THIS DOCUMENT AND ATTACHMENT(S) ARE AVAILABLE FOR DOWNLOAD AT <u>http://www.bxwa.com/bxwa_toc/pub/1687/toc.html</u> AN EMAIL NOTIFICATION WAS SENT TO REGISTERED PLANHOLDERS. FAILURE TO ACKNOWLEDGE RECEIPT ON THE BID FORM DOES NOT AFFECT THE BIDDER'S OBLIGATION FOR COMPLIANCE.



WASHINGTON STATE PARKS AND RECREATION COMMISSION WALLACE FALLS STATE PARK WELL DRILLING CONSTRUCTION, DEVELOPMENT, AND TESTING NW-C4002

DATE: February 21, 2025

ATTENTION TO PLANHOLDERS OF RECORD. The following revisions are hereby made a part of the Contract Documents. *Please be sure to acknowledge all Addenda on the Bid Form.*

Drawings:

- 1) Sheet C201 Overall Site Plan:
 - a. There is an 18" Alder near the location of the base bid proposed well. See attached Revised Sheet C201. This tree may be removed for construction.
- 2) There was an error uploading the drawings to the MRSC Bonfire Procurement Portal; the signed drawings have been included as part of this addendum.

Specifications:

1) Section 0.10000 General Requirements, 1.1A Special Notice.

Delete sentence: Snohomish County Land Disturbing Activity (LDA) permit has not been finalized. Therefore, all land disturbing work must be deferred until the LDA permit is received by the Owner.

Replace with sentence: The Snohomish County Land Disturbing Activity permit (LDA permit) has been issued for this project and is included with the Addendum for this project. The Contractor is responsible for complying with conditions of the LDA permit.

Questions and Answers:

Question 1:	Does the material resulting from the well drilling construction need to be removed from the site?
Answer:	Yes. See Section 017419, 3.1. of the Specifications.
Question 2:	Do Temporary Erosion and Sediment Control Measures need to be installed for this project?
Answer:	Yes. See Section 015713 of the Specifications and Snohomish County LDA permit. Note requirement for a CESCL, Section 015713, 1.6.
Question 3:	Can substitutions be made for the Decorative Rock shown on Sheet 10 of the drawings?
Answer:	Yes, See Section 016000, 1.4 of the Specifications for substitution requirements.
Question 4:	What is the pump test rate requirement?
Answer:	The desired yield of the well is 10 gallons per minute (gpm). Assuming a
	sufficient aquifer is encountered, the Owner's intent is to conduct a step- rate pumping test and constant-rate pumping at rates up to 10 gpm.
Question 5:	If the pump produces a greater rate than the pump test requirement, should the pump test be run for the higher rate?
Answer:	The Owner intends to conduct pumping tests at rates up to 10 gpm.
Question 6:	Is the K-Packer necessary for this well?
Answer:	The well design presented in the Well Profile is preliminary and intended to form
	a basis for bidding. The well design will be modified by the Owner based on encountered subsurface conditions. This will include an assessment by the
	Owner (in consultation with the Engineer, Hydrogeologist, and Contractor) of whether a K-Packer is necessary for the well design.
Question 7:	Should the location of the K-Packer be adjusted to lower in the well?
Answer:	The well design presented in the Well Profile is preliminary and intended to form a basis for bidding. The well design will be modified by the Owner based on encountered subsurface conditions. This will include an assessment by the Owner (in consultation with the Engineer, Hydrogeologist, and Contractor) of whether a K-Packer is necessary for the well design and the associated design depth.
Question 8:	Is there water available onsite for well drilling construction?
Answer:	No. Water must be brought to the site for well drilling and testing.

Question 9:	What is acceptable for disposal of water resulting from the well drilling construction?
Answer:	See Specification Section 332100, 1.15.
Question 10:	Clarification was asked about the label "BPA TRANSMISSION LINE" on the overall Site Plan.
Answer:	See corrected uploaded signed drawings. Refer to the legend on Sheet 3 for line types. Also, there is a call-out on this sheet indicating the location of the 20' BPA setback from the overhead transmission lines.
Question 11:	What are the requirements for site restoration in the Base Bid and Alternate Well locations?
Answer:	See Specification Section 017700, 1.8 and 1.9. Coordinate with Project Representative for mulching and seeding. Provide product submittals for mulch and seed for site restoration per Specification Section 013300 – Submittal Procedures.
Question 12:	In the Alternate well location, can trees be pruned for construction?
Answer:	Yes. See Specification Section 015639, 3.6 for pruning requirements. No trees may be removed without prior approval of the Project Representative, See Specification Section 015639, 1.1.

Attachments:

- Signed Drawings (Sheet 1-10)
- Permit Condition Page (52 pages)
- Water System Improvements Drainage Report 07-16-24 (420 pages)

Manuel Iglesias, Procurement Coordinator Contracts and Grants Program

02/21/25 Date

END OF ADDENDUM NO. 1

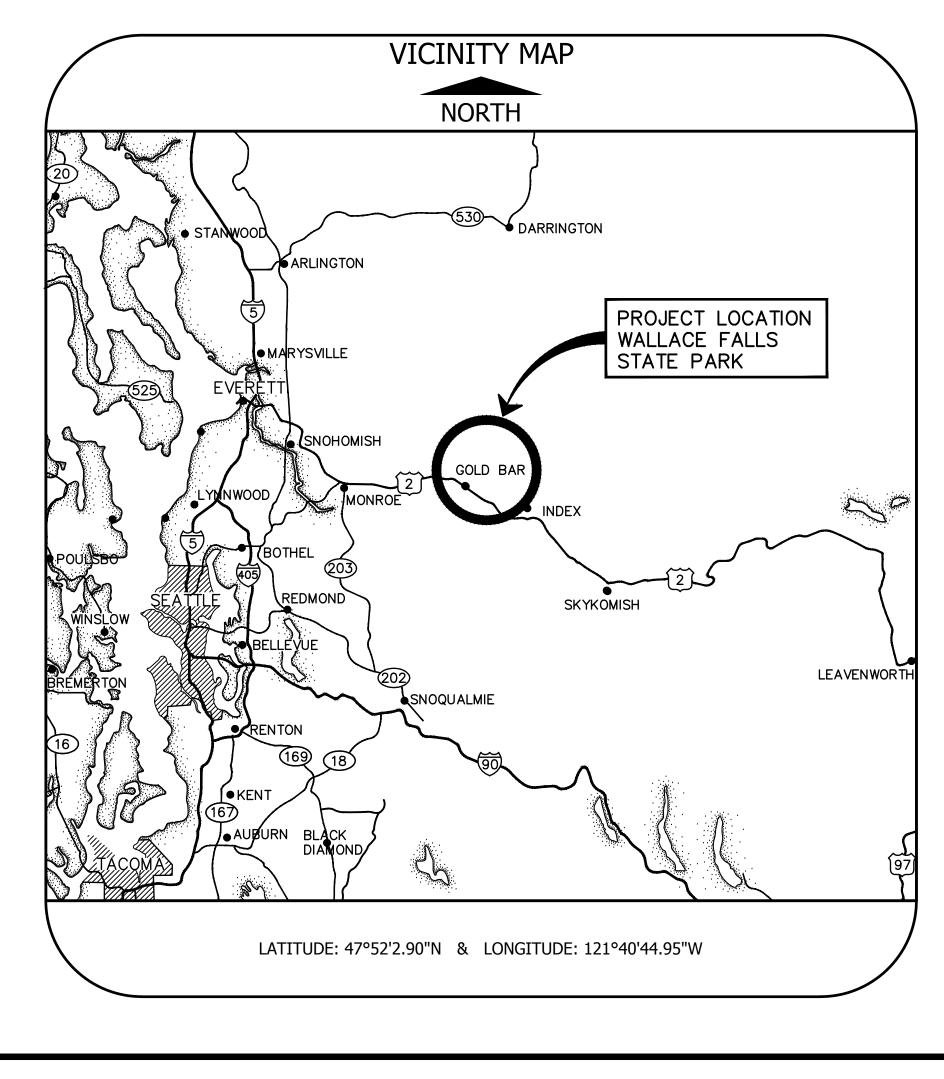
WASHINGTON STATE PARKS & RECREATION COMMISSION

SOPHIA DANENBERG, CHAIR

KEN BOUNDS MICHAEL LATIMER ALI RAAD

DIANA DUPUIS, DIRECTOR

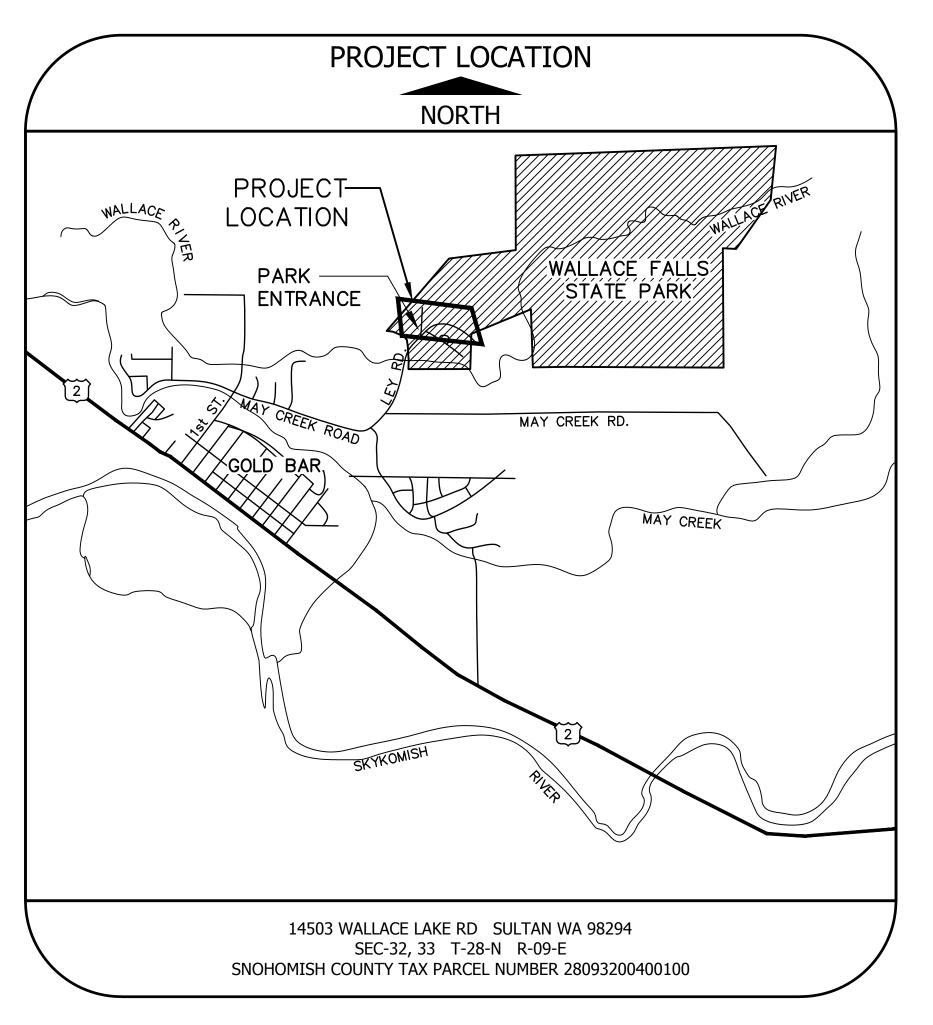
WALLACE FALLS STATE PARK WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING



LAURIE CONNELLY SCOTT MERRIMAN

HOLLY WILLIAMS





SHEET

10

APPROVED FOR CONSTRUCTION

REGION MANAGER

date

CAPITAL PROGRAM MANAGER

date

Area Manager: SHAWN TOBIN

INDEX

DESCRIPTION

G100	COVER SHEET
G101	PROJECT TEAM
G102	GENERAL LEGEND AND ABBREVIATIONS
C100	EXISTING SITE CONDITIONS AND CONTROL POINTS
C101	TESC AND TREE PROTECTION
C102	TESC DETAILS
C200	OVERALL SITE PLAN
C201	SITE PLAN - AREA A
C202	ALTERNATIVE BID ITEM: SITE PLAN - AREA B
M300	WELL PROFILE



heather.pina@consoreng.com



PROJECT TEAM

OWNER: STATE OF WASHINGTON PARKS AND RECREATION COMMISSION 1111 ISRAEL ROAD SOUTHWEST POST OFFICE BOX 42650 OLYMPIA, WASHINGTON 98504-2650 www.parks.wa.gov

OWNER'S REPRESENTATVE: SEE INVITATION TO BID FOR PROJECT REPRESENTATIVE CONTACT



PROJECT ENGINEERING CONSULTANTS

CONSOR ENGINEERS

PRESTON LOVE, PE PROJECT MANAGER TELEPHONE: (509) 321-0340 preston.love@consoreng.com

HEATHER K. PINA, PE CIVIL ENGINEER TELEPHONE: (509) 321-0340

LAND SURVEYOR:



DHA SURVEYORS 16928 WOODINVILLE-REDMOND ROAD SUITE #N-107 WOODINVILLE, WA 98072

HYDROGEOLOGIC ENGINEER: GEOENGINEERS, INC 554 WEST BAKERVIEW ROAD BELLINGHAM, WA 98226 WWW.GEOENGINEERS.COM GEOENGINEERS

DOUG HARTMAN, PLS SURVEYOR TELEPHONE: (425) 483-5355 doug@dhasurveyors.com

BRIDGET AUGUST SENIOR HYDROGEOLOGIST TELEPHONE: (425) 861-6101 BAUGUST@GEOENGINEERS.COM

GEOTECHNICAL ENGINEER: GEOENGINEERS, INC



554 WEST BAKERVIEW ROAD BELLINGHAM, WA 98226 WWW.GEOENGINEERS.COM

AARON HARTVIGSEN SENIOR GEOTECHNICAL ENGINE TELEPHONE: (360) 922-5096 AHARTVIGSEN@GEOENGINEERS.

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	SHEET 2 OF 10	PARKS FILE#			

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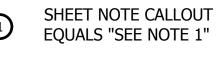
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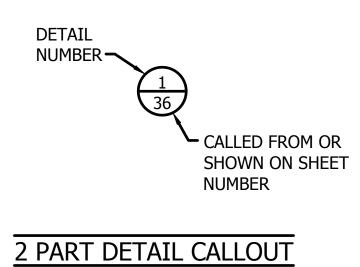
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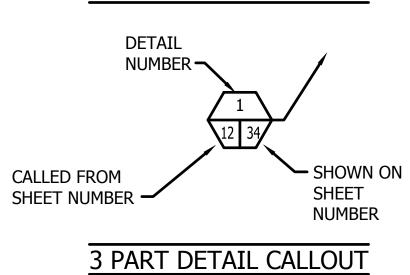
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	SUBSURFACE TEST PIT	<i>TP-3</i>	
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	HEMLOCK OR CEDAR TREE		
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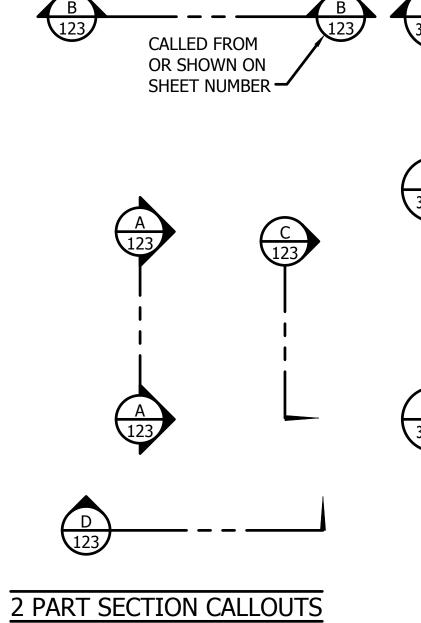












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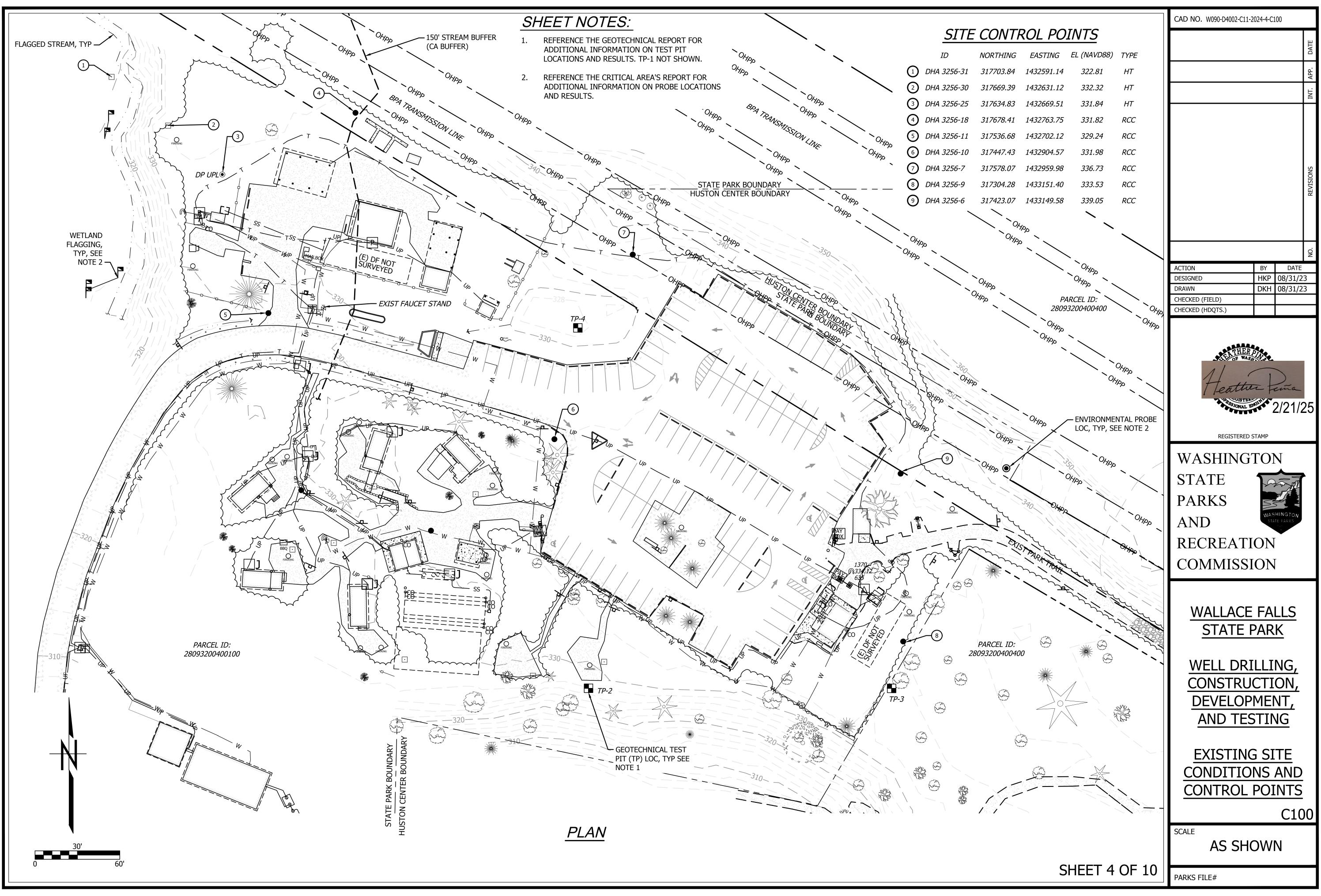
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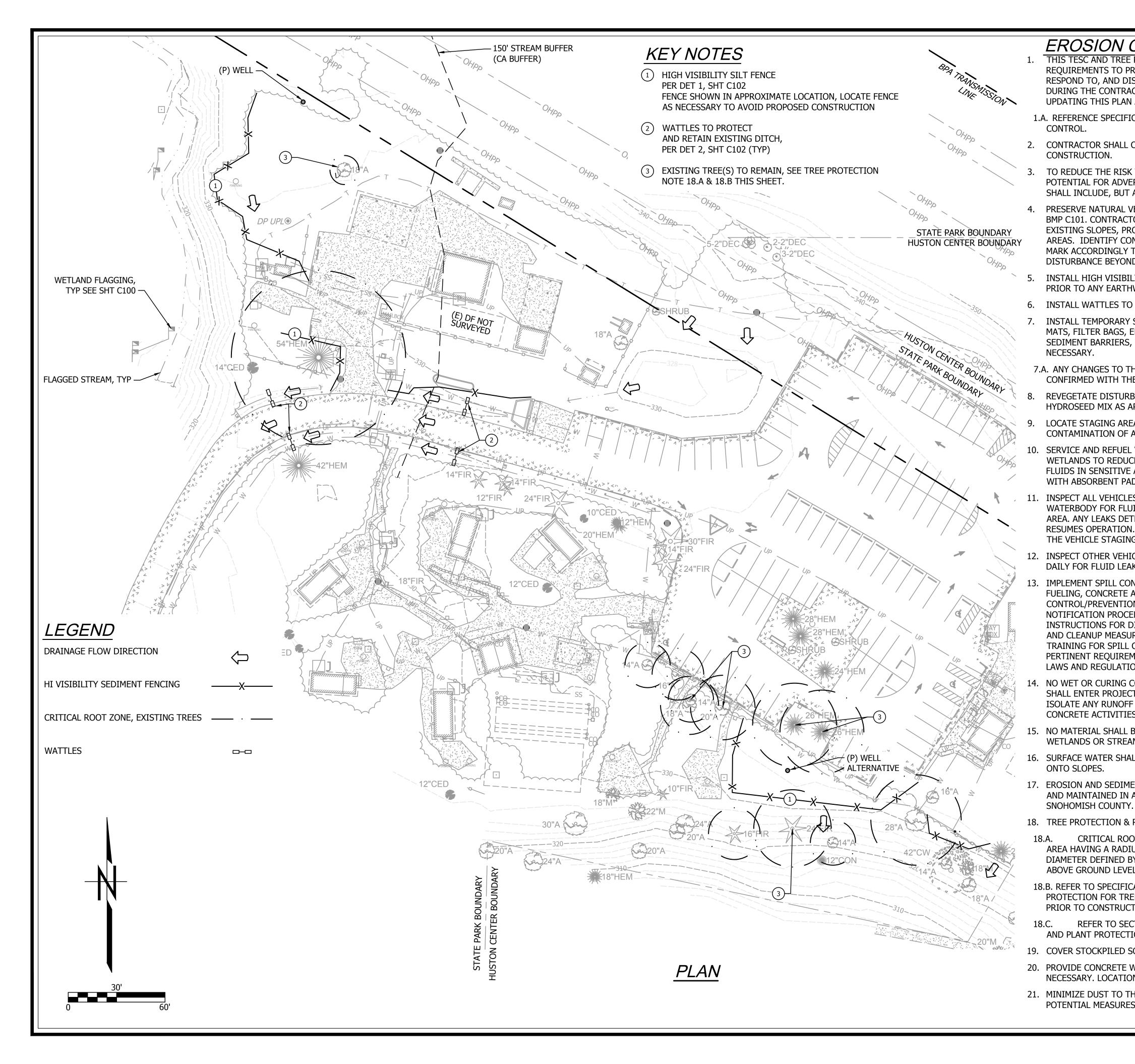
ABBREVIATIONS

APPROXIMATE BELOW GROUND SURFACE BONNEVILLE POWER ADMINISTRATION CRITICAL AREA DETAIL DRAIN FIELD DIAMETER EXISTING LOCATION OUTER DIAMETER MINIMUM OVERHEAD POWER PROPOSED SHEET TEMPORARY EROSION AND SEDIMENT CONTROL TYPICAL

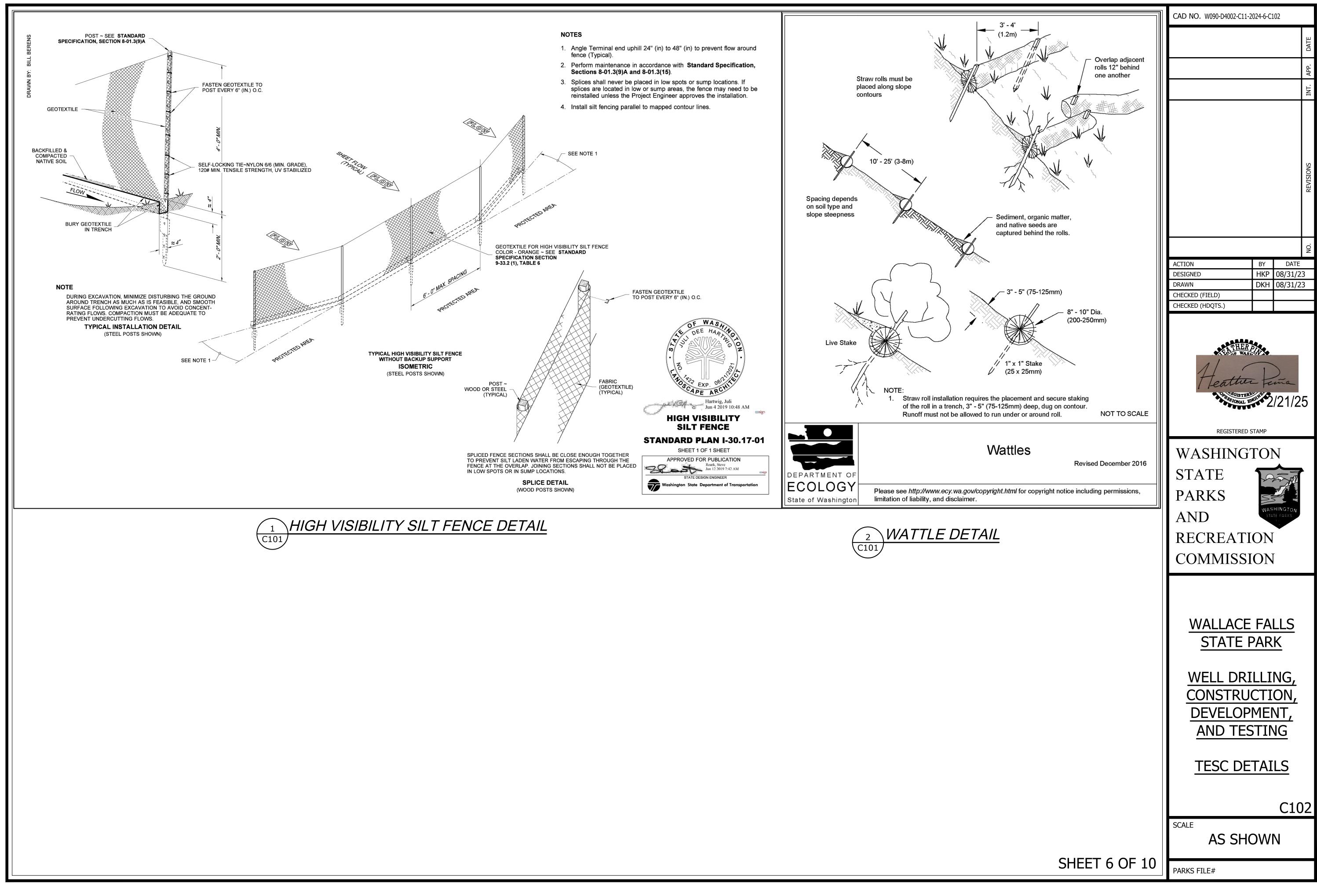
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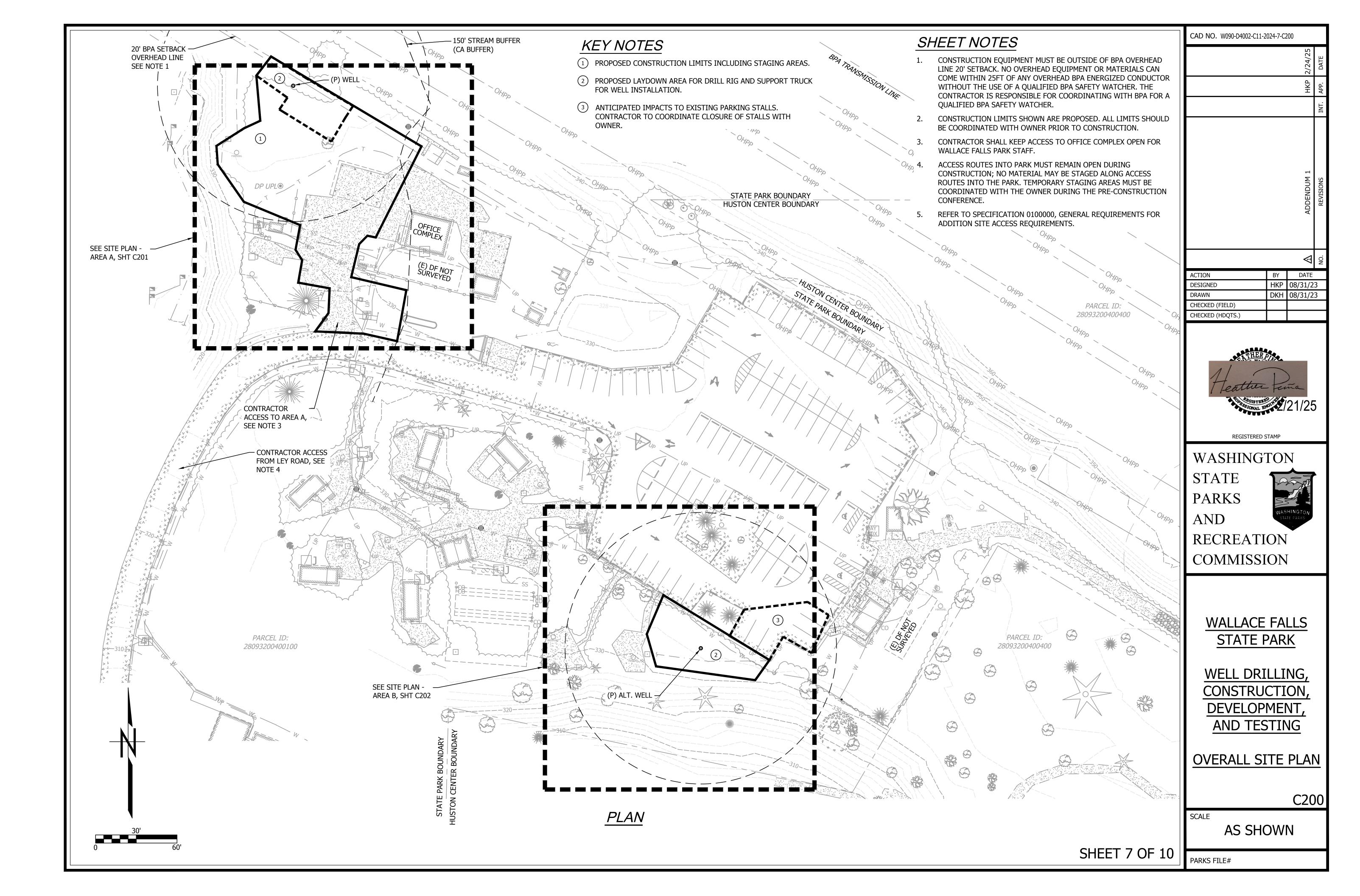
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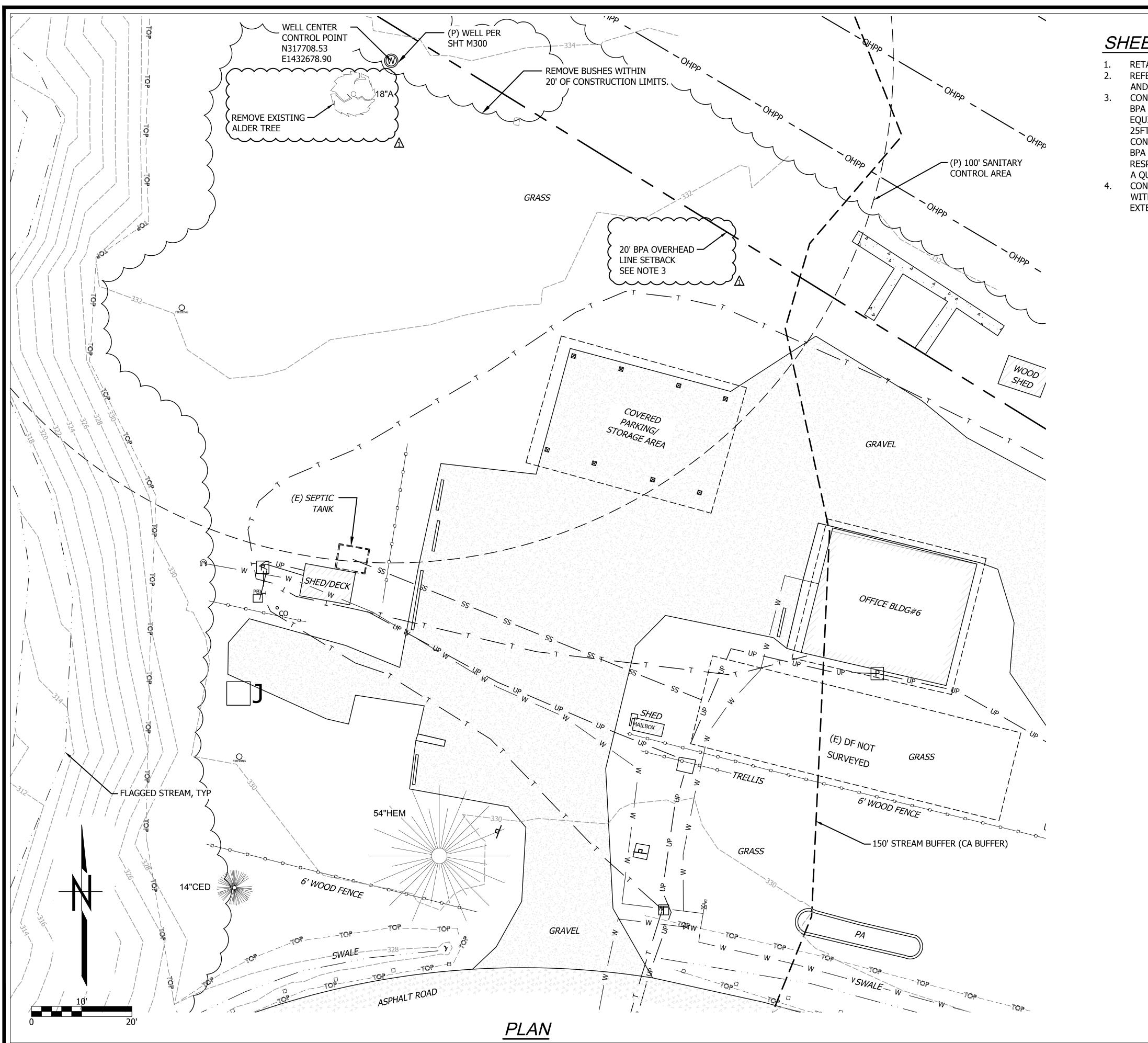




CONTROL NOTES	CAD NO. W090-D4002-C11-2024-5-C101
PROTECTION PLAN IS PROVIDED AS MINIMUM PROJECT PREVENT POLLUTION OF AIR AND WATER, AND CONTROL, ISPOSE OF ERODED SEDIMENT AND TURBID WATER	/24/25 DATE
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ICATION 015713 TEMPORARY EROSION AND SEDIMENT	
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K TO ADJACENT CRITICAL AREAS AND MINIMIZE THE ERSE EFFECT TO THE ENVIRONMENT THE CONTRACTOR TARE NOT LIMITED TO THE FOLLOWING BMPS.	
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D CONTAIN SEDIMENT.	No.
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HIS TESC AND TREE PROTECTION PLAN SHOULD BE HE OWNER.	CHECKED (FIELD) CHECKED (HDQTS.)
BED AREAS UPON PROJECT COMPLETION WITH NATIVE APPROVED BY THE OWNER.	
EAS IN AREAS THAT WILL PREVENT THE POTENTIAL ANY WETLAND OR WATERBODY.	A L
L VEHICLES A MIN. OF 150 FT FROM THE STREAM AND CE POTENTIAL SPILLS OF PETROLEUM AND HYDRAULIC E AREAS. ADDITIONALLY, DRIP PANS WILL BE FITTED ADS AND PLACED UNDER ALL EQUIPMENT BEING FUELED.	Heatter Fina * Strong Englisher 2/21/25
ES DAILY OPERATING WITHIN 100 FT OF ANY STREAM OR JID LEAKS BEFORE LEAVING THE VEHICLE STAGING TECTED WILL BE REPAIRED BEFORE THE VEHICLE N. WHEN NOT IN USE, ALL VEHICLES WILL BE STORED IN NG AREA AS PRACTICABLE.	
ICLES THAT MAY BE STORED IN PLACE, SUCH AS CRANES,	WASHINGTON STATE
ONTROL AND EMERGENCY RESPONSE PLANS FOR ACTIVITY, AND STAGING AREAS. THE SPILL ON PLAN WILL INCLUDE THE FOLLOWING ITEMS: EDURES; SPECIFIC CLEANUP AND DISPOSAL DIFFERENT PRODUCTS; QUICK RESPONSE CONTAINMENT JRES THAT WILL BE AVAILABLE ON SITE; AND EMPLOYEE CONTAINMENT. THESE PLANS WILL SATISFY ALL MENTS SET FORTH BY FEDERAL, STATE, AND LOCAL CONS.	PARKS AND RECREATION COMMISSION
CONCRETE, INCLUDING WASHOUT OF EQUIPMENT, CT WATERS. A CONTAINMENT TARP WILL BE USED TO F FROM ACTIVITIES INVOLVING WET OR CURING ES.	
BE PLACED OR DISCHARGED INTO PROJECT AREA AMS.	WALLACE FALLS STATE PARK
ALL NOT BE DIRECTED TOWARDS THE TOP OF SLOPES OR IENTATION CONTROL MEASURES SHALL BE INSTALLED	WELL DRILLING,
ACCORDANCE WITH THE REQUIREMENTS OF	CONSTRUCTION,
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CATION 015639, TEMPORARY TREE AND PLANT EE PROTECTION REQUIREMENTS TO BE COMPLETED CTION. \ CTION 3.5 OF SPECIFICATION 015639, TEMPORARY TREE	TESC AND TREE PROTECTION
TON FOR TRENCHING WITHIN THE CRZ.	C101
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ON TO BE COORDINATED WITH THE OWNER. THE EXTENT POSSIBLE, REFERENCE SEPA CHECKLIST FOR	AS SHOWN
SHEET 5 OF 10	PARKS FILE#



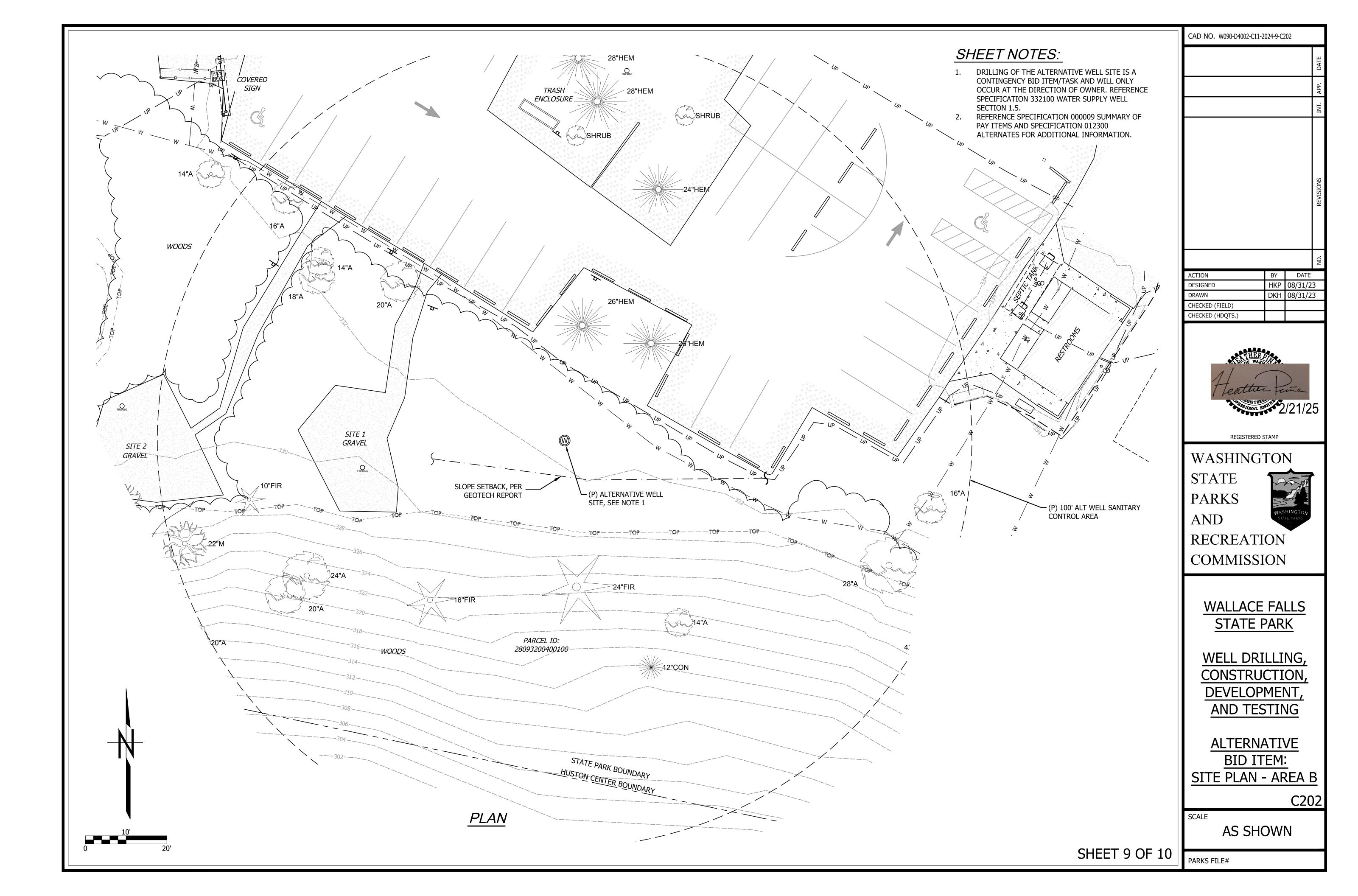




 RETAIN AND PROTECT EXISTING UTILITIES.
 REFER TO TESC PLAN, SHEET C101 FOR EROSION AND CONTROL REQUIREMENTS.
 CONSTRUCTION EQUIPMENT MUST BE OUTSIDE OF BPA OVERHEAD LINE 20' SETBACK. NO OVERHEAD EQUIPMENT OR MATERIALS CAN COME WITHIN 25FT OF ANY OVERHEAD BPA ENERGIZED CONDUCTOR WITHOUT THE USE OF A QUALIFIED BPA SAFETY WATCHER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH BPA FOR A QUALIFIED BPA SAFETY WATCHER.
 CONTRACTOR TO REDUCE IMPACTS TO AREA WITHIN THE CRITICAL AREA BUFFER TO THE EXTENT POSSIBLE.



SHEET 8 OF 10



DECORATIVE ROCK, NOT SHOWN, TO BE PLACED OVER WELL. DEKORRA MODEL 104-RB OR APPROVED EQUAL —

> NEOPRENE PACKER WITH THREE FINS, K-PACKER TRI-SEAL ASSEMBLY AS MANUFACTURED BY APEX INDUSTRIES, OR APPROVED EQUAL

STATIC WATER LEVEL (SWL): 25' +/- BGS _

100' +/- BGS

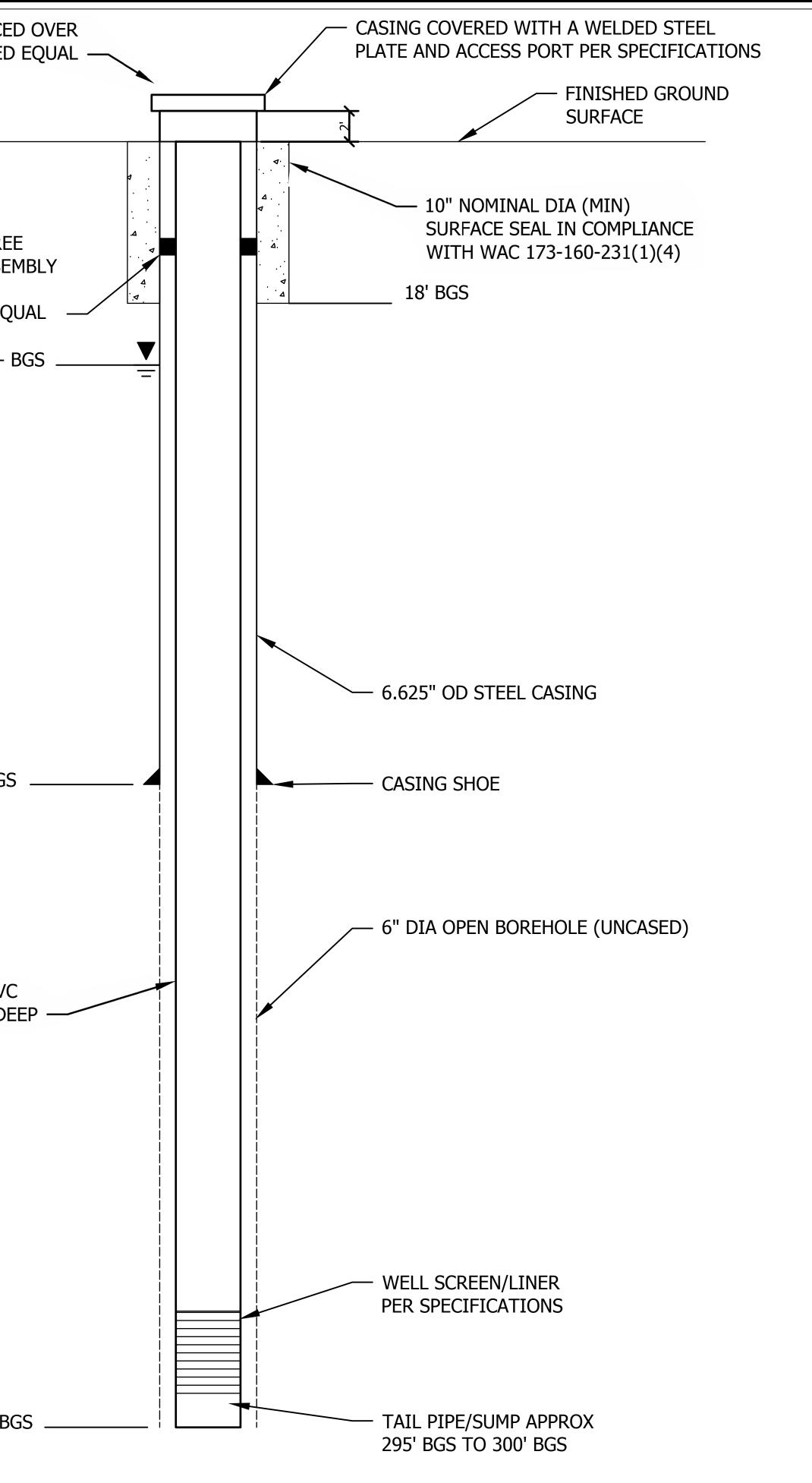
4.5" OUTSIDE DIA, SCH 80 PVC LINER CASING APPROX 185' DEEP —

NOTES:

.. THE LOCATIONS OF THE FEATURES SHOWN ARE APPROXIMATE. ALL VALUES TO BE CONFIRMED AS PART OF DRILLING AND TESTING OPERATIONS. REFER TO SPECIFICATION 33 21 00.

2. WELL CONSTRUCTION DEPTHS AND DETAILS ARE APPROXIMATE AND MAY BE MODIFIED BY THE OWNER BASED ON ENCOUNTERED SUBSURFACE CONDITIONS.

300' +/- BGS



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SHEET 10 OF 10



Permit Condition Page

Project File Number: 24 111490 LDA (Wallace Falls State Park

Water System Replacement)

Address: 14503 Wallace Lake Road, Gold Bar, WA 98251-9384

Applicant: Washington State Parks; Attn: Sheila Ranganath

Special conditions for LDA permits for new construction:

- 1. A preconstruction meeting will be required prior to construction. Contact Darren Hansen 425 249 6958.
- 2. Subject to the property's Critical Areas Site Plan recorded under AFN 202501220060
- 3. Boundary of CAPA to be clearly marked prior to site disturbance and installation of BMP/SWPPP measures.
- 4. Prior to final of LDA, critical area buffer mitigation to be installed per recorded CASP and approved *Critical Area Study & Habitat Management Plan* and *Mitigation Summary Plan Sheets 1-3*, prepared by David Evans & Associates dated April 2024.
- 5. Subject to and in accordance with all conditions of approved Drainage Report, Stormwater Site Plan, SWPPP, and/or Soil Management Plan.
- 6. Prior to final inspection a letter from the design engineer shall be submitted certifying compliance with the approved reports and plans listed above.
- 7. No disturbance, except as shown on the approved site plan, shall occur on this property without further review and approval from Snohomish County PDS.

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES **INSPECTION RECORD**

(To Be Posted on Job Site)

Assessor Tax #: Date Issued:	280932-004-001-00 02/04/2025		24 111490 LDA 02/04/2028	
Site Address:	14503 WALLACE LAKE RD GOLD BAR, WA 98251-938	4		
Permit Type:	Land Disturbing Activities		Commercial / Multi-Unit Clearing and Grading	
Applicant: Contractor:	Washington State Parks an Attn Sheila Ranganath Contractor Unknown		(360) 707-1943	
Contact Person:	Sheila Ranganath - Washington State Parks and Recreat	Phone:	(360) 707-1943	
INSPECTION APPROVAL All required documentation must be available on-site prior to any inspection				
Permission to occupy structures for residential use <u>including Townhouses</u> is authorized upon approval of inspection 199 (Final)				

Occupancy of commercial or multi-family structures require a separate, issued "Certificate of Occupancy"

Required Inspection 100 Preconstruction Meeting	Inspector	Date	Required Inspection 105 Erosion and Sediment Co	Inspector Introl	<u>Date</u>
A review of permit conditions p	prior to site disturban	ce.	Done during footing Inspecti control throughout all projec		Maintain erosion
199 Final			400 Clearing Limits		
Work is complete, special conditions (if required) and all prior inspections are approved.		nd all prior	Limits of clearing marked on	-site.	
455 Soil Amendments					
Verification of on-site stormwa approved plans.	ter management soil	amendments per the			

INSPECTIONS INFORMATION: https://snohomishwa.gov/1261/Inspections. TO SCHEDULE INSPECTIONS: PDS Permit Portal at https://pdspermitportal.snoco.org/pdsportal from the Schedule Inspections button on the home page (no log in required) or from permit dashboard (after log in). Inspections can be scheduled 1-3 business days in advance. Schedule by 11:59 pm for nextday inspections; no same-day inspections. INSPECTION RESULTS: View in your permit dashboard on the PDS Permit Portal at https://pdspermitportal.snoco.org/pdsportal.

3000 Rockefeller Ave. MS 604	Snohomish County Planning and Development Services
Everett, WA 98201	
1-800-562-4367	Land Disturbing Activities
425-388-3311	

Your permit is issued! Read below to find out what is next!

First - Please print your Issued Permit, Inspection Card, and approved documents. Plans must be printed in color and in original size (minimum 18" x 24"). These must be kept at the project site and made available for inspections.

Then - Review your approved documents and plans.

Read the conditions on the Issued permit.

Review your Inspection Card. If there is a "Preconstruction Meeting" listed, then you wi need to schedule the inspection prior to beginning work.

To schedule an inspection

Go to https://pdspermtportal.snoco.org

Select "Schedule Inspections" from the Permit Portal home page or from your permit dashboard go to the "Schedule Inspections" tab.

Search for your permit by the permit number or address.

The cut off time for scheduling inspections 11:59 pm the day prior. You will be able to schedule inspections up to three business days in advance. There are no same day inspectior

Currently we cannot provide a specific time that the inspection will occur during the day.

Note: On residential building permits, you will not be able to schedule a final inspection until all other related permits have been completed such as LDA, D1, D4, FSYS and FZ/FHZ permits.

To contact your inspector on the day of inspection

You can see your assigned inspector's **a**me and phone number from either the "Schedule Inspections" page accessed through the Permit Portal home page or from th "Permit/Inspection Status" tab on your permit detail dashboard.

To see the results of your inspection

You can check the status of yourpermit and see the inspection results from your permit detail dashboard in the Permit Portal. Find your permit on your dashboard and click the "Details" button. Then look at the information under the "Permit/Inspection Status" tab.

3000 Rockefeller Ave. MS 604	Snohomish County Planning and Development Services
Everett, WA 98201	
1-800-562-4367	Land Disturbing Activities
425-388-3311	Eand Distarbing Additio

Assessor Tax#: 280932-004-001-00

Site Address: 14503 WALLACE LAKE RD GOLD BAR

Permit# 24 111490 LDA

Ref#: 24111490 Expires: 02/04/2028 Issued: 02/04/2025 By: SCDSET

Type: Commercial / Multi-Unit Work Proposed: Clearing and Grading

Permit Description: Phase 1 of 3 Phase Project:

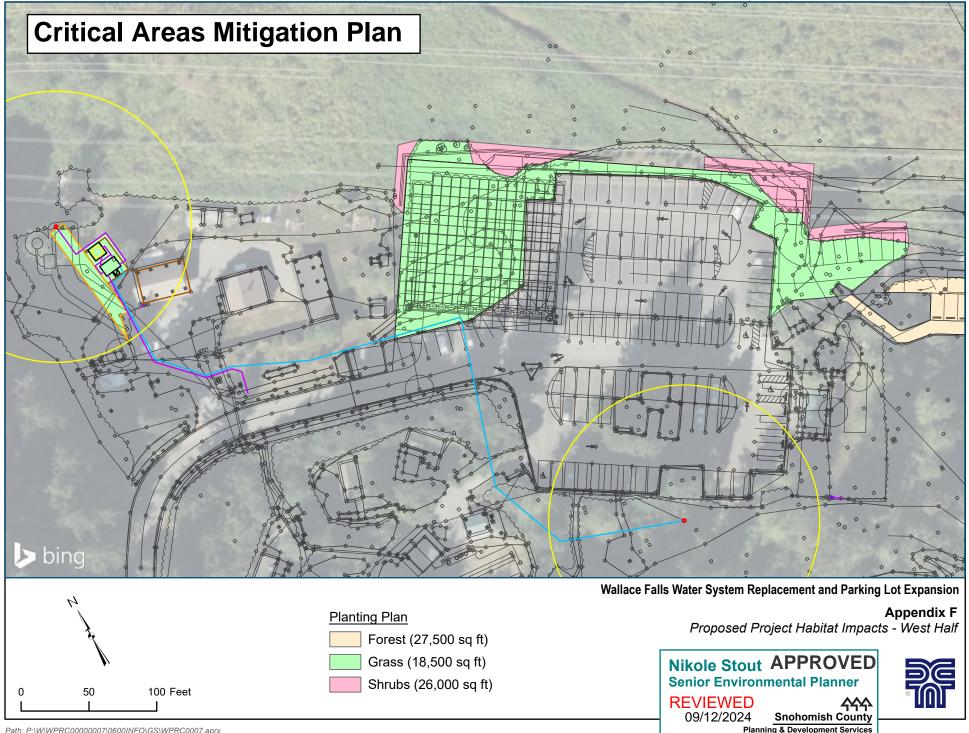
Land Disturbing activity for water system improvements at Wallace Falls State Park. The water system improvements include: a new exempt ground water well source, maintenance access road, water treatment building, storage tank and associated improvements.

Applicant:	Washington State Parks an Attn Sheila Ranganath					
	220 NORTH	WALNUT S	STREET	BURLINGTON, WA 98233	(360) 707-1943	
Sec Twn Rng: 32-28-9 16th: 11 Lot: Subdivis						RefFile#: 24111490
R/W Inspector: Darren Hansen			Project Name:	Wallace Falls State Park	Water System Replaceme	

Special Conditions: A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO CONSTRUCTION. Please contact Darren Hansen 425 249 6958. See Conditions Page

All site work must comply with Title 30 SCC. The permittee must notify the Snohomish County inspector twenty-four (24) hours prior to the beginning of the above described work. Nothing in this permit/approval shall excuse the applicant, owner, agent, successor or assigns from full compliance with any other federal, state or local statutes, ordinances or regulations applicable to this project. In particular, no construction should be undertaken prior to the issuance of the necessary permits from other agencies. The permittee, successors or assigns, agree to protect Snohomish County and save it harmless from all claims, actions or damages of every kind and description which may occur or be suffered by any person or persons, corporation or property, by reason of the construction, installation, maintenance and use of said earth fill, excavation or land disturbing activities. ISSUANCE OF THIS LAND DISTURBING ACTVITIES/GRADING PERMIT DOES NOT IMPLY APPROVAL OF PERMANENT DRAINAGE DESIGN NOR AUTHORIZE CONSTRUCTION ACTIVITIES WITHIN THE PUBLIC RIGHT-OF-WAY. The acceptance of the conditions upon which this permit is granted shall be evidenced by the beginning of said earth fill, excavation or land disturbing activities as set forth herein. The permit shall be posted in an easily visible location on-site at all times during construction. CALL (425) 388-3338 FOR INSPECTION -- 24 HOUR ADVANCE NOTIFICATION REQUIRED. Signature

24 111490 LDA

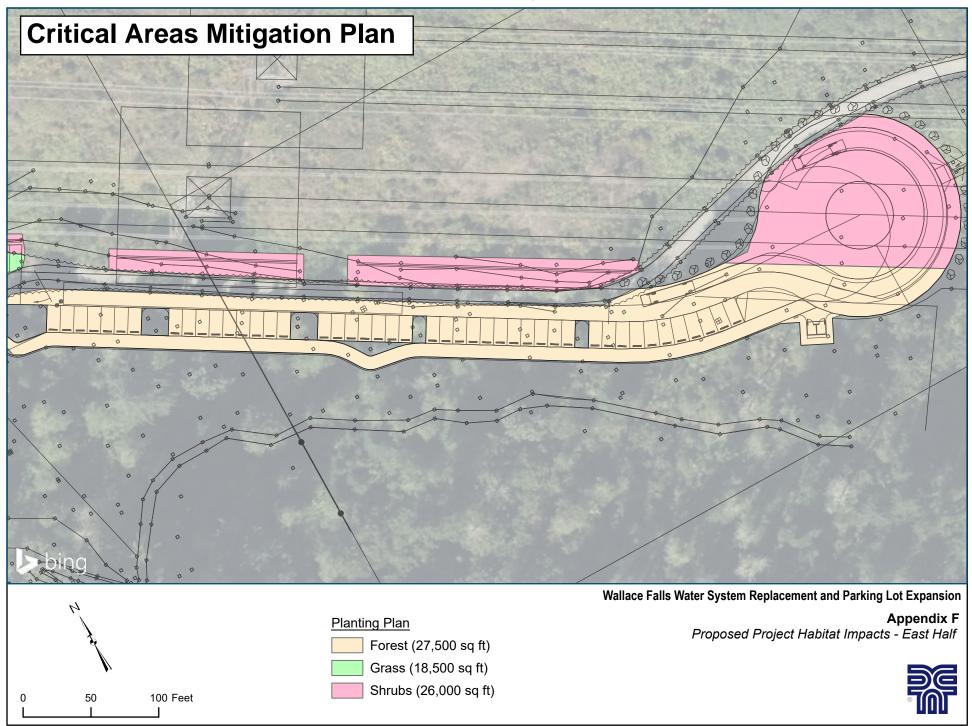


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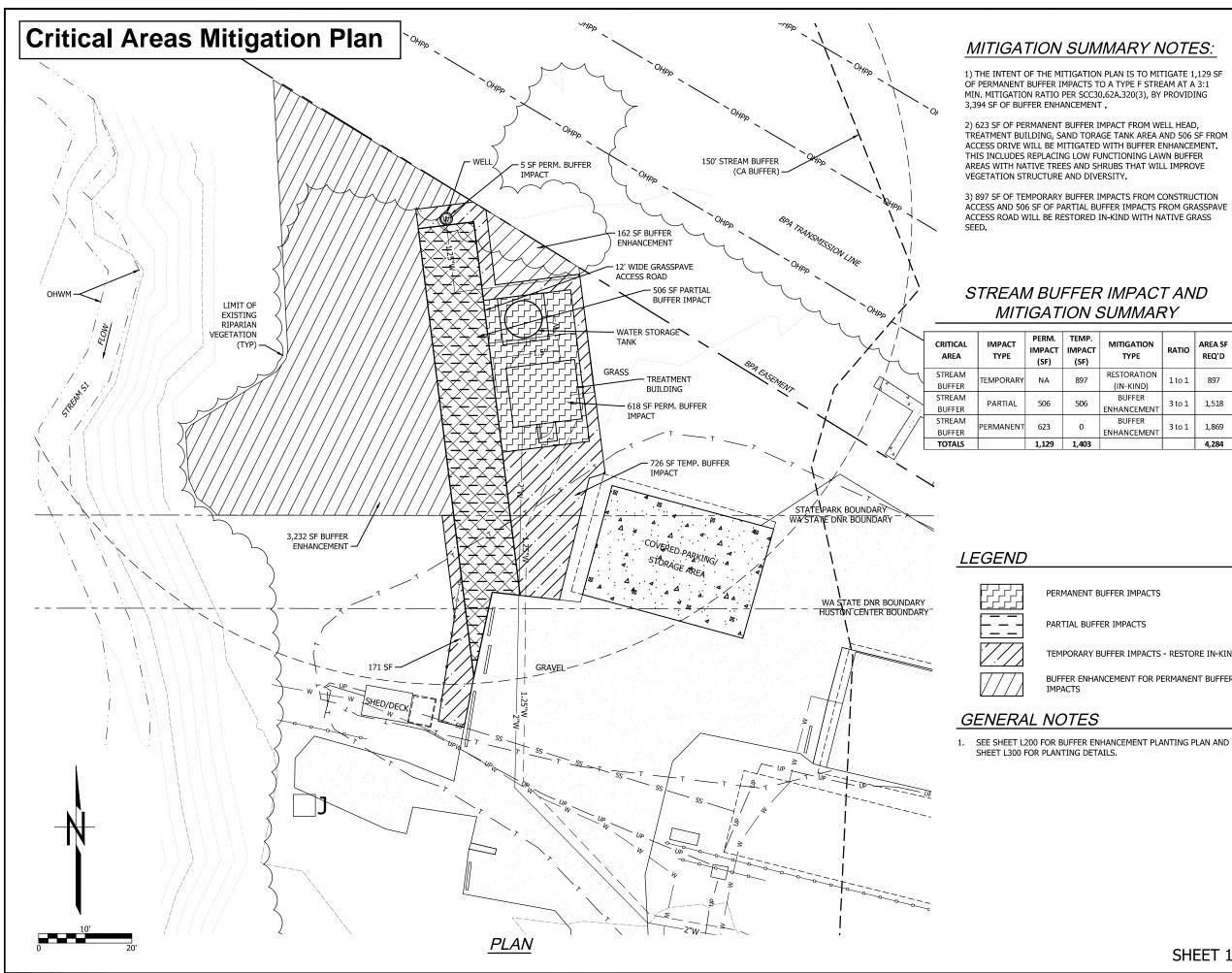
07/18/2024

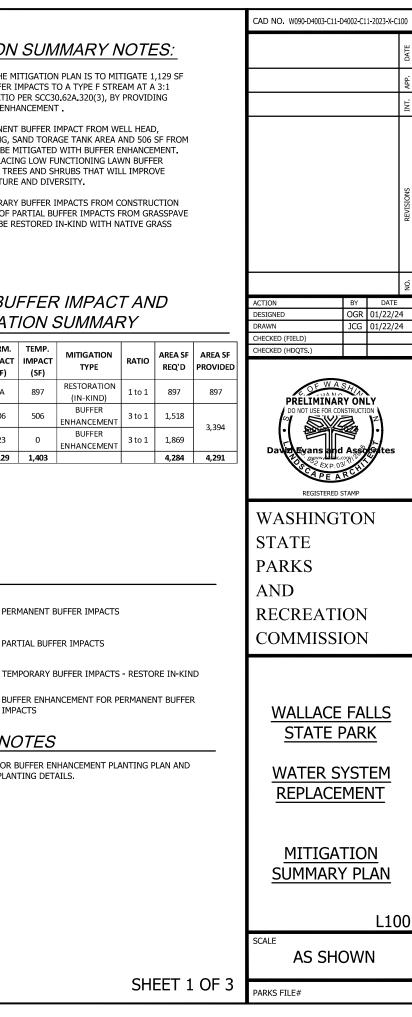
Wallace Falls State Park Water System Replacement

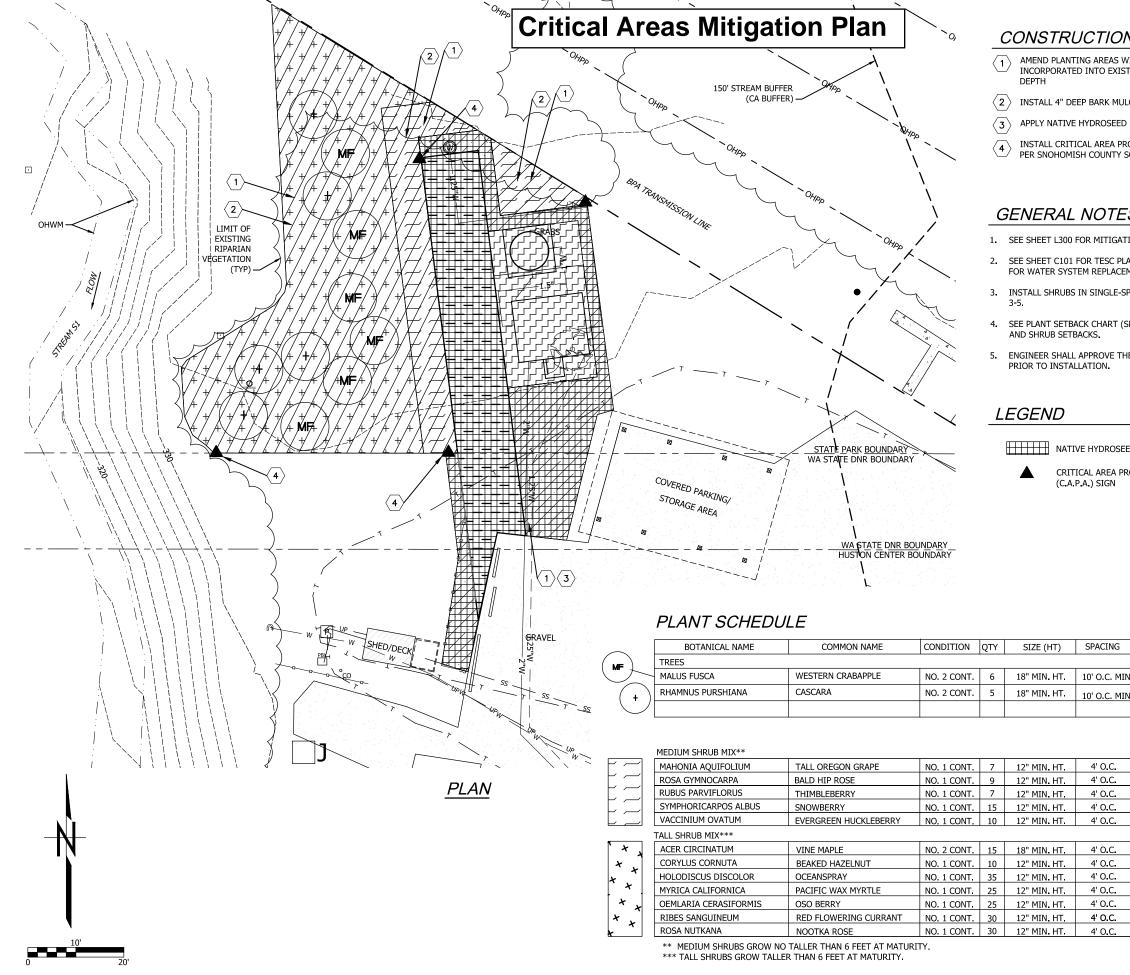
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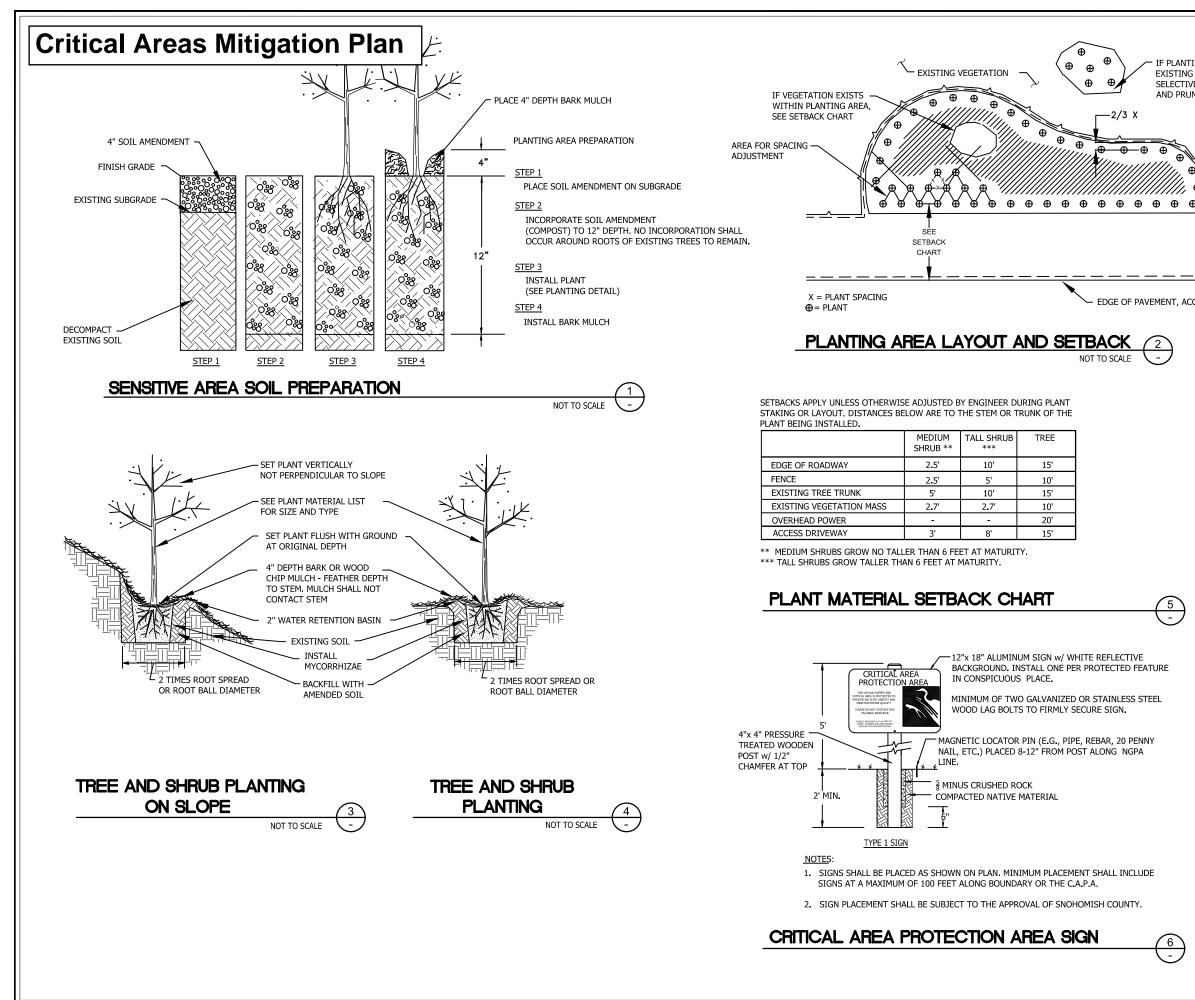
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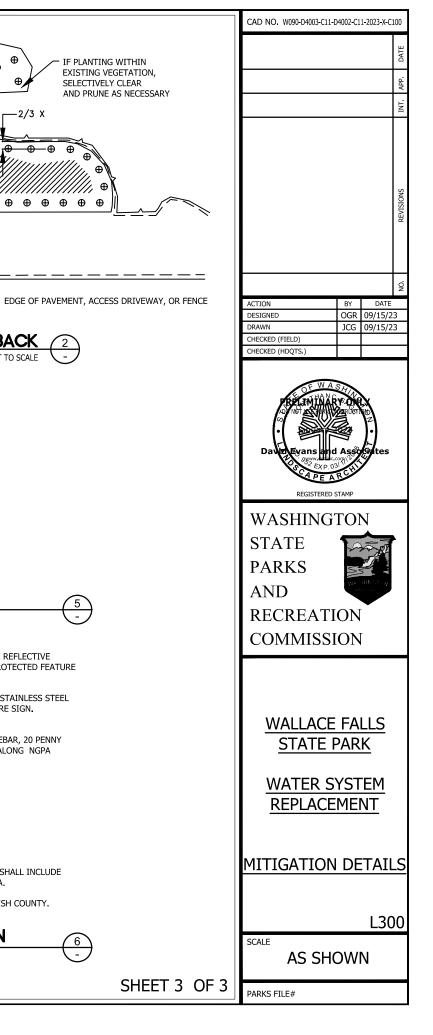






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IE PLANT LAYOUT	
ED MIX. SEE SPECIFICATIONS	PRELIMINARY ONLY Do NOT USE FOR CONSTRUCTION January 2024 David Evans and Associates www.dealnc.com CEXP.03/
	WASHINGTON STATE PARKS AND RECREATION COMMISSION
REMARKS	
N. WELL BRANCHED	
N. WELL BRANCHED, SINGLE LEADER	WALLACE FALLS STATE PARK
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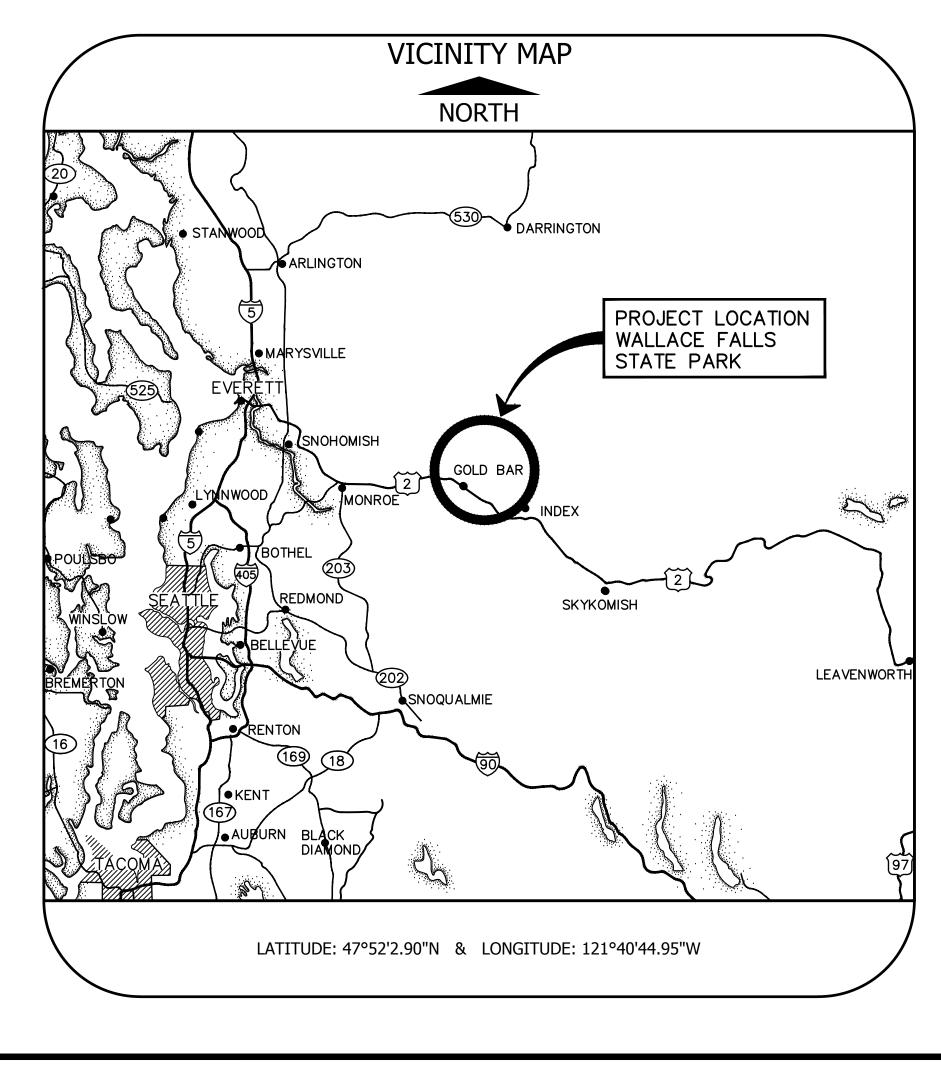
WASHINGTON STATE PARKS & RECREATION COMMISSION

MARK O. BROWN, CHAIR

SOPHIA DANENBERG MICHAEL LATIMER ALI RAAD

DIANA DUPUIS, DIRECTOR

WALLACE FALLS STATE PARK WATER SYSTEM REPLACEMENT

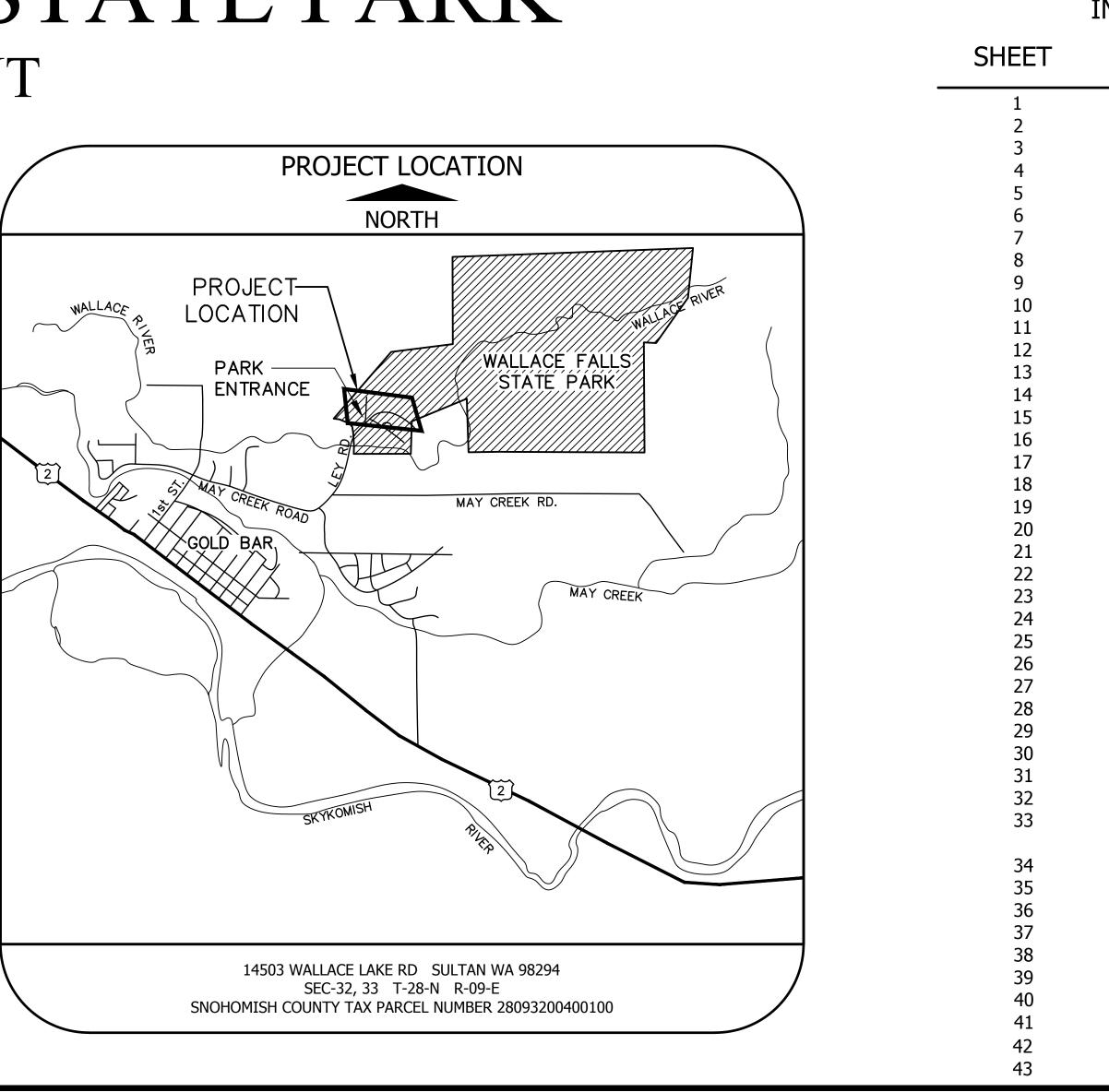


LAURIE CONNELLY

KEN BOUNDS

HOLLY WILLIAMS





APPROVED FOR CONSTRUCTION

ANY FIELD REVISIONS TO APPROVED CONSTRUCTION

PLANS SHALL BE SUBMITTED TO PDS FOR APPROVAL PRIOR TO CONSTRUCTION, AND COMPLY WITH SCC

30.63A.825 & EDDS 10-01

REGION MANAGER

date

CAPITAL PROGRAM MANAGER

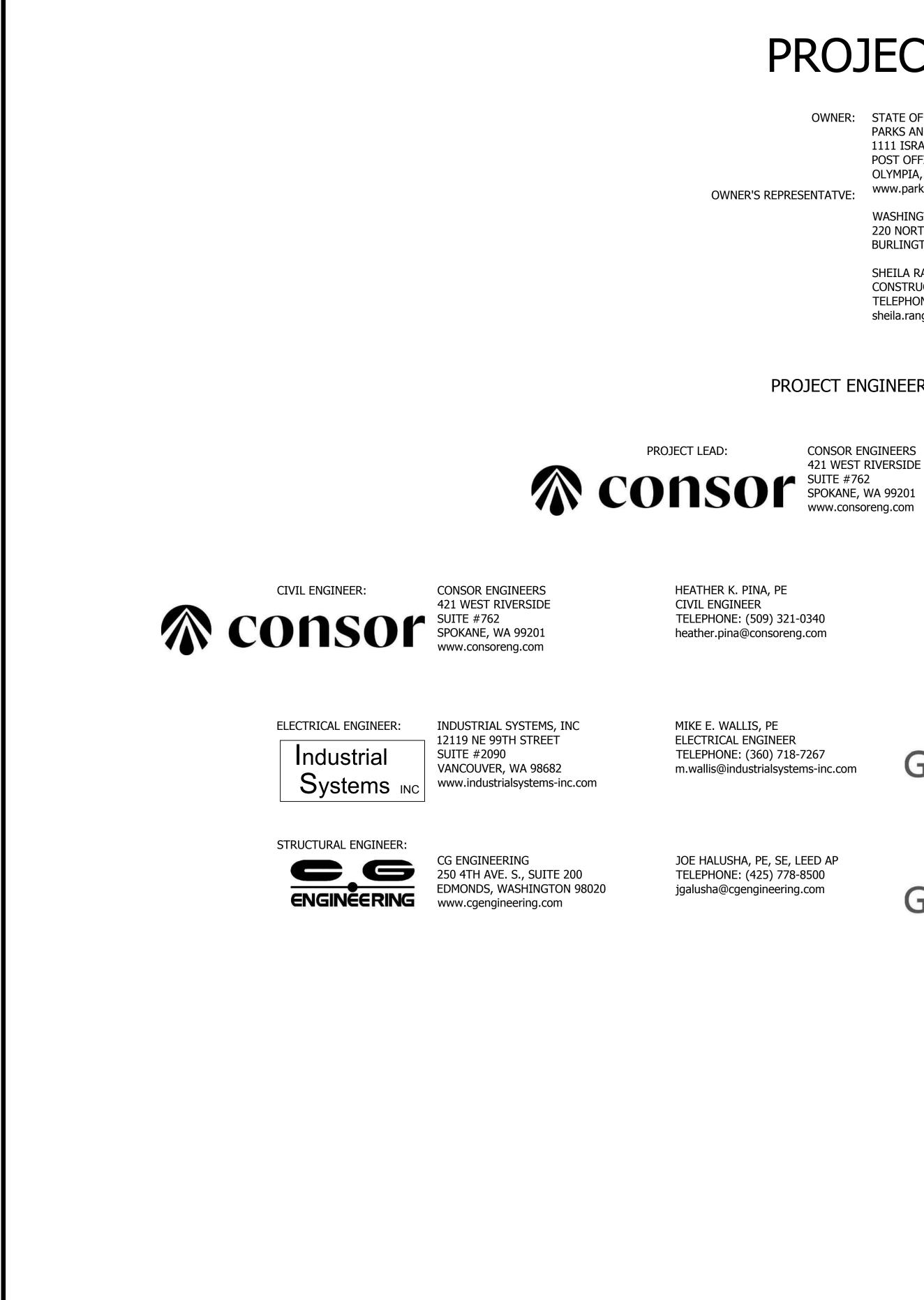
date

Area Manager: SHAWN TOBIN

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L100 L200	BUFFER ENHANCEMENT PLAN
L200 L300	MITIGATION DETAILS
LJUU	



PROJECT TEAM

OWNER'S REPRESENTATVE:

OWNER: STATE OF WASHINGTON PARKS AND RECREATION COMMISSION 1111 ISRAEL ROAD SOUTHWEST POST OFFICE BOX 42650 OLYMPIA, WASHINGTON 98504-2650 www.parks.wa.gov

> WASHINGTON STATE PARKS AND RECREATION COMMISSION 220 NORTH WALNUT STREET BURLINGTON WA 98233

SHEILA RANGANATH, P.E. CONSTRUCTION PROJECT ADMINISTRATOR TELEPHONE: (360) 707-1943 sheila.ranganath@parks.wa.gov

PROJECT ENGINEERING CONSULTANTS

CONSOR ENGINEERS 421 WEST RIVERSIDE

PRESTON LOVE, PE PROJECT MANAGER TELEPHONE: (509) 321-0340 preston.love@consoreng.com

HEATHER K. PINA, PE CIVIL ENGINEER TELEPHONE: (509) 321-0340 heather.pina@consoreng.com LAND SURVEYOR:



DHA SURVEYORS 16928 WOODINVILLE-REDMOND ROAD SUITE #N-107 WOODINVILLE, WA 98072

BRIDGET AUGUST

SURVEYOR

MIKE E. WALLIS, PE ELECTRICAL ENGINEER TELEPHONE: (360) 718-7267 m.wallis@industrialsystems-inc.com





HYDROGEOLOGIC ENGINEER: GEOENGINEERS, INC 554 WEST BAKERVIEW ROAD BELLINGHAM, WA 98226

JOE HALUSHA, PE, SE, LEED AP TELEPHONE: (425) 778-8500 jgalusha@cgengineering.com

GEOTECHNICAL ENGINEER: GEOENGINEERS, INC



554 WEST BAKERVIEW ROAD BELLINGHAM, WA 98226 WWW.GEOENGINEERS.COM

AARON HARTVIGSEN SENIOR GEOTECHNICAL ENGINEER TELEPHONE: (360) 922-5096 AHARTVIGSEN@GEOENGINEERS.COM





DOUG HARTMAN, PLS TELEPHONE: (425) 483-5355 doug@dhasurveyors.com

SENIOR HYDROGEOLOGIST TELEPHONE: (425) 861-6101 BAUGUST@GEOENGINEERS.COM

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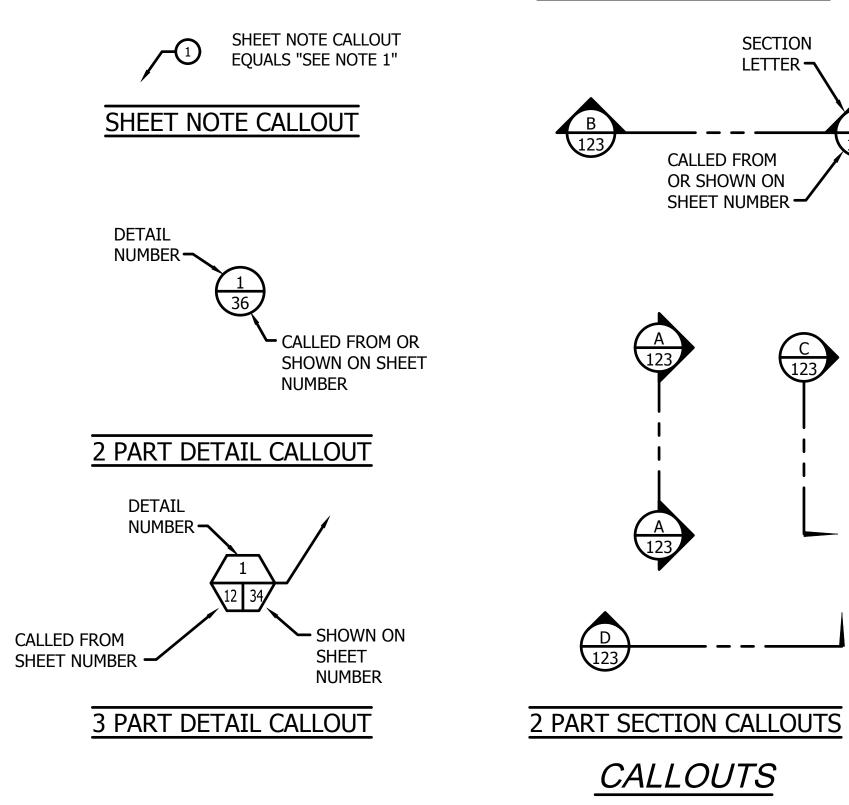
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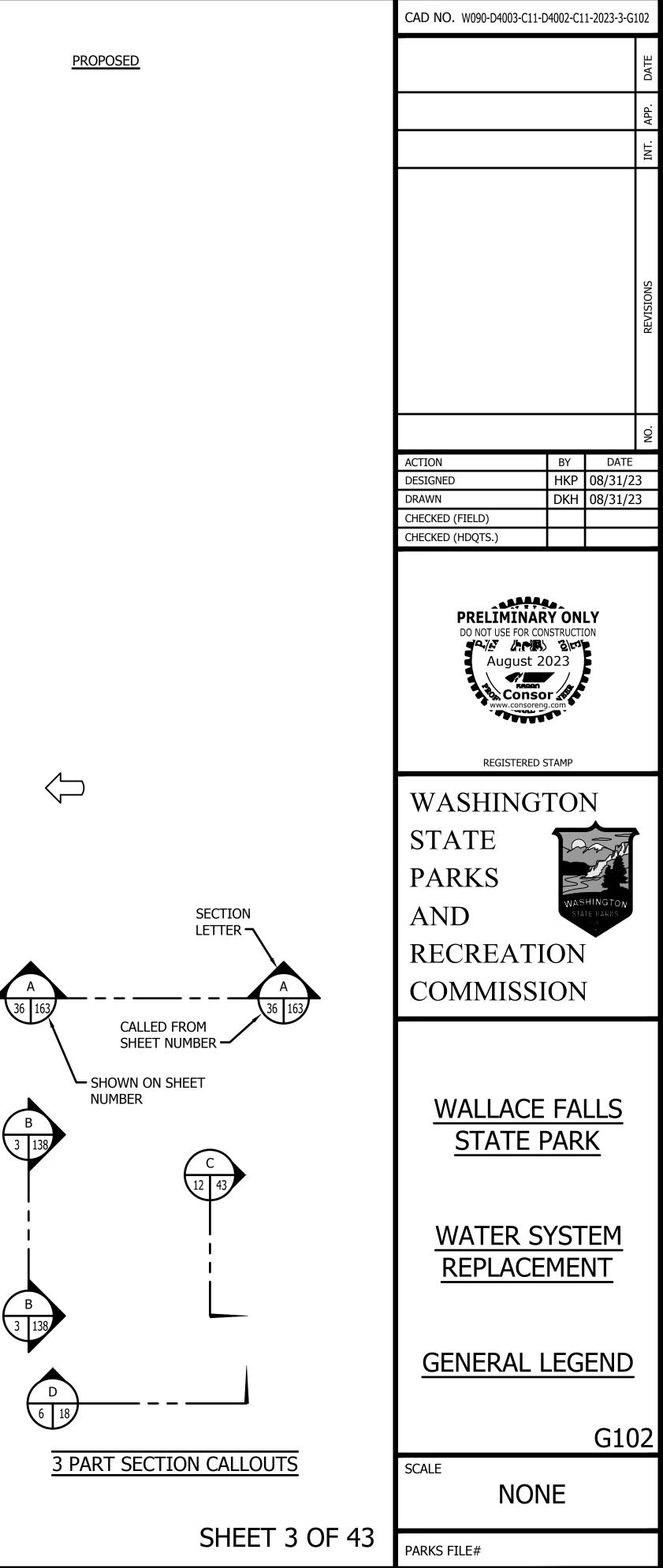




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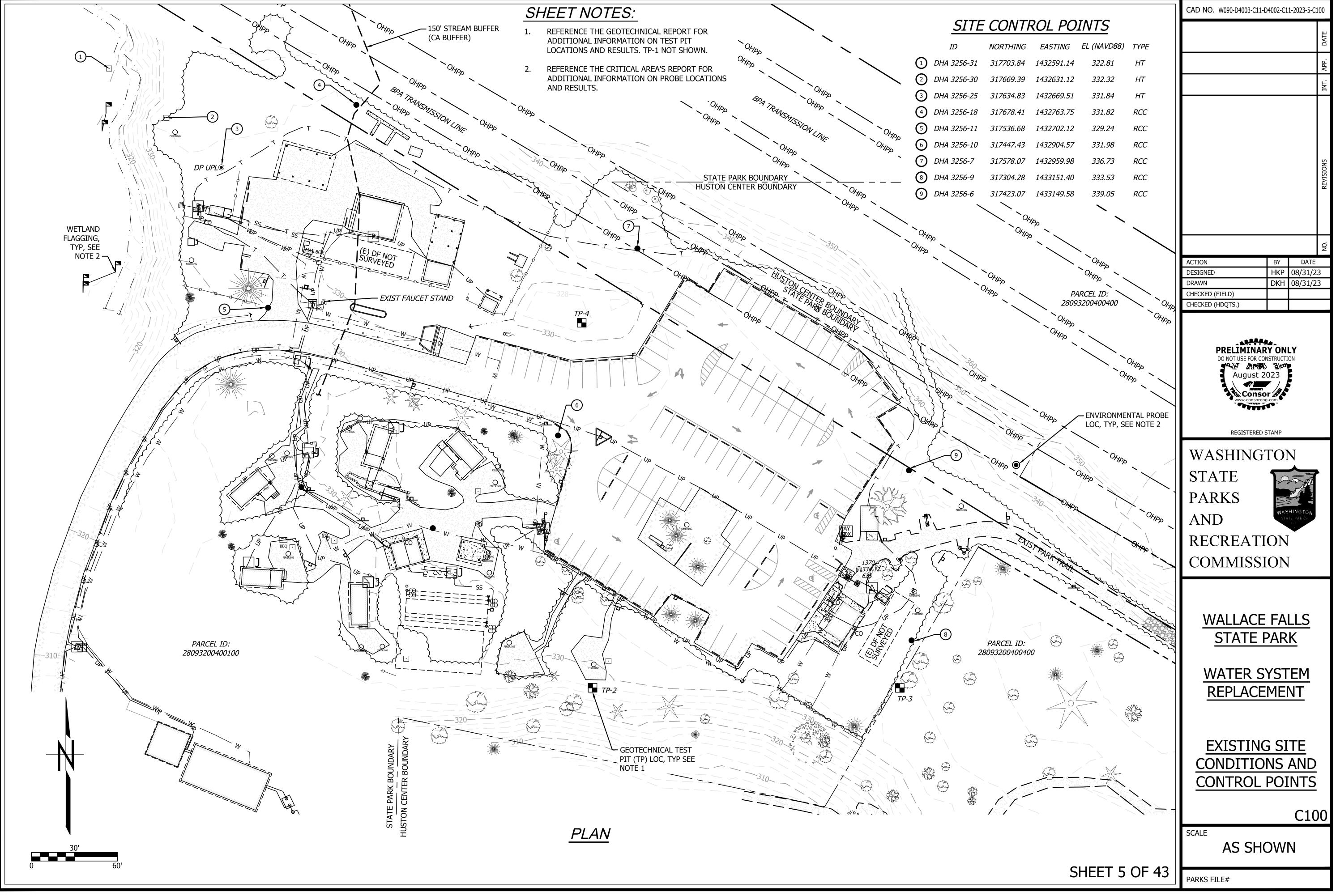
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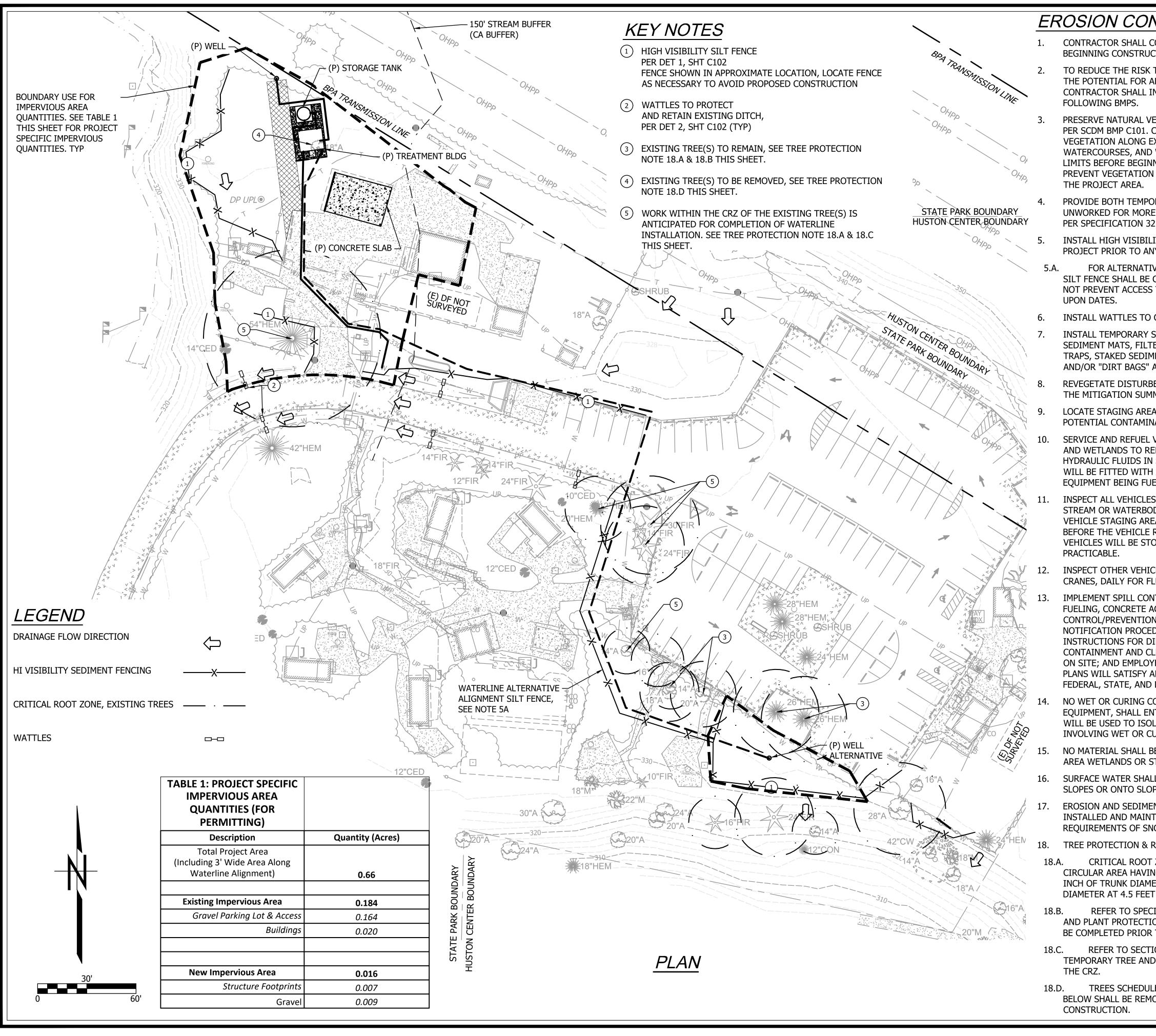
	POUNDS PER SQUARE INCH GAUGE PIPE SLEEVE	ТР	TEST PIT / TOP OF PAVEMEN TURNING POINT	CAD NO. W090-D4003-C11-D	4002-C11-2023-4-G103
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RPBPD	REDUCED PRESSURE BACKFLOW	W/IN	WITHIN		DKH 08/31/23
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	STANDARD STEEL				
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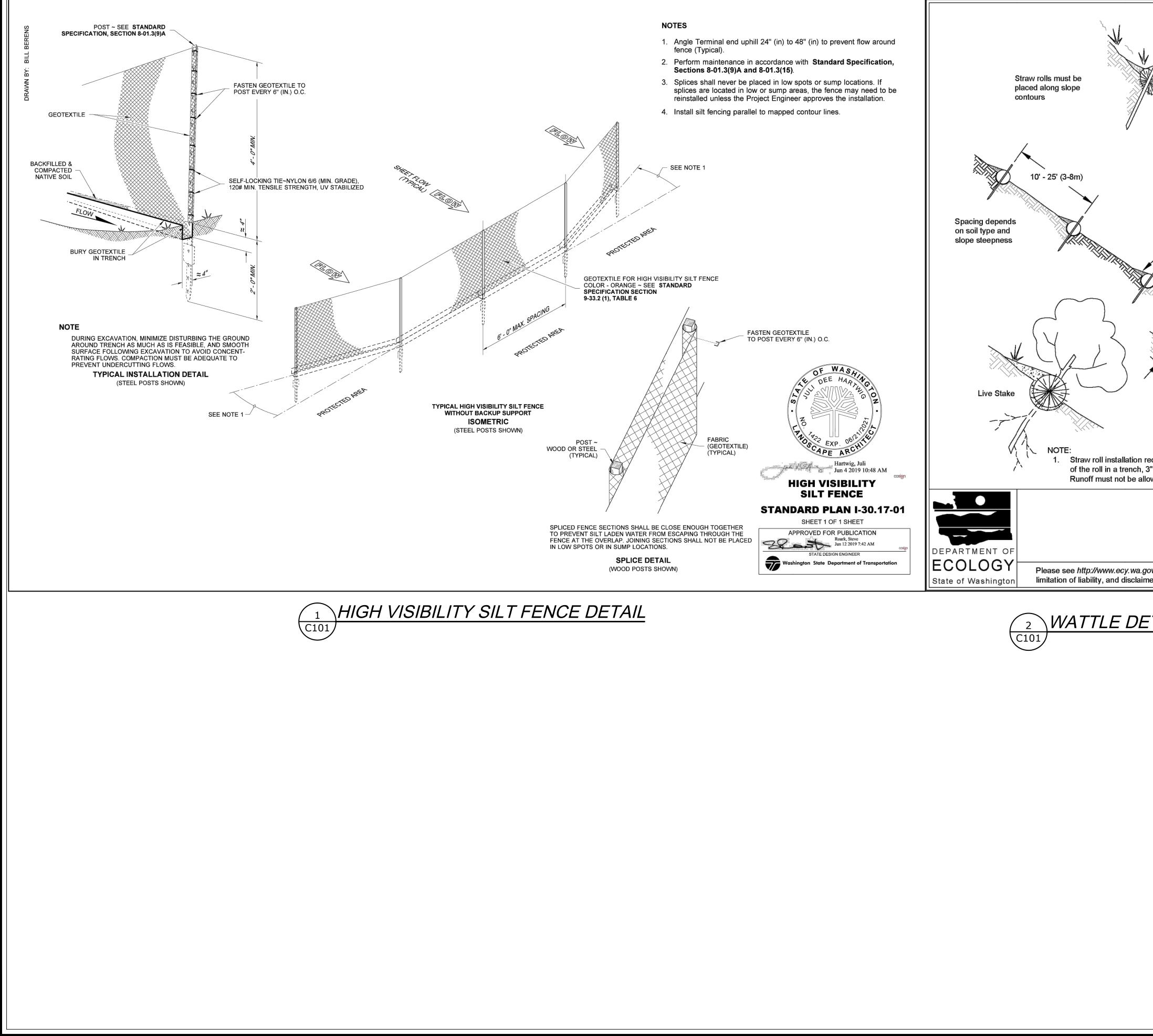
Wallace Falls State Park Water System Replacement

24 111490 LDA



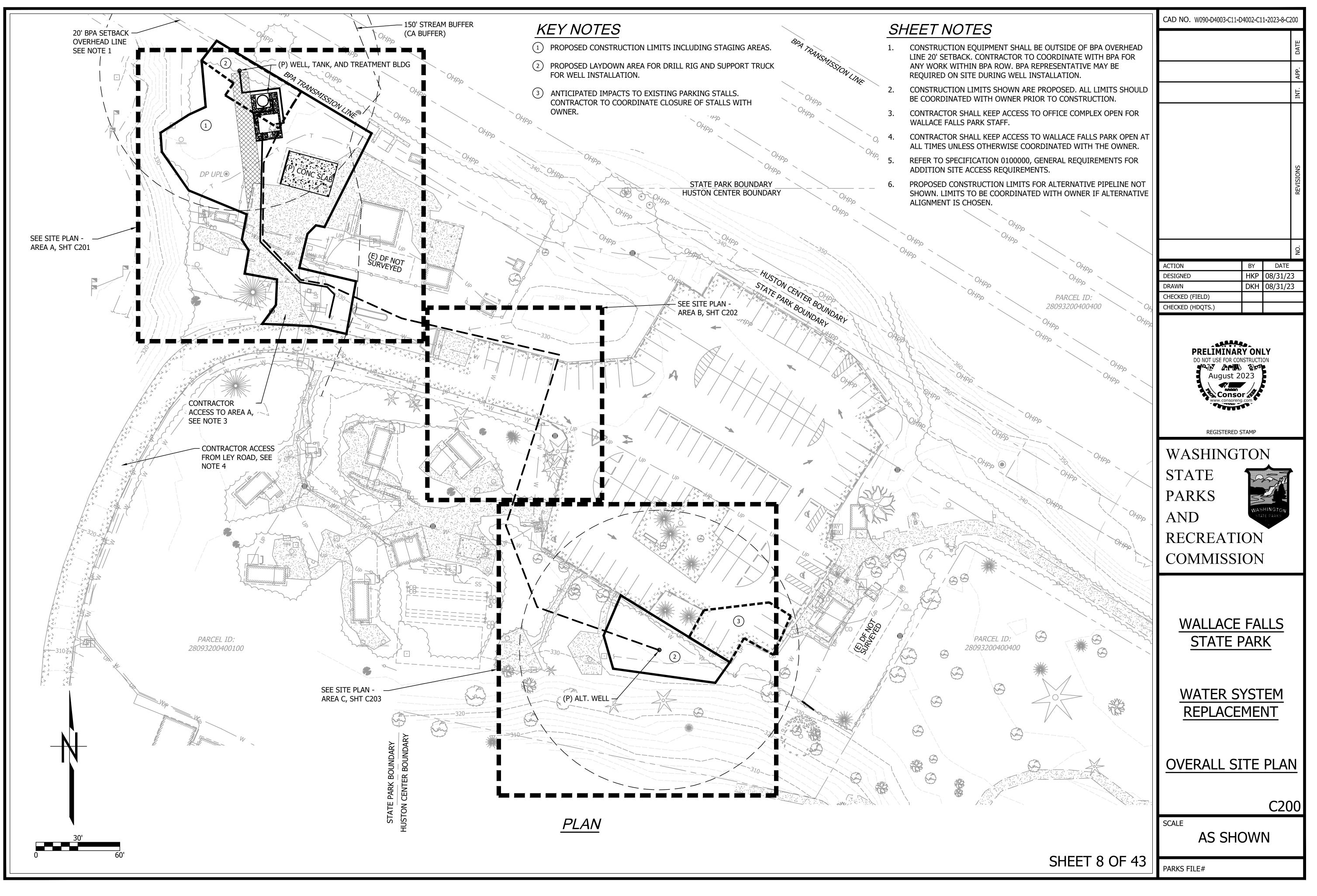
BELOW SHALL BE REMO

NTROL NOTES	CAD NO. W090-D4003-C11-D4002-C11-2023-6-C101
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CONTAIN SEDIMENT.	ACTION BY DATE DESIGNED HKP 08/31/23
SEDIMENT CONTROL DEVICES, SUCH AS ER BAGS, EROSION BLANKETS, SEDIMENT IENT BARRIERS, WATER BLADDER DAMS, AS NECESSARY.	DRAWNDKH08/31/23CHECKED (FIELD)CHECKED (HDQTS.)
ED AREAS UPON PROJECT COMPLETION PER MARY PLAN, SHEET L100.	
AS IN AREAS THAT WILL PREVENT THE IATION OF ANY WETLAND OR WATERBODY.	DO NOT USE FOR CONSTRUCTION
VEHICLES A MIN. OF 150 FT FROM THE STREAM EDUCE POTENTIAL SPILLS OF PETROLEUM AND SENSITIVE AREAS. ADDITIONALLY, DRIP PANS ABSORBENT PADS AND PLACED UNDER ALL ELED.	August 2023
S DAILY OPERATING WITHIN 100 FT OF ANY DY FOR FLUID LEAKS BEFORE LEAVING THE EA. ANY LEAKS DETECTED WILL BE REPAIRED RESUMES OPERATION. WHEN NOT IN USE, ALL ORED IN THE VEHICLE STAGING AREA AS	REGISTERED STAMP WASHINGTON STATE
CLES THAT MAY BE STORED IN PLACE, SUCH AS LUID LEAKS.	PARKS
ITROL AND EMERGENCY RESPONSE PLANS FOR ACTIVITY, AND STAGING AREAS. THE SPILL N PLAN WILL INCLUDE THE FOLLOWING ITEMS: DURES; SPECIFIC CLEANUP AND DISPOSAL IFFERENT PRODUCTS; QUICK RESPONSE LEANUP MEASURES THAT WILL BE AVAILABLE (EE TRAINING FOR SPILL CONTAINMENT. THESE ALL PERTINENT REQUIREMENTS SET FORTH BY LOCAL LAWS AND REGULATIONS.	AND RECREATION COMMISSION
ONCRETE, INCLUDING WASHOUT OF ITER PROJECT WATERS. A CONTAINMENT TARP LATE ANY RUNOFF FROM ACTIVITIES URING CONCRETE ACTIVITIES. BE PLACED OR DISCHARGED INTO PROJECT	<u>WALLACE FALLS</u> <u>STATE PARK</u>
TREAMS.	
PES. NTATION CONTROL MEASURES SHALL BE TAINED IN ACCORDANCE WITH THE OHOMISH COUNTY.	<u>WATER SYSTEM</u> <u>REPLACEMENT</u>
REMOVAL NOTES:	
ZONES SHOWN ARE MINIMUM BASED ON NG A RADIUS OF ONE FOOT FOR EACH ONE ETER DEFINED BY MEASURING THE TRUNK T ABOVE GROUND LEVEL. IFICATION 015639, TEMPORARY TREE	TESC AND TREE PROTECTION
ON FOR TREE PROTECTION REQUIREMENTS TO TO CONSTRUCTION.	C101
ION 3.5 OF SPECIFICATION 015639, O PLANT PROTECTION FOR TRENCHING WITHIN	SCALE
LED TO BE REMOVED AS SHOWN IN TABLE 1 OVED BEFORE SHEET 6 OF 43	AS SHOWN
	PARKS FILE#

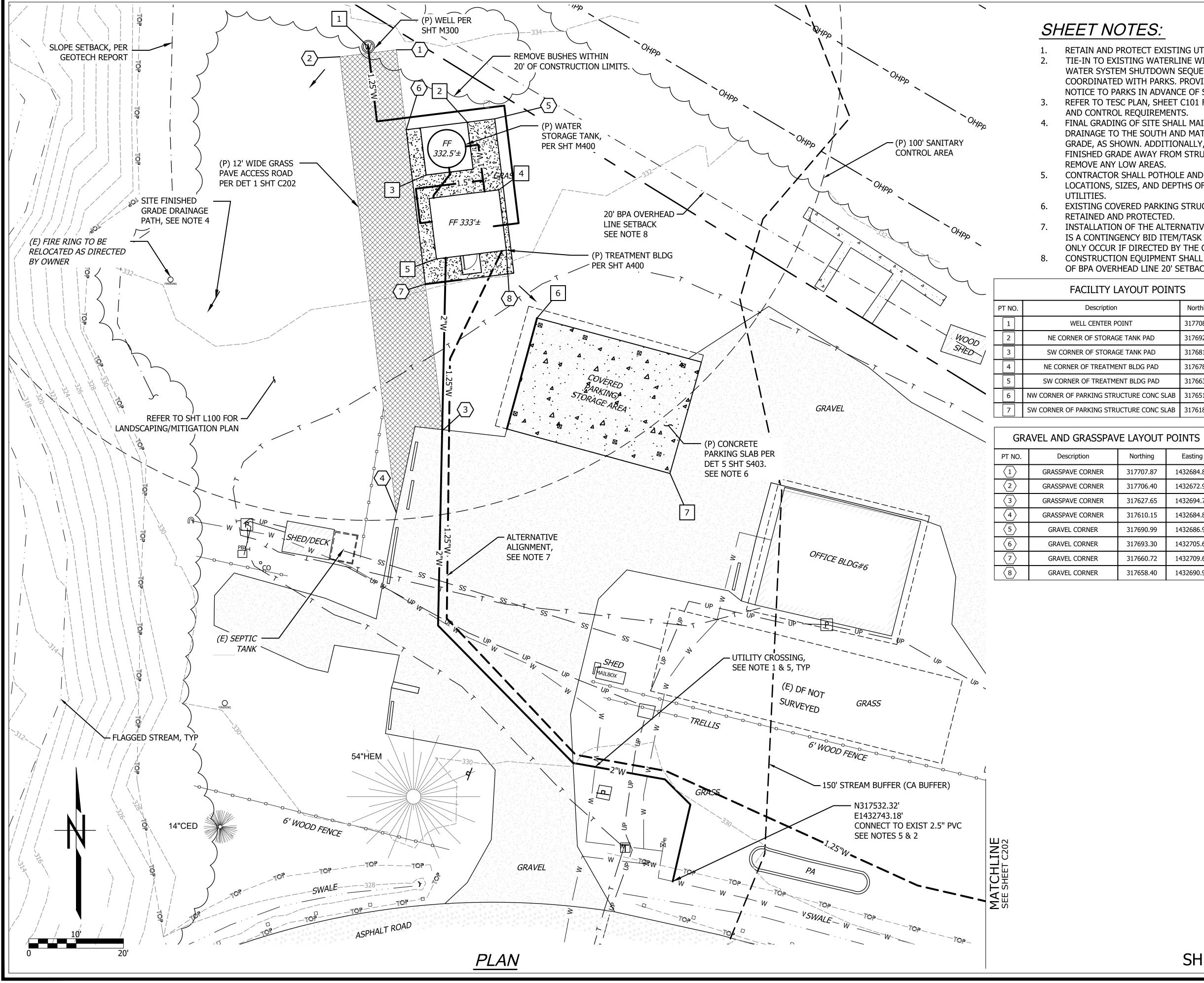


24 111490 LDA

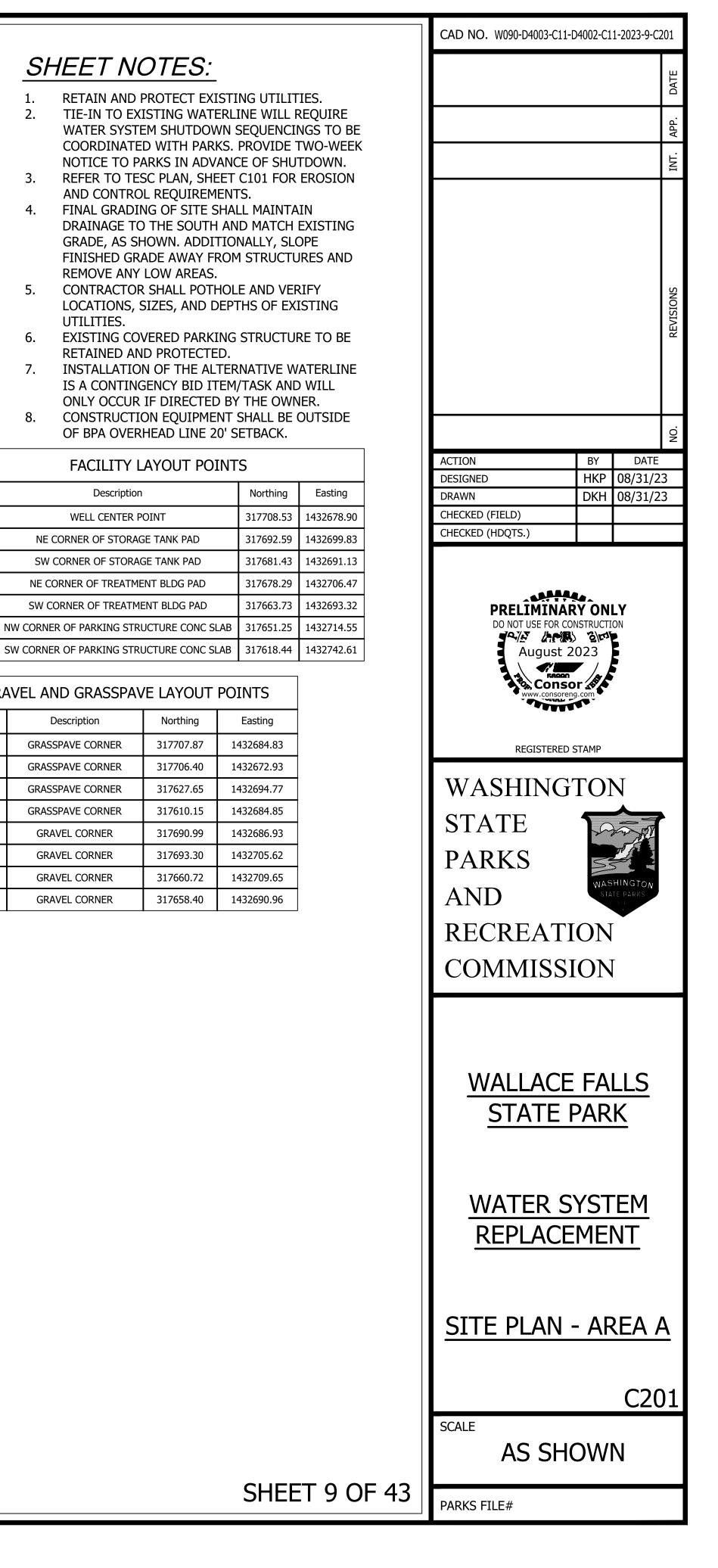
3' - 4'	CAD NO. W090-D4003-C11-D4002-C11-2023-7-C102
(1.2m)	DATE
Overlap adjacent rolls 12" behind one another	APP.
	INT.
W K W	REVISIONS
Sediment, organic matter,	
and native seeds are captured behind the rolls.	
	ACTION BY DATE
	ACTIONBYDATEDESIGNEDHKP08/31/23DRAWNDKH08/31/23
) - 3" - 5" (75-125mm)	CHECKED (FIELD) CHECKED (HDQTS.)
8" - 10" Dia. (200-250mm)	CHECKED (HDQ13.)
	PRELIMINARY ONLY
// 1" x 1" Stake // (25 x 25mm)	
	August 2023
installation requires the placement and secure staking in a trench, 3" - 5" (75-125mm) deep, dug on contour. Ist not be allowed to run under or around roll. NOT TO SCALE	www.consoreng.com
	REGISTERED STAMP
Wattles	WASHINGTON
Revised December 2016	STATE STATE
ww.ecy.wa.gov/copyright.html for copyright notice including permissions, and disclaimer.	PARKS
	AND STATE PARKS
<u>E DETAIL</u>	RECREATION
	COMMISSION
	WALLACE FALLS
	STATE PARK
	WATER SYSTEM REPLACEMENT
	TESC DETAILS
	C102
	SCALE AS SHOWN
SHEET 7 OF 43	PARKS FILE#



Wallace Falls State Park Water System Replacement



Wallace Falls State Park Water System Replacement



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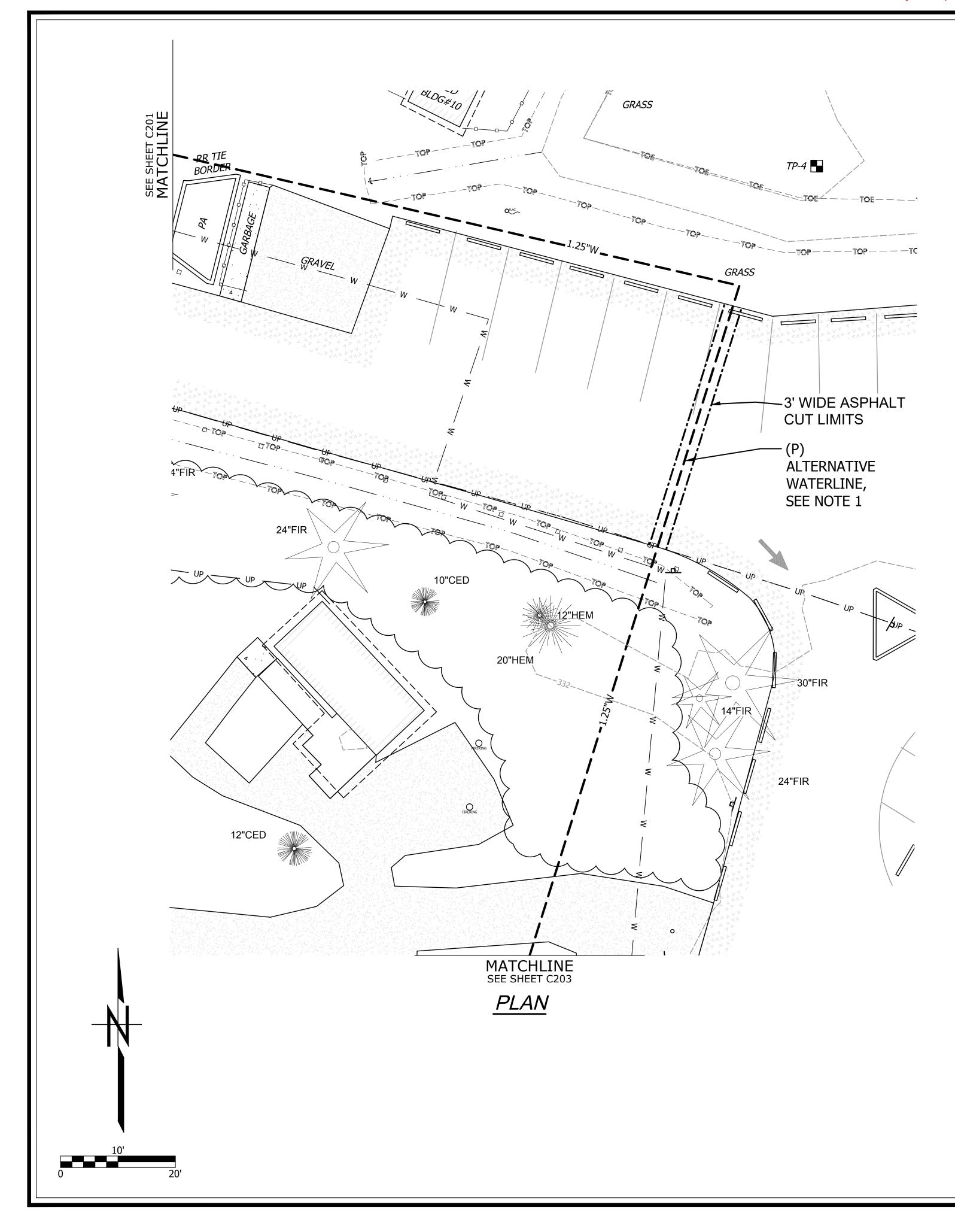
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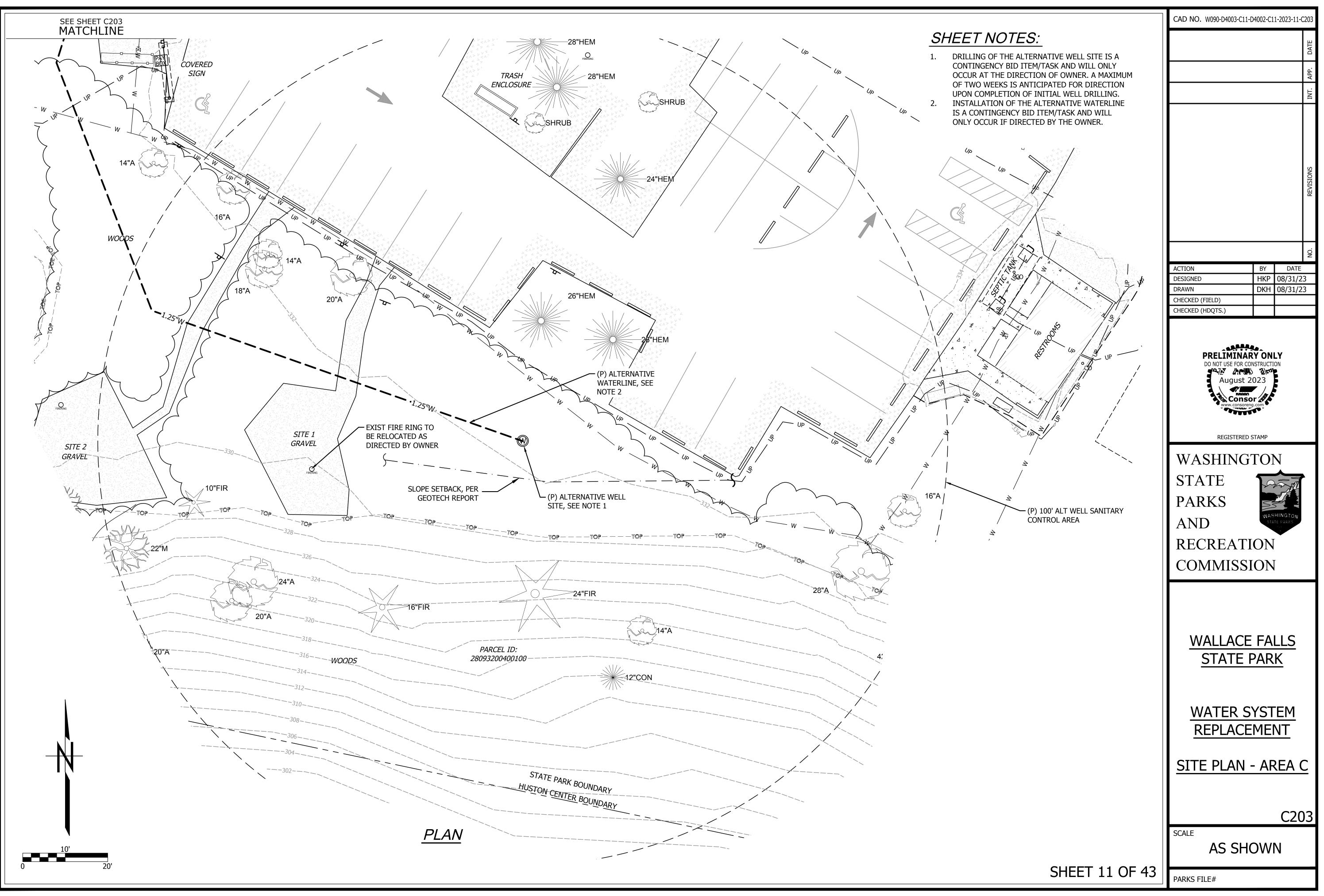
SHEET NOTES:

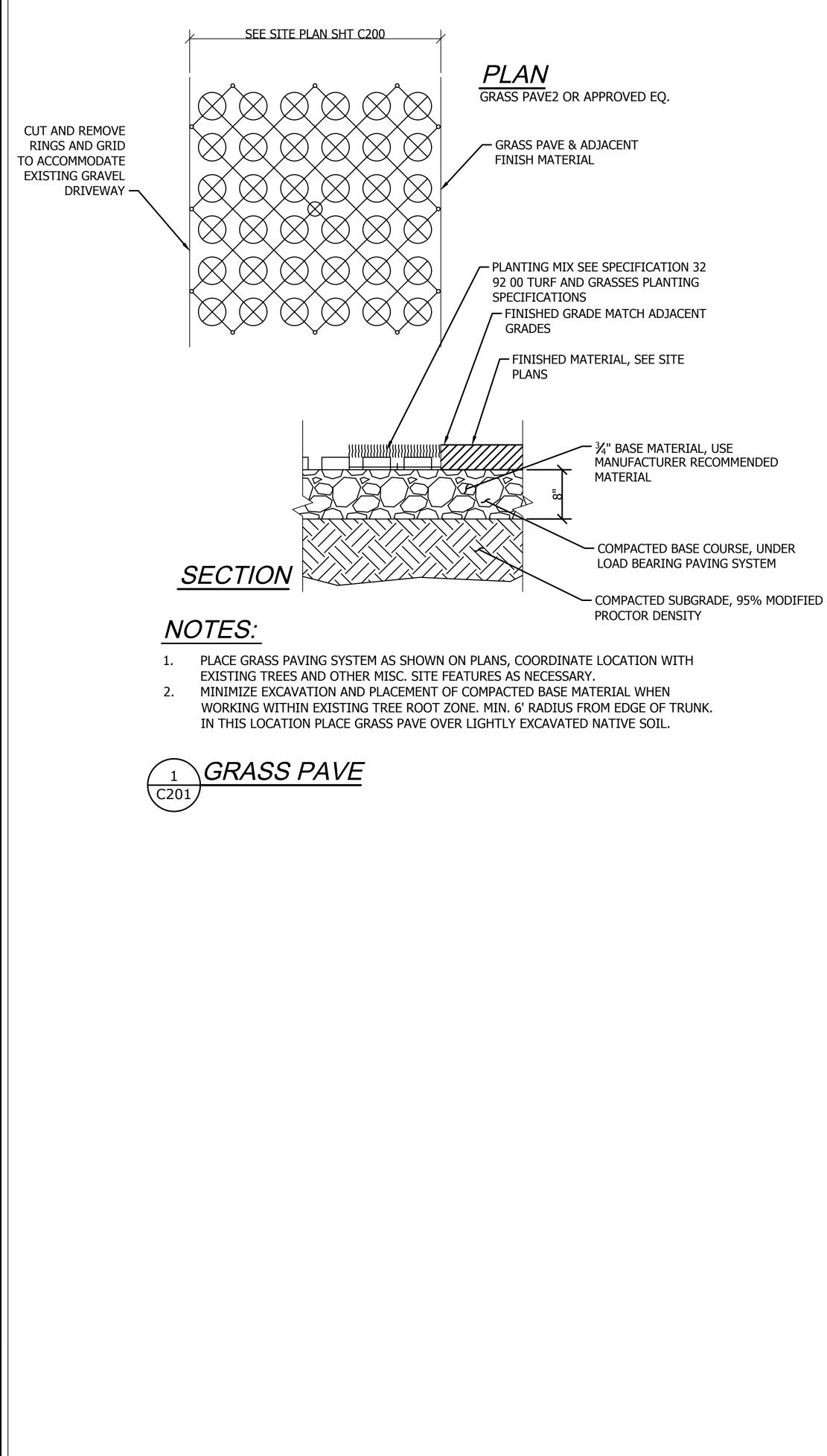
1. INSTALLATION OF THE ALTERNATIVE WATERLINE IS A CONTINGENCY BID ITEM/TASK AND WILL ONLY OCCUR IF DIRECTED BY THE OWNER.



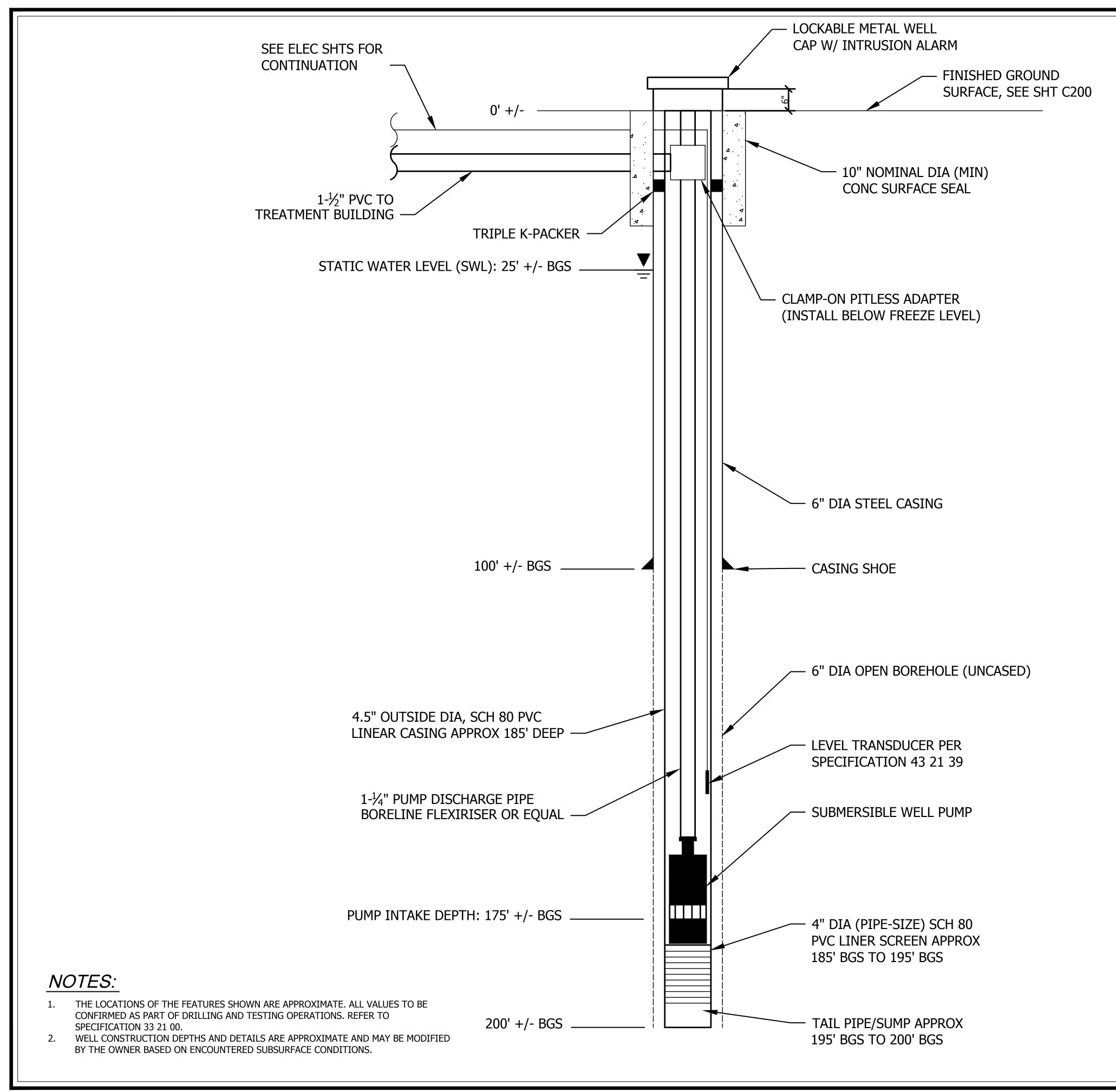
SHEET 10 OF 43

PARKS FILE#

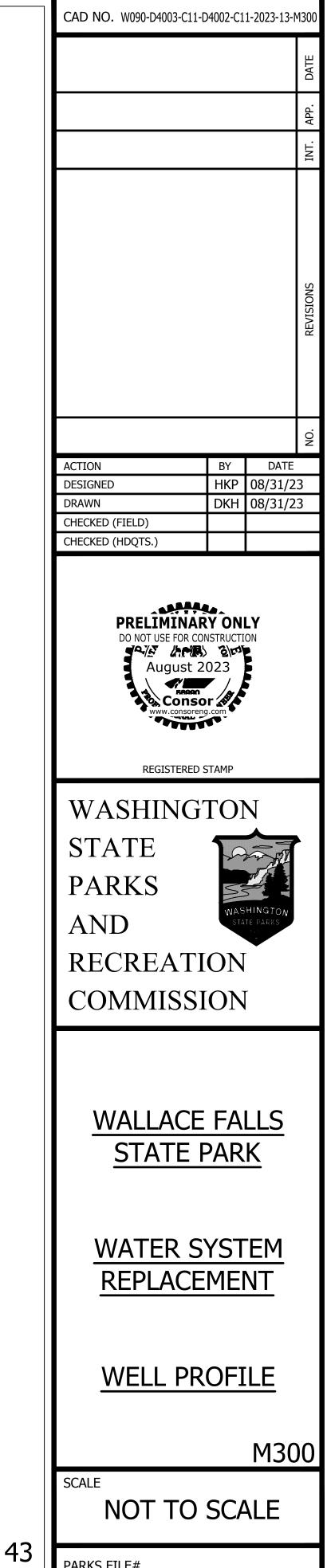




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	PRELIMINARY ONLY DO NOT USE FOR CONSTRUCTION August 2023		
	www.consoreng.com		
	REGISTERED STAMP		
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	STATE DADKS		
	PARKS		
	AND RECREATION		
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COMMISSION			
	WALLACE FALLS STATE PARK		
	WATER SYSTEM REPLACEMENT		
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SHEET 12 OF 43	PARKS FILE#		

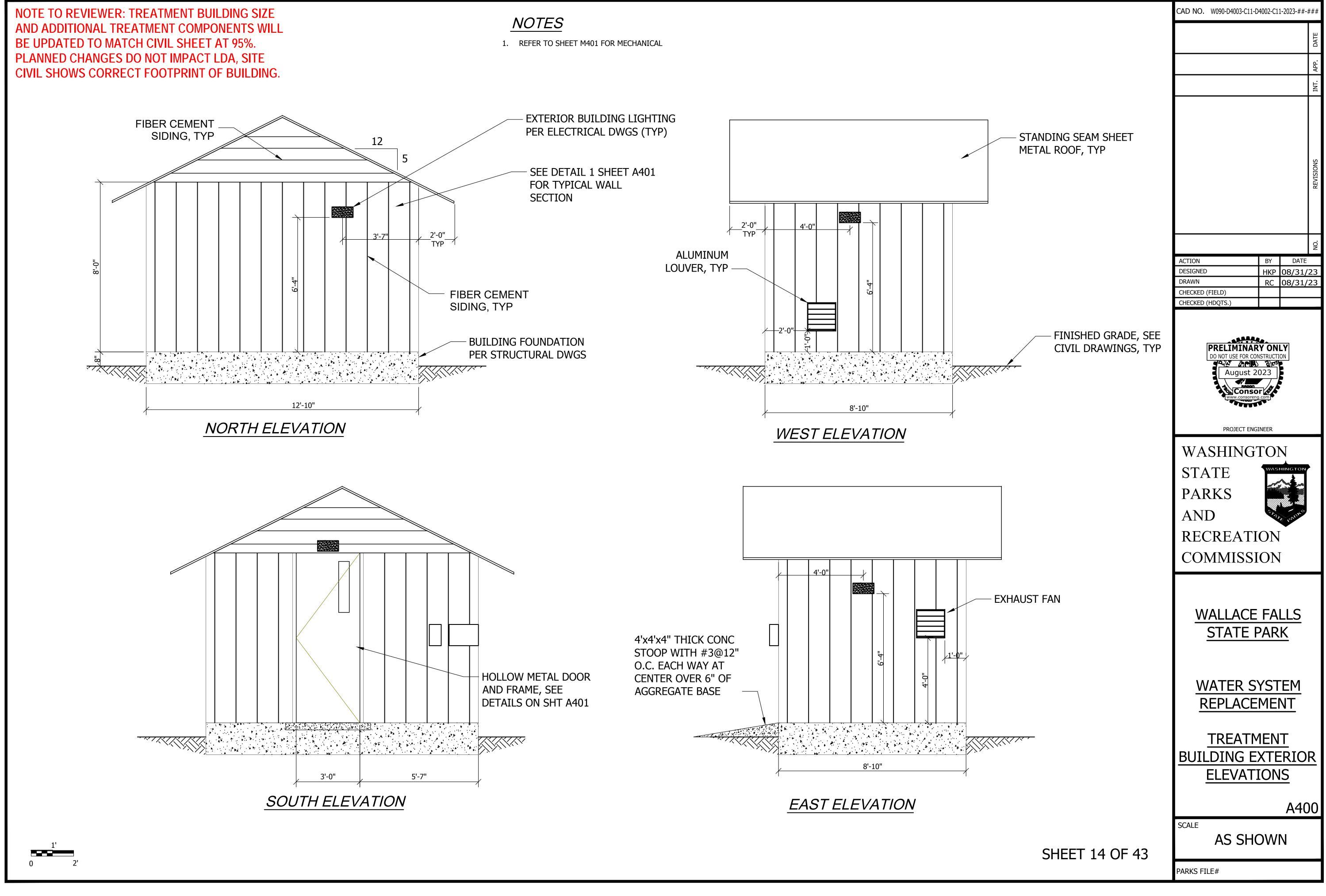


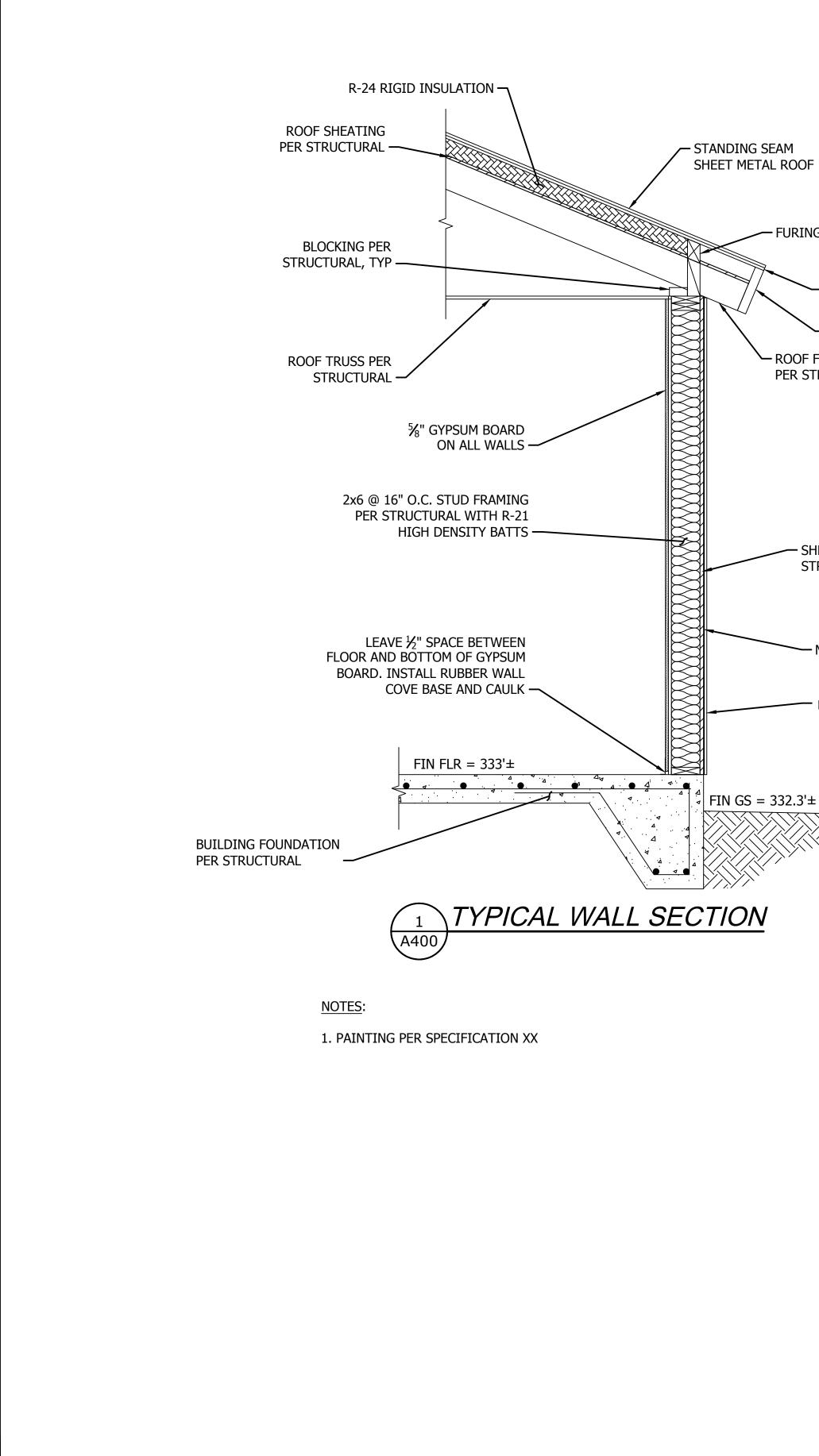
Wallace Falls State Park Water System Replacement



SHEET 13 OF 43

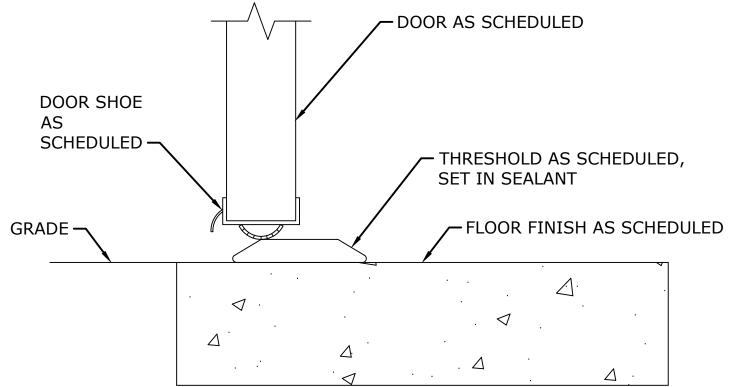
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- FURING

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- FIBER CEMENT SIDING, TYP



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	August 2023
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	PROJECT ENGINEER
	WASHINGTON
	STATE
	PARKS
	AND RECREATION
	COMMISSION
	WALLACE FALLS
	STATE PARK
	WATER SYSTEM
	<u>REPLACEMENT</u>
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SHEET 15 OF 43	AS SHOWN
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CODE			DRAWINGS)		SHOP DRA
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AND STANDARDS WHERE REF	FERENCED ON THE DRAWINGS ARE T	O BE THE	LATEST EDIT	ION.	1. REINFO 2. CONCRE
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STATEMENT OF SPECIAL INSP	PECTIONS				
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FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OR TO FABRICATION:

STEEL

X DESIGN

3. PREMANUFACTURED WOOD TRUSSES

SHALL BE REVIEWED, REVISED AS REQUIRED FOR FIELD CONDITIONS, AND DATE CONTRACTOR PRIOR TO REVIEW BY THE ENGINEER. CONTRACTOR SHALL PROVIDE P DRAWINGS FOR ENGINEER'S REVIEW. ALLOW TWO WEEKS FOR SHOP DRAWING GINEER.

P DRAWING REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OCUMENTS. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING R FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE MAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFORMING AND L QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATION PROCESSES, FOR ASSEMBLY, AND FOR PERFORMING THE WORK IN A SAFE MANNER.

P DRAWING REVIEW OF STRUCTURAL COMPONENTS DESIGNED BY OTHERS IS FOR ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE ND ALL CONNECTIONS TO THE BASIC STRUCTURE. SHOP DRAWINGS SHALL FUDE AND DIRECTION OF THE LOADS IMPOSED ON THE BASIC STRUCTURE AND D & SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE SAME STATE AS

ALL BEGIN ONLY AFTER SHOP DRAWINGS BEARING THE STAMP AND SIGNATURE OF CHITECT, ENGINEER OF RECORD, AND CONTRACTOR HAVE BEEN RECEIVED.

OVAL ITEMS

JMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE CORD WHO SHALL REVIEW THEM AND INDICATE THAT THE DEFERRED SUBMITTAL VE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT TIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE AL. DEFERRED SUBMITTALS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL TERED IN THE SAME STATE AS THE PROJECT.

URED WOOD TRUSSES

PREAD FOOTINGS

REPORT NOT AVAILABLE AT TIME OF DESIGN

PRESSURE: 1500 PSF (ASSUMED)

BEAR ON FIRM UNDISTURBED EARTH OR 12" OF COMPACTED STRUCTURAL FILL " BELOW ADJACENT EXTERIOR GRADE. ANY FOOTING ELEVATIONS SHOWN IN THE ESENT MINIMUM DEPTHS AND ARE FOR BIDDING ONLY. ACTUAL FOOTING SUBJECT TO SITE CONDITIONS AND MUST THEREFORE BE ESTABLISHED BY THE DOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE, UNLESS NOTED

HALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH CI 318 AND THE AMERICAN CONCRETE INSTITUTE'S SPECIFICATIONS FOR NCRETE FOR BUILDINGS (ACI 301).

HALL BE STONE-AGGREGATE CONCRETE HAVING A UNIT WEIGHT OF 150 POUNDS PER CUBIC FOOT.

IGTHS AT 28 DAYS (f'c) AND MIX CRITERIA SHALL BE AS FOLLOWS:

e of Uction	f'c	MAXIMUM WATER/CEMENT RATIO	MIN CEMENT CONTENT PER CUBIC YARD	MAXIMUM SHRINKAGE STRAIN
N GRADE	4000 PSI	0.48	5 1/2 SACK	N/A
INGS	4000 PSI	0.48	5 1/2 SACK	N/A

IOUNT OF CEMENT LISTED ABOVE MAY BE CHANGED IF A CONCRETE PERFORMANCE D TO THE ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS IG ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF ND COARSE AGGREGATE, WATER, AND ADMIXTURES AS WELL AS THE RATIO, SLUMP, CONCRETE YIELD, AND SUBSTANTIATING STRENGTH DATA IN TH CHAPTER 26 OF ACI 318.

(POSED TO WEATHER OR TO FREEZING TEMPERATURES SHALL BE AIR-ENTRAINED WITH ACI 318 TABLE 19.3.3.1 FOR MODERATE EXPOSURE CLASS F1.

REINFORCING STEEL

REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, AND SHALL BE GRADE 60 (Fy = 60,000 PSI), UNLESS NOTED OTHERWISE. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615 MAY BE WELDED IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN AWS D1.4 ARE SUBMITTED.

REINFORCING STEEL SHALL BE DETAILED INCLUDING HOOKS AND BENDS IN ACCORDANCE WITH ACI SP-66 AND ACI 318, LATEST EDITIONS. UNLESS OTHERWISE NOTED, REINFORCING SPLICE LENGTHS AND DEVELOPMENT LENGTHS SHALL BE PER SCHEDULE.

REINFORCING SHALL BE PLACED AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET-SETTING EMBEDDED ITEMS IS NOT ALLOWED WITHOUT PRIOR ENGINEER APPROVAL. BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD BENT UNLESS SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. REFER TO CHAPTER 25 OF ACI 318 FOR OTHER REINFORCING STEEL REQUIREMENTS.

MINIMUM LAPS AND EMBEDMENT

UNLESS OTHERWISE NOTED, REINFORCING SPLICE LENGTHS AND DEVELOPMENT LENGTHS SHALL BE AS TABULATED BELOW:

f'c = 4000 PSI							
	C	EVELOPM	ENT LENGTH	LAP SPLICE			
BAR	TEN	SION	COMPRESSION	TEN	SION	COMPRESSION	
SIZE	TOP BARS	OTHER BARS	ALL BARS	TOP BARS	OTHER BARS	ALL BARS	
#3	19	15	8	24	19	12	
#4	25	19	10	33	25	15	
#5	31	24	12	41	31	19	
#6	37	29	15	49	37	23	
#7	54	42	17	71	54	27	
#8	62	48	19	81	62	30	

2. ALL LAP SPLICES ARE CLASS B.

3. "TOP BARS" ARE HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

CONCRETE COVER ON REINFORCING

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:

CONCRETE EXPOSED TO EARTH AND WEATHER:

#6 BARS AND LARGER #5 BARS AND SMALLER

CONCRETE NOT EXPOSED TO EARTH OR WEATHER:

SLABS, WALLS AND JOISTS COLUMN TIES OR SPIRALS AND BEAM STIRRUPS

CONCRETE GENERAL NOTES

PROVIDE CORNER BARS TO MATCH THE HORIZONTAL REINFORCING WITH TENSION LAP SPLICE AT EACH SIDE PER TABLE, OR BEND ONE SIDE OVER TO PROVIDE TENSION LAP.

ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND PROPERLY PREPARED IMMEDIATELY PRIOR TO POURING OF CONCRETE. DOWEL STEEL SHALL BE THE SAME SIZE AND SPACING AS MAIN REINFORCING DETAILED BEYOND JOINT.

BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD BENT UNLESS SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

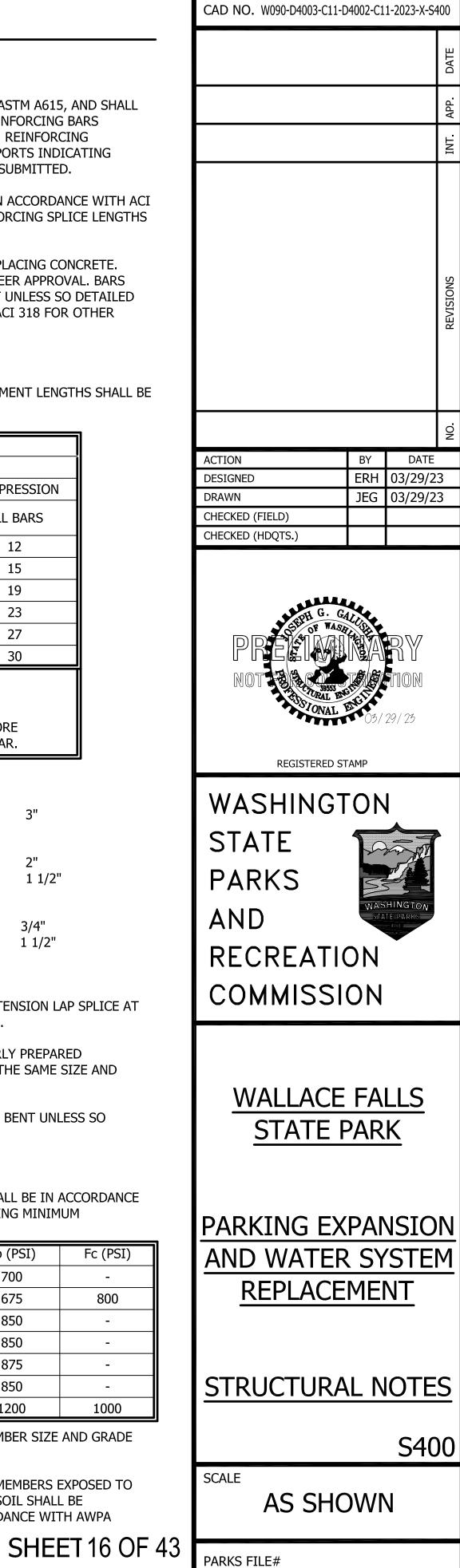
LUMBER

ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED. ALL LUMBER SHALL BE IN ACCORDANCE WITH WWPA GRADING RULES, KILN-DRIED TO MC 19 AND OF THE FOLLOWING MINIMUM STANDARDS:

SIZE CLASSIFICATION	SPECIES	GRADE	Fb (PSI)	Fc (PSI)
SLEEPERS	DOUG-FIR	STUD	700	-
LIGHT FRAMING (STUDS)	HEM-FIR	STUD	675	800
2x JOISTS AND PLANKS	HEM-FIR	#2	850	-
PLATES AND BLOCKING	HEM-FIR	#2	850	-
6x AND LARGER BEAMS AND STRINGERS	DOUG-FIR	#2	875	-
4x AND SMALLER BEAMS AND STRINGERS	HEM-FIR	#2	850	_
ALL POSTS AND TIMBERS	DOUG-FIR	#1	1200	1000

REFER TO PLAN NOTES, SCHEDULES, AND DETAILS FOR MORE SPECIFIC LUMBER SIZE AND GRADE REQUIREMENTS.

UNLESS NOTED OTHERWISE IN THE PLANS, ALL WOOD AND WOOD-BASED MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE, MASONRY, OR WITHIN 8" OF SOIL SHALL BE PRESERVATIVE-TREATED BY VACUUM-PRESSURE IMPREGNATION IN ACCORDANCE WITH AWPA STANDARD U1.



1 1/2"

3"

3/4" 1 1/2"

STRUCTURAL NOTES (THESE NOTES ARE TYPICAL UNLESS NOTED OR DETAILED OTHERWISE ON DRAWINGS) NAILS, BOLTS, AND METAL CONNECTORS FOR WOOD ALL NAILS SHALL CONFORM TO THE STANDARDS SET FORTH BY THE NATIONAL DESIGN STANDARDS (NDS) FOR WOOD CONSTRUCTION, LATEST EDITION. NAILING NOT SPECIFIED SHALL BE PER IBC TABLE 2304.10.1 NAILING SCHEDULE. ALL NAILS CALLED OUT ON PLANS SHALL BE COMMON NAILS UNLESS NOTED OTHERWISE AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM GUIDELINES: NAIL SHANK Ø MIN LENGTH 2 1/2" SHANK 8d COMMON 0.131"Ø 0.148"Ø 10d COMMON 3" SHANK 3 1/4" SHANK 12d COMMON 0.148"Ø 3 1/2" SHANK 0.162"Ø 16d COMMON 10d BOX NAILS MAY BE SUBSTITUTED FOR 8d COMMON NAILS WITH NO CHANGE IN NAIL SPACING. FRAMING MEMBERS MAY BE NAILED WITH 16d SINKERS (0.148"Ø x 3 1/4"), BUT ONLY 16d COMMON NAILS SHALL BE USED WHERE 16d NAILS ARE INDICATED IN THIS DRAWING SET. ENGINEER MAY APPROVE OTHER NAILS IF NAIL LABELS ARE SUBMITTED TO ENGINEER PRIOR TO START OF CONSTRUCTION. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. LEAD HOLES FOR LAG BOLTS SHALL BE BORED FOR THE SHANK AND THREADED PORTIONS PER NDS 12.1.4.2.

CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, CATALOG TO BE THE LATEST EDITION, OR ENGINEER APPROVED EQUAL. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WITH THE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY THE MANUFACTURER. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS, SCREWS, OR BOLTS IN EACH MEMBER.

INSTALL SOLID BLOCKING AT ALL BEARING POINTS. ALL SHIMS SHALL BE SEASONED, DRIED, AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

GALVANIZATION

UNLESS NOTED OTHERWISE, STEEL CONNECTORS IN CONTACT WITH TREATED WOOD SHALL BE GALVANIZED ACCORDING TO THE FOLLOWING TABLE:

GALVANIZATION	UNTREATED WOOD	CCA-C	SBX	ACQ-C ACQ-D	CBA-A CA-B	OTHER BORATE	ACZA	OTHER PT WOOD
G90	Х	Х	Х					
G185	Х	Х	Х	Х	Х	Х		
HDG	Х	Х	X	Х	Х	Х		
STT300	Х	Х	Х	Х	Х	Х	Х	Х

G90 = 0.90 OZ. OF ZINC PER SQUARE FOOT OF AREA G185 = 1.85 OZ. OF ZINC PER SQUARE FOOT OF AREA HDG = HOT DIP GALVANIZEDSST300 = TYPE 316L STAINLESS STEEL

RATED SHEATHING

RATED SHEATHING SHALL BE GRADE C-D INT-APA WITH EXTERIOR GLUE OR OSB SHEATHING WITH EXTERIOR GLUE IN CONFORMANCE WITH IBC STANDARD 2303.1.5.

PRE-MANUFACTURED WOOD TRUSSES

WOOD TRUSSES SHALL BE SIZED AND DETAILED TO FIT DIMENSIONS AND LOADS INDICATED ON THE PLANS. ALL DESIGN SHALL BE IN ACCORDANCE WITH THE ALLOWABLE VALUES AND SECTION PROPERTIES ASSIGNED BY THE BUILDING CODE. SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW PRIOR TO FABRICATION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT. TRUSS DESIGN AND SHOP DRAWINGS SHALL BE IN CONFORMANCE WITH IBC 2303.4

PROVIDE TEMPORARY BRACING UNTIL SHEATHING AND PERMANENT BRACING IS INSTALLED. MANUFACTURER SHALL PROVIDE ALL SPECIALTY ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF JOISTS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

FOR TOP CHORD DESIGN LIVE LOADS, REFER TO THE DESIGN LOAD SECTION. IN ADDITION TO ROOF LOADING LISTED IN THE DESIGN LOAD SECTION, ROOF TRUSSES SHALL BE DESIGNED FOR A BOTTOM CHORD LIVE LOAD OF 10 PSF. TOP AND BOTTOM CHORD LIVE LOAD DO NOT NEED TO BE DESIGNED FOR SIMULTANEOUSLY.

IN ADDITION TO THEIR SELF WEIGHT, ROOF TRUSSES SHALL BE DESIGNED FOR A TOP CHORD DEAD LOAD OF 5 PSF AND A BOTTOM CHORD DEAD LOAD OF 10 PSF ACTING SIMULTANEOUSLY. SEE MECHANICAL DRAWINGS FOR LOADS AND OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. DEFLECTIONS SHALL NOT EXCEED L/360 FOR LIVE LOADS, OR L/240 FOR TOTAL LOADS.

TYPICAL FRAMING NOTES

WALL PLATES BEARING ON CONCRETE SHALL BE PRESSURE-TREATED. FOR ALL EXTERIOR WALLS, BOLT PLATES OR SILLS TO CONCRETE STEM WALLS OR THICKENED SLAB FOOTINGS WITH 5/8 INCH DIAMETER ANCHOR BOLTS WITH 7 INCH MINIMUM EMBEDMENT. PLACE AT 5'-0" OC MAXIMUM AND USE MINIMUM OF TWO ANCHOR BOLTS PER SILL AND PLACE ONE WITHIN 12 INCHES OF END OF PLATES, TYPICAL UNLESS NOTED OR DETAILED OTHERWISE. AT ALL SILL PLATE ANCHOR BOLTS, CONTRACTOR SHALL INSTALL 1/4" x 3" x 3" FLAT PLATE WASHERS.

PROVIDE 1 1/2" FULL DEPTH BLOCKING FOR TRUSSES AND RAFTERS AT ALL SUPPORTS.

4. DIAPHRAGM NAILING

ALL SHEAR WALLS, FLOOR AND ROOF DIAPHRAGM NAILINGS SHALL BE AS CALLED OUT ON THE PLANS. EXTERIOR WALLS SHALL BE SHEATHED AND NAILED TO SUPPORTING FRAMING WITH 8d NAILS AT 6" OC AT ALL PANEL EDGES AND 12" OC AT ALL INTERMEDIATE SUPPORTS.

THE USE OF NAIL GUNS WILL BE APPROVED IF NAILING INTO THE DIAPHRAGMS CAN BE INSTALLED FLUSH WITH FACE OF SHEATHING. NAIL PENETRATIONS GREATER THAN 1/16" ARE NOT ACCEPTABLE.

CUTTING AND/OR NOTCHING OF WOOD STUDS OR PLATES SHALL NOT EXCEED 25% OF THE STUD/PLATE WIDTH IN EXTERIOR AND BEARING WALLS AND SHALL NOT EXCEED 40% OF THE STUD/PLATE WIDTH IN ANY NON-BEARING PARTITIONS. BORED HOLE DIAMETER IS LIMITED TO 40% OF STUD/PLATE WIDTH IN ANY STUD AND MAY BE 60% IN NONBEARING PARTITIONS OR IF STUD IS DOUBLED. MAINTAIN 5/8" MINIMUM EDGE DISTANCE FROM HOLE EDGE.

ALL GYPSUM WALLBOARD SHALL BE NAILED TO ALL STUDS AND TOP AND BOTTOM PLATES WITH 6d COOLER NAILS OR NO. 13 GAUGE x 1 5/8" @ 7" OC (5d COOLER NAILS FOR 1/2 INCH GYPSUM SHEATHING). TYPICAL UNLESS NOTED OTHERWISE. INSTALLATION OF GWB SHALL BE SUCH THAT JOINTS ARE STAGGERED ON EACH SIDE OF A SINGLE WALL.

GENERAL

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BEFORE PROCEEDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.

CONTRACTOR TO SEE CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE DRAWINGS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION STABILITY AND TEMPORARY SHORING AS NECESSARY UNTIL PERMANENT SUPPORT AND STIFFENING ARE INSTALLED.

CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF A SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.

1. BEARING WALL FRAMING

2x STUDS @ 16" OC FOR ALL SHEAR AND/OR BEARING WALLS UNO.

2. WALL BASE PLATE ON CONCRETE

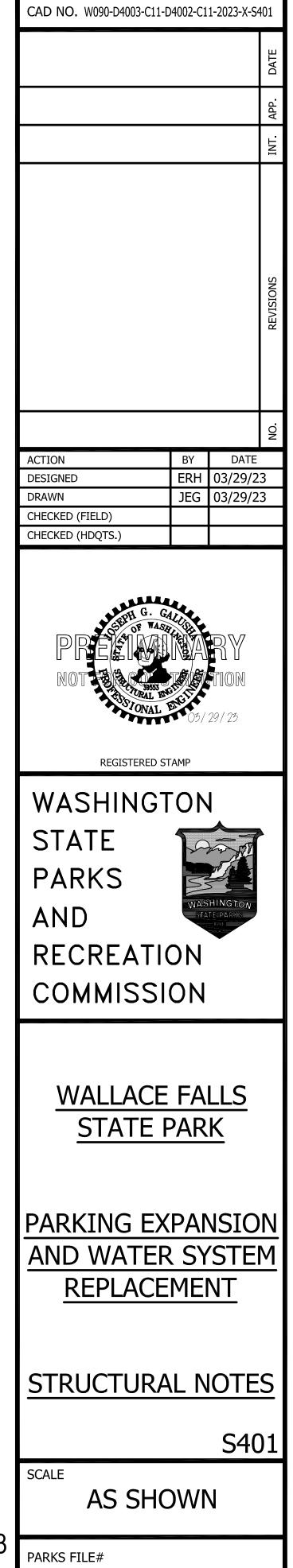
3. ROOF AND FLOOR FRAMING

5. ALLOWABLE STUD AND PLATE PENETRATIONS

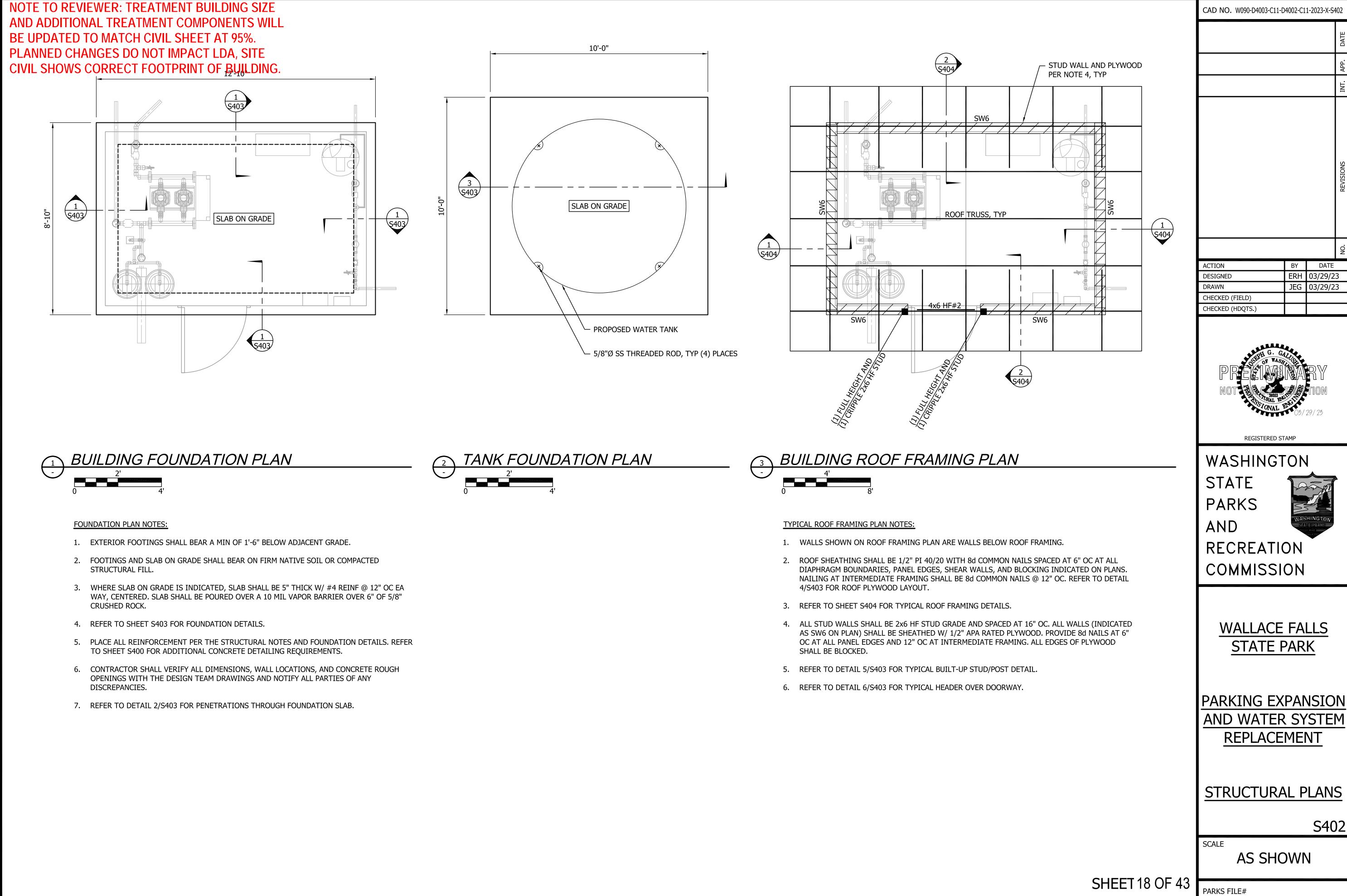
6. GYPSUM WALLBOARD NAILING

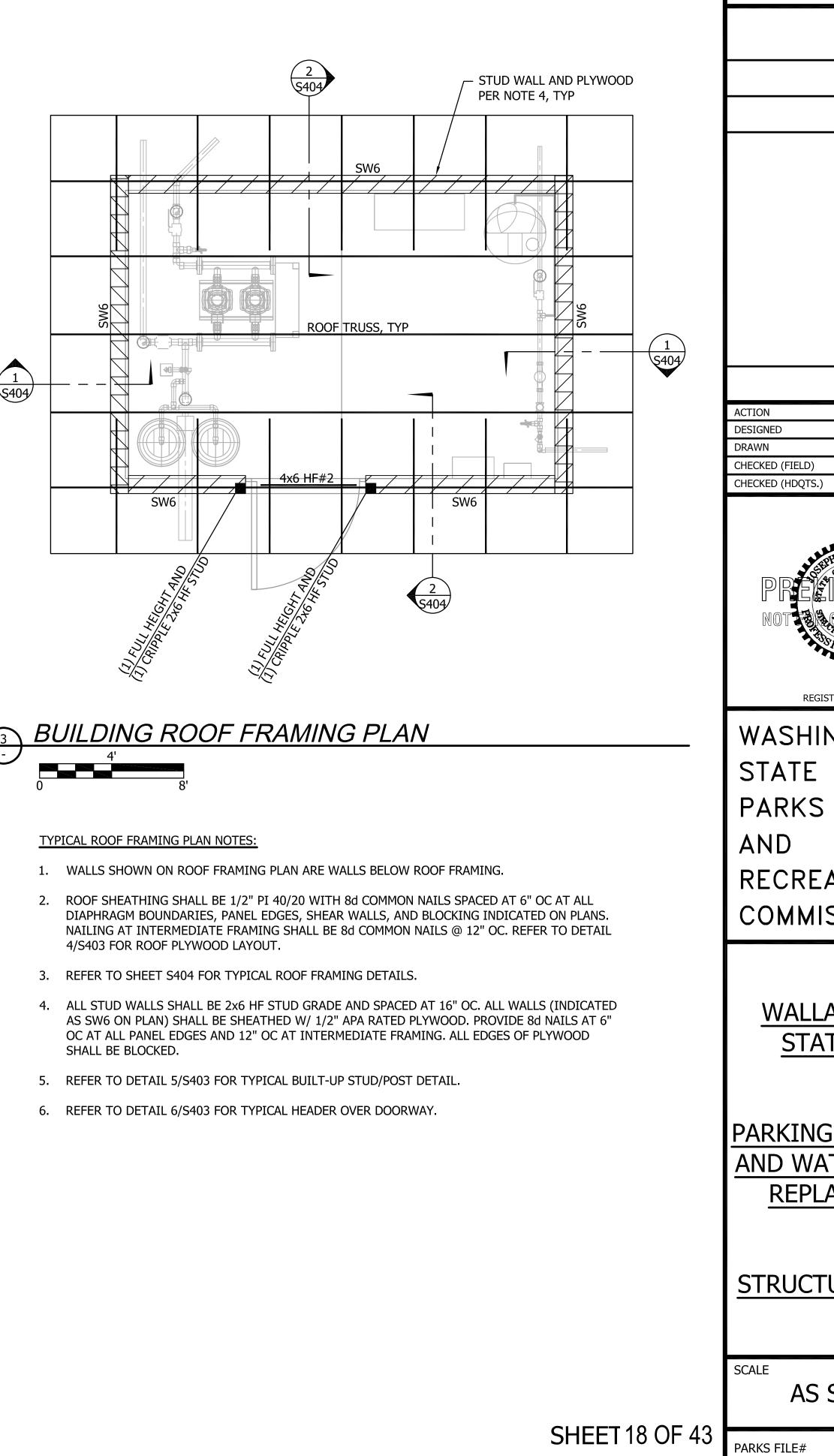
LEGEND						
DEFINITION	SYMBOL	DEFINITION	SYMBOL			
DIRECTION OF FRAMING		NATIVE SOIL				
EXTENT OF FRAMING	$\longleftrightarrow \rightarrow$	GRANULAR FILL				
COLUMNS		STRUCTURAL STEEL	\\			
Column Bearing On Beam		RATED SHEATHING	<u></u>			
BEAM CONTINUOUS OVER SUPPORT	CAR	SHEAR WALL (SEE SCHEDULE)	SWX			
CONCRETE WALL	<u>;</u> ;	COLUMN MARK (SEE SCHEDULE)	OX			
BEARING STUD WALL	<u>(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	FOOTING MARK (SEE SCHEDULE)	FX			
NON-BEARING STUD WALL	<u>\$</u> \$	HOLDOWN MARK (SEE SCHEDULE)	\otimes			
BEARING STUD SHEAR WALL	5477777775	HANGER MARK (SEE SCHEDULE)	\bigotimes			
NON-BEARING STUD SHEAR WALL	<i>\$</i>	FLAG NOTE (SEE PLAN NOTES)				
CMU WALL		STEEL MOMENT FRAME CONN.				

	ABBRE	VIATIONS	
(A)	ABOVE	HORIZ	HORIZONTAL
AB	ANCHOR BOLT	KP	KING POST
ALT	ALTERNATE	KSI	KIPS PER SQUARE INCH
ARCH	ARCHITECT	MECH	MECHANICAL
(B)	BELOW	MF	MOMENT FRAME
BLKG	BLOCKING	NS	NEAR SIDE
BM	BEAM	OC	ON CENTER
вот	воттом	OPP	OPPOSITE
BTWN	BETWEEN	PL	PLATE
CJP	COMPLETE JOINT PENETRATION	PLCS	PLACES
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
COL	COLUMN	P/T	POST TENSIONED
CONC	CONCRETE	PT	PRESSURE TREATED
CONN	CONNECTION	REINF	REINFORCING
CONT	CONTINUOUS	REQ'D	REQUIRED
DBL	DOUBLE	SCHED	SCHEDULE
DET	DETAIL	SIM	SIMILAR
DIM	DIMENSION	SOG	SLAB ON GRADE
EA	EACH	STD	STANDARD
ELEV	ELEVATION	SW	SHEAR WALL
EXIST	EXISTING	TOC	TOP OF CONCRETE
EXP	EXPANSION	TOS	TOP OF STEEL
FLR	FLOOR	TOW	TOP OF WALL
FDN	FOUNDATION	TYP	TYPICAL
FTG	FOOTING	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VFY	VERIFY
FH	FULL HEIGHT	VIF	VERIFY IN FIELD
GLB	GLUE-LAMINATED BEAM	VERT	VERTICAL



SHEET 17 OF 43





BY

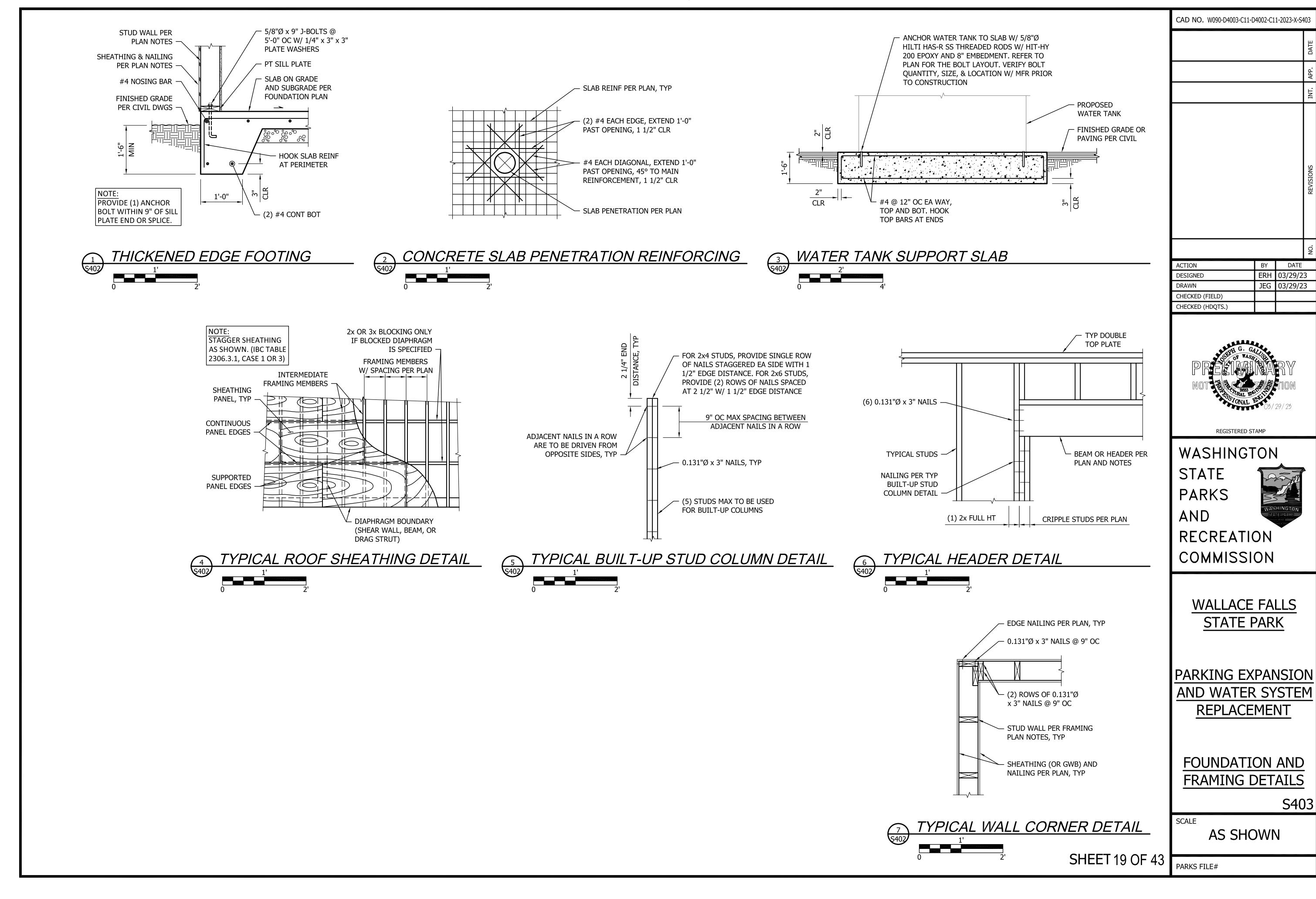
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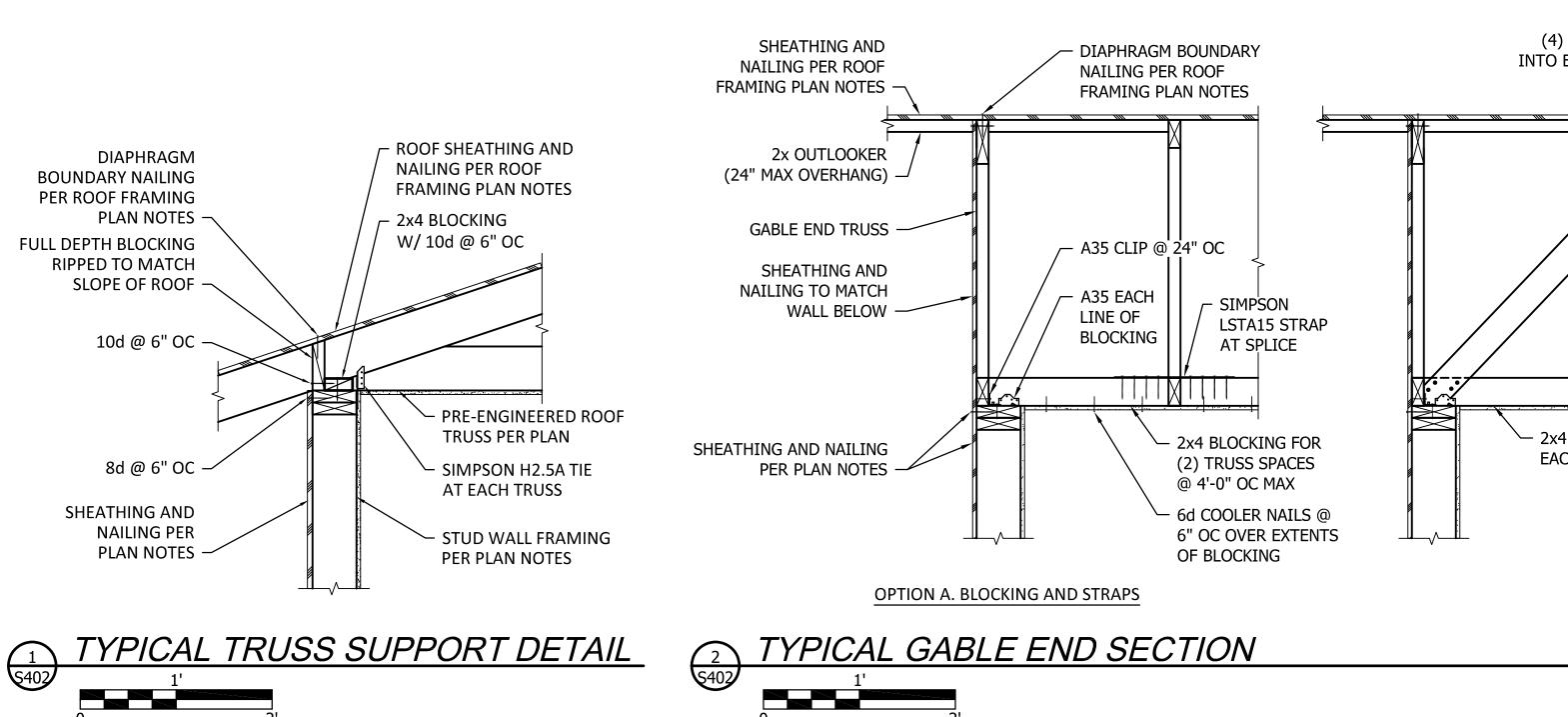
ERH 03/29/23

JEG 03/29/23

WASHINGTON STATE PARKS

S402



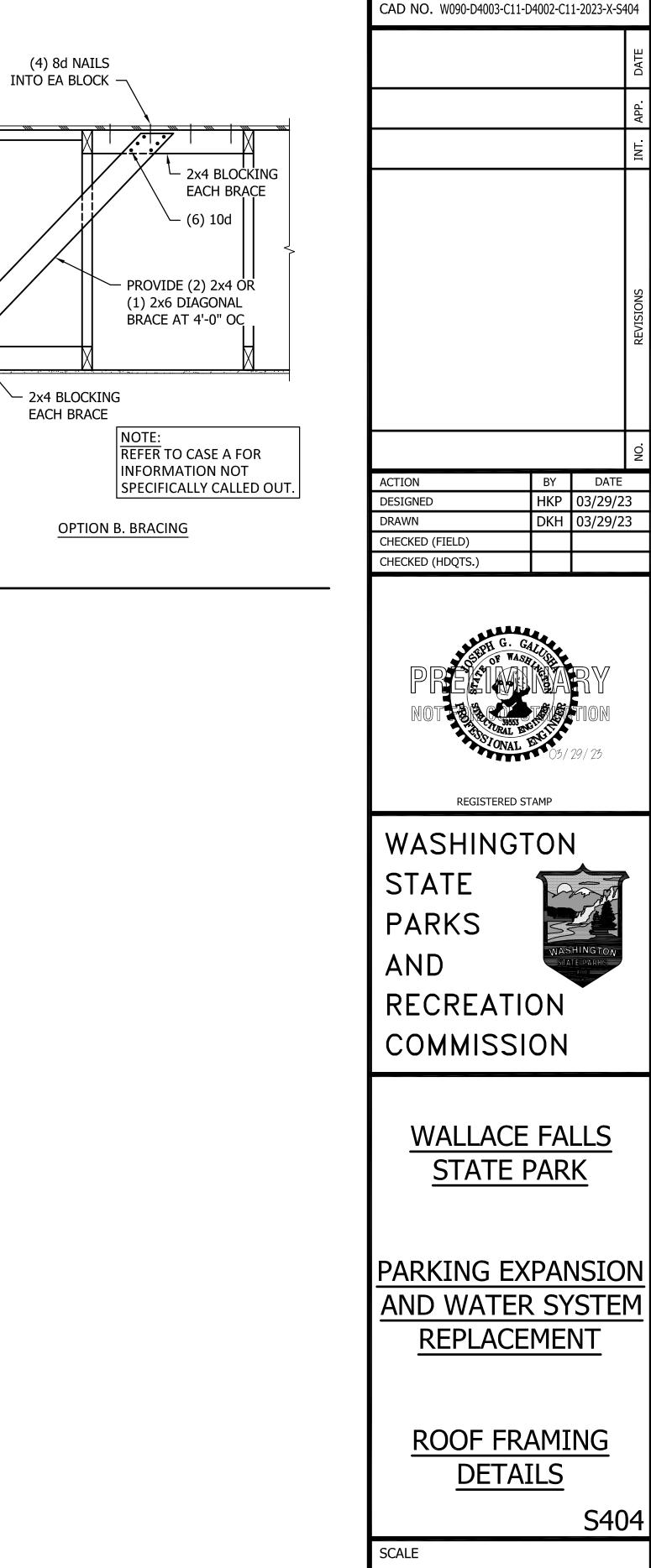


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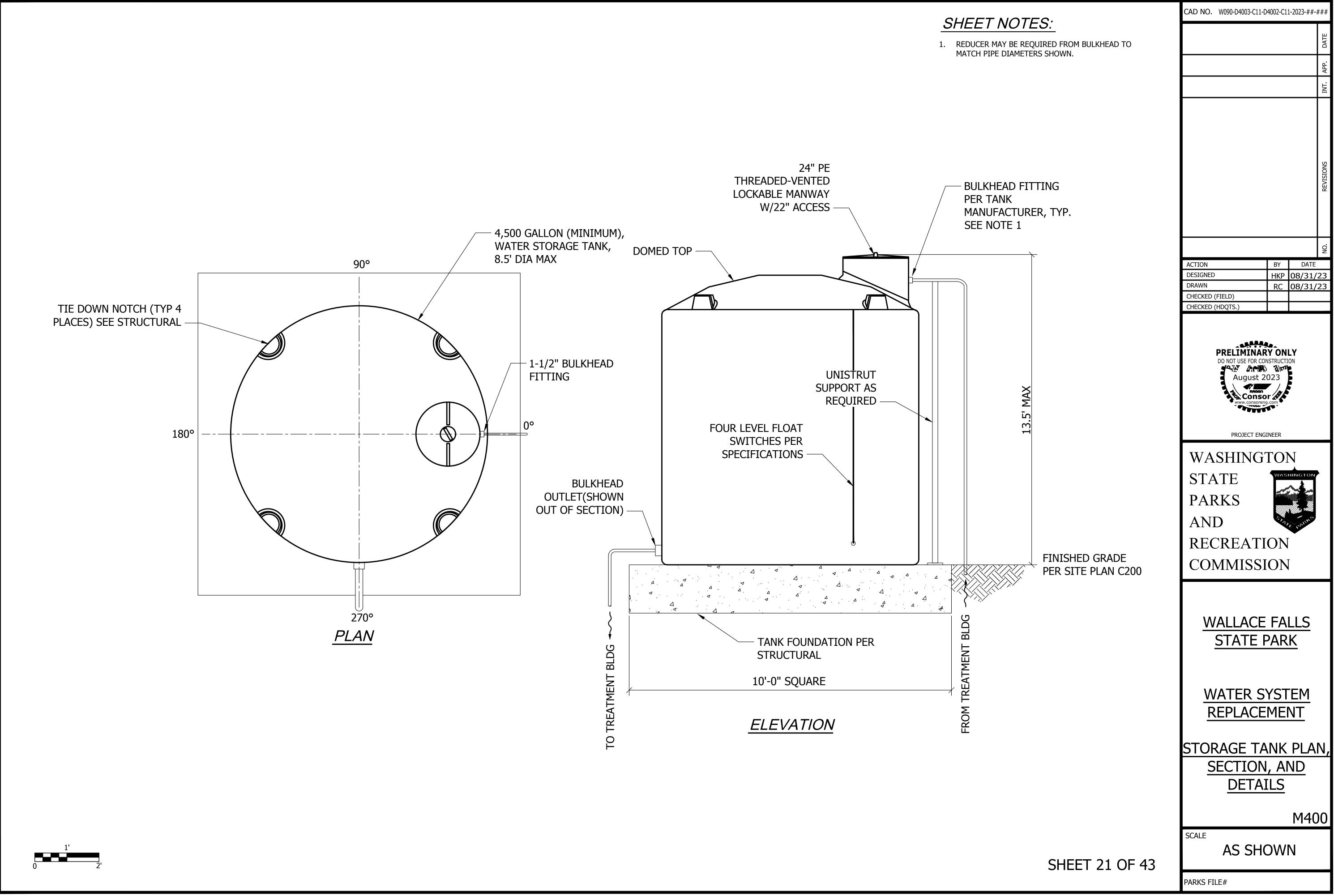
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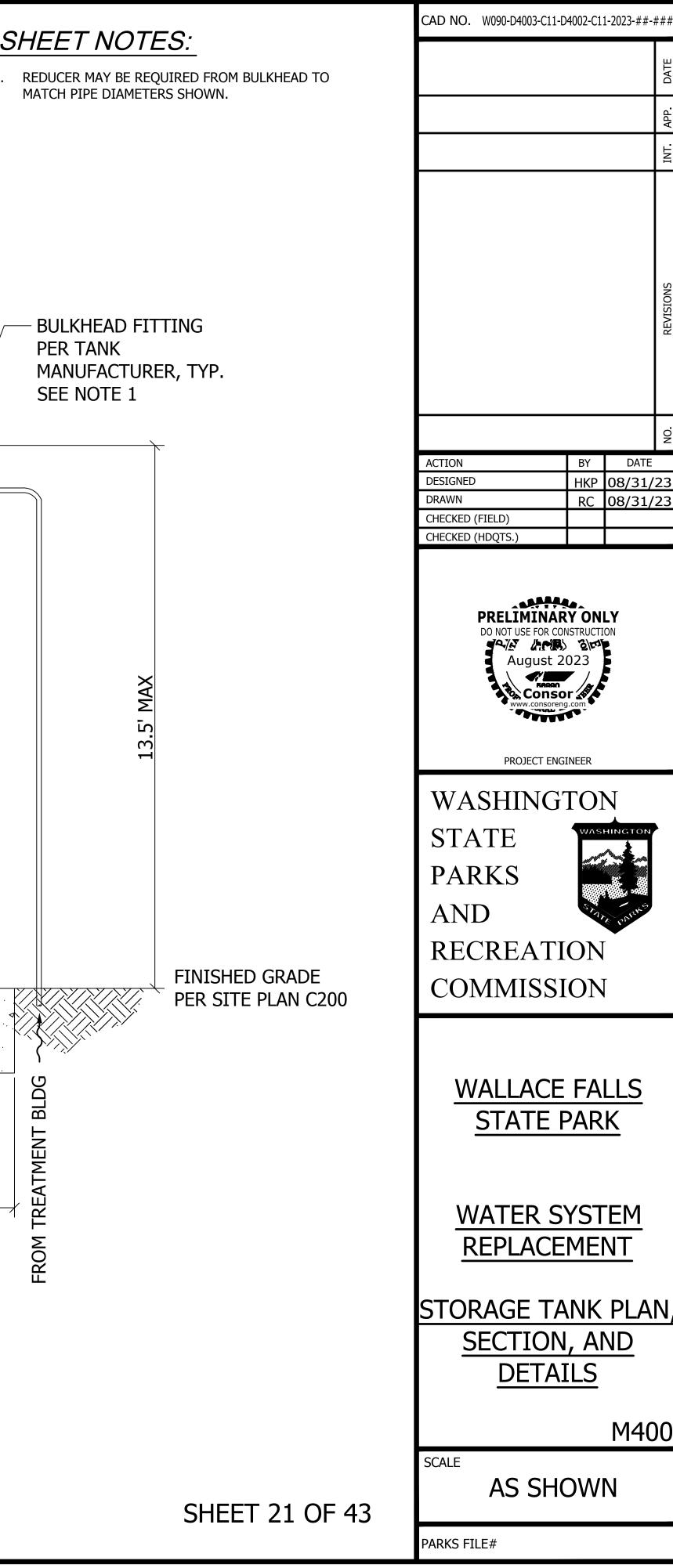


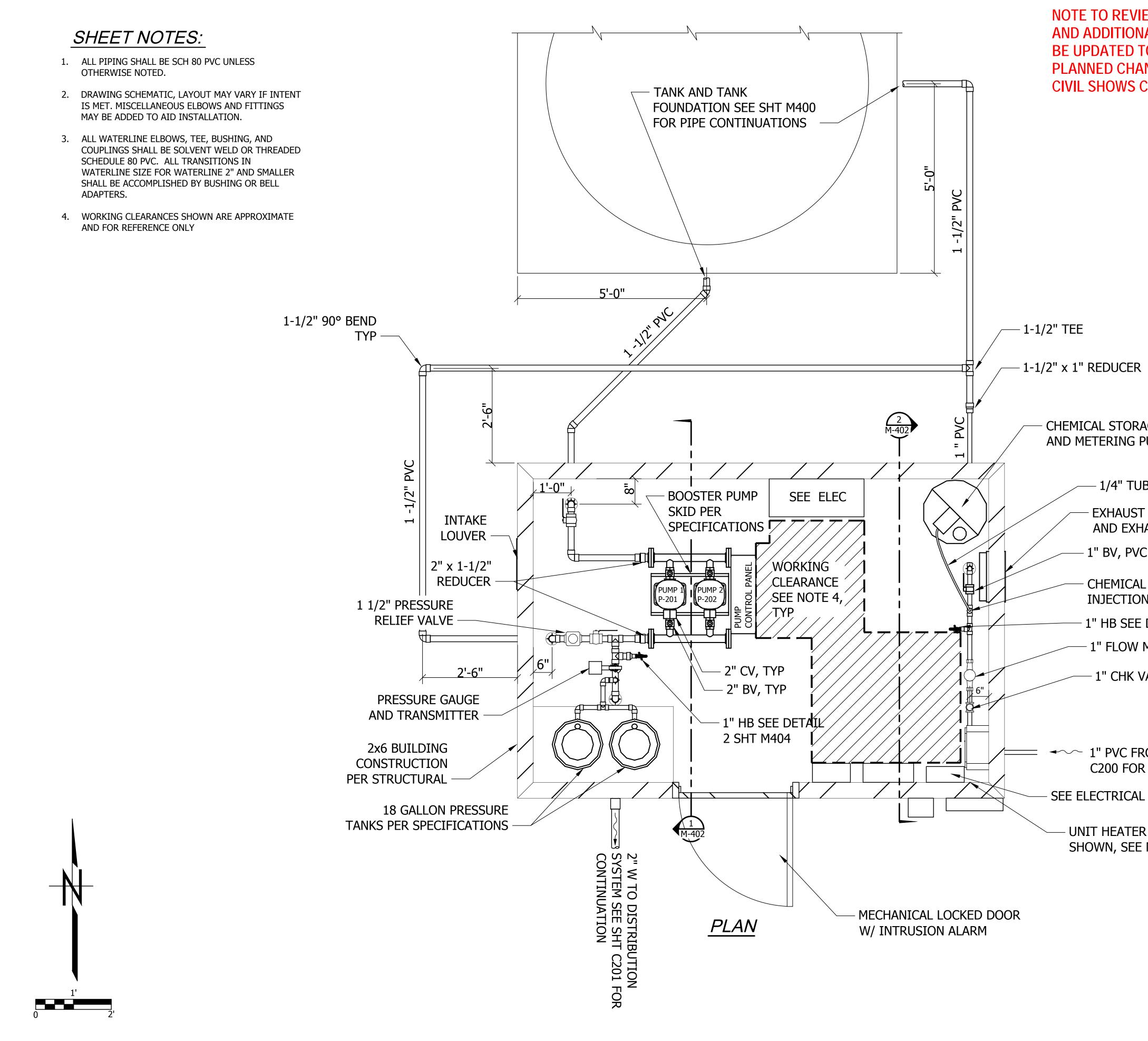
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S404

SHEET 20 OF 43 PARKS FILE#

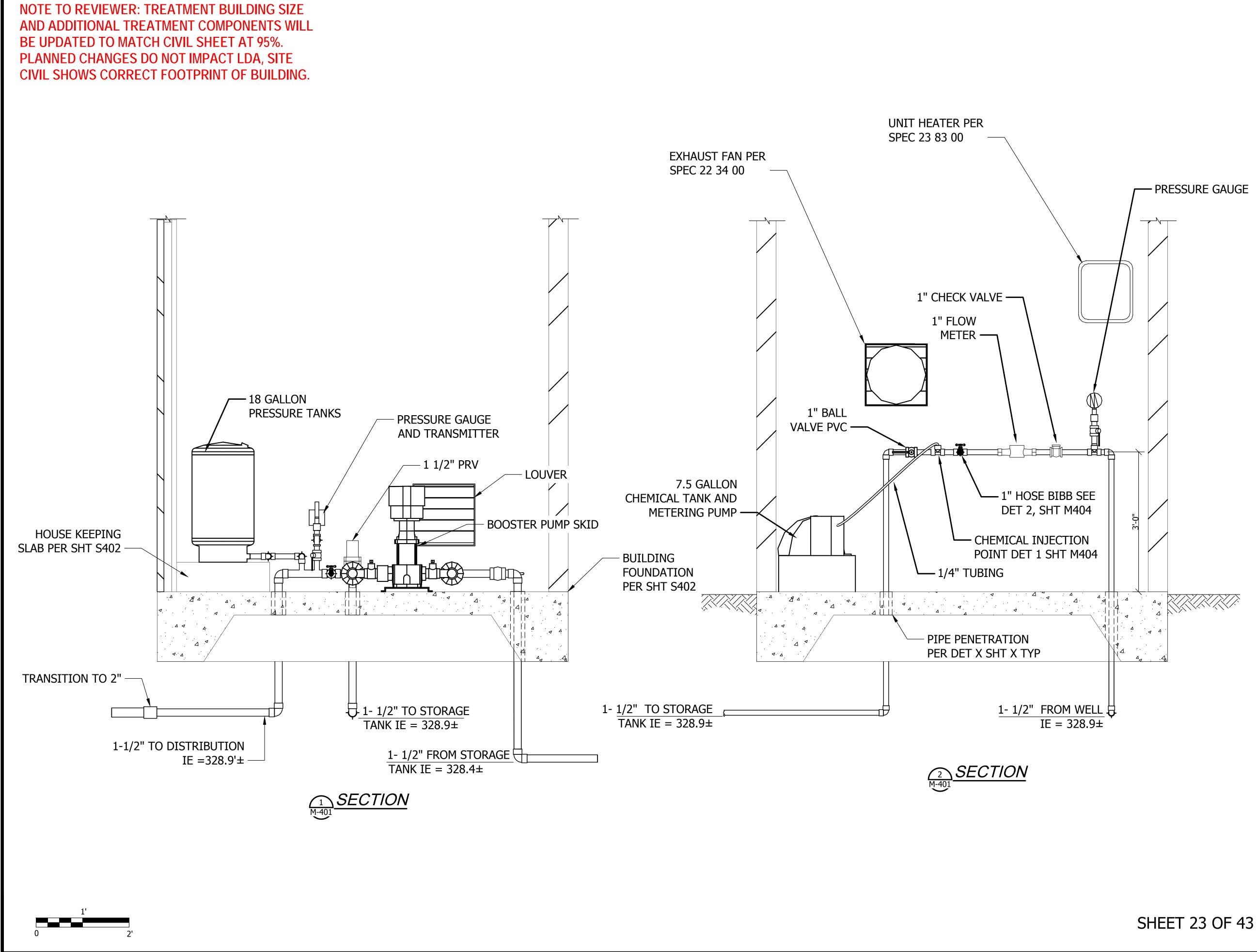


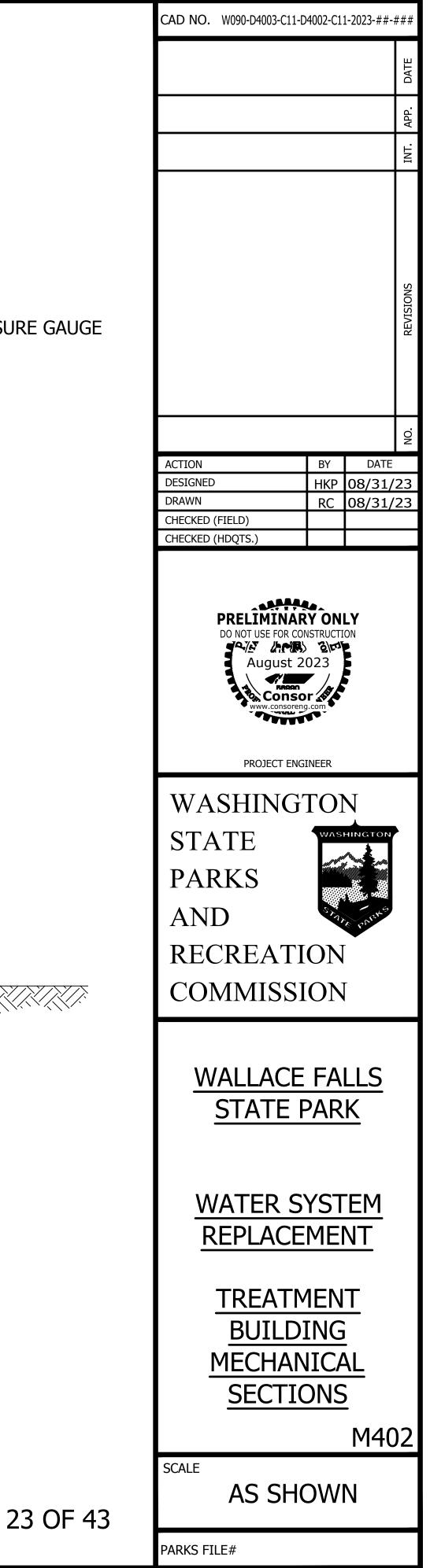


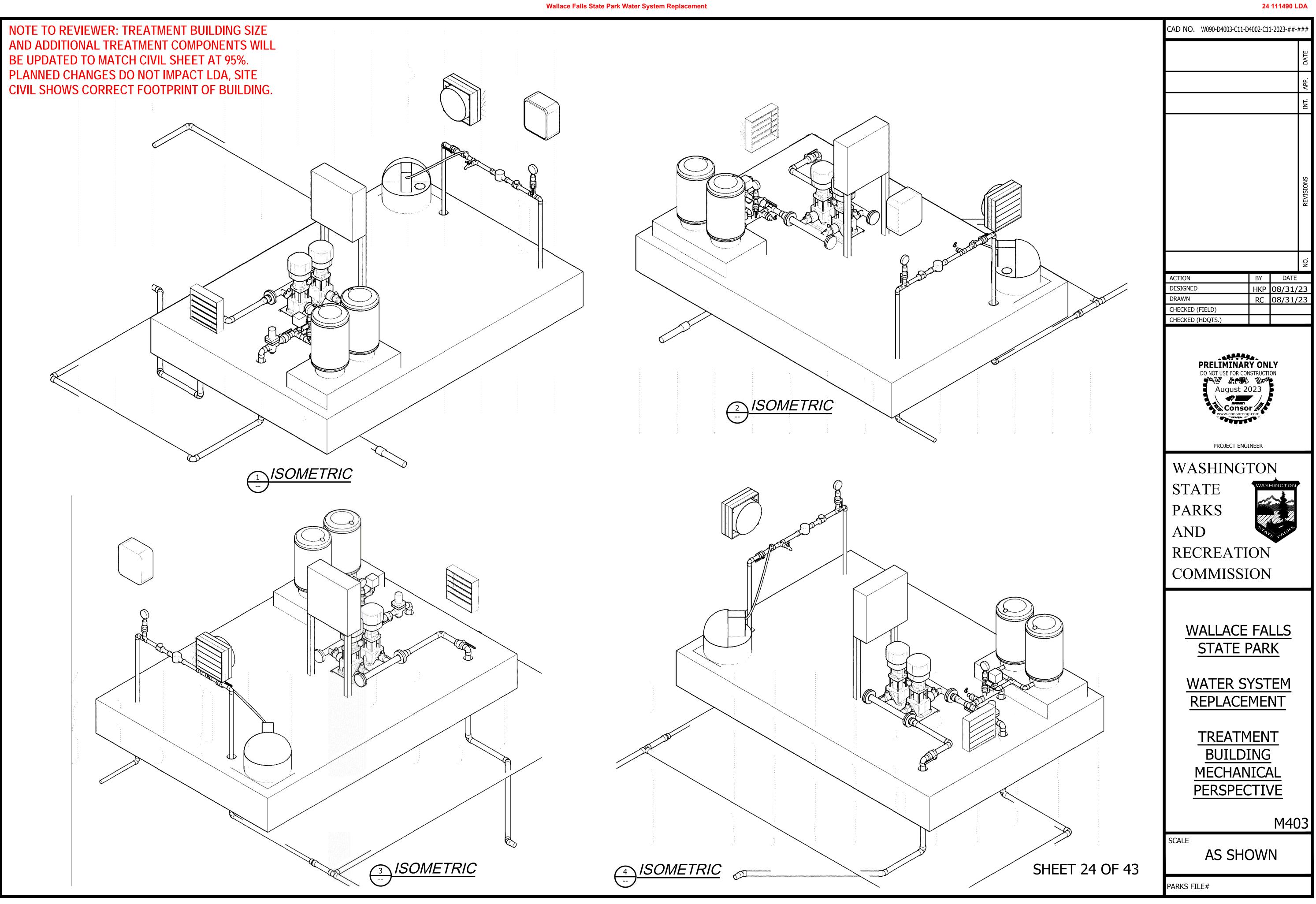


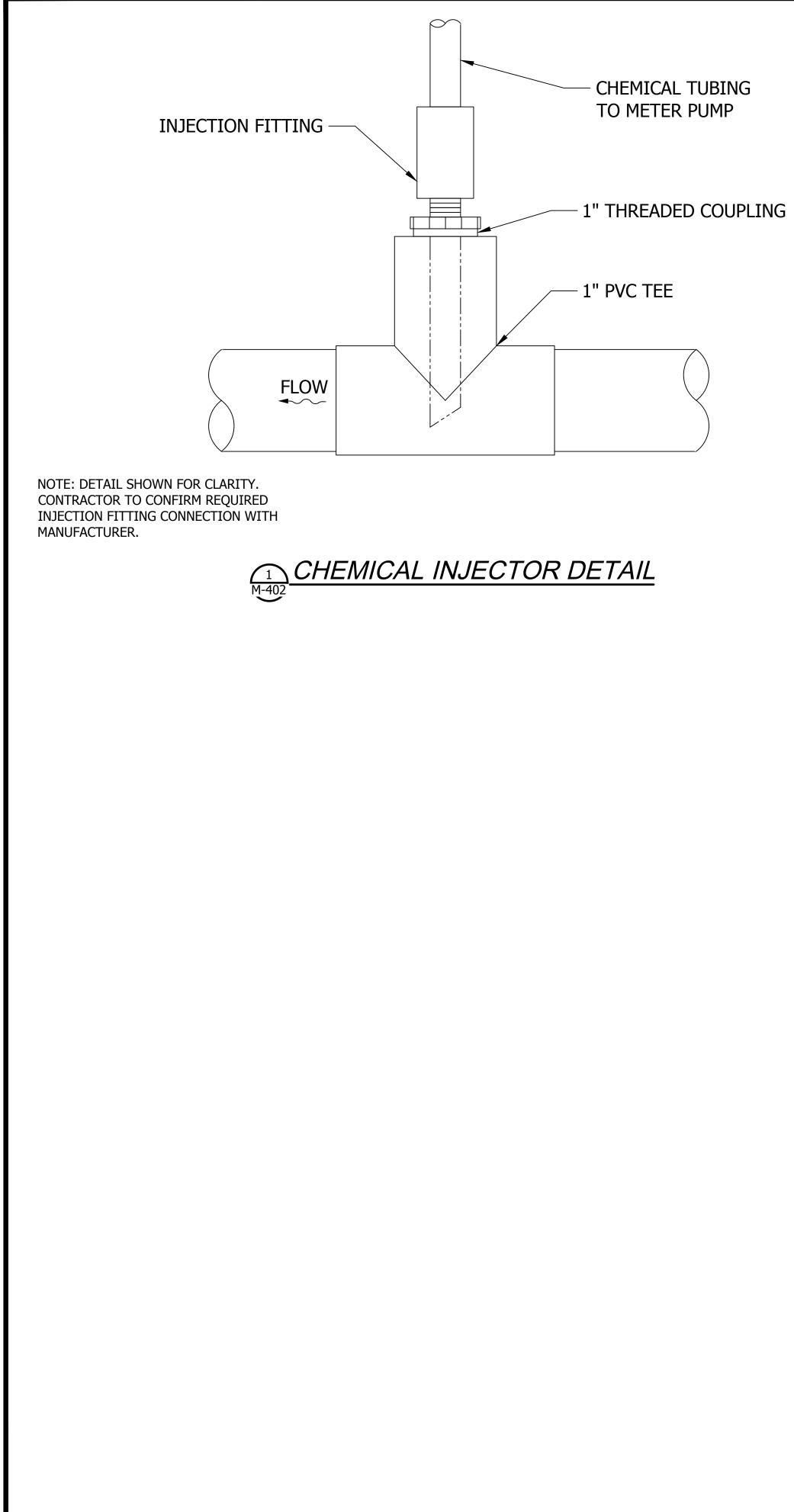
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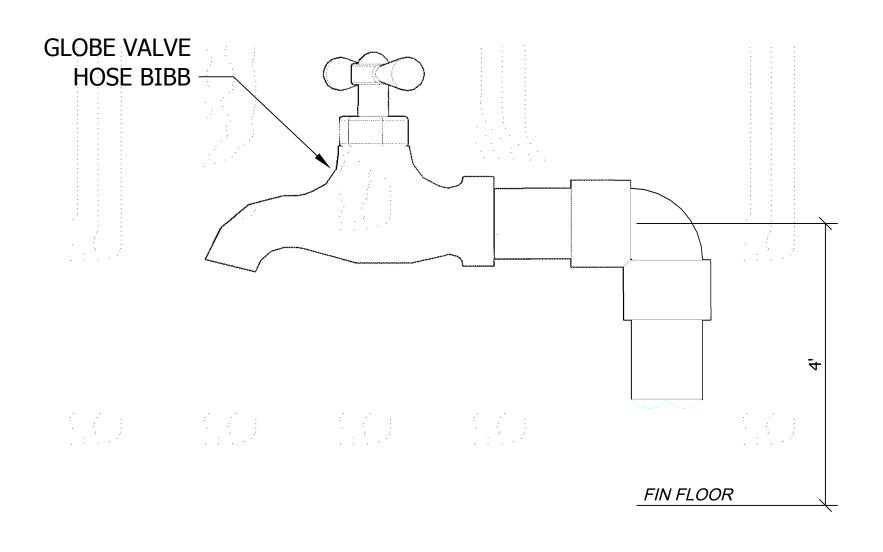
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AL TREATMENT COMPONENTS WILL O MATCH CIVIL SHEET AT 95%.				DATE
NGES DO NOT IMPACT LDA, SITE				APP.
CORRECT FOOTPRINT OF BUILDING.				INT.
				REVISIONS
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				N
	ACTION	BY	DATE	
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BING LOUVER AUST FAN C N POINT DETAIL 2 SHT M404 METER	PROJECT ENGIN WWW.CONSORED PROJECT ENGIN WASHINGT STATE PARKS AND RECREATIO		HINGTON E PARKS	
/ALVE	COMMISSION WALLACE STATE P	FA	LLS	
ROM WELL SEE SHT R CONTINUATION				
_ (TYP)	WATER SY REPLACE			
R NOT M402			-	
	<u>TREATM</u> <u>BUILDI</u> <u>MECHANICAI</u> <u>PLAN</u>	NG L F		
SHEET 22 OF 43	SCALE AS SHC)WI	N	
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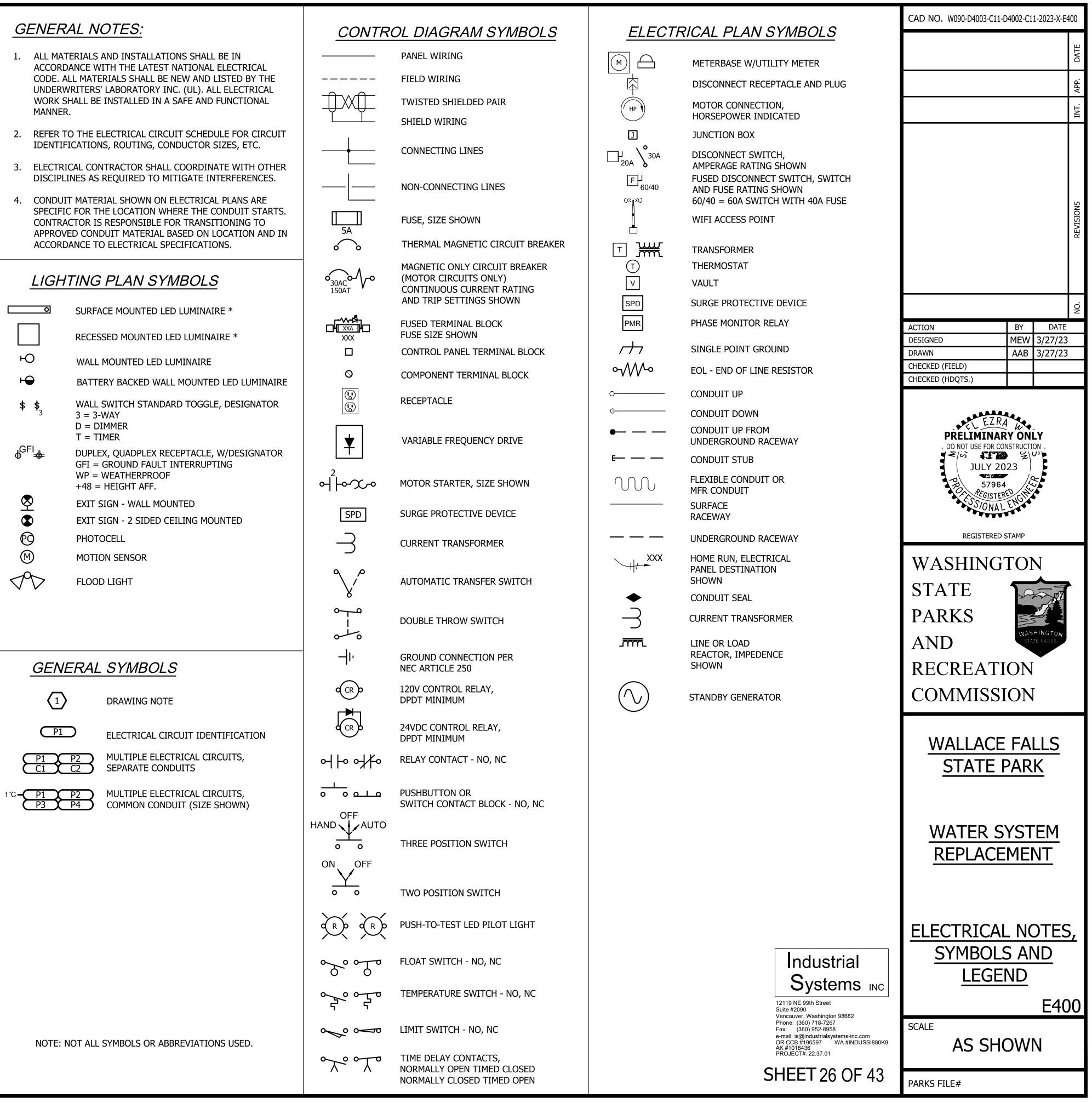


2 M-402 SAMPLE TAP DETAIL

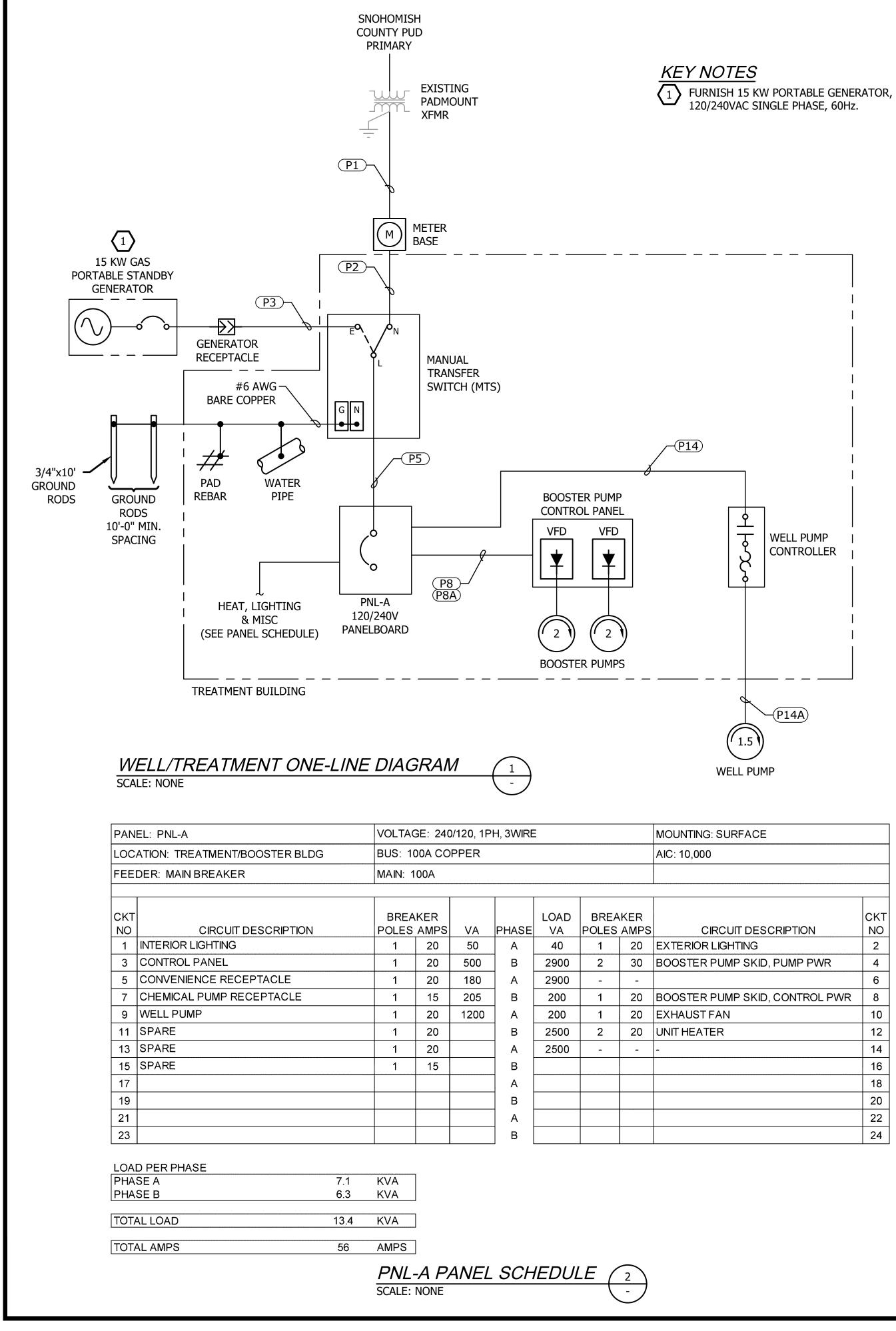


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	DESIGNED HKP 08/31/2	
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	PROJECT ENGINEER	
	WASHINGTON	
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	COMMISSION	
	<u>WALLACE FALLS</u> <u>STATE PARK</u>	
	<u>WATER SYSTEM</u> <u>REPLACEMENT</u>	
	TREATMENT	
	BUILDING	
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	M404	4
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SHEET 25 OF 43	AS SHOWN	
	PARKS FILE#	

а	CIRCUIT BREAKER AUX. CONTACT, CLOSED	KVAR	KILOVOLT AMPERES REACTIVE
•	WHEN BREAKER IS CLOSED AMMETER,	KVARH	KILOVOLT AMPERES REACTIVE HOUR
A AC	AMPERES ALTERNATING CURRENT	KW KWH	KILOWATTS KILOWATT HOURS
A/D	ANALOG TO DIGITAL	LCP	LIGHTING CONTROL PANEL
AF	AMPERE FRAME	LP	LIGHTING PANEL
AIC	AMPERES INTERRUPTING CAPACITY	LPS	LOW PRESSURE SODIUM
ALT A/M	ALTERNATOR AUTO/MANUAL CONTROLLER	LTG LT(S)	LIGHTING LIGHT(S)
ANN	ANNUNCIATOR	(M)	MODIFIED
AS	AMMETER SWITCH	Ňa	MILLIAMPERES
ASD	ADJUSTABLE SPEED DRIVE	MCC	MOTOR CONTROL CENTER
AT ATS	AMPERE TRIP AUTOMATIC TRANSFER SWITCH	MCP MOV	MOTOR CIRCUIT PROTECTOR MOTOR OPERATED VALVE
AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	MOV MS	MOTOR OPERATED VALVE MOTOR STARTER
AWG	AMERICAN WIRE GAGE	MTD	MOUNTED
b	CIRCUIT BREAKER	MTG	MOUNTING
	AUX. CONTACT, CLOSED WHEN BREAKER IS OPEN	MTS (N)	MANUAL TRANSFER SWITCH NEW
BCG	BARE COPPER GROUND	NEC	
C	CONDUIT, CONTACTOR	NEMA	NATIONAL ELECTRICAL MANUFACTUR
CAP	CAPACITOR		ASSOC.
CB	CIRCUIT BREAKER	NEUT	NEUTRAL
CC	CONTROL CABLE, CLOSING COIL	NO	NORMALLY OPEN
CHH CL	COMMUNICATION HANDHOLE CHLORINE	NTS OVHD	NUMBER NOT TO SCALE OVERHEAD
CKT	CIRCUIT	OL	THERMAL OVERLOAD RELAY
CMH	COMMUNICATION MANHOLE	OT	OVER TEMPERATURE
CO	CONDUIT ONLY	PB	PULLBOX, PUSHBUTTON
COMM	COMMUNICATION	PD PE	POSITIVE DISPLACEMENT PHOTOELECTRIC
CON COND	CONTACTOR CONDUCTOR	PEC	PHOTOELECTRIC PHOTOELECTRIC CELL
CONT	CONTINUED, CONTINUATION	PF	POWER FACTOR
CPT	CONTROL POWER TRANSFORMER	рН	MEASURE OF ACIDITY OR ALKALINIT
CP	CONTROL PANEL	PH	PHASE
CR	CONTROL RELAY	PLC PM	PROGRAMMABLE LOGIC CONTROLLER
CS CT	CONTROL SWITCH CURRENT TRANSFORMER	PNL	POWER MONITOR PANEL
CWP	COLD WATER PIPE	PNLBD	PANELBOARD
DC	DIRECT CURRENT	PRI	PRIMARY
DIAG	DIAGRAM	PS	PRESSURE SWITCH
DISC DISTR	DISCONNECT	PSI PWR	POUNDS PER SQUARE INCH
DISTR	DISTRIBUTION DISTRIBUTION PANEL	(RL)	POWER RELOCATE
DPDT		(RLD)	
DPST	•	RCPT	RECEPTACLE
EXST	EXISTING	RCT	REPEAT CYCLE TIMER
EF EHH	EXHAUST FAN ELECTRICAL HANDHOLE	RPM RT	REVOLUTIONS PER MINUTE RESET TIMER
ELEM	ELEMENTARY	SCR	SILICON CONTROLLED RECTIFIER
EMERG	EMERGENCY	SD	SMOKE DETECTOR
EFFL	EFFLUENT	SDBC	SOFT-DRAWN BARE COPPER
EQ EQUIP	EQUAL	SEC SECT	SECONDS, SECONDARY
ETM	EQUIPMENT ELAPSED TIME METER	SF	SECTION SUPPLY FAN
FACP	FIRE ALARM CONTROL PANEL	SHH	SIGNAL HANDHOLE
FIN FL	FINISHED FLOOR	SIG	SIGNAL
FLEX	FLEXIBLE	SN	SOLID NEUTRAL
FLUOR FO	FLUORESCENT	SPEC SPD	SPECIFICATIONS
FO	FIBER OPTIC FREQUENCY	SPD	SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW
FU	FUSE	SS	STAINLESS STEEL, SOLID STATE
FUT	FUTURE	SW	SWITCH
FVNR	FULL VOLTAGE, NON REVERSING	SWBD	SWITCHBOARD
FVR FWD	FULL VOLTAGE, REVERSING	SWGR SYNC	SWITCHGEAR
GA	FORWARD GAUGE	TB	SYNCHRONIZING TERMINAL BOX TERMINAL BOARD
GEN	GENERATOR	TC	TERMINAL BOX, TERMINAL BOARD TELEPHONE CABINET
GFI	GROUND FAULT INTERRUPTER	TEMP	TEMPERATURE
GRS	GALVANIZED RIGID STEEL	TP	TWISTED PAIR UNSHIELDED
H₂O₂ нмт	HYDROGEN PEROXIDE	TSP	TWISTED SHIELDED PAIR
HMI HOA	HUMAN MACHINE INTERFACE HAND-OFF-AUTOMATIC	TVSS UH	TRANSIENT VOLTAGE SURGE SUPPRE
HOR	HAND-OFF-AUTOMATIC HAND-OFF-REMOTE	UH UV	UNIT HEATER ULTRA VIOLET
HORZ	HORIZONTAL	V	VOLTS
HPS	HIGH PRESSURE SODIUM	VA	VOLT-AMPERES
HTR	HEATER	VFD	
HV HZ	HIGH VOLTAGE	VAR VEDT	VOLT AMPERES REACTIVE
IND LT	HERTZ (CYCLES PER SECOND) INDICATING LIGHT	VERT VH	VERTICAL VAR-HOUR
INCAND	INDICATING LIGHT INCANDESCENT	VII VS	VAR-HOUR VOLTMETER SWITCH
I/O	INPUT/OUTPUT	W	WIRE, WATTS
JB	JUNCTION BOX	WHM	WATTHOUR METER
KA	KILOAMPERES	WHDM	WATTHOUR DEMAND METER
KCMIL	THOUSANDS OF CIRCULAR MILS	WP WTDT	WEATHERPROOF
KV	KILOVOLTS	WTRT	WATERTIGHT



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07/18/2024
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ING: SURFACE	
000	
	КТ
	10
ORLIGHTING	2
ER PUMP SKID, PUMP PWR	4
	6
ER PUMP SKID, CONTROL PWR	8
ST FAN 1	10
ATER 1	12
1	14
1	16
1	18
2	20
2	22
2	24

CONDUCTOR SIZES ARE BASED ON COPPER CONDUCTORS. MULTIPLE CIRCUITS RUN IN COMMON CONDUITS ARE SHOWN ON PLANS AND SUPERSEDE THE BASIC CONDUIT SIZE SHOWN.

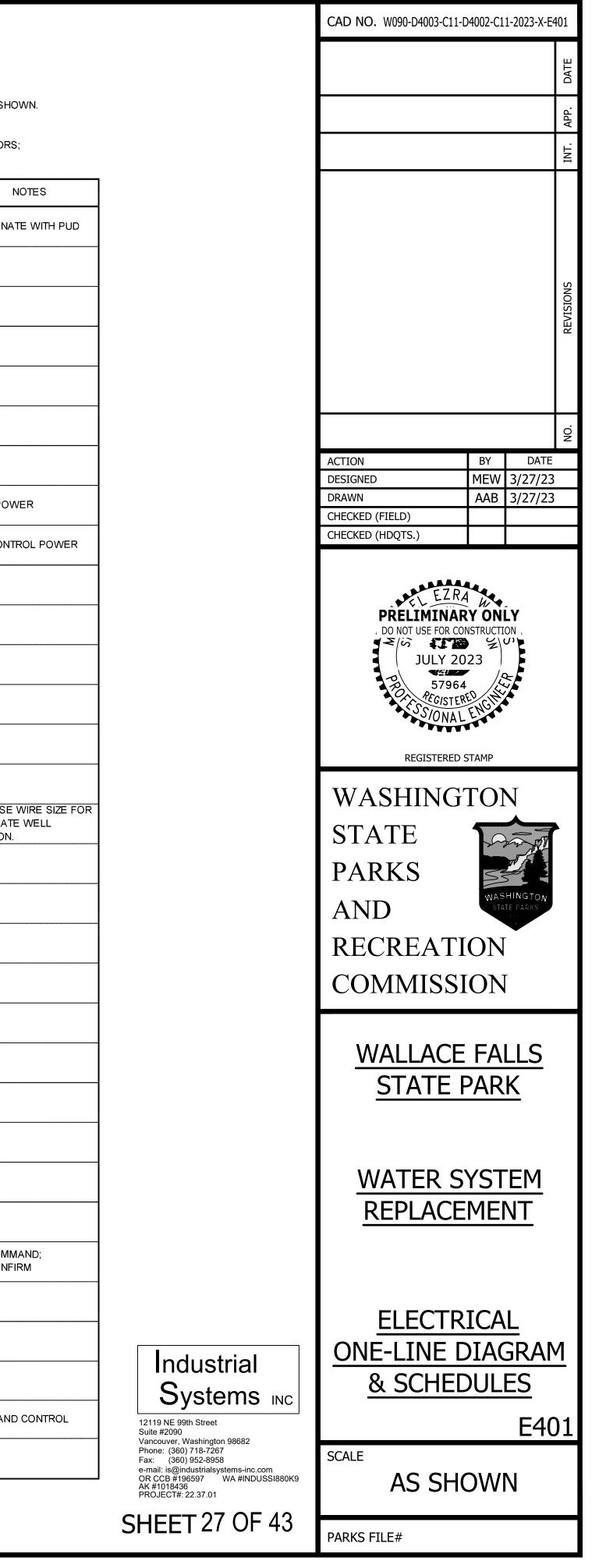
RACEWAY SIZES ARE IN INCHES WITH QUANTITIES IN EXCESS OF (1) SHOWN IN ADJACENT PARENTHESIS. P = POWER CONDUCTORS; G = GROUND CONDUCTORS; N = FOR NEUTRAL CONDUCTORS; C = CONTROL CONDUCTORS; SP = SPARE CONDUCTORS; TSP = TWISTED SHIELDED PAIR.

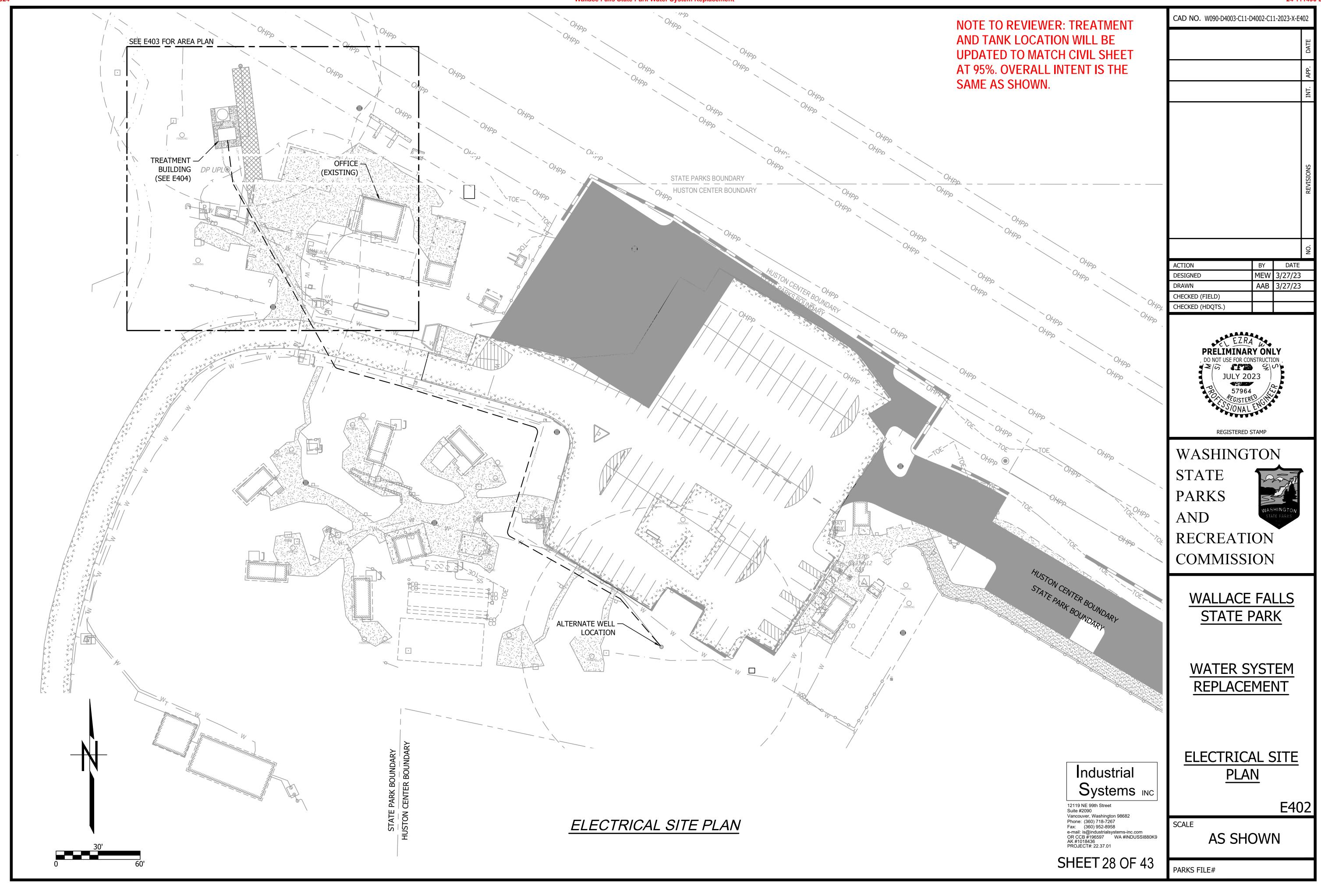
CIRCUIT NUMBER	FROM	то	CONDUCTORS	RACEWAY	
P1	PUD TRANSFORMER (EXISTING)	METER BASE	(2) 3 AWG, P (1) 3 AWG, N (1) 6 AWG, G	2"	COORDIN
P2	METER BASE	MANUAL TRANSFER SWITCH (MTS)	(2) 3 AWG, P (1) 3 AWG, N (1) 6 AWG, G	1.25"	
P3	MANUAL TRANSFER SWITCH (MTS)	GENERATOR RECEPTACLE	(2) 3 AWG, P (1) 3 AWG, N (1) 6 AWG, G	1"	
P4	MANUAL TRANSFER SWITCH (MTS)	PNL-A	(2) 3 AWG, P (1) 3 AWG, N (1) 6 AWG, G	1"	
P5	PNL-A	INTERIOR BUILDING LIGHTING	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P6	PNL-A	EXTERIOR BUILDING LIGHTING	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
Ρ7	PNL-A	CONTROL PANEL	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P8	PNL-A	BOOSTER PUMP SKID	(2) 10 AWG, P (1) 10 AWG, G	3/4"	PUMP PO
P8A	PNL-A	BOOSTER PUMP SKID	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	SKID CON
P9	PNL-A	BUILDING CONVENIENCE RECEPTACLE	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P10	PNL-A	CHEMICAL PUMP RECEPTACLE	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P11	PNL-A	FLOW TRANSMITTER	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P12	PNL-A	BUILDING EXHAUST FAN	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P13	PNL-A	BUILDING UNIT HEATER	(2) 10 AWG, P (1) 10 AWG, G	3/4"	
P14	PNL-A	WELL PUMP CONTROL BOX	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	3/4"	
P14A	WELL PUMP CONTROL BOX	WELL PUMP	(1) 12 AWG, P (1) 12 AWG, N (1) 12 AWG, G	1"	INCREASE ALTERNA [®] LOCATION
C1	CONTROL PANEL	WELL LEVEL TRANSDUCER JUNCTION BOX	(1) 18 AWG, TSP		
C2	CONTROL PANEL	WELL INTRUSION SWITCH	(2) 14 AWG, C (1) 14 AWG, G		
C3	CONTROL PANEL	WELL FLOW TRANSMITTER	(1) 18 AWG, TSP (2) 14 AWG, C (1) 14 AWG, G	3/4"	
C4	CONTROL PANEL	SYSTEM PRESSURE TRANSMITTER	(1) 18 AWG, TSP	3/4"	
C5	CONTROL PANEL	TANK LSLL LEVEL FLOAT	(2) 14 AWG, C (1) 14 AWG, G	3/4"	
C6	CONTROL PANEL	TANK LSL LEVEL FLOAT	(2) 14 AWG, C (1) 14 AWG, G	3/4"	
C7	CONTROL PANEL	TANK LSH LEVEL FLOAT	(2) 14 AWG, C (1) 14 AWG, G	3/4"	
C8	CONTROL PANEL	TANK LSHH LEVEL FLOAT	(2) 14 AWG, C (1) 14 AWG, G	3/4"	
C9	CONTROL PANEL	BUILDING INTRUSION SWITCH	(2) 14 AWG, C (1) 14 AWG, G	3/4"	
C10	CONTROL PANEL	BOOSTER SKID PANEL	(6) 14 AWG, C (1) 18 AWG, TSP (4) 14 AWG, SP	1"	
C11	CONTROL PANEL	WELL PUMP CONTROL BOX	(4) 14 AWG, C (1) 14 AWG, G	3/4"	RUN COM RUN CON
C12	CONTROL PANEL	AUTODIALER (IN OFFICE BLDG)	(9) 14 AWG, C (5) 14 AWG, SP (1) 14 AWG, G	2"	
C13	CONTROL PANEL	CHEMICAL METERING PUMP	(2) 14 AWG, C (1) 18 AWG, TSP (1) 14 AWG, G	1"	
C14	CONTROL PANEL	BUILDING FLOOD SWITCH	(2) 14 AWG, C (1) 14 AWG, G	3/4"	
C15	CONTROL PANEL	SMOKE DETECTOR	(4) 14 AWG, C (1) 14 AWG, G	3/4"	24VDC AN
N1	CONTROL PANEL	OFFICE BUILDING	CAT 6	1"	

CIRCUIT SCHEDULE SCALE: NONE

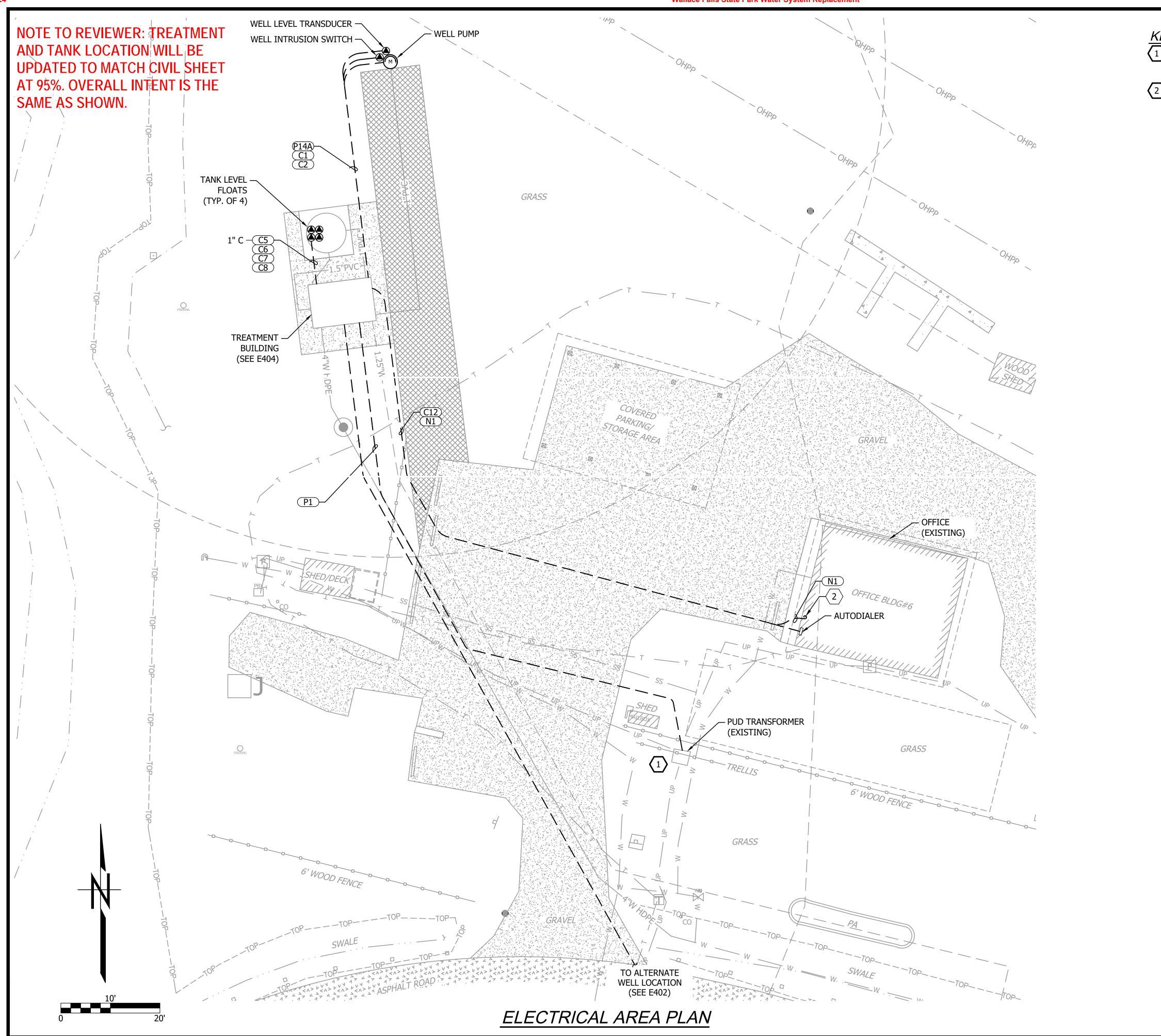
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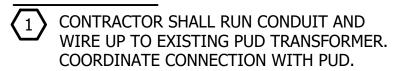




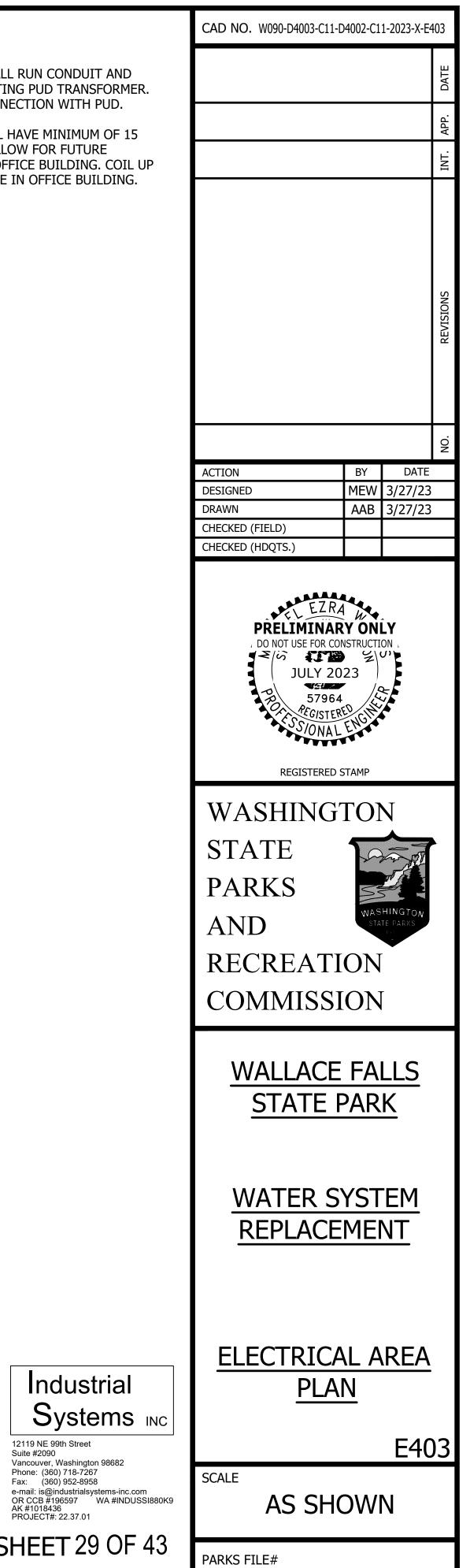
Wallace Falls State Park Water System Replacement

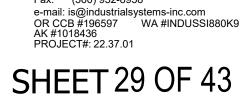


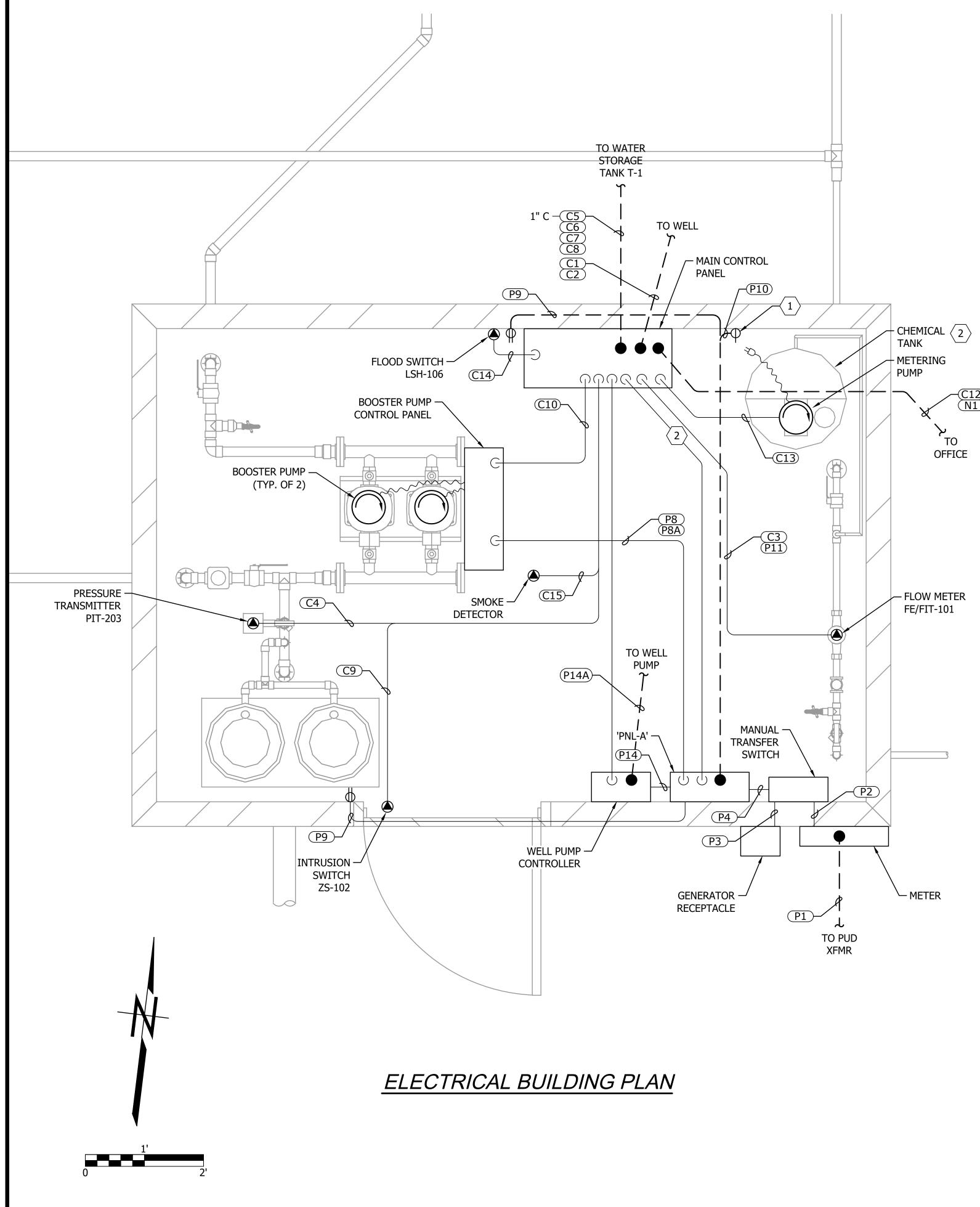




2 CAT6 CABLE SHALL HAVE MINIMUM OF 15 EXTRA FEET TO ALLOW FOR FUTURE CONNECTION IN OFFICE BUILDING. COIL UP ADDITIONAL CABLE IN OFFICE BUILDING.





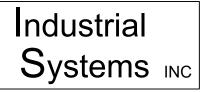




 $\left< 1 \right>$ DEDICATED SIMPLEX RECEPTACLES FOR CHEMICAL EQUIPMENT.

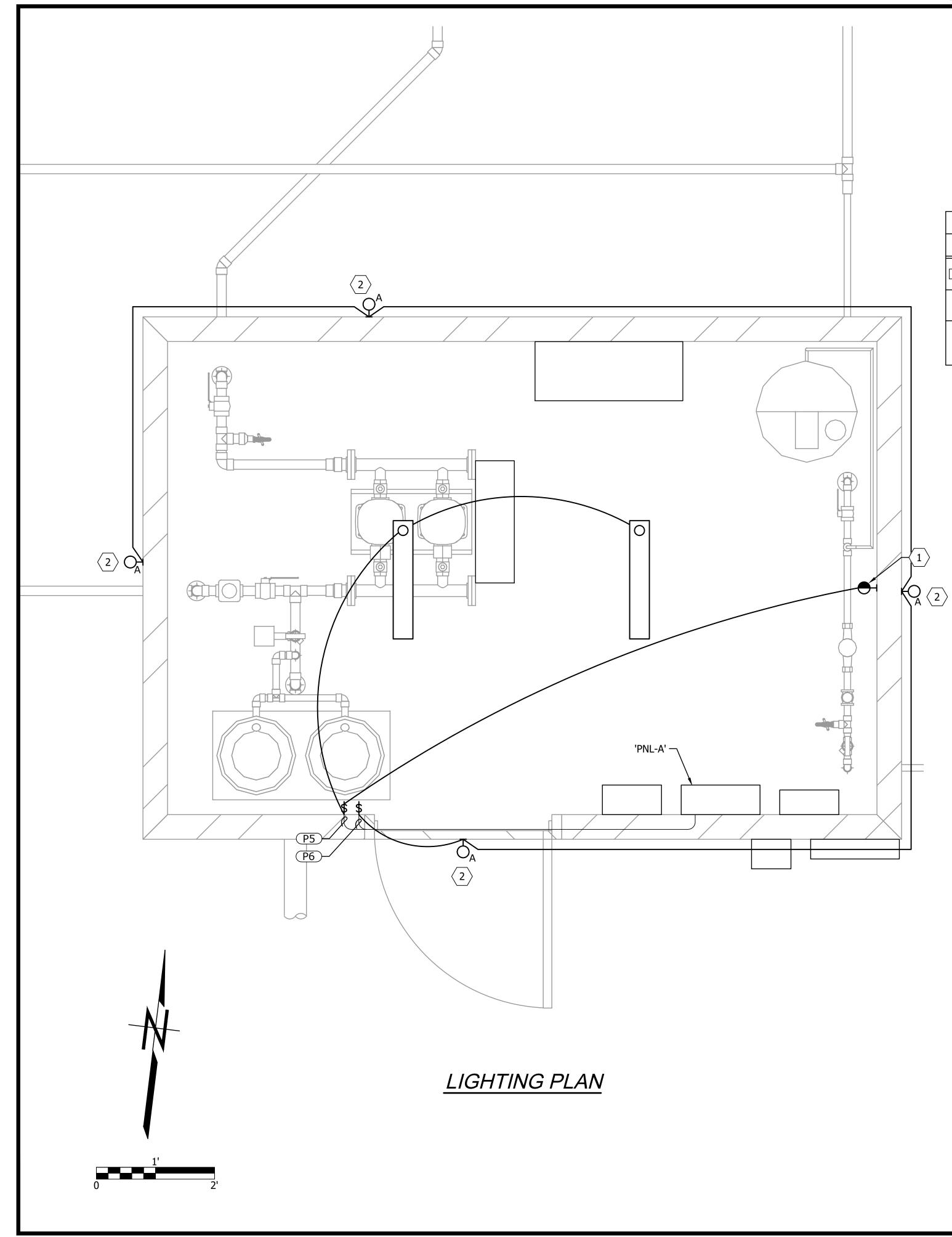
 $\langle 2 \rangle$ ALL CONDUITS WITHIN 5 FT OF METERING PUMP AND CHEMICAL TANK SHALL BE PGRS.

CAD NO. W090-D4003-C11-D4002-C11-2023-X-E404 BY DATE ACTION MEW 3/27/23 DESIGNED AAB 3/27/23 DRAWN CHECKED (FIELD) CHECKED (HDQTS.) EZRA HA PRELIMINARY ONLY JULY 2023 Val Z 57964 PEGISTERED S/ONAL EN REGISTERED STAMP WASHINGTON STATE An PARKS AND RECREATION COMMISSION WALLACE FALLS STATE PARK WATER SYSTEM REPLACEMENT TREATMENT BUILDING ELECTRICAL PLAN E404 SCALE AS SHOWN SHEET 30 OF 43

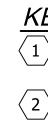


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PARKS FILE#



		LUMINAIRE SCH	IEDULE		
DE	VICE/LOCATION/USE	DESCRIPTION	VOLTS	WATTS	
0	BUILDING INTERIOR LIGHT	4064 LUMEN LED LUMINAIRE FEM SERIES 48"	120V	23.8	LITTI EQU
\mathbf{H}	WALL MOUNT LUMINAIRE LED TYPE INTERIOR/EXTERIOR	640 LUMEN LED LUMINAIRE FOR EMERGENCY LIGHTING	120V	3.15	LIT
Q _A	WALL MOUNT LUMINAIRE LED TYPE INTERIOR/EXTERIOR	WDGE2 LED WITH P1 - PERFORMANCE PACKAGE, 4000K, 80CRI, VISUAL COMFORT WIDE OPTIC, PHOTOCELL, MOTION SENSOR	120V	10	LIT W/



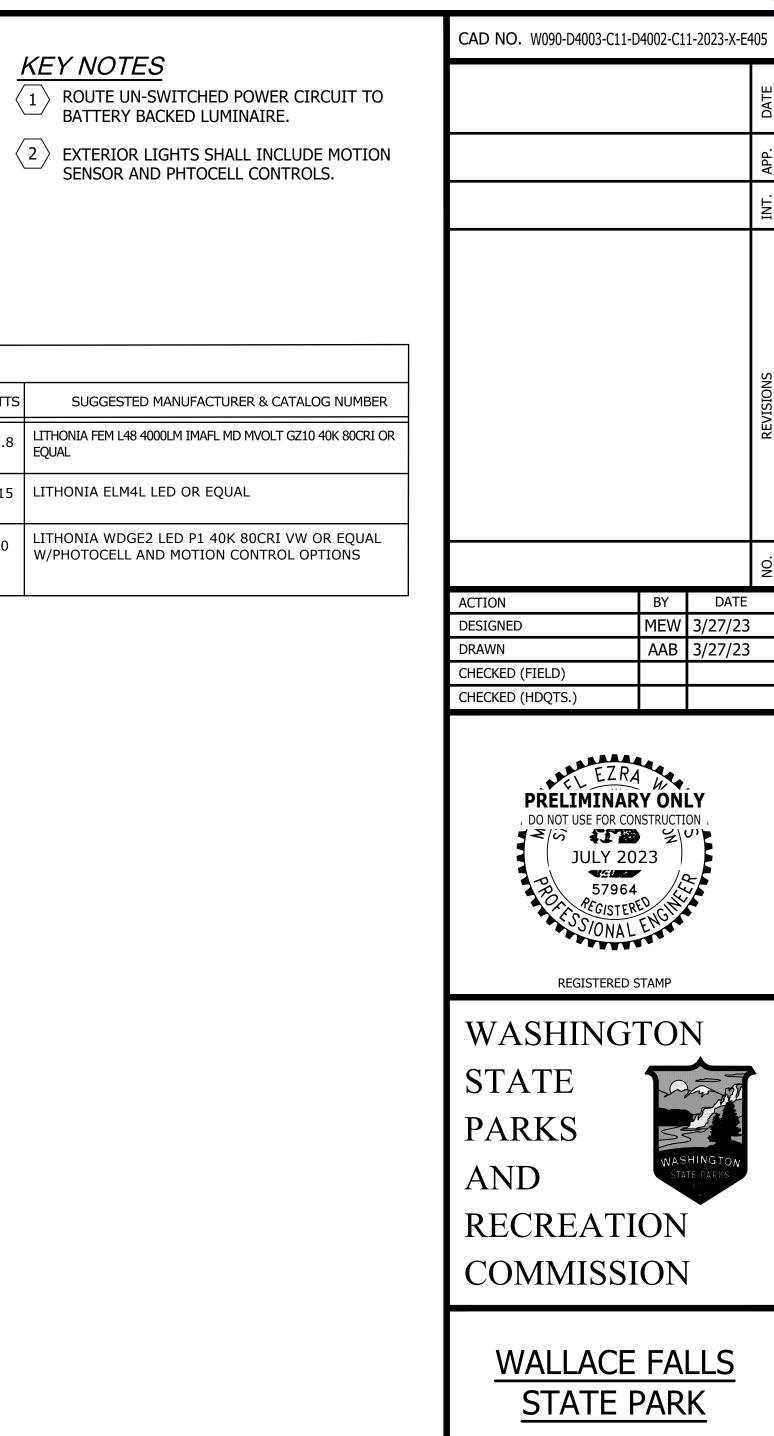
BY DATE

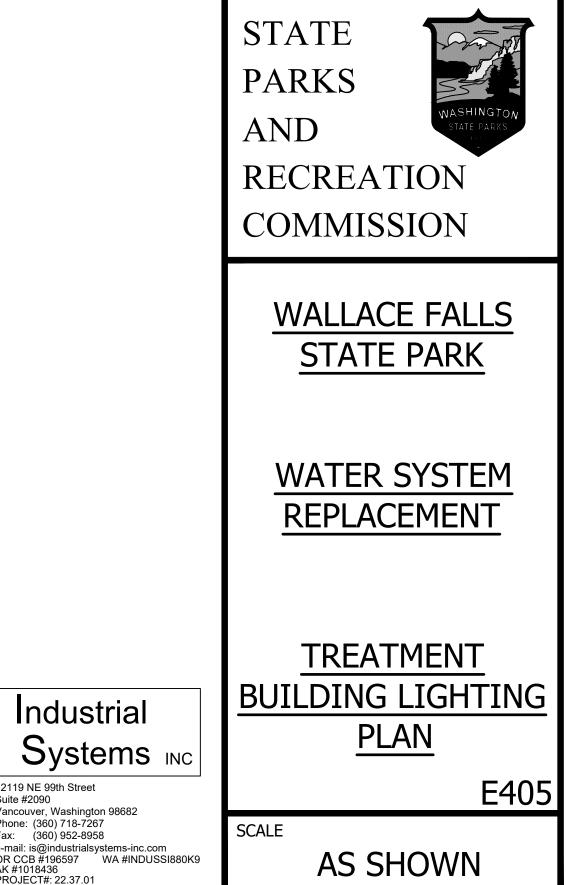
MEW 3/27/23

AAB 3/27/23

57964

CISTERED



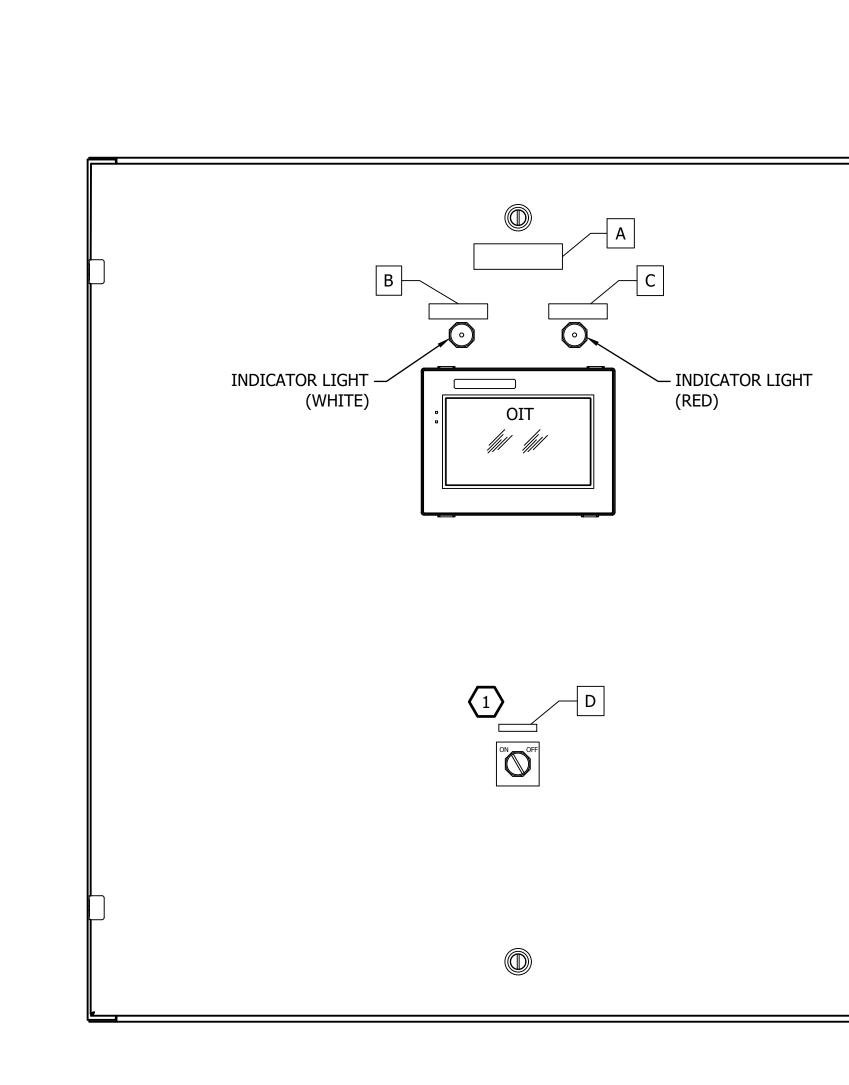


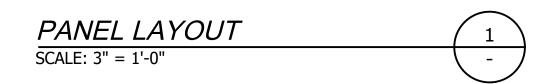


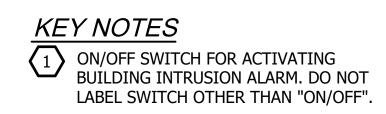
Industrial

PARKS FILE#



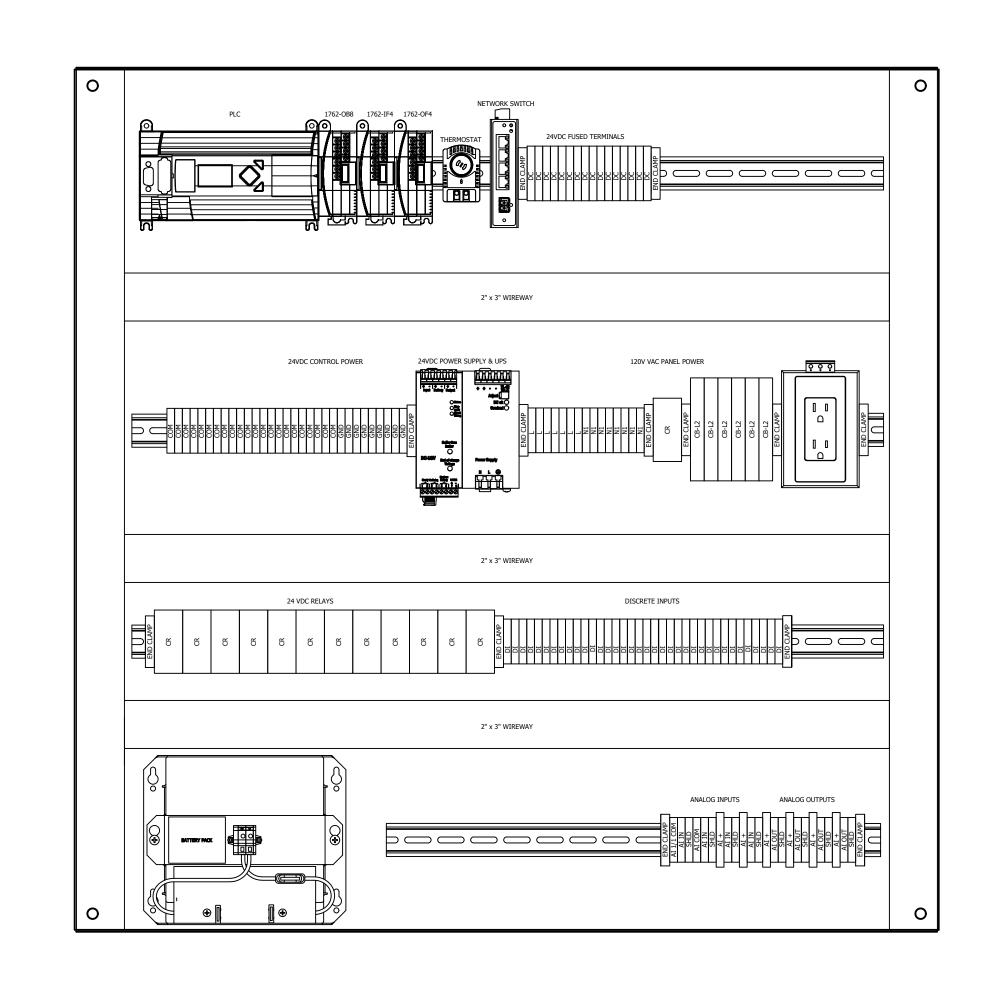






ITEM	NAMEPLATE SCHEDULE
Α	MAIN CONTROL PANEL
В	AC POWER OK
С	GENERAL ALARM
D	ON/OFF

SCE





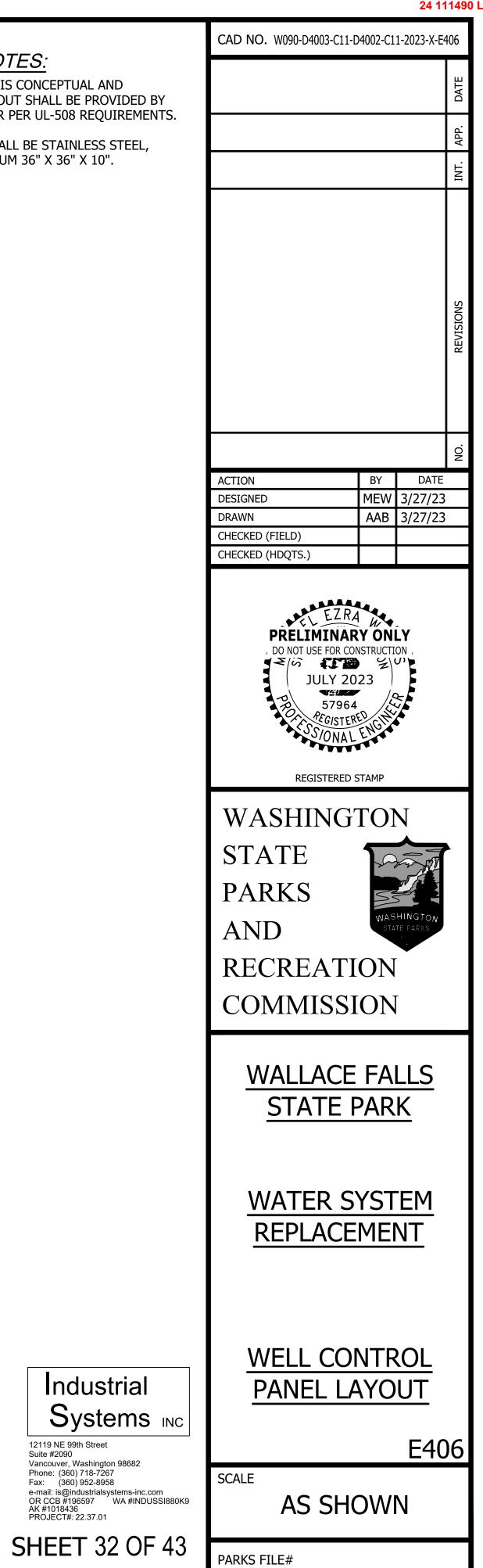


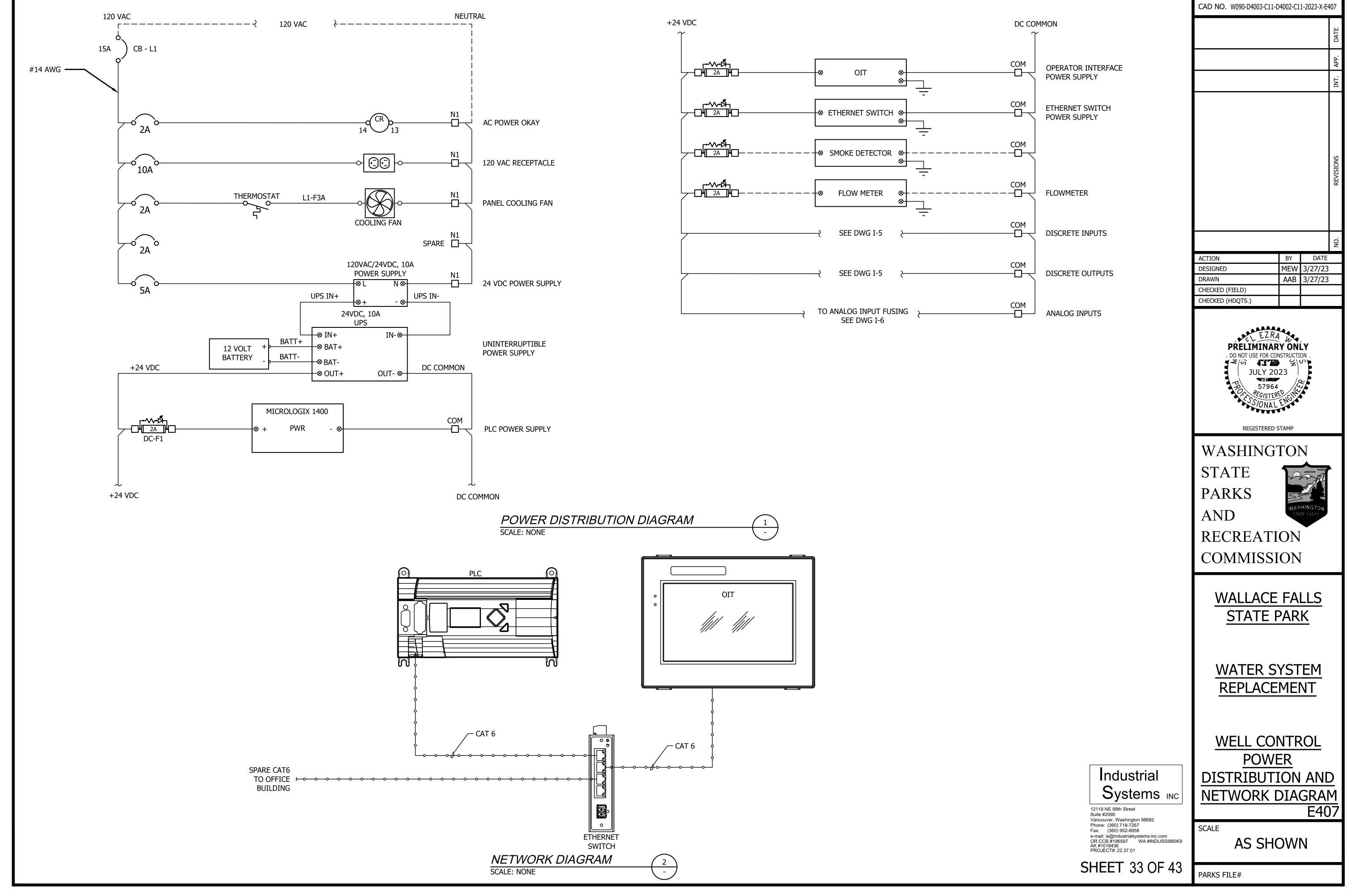
1. PANEL LAYOUT IS CONCEPTUAL AND FINALIZED LAYOUT SHALL BE PROVIDED BY MANUFACTURER PER UL-508 REQUIREMENTS.

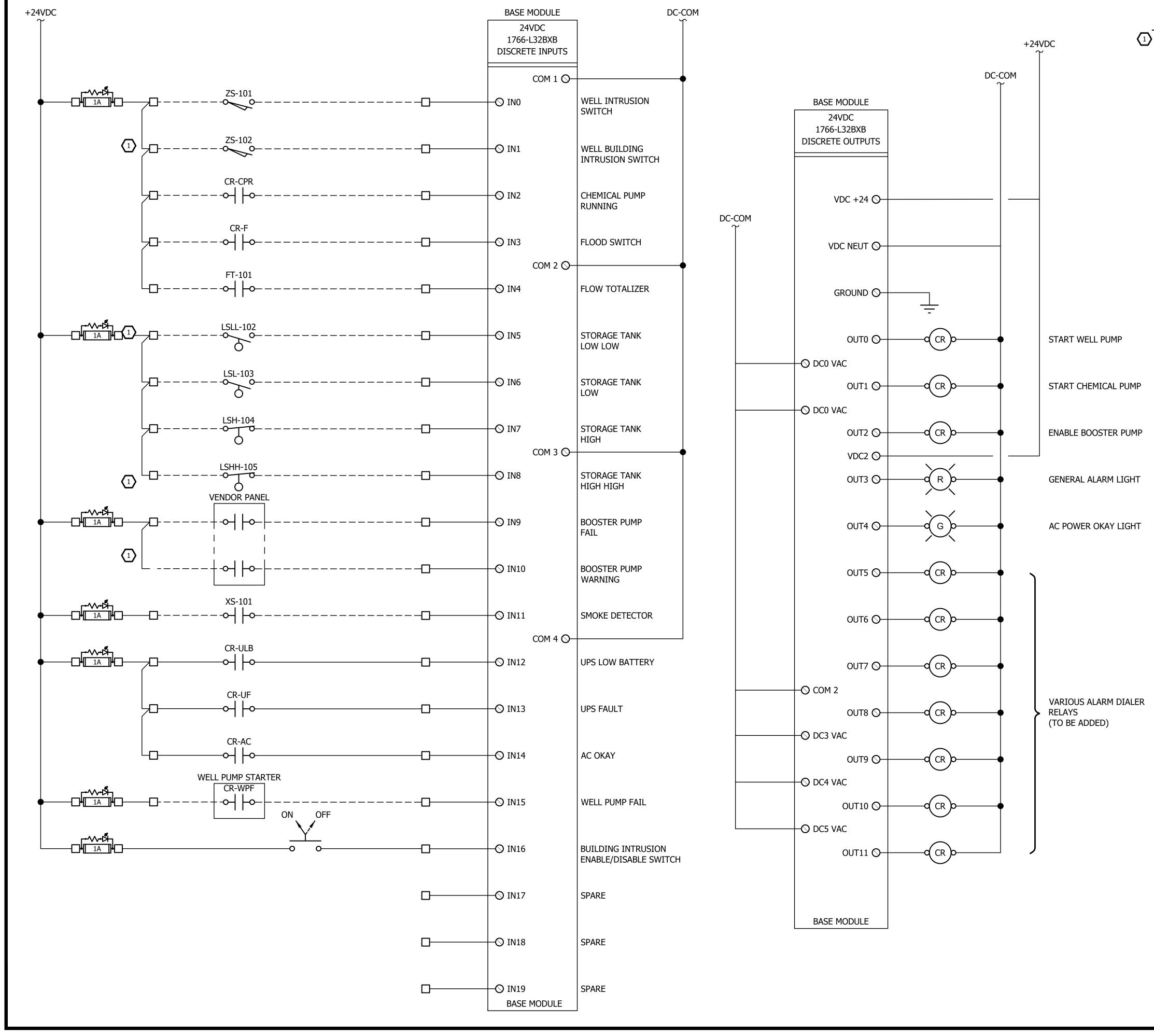
Industrial

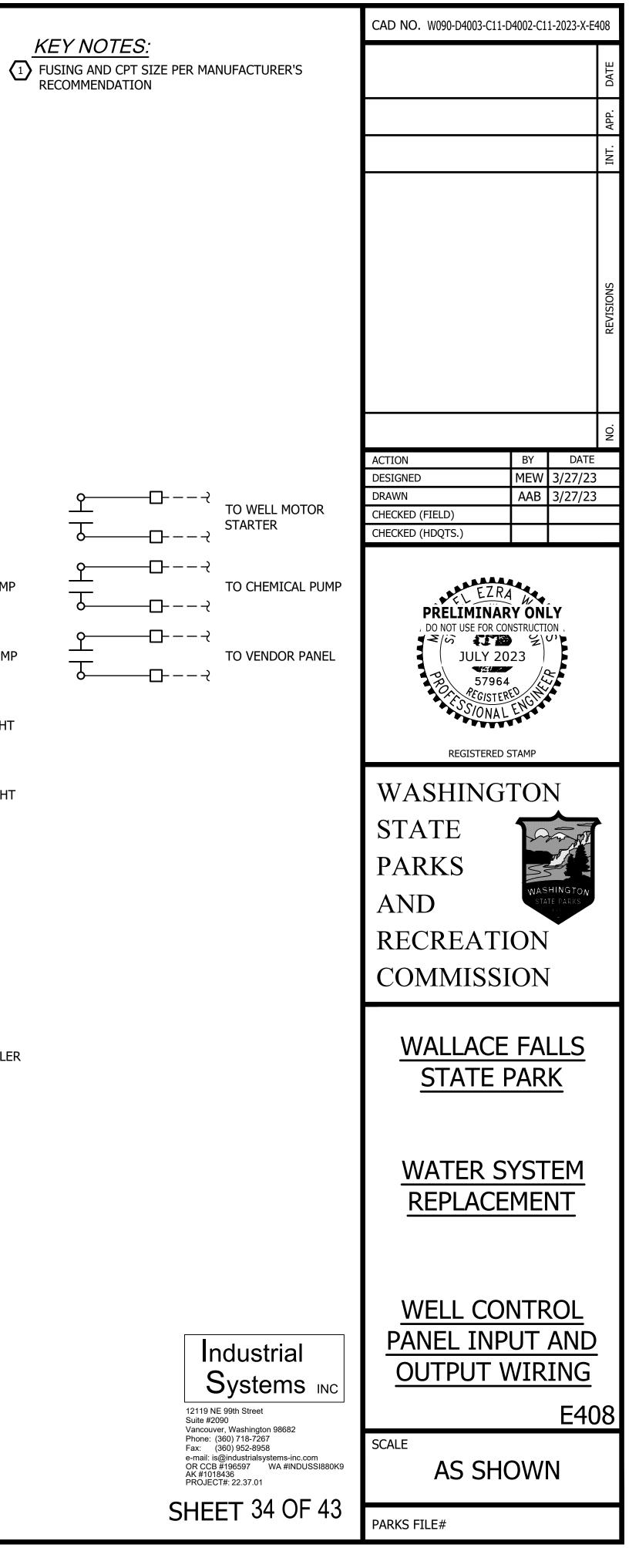
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2. ENCLOSURE SHALL BE STAINLESS STEEL, NEMA 4, MINIMUM 36" X 36" X 10".

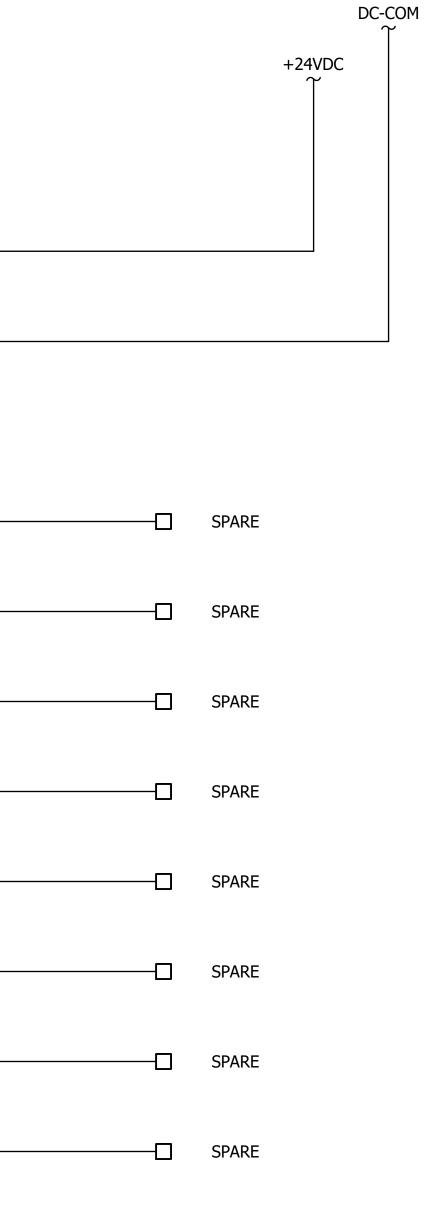


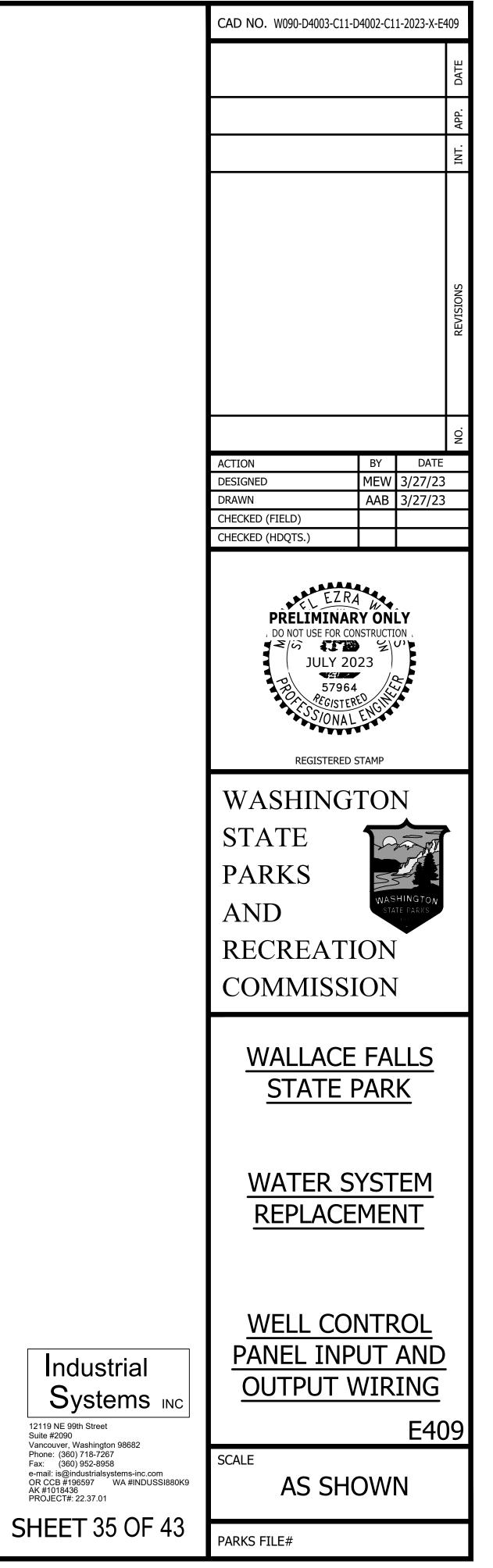






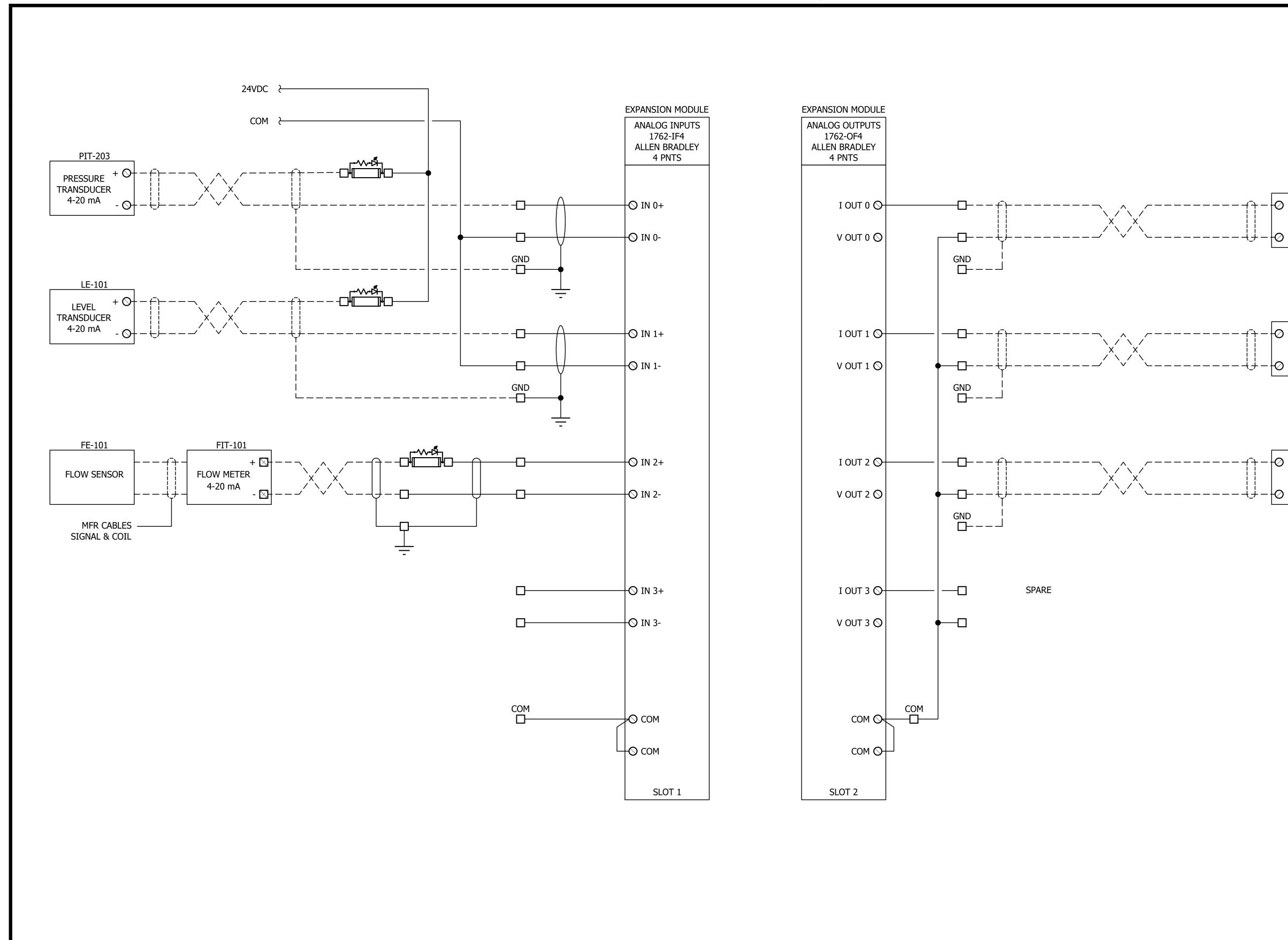
EXPANSION MODULE 24VDC 1762-OB8 DISCRETE OUTPUTS
VDC +24 🛇
DC COM O
ουτο 🛇
OUT1 O
OUT2 🛇
OUT3 🛇
OUT4 🛇
OUT5 🛇 –
OUT6 O
OUT7 O
SLOT 1

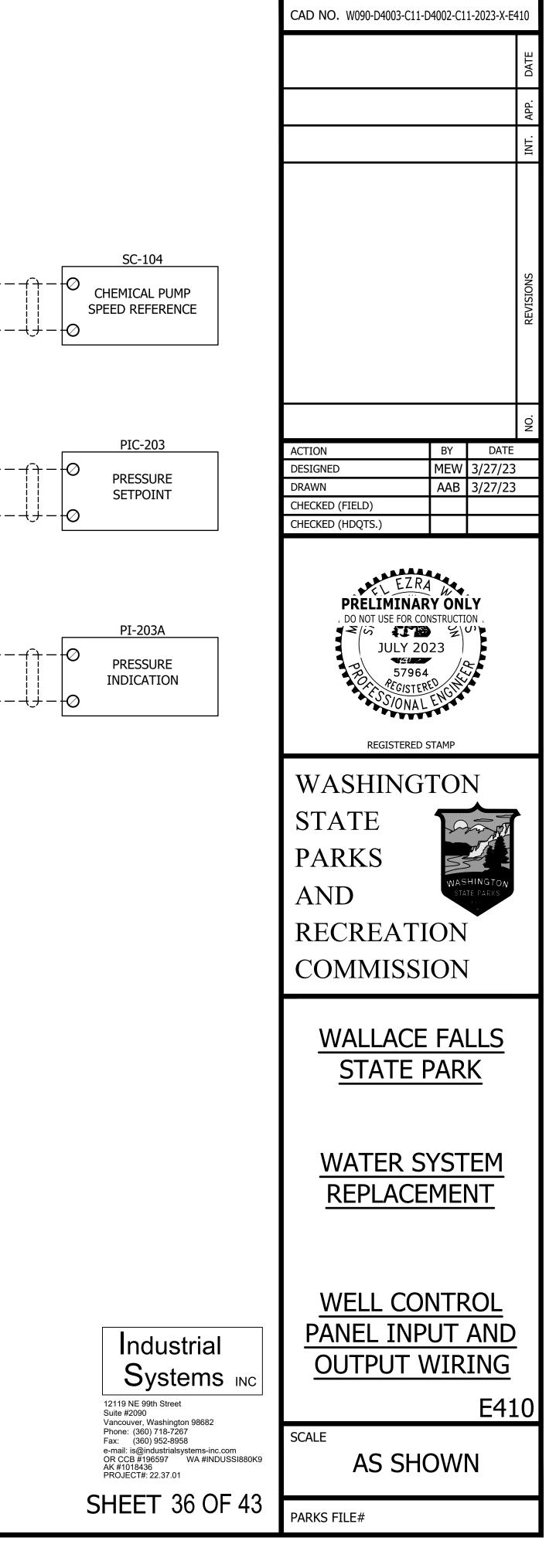


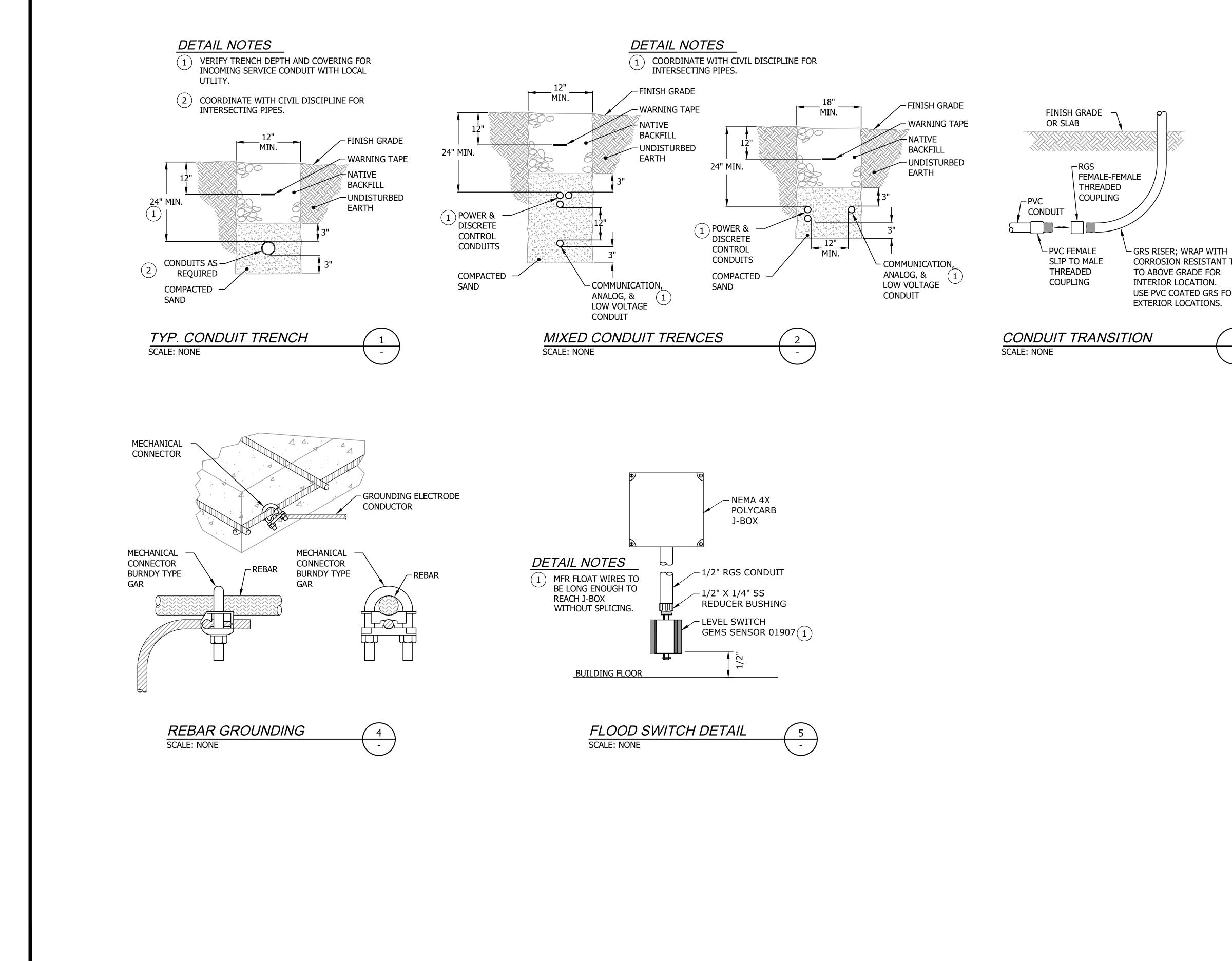


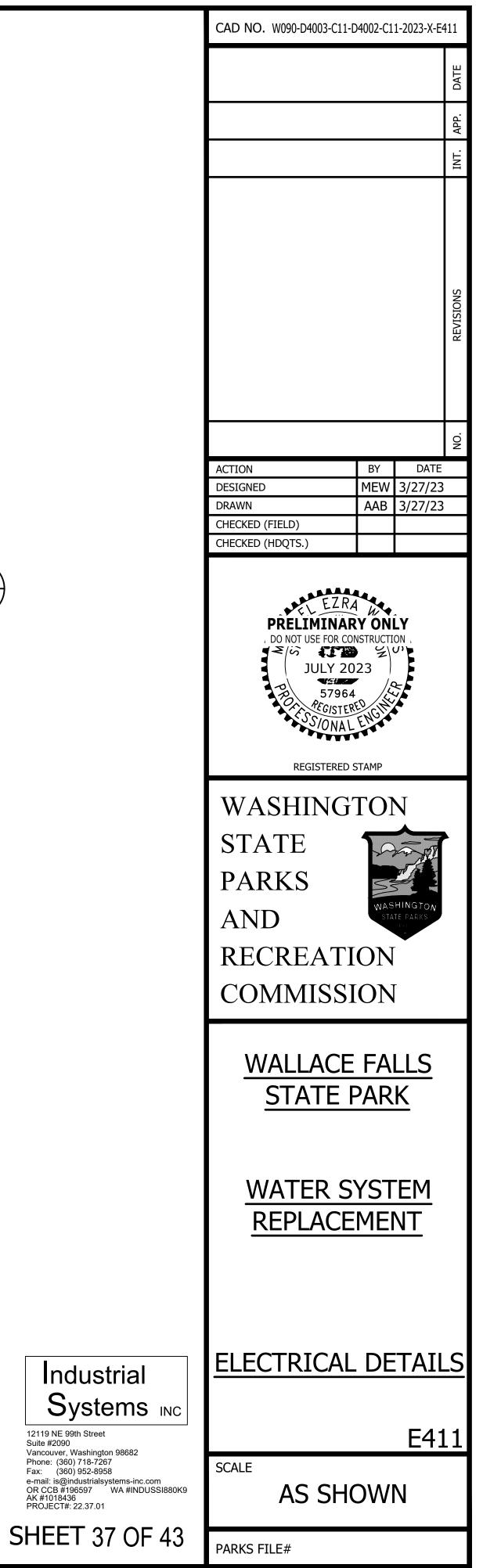


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CORROSION RESISTANT TAPE USE PVC COATED GRS FOR

3 -

GENERAL INSTRUMENT SYMBOLS

LOCATION/ACCESSIBILITY	DICODETE	SHARED DISPLAY AND		DISCRETE		FIRST LETTER		SUCCEEI	DING LETTERS	
	DISCRETE INSTRUMENTS	CONTROL (DCS)	PLC	HARDWARE INTERLOCK		MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
FIELD MOUNTED				$\widehat{}$					TONCTION	
1. FIELD OR LOCALLY MOUNTED.						ANALYSIS		ALARM USER'S CHOICE		
2. ACCESSIBLE TO AN OPERATOR AT DEVICE.					B	BURNER, FLAME, COMBUSTION			USER'S CHOICE CONTROL,	USER'S CHOICE
PRIMARY LOCATION NORMALLY						USER'S CHOICE (TYPICALLY CONDUCTIVITY - ELECTRICAL)			COMMAND	
ACCESSIBLE TO AN OPERATOR					D	USER'S CHOICE (TYPICALLY DENSITY OR SPECIFIC GRAVITY)	DIFFERENTIAL			DIVERT
1. CENTRAL OR MAIN CONTROL ROOM.					E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
2. FRONT OF MAIN PANEL OR					F	FLOW RATE	RATIO			
CONSOLE MOUNTED. 3. VISIBLE ON VIDEO DISPLAY.					G	USER'S CHOICE OR GAUGING	(FRACTION)	GLASS,		
4. ACCESSIBLE TO AN OPERATOR AT	г				G	(DIMENSIONAL)		VIEWING DEVICE		
DEVICE OR CONSOLE.					Н	HAND				HIGH
PRIMARY LOCATION NORMALLY					I	CURRENT (ELECTRICAL)		INDICATE		
. CENTRAL OR MAIN CONTROL					J	POWER	SCAN			
ROOM.	()	$\left(\right)$	()		K	TIME, TIME SCHEDULE	TIME RATE		CONTROL STATION	
2. REAR OF PANEL OR CABINET MOUNTED.					L	LEVEL		LIGHT		LOW
8. NOT VISIBLE ON VIDEO DISPLAY.					М	USER'S CHOICE (TYPICALLY MOISTURE OR HUMIDITY)	MOMENTARY			MIDDLE, INTERMÉDIATE
AN OPERATOR AT DEVICE OR						USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
CONSOLE.						USER'S CHOICE		ORIFICE, RESTRICTION		OPEN
AUXILIARY LOCATION NORMALLY					P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
ACCESSIBLE TO AN OPERATOR . SECONDARY OR LOCAL CONTROL					Q	QUANTITY OR HEAT DUTY	INTEGRATE, TOTALIZE			
ROOM.							TOTALIZE	DECODD		
. FIELD OR LOCAL CONTROL PANEL . FRONT OF SECONDARY OR LOCAL					R	RADIATION SPEED, FREQUENCY	SAFETY	RECORD	SWITCH	
PANEL MOUNTED.					<u></u> 5 Т	TEMPERATURE	SAFEIT		TRANSMIT	THROUGH
VISIBLE ON VIDEO DISPLAY.						MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	
5. ACCESSIBLE TO AN OPERATOR AT DEVICE OR CONSOLE.					V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
AUXILIARY LOCATION NORMALLY INACCESSIBLE TO AN OPERATOR					W	WEIGHT, FORCE, TORQUE		WELL		
1. SECONDARY OR LOCAL CONTROL					Х	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
ROOM. 2. FIELD OR LOCAL CONTROL PANEL					Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPÚTE, CONVERT	
 REAR OF SECONDARY OR LOCAL PANEL OR CABINET MOUNTED. NOT VISIBLE ON VIDEO DISPLAY. 					Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL	
5. NOT NORMALLY ACCESSIBLE TO AN OPERATOR AT DEVICE OR CONSOLE.									FINAL CONTROL ELEMENT	
INSTRUMENT LINE S		ΤΥΡΙΟ		 Γριμμεντ τα	GN	UMBERS & DESIGNATION	T	NPUT / OUTPUT SIGN		
STRUMENT SUPPLY OR				- INSTRUMENT TY			<u> </u>			
ONNECTION TO PROCESS		_		SEE 'INSTRUMEN	NT IDE	ENTIFICATION LETTERS'	\	D VARIABLE OR OUTPUT FUNC	TION FROM 'INSTRU	JMENT
IEUMATIC SIGNAL		-	/			1ENT IDENTIFICATION		CATION LETTERS' TABLE ——	7	
ECTRIC SIGNAL (ANALOG)		_		SEE 'HAND SWIT					/	<u>TYP</u>
ECTRIC SIGNAL (DISCRETE)	\\\-	_ (H	ноа	- INSTRUMENT ID	ENTIF	ICATION	`▲	Ť		
DRAULIC SIGNAL	· · · ·			(DIGITS DENOTI				ANALOG INPUT (AI)	ANALOG OUTPUT	(AO)
APILLARY TUBE	<u> </u>	_				DISTINGUISHES BETWEEN	$\overline{\mathbf{d}}$	$\overline{\cdot}$		
ECTROMAGNETIC, SONIC, PTICAL, OR NUCLEAR SIGNAL		-		MULTIPLE SIMIL		TRAINS ARE USED AND	Ą.	DISCRETE INPUT (DI)	DISCRETE OUTPL	
				REPRESENTS TH					DIJCKLIL OUIPU	
		_					\sim	\sim		BL
ECHANICAL LINK		-								
FLOW STREAM IDE	NTIFIERS		<u>OFF</u>	-PAGE CON	NEC	TORS AND TIE-IN SYMBOL	=	PIPING LINE SYM	IBOLS	
	PI = PRIMARY INF PLE = PLANT EFFL		Α.			SERVICE DESCRIPTION	PRIMA	RY (AG & UG)		
	PS = PRIMARY SL			CONNECTOR	RNUM	BER	SECON	IDARY / UTILITY (AG & UG)		

B. <u>PRIMARY/SECONDARY LINES</u>

CONNECTOR NUMBER -

TIE-IN NUMBER

- XX P&ID No

T

—∖xxx∕

UTILITY CONNECTOR

D. <u>TIE-IN SYMBOL</u>

C.

BD = BASIN DRAINCS = COMBINED SLUDGE CAS = CAUSTIC SODADR = DRAINDS = DIGESTER SOLIDS FBW = FILTER BACKWASHFE = FINAL EFFLUENT GR = GRITICE = INTERMEDIATE CLARIFIER EFFLUENT LPA = LOW PRESSURE AIR ML = MIXED LIQUOR NPW = NON POTABLE WATER PE = PRIMARY EFFLUENT

PLE = PLANT EFFLUENTPS = PRIMARY SLUDGE RAS = RETURN ACTIVATED SLUDGE RS = RAW SEWAGE SSL = SECONDARY SLUDGE SCM = SCUMSSCM = SECONDARY SCUM SCRN = SCREENINGS SE = SECONDARY EFFLUENT TE = TERTIARY EFFLUENT TWAS = THICKENED WASTE ACTIVATED SLUDGE UW = UTILITY WATERWAS = WASTE ACTIVATED SLUDGE

INSTRUMENT IDENTIFICATION LETTERS

ABBREVIATIONS	1
	_

<u>AB</u>	BREVIATIONS		
		MTL	MATERIAL
AG	ABOVE GROUND	MAX	MAXIMUM
ATM	ATMOSPHERE	MCC	MOTOR CONTROL
BYP	BYPASS	nee	CENTER
CC	CHEMICAL CLEANOUT	МСР	MAIN CONTROL PANEL
CL	CENTERLINE	MIN	MINIMUM
CO	CLEANOUT	MOV	MOTOR OPERATED
CONN			VALVE
CVLS		MW	MANWAY
СТР	LIMIT SWITCH	NC	NORMALLY CLOSED
CTR DCS	CENTER DISTRIBUTED	NNF	NORMALLY NO FLOW
DCS	CONTROL SYSTEM	NO	NORMALLY OPEN
DES	DESIGN	NOZ	NOZZLE
DLS	DIAMETER	0/C	OPEN/CLOSE
DIA DP		0/0	ON/OFF
DP D/P		OIT	OPERATOR INTERFACE
DRN	DRAIN	011	TERMINAL
DT	DESIGN TEMPERATURE	OP	OUTPUT
DWG	DRAWING	OVHD	
(E)	EXISTING	PLC	PROGRAMMABLE LOGIC
EL	ELEVATION		CONTROLLER
ESD		PRESS	PRESSURE
	FACE OF FLANGE	PV	PROCESS VARIABLE
(F)	FURNISHED	(R)	RELOCATED
FC	FAIL CLOSED	ŘEQD	
FI		RIO	REMOTE I/O PANEL
FL	FAIL LOCKED	RTD	RESISTANCE
. –	(LAST POSITION)		TEMPERATURE DETECTOR
FLG	FLANGE	SC	SAMPLE CONNECTION
FO	FAIL OPEN	SCADA	SUPERVISORY CONTROL
FP	FULL PORT		AND DATA ACQUISITION
FV	FULL VACUUM	SCH	SCHEDULE
GO	GEAR OPERATED	SD	SHUTDOWN
GR	GRADE	SG	SPECIFIC GRAVITY
HC	HOSE CONNECTION	SIS	SAFETY INSTRUMENTED
HDR	HEADER		SYSTEM
HH	HAND HOLE	SO	STEAM OUT
HOA	HAND/OFF/AUTOMATIC	SP	SET POINT
HP	HIGH PRESSURE	SS	STAINLESS STEEL S/S or
HPT	HIGH POINT		START/STOP
IAS	INSTRUMENT AIR SUPPLY	STD	STANDARD
LC	LOCKED CLOSED	T/C	THERMOCOUPLE
LCP	LOCAL CONTROL PANEL	TDH	TOTAL DIFFERENTIAL
LO	LOCKED OPEN		HEAD
LP	LOW PRESSURE	TEMP	TEMPERATURE
LPT	LOW POINT		THREADED
		TSO	TIGHT SHUT-OFF
		TYP	TYPICAL
		UG	
		VNT	
		VAC	VACUUM
		VB	VORTEX BREAKER
		VFD	VARIABLE FREQUENCY DRIVE
		W/	WITH
		W/O	WITHOUT

INSTRUMENT TYPE		
SEE 'INSTRUMENT IDENTIFICATION LETTERS'	MEASURED VARIABLE OR OUTPUT FUNCTION FROM 'INSTRUMENT	
ADDITIONAL INSTRUMENT IDENTIFICATION SEE 'HAND SWITCH ABBREVIATIONS'	IDENTIFICATION LETTERS' TABLE	TYPICAL EQUIPMENT TAG
INSTRUMENT IDENTIFICATION (DIGITS DENOTE ASSOCIATED AREA) WHEN USED, LETTER DISTINGUISHES BETWEEN MULTIPLE SIMILAR DEVICES JSED WHEN MULTIPLE TRAINS ARE USED AND REPRESENTS THE TRAIN NUMBER	ANALOG INPUT (AI) Image: Analog output (AO) Image: Analog output (AI) Image: Analog output (AI) Ima	AER = AERATOR BIN = BIN BL = BLOWER CEL = CELL CLA = CLARIFIER CLS = CLASSIFIER CND = CONDENSA CON = CONVEYOR CMP = COMPRESS DIF = DIFFUSER DIG = DIGESTER
PAGE CONNECTORS AND TIE-IN SYMBOL	PIPING LINE SYMBOLS	DIS = DISINFECT FED = FEEDER
OFF-PLOT CONNECTOR	PRIMARY (AG & UG)	
CONNECTOR NUMBER	SECONDARY / UTILITY (AG & UG)	L EQUIPMENT AREA
PRIMARY/SECONDARY LINES AND INSTRUMENT SIGNAL CONNECTOR	FUTURE OR EXISTING ON NEW P&IDs	EQUIPMENT TYPE (SEE CHART ABOVE)
SERVICE DESCRIPTION CONNECTOR NUMBER	JACKETED OR DOUBLE CONTAINMENT	

NUMBERS & DESIGNATION

	FLT = FILTER HEX = HEAT EXCHANGER MIX = MIXER
	PMP = PUMP
R	PRS = PRESS
R	SCN = SCREEN
SATE TRAP	SDG = SLIDE GATE
R	SL = SLUICE GATE
SOR	SMP = SUMP
	THK = THICKENER
	TNK = TANK
FION UNIT	WEL = WET WELL

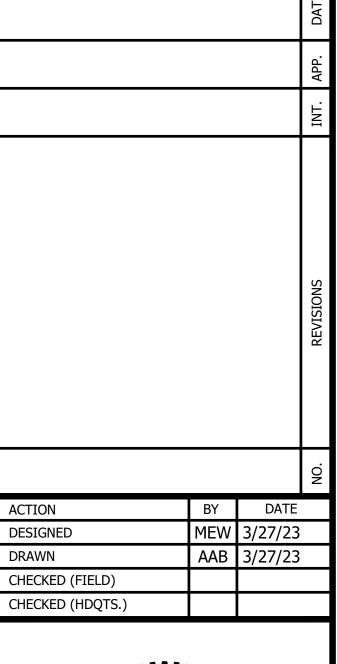
Industrial

12119 NE 99th Street Suite #2090 Vancouver, Washington 98682 Phone: (360) 718-7267 Fax: (360) 952-8958

Systems INC

e-mail: is@industrialsystems-inc.com OR CCB #196597 WA #INDUSSI880K9 AK #1018436 PROJECT#: 22.37.01

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CAD NO. W090-D4003-C11-D4002-C11-2023-X-I400







RECREATION COMMISSION

AND

WALLACE FALLS STATE PARK

WATER SYSTEM REPLACEMENT

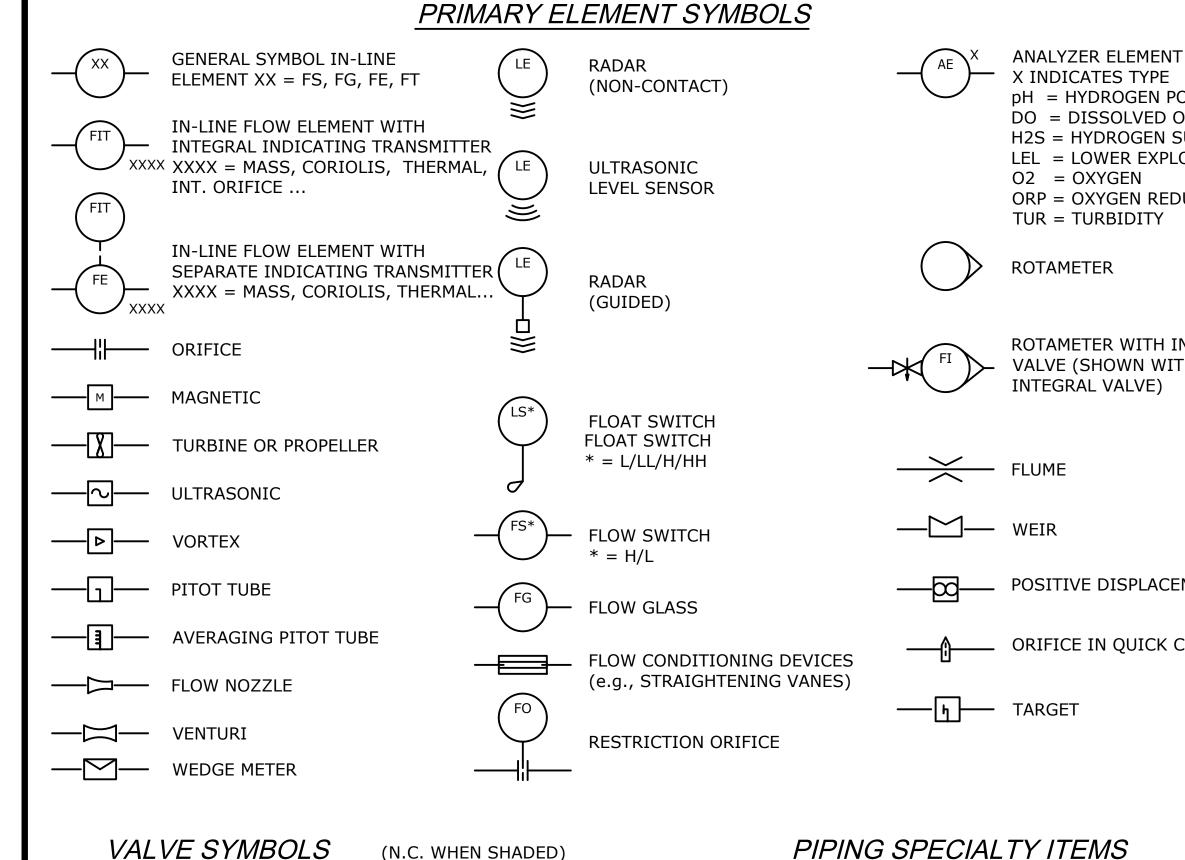
P&ID LEGEND-1

I400

AS SHOWN

PARKS FILE#

SCALE



VALVE SYMBOLS

\bowtie	GATE VALVE	\bowtie
	CHECK VALVE	\square
$\overline{\mathbf{A}}$	STOP CHECK VALVE	\mathbb{A}
	GLOBE VALVE	\mathbb{A}
🔍	BUTTERFLY VALVE	\bowtie
\bowtie	NEEDLE VALVE	Å
۲	BALL VALVE	Ŧ
\mathbf{A}	BALANCING VALVE	¥
ſ	AIR RELEASE VALVE	

PLUG VALVE	
DIAPHRAGM VALVE	
3-WAY VALVE	
4-WAY VALVE	
PINCH VALVE	
ANGLE VALVE	
KNIFE VALVE	
SLUICE OR SLIDE GATE	Ξ

PIPING FITTINGS

D

FLANGE _ WELDED CONNECTION CONCENTRIC REDUCER \supset ECCENTRIC REDUCER \square SPACER BLANK

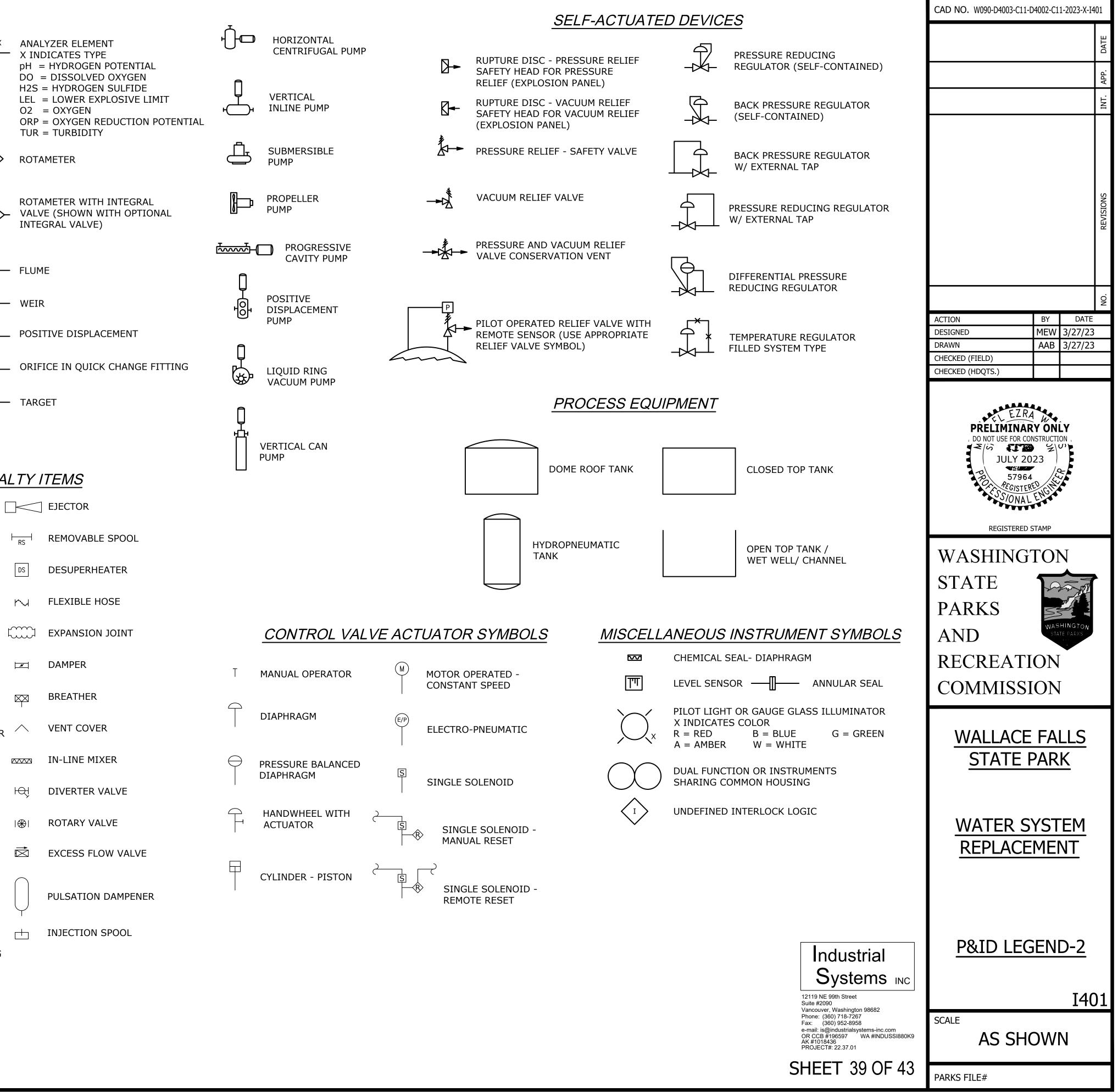
OPEN FIGURE 8 BLIND
CLOSED FIGURE 8 BLIND
PLUG
BLIND FLANGE
HOSE CONNECTION
CAP

PIPING SPECIALTY ITEMS

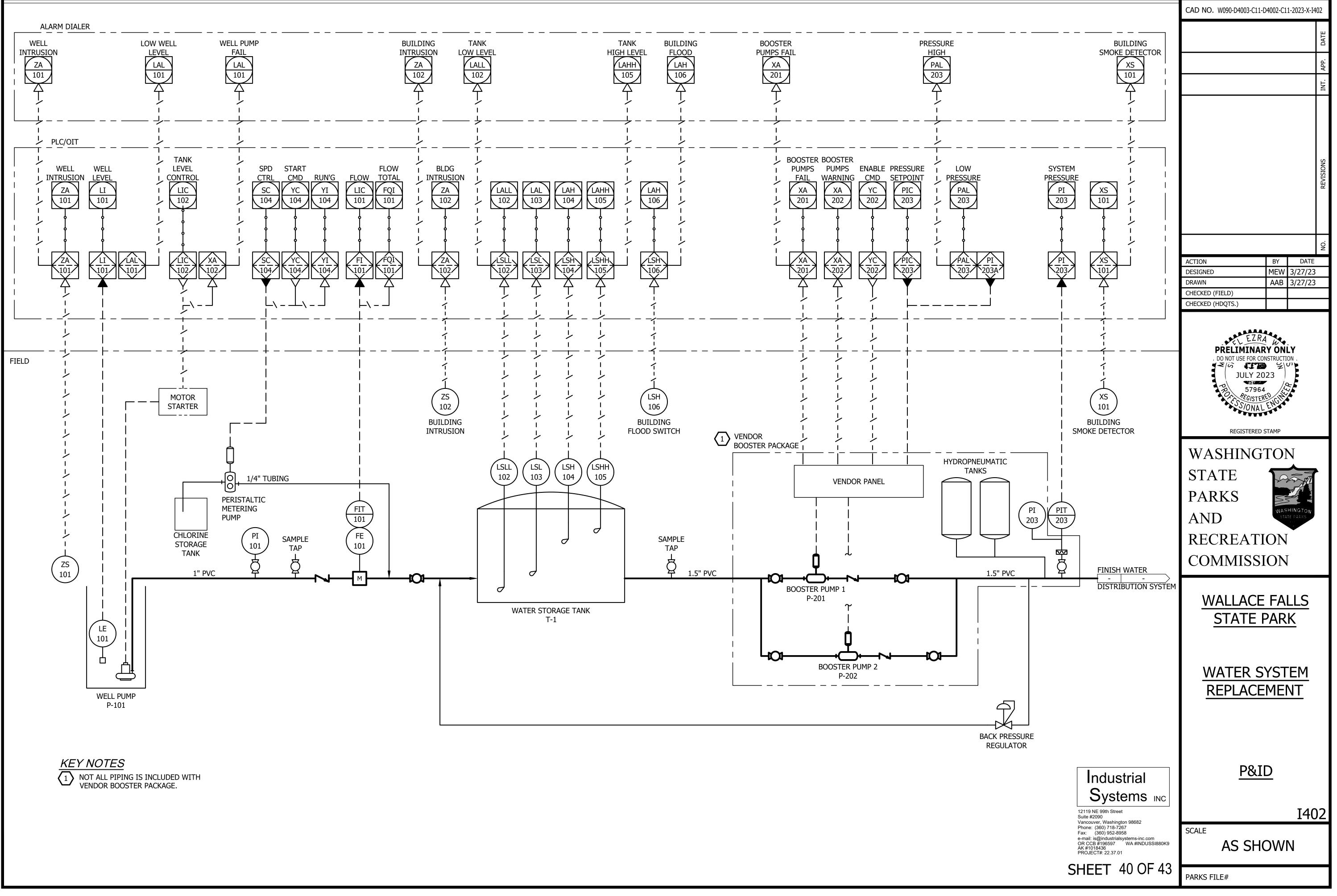
EJECTOR

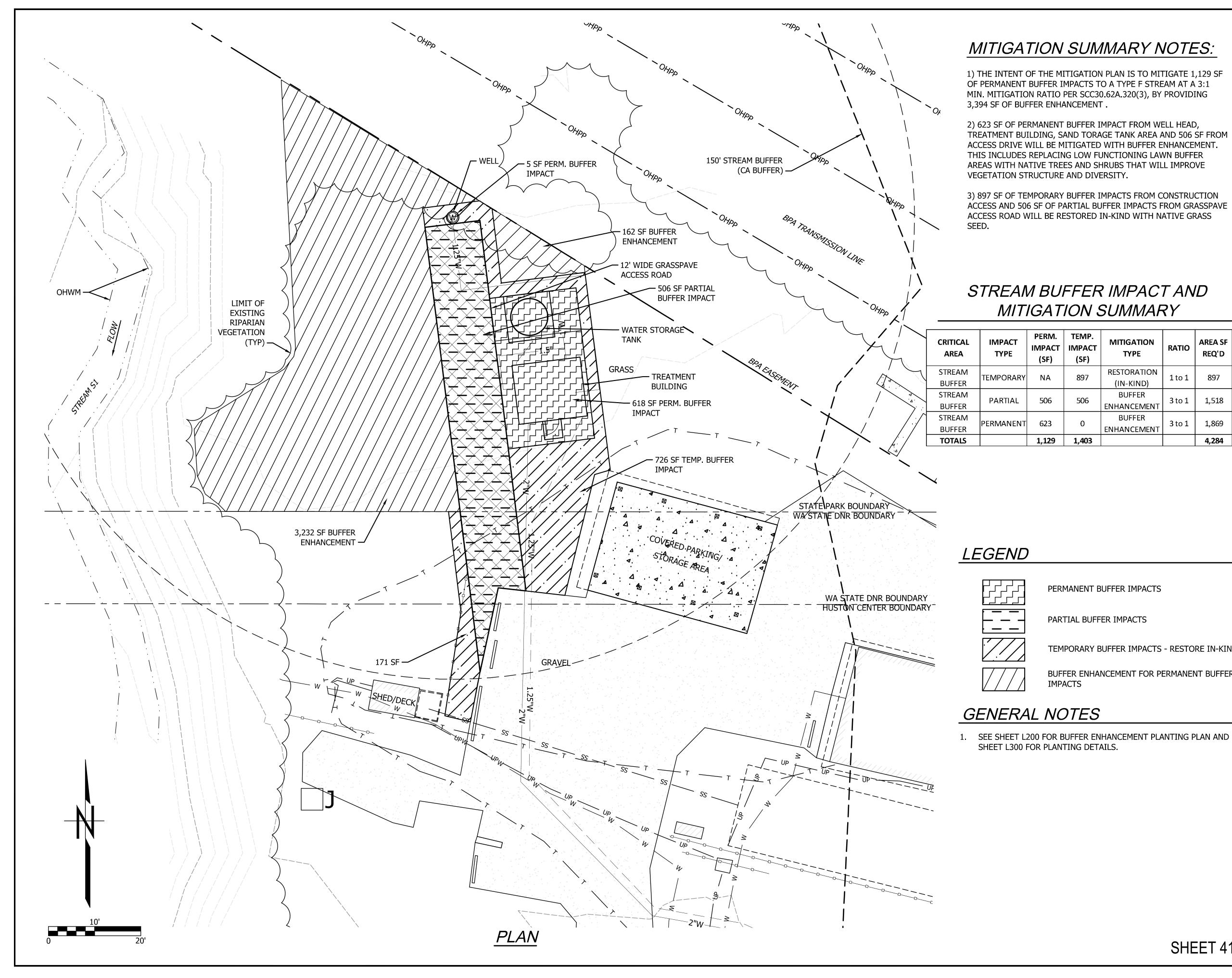
DAMPER

ΗÌ	Y-TYPE STRAINER	
0	CONE STRAINER	⊢ RS
오	T-TYPE STRAINER	DS
1-8-1	DUPLEX STRAINER	\sim
н Л н	BASKET STRAINER	
Ø	TEMPORARY STRAINER	<i>N</i>
	FILTER	\bowtie
[D]	DETONATION ARRESTOR	\wedge
[F]	FLAME ARRESTOR	
Τ	STEAM TRAP	ЮĴ
\bigtriangledown	EXHAUST HEAD	⊛
	IN-LINE SILENCER	
S	VENT SILENCER	\bigcup_{i}
	MECHANICAL COUPLING	



INJECTION SPOOL





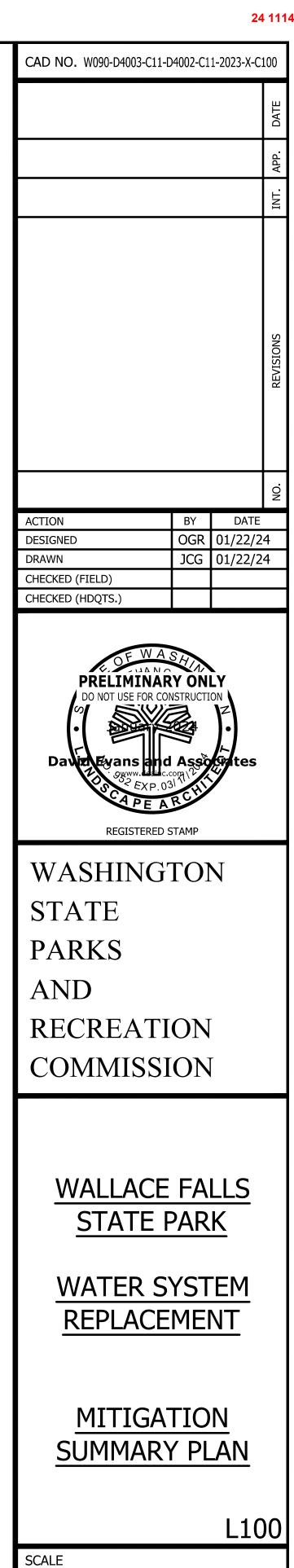


MITIGATION TYPE	RATIO	AREA SF REQ'D	AREA SF PROVIDED	
RESTORATION	1 to 1	897	897	
(IN-KIND)	1101	0.57	097	
BUFFER	3 to 1	1,518		
ENHANCEMENT	5101	1,510	3,394	
BUFFER	3 to 1 1.869		3,394	
ENHANCEMENT	5101	1,869		
		4,284	4,291	

PERMANENT BUFFER IMPACTS

TEMPORARY BUFFER IMPACTS - RESTORE IN-KIND

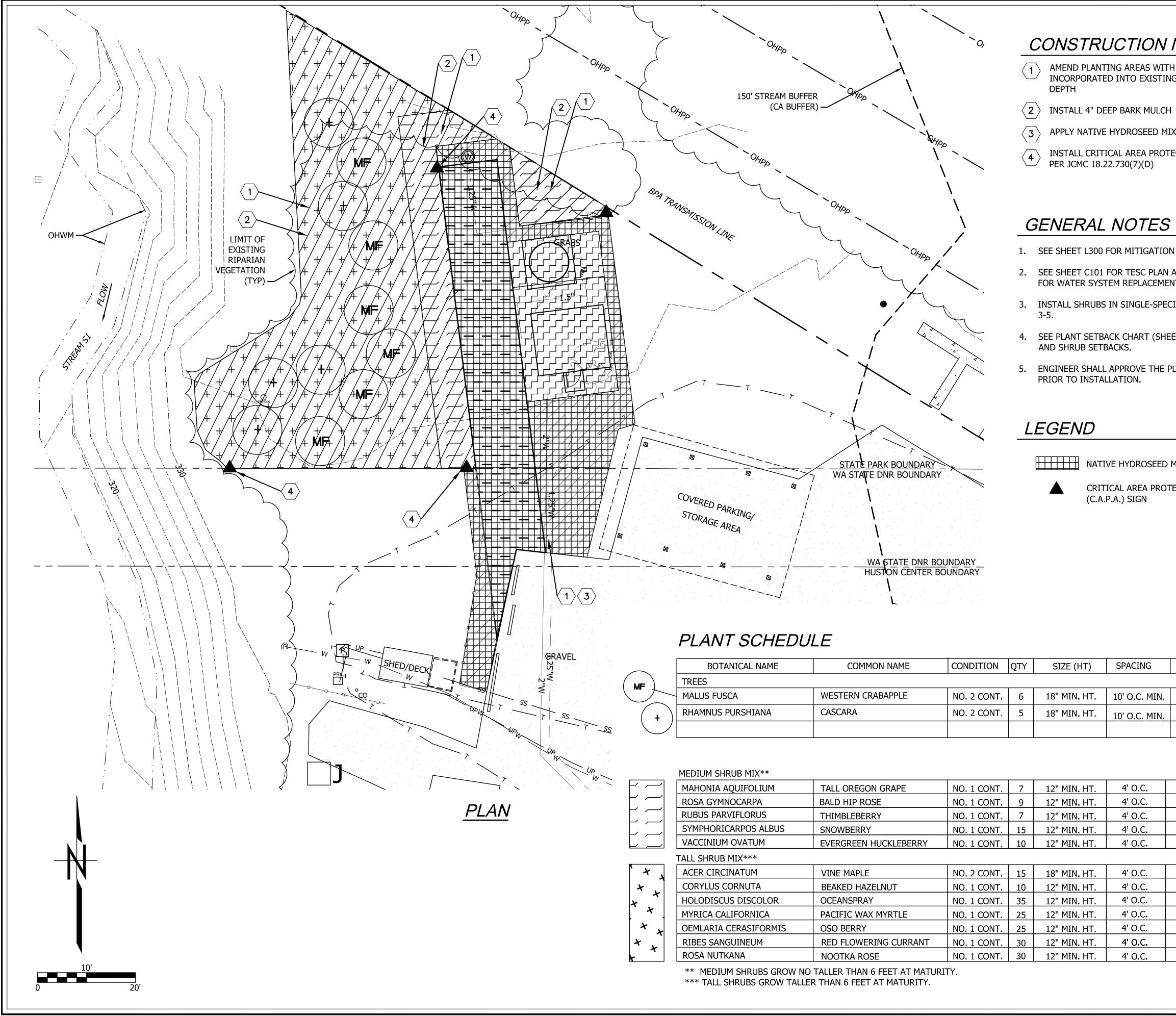
BUFFER ENHANCEMENT FOR PERMANENT BUFFER



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PARKS FILE#

AS SHOWN

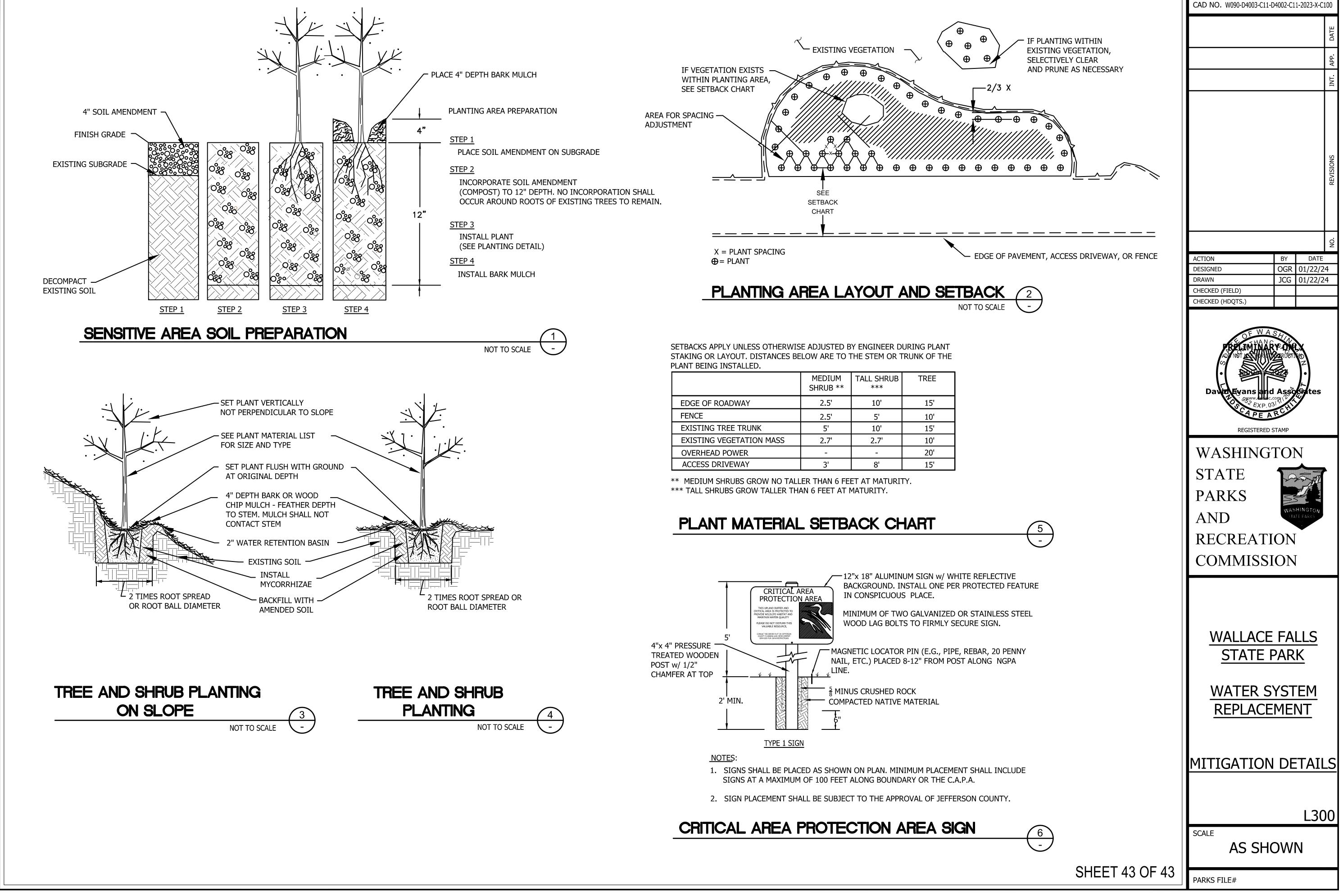


	BOTANICAL NAME	COMMON NAME	CONDITION	QTY	SIZE (HT)	SPACING
	TREES					
	MALUS FUSCA	WESTERN CRABAPPLE	NO. 2 CONT.	6	18" MIN. HT.	10' O.C. MIN.
+)	RHAMNUS PURSHIANA	CASCARA	NO. 2 CONT.	5	18" MIN. HT.	10' O.C. MIN.

$ \vdash $	
\vdash	<i></i>
\vdash	
	~

TALL OREGON GRAPE BALD HIP ROSE	NO. 1 CONT.	7	12" MIN. HT.	4100
BALD HIP ROSE				4' O.C.
	NO. 1 CONT.	9	12" MIN. HT.	4' O.C.
THIMBLEBERRY	NO. 1 CONT.	7	12" MIN. HT.	4' O.C.
SNOWBERRY	NO. 1 CONT.	15	12" MIN. HT.	4' O.C.
EVERGREEN HUCKLEBERRY	NO. 1 CONT.	10	12" MIN. HT.	4' O.C.
VINE MAPLE	NO. 2 CONT.	15	18" MIN. HT.	4' O.C.
BEAKED HAZELNUT	NO. 1 CONT.	10	12" MIN. HT.	4' O.C.
OCEANSPRAY	NO. 1 CONT.	35	12" MIN. HT.	4' O.C.
PACIFIC WAX MYRTLE	NO. 1 CONT.	25	12" MIN. HT.	4' O.C.
OSO BERRY	NO. 1 CONT.	25	12" MIN. HT.	4' O.C.
RED FLOWERING CURRANT	NO. 1 CONT.	30	12" MIN. HT.	4' O.C.
NOOTKA ROSE	NO. 1 CONT.	30	12" MIN. HT.	4' O.C.
	SNOWBERRY EVERGREEN HUCKLEBERRY VINE MAPLE BEAKED HAZELNUT OCEANSPRAY PACIFIC WAX MYRTLE OSO BERRY RED FLOWERING CURRANT NOOTKA ROSE	SNOWBERRYNO. 1 CONT.EVERGREEN HUCKLEBERRYNO. 1 CONT.VINE MAPLENO. 2 CONT.BEAKED HAZELNUTNO. 1 CONT.OCEANSPRAYNO. 1 CONT.PACIFIC WAX MYRTLENO. 1 CONT.OSO BERRYNO. 1 CONT.RED FLOWERING CURRANTNO. 1 CONT.	SNOWBERRYNO. 1 CONT.15EVERGREEN HUCKLEBERRYNO. 1 CONT.10VINE MAPLENO. 2 CONT.15BEAKED HAZELNUTNO. 1 CONT.10OCEANSPRAYNO. 1 CONT.35PACIFIC WAX MYRTLENO. 1 CONT.25OSO BERRYNO. 1 CONT.25RED FLOWERING CURRANTNO. 1 CONT.30NOOTKA ROSENO. 1 CONT.30	SNOWBERRYNO. 1 CONT.12MIN. HT.EVERGREEN HUCKLEBERRYNO. 1 CONT.1012" MIN. HT.VINE MAPLENO. 2 CONT.1012" MIN. HT.BEAKED HAZELNUTNO. 1 CONT.1012" MIN. HT.OCEANSPRAYNO. 1 CONT.3512" MIN. HT.PACIFIC WAX MYRTLENO. 1 CONT.2512" MIN. HT.OSO BERRYNO. 1 CONT.2512" MIN. HT.NOOTKA ROSENO. 1 CONT.3012" MIN. HT.

	CAD NO. W090-D4003-C11-D4002-C11-2023-X-C100
NOTES	DATE
H 4" SOIL AMENDMENT G SUBGRADE TO A 12"	APP.
	IN T
x	
ECTION AREA SIGN(S)	
	SS
	REVISIONS
N DETAILS.	
IT SITE LAYOUT.	ACTION BY DATE
IES GROUPINGS OF	DESIGNED OGR 01/22/24 DRAWN JCG 01/22/24
ET L300) FOR TREE	CHECKED (FIELD) CHECKED (HDQTS.)
LANT LAYOUT	
	PRELIMINARY ONLY
	DO NOT USE FOR CONSTRUCTION
	David Evans and Associates
MIX. SEE SPECIFICATIONS	www.deainc.com
	WASHINGTON
	STATE PARKS
	AND STATE PARKS
	RECREATION
	COMMISSION
REMARKS	
WELL BRANCHED	
WELL BRANCHED, SINGLE LEADER	WALLACE FALLS
	STATE PARK
FULL CONTAINER	WATER SYSTEM
FULL CONTAINER	REPLACEMENT
WELL BRANCHED WELL BRANCHED	
WELL BRANCHED	BUFFER
WELL BRANCHED WELL BRANCHED	ENHANCEMENT PLAN
FULL CONTAINER FULL CONTAINER	
FULL CONTAINER WELL BRANCHED	L200
WELL BRANCHED	SCALE AS SHOWN
SHEET 42 OF 43	
	PARKS FILE#



	MEDIUM SHRUB **	TALL SHRUB	TREE
EDGE OF ROADWAY	2.5'	10'	15'
FENCE	2.5'	5'	10'
EXISTING TREE TRUNK	5'	10'	15'
EXISTING VEGETATION MASS	2.7'	2.7'	10'
OVERHEAD POWER	_	_	20'
ACCESS DRIVEWAY	3'	8'	15'