

# WASHINGTON STATE PARKS & RECREATION COMMISSION



FIELD OPERATIONS MANAGER \_\_\_\_\_ date

CAPITAL PROGRAM MANAGER \_\_\_\_\_ date

SOPHIA DANENBERG, CHAIR

KEN BOUNDS

ALI RAD

LAURIE CONNELLY, VICE-CHAIR

MICHAEL LATIMER

DIANA DUPUIS, DIRECTOR

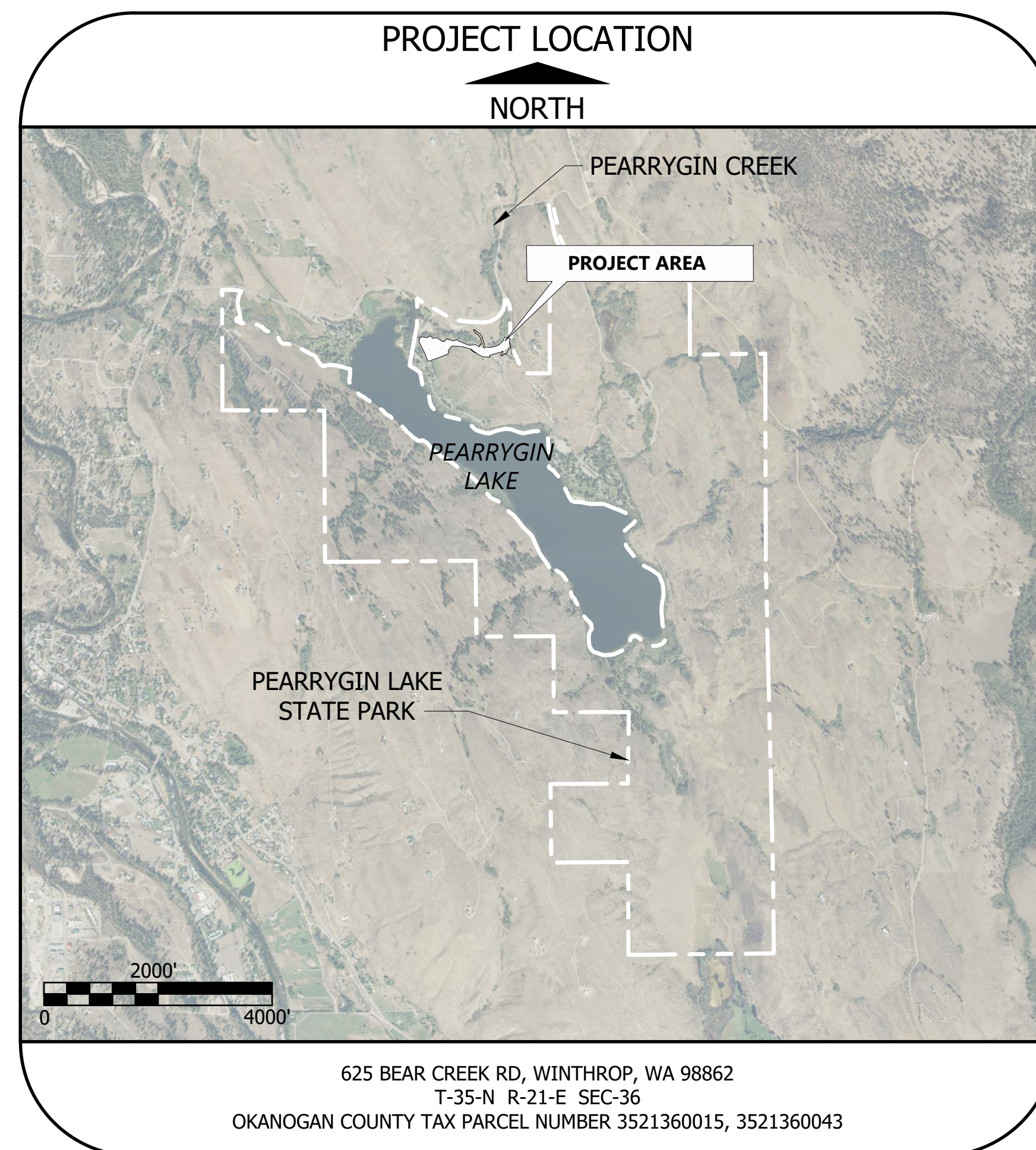
HOLLY WILLIAMS, SECRETARY

SCOTT MERRIMAN

Area Manager: Cindi Confer Morris

## PEARRYGIN LAKE STATE PARK CREEK CHANNEL STABILIZATION

90% DESIGN - APRIL 2024



INDEX	
SHEET	DESCRIPTION
1	COVER SHEET
2	PROJECT TEAM
3	GENERAL NOTES
4	EXISTING CONDITIONS
5	COMPOSITE SITE PLAN
6	ACCESS, STAGING, AND TESC PLAN
7	CARE OF WATER PLAN
8	CLEARING AND REMOVAL PLAN
9	GRADING AND MATERIALS PLAN
10	CHANNEL GRADING AND MATERIALS DETAIL PLAN
11	GRADING AND MATERIALS SECTIONS
12	LIVE CRIB DETAILS (1 OF 2)
13	LOG CONNECTION DETAILS (2 OF 2)
14	PLANTING PLAN
15	PLANT SCHEDULE
16	PLANTING DETAILS

DRAFT DOCUMENT  
SUBJECT TO CHANGE IN WHOLE OR IN PART  
PRELIMINARY DRAFT - NOT FOR CONSTRUCTION

K:\Projects\0363-1-WA State Parks\Pearrygin Lake State Park\Construction Plans\0363-PL-Sheet Index Legend Abbv Notes.dwg PROJECT TEAM

## 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:  
 DUSTIN SULLIVAN, P.E.,  
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### PROJECT ARCHITECTURAL AND ENGINEERING CONSULTANTS

PROJECT LEAD  
 LANDSCAPE  
 ARCHITECTURE,  
 CIVIL, AND  
 GEOTECHNICAL  
 ENGINEERING:



ANCHOR QEA  
 1201 3RD AVE  
 SUITE 2600  
 SEATTLE, WA 98101  
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ANNA SPOONER  
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 TELEPHONE: (206) 903-3375  
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CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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REGISTERED STAMP

WASHINGTON  
 STATE  
 PARKS  
 AND  
 RECREATION  
 COMMISSION



PEARRYGIN LAKE  
 STATE PARK  
  
 CREEK CHANNEL  
 STABILIZATION  
  
 PROJECT TEAM

SCALE

SHEET 2 OF 16

90% DESIGN

PARKS FILE#

**SURVEY NOTES:**

- WASHINGTON STATE PARK PEARRYGIN LAKE CAMPGROUND APRIL 2021 TOPOGRAPHIC MAP COMPLETED BY ERLANDSEN SURVEYING, PLANNING, DESIGNING.
- HORIZONTAL DATUM: NAD 83 (1991)
- VERTICAL DATUM: NAVD88
- CONTOUR INTERVAL: 1 FOOT
- SURVEY NOTES THAT ADDITIONAL UTILITIES MAY EXIST
- SUBSURFACE UTILITY LOCATIONS SHOWN ON SURVEY ARE APPROXIMATE. CONTRACTOR TO POTHOLE PRIOR TO CONSTRUCTION AND CONFIRM UTILITY LOCATIONS.
- ORDINARY HIGH WATER FROM SURVEY.

**EXISTING UTILITY NOTES**

- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE BASED ON SURVEYED UTILITY MARKINGS AND FEATURES VISIBLE AT THE SURFACE, SUPPLEMENTED BY UTILITY MAPPING FROM WASHINGTON STATE PARKS THAT IS LIKELY OUT OF DATE AND HAS NOT BEEN FIELD VERIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL THE UTILITY LOCATION REQUEST CENTER (ONE-CALL CENTER) AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE THE SCHEDULED DATE FOR TRENCHING OR EARTHWORK THAT MAY IMPACT EXISTING UTILITIES.
- THE SIZE, LOCATION, AND TYPE OF UNDERGROUND UTILITIES EXPOSED OR MODIFIED BY THE CONTRACTOR SHALL BE ACCURATELY NOTED AND PLACED ON THE CONTRACTOR'S RECORD DRAWINGS.
- THE CONDITION OF ALL ABANDONED UTILITIES THAT INTERFERE WITH EXECUTION OF THE WORK SHALL BE VERIFIED BY THE UTILITY OWNER PRIOR TO DISTURBANCE OR MODIFICATION. THE CONTRACTOR MAY ONLY TAKE ACTION AFTER WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE UTILITY OWNER BY WASHINGTON STATE PARKS.
- THE CONTRACTOR SHALL ENSURE THAT OPERATIONS OF EXISTING SEWER, WATER, POWER, TELECOMMUNICATIONS, AND OTHER UTILITY SYSTEMS ARE NOT DISRUPTED DURING CONSTRUCTION UNLESS NECESSARY FOR UTILITY WORK SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROVIDE WASHINGTON STATE PARKS WITH 1 WEEK MIN. ADVANCE WRITTEN NOTICE OF ANY NECESSARY DISRUPTION TO SERVICES AND SHUT DOWN SHALL REQUIRE WRITTEN APPROVAL BY WASHINGTON STATE PARKS.

**GENERAL CONSTRUCTION NOTES**

- UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS, ALL MATERIALS AND WORKMANSHIP SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CURRENT WASHINGTON STATE PARKS STANDARDS, OKANAGAN COUNTY STANDARD CODE, THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION), AND OTHER APPLICABLE CODES AND STANDARDS.
- THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED DRAWINGS, APPLICABLE WASHINGTON STATE PARKS AND OKANAGAN COUNTY STANDARDS, AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION) ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR VERIFYING FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES BETWEEN THE EXISTING FIELD CONDITIONS AND THE DRAWINGS OR ANY INCONSISTENCIES OR AMBIGUITIES BETWEEN THE DRAWINGS AND OTHER CONTRACT DOCUMENTS SHALL BE REPORTED IN WRITING TO THE OWNER (WASHINGTON STATE PARKS) PRIOR TO PROCEEDING WITH THE WORK. WORK DONE BY THE CONTRACTOR INVOLVING SUCH DISCREPANCIES WITHOUT A WRITTEN REPORT AND RESPONSE FROM THE OWNER SHALL BE DONE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY CUT SLOPES AND SHORING AS NECESSARY FOR THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS. THE STABILITY OF ALL TEMPORARY SLOPES AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO EXISTING STREAM BANKS AND REDUCE PROJECT EXCAVATION AS IDENTIFIED ON THE CONSTRUCTION PLANS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PROTECT EXISTING STRUCTURES, SIGNS, FENCES, GATES, CURBS, ROADWAYS, DRAINAGE WAYS, CULVERTS, VEGETATION, AND OTHER IMPROVEMENTS UNLESS AND UNTIL SUCH ITEMS ARE TO BE DISTURBED OR REMOVED AS INDICATED ON THE DRAWINGS. IF SUCH ITEMS ARE DAMAGED OR NEED TO BE REMOVED OR MODIFIED TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL FIRST NOTIFY WASHINGTON STATE PARKS AND THEN REPLACE OR REPAIR THE ITEMS TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF WASHINGTON STATE PARKS.
- THE CONTRACTOR SHALL NOT DISTURB OR DESTROY ANY EXISTING SURVEY MONUMENT OR BENCHMARK. ANY SURVEY MONUMENT OR BENCHMARK DISTURBED OR DESTROYED BY THE CONTRACTOR SHALL BE REPLACED AS DIRECTED BY WASHINGTON STATE PARKS.
- WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- THE DETAILS AND NOTES PROVIDED ON THE DRAWINGS AND IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- DIMENSION CALL-OUTS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON THE CONTRACT DOCUMENTS.
- ALL MATERIALS SHALL BE NEW AND UNDAMAGED, UNLESS OTHERWISE APPROVED BY WASHINGTON STATE PARKS AND THE ENGINEER. THE SAME MANUFACTURER OF EACH ITEM SHALL BE USED THROUGHOUT THE WORK UNLESS OTHERWISE APPROVED BY WASHINGTON STATE PARKS AND THE ENGINEER.
- RUBBISH, DEBRIS, AND GARBAGE SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF LEGALLY, AS ALLOWED BY THE WASHINGTON STATE PARKS STANDARDS AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION).
- THE CONTRACTOR SHALL MAINTAIN HAND DRAWN REDLINES, FIELD NOTES AND PHOTOGRAPHS ("FIELD DOCUMENTATION") OF ALL IMPROVEMENTS AS THE WORK PROGRESSES, AS REQUIRED BY THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO TAKE PHOTOGRAPHS AND VIDEO TO DOCUMENT CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR'S FIELD DOCUMENTATION SHALL BE MAINTAINED ON SITE AND SHALL BE AVAILABLE FOR REVIEW BY WASHINGTON STATE PARKS AND THE ENGINEER AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR WORK AREA TURBIDITY MANAGEMENT, ISOLATION, DEWATERING, AND FISH EXCLUSION. FISH RESCUE AND RECOVERY BY OTHERS. PLANTING BY OTHERS.
- IN-STREAM WORK IS ONLY ALLOWED BETWEEN THE DATES PROVIDED IN THE PERMIT DOCUMENTS. SEE SPECIFICATIONS FOR FURTHER DETAIL.

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REGISTERED STAMP

WASHINGTON  
STATE  
PARKS  
AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION  
  
GENERAL NOTES

SCALE

PARKS FILE#

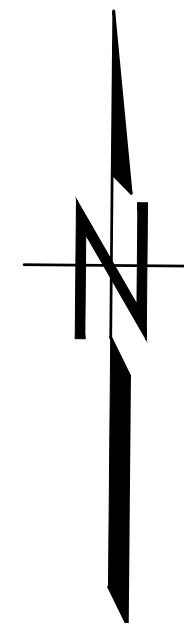
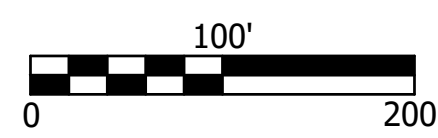


**LEGEND:**

- PROJECT LIMITS
- PARCEL BOUNDARY
- EXISTING CONTOUR MAJOR (5' INTERVAL)
- EXISTING CONTOUR MINOR (1' INTERVAL)
- TOP EXISTING TOP OF SLOPE
- TOE EXISTING TOE OF SLOPE
- OHW EXISTING ORDINARY HIGH WATER (SEE NOTES)
- EXISTING THALWEG (SEE NOTES)
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
- EXISTING IRRIGATION MAIN LINE
- FM EXISTING FORCE MAIN (APPROXIMATE)
- ⊙ EXISTING SEWER UTILITY
- ⊙ EXISTING TREE



- NOTES:
1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.



K:\Projects\0363-1-WA State Parks\Pearrygin Lake State Park\Construction Plans\0363-PL-Existing Conditions.dwg EXISTING CONDITIONS

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PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION

EXISTING  
CONDITIONS

SCALE

1" = 100'

SHEET 4 OF 16

90% DESIGN

PARKS FILE#

**LEGEND, EXISTING:**

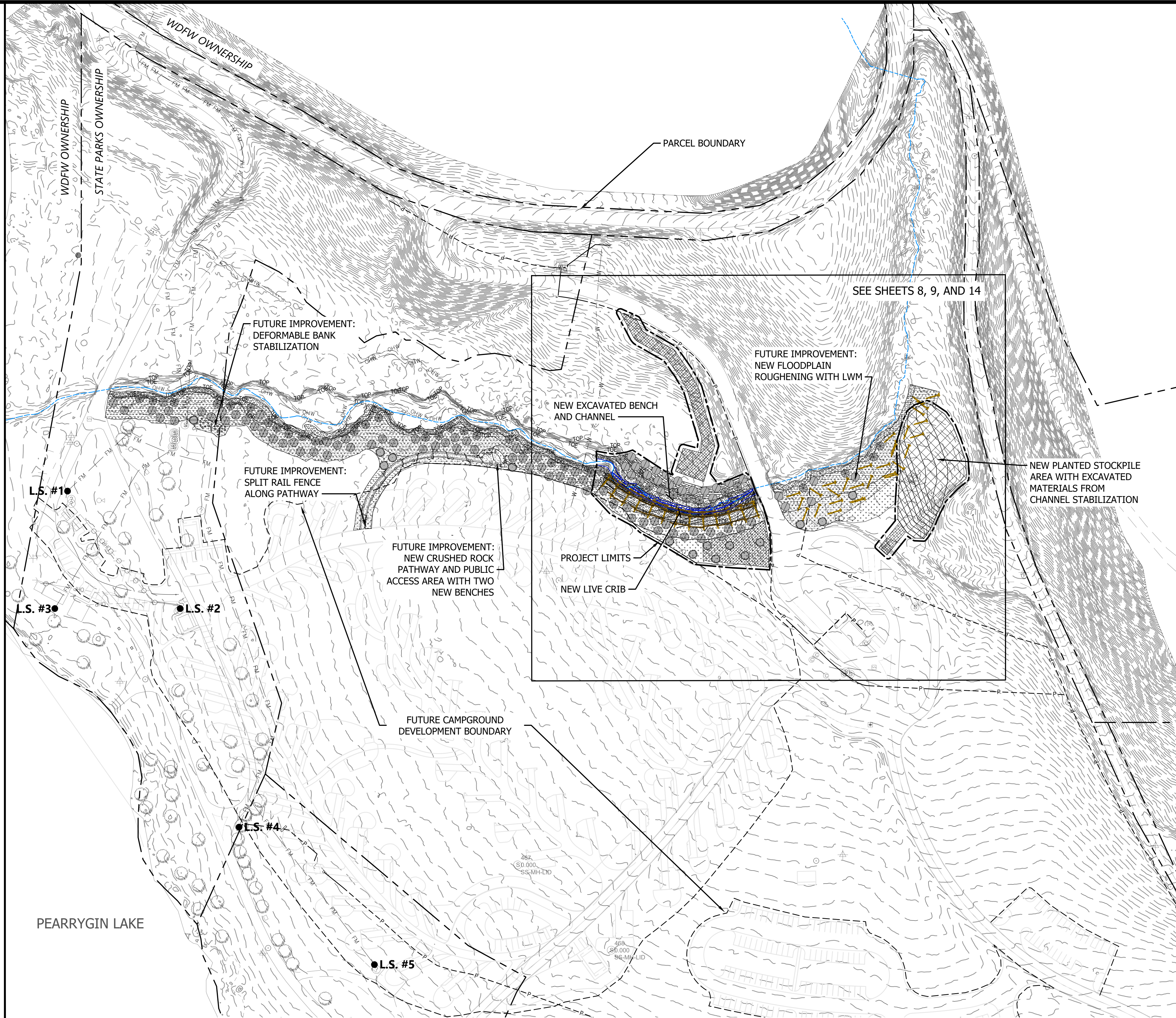
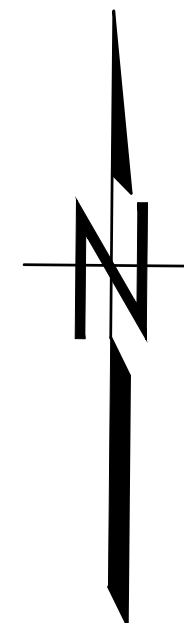
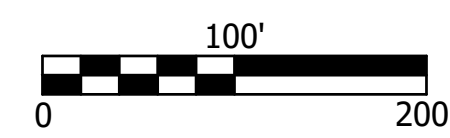
- PARCEL BOUNDARY
- EXISTING CONTOUR MAJOR (5' INTERVAL)
- EXISTING CONTOUR MINOR (1' INTERVAL)
- FUTURE CAMPGROUND DEVELOPMENT BOUNDARY
- TOP --- EXISTING TOP OF SLOPE
- TOE --- EXISTING TOE OF SLOPE
- OHW --- EXISTING ORDINARY HIGH WATER
- EXISTING THALWEG
- OHP --- EXISTING OVERHEAD POWER LINE
- P --- EXISTING UNDERGROUND POWER LINE
- W --- EXISTING IRRIGATION MAIN LINE
- FM --- EXISTING FORCEMAIN (APPROXIMATE)
- ⊙ --- EXISTING SEWER UTILITY
- ⊙ --- EXISTING TREE
- L.S. #1 ● FUTURE FORCE MAIN

**LEGEND, PROPOSED:**

- PROJECT LIMITS
- GRADING LIMITS
- PROPOSED CONTOUR MAJOR (5' INTERVAL)
- PROPOSED CONTOUR MINOR (1' INTERVAL)
- PROPOSED THALWEG
- PROPOSED 2 YEAR FLOOD LINE
- --- NEW SPLIT RAIL FENCE
- ▨ --- IMPORTED STREAMBED GRAVEL
- ▨ --- NEW GRAVEL PATHWAY AND PUBLIC ACCESS AREA
- ▨ --- NEW OVBANK RIPARIAN ZONE PLANTING
- ▨ --- NEW RIPARIAN PLANTING
- ▨ --- NEW UPLAND/SHRUB-STEPPE PLANTING
- ▨ --- RESTORED TEMPORARY ACCESS AND STOCKPILE AREAS
- NEW LARGE WOODY MATERIAL
- NEW CRIB BENCH LOG
- --- NEW BOULDER
- NEW BENCH
- --- NEW TREE

**NOTES:**

1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.
2. FUTURE CAMPGROUND, PLANTING, AND ACCESS FEATURES ARE SHOWN FOR CONTEXT ONLY.



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WASHINGTON  
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COMMISSION

PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION  
  
COMPOSITE SITE  
PLAN

SCALE  
1" = 100'

PARKS FILE#

SHEET 5 OF 16

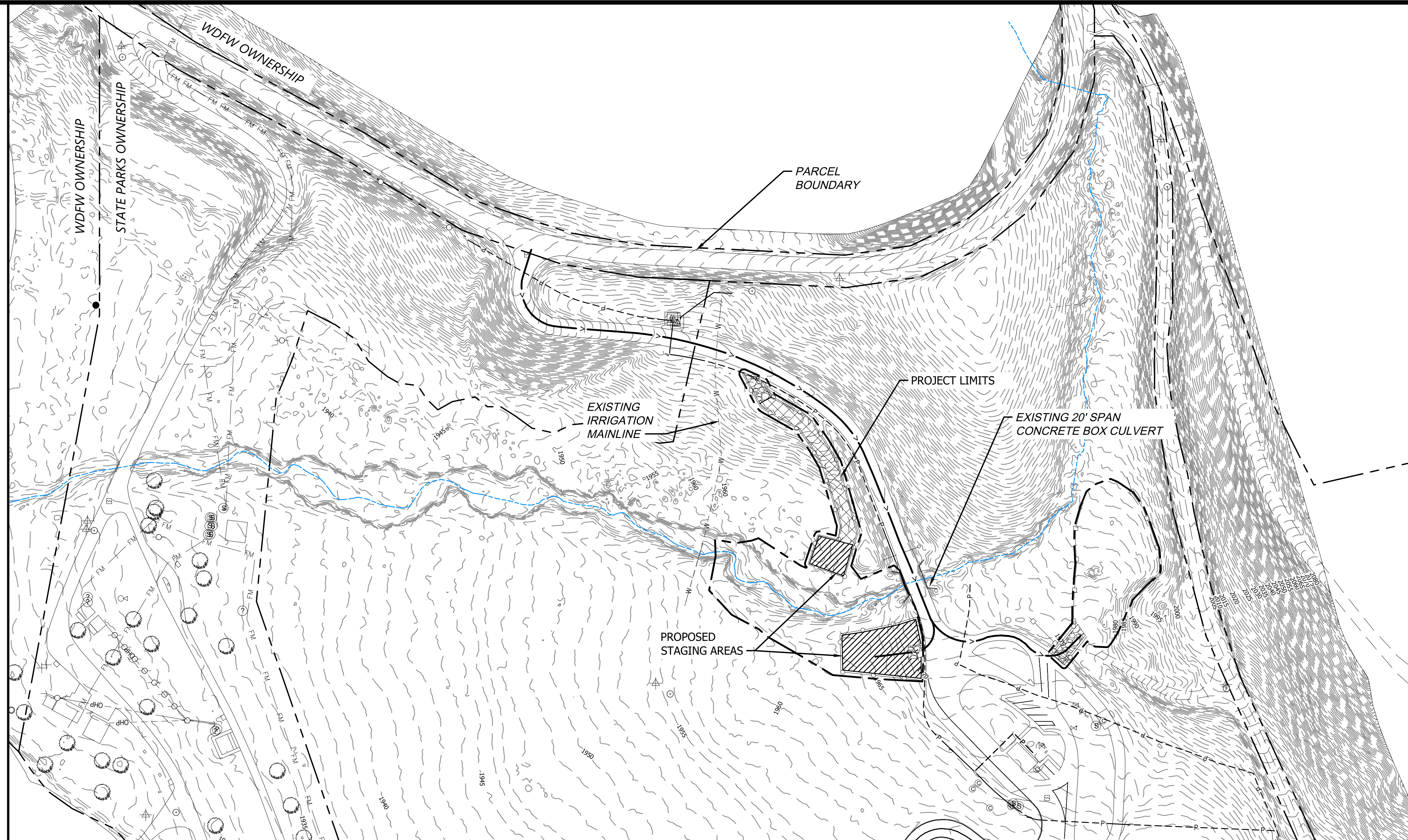
90% DESIGN

**LEGEND, EXISTING**

- PARCEL BOUNDARY
- EXISTING CONTOUR MAJOR (5' INTERVAL)
- EXISTING CONTOUR MINOR (1' INTERVAL)
- OHW --- EXISTING ORDINARY HIGH WATER (SEE NOTES)
- EXISTING THALWEG (SEE NOTES)
- OHP --- EXISTING OVERHEAD POWER LINE
- P --- EXISTING UNDERGROUND POWER LINE
- W --- EXISTING IRRIGATION MAIN LINE
- FM --- EXISTING FORCE MAIN (APPROXIMATE)
- ⊙ EXISTING SEWER UTILITY
- ⊙ EXISTING TREE

**LEGEND, PROPOSED**

- PROJECT LIMITS
- ACCESS ROUTE
- ▨ PROPOSED STAGING AREA
- ▩ PROPOSED CONSTRUCTION ACCESS ROUTE (SEE DETAIL, THIS SHEET)
- ⊙ PROPOSED CONSTRUCTION ENTRANCE (SEE DETAIL, THIS SHEET)
- PROPOSED HIGH VISIBILITY CONSTRUCTION FENCING (PER WSDOT STANDARD PLAN 1-10.10-01)
- TREE PROTECTION FENCING



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME		
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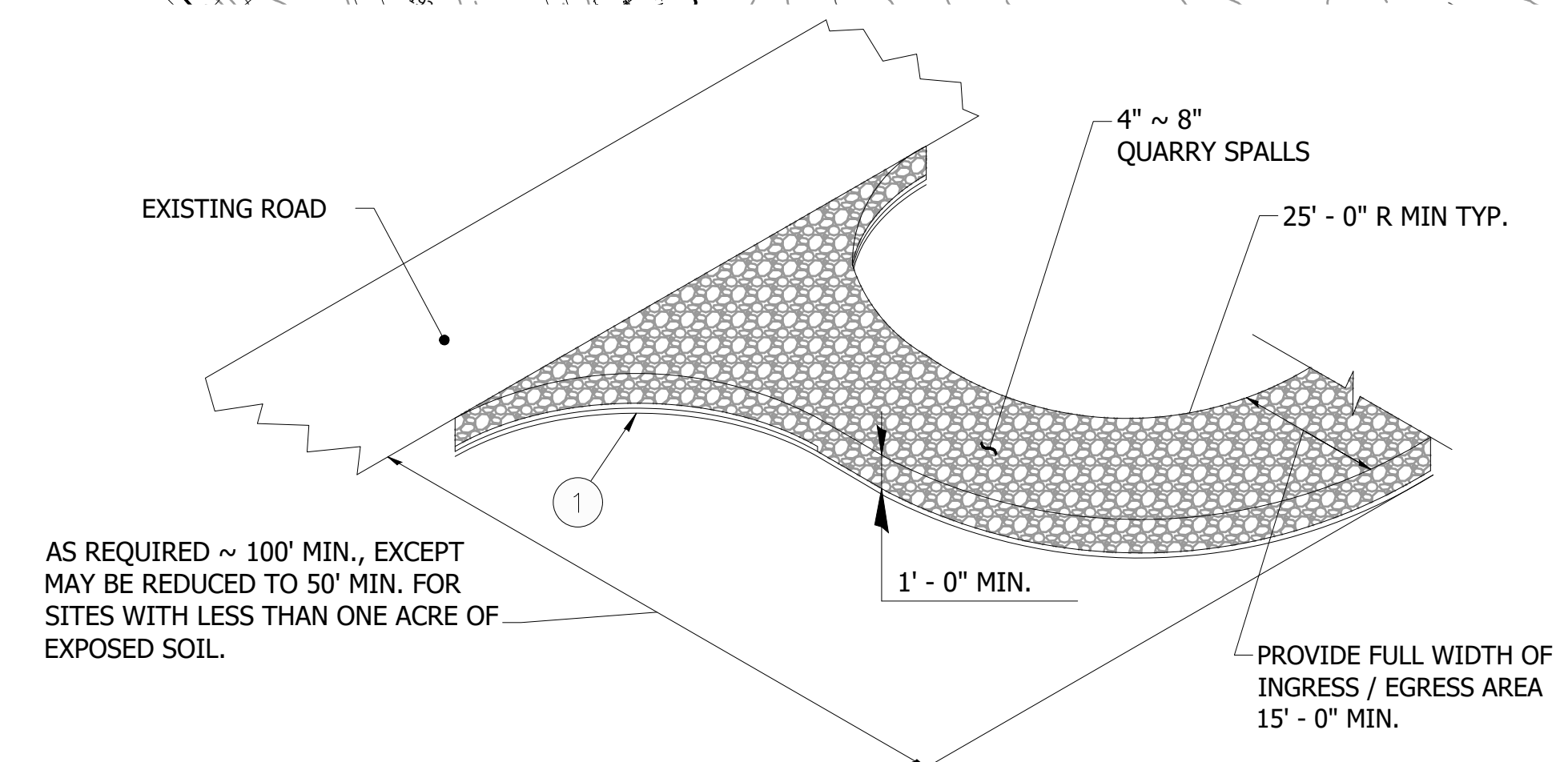
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WASHINGTON  
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COMMISSION

PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION  
  
ACCESS AND  
STAGING PLAN

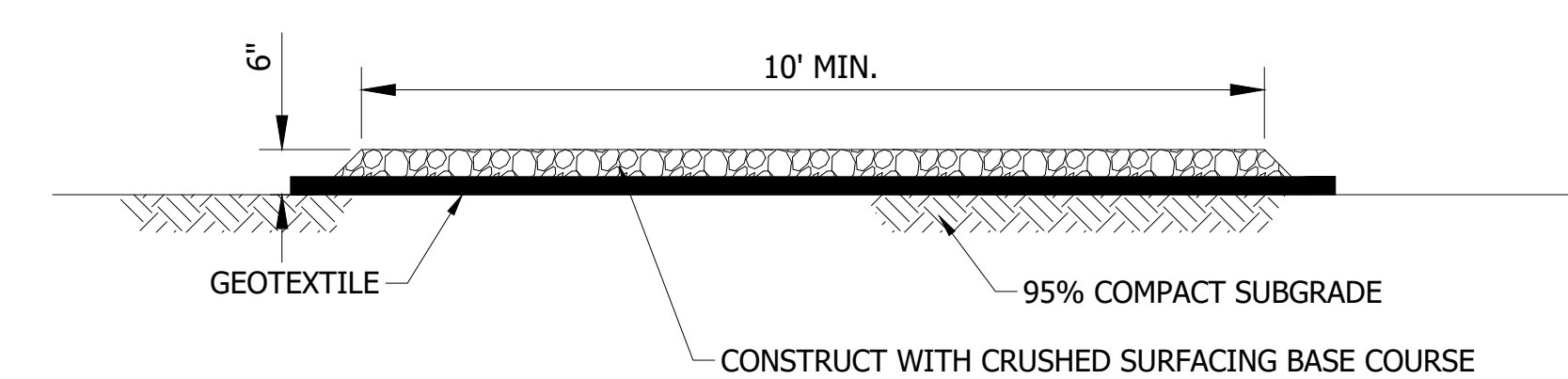
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**1" = 100'**  
PARKS FILE#

- NOTES:
- SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.



1. PLACE CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION AND A MINIMUM OF 0.15' CRUSHED ROCK UNDER THE SPALLS, FROM THE EDGE OF THE EXISTING ROADWAY TO THE RADIUS RETURNS, OR AS DIRECTED BY THE ENGINEER.

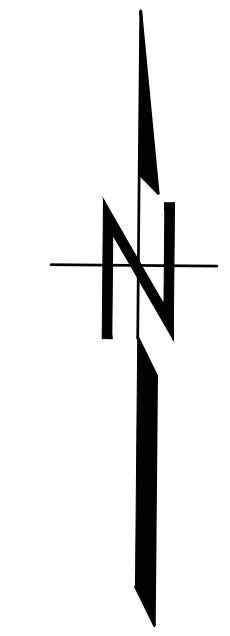
**1. STABILIZED CONSTRUCTION ENTRANCE**



- NOTES:
- ACCESS SHALL SUPPORT HS20 LOADING.

**2. CONSTRUCTION ACCESS TYPICAL SECTION**

K:\Projects\0363-1-WA State Parks\Pearrygin Lake State Park\Construction Plans\0363-Pl-Access.dwg Access and Staging Plan

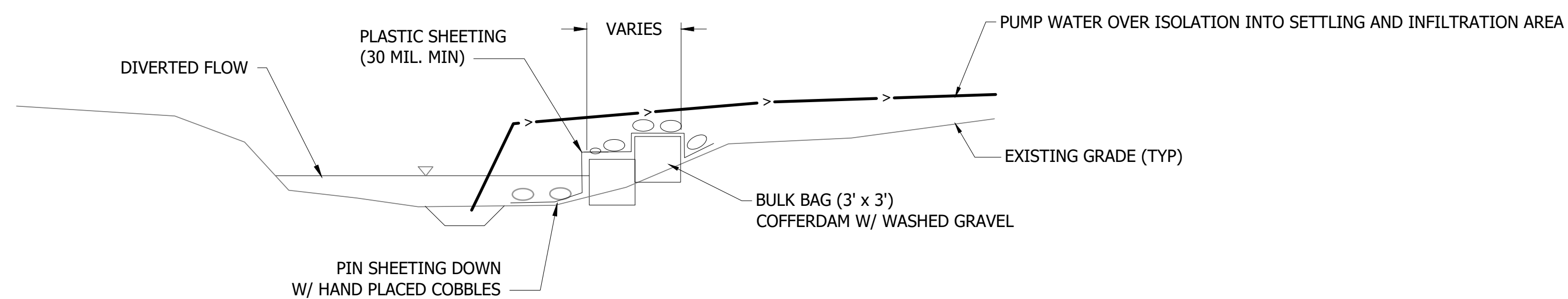
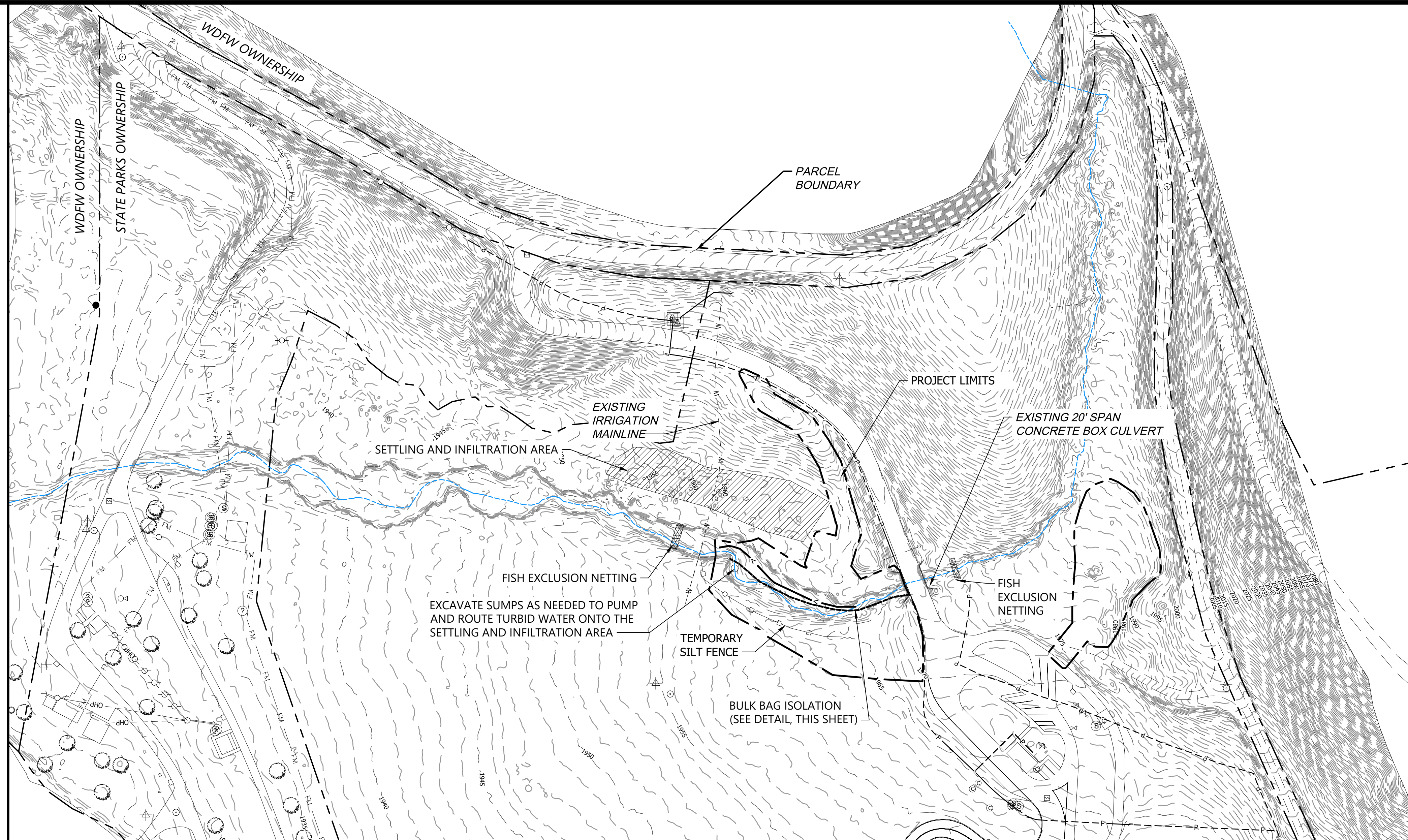


**LEGEND, EXISTING**

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- OHW --- EXISTING ORDINARY HIGH WATER (SEE NOTES)
- EXISTING THALWEG (SEE NOTES)
- OHP --- EXISTING OVERHEAD POWER LINE
- P --- EXISTING UNDERGROUND POWER LINE
- W --- EXISTING IRRIGATION MAIN LINE
- FM --- EXISTING FORCE MAIN (APPROXIMATE)
- ⊙ EXISTING SEWER UTILITY
- ⊙ EXISTING TREE

**LEGEND, PROPOSED**

- PROJECT LIMITS
- ▨ FISH EXCLUSION NETTING
- ▨ SETTling AND INFILTRATION AREA
- BULK BAG ISOLATION (SEE DETAIL, THIS SHEET)
- TEMPORARY SILT FENCE

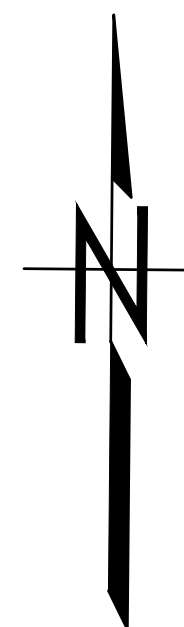
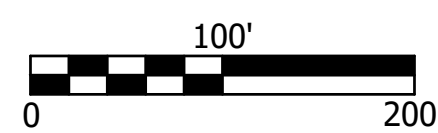


**TYPICAL SECTION: BULK BAG ISOLATION COFFERDAM**

**BULK BAG NOTES:**

1. BULK BAG COFFERDAM SHALL BE CONSTRUCTED OF SEVERAL UNITS OF BULK BAGS FILLED WITH WASHED GRAVEL AND ABUTTED SIDE BY SIDE TO CREATE A ROW THAT SEPARATES THE CONSTRUCTION SITE FROM THE CREEK.
2. BULK BAG COFFERDAM SHALL BE SEALED BY COVERING THE COFFERDAM WITH PLASTIC SHEETING HELD IDOWN BY HAND PLACED COBBLES IN ROWS ON TOP OF COFFERDAM, AND AT TOE OF COFFERDAM. THE PLASTIC SHEETING SHALL BE DRAPED ALONG THE CHANNEL BOTTOM ON BOTH SIDES OF THE COFFERDAM WITH OUTWARD EDGE OF SHEETING MINIMUM 2- FEET FROM TOE OF COFFERDAM. THE DRAPED PORTION OF PLASTIC SHEETING SHALL BE PINNED TO THE CHANNEL BED BY MINIMUM TWO ROWS OF LARGE COBBLES.
3. IF POSSIBLE, THE ENDS OF THE COFFERDAM SHALL BE EXTENDED ONTO A DRY GRAVEL BAR. IF THE END MUST BE TERMINATED AT A WET RIVER BANK, THE COFFERDAM SHALL BE TIGHTLY SEALED TO THE GROUND BY PLASTIC SHEETING AND LARGE COBBLES. MULTIPLE LAYERS OF SHEETING AND COBBLES MAY BE REQUIRED TO FORM A WATERTIGHT SEAL.
4. BULK BAGS SHALL BE WATERPROOF CUBE-SHAPED POLYPROPYLENE WOVEN FABRIC BAGS WITH FULLY OPEN TOP, FLAT BOTTOM, FOUR LOOPS, MINIMUM 2-TON WEIGHT CAPACITY, MINIMUM 5:1 SAFETY FACTOR.
5. PLASTIC SHEETING SHALL BE MINIMUM 6-MIL THICKNESS. ROLL LENGTH SHALL BE LONG ENOUGH TO ENSURE THAT ENTIRE LENGTH OF COFFERDAM WILL BE COVERED WITHOUT A SEAM. TWO LENGTHS OF 12-FT WIDE ROLL SHALL BE USED FOR 2-LAYER STACKED BULK BAG COFFERDAM.
6. BULK BAG COFFERDAM SHALL BE COMPLETELY REMOVED AFTER CONSTRUCTION IS COMPLETED AND TURBIDITY HAS BEEN REMOVED.
7. ALTERNATE COFFERDAM MATERIALS AND CONFIGURATIONS MAY BE ALLOWED BUT SHALL NOT BE IMPLEMENTED WITHOUT REVIEW AND APPROVAL BY THE OWNER. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND/OR VENDOR CUT SHEETS FOR SUBSTITUTIONS.
8. IF NECESSARY, GAPS BETWEEN BULK BAGS SHALL BE FILLED WITH WASHED GRAVEL TO SEAL AND IMPROVE COFFER DAM. DISPOSAL OF ROCK WASH SHALL BE DETERMINED BY OWNER.

- NOTES:
1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.
  2. THIS PLAN IS CONCEPTUAL ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AND IMPLEMENTING THE CARE OF WATER PLAN.



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WASHINGTON  
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PEARRYGIN LAKE  
STATE PARK

CREEK CHANNEL  
STABILIZATION

CARE OF WATER  
PLAN

SCALE

1" = 100'

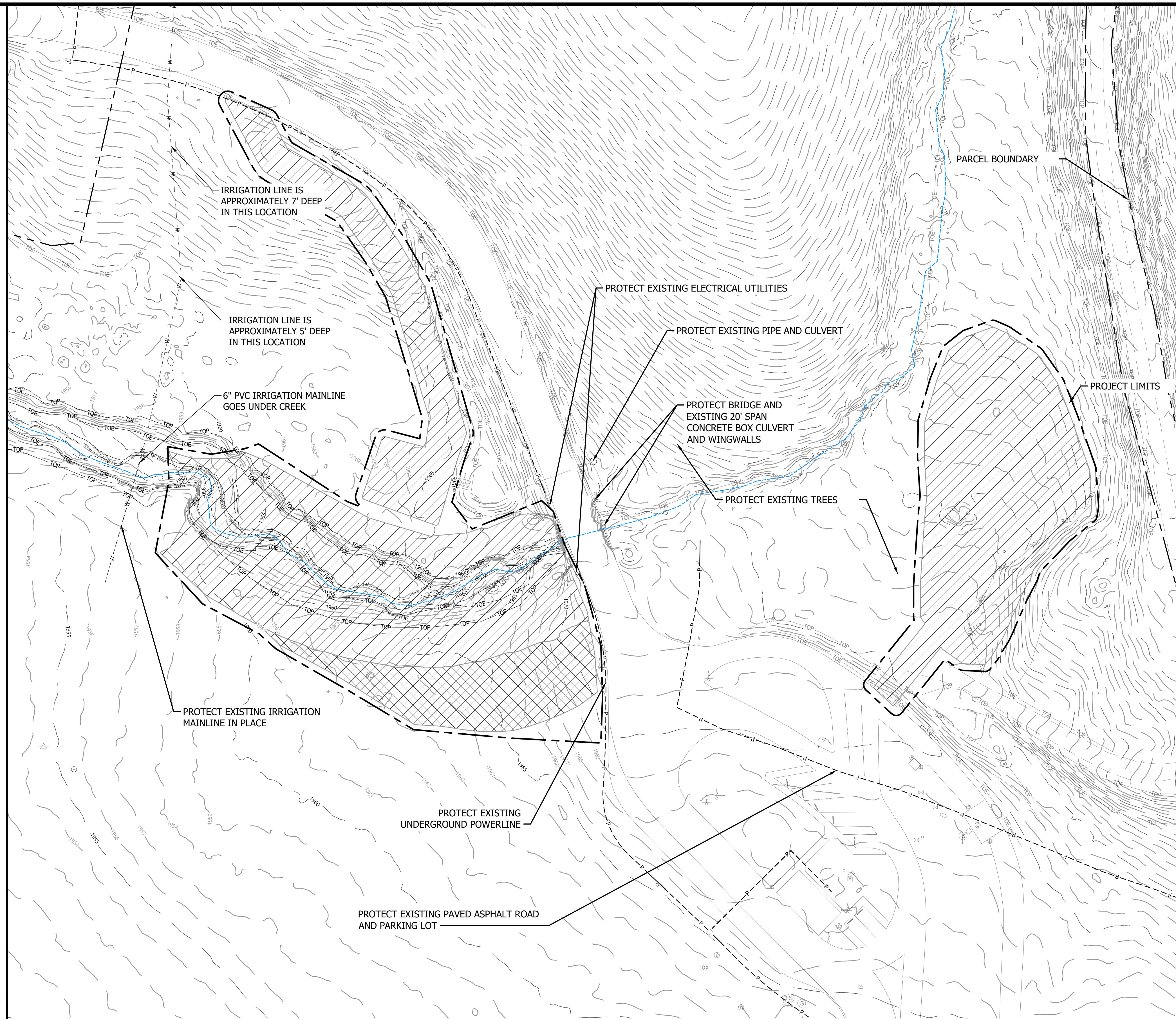
SHEET 7 OF 16

90% DESIGN

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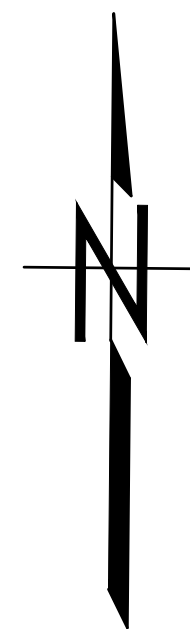
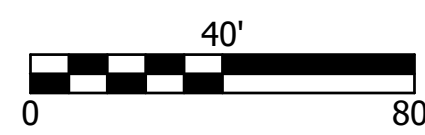
**CLEARING LEGEND:**

- PROJECT LIMITS
- PARCEL BOUNDARY
- EXISTING CONTOUR MAJOR (5' INTERVAL)
- EXISTING CONTOUR MINOR (1' INTERVAL)
- TOP --- EXISTING TOP OF SLOPE
- TOE --- EXISTING TOE OF SLOPE
- OHW --- EXISTING ORDINARY HIGH WATER (SEE NOTE 3)
- EXISTING THALWEG (SEE NOTE 3)
- EXISTING OVERHEAD POWER LINE
- EXISTING UNDERGROUND POWER LINE
- EXISTING IRRIGATION MAIN LINE
- FM --- EXISTING FORCE MAIN (APPROXIMATE)
- Ⓢ --- EXISTING SEWER UTILITY
- ▨ CLEAR AND GRUB LIMITS
- ▩ INVASIVE PLANT REMOVAL AND NATIVE PLANT PROTECTION AREA



**NOTES:**

1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.
2. CONTRACTOR SHALL REMOVE ALL TREES WITHIN PROJECT LIMITS. TREES THAT MEET SPECIFICATIONS FOR LWM MAY BE SALVAGED FOR REUSE.



K:\Projects\0363-1 WA State Parks\Pearrygin Lake State Park\Construction Plans\0363-PL-Clearing and Removal Plan.dwg CLEARING AND REMOVAL PLAN Apr 30, 2024 4:44pm chewartt



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
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	INT.
	REVISIONS
	NO.

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DESIGNED	AS	04/30/2024
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CHECKED (FIELD)	XXX	XX/XX/XXXX
CHECKED (HDQTS.)	XXX	XX/XX/XXXX

REGISTERED STAMP

WASHINGTON  
STATE  
PARKS  
AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK

CREEK CHANNEL  
STABILIZATION

CLEARING AND  
REMOVAL PLAN

SCALE

1" = 40'

SHEET 8 OF 16

90% DESIGN

PARKS FILE#



**LEGEND, EXISTING:**

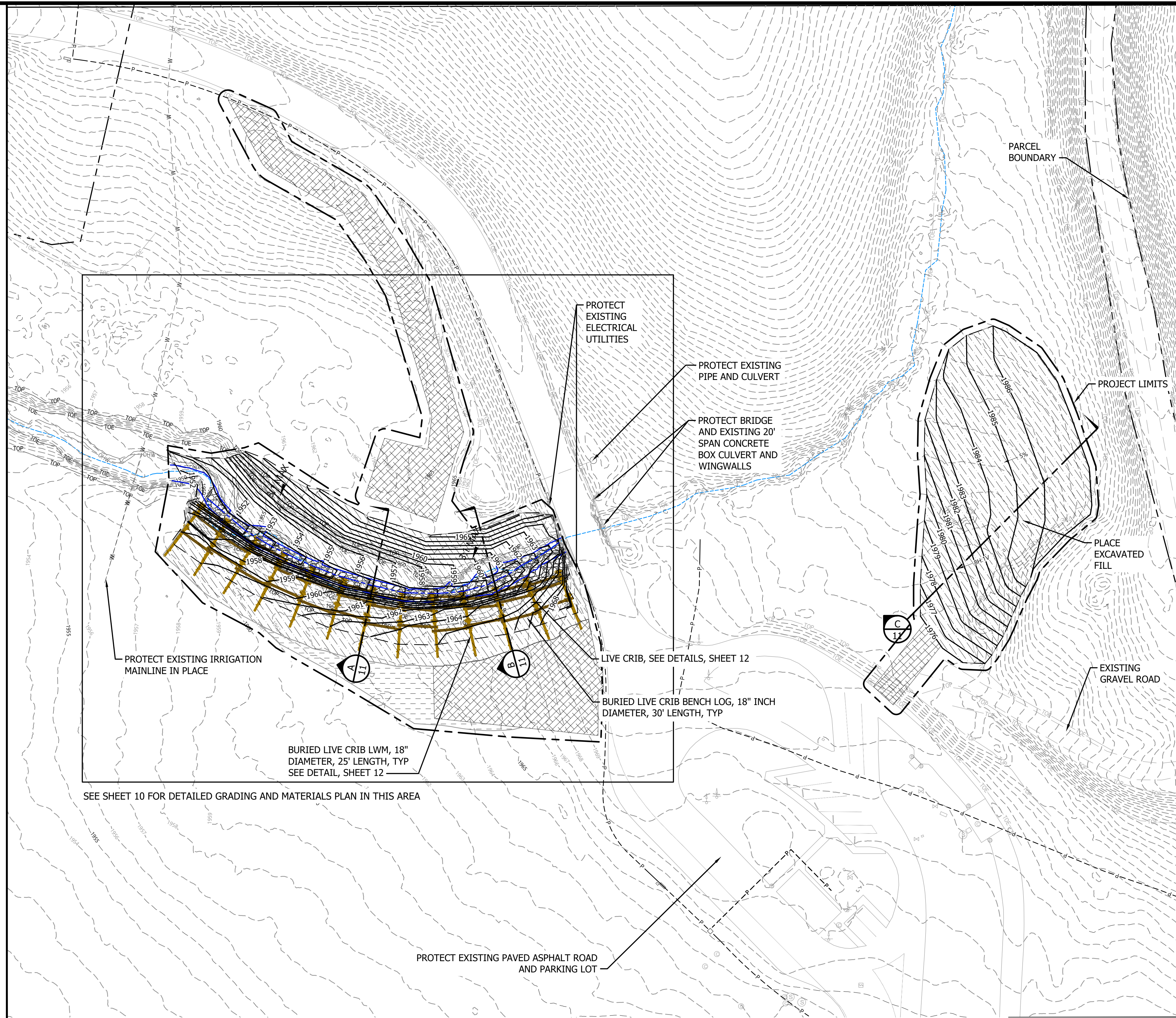
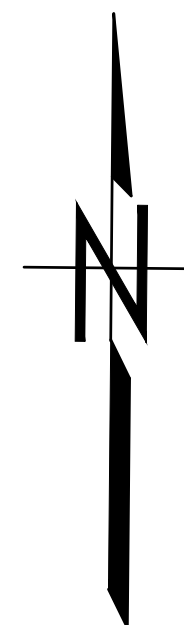
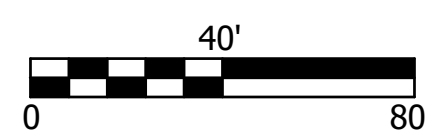
- PROJECT LIMITS
- PARCEL BOUNDARY
- EXISTING CONTOUR MAJOR (5' INTERVAL)
- EXISTING CONTOUR MINOR (1' INTERVAL)
- TOP --- EXISTING TOP OF SLOPE
- TOE --- EXISTING TOE OF SLOPE
- OHW --- EXISTING ORDINARY HIGH WATER (SEE NOTE 3)
- EXISTING THALWEG (SEE NOTE 3)
- PROPOSED THALWEG
- PROPOSED 2 YEAR FLOOD LINE
- OHP --- EXISTING OVERHEAD POWER LINE
- P --- EXISTING UNDERGROUND POWER LINE
- W --- EXISTING IRRIGATION MAIN LINE
- FM --- EXISTING FORCE MAIN (APPROXIMATE)
- Ⓢ --- EXISTING SEWER UTILITY

**LEGEND, PROPOSED:**

- GRADING LIMITS
- PROPOSED CONTOURS (1' AND 5' INTERVAL)
- AMEND EXISTING SOIL WITH 3" COMPOST
- INSTALL 6" SALVAGED TOPSOIL
- IMPORTED STREAMBED GRAVEL
- DECOMPACT AREAS IMPACTED BY TEMPORARY ACCESS AND STAGING, INSTALL 3 INCHES OF COMPOST
- NEW LARGE WOODY MATERIAL
- NEW LIVE CRIB BENCH LOG

**NOTES:**

1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.
2. SEE SHEET 5 FOR FUTURE IMPROVEMENTS.



SEE SHEET 10 FOR DETAILED GRADING AND MATERIALS PLAN IN THIS AREA

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
	REVISIONS
	NO.

ACTION	BY	DATE
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REGISTERED STAMP

WASHINGTON  
STATE  
PARKS  
AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK

CREEK CHANNEL  
STABILIZATION

GRADING AND  
MATERIALS PLAN

SCALE

1" = 40'

SHEET 9 OF 16

90% DESIGN

PARKS FILE#



**LEGEND, EXISTING:**

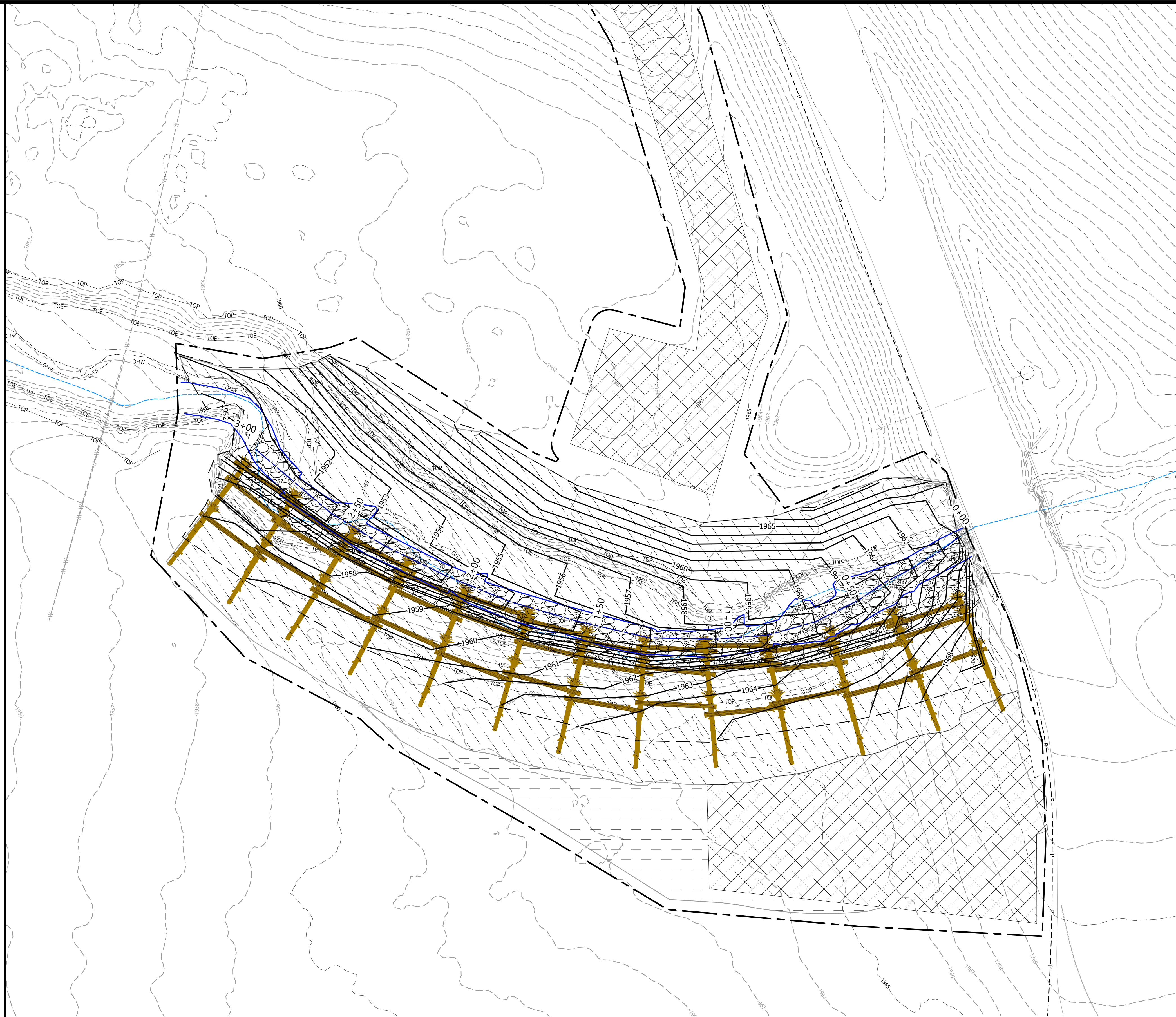
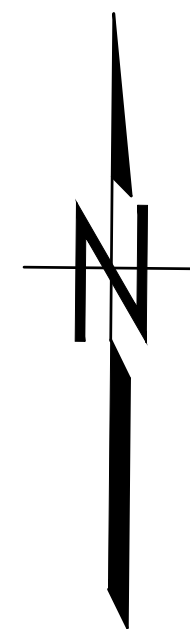
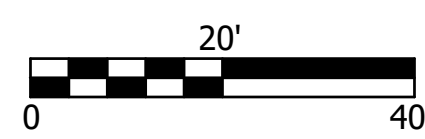
- PROJECT LIMITS
- PARCEL BOUNDARY
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- TOP --- EXISTING TOP OF SLOPE
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- PROPOSED THALWEG
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- FM --- EXISTING FORCE MAIN (APPROXIMATE)
- Ⓢ --- EXISTING SEWER UTILITY

**LEGEND, PROPOSED:**

- GRADING LIMITS
- PROPOSED CONTOURS (1' AND 5' INTERVAL)
- AMEND EXISTING SOIL WITH 3" COMPOST
- INSTALL 6" SALVAGED TOPSOIL
- STREAMBED COBBLES
- DECOMPACT AREAS IMPACTED BY TEMPORARY ACCESS AND STAGING, INSTALL 3 INCHES OF COMPOST
- NEW LARGE WOODY MATERIAL
- NEW LIVE CRIB BENCH LOG

NOTES:

1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.
2. SEE SHEET 5 FOR FUTURE IMPROVEMENTS.



CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

	DATE
	APP.
	INT.
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CHECKED (HDQTS.)	XXX	XX/XX/XXXX

REGISTERED STAMP

WASHINGTON  
STATE  
PARKS  
AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK

CREEK CHANNEL  
STABILIZATION

CHANNEL GRADING  
AND MATERIALS  
DETAIL PLAN

SCALE  
1" = 20'

PARKS FILE#

SHEET 10 OF 16

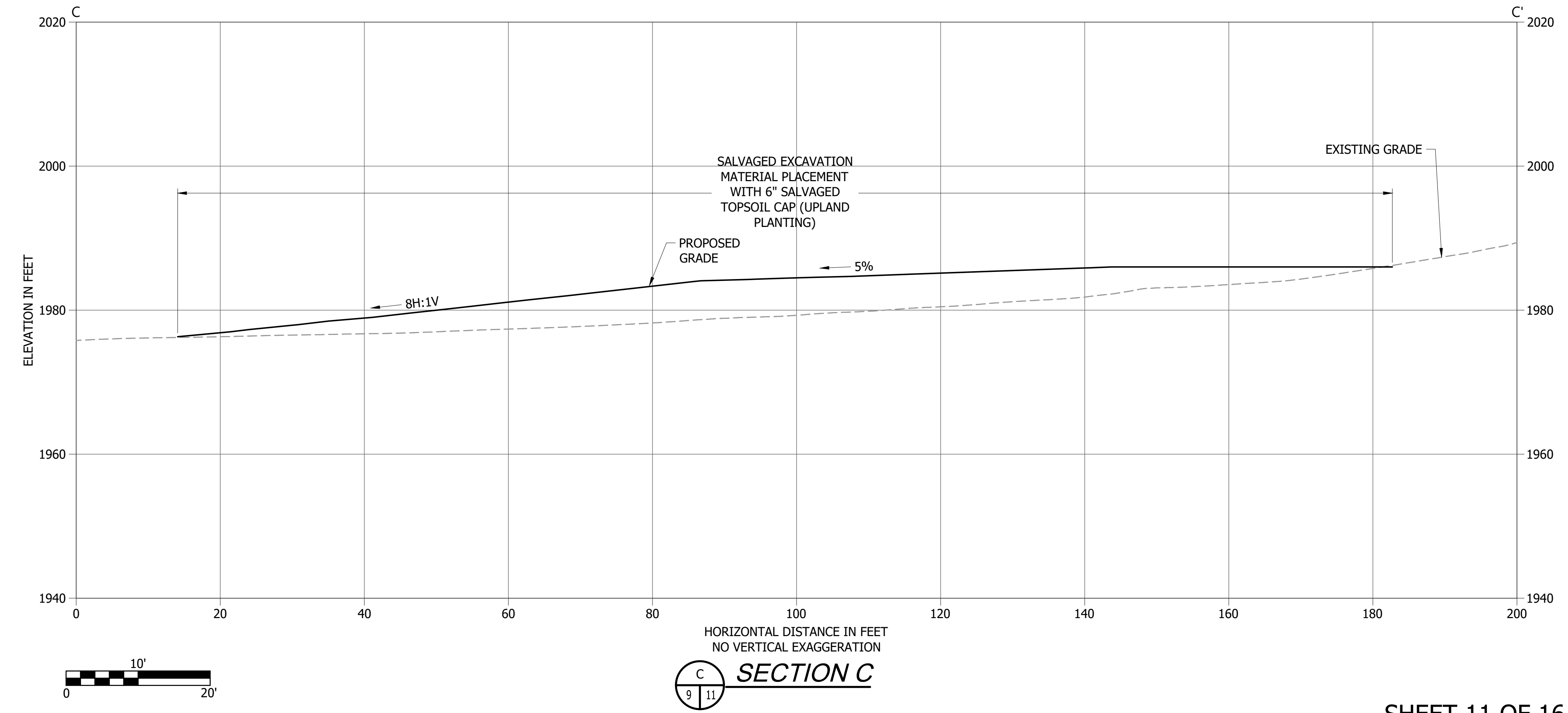
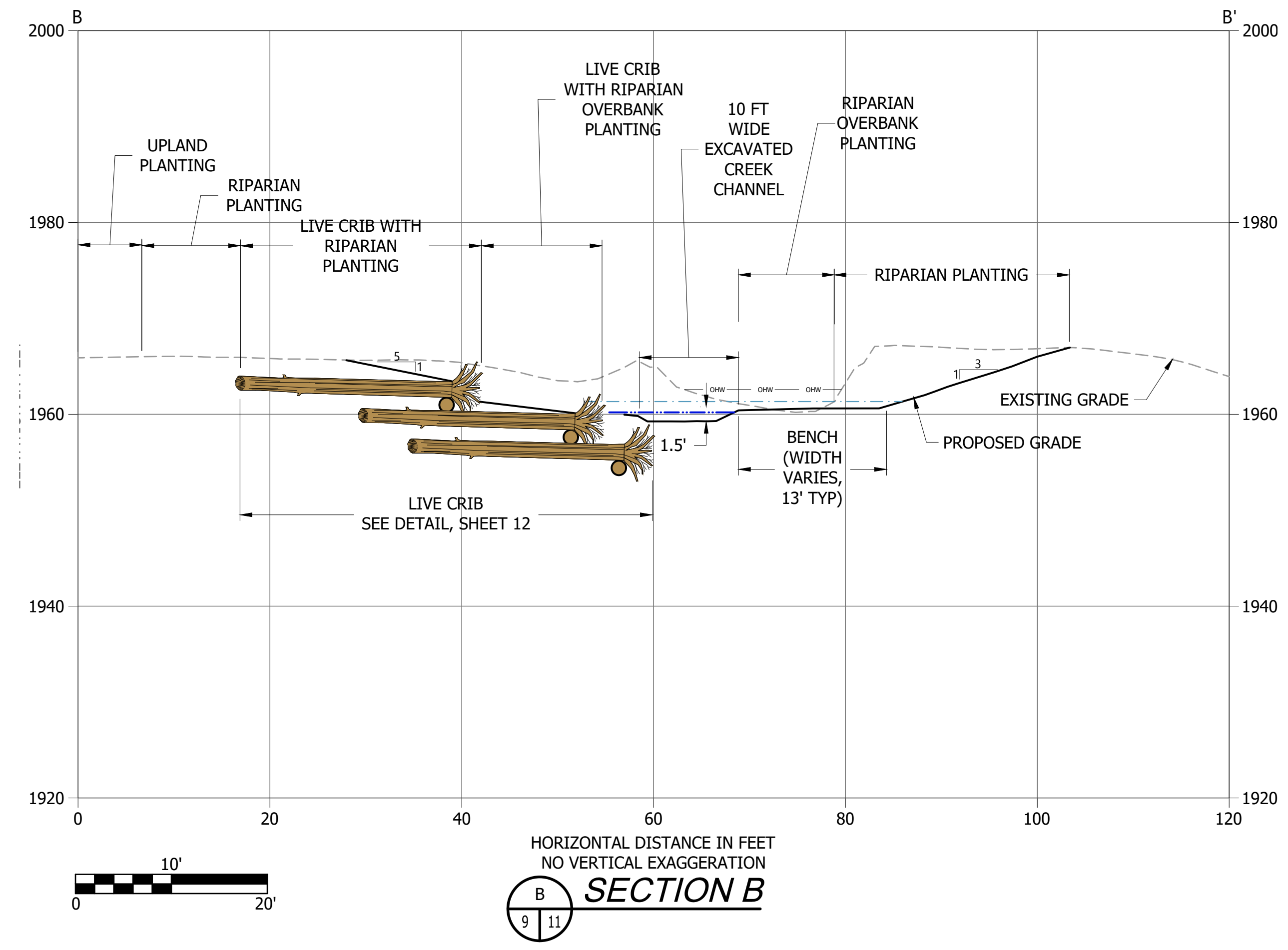
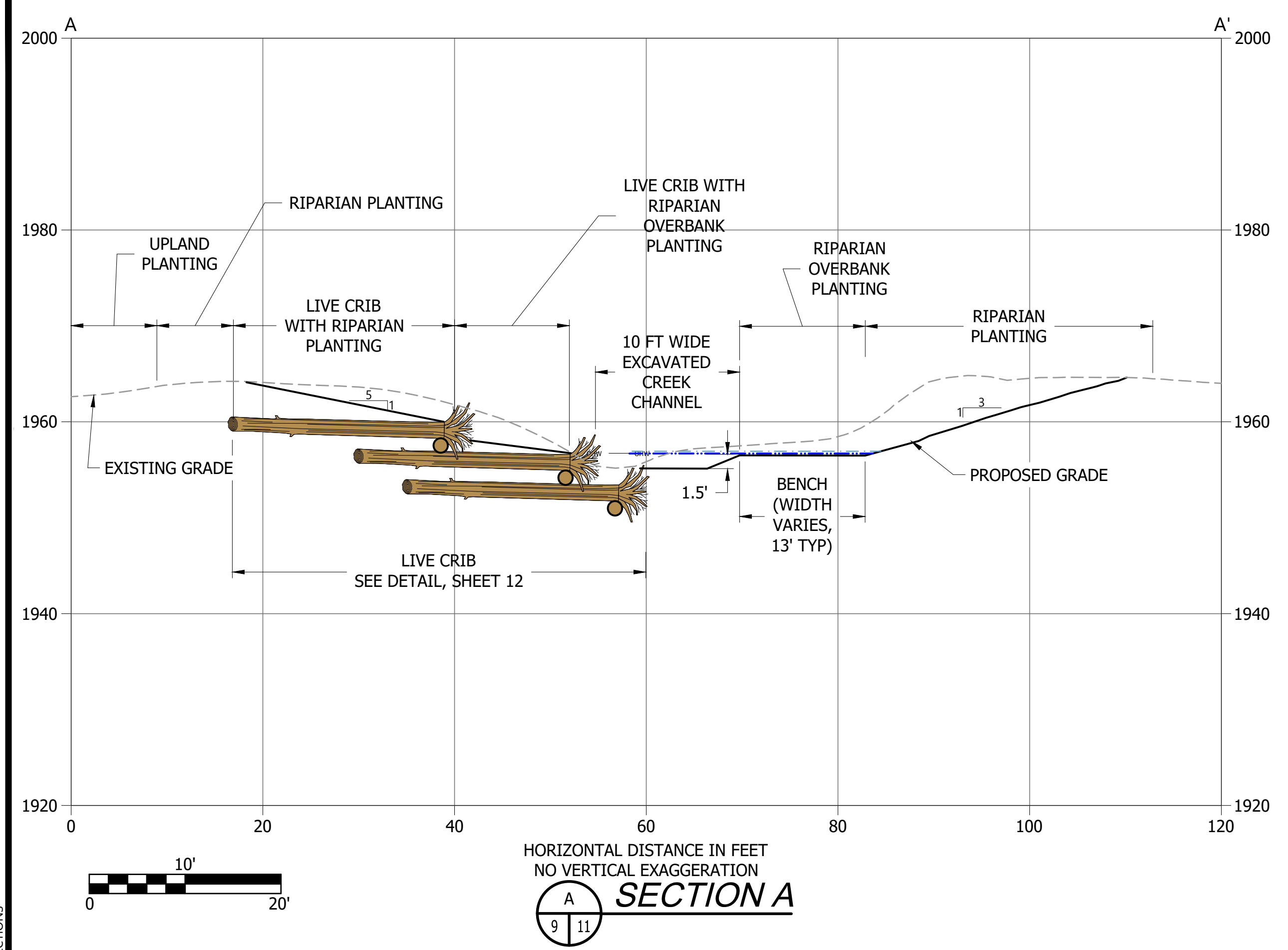
90% DESIGN

K:\Projects\0363-1 WA State Parks\Pearrygin Lake State Park\Construction Plans\0363-PL-Grading and Materials.dwg CHANNEL GRADING AND MATERIALS DETAIL PLAN



Apr 30, 2024 4:44pm chewart

K:\Projects\0363-1 WA State Parks\Pearygin Lake State Park\Construction Plans\0363-PL-Grading and Materials Sections.dwg GRADING AND MATERIALS SECTIONS



**GRADING LEGEND:**

- EXISTING GRADE
- PROPOSED GRADE
- OHW — EXISTING OHW
- PROPOSED 2 YEAR FLOOD LINE
- PROPOSED 100 YEAR FLOOD LINE

CAD NO.	PARKCODE-PROJECTCODE-YEAR-FILENAME	
DATE		
APP.		
INT.		
REVISIONS		
NO.		
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CHECKED (HDQTS.)	XXX	XX/XX/XXXX

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION

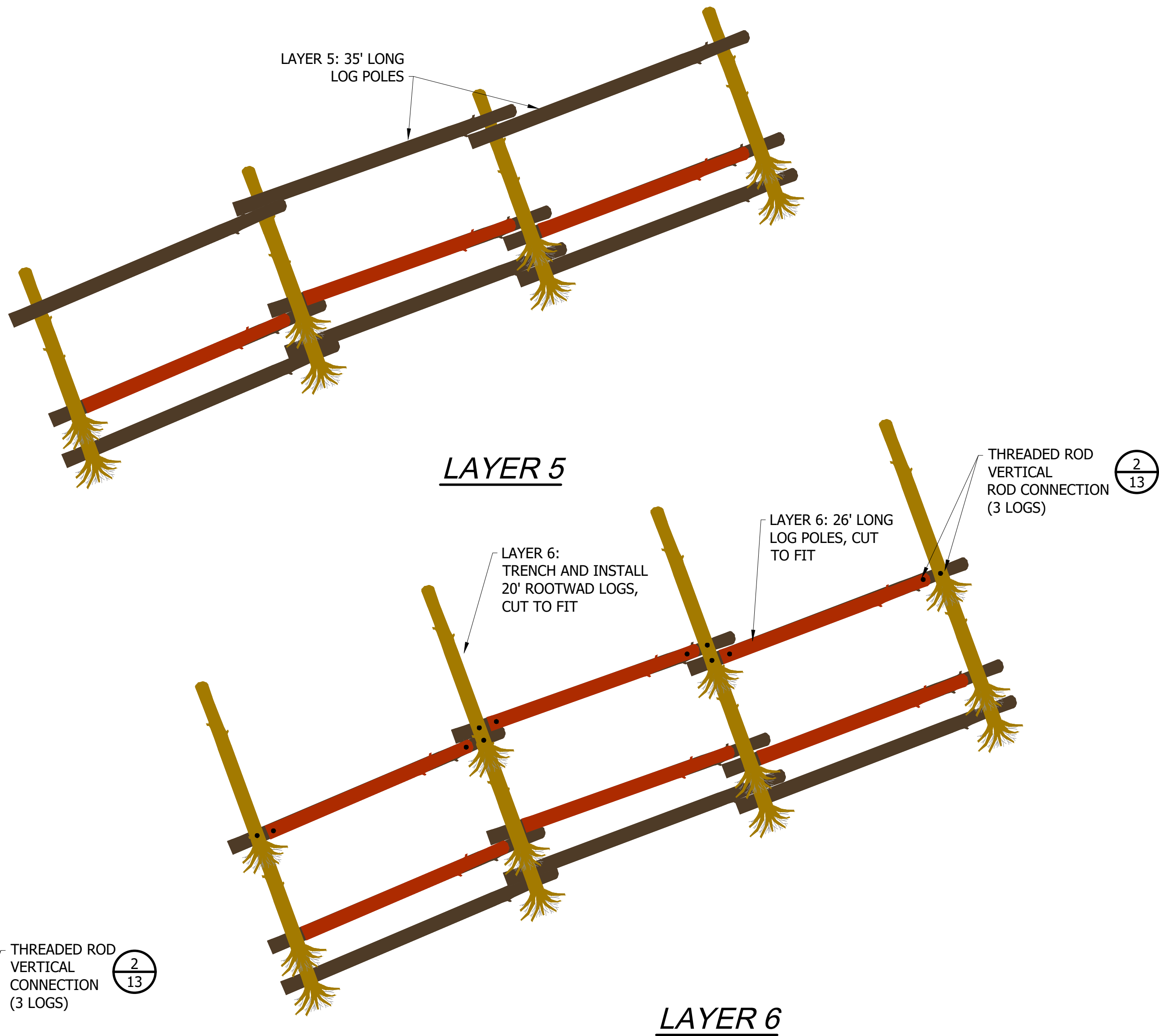
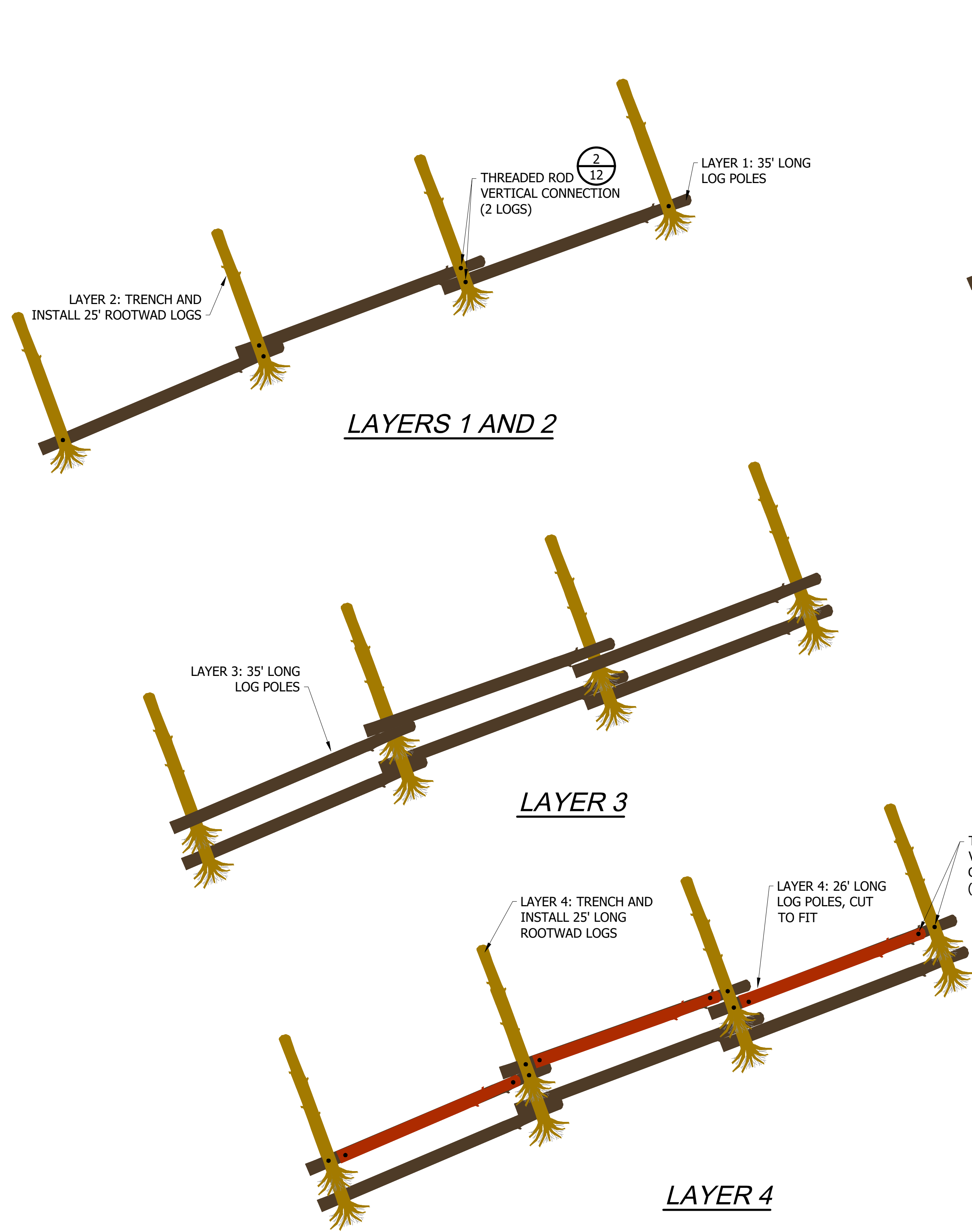
PEARRYGIN LAKE STATE PARK  
 CREEK CHANNEL STABILIZATION  
 GRADING AND MATERIALS SECTIONS

SCALE  
 1" = 10'

PARKS FILE#



K:\Projects\0363-WA State Parks\Pearygin Lake State Park\Construction Plans\0363-PL-Construction Details.dwg LIVE CRIB DETAILS (1 OF 2)



1 LIVE CRIB TYPICAL LAYER CONFIGURATION  
SCALE: 1" = 10'

CAD NO. PARKCODE-PROJECTCODE-YEAR-FILENAME

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DRAWN	CH	04/30/2024
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REGISTERED STAMP

WASHINGTON  
STATE  
PARKS  
AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK

CREEK CHANNEL  
STABILIZATION

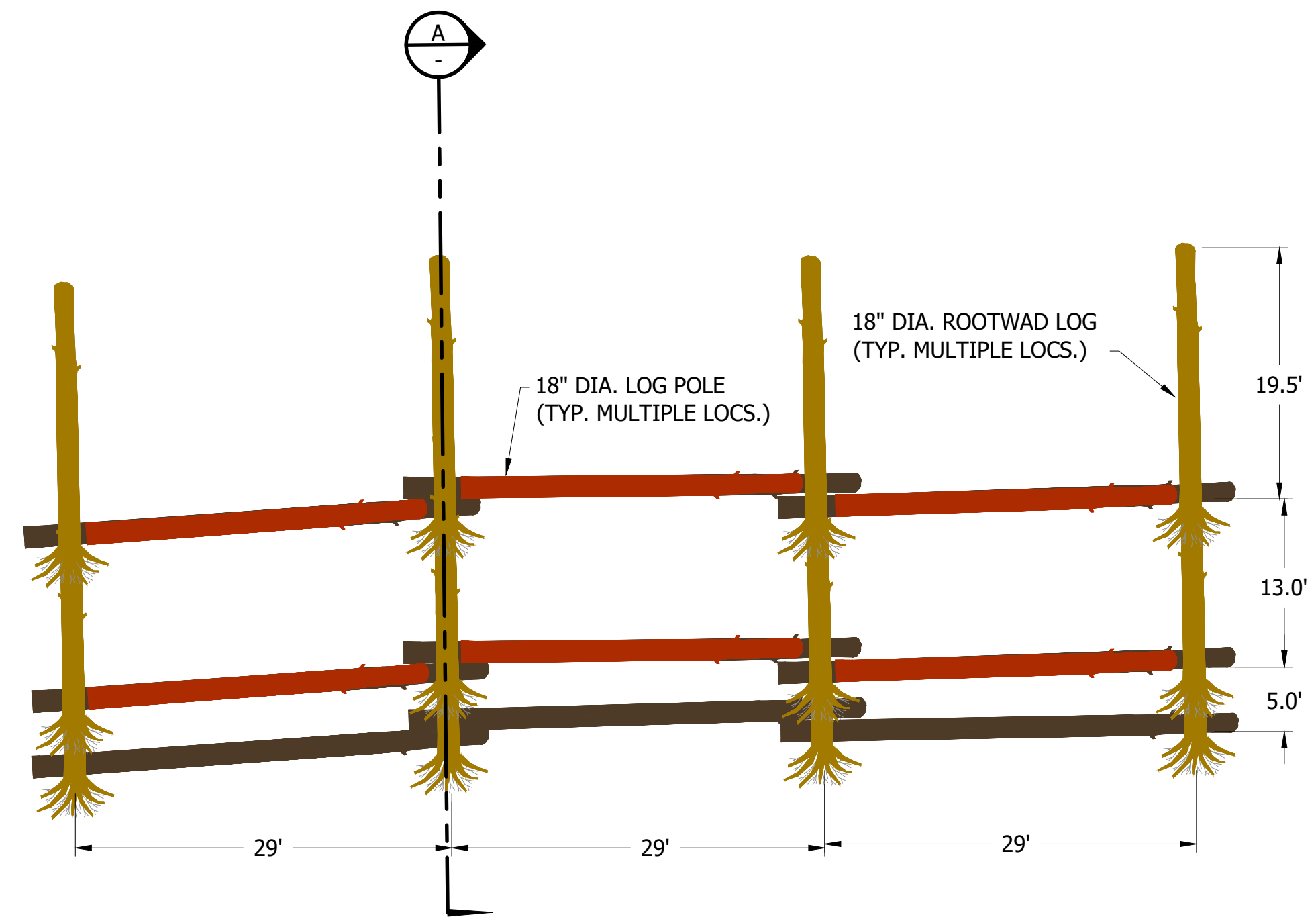
LIVE CRIB DETAILS  
(1 OF 2)

SCALE

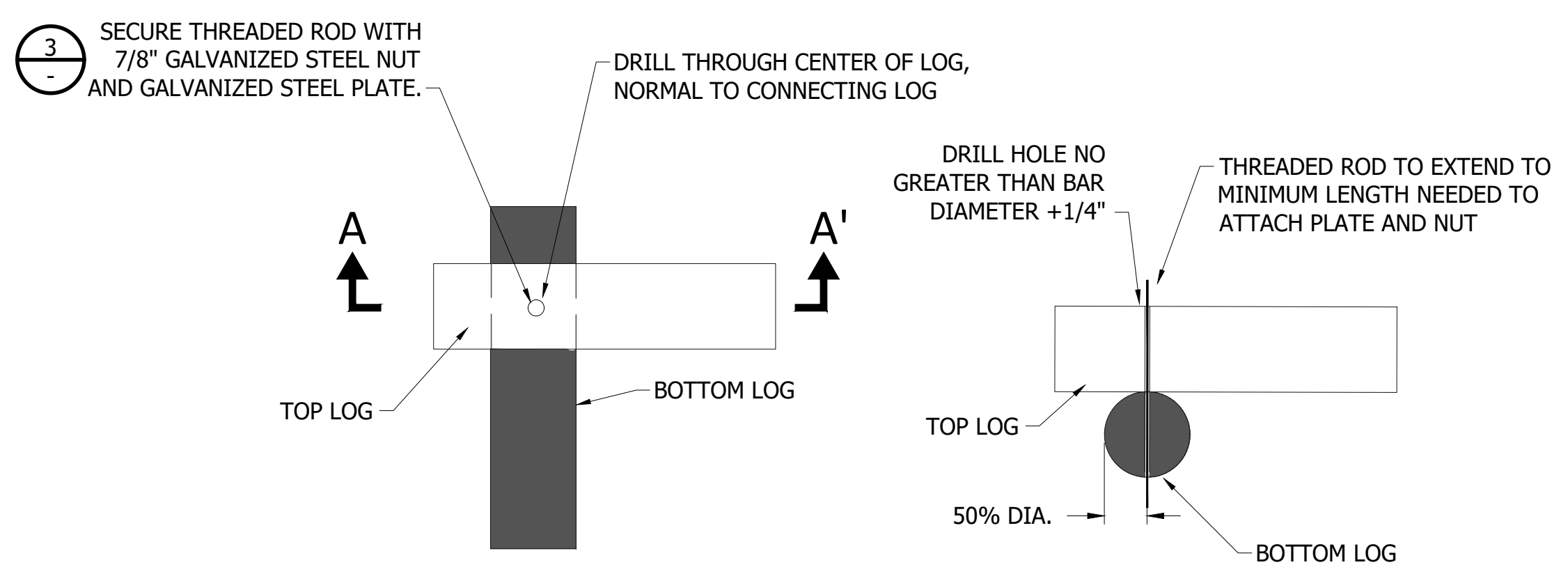
SHEET 12 OF 16

PARKS FILE#

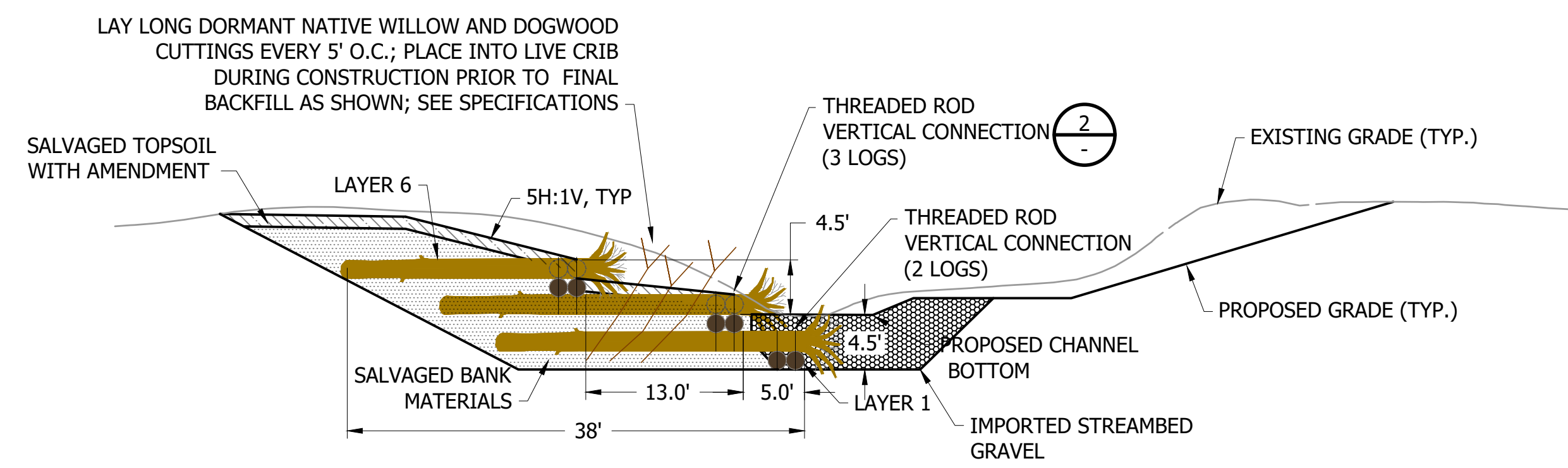
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DRAWN	CH	04/30/2024
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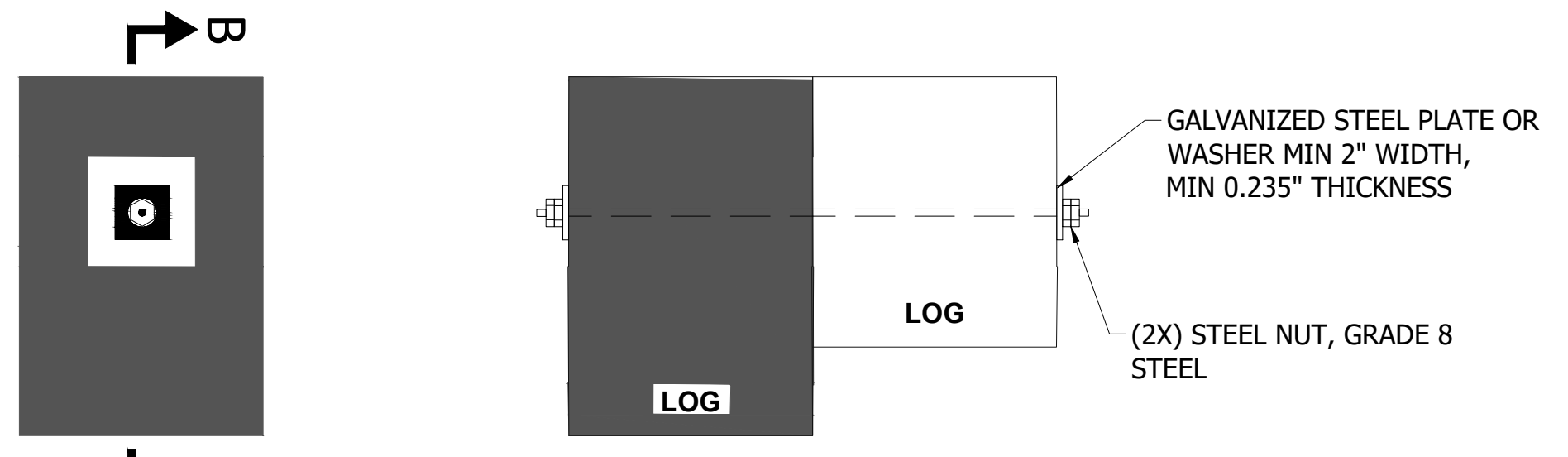
**1** LIVE CRIB TYPICAL PLAN VIEW  
SCALE: 1" = 10'



**2** THREADED ROD VERTICAL CONNECTION  
SCALE: NTS



**A** LIVE CRIB TYPICAL SECTION  
SCALE: 1" = 10'



**3** THREADED ROD WASHER AND NUT CONNECTION  
SCALE: NTS

LOG SIZES			
ITEM	LOG DIA (IN.)	MIN. LENGTH (FT.)	ROOTWAD DIA (IN.)
ROOTWAD LOG	18	25	48
LOG POLE	18	35	N/A

REGISTERED STAMP

WASHINGTON  
STATE  
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AND  
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COMMISSION

PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION  
  
LIVE CRIB DETAILS  
(2 OF 2)

SCALE

PARKS FILE#



**LEGEND, EXISTING:**

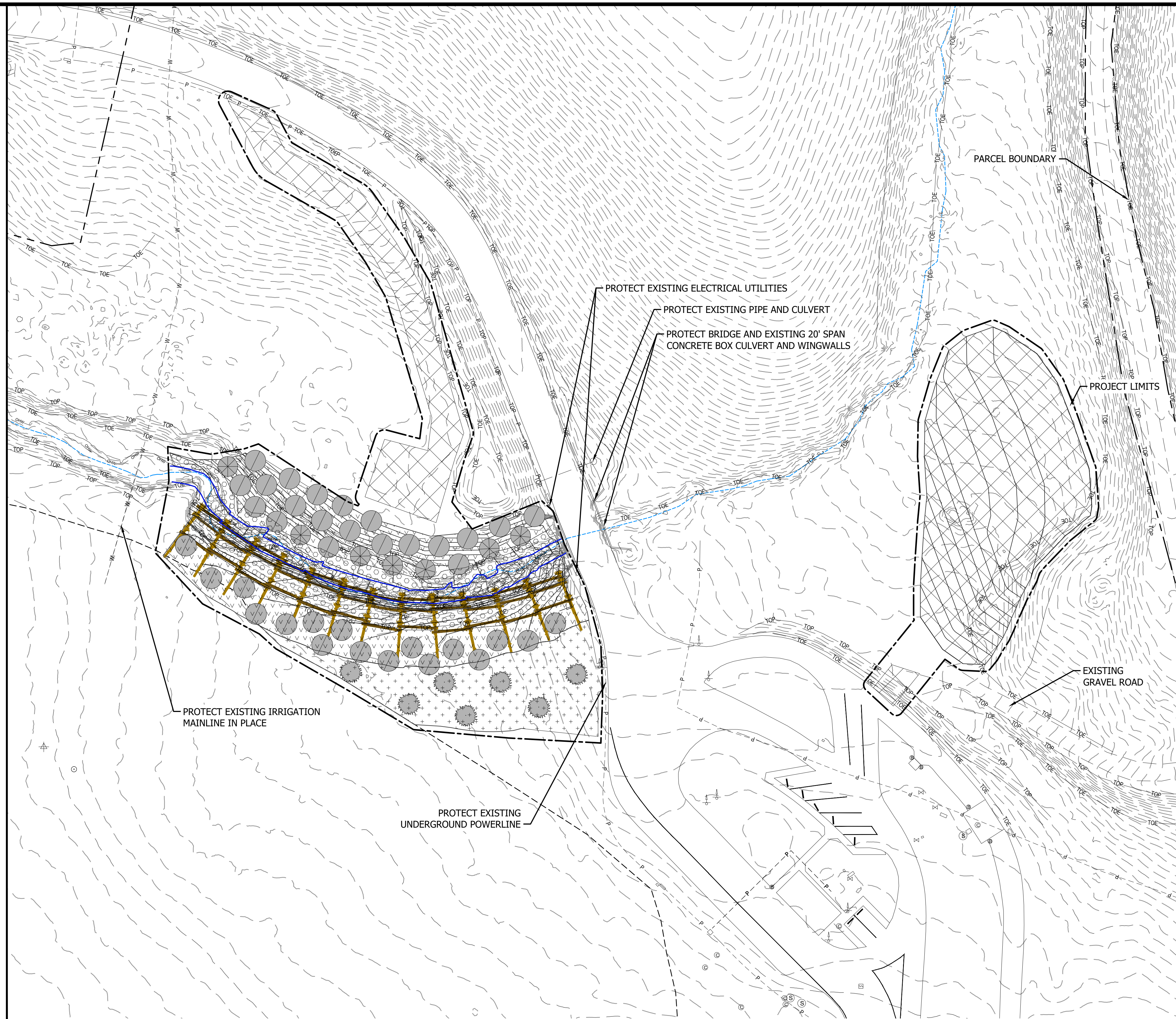
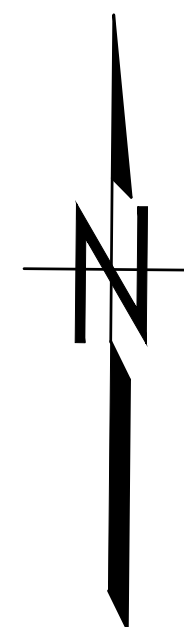
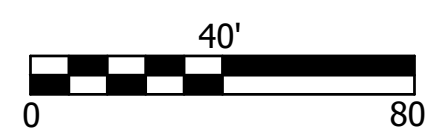
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- FM --- EXISTING FORCE MAIN (APPROXIMATE)
- Ⓢ --- EXISTING SEWER UTILITY

**LEGEND, PROPOSED:**

- PROJECT LIMITS
- PROPOSED CONTOUR (1' AND 5' INTERVAL)
- ○ ○ ○ ○ NEW OVERBANK RIPARIAN PLANTING
- ▽ ▽ ▽ ▽ ▽ NEW RIPARIAN PLANTING
- + + + + + NEW UPLAND/SHRUB-STEPPE PLANTING
- ⊠ ⊠ ⊠ ⊠ ⊠ UPLAND/SHRUB-STEPPE HYDROSEED
- NEW LARGE WOODY MATERIAL
- NEW CRIB BENCH LOG
- ● ● ● ● NEW TREE

**NOTES:**

1. SEE SHEET 3 FOR SURVEY AND GENERAL NOTES.



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REGISTERED STAMP

WASHINGTON  
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AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION  
  
PLANTING PLAN

SCALE











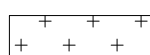
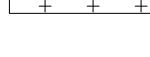


1" = 40'

SHEET 14 OF 16

90% DESIGN

PARKS FILE#

**PLANT SCHEDULE**

SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	QUANTITIES	NOTES	DETAIL
TREES						
 POPULUS BALSAMIFERA	BLACK COTTONWOOD	POLE	AS SHOWN	7	PLANT IN RIPARIAN PLANTING AREA	3 16
 POPULUS TREMULOIDES	QUAKING ASPEN	5 GAL.	AS SHOWN	37	PLANT IN RIPARIAN TRANSITION	
 PINUS PONDEROSA	PONDEROSA PINE	5 GAL.	AS SHOWN	7	PLANT IN UPLAND/SHRUB-STEPPE	
RIPARIAN BANK AND OVERBANK PLANTING						
 CORNUS STOLONIFERA	REDOSIER DOGWOOD	LIVE STAKE	2' O.C.	389	CLUSTER SPECIES IN GROUPS OF 5-7	1, 2 16
 SALIX BEBBIANA	BEBB'S WILLOW	LIVE STAKE	2' O.C.	389	CLUSTER SPECIES IN GROUPS OF 5-7	
 SALIX EXIGUA	NARROWLEAF WILLOW	LIVE STAKE	2' O.C.	389	CLUSTER SPECIES IN GROUPS OF 5-7	
 SALIX SCOULERIANA	SCOUER WILLOW	LIVE STAKE	2' O.C.	389	CLUSTER SPECIES IN GROUPS OF 5-7	
RIPARIAN PLANTING						
 SYMPHORICARPUS ALBA	COMMON SNOWBERRY	1 GAL.	5' O.C.	50	CLUSTER SPECIES IN GROUPS OF 5-7	3, 4 16
 ROSA WOODSII	WOOD'S ROSE	1 GAL.	5' O.C.	50	CLUSTER SPECIES IN GROUPS OF 5-7	
 SAMBUCUS CERULEA	BLUE ELDERBERRY	1 GAL.	5' O.C.	50	CLUSTER SPECIES IN GROUPS OF 5-7	
UPLAND/SHRUB-STEPPE PLANTING						
 PURSHIA TRIDENTA	ANTELOPE BITTERBRUSH	1 GAL.	5' O.C.	94	CLUSTER SPECIES IN GROUPS OF 5-7	3, 4 16
 ROSA WOODSII	WOOD'S ROSE	1 GAL.	5' O.C.	94	CLUSTER SPECIES IN GROUPS OF 5-7	
 SYMPHORICARPUS ALBA	SNOWBERRY	1 GAL.	5' O.C.	94	CLUSTER SPECIES IN GROUPS OF 5-7	
UPLAND/SHRUB-STEPPE HYDROSEED						
	SEE SPECIFICATION FOR SEED MIX SPECIES			31,350 sf	SEE SPECIFICATIONS FOR PERCENT BY WEIGHT AND APPLICATION RATES	N/A

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WASHINGTON  
STATE  
PARKS  
AND  
RECREATION  
COMMISSION



PEARRYGIN LAKE  
STATE PARK  
  
CREEK CHANNEL  
STABILIZATION  
  
PLANT SCHEDULE

SCALE  
N/A

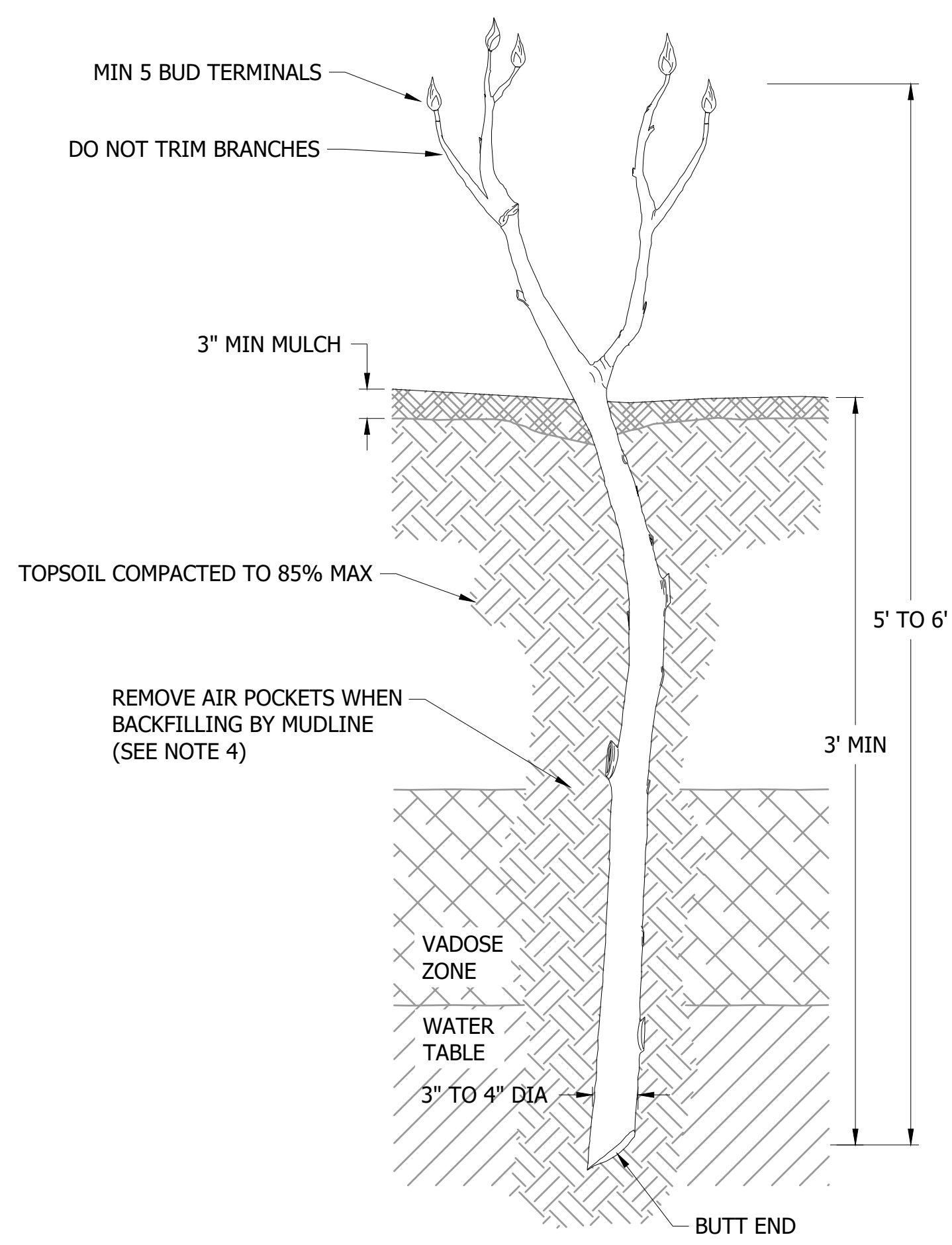
PARKS FILE#

SHEET 15 OF 16

90% DESIGN

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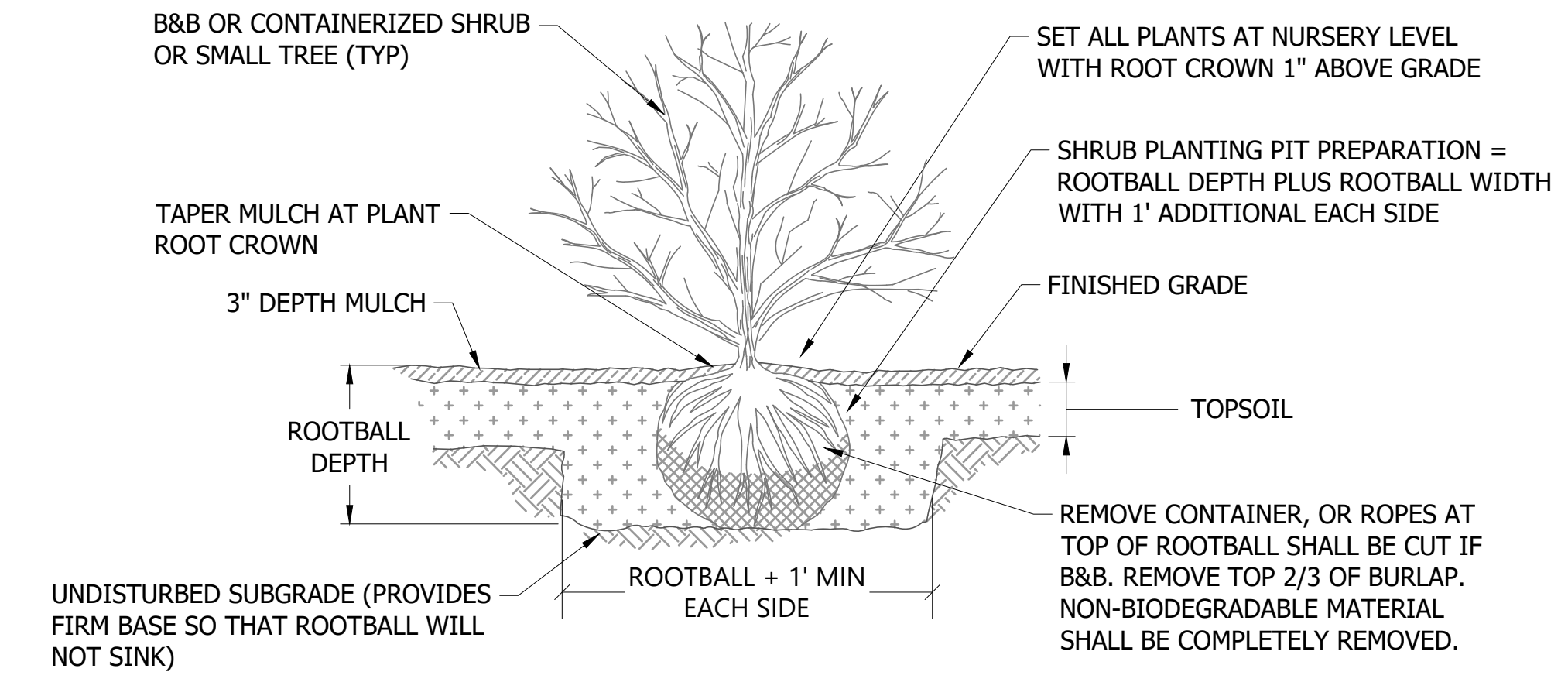
**1** COTTONWOOD POLE PLANTING DETAIL - SECTION

- NOTES:
1. SOAK POLES CONTINUOUSLY PRIOR TO PLANTING.
  2. THE POLE CUTTINGS SHALL EXTEND THROUGH THE VADOSE ZONE AND INTO THE PERMANENT WATER TABLE.
  3. AT LEAST 2/3 OF THE POLE SHOULD BE BELOW THE GROUND (AT LEAST 3 FEET), AND LONG ENOUGH TO EMERGE ABOVE ADJACENT VEGETATION.
  4. "MUDDYING": FILLING THE HOLE WITH WATER THEN SOIL TO MAKE A MUD SLURRY CAN REMOVE AIR POCKETS.
  5. USE STEEL BAR TO CREATE PILOT HOLES (FULL DEPTH) PRIOR TO INSTALLING POLES.

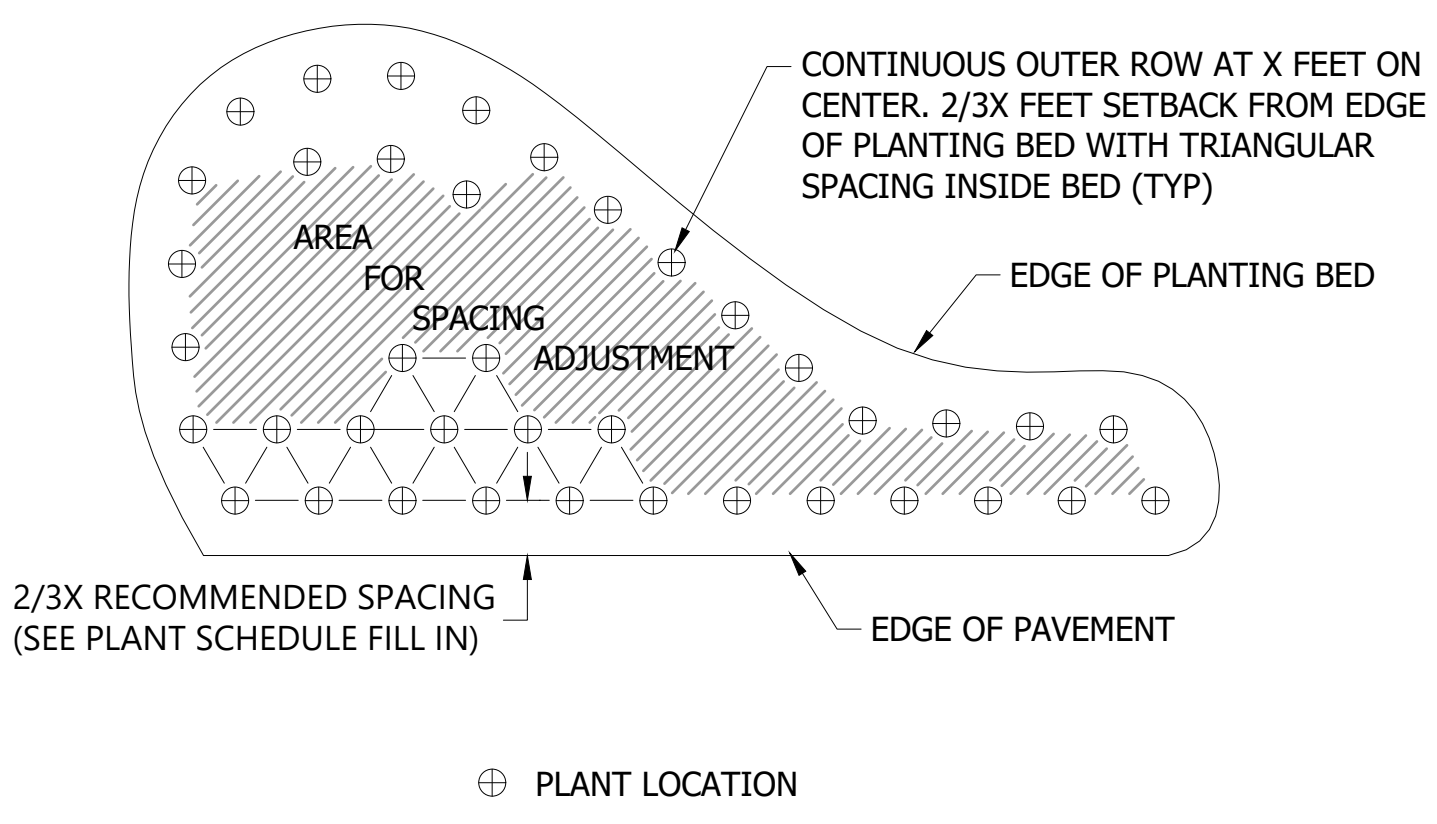
**2** LIVE STAKE PLANTING DETAIL - SECTION

- NOTES:
1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
  2. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION, USE A PILOT BAR IN FIRM SOILS.
  3. SOAK CUTTINGS CONTINUOUSLY PRIOR TO INSTALLATION.
  4. TAMP THE SOIL AROUND THE STAKE.
  5. ONLY NURSERY-GROWN STOCK SHALL BE USED. HARVESTING OF WILD PLANTS IS NOT ACCEPTABLE.
  6. USE EQUAL NUMBER AND EVEN DISTRIBUTION OF EACH WILLOW SPECIES.

**3** SMALL TREE OR SHRUB PLANTING DETAIL - SECTION



NOTE: SMALL TREES ARE LESS THAN 4 FEET IN HEIGHT. FOR TALLER TREES REFER TO DETAIL (FILL IN)



**4** SHRUB AND GROUND COVER PLANTING LAYOUT DETAIL - PLAN

REGISTERED STAMP

WASHINGTON STATE PARKS AND RECREATION COMMISSION



PEARRYGIN LAKE STATE PARK  
CREEK CHANNEL STABILIZATION  
PLANTING DETAILS

SCALE  
AS NOTED

PARKS FILE#