

Plan Change Request

Development Services
333 S. Meridian
Puyallup, WA 98371
Phone: 253-864-4165
www.cityofpuyallup.org



A plan change request is necessary for civil projects that propose substantial changes to the approved civil plans and requires additional review by City of Puyallup review staff. This application should be filled out completely and sent directly to the City Review Engineer assigned to the civil permit application via email.

Project Information

Site Address/ Parcel #: 1023 39TH AVE SE Permit #: PRCCP20240183
Owner: Benaroya Capital Email: davev@benaroya.com
Design Engineer: Cara Visintainer Email: cvisintainer@barghausen.com
Contractor: Howard S Wright Email: jlane@HSWC.com

Originator of the Request: ☒ Owner ☒ Design Engineer ☒ Contractor ☐ City of Puyallup

- Does this request require a deviation from city standards? ☐ Yes ☒ No
- If yes, submit an [Alternative Method's Request](#) via the [CityView Portal](#) instead of this form

➤ Indicate the development infrastructure being affected

☐ Road ☒ Storm ☒ Water ☒ Sanitary ☒ Grading ☐ Erosion Control

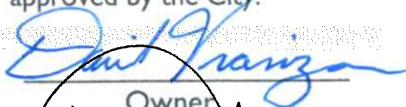
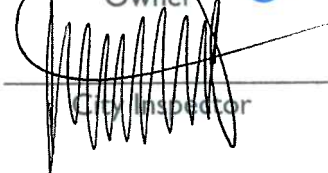
➤ Specify the approved civil plans affected: C1, C6, C7, C11, C14, C15, C17, C19, C20

➤ Describe the change(s) being requested:

Additional utility yard footprint for the south utility yard that includes 5 new air cooled chillers and associated pumps, 1 new load bank, and 5 new standby diesel generators with above ground storage tanks. Water, sewer, and storm routes have been updated accordingly to accommodate the larger area of concrete paving and wall construction.

The stormwater pond had been revised to account for an additional foot of live storage that was already designed into the pond. The retaining wall has been reduced in height with adjusted clearing limits to account for additional grading above the proposed retaining wall.

- All signatures are required to process this request unless initiated by the City of Puyallup. Final approval/denial will be made by the City Review Engineer. All changes must be fully approved/denied prior to any work on the requested changes. Any work completed prior to approval is at the risk of the developer/contractor and may not be approved by the City.


Owner

City Inspector


Design Engineer
 ***
City Reviewer

 Digitally signed by
Jason Lane
Contractor

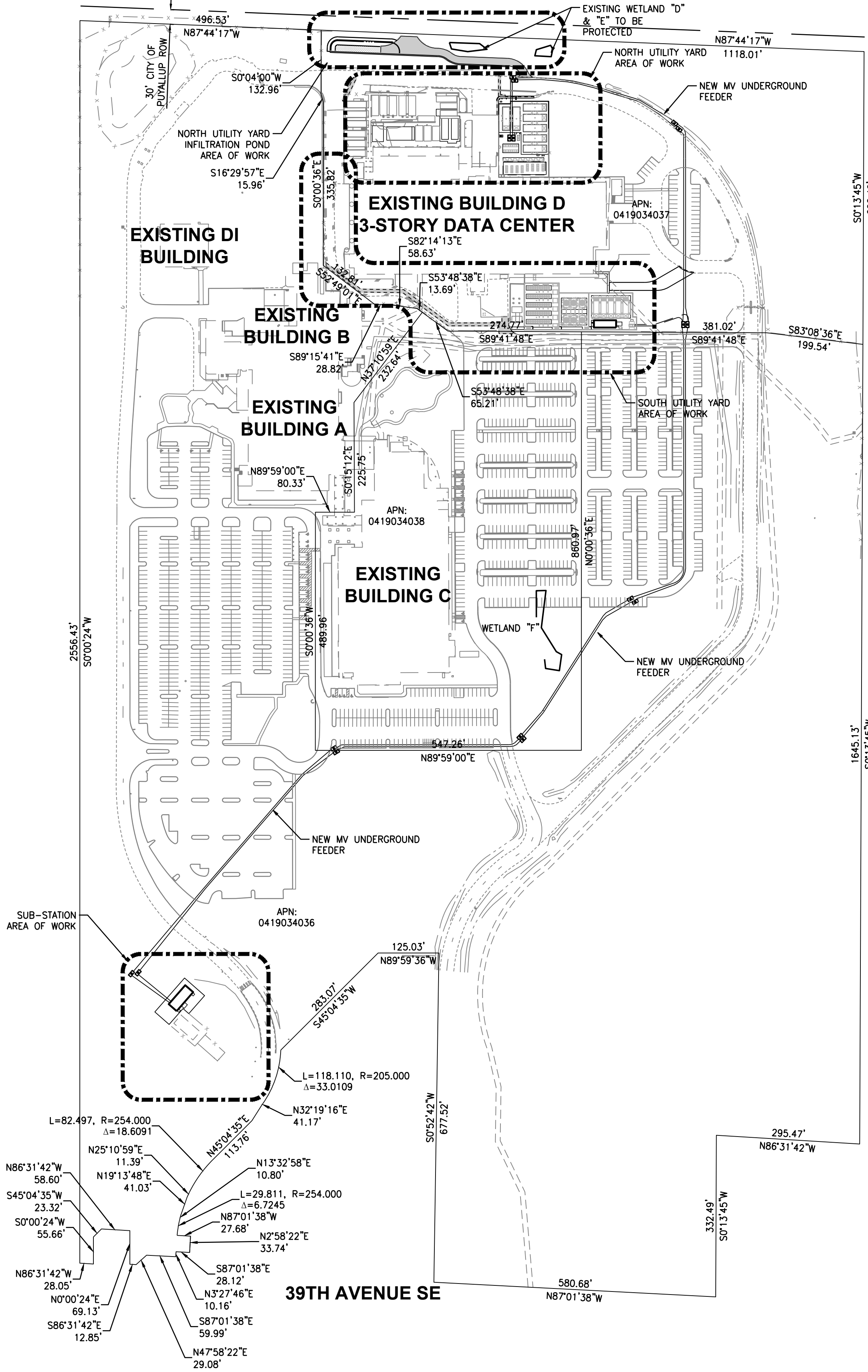
 Approved Denied

***SEE COMMENTS ON SHEET C18 and C20.

Date: 01/08/2025

COVER SHEET
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



OWNER/DEVELOPER

BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH AVENUE, SUITE 115
MERCER ISLAND, WA 98040
(253) 200-4120

ARCHITECT

CASCADE MISSION CRITICAL, LLC
6210 36TH AVENUE NE
SEATTLE, WA 98115
(206) 294-1288
CONTACT: LEONARD RUFF

CIVIL ENGINEER

BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE SOUTH
KENT, WA 98032
(425) 251-6222
CONTACT: CARA VISINTAINER, PE

LAND SURVEYOR

BARGHAUSEN CONSULTING ENGINEERS, INC.
18215 72ND AVE SOUTH
KENT, WA 98032
(425) 251-6222
CONTACT: BRIAN GILLOOLY, PLS

GEOTECHNICAL

GEOTECHNICALS, INC.
17425 NE UNION HILL ROAD, SUITE 250
REDMOND, WA 98052
(425) 861-6000
CONTACT: DEBRA OVERBAY

SURVEY INFORMATION

HORIZONTAL DATUM - NAD 83/91:
THE BASIS OF BEARINGS IS THE BEARING
BETWEEN PIERCE COUNTY MON 2208 (WCCS
660) AND PIERCE COUNTY MON 2128 (WCCS
580), TAKEN AS NORTH 25°54'26" WEST,
BASED UPON NORTH AMERICAN DATUM OF
1983 - NAD 83 (91) - WASHINGTON STATE
PLANE COORDINATE SYSTEM, SOUTH ZONE.

VERTICAL DATUM - NAVD83:

REFERENCE SURVEYS:
1. PUYALLUP BOUNDARY LINE REVISION NO.
P-12-0044, RECORDED UNDER RECORDING
NO. 201211145004.

2. RECORD OF SURVEY RECORDING NO.
200704305001, AND AS CORRECTED BY
AFFIDAVIT OF MINOR CORRECTION UNDER
RECORDING NO. 200710260050.

**ESTIMATED EARTHWORK
QUANTITIES**

CUT: 1,308 CY
FILL: 4,291 CY
NET: 2,983 CY (IMPORT)

EARTHWORK QUANTITIES ARE APPROXIMATE AND
HIGHLY DEPENDANT ON SOIL CONDITIONS
ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR
SHOULD PERFORM INDEPENDENT ESTIMATE FOR
BIDDING.

SITE INFORMATION

SITE ADDRESS: 1023 39TH AVENUE SE
PUYALLUP, WA 98374-2121
PARCEL NUMBER: 0419034036, 0419034037, 0419034038
PARCEL SIZE: 61.28 ACRES & 15.77 ACRES
EXISTING USE: BUSINESS PARK
ZONING DESIGNATION: BUSINESS PARK (MP)
FEMA FLOODPLAIN: ZONE X - AREAS DETERMINED TO BE
OUTSIDE THE 0.2% ANNUAL CHANCE
FLOODPLAIN

LEGAL DESCRIPTION: LOTS 1 THROUGH 3, CITY OF PUYALLUP
BOUNDARY LINE REVISION NO. P-21-0138, RECORDED MARCH
22, 2022 UNDER RECORDING NO. 202203225003, IN PIERCE
COUNTY, WASHINGTON.

UTILITIES

WATER: CITY OF PUYALLUP
1100 39TH AVENUE SE
PUYALLUP, WA 98374
(253) 841-5505
SEWER: CITY OF PUYALLUP
1100 39TH AVENUE SE
PUYALLUP, WA 98374
(253) 841-5505
POWER: PUGET SOUND ENERGY
105 156TH AVENUE NE
BELLEVUE, WA 98005
1 (800) 321-4321
GAS: PUGET SOUND ENERGY
105 156TH AVENUE NE
BELLEVUE, WA 98005
1 (800) 321-4321
TELEPHONE: CENTURY LINK
450 110TH AVENUE NE
PREMIS BUREAU, 4TH FLOOR
BELLEVUE, WA 98003
CABLE: COMCAST
P.O. BOX 1048
AUBURN, WA 98002
FIRE: FIRE DISTRICT #6
CENTRAL PIERCE FIRE AND RESCUE
1015 39TH AVENUE, SUITE 120
PUYALLUP, WA 98374
(253) 538-6400

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**CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"**

UTILITY CONFLICT NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS NOR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATION OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

MONUMENT PROTECTION NOTE

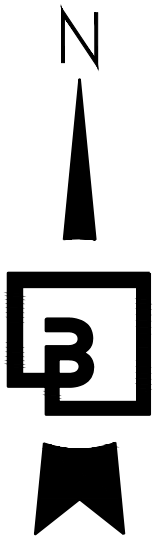
CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY, PURSUANT TO WAC 332-120. APPLICATIONS MUST BE COMPLETED BY A REGISTERED LAND SURVEYOR. APPLICATIONS FOR PERMITS TO REMOVE MONUMENTS MAY BE OBTAINED FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, OR BY CONTACTING THEIR OFFICE BY TELEPHONE AT (206) 902-1190.

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES
PUBLIC LAND SURVEY OFFICE
1111 WASHINGTON STREET S.E.
P.O. BOX 47060
OLYMPIA, WASHINGTON 98504-7060

UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR, PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENT OF SAID MONUMENTATION SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

HORIZONTAL CONTROL NOTE

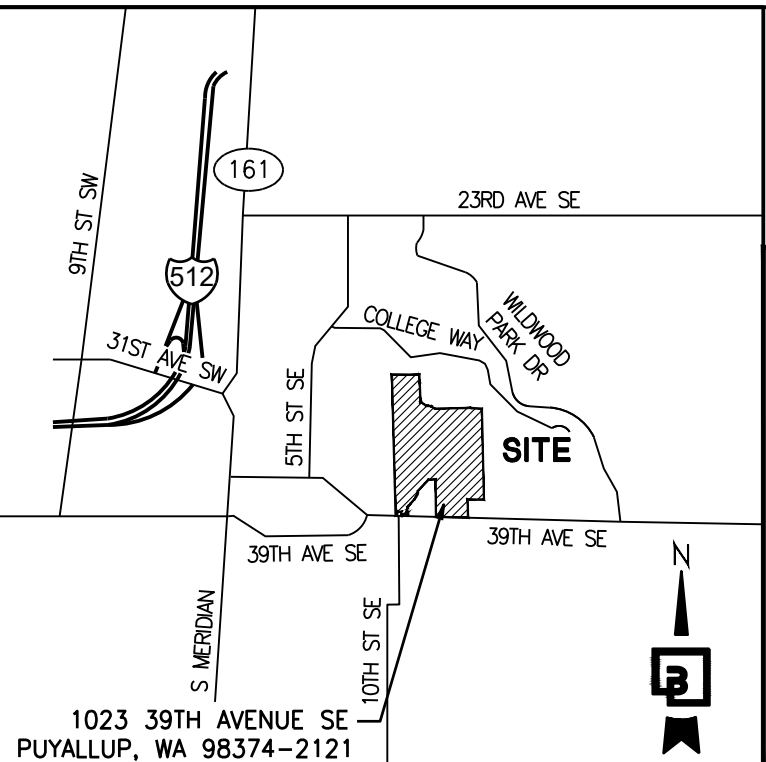
THE CONTRACTOR SHALL HAVE ALL PROPERTY LINES, CURB, SIDEWALK, STRUCTURES, CONCRETE PADS AND ANY OTHER ABOVE GROUND PERMANENT STRUCTURE DEPICTED ON THESE PLANS STAKED FOR CONSTRUCTION BY A LICENSED SURVEYOR. THE LICENSED SURVEYOR SHALL STAKE ALL ITEMS USING COORDINATE GEOMETRY (RECTIFIED TO SITE CONTROL) CONTAINED IN CAD DRAWING FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETRIEVE THE LATEST CAD FILES FROM BARGHAUSEN CONSULTING ENGINEERS, INC., REFLECTING ANY ISSUED PLAN REVISIONS. BARGHAUSEN CONSULTING ENGINEERS INC. SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.



0 1/2" 1" 2"
SCALE 1"= 150'

LEGEND:

EXISTING:	PROPOSED:
	POWER VAULT
	LUMINAIRE (LUM.)
	POWER METER
	POWER POLE
	JUNCTION BOX (AS NOTED)
	CATCH BASIN (CB)
	STORM MANHOLE (SDMH)
	SANITARY SEWER MANHOLE (SSMH)
	GAS VALVE
	WATER VALVE (WV)
	FIRE HYDRANT (FH)
	WATER METER
	SIGN
	WELL
	GUARD POST (GP)
	FLAG POLE (FP)
	MAILBOX
	SURVEY MONUMENT (AS NOTED)
	BENCHMARK
	SECTION CORNER (AS NOTED)
	FOUND REBAR/CAP (AS NOTED)
	FOUND LEAD/TACK
	CONCRETE
	GRAVEL
	PAVEMENT
	WATER LINE
	SANITARY SEWER LINE
	STORM DRAINAGE LINE
	GAS LINE
	TELEPHONE UNDERGROUND
	POWER UNDERGROUND
	POWER OVERHEAD
	CHAIN LINK FENCE
	BARBED WIRE FENCE
	WOOD FENCE
	ROCKERY RETAINING WALL
	LOCK AND LOAD RETAINING WALL
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
	GUARD RAIL/CABLE FENCE
	PROJECT BOUNDARY LINE
	SECTION LINE
	RIGHT-OF-WAY
	CENTERLINE
	PROPOSED LOT LINE
	EASEMENT LINE
	PHASE LINE
	SAWCUT
	HOGWIRE FENCE



PCR 001
PRCCP20240183

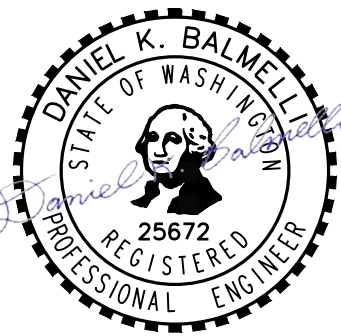
APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

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

Title:

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

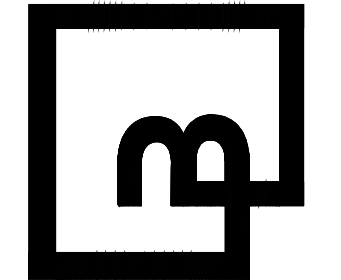


12/4/24

Scale:
Horizontal
1" = 150'
Vertical
N/A

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 12/4/24

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
18111
Sheet
C1 of **22**

CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

GENERAL SITE DEVELOPMENT NOTES

1. THE GENERAL CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
2. THE GENERAL CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWINGS PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO CONSTRUCTION.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
5. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
6. INSPECTION OF SITE WORK WILL BE THE RESPONSIBILITY OF A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
7. PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM ADVANCE NOTIFICATION TO THE OWNER, FIELD ENGINEER AND ENGINEER OF THE PRE-CONSTRUCTION MEETINGS.
8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHALL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEAN AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER AGENCY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
10. PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL ADJACENT PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATION WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
11. TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF THE PROJECT.

CONSTRUCTION SEQUENCE

1. FLAGGING OF CLEARING LIMITS.
2. SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH THE CITY OF PUYALLUP.
3. PROVIDE MISC. DEMOLITION AND CLEAR AND GRUB AREA WITHIN CLEARING LIMITS REQUIRED FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES. ALL EROSION AND SEDIMENTATION CONTROL FACILITIES SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE INSTALLED PRIOR TO, OR AS A FIRST STAGE OF SITE PREPARATION.
4. PROVIDE INLET PROTECTION AND FILTER FABRIC FENCE AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLANS.
5. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENTATION CONTROL MEASURES AND PROVIDE REPAIRS AS NEEDED FOR THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
6. CLEAR AND GRUB ALL REMAINDER OF THE SITE WITHIN THE CLEARING LIMITS AND ROUGH GRADE.
7. PROVIDE COVER MEASURES TO INCLUDE ARMORING, MULCHING, AND HYDROSEEDING TO STABILIZE DENUDDED AREA AND PREVENT THE TRANSPORT OF SEDIMENT-LADEN STORMWATER OFF-SITE.
8. PROVIDE STORM SYSTEM AND MISCELLANEOUS UTILITIES AS SHOWN ON THE PLANS.

TRENCH NOTE

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR (4) 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 BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

FILL SPECIFICATION

IMPORTED 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.

PLANTING AREA NOTES

ALL PLANTING AREAS SHALL BE MULCHED WITH A UNIFORM FOUR (4") INCH LAYER OF ORGANIC COMPOST MULCH MATERIAL OR WOOD CHIPS OVER A PROPERLY CLEANED, AMENDED AND GRADED SURFACE.

CRITICAL AREA DELINEATION NOTES

PERMANENT CRITICAL AREA MARKERS ARE REQUIRED TO BE INSTALLED EVERY 50 FEET AROUND THE BOUNDARY OF CRITICAL AREA BUFFERS FOR THE FOLLOWING CRITICAL AREAS; WETLANDS, STREAMS, LANDSLIDE HAZARD AREAS.

CITY OF PUYALLUP **STANDARD 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 APPROVED ENGINEERING PLANS. REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF, CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
9. THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
10. POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
11. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
12. DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
13. CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.

9	12/3/24	KDM	CMW	CMW	CITY COMMENTS ON SOUTH YARD
8	10/25/24	KDM	CMW	CMW	SOUTH UTILITY YARD AND NORTH POND REVISIONS
No.	Date	By	Ckd.	Appr.	Revision

GENERAL NOTES

CENTERIS VOLTAGE PARK

Title:

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



12/4/24

Scale: Horizontal N/A Vertical N/A

Designed	KDM
Drawn	KDM
Checked	CMV
Approved	DKB
Date	12/4/24

**Barghausen
Consulting Engineers, LLC.**

18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**

P:\18000s\18111\engineering\Voltage Park\18111-o.dwg 12/3/2024 3:40 PM KMAPSTEAD

18111
JOB NUMBER

Sheet

C2 of 22

PCR 001
PRCCP20240183

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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

**CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"**

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CONSTRUCTIONS TO PHYSICALLY VERIFY WHETHER THE UTILITIES SHOWN ON THESE PLANS ARE SHOWN ON THESE PLANS OR NOT. ANY CHANGES BASED UPON THE OBTAINED PUBLIC INFORMATION, ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

GENERAL NOTES FOR

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

CITY OF PUYALLUP WATER 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 SUPERSED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS"), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR. PRIOR TO ANY IMPLEMENTATION IN THE FIELD, THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
10. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 21.4-1964.
11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE 6" MAC SST OR STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 6-INCH TAP ON 8-INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(J23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
13. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.
14. VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
15. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN 10 INCHES.
16. PIPE FITTING FOR WATER MAINS SHALL BE DUCTILE IRON AND SHALL BE MECHANICAL JOINT CONFORMING TO AWWA SPECIFICATION C111-72.
17. WATER MAIN PIPE AND SERVICE CONNECTIONS SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
18. WHERE A WATER MAIN CROSSES THE NORTHWEST GAS PIPELINE, THE WATER LINE SHALL BE CASED WITH PVC PIPE A MINIMUM OF 10 FEET BEYOND EACH SIDE OF THE GAS LINE EASEMENT. CONTACT WILLIAMS NORTHWEST PIPELINE BEFORE THE CROSSING IS MADE.
19. TRENCING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
22. HYDRAULIC FIRE FLOW MODELING SHALL BE REQUIRED FOR FORMAL PLATS WITHIN OR TO BE ANNEXED INTO THE CITY OF PUYALLUP'S WATER SERVICE AREA. THE DEVELOPER SHALL BE RESPONSIBLE TO APPLY FOR A HYDRAULIC MODEL PERMIT PRIOR TO PLAT REVIEW. THE HYDRAULIC MODELING CRITERIA IS BASED ON THE PROJECTED WATER DEMAND WHILE MAINTAINING A MINIMUM SYSTEM PRESSURE OF 20 POUNDS PER SQUARE INCH (PSI) AND A MAXIMUM VELOCITY OF 10 FEET PER SECOND.
23. WHEN USING A FIRE HYDRANT FOR NON-FIREFIGHTING PURPOSES, A CITY HYDRANT METER MUST BE USED. COORDINATE THE ACQUISITION OF THE HYDRANT METER WITH THE CITY'S UTILITY BILLING DIVISION AT PUYALLUP CITY HALL. A CITY APPROVED BACKFLOW PROTECTION ASSEMBLY SHALL BE INSTALLED BY THE PERSON REQUESTING USE OF A FIRE HYDRANT. THE ASSEMBLY SHALL BE ACCOMPANIED BY A CURRENT BACKFLOW ASSEMBLY TEST REPORT. THE TEST REPORT SHALL BE AVAILABLE AT THE SITE FOR THE DURATION OF THE HYDRANT USE.
24. SHOULD A BREAK OCCUR ON ANY CITY WATER MAIN, THE CONTRACTOR SHALL FOLLOW THE CITY'S ADOPTED "WATER MAIN BREAK PROCEDURE" ISSUED TO THEM AT THE PRE-CONSTRUCTION MEETING AND NOTIFY THOSE CONNECTED TO THE SYSTEM IN THE IMPACTED AREA AS OUTLINED IN THE PROCEDURE.

- WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09)(NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)
- 25.1. REPAIR WITHOUT DEPRESSURIZATION - SMALL LEAKS SHALL BE REPAIRED USING REPAIR BANDS WHILE MAINTAINING POSITIVE PRESSURE IN THE WATER MAIN. VALVES SURROUNDING THE LEAK WILL BE PARTIALLY SHUT BY THE CITY WATER DEPARTMENT TO REDUCE THE FLOW AND PRESSURE TO THE AREA. BLOWOFFS AND HYDRANTS IN THE REDUCED PRESSURE AREA MAY BE OPENED AS NEEDED TO FURTHER REDUCE THE PRESSURE. THE WATER MAIN TRENCH SHALL BE OVER-EXCAVATED TO ALLOW WATER IN THE TRENCH TO BE PUMPED OUT AND MAINTAINED BELOW THE LEVEL OF THE WATER MAIN. THE REPAIR SHALL BE COMPLETED WITH THE WATER MAIN PRESSURE REMAINING POSITIVE. AFTER THE REPAIR IS MADE, THE SYSTEM SHALL BE FULLY PRESSURIZED AND A VISUAL LEAK INSPECTION WILL BE COMPLETED. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF).
- 25.2. REPAIR/CUT-IN WITH DEPRESSURIZATION - TRENCH SHALL BE OVER EXCAVATED AND DEWATERED BELOW THE WATER MAIN. FLUSH WATER FROM PIPE FROM EACH DIRECTION UNTIL IT RUNS CLEAR. IMMEDIATELY PRIOR TO INSTALLATION OF A NEW PIPE SECTION FOR REPAIR OR CUT IN (EE). ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM EACH PIPE SECTION. THE DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE "WATER MAIN BREAK PROCEDURE."
26. NEW WATER MAIN INSTALLATION:
- 26.1. EACH NEW WATER MAIN SECTION SHALL BE DELIVERED, STACKED AND STORED ONSITE WITH ENDS PLUGGED. THE PLUGS SHALL REMAIN IN THE PIPE UNTIL EACH PARTICULAR SECTION IS INSTALLED. NATIONAL SANITATION FOUNDATION (NSF) STANDARD SIXTY TWO (62) (65% CHLORINE HYPOCHLORITE) SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA.
- 26.2. NEW WATER MAINS SHALL BE FILLED USING AN APPROVED BACKFLOW PREVENTION ASSEMBLY. THE WATER MAIN SHALL BE FILLED FROM THE LOWER ELEVATION END SO THAT AS THE WATER MAIN IS FILLED, THE CHLORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND THE BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW WATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
- 26.3. THE CHLORINATED WATER WILL BE ALLOWED TO REMAIN IN CONTACT WITH THE NEW WATER MAIN SYSTEM FOR 24 TO 72 HOURS. AFTER 24 HOURS, WATER MAY BE ADDED TO THE WATER MAIN FOR THE PURPOSES OF PRESSURE TESTING. THE WATER IN THE MAIN USED FOR PRESSURE TESTING MUST REMAIN IN THE WATER MAIN UNTIL PRESSURE TEST IS COMPLETED. NECESSARY FLUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FRESH WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L UNDER NO CIRCUMSTANCE SHALL "SUPER" CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.
- 26.4. PRESSURE TESTING INCLUDES TESTING AGAINST NEW VALVES AND HYDRANTS. EACH VALVE SHALL BE TESTED BY CLOSING EACH IN TURN AND REDUCING THE PRESSURE BEYOND THE VALVE. THE PRESSURE ON THE BACK SIDE OF THE VALVE SHOULD NOT BE MAINTAINED. THE TEST MUST BE TAKEN TO THE POINT WHERE THE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.
- 26.5. AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL "SUPER" CHLORINATED WATER FROM THE NEW WATER MAIN. INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR WSDOT SPECIFICATION 7-09.3(24) WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ONSITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT (WPCP) SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS, PH ADJUSTED (IF NECESSARY) TO BETWEEN 6.5 AND 8.5. VOLUNTARILY REDUCED FLOW VELOCITY IS ANTICIPATED TO PREVENT THE RESUSPENSION OF SEDIMENT. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.
- 26.6. SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED AFTER FLUSHING AND AGAIN 24 HOURS AFTER THE FIRST SET OF SAMPLES.
- 26.7. ALL CLOSURE/FINAL CONNECTION FITTINGS SHALL BE SPRAYED CLEAN AND THEN SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION IMMEDIATELY PRIOR TO INSTALLATION PER AWWA STANDARD C651. ADDITIONAL SAMPLES FOR WSDOT BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED FROM THE IMMEDIATE VICINITY OF THE NEW OR REPLACED WATER MAIN AND ANALYZED AFTER THE FINAL CONNECTIONS ARE MADE. IF NECESSARY, ADDITIONAL FLUSHING SHALL BE CONDUCTED AND ADDITIONAL SAMPLES SHALL BE COLLECTED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

- ## 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.
 - 14.A. THE USE OF ANY OTHER TYPE PIPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - 14.B. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F69 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - 14.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.
 - 14.D. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
 - 14.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 F288 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 SEWER NOTES

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
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. ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
9. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM EPOXY LINING OR EQUIVALENT, UNLESS OTHERWISE NOTED. 12-INCH THROUGH 30-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. 36-INCH THROUGH 60-INCH PP PIPE SHALL BE DUAL WALLED AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417. TRENCHING, BEDDING, AND BACKFILLED SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 06.01.01. MINIMUM COVER ON PVC AND PP PIPE SHALL BE 3.0 FEET. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04. ALL MANHOLES SHALL BE CHanneled FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLES STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.03.
13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES WITH THE EXCEPTION OF SIDE SEWERS THAT PROVIDE SERVICE TO A SINGLE-FAMILY RESIDENCE. AT THE DISCRETION OF THE REVIEW ENGINEER, A LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED TO STAMP THE DESIGN TO ACCOUNT FOR DEPTH OR PROXIMITY TO FOUNDATION, STEEP SLOPES, OR OTHER FACTORS.
14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
15. FOR ALL COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.
16. ONCE SEWER AND ALL OTHER UTILITY CONSTRUCTION IS COMPLETED, ALL SANITARY SEWER MAINS AND SIDE SEWERS SHALL BE TESTED PER SECTION 406 OF THE CITY STANDARDS.

No.	Date	By	Revision			
			Ckd.	Appr.		
9	12/3/24	KDM	CMW	CMW	CITY COMMENTS ON SOUTH YARD	
8	10/25/24	KDM	CMW	CMW	SOUTH UTILITY YARD AND NORTH POND REVISIONS	

Title:

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



2/4/24

scale:

Horizontal

Vertical

Designed	<u>KDM</u>
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Drawn	<u>KUM</u>
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Approved DKB

17/17 2000

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barqhausen.com

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APPROVED

**CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"**

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE _____

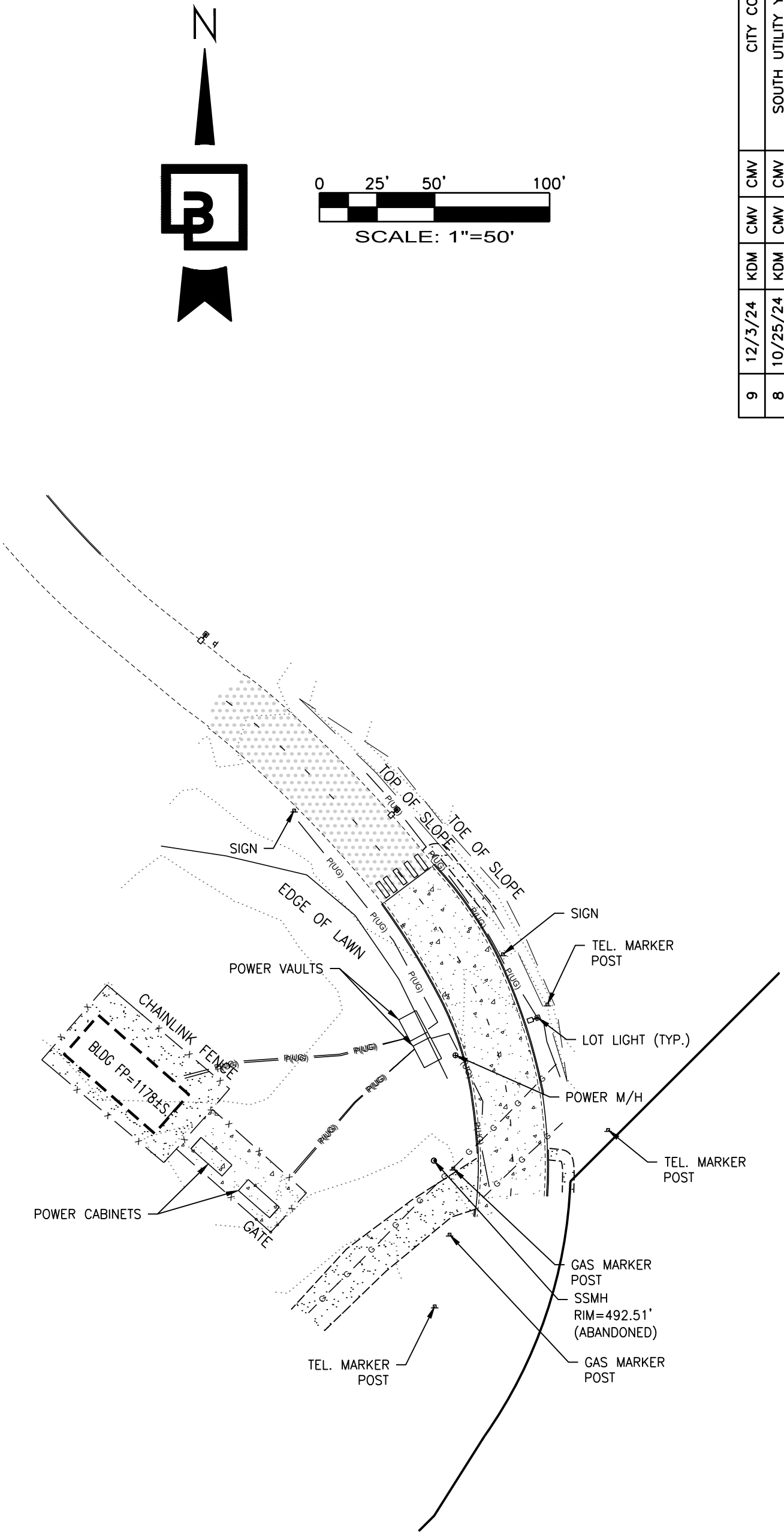
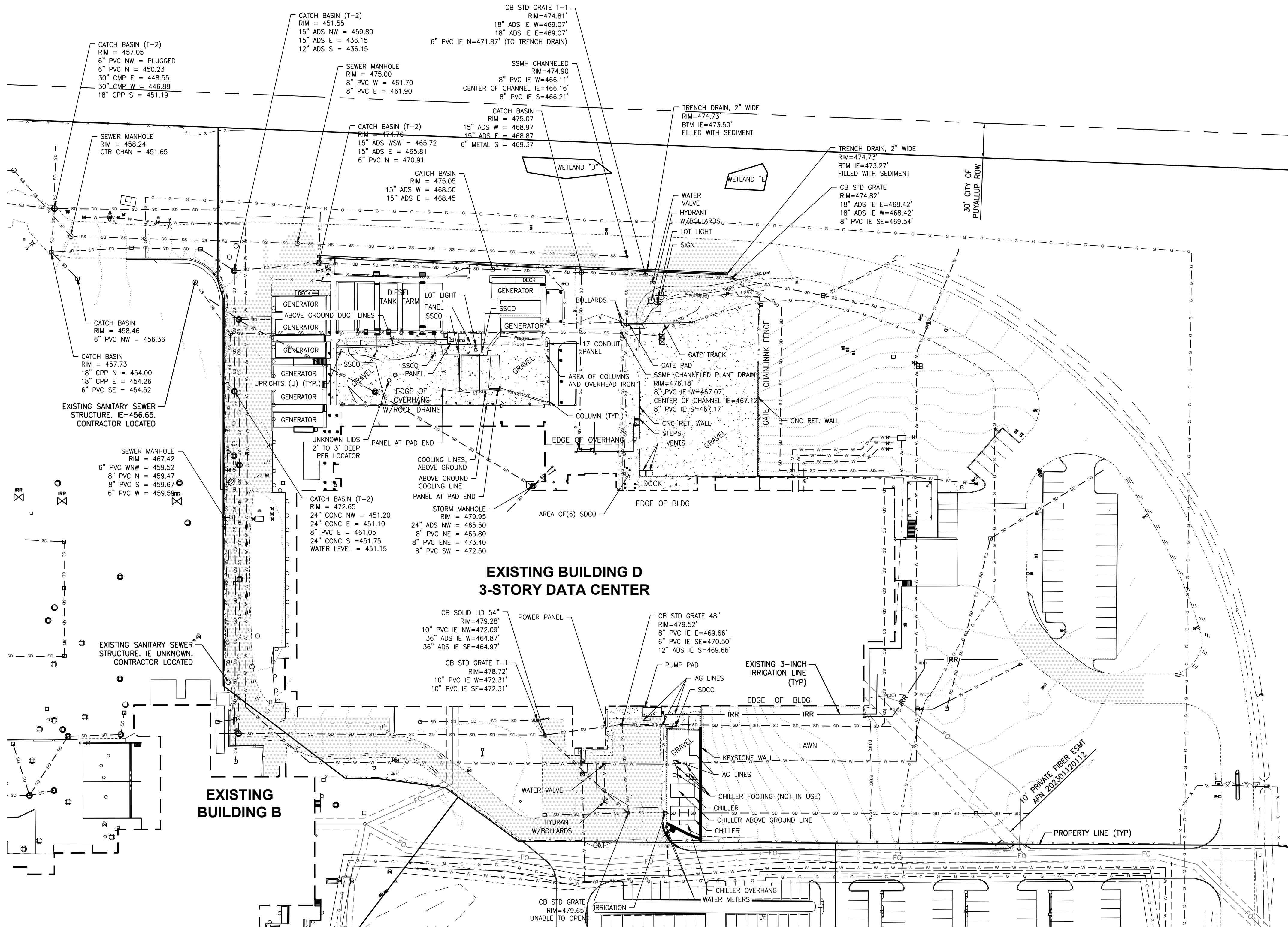
UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS AT FEW CROSSINGS. PHYSICALLY VERIFY WHETHER OR NOT UTILITIES EXIST AT LOCATIONS OF ALL UTILITIES SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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

EXISTING CONDITIONS PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - BUILDING D EXISTING CONDITIONS

SCALE: 1" = 50'

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THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

PCR 001
PRCCP20240183

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

EXISTING CONDITIONS PLAN
CENTERIS VOLTAGE PARK

Title:

CITY COMMENTS ON SOUTH YARD		SOUTH UTILITY YARD AND NORTH FOND REVISIONS		Revision	
No.	Date	By	Ckd.	Appr.	
9	12/3/24	KDM	CMV	CMV	
8	10/25/24	KDM	CMV	CMV	

Job Number

18111

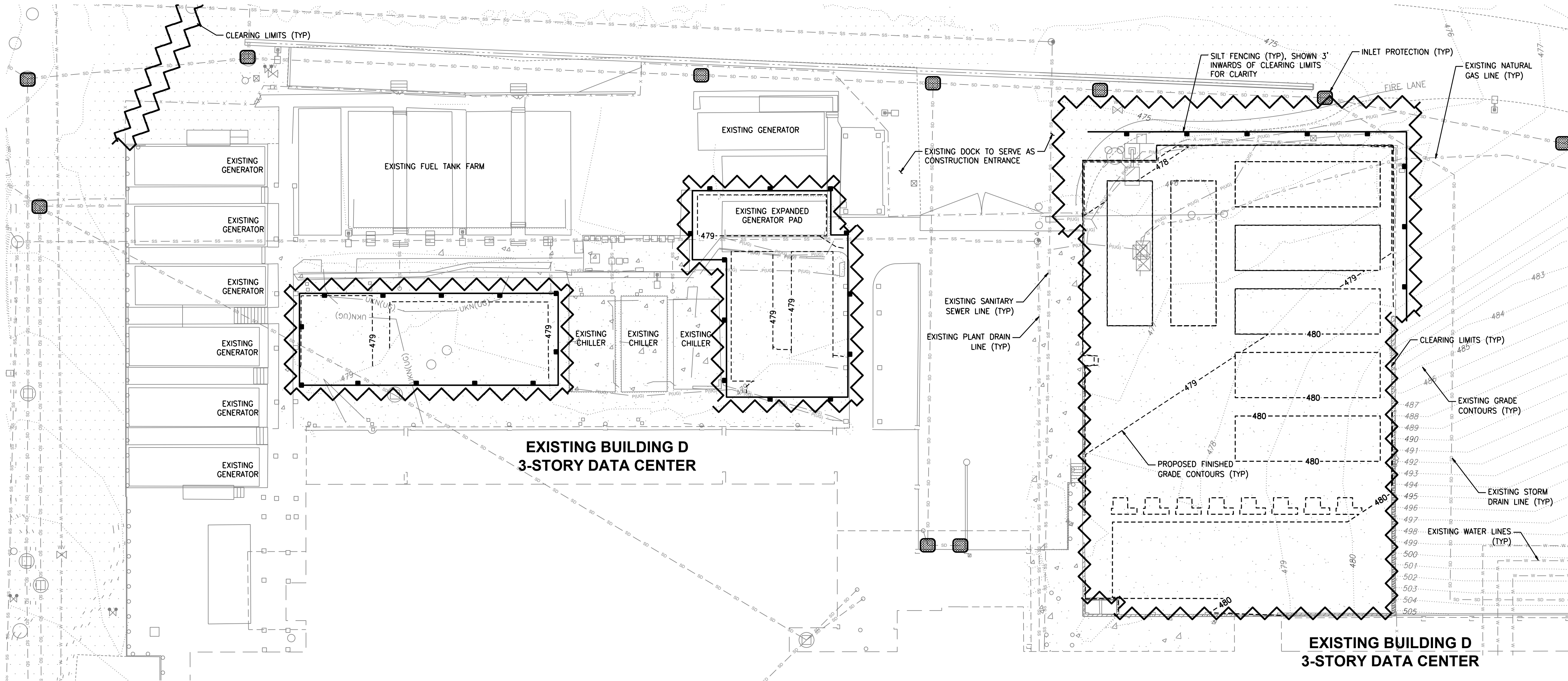
Sheet

C4

22

TESC PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - NORTH UTILITY YARD TESC

SCALE: 1" = 20'

EROSION CONTROL NOTE

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 - THE CONTRACTOR SHALL REMOVE SEDIMENT ACCUMULATION ONCE DEPTH EXCEEDS 6-INCHES.
- INSTALL COIR LOG, ROCK OR STRAW BALE CHECK DAMS EVERY 100 FEET ON CENTER ALONG ALL DRAINAGE INTERCEPTOR DITCHES.
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- AFTER EACH DAY OF ACTIVITY, ALL IMPACTED STREETS ARE TO BE SWEEPED WITH A STREET SWEEPER.

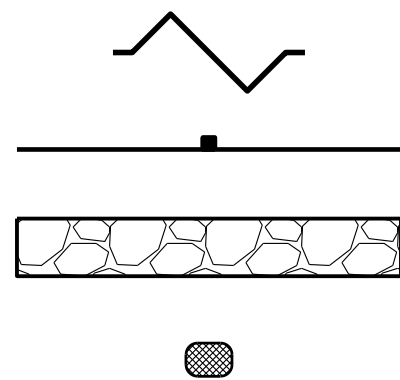
TESC LEGEND

LIMITS OF CLEARING

SILT FENCE PER CITY OF PUYALLUP STANDARD DWG 02.03.02 ON SHEET C8

CONSTRUCTION ENTRANCE PER CITY OF PUYALLUP STANDARD DWG 05.01.01 ON SHEET C8

CATCH BASIN INLET PROTECTION PER CITY OF PUYALLUP STANDARD DWG 02.03.05 AND 02.03.06 ON SHEET C8



CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

UTILITY CONFLICT NOTE:

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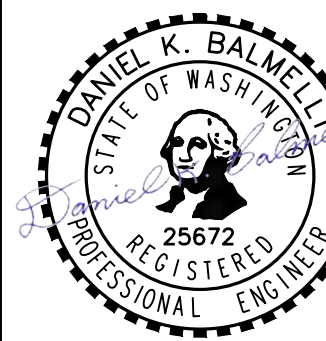
APPROVED
BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

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

PCR 001

PRCCP20240183

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com



Scale: Horizontal 1" = 20' Vertical N/A

Designed: KDM Draw: KDM Checked: CMV Approved: DKB Date: 12/4/24

For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

TESC PLAN
CENTERIS VOLTAGE PARK

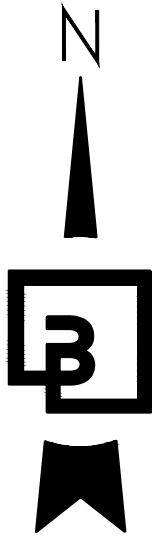
Title:

Job Number
18111

Sheet
C5 of 22

TESC PLAN FOR

CENTERIS VOLTAGE PARK



VOLTAGE PARK - SOUTH UTILITY YARD TESCO

SCALE: 1" = 20'



LIMITS OF CLEARING

The diagram illustrates a single cell. The top part shows a wavy line representing the apical surface. Below it is a horizontal line representing the basal surface, with a small square in the center representing the nucleus. The bottom part shows a cross-section of the cell, revealing internal organelles like mitochondria and the endoplasmic reticulum.

EROSION CONTROL NOTE

ALL EROSION CONTROL BMP'S SHALL COMPLY WITH THE CITY OF PUYALLUP STANDARD DETAILS AND THE 2011 WASHINGTON STATE DEPARTMENT OF ECOLOGY WESTERN WASHINGTON STORMWATER MANUAL. THE PROTECTION FOR THE SLOPES SHALL BE INSTALLED AS SOON AS PRACTICABLE AND PRIOR TO CALLING FOR FINAL APPROVAL. AREAS ADJACENT TO THIS PROJECT ARE CURRENTLY UNDER CONSTRUCTION OR PLANNED FOR CONSTRUCTION IN THE NEAR FUTURE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SITE CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

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3. ALL TRUCKS TRANSPORTING FINE MATERIAL TO THE PROJECT SITE MUST BE COVERED TO PREVENT DUST FROM BLOWING FROM THE TRUCKS.

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3. THE GEOTECHNICAL ENGINEER SHALL BE ON-SITE DURING ALL STRIPPING AND GRUBBING OPERATIONS TO VERIFY CONDITION OF THE SUBGRADE SOILS AND REMOVAL OF ALL ORGANIC MATERIAL, STUBS, UNCONTROLLED FILL, ECT.
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WET SEASON NOTES

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3. THE CONTRACTOR SHALL INSPECT AND MAINTAIN SEDIMENT CONTROL MEASURES DAILY.
 - 3.1. THE CONTRACTOR SHALL REPLACE AND DAMAGED BMPs AND UPGRADE MEASURES BASED ON WEATHER CONDITIONS.
 - 3.2. THE CONTRACTOR SHALL REMOVE SEDIMENT ACCUMULATION ONCE DEPTH EXCEEDS 6-INCHES.
4. INSTALL COIR LOG, ROCK OR STRAW BALE CHECK DAMS EVERY 100 FEET ON CENTER ALONG ALL DRAINAGE INTERCEPTOR DITCHES.
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5. ADDITIONAL CURB LOG, MULCH COVER, FILTER BARRIERS, AND/OR BALES MAY BE REQUIRED TO PREVENT/MINIMIZE EROSION AND SEDIMENTATION DURING CONSTRUCTION.
6. AFTER EACH DAY OF ACTIVITY, ALL IMPACTED STREETS ARE TO BE SWEEP WITH A STREET CLEANER.

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

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
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MANAGER.

CALL BEFORE YOU DIG
1-800-424-5555 OR "811"

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VOLTAGE PARK - SUB-STATION TESCO

SCALE: 1" = 20'

TESC PLAN

CENTERIS VOLTAGE PAIR

Title:

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



12/4/24

Scale: Horizontal 1" = 20' Vertical N/A

Designed	KDM
Drawn	KDM
Checked	CMV
Approved	DKB
Date	12/4/24

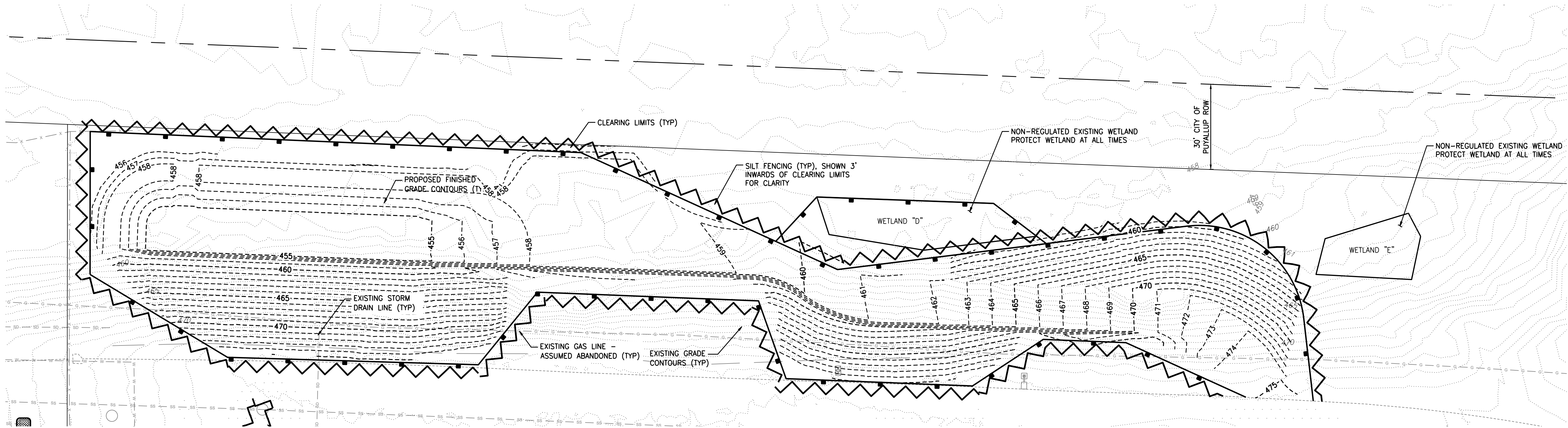
**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**

Job Number
18111
Sheet
C6 22

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TESC PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - NORTH UTILITY YARD POND

SCALE: 1" = 20'

TESC LEGEND

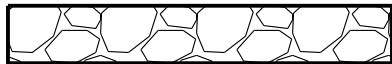
LIMITS OF CLEARING



SILT FENCE PER CITY OF PUYALLUP
STANDARD DWG 02.03.02 ON SHEET C8



CONSTRUCTION ENTRANCE PER CITY OF
PUYALLUP STANDARD DWG 05.01.01 ON
SHEET C8



CATCH BASIN INLET PROTECTION PER CITY OF
PUYALLUP STANDARD DWG 02.03.05 AND
02.03.06 ON SHEET C8



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APPROVED
BY: _____
CITY OF PUYALLUP
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DATE: _____

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

PCR 001

PRCCP20240183

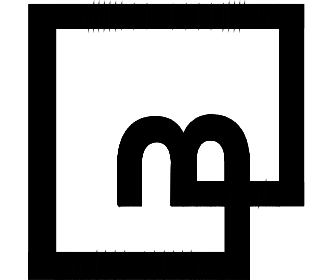


12/4/24

Scale:
Horizontal
1" = 20'
Vertical
N/A

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 12/4/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
18111

Sheet
C7 of 22

Title:

For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

TESC PLAN

**CENTERIS
VOLTAGE PARK**

CITY COMMENTS ON SOUTH YARD			
No.	Date	By	Revision
9	12/3/24	KDM	CMV
8	10/25/24	KDM	CMV

Appr.

Ckd.

By

Date

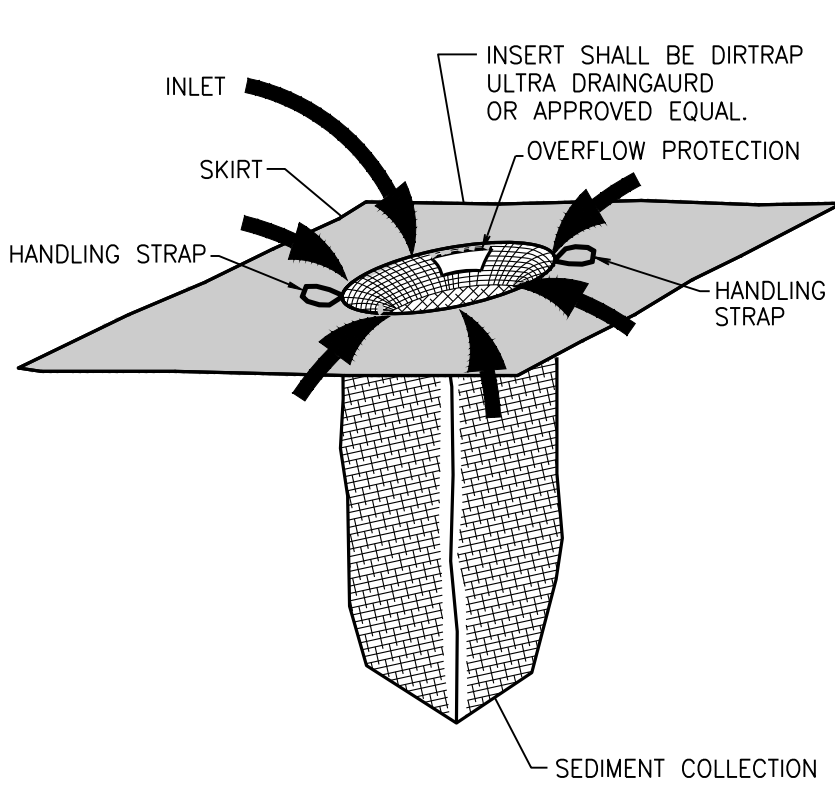
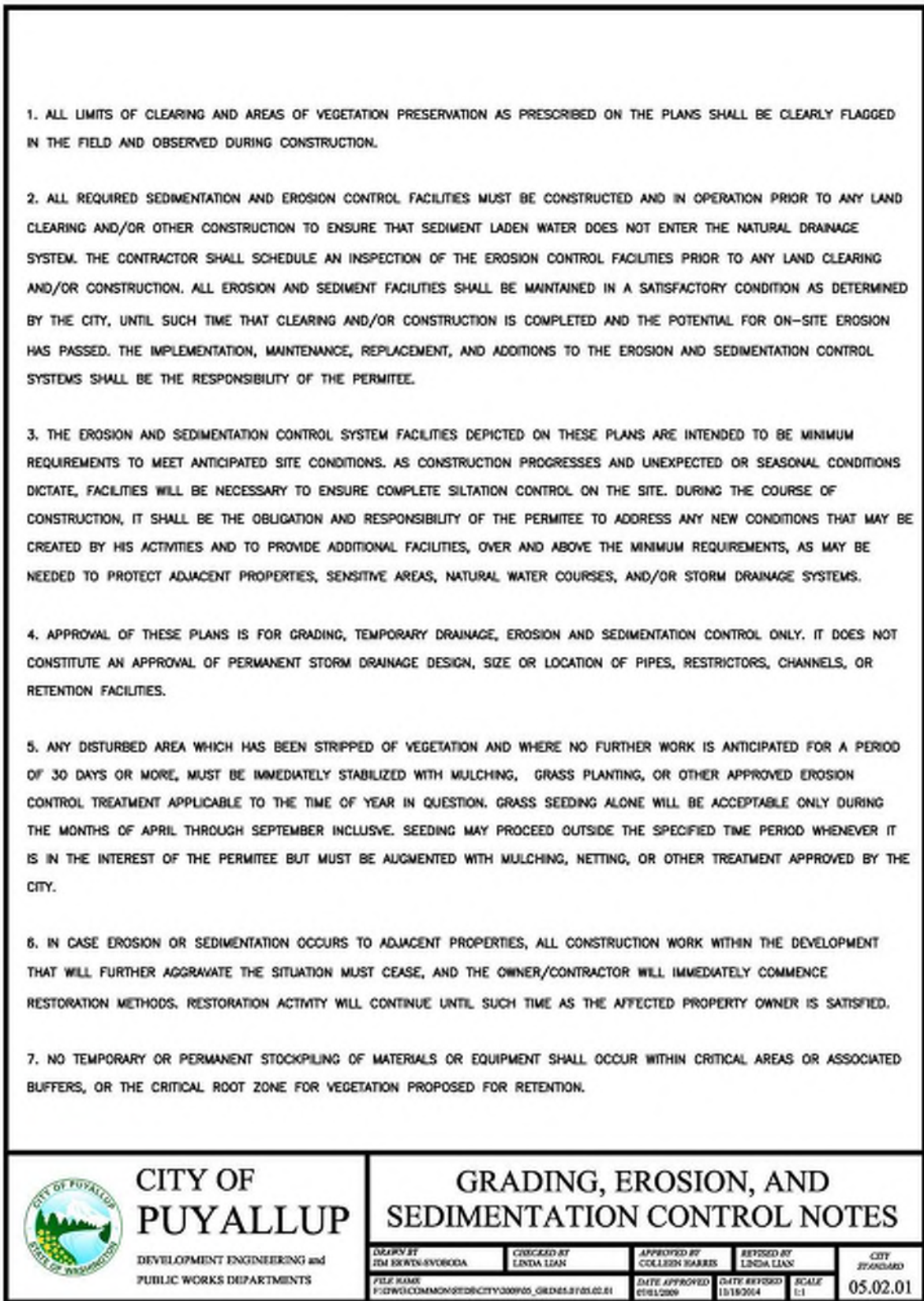
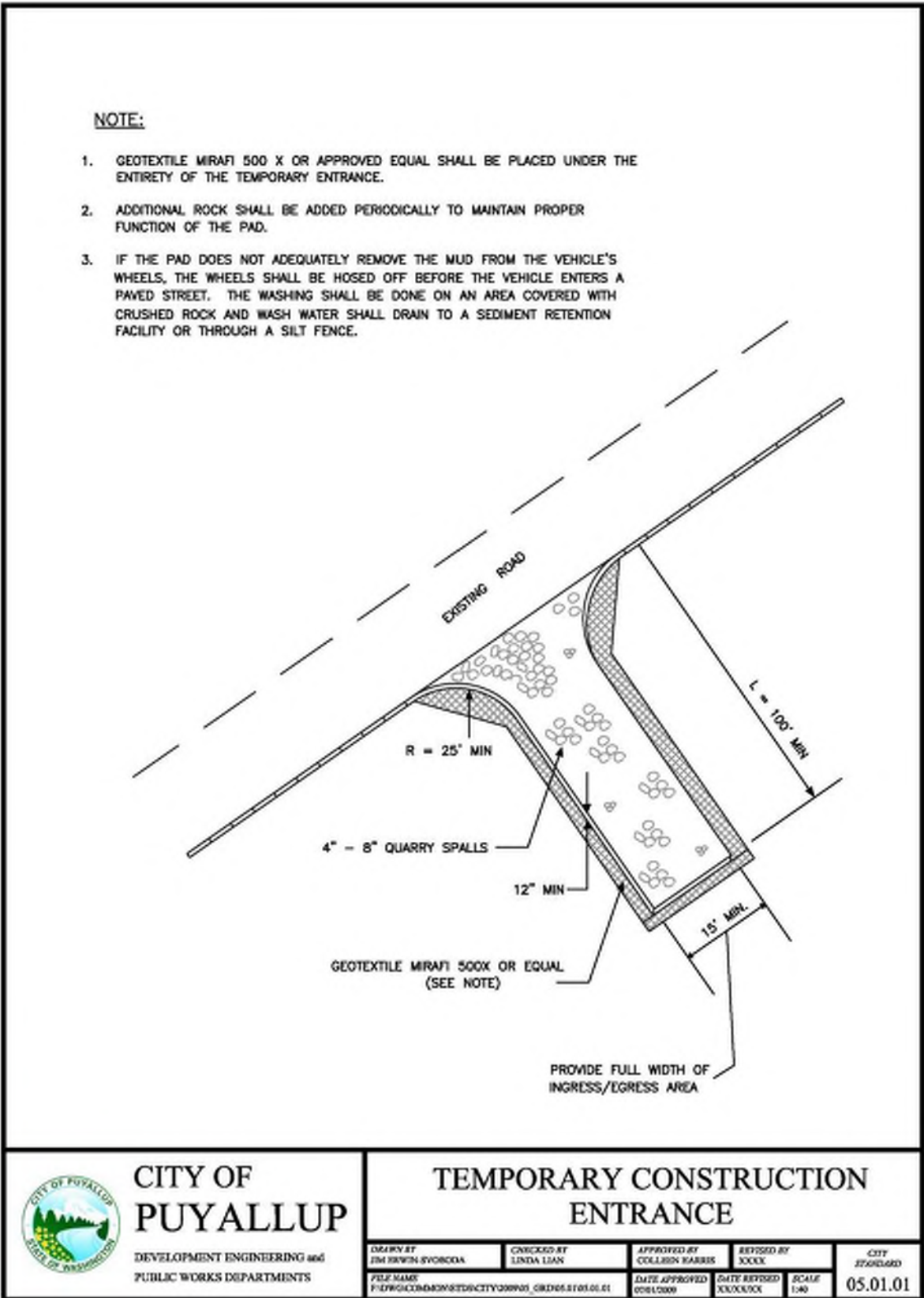
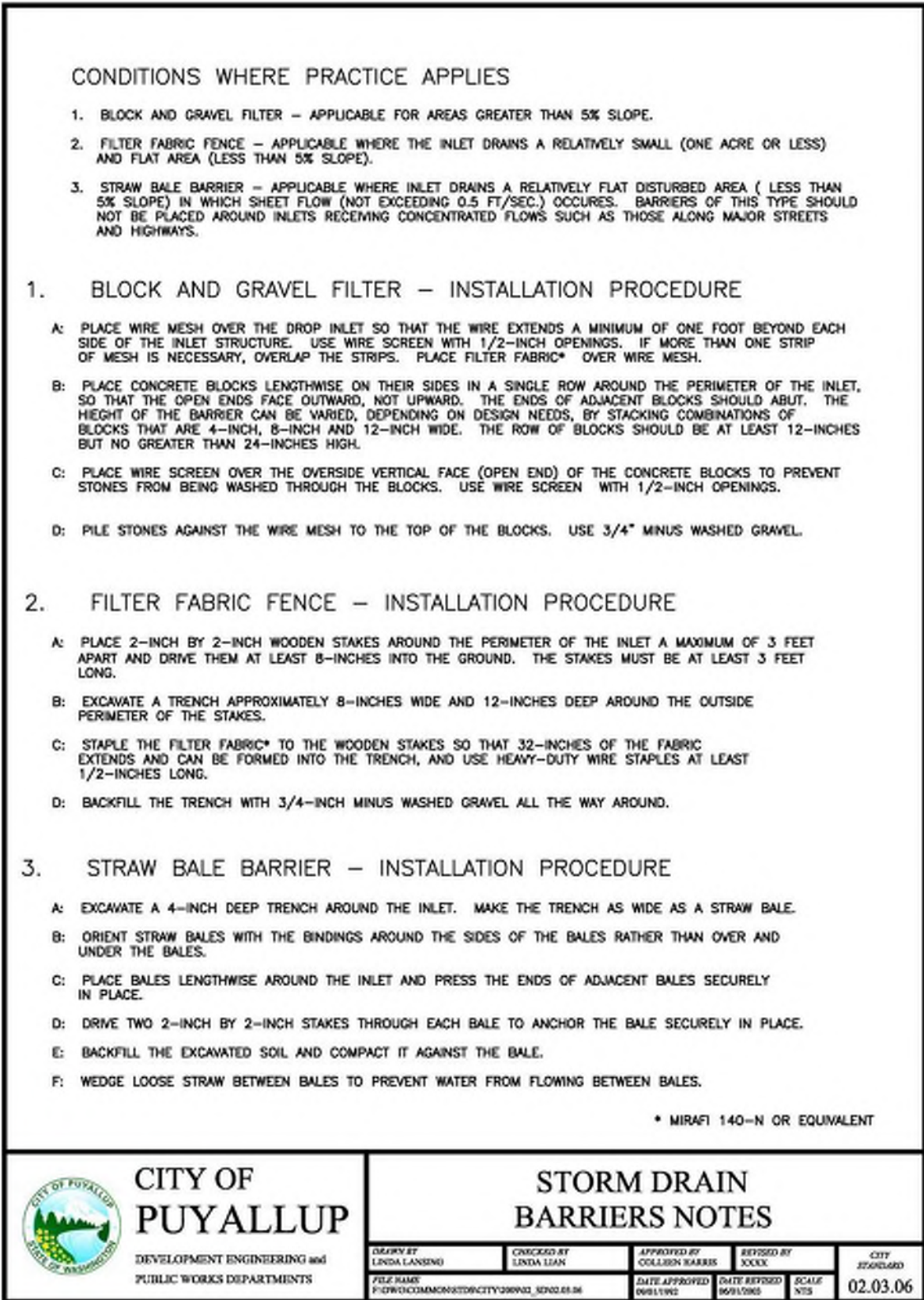
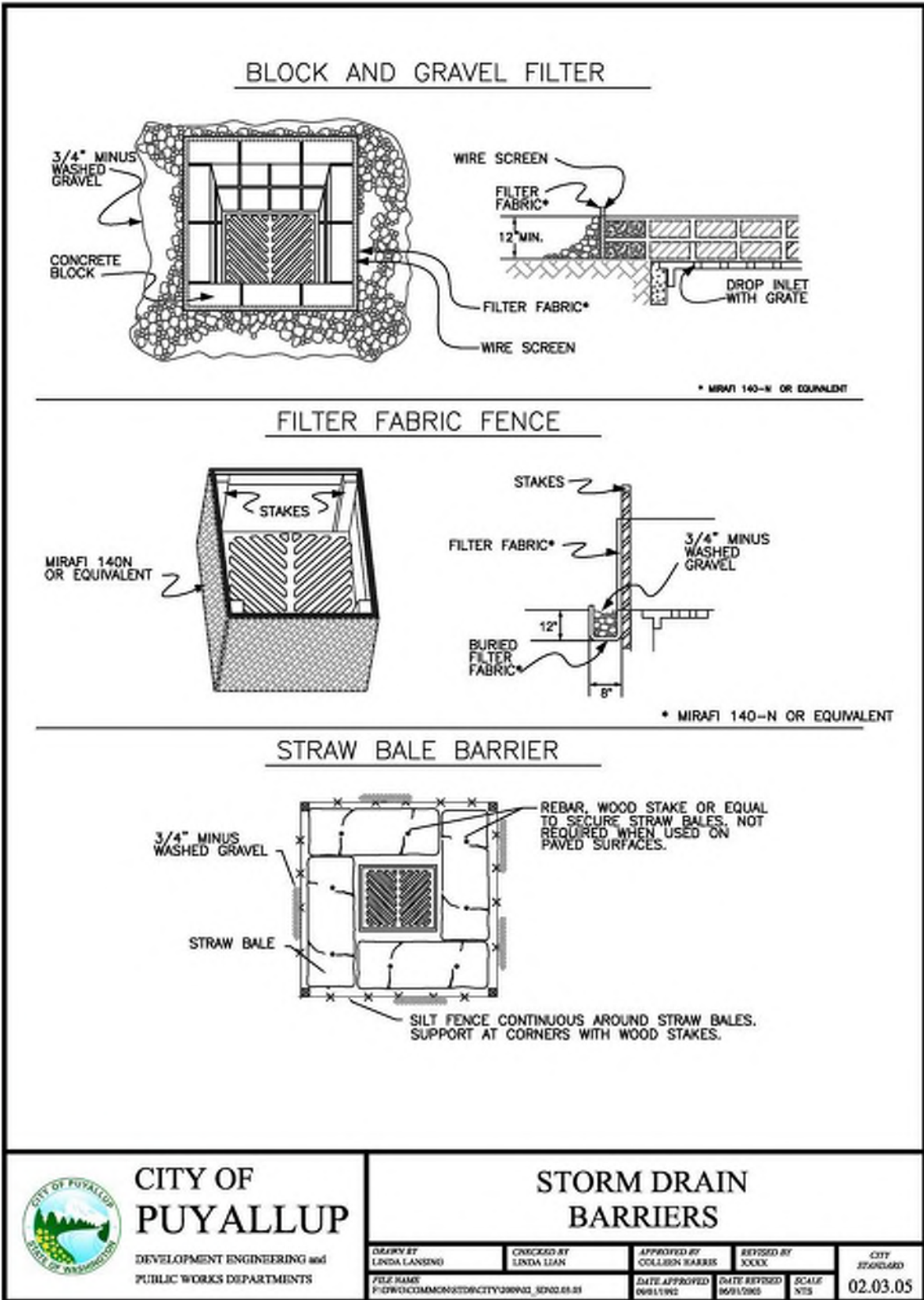
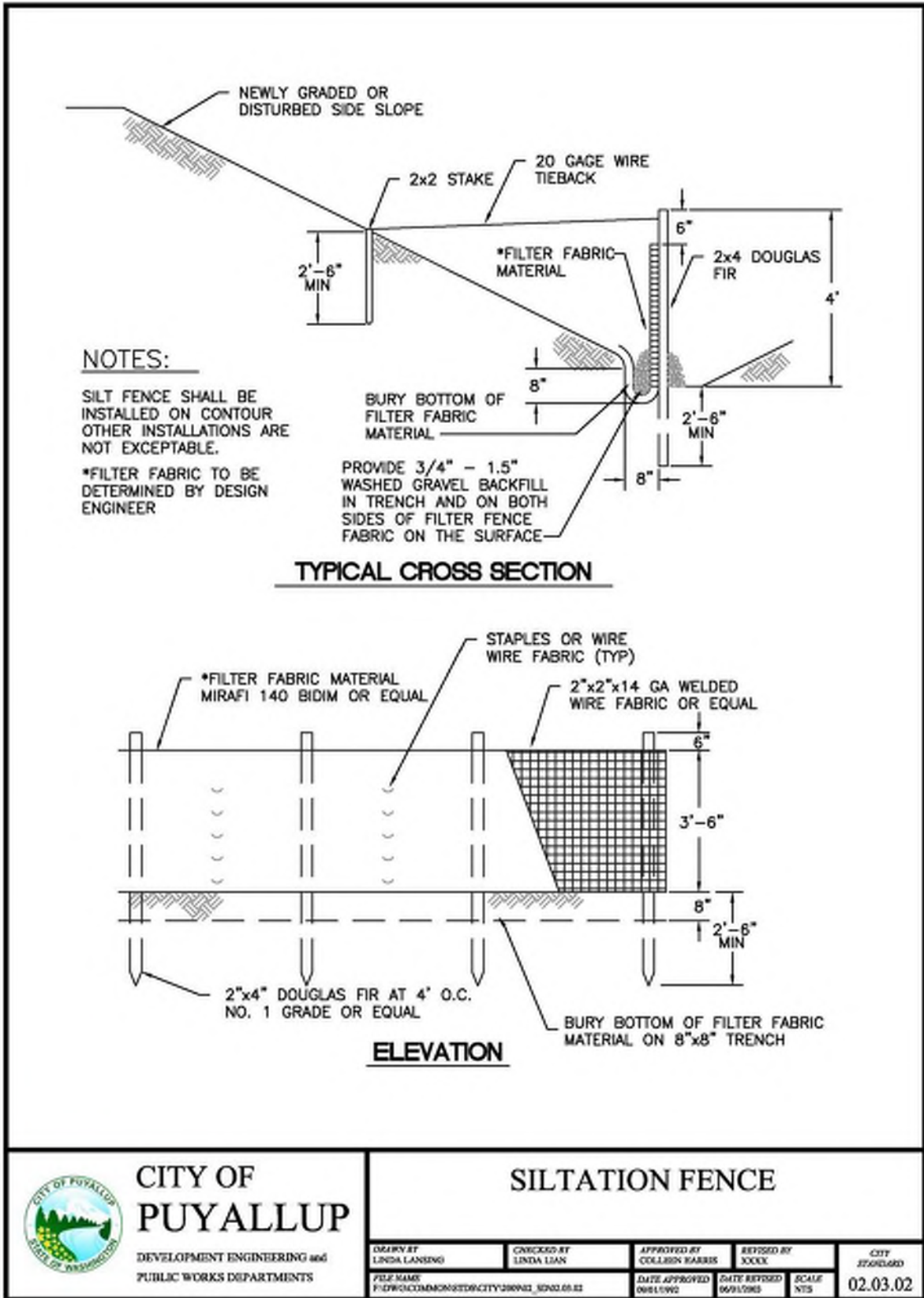
No.

Revision

TESC NOTES AND DETAILS
FOR

CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



STANDARD SWPPP NOTES

- ALL POLLUTANTS, INCLUDING WASTE MATERIALS, THAT OCCUR ONSITE SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
- COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE). ONSITE FUELING TANKS SHALL INCLUDE SECONDARY CONTAINMENT.
- MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES. SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ONSITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
- MEASURES SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF STORMWATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE, BUT ARE NOT LIMITED TO, BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS. STORMWATER DISCHARGES SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE WATER QUALITY STANDARD FOR PH IN THE RECEIVING WATER.

NOTES:

MATERIALS OF CONSTRUCTION

FABRIC:

NEEDLE PUNCHED NON-WOVEN GEOTEXTILE MATERIAL. FABRIC IS RESISTANT TO ULTRAVIOLET AND BIOLOGICAL DEGRADATION AND A BROAD RANGE OF CHEMICALS.

APPARENT OPENING SIZE (AOS):	80 US STANDARD SIEVE (0.180 MM)
GRAB TENSILE STRENGTH:	200 LBS
PUNCTURE STRENGTH:	130 LBS
MULLEN BURST:	400 PSI
TRAPEZOIDAL TEAR:	85 LBS
WATER FLOW RATE:	110 GPM/FT ²
PERMEABILITY:	0.38 CM/SECOND

DIMENSIONS

SKIRT:	24" X 36"
SOCK FILTER/SEPARATOR:	10" D X 24" L

DISPOSAL REQUIREMENTS

CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS FOR DISPOSAL OF INSERTS

CITY OF PUYALLUP GRADING EROSION AND SEDIMENTATION CONTROL NOTES

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A 'PUNCH LIST' PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE 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 PERMITEE.

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

PCR 001
PRCCP20240183

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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

TESC NOTES AND DETAILS
CENTERIS
VOLTAGE PARK

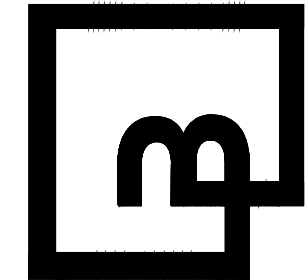
For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



12/4/24

Scale:	Horizontal	N/A	Vertical	N/A
Designed	KDM	KDM	Checked	CMV
Drawn	KDM	KDM	Approved	DKB
Date	12/4/24			

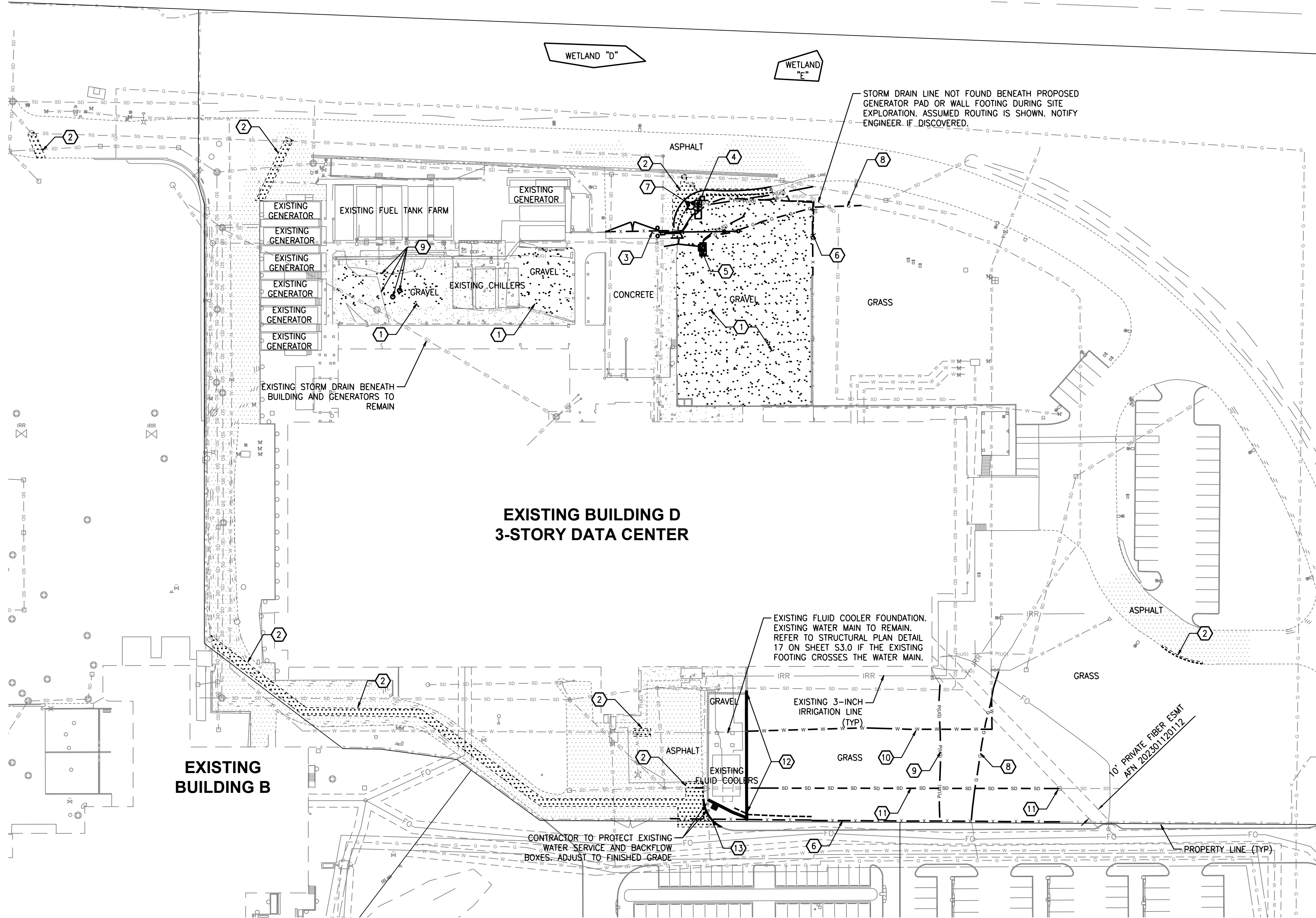
Barghausen
Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
18111
Sheet
C8 of 22

DEMOLITION PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - BUILDING D DEMOLITION

SCALE: 1" = 50'

GENERAL DEMOLITION NOTES

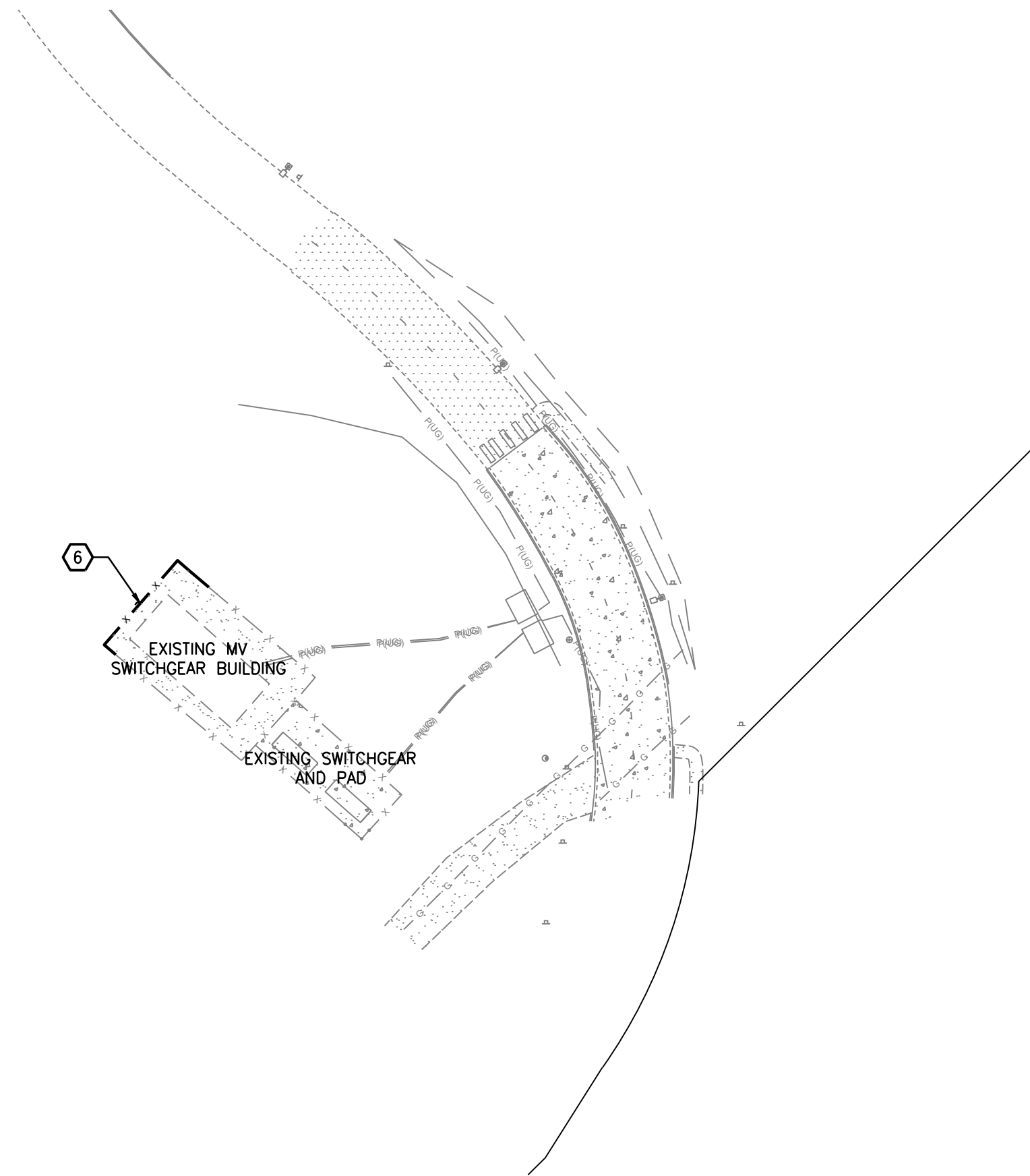
- CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK, INCLUDING DEMOLITION AND ANY SEWER CAPPING PERMITS. FIRE PROTECTION DEMOLITION PERMIT, IF REQUIRED, IS ISSUED BY FIRE DEPARTMENT. SEPARATE PERMITS ARE REQUIRED FOR EACH BUILDING AS WELL AS SEPARATE SEWER CAPPING PERMIT.
- ANY HAZARDOUS SUBSTANCES AND/OR MATERIALS ENCOUNTERED SHALL BE HANDLED AND DISPOSED OF BY QUALIFIED PERSONNEL ACCORDING TO COUNTY, STATE AND FEDERAL REGULATIONS.
- ANY ENCOUNTERED UNDERGROUND TANKS, VAULTS, ETC., SHALL BE REMOVED PER COUNTY/STATE REGULATIONS. CRAWL SPACES, TUNNELS, TANK HOLES, ETC., SHALL BE BACKFILLED AND COMPACTED PER GEOTECHNICAL ENGINEERS RECOMMENDATIONS.
- CONTRACTOR SHALL CONFIRM AND VERIFY WORK SCOPE ITEMS TO DEMOLISH WITH THE OWNERS AUTHORIZED REPRESENTATIVE.

DEMOLITION KEYNOTES

- | | | | |
|----|--|----|--|
| 1 | EXISTING GRAVEL PAD TO BE CLEARED WITHIN AREA OF CONSTRUCTION | 12 | EXISTING KEYSTONE BLOCK RETAINING WALL TO BE REMOVED WITHIN THE DEFINED LIMITS |
| 2 | EXISTING ASPHALT SURFACING TO BE REMOVED WITHIN THE DEFINED LIMITS. CONTRACTOR TO PROVIDE NEAT SAWCUT. | 13 | EXISTING CURBING TO BE REMOVED WITHIN THE DEFINED LIMITS |
| 3 | EXISTING SLIDING GATE, BOLLARD POSTS, AND MOTOR TO BE REMOVED. COORDINATE DISPOSAL WITH OWNER. | | |
| 4 | EXISTING YARD LIGHT TO REMAIN. | | |
| 5 | EXISTING ELECTRICAL CONDUIT AND PULL BOXES TO BE RELOCATED. COORDINATE WITH ELECTRICAL. | | |
| 6 | EXISTING FENCING TO BE REMOVED WITHIN THE DEFINED LIMITS. REFER TO ARCHITECTURAL PLANS FOR REPLACEMENT | | |
| 7 | EXISTING HYDRANT AND BOLLARDS TO BE RELOCATED. | | |
| 8 | EXISTING GAS SERVICE TO BE PROTECTED. | | |
| 9 | EXISTING MISC. UTILITIES AND CONDUIT. VERIFY SERVICE AND RELOCATE AS NECESSARY. | | |
| 10 | EXISTING FIRE LINE TO BE REMOVED AND RELOCATED. COORDINATE ALL SHUT DOWNS WITH UTILITY AND FIRE MARSHAL. | | |
| 11 | EXISTING STORM DRAIN LINE TO REMAIN, FILL WITH CDF. REMOVE EX CB. | | |

VOLTAGE PARK - SUB-STATION DEMOLITION

SCALE: 1" = 50'



UTILITY CONFLICT NOTE:

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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

CITY COMMENTS ON SOUTH YARD			
SOUTH UTILITY YARD AND NORTH FOND REVISIONS		Revision	
No.	Date	By	Appr.
9	12/3/24	KDM	CMW
8	10/25/24	KDM	CMW

Title:

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

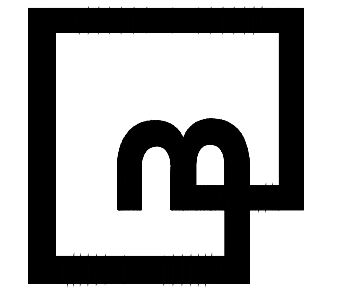


12/4/24

Scale: Horizontal 1" = 50' Vertical N/A

Designed	KDM
Drawn	KDM
Checked	CMW
Approved	DKB
Date	12/11/24

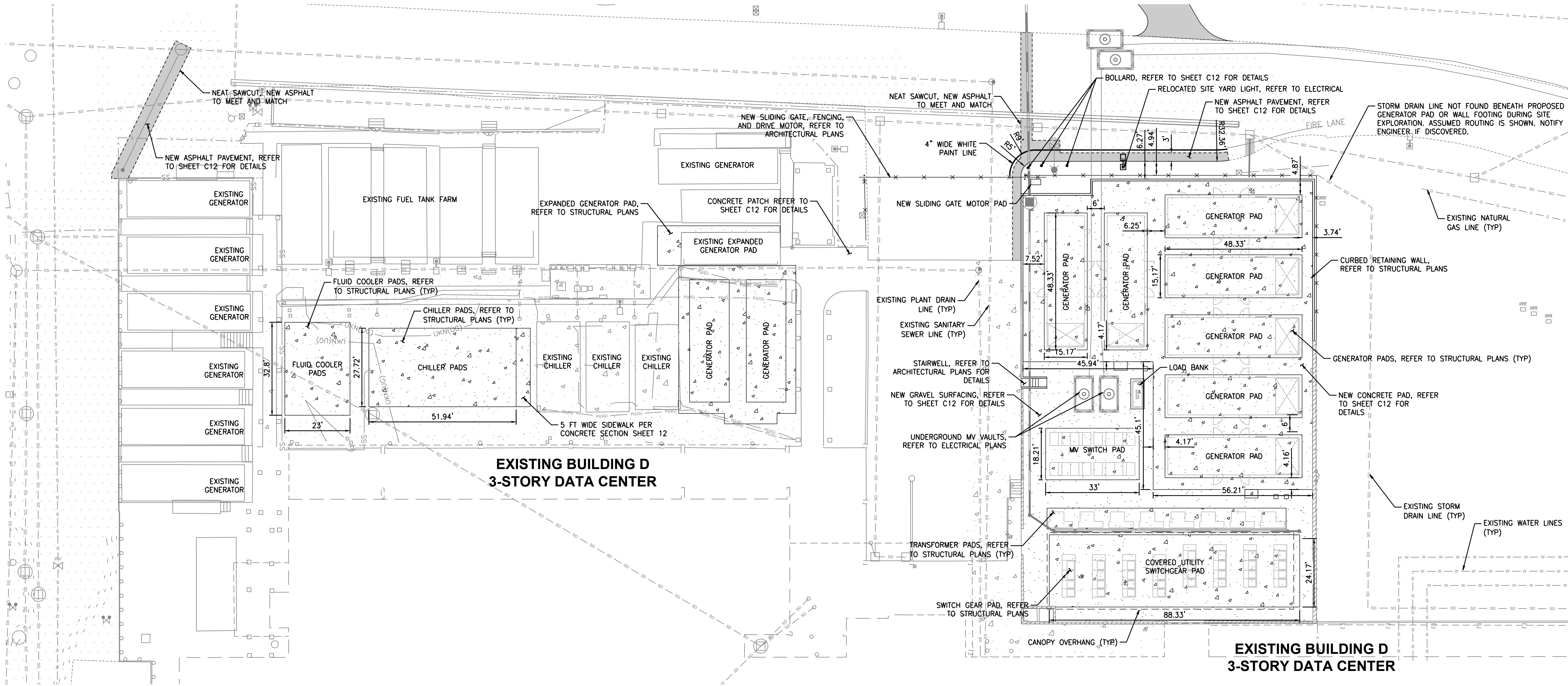
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18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number 18111
Sheet C9 of 22

NORTH SITE PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - NORTH UTILITY YARD

SCALE: 1" = 20'



PCR 001
PRCCP20240183

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

UTILITY CONFLICT NOTE:

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CITY COMMENTS ON SOUTH YARD				SOUTH UTILITY YARD AND NORTH POND REVISIONS				Revision	
No.	Date	By	Ckd.	Appr.	No.	Date	By	Ckd.	Appr.
9	12/3/24	KDM	CMV	CMV					
8	10/25/24	KDM	CMV	CMV					

For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

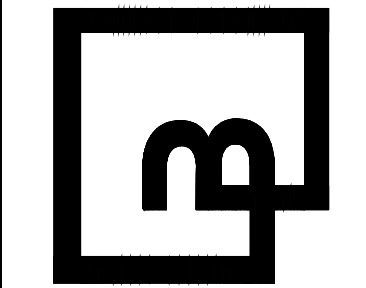


12/4/24

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Horizontal
1" = 20'
Vertical
N/A

Designed	KDM
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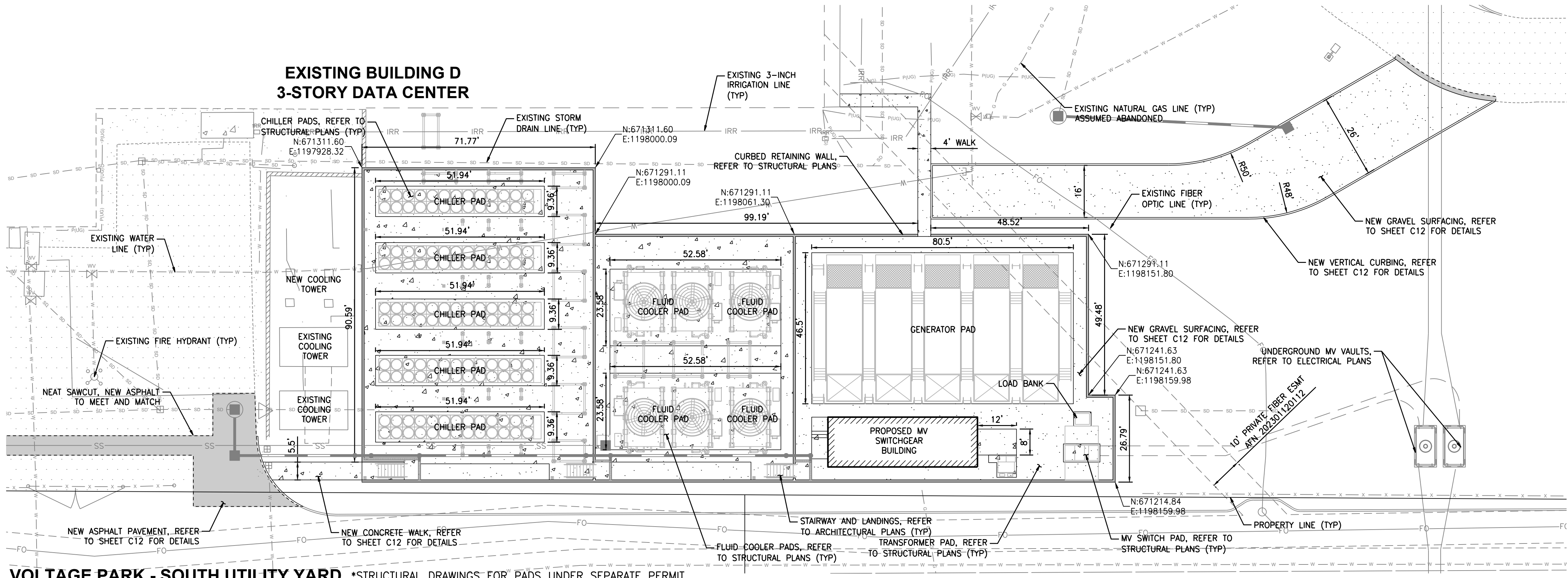
Barghausen Consulting Engineers, LLC.
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Job Number	18111
Sheet	C10 of 22

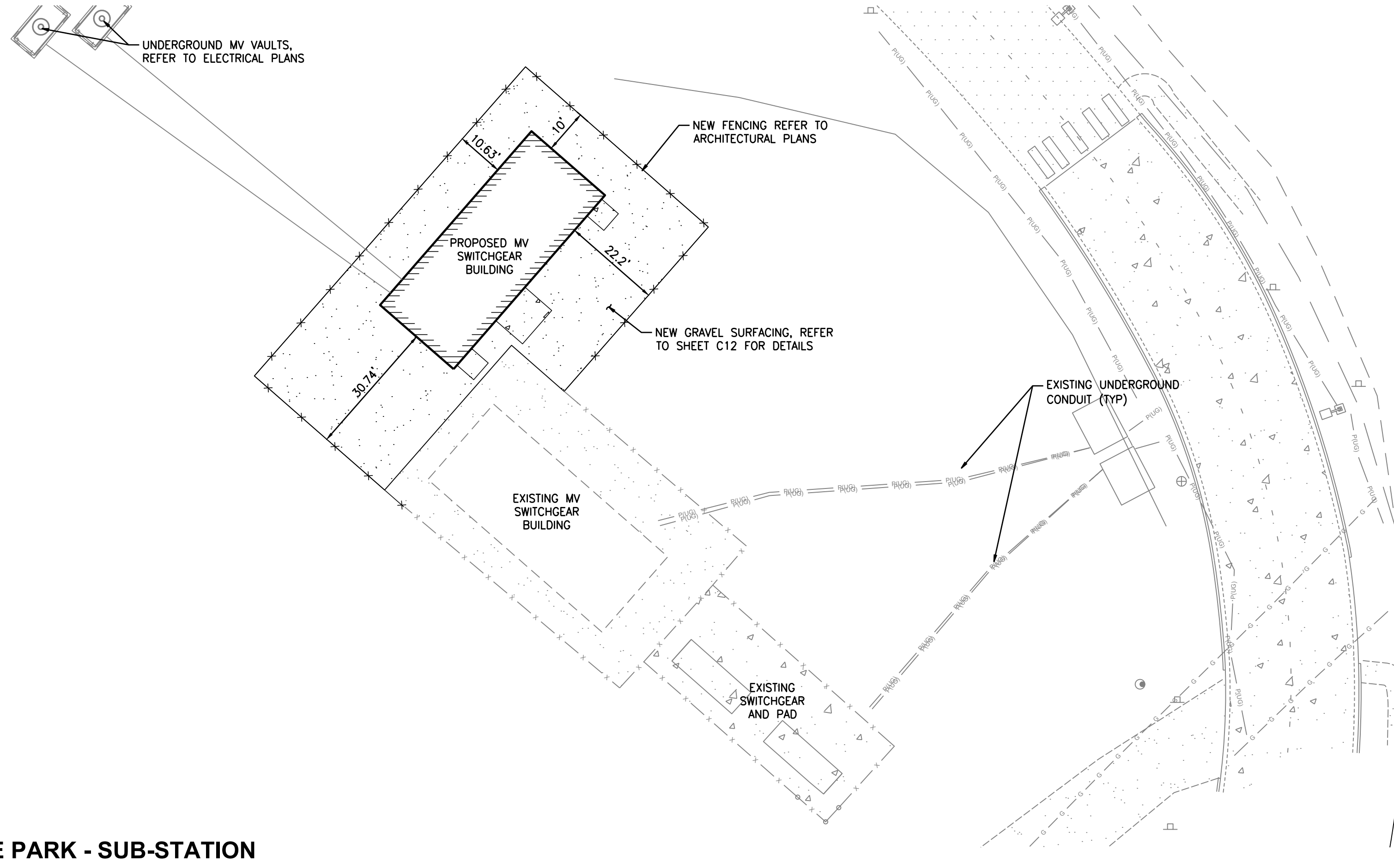
SOUTH SITE PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



0 10' 20' 40'
SCALE: 1"=20'

SCALE: 1" = 20'



VOLTAGE PARK - SUB-STATION

SCALE: 1" = 20'

PCR 001
PRCCP20240183

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

UTILITY CONFLICT NOTE:

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For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
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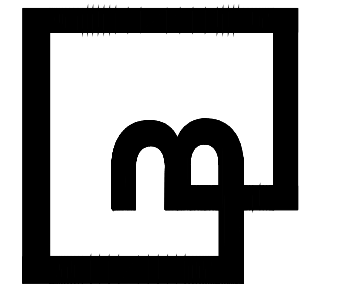


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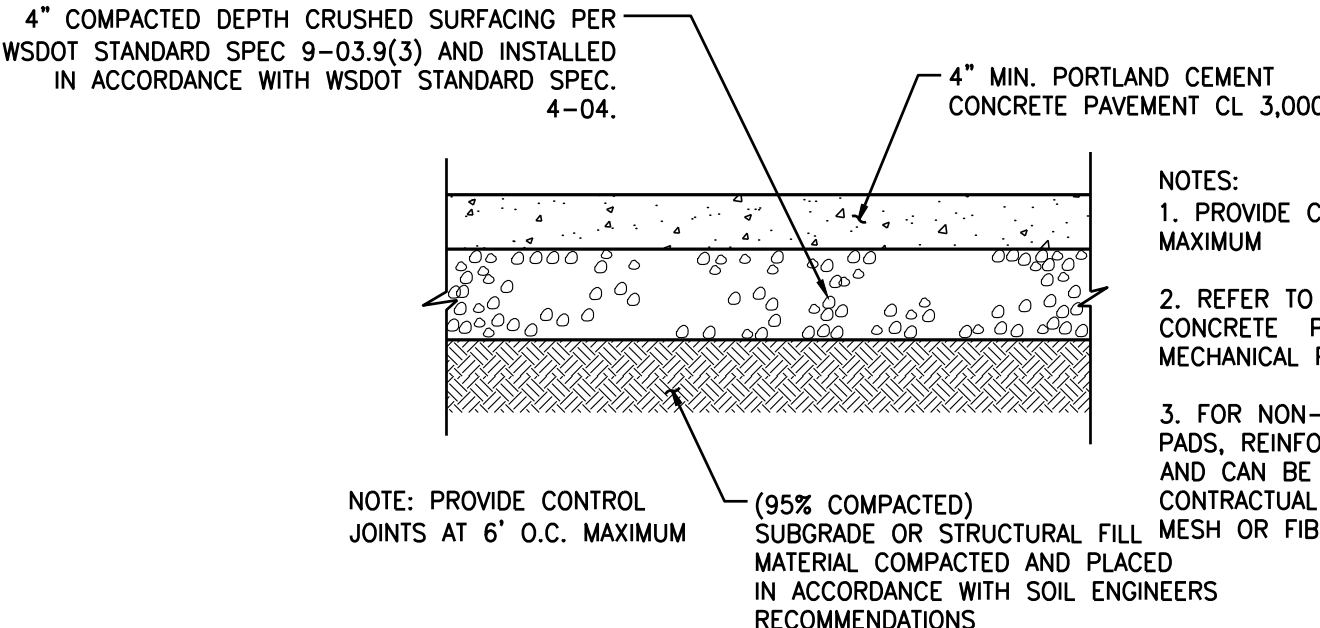
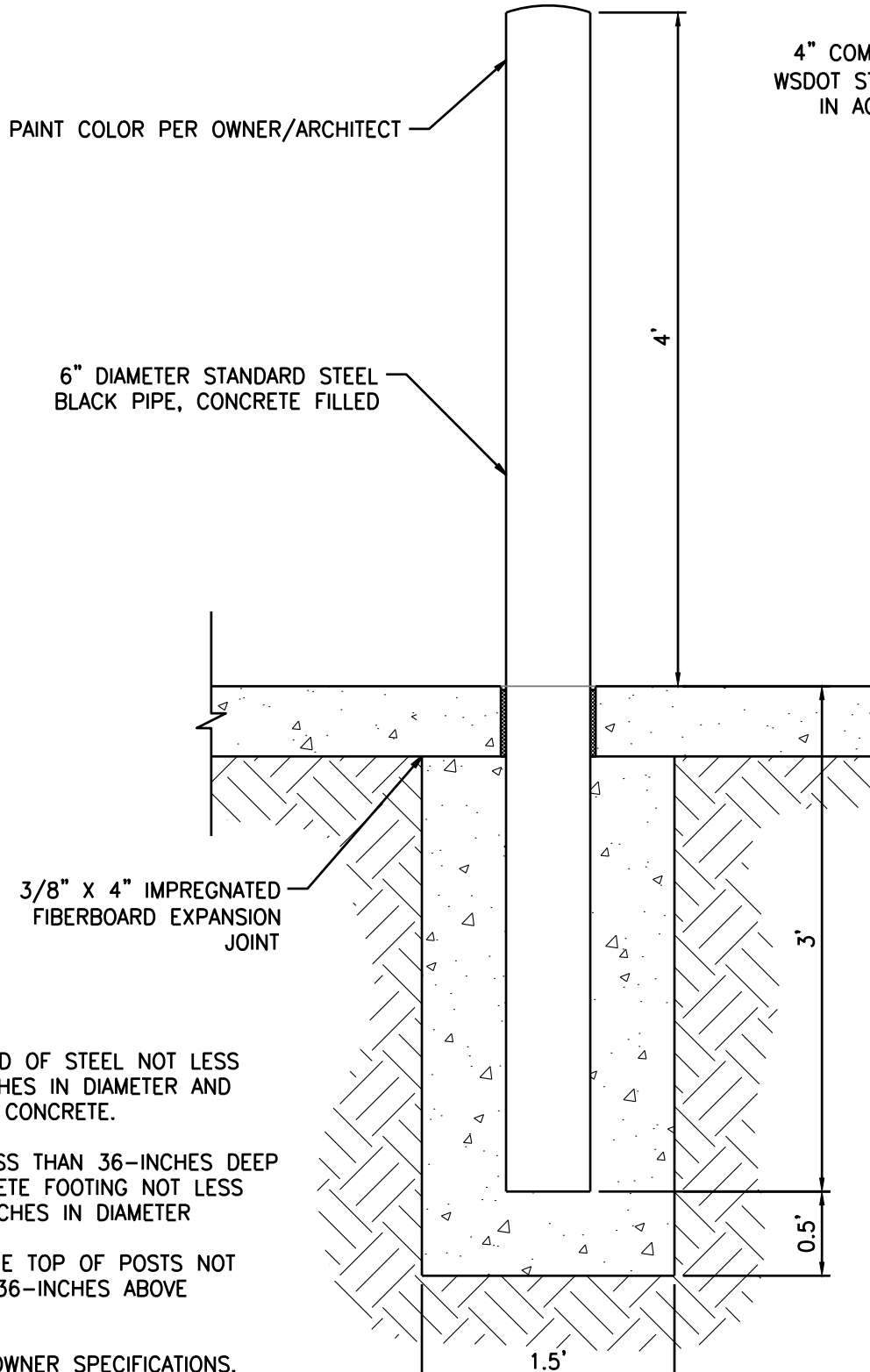
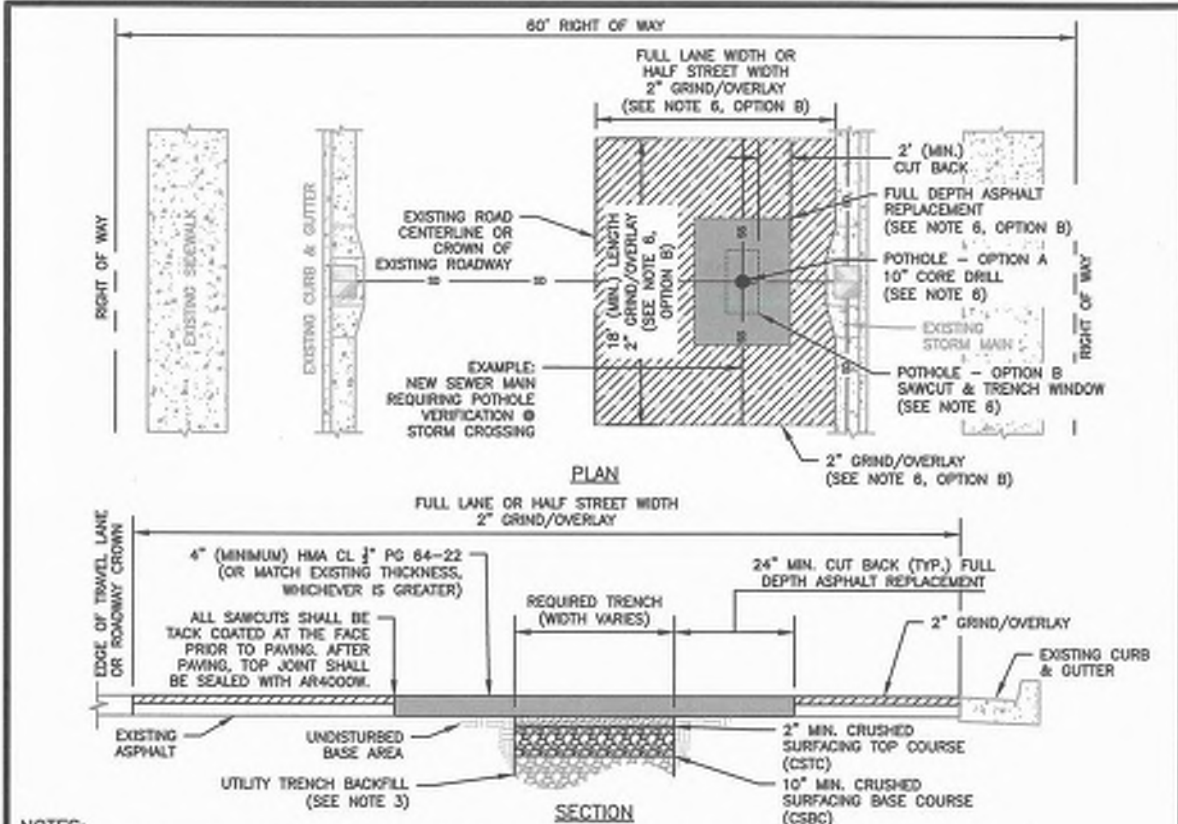
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barghausen.com



Job Number
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Sheet
C11 22

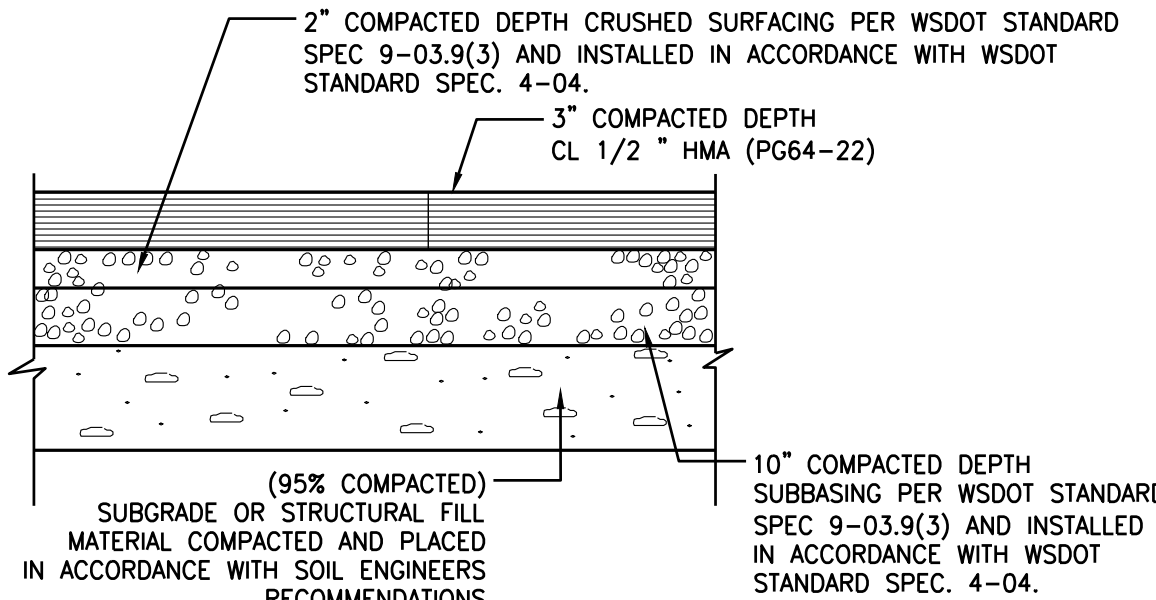
SITE DETAILS FOR

CENTERIS VOLTAGE PARK



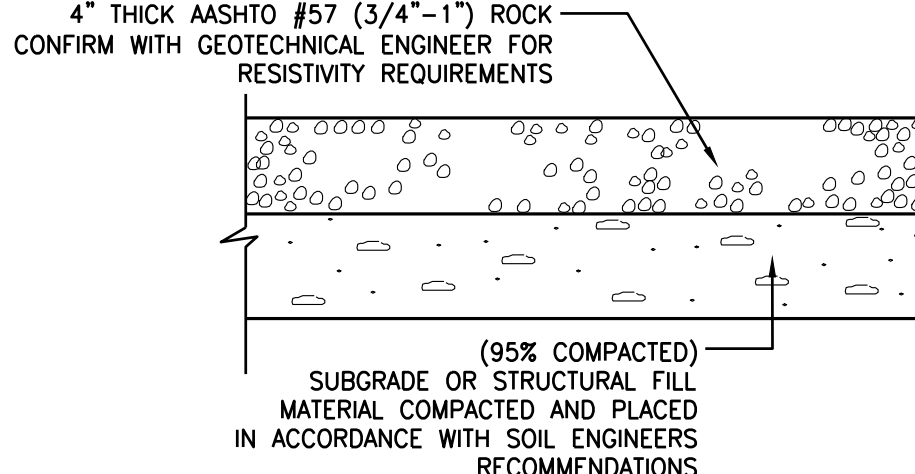
CONCRETE PAVEMENT SECTION DETAIL

SCALE: NOT TO SCALE



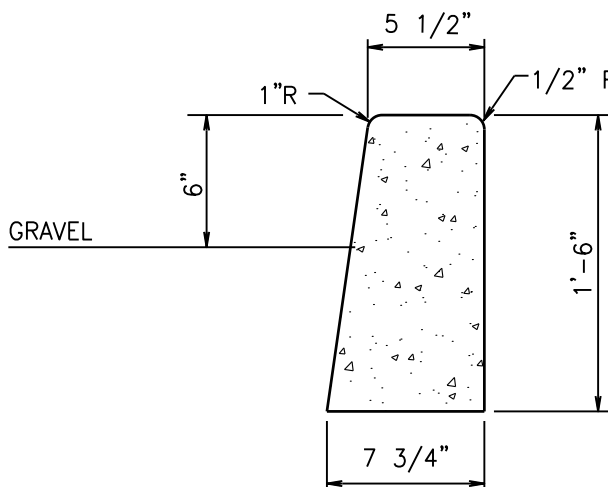
GRAVEL PAVEMENT SECTION DETAIL

SCALE · NOT TO SCALE



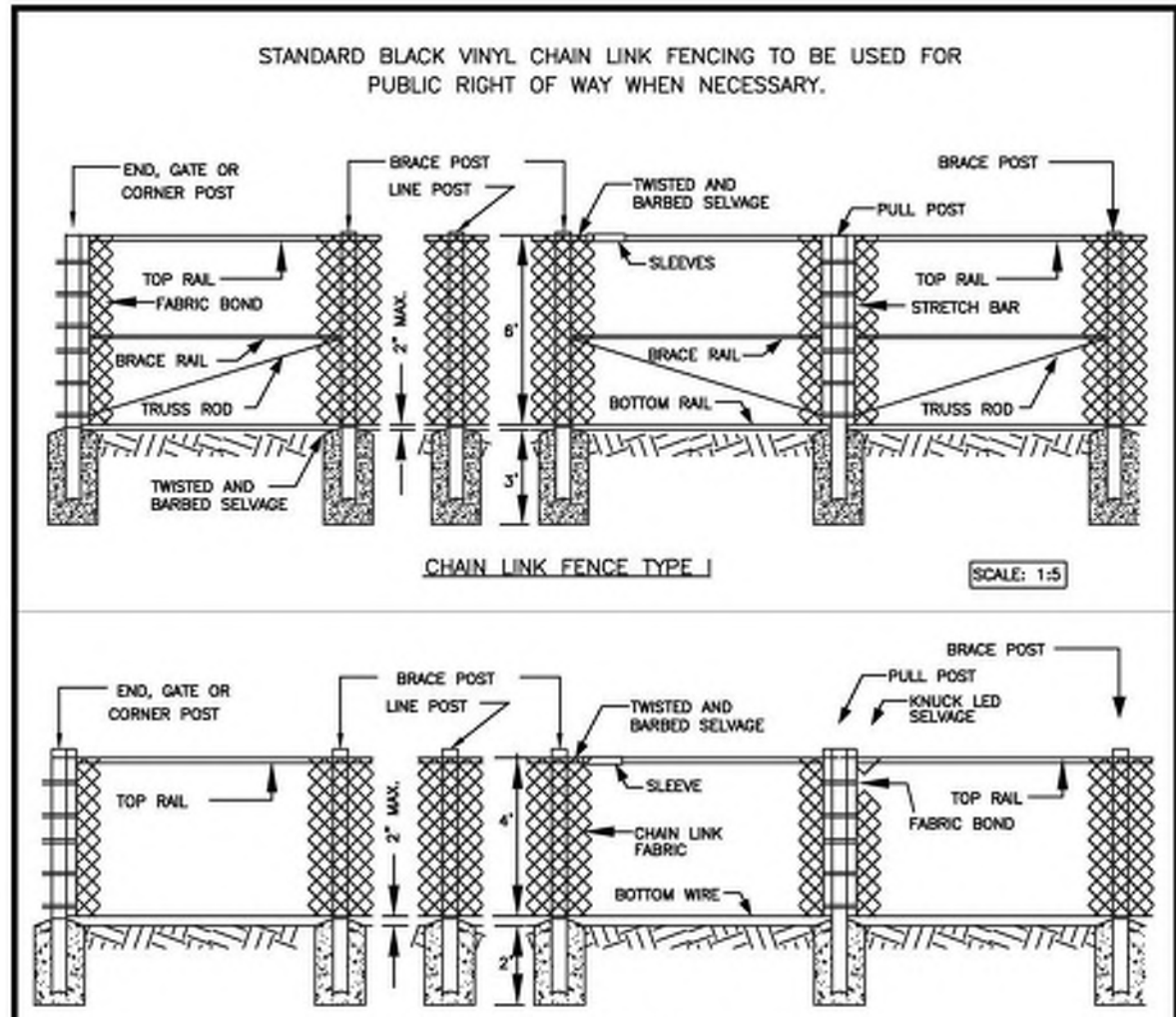
BOLLARD DETAIL

SCALE: NOT TO SCALE



6" VERTICAL CURB DETAIL

SCALE: NOT TO SCALE



UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD ARISE, THE CONTRACTOR SHALL CONSULT WITH THE CONSULTING ENGINEERS, INC. BEFORE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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

No	Date	Rv	Cvtd	Appr	Revision
9	12/3/24	KDM	CMW	CMW	CITY COMMENTS ON SOUTH YARD
8	10/25/24	KDM	CMW	CMW	SOUTH UTILITY YARD AND NORTH POND REVISIONS

Title:

SITE DETAILS

CENTERS

VOLTAGE PARK

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
06675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040




12/4/24

Scale: Horizontal N/A Vertical N/A

Designed	KDM
Drawn	KDM
Checked	CMV
Approved	DKB

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**



1811106 NUMBER

Sheet

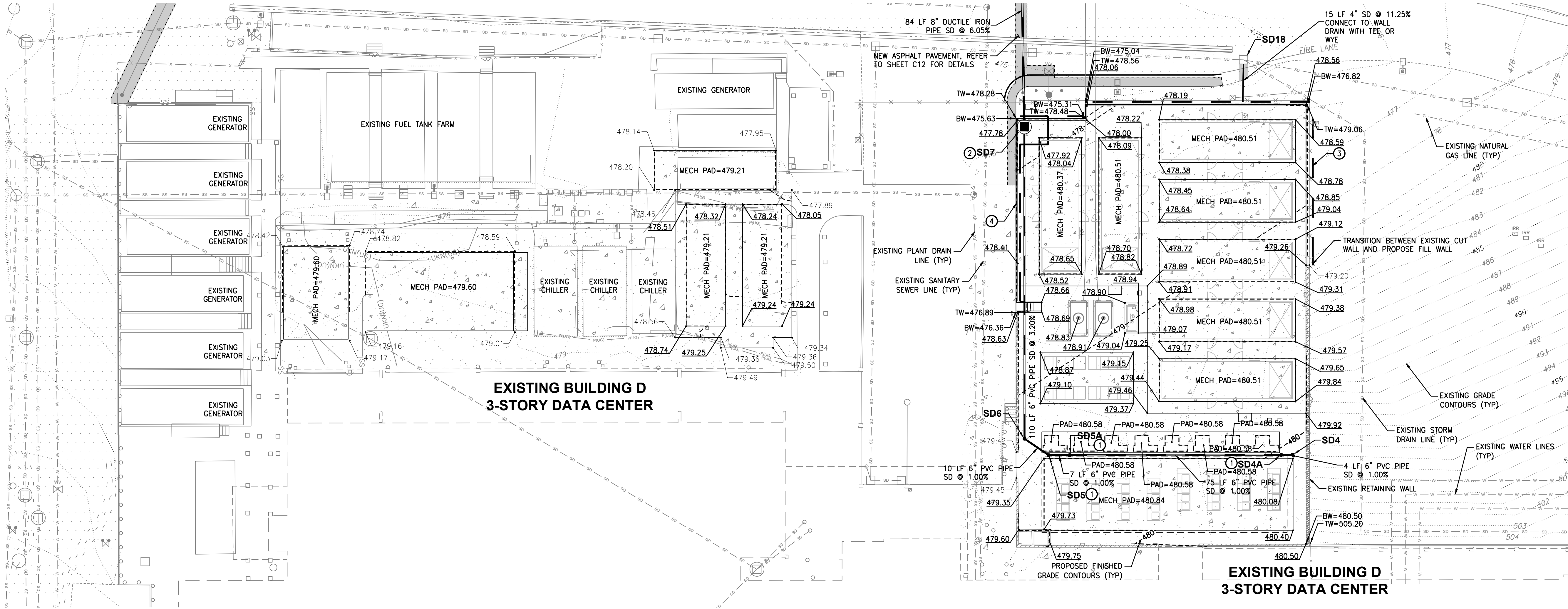
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NORTH GRADING & DRAINAGE PLAN
FOR

CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - NORTH UTILITY YARD

SCALE: 1" = 20'

STORM STRUCTURES
SD4 SDCO - 6" N: 671561.19 E: 1197973.51 RIM=480.07 IE=477.50 (6" W)
SD4o SDCO - 6" N: 671561.18 E: 1197969.46 RIM=480.03 IE=477.46 (6" E) IE=477.46 (6" W)
SD5 SDCO - 6" N: 671561.05 E: 1197987.06 RIM=479.35 IE=476.64 (6" E) IE=476.64 (6" NW)

STORM STRUCTURES
SD5o SDCO - 6" N: 671561.06 E: 1197894.49 RIM=479.42 IE=476.71 (6" E) IE=476.71 (6" W)
SD6 SDCO - 6" N: 671566.88 E: 1197878.47 RIM=479.21 IE=476.54 (6" SE) IE=476.54 (6" N)
SD7 CB TYPE 2 - 48" N: 671677.36 E: 1197878.41 RIM=477.83 IE=473.00 (6" S) IE=472.00 (8" N)

STORM STRUCTURES
SD18 EXISTING CATCH BASIN N: 671701.10 E: 1197956.11 RIM=474.82 IE=469.54 (10" SE) IE=471.82 (4" S)

GRADING GENERAL NOTES

- ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS AND THE GEOTECHNICAL REPORTS PREPARED BY GEOENGINEERS DATED JUNE 14TH AND 19TH, 2024. THE GRADING AND IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION OF THE PUBLIC WORKS DEPARTMENT.
- ALL EXISTING UTILITY STRUCTURE LIDS THAT FALL WITHIN THE AREA OF WORK SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS. THE CONTRACTOR SHALL CONFIRM THE FEASIBILITY OF ADJUSTING EXISTING UTILITY STRUCTURE LIDS TO FINISHED GRADE PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

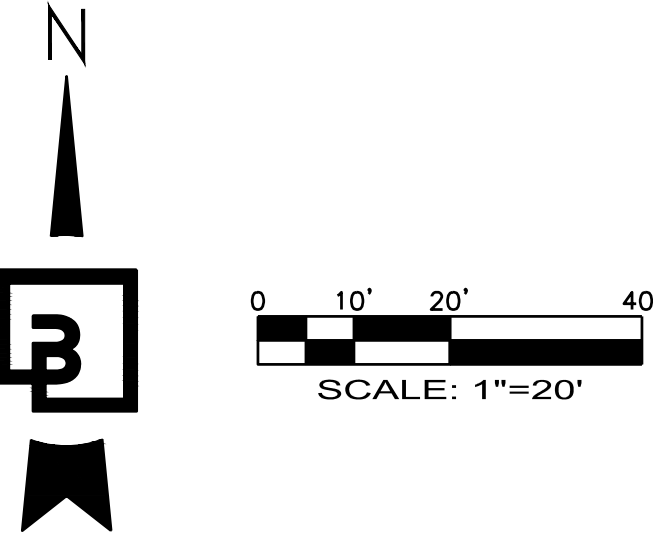
TW - TOP OF WALL
BW - BOTTOM OF WALL
- ALL SPOT ELEVATIONS SHOWN ARE TO FINISHED SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT) UNLESS OTHERWISE NOTED.
- GEOTECHNICAL INVESTIGATION OF OF THE AREA DOWN GRADIENT OF THE PROJECT WITHIN THE INFILTRATION POND LOCATION DID NOT ENCOUNTER A SEASONAL HIGH WATER TABLE. REFER TO THE PREPARED GEOTECHNICAL REPORTS.

STORM DRAIN GENERAL NOTES

- ALL STORM DRAIN (SD) LINES SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED. ALL STORM DRAIN PIPES AND STRUCTURES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CITY OF PUYALLUP STANDARDS.

STORM KEYNOTES

- CONNECT CANOPY ROOF DRAIN DOWNSPOUT TO SDCO PER DETAIL ON SHEET C16
- TYPE 2 - 48" CATCH BASIN PER CITY OF PUYALLUP STANDARD PLAN 02.01.04
- RETAINING WALL FOOTING DRAIN REFER TO DETAIL ON SHEET C17 AND COORDINATE WITH STRUCTURAL PLANS
- RETAINING WALL, REFER TO STRUCTURAL PLANS



PCR 001
PRCCP20240183

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

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

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

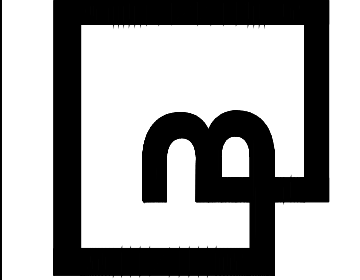


12/4/24

Scale:
Horizontal
1" = 20'
Vertical
N/A

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 12/4/24

Barghausen
Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
18111
Sheet
C13 of 22

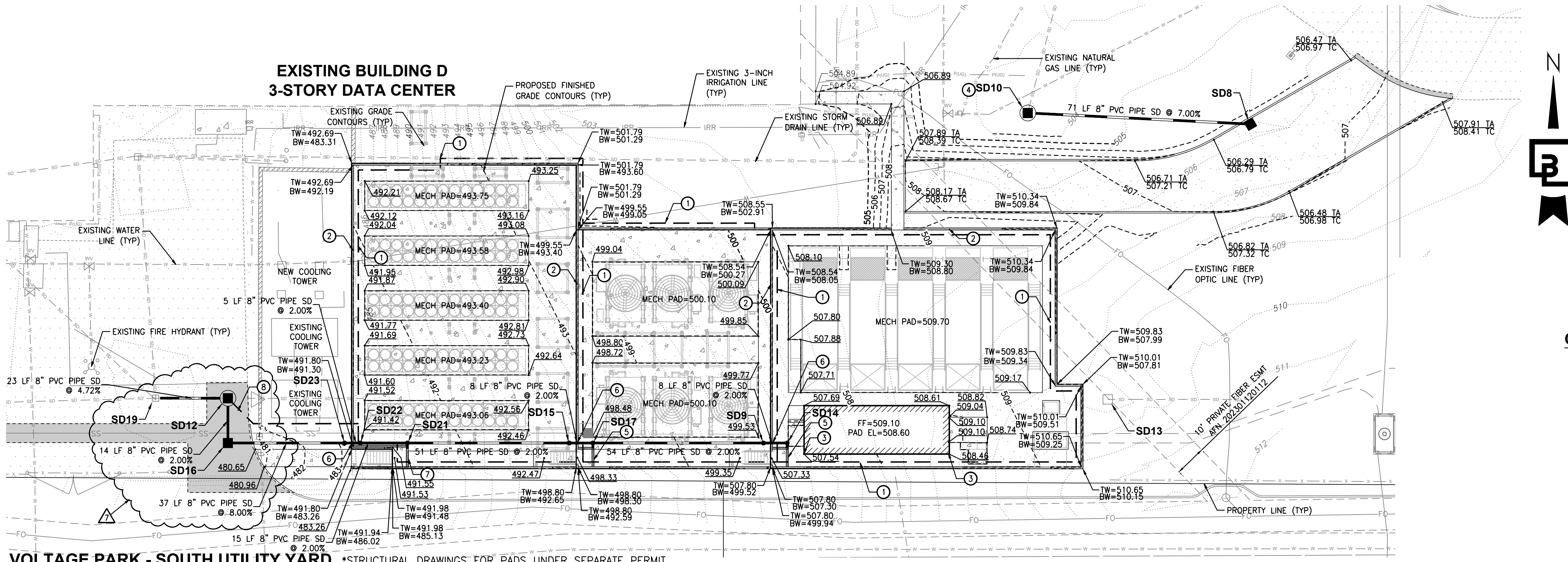
Title:
NORTH GRADING & DRAINAGE PLAN
CENTERIS
VOLTAGE PARK

CITY COMMENTS ON SOUTH YARD			
No.	Date	By	Appr.
9	12/3/24	KDM	CMV
8	10/25/24	KDM	CMV
SOUTH UTILITY YARD AND NORTH POND REVISIONS			
Revision			

SOUTH GRADING & DRAINAGE PLAN
FOR

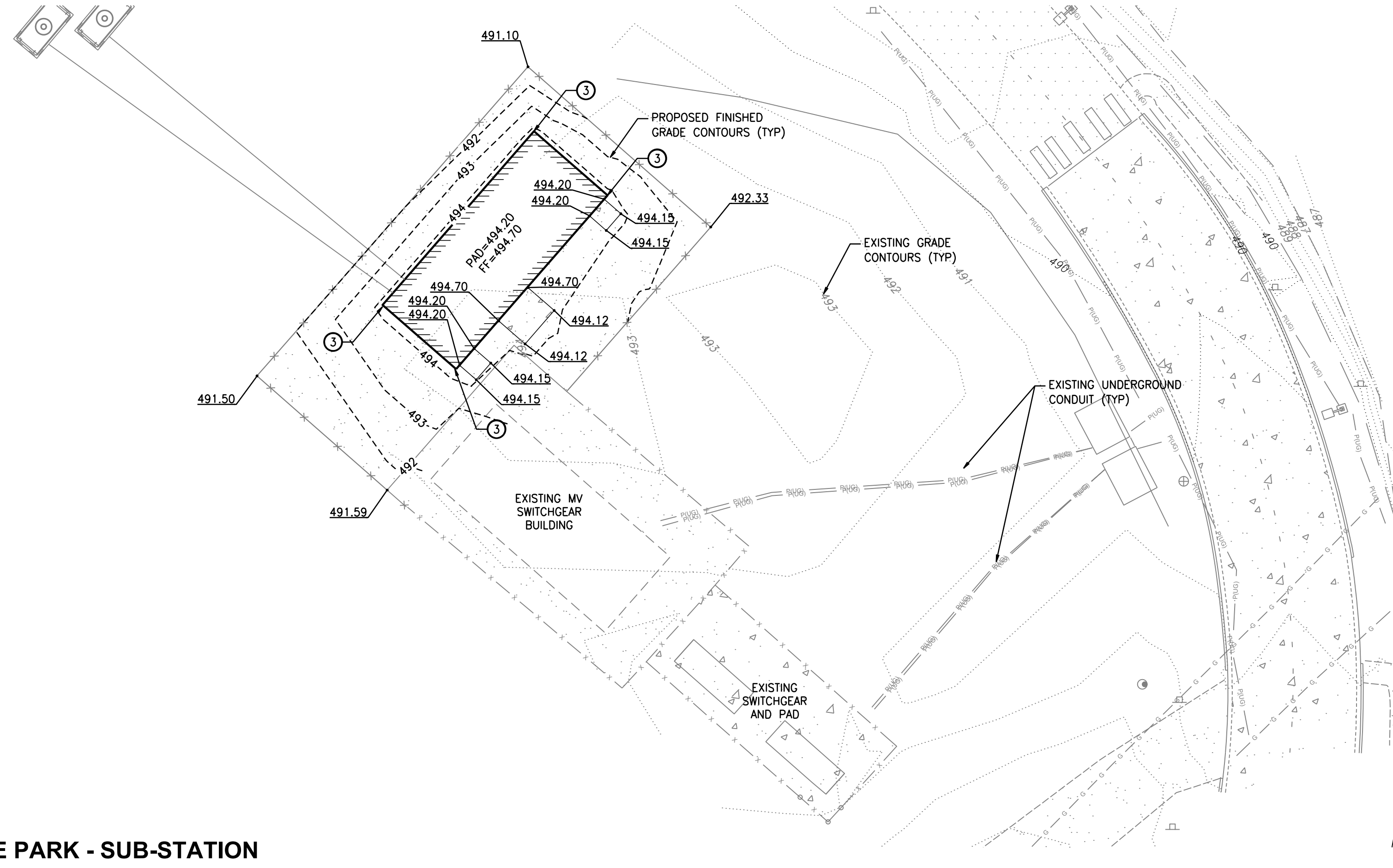
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



VOLTAGE PARK - SOUTH UTILITY YARD *STRUCTURAL DRAWINGS FOR PADS UNDER SEPARATE PERMIT

SCALE: 1" = 20'



VOLTAGE PARK - SUB-STATION

SCALE: 1" = 20'

GRADING GENERAL NOTES

- ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS AND THE GEOTECHNICAL REPORTS PREPARED BY GEOTECHNICAL ENGINEERS DATED JUNE 14TH AND 19TH, 2024. THE GRADING AND IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION OF THE PUBLIC WORKS DEPARTMENT.
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STORM DRAIN GENERAL NOTES

- ALL STORM DRAIN (SD) LINES SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED. ALL STORM DRAIN PIPES AND STRUCTURES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CITY OF PUYALLUP STANDARDS.

STORM KEYNOTES

- RETAINING WALL FOOTING DRAIN REFER TO DETAIL ON SHEET C17 AND COORDINATE WITH STRUCTURAL PLANS FOR SLEEVING THROUGH FOUNDATION WALL.
- RETAINING WALL, REFER TO STRUCTURAL PLANS
- ROOF DRAIN SPLASH BLOCK PER CITY OF PUYALLUP STANDARD PLAN 02.05.05
- CONNECTION TO EXISTING STORM DRAIN LINE. CONTRACTOR TO FIELD VERIFY MATERIAL, SLOPE AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 10.5' LF ACO KS200 8" WIDE TRENCH DRAIN WITH LOAD CLASS E GRATE. 8" OUTLET
- SLEEVE THROUGH FOUNDATION RETAINING WALL FOR DRAIN PIPE. REFER TO STRUCTURAL PLANS
- 24' LF ACO KS200 8" WIDE TRENCH DRAIN WITH LOAD CLASS E GRATE. 8" OUTLET
- FOUNDATION DRAIN CONNECTION TO STORM DRAIN MANHOLE. FOUNDATION DRAIN TO HAVE A MINIMUM OF 3' COVER.

STORM STRUCTURES
SD8 CB TYPE 1L - 28" X 32" STD. GRATE 8" SPILL CONTROL TEE N: 671223.00 E: 1198066.31 RIM=507.47 IE=504.80 (8" S) IE=488.97 (8" S) IE=502.17 (8" W)
SD9 SDCO - 8" N: 671223.00 E: 1198058.80 RIM=499.55 IE=496.88 (8" E) IE=496.88 (8" W)
SD10 TYPE 2-48" N: 671327.48 E: 1198142.47 RIM=503.01 IE=497.23 (8" E) IE=497.23 (12" N)
SD12 CB TYPE 2 - 48" SOLID COVER N: 671237.17 E: 1197889.17 RIM=480.32 IE=477.06 (8" S) IE=477.06 (8" W)
SD13 EXISTING CB TO BE REMOVED N: 671236.79 E: 1198167.80 RIM=507.60 IE=502.72 (6" E)

STORM STRUCTURES
SD14 SDCO - 8" N: 671223.00 E: 1198066.31 RIM=507.47 IE=504.80 (8" S) IE=488.97 (8" W)
SD15 SDCO - 8" N: 671223.00 E: 1197997.26 RIM=492.68 IE=490.00 (8" E) IE=490.00 (8" W)
SD16 CB TYPE 1L - 28" X 32" SOLID COVER 8" SPILL CONTROL TEE N: 671223.00 E: 1197889.17 RIM=480.33 IE=477.34 (8" E) IE=477.34 (8" N)
SD17 SDCO - 8" N: 671223.00 E: 1198004.76 RIM=498.47 IE=495.80 (8" E) IE=495.80 (8" S) IE=490.15 (8" W)
SD19 EXISTING CB N: 671237.20 E: 1197866.26 RIM=479.65 IE=475.98 (8" E)

STORM STRUCTURES
SD21 SDCO - 8" N: 671223.00 E: 1197945.99 RIM=491.65 IE=488.97 (8" E) IE=488.97 (8" S) IE=488.97 (8" W)
SD22 SDCO - 8" N: 671223.00 E: 1197931.15 RIM=489.72 IE=488.67 (8" E) IE=488.67 (8" W)
SD23 SDCO - 8" N: 671223.00 E: 1197926.15 RIM=482.98 IE=480.30 (8" E) IE=480.30 (8" W)

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

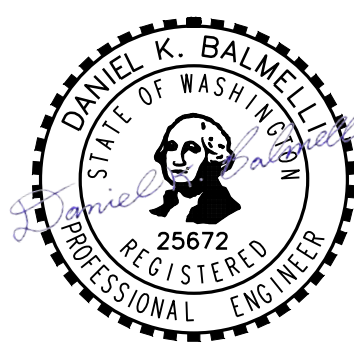
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PCR 001
PRCCP20240183

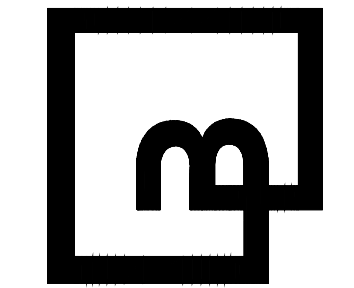
For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



12/4/24

Scale:	Horizontal 1" = 20'	Vertical N/A
Designed	KDM	KDM
Drawn	KDM	KDM
Checked	CMV	CMV
Approved	DKB	DKB
Date	12/11/24	

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Kent, WA 98032
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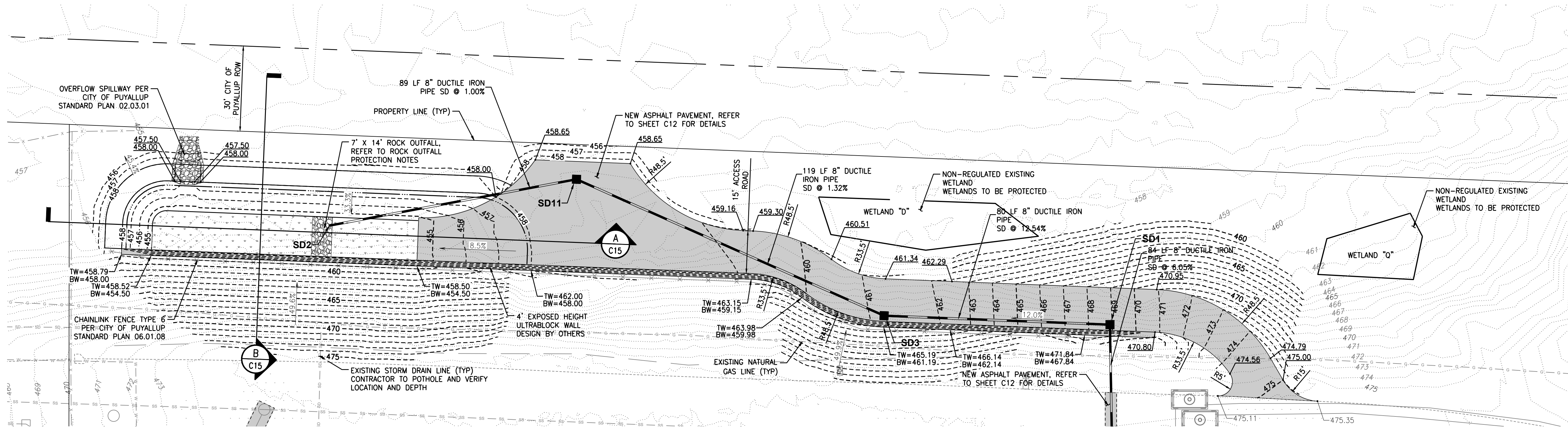


Job Number	18111	Sheet	C-14	22
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Title: SOUTH GRADING & DRAINAGE PLAN			
CENTERIS VOLTAGE PARK			
9	12/3/24	KDM	CMV
8	10/25/24	KDM	CMV
No.	Date	By	Appr.
Revision			
CITY COMMENTS ON SOUTH YARD			
SOUTH UTILITY YARD AND NORTH FOND REVISIONS			

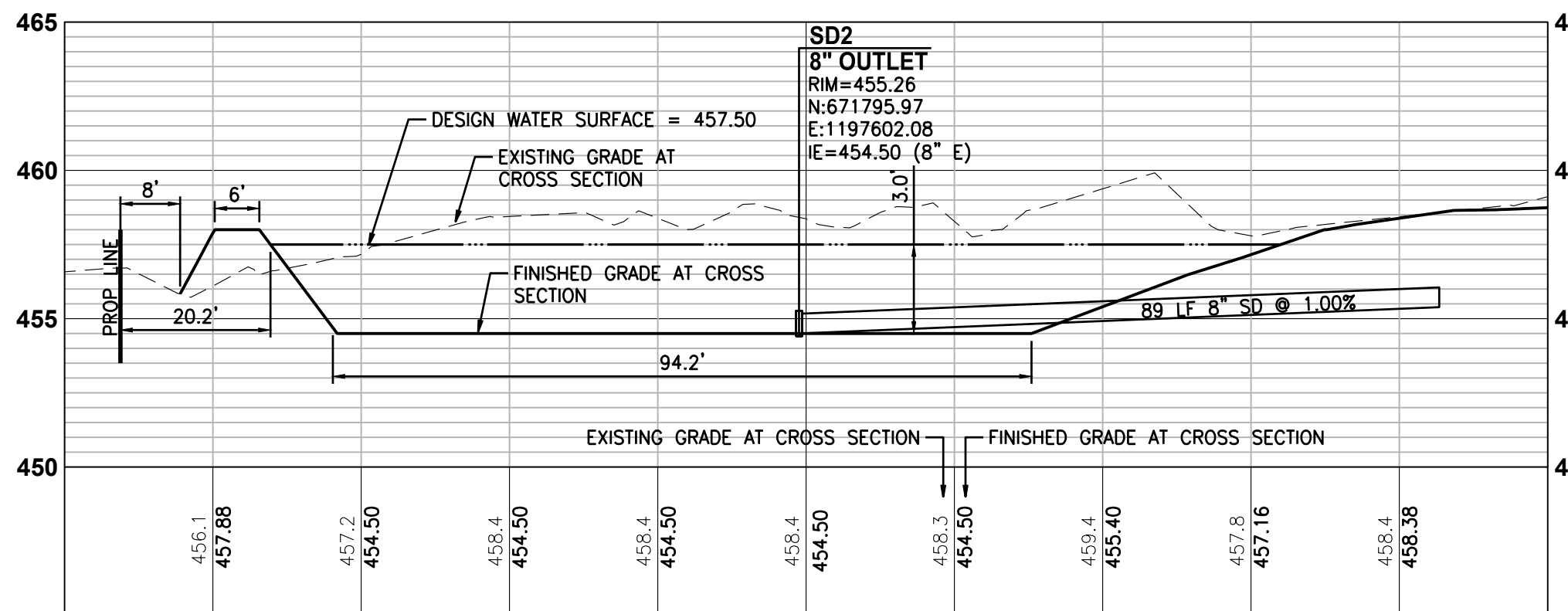
NORTH UTILITY YARD INFILTRATION POND
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



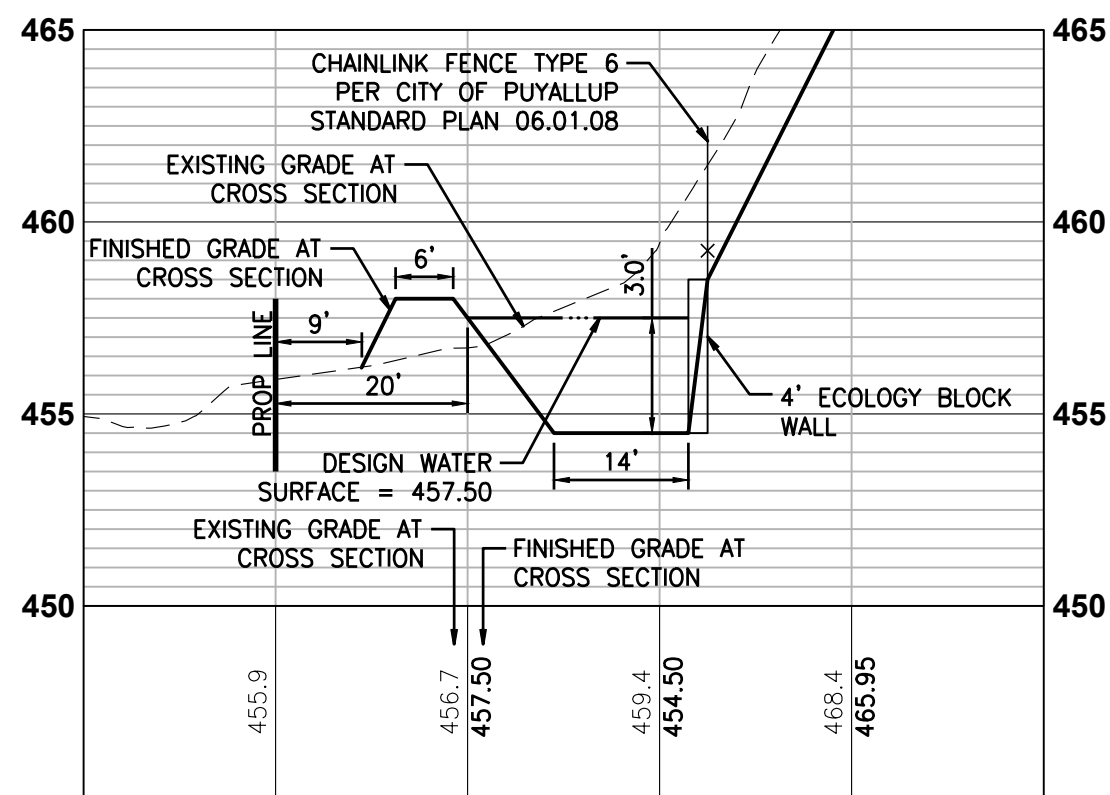
VOLTAGE PARK - NORTH UTILITY YARD POND

SCALE: 1" = 20'



INFILTRATION POND LENGTH CROSS SECTION

SCALE: HORIZONTAL: 1" = 20' VERTICAL 1" = 5'



INFILTRATION POND WIDTH CROSS SECTION

SCALE: HORIZONTAL: 1" = 20' VERTICAL 1" = 5'

POND INFORMATION

- | | |
|------------------------------------|-------------------|
| 1. POND BOTTOM AREA: | 1,305 SQUARE FEET |
| 2. POND BOTTOM ELEVATION: | 454.50 FEET |
| 3. DESIGN WATER SURFACE AREA: | 3,135 SQUARE FEET |
| 4. DESIGN WATER SURFACE ELEVATION: | 457.50 FEET |
| 5. REQUIRED POND VOLUME: | 5,924 CUBIC FEET |
| 6. PROVIDED POND VOLUME: | 6,660 CUBIC FEET |

ROCK PROTECTION AT OUTFALLS

RIPRAP SHALL BE REASONABLY WELL GRADED WITH GRADATION AS FOLLOWS:
MAXIMUM STONE SIZE - 24" (NOMINAL DIAMETER)
MEDIAN STONE SIZE - 16"
MINIMUM STONE SIZE - 4"

RIP RAP MINIMUM DIMENSIONS:
THICKNESS - 2'
WIDTH - DIAMETER + 6' OR 3 X PIPE DIAMETER, WHICHEVER IS GREATER
LENGTH - 12' OR 4 X PIPE DIAMETER, WHICHEVER IS GREATER
HEIGHT - CROWN + 1'

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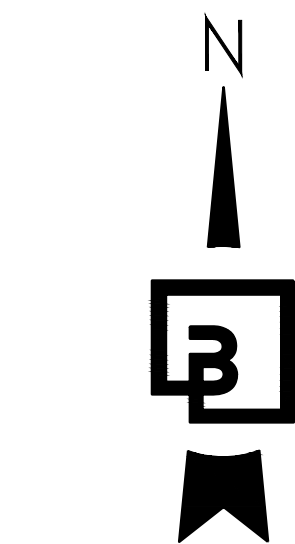
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STORM STRUCTURES
SD1 CB TYPE 1 - 24" SOLID COVER N: 671761.09 E: 1197877.01 RIM=468.91 IE=466.93 (8" S) IE=466.93 (8" W)
SD2 8" OUTLET N: 671795.97 E: 1197602.08 RIM=455.26 IE=454.50 (8" E)
SD3 CB TYPE 1 - 24" SOLID COVER N: 671764.23 E: 1197797.45 RIM=461.21 IE=456.95 (8" E) IE=456.95 (8" NW)

STORM STRUCTURES
SD11 CB TYPE 1L - 24" SOLID COVER 8" SPILL CONTROL TEE N: 671812.29 E: 1197689.11 RIM=458.58 IE=455.39 (8" SE) IE=455.39 (8" W)



PCR 001
PRCCP20240183

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CITY COMMENTS ON SOUTH YARD		SOUTH UTILITY YARD AND NORTH POND REVISIONS	
No.	Date	By	Appr.
9	12/3/24	KDM	CMV
8	10/25/24	KDM	CMV

Title:
NORTH UTILITY YARD INFILTRATION POND

**CENTERIS
VOLTAGE PARK**

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

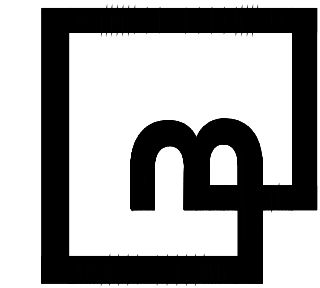


12/4/24

Scale:
Horizontal
1" = 20'
Vertical
1" = 5'

Designed	Drawn	Checked	Approved	Date
KDM	KDM	CMV	DKB	12/4/24

**Barghausen
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18215 72nd Avenue South
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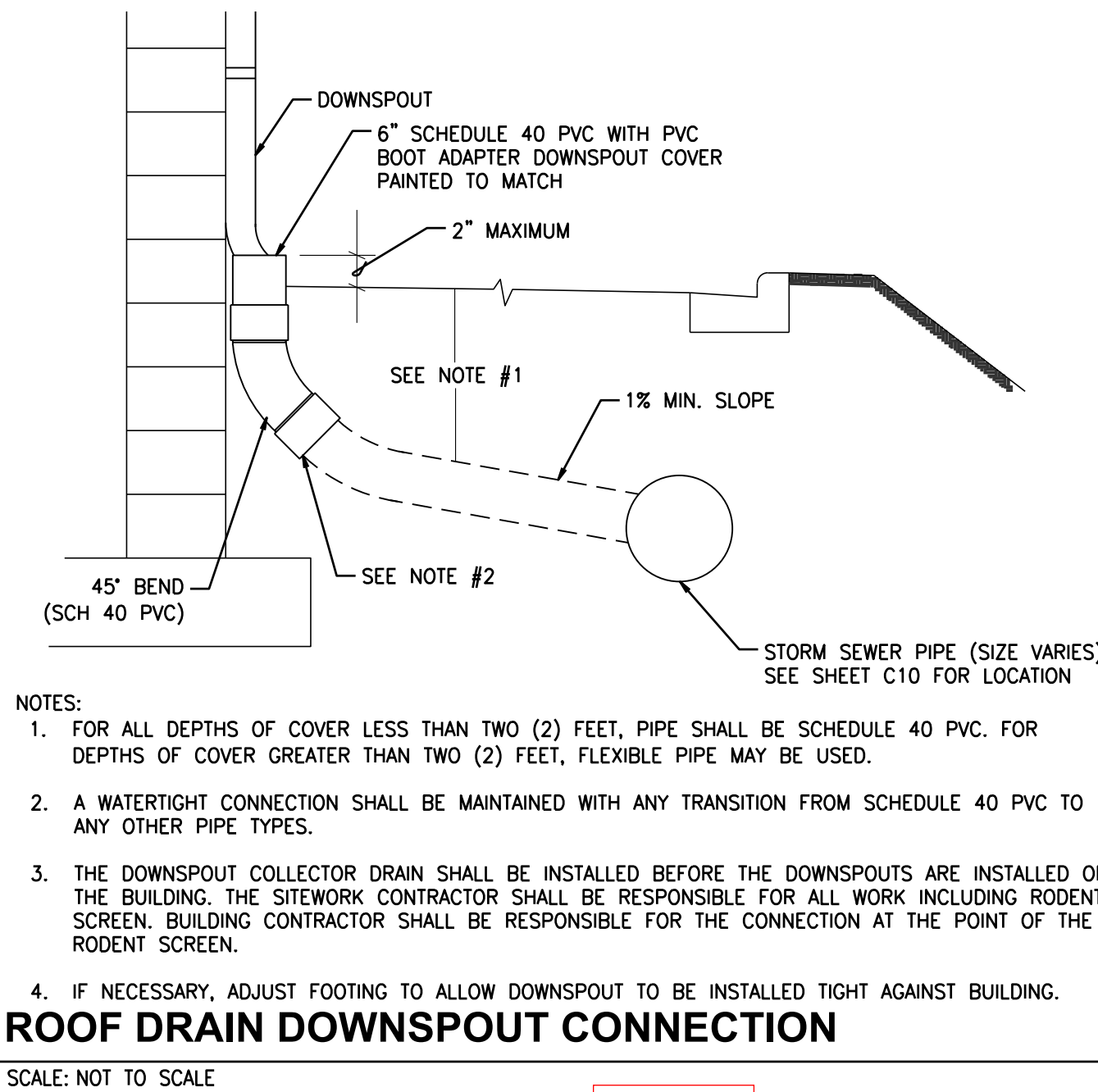
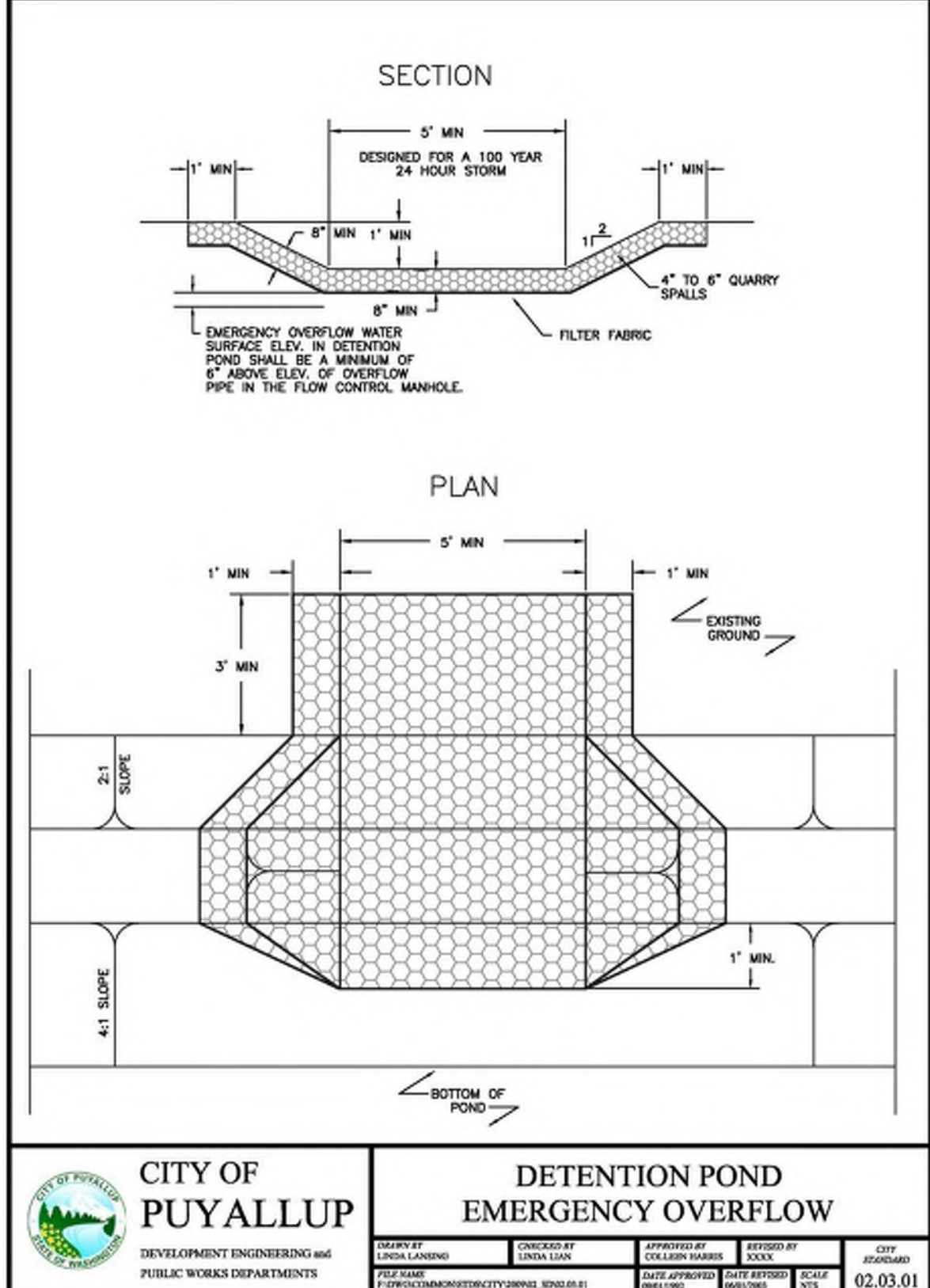
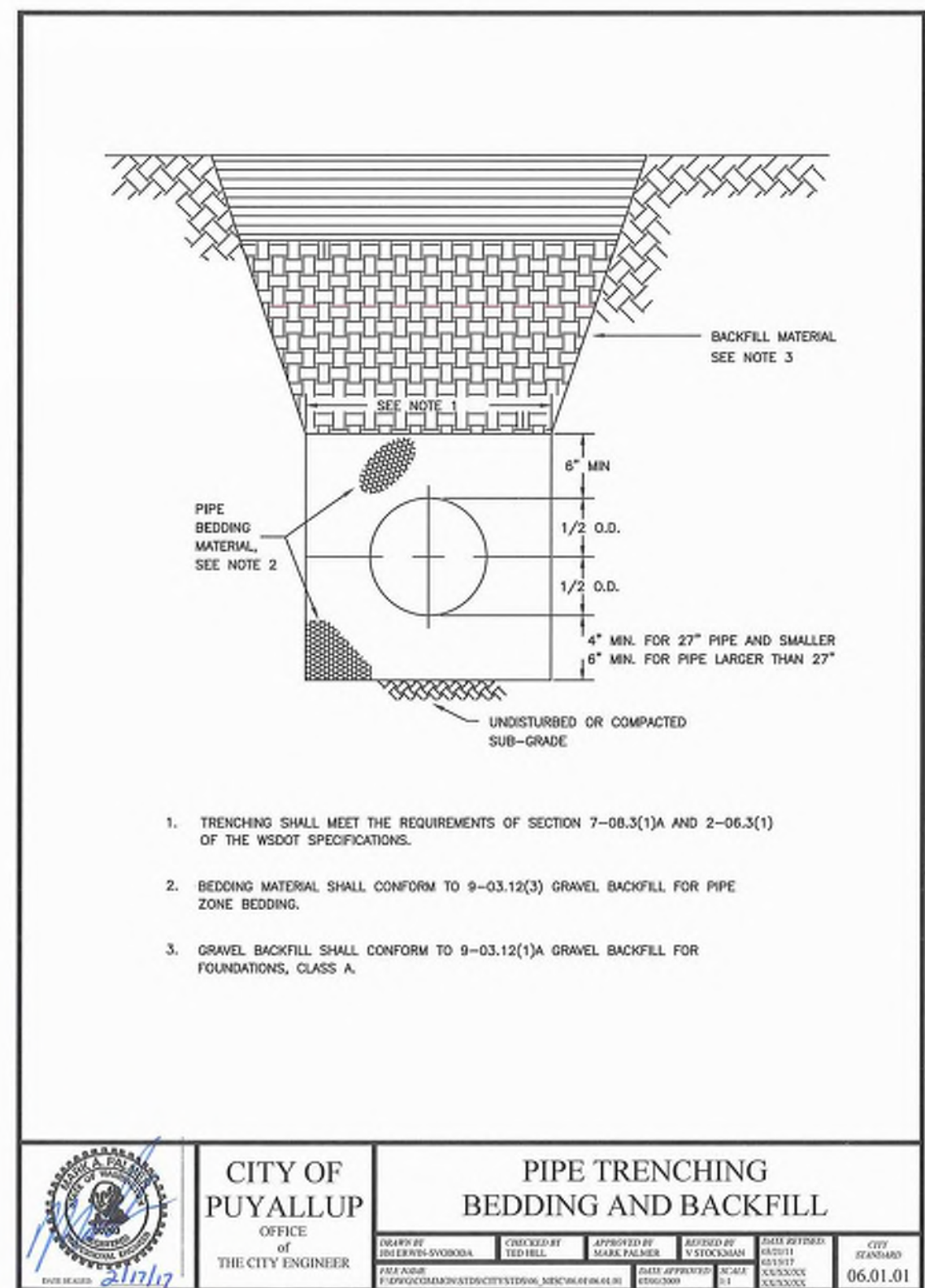
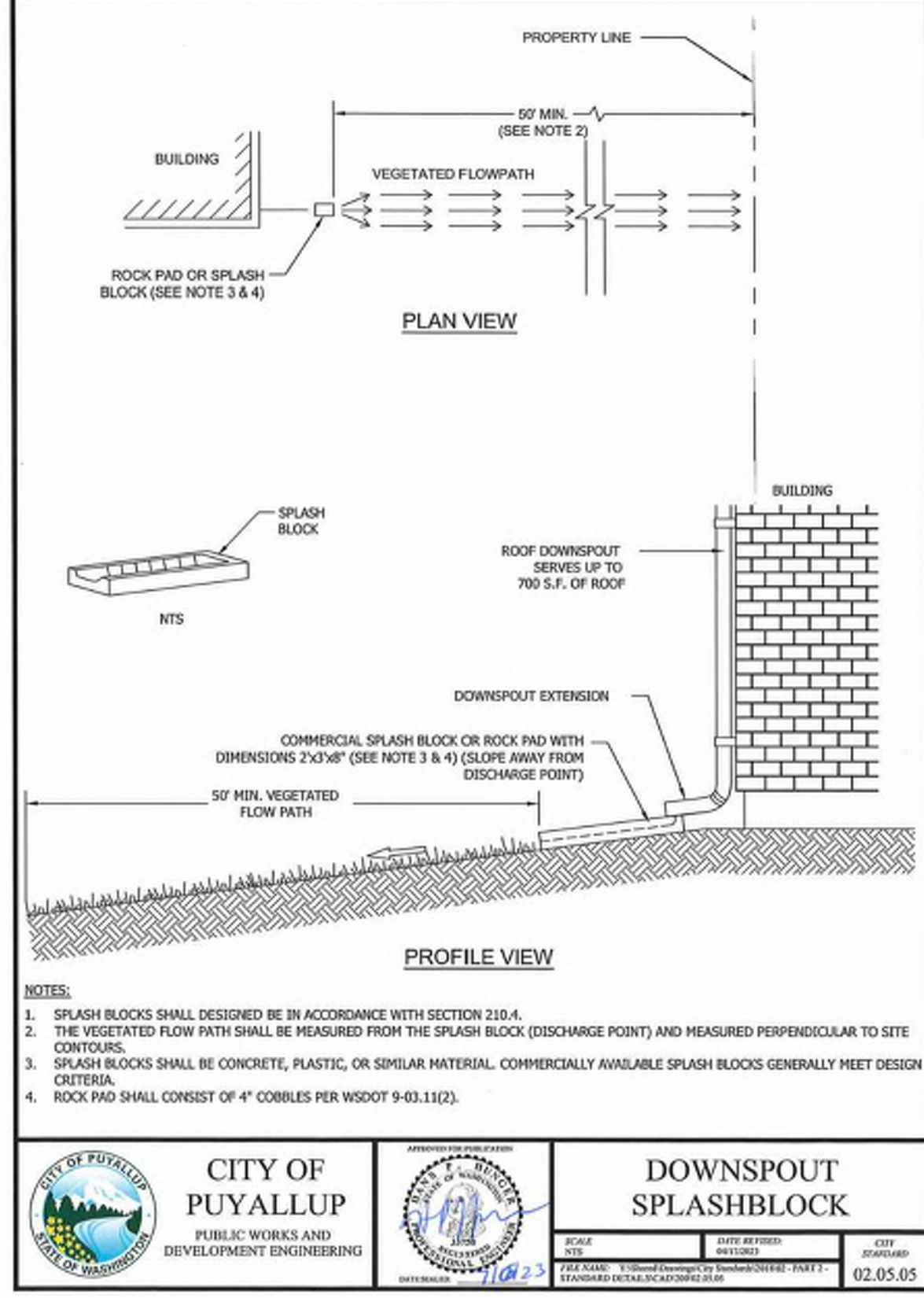
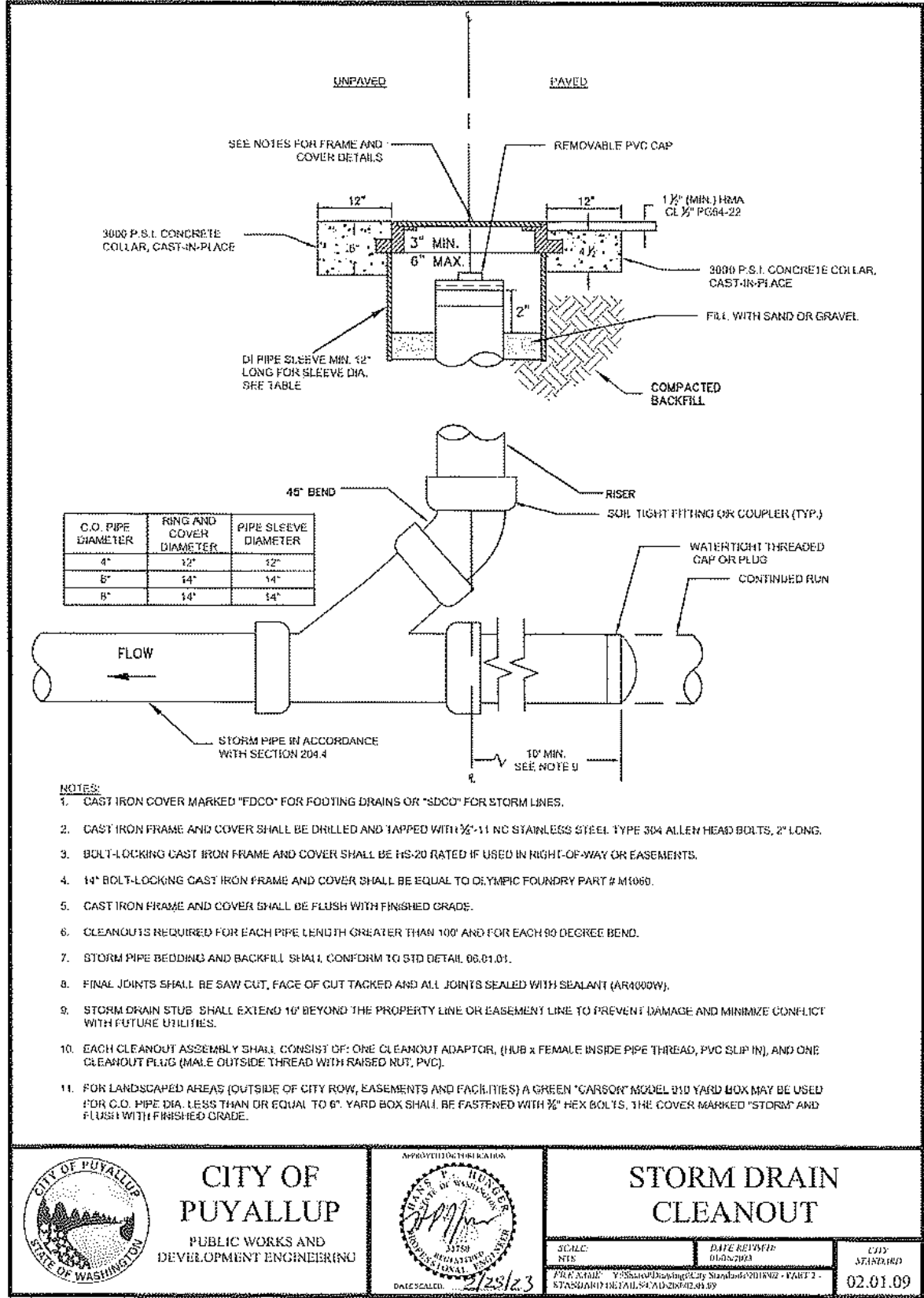
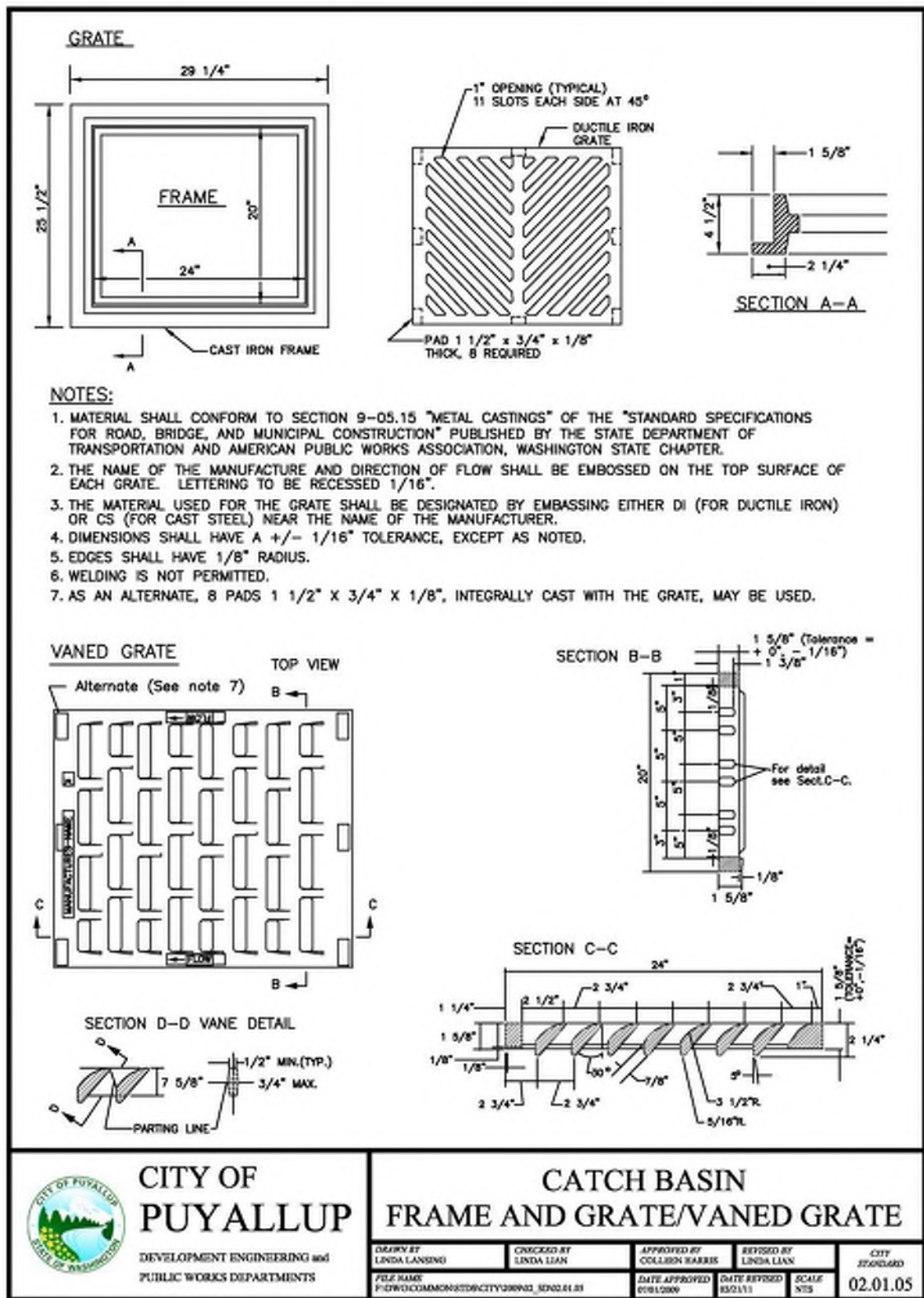
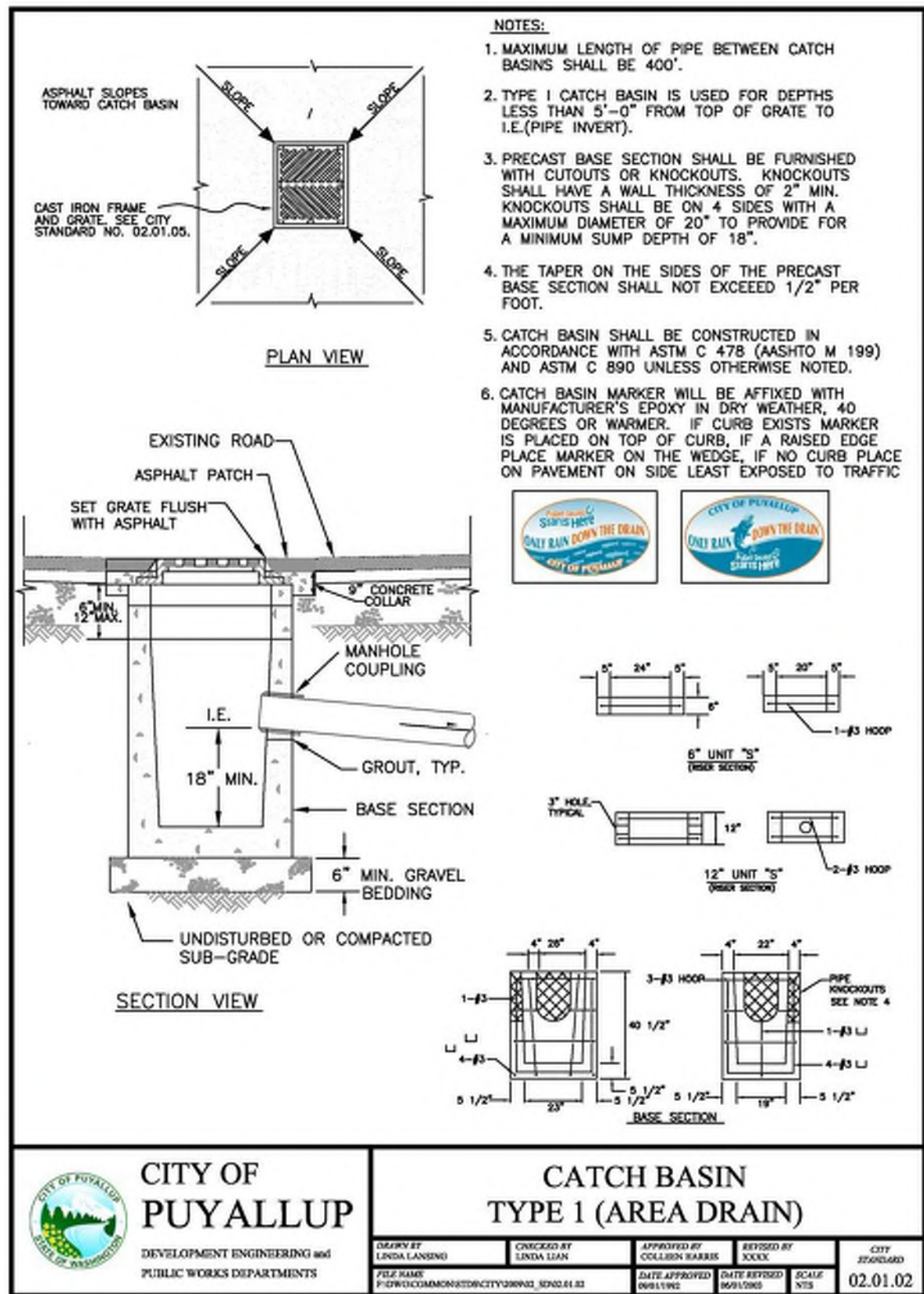


Job Number
18111
Sheet
C15 of **22**

GRADING & DRAINAGE DETAILS
FOR

CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

CITY COMMENTS ON SOUTH YARD		CITY COMMENTS ON NORTH YARD	
9	12/3/24	CMV	CMV
8	10/25/24	KDM	CMV
No.	Date	By	Appr.

Title: GRADING & DRAINAGE DETAILS

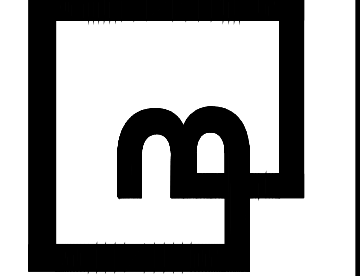
CENTERIS VOLTAGE PARK

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



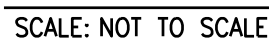
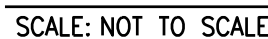
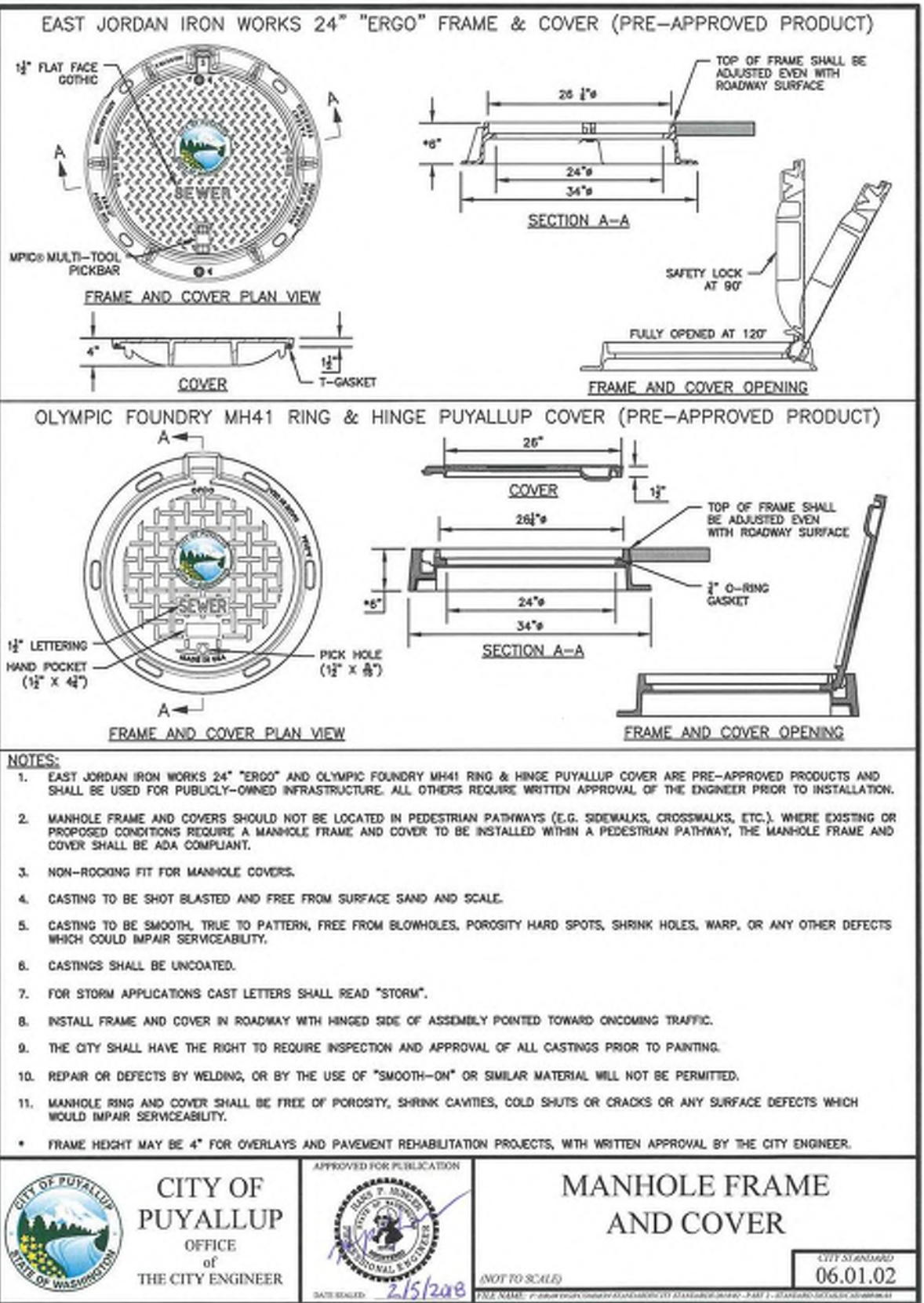
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Designed	<u>KDM</u>			
Drawn	<u>KDM</u>			
Checked	<u>CMV</u>			
Approved	<u>DKB</u>			
Date	<u>12/4/24</u>			

Barghausen Consulting Engineers, LLC.
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Job Number	18111	Sheet	C16 of 22
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A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY LOCATIONS TO PHYSICALLY VERIFY THE LOCATION OF THE EXISTING UTILITIES. LOCATIONS OF SAID UTILITIES ARE SHOWN ON THESE PLANS BASED UPON THE INVERTED PUBLIC RECORDS OF THE CITY OF BIRMINGHAM. IF ANY DISCREPANCY OR CONFLICT SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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

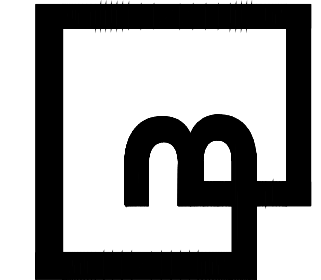
CENTERIS VOLTAGE PARK

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



Scale:	
Horizontal	N/A
Vertical	N/A
Designed	KDM
Drawn	KDM
Checked	CMW
Approved	DKB
Date	12/4/24

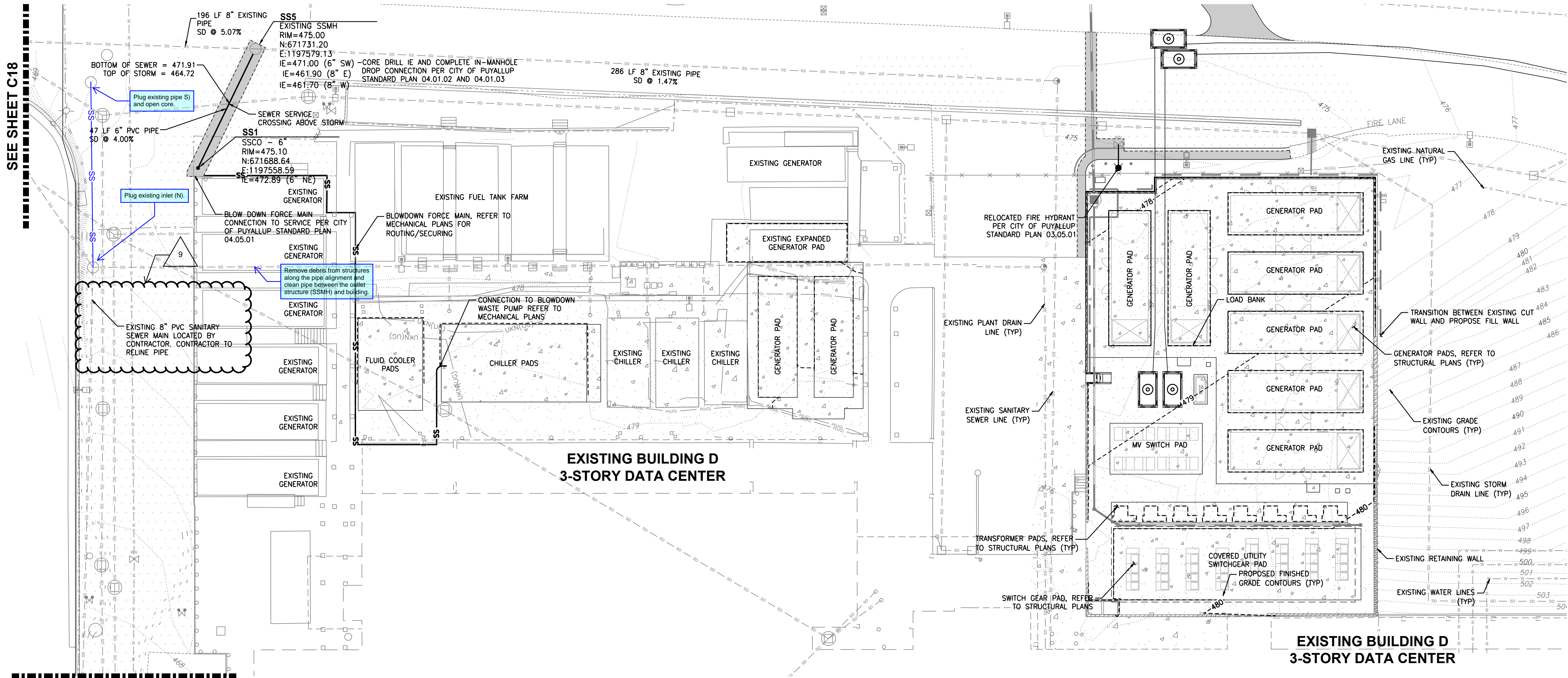
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Job Number
18111
Sheet
C17 of 25

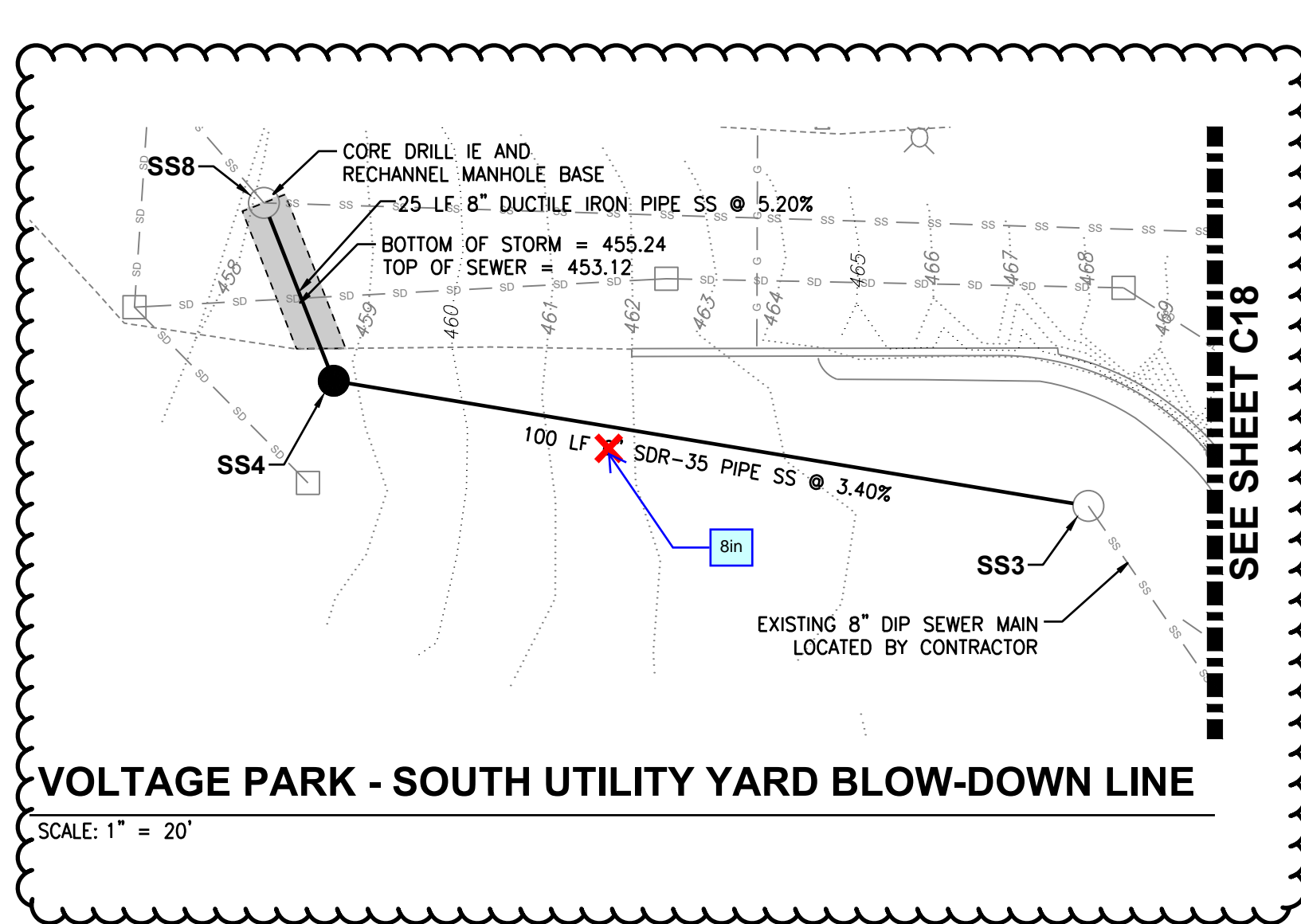
NORTH UTILITY PLAN
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



SEE SHEET C20
VOLTAGE PARK - NORTH UTILITY YARD

SCALE: 1" = 20'

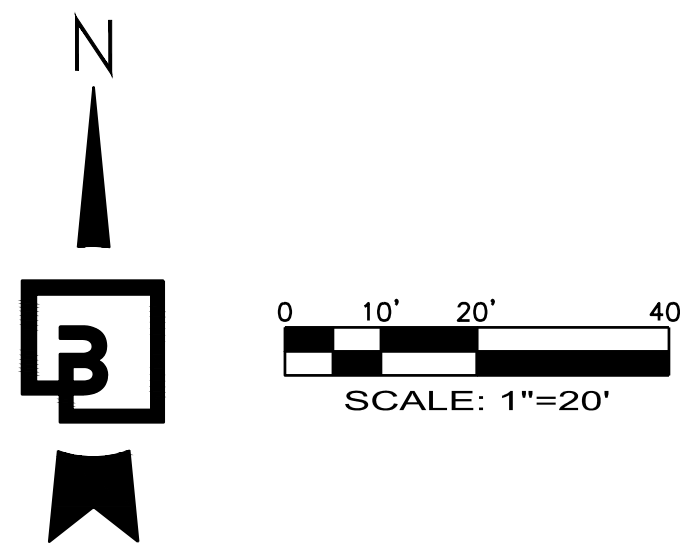


VOLTAGE PARK - SOUTH UTILITY YARD BLOW-DOWN LINE

SCALE: 1" = 20'

SANITARY SEWER STRUCTURE	
SS3	EXISTING SSMH N: 671697.58 E: 1197490.62 RIM=463.50 IE=456.65 (8" IN SE) EXISTING - CONTRACTOR VERIFIED IE=456.55 (8" OUT W)
SS4	SSMH - 48" N: 671713.94 E: 1197391.97 RIM=458.85 IE=453.15 (8" IN E) IE=453.05 (6" OUT N)
SS8	EXISTING SSMH N: 671737.21 E: 1197382.82 RIM=458.24 IE=451.75 (8" IN S) IE=451.75 (8" IN E) EXISTING IE=451.55 (8" OUT NW) EXISTING

8in
(Per CVisintainer
email dated 12-18-24)



CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

PCR 001
PRCCP20240183

APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Title:

For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

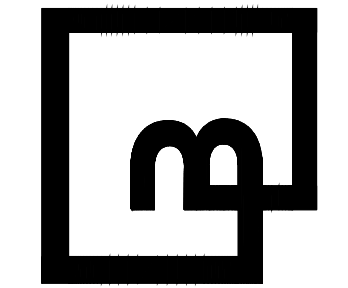


12/4/24

Scale:
Horizontal
1" = 20'
Vertical
N/A

Designed	KDM	KDM	KDM	KDM
Drawn				
Checked	CMV	CMV	DKB	
Approved				
Date	12/4/24			

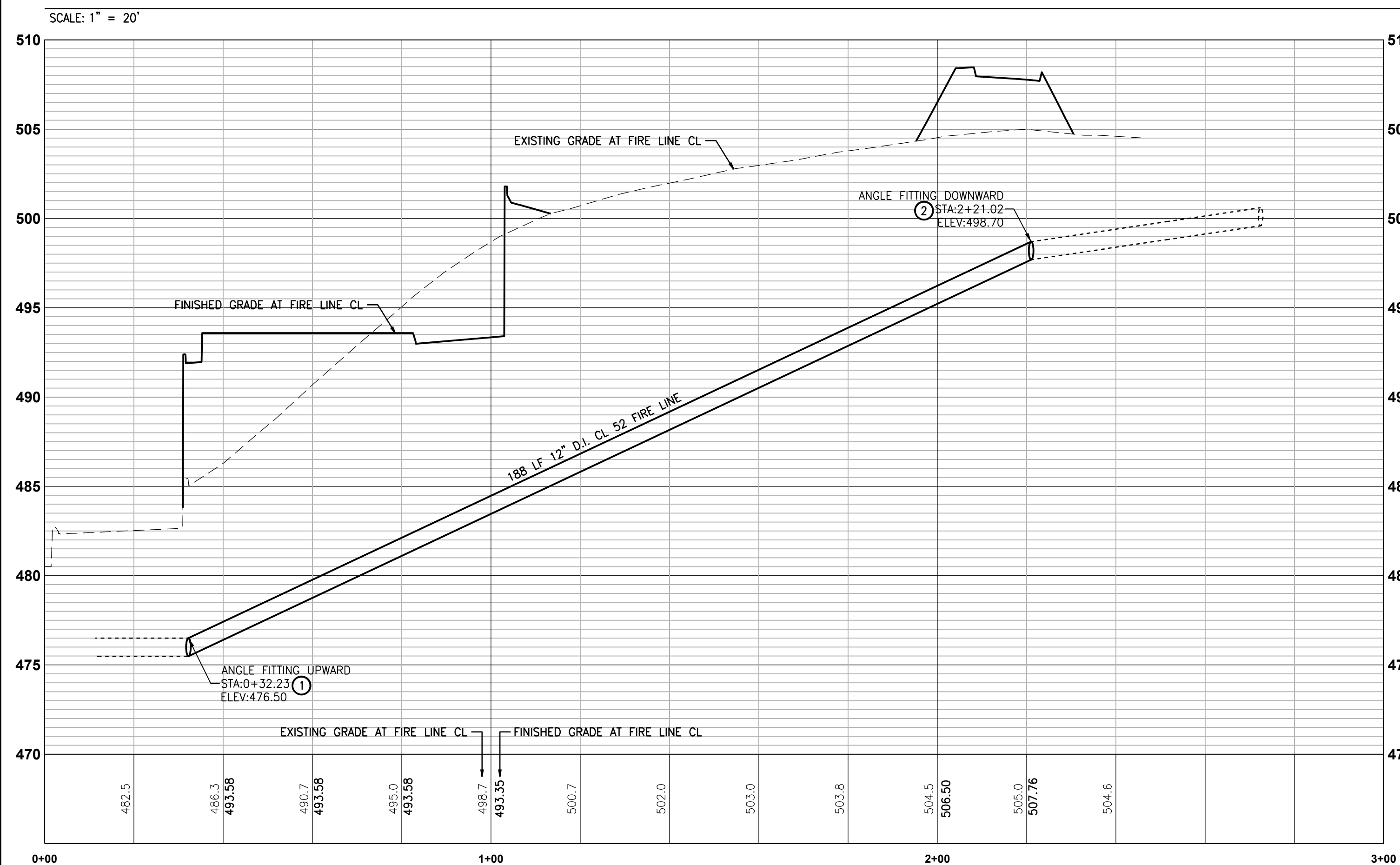
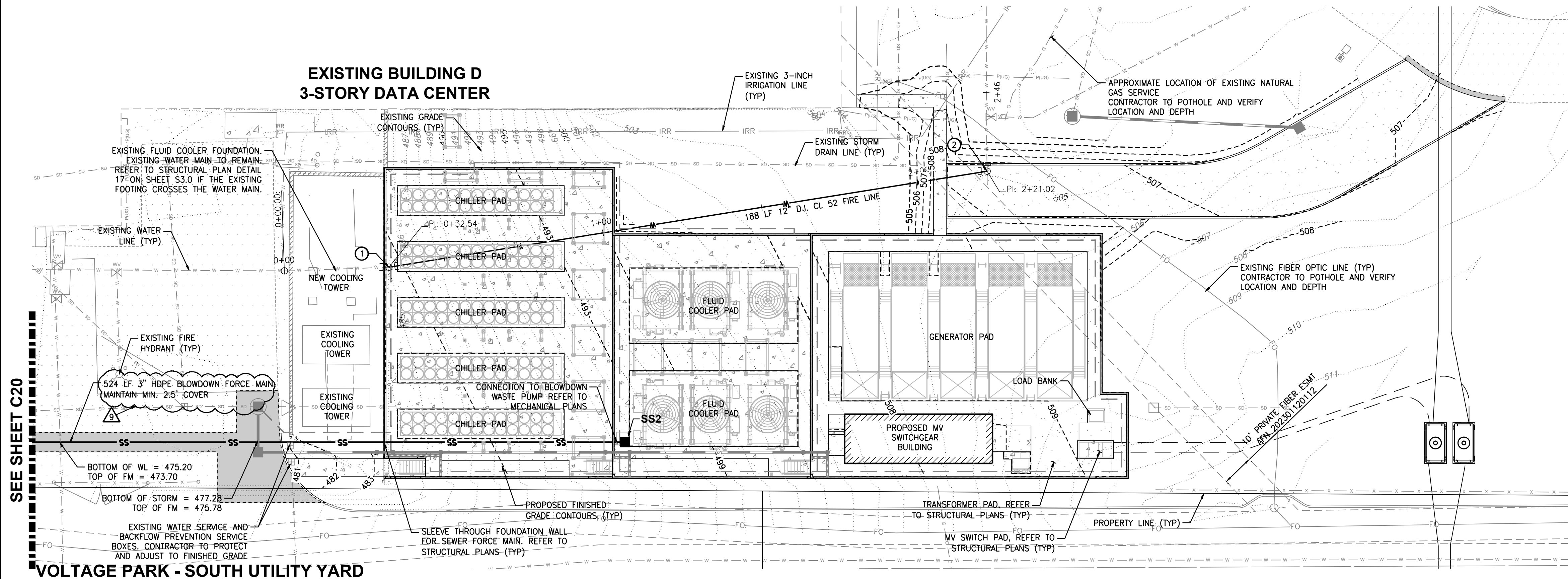
Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com



Job Number	18111	Sheet	C18	22
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SOUTH UTILITY PLAN FOR

SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



WATER FITTING KEYNOTES

CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND
HORIZONTAL LOCATION OF EXISTING 12" FIRE LINE.
CONNECTION TO EXISTING
N: 671280.55
E: 1197929.80
1-12" 11.25' BEND (MJ X MJ)
THRUST BLOCK PER COP STANDARD DETAIL 03.02.01
NOTIFY ENGINEER OF ANY DISCREPANCIES

CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND
HORIZONTAL LOCATION OF EXISTING 12" FIRE LINE.
CONNECTION TO EXISTING
N: 671310.47
E: 1198115.86
1-12" 90° BEND (MJ X MJ)
THRUST BLOCK PER COP STANDARD DETAIL 03.02.01
NOTIFY ENGINEER OF ANY DISCREPANCIES

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE INFORMATION AVAILABLE TO THE CONTRACTOR AND THE CONTRACTOR SHALL ACCEPT THAT CONFLICTS SHOULD OCCUR. THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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

**CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"**

PCR 001
PRCCP20240183

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____

Job Number
18111

Sheet
C19 of 22

**Barghausen
Consulting Engineers, LLC.**
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**

Designed	<u>KDM</u>	Scale: Horizontal 1" = 20' Vertical 1" = 5'
Drawn	<u>KDM</u>	
Checked	<u>CMV</u>	
Approved	<u>DKB</u>	
Date	12/11/24	



For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

Title:

SOUTH UTILITY PLAN

CENTERIS

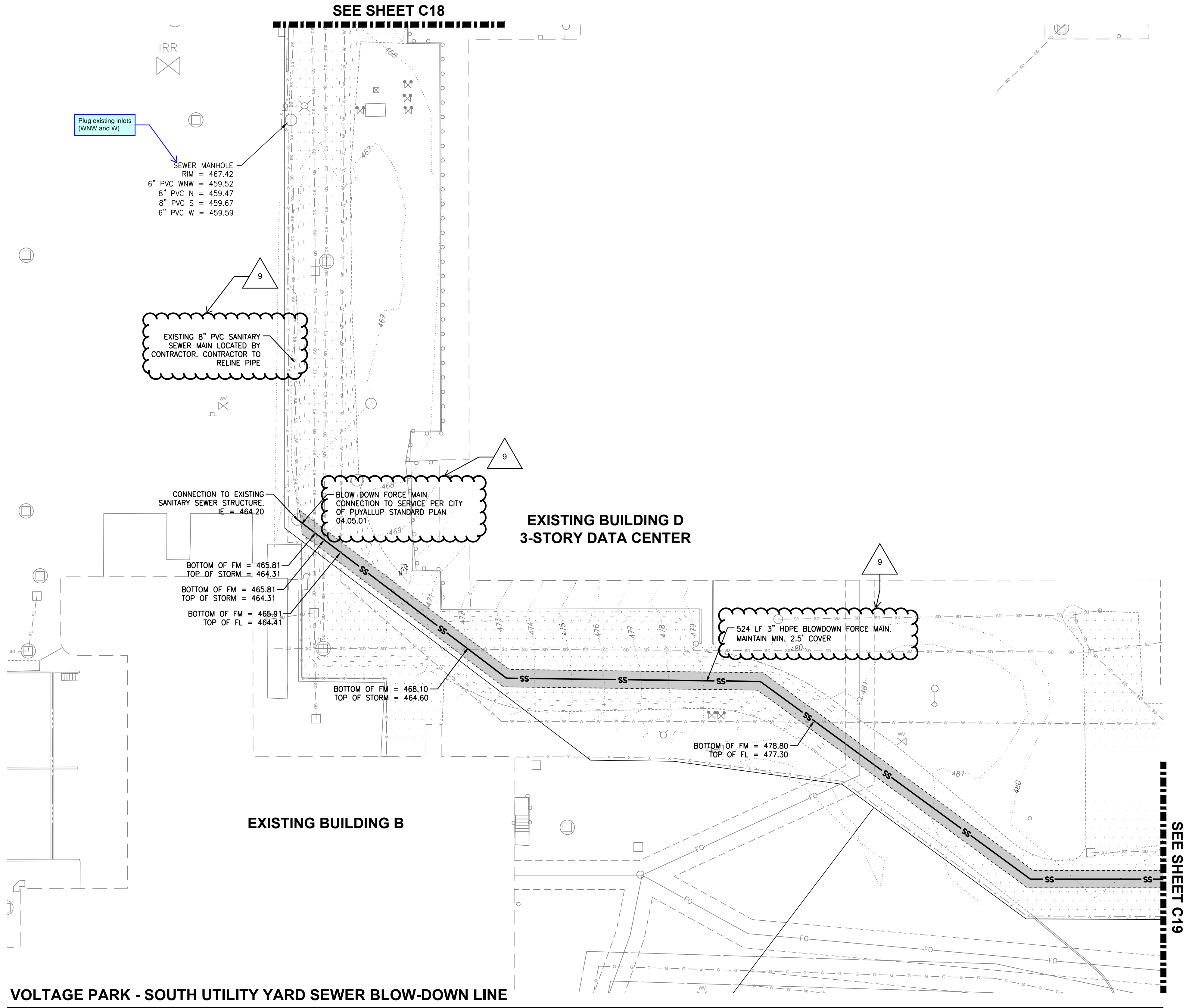
VOLTAGE PARK

		CITY COMMENTS ON SOUTH YARD	
		SOUTH UTILITY YARD AND NORTH POND REVISIONS	
No.	Date	By	Appr.
9	12/3/24	KDM	CMW
8	10/25/24	KDM	CMW

SOUTH UTILITY YARD SEWER BLOW-DOWN PLAN
FOR

CENTERIS VOLTAGE PARK

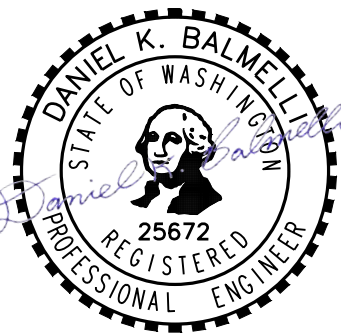
A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



CITY COMMENTS ON SOUTH YARD			
No.	Date	By	Appr.
9	12/3/24	KDM	CMV
8	10/25/24	KDM	CMV

SOUTH UTILITY YARD
SEWER BLOW-DOWN PLAN
CENTERIS
VOLTAGE PARK

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



Scale: Horizontal 1" = 20' Vertical N/A

Designed	Drawn	Checked	Approved	Date
KDM	KDM	CMV	DKB	12/4/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
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PCR 001
PRCCP20240183

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

UTILITY CONFLICT NOTE:

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Job Number
18111

Sheet
C20 of 22

UTILITY DETAILS
FOR

CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

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

45° BEND (COLUMN C)
90° BEND (COLUMN B)
DEAD END (COLUMN A)
OFFSET (COLUMNS B TO I)
THRU LINE CONNECTION, TEE (COLUMN A)
DIRECTION CHANGE, TEE USED AS ELBOW (COLUMN B)
THRU LINE CONNECTION, TEE (COLUMN C)
WYE (COLUMN C)
UNBALANCED CROSS (COLUMN A)
PLUGGED CROSS (COLUMN A)
DIRECTION CHANGE, CROSS USED AS TEE (COLUMN B)

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

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
APPROVED FOR PUBLICATION
DATE: 2/15/2019
NOT TO SCALE
CITY STANDARD 03.02.01-1

WATER VALVE DETAIL
NOT TO SCALE

NOTES:
1. WATER MAIN SHALL HAVE A MINIMUM COVER OF 36" FROM FINISHED GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
2. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED FOR VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRADE.
3. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
4. VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE WATSON #140 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN AUTOMATIC FIREWORKS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) FIREWORKS MODEL 8555 WITH LOCKING VALVE BOX COVER MODEL 8500 (PART# 068002250) OR APPROVED EQUAL.
5. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
6. WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
A. DUCTILE IRON PIPE SHALL CONFORM TO ANSIC C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE WATSON #140 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN AUTOMATIC FIREWORKS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) FIREWORKS MODEL 8555 WITH LOCKING VALVE BOX COVER MODEL 8500 (PART# 068002250) OR APPROVED EQUAL.
B. JOINTS SHALL BE TYTON HIGH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER ANSIC C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
C. BOLTS AND NUTS FOR FLANGED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 194, GRADE B8M FOR BOLTS, AND ASTM A 194, GRADE B8 FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE IIS.
D. BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 183, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.
E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ANSIC C 110 AND ANSIC C 111.
G. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.
1) RESILIENT SEATED WEDGE GATE VALVES SHALL CONFORM TO THE LATEST ANSIC SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-REISING STEEL, WITH TWO (2) INCH SQUARE NUT, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED DISK (D) VALVES OR FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
2) BUTTERFLY VALVES, BUTTERFLY VALVES CONFORMING WITH ANSIC C 504, CLASS 150 AND SHALL HAVE STANDARD ANSIC TWO (2) INCH SQUARE NUT.
7. DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.16.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
APPROVED FOR PUBLICATION
DATE: 2/15/2019
NOT TO SCALE
CITY STANDARD 03.01.01

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	9,895	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	7,860	3,850
12"	200	28,275	39,885	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

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

NOTES:
1. TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI:
 $39,885 \times \frac{300}{200} = 59,828$ LBS
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):
SEE TABLE 3, BEARING VALUE OF SOIL.
EXAMPLE:
FOR SAND AND GRAVEL, BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF
 $59,828 \text{ LBS} \div 3,000 \text{ LBS/SF} = 20 \text{ SF OF AREA}$
3. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE
4. AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
5. NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUS OR CAP.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
APPROVED FOR PUBLICATION
DATE: 2/15/2019
NOT TO SCALE
CITY STANDARD 03.02.01-3

VERTICAL THRUST BLOCKING

NOTES:
1. A LENGTH OF 3/8" (MINIMUM - SEE TABLE BELOW) GALVANIZED CHAIN WRAPPED TIGHTLY TWO TIMES AROUND FITTING WITH A #4 BAR PLACED THROUGH THE CHAIN ENDS EMBEDDED INTO THE CONCRETE THRUST BLOCKING.
2. RESTRAINED JOINTS SHALL BE INSTALLED WITH ALL VERTICAL THRUST BLOCKING.

11-1/4" TO 45° BEND

11-1/4" TO 45° BEND

TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIAMETER (INCHES)	TEST PRESSURE (PSI)	BEND ANGLE (DEG)	CONCRETE VOLUME (CY)	CURE SIZE (FEET)	CHAIN SIZE (INCHES)	CHAIN EMBEDMENT (INCHES)
4"	200	11.25°	6	1.8	3/8"	17"
		22.5°	12	2.3		
		45°	22	2.8		
6"	200	11.25°	14	2.4	3/8"	17"
		22.5°	27	3.0		
		45°	50	3.7		
8"	200	11.25°	25	2.9	3/8"	17"
		22.5°	48	3.8		
		45°	89	4.5		
10"	200	11.25°	38	3.4	3/8"	17"
		22.5°	75	4.2		
		45°	139	5.2		
12"	200	11.25°	55	3.8	3/8"	17"
		22.5°	108	4.8		
		45°	200	5.8		
14"	200	11.25°	75	4.2	3/8"	17"
		22.5°	147	5.3		
		45°	272	6.5		
16"	200	11.25°	98	4.6	3/8"	17"
		22.5°	192	5.8		
		45°	355	7.1		

ALL NOTES ON CITY STANDARD 03.02.01-1 SHALL APPLY TO THIS DETAIL.
SEE CITY STANDARD 03.02.01-3 FOR ADDITIONAL INFORMATION.

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CITY STANDARD 03.02.01-2

FIRE HYDRANT ASSEMBLY

NOTES:
1. ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
2. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
3. THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, RUST-OLEUM SAFETY YELLOW #7543 (TWO COATS) OR AN APPROVED EQUAL. THE STORZ FITTING SHALL NOT BE PAINTED.
4. FIRE HYDRANTS SHALL HAVE TWO 2-1/2" HOSE PORTS (NATIONAL STANDARD THREAD) WITH CAPS AND CHAINS AND ONE 4" PUMPER PORT (OR TACOMA STEAMER PORT THREAD) WITH A 5" STORZ COUPLING AND BLIND CAP INSTALLED ON THE STEAMER PORT. (STEAMER PORT SHALL FACE THE STREET). 1-1/4" PENTAGONAL OPERATING NUT (COUNTER-CLOCKWISE OPENING), O-RING TYPE STUFFING BOX, AUTOMATIC BARREL DRAIN AND 1-1/4" MAIN VALVE OPERATING. HYDRANTS SHALL BE DESIGNED IN A MANNER THAT WILL PREVENT BARREL BREAKAGE WHEN STRUCK BY A VEHICLE. HYDRANTS SHALL CONFORM TO THE LATEST REVISION OF ANSIC SPECIFICATIONS NO. C 502-73 FOR FIRE HYDRANTS FOR ORDINARY WATER SERVICE. FIRE HYDRANTS SHALL INCLUDE THE ENTIRE ASSEMBLY COMPLETE, INCLUDING HYDRANT, GATE VALVE AND BOX, CONNECTING PIPING, FITTINGS, AND ACCESSORIES.
5. FIRE HYDRANTS SHALL BE AWK, CLOW MEDALLION, M & H 1295, MUELLER CENTURION, OR WATERLOO.
6. GATE VALVES SHALL CONFORM TO THE LATEST ANSIC SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE-MOUNTED, NON-REISING STEEL, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT BY FLANGED. VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
7. THE HOLDING SPOOL SHALL BE A MECHANICAL-JOINT (M.J.) HOLDING SPOOL, WITH THE USE OF MECA-LUG CONNECTORS OR APPROVED EQUAL WITH CLASS 52 DUCTILE IRON PIPE.
8. IF DISTANCE BETWEEN WATER MAIN AND FIRE HYDRANT IS GREATER THAN 17 FEET, RESTRAINED JOINTS ARE REQUIRED ON ANY ADDITIONAL JOINTS. THE MAXIMUM 6-INCH HYDRANT RUN ALLOWED IS 20 FEET. ANY PROPOSED HYDRANT RUN EXCEEDING 20' IN LENGTH SHALL BE SIZED USING AN ENGINEERED HYDRAULIC FLOW MODEL. ANY HYDRANT RUN EXCEEDING 50 FEET IN LENGTH SHALL BE NO LESS THAN 8-INCHES IN DIAMETER.
9. FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A BUILDING OR STRUCTURE.
10. THE CONTRACTOR SHALL PLACE A 6 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA, ENDS TO OVERLAP.
11. A FLUORESCENT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.
12. A MINIMUM THREE FOOT (3') RADII UNOBSTRUCTED CLEAR ZONE (WORK AREA) SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. ADDITIONALLY, NO WOODY LANDSCAPE SHALL BE PLANTED WITHIN TEN FEET (10') OF ANY FIRE HYDRANT. OVERHANGING BRANCHES OF TREES ADJACENT TO HYDRANTS SHALL HAVE A MAINTAINED VERTICAL CLEARANCE OF SEVEN (7') FEET ABOVE FINISHED GRADE OF THE FIRE HYDRANT.

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PIPE TRENCHING BEDDING AND BACKFILL

NOTES:
1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

CITY OF PUYALLUP
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APPROVED FOR PUBLICATION
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NOT TO SCALE
CITY STANDARD 06.01.01

PCR 001
PRCCP20240183

CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"

APPROVED
BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

UTILITY CONFLICT NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POT-HOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

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

UTILITY DETAILS

CENTERIS
VOLTAGE PARK

For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

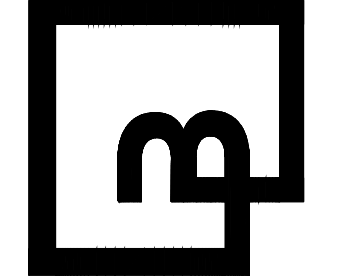


12/4/24

Scale:
Horizontal N/A
Vertical N/A

Designed KDM
Drawn KDM
Checked CMV
Approved DKB
Date 12/4/24

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



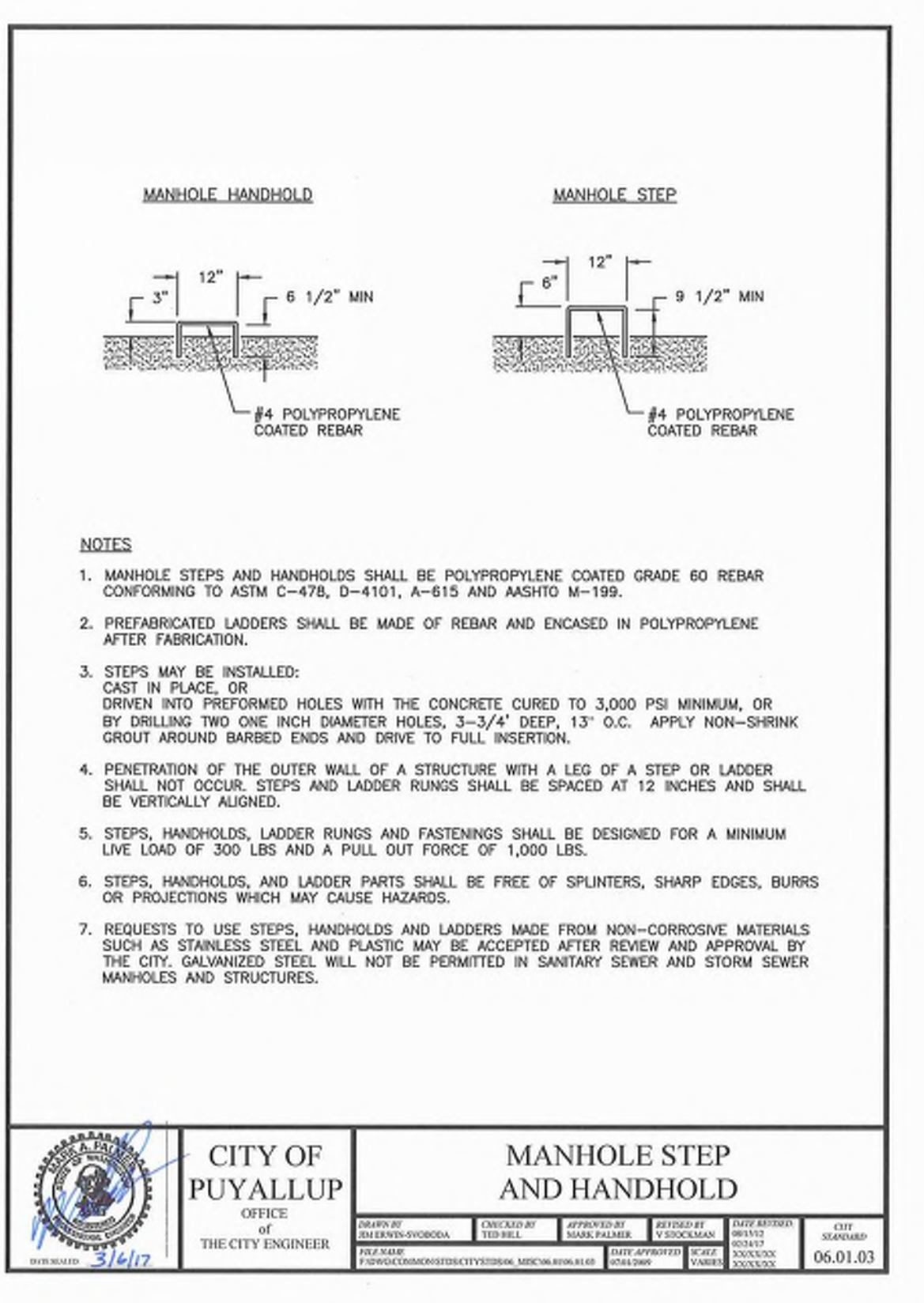
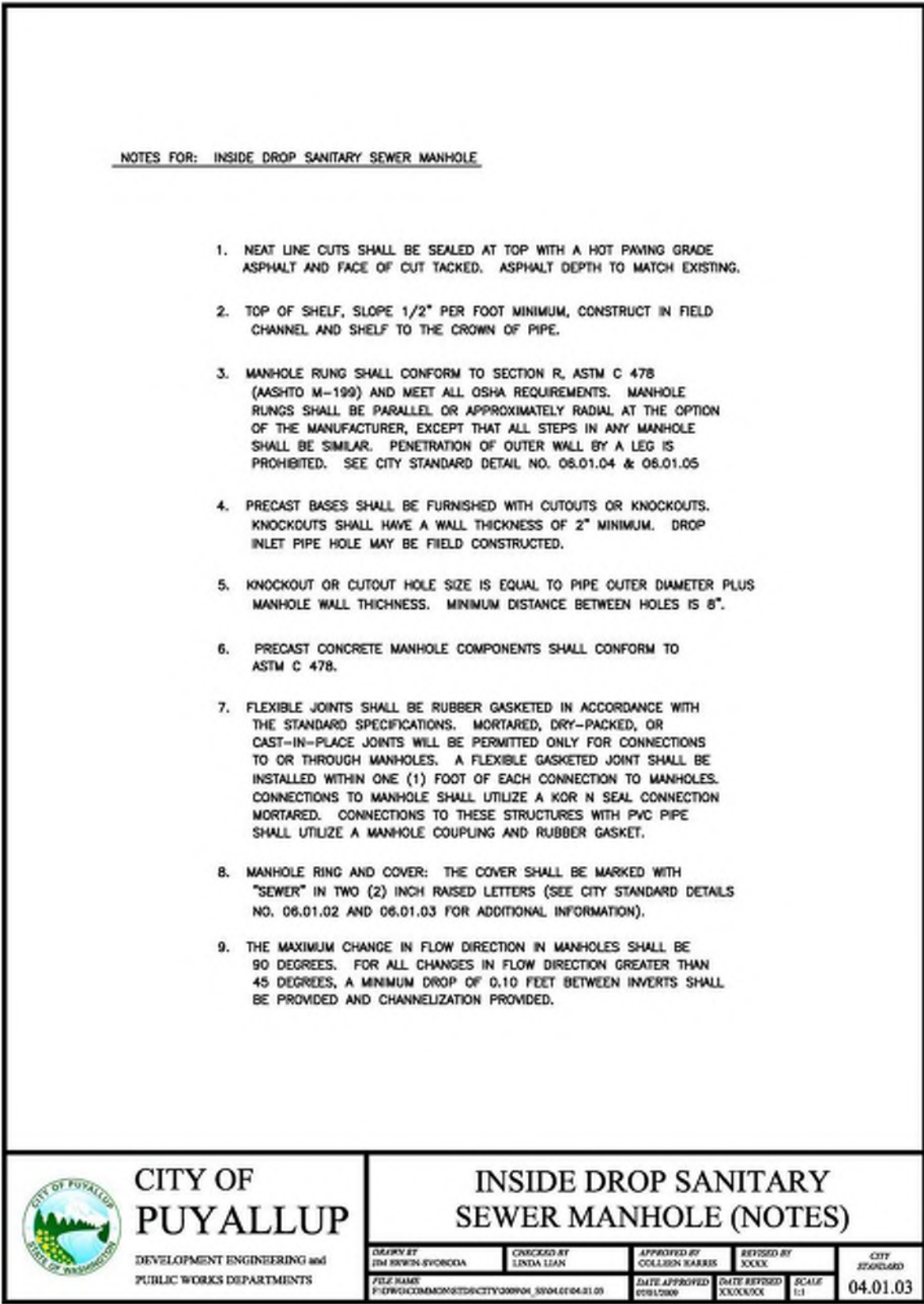
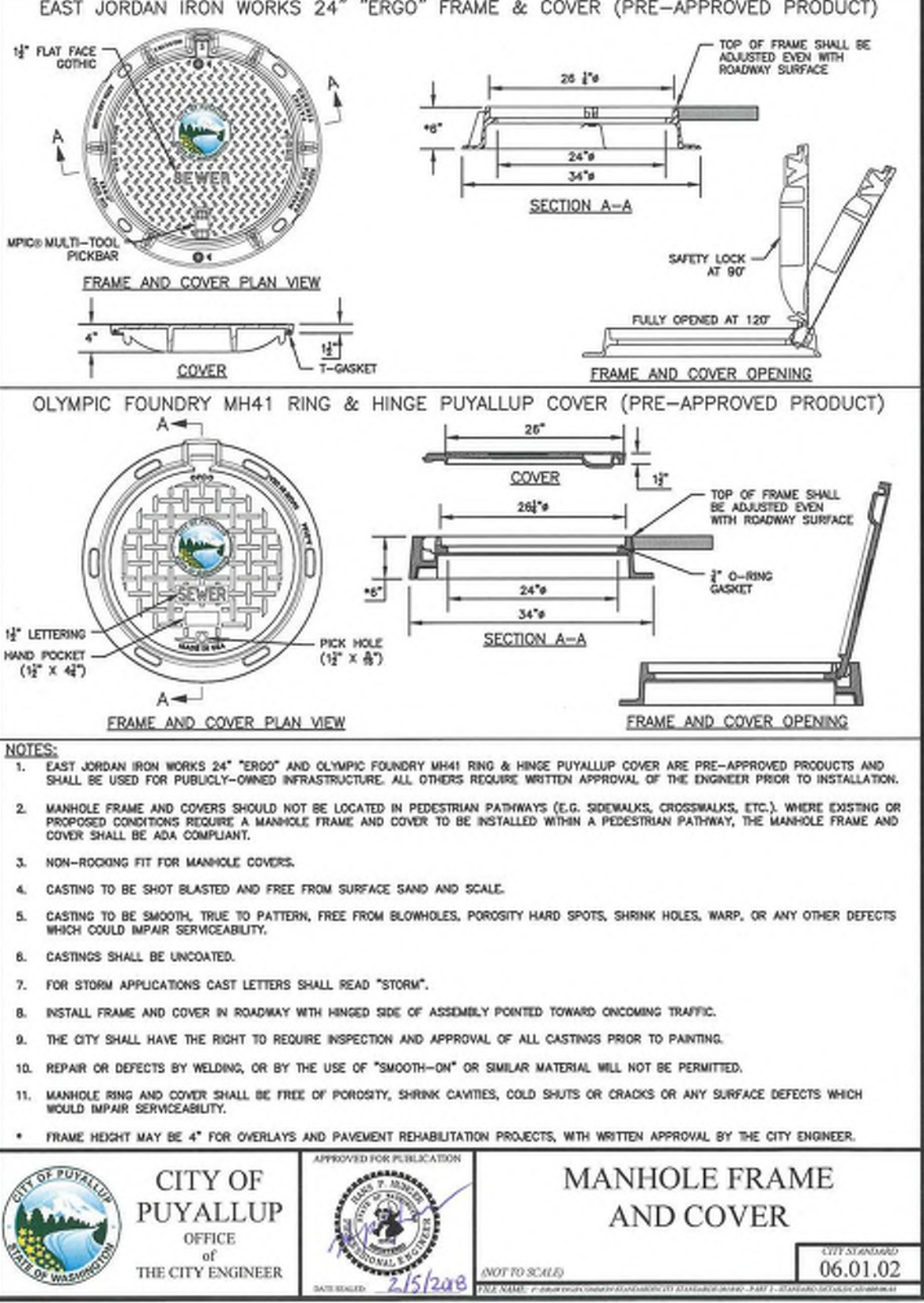
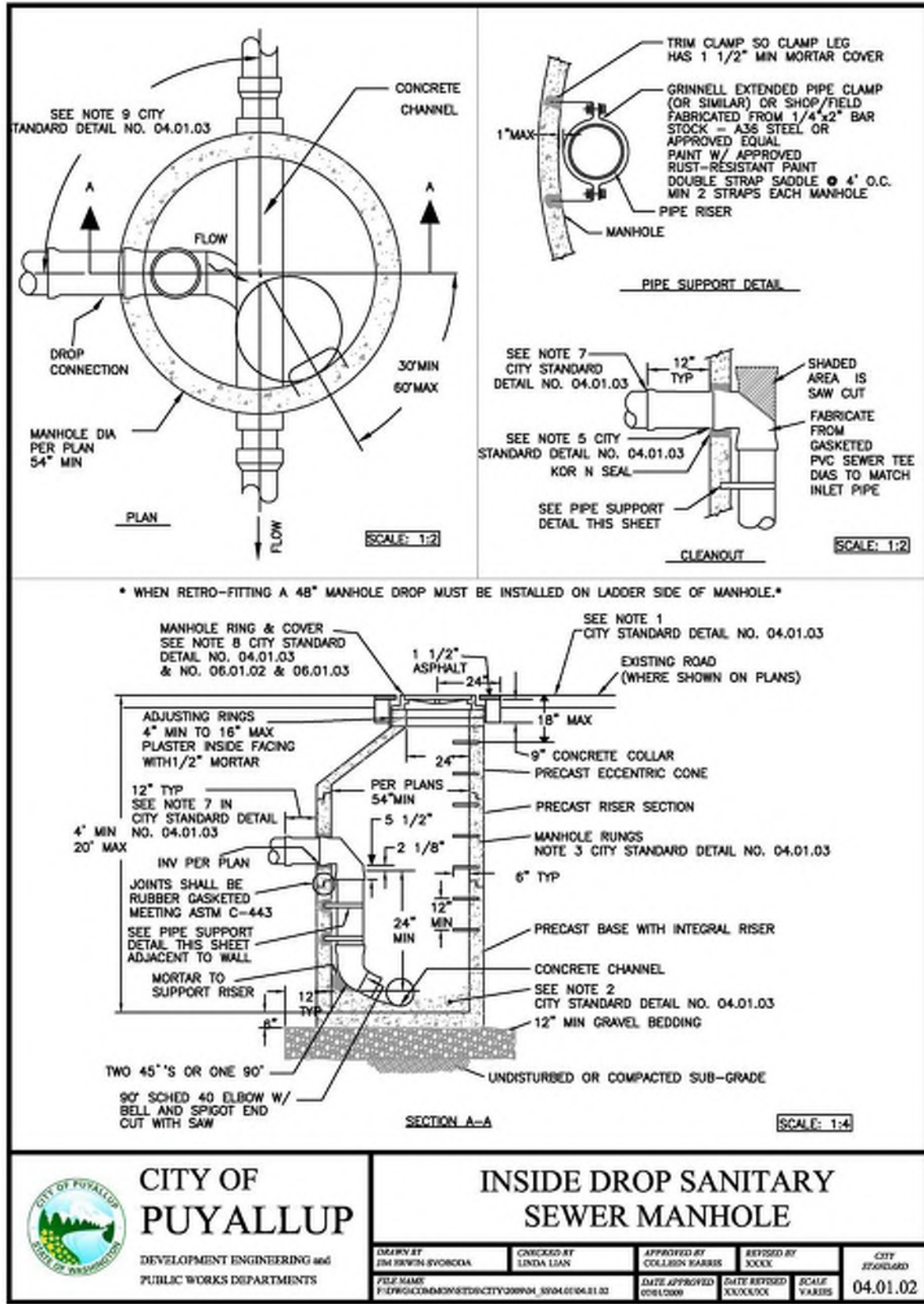
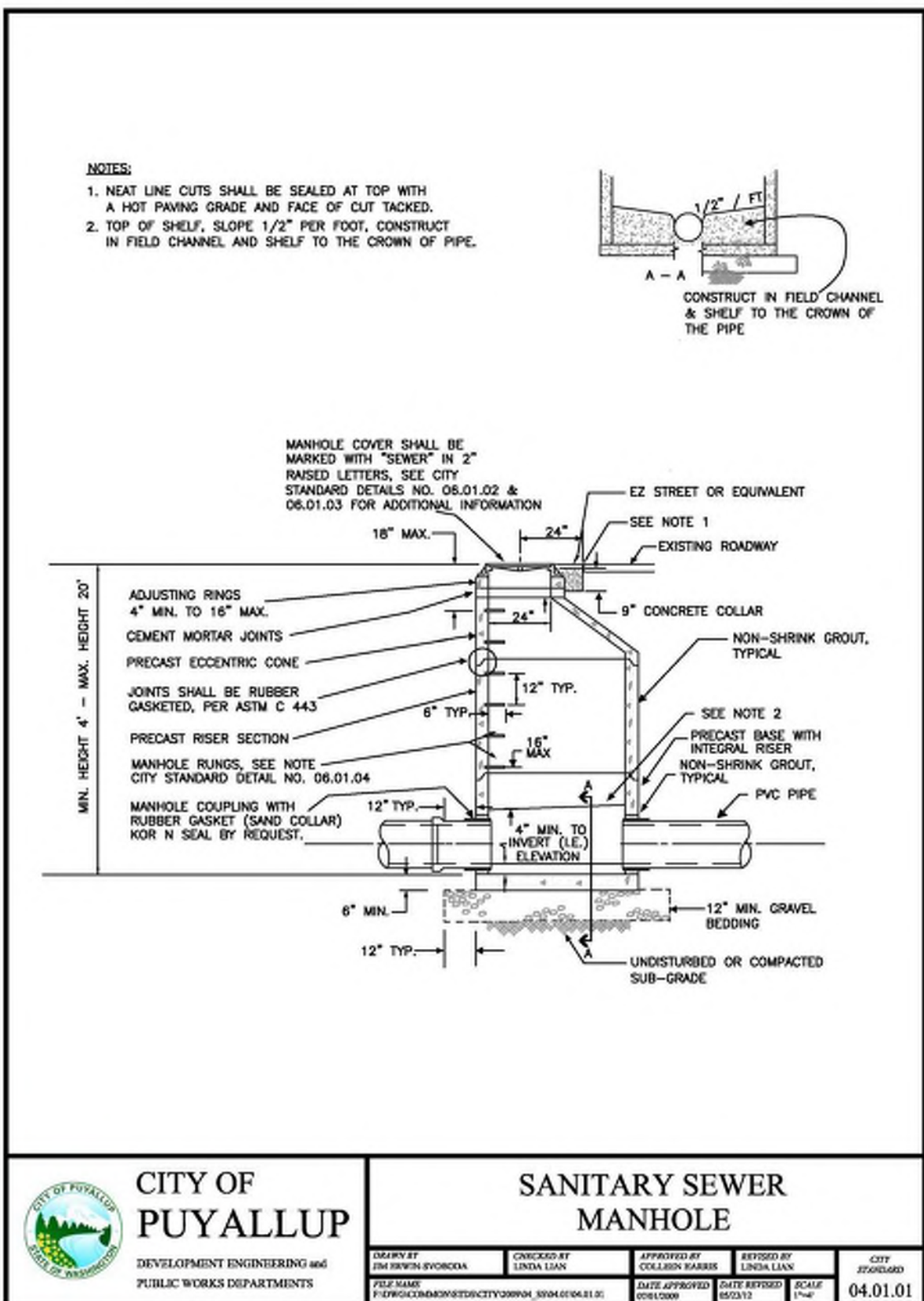
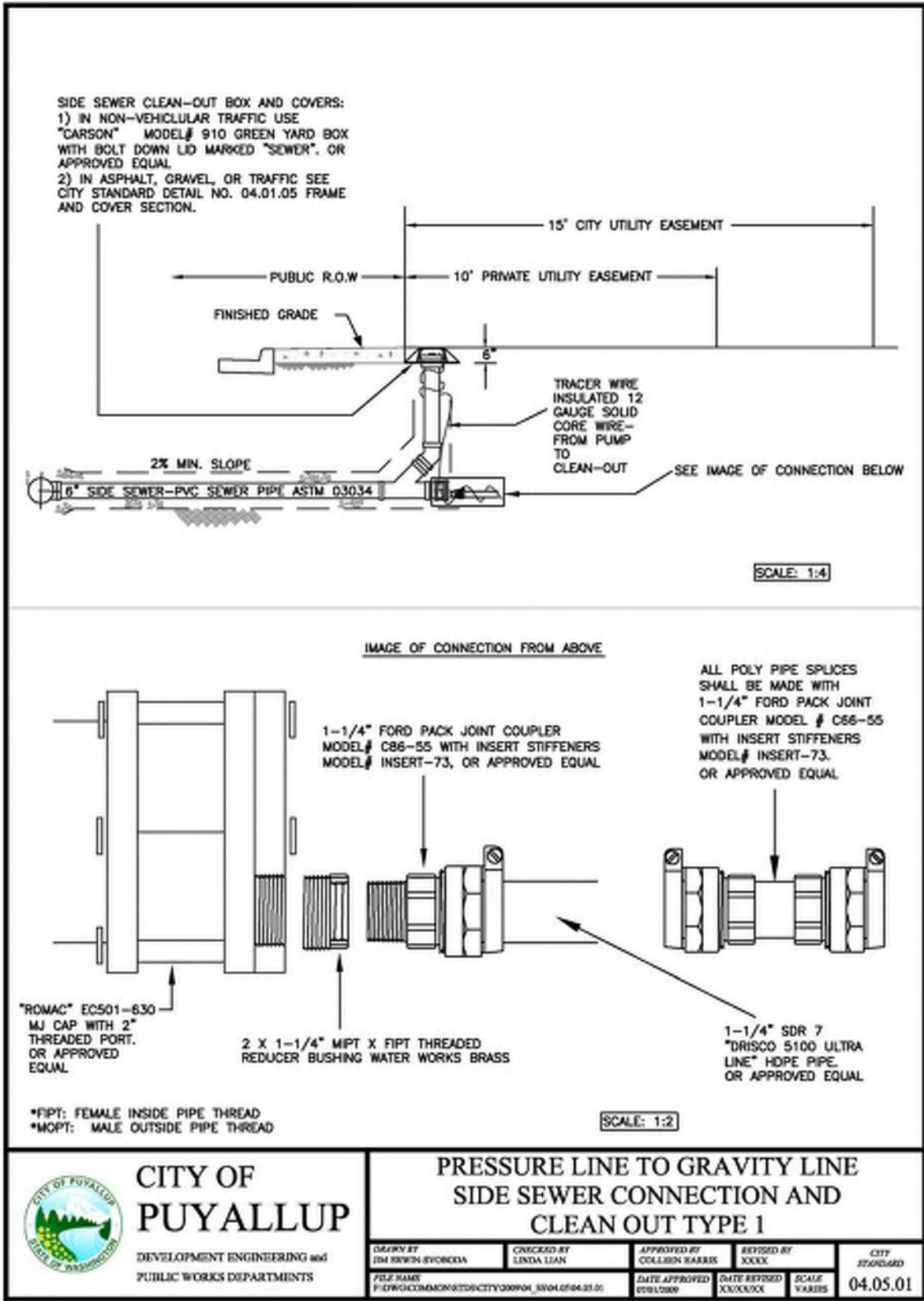
Job Number
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UTILITY DETAILS
FOR
CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3,TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



UTILITY CONFLICT NOTE:

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PCR 001
PRCCP20240183

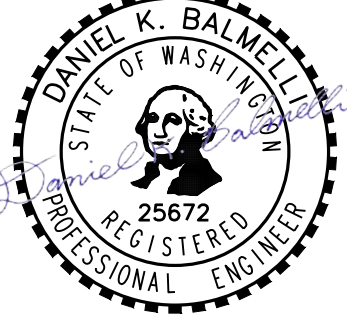
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BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

Job Number
18111

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C22 of 22

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Scale:
Horizontal N/A
Vertical N/A

Designed KDM
Drawn KDM
Checked CMV
Approved DKB
Date 12/4/24

Title:

For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

UTILITY DETAILS
CENTERIS VOLTAGE PARK

CITY COMMENTS ON SOUTH YARD		CITY COMMENTS ON NORTH POND REVISIONS	
CMV	CMV	CMV	CMV
12/3/24	10/25/24	12/3/24	10/25/24
No.	By	No.	By
Date		Date	
Appr.		Appr.	
Revision		Revision	