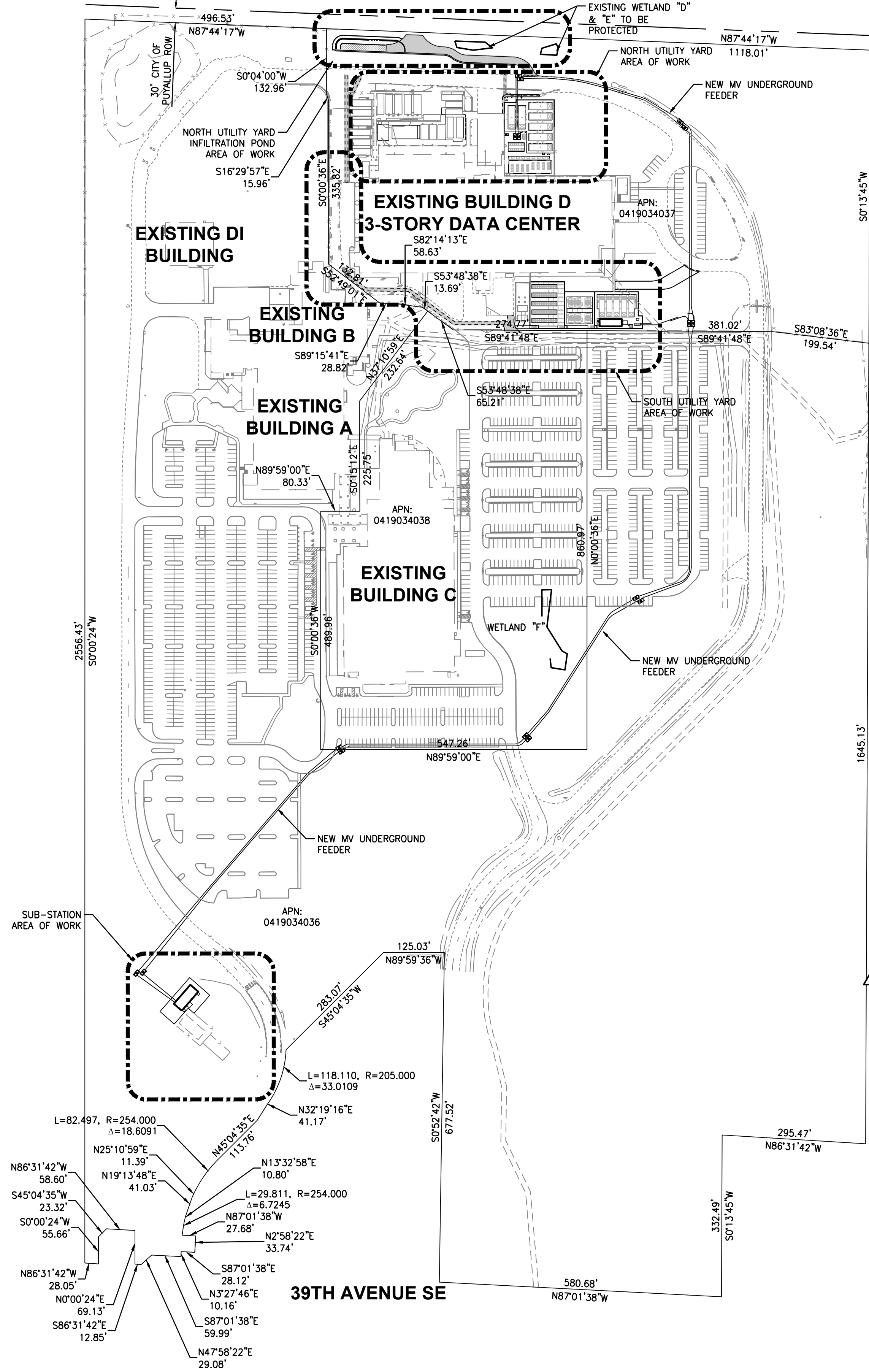


COVER SHEET
FOR

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

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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C14	OF 22	SOUTH GRADING & DRAINAGE PLAN
C15	OF 22	NORTH UTILITY YARD INFILTRATION POND
C16	OF 22	GRADING & DRAINAGE DETAILS
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C21	OF 22	UTILITY DETAILS
C22	OF 22	UTILITY DETAILS

**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

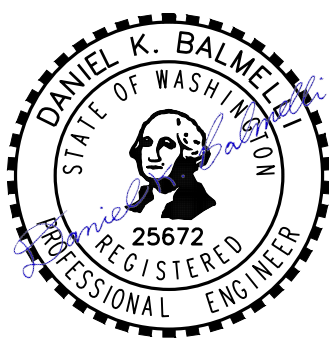
THE CONTRACTOR SHALL HAVE ALL PROPERTY LINES, CURB, SIDEWALK, STRUCTURES, CONCRETE PADS AND ANY OTHER ABOVE GROUND PERMANENT STRUCTURE DEPICTED ON THESE PLANS STAKED FOR CONSTRUCTION BY A LICENSED SURVEYOR. THE LICENSED SURVEYOR SHALL STAKE ALL ITEMS USING COORDINATE GEOMETRY (RECTIFIED TO SITE CONTROL) 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.



Revision	No.	Date	By	Appr.	Comments
8	10/17/2024	KDM	CMV	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	KDM	CMV	CMV	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	CMV	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	CMV	1ST REVIEW COMMENTS (CITY)

COVER SHEET
**CENTERIS
VOLTAGE PARK**

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



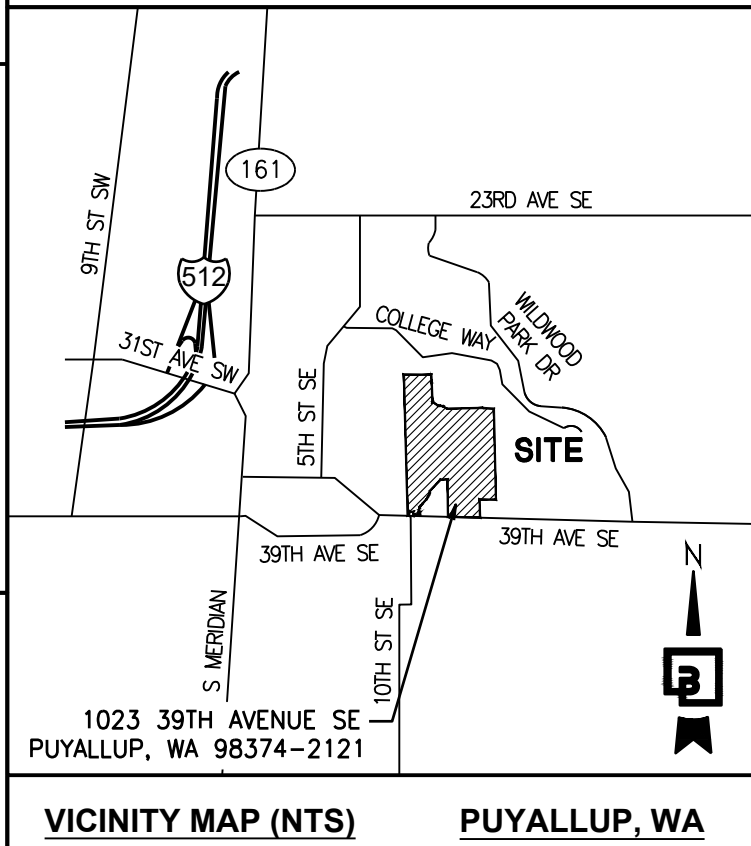
10/1/24
Scale: Horizontal 1" = 150', Vertical N/A

Designed KDM
Drawn KDM
Checked CMV
Approved DKB
Date 10/1/24

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

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.



**City of Puyallup
Development
Engineering
APPROVED**

See permit conditions.
A Hunt
11/06/2024
9:18:40 AM

Job Number
18111
Sheet
C1 of **22**

GENERAL NOTES 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

GENERAL SITE DEVELOPMENT NOTES

- THE GENERAL CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
- THE GENERAL CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
- 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.
- 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.
- IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- THE GENERAL CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC.
- THE GENERAL CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC. PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS GIVEN A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.

CONSTRUCTION SEQUENCE

- FLAGGING OF CLEARING LIMITS.
- SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH THE CITY OF PUYALLUP.
- 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.
- PROVIDE INLET PROTECTION AND FILTER FABRIC FENCE AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLANS.
- THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENTATION CONTROL MEASURES AND PROVIDE REPAIRS AS NEEDED FOR THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- CLEAR AND GRUB ALL REMAINDER OF THE SITE WITHIN THE CLEARING LIMITS AND ROUGH GRADE.
- PROVIDE COVER MEASURES TO INCLUDE ARMORING, MULCHING, AND HYDROSEEDING TO STABILIZE DENuded AREA AND PREVENT THE TRANSPORT OF SEDIMENT-LADEN STORMWATER OFF-SITE.
- PROVIDE STORM SYSTEM AND MISCELLANEOUS UTILITIES AS SHOWN ON THE PLANS.
- FINE GRADE THE SITE AND PAVE. COORDINATE WITH THE CITY OF PUYALLUP FOR REQUIRED INSPECTIONS.
- STABILIZE ALL REMAINING DISTURBED AREAS.

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

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF APPROVED PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"). WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION THAT REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, AND STORM) OF 5 FEET.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- A NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY, SOUTHWEST REGION OFFICE AT (360)407-6300.
- ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.

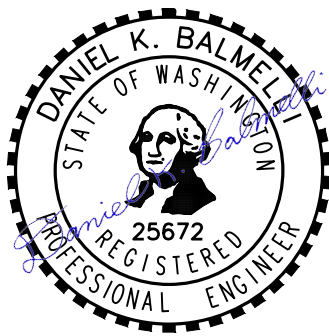
NO.	DATE	BY	CHKD.	APPR.	REVISION
8	10/1/2024	KDM	CMV	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	CMV	CMV	CMV	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	CMV	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	CMV	1ST REVIEW COMMENTS (CITY)

GENERAL NOTES

**CENTERIS
VOLTAGE PARK**

Title:

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



10/1/24

Scale: Horizontal N/A Vertical N/A

Designed KDM
Drawn KDM
Checked CMV
Approved DKB
Date 10/1/24

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

Job Number
18111

Sheet
C2 of **22**

**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 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.

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.

GENERAL NOTES 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 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 SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE 'CITY STANDARDS'), OR AS DIRECTED BY FRUITLAND MUTUAL WATER COMPANY (FMWC), VALLEY WATER (VW), OR TACOMA CITY WATER (TCW) IS THE PURVEYOR.
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER, THE ENGINEERING SERVICES STAFF, AND THE FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR, PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. BACTERIOLOGICAL (COLIFORM AND IRON BACTERIA) TEST SAMPLES WILL BE TAKEN BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) AND PAID FOR BY THE CONTRACTOR, EXCEPT FOR CAPITAL IMPROVEMENT PROJECTS (CIP) WHICH SHALL BE PAID FOR BY THE CITY.
9. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36 INCHES FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48 INCHES IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
10. PIPE FOR WATER MAINS SHALL BE DUCTILE IRON CONFORMING TO SECTION 7-09 OF THE STANDARD SPECIFICATIONS, CLASS 52 WITH TYTON OR APPROVED EQUAL JOINTS. PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH A.S.A. SPECIFICATION A 214-1964.
11. CONNECTIONS TO EXISTING WATER MAINS TYPICALLY SHALL BE WET TAPS THROUGH A TAPPING TEE AND TAPPING VALVE AND SHALL BE MADE BY A CITY APPROVED CONTRACTOR. THE TAPPING SLEEVE SHALL BE ROMAC SST ALL STAINLESS STEEL TAPPING SLEEVE OR APPROVED EQUAL. A TWO-PIECE EPOXY COATED OR DUCTILE IRON TAPPING SLEEVE MAY BE USED ON DUCTILE IRON PIPE, WHEN THE TAP IS SMALLER THAN THE WATER MAIN SIZE I.E. 8-INCH TAP ON 8-INCH PIPE. THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) SHALL APPROVE THE TIME AND LOCATION FOR THESE CONNECTIONS.
12. ALL WATER MAINS AND APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI IN ACCORDANCE WITH STANDARD SPECIFICATION 7-09.3(23). PRESSURE TESTING SHALL NOT BE PERFORMED UNTIL SATISFACTORY PURITY SAMPLES HAVE BEEN RECEIVED, EXCEPT WHEN NEW WATER MAINS ARE INSTALLED INDEPENDENTLY FROM THE WATER SYSTEM PIPING.
13. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 03.05.01 AND AS DIRECTED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL.
14. VALVE MARKER POSTS SHALL BE INSTALLED WHERE VALVE BOXES ARE HIDDEN FROM VIEW OR IN UNPAVED AREAS. THE INSTALLATION SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL 03.01.02.
15. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR 10-INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER 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. TRENCHING, BEDDING, AND BACKFILL FOR WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD DETAIL 06.01.01.
20. ALL COMMERCIAL AND INDUSTRIAL DEVELOPMENTS, IRRIGATION SYSTEMS, AND MULTI-FAMILY WATER SERVICE CONNECTIONS SHALL BE PROTECTED BY A DOUBLE CHECK VALVE ASSEMBLY OR A REDUCED PRESSURE BACKFLOW ASSEMBLY AS DIRECTED BY THE CITY (OR FMWC, VW OR TCW WHEN SERVED BY THAT PURVEYOR) CONFORMING TO CITY STANDARD DETAILS 03.04.01, 03.04.02, AND 03.04.03.
21. ANY LEAD JOINT FITTING DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH A MECHANICAL JOINT FITTING AT THE CONTRACTOR'S EXPENSE.
22. 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 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.

- 25. WATER MAIN REPAIRS (REFERENCES: AWWA C651-14 AND WSDOT STANDARD SPECIFICATION SECTION 7-09)(NOTE: A PLANNED WATER MAIN REPAIR SHALL BE APPROVED BY THE CITY INSPECTOR AND/OR WATER DIVISION SUPERVISOR PRIOR TO COMMENCING WORK.)
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 TEE, ALL NEW FITTINGS AND PIPE SPOOLS SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION (MINIMUM). THE INTERIOR OF THE EXISTING PIPE SHALL BE SWABBED WITH A FIVE PERCENT (5%) CHLORINE SOLUTION AT LEAST 6 FEET IN EACH DIRECTION FROM EXPOSED CUT ENDS. THE WATER MAIN IN THE AFFECTED AREA SHALL BE FLUSHED TO ACHIEVE THREE PIPE VOLUMES PULLED FROM THE PIPE (DISTANCE MEASURED FROM THE VALVE OPENED FOR FLUSHING TO THE EXIT HYDRANT OR BLOWOFF). CUSTOMERS SHALL BE NOTIFIED AFTER THE WATER MAIN IS FLUSHED AND REPAIRS HAVE BEEN COMPLETED, AS OUTLINED IN THE 'WATER MAIN BREAK PROCEDURE.'
26. NEW WATER MAIN INSTALLATION:
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) APPROVED SIXTY-FIVE PERCENT (65%) CALCIUM HYPOCHLORITE SHALL BE ADDED TO THE UPSTREAM END OF EACH PIPE SECTION, AND AT EACH HYDRANT TEE IN THE AMOUNT GIVEN IN THE TABLE BELOW (OR PER APPROVED MANUFACTURER SPECIFICATIONS). THE MINIMUM AMOUNT OF CALCIUM HYPOCHLORITE ADDED SHOULD BE SUFFICIENT TO ACHIEVE A 50 MG/L CONCENTRATION WITHIN THE IMPACTED AREA.
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 CHORINE IS CONTACTED, DISSOLVED AND SPREAD RELATIVELY UNIFORM THROUGH THE LENGTH OF THE NEW WATER MAIN. THE FILL RATE SHALL BE MINIMIZED SO THAT THE VELOCITY OF THE WATER IS LESS THAN 1 FT/SEC (SEE TABLE ABOVE). SUCCESSFUL PRESSURE TEST AND BACTERIOLOGICAL TESTS SHALL BE COMPLETED AND PROVIDED TO THE CITY PRIOR TO ANY NEW WATER MAIN CONNECTION TO THE EXISTING WATER SYSTEM.
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. IF NECESSARY, LIQUID CHLORINE SHALL BE INJECTED INTO THE WATER MAIN WITH FILL WATER TO MAINTAIN A CONCENTRATION IN THE WATER MAIN ABOVE 50 MG/L. UNDER NO CIRCUMSTANCE SHALL 'SUPER' CHLORINATED WATER BE ALLOWED TO SIT WITHIN A NEW WATER MAIN FOR MORE THAN 5 DAYS.
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 ELIMINATED. CARE MUST BE TAKEN THAT, DURING THIS PROCESS, POSITIVE PRESSURE REMAINS THROUGHOUT THE SYSTEM BEING TESTED AT ALL TIMES. ALL HYDRANT FOOT VALVES SHALL BE OPEN DURING PRESSURE TESTING SO THAT THE PRESSURE TEST IS AGAINST THE HYDRANT VALVE. PRESSURE TESTING WILL NOT BE ALLOWED AGAINST ANY EXISTING VALVES.
26.5. AFTER SUCCESSFUL PRESSURE TESTING, THE WATER MAIN SHALL BE THOROUGHLY FLUSHED TO REMOVE ALL 'SUPER' CHLORINATED WATER FROM THE NEW WATER MAIN. FLUSHING OF NEW OR EXTENDED WATER MAINS SHALL BE CONDUCTED PER WSDOT SPECIFICATION 7-09.3(24) WITH A MINIMUM VELOCITY DEVELOPED WITHIN THE PIPE WHILE FLUSHING OF 2.5 FEET PER SECOND (FPS). ALL FLUSHED WATER SHALL BE DECHLORINATED PRIOR TO DISPOSAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CHLORINATED WATER FLUSHED FROM MAINS. THE CITY SHALL APPROVE THE DISPOSAL METHOD PRIOR TO IMPLEMENTATION IN THE FIELD. THE CONTRACTOR SHALL UTILIZE ONSITE DISPOSAL METHODS, IF AVAILABLE. DISPOSAL OF FLUSH WATER TO THE SANITARY SEWER SYSTEM SHALL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE WATER POLLUTION CONTROL PLANT (WPCP) SUPERVISOR. ANY PLANNED DISCHARGE TO A STORMWATER SYSTEM SHALL BE DECHLORINATED TO A CONCENTRATION OF 0.1 PPM OR LESS. PH ADJUSTED (IF NECESSARY) TO BE BETWEEN 6.5 AND 8.5, AND VOLUMETRICALLY AND VELOCITY CONTROLLED TO PREVENT ANY RESUSPENSION OF SEDIMENTS. THE CITY WILL REQUIRE INDEPENDENT TESTING THROUGHOUT THE WATER DISCHARGE PROCESS TO ENSURE COMPLIANCE OF THESE STANDARDS ARE MET.
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 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 REQUIRES 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 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 F679 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 F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3- FEET.
15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

CITY OF PUYALLUP 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'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 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 TRIPLE WALLED AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PII WHEN TESTED IN ACCORDANCE WITH ASTM D2412. TESTING SHALL BE PER ASTM F1417. TRENCHING, BEDDING, AND 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.

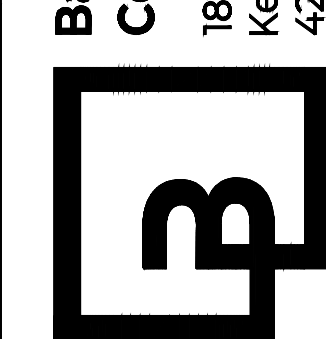
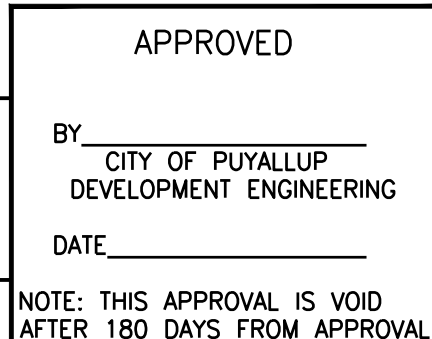
UTILITY CONFLICT NOTE:

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APPROVED
By: CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE:

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



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

Scale: Horizontal N/A Vertical N/A
Designed KDM Draw KDM Checked CWV Approved DKB Date 10/1/24

10/1/24

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

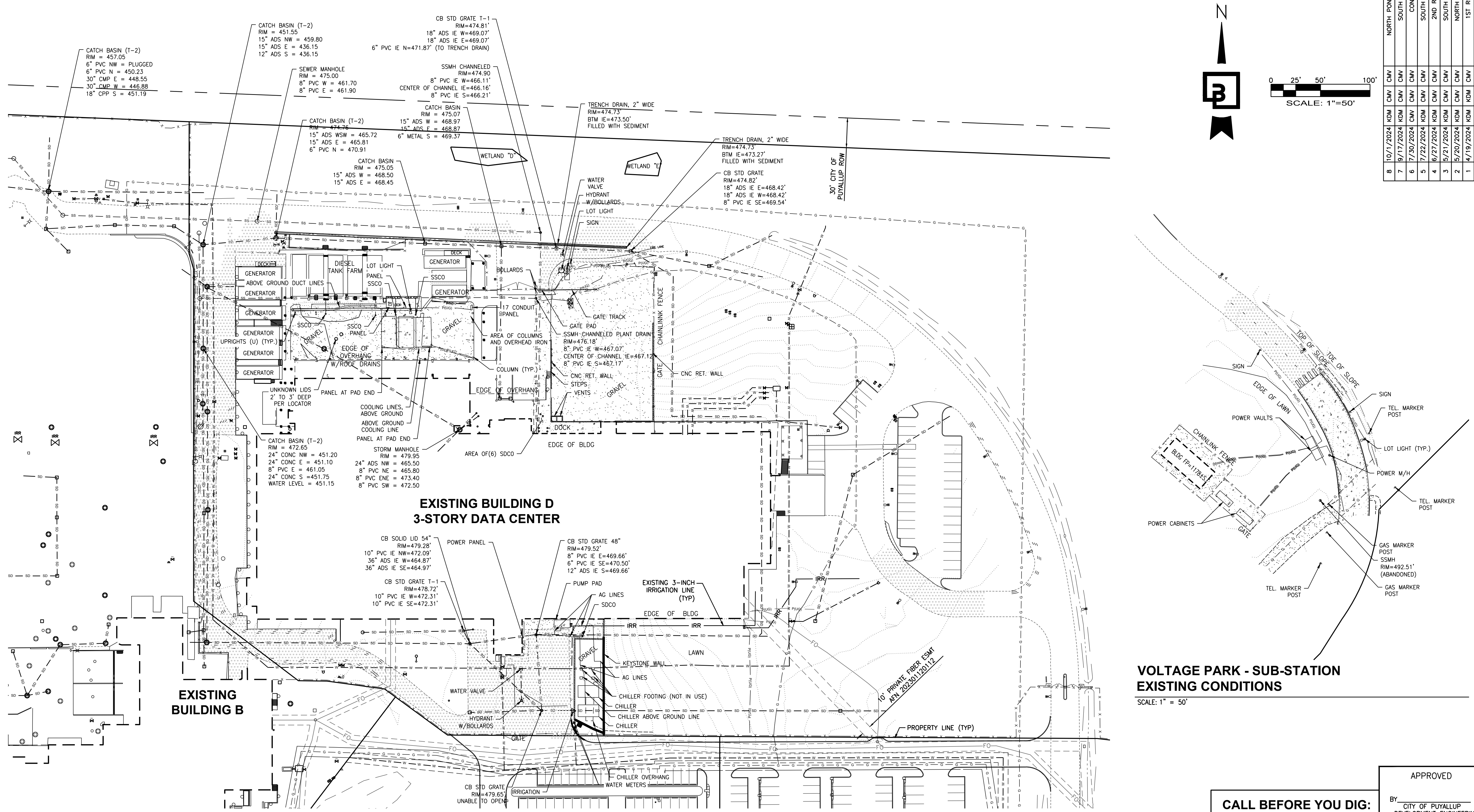
Title: GENERAL NOTES CENTERIS VOLTAGE PARK

Table with 10 columns: No., Date, By, Ctd., Appr., NORTH POND REVISIONS CITY COMMENTS, SOUTH UTILITY YARD REVISIONS, CONCRETE SLAB ADDITION, SOUTH UTILITY YARD REVISIONS, 2ND REVIEW COMMENTS (CITY), SOUTH UTILITY YARD REVISIONS, NORTH UTILITY YARD REVISIONS, 1ST REVIEW COMMENTS (CITY).

Job Number 18111 Sheet C3 of 22

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



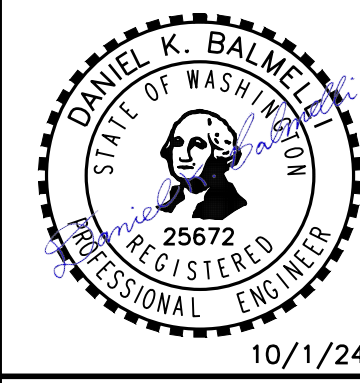
VOLTAGE PARK - BUILDING D EXISTING CONDITIONS
SCALE: 1" = 50'

VOLTAGE PARK - SUB-STATION EXISTING CONDITIONS
SCALE: 1" = 50'

NORTH POND REVISIONS CITY COMMENTS		SOUTH UTILITY YARD REVISIONS		CONCRETE SLAB ADDITION		SOUTH UTILITY YARD REVISIONS		2ND REVIEW COMMENTS (CITY)		SOUTH UTILITY YARD REVISIONS		NORTH UTILITY YARD REVISIONS		1ST REVIEW COMMENTS (CITY)	
No.	Date	By	Appr.	No.	Date	By	Appr.	No.	Date	By	Appr.	No.	Date	By	Appr.
8	10/1/2024	KDM	CMV	6	10/1/2024	KDM	CMV	4	6/27/2024	KDM	CMV	3	5/21/2024	KDM	CMV
7	9/17/2024	KDM	CMV	5	7/30/2024	KDM	CMV	3	6/27/2024	KDM	CMV	2	5/20/2024	KDM	CMV
6	7/30/2024	KDM	CMV	4	7/22/2024	KDM	CMV	2	5/20/2024	KDM	CMV	1	4/19/2024	KDM	CMV

EXISTING CONDITIONS PLAN
CENTERIS VOLTAGE PARK

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



Scale: Horizontal 1" = 50', Vertical N/A
Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 10/1/24

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

APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

CALL BEFORE YOU DIG:
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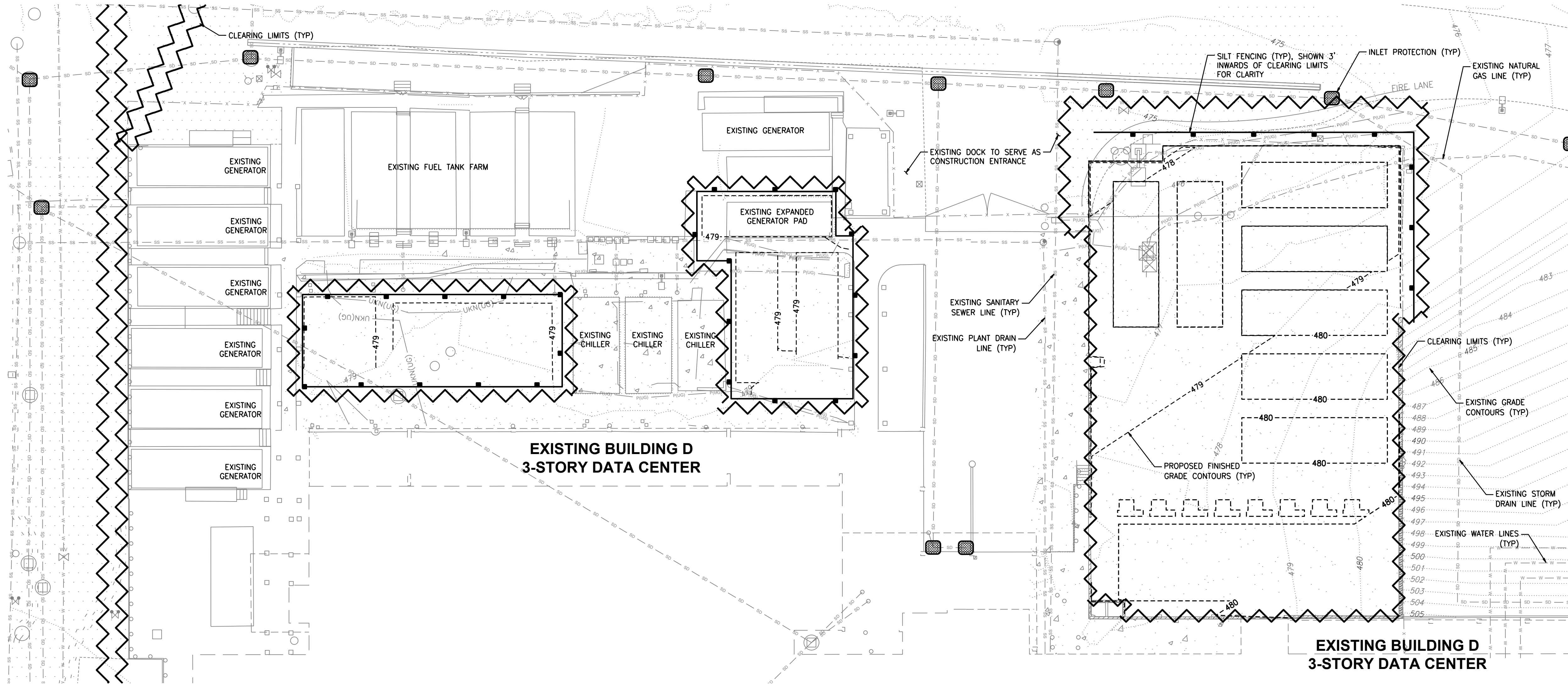
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Job Number: 18111
Sheet: C4 of 22

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'

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CLEARING NOTES

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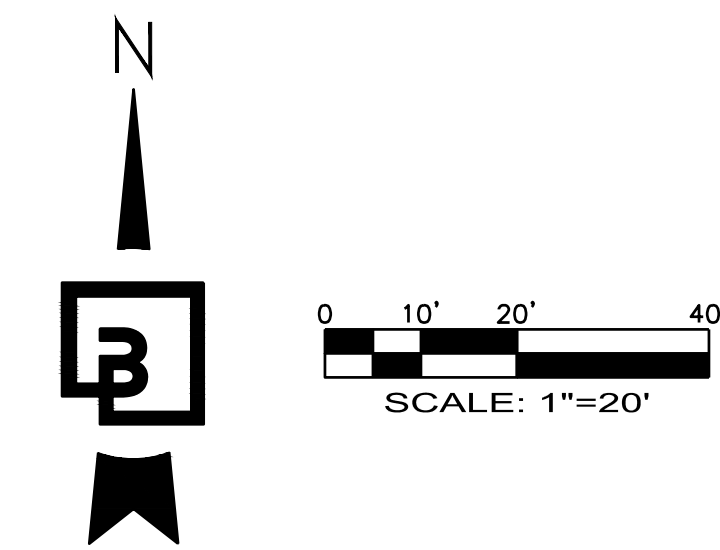
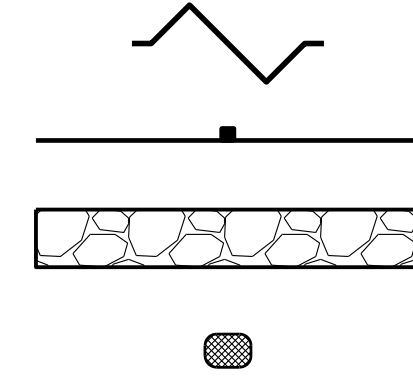
TESC LEGEND

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:
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TESC 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: KDM, Drawn: KDM, Checked: CMV, Approved: DKB, Date: 10/1/24

DANIEL K. BARGHAUSEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
25672
10/1/24

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

APPROVED

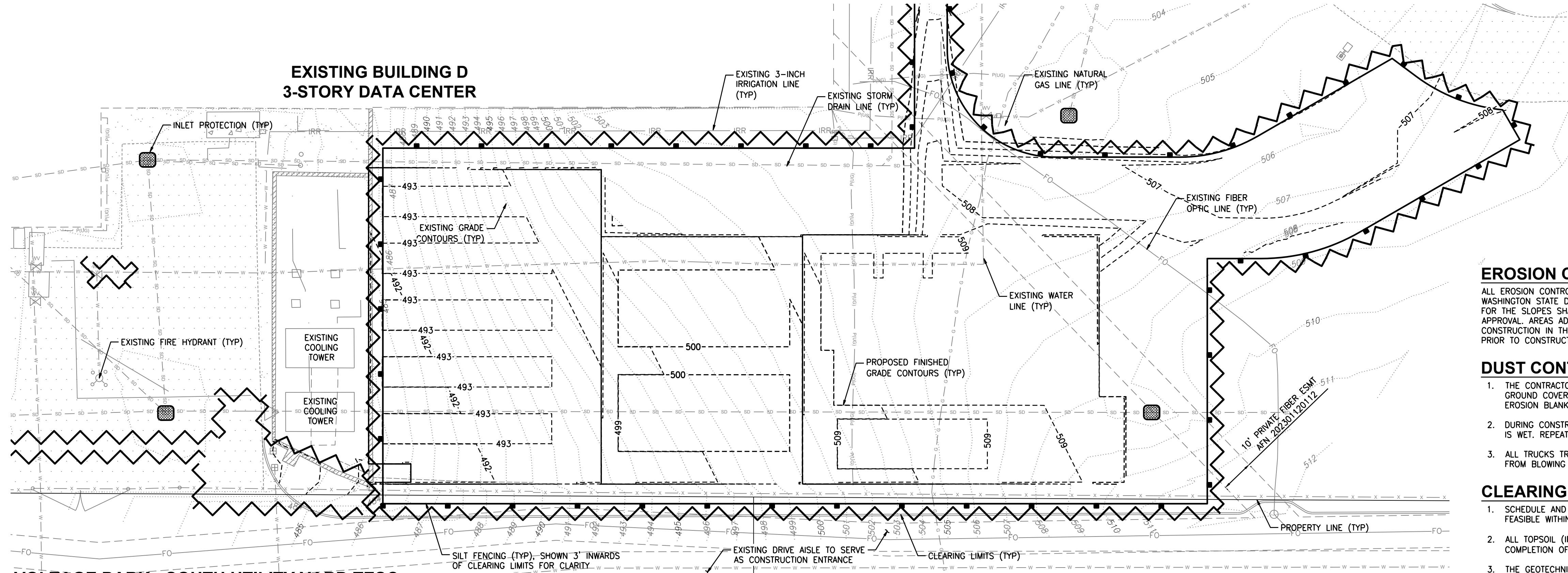
BY: CITY OF PUYALLUP DEVELOPMENT ENGINEERING
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Job Number: 18111
Sheet: C5 of 22

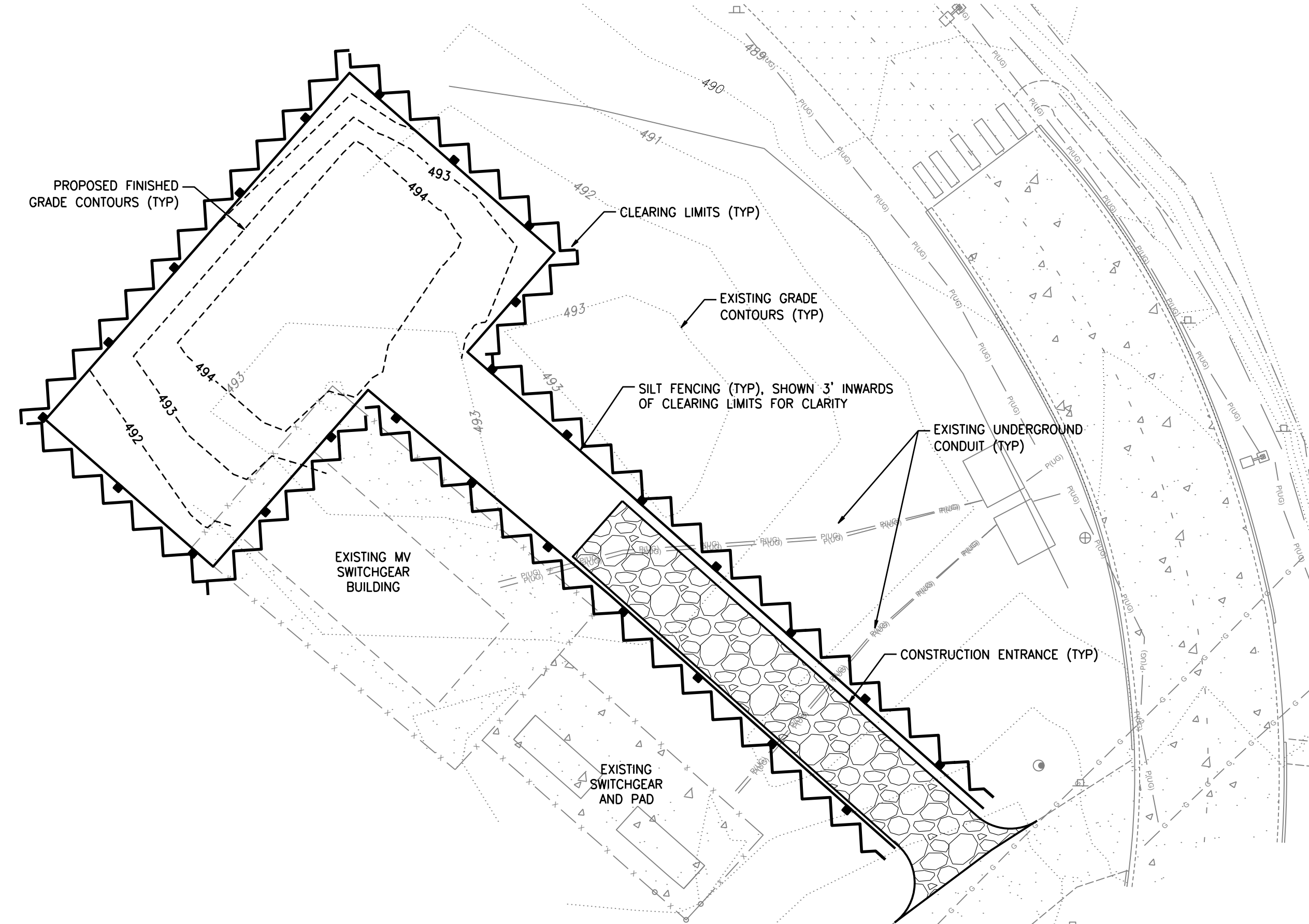
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VOLTAGE PARK - SOUTH UTILITY YARD TESC

SCALE: 1" = 20'



VOLTAGE PARK - SUB-STATION TESC

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TESC LEGEND

LIMITS OF CLEARING

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CITY OF PUYALLUP
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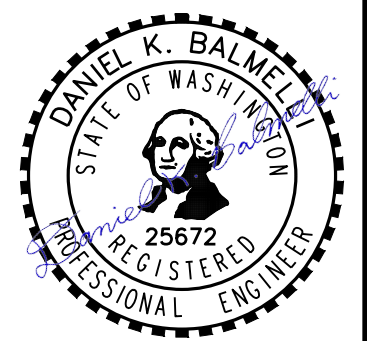
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TESC PLAN
**CENTERIS
VOLTAGE PARK**

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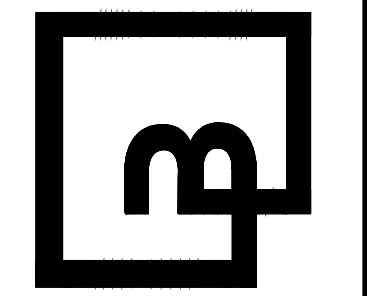


10/1/24

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Vertical N/A

Designed: KDM
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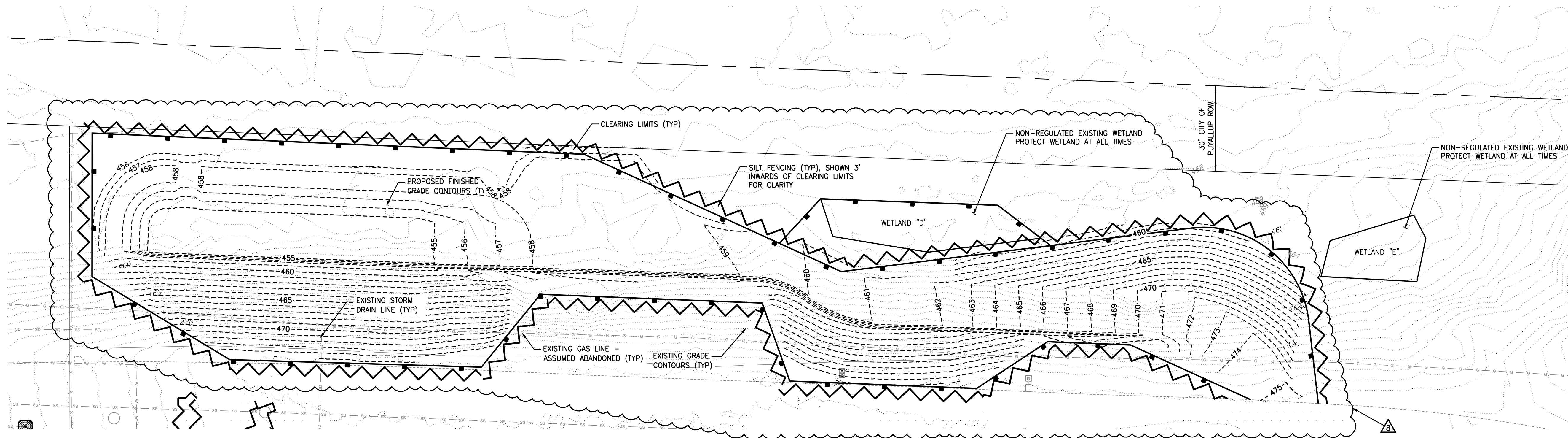
Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number: 18111
Sheet: C6 of 22

TESC PLAN FOR CENTERIS VOLTAGE PARK

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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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EROSION AND SEDIMENTATION CONTROL BMPs:

1. GRADING AND CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES TO MINIMIZE SOIL EXPOSURE.
2. THE CONTRACTOR SHALL PREVENT THE TRANSPORT OF THE SEDIMENT ONTO PAVED SURFACES DURING CONSTRUCTION. IF SEDIMENT IS TRANSFERRED ONTO A PAVED SURFACE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN IT IMMEDIATELY.
3. STOCKPILES ARE TO BE LOCATED IN A SAFE AREA AND ADEQUATE COVER WITHIN 24 HOURS TO PREVENT SOIL LOSSES.
4. THE CONTRACTOR SHALL MAINTAIN AND REPAIR AS NECESSARY ALL TEMPORARY AND PERMANENT EROSION CONTROL BMPs TO ASSURE CONTINUED PERFORMANCE.
5. ADDITIONAL COIR 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 SWEEPED WITH A STREET SWEEPER.

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.

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

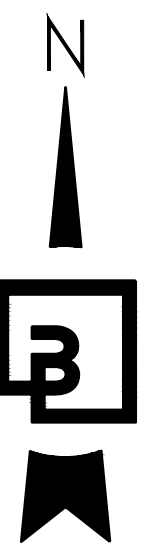
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

APPROVED

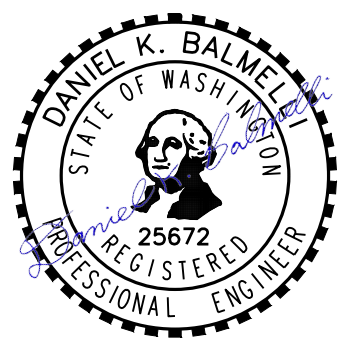
BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: _____

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



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

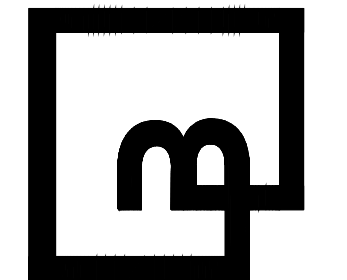


10/1/24

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

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 10/1/24

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



Job Number
18111

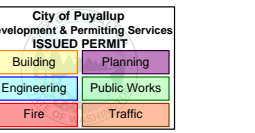
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C7 of **22**

No.	Date	By	Appr.	Revision
8	10/1/2024	KDM	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	CMV	CMV	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	1ST REVIEW COMMENTS (CITY)

Title:

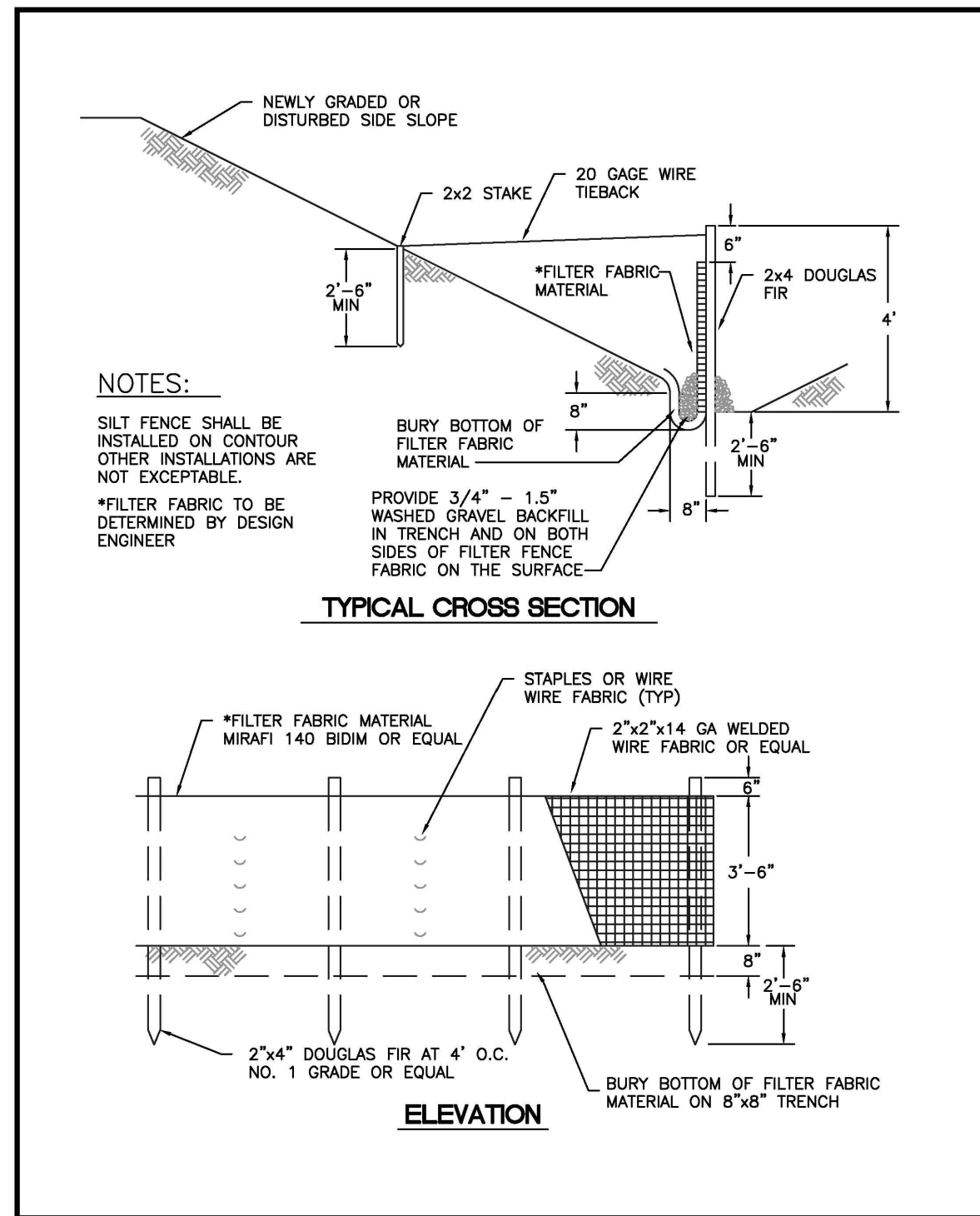
TESC PLAN

CENTERIS VOLTAGE PARK

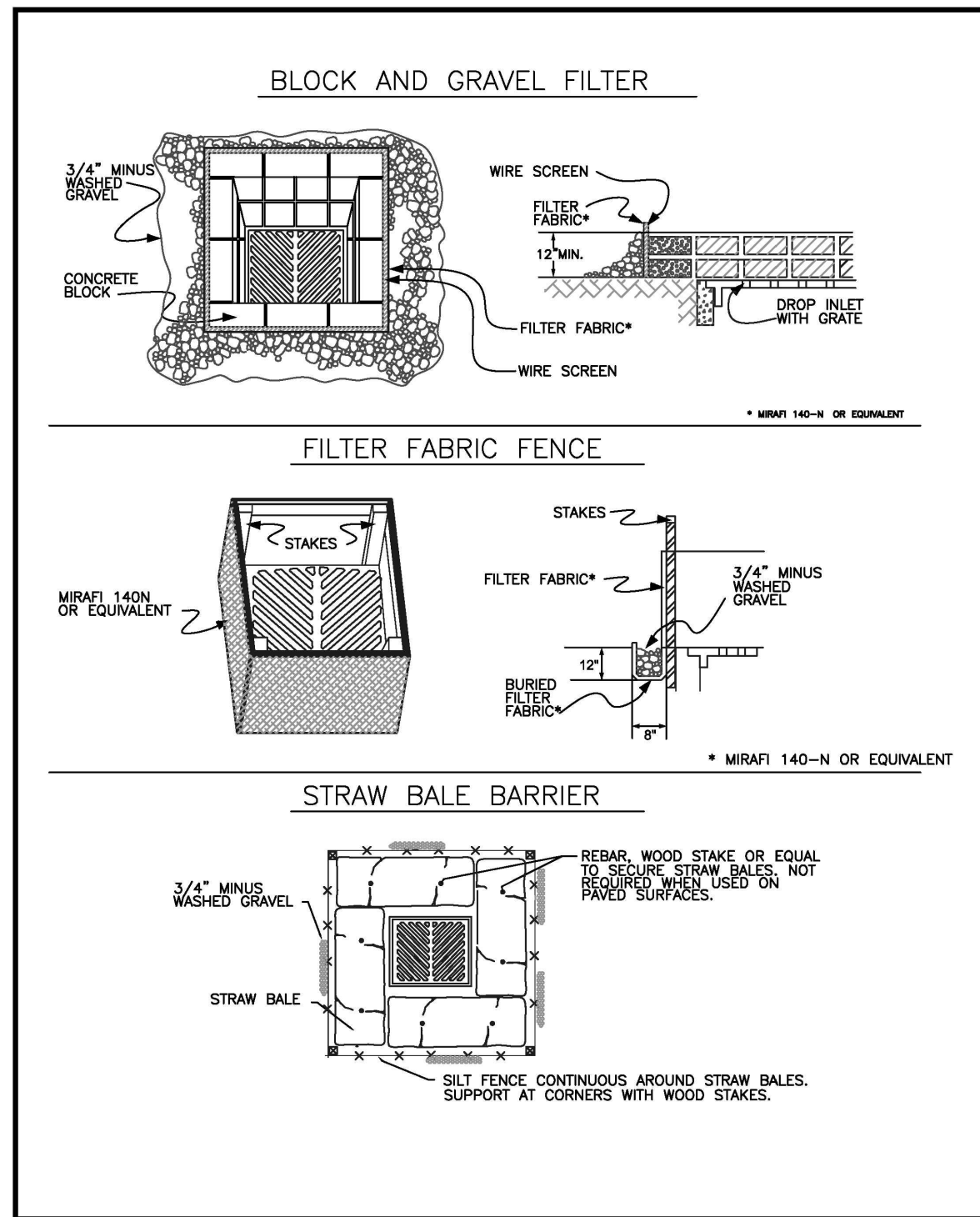


TESC NOTES AND DETAILS FOR CENTERIS VOLTAGE PARK

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



CITY OF PUYALLUP	SILTATION FENCE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 02.03.02	



CITY OF PUYALLUP	STORM DRAIN BARRIERS
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 02.03.05	

CONDITIONS WHERE PRACTICE APPLIES

- BLOCK AND GRAVEL FILTER – APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.
- FILTER FABRIC FENCE – APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS) AND FLAT AREA (LESS THAN 5% SLOPE).
- STRAW BALE BARRIER – APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA (LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 10.5 FT/SEC) OCCURS. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS AND HIGHWAYS.

1. BLOCK AND GRAVEL FILTER – INSTALLATION PROCEDURE

- PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF ONE FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE WIRE SCREEN WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
- PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET. SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHOULD ABUT. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS. THE STACKING COMBINATION OF BLOCKS THAT ARE 4-INCH, 8-INCH AND 12-INCH WIDE. THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BUT NO GREATER THAN 24-INCHES HIGH.
- PLACE WIRE SCREEN OVER THE OVERSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE BLOCKS. USE WIRE SCREEN WITH 1/2-INCH OPENINGS.
- PILE STONES AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4" MINUS WASHED GRAVEL.

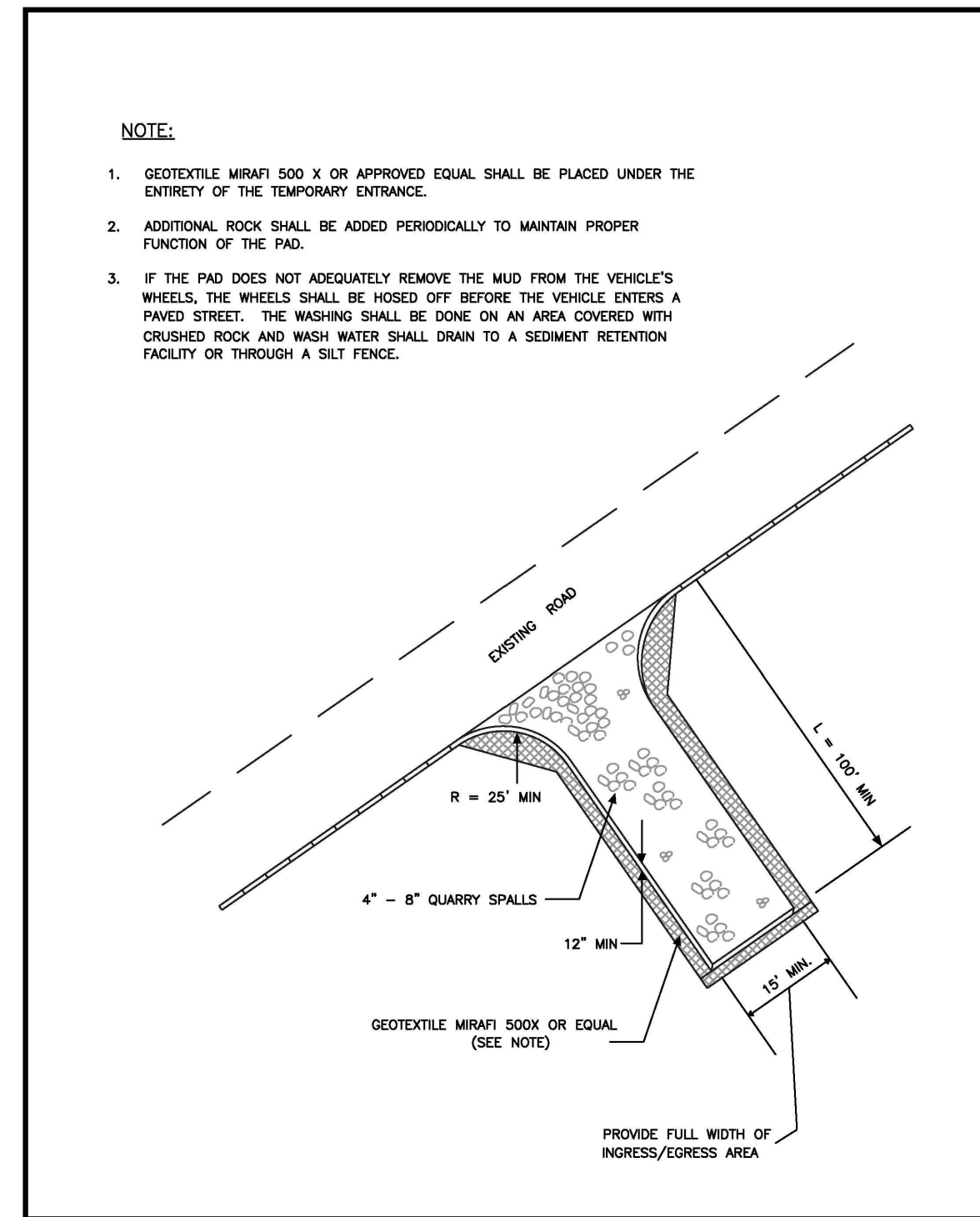
2. FILTER FABRIC FENCE – INSTALLATION PROCEDURE

- PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8-INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.
- EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
- STAPLE THE FILTER FABRIC TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.
- BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

3. STRAW BALE BARRIER – INSTALLATION PROCEDURE

- EXCAVATE A 4-INCH DEEP TRENCH AROUND THE INLET. MAKE THE TRENCH AS WIDE AS A STRAW BALE.
- ORIENT STRAW BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES RATHER THAN OVER AND UNDER THE BALES.
- PLACE BALES LENGTHWISE AROUND THE INLET AND PRESS THE ENDS OF ADJACENT BALES SECURELY IN PLACE.
- DRIVE TWO 2-INCH BY 2-INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECURELY IN PLACE.
- BACKFILL THE EXCAVATED SOIL AND COMPACT IT AGAINST THE BALE.
- WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.

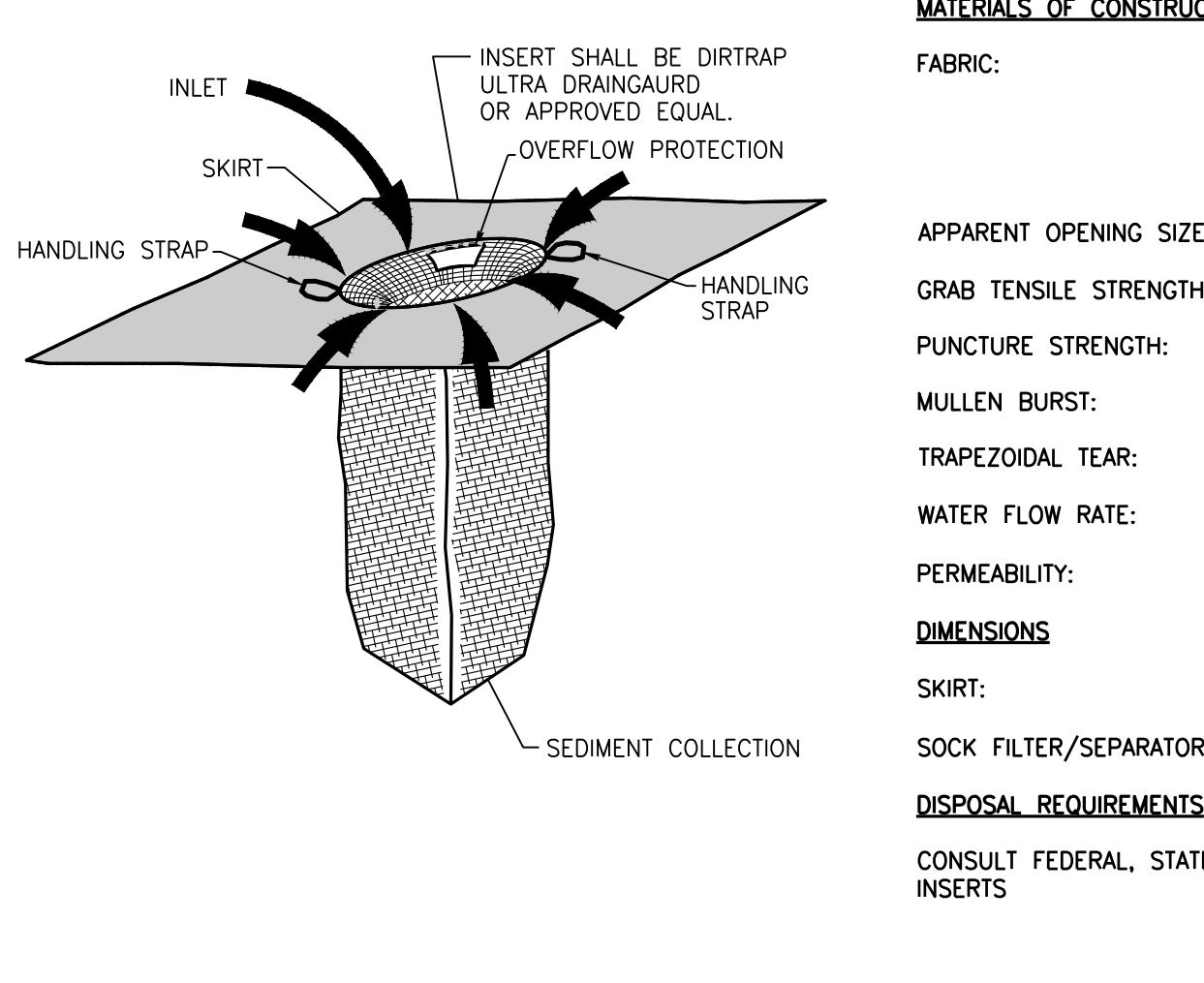
CITY OF PUYALLUP	STORM DRAIN BARRIERS NOTES
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 02.03.06	



CITY OF PUYALLUP	TEMPORARY CONSTRUCTION ENTRANCE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 05.01.01	

- 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 CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

CITY OF PUYALLUP	GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 05.02.01	



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.

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

UTILILITY CONFLICT NOTE:

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NOTE:

- GEOTEXTILE MIRAFI 500 X OR APPROVED EQUAL SHALL BE PLACED UNDER THE ENTIRETY OF THE TEMPORARY ENTRANCE.
- ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
- IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE'S WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.

NO.	DATE	BY	REVISION
8	10/1/2024	KDM	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	KDM	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	SOUTH UTILITY YARD REVISIONS
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1	4/19/2024	KDM	1ST REVIEW COMMENTS (CITY)



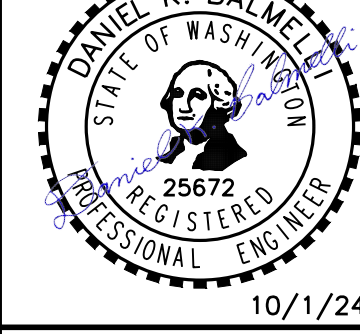
CITY OF PUYALLUP	TEMPORARY CONSTRUCTION ENTRANCE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 05.01.01	

TESC NOTES AND DETAILS

CENTERIS VOLTAGE PARK

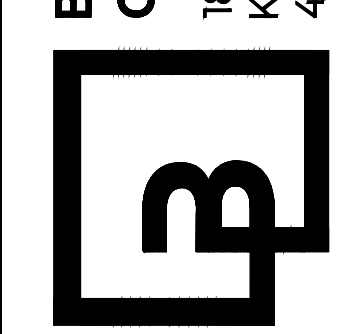
For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
 9675 SE 36TH ST, SUITE 115
 MERCER ISLAND, WA 98040

CITY OF PUYALLUP	TEMPORARY CONSTRUCTION ENTRANCE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS PREPARED BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name] CITY STANDARD: [Code] DATE: 05.01.01	



Scale:	Horizontal	Vertical	Date
	N/A	N/A	10/1/24

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



Job Number	Sheet	Date	Revision
18111	C8	10/1/24	

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

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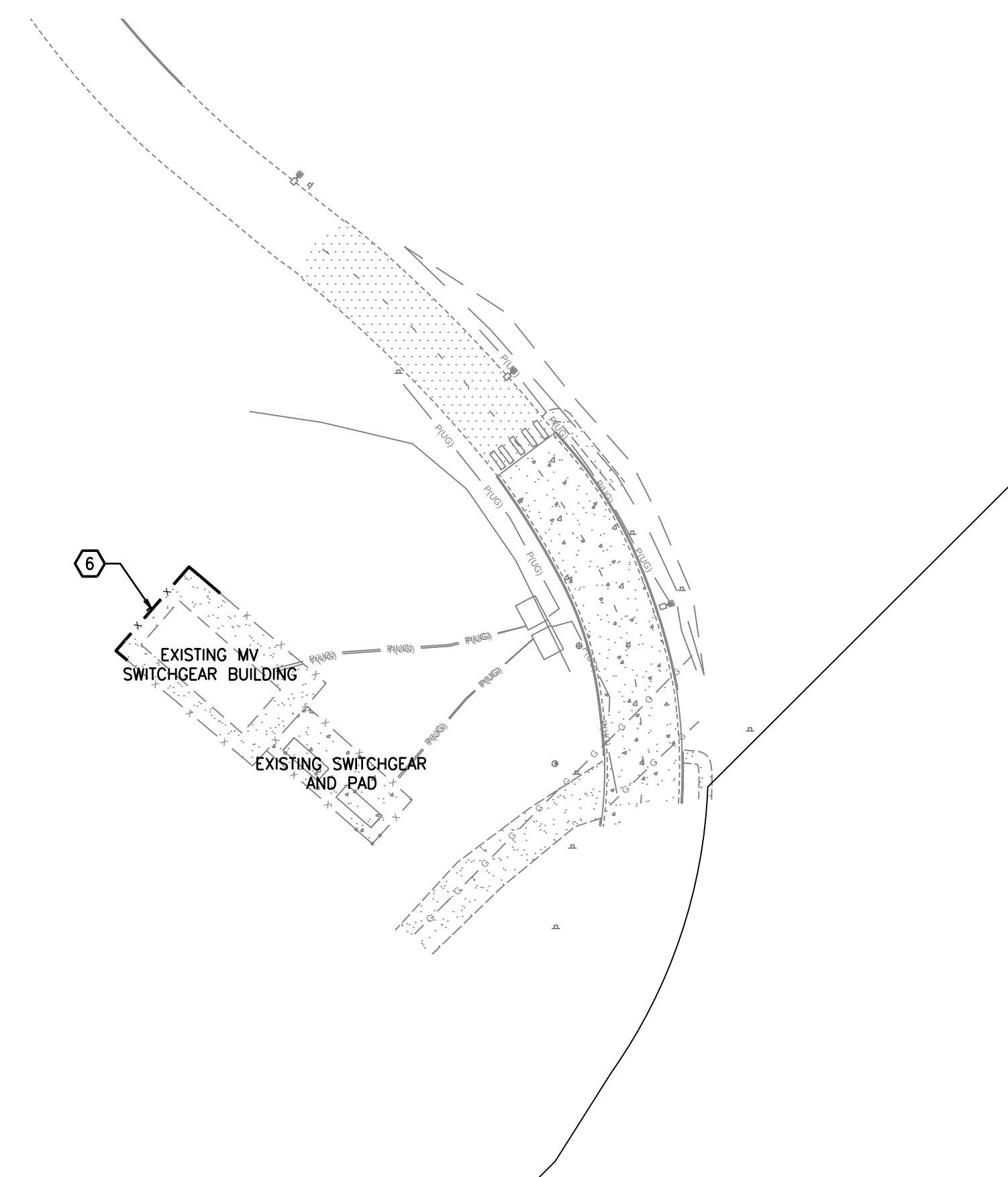
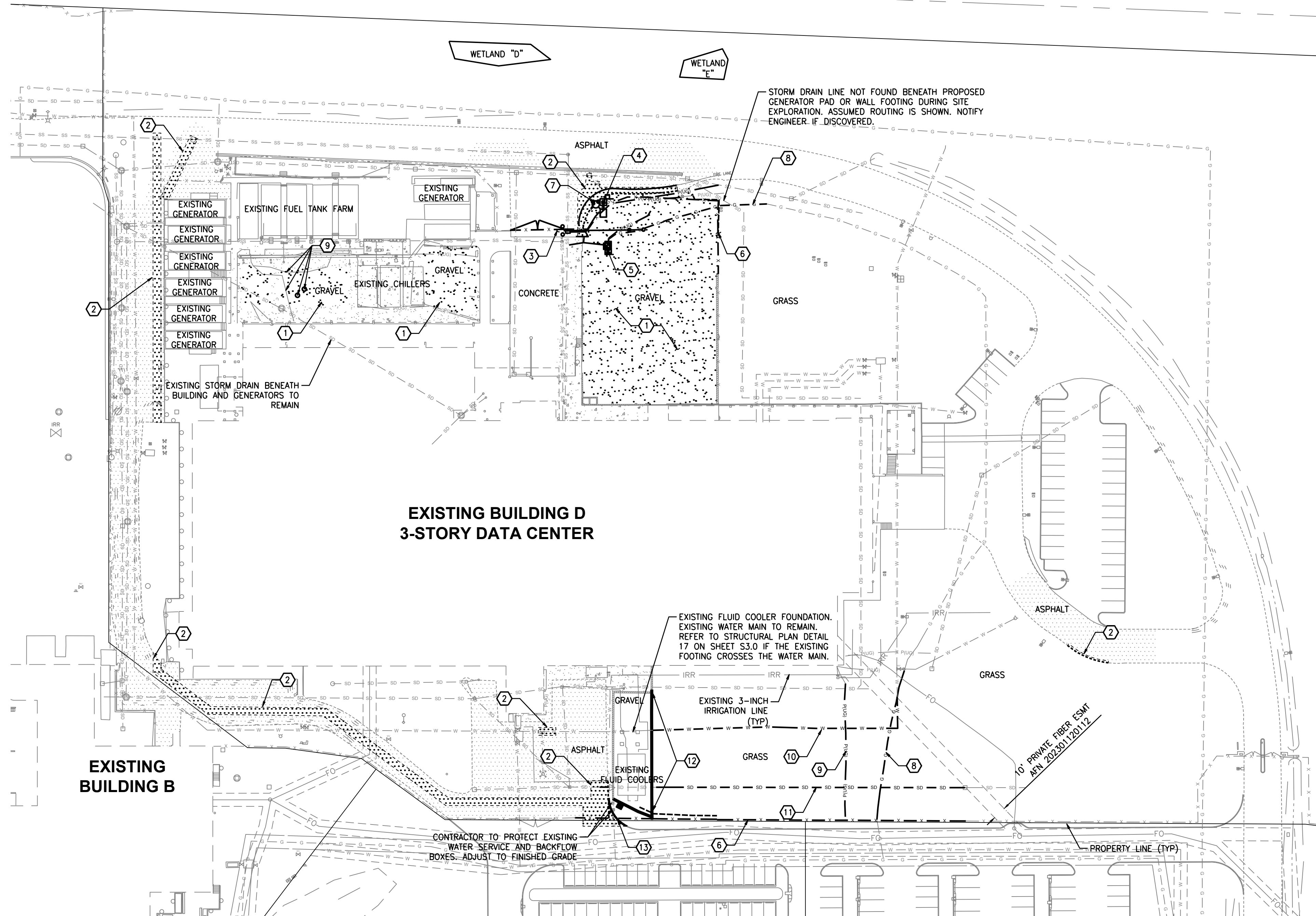
BY: _____
 CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING

DATE: _____

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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

1. 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.
2. ANY HAZARDOUS SUBSTANCES AND/OR MATERIALS ENCOUNTERED SHALL BE HANDLED AND DISPOSED OF BY QUALIFIED PERSONNEL ACCORDING TO COUNTY, STATE AND FEDERAL REGULATIONS.
3. 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.
4. CONTRACTOR SHALL CONFIRM AND VERIFY WORK SCOPE ITEMS TO DEMOLISH WITH THE OWNERS AUTHORIZED REPRESENTATIVE.

DEMOLITION KEYNOTES

- | | |
|--|--|
| <ol style="list-style-type: none"> 1 EXISTING GRAVEL PAD TO BE CLEARED WITHIN AREA OF CONSTRUCTION 2 EXISTING ASPHALT SURFACING TO BE REMOVED WITHIN THE DEFINED LIMITS. CONTRACTOR TO PROVIDE NEAT SAWCUT. 3 EXISTING SLIDING GATE, BOLLARD POSTS, AND MOTOR TO BE REMOVED. COORDINATE DISPOSAL WITH OWNER. 4 EXISTING YARD LIGHT TO BE RELOCATED. 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 RELOCATED. COORDINATE WITH UTILITY PURVEYOR ON RELOCATION. 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 AND STRUCTURE TO BE REMOVED AND RELOCATED. | <ol style="list-style-type: none"> 12 EXISTING KEYSTONE BLOCK RETAINING WALL TO BE REMOVED WITHIN THE DEFINED LIMITS 13 EXISTING CURBING TO BE REMOVED WITHIN THE DEFINED LIMITS |
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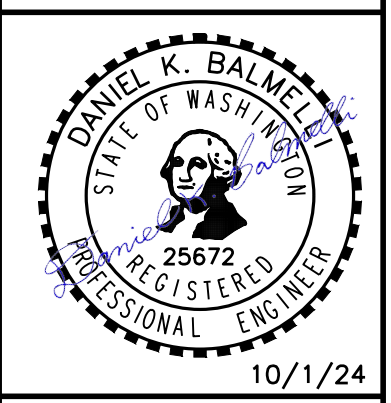
VOLTAGE PARK - SUB-STATION DEMOLITION

SCALE: 1" = 50'

No.	Date	By	Appr.	Revision
8	10/1/2024	KDM	CMV	NORTH POND REVISIONS CITY COMMENTS
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4	6/27/2024	KDM	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	1ST REVIEW COMMENTS (CITY)

DEMOLITION PLAN
CENTERIS
VOLTAGE PARK

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



Scale: Horizontal 1" = 50', Vertical N/A
Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 10/1/24

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

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

APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

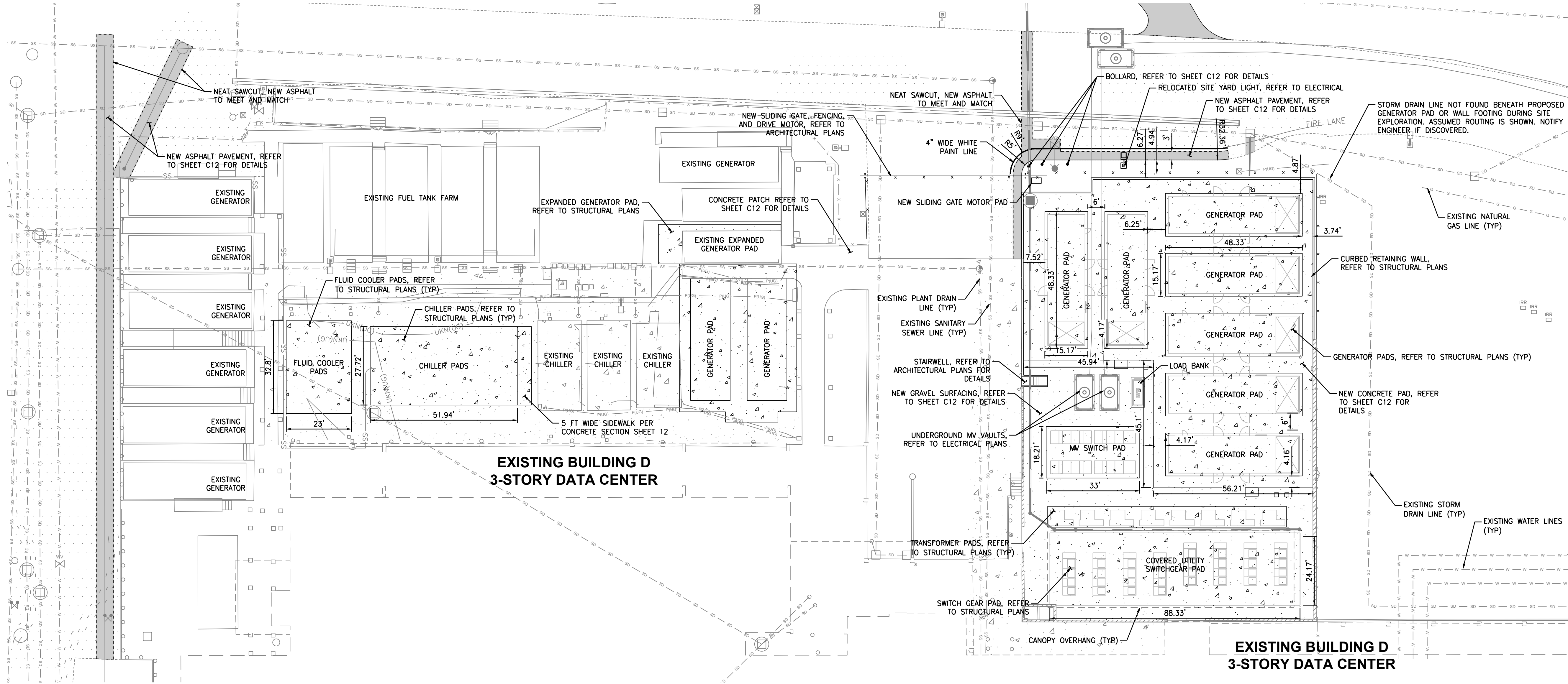
UTILITY CONFLICT NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY 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.

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.

Job Number: 18111
Sheet: C9 of 22

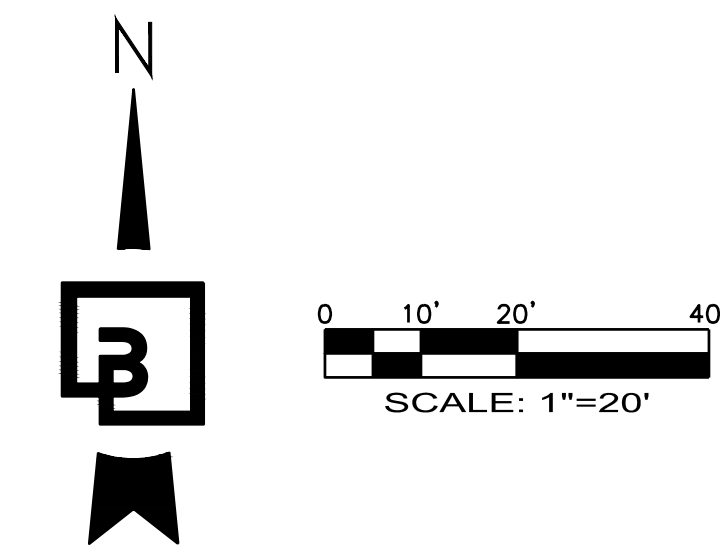
NORTH SITE PLAN FOR **CENTERIS VOLTAGE PARK**

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'



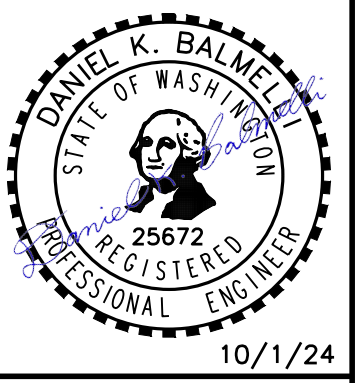
NORTH POND REVISIONS CITY COMMENTS	
8	10/1/2024 KDM CMV
7	9/17/2024 KDM CMV
6	7/30/2024 CMV CMV
5	7/22/2024 KDM CMV
4	6/27/2024 KDM CMV
3	5/21/2024 KDM CMV
2	5/20/2024 KDM CMV
1	4/19/2024 KDM CMV

SOUTH UTILITY YARD REVISIONS	
6	CONCRETE SLAB ADDITION
5	SOUTH UTILITY YARD REVISIONS
4	2ND REVIEW COMMENTS (CITY)
3	SOUTH UTILITY YARD REVISIONS
2	NORTH UTILITY YARD REVISIONS
1	1ST REVIEW COMMENTS (CITY)

No.	Date	By	Appr.	Revision

Title:
NORTH SITE 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: KDM, Draw: KDM, Checked: CMV, Approved: DKB, Date: 10/1/24

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

APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: _____

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

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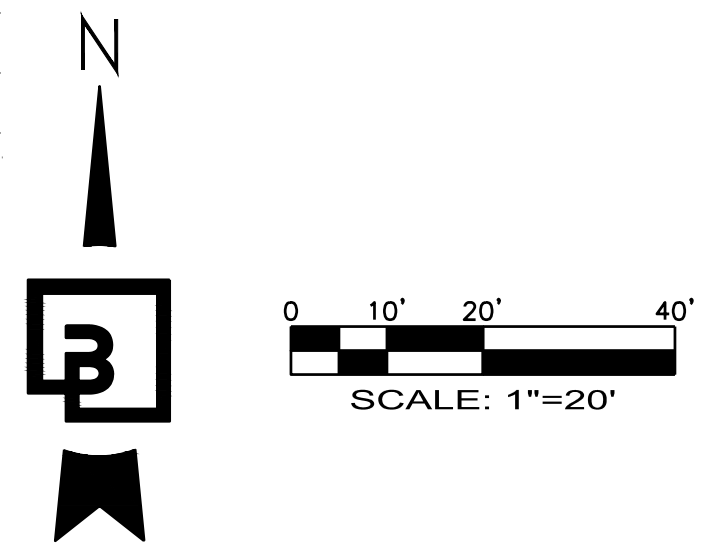
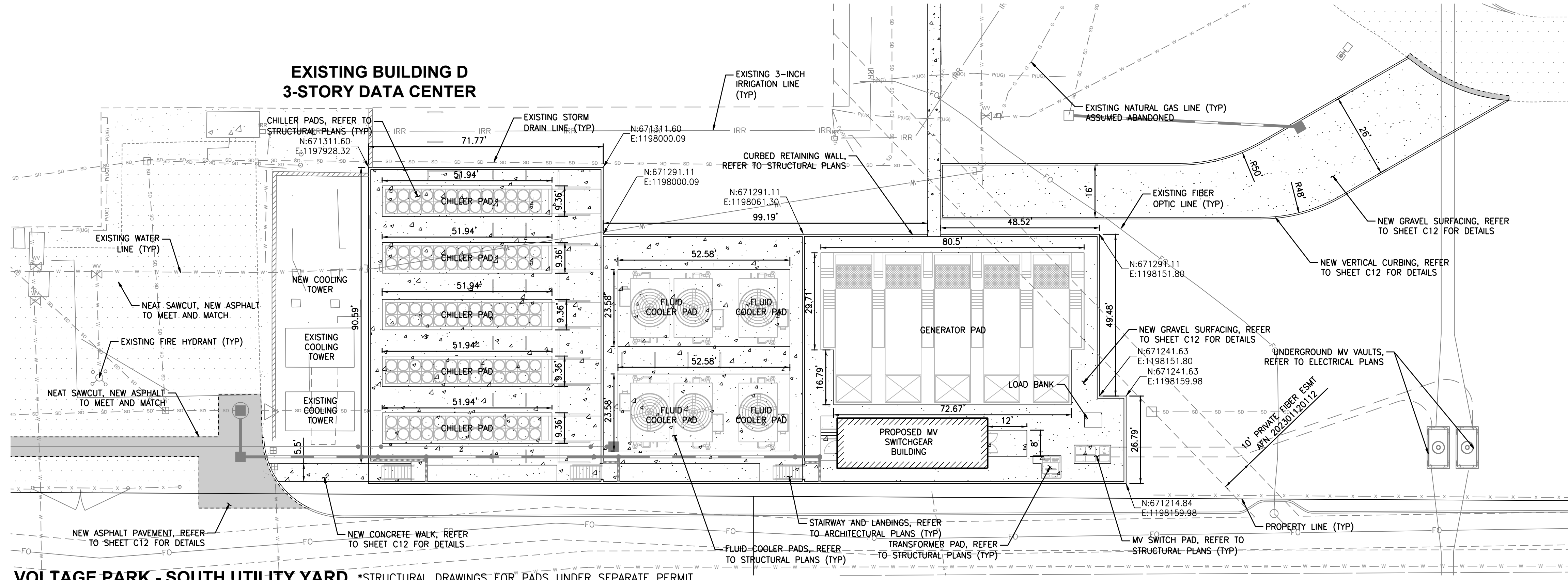
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Job Number: **18111**

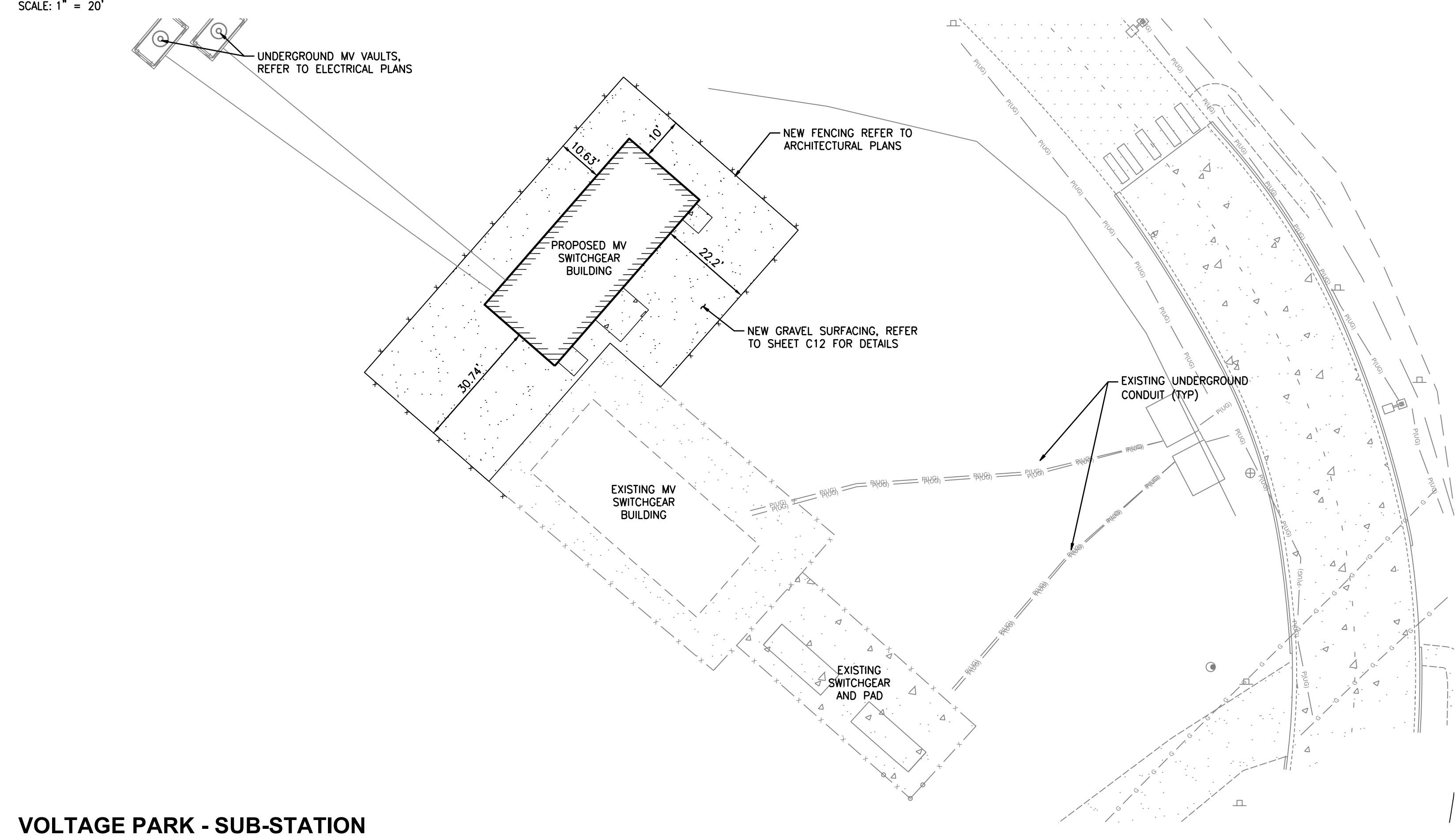
Sheet: **C10** of **22**

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



Building permit PRCTI20241387 may be issued before civil permit PRCCP20240183. Any discrepancies or issues between the building permit and civil permit shall be the contractors responsibility to address.



Prior to starting construction, the contractor shall verify the location and design of the existing utility lines located underneath the proposed project footprint. The general contractor shall be responsible for protecting the utilities as designed under the approved PRCCP20240183 civil plans and maintaining utility separation from all other existing and proposed utilities prior to pouring the concrete pads and installing the footings. Any and all conflicts between the proposed project and civil design shall be mitigated and corrected at the expense of the permit applicant and property owner. The City shall not be held responsible or liable for any conflicts that arise between the building and civil plans.

No.	Date	By	Appr.	Revision
8	10/1/2024	KDM	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	CMV	CMV	CONCRETE SLAB ADDITION
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2	5/20/2024	KDM	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	1ST REVIEW COMMENTS (CITY)

SOUTH SITE PLAN

**CENTERIS
VOLTAGE PARK**

Title:

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

10/1/24

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

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 10/1/24

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

VOLTAGE PARK - SUB-STATION
SCALE: 1" = 20'

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

APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: _____

UTILITY CONFLICT NOTE:

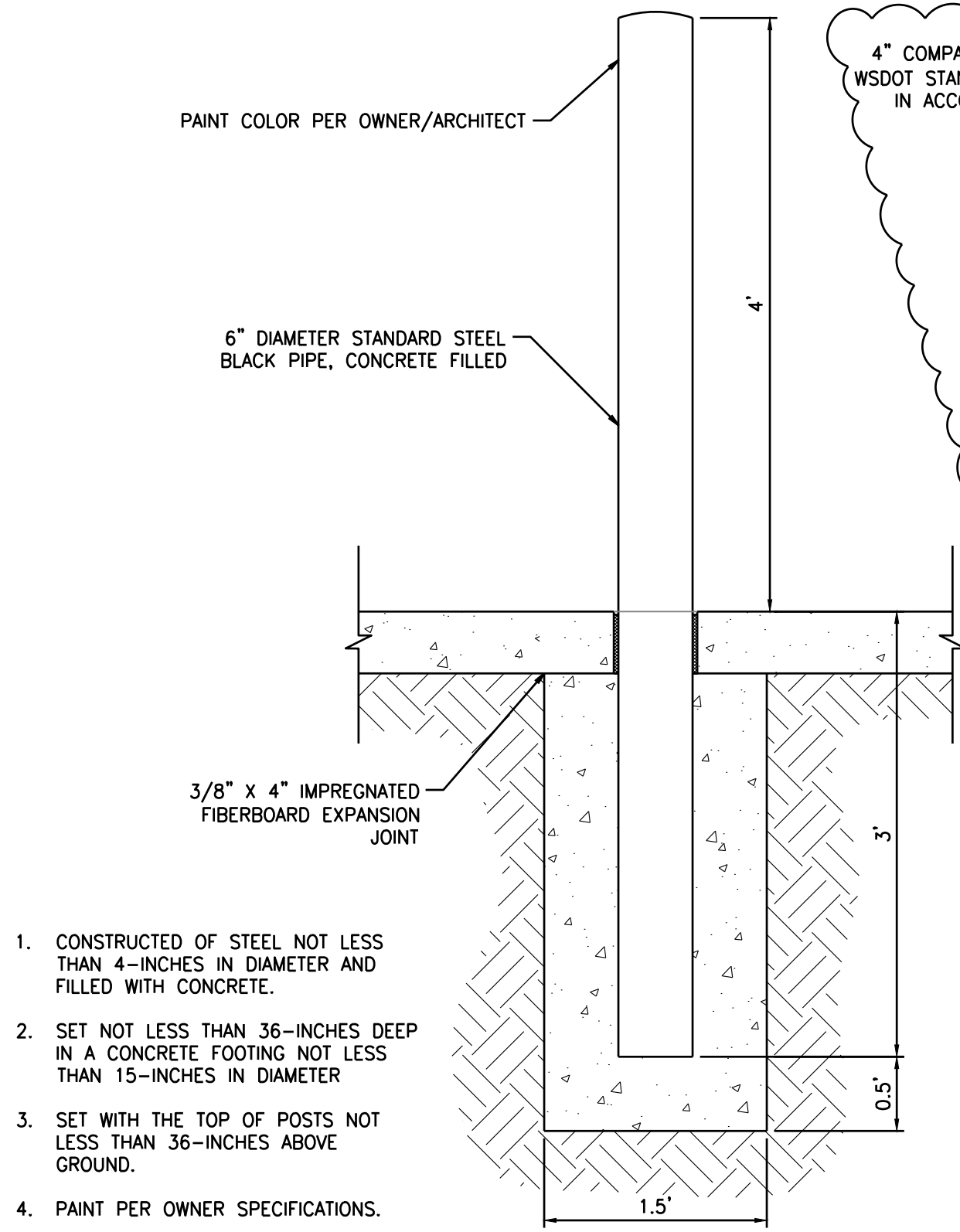
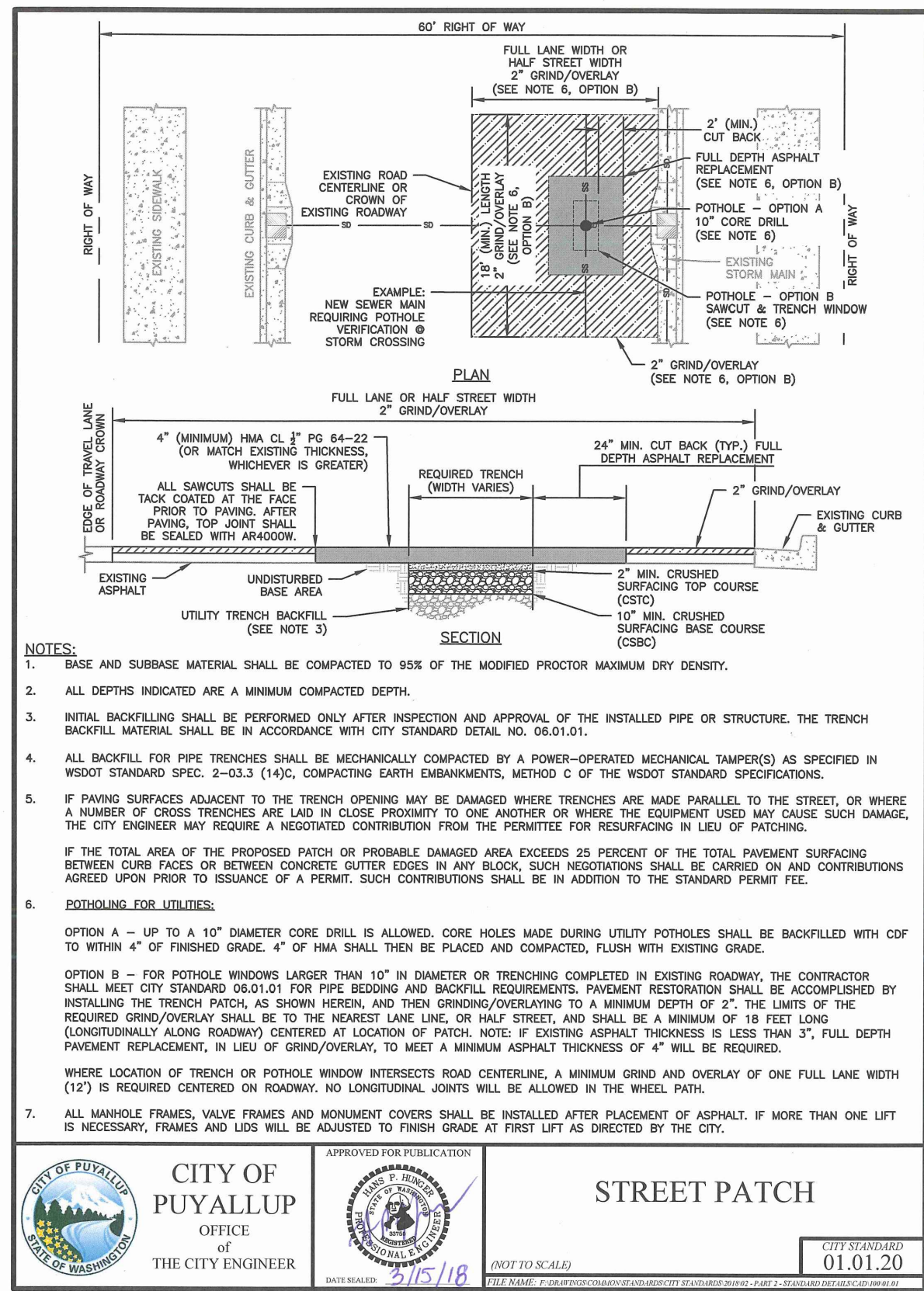
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Job Number: 18111
Sheet: C11 of 22

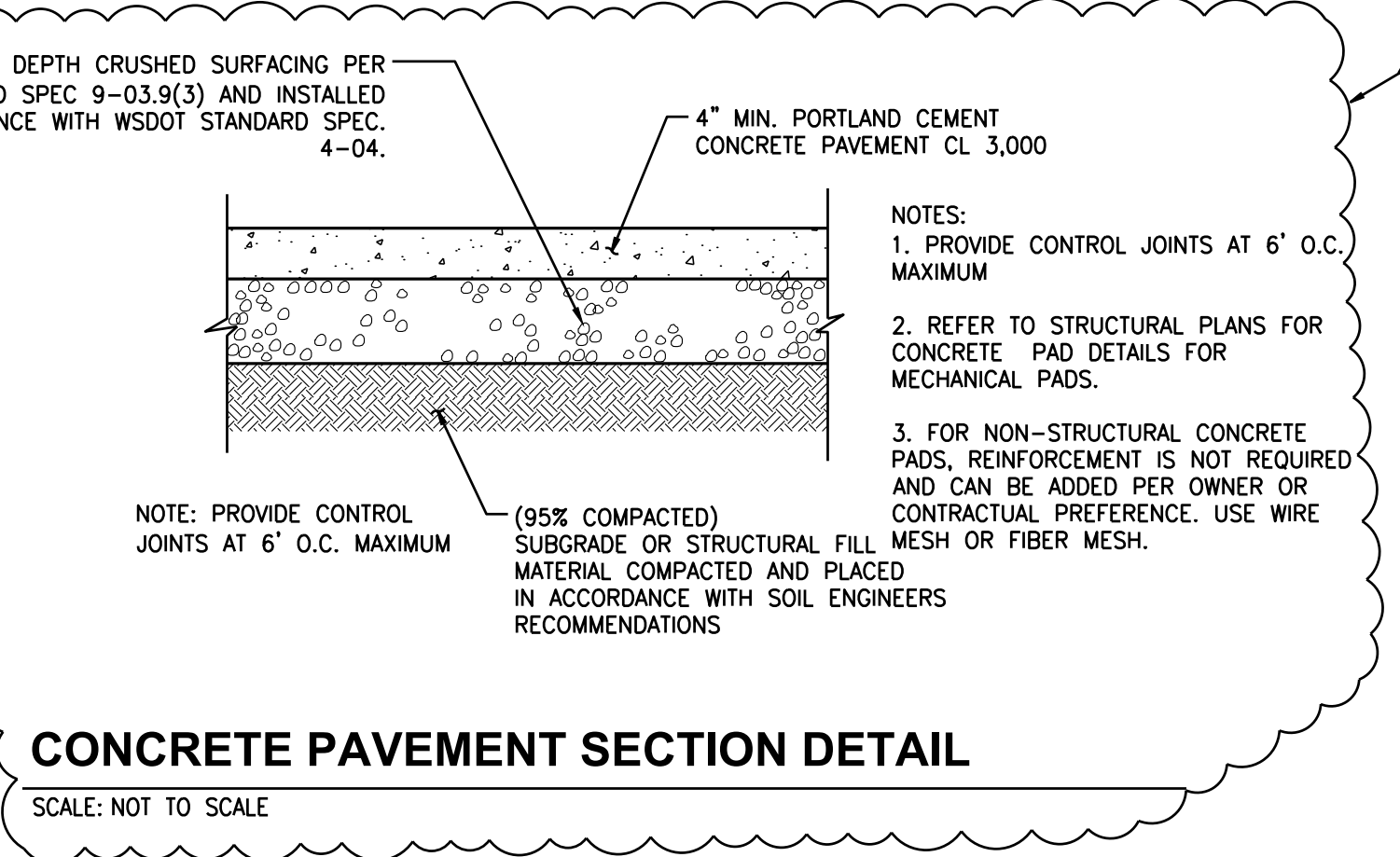
SITE DETAILS FOR CENTERIS VOLTAGE PARK

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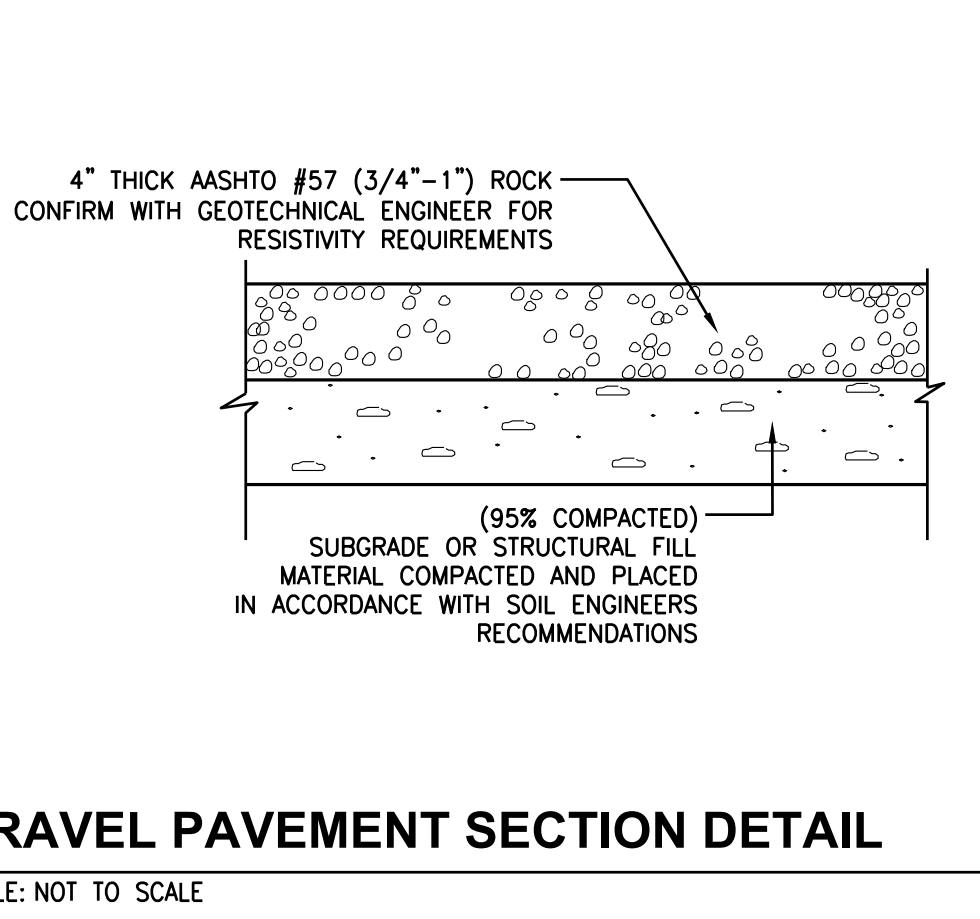
BOLLARD DETAIL

SCALE: NOT TO SCALE



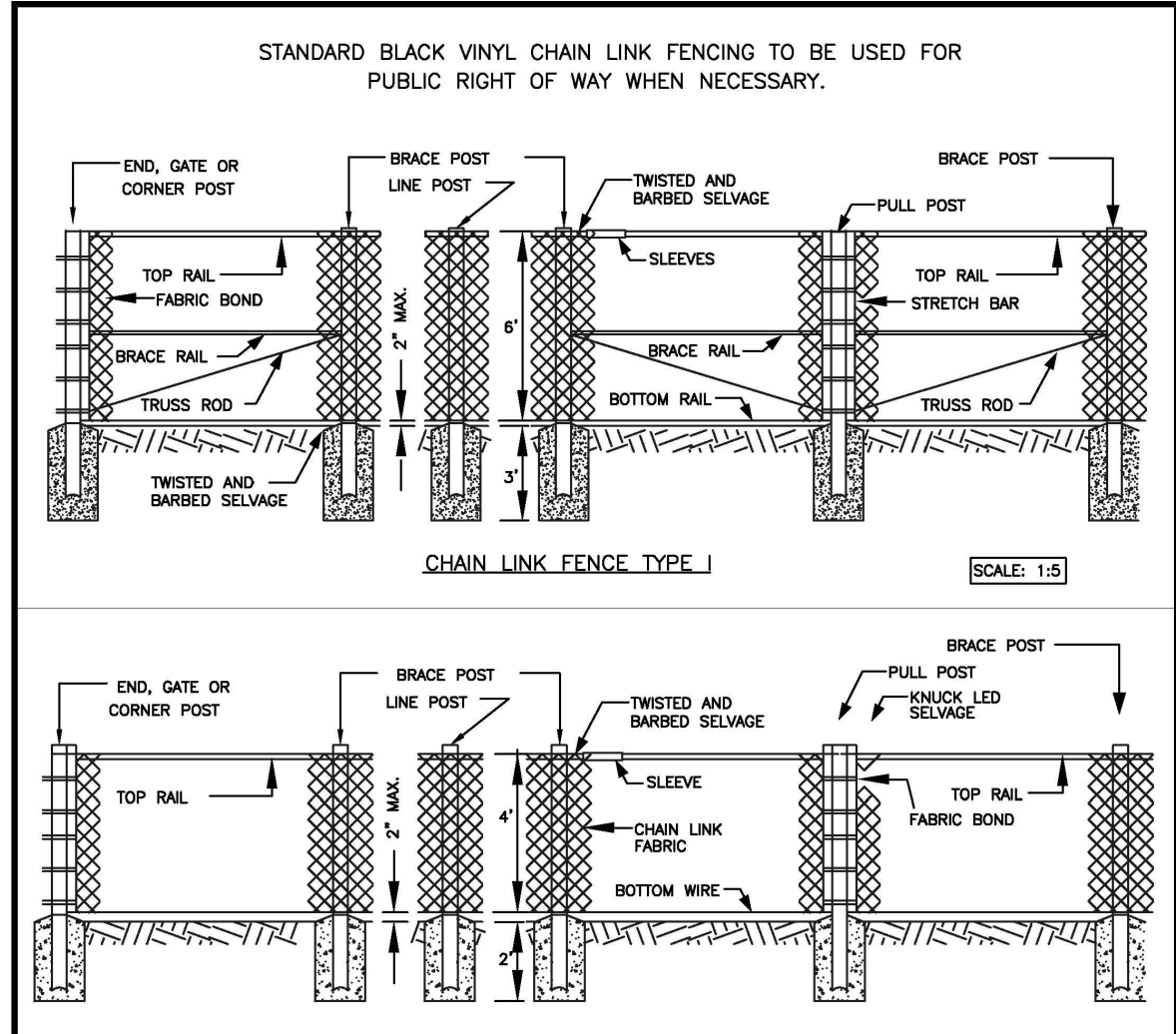
CONCRETE PAVEMENT SECTION DETAIL

SCALE: NOT TO SCALE



GRAVEL PAVEMENT SECTION DETAIL

SCALE: NOT TO SCALE



6" VERTICAL CURB DETAIL

SCALE: NOT TO SCALE

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENT

**CHAIN LINK FENCE
TYPE 1 AND TYPE 6**

DESIGNED BY TIM IRWIN/PT/0004	CHECKED BY LINDA LEVY	APPROVED BY COLLEEN HARRIS	DESIGNED BY XXXX
DATE APPROVED 07/03/2009	DATE REVIEWED 03/03/2009	DATE REVIEWED 03/03/2009	DATE REVIEWED XXXX

CITY STANDARD
06.01.08

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

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

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NORTH POND REVISIONS CITY COMMENTS		SOUTH UTILITY YARD REVISIONS		CONCRETE SLAB ADDITION		SOUTH UTILITY YARD REVISIONS		2ND REVIEW COMMENTS (CITY)		SOUTH UTILITY YARD REVISIONS		NORTH UTILITY YARD REVISIONS		1ST REVIEW COMMENTS (CITY)	
No.	Date	By	Appr.	No.	Date	By	Appr.	No.	Date	By	Appr.	No.	Date	By	Appr.
8	10/1/2024	KDM	CMV	6	7/30/2024	CMV	CMV	5	7/22/2024	KDM	CMV	4	6/27/2024	KDM	CMV
7	9/17/2024	KDM	CMV	5	7/22/2024	CMV	CMV	4	6/27/2024	KDM	CMV	3	5/21/2024	KDM	CMV
6	7/30/2024	CMV	CMV	4	6/27/2024	KDM	CMV	3	5/21/2024	KDM	CMV	2	5/20/2024	KDM	CMV
5	7/22/2024	KDM	CMV	3	5/21/2024	KDM	CMV	2	5/20/2024	KDM	CMV	1	4/19/2024	KDM	CMV
4	6/27/2024	KDM	CMV	2	5/20/2024	KDM	CMV	1	4/19/2024	KDM	CMV				

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

SITE DETAILS
CENTERIS
VOLTAGE PARK

Scale: Horizontal N/A, Vertical N/A

Designed: KDM, Drawn: KDM, Checked: CMV, Approved: DKB, Date: 10/1/24

APPROVED

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

Job Number: 18111

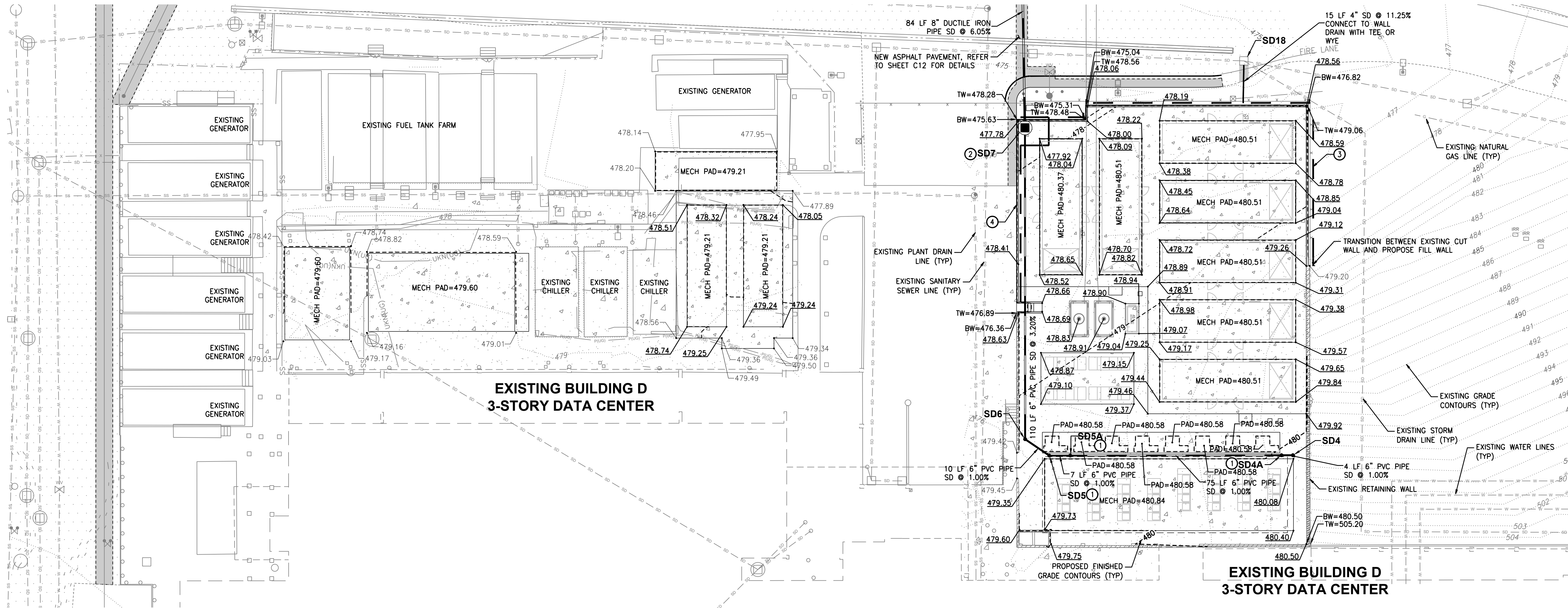
Sheet: C12 of 22

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

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



NORTH POND REVISIONS CITY COMMENTS	
8	10/1/2024 KDM CMV
7	9/17/2024 KDM CMV
6	7/30/2024 CMV
5	7/22/2024 KDM CMV
4	6/27/2024 KDM CMV
3	5/21/2024 KDM CMV
2	5/20/2024 KDM CMV
1	4/19/2024 KDM CMV

Title: NORTH GRADING & DRAINAGE PLAN
For: BENAROYA CAPITAL, LLC
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040

VOLTAGE PARK - NORTH UTILITY YARD

SCALE: 1" = 20'

STORM STRUCTURES	STORM STRUCTURES	STORM STRUCTURES
SD4 SDCO - 6" N: 671561.19 E: 1197973.51 RIM=480.07 IE=477.50 (6" W)	SD5 SDCO - 6" N: 671561.06 E: 1197894.49 RIM=479.42 IE=476.71 (6" E) IE=476.71 (6" W)	SD18 EXISTING CATCH BASIN N: 671701.10 E: 1197956.11 RIM=474.82 IE=469.54 (10" SE) IE=471.82 (4" S)
SD4a SDCO - 6" N: 671561.18 E: 1197969.46 RIM=480.03 IE=477.46 (6" E) IE=477.46 (6" W)	SD6 SDCO - 6" N: 671566.88 E: 1197878.47 RIM=479.21 IE=476.54 (6" SE) IE=476.54 (6" N)	
SD5 SDCO - 6" N: 671561.05 E: 1197887.06 RIM=479.35 IE=476.64 (6" E) IE=476.64 (6" NW)	SD7 CB TYPE 2 - 48" N: 671677.36 E: 1197878.41 RIM=477.83 IE=473.00 (6" S) IE=472.00 (8" N)	

GRADING GENERAL NOTES

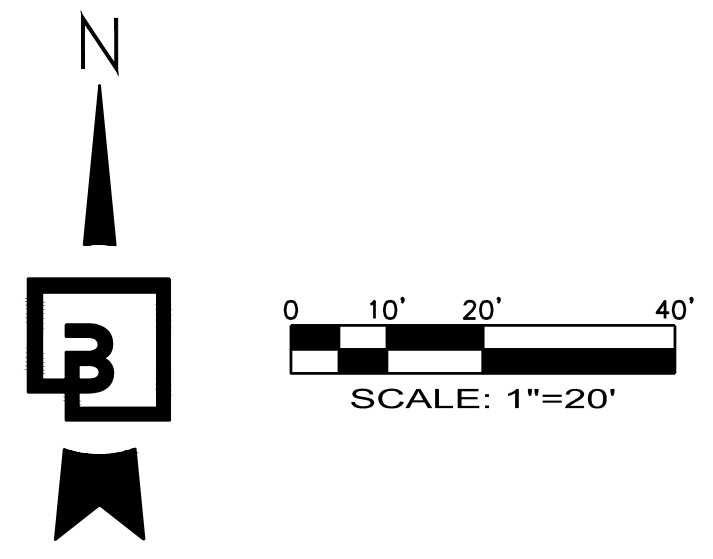
- ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS AND THE GEOTECHNICAL REPORTS PREPARED BY GEOENGINEERS DATED JUNE 14TH AND 19TH, 2024. THE GRADING AND IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION OF THE PUBLIC WORKS DEPARTMENT.
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- ALL SPOT ELEVATIONS SHOWN ARE TO FINISHED SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT) UNLESS OTHERWISE NOTED.
TW = TOP OF WALL
BW = BOTTOM OF WALL
- GEOTECHNICAL INVESTIGATION 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



No.	Date	By	Appr.
8	10/1/2024	KDM	CMV
7	9/17/2024	KDM	CMV
6	7/30/2024	CMV	CMV
5	7/22/2024	KDM	CMV
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2	5/20/2024	KDM	CMV
1	4/19/2024	KDM	CMV

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

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 10/1/24

Professional Engineer:
DANIEL K. BARMER
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
25672
10/1/24

APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

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

UTILITY CONFLICT NOTE:
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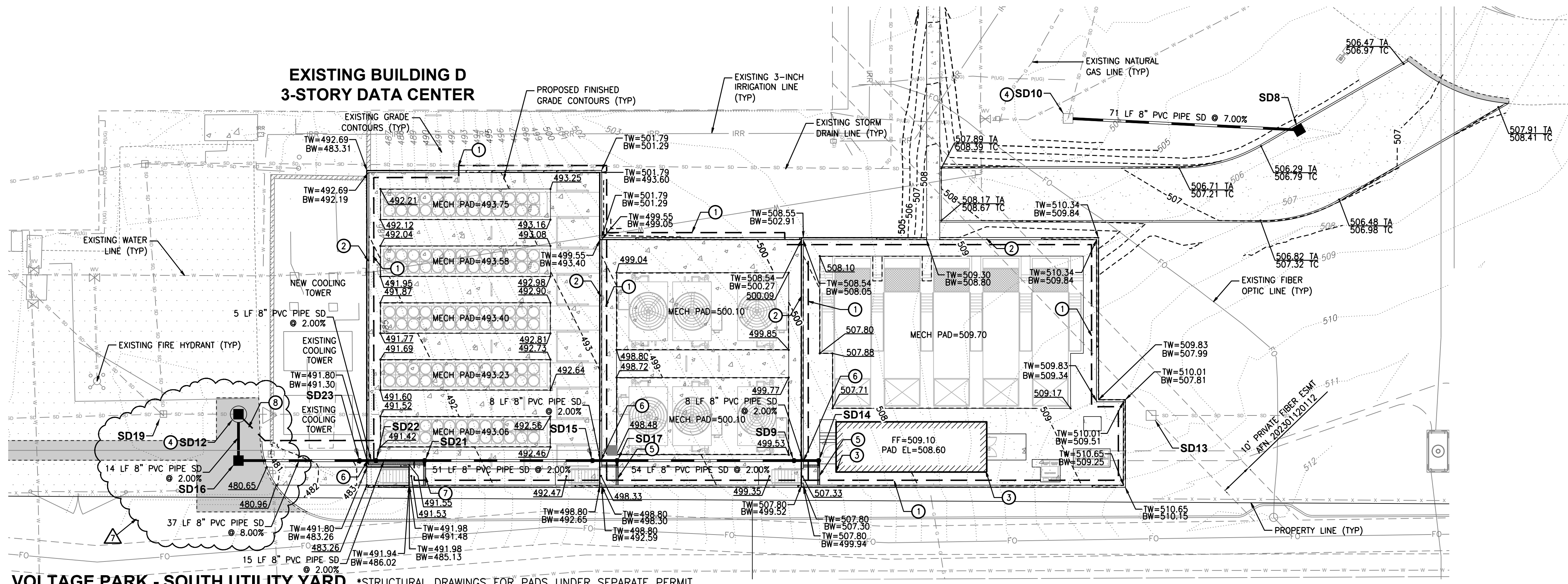
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Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
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barghausen.com

Job Number: 18111
Sheet: C13 of 22

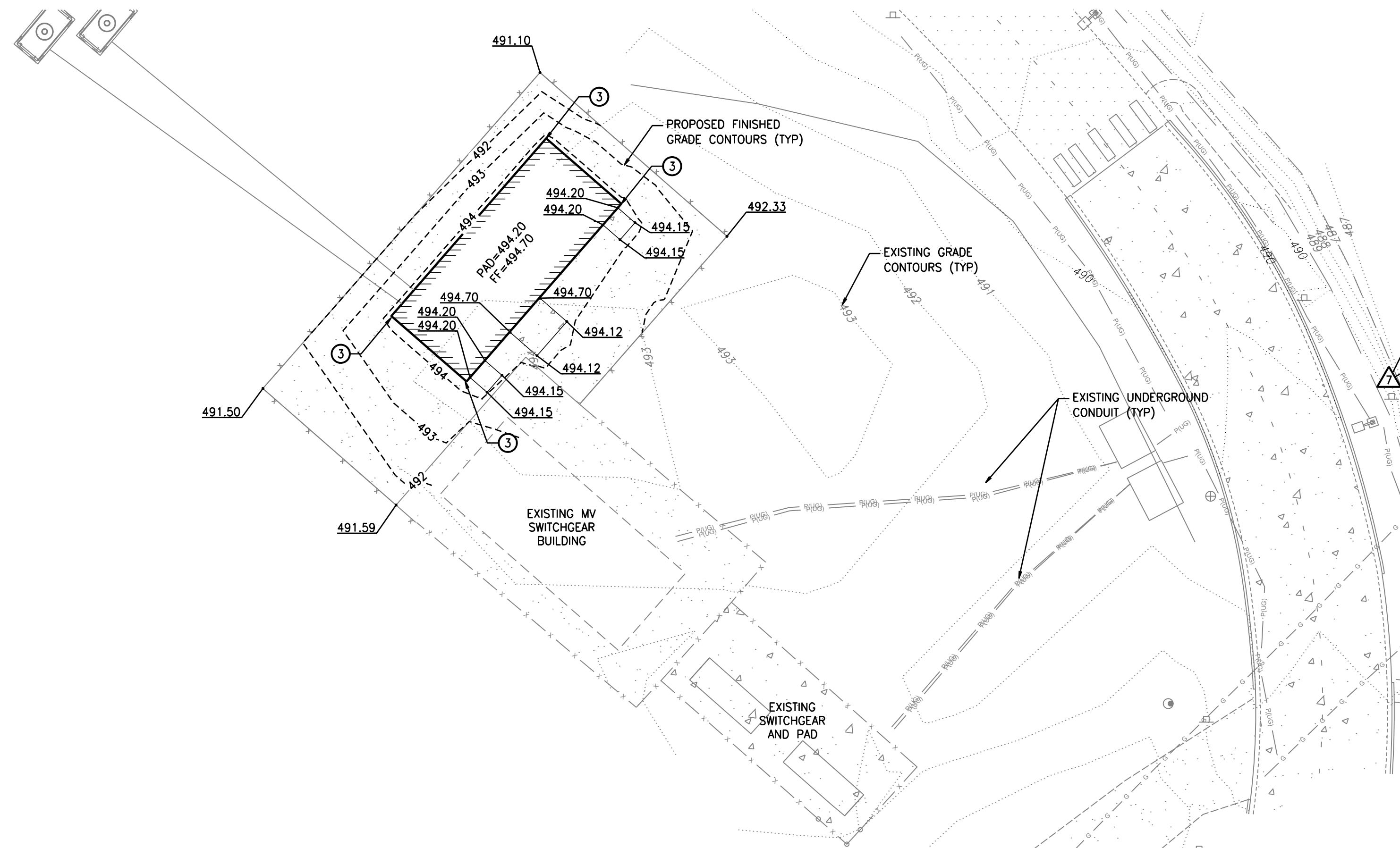
SOUTH GRADING & DRAINAGE PLAN FOR CENTERIS VOLTAGE PARK

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'



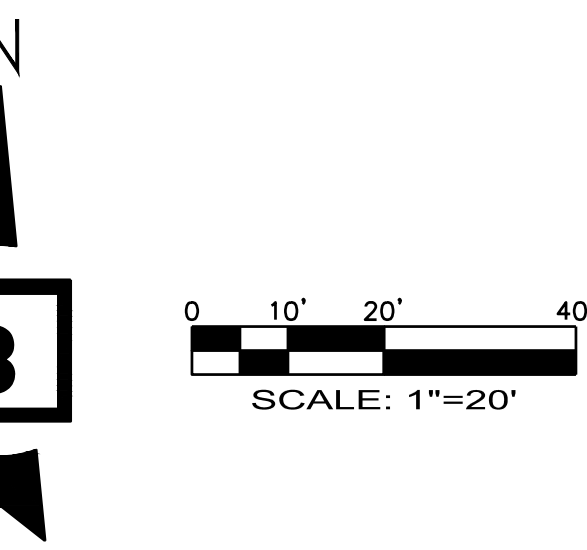
VOLTAGE PARK - SUB-STATION

SCALE: 1" = 20'

No.	Date	By	Appr.	Revision
8	10/17/2024	KDM	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
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City of Puyallup
Development & Planning Services
Engineering Planning
Public Works

Centeris Voltage Park



GRADING GENERAL NOTES

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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 AC 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 AC 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	STORM STRUCTURES	STORM STRUCTURES
<p>SD8 CB TYPE 1L - 28" X 32" STD. GRATE 8" SPILL CONTROL TEE N: 671323.96 E: 1198212.98 RIM=506.11 IE=502.17 (8" W)</p>	<p>SD14 SDCO - 8" N: 671223.00 E: 1198066.31 RIM=507.47 IE=504.80 (8" S) IE=488.97 (8" S) IE=497.03 (8" W)</p>	<p>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)</p>
<p>SD9 SDCO - 8" N: 671223.00 E: 1198058.80 RIM=499.55 IE=496.88 (8" E) IE=496.88 (8" W)</p>	<p>SD15 SDCO - 8" N: 671223.00 E: 1197997.26 RIM=492.68 IE=490.00 (8" E) IE=490.00 (8" W)</p>	<p>SD22 SDCO - 8" N: 671223.00 E: 1197931.15 RIM=489.72 IE=488.67 (8" E) IE=480.40 (8" W)</p>
<p>SD10 EXISTING CB N: 671327.48 E: 1198142.47 RIM=500.31 IE=497.23 (8" E) IE=497.23 (12" N)</p>	<p>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)</p>	<p>SD23 SDCO - 8" N: 671223.00 E: 1197926.15 RIM=482.98 IE=480.30 (8" E) IE=480.30 (8" W)</p>
<p>SD12 CB TYPE 2 - 48" SOLID COVER N: 671237.17 E: 1197889.17 RIM=480.32 IE=477.06 (8" S) IE=468.26 (12" W)</p>	<p>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)</p>	
<p>SD13 EXISTING CB N: 671236.79 E: 1198167.80 RIM=507.60 IE=502.72 (6" E)</p>	<p>SD19 EXISTING CB N: 671237.20 E: 1197866.26 RIM=479.65 IE=465.47 (12" E)</p>	

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.

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

APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

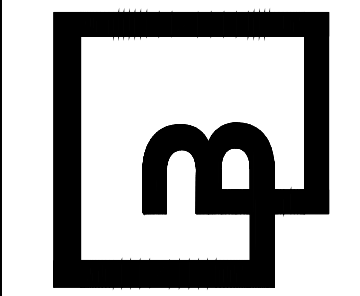
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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



Scale:	Horizontal	1" = 20'	Vertical	N/A
Designed	KDM	Checked	CMV	Approved
Drawn	KDM	Checked	CMV	Approved
Date	10/17/24			

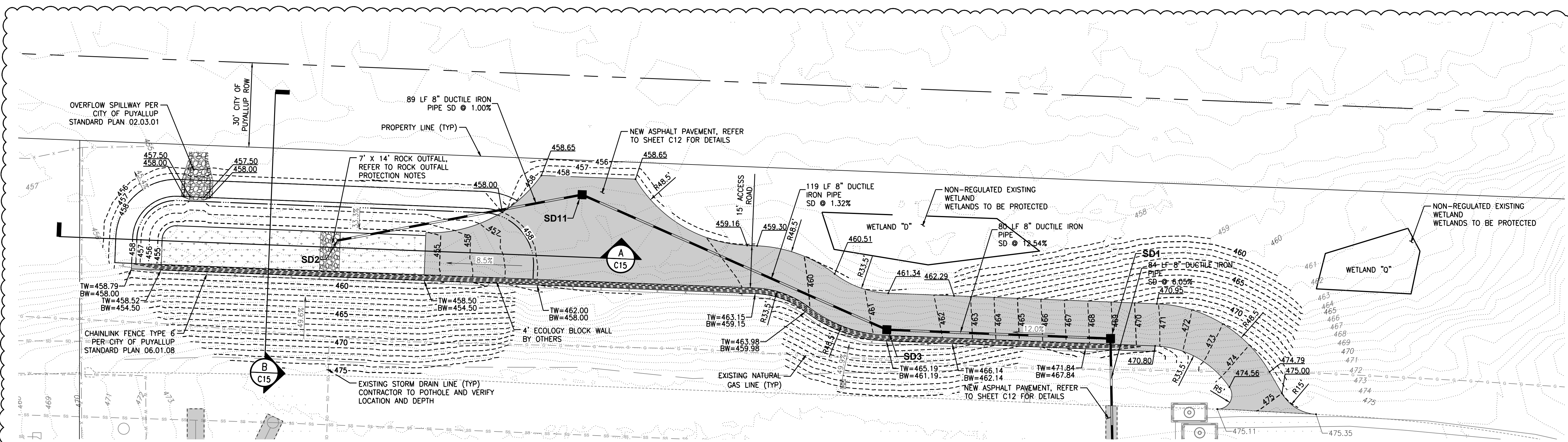
Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com



Job Number: 18111
Sheet: C14 of 22

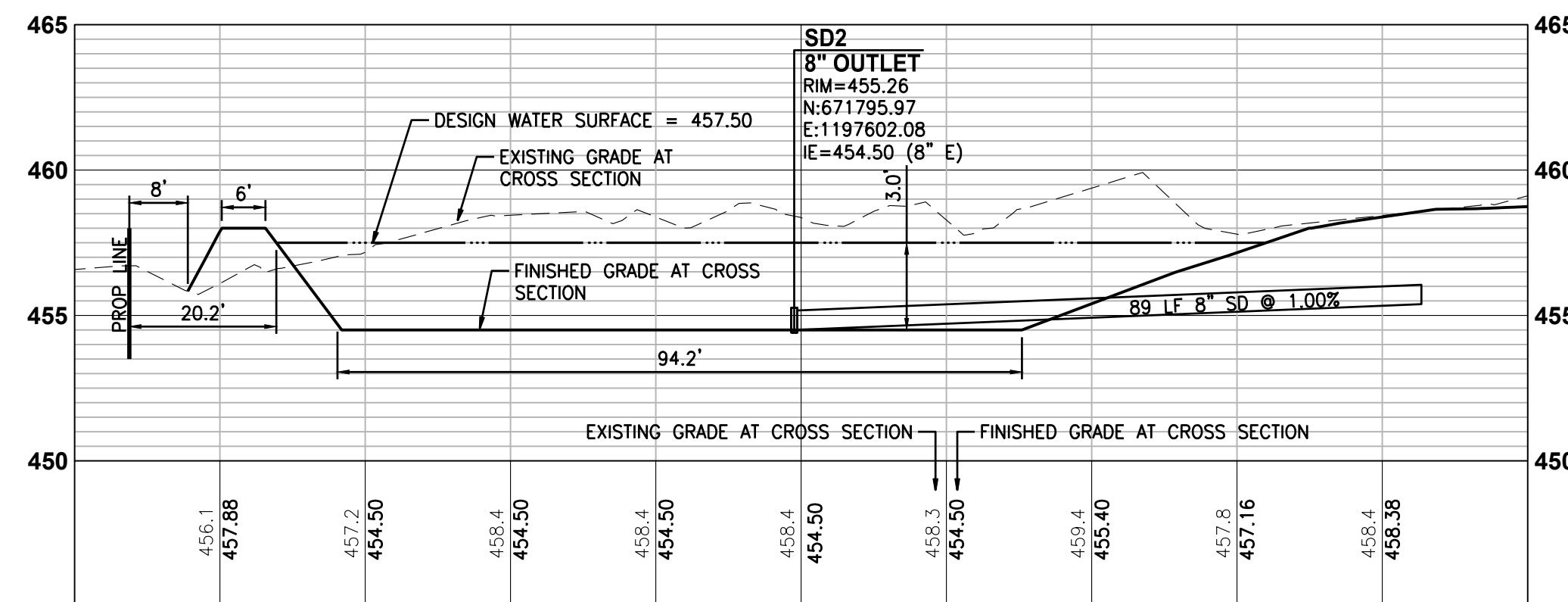
NORTH UTILITY YARD INFILTRATION POND FOR CENTERIS VOLTAGE PARK

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



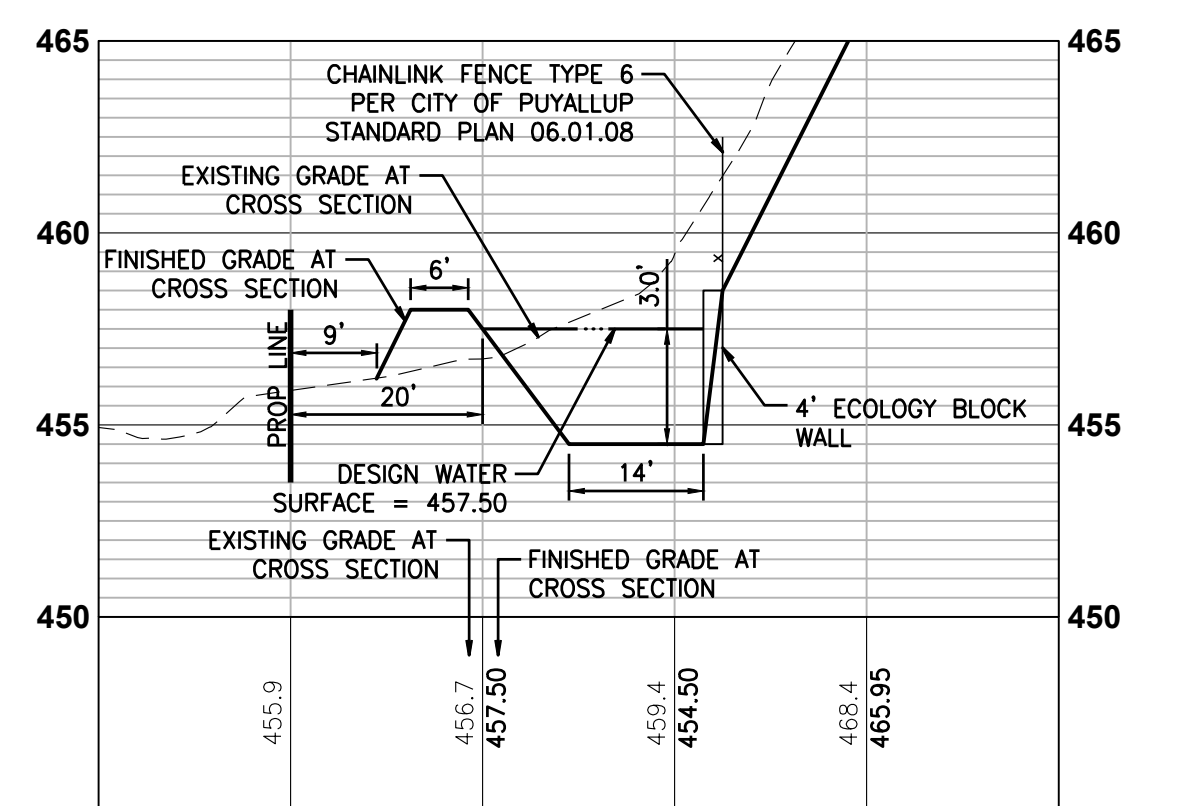
VOLTAGE PARK - NORTH UTILITY YARD POND

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'

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)
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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.
- ALL SPOT ELEVATIONS SHOWN ARE TO FINISHED SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT) UNLESS OTHERWISE NOTED.
 TW - TOP OF WALL
 BW - BOTTOM OF WALL
- GEOTECHNICAL INVESTIGATION 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.

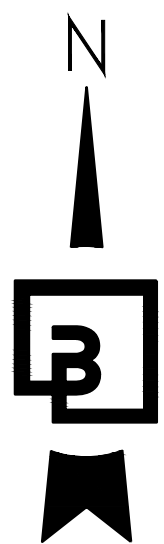
UTILITY CONFLICT NOTE:

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



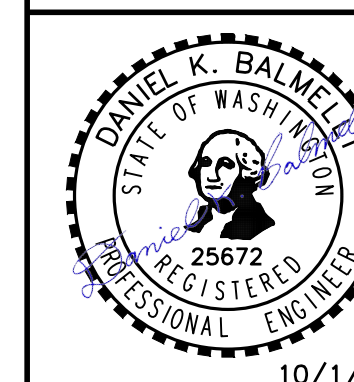
Scale:
 Horizontal 1" = 20'
 Vertical 1" = 5'

Designed: KDM
 Drawn: KDM
 Checked: CMV
 Approved: DKB
 Date: 10/1/24

No.	Date	By	Appr.	Revision
8	10/1/2024	KDM	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	CMV	CMV	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	1ST REVIEW COMMENTS (CITY)

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



10/1/24

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

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

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (AREA DRAIN)

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature] DATE: 02.01.22

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature] DATE: 02.01.05

CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

STORM DRAIN CLEANOUT

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature] DATE: 02.01.09

CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

DOWNSPOUT SPLASHBLOCK

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature] DATE: 02.05.05

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

PIPE TRENCHING BEDDING AND BACKFILL

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature] DATE: 06.01.01

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

DETENTION POND EMERGENCY OVERFLOW

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature] DATE: 02.03.01

ROOF DRAIN DOWNSPOUT CONNECTION

SCALE: NOT TO SCALE

NOTES:
1. FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE SHALL BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEET, FLEXIBLE PIPE MAY BE USED.
2. A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC TO ANY OTHER PIPE TYPES.
3. THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE DOWNSPOUTS ARE INSTALLED ON THE BUILDING. THE SITEMARK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.
4. IF NECESSARY, ADJUST FOOTING TO ALLOW DOWNSPOUT TO BE INSTALLED TIGHT AGAINST BUILDING.

UTILITY CONFLICT NOTE:
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APPROVED
BY: [Signature] 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.

Revision	No.	Date	By	Appr.
1	10/1/2024	KDM	CMV	CMV
2	5/20/2024	KDM	CMV	CMV
3	5/21/2024	KDM	CMV	CMV
4	6/27/2024	KDM	CMV	CMV
5	7/22/2024	KDM	CMV	CMV
6	7/30/2024	KDM	CMV	CMV
7	8/17/2024	KDM	CMV	CMV
8	10/1/2024	KDM	CMV	CMV

City of Puyallup
Development & Planning Services
— DESIGN PERMIT —
Building Planning
Engineering Public Works
Permit Public Works

GRADING & DRAINAGE DETAILS

CENTERIS VOLTAGE PARK

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

DANIEL K. BARMETER
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
25672
10/1/24

Scale: Horizontal N/A, Vertical N/A

Designed: KDM
Drawn: KDM
Checked: CMV
Approved: DKB
Date: 10/1/24

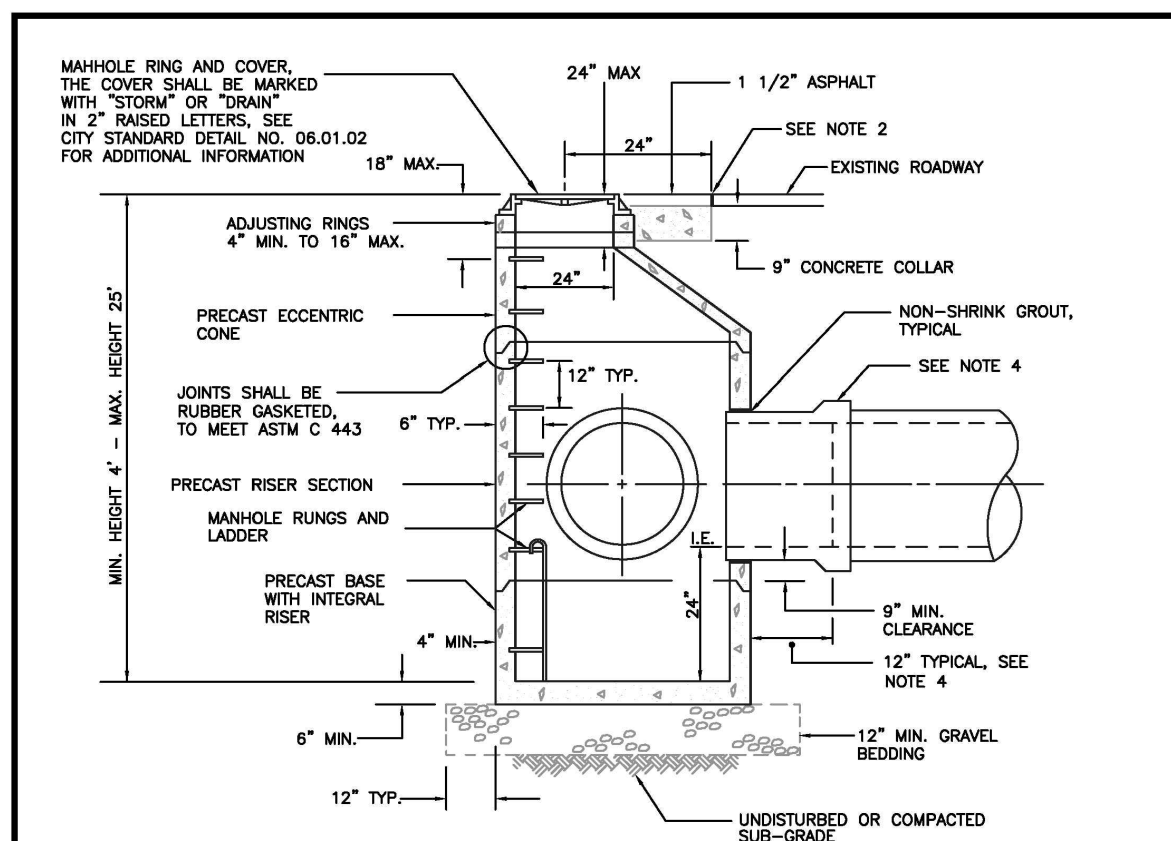
Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com

APPROVED
BY: [Signature] CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE: _____

Job Number: 18111
Sheet: C16 of 22

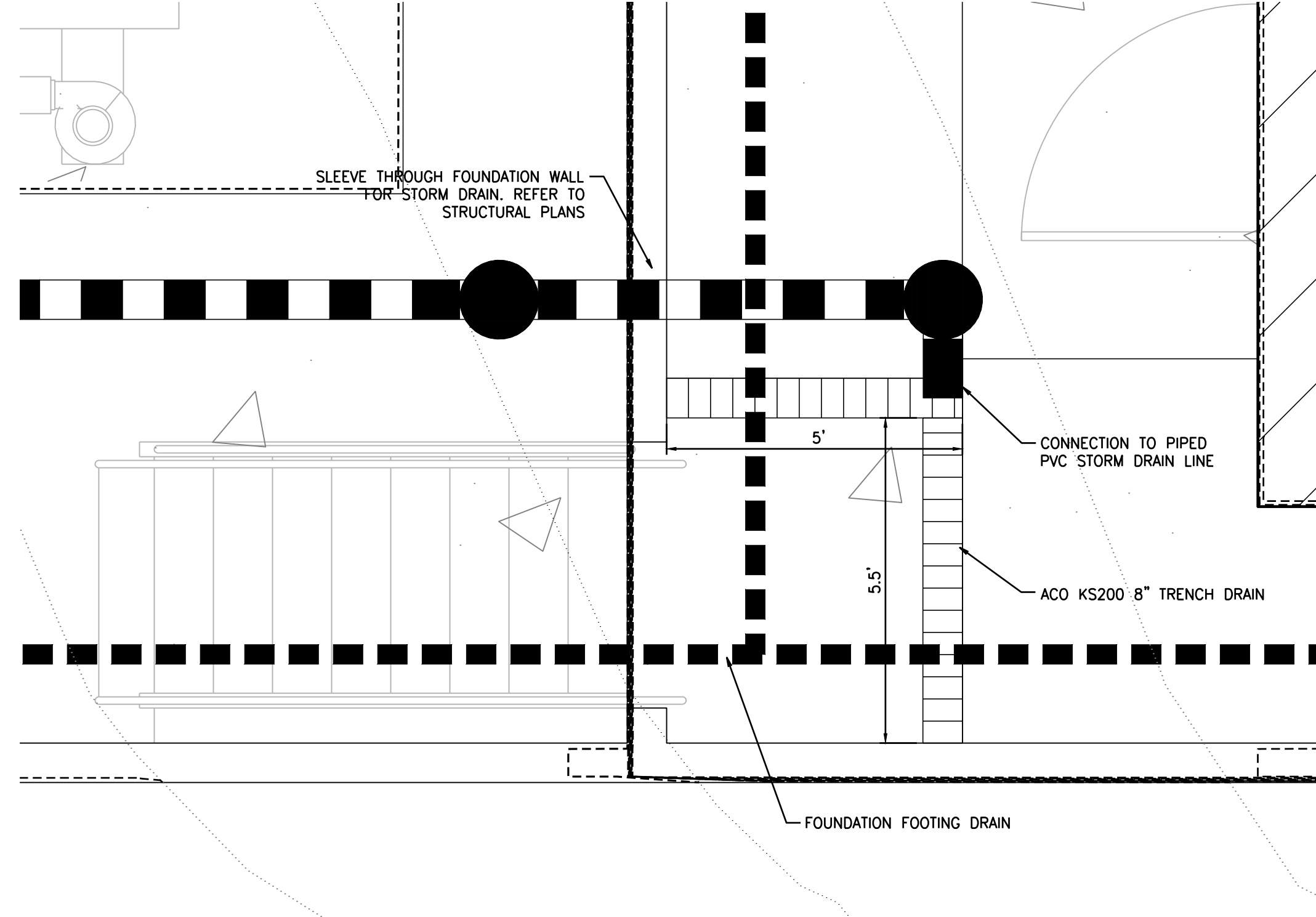
GRADING & DRAINAGE DETAILS FOR CENTERIS VOLTAGE PARK

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



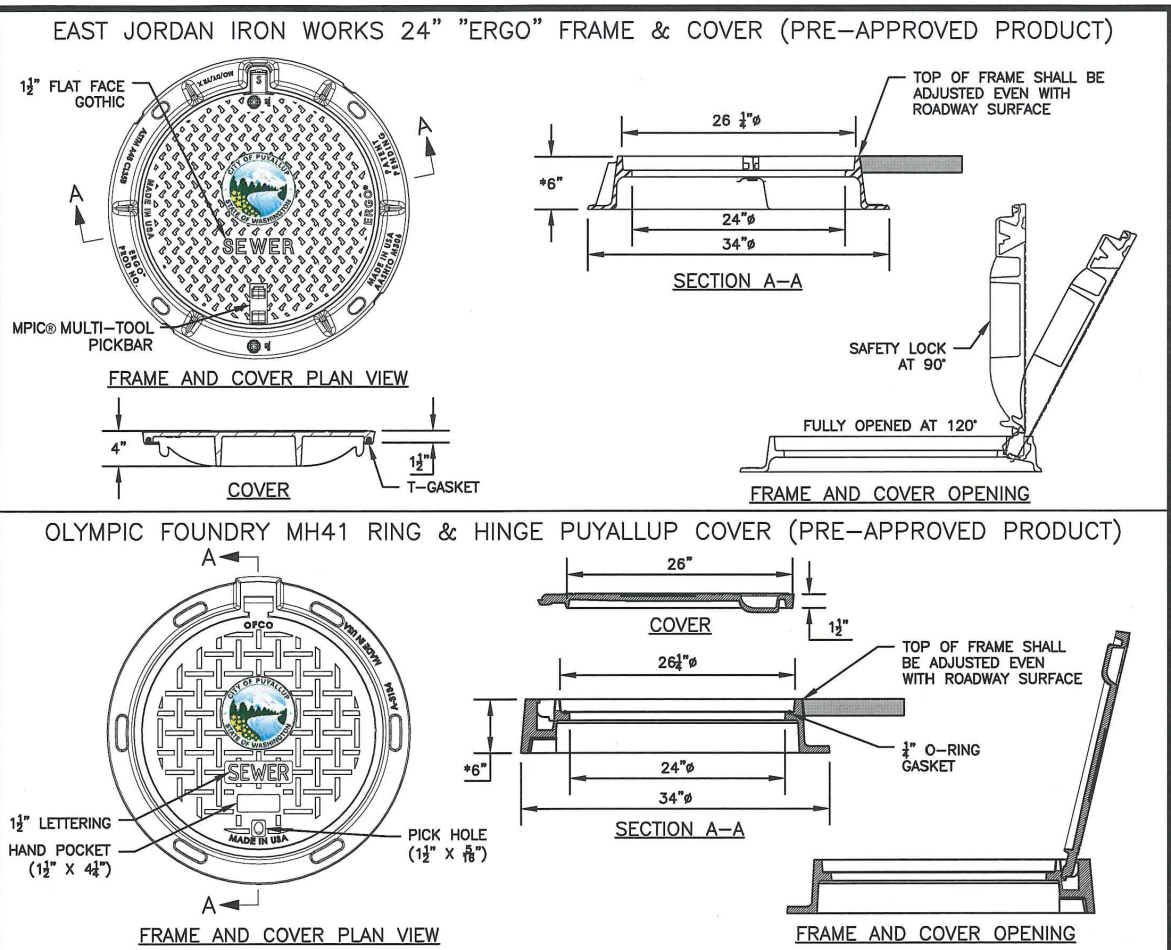
- NOTES:**
1. THE CONSTRUCTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7-05 AND ASTM C 443.
 2. THE FACE OF HEAT LINE CUTS IN EXISTING ASPHALT PAVEMENT SHALL BE TACK COATED AND THE TOP OF THE JOINT SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT.
 3. PRECAST RISER SECTION OR PRECAST BASE WITH INTEGRAL RISER SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS WITH A MINIMUM WALL THICKNESS OF 2". THE SIZE OF THE KNOCKOUT SHALL BE EQUAL TO THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS. THE MAXIMUM HOLE SIZE IS 36" FOR A 48" MANHOLE, 42" FOR A 54" MANHOLE, 60" FOR A 72" MANHOLE, AND 84" FOR A 90" MANHOLE.
 4. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN 12" OF EACH CONNECTION TO A MANHOLE. THE CONNECTION OF CONCRETE OR DUCTILE IRON PIPE TO A MANHOLE SHALL BE CEMENT MORTARED. DUCTILE IRON PIPE SHALL BE SEALED WITH MASTIC AT THE CONNECTION POINT PRIOR TO BEING MORTARED. THE CONNECTION OF PVC PIPE TO A MANHOLE SHALL UTILIZE A MANHOLE COUPLING (SAND COLLAR) WITH A RUBBER GASKET.
 5. THE MANHOLE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2 INCH RAISED LETTERS. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.02.
 6. MANHOLE STEP AND LADDER SHALL CONFORM TO CITY STANDARD DETAILS NO. 06.01.04 AND 06.01.05.

CITY OF PUYALLUP	STORM SEWER MANHOLE
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS CITY OF PUYALLUP, WASHINGTON 1825 72ND AVENUE SOUTH, SUITE 115, KENT, WA 98032 PHONE: 253.833.3100 FAX: 253.833.3101	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE APPROVED: 06/01/24 CITY STANDARD: 02.01.01



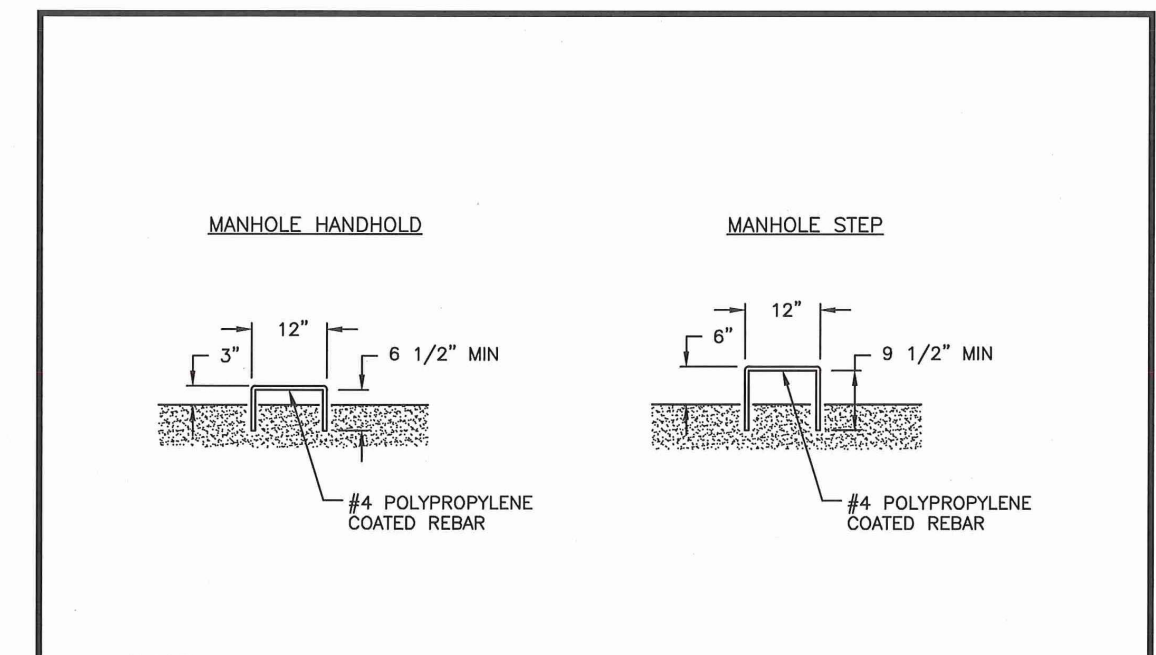
TYPICAL TRENCH DRAIN CONFIGURATION AT LANDING

SCALE: NOT TO SCALE



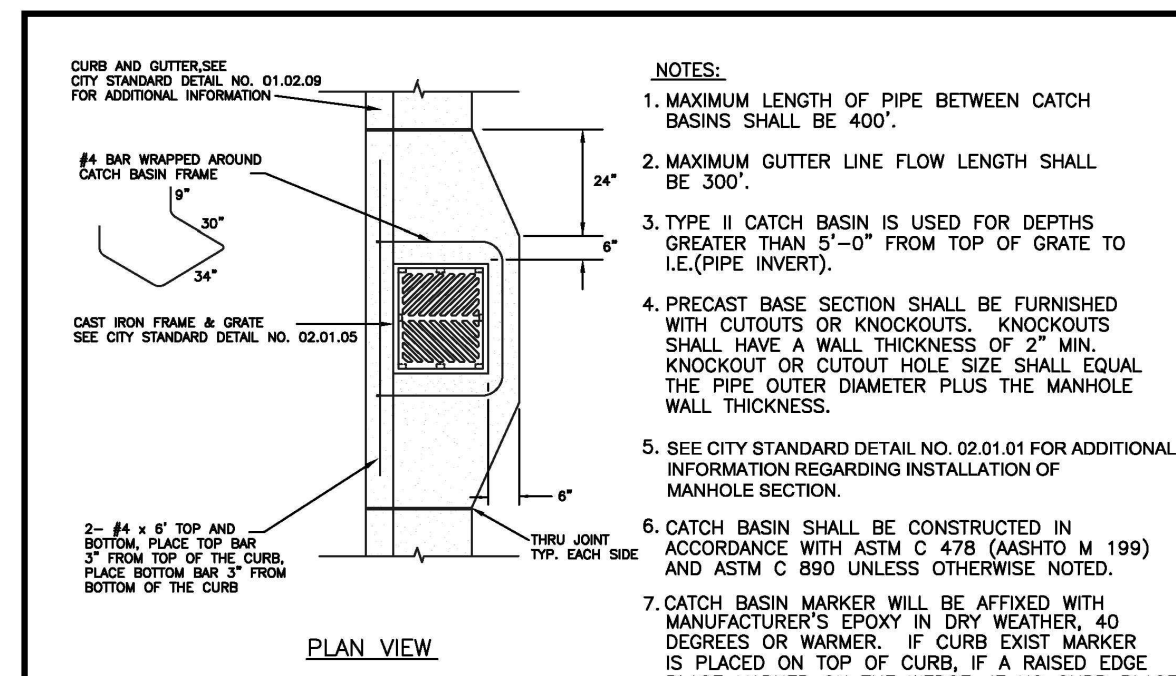
- NOTES:**
1. EAST JORDAN IRON WORKS 24" "ERGO" and OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER ARE PRE-APPROVED PRODUCTS AND SHALL BE USED FOR PUBLICLY-OWNED INFRASTRUCTURE. ALL OTHERS REQUIRE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
 2. MANHOLE FRAME AND COVERS SHOULD NOT BE LOCATED IN PEDESTRIAN PATHWAYS (E.G. SIDEWALKS, CROSSWALKS, ETC.) WHERE EXISTING OR PROPOSED CONDITIONS REQUIRE A MANHOLE FRAME AND COVER TO BE INSTALLED WITHIN A PEDESTRIAN PATHWAY; THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT.
 3. NON-ROOFING FIT FOR MANHOLE COVERS.
 4. CASTING TO BE SHOT BLASTED AND FREE FROM SURFACE SAND AND SCALE.
 5. CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY HARD SPOTS, SHRINK HOLES, WARP, OR ANY OTHER DEFECTS WHICH COULD IMPAIR SERVICEABILITY.
 6. CASTINGS SHALL BE UNCOATED.
 7. FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM".
 8. INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONCOMING TRAFFIC.
 9. THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.
 10. REPAIR OR DEFECTS BY WELDING, OR BY THE USE OF "SMOOTH-ON" OR SIMILAR MATERIAL WILL NOT BE PERMITTED.
 11. MANHOLE RING AND COVER SHALL BE FREE OF POROSITY, SHRINK CAVITIES, COLD SHOTS OR CRACKS OR ANY SURFACE DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.
 12. FRAME HEIGHT MAY BE 4" FOR OVERLAYS AND PAVEMENT REHABILITATION PROJECTS, WITH WRITTEN APPROVAL BY THE CITY ENGINEER.

CITY OF PUYALLUP	MANHOLE FRAME AND COVER
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS CITY OF PUYALLUP, WASHINGTON 1825 72ND AVENUE SOUTH, SUITE 115, KENT, WA 98032 PHONE: 253.833.3100 FAX: 253.833.3101	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE APPROVED: 06/01/24 CITY STANDARD: 06.01.02



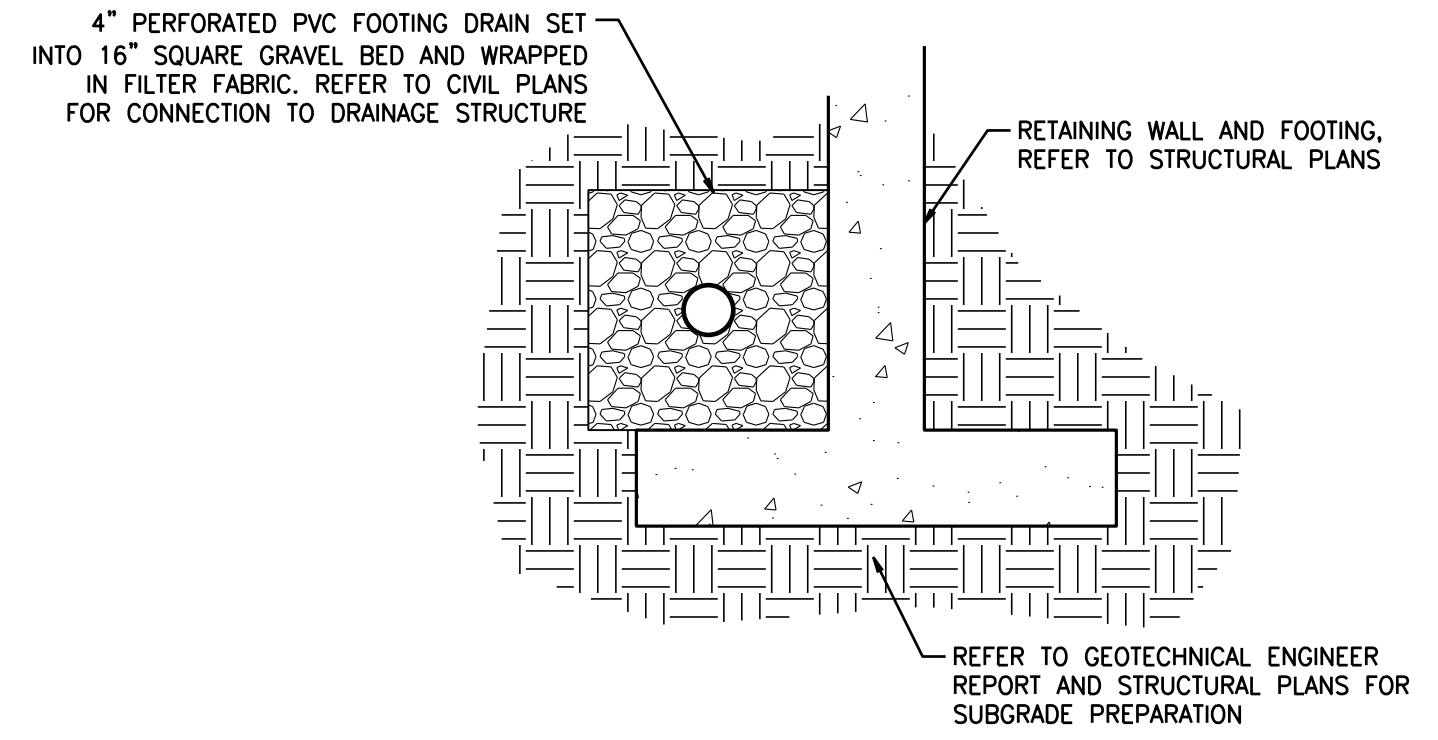
- NOTES:**
1. MANHOLE STEPS AND HANDHOLDS SHALL BE POLYPROPYLENE COATED GRADE 60 REBAR CONFORMING TO ASTM C-478, D-4101, A-615 AND AASHTO M-199.
 2. PREFABRICATED LADDERS SHALL BE MADE OF REBAR AND ENCASED IN POLYPROPYLENE AFTER FABRICATION.
 3. STEPS MAY BE INSTALLED: CAST IN PLACE OR DRIVEN INTO PREFORMED HOLES WITH THE CONCRETE CURED TO 3,000 PSI MINIMUM, OR BY DRILLING TWO ONE INCH DIAMETER HOLES, 3-3/4" DEEP, 13" O.C. APPLY NON-SHRINK GROUT AROUND BARBED ENDS AND DRIVE TO FULL INSERTION.
 4. PENETRATION OF THE OUTER WALL OF A STRUCTURE WITH A LEG OF A STEP OR LADDER SHALL NOT OCCUR. STEPS AND LADDER RUNGS SHALL BE SPACED AT 12 INCHES AND SHALL BE VERTICALLY ALIGNED.
 5. STEPS, HANDHOLDS, LADDER RUNGS AND FASTENINGS SHALL BE DESIGNED FOR A MINIMUM LIVE LOAD OF 300 LBS AND A PULL OUT FORCE OF 1,000 LBS.
 6. STEPS, HANDHOLDS, AND LADDER PARTS SHALL BE FREE OF SPLINTERS, SHARP EDGES, BURRS OR PROJECTIONS WHICH MAY CAUSE HAZARDS.
 7. REQUESTS TO USE STEPS, HANDHOLDS AND LADDERS MADE FROM NON-CORROSIVE MATERIALS SUCH AS STAINLESS STEEL AND PLASTIC MAY BE ACCEPTED AFTER REVIEW AND APPROVAL BY THE CITY. GALVANIZED STEEL WILL NOT BE PERMITTED IN SANITARY SEWER AND STORM SEWER MANHOLES AND STRUCTURES.

CITY OF PUYALLUP	MANHOLE STEP AND HANDHOLD
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS CITY OF PUYALLUP, WASHINGTON 1825 72ND AVENUE SOUTH, SUITE 115, KENT, WA 98032 PHONE: 253.833.3100 FAX: 253.833.3101	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE APPROVED: 06/01/24 CITY STANDARD: 06.01.03



- NOTES:**
1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
 2. MAXIMUM GUTTER LINE FLOW LENGTH SHALL BE 300'.
 3. TYPE II CATCH BASIN IS USED FOR DEPTHS GREATER THAN 5'-0" FROM TOP OF GRATE TO I.E. (PIPE INVERT).
 4. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUT OR CUTOUT HOLE SIZE SHALL EQUAL THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS.
 5. SEE CITY STANDARD DETAIL NO. 02.01.01 FOR ADDITIONAL INFORMATION REGARDING INSTALLATION OF MANHOLE SECTION.
 6. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
 7. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXIST MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

CITY OF PUYALLUP	CATCH BASIN TYPE II
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS CITY OF PUYALLUP, WASHINGTON 1825 72ND AVENUE SOUTH, SUITE 115, KENT, WA 98032 PHONE: 253.833.3100 FAX: 253.833.3101	DESIGNED BY: [Signature] CHECKED BY: [Signature] DATE APPROVED: 06/01/24 CITY STANDARD: 02.01.04



RETAINING WALL FOOTER DRAIN

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 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: _____

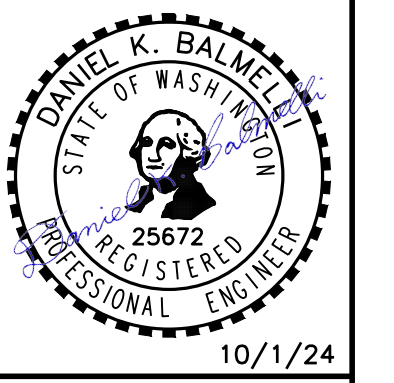
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

NO.	DATE	BY	CHK.	APPR.	REVISION
8	10/1/2024	KDM	CMV	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	CMV	CMV	CMV	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	CMV	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	CMV	1ST REVIEW COMMENTS (CITY)

GRADING & DRAINAGE DETAILS

CENTERIS VOLTAGE PARK

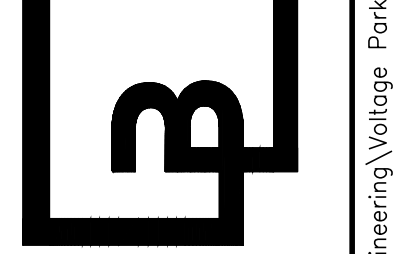
For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
 9675 SE 36TH ST, SUITE 115
 MERCER ISLAND, WA 98040



Scale: Horizontal N/A, Vertical N/A

Designed: KDM
 Drawn: KDM
 Checked: CMV
 Approved: DKB
 Date: 10/1/24

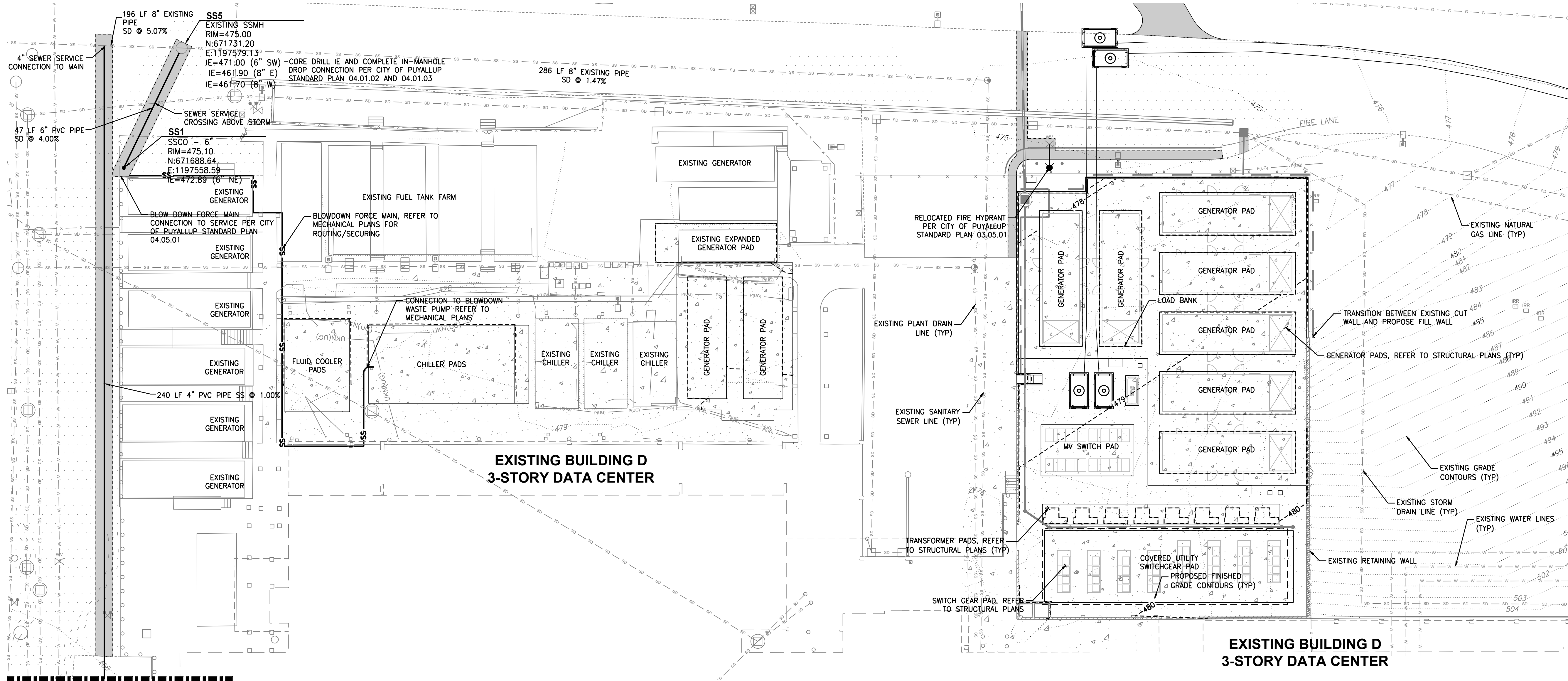
Barghausen Consulting Engineers, Inc.
 1825 72nd Avenue South
 Kent, WA 98032
 425.251.6222 barghausen.com



Job Number: 18111
 Sheet: C17 of 22

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

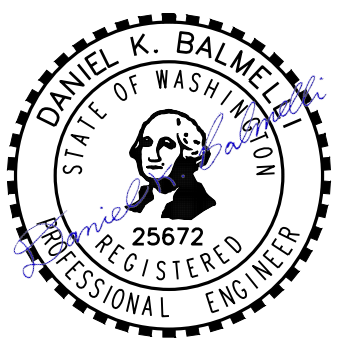


SEE SHEET C20
VOLTAGE PARK - NORTH UTILITY YARD
SCALE: 1" = 20'

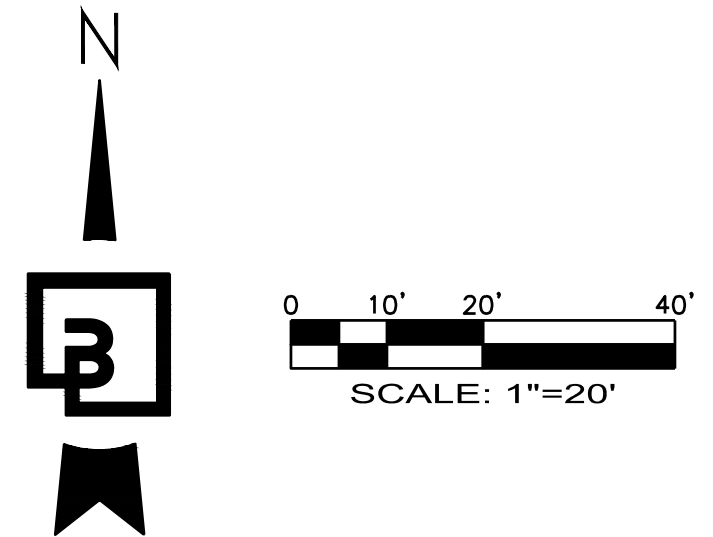
NORTH UTILITY YARD REVISIONS	
No.	Revision
8	10/11/2024 KDM CMV
7	9/17/2024 KDM CMV
6	7/30/2024 CMV
5	7/22/2024 KDM CMV
4	6/27/2024 KDM CMV
3	5/21/2024 KDM CMV
2	5/20/2024 KDM CMV
1	4/19/2024 KDM CMV

NORTH UTILITY PLAN			
No.	Date	By	Appr.

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



10/1/24
Scale: Horizontal 1" = 20', Vertical N/A
Designed: KDM, Drawn: KDM, Checked: CMV, Approved: DKB, Date: 10/1/24



APPROVED

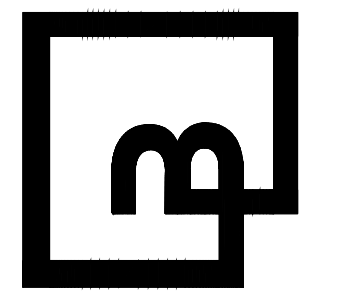
BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE: _____

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.

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

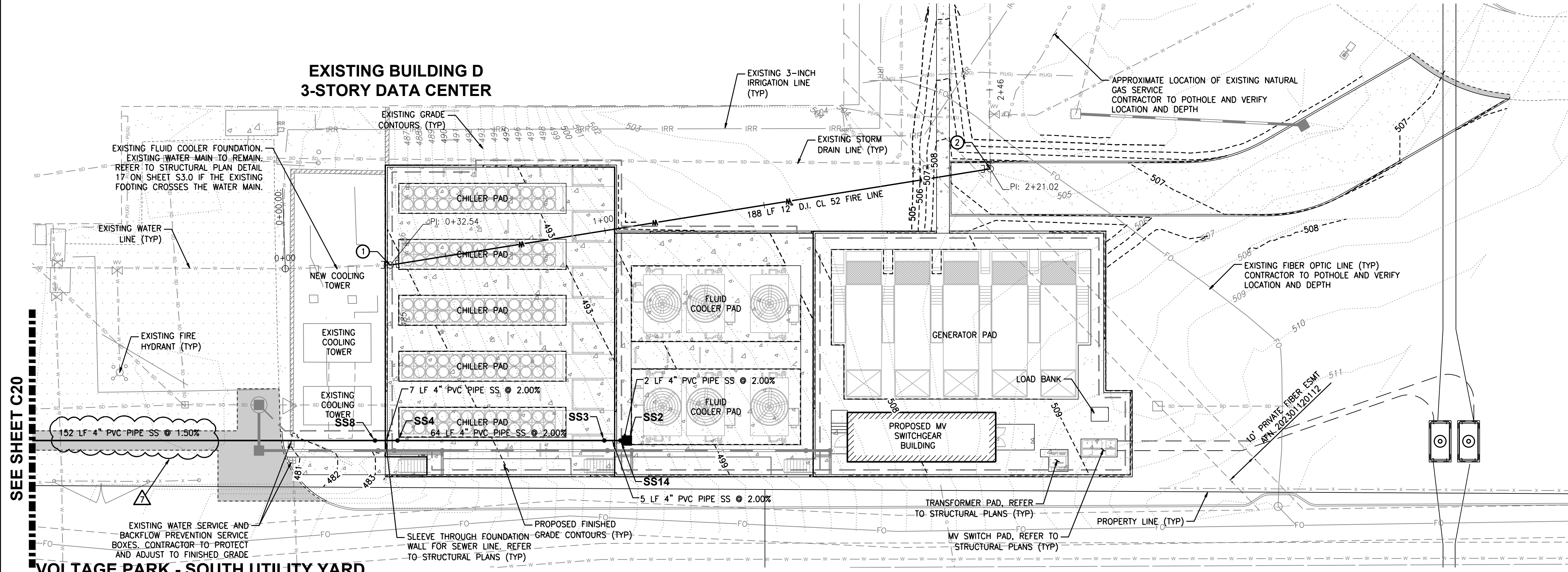
Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number: 18111
Sheet: C18 of 22

SOUTH 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

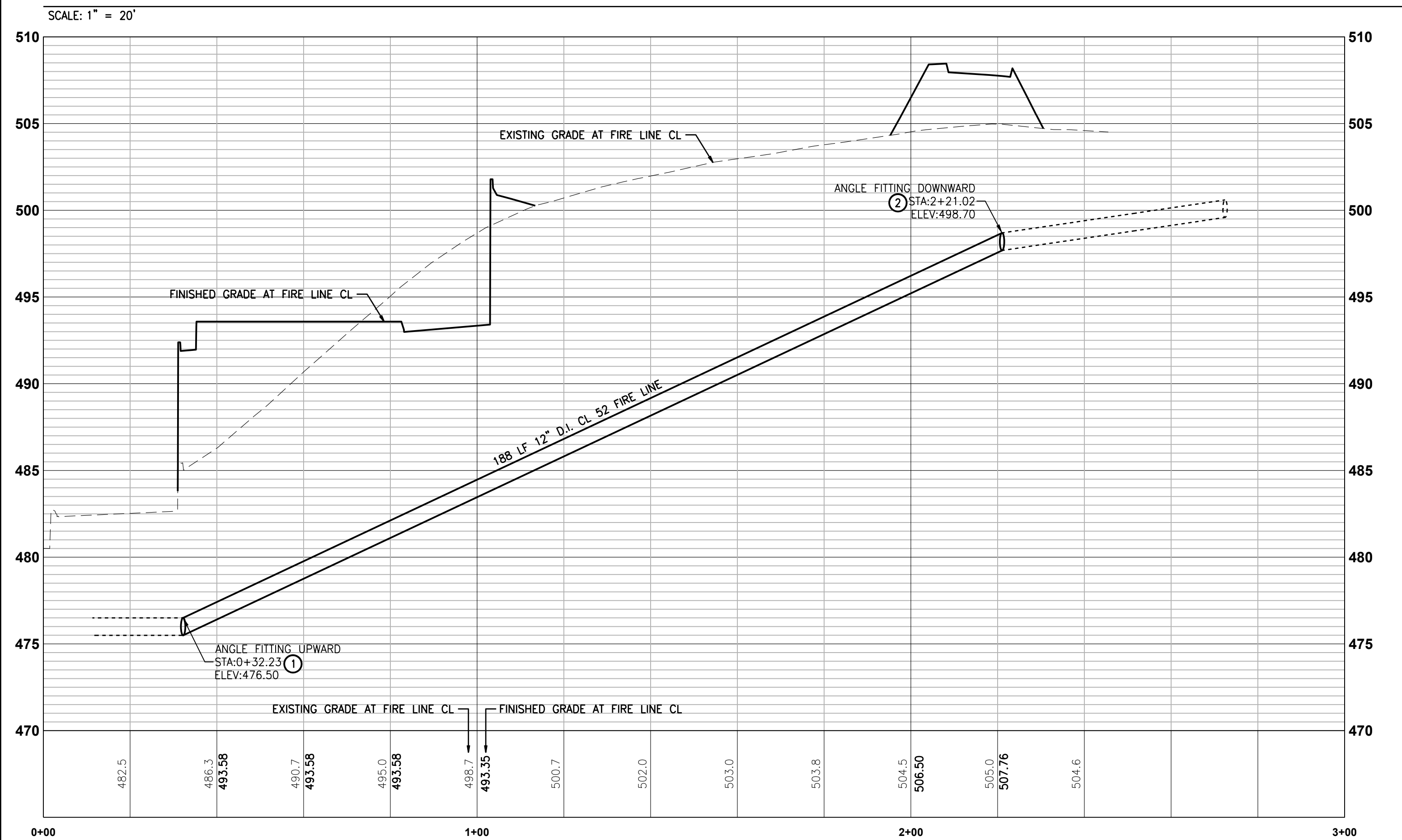


SANITARY SEWER STRUCTURE	
SS2	CB TYPE 1 - 24\"/>
SS3	SSCO - 4\"/>
SS4	SSCO - 4\"/>
SS8	SSCO - 4\"/>
SS14	SSCO - 4\"/>

NORTH POND REVISIONS CITY COMMENTS	
8	10/1/2024 KDM CMV
7	9/17/2024 KDM CMV
6	7/30/2024 CMV CMV
5	7/22/2024 KDM CMV
4	6/27/2024 KDM CMV
3	5/21/2024 KDM CMV
2	5/20/2024 KDM CMV
1	4/19/2024 KDM CMV

City of Puyallup
Development & Planning Services
3800 PUYALLUP
Engineering Public Works

South Utility Plan
CENTERIS VOLTAGE PARK



WATER FITTING KEYNOTES

CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING 12\"/>

①
N: 671280.55
E: 1197929.80
1-12\"/>

CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING 12\"/>

②
N: 671310.47
E: 1198115.86
1-12\"/>

VOLTAGE PARK - SOUTH UTILITY YARD FIRE LINE PROFILE

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

UTILITY CONFLICT NOTE:

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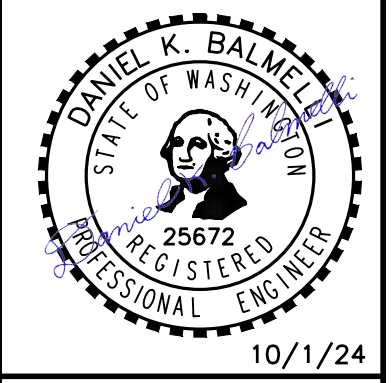
**CALL BEFORE YOU DIG:
1-800-424-5555 OR "811"**

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: _____

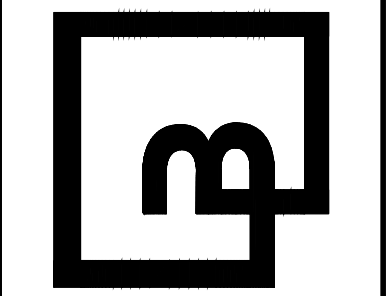
For: **BENAROYA CAPITAL, LLC**
CENTERIS DATA CENTERS
9675 SE 36TH ST, SUITE 115
MERCER ISLAND, WA 98040



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

Designed KDM
Drawn KDM
Checked CMV
Approved DKB
Date 10/1/24

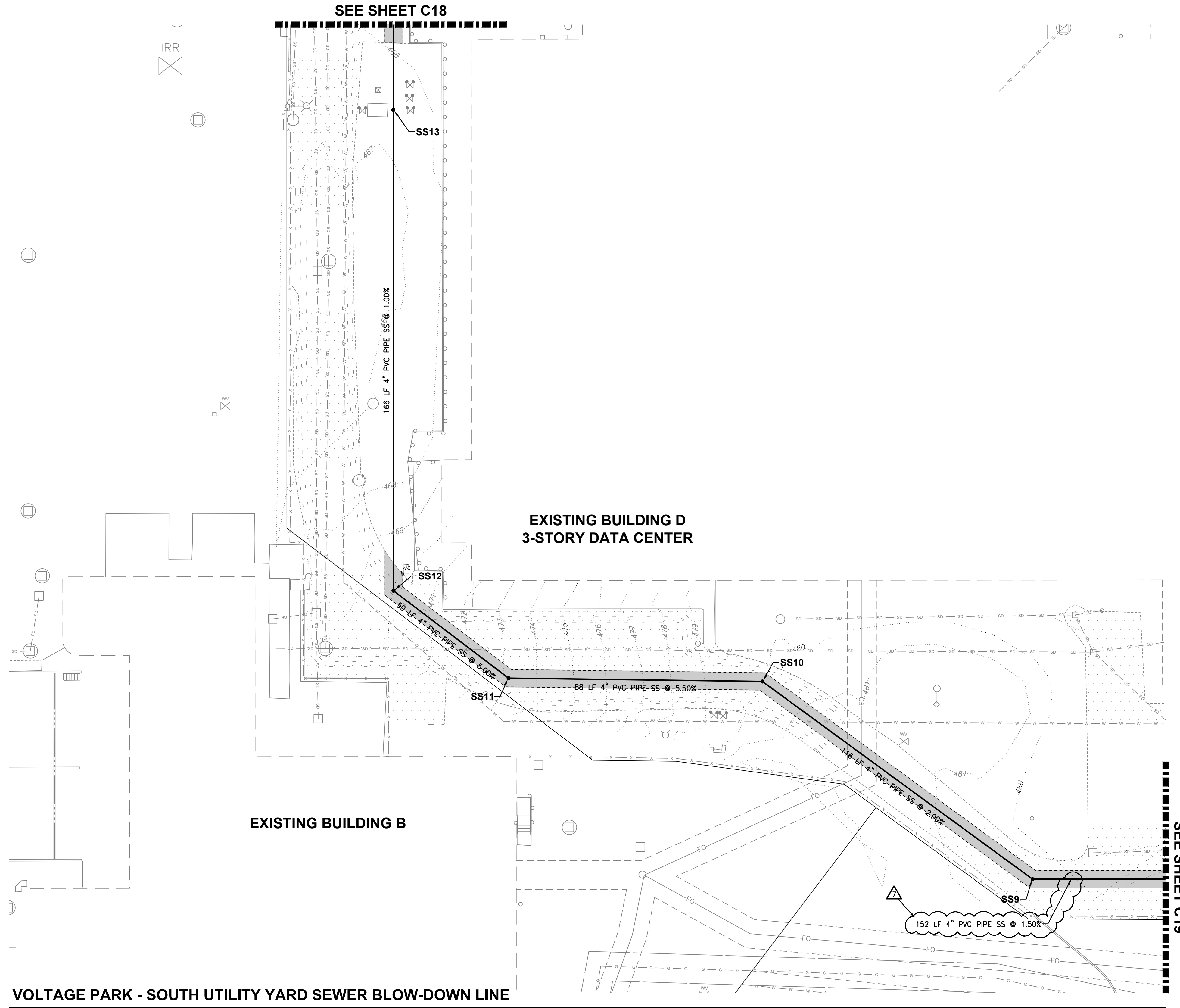
Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 **barghausen.com**



Job Number: **18111**
Sheet: **C19** of **22**

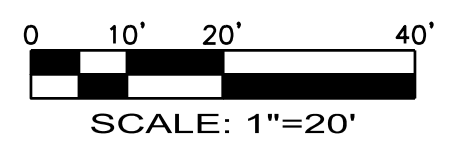
SOUTH UTILITY YARD SEWER BLOW-DOWN PLAN FOR **CENTERIS VOLTAGE PARK**

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



VOLTAGE PARK - SOUTH UTILITY YARD SEWER BLOW-DOWN LINE
SCALE: 1" = 20'

SANITARY SEWER STRUCTURE	
SS9	SSCO - 4" N: 671226.12 E: 1197772.85 RIM=480.36 IE=474.31 (4" IN E) IE=474.31 (4" OUT NW)
SS10	SSCO - 4" N: 671294.51 E: 1197679.37 RIM=480.00 IE=471.99 (4" IN SE) IE=471.99 (4" OUT W)
SS11	SSCO - 4" N: 671295.65 E: 1197591.57 RIM=473.14 IE=467.16 (4" IN E) IE=467.16 (4" OUT NW)
SS12	SSCO - 4" N: 671325.86 E: 1197551.74 RIM=470.00 IE=464.66 (4" IN SE) IE=464.66 (4" OUT N)
SS13	SSCO - 4" N: 671492.19 E: 1197551.71 RIM=467.46 IE=463.00 (4" IN S) IE=463.00 (4" OUT N)

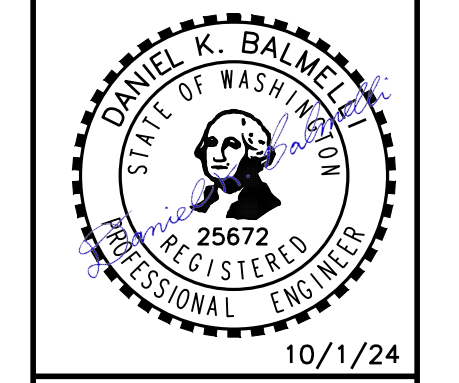


NORTH POND REVISIONS CITY COMMENTS	
8	10/1/2024 KDM CMV
7	9/17/2024 KDM CMV
6	7/30/2024 CMV
5	7/22/2024 KDM CMV
4	6/27/2024 KDM CMV
3	5/21/2024 KDM CMV
2	5/20/2024 KDM CMV
1	4/19/2024 KDM CMV
No.	Date
	By
	Ckd.
	Appr.

City of Puyallup
Development & Planning Services
BARRY PERMUTT
Building Planning
Engineering Public Works
Fire Parks

**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 KDM
Drawn KDM
Checked CMV
Approved DKB
Date 10/1/24

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

Job Number 18111
Sheet C20 of 22

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

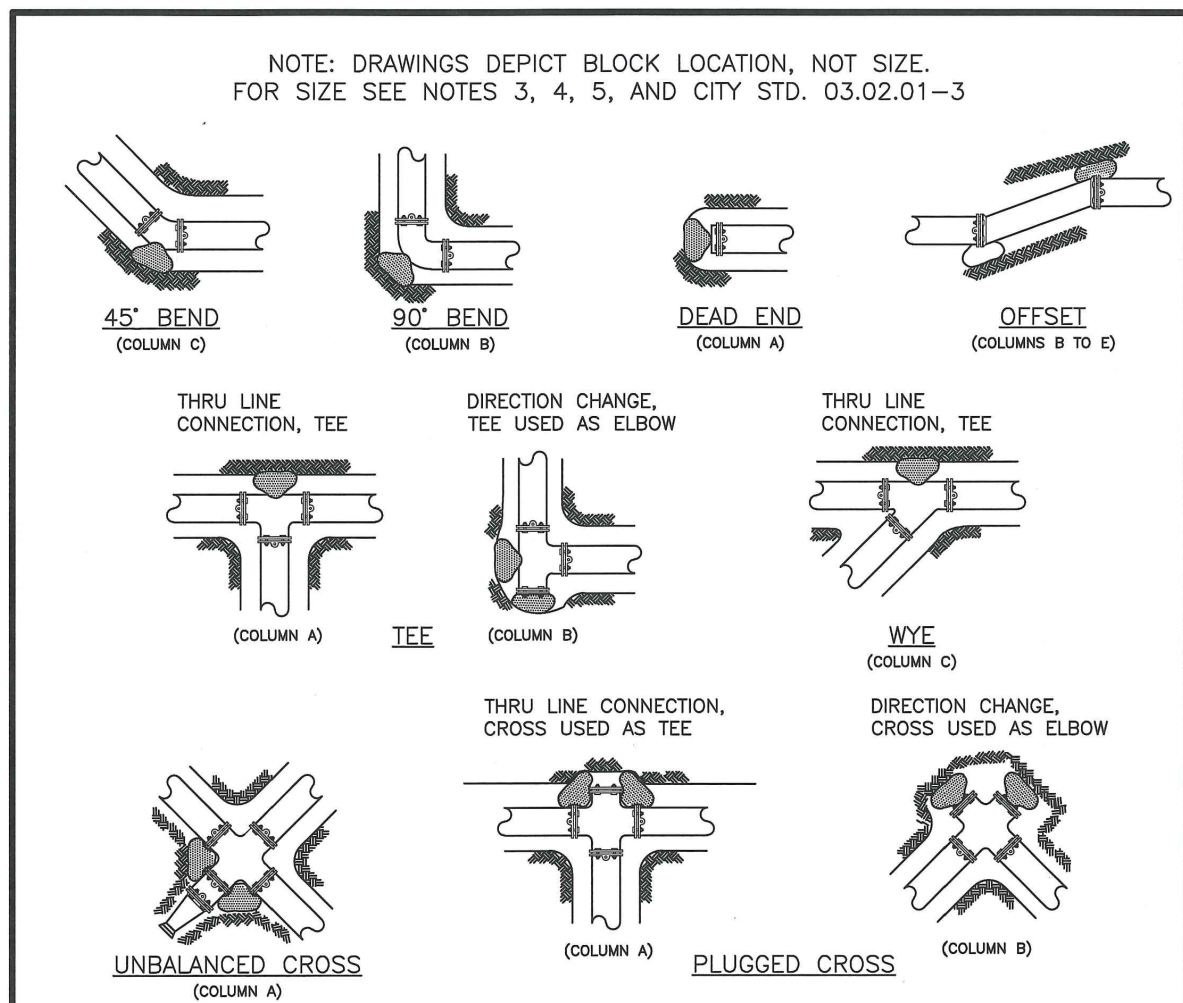
APPROVED
BY: CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE:

UTILITY CONFLICT NOTE:
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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



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

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

HORIZONTAL THRUST BLOCKING

DATE: 2/15/2019

CITY STANDARD: 03.02.01-1

TABLE 2: THRUST AT FITTINGS AT 200 PSI

SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	200	3,140	4,440	2,405	1,225	615
6"	200	7,070	9,995	5,410	2,760	1,385
8"	200	12,565	17,770	9,820	4,905	2,465
10"	200	19,635	27,770	15,030	7,660	3,850
12"	200	28,275	39,985	21,640	11,030	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,285	71,085	38,470	19,615	9,855

TABLE 3: BEARING VALUE OF SOIL

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

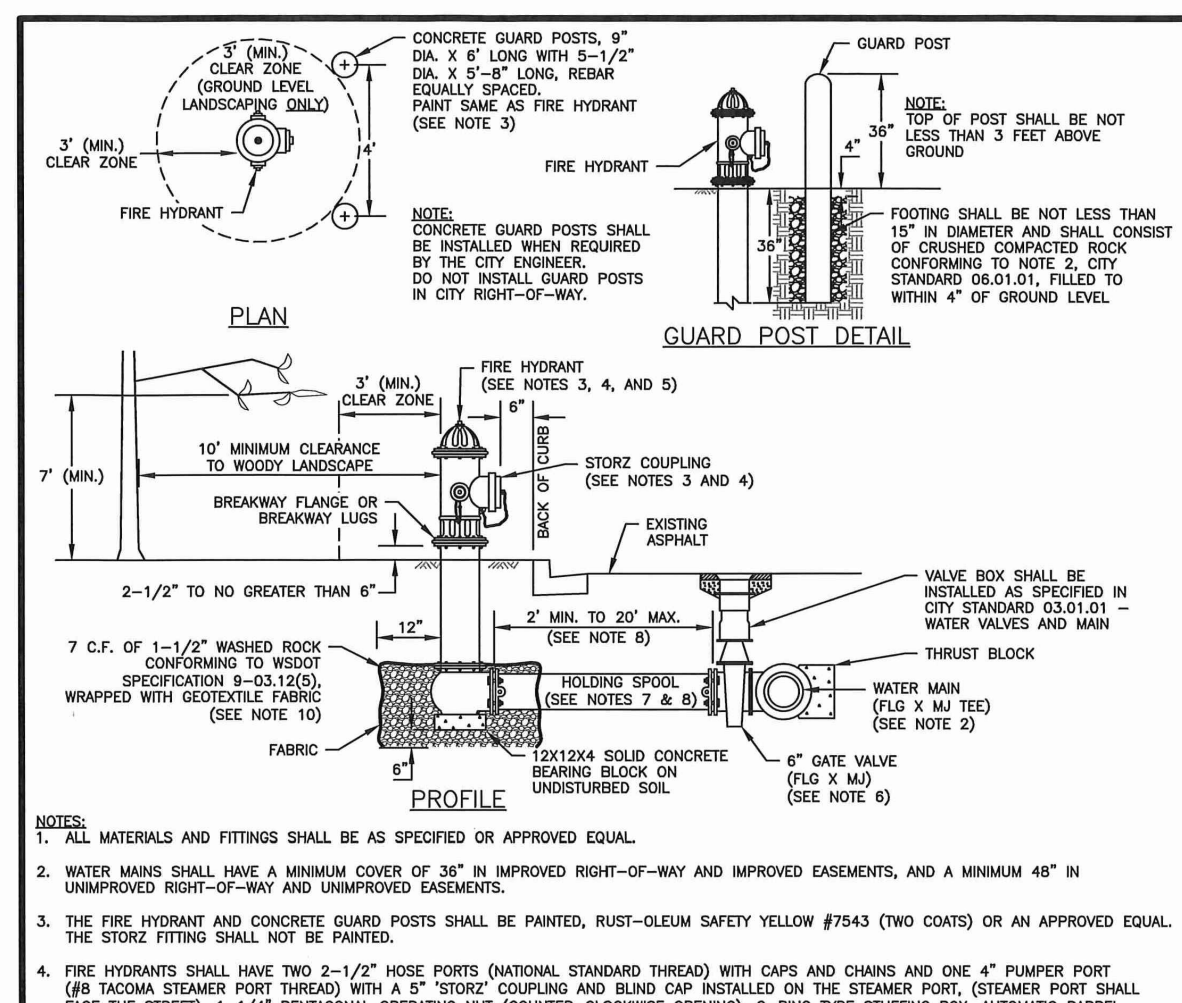
- SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION.
- NOTES:**
- TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI.
 $39,985 \times \frac{300}{200} = 59,978$ LBS
 - TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):
SEE TABLE 3, BEARING VALUE OF SOIL.
EXAMPLE: FOR SAND AND GRAVEL, BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF.
 $59,978 \text{ LBS} \div 3,000 \text{ LBS/SF} = 20 \text{ SF OF AREA}$
 - CONTRACTOR TO PROVIDE BLOTTING ADEQUATE TO WITHSTAND FULL TEST PRESSURE
 - AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
 - NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUS OR CAP.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

THRUST BLOCKING TABLE

DATE: 2/15/2019

CITY STANDARD: 03.02.01-3



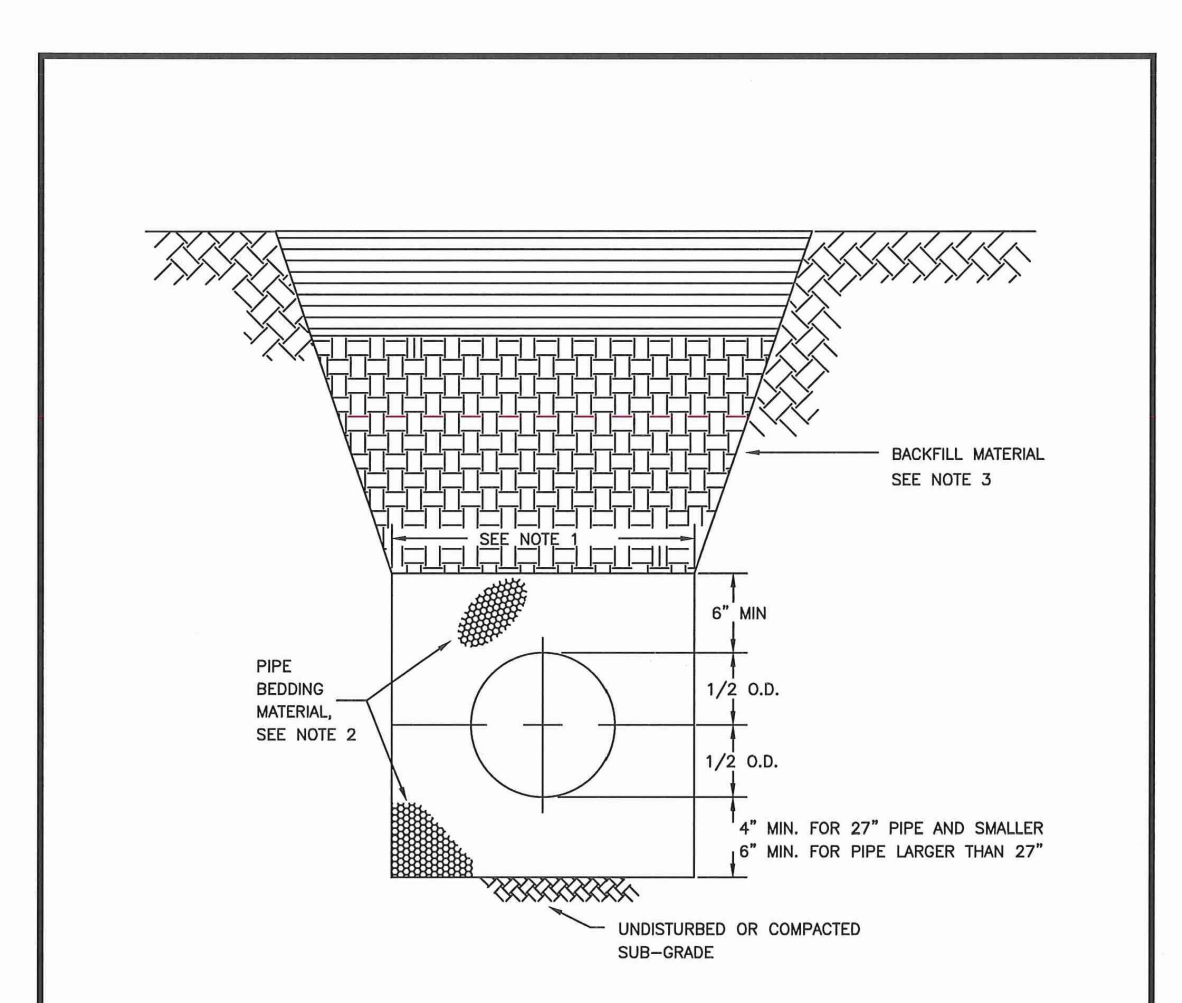
- NOTES:**
- ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
 - WATER MAINS SHALL HAVE A MINIMUM COVER OF 24" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
 - THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, RUST-CUREM SAFETY YELLOW #7543 (TWO COATS) OR AN APPROVED EQUAL. THE STORAGE FITTING SHALL NOT BE PAINTED.
 - FIRE HYDRANTS SHALL HAVE TWO 2-1/2" HOSE PORTS (NATIONAL STANDARD THREAD) WITH CAPS AND CHAINS AND ONE 4" PUMPER PORT (8" TACOMA STEAMER PORT THREAD) WITH A 5" STORAGE 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 DRIVING AND 9-1/4" MAIN VALVE OPENING. 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 AWWA 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.
 - FIRE HYDRANTS SHALL BE AWK, CLOW MEDALLION, M & H 1295, MUELLER CENTURION, OR WATERLOO.
 - GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE-MOUNTED, NON-RISING STEM, 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.
 - THE HOLDING SPOOL SHALL BE A MECHANICAL-JOINT (M.J.) HOLDING SPOOL, WITH THE USE OF MEKA-LUG CONNECTORS OR APPROVED EQUAL WITH CLASS 52 DUCTILE IRON PIPE.
 - GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE-MOUNTED, NON-RISING STEM, 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.
 - A FLOODRESISTANT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.
 - A MINIMUM THREE FOOT (3') RADIUS UNOBSTRUCTED CLEAR ZONE (WORK AREA) SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. ADDITIONALLY, NO WOODY LANDSCAPE SHALL BE PLANTED WITHIN TEN FEET (10') OF ANY FIRE HYDRANT. OVERHANGING BRANCHES OF TREES ADJACENT TO HYDRANTS SHALL HAVE A MAINTAINED VERTICAL CLEARANCE OF SEVEN (7') FEET ABOVE FINISHED GRADE OF THE FIRE HYDRANT.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

FIRE HYDRANT ASSEMBLY

DATE: 1/17/2020

CITY STANDARD: 03.05.01

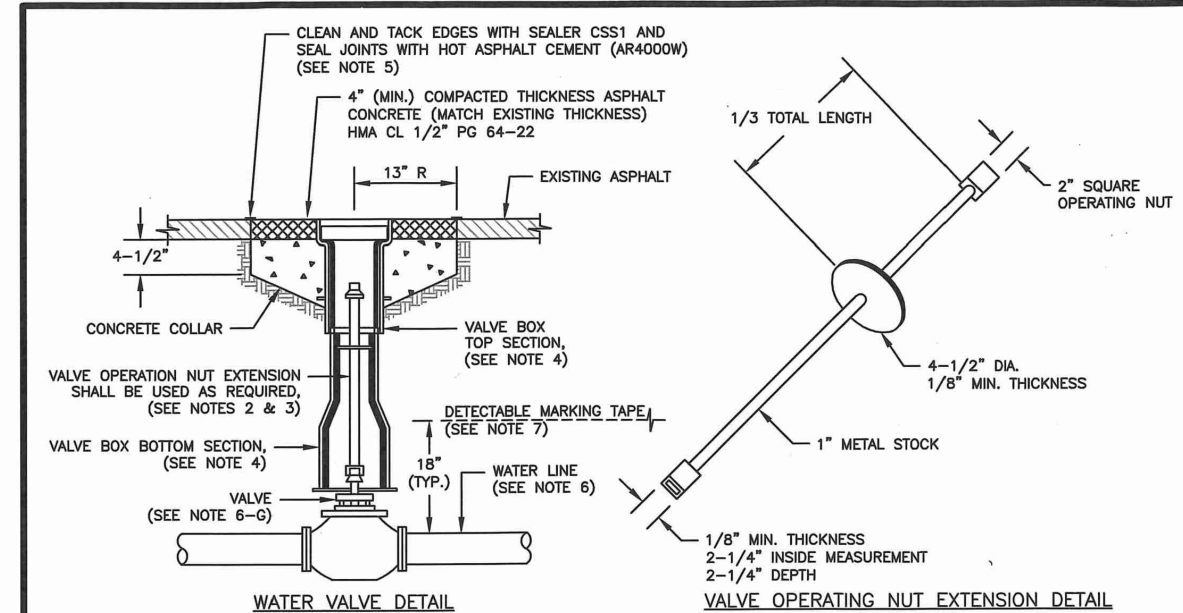


- TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
- BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
- GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

PIPE TRENCHING BEDDING AND BACKFILL

DATE: 06.01.01



- NOTES:**
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 24" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
 - VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE 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 0 INCHES TO 3 FEET BELOW FINISHED GRADE.
 - ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
 - VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE WARRIOR #440 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN AREAS, ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH LOCKING VALVE BOX COVER MODEL 8600 (PART# 08000220) OR APPROVED EQUAL.
 - NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
 - WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
 - DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE MORTAR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINDING SHALL BE MORE THAN 1/16" THICK FOR 2" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CENTER LINDING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
 - JOINTS SHALL BE TYTON HIGH-DEN DENS OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
 - BOLTS AND NUTS FOR FLANGED FITTINGS LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VALVETS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 193, 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 NS.
 - BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 183, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.
 - PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
 - ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.
 - 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.
 - RESILIENT SEATED WEDGE GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 300 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS. O-RING 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.
 - BUTTERFLY VALVES, BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.
 - DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.16.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

WATER VALVES AND MAINS

DATE: 1/10/2019

CITY STANDARD: 03.01.01

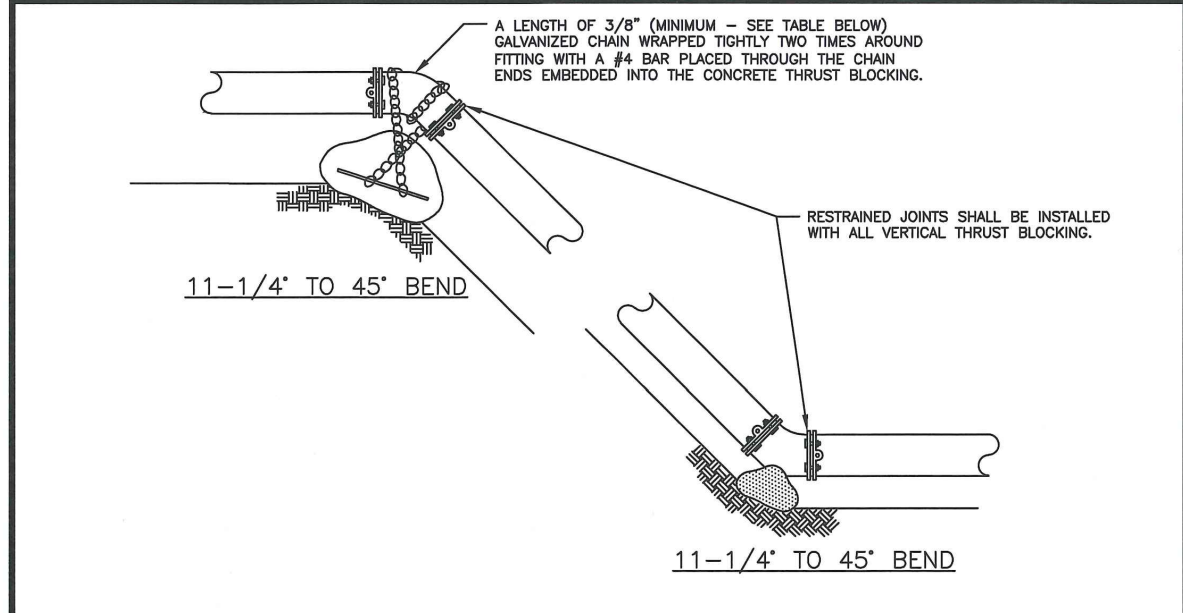


TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

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°	23	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	3.6		
		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.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

VERTICAL THRUST BLOCKING

DATE: 2/15/2019

CITY STANDARD: 03.02.01-2

NO.	DATE	BY	APPR.	REVISION
8	10/1/2024	KDM	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	CMV	CMV	CONCRETE SLAB ADDITION
5	7/22/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
4	6/27/2024	KDM	CMV	2ND REVIEW COMMENTS (CITY)
3	5/21/2024	KDM	CMV	SOUTH UTILITY YARD REVISIONS
2	5/20/2024	KDM	CMV	NORTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	1ST REVIEW COMMENTS (CITY)

UTILITY DETAILS

CENTERIS VOLTAGE PARK

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

10/1/24

Scale:	Horizontal	N/A
	Vertical	N/A
Designed: KDM	Drawn: KDM	Checked: CMV
Approved: DKB	Date: 10/1/24	

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

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: _____

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.

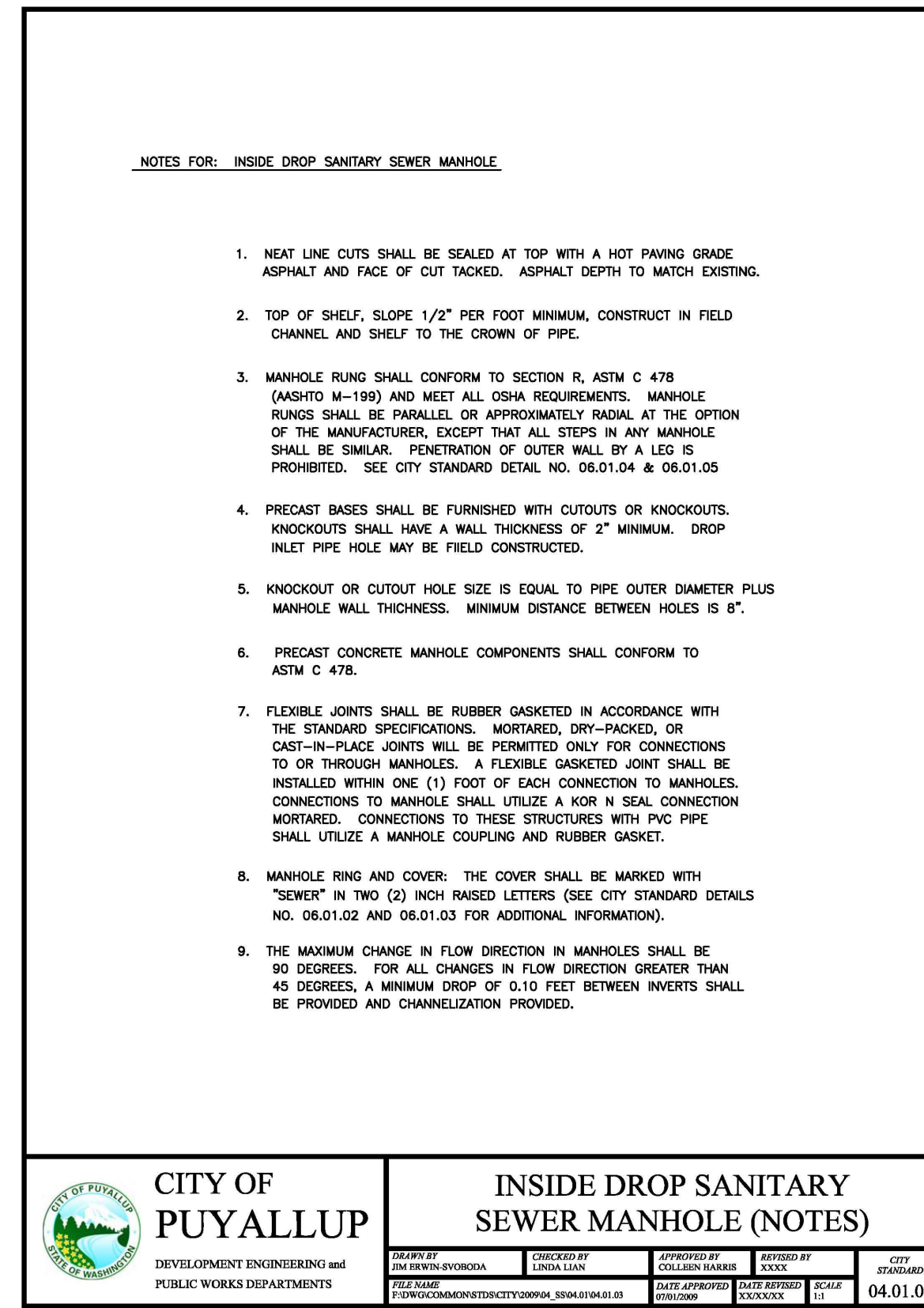
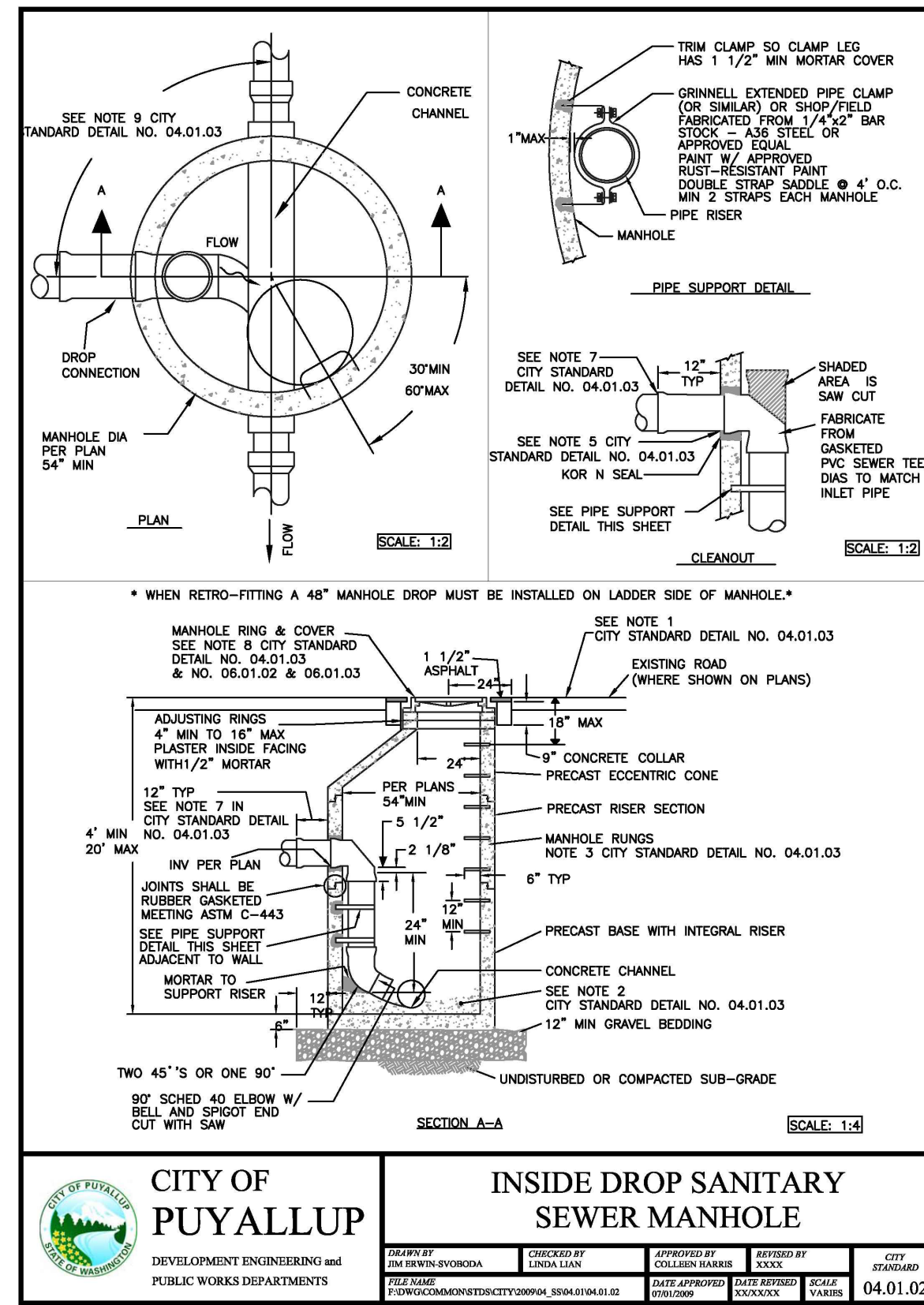
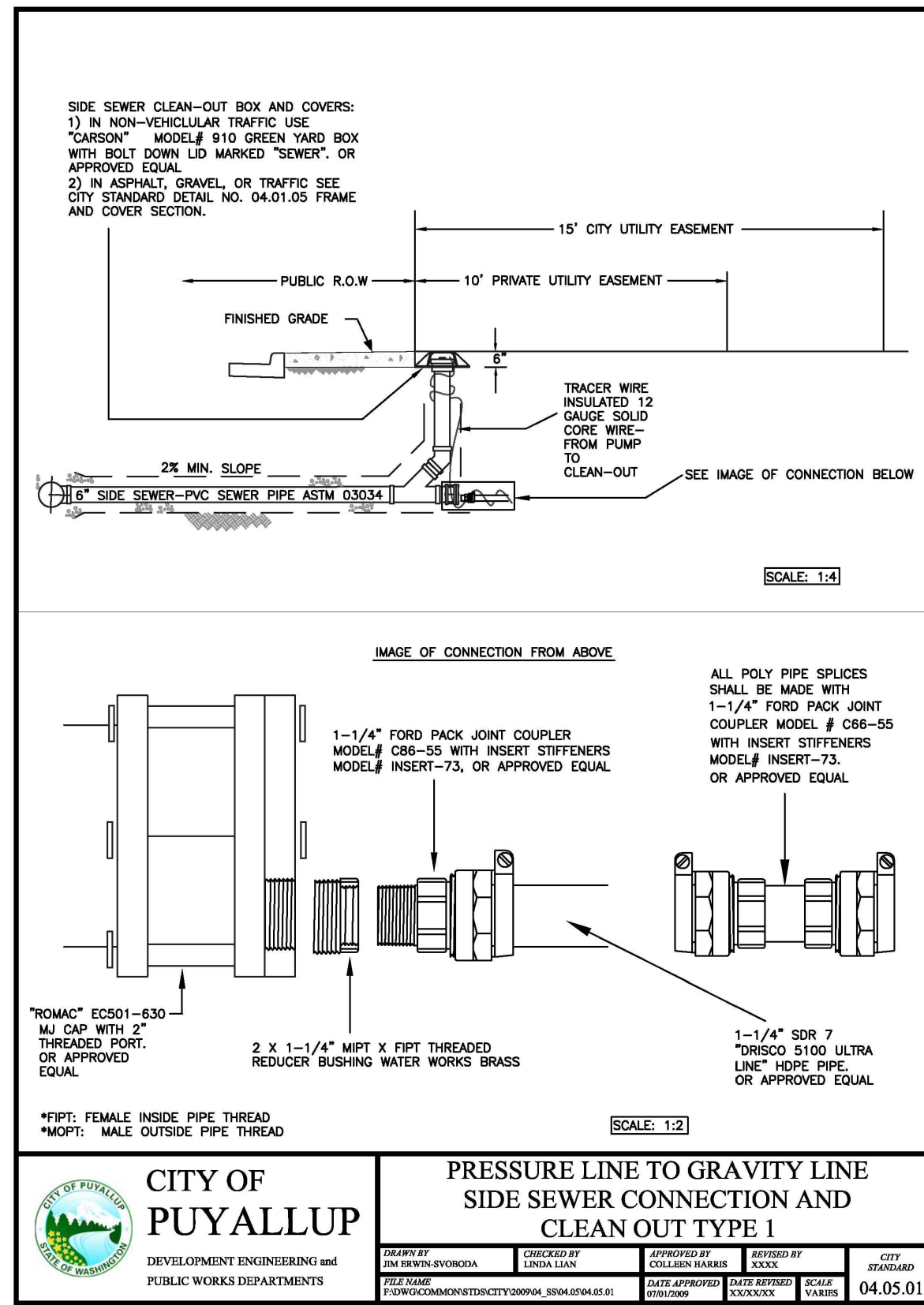
DATE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Job Number: **18111**

Sheet: **C21** of **22**

UTILITY DETAILS FOR CENTERIS VOLTAGE PARK

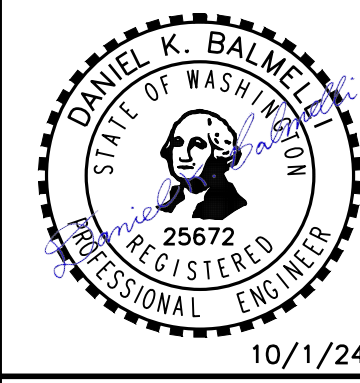
A PORTION OF THE NE 1/4, SE 1/4, NW 1/4 & SW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



NO.	DATE	BY	CHKD.	APPR.	REVISION
8	10/1/2024	KDM	CMV	CMV	NORTH POND REVISIONS CITY COMMENTS
7	9/17/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
6	7/30/2024	KDM	CMV	CMV	CONCRETE SLAB ADDITION
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2	5/20/2024	KDM	CMV	CMV	SOUTH UTILITY YARD REVISIONS
1	4/19/2024	KDM	CMV	CMV	1ST REVIEW COMMENTS (CITY)

UTILITY DETAILS
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: CMV
 Approved: DKB
 Date: 10/1/24

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

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

APPROVED
 BY: CITY OF PUYALLUP
 DEVELOPMENT ENGINEERING
 DATE: _____

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Job Number: **18111**
 Sheet: **C22** of **22**