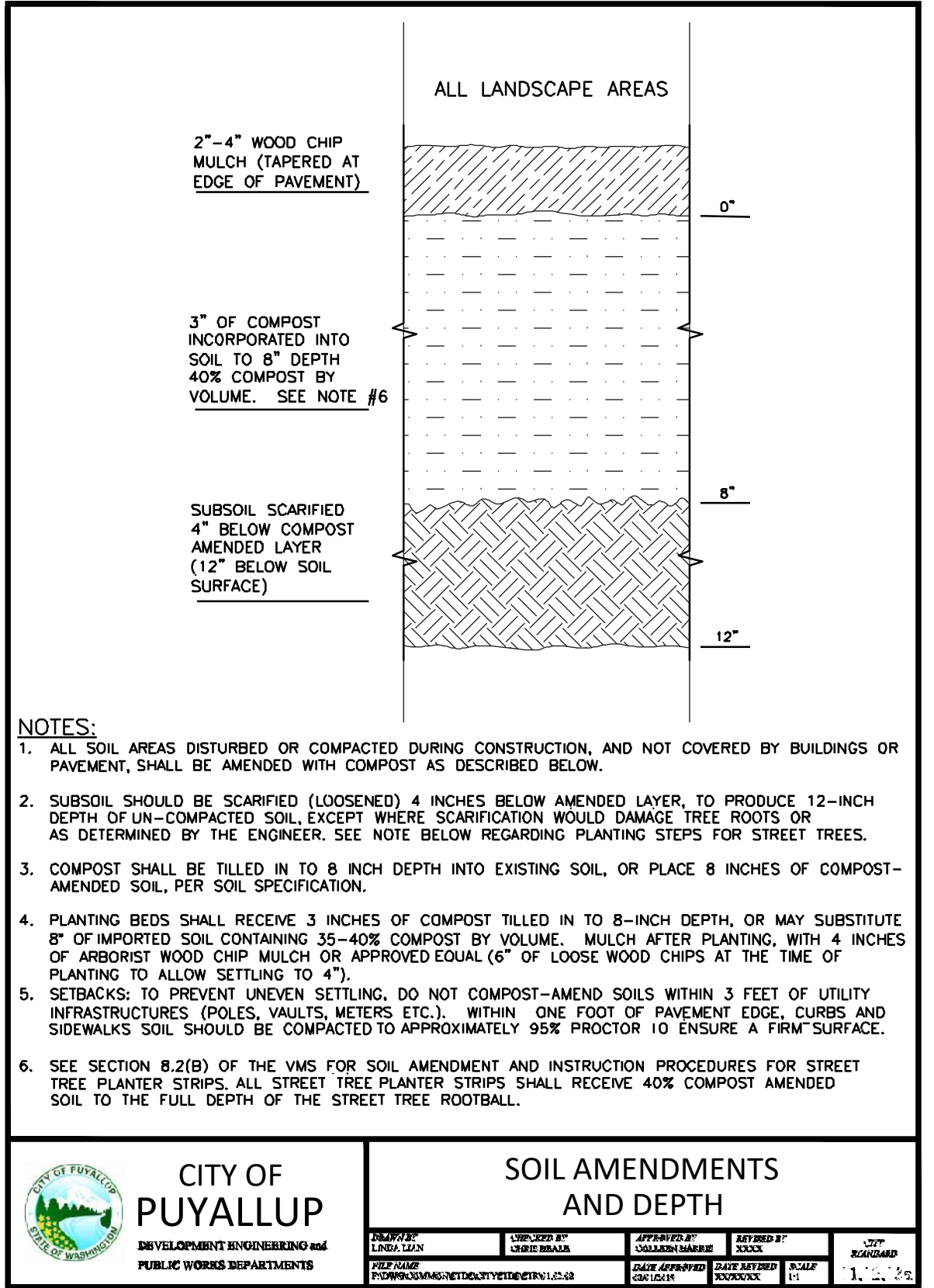
revision_

drawn_ S Johnson

checked_ S Singleton Schroedel

sheet_ **L2.0**

1 SOIL PREPARATION PLAN - AREA A



- KEY PLAN**
- (A) SOIL CELL SYSTEM (DECK, BASE, AND POSTS)
 - (B) SUBGRADE, COMPACTED
 - (C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE
 - (D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
 - (E) SOIL CELL BASE SLOPE, 10% MAX
 - (F) 1" TO 6" SPACING BETWEEN SOIL CELLS AT BASE
 - (G) ANCHORING SPIKES, SEE SPECS
 - (H) GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
 - (I) CABLE TIE, ATTACHING GEOGRID TO SOIL CELL AT BASE OF UPPER LEG FLARE, AS NEEDED
 - (M) PLANTING SOIL, PER PROJECT SPECIFICATIONS, PLACED IN LIFTS AND WALK-IN COMPACTED TO 75-85% PROCTOR
 - (N) COMPACTED BACKFILL, PER PROJECT SPECIFICATIONS
 - (O) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION
 - (P) CURB, SEE CIVIL
 - (Q) PAVEMENT AND AGGREGATE BASE PER PROJECT*
 - (R) PLANTING SOIL BELOW ROOT BALL, COMPACTED WELL TO PREVENT SETTLING
 - (S) ROOT BALL
 - (T) TREE OPENING TREATMENT, PER PROJECT SPECIFICATIONS
- *MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING**
- | PAVEMENT | + AGGREGATE BASE COURSE |
|-------------|-------------------------|
| 4" CONCRETE | + 4" AGGREGATE |
| 3" PAVER | + 12" AGGREGATE |
| 4" ASPHALT | + 12" AGGREGATE |
| 2.6" PAVER | + 5" CONCRETE |
- NOTES**
- EXCAVATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS
 - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
 - PROVIDE SUPPLEMENTAL IRRIGATION
 - DO NOT SCALE DRAWINGS

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DATE: March 14, 2024 FILENAME: \\ahbl.com\data\Projects\2020\220071840_LAN\CAD\LOT A REDESIGN\2200718.40 - SH - SOILS.dwg

2 SOIL AMENDMENTS AND DEPTH

1" = 1'-0" P-2-PCP-34

3 SOIL CELL SYSTEM 1X

NTS P-2-PCP-34



1 SOIL PREPARATION PLAN - AREA B

APPROVED
 BY *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE 04/08/2024

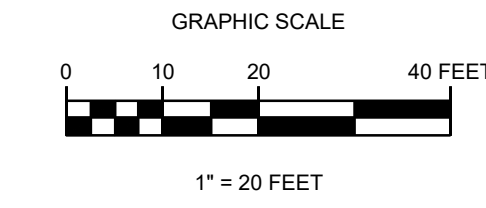
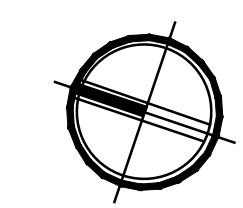
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LEGEND

EXISTING TREE TO REMAIN

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
	18" TOPSOIL, SEE SPEC SECTION 329113.2.1A
	8" TOPSOIL, SEE SPEC SECTION 329113.2.1A AND DETAIL 1 SH L2.2
	18" BIORETENTION SOILS, SEE SPEC SECTION 329113.2.1.B
	3" COMPOST AMENDMENT, SEE SPEC SECTION 329113.2.2.A



mcb-arc

architect_
MCRANAHAN ARCHITECTS

civil engineer_
AHBL

landscape design_
AHBL

electrical engineer_
HARGIS ENGINEERS

City of Puyallup
Development & Permitting Services
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Fire	Traffic



project_
PUYALLUP CAMPUS PARKING
EXPANSION FOR LOT A

client_
PIERCE COLLEGE

location_
PUYALLUP, WA

state project number_
2020 - 5461 (5 - 1)

Project No. 2012.000

**SOILS
PREPARATION
PLAN
AREA B**

issued_
BID SET 15 MAR 24

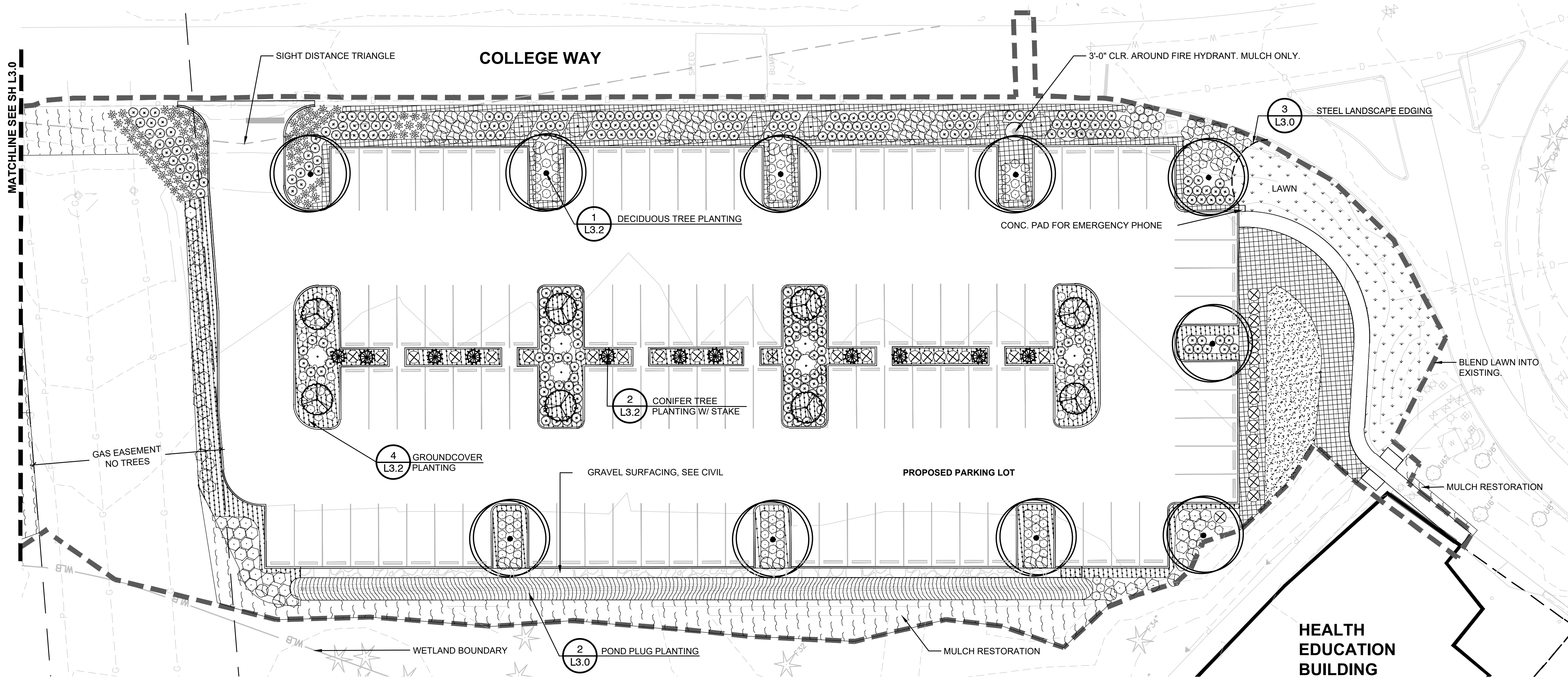
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 ENGINEERING SERVICES
 DATE: 04/08/2024

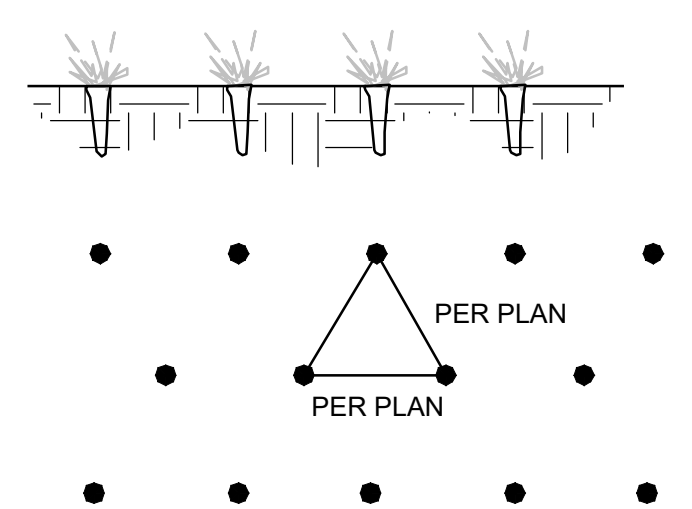
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LEGEND

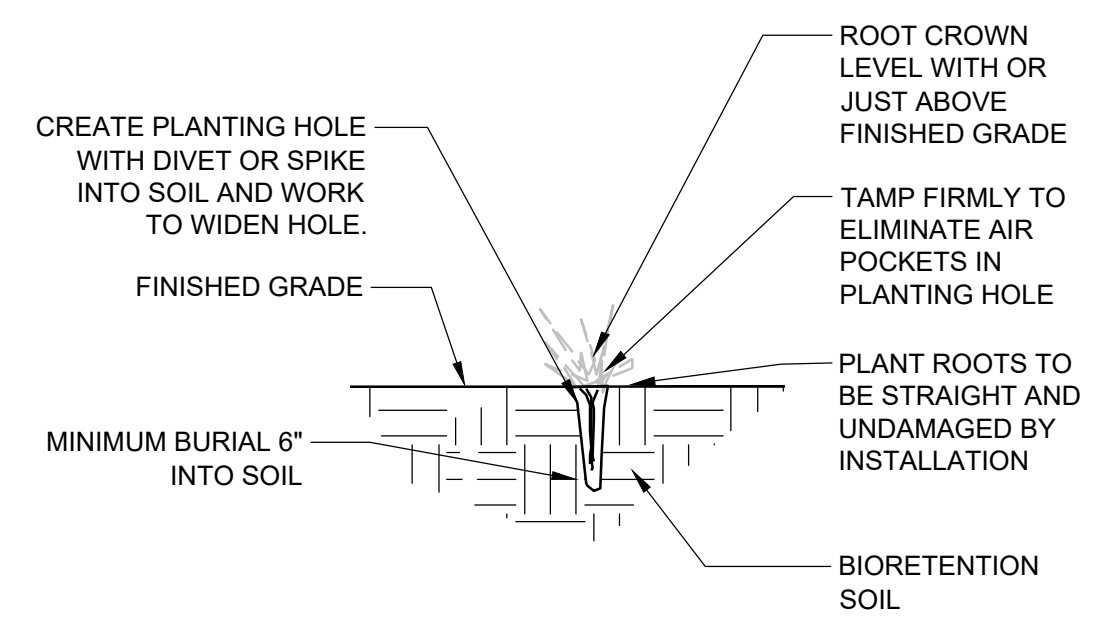
	EXISTING TREE TO REMAIN
	QUARRY SPALL SURFACING, SEE CIVIL
	MULCH RESTORATION AREA

- GENERAL LANDSCAPE NOTES**
1. PROVIDE 3" MEDIUM BARK MULCH TO ALL NEWLY PLANTED AREAS AND MULCH RESTORATION AREAS.
 2. PLANTING SHALL CONFORM TO ALL CITY OF PUYALLUP CODE REQUIREMENTS, INCLUDING PRESERVATION OF ADEQUATE INTERSECTION SIGHT DISTANCE LINES/ TRIANGULAR AREAS.
 3. CONTRACTOR SHALL VERIFY ON-SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
 4. INSTALL AUTOMATIC UNDERGROUND IRRIGATION SYSTEM AS SPECIFIED IN ALL NEW AND RENOVATED LANDSCAPE AREAS. SEE SH L4.0 FOR IRRIGATION PLANS.
 5. THE CONTRACTOR IS RESPONSIBLE FOR READING THE PLANS, SPECIFICATIONS AND NOTES.
 6. THE CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES PRIOR TO INSTALLATION. ANY PLANT MATERIAL QUANTITIES LISTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL NUMBER OF SYMBOLS SHALL HAVE PRIORITY OVER QUANTITY DESIGNATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COUNTING THE TOTAL NUMBER OF PLANTS INDICATED ON THE PLANS AND ESTIMATING GROUNDCOVER QUANTITIES.
 7. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL CONTAINER OR FIELD GROWN TREES, SHRUBS AND GROUNDCOVERS, INCLUDING SEEDS AND SODDED TURF, HYDROMULCHES AND FLATTED GROUNDCOVERS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE AND PAY FOR: PLANTING OF ALL PLANT MATERIALS; THE SPECIFIED GUARANTEE OF ALL PLANT MATERIALS; THE STAKING AND GUYING OF TREES AND THE CONTINUOUS PROTECTION OF ALL PLANT MATERIALS UPON THEIR ARRIVAL AT THE SITE.
 8. SEE L3.3 SHEET FOR PLANTING SCHEDULE AND DETAILS.

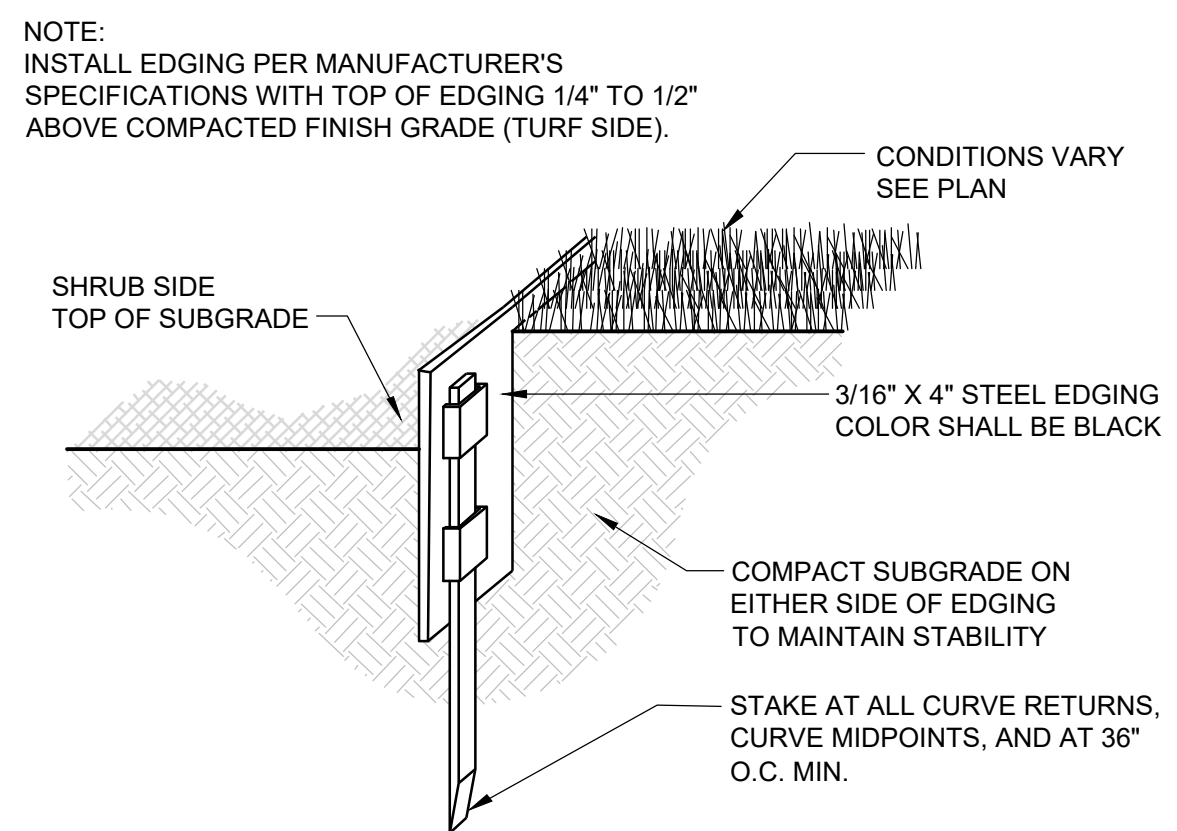
1 PLANTING PLAN - AREA A



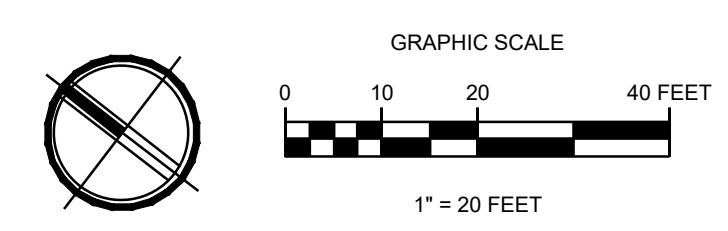
SPACING



2 POND PLUG PLANTING
 3/4" = 1'-0" P-2-PCP-26



3 STEEL EDGING
 1" = 1'-0" P-2-PCP-84



mcb-4rc

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 civil engineer_
 AHBL
 landscape design_
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 electrical engineer_
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City of Puyallup Development & Permitting Services ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



project_
 PUYALLUP CAMPUS PARKING EXPANSION FOR LOT A
 client_
 PIERCE COLLEGE
 location_
 PUYALLUP, WA
 state project number_
 2020 - 5461 (5-1)

Project No. 2012.000
PLANTING PLAN AREA A

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 BID SET 15 MAR 24

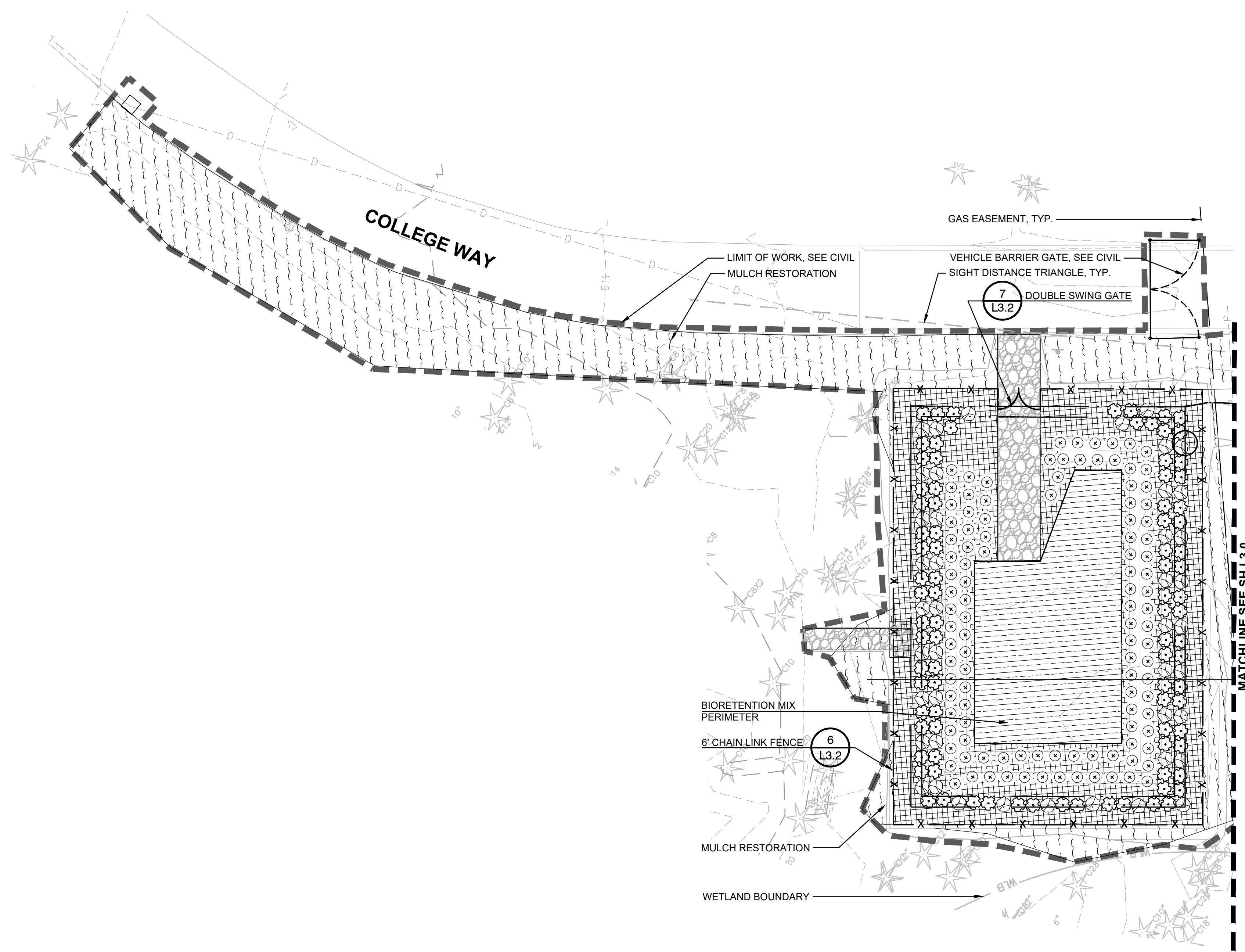
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1 PLANTING PLAN - AREA B

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 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE 04/08/2024

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LEGEND

	EXISTING TREE TO REMAIN
	GRAVEL SURFACING, SEE CIVIL
	MULCH RESTORATION AREA

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City of Puyallup
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Engineering	Public Works
Fire	Traffic

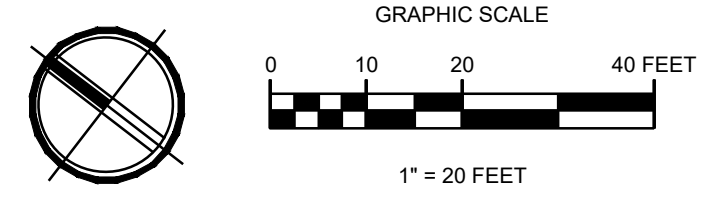


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PUYALLUP CAMPUS PARKING
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client_
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 BY *[Signature]*
 CITY OF PUYALLUP
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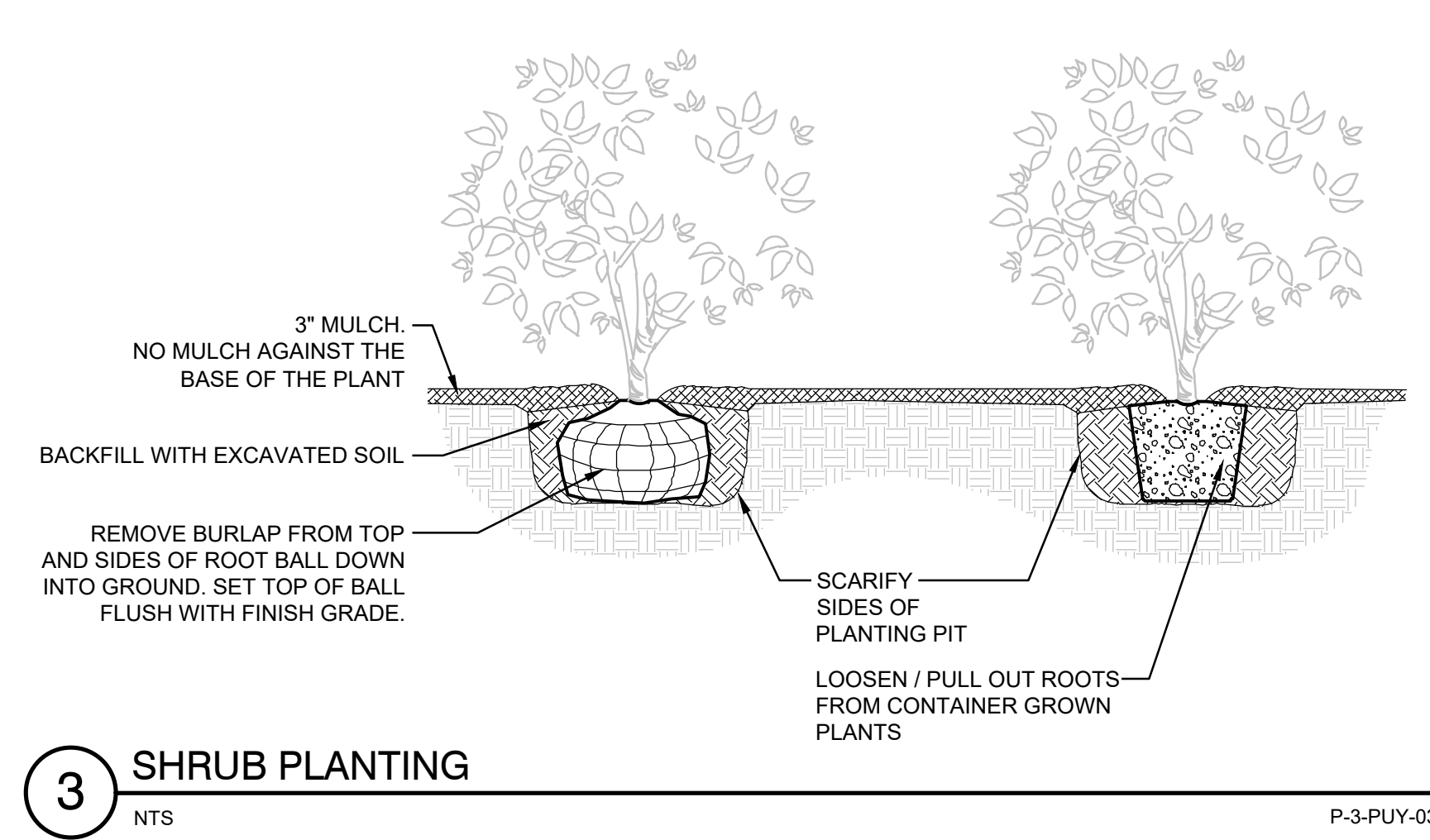
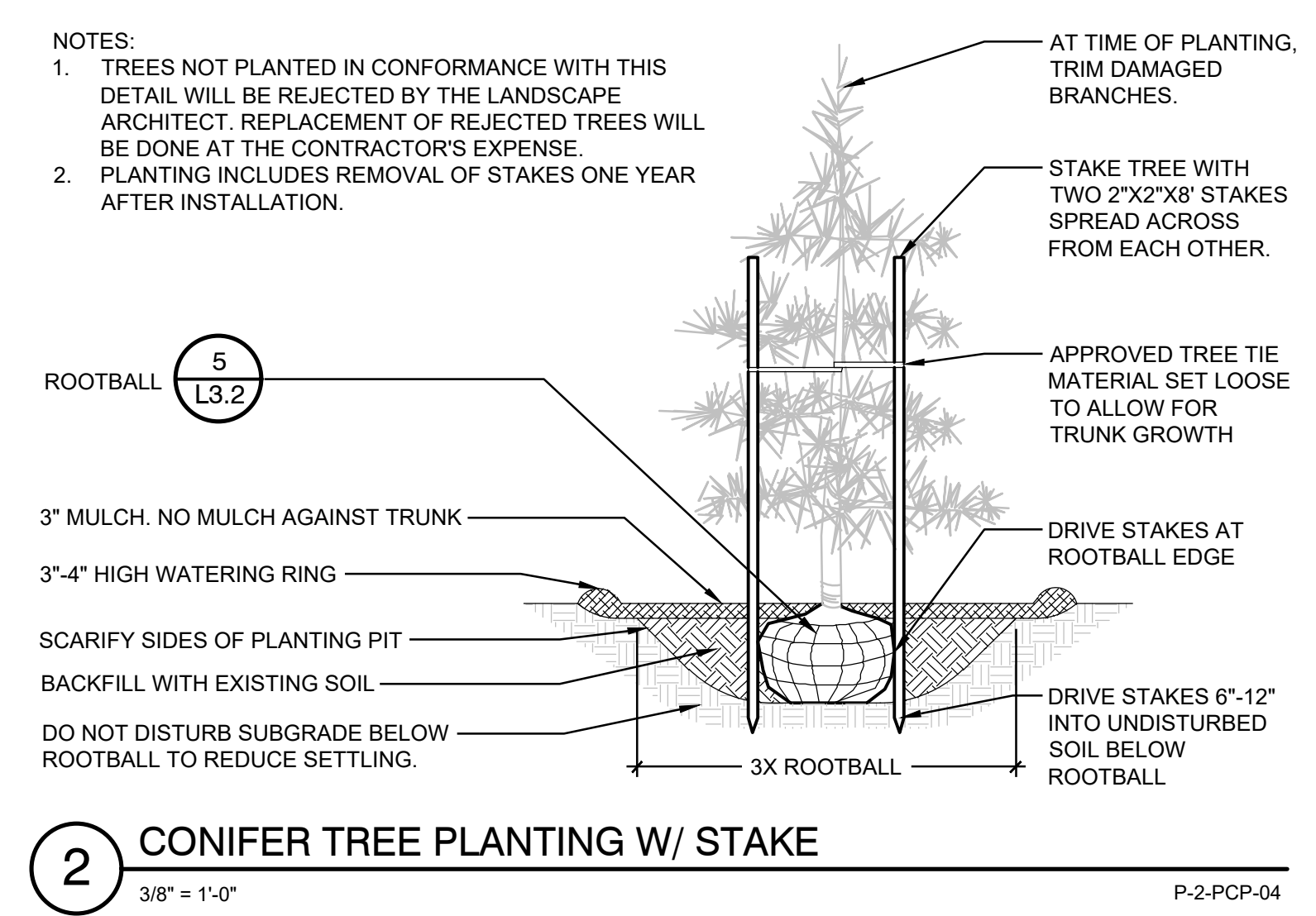
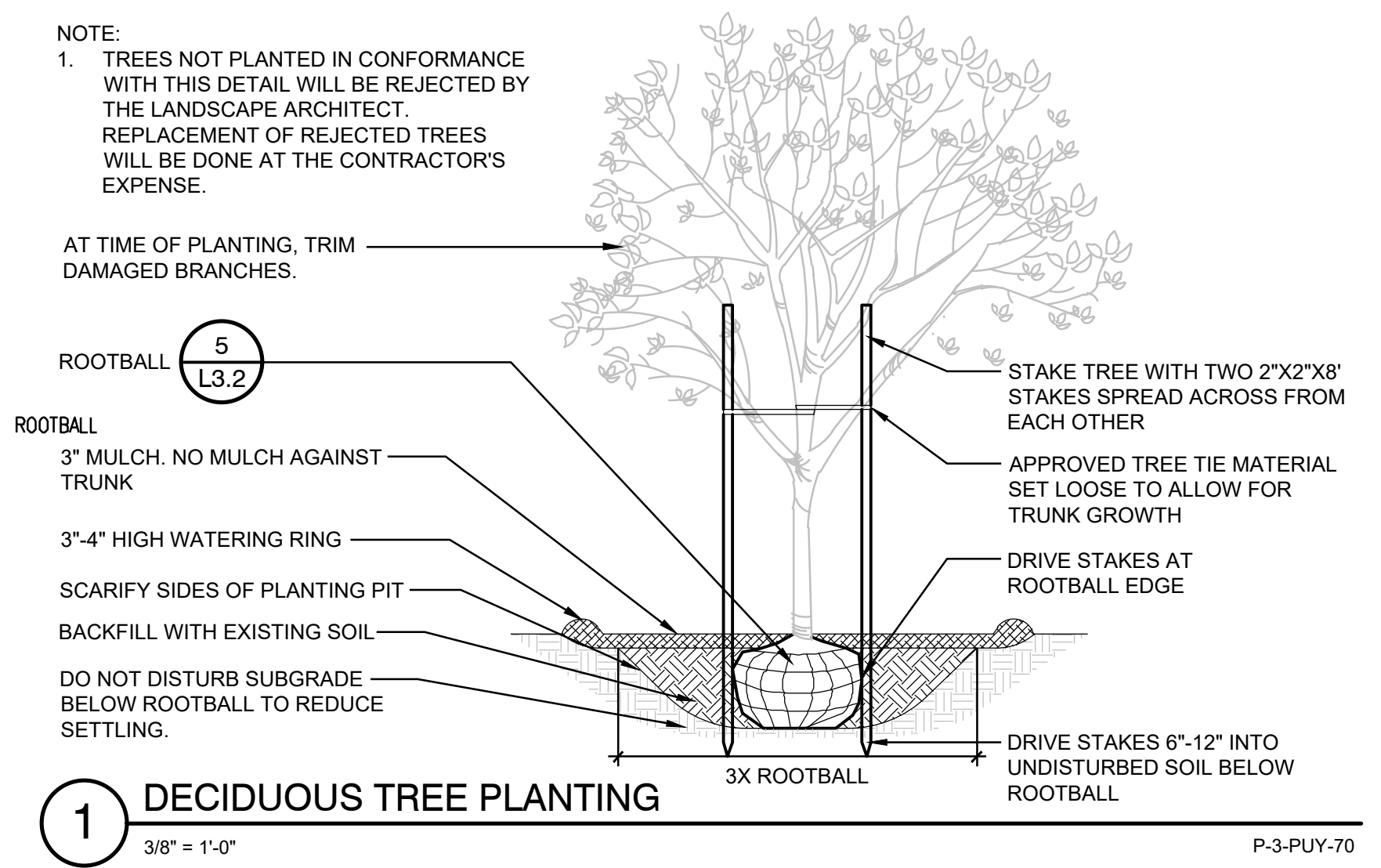
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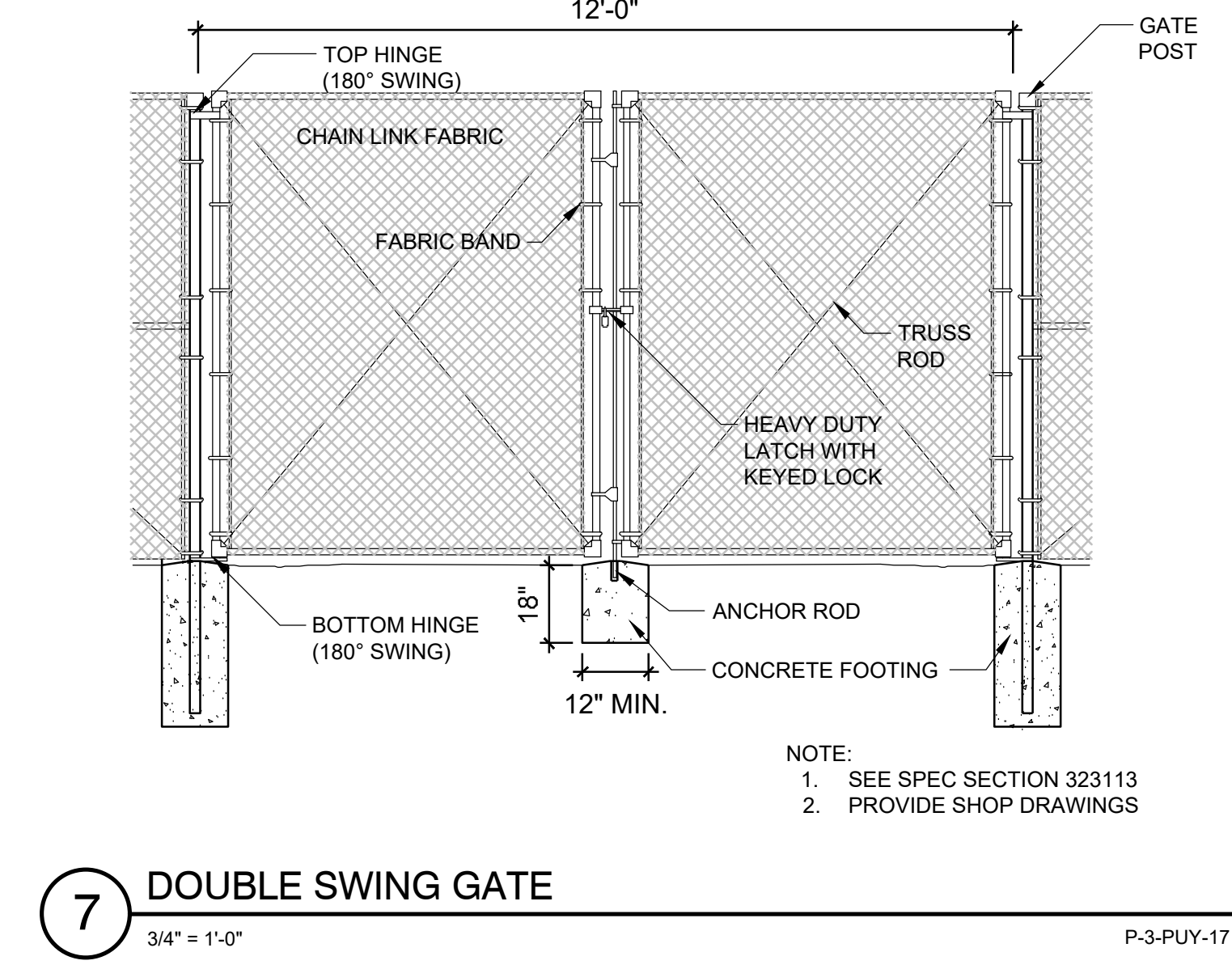
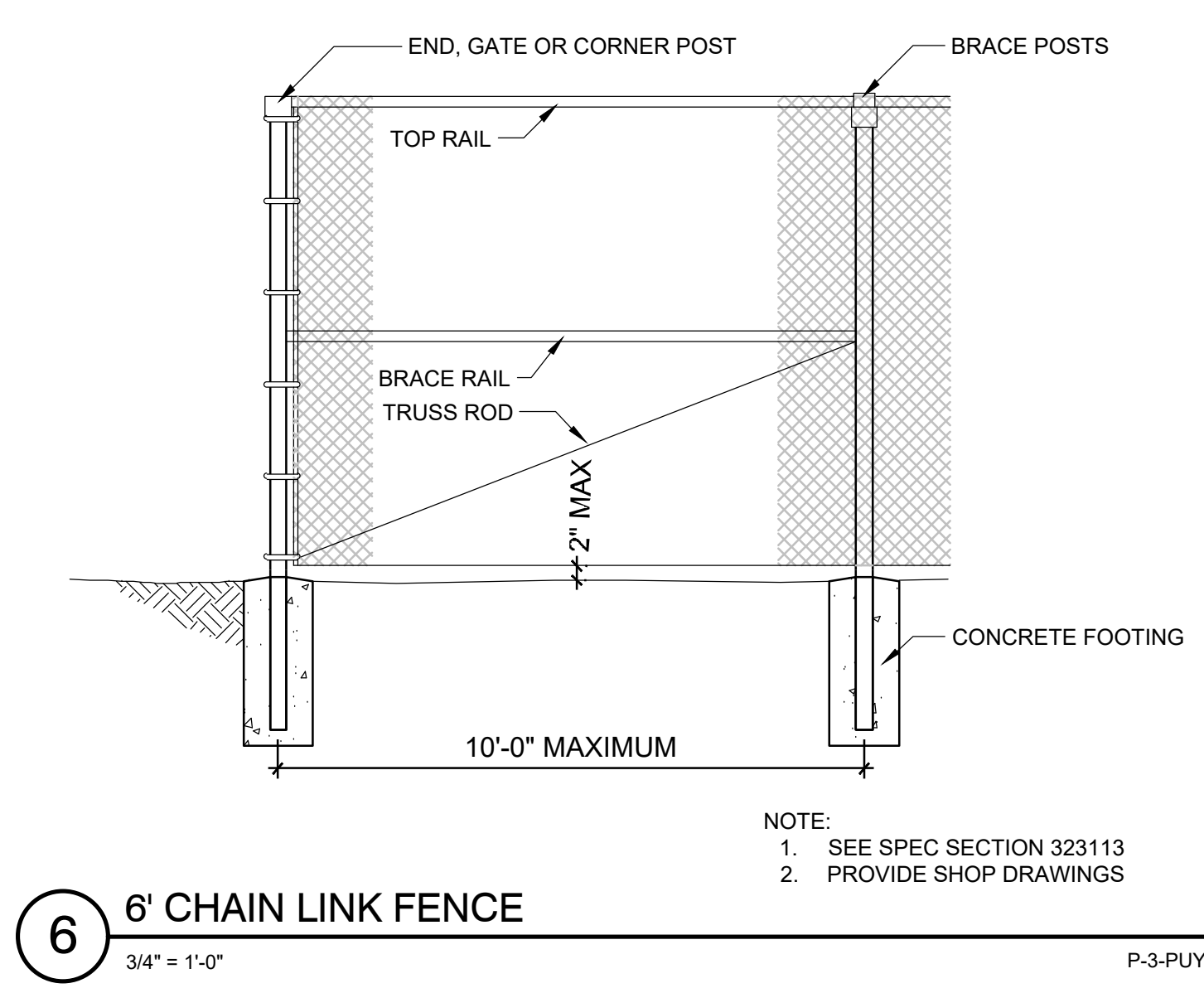
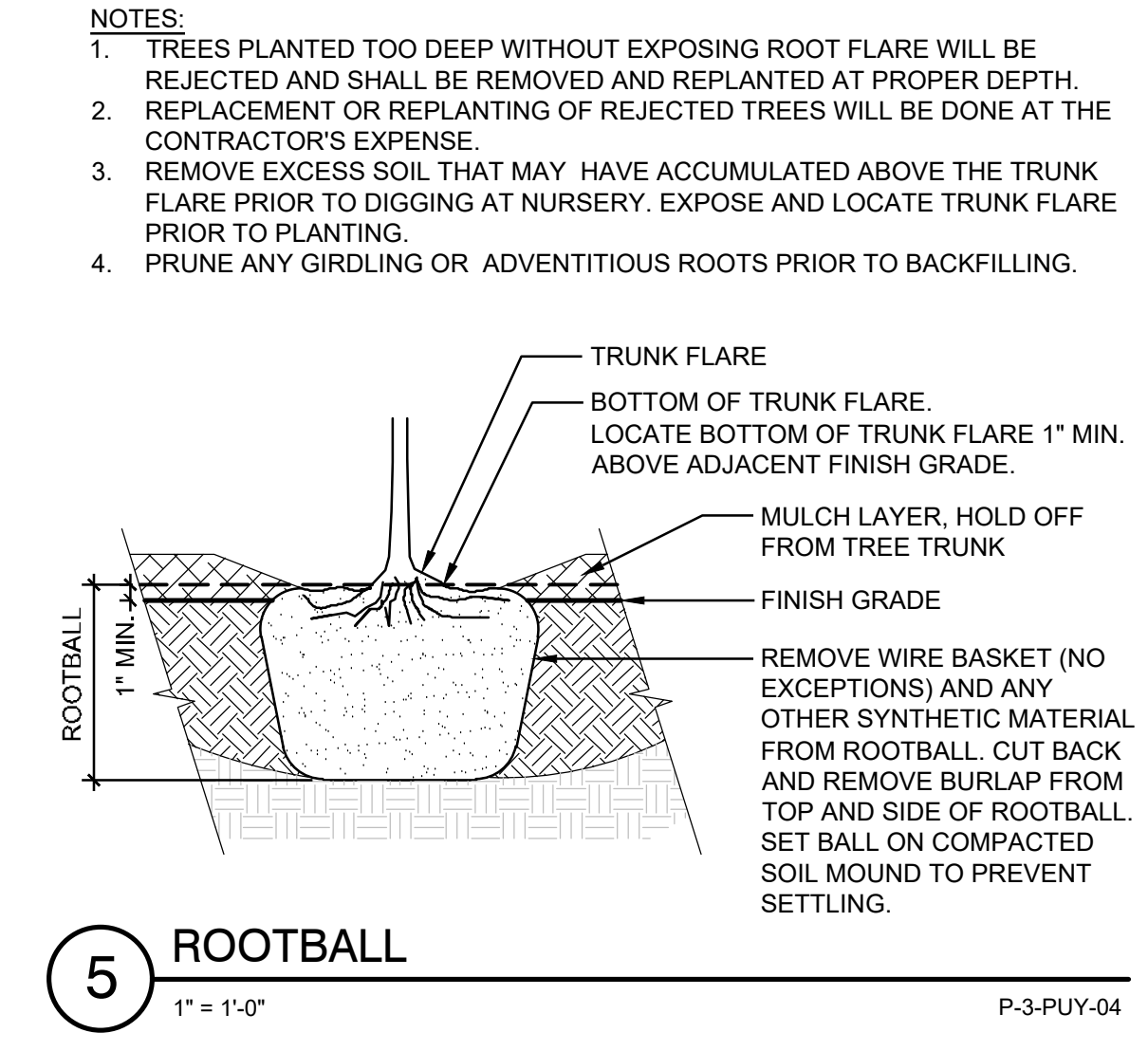
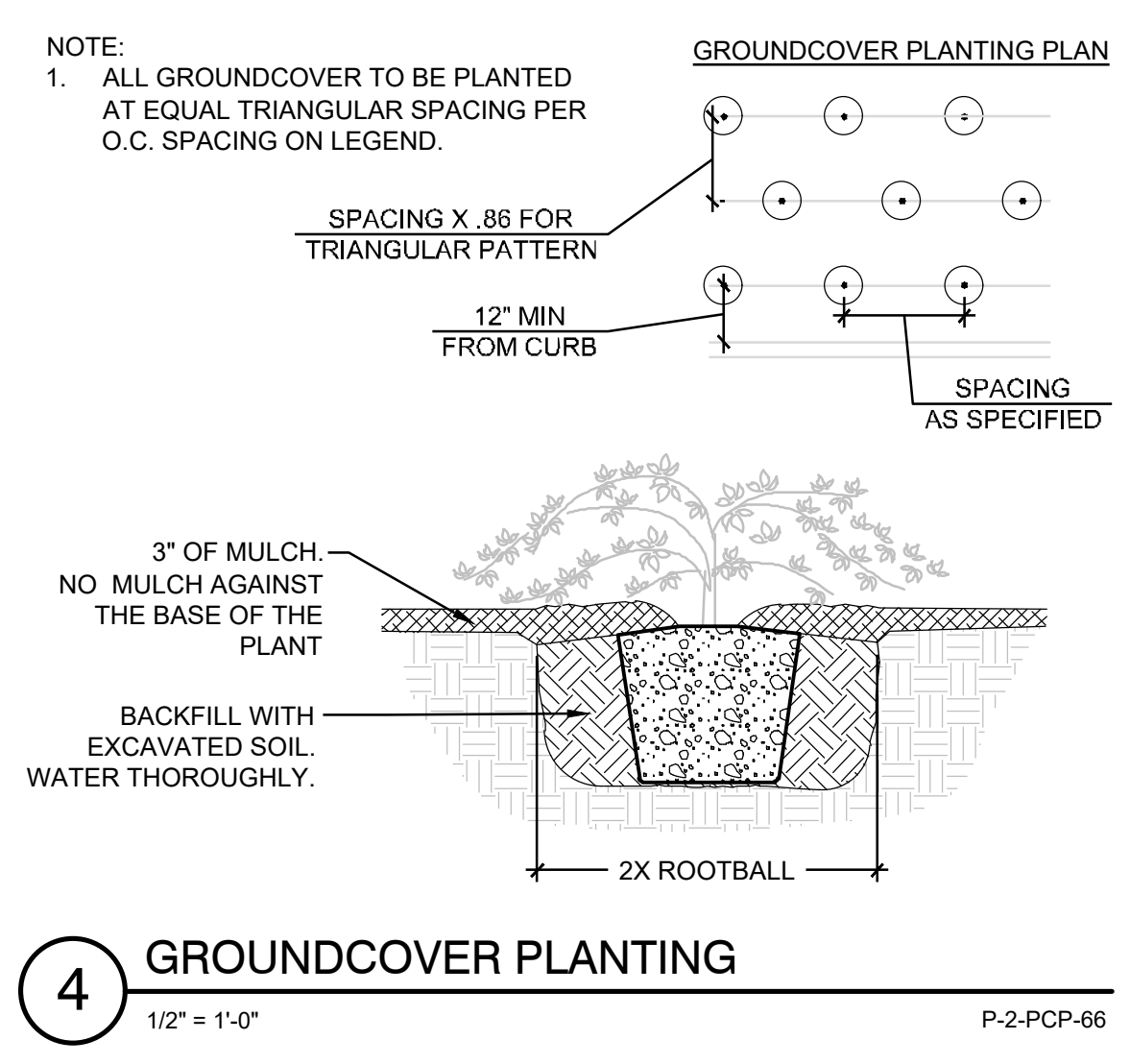
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Building Planning
 Engineering Public Works
 Fire Traffic



PLANT SCHEDULE AREA A

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY
TREES					
	CG	CEDRUS ATLANTICA 'GLAUCA FASTIGIATA'	COLUMNAR BLUE ATLAS CEDAR	6' HT MIN.	11
	GE	GINKGO BILOBA 'BLAGON'	GOLDSPIRE MAIDENHAIR TREE	1.5" CAL MIN.	8
	UO	ULMUS AMERICANA 'LEWIS & CLARK'	PRAIRIE EXPEDITION® AMERICAN ELM	1.5" CAL	10
SHRUBS					
	CK2	CORNUS SERICEA 'KELSEY'	KELSEY'S DWARF RED TWIG DOGWOOD	1 GAL	109
	CK	CORNUS SERICEA 'KELSEY'	KELSEY'S DWARF RED TWIG DOGWOOD	2 GAL	291
	CP3	CORYLOPSIS PAUCIFLORA	WINTER HAZEL	5 GAL	12
	GS	GAULTHERIA SHALLON	SALAL	1 GAL	178
	PK	PENNISSETUM ORIENTALE 'KARLEY ROSE'	KARLEY ROSE FOUNTAIN GRASS	1 GAL	80
	RS	RIBES SANGUINEUM	RED FLOWERING CURRANT	3 GAL	88
	SA	SYMPHORICARPOS ALBUS	COMMON WHITE SNOWBERRY	1 GAL	56
	VO	VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	2 GAL	102
	VD	VIBURNUM DAVIDII	DAVID VIBURNUM	3 GAL	38
SHRUB AREAS					
	CB2	BIORETENTION MIX CORE			1,801 SF
	IO2	CAREX ELATA 'BOWLES GOLDEN'	BOWLES GOLDEN SEDGE	PLUG	140
	JE4	IRIS TENAX	OREGON IRIS	1 GAL	94
	JE5	JUNCUS EFFUSUS	SOFT RUSH	PLUG	140
	JE5	JUNCUS ENSIFOLIUS	SWORDLEAF RUSH	PLUG	164
	CO2	BIORETENTION PERIMETER			2,622 SF
	JE6	CAREX OBNUPTA	SLOUGH SEDGE	PLUG	61
	JE6	JUNCUS EFFUSUS	SOFT RUSH	PLUG	61
	JT2	JUNCUS TENUIS	PATH RUSH	PLUG	91
	SA3	SCIRPUS ACUTUS	HARDSTEM BULRUSH	PLUG	46
	SM2	SCIRPUS MICROCARPUS	SMALL-FRUITED BULRUSH	PLUG	46
GROUND COVERS					
	AU	BIORETENTION MIX CORE			1,801 SF
	FS	ARCTOSTAPHYLOS UVA-URSI	KINNIKINICK	1 GAL	851
	FS	FRAGARIA X 'LIPSTICK'	LIPSTICK ORNAMENTAL STRAWBERRY	4" POT	370
	LH	LAWN MIX HYDROSEED	HYDROSEED LAWN MIX	HYDROSEED	2,138 SF
	RI	RESTORATION SEED MIX - NATIVE SWALE MIX BY SUNMARK SEEDS OR APPROVED EQUAL	RESTORATION SEED MIX	HYDROSEED	957 SF



STATE OF WASHINGTON
 CRAIG R. SKIPTON
 LANDSCAPE ARCHITECT
 No. 1141 EXP. 03/09/2025
 03/14/2024

project_
PUYALLUP CAMPUS PARKING EXPANSION FOR LOT A

client_
PIERCE COLLEGE

location_
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PLANT SCHEDULE AND DETAILS

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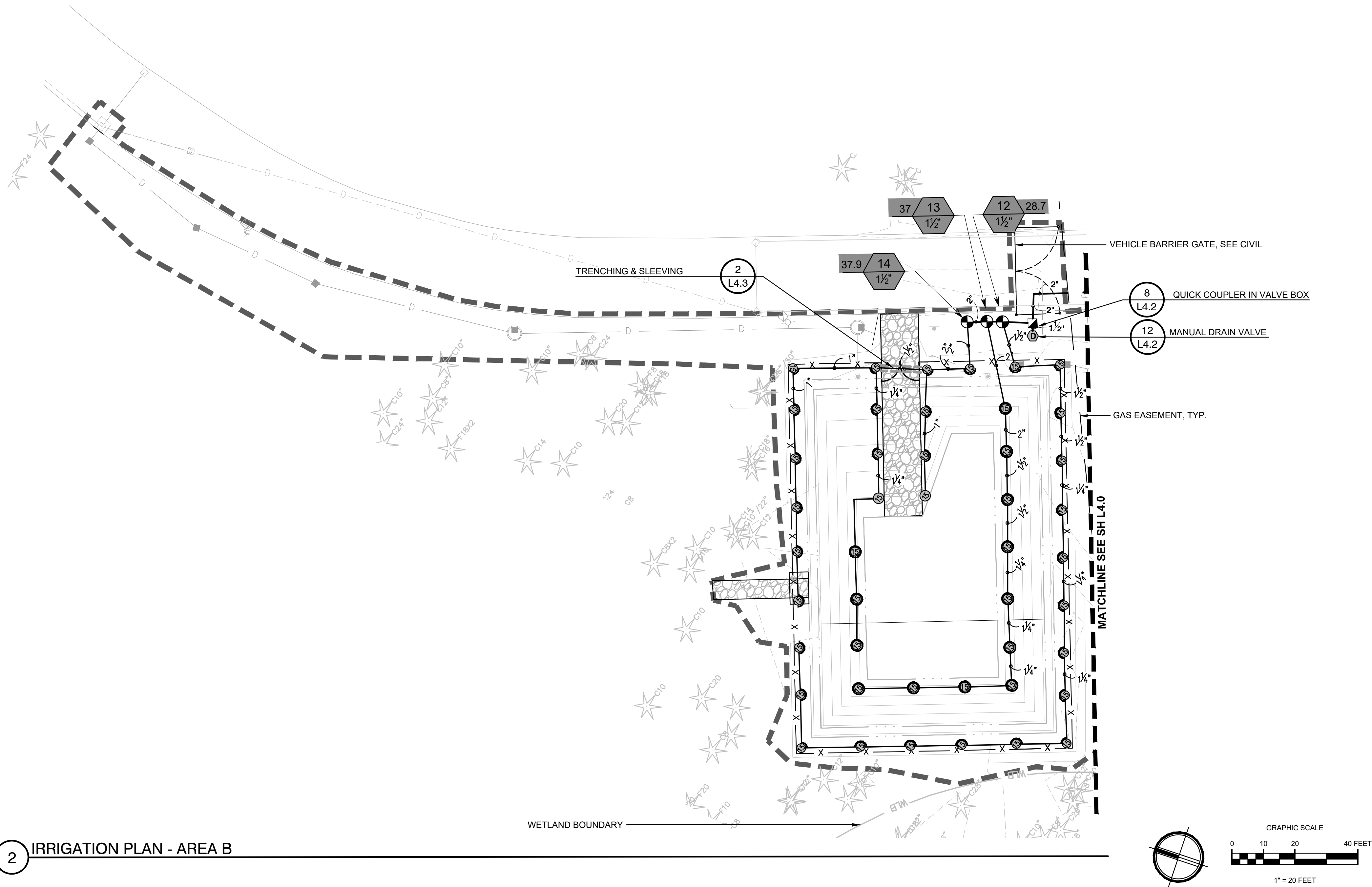
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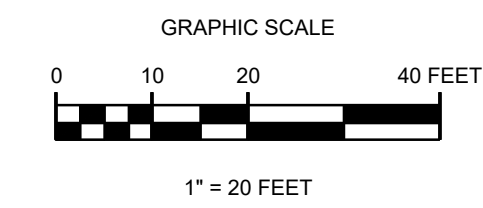
2 IRRIGATION PLAN - AREA B

IRRIGATION SCHEDULE AREA A

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
	RAIN BIRD 1804-PRS 8 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	30
	RAIN BIRD 1804-PRS 10 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	30
	RAIN BIRD 1804-PRS 12 SERIES MPR TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	30
	RAIN BIRD 1804-PRS ADJ TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. PRESSURE REGULATING.	30
	RAIN BIRD 1812-PRS 15 SERIES MPR SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	30
	RAIN BIRD XCZ-100-PRB-LC WIDE FLOW DRIP CONTROL KIT, FOR LIGHT COMMERCIAL USES. 1" PEB VALVE, WITH 1" PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 20GPM.	
	PIPE TRANSITION POINT ABOVE GRADE	
	PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.	
	DRIP FLUSH VALVE	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-06-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.6 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.
	RAIN BIRD PEB 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	RAIN BIRD 5-LRC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY.
	ISOLATION VALVE
	RAIN BIRD EFB-CP-PRS-D 1-1/2" 1", 1-1/4", 1-1/2", 2" BRASS MASTER VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN. GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE, AND PURPLE HANDLE COVER DESIGNATES NON-POTABLE WATER USE. WITH PRESSURE REGULATOR.
	MANUAL DRAIN VALVE
	FEBCO 850 1-1/2" DOUBLE CHECK BACKFLOW PREVENTION, 1/2IN. TO 2IN.

	RAIN BIRD ESP-LXD 50 STATION, 2-WIRE DECODER BASED CONTROLLER. (1) ESP-LXD 50-STATION, INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE. SYSTEM REQUIREMENTS: RAIN BIRD FD-XXX-TURF FIELD DECODERS, PAIGE ELECTRIC CABLE P7072D & RAIN BIRD WC20 DRY SPLICES ONLY. GROUND SYSTEM W/ (X) LSP-TURF LINE SURGE PROTECTORS IN RAIN BIRD ROUND VALVE BOXES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
	RAIN BIRD FS-150-B 1-1/2" FLOW SENSOR, BRASS MODEL. SUGGESTED OPERATING RANGE 4.0 GPM TO 80.0 GPM. SIZE FOR FLOW NOT ACCORDING TO PIPE SIZE. RAIN BIRD COMPATIBLE CONTROLLERS: ESP-LXIVM(P) LXD LXME2(P) ME3. OR CONTROLLERS ACCEPTING CUSTOM K-FACTOR AND OFFSET. INSTALL IN RAIN BIRD VALVE BOX.
	WATER METER 1-1/2" EXISTING IRRIGATION METER
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size



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CITY OF PUYALLUP
ENGINEERING SERVICES
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LEGEND

EXISTING TREE TO REMAIN

- NOTES**
1. THE POINT OF CONNECTION LOCATION SHOWN ON THIS PLAN IS APPROXIMATE. CONTRACTOR SHALL COORDINATE LOCATION WITH OWNER IN THE FIELD PRIOR TO INSTALLATION.
 2. REPAIR LANDSCAPING AND EXISTING IRRIGATION AT LIGHT AND CONTROLLER LOCATIONS.
 3. SEE CONTROLLER AND DRIP IRRIGATION NOTES ON SHEET L4.0
 4. SEE SHEET L3.3 FOR PLANT SCHEDULE

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Engineering	Public Works
Fire	Traffic



project_
PUYALLUP CAMPUS PARKING
EXPANSION FOR LOT A

client_
PIERCE COLLEGE

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Project No. 2012.000

**IRRIGATION
PLAN
AREA A**

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City of Puyallup
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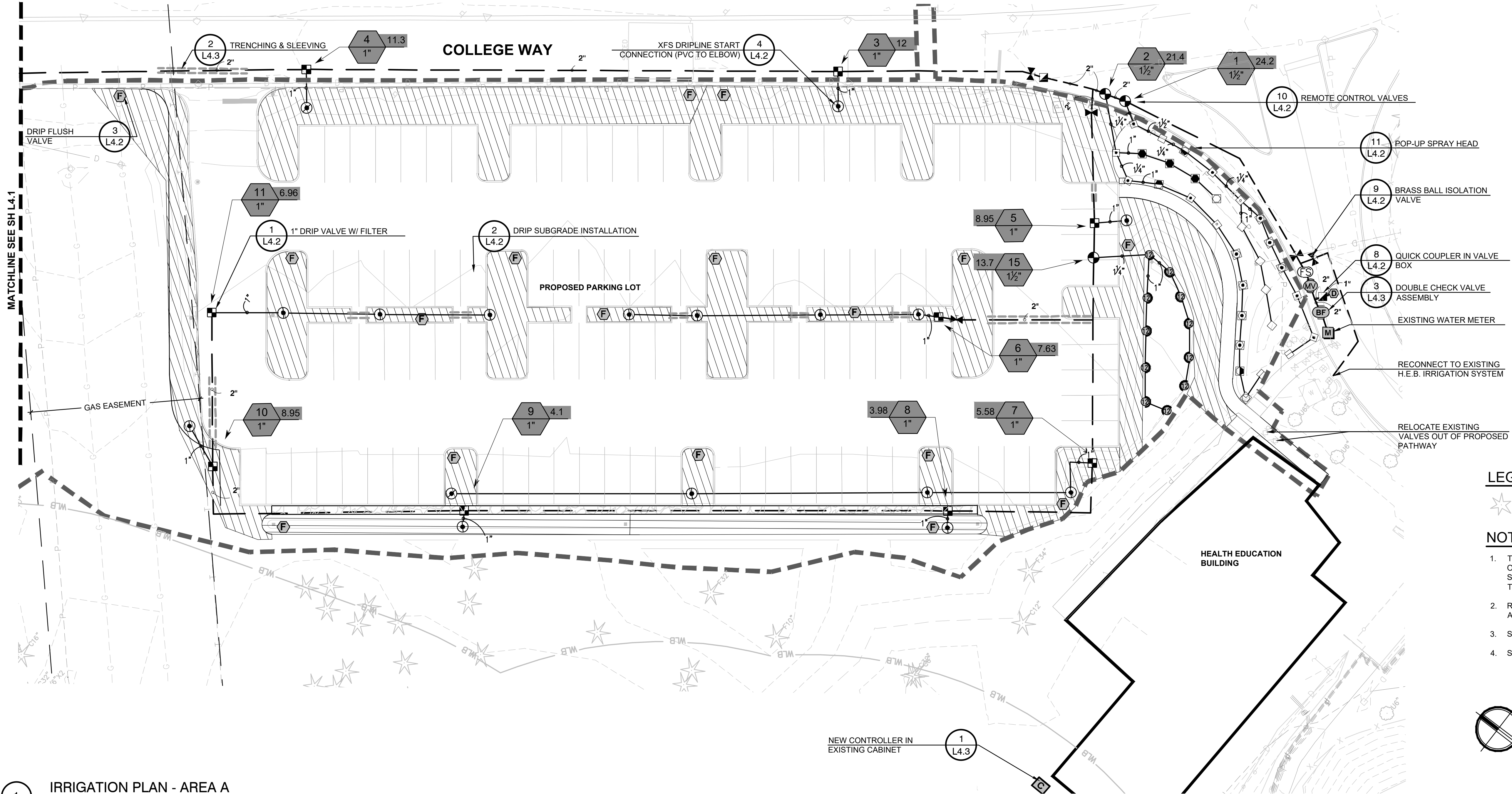
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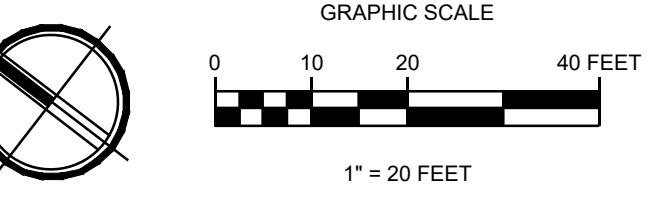


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2. REPAIR LANDSCAPING AND EXISTING IRRIGATION AT LIGHT AND CONTROLLER LOCATIONS.
3. SEE SHEET L4.1 FOR IRRIGATION SCHEDULE
4. SEE SHEET L3.3 FOR PLANT SCHEDULE



1 IRRIGATION PLAN - AREA A

POINT OF CONNECTION NOTES

1. CONTRACTOR SHALL VERIFY EXISTING STATIC PRESSURE 75 AT THE METER AND SUBMIT WRITTEN VERIFICATION TO THE LANDSCAPE ARCHITECT. NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES GREATER THAN 5 POUNDS OF DESIGN PRIOR TO INSTALLATION OF ANY IRRIGATION EQUIPMENT.
2. POINT OF CONNECTION MAY BE SHOWN IN HARD SURFACE AREAS OR OUTSIDE LANDSCAPE AREAS FOR GRAPHIC CLARITY. LOCATE ALL IRRIGATION LINES IN LANDSCAPE AREAS OR IN SLEEVES UNDER PAVEMENT.
3. POC NUMBER 01: EXISTING 1-1/2" IRRIGATION METER.
 - 3.1. THE SYSTEM DESIGN IS BASED ON OPERATING 1 ZONE AT A TIME USING AN EXISTING IRRIGATION METER. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATION.
4. IRRIGATION CONTRACTOR SHALL TIE INTO METER AND RUN PIPE TO BACKFLOW PREVENTER.
5. NOTIFY THE OWNER IMMEDIATELY IF THE POINT OF CONNECTION ASSUMPTIONS MADE HERE DO NOT MATCH FIELD CONDITIONS.

IRRIGATION SYSTEM DESIGN NOTES

1. WATER PURVEYOR: CITY OF PUYALLUP.
2. CONTACT INFORMATION: 253-841-5505
3. THIS DESIGN ADDS A NEW IRRIGATION SYSTEM FOR THE AREAS AFFECTED BY CONSTRUCTION OF NEW PARKING LOTS.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING IRRIGATION EQUIPMENT AND ZONES IMPACTED BY THE CONSTRUCTION OF THIS PROJECT PRIOR TO CONSTRUCTION. PROVIDE SHOP DRAWINGS INDICATING ZONE FLOW AND HEAD LOCATION OF AFFECTED ZONES AND HOW THE CONTRACTOR INTENDS TO ADJUST THE EXISTING SYSTEM TO ACCOMMODATE NEW ZONES.
5. PROVIDE TEMPORARY IRRIGATION TO ALL UNDISTURBED ZONES DURING CONSTRUCTION.

CONTROLLER NOTES

1. CONTROLLER: INSTALL NEW PEDESTAL MOUNTED TWO-WIRE BASELINE CONTROLLER IN EXISTING CABINET ON WEST SIDE OF H.E.B. CONFIRM LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
 - 1.1. PROVIDE COMMUNICATION CONNECTION FROM CONTROLLER TO FLOW METER AND MASTER VALVE.
 - 1.2. COORDINATE COMMUNICATION CONNECTION TO BUILDING ETHERNET/WIFI WITH LOW VOLTAGE CONTRACTOR(S).
 - 1.3. INSTALL CONTROLLER IN CABINET PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUNDING PER MANUFACTURER'S REQUIREMENTS.
 - 1.4. PROGRAM CONTROLLER WITH TEMPORARY ESTABLISHMENT AND PERMANENT WATERING SCHEDULE. COORDINATE WITH OWNER FOR CONNECTION TO CENTRAL CONTROL SERVER AND PROGRAMMING.
2. CONTROL WIRE SHALL BE INSTALLED IN 2" SCH. 40 ELECTRICAL CONDUIT AT HARDSCAPE CROSSINGS.
3. INSTALL SPARE CONTROL WIRE (ORANGE COLOR) FROM CONTROLLER TO FARTHEST VALVE.

VALVE SCHEDULE AREA A

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB	1-1/2"	TURF SPRAY	24.23		35.7	46.6	1.22 in/h
2	RAIN BIRD PEB	1-1/2"	TURF SPRAY	21.39		36.6	46.9	1.25 in/h
3	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	12		41.7	50.2	0.43 in/h
4	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	11.25		40.5	49.1	0.43 in/h
5	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	8.95		37.2	45.3	0.43 in/h
6	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	7.63		36.2	44.3	0.43 in/h
7	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	5.58		34.1	42.1	0.43 in/h
8	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	3.98		32.6	40.6	0.43 in/h
9	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	4.1		32.7	40.7	0.43 in/h
10	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	8.95		37.3	45.7	0.43 in/h
11	RAIN BIRD XCZ-100-PRB-LC	1"	AREA FOR DRIPLINE	6.96		36.0	44.2	0.43 in/h
12	RAIN BIRD PEB	1-1/2"	SHRUB SPRAY	28.66		39.4	54.2	0.79 in/h
13	RAIN BIRD PEB	1-1/2"	SHRUB SPRAY	37		36.6	54.5	0.78 in/h
14	RAIN BIRD PEB	1-1/2"	SHRUB SPRAY	37.89		36.1	54.4	0.85 in/h
15	RAIN BIRD PEB	1-1/2"	SHRUB SPRAY	13.65		34.6	43.4	1.2 in/h

DRIP IRRIGATION NOTES

1. SEE APPLICABLE GENERAL IRRIGATION NOTES.
2. DO NOT EXCEED MAXIMUM VERTICAL DISTANCE BETWEEN PRESSURE CONTROL VALVES RECOMMENDED BY MANUFACTURER.
3. DRIP LINE HATCH DIRECTION AND SPACING ON PLANS IS DIAGRAMMATIC. PLACE PER DETAILS, LEGEND, AND MANUFACTURER'S RECOMMENDATIONS.
4. IRRIGATION CONTRACTOR SHALL INSTALL PROVISIONS FOR WINTERIZATION BY PROVIDING BOTH MANUAL DRAINS AT ALL LOW POINTS (AUTOMATIC DRAIN VALVES ARE NOT PERMITTED) AND A MEANS TO BLOW OUT IRRIGATIONS SYSTEM PIPES WITH PRESSURIZED AIR. SLOPE PIPE AT 1/2" MIN. TO DRAINS. PRESSURIZED AIR NOT TO EXCEED 20 PSI ON DRIP IRRIGATION LINES.
5. INSTALL AIR RELIEF VALVES PER MANUFACTURER'S RECOMMENDATIONS, IN CONTROL VALVE BOXES.
6. INSTALL DRIP LINES ACCORDING TO MANUFACTURER'S INSTRUCTIONS. NO DRIP TUBING SHALL BE LEFT EXPOSED.

CRITICAL ANALYSIS

Generated: 2024-01-18 11:11

P.O.C. NUMBER: 01
 Water Source Information: EXISTING IRRIGATION METER

FLOW AVAILABLE
 Water Meter Size: 1-1/2"
 Flow Available: 75 GPM

PRESSURE AVAILABLE
 Static Pressure at POC: 75 PSI
 Elevation Change: 5.00 ft
 Service Line Size: 3"
 Length of Service Line: 20 ft
 Pressure Available: 73 PSI

DESIGN ANALYSIS
 Maximum Station Flow: 37.89 GPM
 Flow Available at POC: 75 GPM
 Residual Flow Available: 37.11 GPM

Critical Station: 13
 Design Pressure: 30 PSI
 Friction Loss: 2.8 PSI
 Fittings Loss: 0.28 PSI
 Elevation Loss: 0 PSI
 Loss through Valve: 3.53 PSI
 Pressure Req. at Critical Station: 36.6 PSI
 Loss for Fittings: 0.57 PSI
 Loss for Main Line: 5.71 PSI
 Loss for POC to Valve Elevation: 0 PSI
 Loss for Backflow: 6.5 PSI
 Loss for Master Valve: 2.27 PSI
 Loss for Water Meter: 2.88 PSI
 Critical Station Pressure at POC: 54.5 PSI
 Pressure Available: 73 PSI
 Residual Pressure Available: 18.5 PSI

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DATE: March 14, 2024 FILENAME: \\ahbl.com\data\Projects\2020\220071840_LAN\CAD\LOT A REDESIGN\2200718.40 - SH - IRRIGATION.dwg

APPROVED
 BY *[Signature]*
 CITY OF PUYALLUP
 ENGINEERING SERVICES
 DATE 04/08/2024

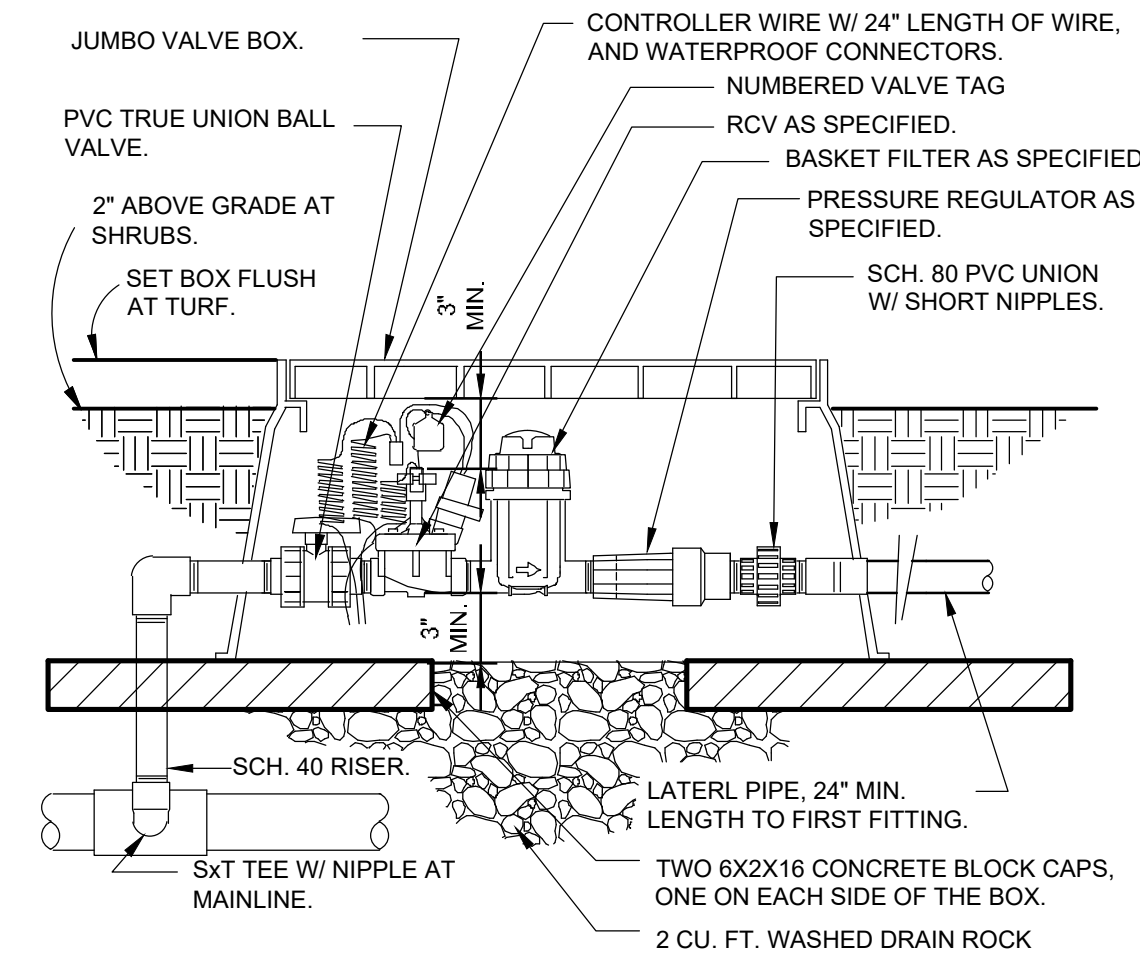
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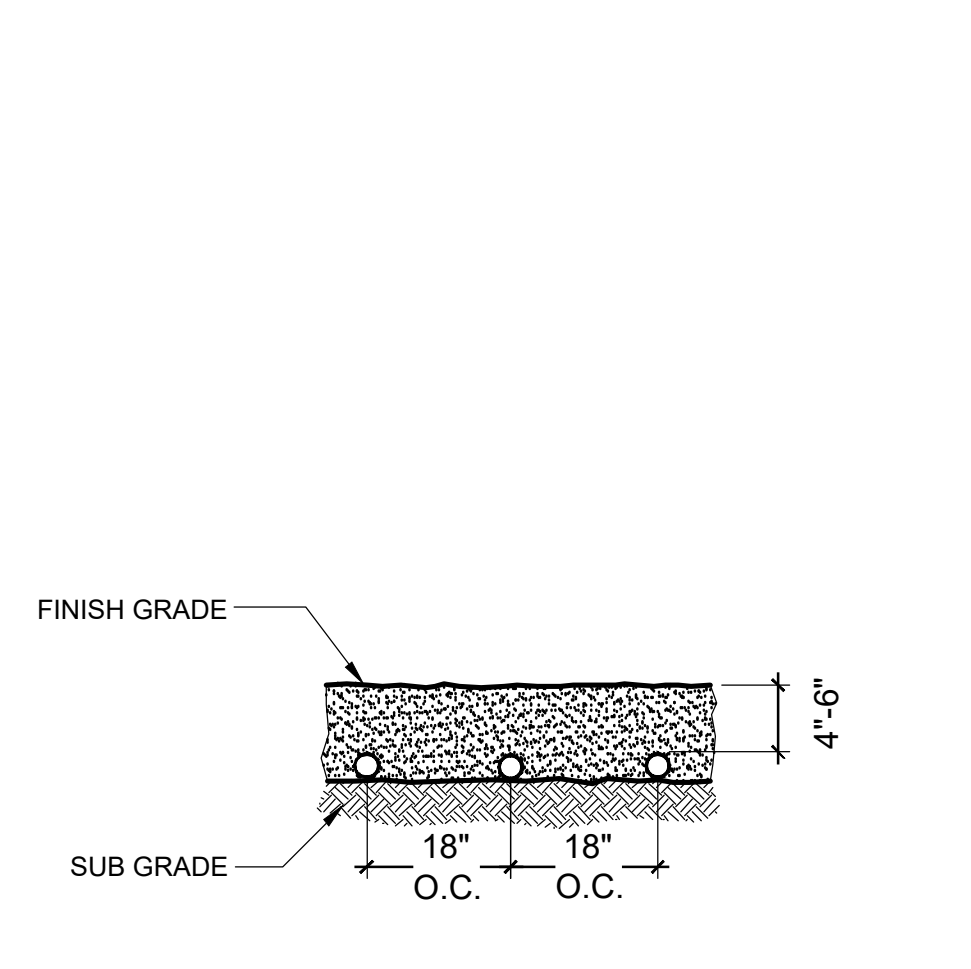
architect_
 MCGRANAHAN ARCHITECTS
 civil engineer_
 AHBL
 landscape design_
 AHBL
 electrical engineer_
 HARGIS ENGINEERS

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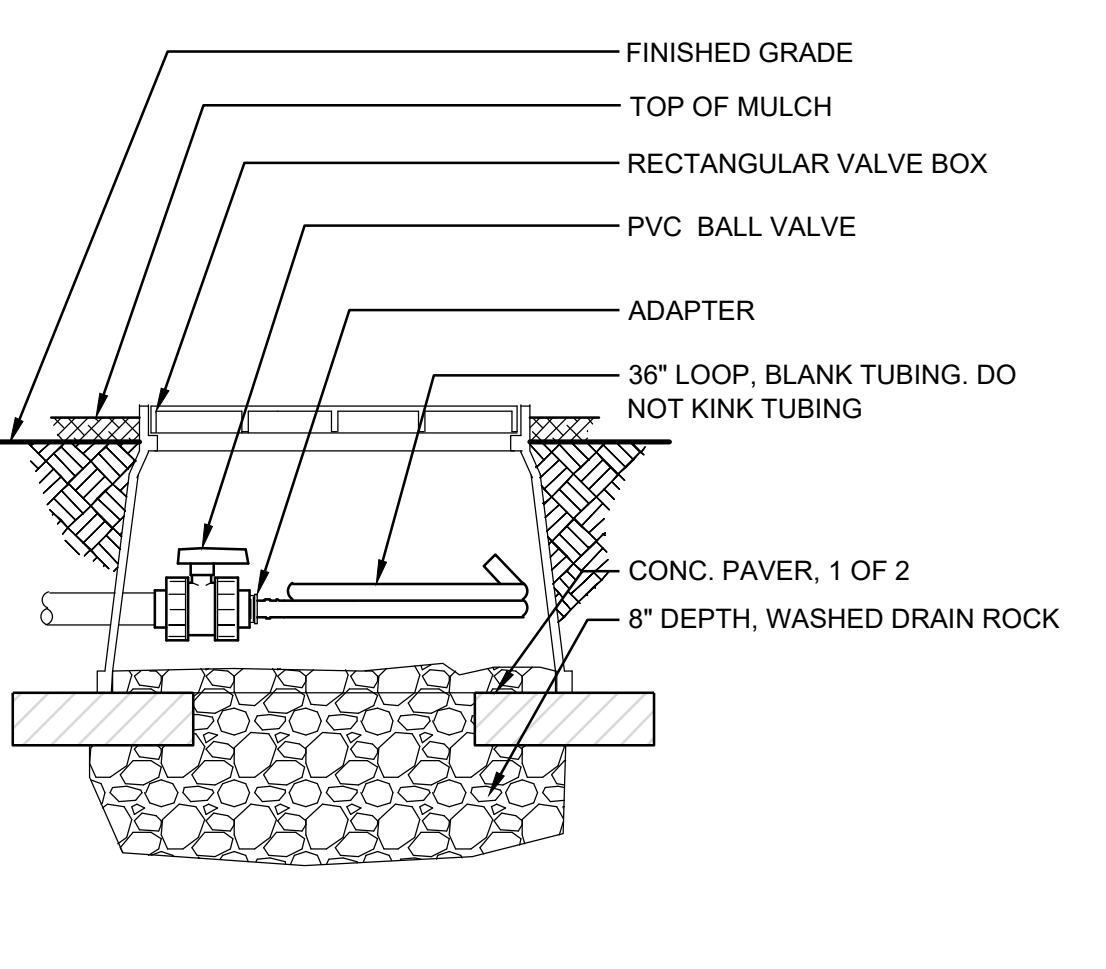
Building	Planning
Engineering	Public Works
Fire	Traffic



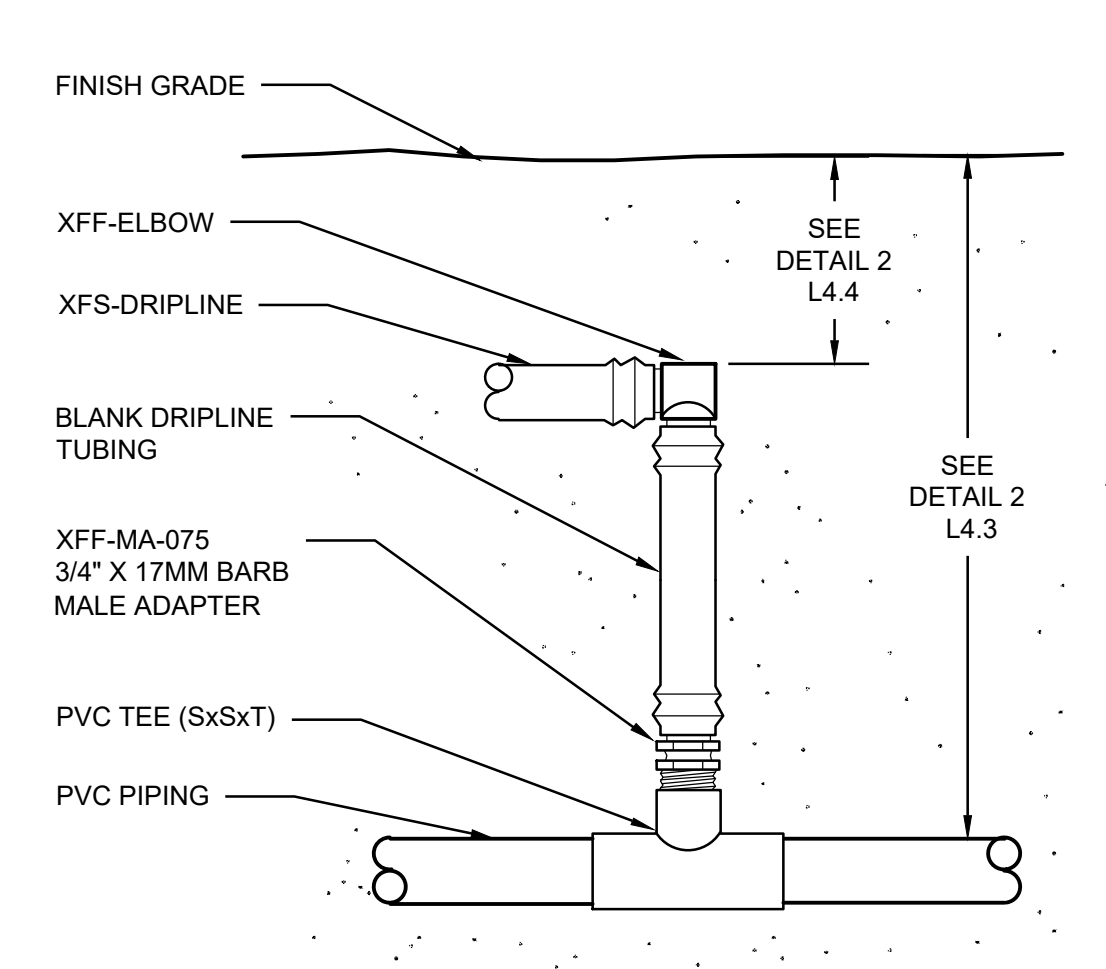
1 1" DRIP VALVE W/ FILTER
 1 1/2" = 1'-0"
 P-2-PCP-63



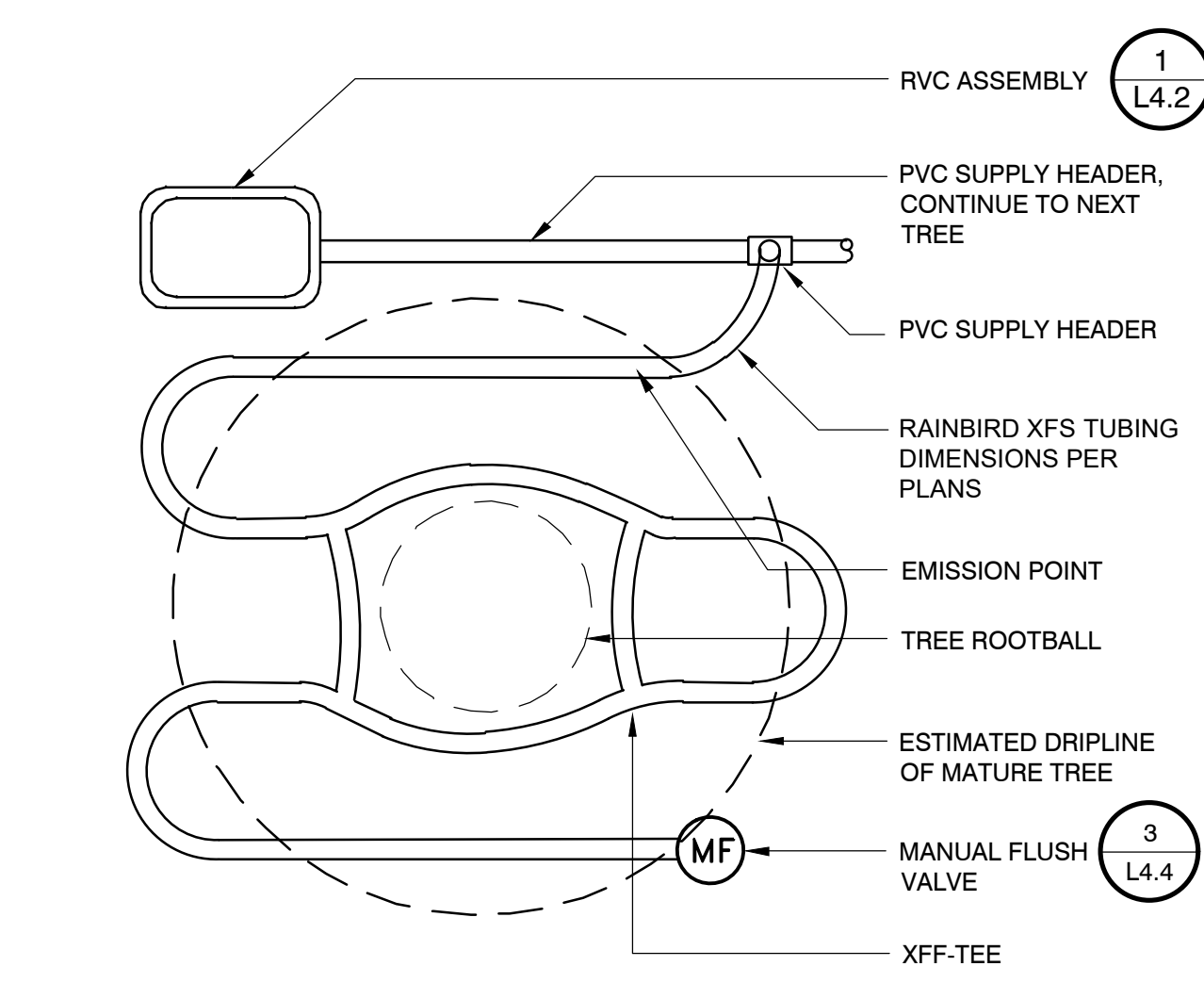
2 DRIP SUBGRADE INSTALLATION
 1" = 1'-0"
 P-2-PCP-48



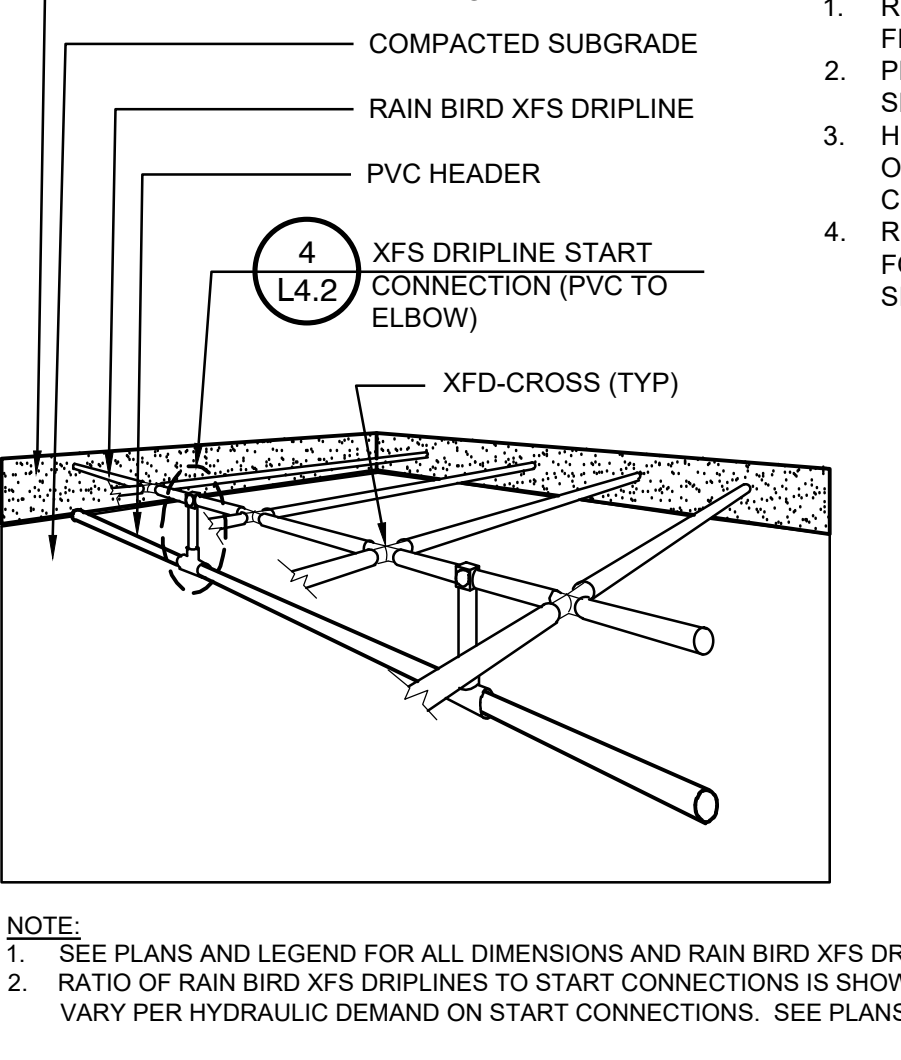
3 DRIP FLUSH VALVE
 1 1/2" = 1'-0"
 P-2-PCP-37



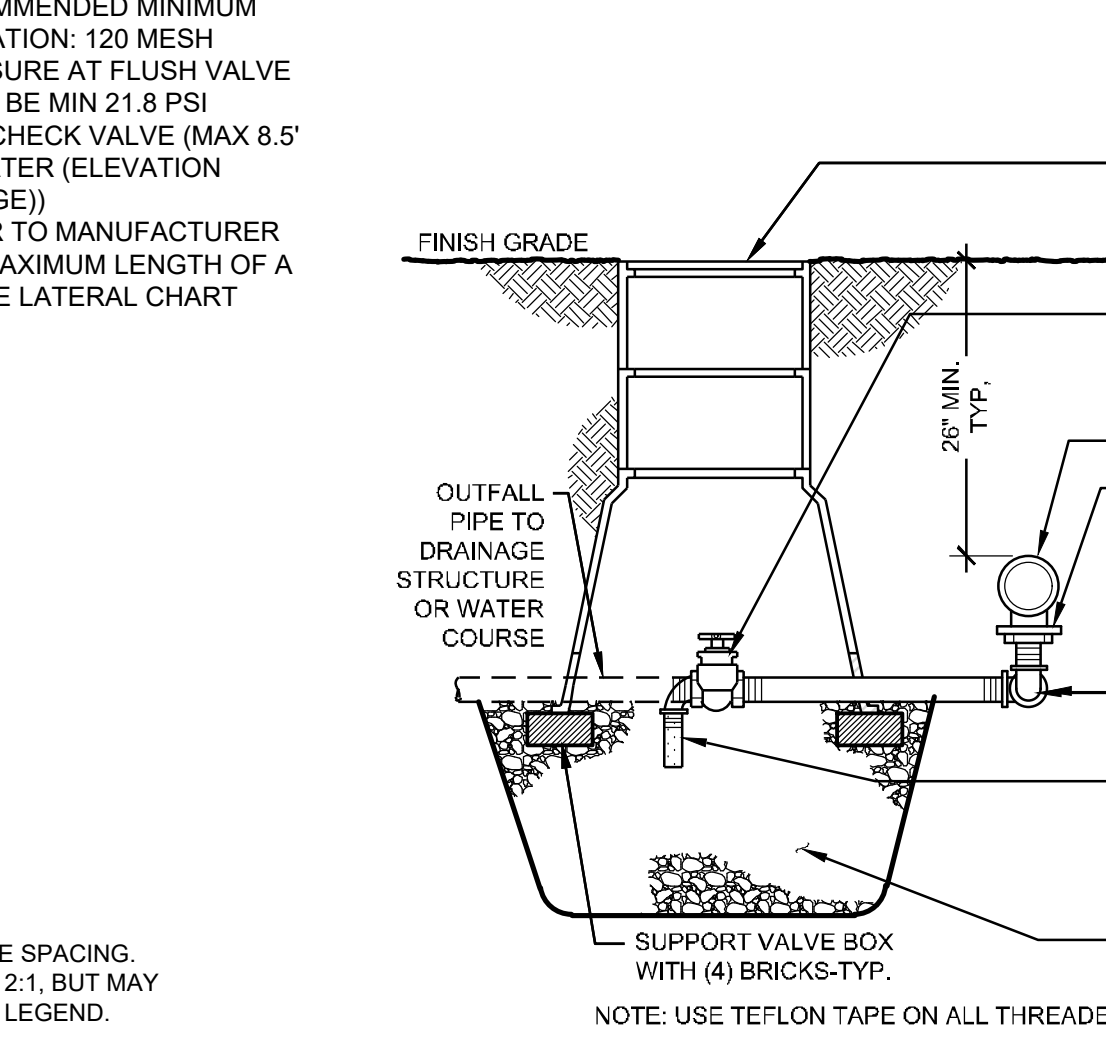
4 XFS DRIPLINE START CONNECTION (PVC TO ELBOW)
 NTS



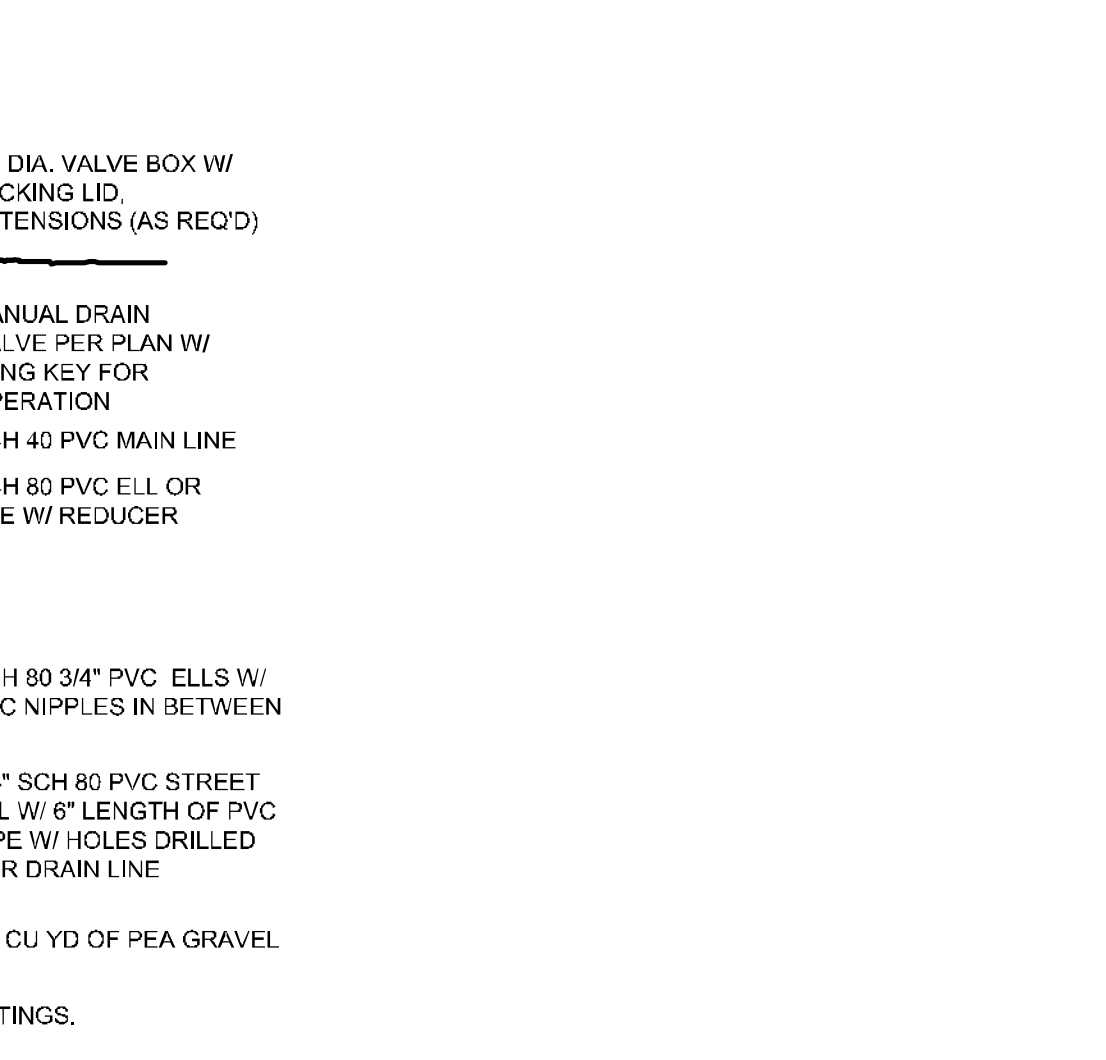
5 XFS DRIPLINE TUBING FOR TREE
 1" = 1"
 P-2-PCP-11



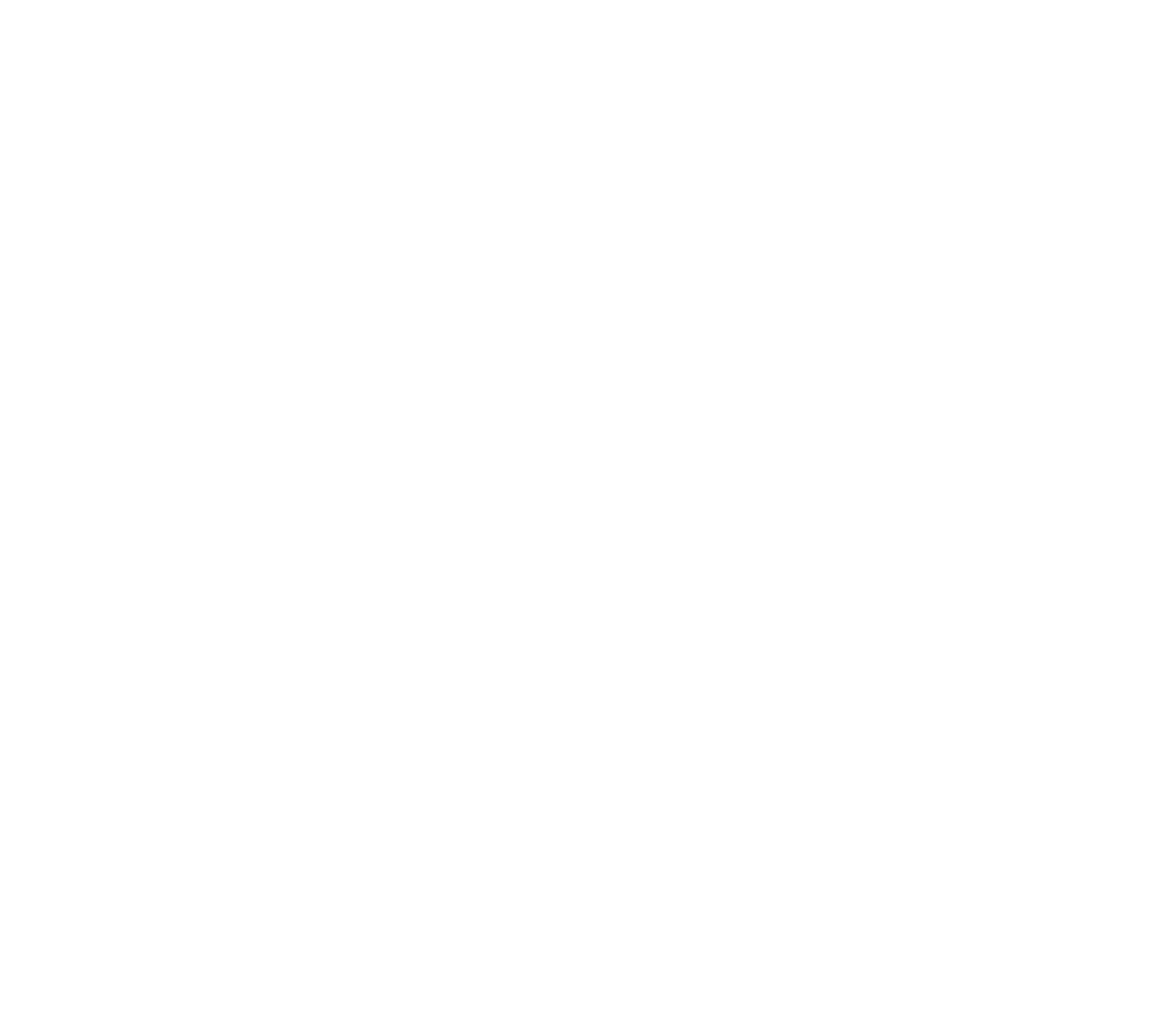
6 DRIP TUBE HEADER INSTALLATION
 NOT TO SCALE



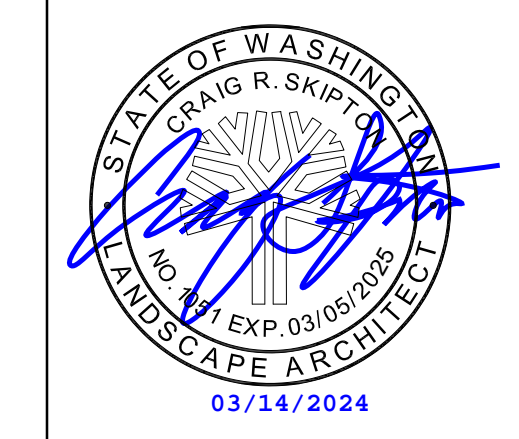
7 MANUAL DRAIN VALVE
 1" = 1'-0"
 P-2-PCP-42



8 QUICK COUPLER IN VALVE BOX
 1 1/2" = 1'-0"



9 BRASS BALL ISOLATION VALVE
 1" = 1'-0"
 P-2-PCP-43



project_
 PUYALLUP CAMPUS PARKING
 EXPANSION FOR LOT A
 client_
 PIERCE COLLEGE
 location_
 PUYALLUP, WA
 state project number_
 2020 - 5461 (5 - 1)

Project No. 2012.000
IRRIGATION DETAILS

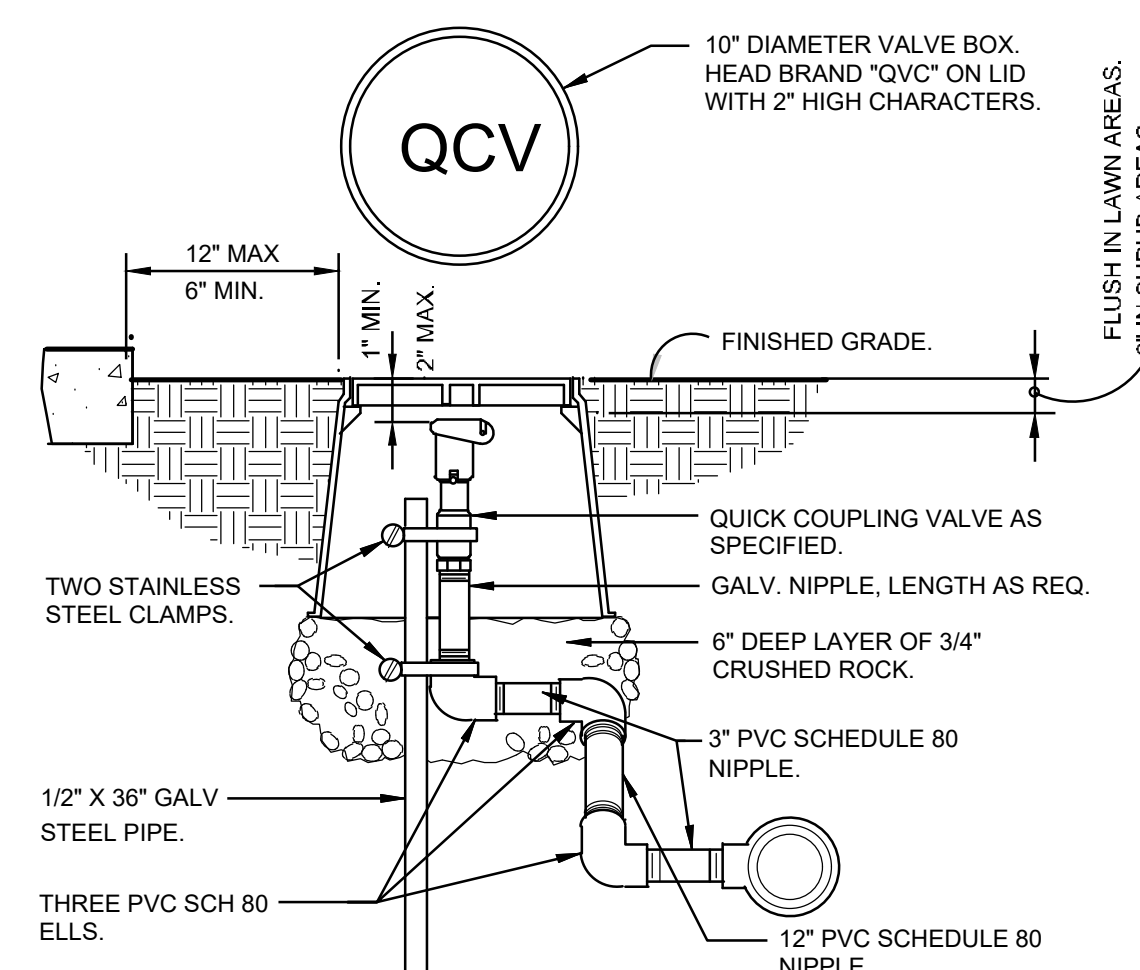
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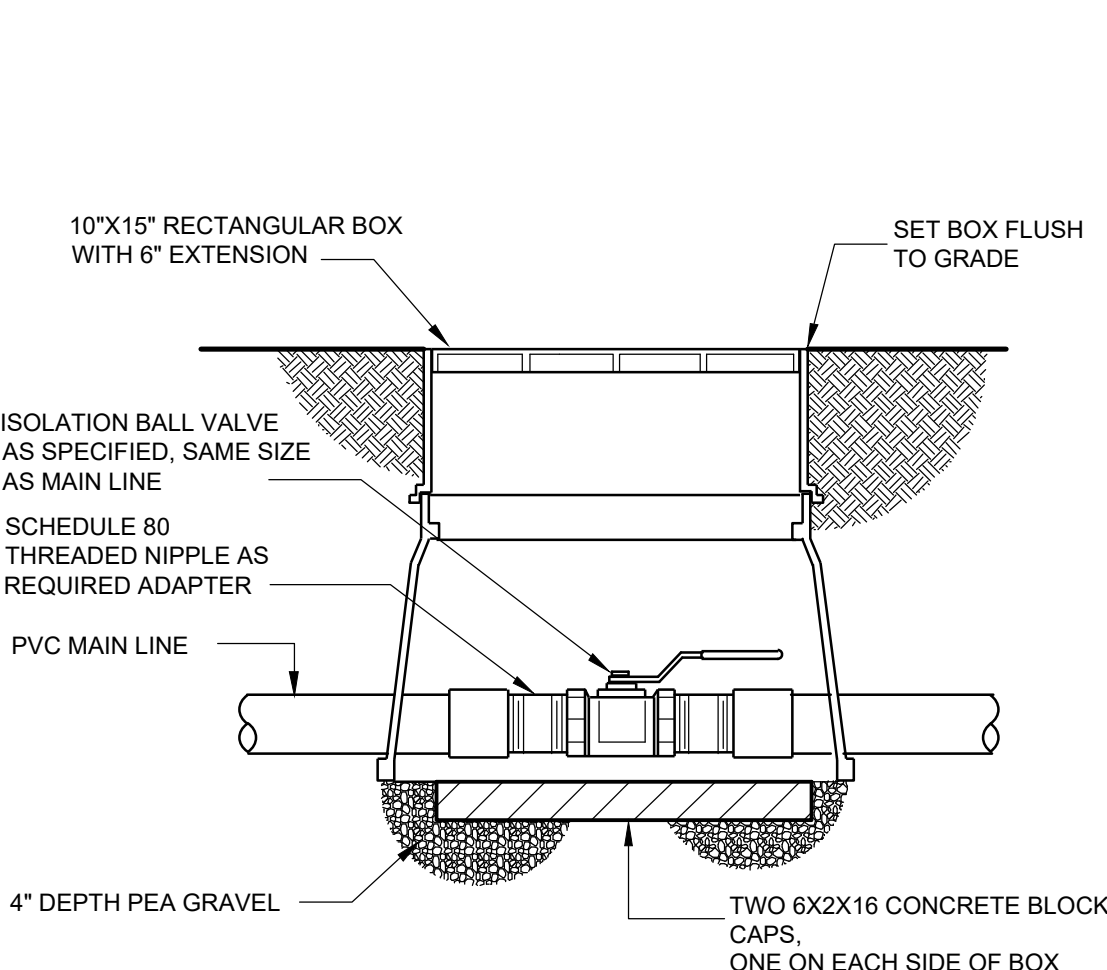
drawn_
 S Johnson

checked_
 S Singleton Schroedel

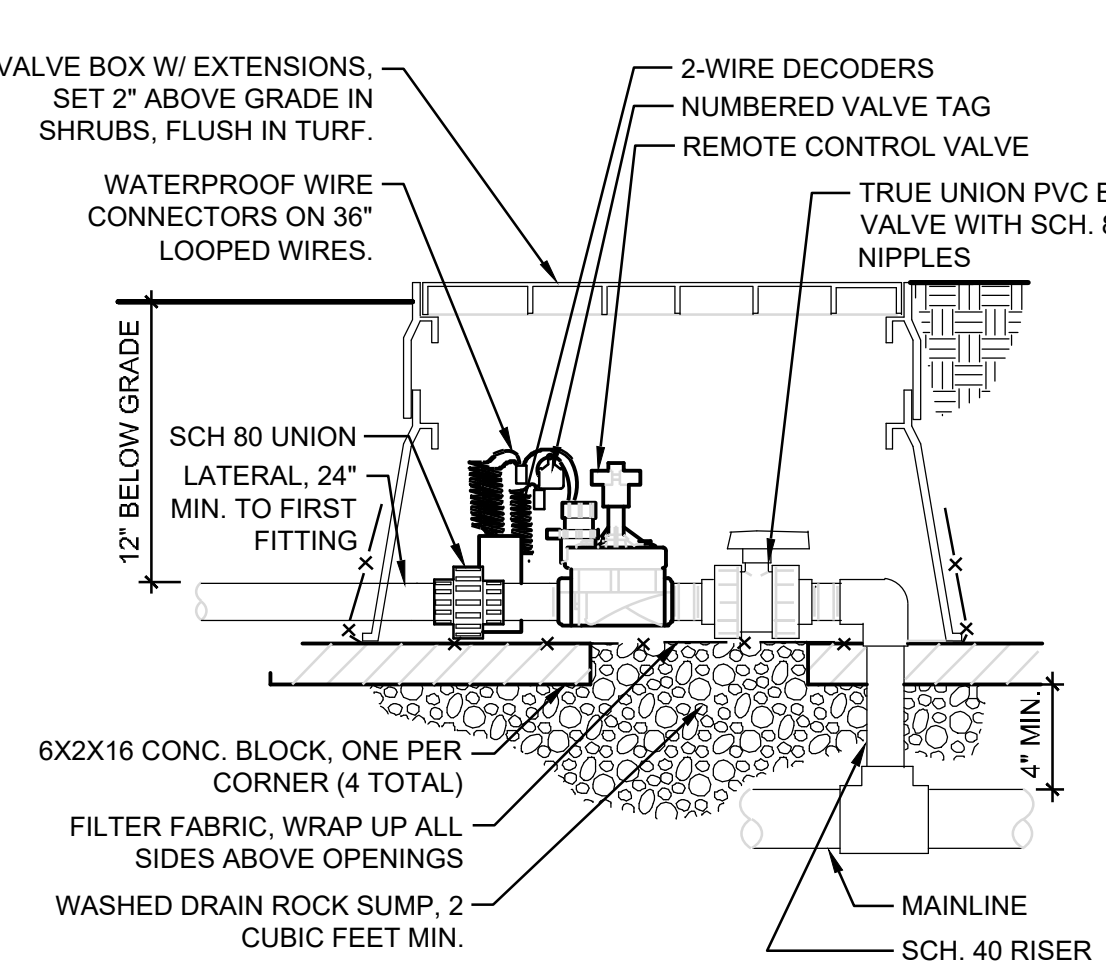
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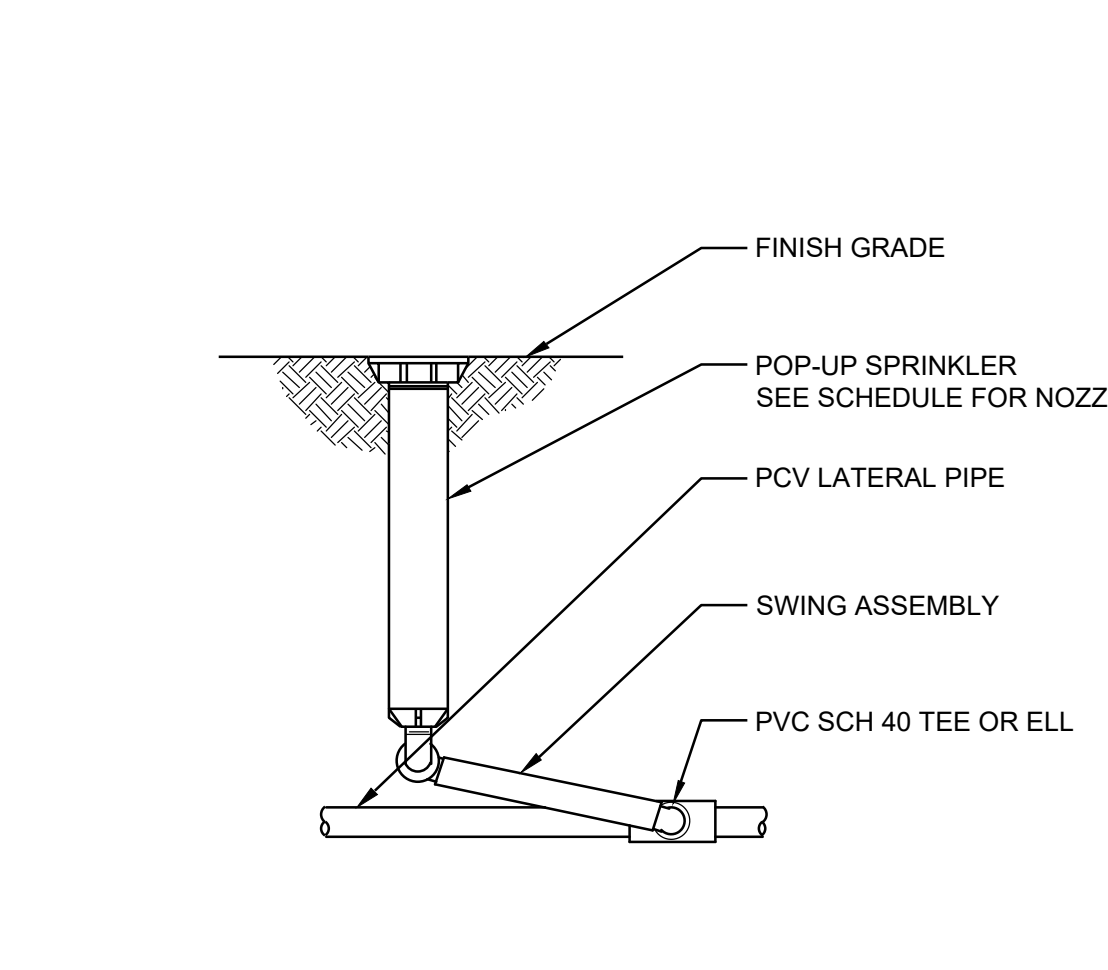
8 QUICK COUPLER IN VALVE BOX
 1 1/2" = 1'-0"



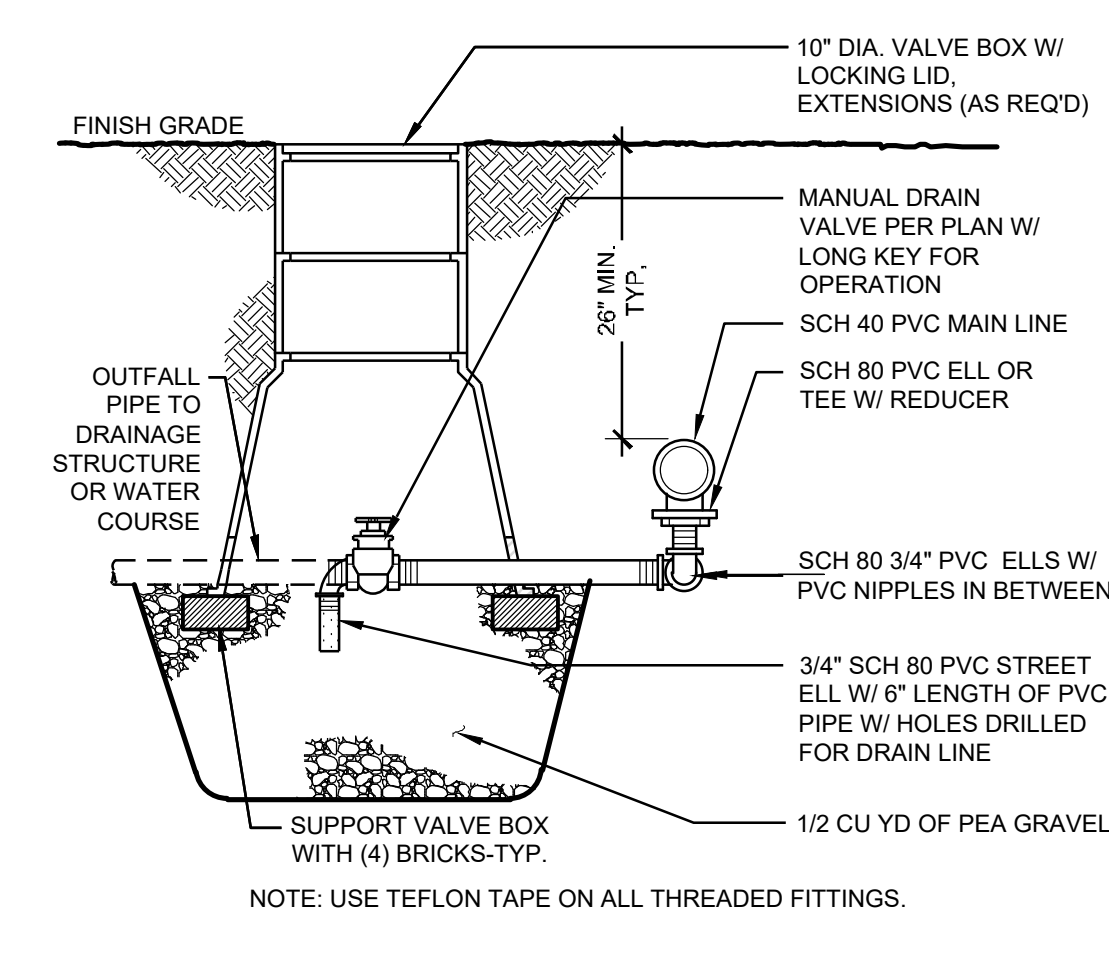
9 BRASS BALL ISOLATION VALVE
 1" = 1'-0"
 P-2-PCP-43



10 REMOTE CONTROL VALVES
 NTS
 P-2-PCP-78



11 POP-UP SPRAY HEAD
 3" = 1'-0"

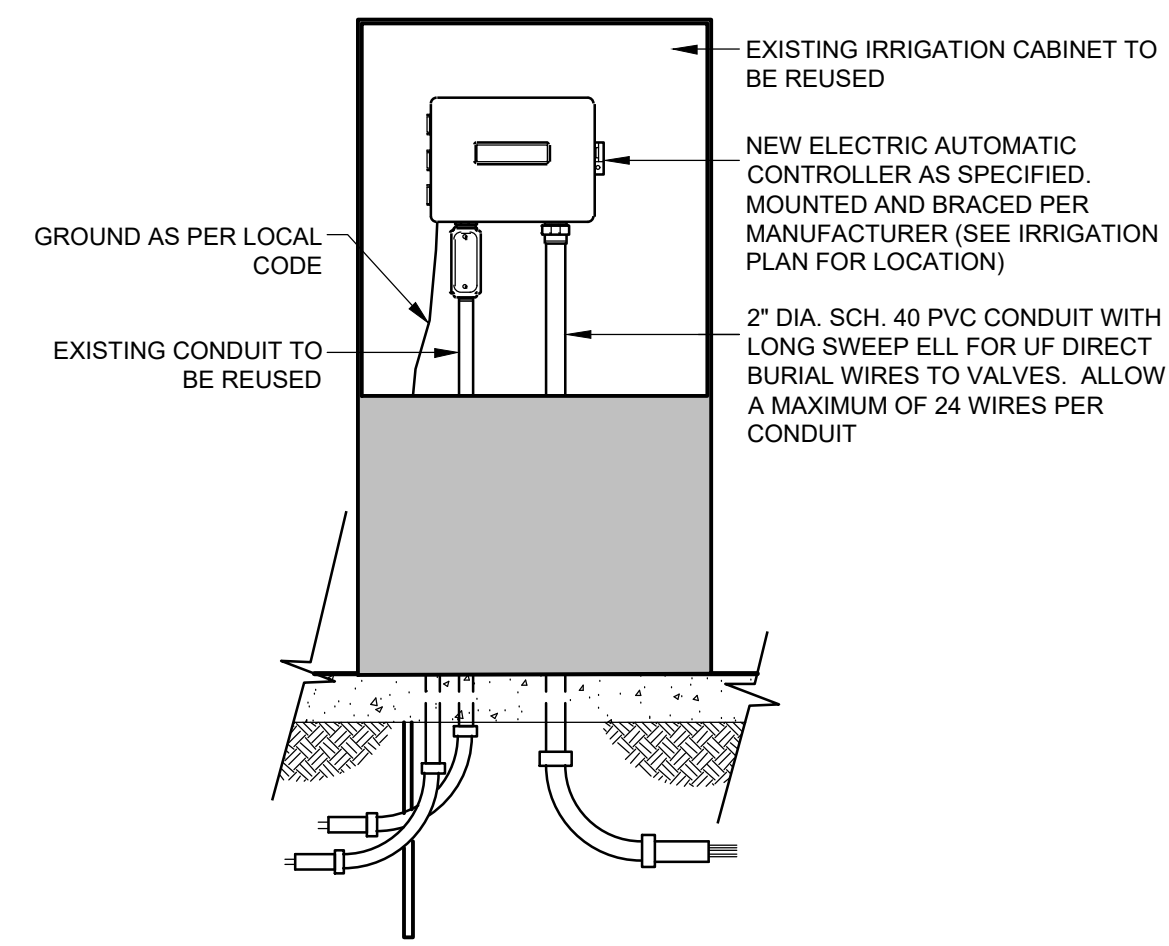


12 MANUAL DRAIN VALVE
 1" = 1'-0"
 P-2-PCP-42

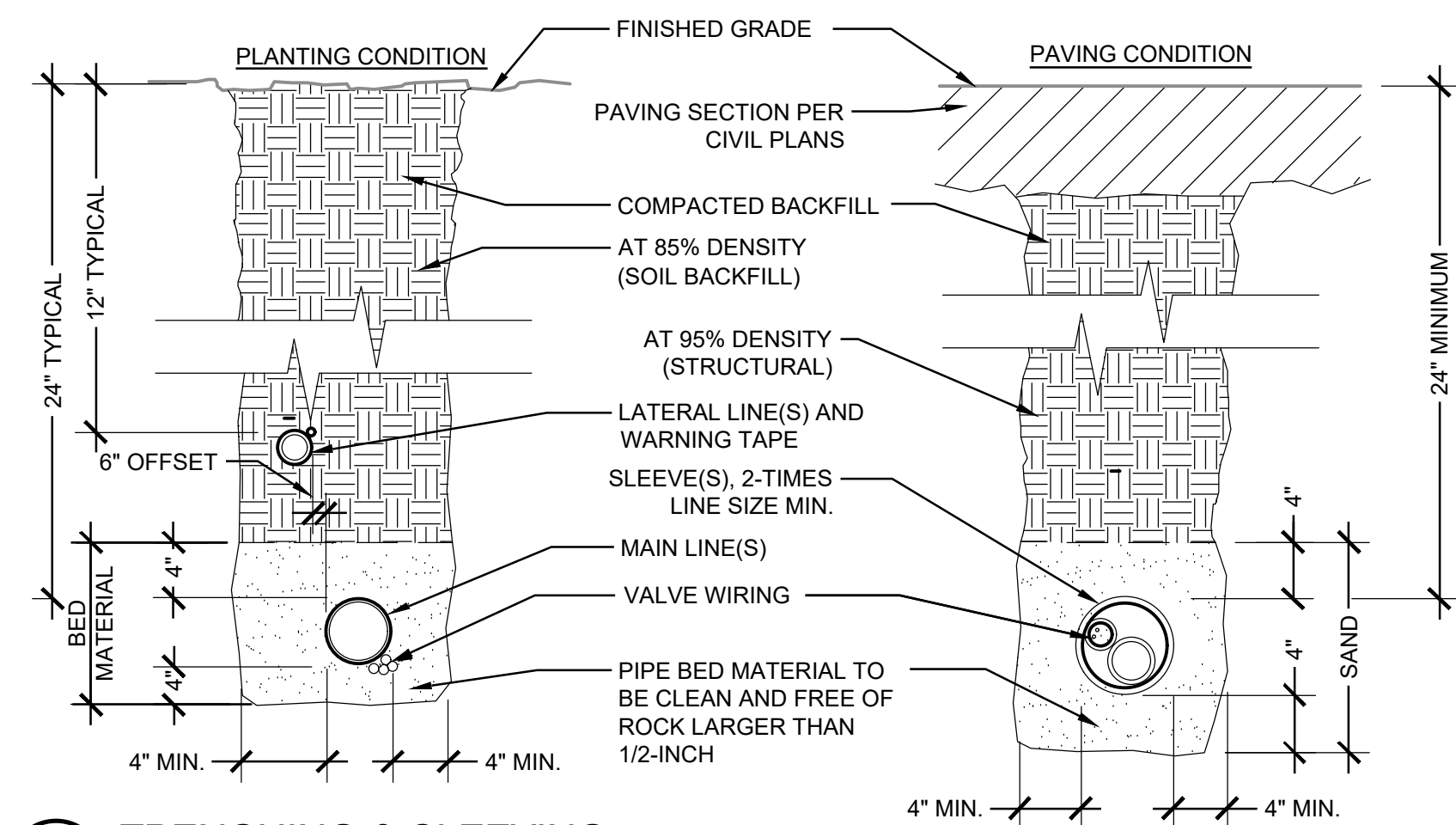
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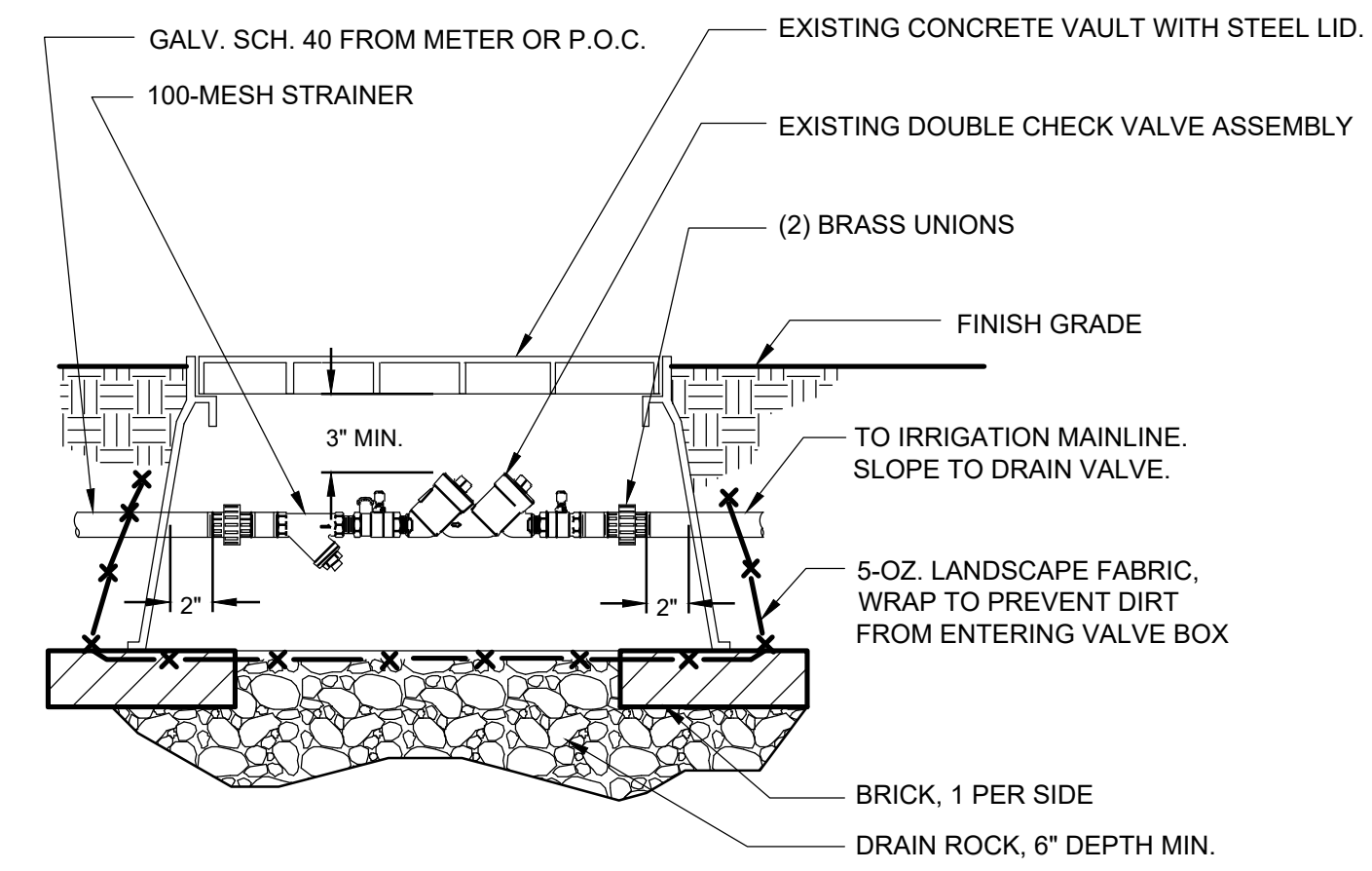
1 NEW CONTROLLER IN EXISTING CABINET
1/2" = 1'-0" P-2-PCP-20



2 TRENCHING & SLEEVING
NTS P-2-PCP-12

- NOTES:**
- DIMENSIONS ARE MINIMUM CLEARANCES.
 - DO NOT TAPE OR BUNDLE WIRES IN SLEEVES.

NOTE: CONTRACTOR TO VERIFY THAT EXISTING DCVA MEETS THIS DETAIL.



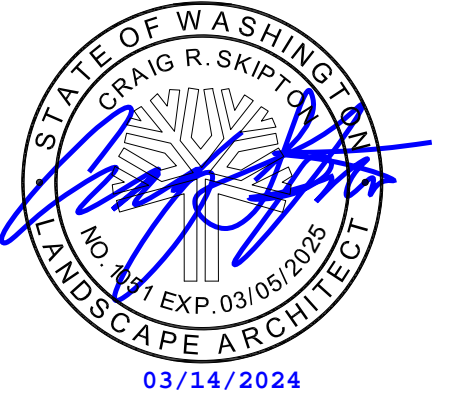
3 DOUBLE CHECK VALVE ASSEMBLY
NTS P-2-PCP-19

APPROVED
BY *[Signature]*
CITY OF PUYALLUP
ENGINEERING SERVICES
DATE 04/08/2024

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



project_ PUYALLUP CAMPUS PARKING EXPANSION FOR LOT A
client_ PIERCE COLLEGE
location_ PUYALLUP, WA
state project number_ 2020 - 5461 (5 - 1)

Project No. 2012.000
IRRIGATION DETAILS

issued_ 15 MAR 24
BID SET

revision_

drawn_ S Johnson

checked_ S Singleton Schroedel

sheet_ **L4.3**

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