

# WASHINGTON STATE PARKS & RECREATION COMMISSION

SOPHIA DANENBERG, CHAIR

KEN BOUNDS

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MICHAEL LATIMER

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APPROVED FOR CONSTRUCTION

*Paul G...* 10/30/2024  
 REGION MANAGER date  
*Kyle Murphy* 11/1/2024  
 CAPITAL PROGRAM MANAGER date

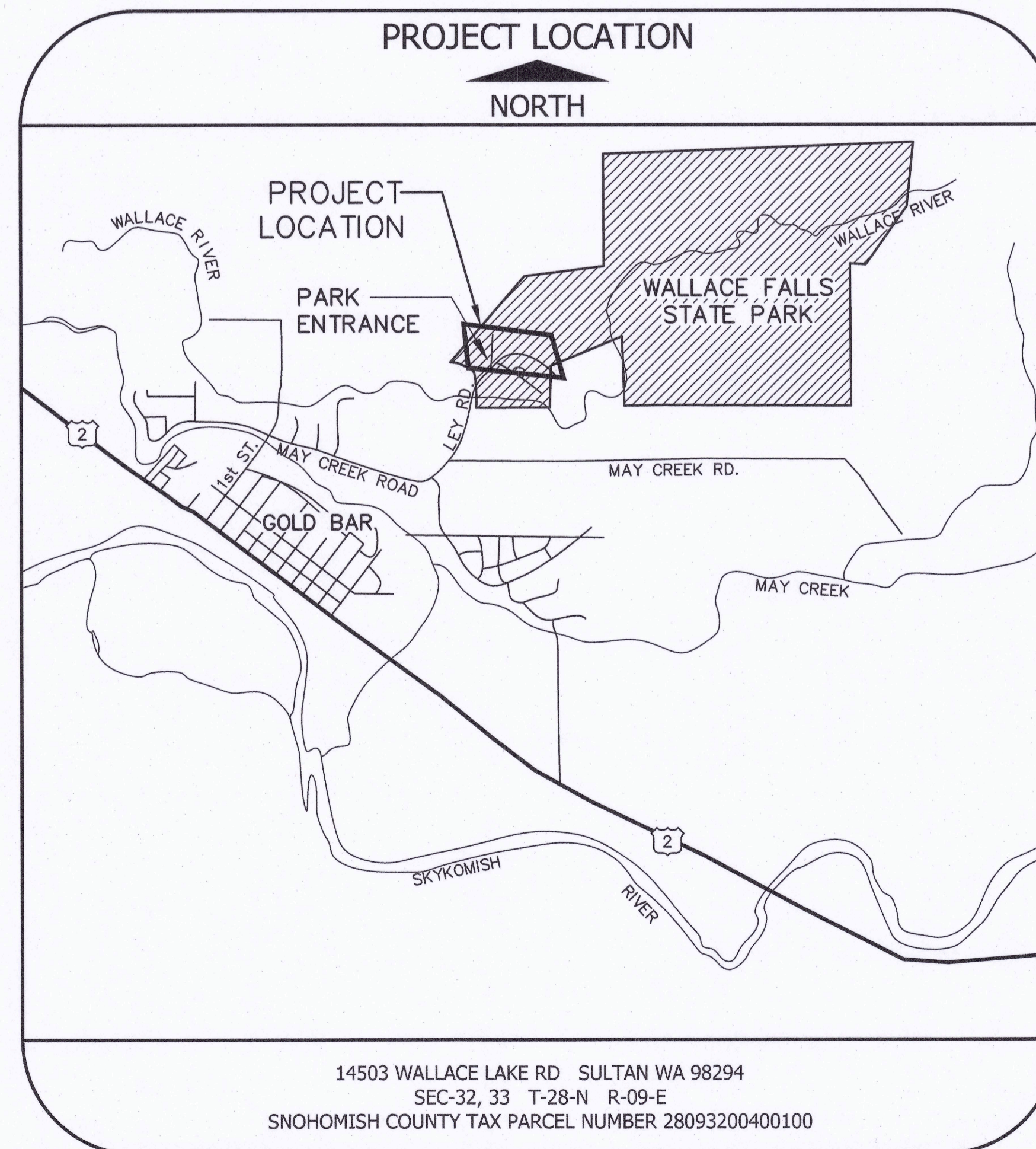
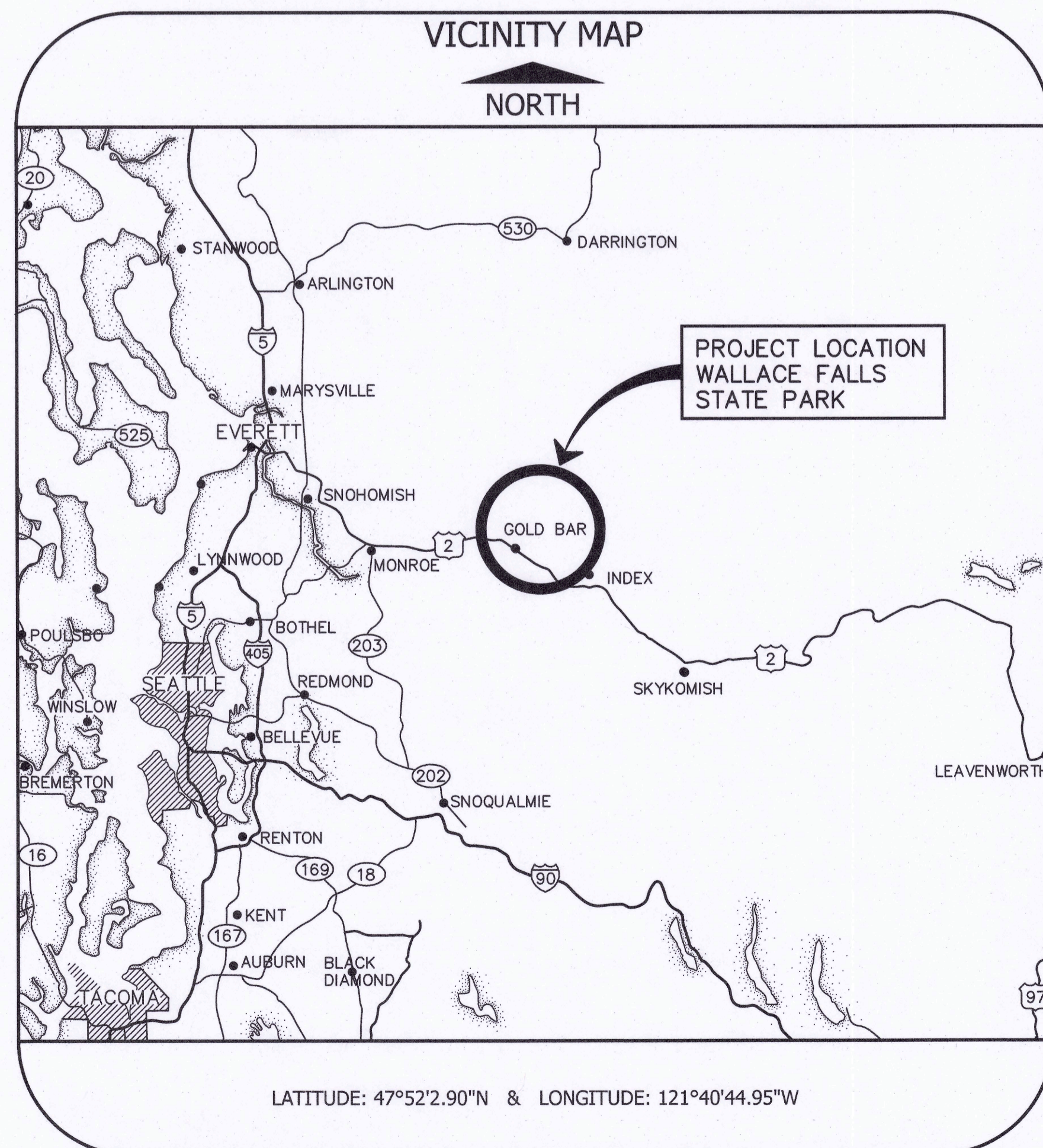
Area Manager: SHAWN TOBIN

## WALLACE FALLS STATE PARK

WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING

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# 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 REPRESENTATIVE: SEE INVITATION TO BID FOR PROJECT REPRESENTATIVE CONTACT




## PROJECT ENGINEERING CONSULTANTS

PROJECT LEAD:  **consor**  
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 421 WEST RIVERSIDE  
 SUITE #762  
 SPOKANE, WA 99201  
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 preston.love@consoreng.com

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 AHARTVIGSEN@GEOENGINEERS.COM

CAD NO. W090-D4002-C11-2024-2-G101

NO.	REVISIONS	INT.	APP.	DATE

ACTION	BY	DATE
DESIGNED	HKP	08/31/23
DRAWN	DKH	08/31/23
CHECKED (FIELD)		
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REGISTERED STAMP

WASHINGTON  
 STATE  
 PARKS  
 AND  
 RECREATION  
 COMMISSION



WALLACE FALLS  
 STATE PARK

WELL DRILLING,  
 CONSTRUCTION,  
 DEVELOPMENT,  
 AND TESTING

PROJECT TEAM

G101

SCALE  
 NONE

PARKS FILE#

# LEGEND

	EXISTING	PROPOSED
EDGE OF ASPHALT		
TRAIL		
GRAVEL		
CONCRETE		
FENCING		
UNDERGROUND WATER LINE		
ALTERNATIVE UNDERGROUND WATER LINE		
UNDERGROUND SANITARY SEWER LINE		
UNDERGROUND SEPTIC LINE		
UNDERGROUND POWER LINE		
UNDERGROUND COMMUNICATIONS TV LINE		
OVERHEAD POWER LINE		
BUILDING/STRUCTURE LINE		
BUILDING EVE LINE		
EDGE OF STREAM		
SWALE		
PROPERTY LINE		
CONTOUR MINOR		
CONTOUR MAJOR		
TOE OF SLOPE		
TOP OF SLOPE		
EDGE OF TREES/SHRUBS		
BPA ROW		
CRITICAL AREA BUFFER		
WELL HEAD SANITARY CONTROL AREA		
WELL		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
HOSE BIB		
CATCH BASIN		
ROOF DRAIN		
SANITARY CLEANOUT		
HI VISIBILITY SEDIMENT FENCING		
GRASS PAVE		

- JUNCTION BOX
- POWER TRANSFORMER
- POWER JUNCTION BOX
- TELEPHONE JUNCTION BOX
- FLAG POLE
- BOLLARDS
- MAIL BOX
- PAY BOX
- STORM CULVERT
- ENVIRONMENTAL PROBE
- DHA SURVEY CONTROL (HUB AND TACK)
- DHA SURVEY CONTROL (REBAR AND CAP)
- WETLAND FLAG
- SIGN
- BBQ
- FIRE PIT
- SUBSURFACE TEST PIT
- HANDICAPPED PARKING
- FIR TREE
- HEMLOCK OR CEDAR TREE
- COTTONWOOD TREE
- ALDER TREE OR SHRUB
- MAPLE TREE
- DECIDUOUS TREE

## EXISTING

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## ABBREVIATIONS

ABBREVIATION	MEANING
APPROX	APPROXIMATE
BGS	BELOW GROUND SURFACE
BPA	BONNEVILLE POWER ADMINISTRATION
CA	CRITICAL AREA
DET	DETAIL
DF	DRAIN FIELD
DIA	DIAMETER
(E)/EXIST	EXISTING
LOC	LOCATION
OD	OUTER DIAMETER
MIN	MINIMUM
OHPP	OVERHEAD POWER
(P)	PROPOSED
SHT	SHEET
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TYP	TYPICAL

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WALLACE FALLS STATE PARK

WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING

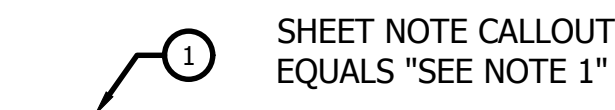
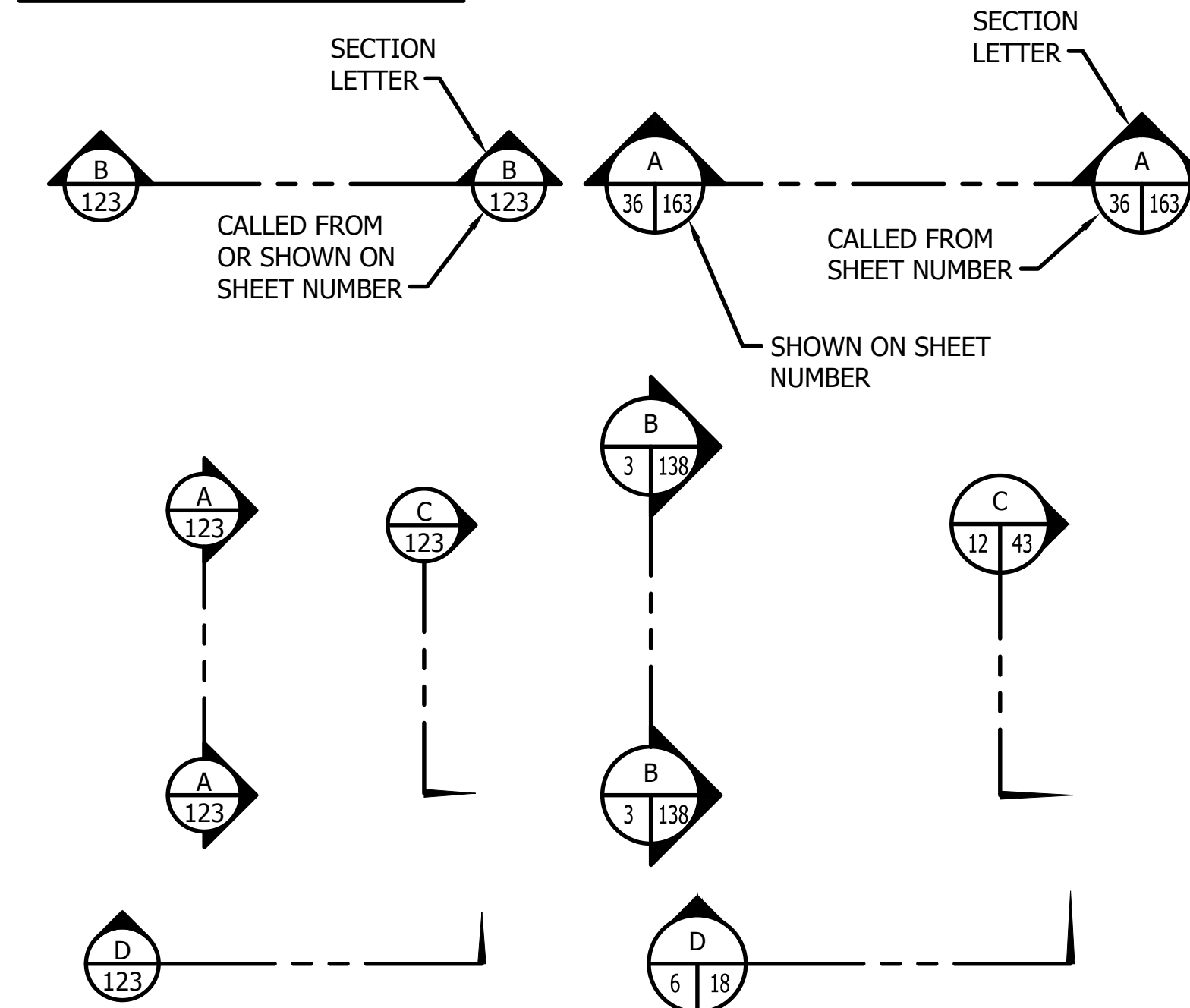
GENERAL LEGEND AND ABBREVIATIONS

G102

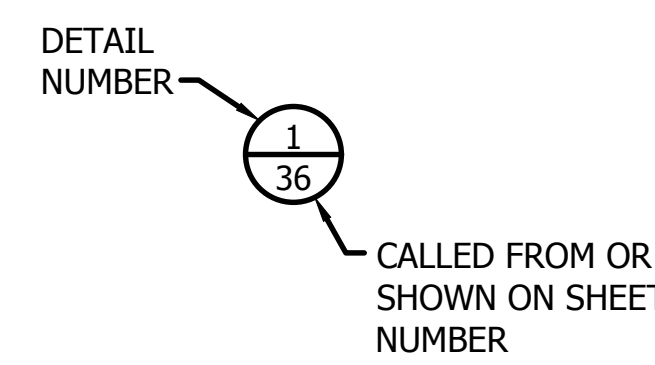
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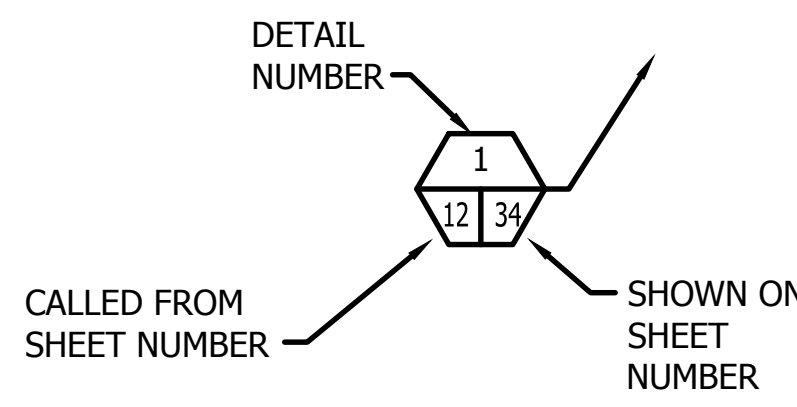
## SHEET SYMBOLS



SHEET NOTE CALLOUT



2 PART DETAIL CALLOUT



3 PART DETAIL CALLOUT

2 PART SECTION CALLOUTS

3 PART SECTION CALLOUTS

## CALLOUTS



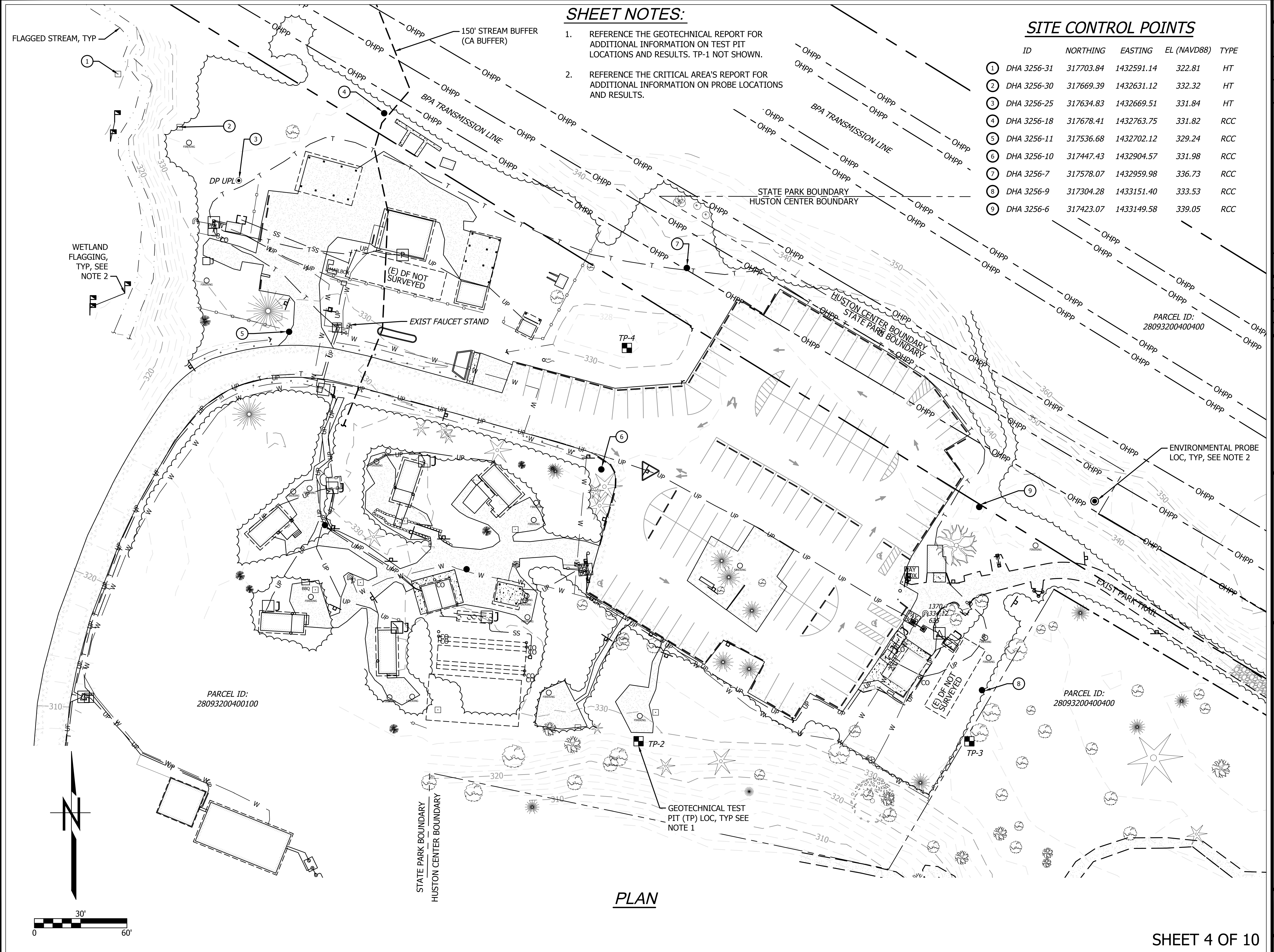
Know what's below. Call before you dig.

**SHEET NOTES:**

1. REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION ON TEST PIT LOCATIONS AND RESULTS. TP-1 NOT SHOWN.
2. REFERENCE THE CRITICAL AREA'S REPORT FOR ADDITIONAL INFORMATION ON PROBE LOCATIONS AND RESULTS.

**SITE CONTROL POINTS**

ID	NORTHING	EASTING	EL (NAVD88)	TYPE	
①	DHA 3256-31	317703.84	1432591.14	322.81	HT
②	DHA 3256-30	317669.39	1432631.12	332.32	HT
③	DHA 3256-25	317634.83	1432669.51	331.84	HT
④	DHA 3256-18	317678.41	1432763.75	331.82	RCC
⑤	DHA 3256-11	317536.68	1432702.12	329.24	RCC
⑥	DHA 3256-10	317447.43	1432904.57	331.98	RCC
⑦	DHA 3256-7	317578.07	1432959.98	336.73	RCC
⑧	DHA 3256-9	317304.28	1433151.40	333.53	RCC
⑨	DHA 3256-6	317423.07	1433149.58	339.05	RCC



**PLAN**

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**WASHINGTON STATE PARKS AND RECREATION COMMISSION**



**WALLACE FALLS STATE PARK**

**WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING**

**EXISTING SITE CONDITIONS AND CONTROL POINTS**

C100

SCALE  
**AS SHOWN**

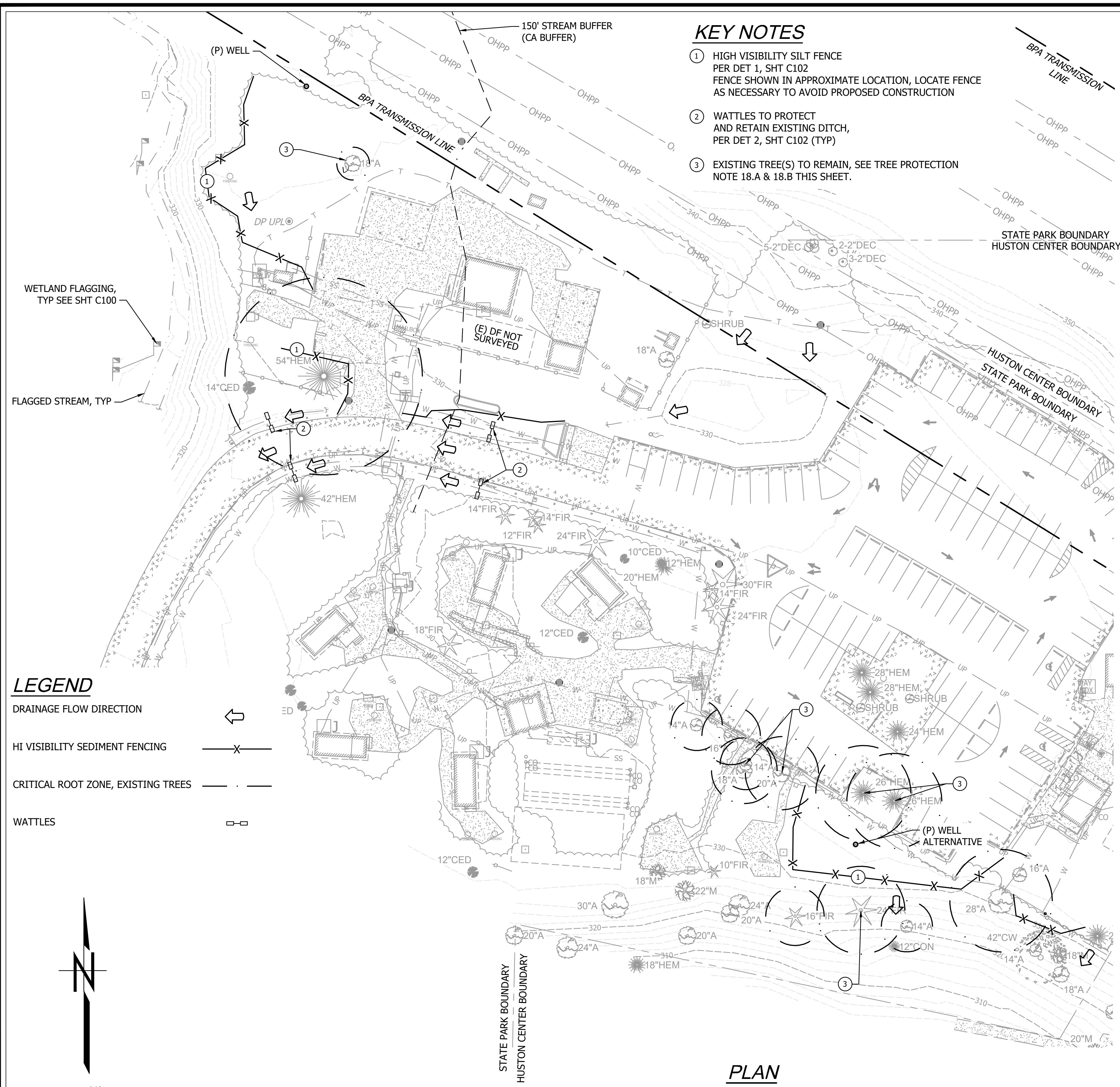
PARKS FILE#

**KEY NOTES**

- ① HIGH VISIBILITY SILT FENCE PER DET 1, SHT C102 FENCE SHOWN IN APPROXIMATE LOCATION, LOCATE FENCE AS NECESSARY TO AVOID PROPOSED CONSTRUCTION
- ② WATTLES TO PROTECT AND RETAIN EXISTING DITCH, PER DET 2, SHT C102 (TYP)
- ③ EXISTING TREE(S) TO REMAIN, SEE TREE PROTECTION NOTE 18.A & 18.B THIS SHEET.

**EROSION CONTROL NOTES**

1. THIS TESC AND TREE PROTECTION PLAN IS PROVIDED AS MINIMUM PROJECT REQUIREMENTS TO PREVENT POLLUTION OF AIR AND WATER, AND CONTROL, RESPOND TO, AND DISPOSE OF ERODED SEDIMENT AND TURBID WATER DURING THE CONTRACTED WORK. THE CONTRACTOR IS RESPONSIBLE FOR UPDATING THIS PLAN AS REQUIRED TO MEET PERMIT REQUIREMENTS.
  - 1.A. REFERENCE SPECIFICATION 015713 TEMPORARY EROSION AND SEDIMENT CONTROL.
2. CONTRACTOR SHALL CONFIRM DRAINAGE PATHWAYS PRIOR TO BEGINNING CONSTRUCTION.
3. TO REDUCE THE RISK TO ADJACENT CRITICAL AREAS AND MINIMIZE THE POTENTIAL FOR ADVERSE EFFECT TO THE ENVIRONMENT THE CONTRACTOR SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING BMPs.
4. PRESERVE NATURAL VEGETATION ALONG PERIMETER OF THE SITE PER SCDM BMP C101. CONTRACTOR SHALL PROTECT EXISTING VEGETATION ALONG EXISTING SLOPES, PROPERTY LINES, NEAR WATERCOURSES, AND WOODED AREAS. IDENTIFY CONSTRUCTION LIMITS BEFORE BEGINNING WORK AND MARK ACCORDINGLY TO PREVENT VEGETATION REMOVAL OR EARTH DISTURBANCE BEYOND THE PROJECT AREA.
5. INSTALL HIGH VISIBILITY SILT FENCE AT THE OUTSIDE EDGES OF PROJECT PRIOR TO ANY EARTHWORK.
6. INSTALL WATTLES TO CONTAIN SEDIMENT.
7. INSTALL TEMPORARY SEDIMENT CONTROL DEVICES, SUCH AS SEDIMENT MATS, FILTER BAGS, EROSION BLANKETS, SEDIMENT TRAPS, STAKED SEDIMENT BARRIERS, WATER BLADDER DAMS, AND/OR "DIRT BAGS" AS NECESSARY.
  - 7.A. ANY CHANGES TO THIS TESC AND TREE PROTECTION PLAN SHOULD BE CONFIRMED WITH THE OWNER.
8. REVEGETATE DISTURBED AREAS UPON PROJECT COMPLETION WITH NATIVE HYDROSEED MIX AS APPROVED BY THE OWNER.
9. LOCATE STAGING AREAS IN AREAS THAT WILL PREVENT THE POTENTIAL CONTAMINATION OF ANY WETLAND OR WATERBODY.
10. SERVICE AND REFUEL VEHICLES A MIN. OF 150 FT FROM THE STREAM AND WETLANDS TO REDUCE POTENTIAL SPILLS OF PETROLEUM AND HYDRAULIC FLUIDS IN SENSITIVE AREAS. ADDITIONALLY, DRIP PANS WILL BE FITTED WITH ABSORBENT PADS AND PLACED UNDER ALL EQUIPMENT BEING FUELED.
11. INSPECT ALL VEHICLES DAILY OPERATING WITHIN 100 FT OF ANY STREAM OR WATERBODY FOR FLUID LEAKS BEFORE LEAVING THE VEHICLE STAGING AREA. ANY LEAKS DETECTED WILL BE REPAIRED BEFORE THE VEHICLE RESUMES OPERATION. WHEN NOT IN USE, ALL VEHICLES WILL BE STORED IN THE VEHICLE STAGING AREA AS PRACTICABLE.
12. INSPECT OTHER VEHICLES THAT MAY BE STORED IN PLACE, SUCH AS CRANES, DAILY FOR FLUID LEAKS.
13. IMPLEMENT SPILL CONTROL AND EMERGENCY RESPONSE PLANS FOR FUELING, CONCRETE ACTIVITY, AND STAGING AREAS. THE SPILL CONTROL/PREVENTION PLAN WILL INCLUDE THE FOLLOWING ITEMS: NOTIFICATION PROCEDURES; SPECIFIC CLEANUP AND DISPOSAL INSTRUCTIONS FOR DIFFERENT PRODUCTS; QUICK RESPONSE CONTAINMENT AND CLEANUP MEASURES THAT WILL BE AVAILABLE ON SITE; AND EMPLOYEE TRAINING FOR SPILL CONTAINMENT. THESE PLANS WILL SATISFY ALL PERTINENT REQUIREMENTS SET FORTH BY FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
14. NO WET OR CURING CONCRETE, INCLUDING WASHOUT OF EQUIPMENT, SHALL ENTER PROJECT WATERS. A CONTAINMENT TARP WILL BE USED TO ISOLATE ANY RUNOFF FROM ACTIVITIES INVOLVING WET OR CURING CONCRETE ACTIVITIES.
15. NO MATERIAL SHALL BE PLACED OR DISCHARGED INTO PROJECT AREA WETLANDS OR STREAMS.
16. SURFACE WATER SHALL NOT BE DIRECTED TOWARDS THE TOP OF SLOPES OR ONTO SLOPES.
17. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF SNOHOMISH COUNTY.
18. TREE PROTECTION & REMOVAL NOTES:
  - 18.A. CRITICAL ROOT ZONES SHOWN ARE MINIMUM BASED ON CIRCULAR AREA HAVING A RADIUS OF ONE FOOT FOR EACH ONE INCH OF TRUNK DIAMETER DEFINED BY MEASURING THE TRUNK DIAMETER AT 4.5 FEET ABOVE GROUND LEVEL.
  - 18.B. REFER TO SPECIFICATION 015639, TEMPORARY TREE AND PLANT PROTECTION FOR TREE PROTECTION REQUIREMENTS TO BE COMPLETED PRIOR TO CONSTRUCTION. \
  - 18.C. REFER TO SECTION 3.5 OF SPECIFICATION 015639, TEMPORARY TREE AND PLANT PROTECTION FOR TRENCHING WITHIN THE CRZ.
19. COVER STOCKPILED SOIL WITH PLASTIC.
20. PROVIDE CONCRETE WASHOUT FACILITY OUTSIDE OF STREAM BUFFER AS NECESSARY. LOCATION TO BE COORDINATED WITH THE OWNER.
21. MINIMIZE DUST TO THE EXTENT POSSIBLE, REFERENCE SEPA CHECKLIST FOR POTENTIAL MEASURES AS REQUIRED.



**PLAN**

**LEGEND**

- DRAINAGE FLOW DIRECTION ←
- HI VISIBILITY SEDIMENT FENCING X
- CRITICAL ROOT ZONE, EXISTING TREES - - -
- WATTLES □

	DATE
	APP.
	INT.
	REVISIONS
	NO.

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**WASHINGTON STATE PARKS AND RECREATION COMMISSION**



**WALLACE FALLS STATE PARK**

**WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING**

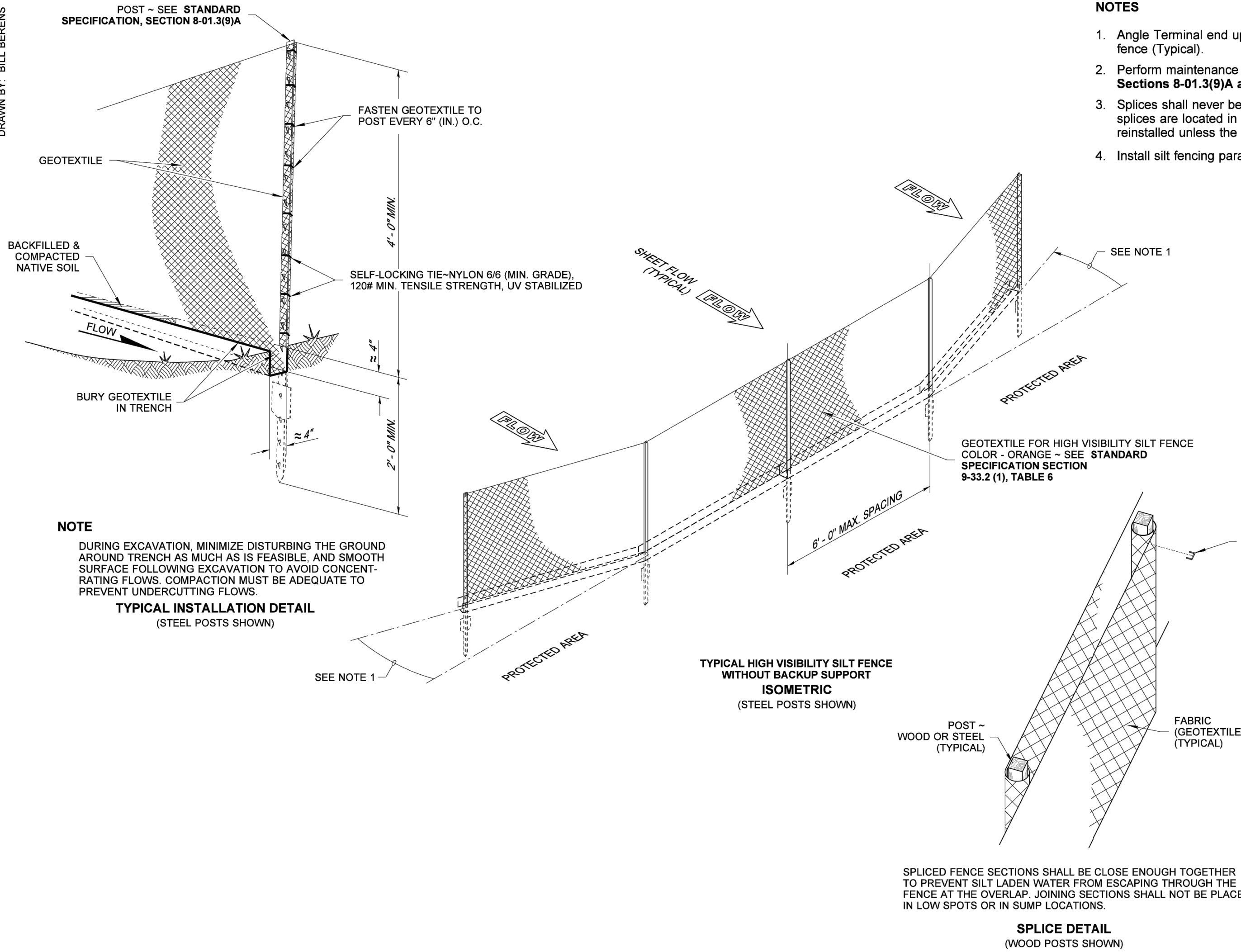
**TESC AND TREE PROTECTION**

C101

SCALE  
**AS SHOWN**

PARKS FILE#

DRAWN BY: BILL BERENS



**NOTES**

1. Angle Terminal end uphill 24" (in) to 48" (in) to prevent flow around fence (Typical).
2. Perform maintenance in accordance with **Standard Specification, Sections 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall never be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



**NOTE**

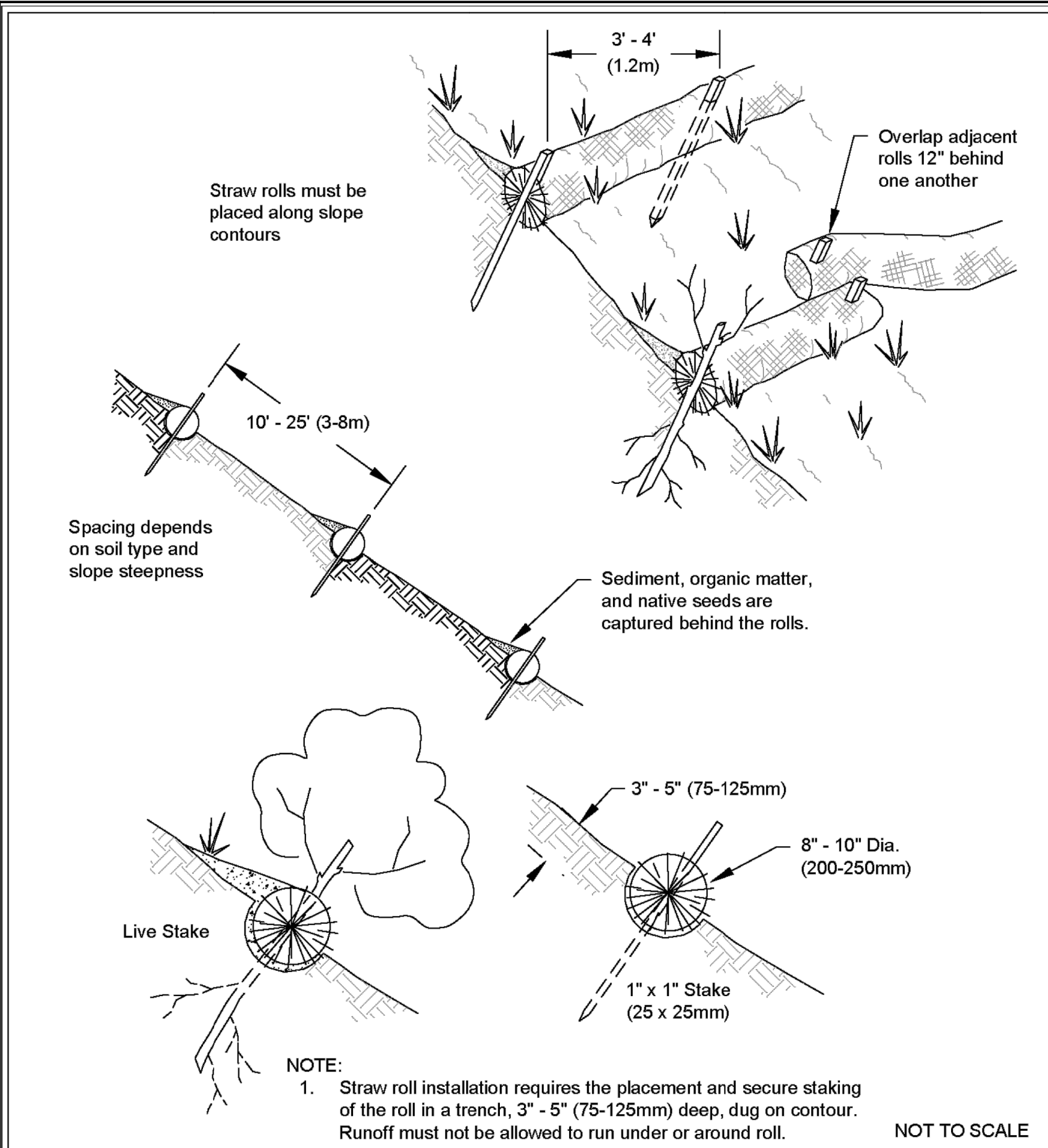
DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

**TYPICAL INSTALLATION DETAIL**  
(STEEL POSTS SHOWN)

**TYPICAL HIGH VISIBILITY SILT FENCE WITHOUT BACKUP SUPPORT ISOMETRIC**  
(STEEL POSTS SHOWN)

**SPlice DETAIL**  
(WOOD POSTS SHOWN)

  
 Hartwig, Juli  
 Jun 4 2019 10:48 AM  
**HIGH VISIBILITY SILT FENCE**  
**STANDARD PLAN I-30.17-01**  
 SHEET 1 OF 1 SHEET  
 APPROVED FOR PUBLICATION  
  
 Stone, Brook  
 Jun 12 2019 7:42 AM  
 STATE DESIGN ENGINEER  
 Washington State Department of Transportation



**NOTE:**

1. Straw roll installation requires the placement and secure staking of the roll in a trench, 3" - 5" (75-125mm) deep, dug on contour. Runoff must not be allowed to run under or around roll.

NOT TO SCALE



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

**Wattles**

Revised December 2016

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1 HIGH VISIBILITY SILT FENCE DETAIL  
C101

2 WATTLE DETAIL  
C101

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**WALLACE FALLS  
STATE PARK**

**WELL DRILLING,  
CONSTRUCTION,  
DEVELOPMENT,  
AND TESTING**

**TESC DETAILS**

C102

SCALE  
**AS SHOWN**

PARKS FILE#

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WALLACE FALLS  
STATE PARK

WELL DRILLING,  
CONSTRUCTION,  
DEVELOPMENT,  
AND TESTING

OVERALL SITE PLAN

C200

SCALE  
AS SHOWN

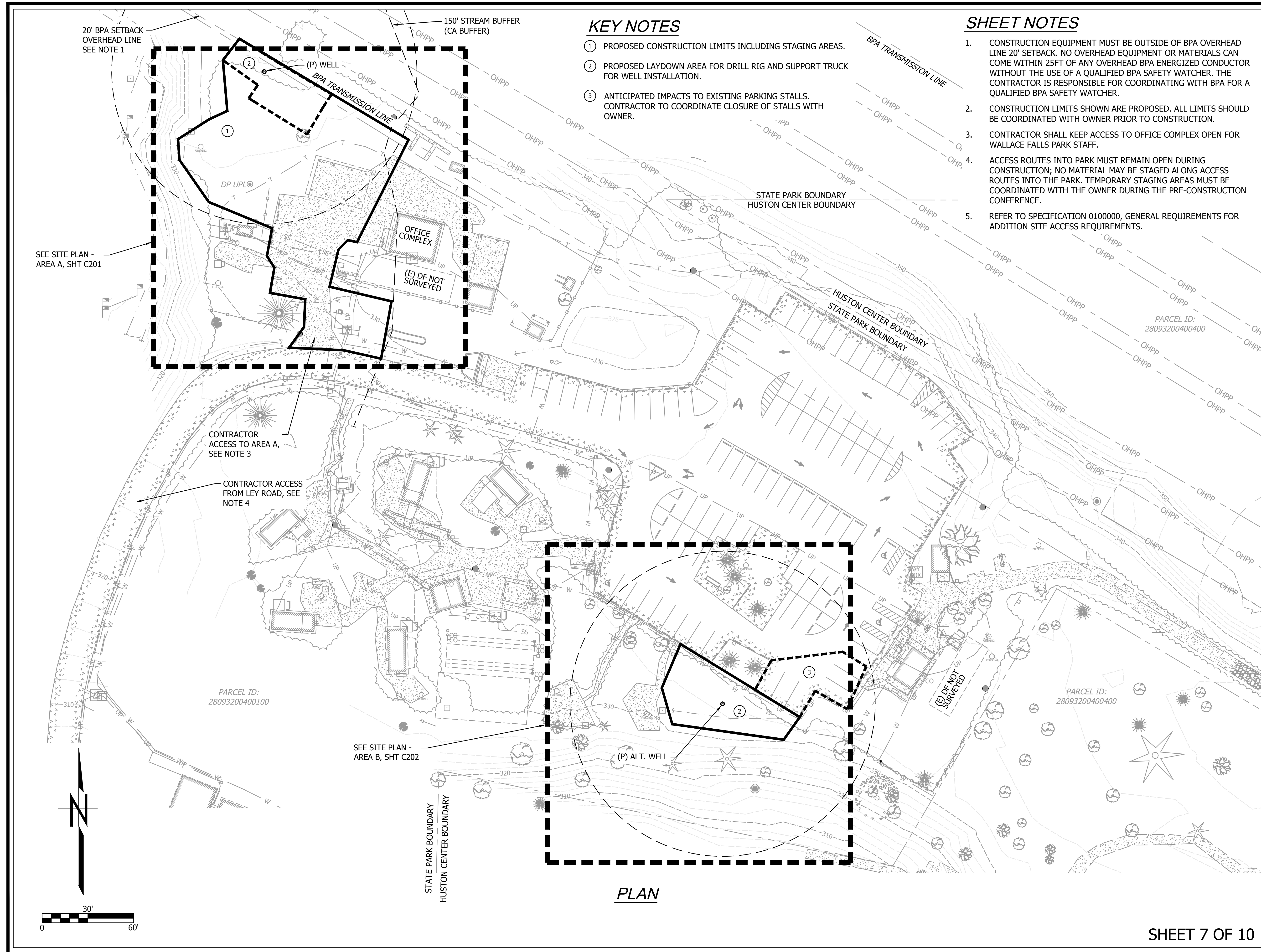
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**SHEET NOTES**

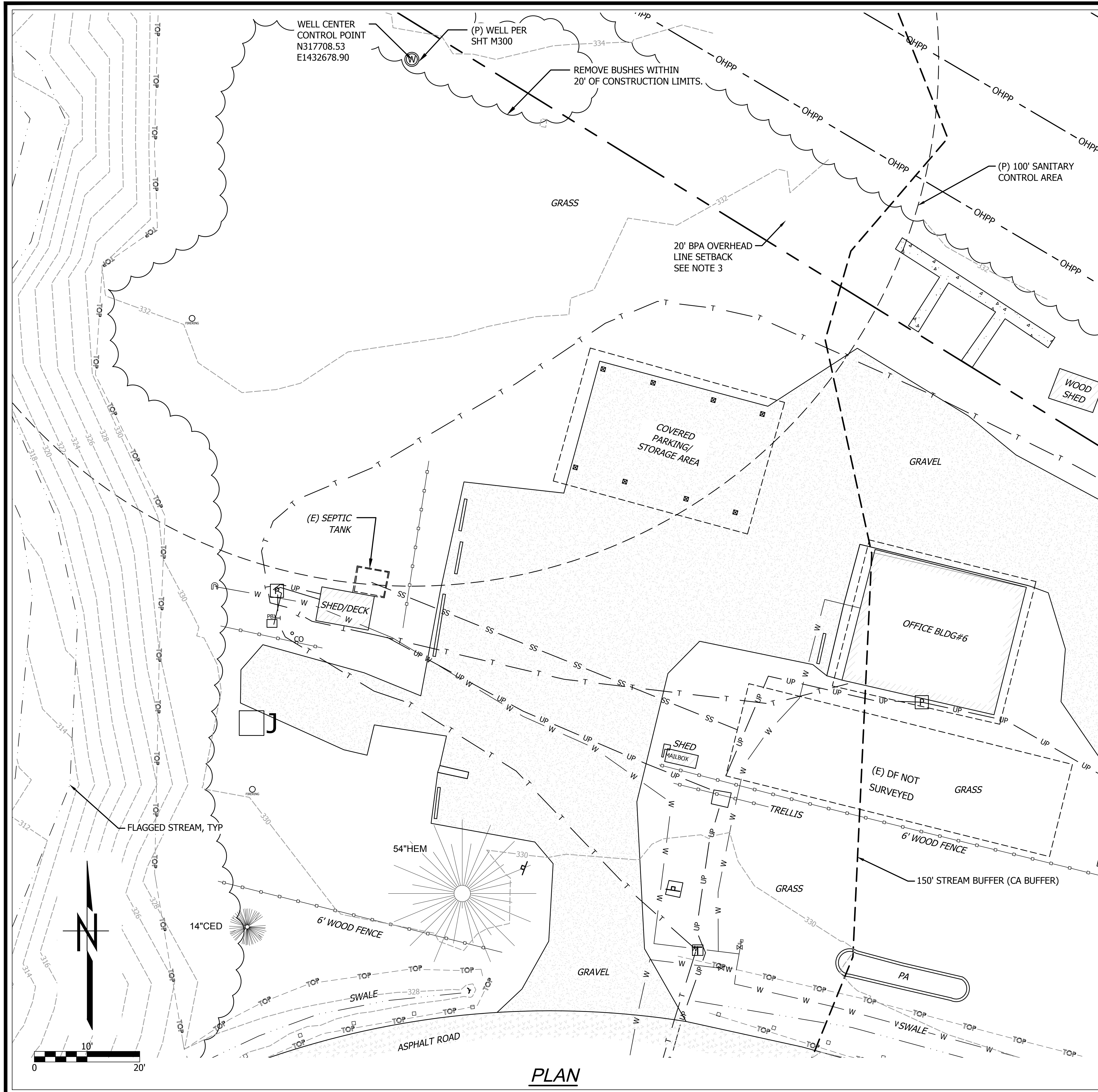
1. CONSTRUCTION EQUIPMENT MUST BE OUTSIDE OF BPA OVERHEAD LINE 20' SETBACK. NO OVERHEAD EQUIPMENT OR MATERIALS CAN COME WITHIN 25FT OF ANY OVERHEAD BPA ENERGIZED CONDUCTOR WITHOUT THE USE OF A QUALIFIED BPA SAFETY WATCHER. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH BPA FOR A QUALIFIED BPA SAFETY WATCHER.
2. CONSTRUCTION LIMITS SHOWN ARE PROPOSED. ALL LIMITS SHOULD BE COORDINATED WITH OWNER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL KEEP ACCESS TO OFFICE COMPLEX OPEN FOR WALLACE FALLS PARK STAFF.
4. ACCESS ROUTES INTO PARK MUST REMAIN OPEN DURING CONSTRUCTION; NO MATERIAL MAY BE STAGED ALONG ACCESS ROUTES INTO THE PARK. TEMPORARY STAGING AREAS MUST BE COORDINATED WITH THE OWNER DURING THE PRE-CONSTRUCTION CONFERENCE.
5. REFER TO SPECIFICATION 0100000, GENERAL REQUIREMENTS FOR ADDITION SITE ACCESS REQUIREMENTS.

**KEY NOTES**

1. PROPOSED CONSTRUCTION LIMITS INCLUDING STAGING AREAS.
2. PROPOSED LAYDOWN AREA FOR DRILL RIG AND SUPPORT TRUCK FOR WELL INSTALLATION.
3. ANTICIPATED IMPACTS TO EXISTING PARKING STALLS. CONTRACTOR TO COORDINATE CLOSURE OF STALLS WITH OWNER.



PLAN



**SHEET NOTES:**

1. RETAIN AND PROTECT EXISTING UTILITIES. REFER TO TESC PLAN, SHEET C101 FOR EROSION AND CONTROL REQUIREMENTS.
2. 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.
3. CONTRACTOR TO REDUCE IMPACTS TO AREA WITHIN THE CRITICAL AREA BUFFER TO THE EXTENT POSSIBLE.

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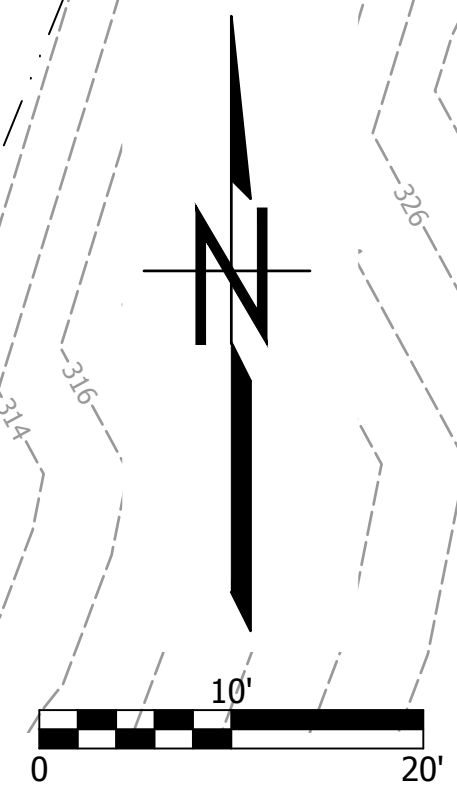
WELL DRILLING,  
CONSTRUCTION,  
DEVELOPMENT,  
AND TESTING

SITE PLAN - AREA A

C201

SCALE  
**AS SHOWN**

PARKS FILE#





**SHEET NOTES:**

1. DRILLING OF THE ALTERNATIVE WELL SITE IS A CONTINGENCY BID ITEM/TASK AND WILL ONLY OCCUR AT THE DIRECTION OF OWNER. REFERENCE SPECIFICATION 332100 WATER SUPPLY WELL SECTION 1.5.
2. REFERENCE SPECIFICATION 000009 SUMMARY OF PAY ITEMS AND SPECIFICATION 012300 ALTERNATES FOR ADDITIONAL INFORMATION.

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**WALLACE FALLS STATE PARK**

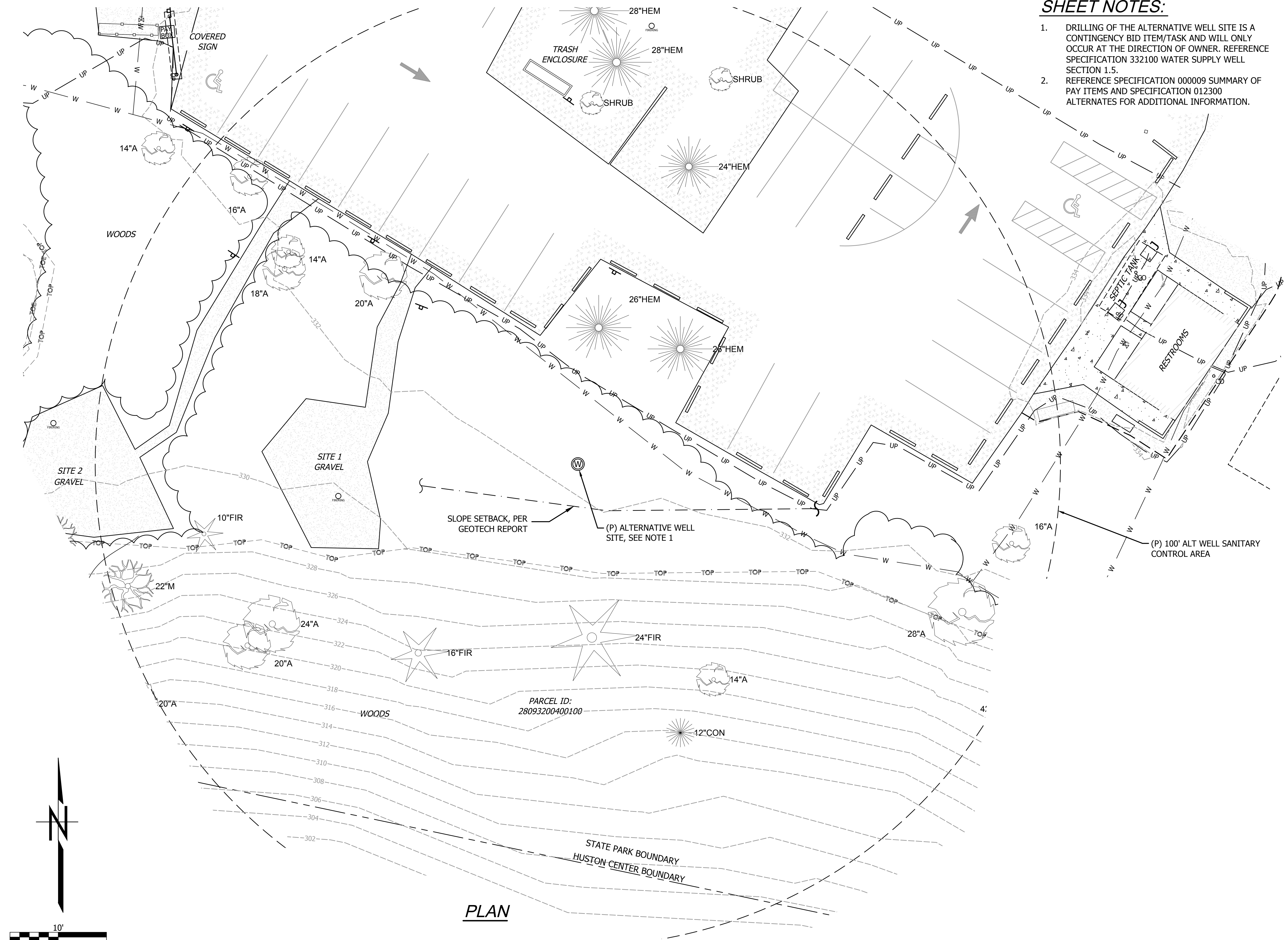
**WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING**

**ALTERNATIVE BID ITEM: SITE PLAN - AREA B**

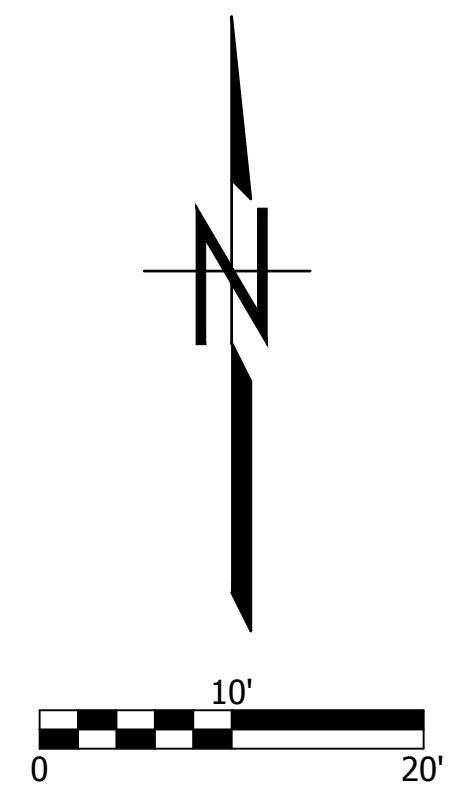
C202

SCALE  
**AS SHOWN**

PARKS FILE#



**PLAN**



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

CASING COVERED WITH A WELDED STEEL PLATE AND ACCESS PORT PER SPECIFICATIONS

FINISHED GROUND SURFACE

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

10" NOMINAL DIA (MIN) SURFACE SEAL IN COMPLIANCE WITH WAC 173-160-231(1)(4)

18' BGS

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

100' +/- BGS

6.625" OD STEEL CASING

CASING SHOE

6" DIA OPEN BOREHOLE (UNCASED)

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

WELL SCREEN/LINER PER SPECIFICATIONS

300' +/- BGS

TAIL PIPE/SUMP APPROX 295' BGS TO 300' BGS

**NOTES:**

1. 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.

DATE  
APP.  
INT.  
REVISIONS  
NO.

ACTION	BY	DATE
DESIGNED	HKP	08/31/23
DRAWN	DKH	08/31/23
CHECKED (FIELD)		
CHECKED (HDQTS.)		



REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



WALLACE FALLS STATE PARK

WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING

WELL PROFILE

M300

SCALE NOT TO SCALE