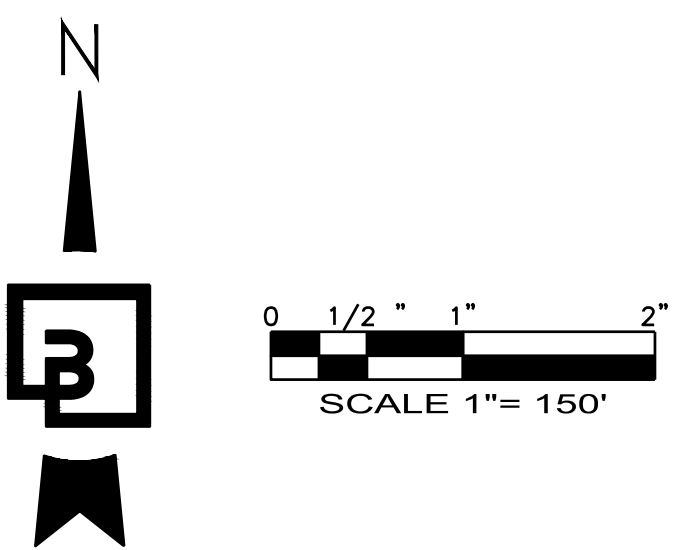
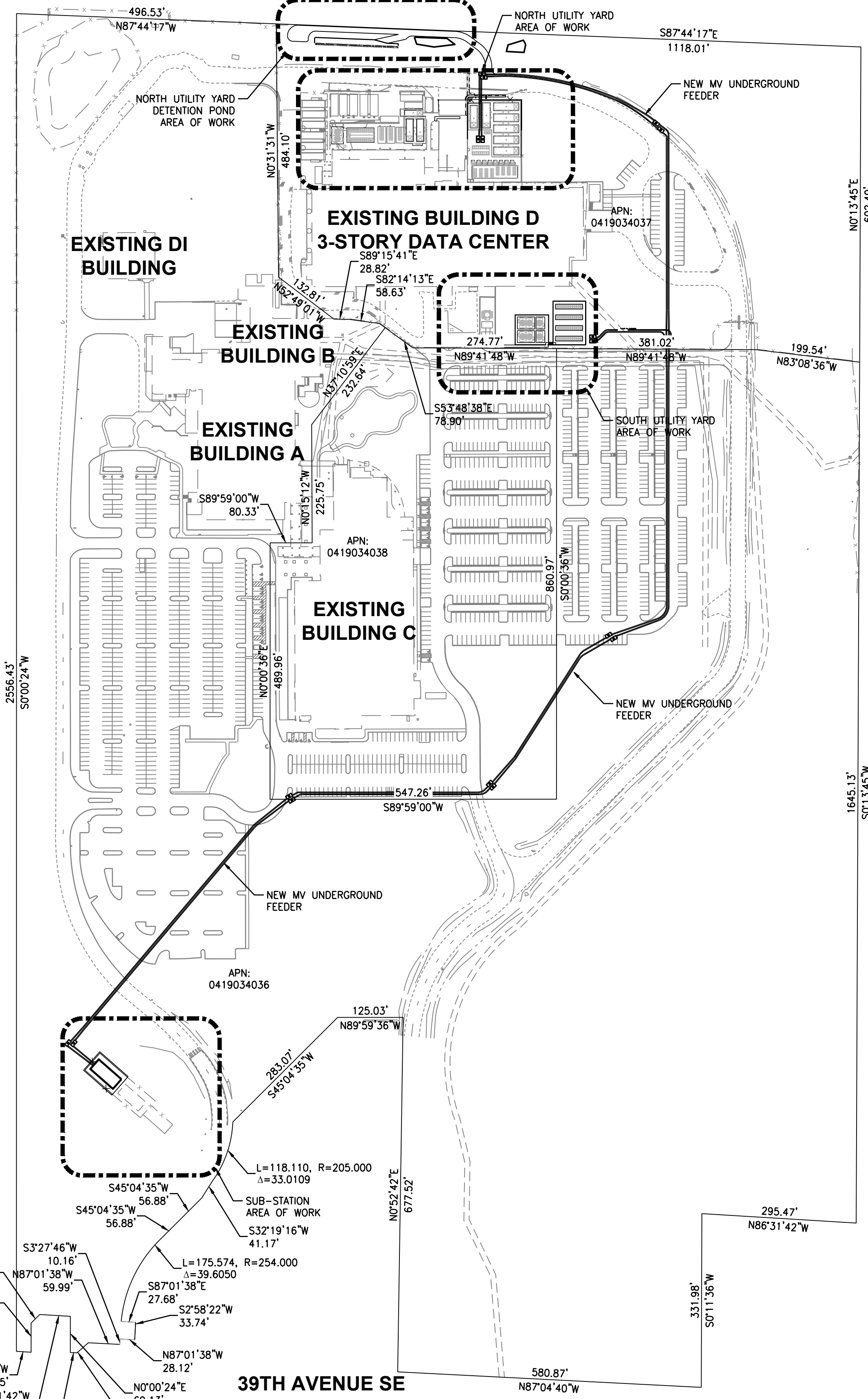
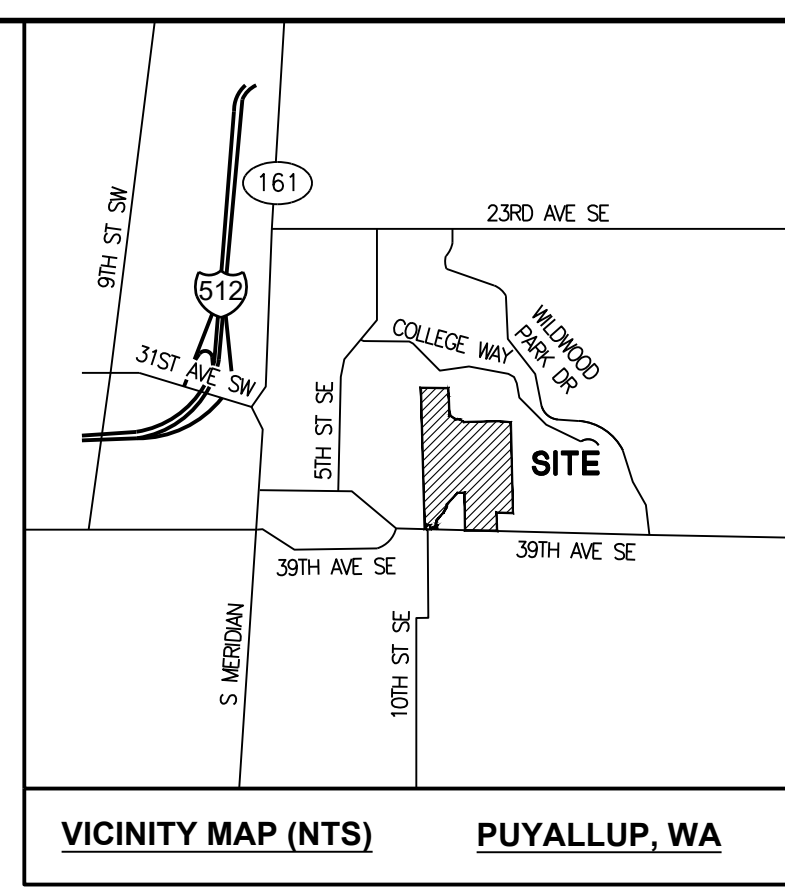


**COVER SHEET  
FOR  
CENTERIS VOLTAGE PARK**

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



EXISTING:	PROPOSED:

**SITE INFORMATION**

SITE ADDRESS: 1023 39TH AVENUE SE PUYALLUP, WA 98374-2121

PARCEL NUMBER: 0419034036 & 0419034037

PARCEL SIZE: 61.28 ACRES & 15.77 ACRES

EXISTING USE: BUSINESS PARK

ZONING DESIGNATION: BUSINESS PARK (MP)

FEMA FLOODPLAIN: ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN

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

**UTILITIES**

**WATER:** CITY OF PUYALLUP  
1100 39TH AVENUE SE  
PUYALLUP, WA 98374  
(253) 841-5505

**SEWER:** CITY OF PUYALLUP  
1100 39TH AVENUE SE  
PUYALLUP, WA 98374  
(253) 841-5505

**POWER:** PUGET SOUND ENERGY  
105 156TH AVENUE NE  
BELLEVUE, WA 98005  
1 (800) 321-4321

**GAS:** PUGET SOUND ENERGY  
105 156TH AVENUE NE  
BELLEVUE, WA 98005  
1 (800) 321-4321

**TELEPHONE:** CENTURY LINK  
450 110TH AVENUE NE  
PREMIS BUREAU, 4TH FLOOR  
BELLEVUE, WA 98003

**CABLE:** COMCAST  
P.O. BOX 1048  
AUBURN, WA 98002

**FIRE:** FIRE DISTRICT #6  
CENTRAL PIERCE FIRE AND RESCUE  
1015 39TH AVENUE, SUITE 120  
PUYALLUP, WA 98374  
(253) 538-6400

**OWNER/DEVELOPER**

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

**LAND SURVEYOR**

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

**ARCHITECT**

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

**GEOTECHNICAL**

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

**CIVIL ENGINEER**

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

**INDEX OF SHEETS**

C1	OF 18	COVER SHEET
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C3	OF 18	EXISTING CONDITIONS PLAN
C4	OF 18	TESC PLAN
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C6	OF 18	TESC NOTES AND DETAILS
C7	OF 18	DEMOLITION PLAN
C8	OF 18	NORTH SITE PLAN
C9	OF 18	SOUTH SITE PLAN
C10	OF 18	SITE DETAILS
C11	OF 18	NORTH GRADING & DRAINAGE PLAN
C12	OF 18	SOUTH GRADING & DRAINAGE PLAN
C13	OF 18	NORTH UTILITY YARD DETENTION POND
C14	OF 18	GRADING & DRAINAGE DETAILS
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C16	OF 18	NORTH UTILITY PLAN
C17	OF 18	SOUTH UTILITY PLAN
C18	OF 18	UTILITY DETAILS

**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 - NAVD88:

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: 1,220 CY**

**FILL: 1,800 CY**

**NET: 580 CY (IMPORT)**

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

**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.

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 REFERENCE  
SUBMITTED UNDER CIVIL CONSTRUCTION APPLICATION  
NUMBER: PRCCP20240183

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

Revision	
No.	Date
By	Ckd.
Appr.	
Title: <b>COVER SHEET CENTERIS VOLTAGE PARK</b>	
For: <b>BENAROYA CAPITAL, LLC CENTERIS DATA CENTERS 9675 SE 36TH ST, SUITE 115 MERCER ISLAND, WA 98040</b>	
Scale:	Horizontal 1" = 150'
	Vertical N/A
Designed: KDM	Drawn: KDM
Checked: CMV	Approved: DKB
Date: 2/2/24	
<b>Barghausen Consulting Engineers, Inc.</b> 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com	
Job Number <b>18111</b>	Sheet <b>C1</b> of <b>18</b>



GENERAL SITE DEVELOPMENT NOTES

- 1. THE GENERAL CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
2. THE GENERAL CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION...

CONSTRUCTION SEQUENCE

- 1. FLAGGING OF CLEARING LIMITS.
2. SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH THE CITY OF PUYALLUP.
3. PROVIDE MISC. DEMOLITION AND CLEAR AND GRUB AREA WITHIN CLEARING LIMITS REQUIRED FOR INSTALLATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES...

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 BRIDGED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO RESPONSIBILITY...

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.

GENERAL NOTES FOR CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 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 STANDARD NOTES

- 1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE APPROVED ENGINEERING PLANS...
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...
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION...

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 APPROVED ENGINEERING PLANS...
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...
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION...

UTILITY CONFLICT NOTE:

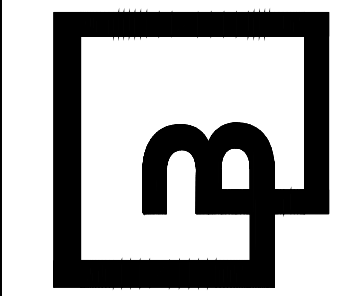
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NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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

APPROVED

BY: CITY OF PUYALLUP DEVELOPMENT ENGINEERING DATE:



Job Number: 18111 Sheet: C2 of 18

Barghausen Consulting Engineers, Inc. 18215 72nd Avenue South Kent, WA 98032 425.2516222 barghausen.com

Scale: Horizontal N/A Vertical N/A Designed KDM Draw KDM Checked CNW Approved DKB Date 2/2/24

02/02/24

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

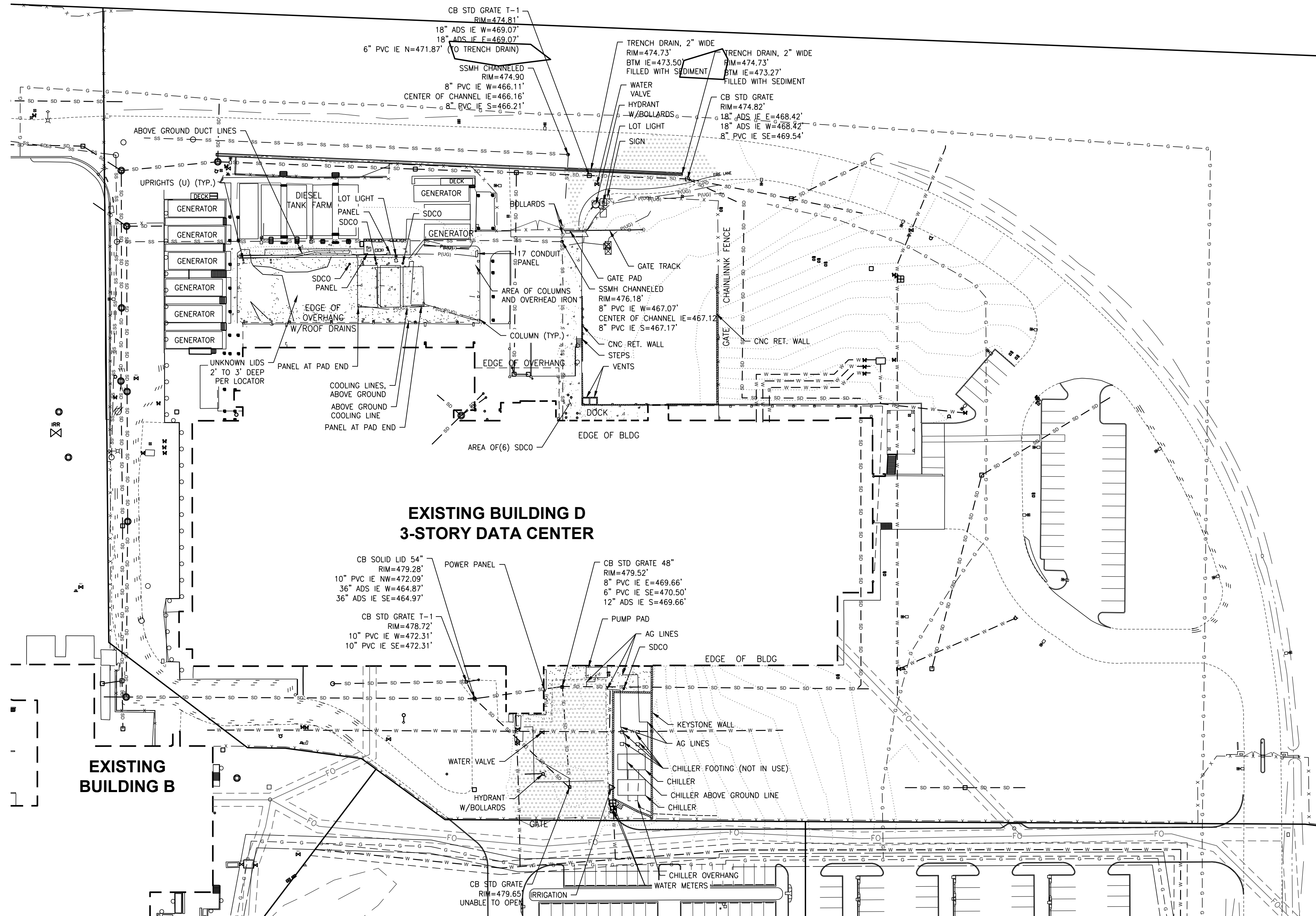
Title: GENERAL NOTES CENTERIS VOLTAGE PARK

Revision table with columns: No., Date, By, Ckt., Appr., Revision



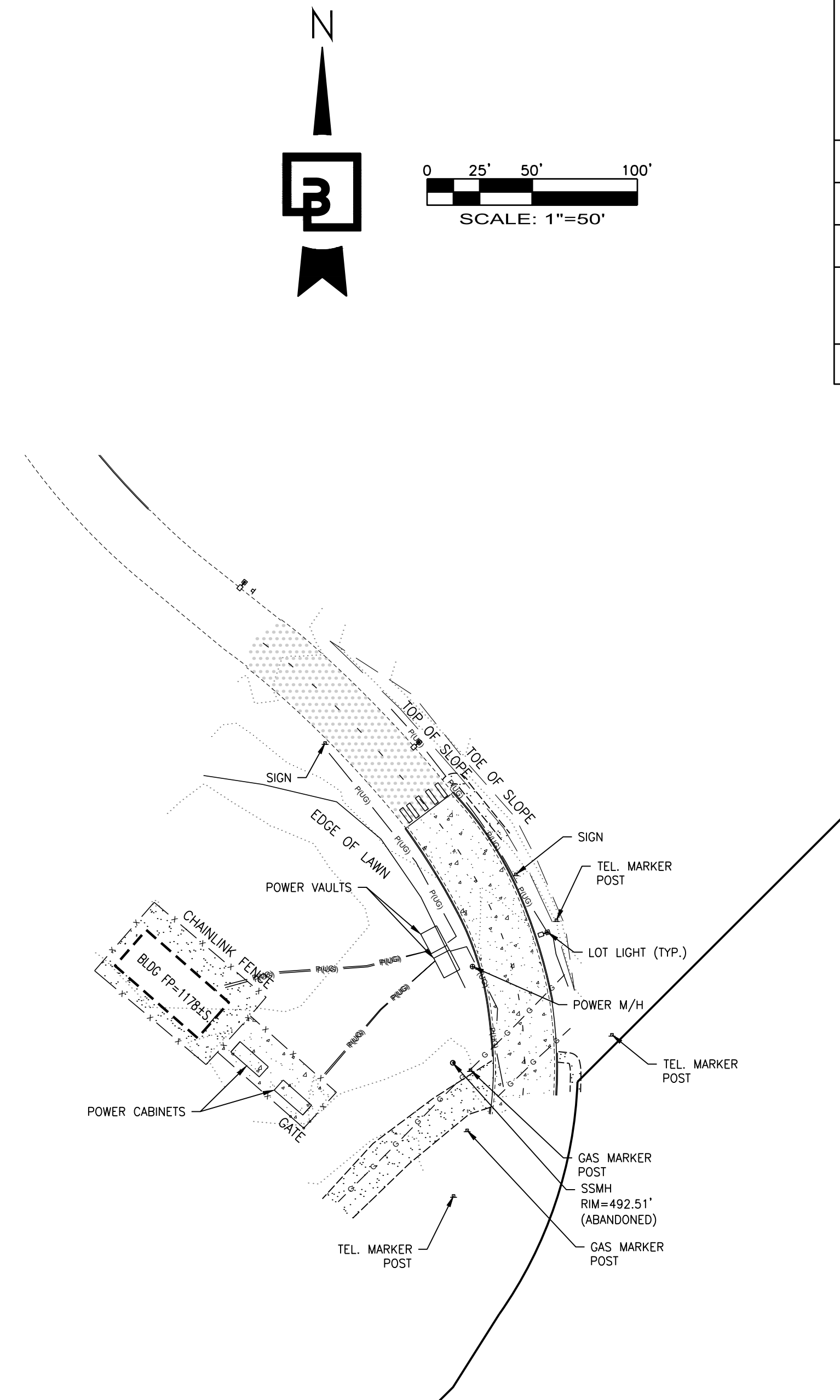
# EXISTING CONDITIONS PLAN FOR CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 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'

Revision									
No.	Date	By	Ckd.	Appr.					

Title: **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	Vertical
	1" = 50'	N/A
Designed KDM	KDM	
Drawn	CMV	
Checked	DKB	
Approved	DKB	
Date	2/2/24	

**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222 [barghausen.com](http://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 POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLING 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.

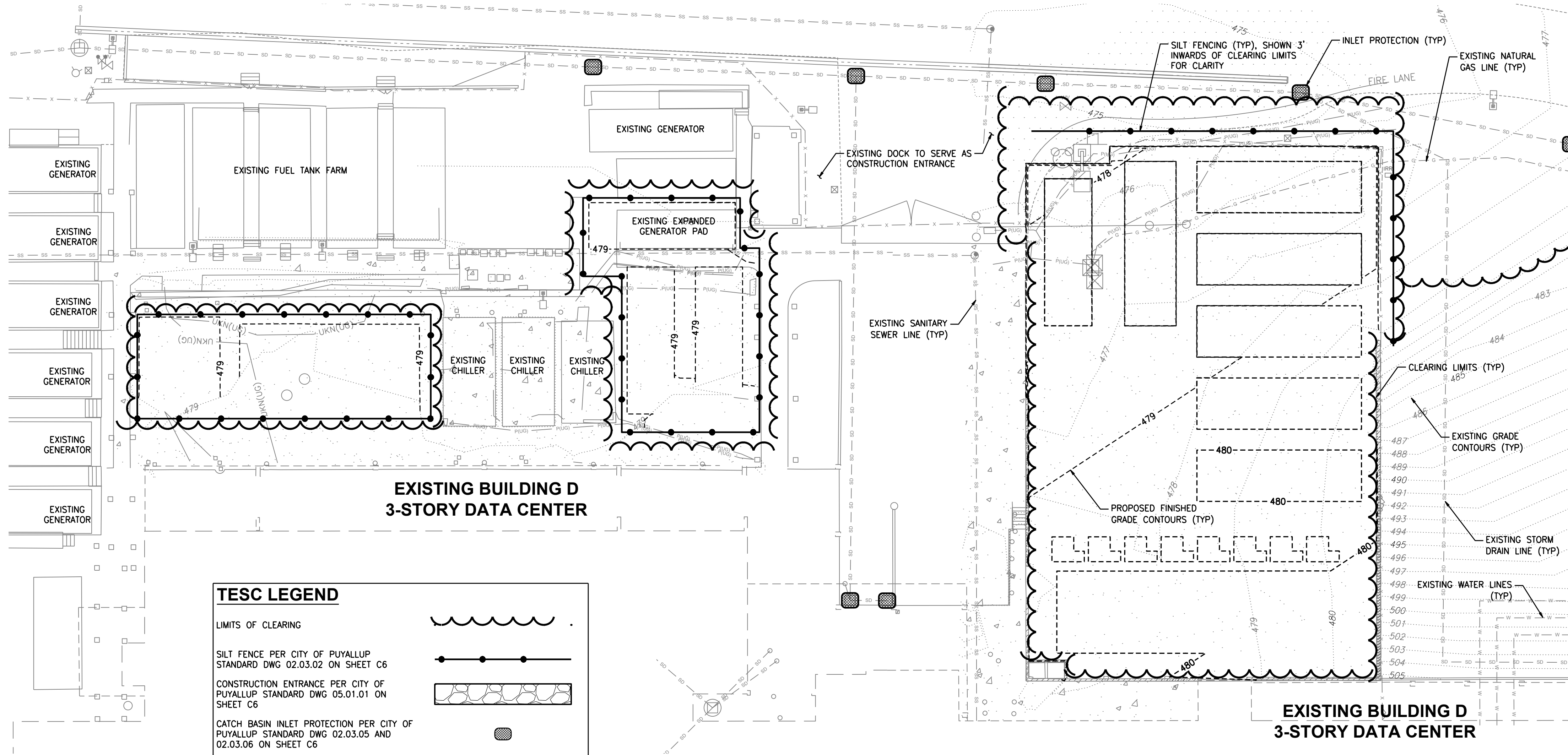
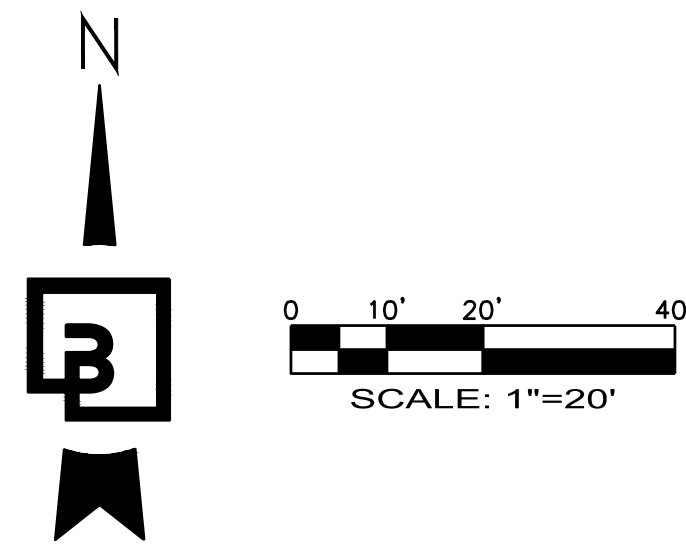
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Job Number	18111
Sheet	C3 of 18



# TESC PLAN FOR CENTERIS VOLTAGE PARK

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



**TESC LEGEND**

LIMITS OF CLEARING

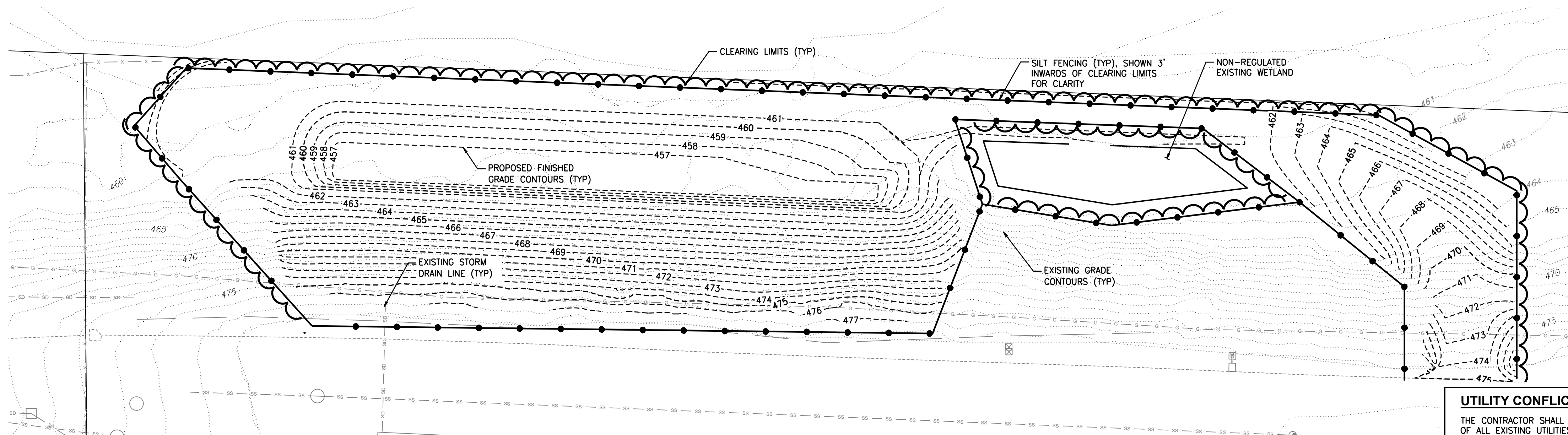
SILT FENCE PER CITY OF PUYALLUP STANDARD DWG 02.03.02 ON SHEET C6

CONSTRUCTION ENTRANCE PER CITY OF PUYALLUP STANDARD DWG 05.01.01 ON SHEET C6

CATCH BASIN INLET PROTECTION PER CITY OF PUYALLUP STANDARD DWG 02.03.05 AND 02.03.06 ON SHEET C6

**VOLTAGE PARK - NORTH UTILITY YARD TESC**

SCALE: 1" = 20'



**VOLTAGE PARK - NORTH UTILITY YARD POND**

SCALE: 1" = 20'

**EROSION CONTROL NOTE**

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

**DUST CONTROL NOTES**

1. THE CONTRACTOR SHALL MINIMIZE THE PERIOD OF SOIL EXPOSURE THROUGH THE USE OF TEMPORARY GROUND COVER AND OTHER TEMPORARY STABILIZATION PRACTICES SUCH AS SEEDING, MULCHING, OR EROSION BLANKETS.
2. DURING CONSTRUCTION IN THE DRY SEASON, SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE AREA IS WET. REPEAT THE PROCESS AS NEEDED DURING WORK.
3. ALL TRUCKS TRANSPORTING FINE MATERIAL TO THE PROJECT SITE MUST BE COVERED TO PREVENT DUST FROM BLOWING FROM THE TRUCKS.

**CLEARING NOTES**

1. SCHEDULE AND LIMIT REMOVAL OF EXISTING VEGETATION AND GROUND COVER TO THE MINIMUM EXTENT FEASIBLE WITHIN THE ACTIVE WORK AREA.
2. ALL TOPSOIL (IF FOUND) SHALL REMAIN ON-SITE AND BE UTILIZED FOR SITE RESTORATION FOLLOWING COMPLETION OF GRADING ACTIVITIES.
3. THE GEOTECHNICAL ENGINEER SHALL BE ON-SITE DURING ALL STRIPPING AND GRUBBING OPERATIONS TO VERIFY CONDITION OF THE SUBGRADE SOILS AND REMOVAL OF ALL ORGANIC MATERIAL, STUBS, UNCONTROLLED FILL, ECT.
4. THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND TEST FILL MATERIAL AS REQUIRED TO CERTIFY THE COMPLETED FILLS.

**WET SEASON NOTES**

THE FOLLOWING BMPs SHALL APPLY TO ALL GRADING AND CLEARING ACTIVITY PERFORMED BETWEEN OCTOBER 1 AND MARCH 31:

1. GRADING ACTIVITIES AND CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES TO MINIMIZE SOIL EXPOSURE.
2. EXPOSED SOILS SHALL BE COVERED WITHIN 2 DAYS USING DAM MULCH, SOD, HOG FUEL, PLASTIC OR OTHER APPROVED PROTECTED COVER.
3. THE CONTRACTOR SHALL INSPECT AND MAINTAIN SEDIMENT CONTROL MEASURES DAILY.
  - 3.1. THE CONTRACTOR SHALL REPLACE AND DAMAGED BMPs AND UPGRADE MEASURES BASED ON WEATHER CONDITIONS.
  - 3.2. THE CONTRACTOR SHALL REMOVE SEDIMENT ACCUMULATION ONCE DEPTH EXCEEDS 6-INCHES.
4. INSTALL COIR LOG, ROCK OR STRAW BALE CHECK DAMS EVERY 100 FEET ON CENTER ALONG ALL DRAINAGE INTERCEPTOR DITCHES.
5. EROSION CONTROL MATERIALS ARE TO BE STOCKPILED ON SITE PRIOR TO ANY SITE ACTIVITIES.
6. DURING STORM EVENTS, NO ACTIVITY WILL OCCUR ON SITE, EXCEPT WORK ON EROSION CONTROL.

**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.

APPROVED

BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

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

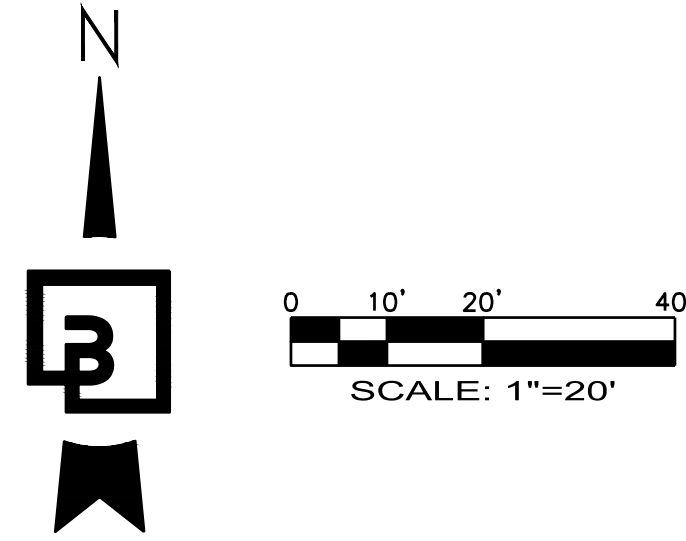
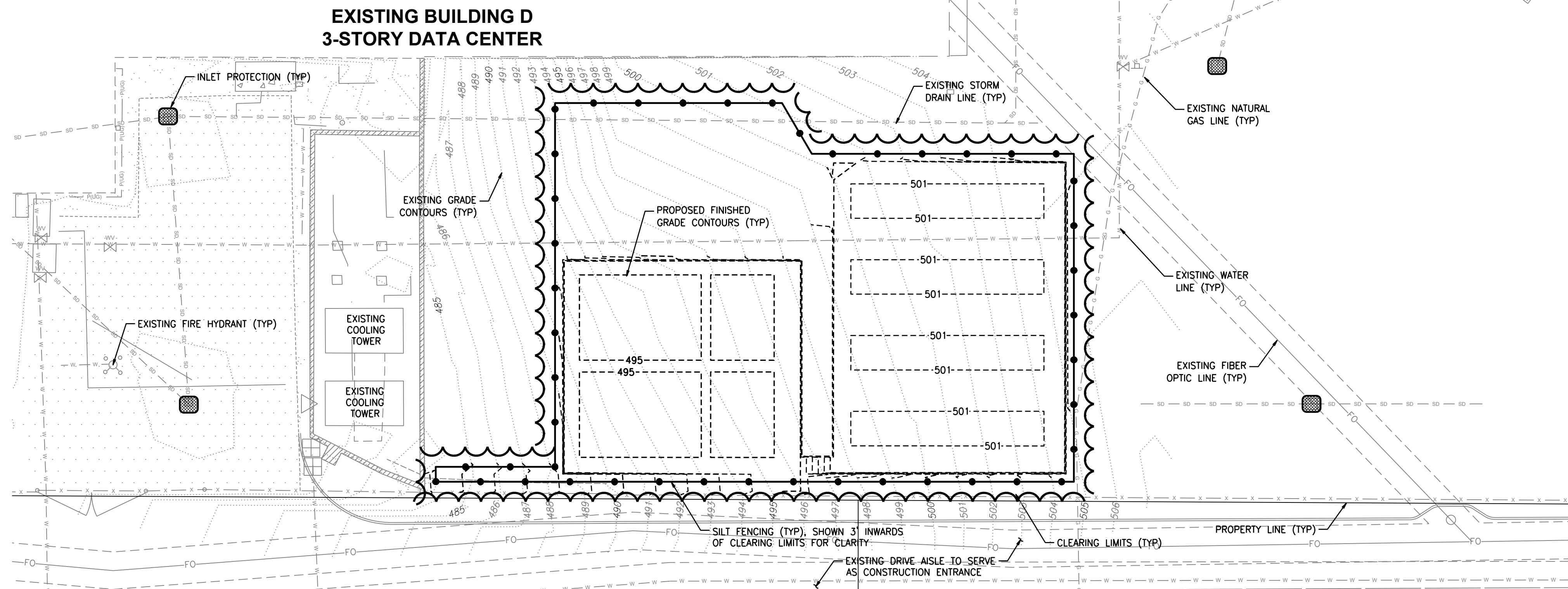
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.  
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.  
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Revision					
No.	Date	By	Ckd.	Appr.	
Title: TESC PLAN <b>CENTERIS VOLTAGE PARK</b>					
For: BENAROYA CAPITAL, LLC CENTERIS DATA CENTERS 9675 SE 36TH ST, SUITE 115 MERCER ISLAND, WA 98040					
02/02/24					
Scale: Horizontal 1" = 20', Vertical N/A					
Designed: KDM, Draw: KDM, Checked: CMV, Approved: DKB, Date: 2/2/24					
<b>Barghausen Consulting Engineers, Inc.</b> 18215 72nd Avenue South Kent, WA 98032 425.251.6222 <a href="http://barghausen.com">barghausen.com</a>					
Job Number	18111	Sheet	C4	of	18

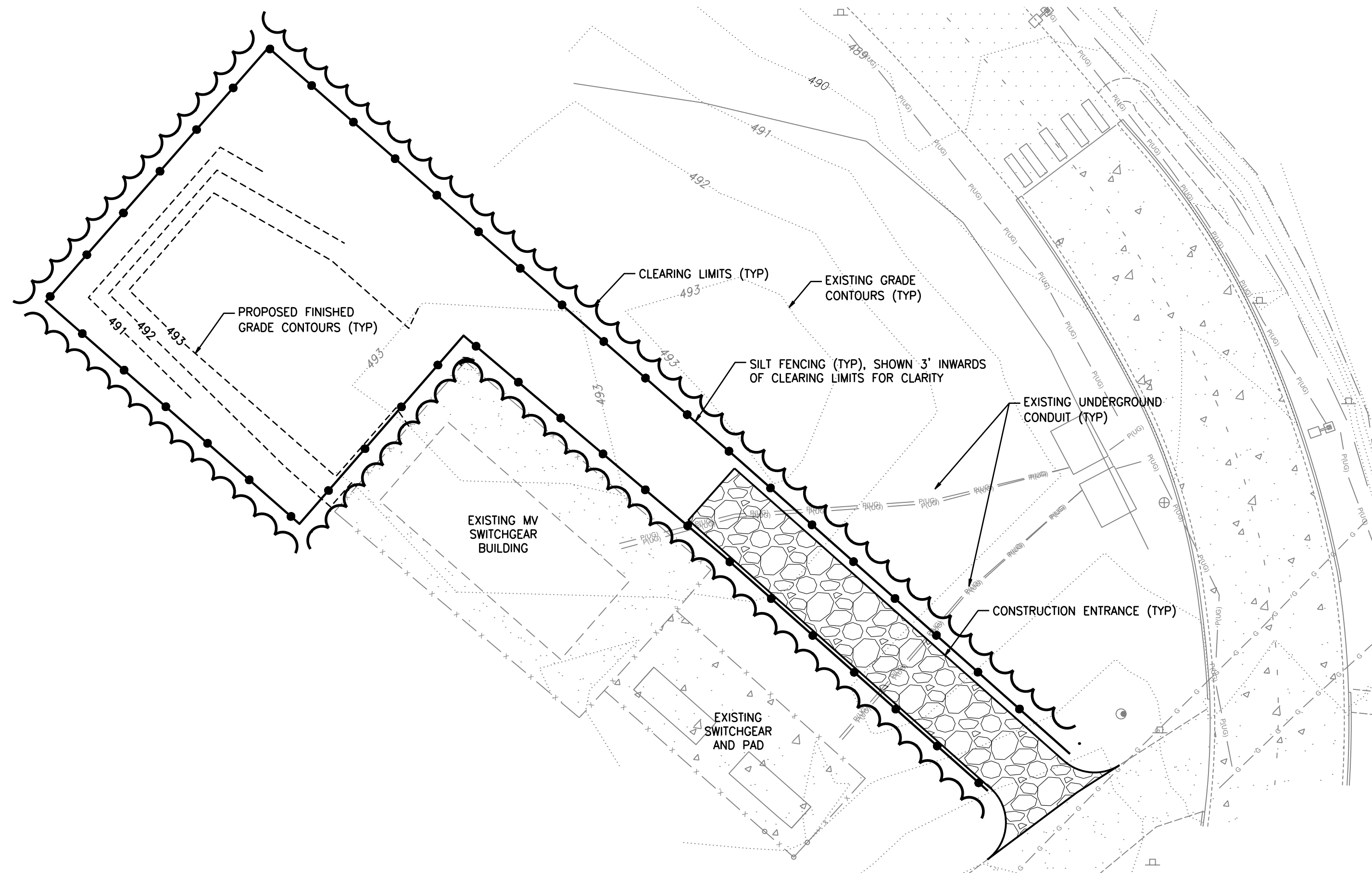


**TESC PLAN  
FOR  
CENTERIS VOLTAGE PARK**

A PORTION OF THE NE 1/4, SE 1/4, NW 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 TESC**  
SCALE: 1" = 20'



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

**TESC LEGEND**

LIMITS OF CLEARING

SILT FENCE PER CITY OF PUYALLUP STANDARD DWG 02.03.02 ON SHEET C6

CONSTRUCTION ENTRANCE PER CITY OF PUYALLUP STANDARD DWG 05.01.01 ON SHEET C6

CATCH BASIN INLET PROTECTION PER CITY OF PUYALLUP STANDARD DWG 02.03.05 AND 02.03.06 ON SHEET C6

**EROSION CONTROL NOTE**

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

**DUST CONTROL NOTES**

1. THE CONTRACTOR SHALL MINIMIZE THE PERIOD OF SOIL EXPOSURE THROUGH THE USE OF TEMPORARY GROUND COVER AND OTHER TEMPORARY STABILIZATION PRACTICES SUCH AS SEEDING, MULCHING, OR EROSION BLANKETS.
2. DURING CONSTRUCTION IN THE DRY SEASON, SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE AREA IS WET. REPEAT THE PROCESS AS NEEDED DURING WORK.
3. ALL TRUCKS TRANSPORTING FINE MATERIAL TO THE PROJECT SITE MUST BE COVERED TO PREVENT DUST FROM BLOWING FROM THE TRUCKS.

**CLEARING NOTES**

1. SCHEDULE AND LIMIT REMOVAL OF EXISTING VEGETATION AND GROUND COVER TO THE MINIMUM EXTENT FEASIBLE WITHIN THE ACTIVE WORK AREA.
2. ALL TOPSOIL (IF FOUND) SHALL REMAIN ON-SITE AND BE UTILIZED FOR SITE RESTORATION FOLLOWING COMPLETION OF GRADING ACTIVITIES.
3. THE GEOTECHNICAL ENGINEER SHALL BE ON-SITE DURING ALL STRIPPING AND GRUBBING OPERATIONS TO VERIFY CONDITION OF THE SUBGRADE SOILS AND REMOVAL OF ALL ORGANIC MATERIAL, STUBS, UNCONTROLLED FILL, ETC.
4. THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND TEST FILL MATERIAL AS REQUIRED TO CERTIFY THE COMPLETED FILLS.

**WET SEASON NOTES**

THE FOLLOWING BMPS SHALL APPLY TO ALL GRADING AND CLEARING ACTIVITY PERFORMED BETWEEN OCTOBER 1 AND MARCH 31:

1. GRADING ACTIVITIES AND CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES TO MINIMIZE SOIL EXPOSURE.
  - 3.1. THE CONTRACTOR SHALL REPLACE AND DAMAGED BMPS AND UPGRADE MEASURES BASED ON WEATHER CONDITIONS.
  - 3.2. THE CONTRACTOR SHALL REMOVE SEDIMENT ACCUMULATION ONCE DEPTH EXCEEDS 6-INCHES.
4. INSTALL COIR LOG, ROCK OR STRAW BALE CHECK DAMS EVERY 100 FEET ON CENTER ALONG ALL DRAINAGE INTERCEPTOR DITCHES.
5. EROSION CONTROL MATERIALS ARE TO BE STOCKPILED ON SITE PRIOR TO ANY SITE ACTIVITIES.
6. DURING STORM EVENTS, NO ACTIVITY WILL OCCUR ON SITE, EXCEPT WORK ON EROSION CONTROL. 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.

**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.

No.	Date	By	Ckd.	Appr.	Revision

Title: TESC PLAN

**CENTERIS  
VOLTAGE PARK**

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

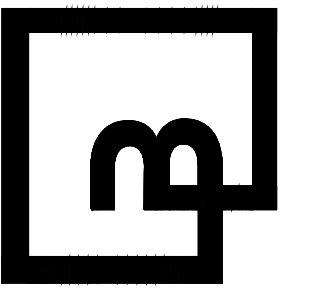


02/02/24

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

Designed: KDM  
Drawn: KDM  
Checked: CMV  
Approved: DKB  
Date: 2/2/24

**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
[barghausen.com](http://barghausen.com)



Job Number 18111

Sheet C5

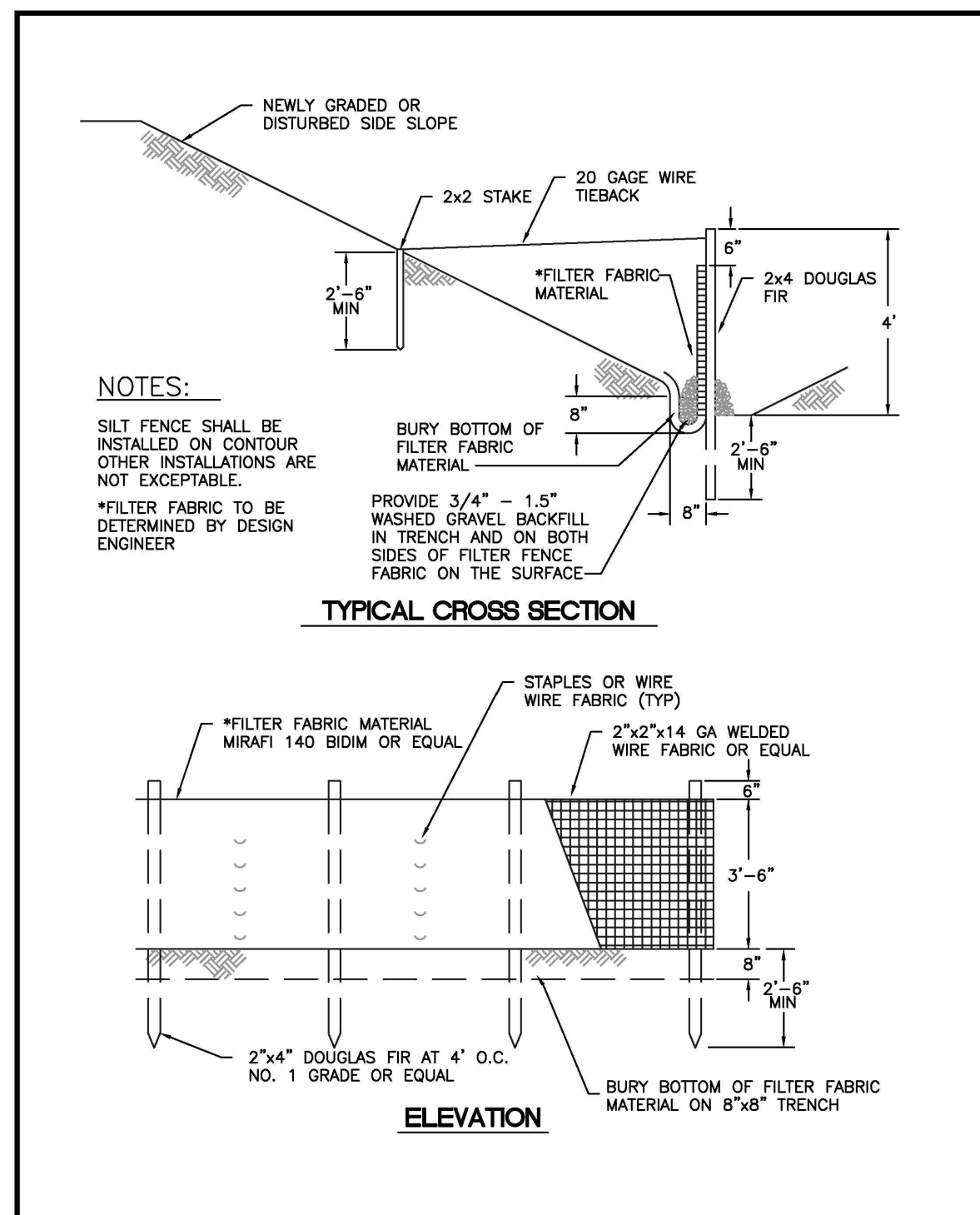
of 18



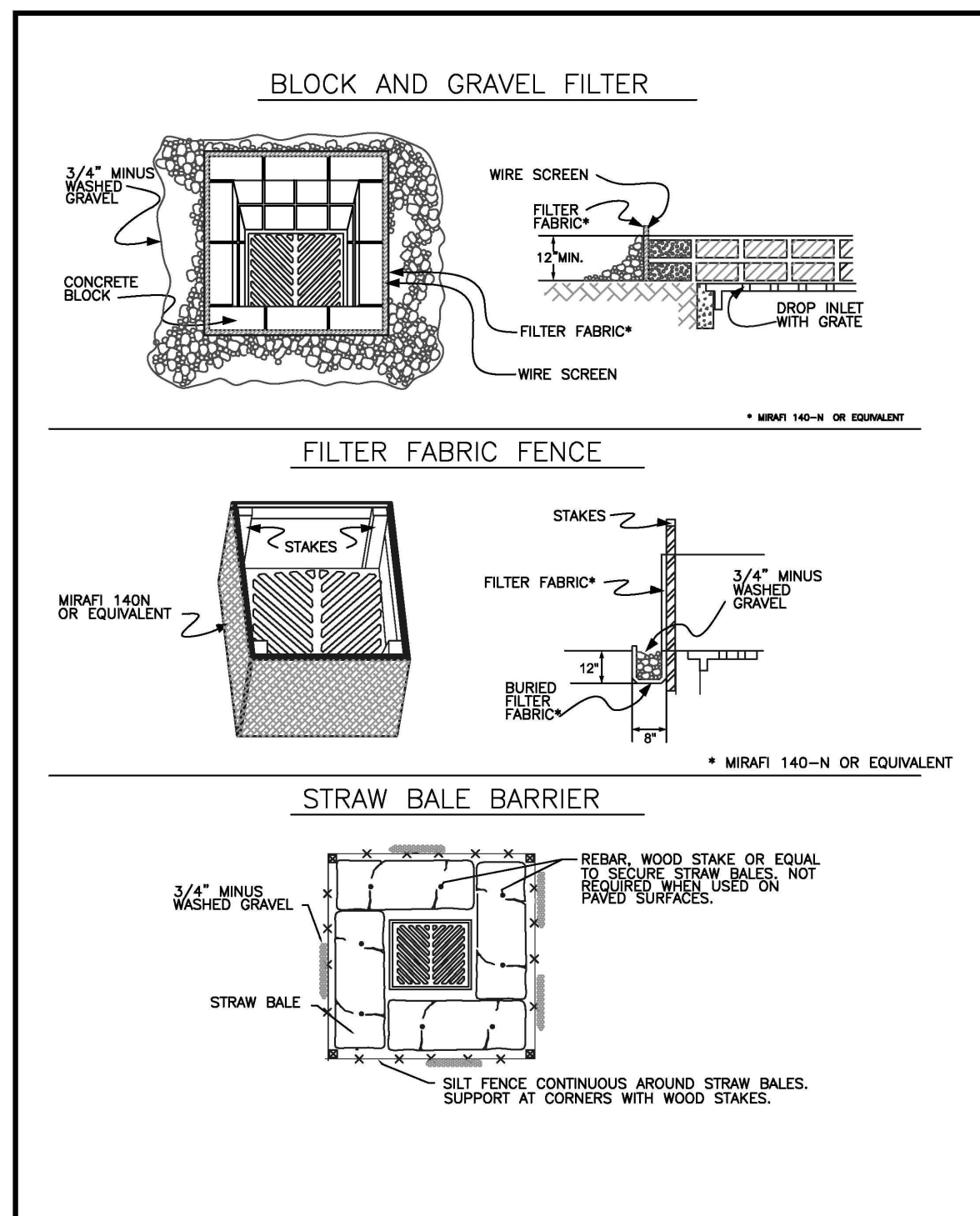
TESC NOTES AND DETAILS  
FOR

# CENTERIS VOLTAGE PARK

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



<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>SILTATION FENCE</b>				
	<p>DESIGNED BY: [Name] CHECKED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>CITY STANDARD: [Code]</p>



<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>STORM DRAIN BARRIERS</b>				
	<p>DESIGNED BY: [Name] CHECKED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>CITY STANDARD: [Code]</p>

**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 0.5 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 VARYING, DEPENDING ON DESIGN NEEDS. BY STACKING COMBINATIONS 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.

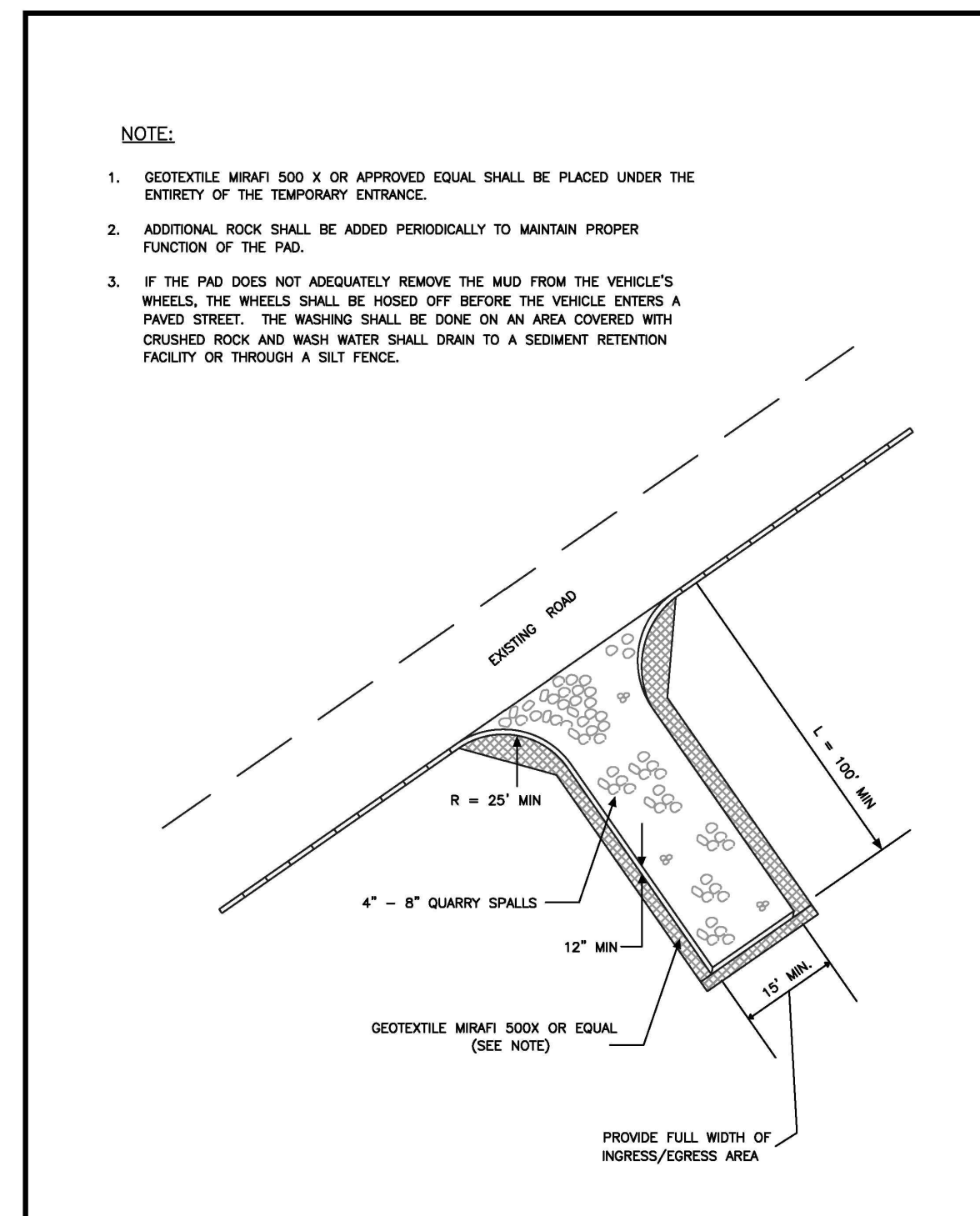
**2. FILTER FABRIC FENCE - INSTALLATION PROCEDURE**

- 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 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.

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>STORM DRAIN BARRIERS NOTES</b>				
	<p>DESIGNED BY: [Name] CHECKED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>CITY STANDARD: [Code]</p>



<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>TEMPORARY CONSTRUCTION ENTRANCE</b>				
	<p>DESIGNED BY: [Name] CHECKED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>CITY STANDARD: [Code]</p>

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

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

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

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

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

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

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

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES</b>				
	<p>DESIGNED BY: [Name] CHECKED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>APPROVED BY: [Name] DATE APPROVED: [Date]</p>	<p>CITY STANDARD: [Code]</p>

**STANDARD SWPPP NOTES**

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

**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: \_\_\_\_\_

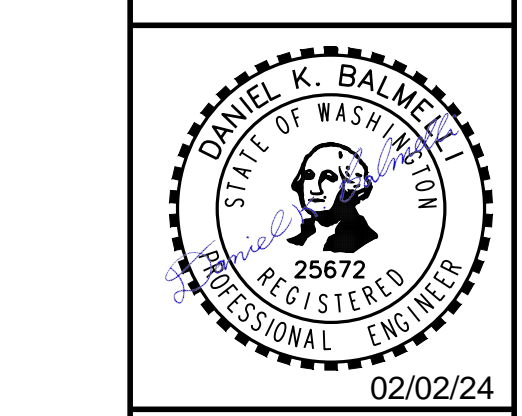
**CALL BEFORE YOU DIG:  
1-800-424-5555 OR "811"**

**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	Ckd.	Appr.	

Title: TESC NOTES AND 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: 2/2/24

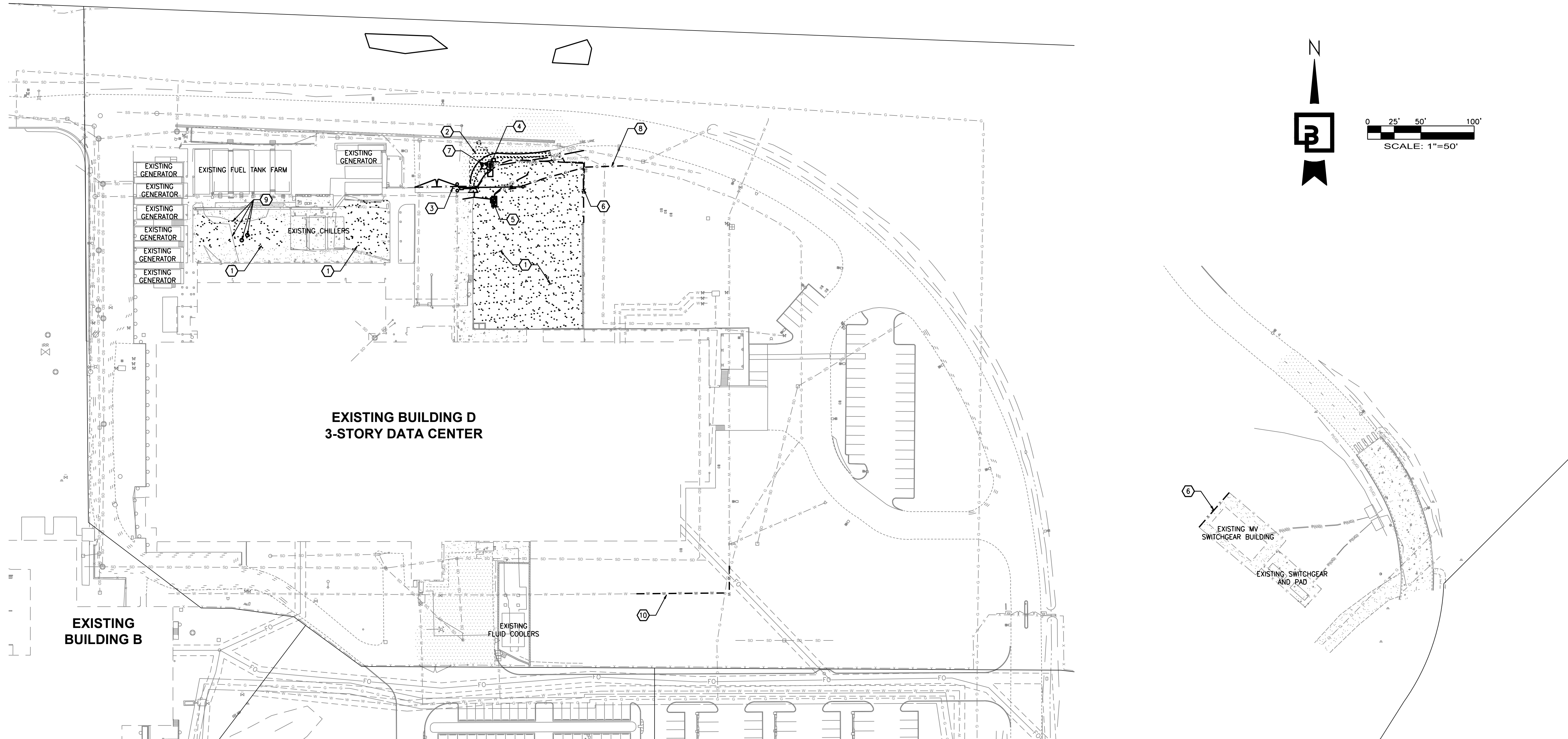
**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
[barghausen.com](http://barghausen.com)

Job Number	18111
Sheet	C6 of 18



# DEMOLITION PLAN FOR **CENTERIS VOLTAGE PARK**

A PORTION OF THE NE 1/4, SE 1/4, NW 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**

1. EXISTING CURB 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.
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 RELOCATED. COORDINATE ALL SHUT DOWNS WITH UTILITY AND FIRE MARSHAL.

**VOLTAGE PARK - SUB-STATION DEMOLITION**

SCALE: 1" = 50'

**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

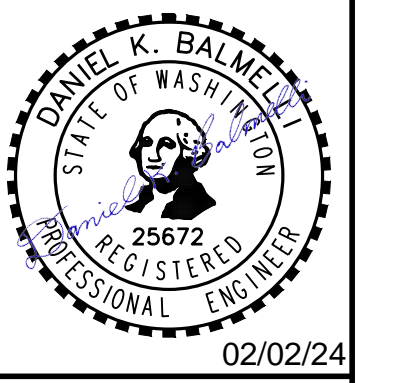
BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

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

Revision		Appr.		Ctd.		By		Date		No.	
<b>DEMOLITION PLAN</b> <b>CENTERIS</b> <b>VOLTAGE PARK</b>											
Title:											

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



Scale:	Horizontal	Vertical
	1" = 50'	N/A
Designed KDM	Drawn KDM	Checked CMV
Approved DKB	Date 2/2/24	

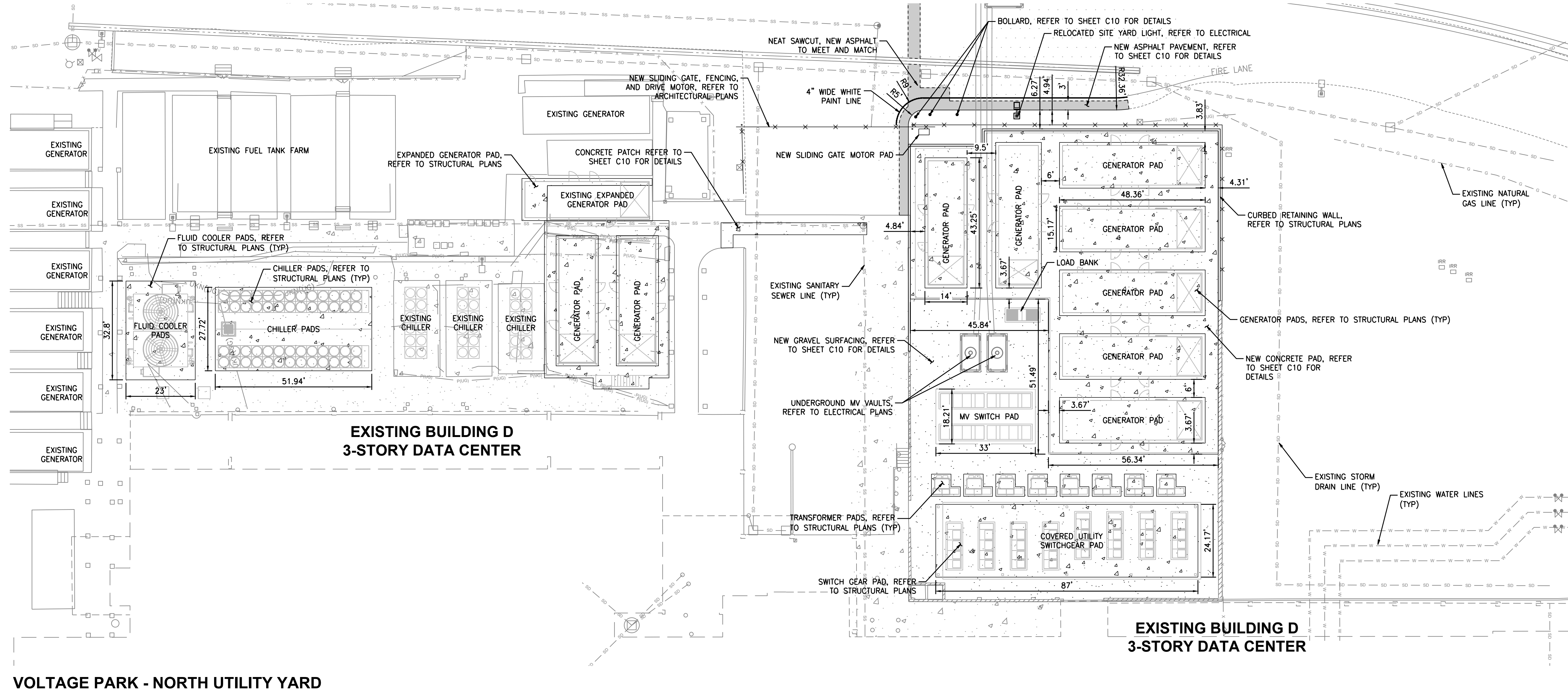
**Barghausen Consulting Engineers, Inc.**  
 18215 72nd Avenue South  
 Kent, WA 98032  
 425.251.6222 [barghausen.com](http://barghausen.com)

Job Number	18111	Sheet	C7	of	18
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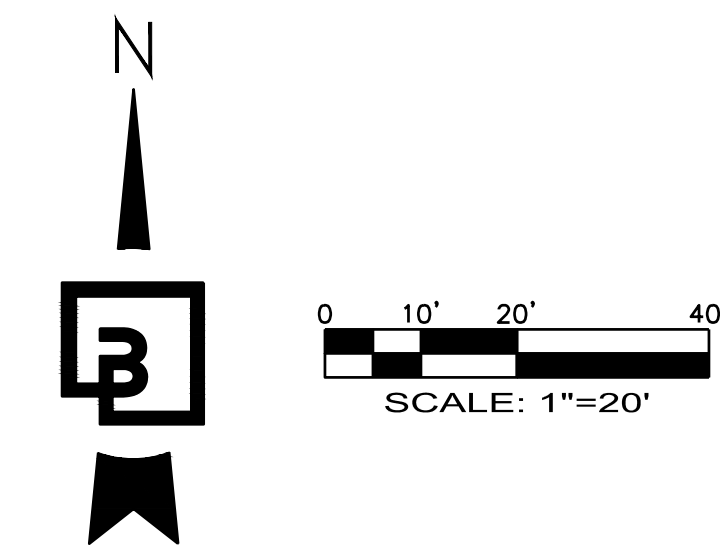
# NORTH SITE PLAN FOR CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 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'



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

**UTILITY CONFLICT NOTE:**

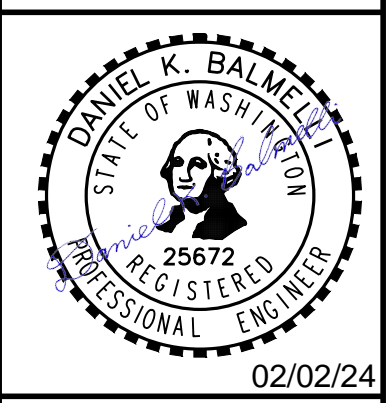
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 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.

APPROVED  
BY: CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE: \_\_\_\_\_

Revision	By	Date	Appr.

Title:  
**NORTH SITE PLAN  
CENTERIS  
VOLTAGE PARK**

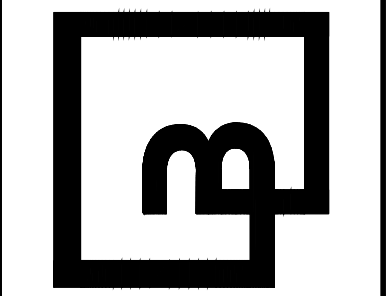
For: **BENAROYA CAPITAL, LLC  
CENTERIS DATA CENTERS  
9675 SE 36TH ST, SUITE 115  
MERCER ISLAND, WA 98040**



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

Designed <b>KDM</b>	Drawn <b>KDM</b>	Checked <b>CMV</b>	Approved <b>DKB</b>	Date <b>2/2/24</b>
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**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222 **barghausen.com**

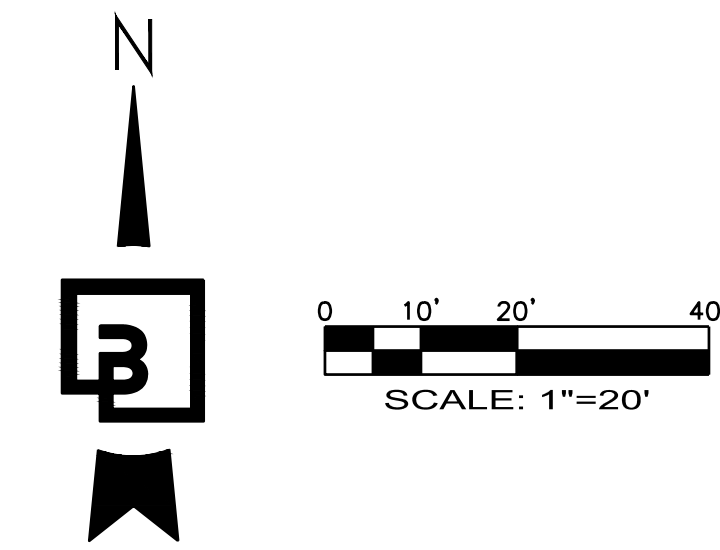
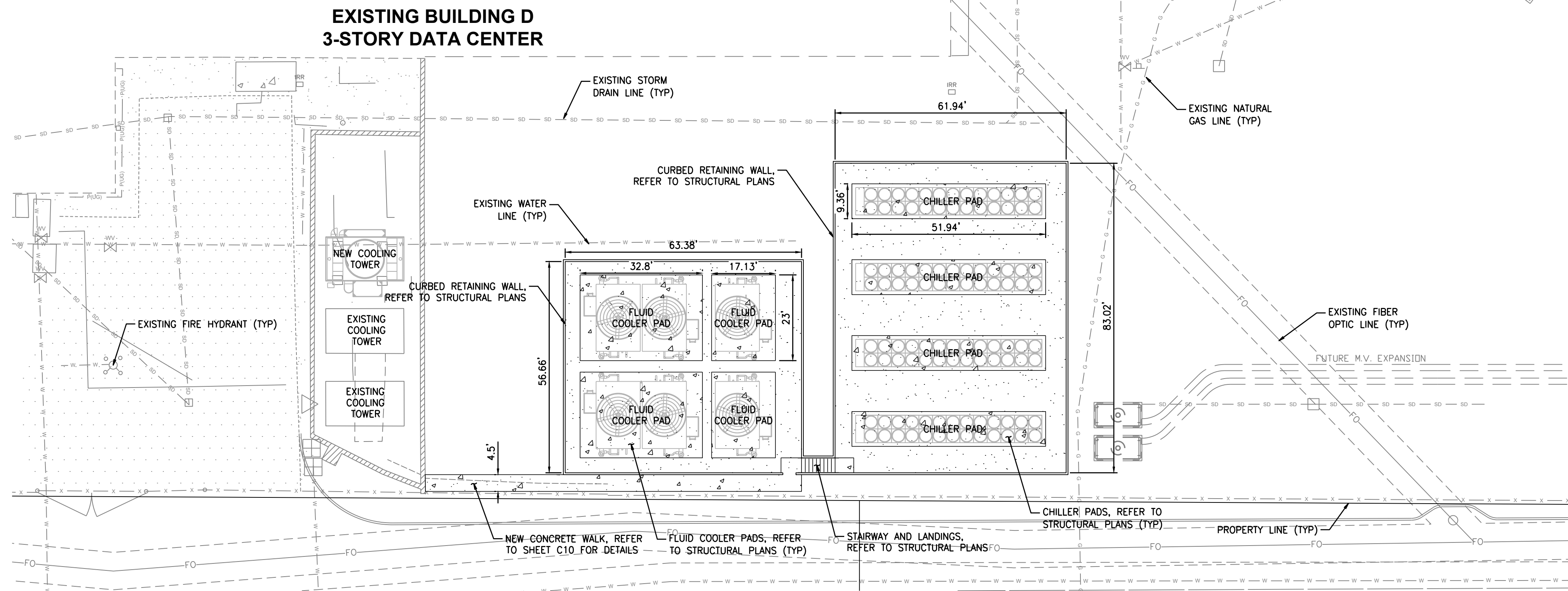


Job Number **18111**  
Sheet **C8** of **18**



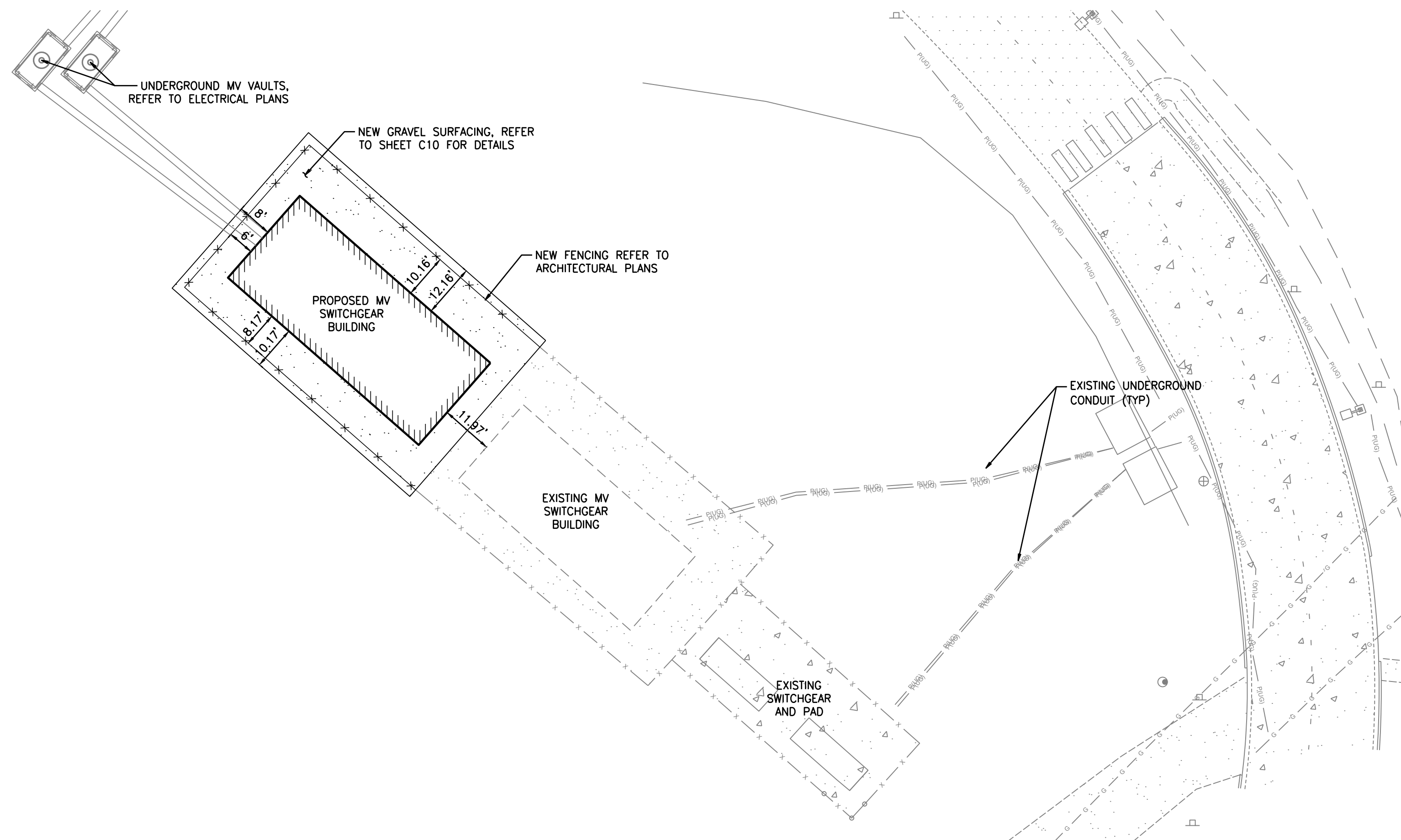
# SOUTH SITE PLAN FOR **CENTERIS VOLTAGE PARK**

A PORTION OF THE NE 1/4, SE 1/4, NW 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'

**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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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	Ckd.	Appr.	SOUTH SITE PLAN  <b>CENTERIS VOLTAGE PARK</b>				

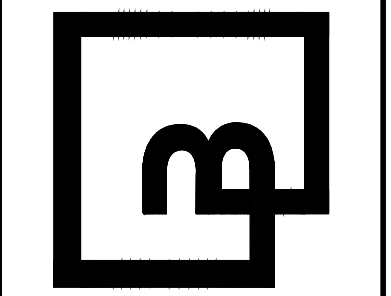
For: **BENAROYA CAPITAL, LLC**  
**CENTERIS DATA CENTERS**  
 9675 SE 36TH ST, SUITE 115  
 MERCER ISLAND, WA 98040



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

Designed	KDM	Drawn	KDM	Checked	CMV	Approved	DKB	Date	2/2/24
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**Barghausen Consulting Engineers, Inc.**  
 18215 72nd Avenue South  
 Kent, WA 98032  
 425.251.6222 [barghausen.com](http://barghausen.com)



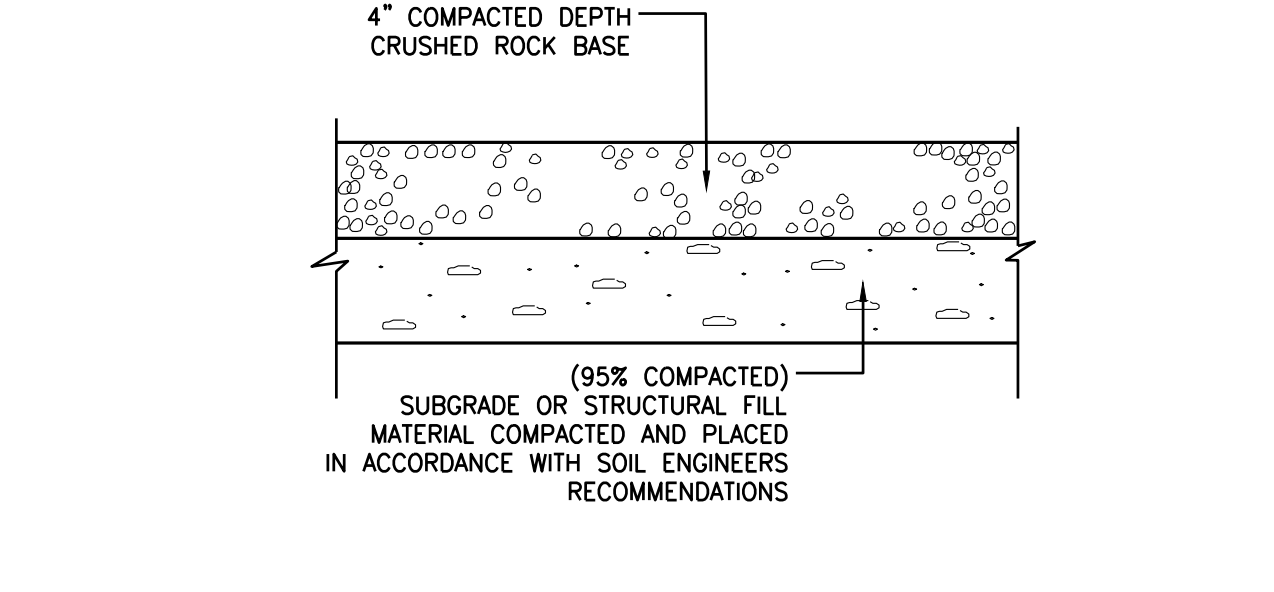
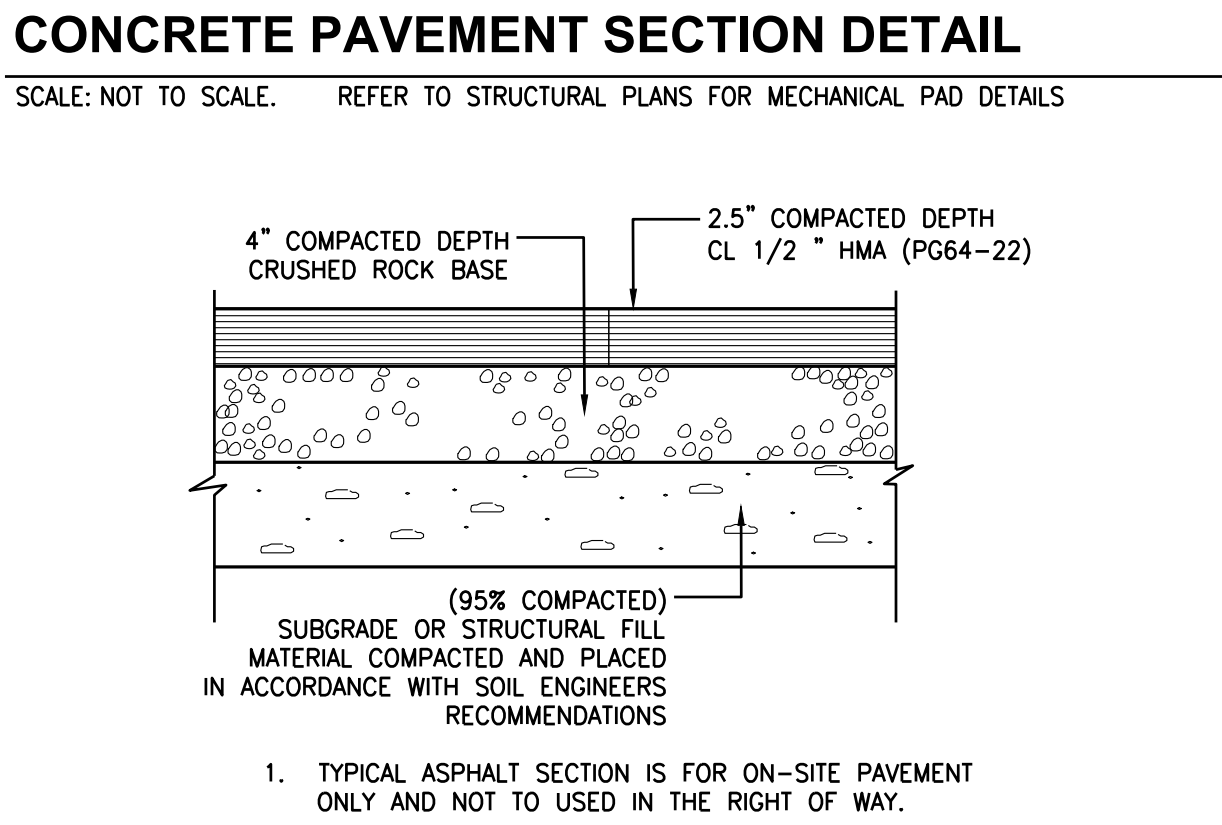
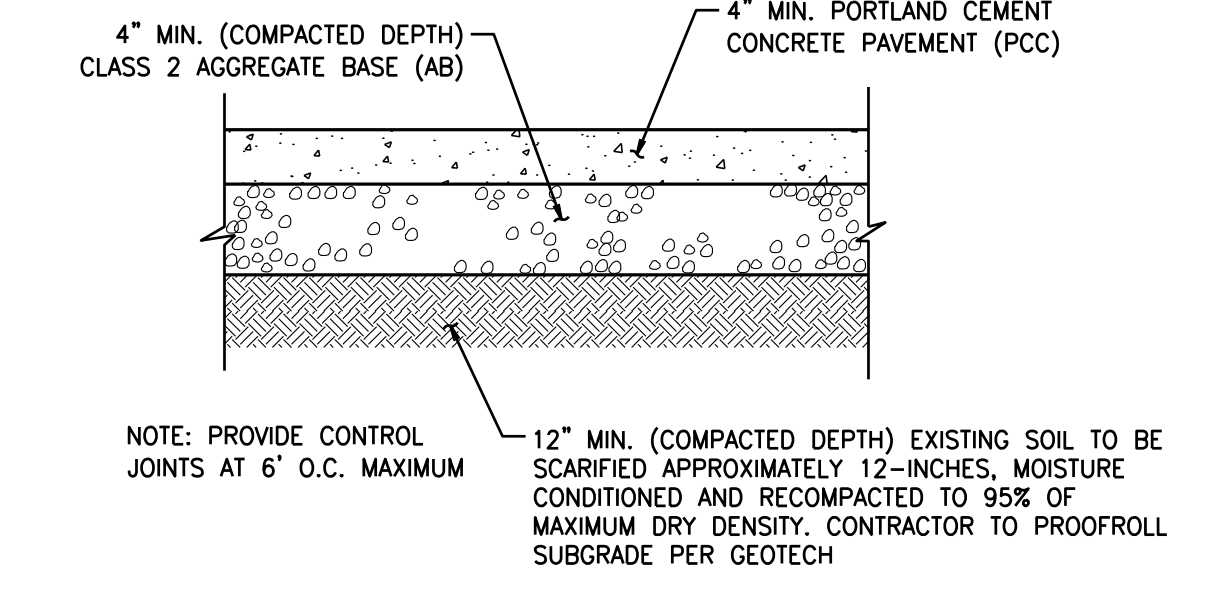
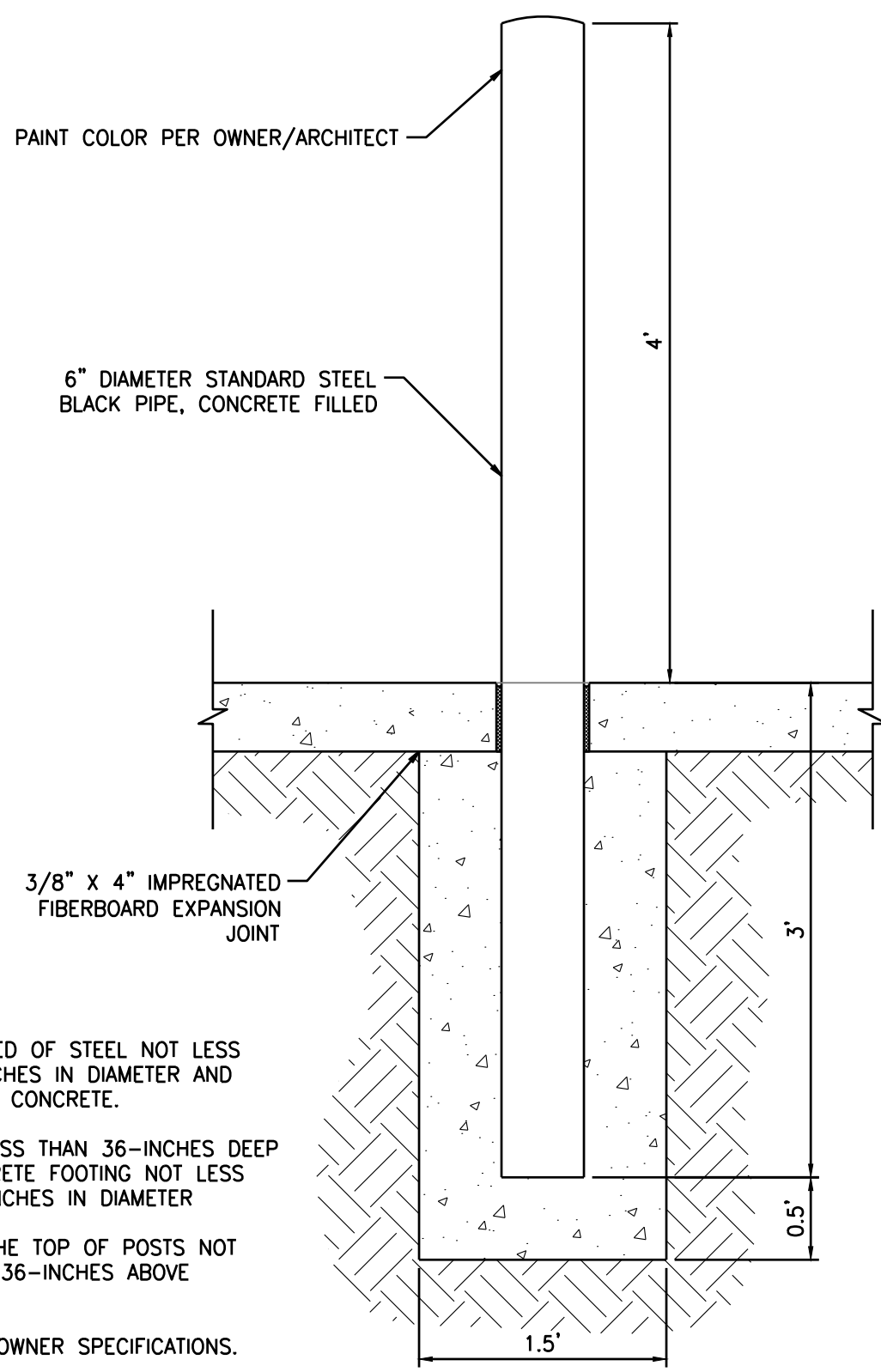
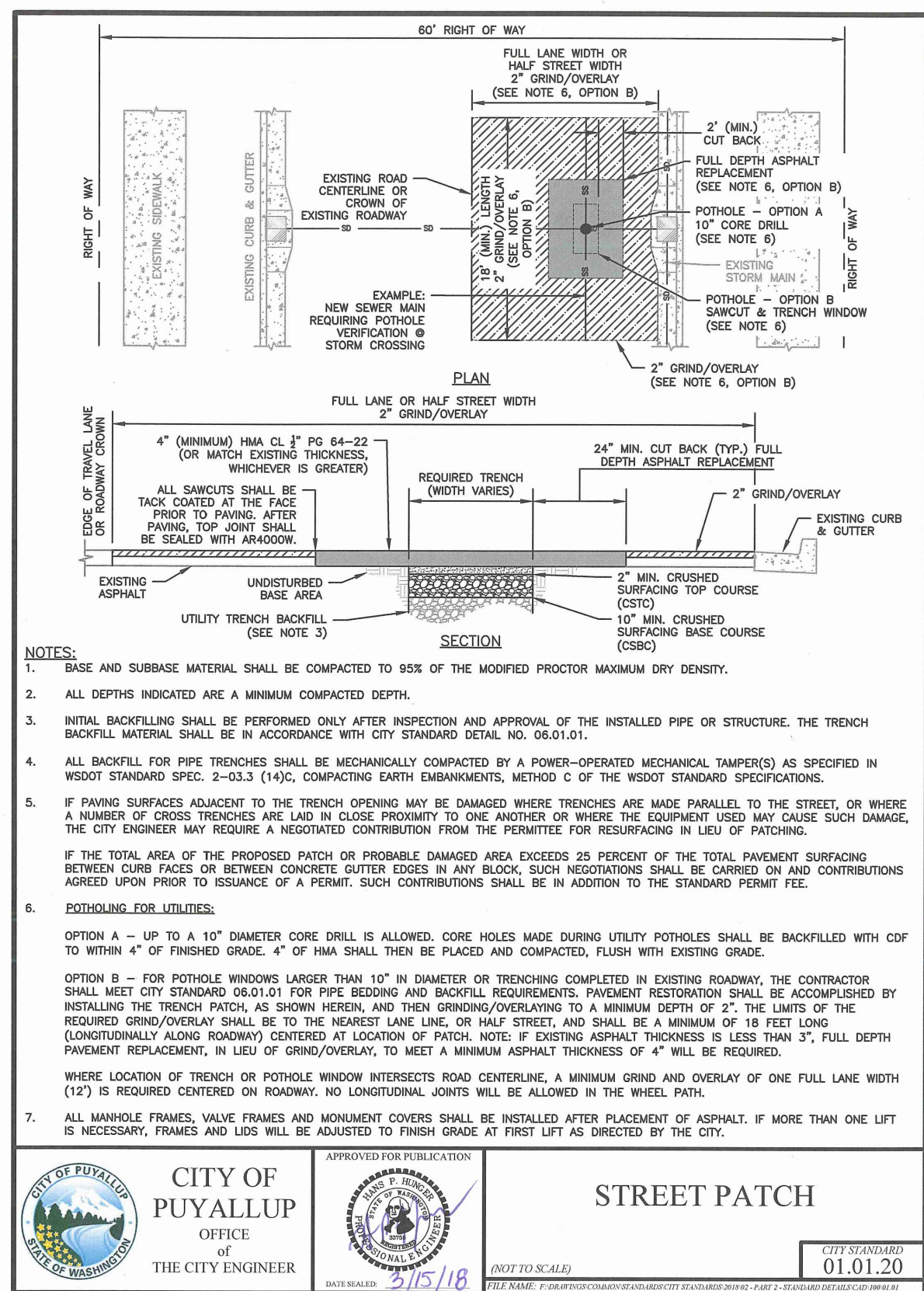
Job Number	18111	Sheet	C9	of	18
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**SITE DETAILS  
FOR**

**CENTERIS VOLTAGE PARK**

A PORTION OF THE NE 1/4, SE 1/4, NW 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**  
OFFICE OF THE CITY ENGINEER

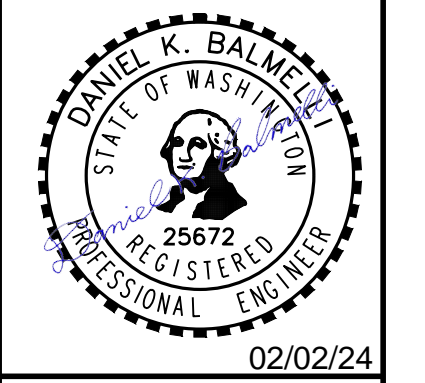
**STREET PATCH**

APPROVED FOR PUBLICATION  
DATE: 01/01/20

Revision	
No.	Date
By	Appr.
Ckd.	

Title: **SITE 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	2/2/24

**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
[barghausen.com](http://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.

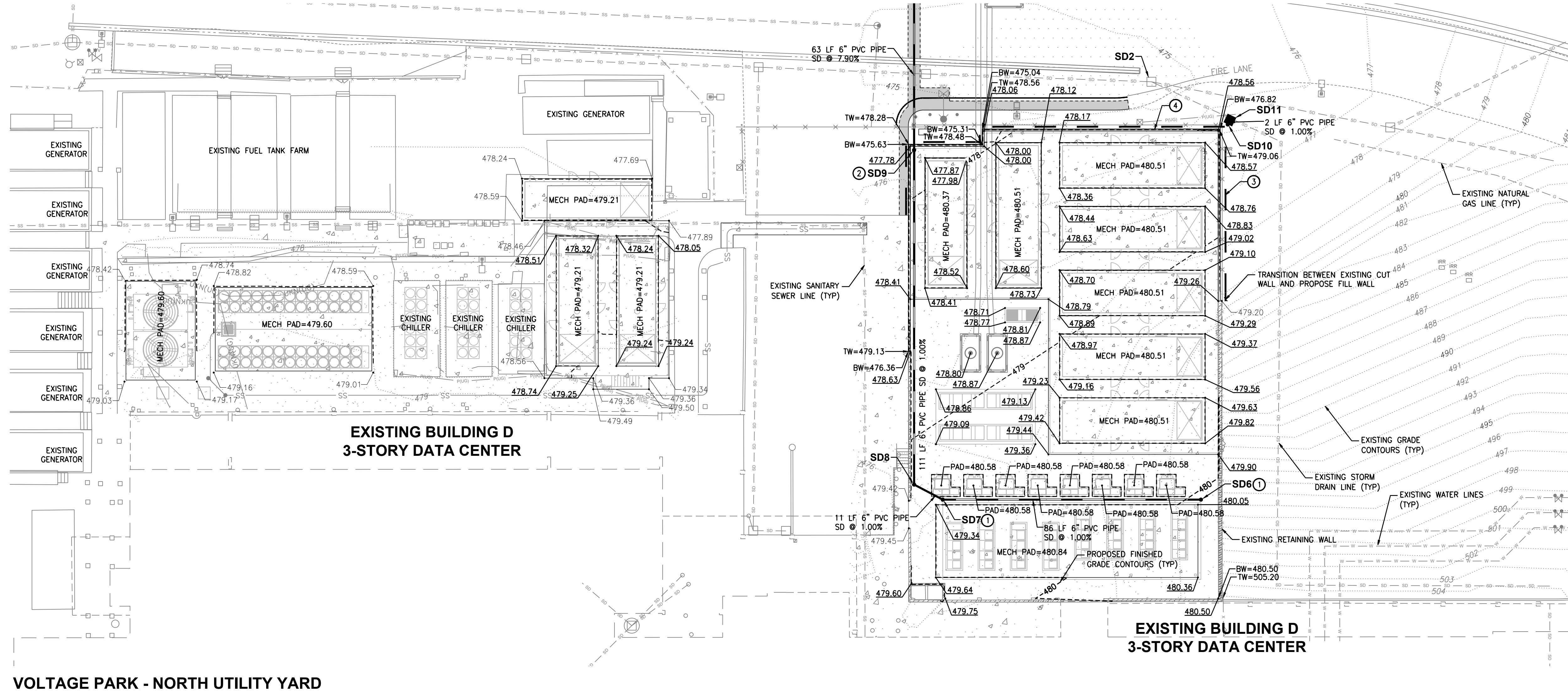
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.  
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.  
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

Job Number	18111
Sheet	C10
of	18



# NORTH GRADING & DRAINAGE PLAN FOR CENTERIS VOLTAGE PARK

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



## VOLTAGE PARK - NORTH UTILITY YARD

SCALE: 1" = 20'

STORM STRUCTURES	
SD2 EXISTING CATCH BASIN N: 871701.10 E: 1197956.11 RIM=474.82 IE=469.54 (10° SE)	SD6 SDCO - 6" N: 671562.45 E: 1197972.52 RIM=480.04 IE=477.50 (6° W)
SD7 SDCO - 6" N: 671562.45 E: 1197886.86 RIM=479.34 IE=476.64 (6° E) IE=476.64 (6° NW)	SD8 SDCO - 6" N: 671567.45 E: 1197877.33 RIM=479.19 IE=476.53 (6° SE) IE=476.53 (6° N)
SD9 YARD DRAIN N: 671678.44 E: 1197877.33 RIM=477.80 IE=475.42 (6° S) IE=473.10 (6° N)	

STORM STRUCTURES	
SD10 SDCO - 6" N: 671688.94 E: 1197981.43 RIM=476.77 IE=473.49 (6° NE)	SD11 CB TYPE 1 - 24" N: 671688.40 E: 1197982.14 RIM=476.65 IE=473.47 (10° SE) IE=473.47 (6° SW) IE=473.47 (10° NW)

### GRADING GENERAL NOTES

- ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. 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.

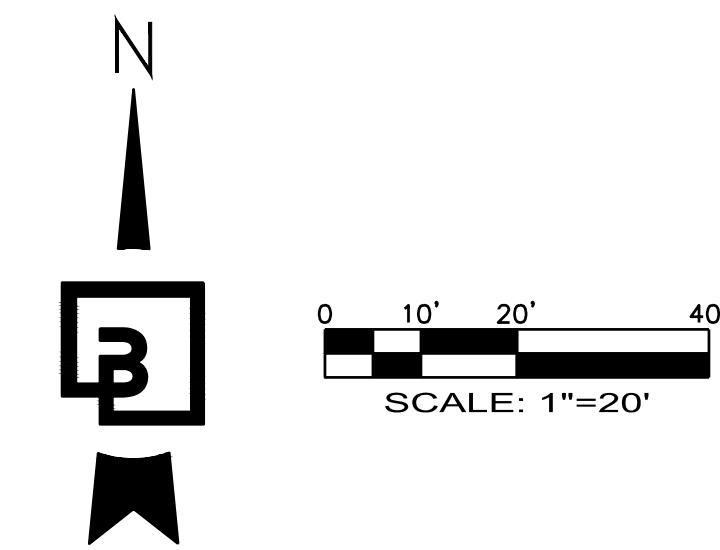
TW - TOP OF WALL  
BW - BOTTOM OF WALL

### STORM DRAIN GENERAL NOTES

- ALL STORM DRAIN (SD) LINES SHALL BE SDR-35 PVC UNLESS OTHERWISE NOTED. 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 C14
- YARD DRAIN PER CITY OF PUYALLUP STANDARD PLAN 02.05.02
- RETAINING WALL FOOTING DRAIN REFER TO STRUCTURAL PLANS
- RETAINING WALL, REFER TO STRUCTURAL PLANS



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

### UTILITY CONFLICT NOTE:

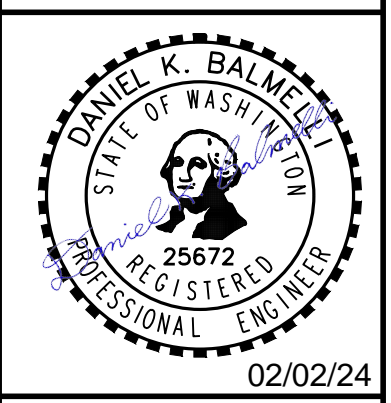
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APPROVED  
BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE: \_\_\_\_\_

No.	Date	By	Appr.	Revision

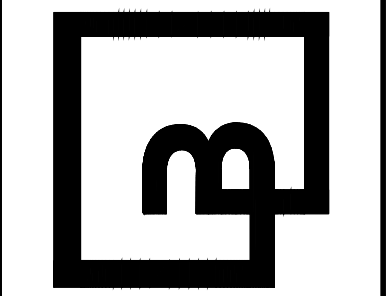
Title: NORTH GRADING & DRAINAGE PLAN  
**CENTERIS VOLTAGE PARK**

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 CNV
Approved DKB	Date 2/2/24	

**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
[barghausen.com](http://barghausen.com)

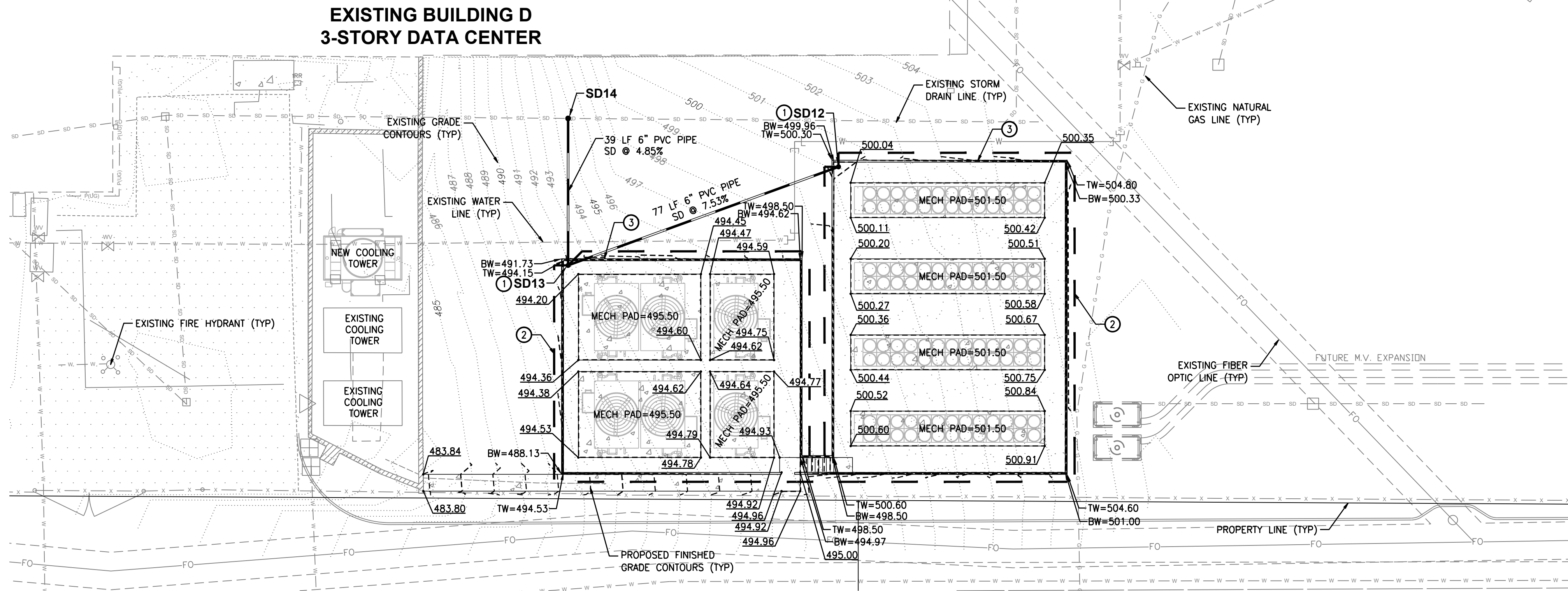


Job Number: 18111  
Sheet: C11 of 18



# SOUTH GRADING & DRAINAGE PLAN FOR CENTERIS VOLTAGE PARK

A PORTION OF THE NE 1/4, SE 1/4, NW 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'

### GRADING GENERAL NOTES

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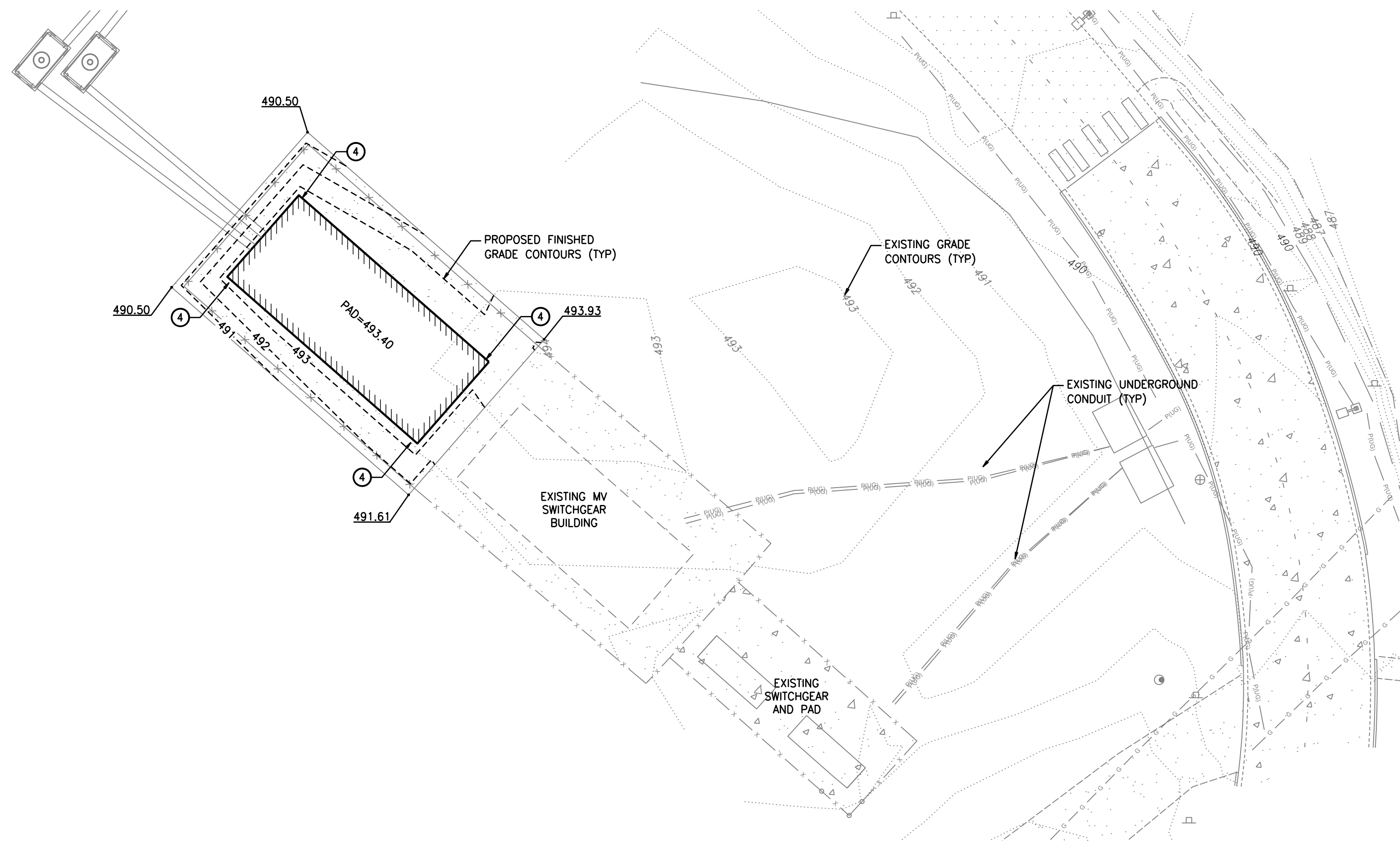
### STORM DRAIN GENERAL NOTES

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### STORM KEYNOTES

- YARD DRAIN PER CITY OF PUYALLUP STANDARD PLAN 02.05.02
- RETAINING WALL FOOTING DRAIN, REFER TO STRUCTURAL PLANS
- RETAINING WALL, REFER TO STRUCTURAL PLANS
- ROOF DRAIN SPLASH BLOCK PER CITY OF PUYALLUP STANDARD PLAN 02.05.05

STORM STRUCTURES	
SD12	AREA DRAIN N: 671300.16 E: 1198040.79 RIM=499.98 IE=497.40 (6" W)
SD13	AREA DRAIN N: 671273.80 E: 1197968.42 RIM=494.17 IE=491.60 (6" E) IE=491.60 (6" N)
SD14	SDCO - 8" N: 671313.11 E: 1197968.42 RIM=494.82 IE=489.69 (6" S)



**VOLTAGE PARK - SUB-STATION**

SCALE: 1" = 20'

### UTILITY CONFLICT NOTE:

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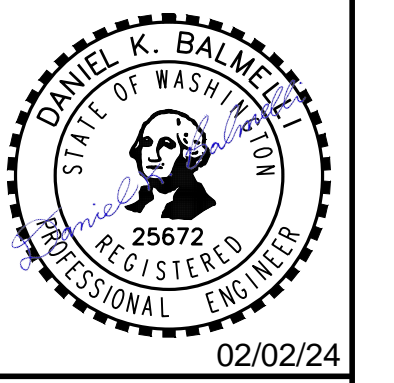
APPROVED  
BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE: \_\_\_\_\_

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

No.	Date	By	Ckd.	Appr.	Revision

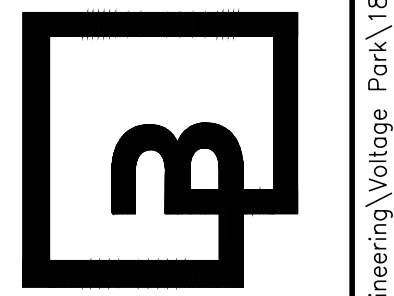
**Title:** SOUTH GRADING & DRAINAGE PLAN  
**CENTERIS VOLTAGE PARK**

**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 2/2/24	

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

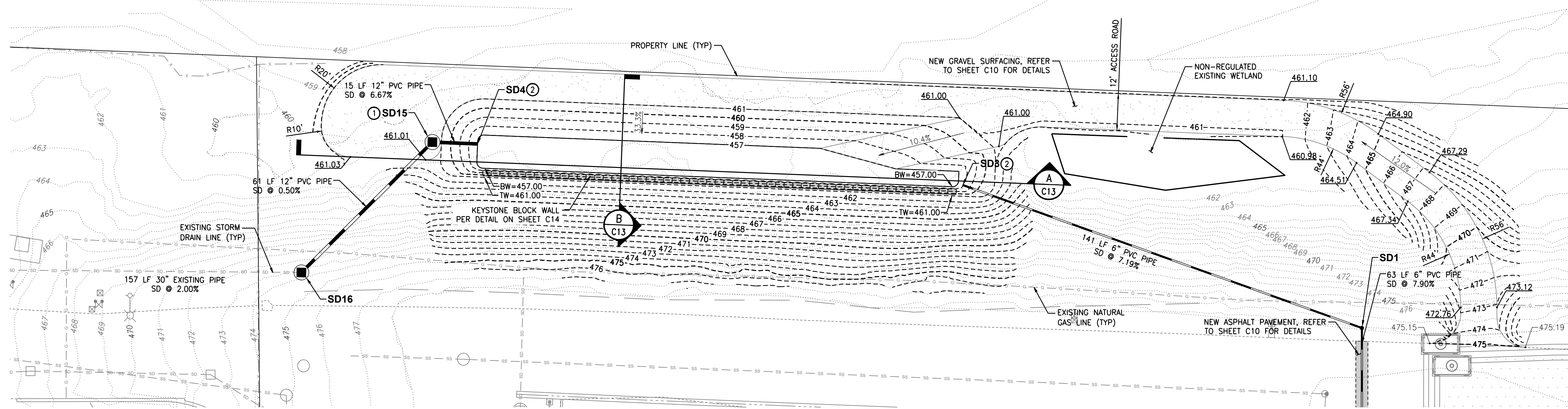


Job Number <b>18111</b>	Sheet <b>C12</b> of <b>18</b>
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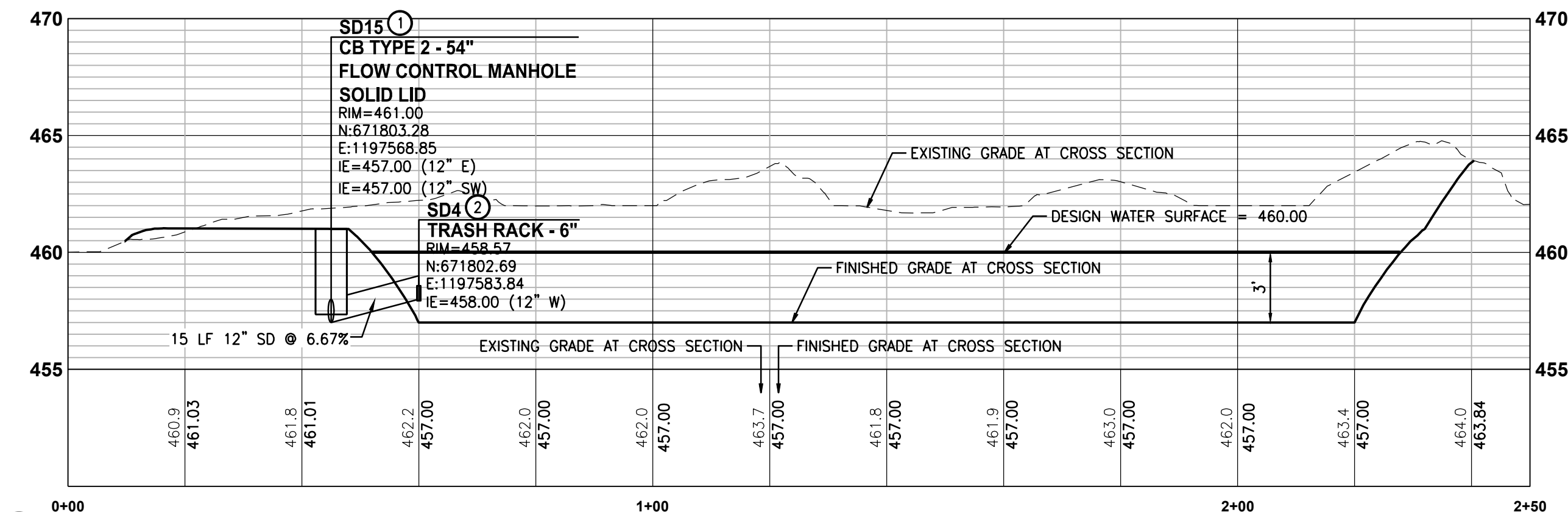
# NORTH UTILITY YARD DETENTION POND FOR CENTERIS VOLTAGE PARK

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



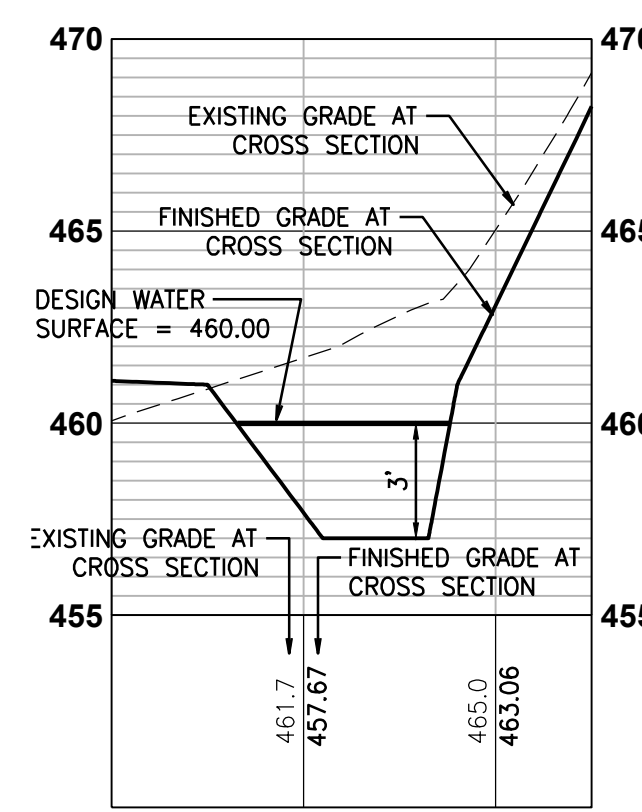
## VOLTAGE PARK - NORTH UTILITY YARD POND

SCALE: 1" = 20'



### A DETENTION POND LENGTH CROSS SECTION

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



### B DETENTION POND WIDTH CROSS SECTION

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

STORM STRUCTURES	
SD1 SDCO - 6" N: 671741.58 E: 119787.33 RIM=478.00 IE=468.11 (6" S) IE=468.11 (6" W)	
SD3 TRASH RACK - 6" N: 671789.03 E: 1197744.88 RIM=458.57 IE=458.00 (6" E)	
SD4 TRASH RACK - 6" N: 671802.69 E: 1197583.84 RIM=458.57 IE=458.00 (12" W)	
SD15 CB TYPE 2 - 54" FLOW CONTROL MANHOLE SOLID LID N: 671803.28 E: 1197568.85 RIM=461.00 IE=457.00 (12" E) IE=457.00 (12" SW)	
SD16 STORM DRAIN MANHOLE - 54" N: 671760.01 E: 1197525.36 RIM=473.33 IE=456.69 (12" NE) IE=451.69 (30" W)	

### GRADING GENERAL NOTES

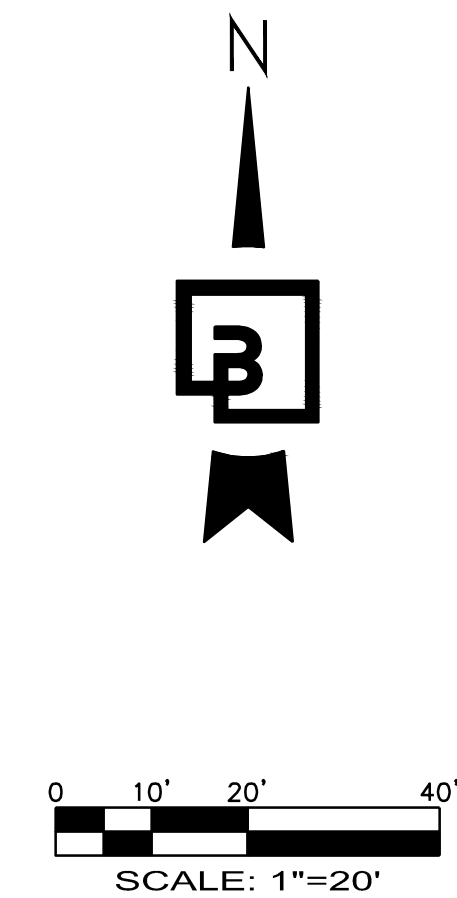
- ALL GRADING AND PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING AND IMPROVEMENTS ARE SUBJECT TO THE OBSERVATION OF THE PUBLIC WORKS DEPARTMENT.
- ALL EXISTING UTILITY STRUCTURE LIDS THAT FALL WITHIN THE AREA OF 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

### 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

- FLOW CONTROL MANHOLE PER CITY OF PUYALLUP STANDARD PLAN 02.01.07
- TRASH RACK PER CITY OF PUYALLUP STANDARD PLAN 02.02.03



### 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.

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

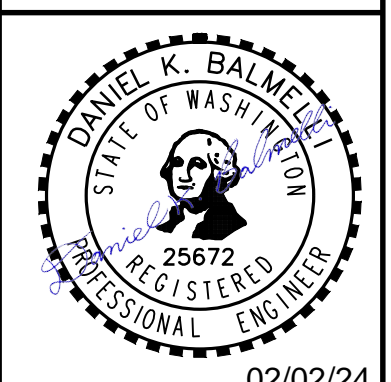
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BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE: \_\_\_\_\_

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.

No.	Date	By	Appr.	Revision

Title: NORTH UTILITY YARD DETENTION POND  
**CENTERIS VOLTAGE PARK**

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



Date: 02/02/24

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

Barghausen Consulting Engineers, Inc.  
18215 72nd Avenue South  
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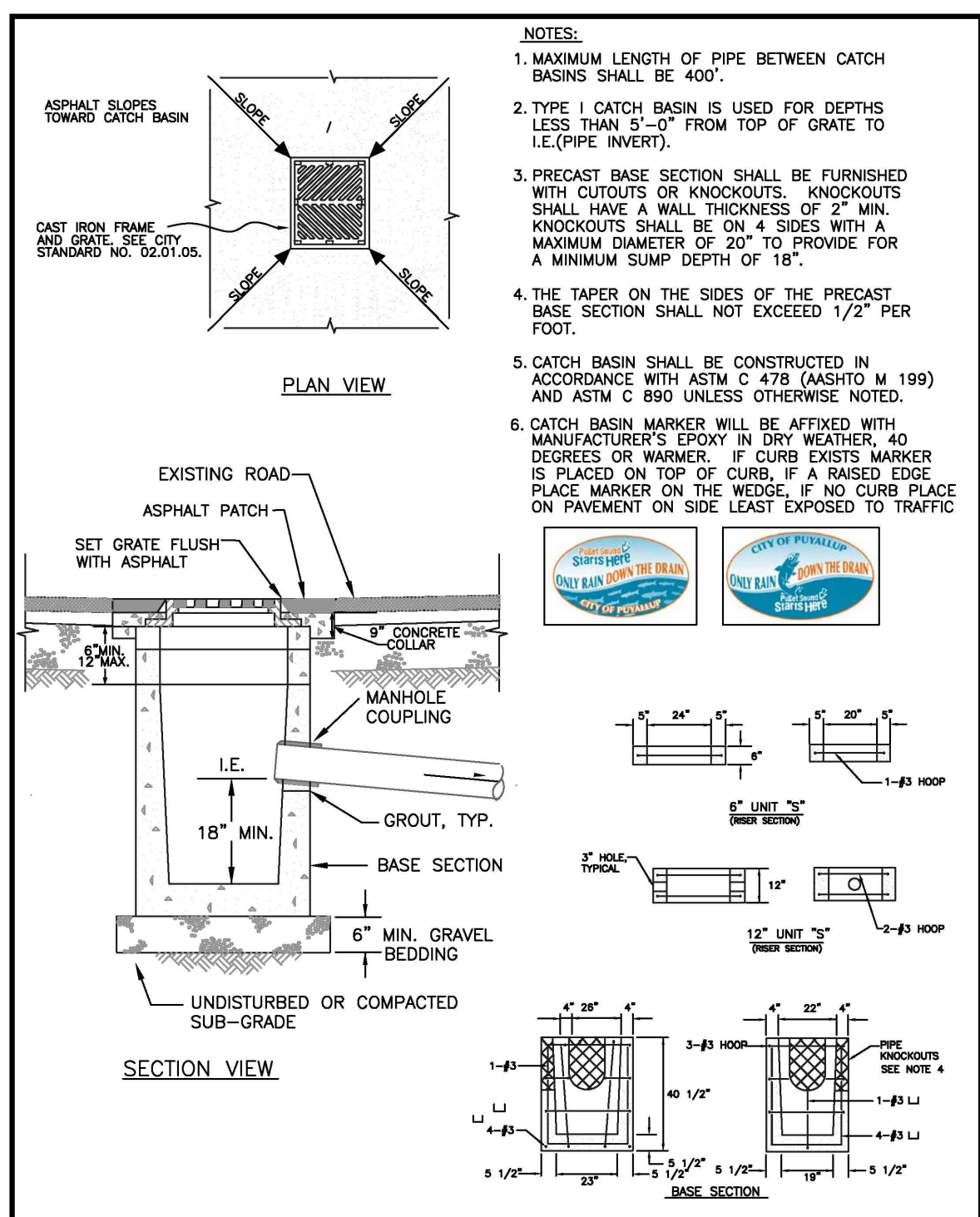
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Sheet: C13 of 18



**GRADING & DRAINAGE DETAILS  
FOR**

**CENTERIS VOLTAGE PARK**

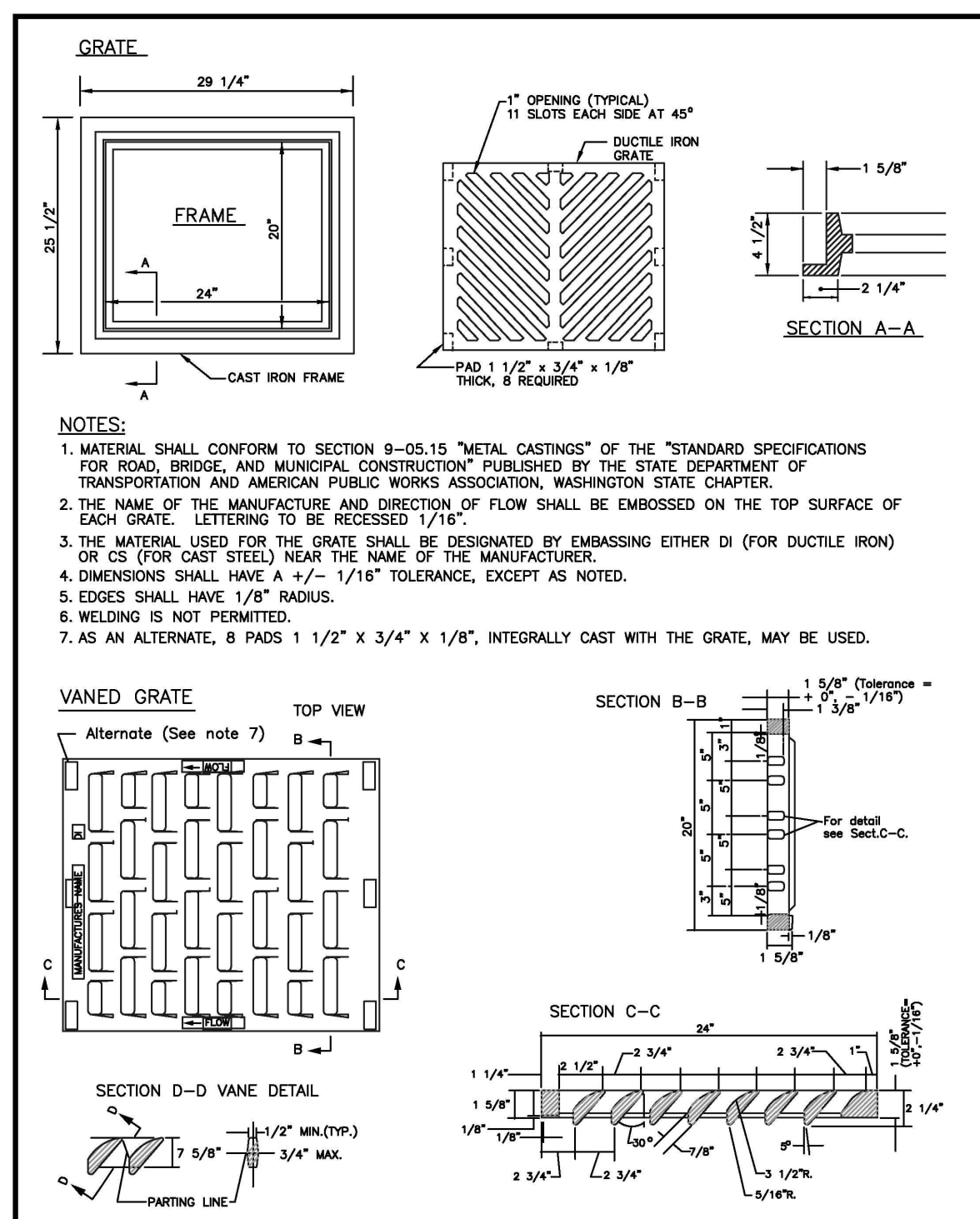
A PORTION OF THE NE 1/4, SE 1/4, NW 1/4, OF THE SE 1/4 OF SEC. 3, TWN. 19 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



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

**CATCH BASIN TYPE 1 (AREA DRAIN)**

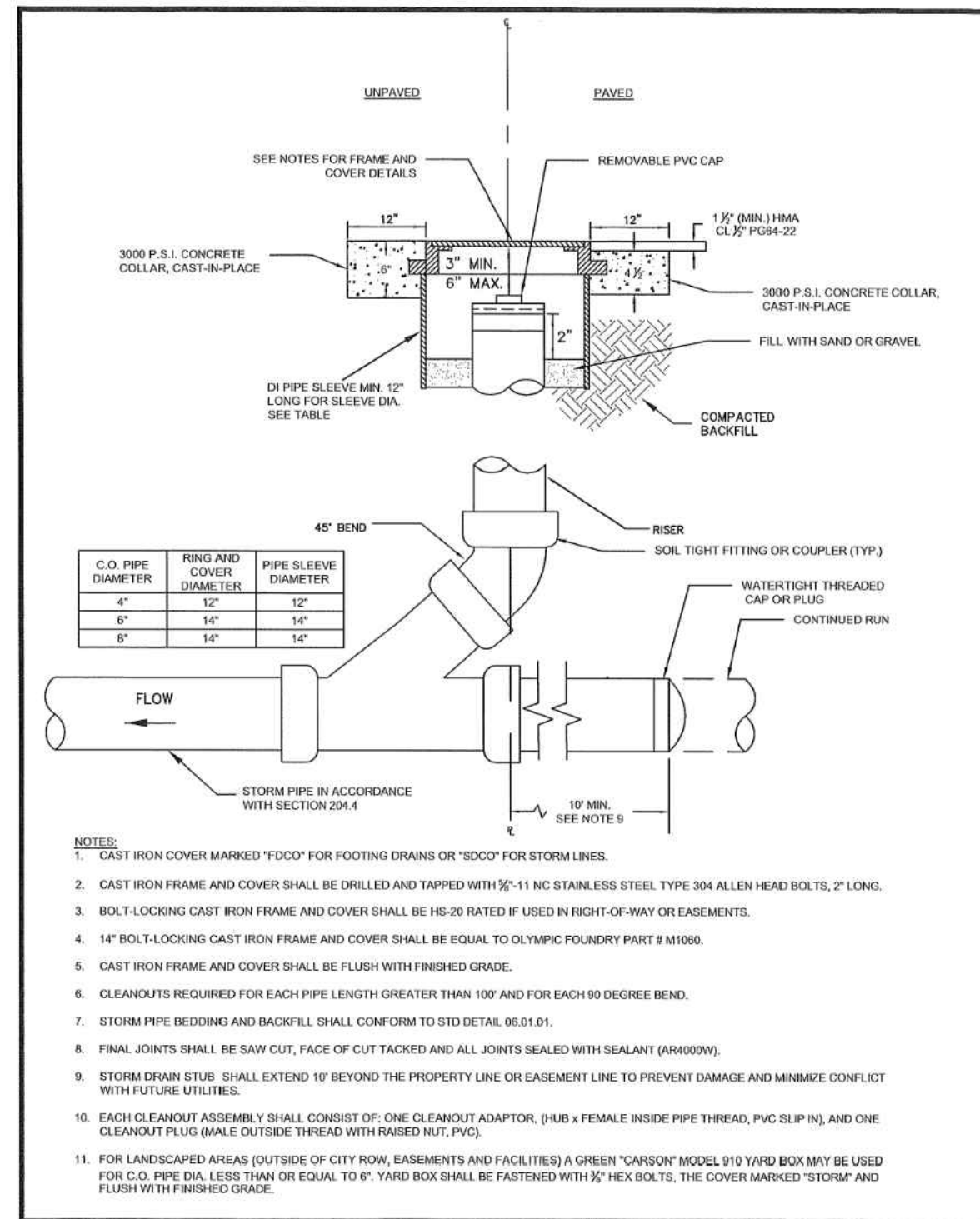
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**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**CATCH BASIN FRAME AND GRATE/VANED GRATE**

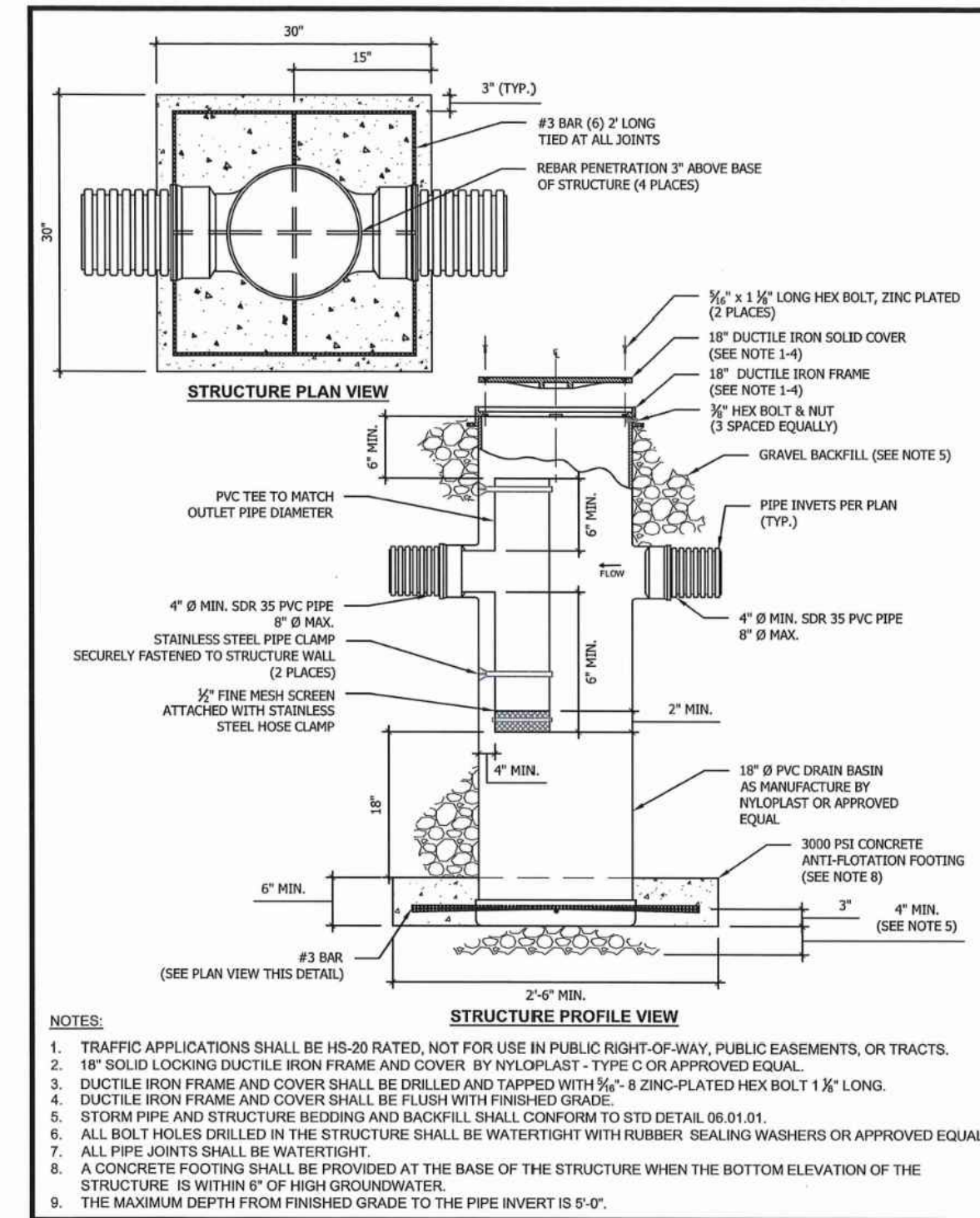
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**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING

**STORM DRAIN CLEANOUT**

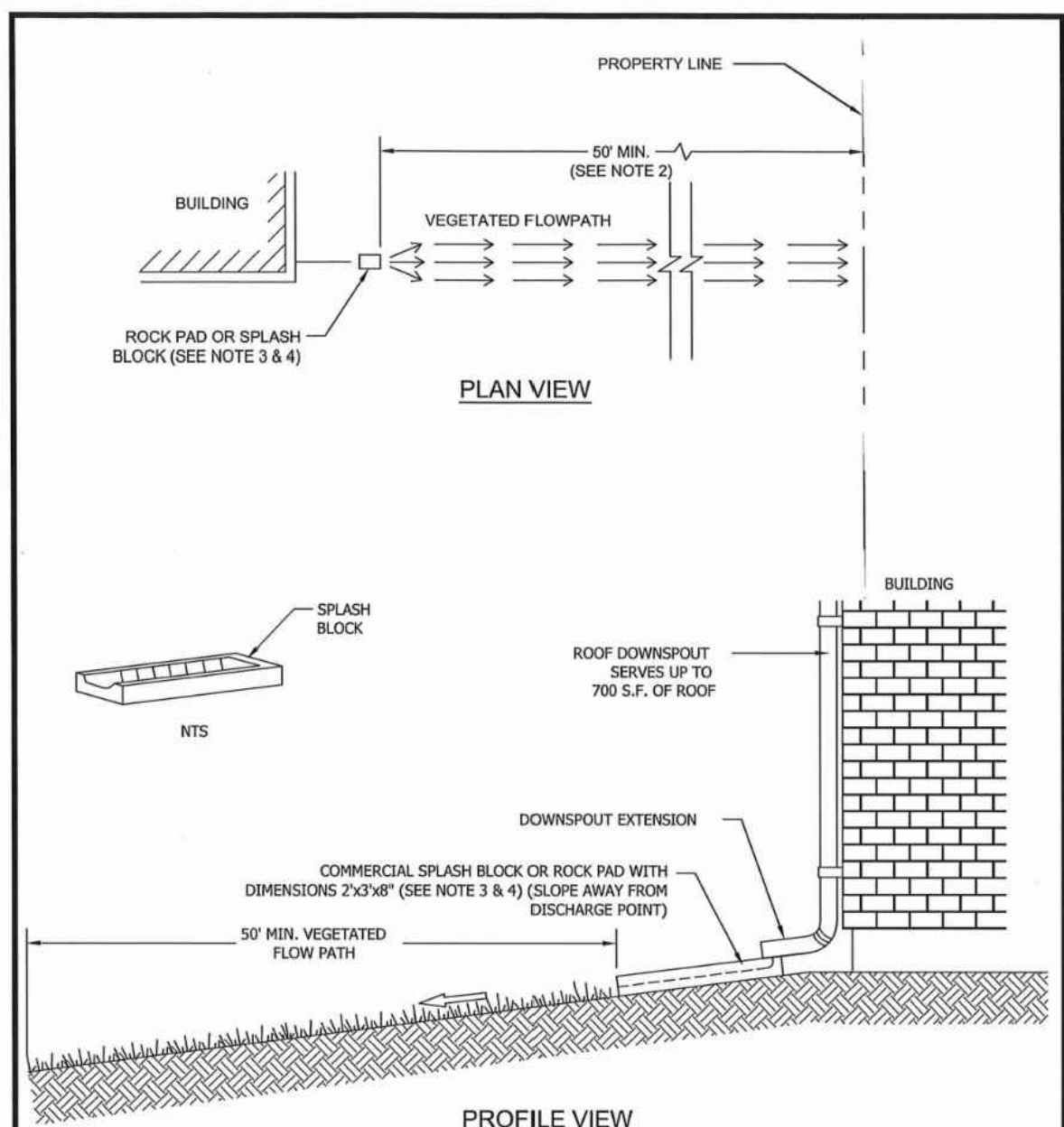
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**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING

**YARD DRAIN**

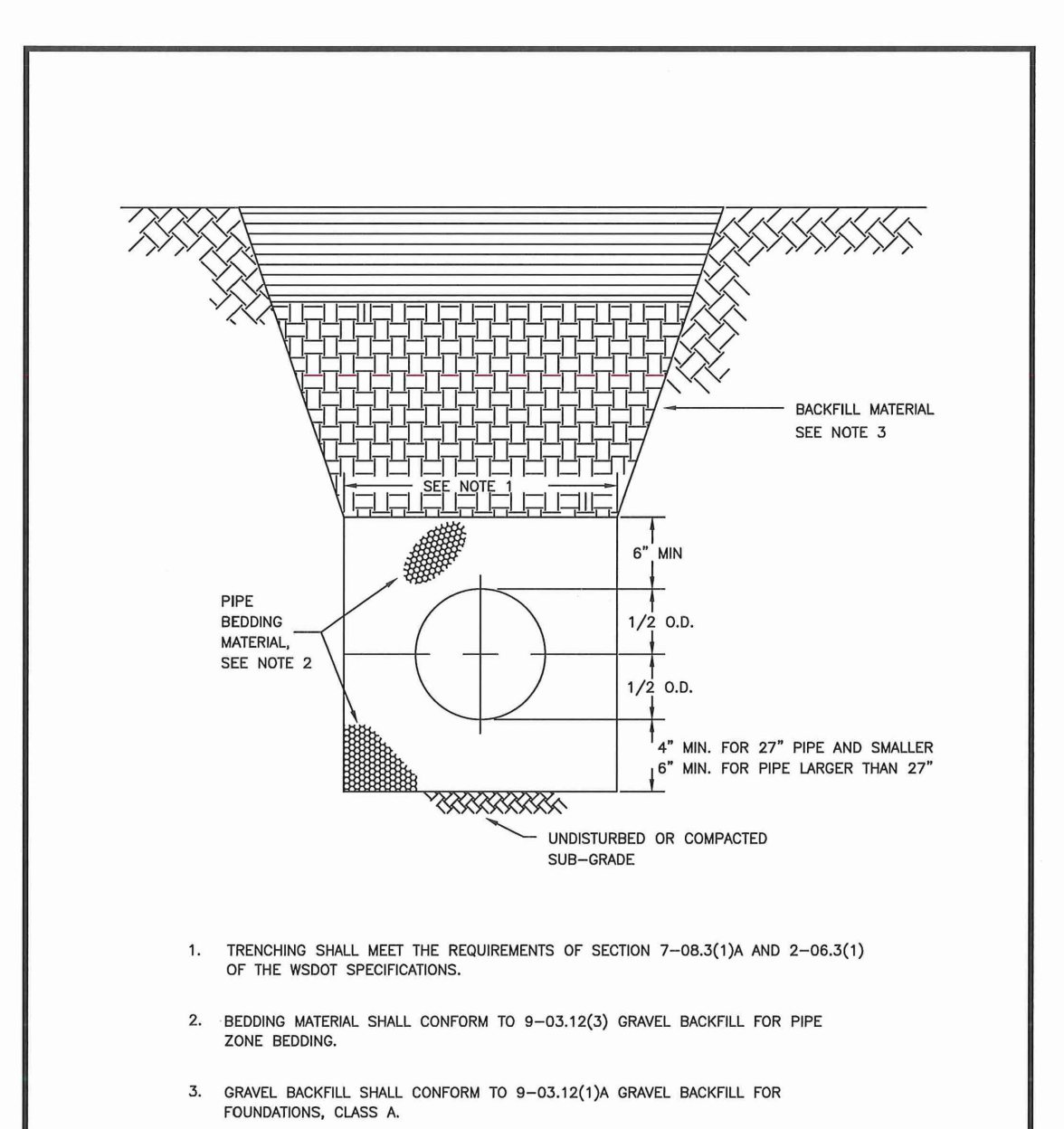
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**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING

**DOWNSPOUT SPLASHBLOCK**

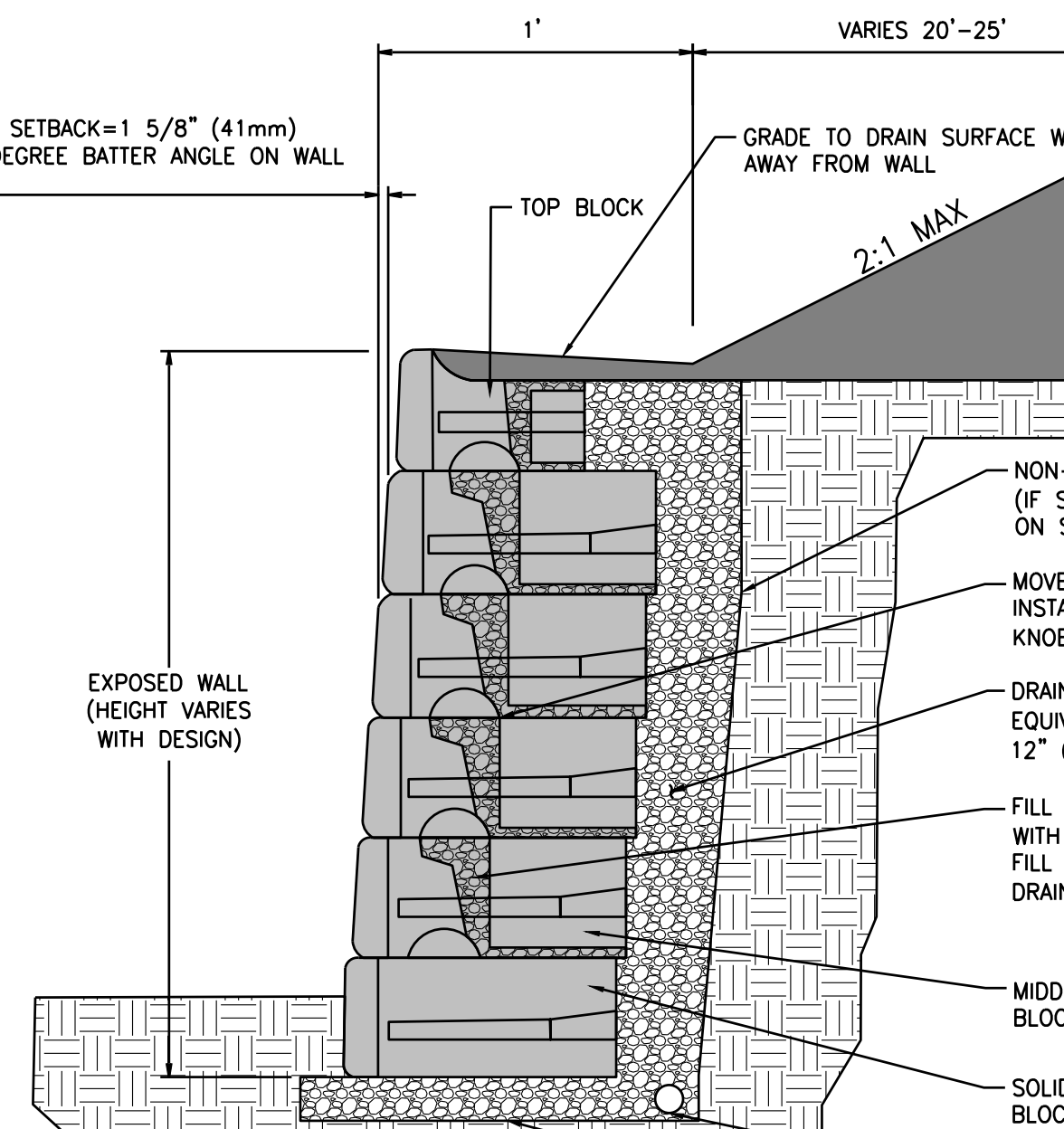
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**CITY OF PUYALLUP**  
 OFFICE OF THE CITY ENGINEER

**PIPE TRENCHING BEDDING AND BACKFILL**

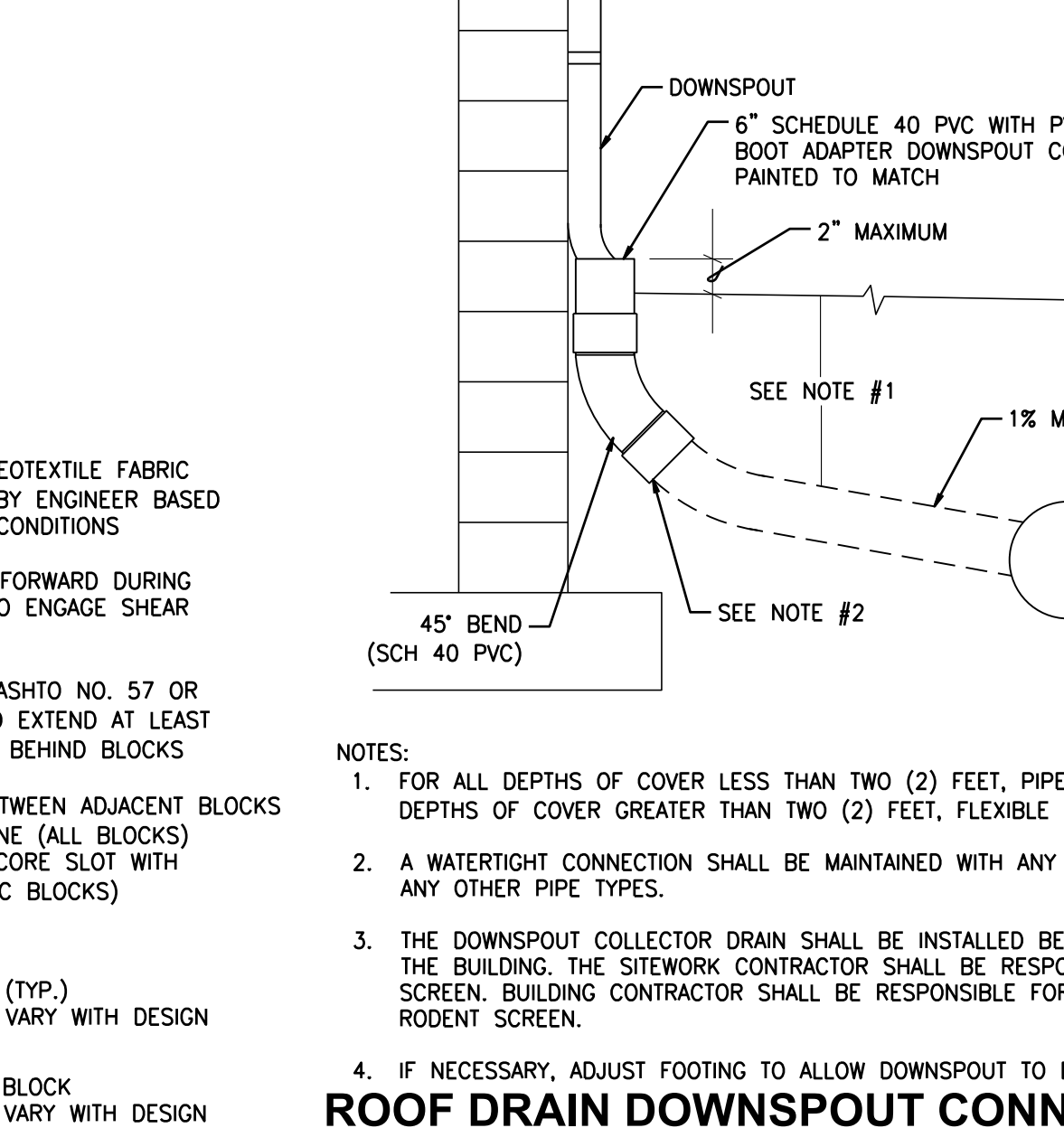
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**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING

**KEYSTONE BLOCK WALL**

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature]  
 FILE NO: [Number] DATE APPROVED: [Date] DATE ISSUED: [Date] SCALE: [Scale] CITY STANDARD: [Number]



**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING

**ROOF DRAIN DOWNSPOUT CONNECTION**

DESIGNED BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature] CITY ENGINEER: [Signature]  
 FILE NO: [Number] DATE APPROVED: [Date] DATE ISSUED: [Date] SCALE: [Scale] CITY STANDARD: [Number]

**UTILITY CONFLICT NOTE:**  
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APPROVED

BY: \_\_\_\_\_  
 CITY OF PUYALLUP  
 DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

**Job Number** 18111

**Sheet** C14 of 18

**Title:** GRADING & DRAINAGE DETAILS

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

**Professional Engineer:** DANIEL K. BALMEER, No. 25672, Registered Professional Engineer, State of Washington, Exp. 02/02/24

**Scale:** Horizontal N/A, Vertical N/A

**Designed:** KDM  
**Drawn:** KDM  
**Checked:** CMV  
**Approved:** DKB  
 Date: 2/2/24

**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"



GRADING & DRAINAGE DETAILS  
FOR

**CENTERIS VOLTAGE PARK**

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

**MANHOLE RING AND COVER**  
THE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2" RAISED LETTERS. SEE CITY STANDARD DETAIL NO. 06.01.02 FOR ADDITIONAL INFORMATION.

**NOTES:**

1. THE CONSTRUCTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7-05 AND ASTM C 478.
2. THE FACE OF NEAT 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. 06.01.03.
6. MANHOLE STEP AND LADDER SHALL CONFORM TO CITY STANDARD DETAILS NO. 06.01.04 AND 06.01.05.

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

02.01.01

**MANHOLE RING AND COVER**

**NOTES FOR FLOW CONTROL MANHOLE:**

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

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

02.01.07

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

02.01.08

**NOTES:**

1. ALL STEEL PARTS MUST BE GALVANIZED AND ASPHALT COATED (TREATMENT 1 OR BETTER).
2. TRASH RACKS SHALL BE INSTALLED AT ALL OPEN ENDS OF STORM DRAINAGE PIPE 12" DIA. AND GREATER.

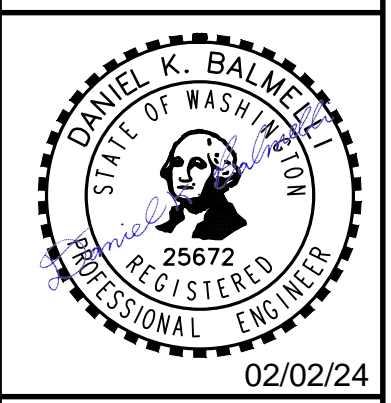
**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

02.02.03

Revision	No.	Date	By	Appr.

Title: **GRADING & DRAINAGE DETAILS**  
**CENTERIS VOLTAGE PARK**

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



Scale:	Horizontal	N/A
	Vertical	N/A
Designed	KDM	
Drawn	KDM	
Checked	CMV	
Approved	DKB	
Date	2/2/24	

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18215 72nd Avenue South  
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425.251.6222 [barghausen.com](http://barghausen.com)

Job Number: **18111**  
Sheet: **C15** of **18**

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DEVELOPMENT ENGINEERING  
DATE:                     

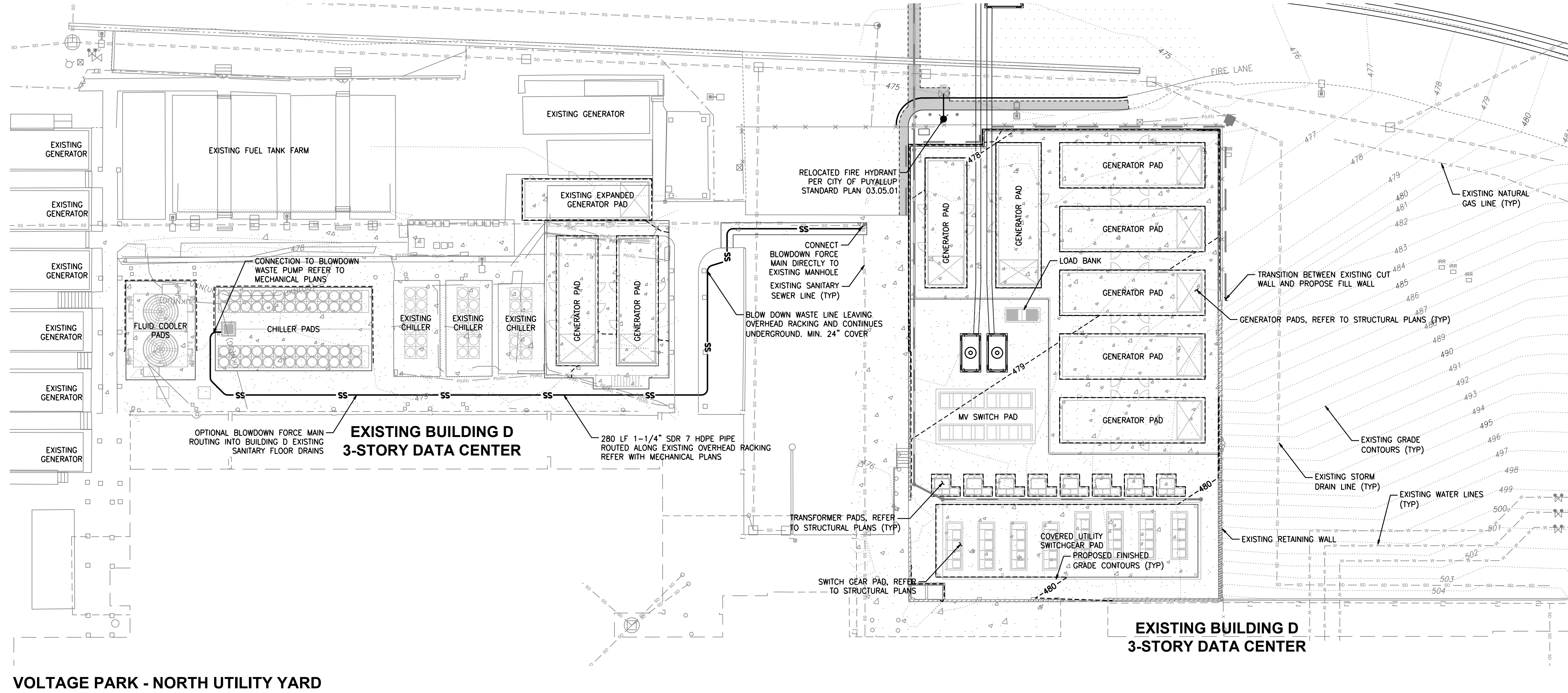
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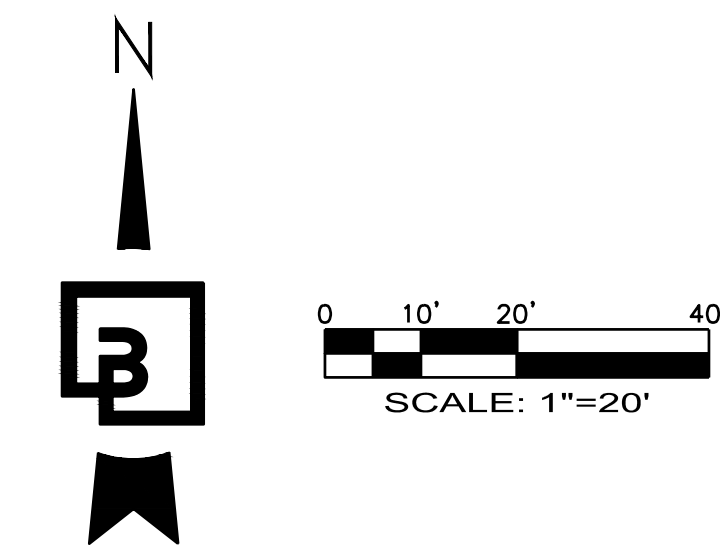
# NORTH UTILITY PLAN FOR **CENTERIS VOLTAGE PARK**

A PORTION OF THE NE 1/4, SE 1/4, NW 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'



**CALL BEFORE YOU DIG:  
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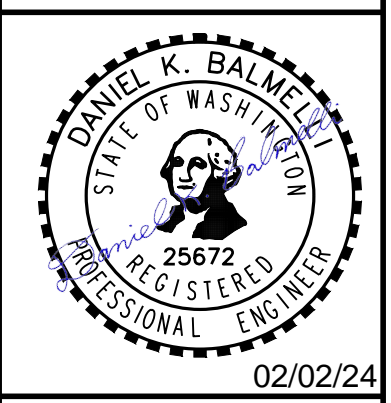
APPROVED  
BY: CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE: \_\_\_\_\_

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No.	Date	By	Ckd.	Appr.	Revision

Title: **NORTH UTILITY PLAN  
CENTERIS  
VOLTAGE PARK**

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



Scale:	Horizontal	Vertical
	1" = 20'	N/A
Designed	KDM	
Drawn	KDM	
Checked	CMV	
Approved	DKB	
Date	2/2/24	

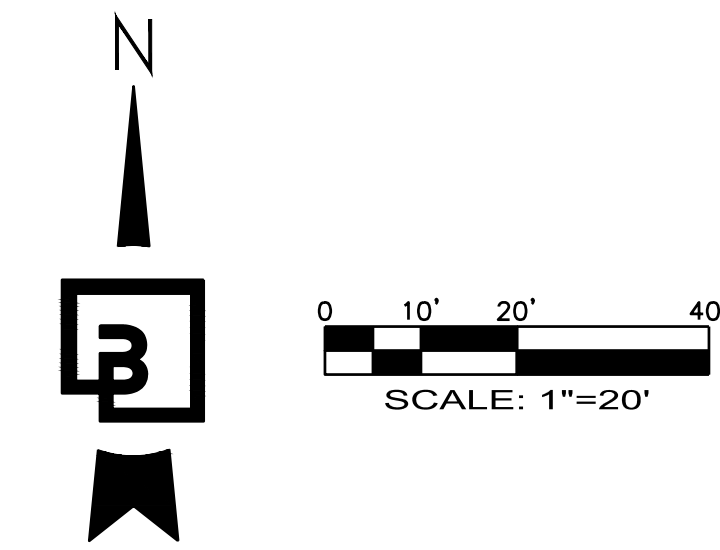
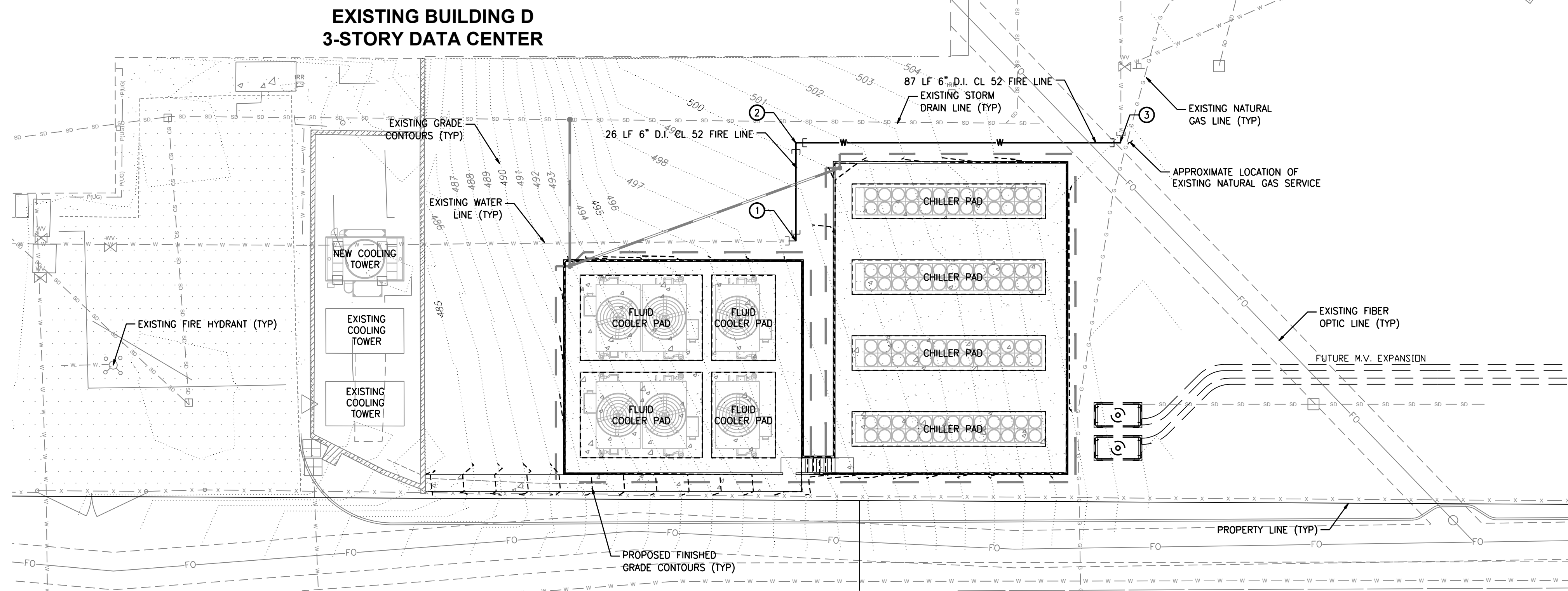
**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222 [barghausen.com](http://barghausen.com)

Job Number: **18111**  
Sheet: **C16** of **18**



# SOUTH UTILITY PLAN FOR CENTERIS VOLTAGE PARK

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



### WATER FITTING KEYNOTES

- CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING 6" FIRE LINE
- ① N: 671280.58  
E: 1198029.04  
1-6" 90° BEND (MJ X MJ)  
THRUST BLOCK PER COP STANDARD DETAIL 03.02.01  
NOTIFY ENGINEER OF ANY DISCREPANCIES
  - ② N: 671306.91  
E: 1198029.04  
1-6" 90° BEND (MJ X MJ)  
THRUST BLOCK PER COP STANDARD DETAIL 03.02.01  
CONTRACTOR TO FIELD LOCATE AND VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING 6" FIRE LINE
  - ③ N: 671306.91  
E: 1198116.17  
1-6" 90° BEND (MJ X MJ)  
THRUST BLOCK PER COP STANDARD DETAIL 03.02.01  
NOTIFY ENGINEER OF ANY DISCREPANCIES

### VOLTAGE PARK - SOUTH UTILITY YARD

SCALE: 1" = 20'

Revision									
No.	Date	By	Ckd.	Appr.					
<b>Title:</b> SOUTH UTILITY PLAN <b>CENTERIS VOLTAGE PARK</b>									

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	2/2/24
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 18215 72nd Avenue South  
 Kent, WA 98032  
 425.251.6222 [barghausen.com](http://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 POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 1-800-424-5555 AND THEN POTHOLING 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.

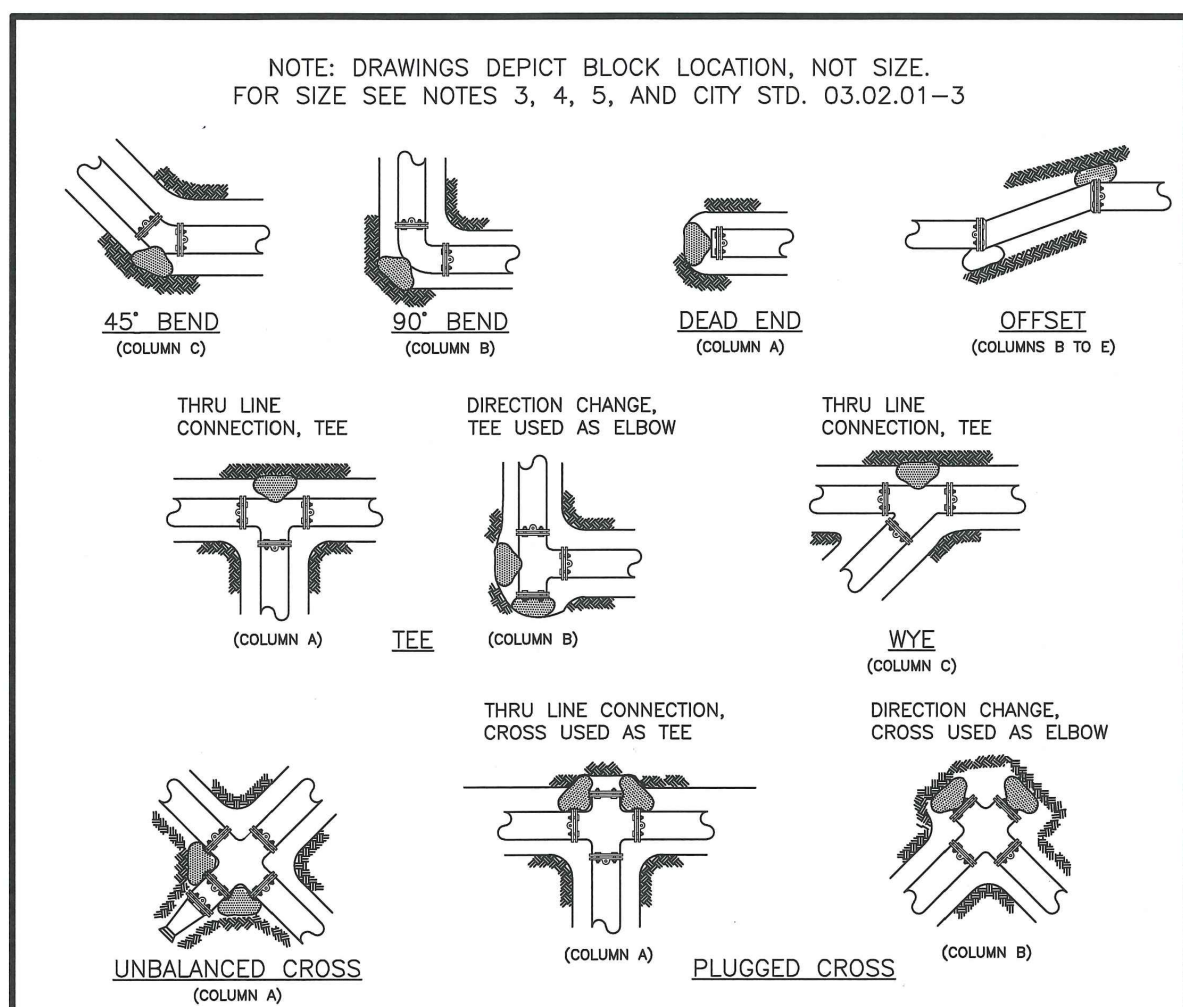
Job Number	18111	Sheet	C17	of	18
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UTILITY DETAILS  
FOR

**CENTERIS VOLTAGE PARK**

A PORTION OF THE NE 1/4, SE 1/4, NW 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 BEDDING 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

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**HORIZONTAL THRUST BLOCKING**

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.

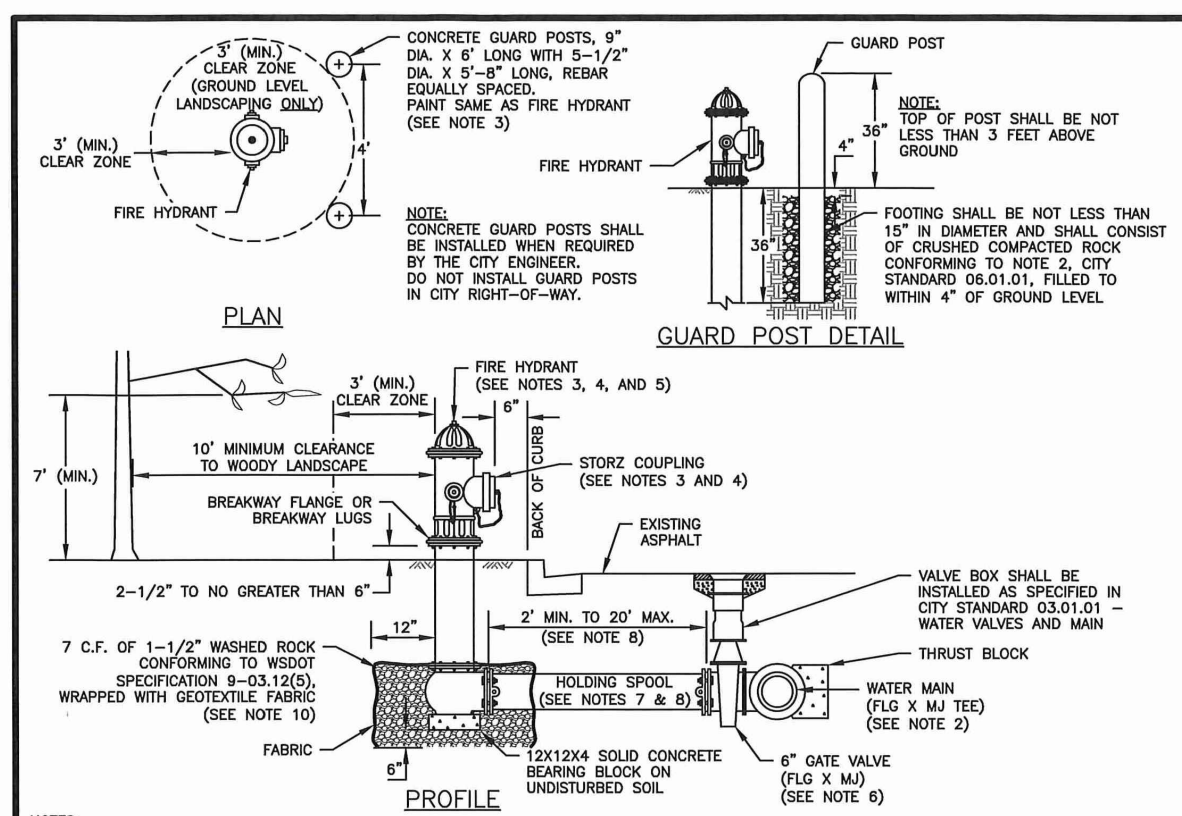
- NOTES:**
- TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.  
EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI:  
 $39,985 \times \frac{300}{200} = 59,978$  LBS
  - TO DETERMINE THE BEARING AREA OF THE THRUST 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  
 $59,978 \text{ LBS} \div 3000 \text{ LBS/SF} = 20 \text{ SF OF AREA}$
  - CONTRACTOR TO PROVIDE BEDDING 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.

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**THRUST BLOCKING TABLE**

CITY STANDARD: 03.02.01-3



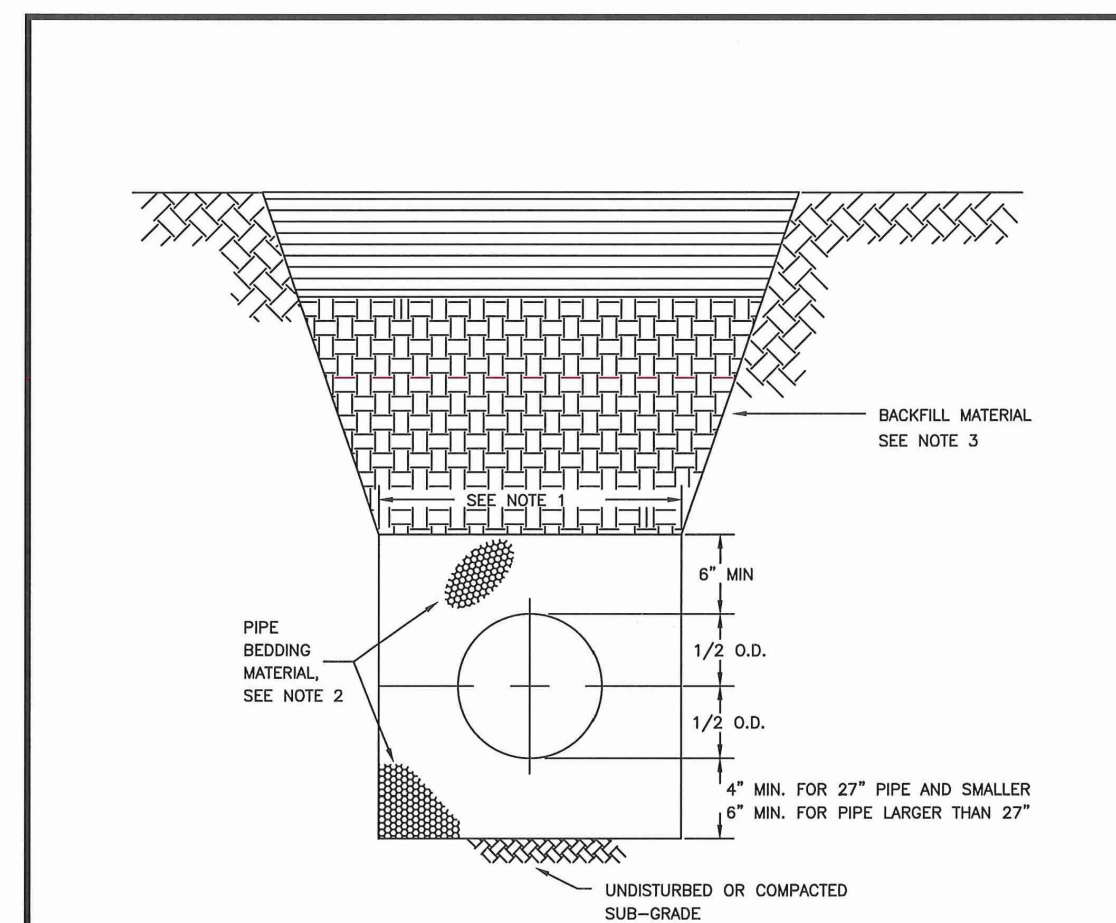
- NOTES:**
- ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
  - WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
  - THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, RUST-OLEUM SAFETY YELLOW #7543 (TWO COATS) OR AN APPROVED EQUAL. THE STORZ 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" PLUMBER PORT (FOR TACHOMA STEAMER PORT THREAD) WITH A 5" STORZ COUPLING AND BLEND 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 1-1/4" MAIN VALVE OPERATOR). 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 WATEROUS.
  - 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-BORED BRONZE-MOUNTED, NON-RISING STEM, COUNTER-CLOCKWISE OPERING, MECHANICAL JOINT BY PLANNED. 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 MEGA-LUG CONNECTORS OR APPROVED EQUAL WITH CLASS 52 DUCTILE IRON PIPE.
  - IF DISTANCE BETWEEN WATER MAIN AND FIRE HYDRANT IS GREATER THAN 17 FEET, RESTRAINED JOINTS ARE REQUIRED ON ANY ADDITIONAL JOINTS. THE MAXIMUM 6-INCH HYDRANT RUN ALLOWED IS 20 FEET. ANY PROPOSED HYDRANT RUN EXCEEDING 20' IN LENGTH SHALL BE SIZED USING AN ENGINEERED HYDRAULIC FLOW MODEL. ANY HYDRANT RUN EXCEEDING 50 FEET IN LENGTH SHALL BE NO LESS THAN 8-INCHES IN DIAMETER.
  - FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A BUILDING OR STRUCTURE.
  - THE CONTRACTOR SHALL PLACE A 6 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA, ENDS TO OVERLAP.
  - A FLUORESCENT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY CITY ENGINEER.
  - A MINIMUM THREE FOOT (3') RADIOUS UNOBSTRUCTED CLEAR ZONE (WORK AREA) SHALL BE PROVIDED AROUND ALL FIRE HYDRANTS. ADDITIONALLY, NO WOODY LANDSCAPE SHALL BE PLANTED WITHIN TEN FEET (10') OF ANY FIRE HYDRANT. OVERHANGING BRANCHES OF TREES ADJACENT TO HYDRANTS SHALL HAVE A MAINTAINED VERTICAL CLEARANCE OF SEVEN (7) FEET ABOVE FINISHED GRADE OF THE FIRE HYDRANT.

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**FIRE HYDRANT ASSEMBLY**

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.

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**PIPE TRENCHING BEDDING AND BACKFILL**

CITY STANDARD: 06.01.01

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APPROVED

BY: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

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No.	Date	By	Appr.	Revision

UTILITY DETAILS  
**CENTERIS  
VOLTAGE PARK**

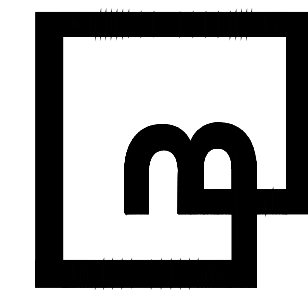
For: **BENAROYA CAPITAL, LLC**  
**CENTERIS DATA CENTERS**  
9675 SE 36TH ST, SUITE 115  
MERCER ISLAND, WA 98040



Scale: Horizontal N/A, Vertical N/A

Designed: KDM  
Drawn: KDM  
Checked: CMV  
Approved: DKB  
Date: 2/2/24

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