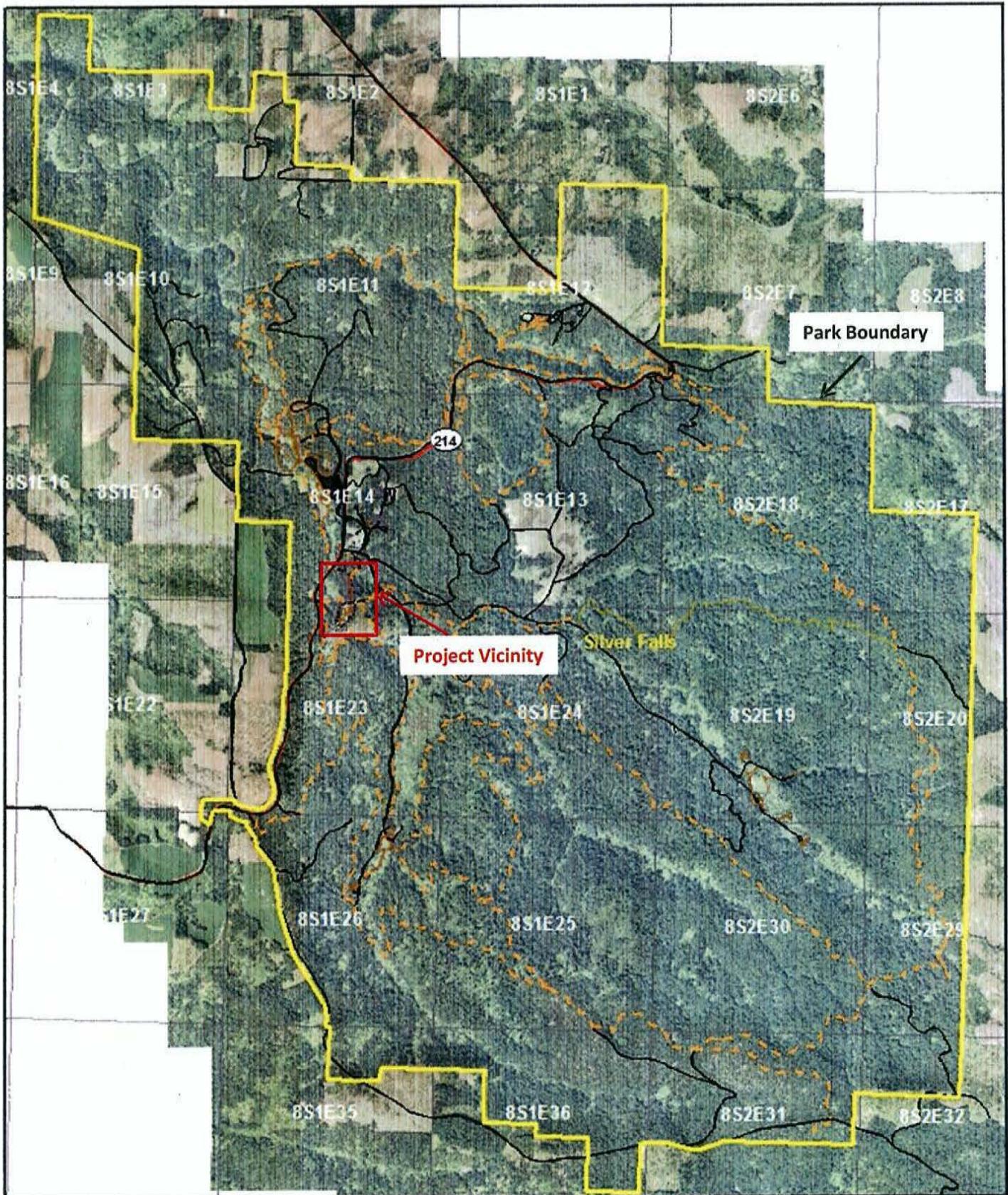


**Silver Falls State Park Property Boundaries**  
**2024 Silver Falls Hwy, Sublimity, OR**  
**in Marion County**

Oregon Parks & Recreation Dept.  
725 Summer St. NE, Suite C  
Salem OR, 97301



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

0 1,650 3,300 Feet

NAD 1983 - HARN Oregon Statewide Lambert Feet (ft)

N:\08-3656 6/19/2013

6/19/2013

Page

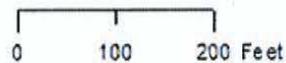
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# Project Vicinity Map - Campground Silver Falls State Park, Oregon

Oregon Parks & Recreation Dept.  
725 Summer St. NE, Suite C  
Salem OR, 97301



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



MO 1933 HARN Oregon Statewide Lambert Feet int'l

N:\MOB-36568-19\2013

5/10/2013

Photo

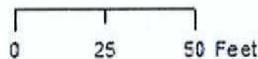
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# Project Area - Bank Stabilization Silver Falls State Park, Oregon

Oregon Parks & Recreation Dept.  
725 Summer St. NE, Suite C  
Salem OR, 97301



This product is for informational purposes and may not have been prepared for, or be suitable for, legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



NAD 1983 HARN Oregon Statewide Lambert Feet Int

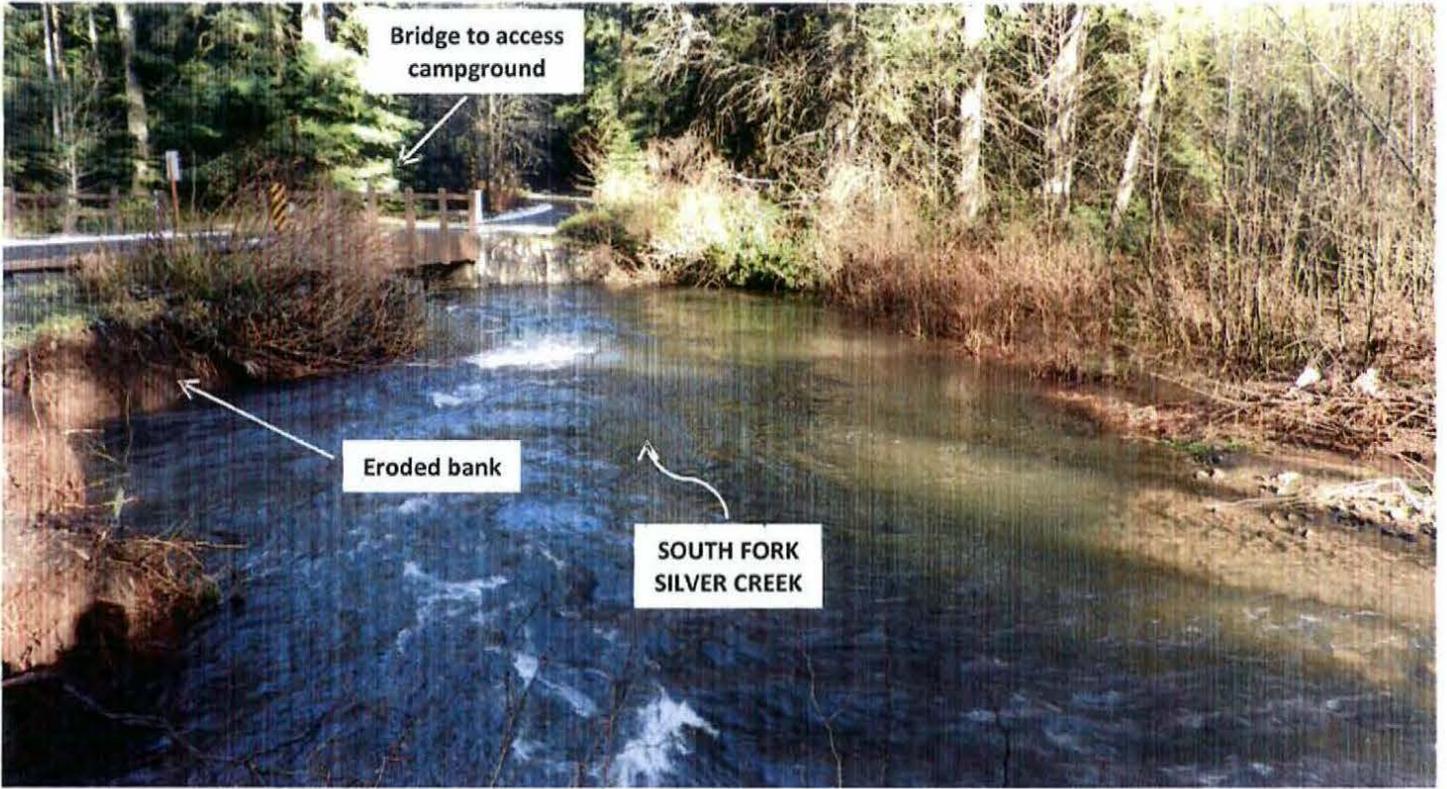
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8/22/2013

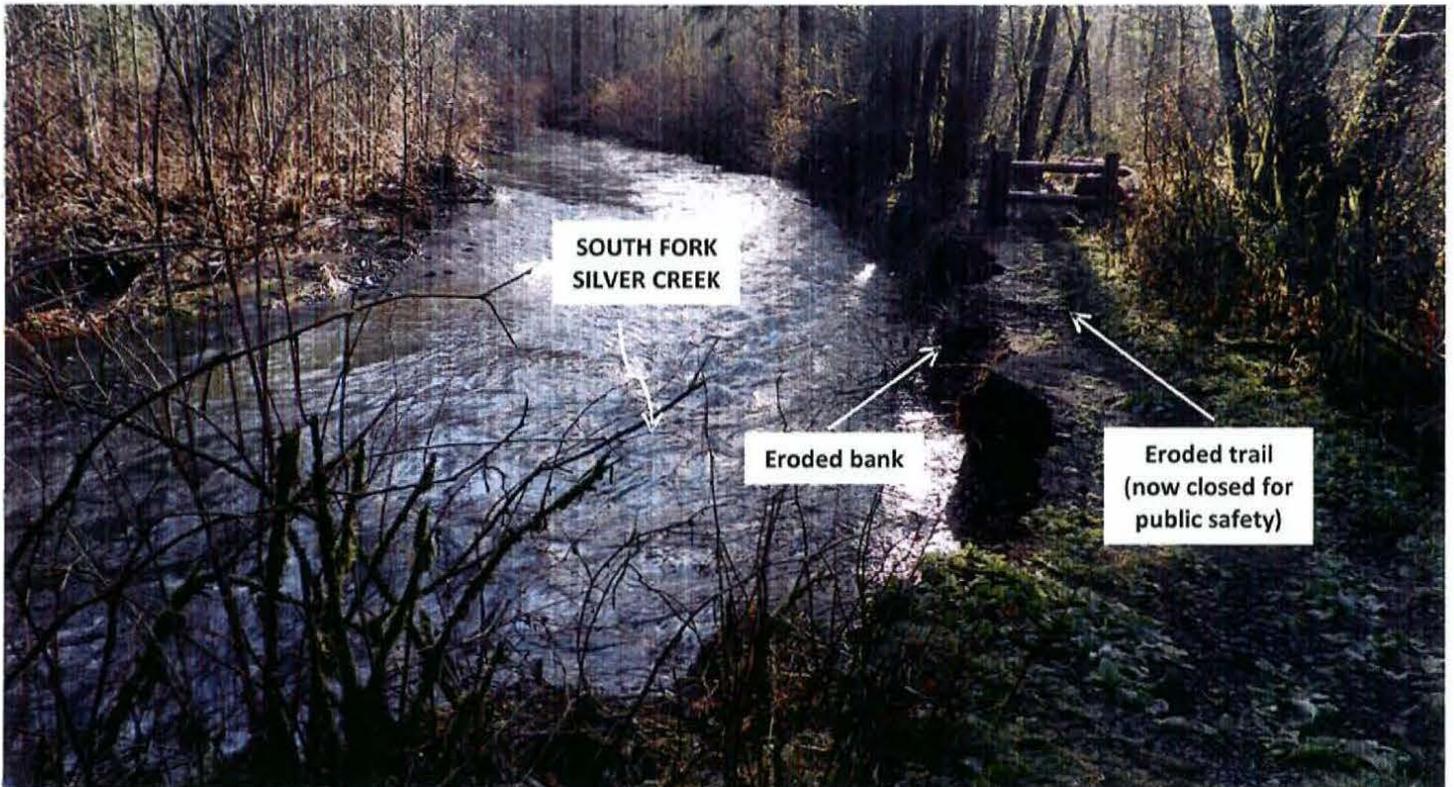
Printed

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# EXISTING SITE PHOTOS



Looking Downstream



Looking Upstream

**LEGEND**

**LINE TYPES**

TAX LOT BOUNDARY	OLD PROPERTY LINE
ROAD RIGHT-OF-WAY	VACATED RIGHT-OF-WAY
RAILROAD	RAILROAD RIGHT-OF-WAY
STREAM, LAKE, ETC. TAX LOT BOUNDARY	STREAM, LAKE, ETC. NON-BOUNDARY
SUBDIVISION BOUNDARY	PARTITION FLAT BDY.
TAX CODE BOUNDARY	EASEMENT

**SYMBOL TYPES**

DLC		
CONTROL POINTS		
SURVEY MONUMENTS		
G.L.O. CORNERS		
SECTION	1/4 SEC	1/16 SEC

**NUMBERS**

TAX CODE NO.  
000 00 00 0

ACREAGE - ALL ACREAGES EXCLUDE ANY PORTION THAT MAY LIE WITHIN THE INDICATED PUBLIC RIGHT OF WAYS.

TICK MARKS - WHEN A TICK MARK IS INDICATED ON THE EXTENSION OF A LINE, THEN THE DIMENSION GOES TO THE TICK MARK. GENERALLY THIS IS USED WHEN DIMENSIONS GO INTO PUBLIC RIGHT OF WAYS.

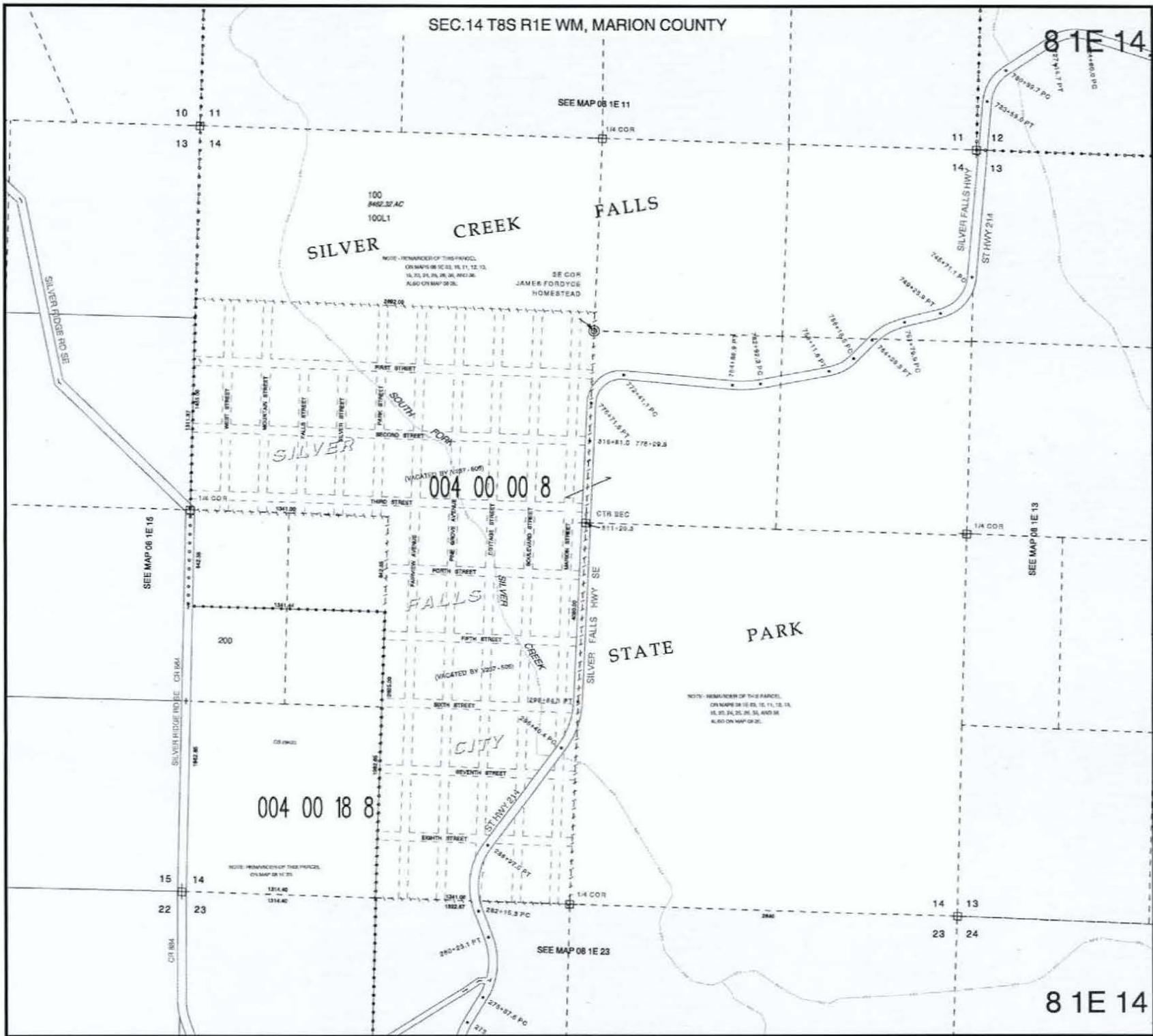
ARROWS ARE USED WITH DIMENSIONS IN AREAS OF GREATER COMPLEXITY.

**NOTICE:** This map was created for Assessor's Office use ONLY.

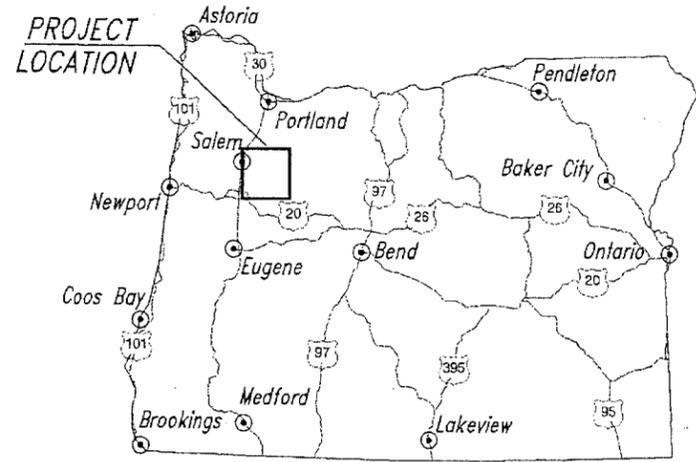


SCALE 1" = 400'  
or 1:4800

Plot file created: November 03, 2009

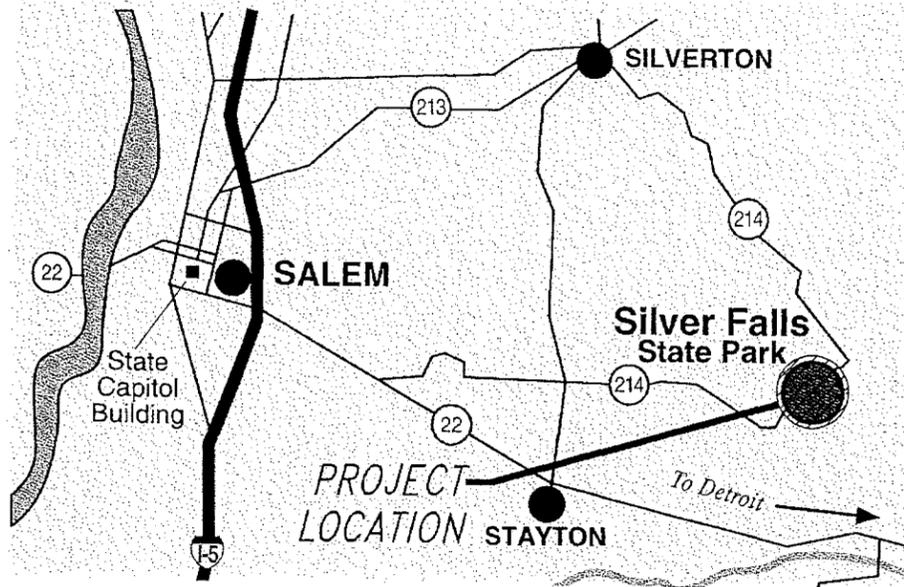






STATE MAP

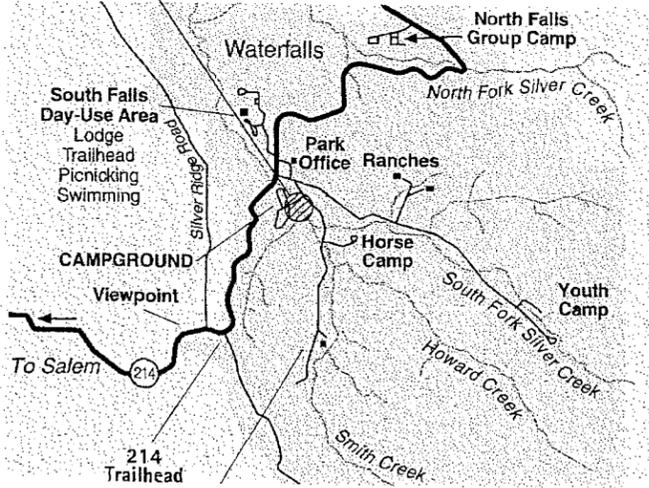
NOT TO SCALE



VICINITY MAP

NOT TO SCALE

PROJECT LOCATION



LOCATION MAP

NOT TO SCALE

DRAWING INDEX

- G1 COVER
- C1 EXISTING CONDITIONS, SITE ACCESS, & DEMO
- C2 SITE PLAN & OVERVIEW
- C3 BANK TREATMENT SECTIONS & DETAILS
- C4 HABITAT DETAILS
- EC1 EROSION & SEDIMENT CONTROL PLAN
- EC2 EROSION & SEDIMENT CONTROL DETAILS
- EC3 EROSION & SEDIMENT CONTROL DETAILS

GENERAL NOTES

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR HAVING UTILITIES LOCATED PRIOR TO CONSTRUCTION ACTIVITIES.
2. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY DAMAGED UTILITIES TO THE AFFECTED UTILITY SERVICE.
3. ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE LOCATIONS ONLY AND MUST BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.
4. THE BASE SURVEY FOR THIS PROJECT WAS COMPLETED BY OREGON PARKS AND RECREATION. ALL ELEVATIONS ARE BASED ON SURVEY CONTROL POINTS INDICATED IN PLAN DRAWINGS. HORIZONTAL COORDINATES ARE REFERENCED TO U.S. STATE PLANE, OREGON NORTH, INTERNATIONAL FEET. ELEVATION DATUM: NAVD88 (GEO ID 03).
5. THE CONTRACTOR SHALL NOT WORK DIRECTLY WITHIN SOUTH FORK SILVER CREEK WITHOUT THE USE OF AN APPROVED WORK AREA ISOLATION AND STREAM DIVERSION PLAN. THE WORK AREA ISOLATION AND STREAM DIVERSION PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
6. ALL WORK SHALL BE DONE DURING THE IN-WATER WORK PERIOD JULY 15 - SEPTEMBER 30.

CONTACTS

**PROJECT MANAGER:**  
 KATRINA KAM  
 725 SUMMER ST. NE, STE C  
 SALEM, OR 97301-1271  
 OFFICE: (503) 986-0776  
 FAX: (503) 986-0792

**PARK MANAGER:**  
 KEVIN STRANDBERG  
 SILVER FALLS STATE PARK  
 20024 SILVER FALLS HWY SE  
 SUBLIMITY, OR 97385  
 OFFICE: (503) 873-4395 EXT. 26  
 FAX: (503) 873-4395

**OWNER/APPLICANT:**  
 OREGON PARKS & RECREATION DEPT.  
 725 SUMMER ST. NE, STE C  
 SALEM, OR 97301-1271  
 OFFICE: (503) 986-0707  
 FAX: (503) 986-0792

**ENGINEER:**  
 VIGIL-AGRIMIS, INC  
 HUNTER WHITE, PE  
 KEN VIGIL, PE

**VIGIL AGRIMIS**  
 design professionals

819 SE Morrison Street 503-274-2010  
 Suite 310 503-274-2024  
 Portland, Oregon 97214 www.vigil-agrimis.com  
 Engineering • Landscape Architecture • Environmental Science

PROJECT DATA

PROJECT LOCATION: SILVER FALLS STATE PARK - 20024 SILVER FALLS HWY SE SUBLIMITY, OR 97385

LEGAL DESCRIPTION: SE 1/4 T. 8S, R. 1E, S. 14 (TAX LOT 00100)  
 NE 1/4 T. 8S, R. 1E, S. 23 (TAX LOT 00100)

PROJECT COORDINATES: LAT. 44.876667 N  
 LONG. -122.64805 W

SIZE: 0.58 ACRES

AREA OF DISTURBANCE: 0.20 ACRES - TOTAL SITE DISTURBANCE

ABBREVIATIONS

AVG	AVERAGE
CY	CUBIC YARD
DIA	DIAMETER
DTL	DETAIL
DWG	DRAWING
E	EASTING
EL	ELEVATION
FT	FOOT, FEET
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
OHW	ORDINARY HIGH WATER
SHT	SHEET
TYP	TYPICAL
WHS	WOOD HABITAT STRUCTURE

LOCATES (48 HOURS NOTICE REQUIRED PRIOR TO EXCAVATION)

THE CONTRACTOR MUST COMPLY WITH THE REGULATIONS OF O.R.S. 757.541 TO 757.571 IN LOCATION AND PROTECTION OF UNDERGROUND UTILITIES. OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.

COLOR CODES:

- RED - ELECTRICAL POWER LINES, CABLES, OR CONDUIT, AND LIGHTING CABLES
- YELLOW - GAS, OIL, STEAM, PETROLEUM, OR OTHER HAZARDOUS LIQUID OR GASEOUS MATERIALS.
- ORANGE - COMMUNICATIONS, CABLE TV, ALARM OR SIGNAL LINES, CABLES OR CONDUITS.
- BLUE - WATER, IRRIGATION, AND SLURRY LINES.
- GREEN - SEWERS, DRAINAGE FACILITIES OR OTHER DRAIN LINES.
- WHITE - PRE-MARKING OF THE OUTER LIMITS OF THE PROPOSED EXCAVATION OR MARKING THE CENTERLINE AND WIDTH OF PROPOSED LINEAL INSTALLATIONS OF BURIED FACILITIES.
- PINK - TEMPORARY SURVEY MARKINGS
- PURPLE - SLURRY AND RECLAIMED



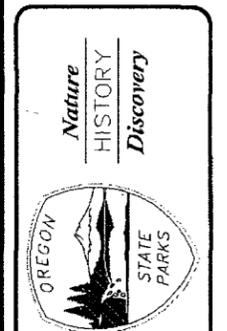
RENEWAL DATE 06-30-14

09/07/12 - 12:57pm - Y:\OPRDX001\CAD\PLT\CDS\G1-COVER.dwg

**CAMPGROUND BRIDGE BANK STABILIZATION**  
**SILVER FALLS STATE PARK**  
**MARION COUNTY, OREGON**

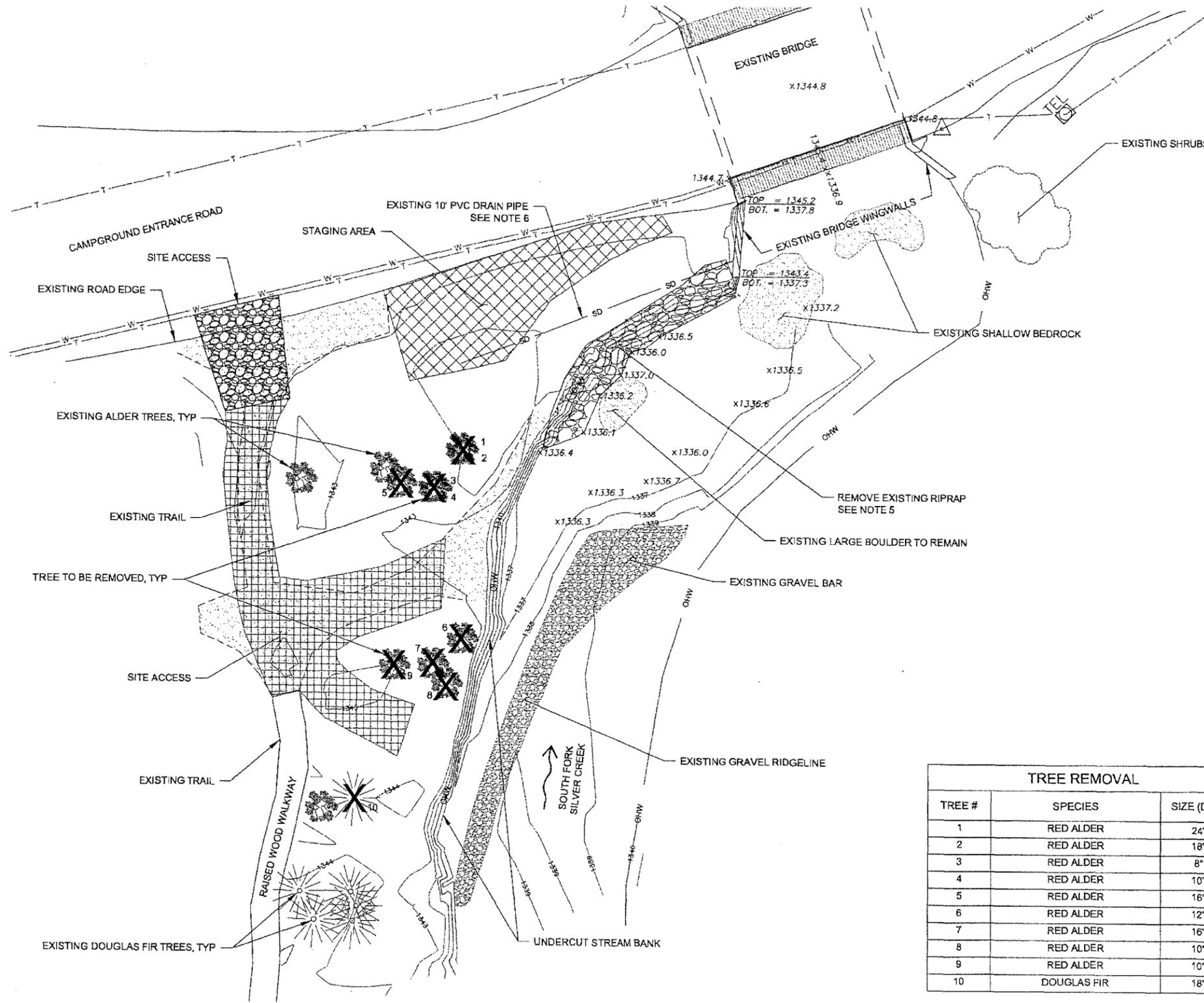
BY	OPRD
DATE	11-11-11
REVISION	H

APPROVED BY	HLW	DATE	08/31/2012
CHECKED BY	ALJ		
DESIGNED BY			
DRAWN BY			



SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
 COVER  
 OREGON PARKS AND RECREATION DEPARTMENT

SHEET:	G1
HUB #:	



- NOTES:**
- COORDINATE STAGING AND STOCKPILING LOCATIONS WITH PARK MANAGER.
  - PROTECT EXISTING VEGETATION TO THE MAXIMUM EXTENT POSSIBLE.
  - ALL ACCESS AND STAGING AREAS SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS AS DESCRIBED IN SPECS.
  - UTILITY LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES WITHIN THE WORK AREA.
  - REMOVE EXISTING RIPRAP AND STOCKPILE ROCK FOR USE IN VEGETATED RIPRAP OR STREAM BARBS.
  - POSSIBLE LOCATION OF EXISTING 10" PVC DRAIN PIPE. IF ENCOUNTERED DURING CONSTRUCTION, PROTECT PIPE OR RECONNECT AS NECESSARY.
  - REMOVE ALL TREES IDENTIFIED FOR REMOVAL, IF NECESSARY TO COMPLETE WORK. DISPOSE OF TREES OFF SITE.
  - PROTECT EXISTING BRIDGE AND WINGWALLS DURING CONSTRUCTION. CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE TO BRIDGE. NOTIFY OWNER IMMEDIATELY IF DAMAGE OCCURS.

- LEGEND:**
- SURVEY CONTROL POINT
  - SPOT ELEVATION (TYP)
  - COMMUNICATION RISER BOX
  - EXISTING ALDER TREE
  - EXISTING DOUGLAS-FIR TREE
  - TREE REMOVAL
  - IN PLACE RIP-RAP
  - EXISTING CRUSHED GRAVEL
  - EXISTING GRAVEL RIDGELINE
  - STAGING AREA
  - SITE ACCESS
  - SITE ACCESS / CONSTRUCTION ENTRANCE
  - ORDINARY HIGH WATER LINE

TREE REMOVAL		
TREE #	SPECIES	SIZE (DBH)
1	RED ALDER	24"
2	RED ALDER	18"
3	RED ALDER	8"
4	RED ALDER	10"
5	RED ALDER	16"
6	RED ALDER	12"
7	RED ALDER	16"
8	RED ALDER	10"
9	RED ALDER	10"
10	DOUGLAS FIR	18"

**EXISTING CONDITIONS, SITE ACCESS, AND DEMO**

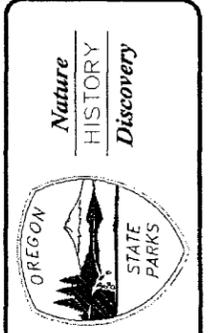
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RENEWAL DATE 06-30-14

REVISION #	DATE	BY	OPRD
1	11-11-11	HLW	

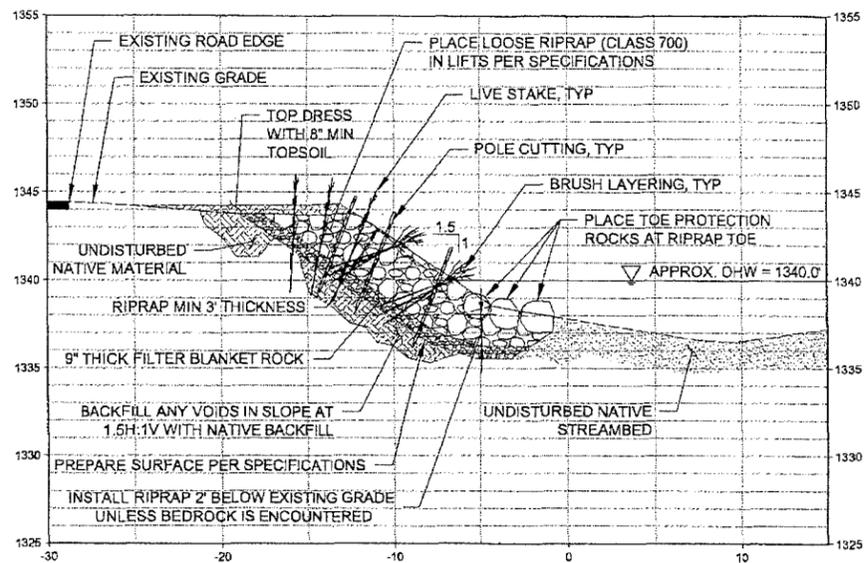
APPROVED BY	CHECKED BY	DESIGNED BY	DATE
	HLW	ALJ	08/31/2012
DRAWN BY			



SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
 EXISTING CONDITIONS, SITE ACCESS, & DEMO  
 OREGON PARKS AND RECREATION DEPARTMENT

SHEET:	C1
HUB #:	



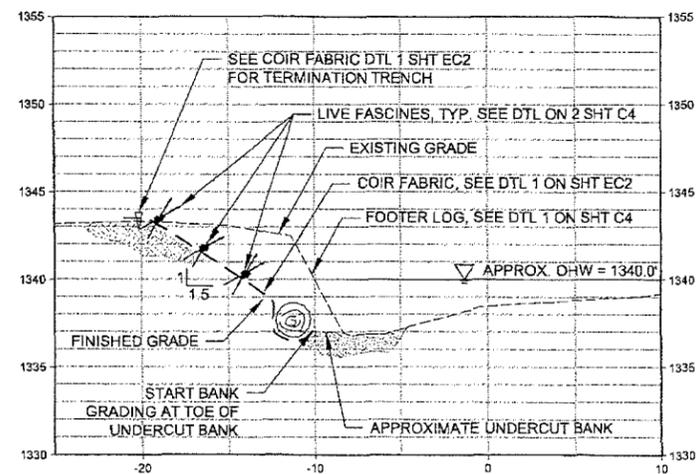


**NOTES:**

1. LIVE STAKES AND POLE CUTTINGS SHOWN IN THIS SECTION SHALL BE REPEATED, INSTALLED AT APPROXIMATELY 2 FT ON CENTER ALONG THE LENGTH OF THE BANK TREATMENT.
2. BRUSH LAYERING SHALL BE A CONTINUOUS LAYER OF BRUSH ALONG THE LENGTH OF THE BANK TREATMENT, AS DESCRIBED IN THE SPECS.

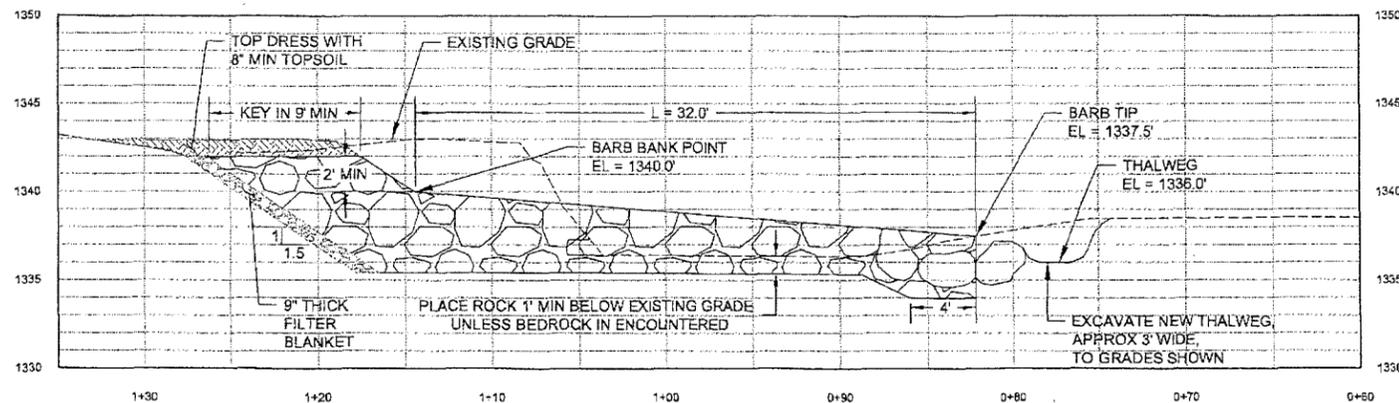
**1 SECTION - VEGETATED RIPRAP BANK TREATMENT**

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



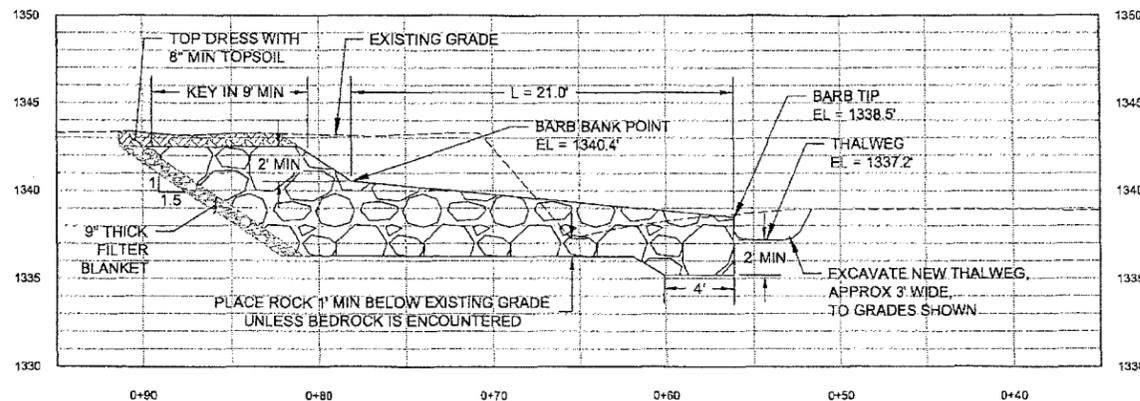
**2 SECTION - BANK GRADING**

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



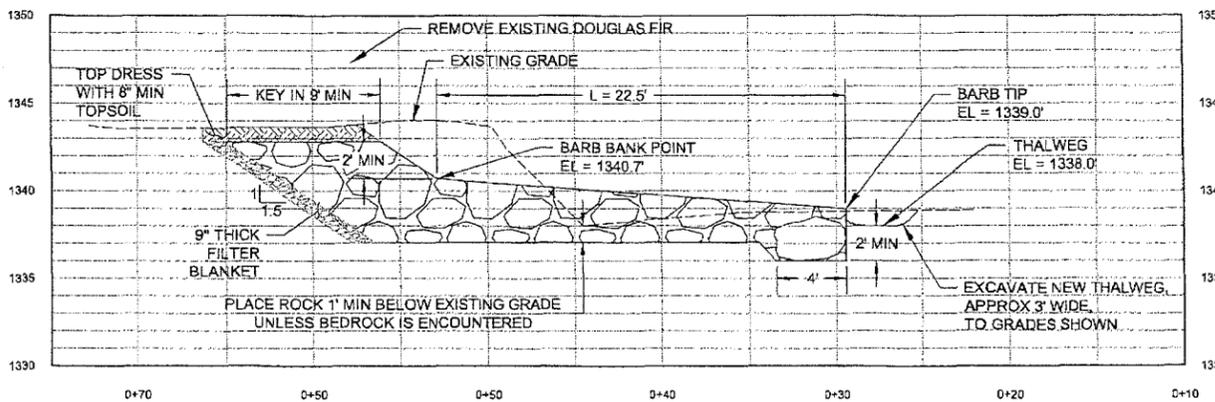
**3 SECTION - BARB #1**

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



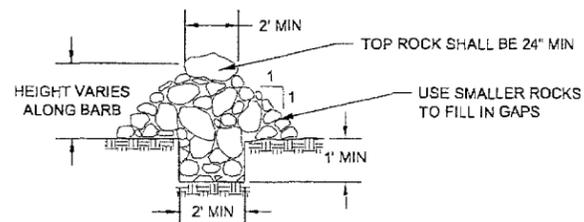
**4 SECTION - BARB #2**

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



**5 SECTION - BARB #3**

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'



**6 TYPICAL BARB SECTION**

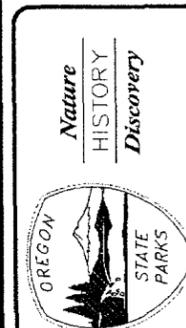
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RENEWAL DATE 06-30-14

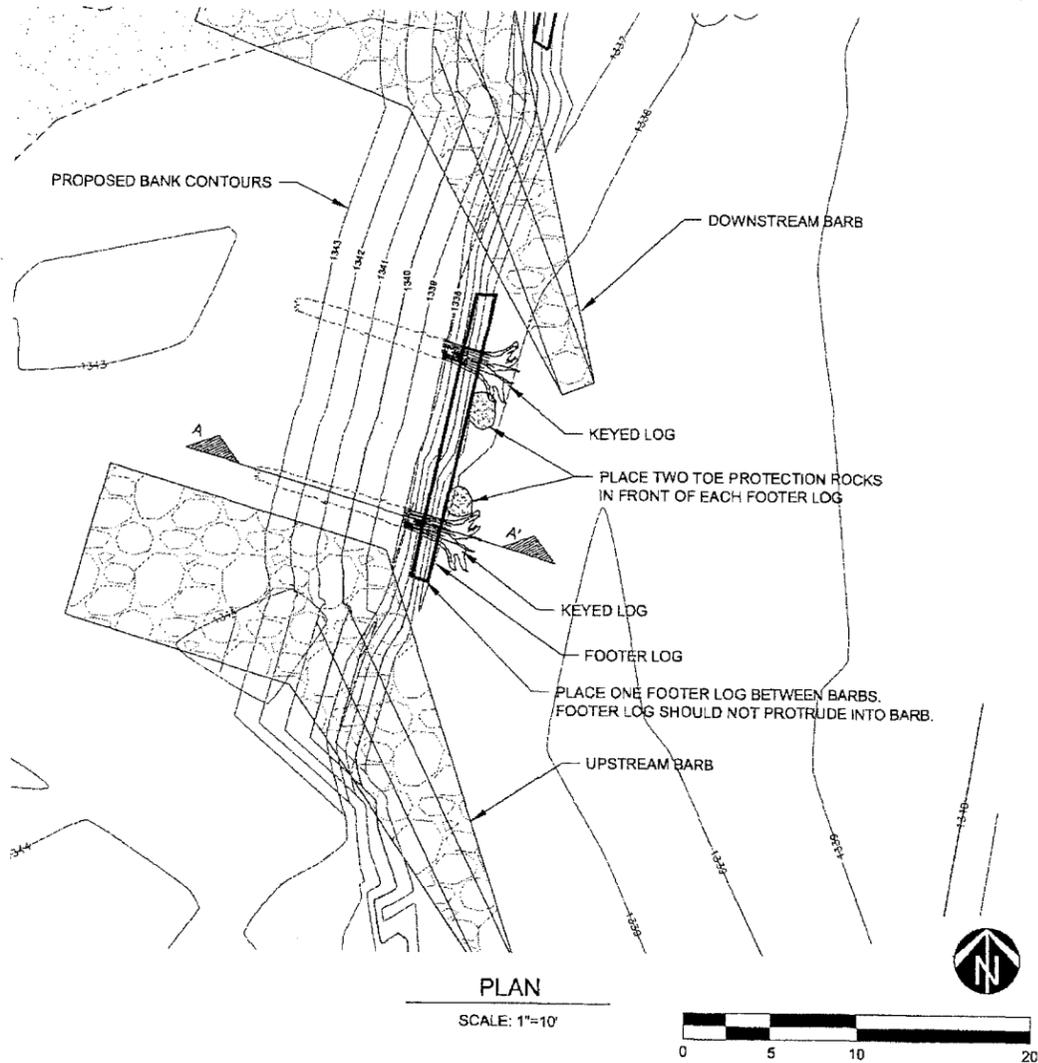
REVISION #	DATE	BY
1	11-11-11	OPRC

APPROVED BY	HLW
CHECKED BY	ALJ
DESIGNED BY	ALJ
DRAWN BY	ALJ
DATE	08/31/2012



SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
BANK TREATMENT SECTIONS & DETAILS  
OREGON PARKS AND RECREATION DEPARTMENT

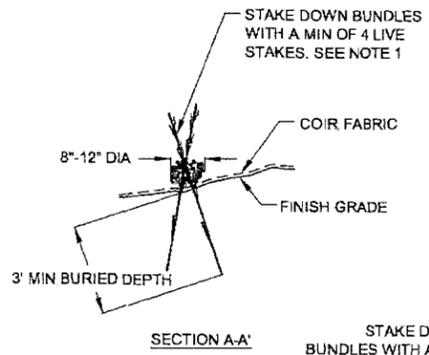
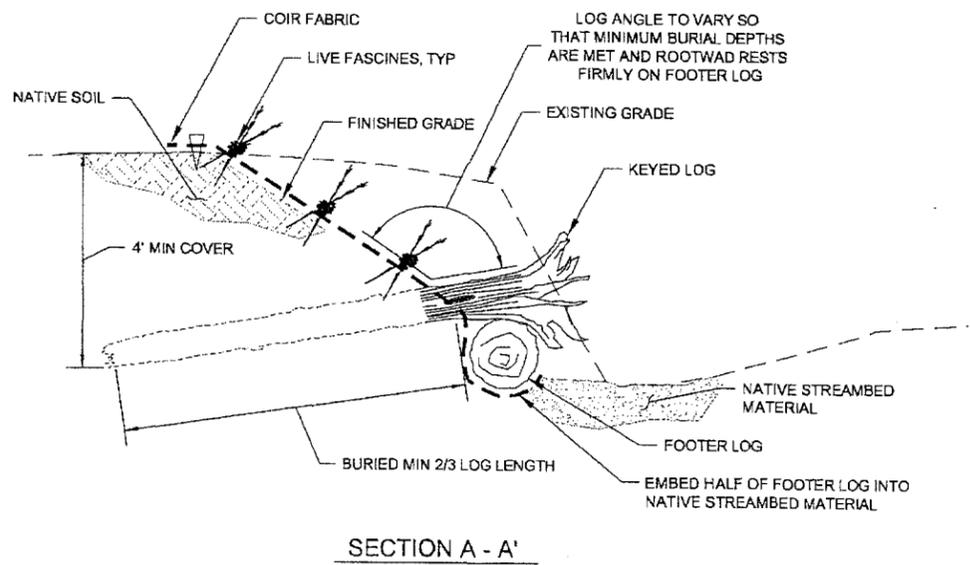
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HUB #:	



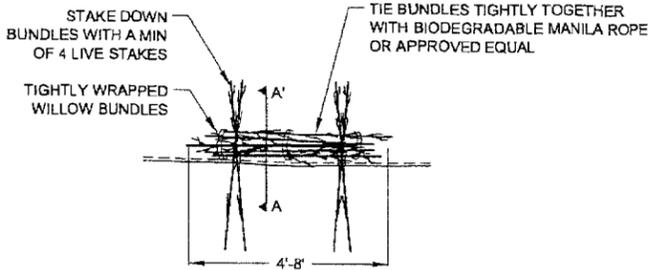
ROCK / SOIL SCHEDULE	
ROCK / SOIL	SPEC SECTION
RIPRAP	02215
STREAM BARB ROCK	02204
FILTER BLANKET ROCK	02215
TOE PROTECTION ROCKS	02215
TOPSOIL	02300
NATIVE BACKFILL	02321

CLASS 700 RIPRAP	
WEIGHT OF ROCK (LBS)	PERCENT (BY WEIGHT)
700 - 500	20.0
500 - 200	30.0
200 - 20	40.0
20 - 0	10.0

STREAM BARB ROCK		
APPROXIMATE ROCK DIAMETER (INCHES)	WEIGHT OF ROCK (LBS)	PERCENT (BY WEIGHT)
30" - 20"	1800 - 700	30.0
20" - 15"	700 - 200	30.0
15" - 8"	200 - 20	20.0
8" - 6"	20 - 15	20.0



- LIVE FASCINE NOTES:**
- LIVE STAKES TO BE A MINIMUM 5' LONG AND 1 1/2" IN DIA. LIVE STAKES SHALL BE ONE OR MORE OF THE FOLLOWING PACIFIC NORTHWEST NATIVE WILLOW SPECIES:  
 HOOKERS WILLOW - SALIX HOOKERIANA  
 PACIFIC WILLOW - SALIX LUCIDA  
 SITKA WILLOW - SALIX SITCHENSIS  
 COLUMBIA WILLOW - SALIX FLUVIATILIS



1 BANK PROTECTION WHS

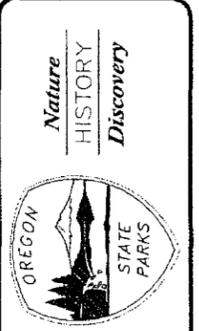
2 LIVE FASCINE NTS



RENEWAL DATE 06-30-14

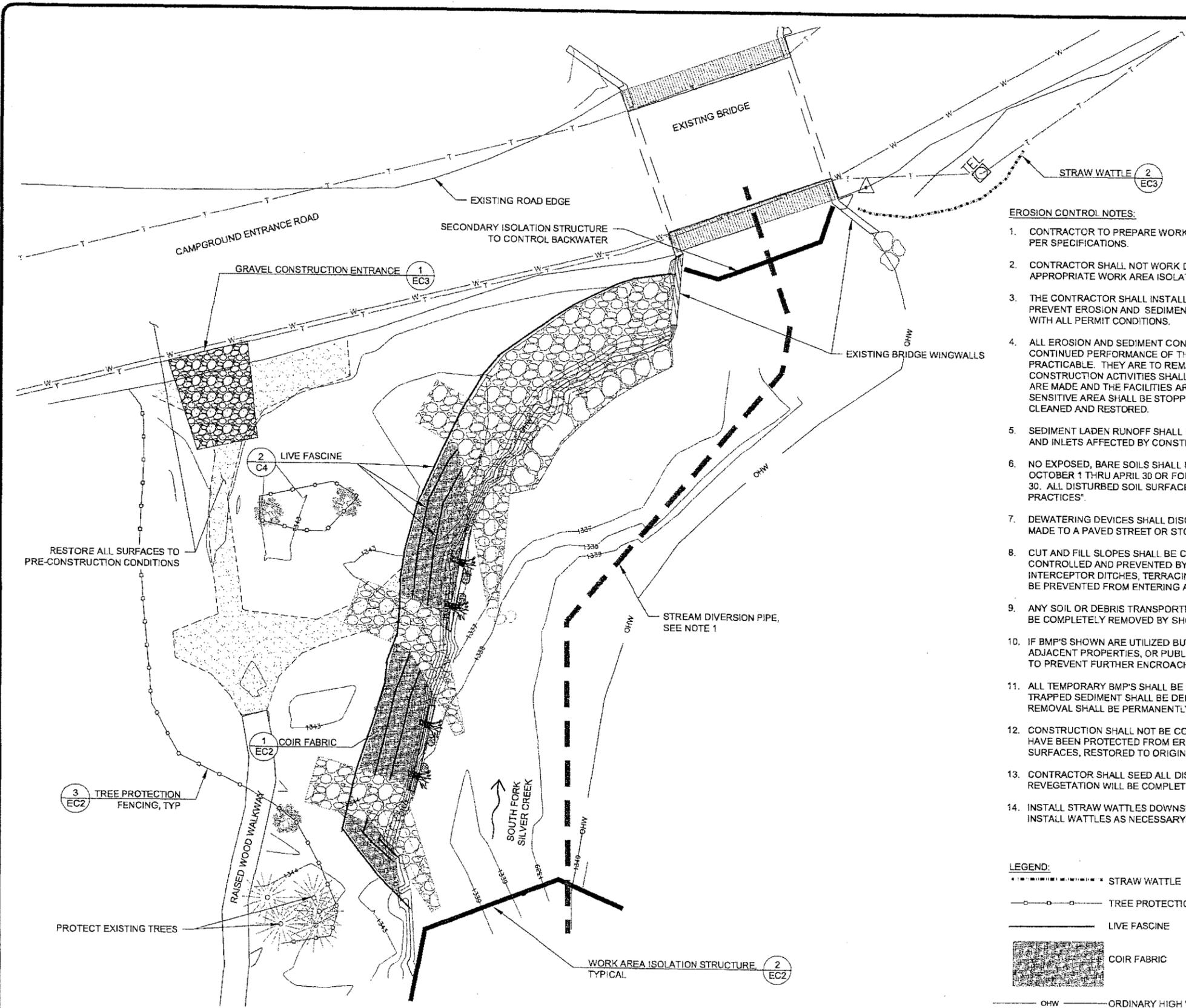
REVISION	DATE	BY	OPRO
1	11-11-11	HLW	

APPROVED BY	HLW	DESIGNED BY	ALJ	DATE	08/31/2012
CHECKED BY		DRAWN BY			



SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
 HABITAT DETAILS  
 OREGON PARKS AND RECREATION DEPARTMENT

SHEET: C4  
 HUB #:



**EROSION & SEDIMENT CONTROL PLAN**  
SCALE: 1"=20'

**EROSION CONTROL NOTES:**

1. CONTRACTOR TO PREPARE WORK AREA ISOLATION AND STREAM DIVERSION PLAN FOR ENGINEER APPROVAL PER SPECIFICATIONS.
2. CONTRACTOR SHALL NOT WORK DIRECTLY WITHIN SOUTH FORK SILVER CREEK WITHOUT THE USE OF AN APPROPRIATE WORK AREA ISOLATION STRUCTURE. SEE DTL 2 SHT EC2.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN BMP'S AS SHOWN AND PERFORM ALL ACTIONS NECESSARY TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. CONTRACTOR SHALL COMPLY WITH ALL PERMIT CONDITIONS.
4. ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. NEEDED REPAIRS SHALL BE MADE AS SOON AS PRACTICABLE. THEY ARE TO REMAIN IN PLACE AND OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. CONSTRUCTION ACTIVITIES SHALL NOT CONTINUE OR RESUME UNTIL REPAIRS TO EROSION CONTROL FACILITIES ARE MADE AND THE FACILITIES ARE FUNCTIONAL. ANY SEDIMENT LEAVING THE SITE OR DISCHARGING TO A SENSITIVE AREA SHALL BE STOPPED AND CONTROLLED IMMEDIATELY. CONTAMINATED AREAS SHALL BE CLEANED AND RESTORED.
5. SEDIMENT LADEN RUNOFF SHALL BE PREVENTED FROM ENTERING ALL EXISTING STORMWATER CATCH BASINS AND INLETS AFFECTED BY CONSTRUCTION. PROTECT ANY INLETS AND DRAINS NOT SHOWN ON PLANS.
6. NO EXPOSED, BARE SOILS SHALL REMAIN UNSTABILIZED FOR MORE THAN TWO DAYS DURING THE PERIOD OCTOBER 1 THRU APRIL 30 OR FOR MORE THAN SEVEN DAYS DURING THE PERIOD OF MAY 1 THRU SEPTEMBER 30. ALL DISTURBED SOIL SURFACES SHALL BE STABILIZED BY A SUITABLE APPLICATION OF "BEST MANAGEMENT PRACTICES".
7. DEWATERING DEVICES SHALL DISCHARGE INTO A SEDIMENT TRAP OR SEDIMENT POND. NO DISCHARGE SHALL BE MADE TO A PAVED STREET OR STORMWATER COLLECTION SYSTEM WITHOUT FIRST REMOVING SEDIMENT.
8. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. EROSION SHALL BE CONTROLLED AND PREVENTED BY SUCH MEASURES AS ROUGHENING THE SURFACE, INSTALLATION OF INTERCEPTOR DITCHES, TERRACING, COVERING WITH MATTING, MULCH OR PLASTIC SHEETING. RUNOFF SHALL BE PREVENTED FROM ENTERING A SLOPE AND FROM UNDERCUTTING THE BASE OF SLOPES.
9. ANY SOIL OR DEBRIS TRANSPORTED ONTO ROADWAYS AND SIDEWALKS SHALL BE REMOVED. DEPOSITS SHALL BE COMPLETELY REMOVED BY SHOVELING AND/OR SWEEPING.
10. IF BMP'S SHOWN ARE UTILIZED BUT ARE INSUFFICIENT TO PREVENT SEDIMENT FROM REACHING WATER BODIES, ADJACENT PROPERTIES, OR PUBLIC RIGHTS-OF-WAY; ADDITIONAL BMP'S SHALL BE IMPLEMENTED IMMEDIATELY TO PREVENT FURTHER ENCROACHMENT OF SEDIMENT.
11. ALL TEMPORARY BMP'S SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT SHALL BE DEPOSITED AND STABILIZED ON SITE. AREAS DISTURBED RESULTING FROM BMP REMOVAL SHALL BE PERMANENTLY STABILIZED.
12. CONSTRUCTION SHALL NOT BE CONSIDERED COMPLETE AND ACCEPTABLE UNTIL ALL DISTURBED SOIL SURFACES HAVE BEEN PROTECTED FROM EROSION WITH PERMANENT LANDSCAPING, COVERED WITH IMPERVIOUS SURFACES, RESTORED TO ORIGINAL UNDISTURBED CONDITION, OR PERMANENTLY STABILIZED.
13. CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITH AN OWNER PROVIDED SEED MIX. ADDITIONAL REVEGETATION WILL BE COMPLETED BY OWNER.
14. INSTALL STRAW WATTLES DOWNSLOPE FROM STAGING AREAS. IN ADDITION TO THE WATTLES SHOWN HERE, INSTALL WATTLES AS NECESSARY TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING WETLANDS.

**LEGEND:**

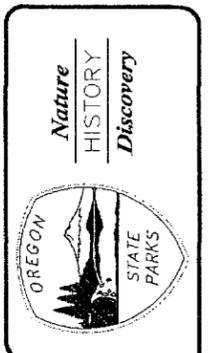
- STRAW WATTLE
- TREE PROTECTION FENCING
- LIVE FASCINE
- COIR FABRIC
- OHW — ORDINARY HIGH WATER



RENEWAL DATE 06-30-14

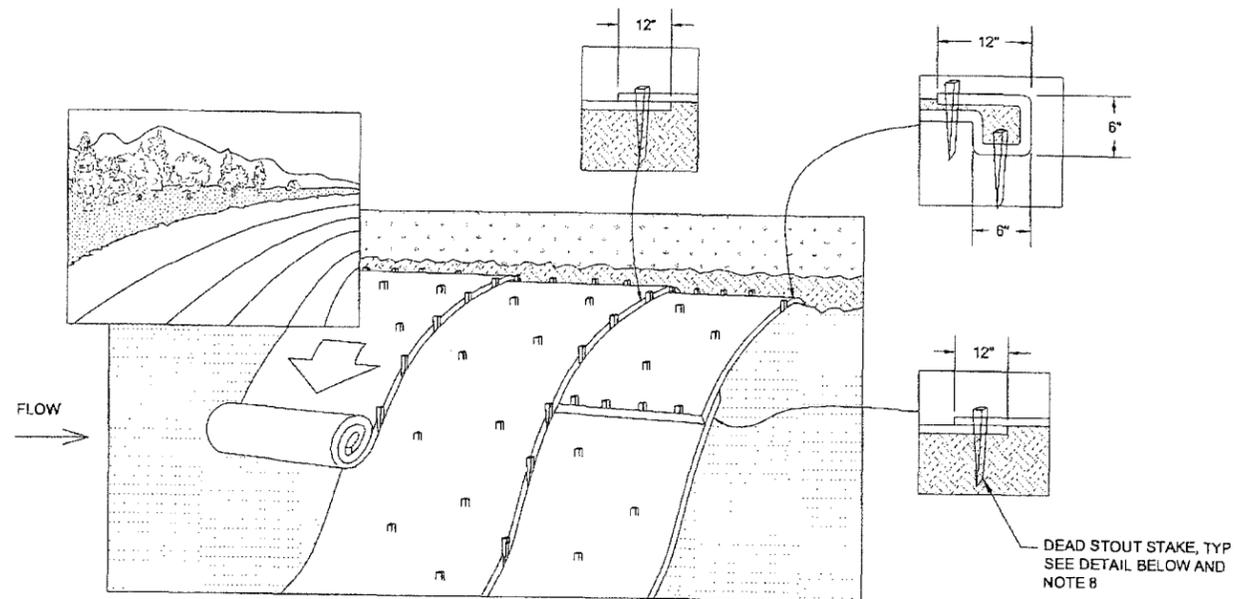
REVISION	DATE	BY

APPROVED BY:	CHECKED BY:	DESIGNED BY:	DRAWN BY:



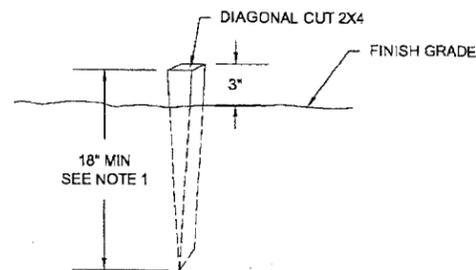
SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
EROSION & SEDIMENT CONTROL PLAN  
OREGON PARKS AND RECREATION DEPARTMENT

SHEET:	EC1
HUB #:	



**COIR FABRIC NOTES:**

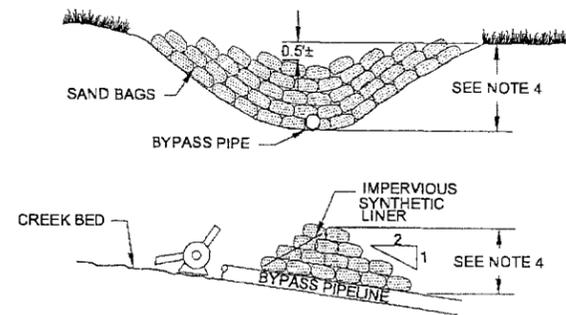
1. PREPARE SOIL BEFORE INSTALLING FABRIC. PLACE SEED ON SOIL BEFORE INSTALLING FABRIC.
2. FLOODPLAIN COIR FABRIC SHALL BE WOVEN ROLANKA BIOD-MAT 90 OR APPROVED EQUAL.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE FABRIC IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF FABRIC EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE FABRIC WITH A ROW OF DEAD STOUT STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF FABRIC BACK OVER SEED AND COMPACTED SOIL. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE FABRIC.
4. ROLL THE FABRIC DOWN THE SLOPE. FABRIC WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL FABRIC MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES A MINIMUM OF 3' ON CENTER IN A GRID PATTERN AS SHOWN.
5. THE EDGES OF PARALLEL FABRIC PIECES MUST BE STAKED WITH MINIMUM 1" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE FABRIC LENGTH.
6. CONSECUTIVE FABRIC PIECES SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH MINIMUM 1" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE FABRIC WIDTH.
7. AT THE BOTTOM OF THE SLOPE ANCHOR THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF FABRIC EXTENDED BEYOND THE DOWN-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF DEAD STOUT STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. AFTER PLACING STAKES, BACKFILL AND COMPACT THE TRENCH. SECURE FABRIC OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE FABRIC.
8. ALL STAKES TO BE MINIMUM 18" LONG 2X4 CUT DIAGONALLY. SEE DEAD STOUT STAKE DETAIL.
9. SHINGLE FABRIC WITH THE UPSTREAM PIECE OVER THE DOWNSTREAM PIECE.



**DEAD STOUT STAKE NOTES:**

1. LONGER STAKES MAY BE REQUIRED DUE TO SOIL TYPES AND MOISTURE LEVELS. STAKE LENGTHS TO BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.
2. ALL STAKES SHALL BE CONSTRUCTED FROM 2X4 LUMBER RIPPED DIAGONALLY.

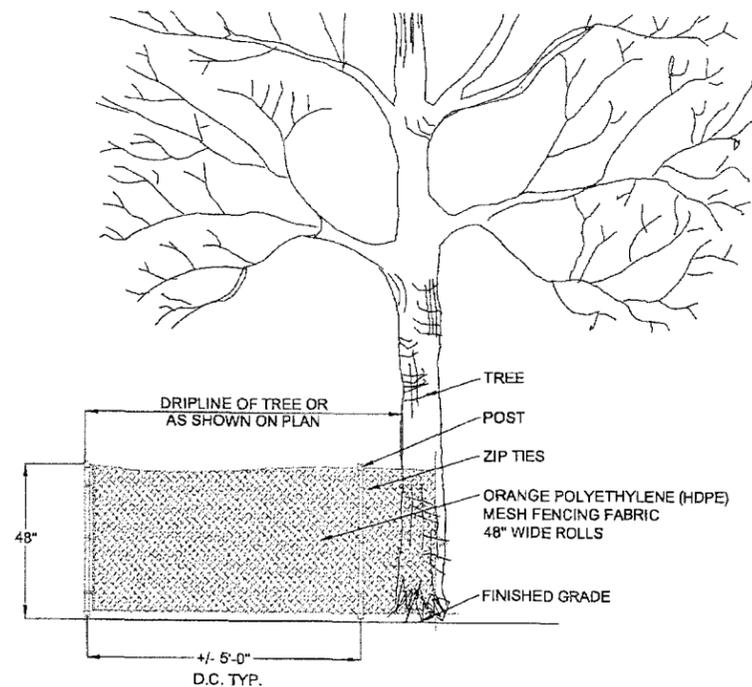
**1 COIR FABRIC NTS**



**NOTES:**

1. THE CONTRACTOR SHALL NOT WORK DIRECTLY WITHIN SOUTH FORK SILVER CREEK WITHOUT THE USE OF AN APPROVED WORK AREA ISOLATION AND STREAM DIVERSION PLAN.
2. THE HEIGHT OF THE PRIMARY AND SECONDARY DIVERSION DAMS SHALL BE HIGH ENOUGH TO PREVENT OVERTOPPING AND ALLOW ENOUGH FREEBOARD FOR INCLEMENT WATER CONDITIONS. DAM HEIGHTS AND MATERIALS SHALL BE INCLUDED IN THE CONTRACTORS WORK AREA ISOLATION AND STREAM DIVERSION PLAN.
3. THE LAYOUT DEPICTS A POTENTIAL APPROACH FOR STREAM DIVERSION AND DEWATERING. FINAL WORK AREA ISOLATION AND STREAM DIVERSION PLAN TO BE DEVELOPED BY THE CONTRACTOR AND APPROVED BY ENGINEER/OWNER'S REPRESENTATIVE.
4. DEWATERING PUMPS SHALL HAVE FISH SCREENS.

**2 WORK AREA ISOLATION STRUCTURE NTS**



**NOTES:**

1. 2"x 2"x 6" STEEL FENCE POSTS. INSTALL AROUND TREE DRIP LINE WHERE APPLICABLE.
2. FASTEN FABRIC TO FENCE PER MANUFACTURERS RECOMMENDATION.
3. INSURE ALL POST ARE SET FIRM AND STABLE INTO GROUND MIN. 2'-0" DEPTH.

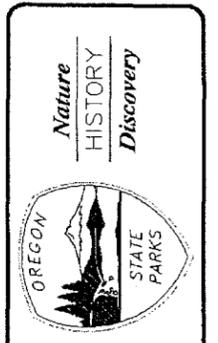
**3 TREE PROTECTIVE FENCING NTS**



RENEWAL DATE 06-30-14

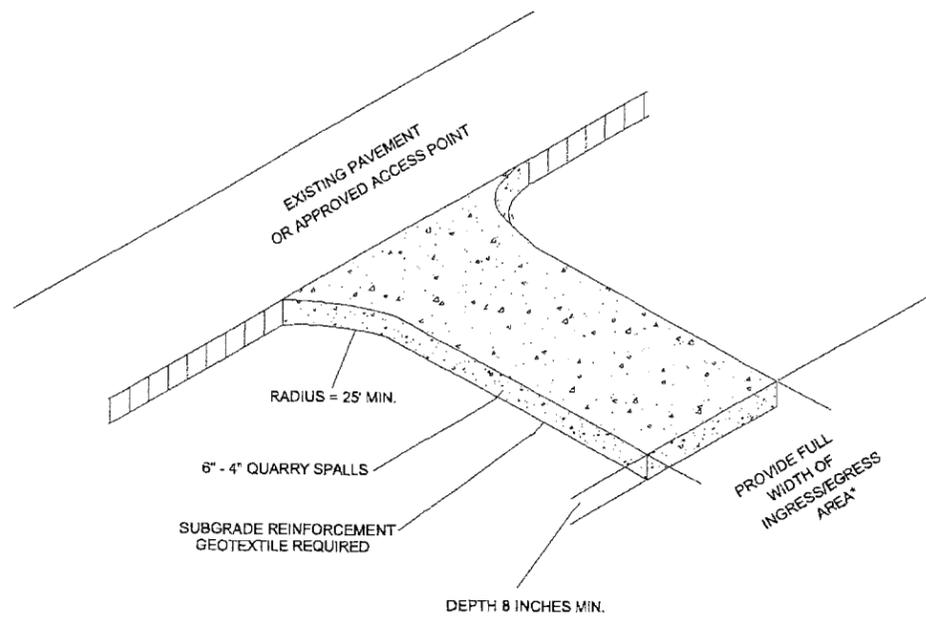
BY	OPRD
DATE	##-##-##
REVISION	##

APPROVED BY	HLW	DESIGNED BY	ALJ	DATE	08/31/2012
CHECKED BY		DRAWN BY			

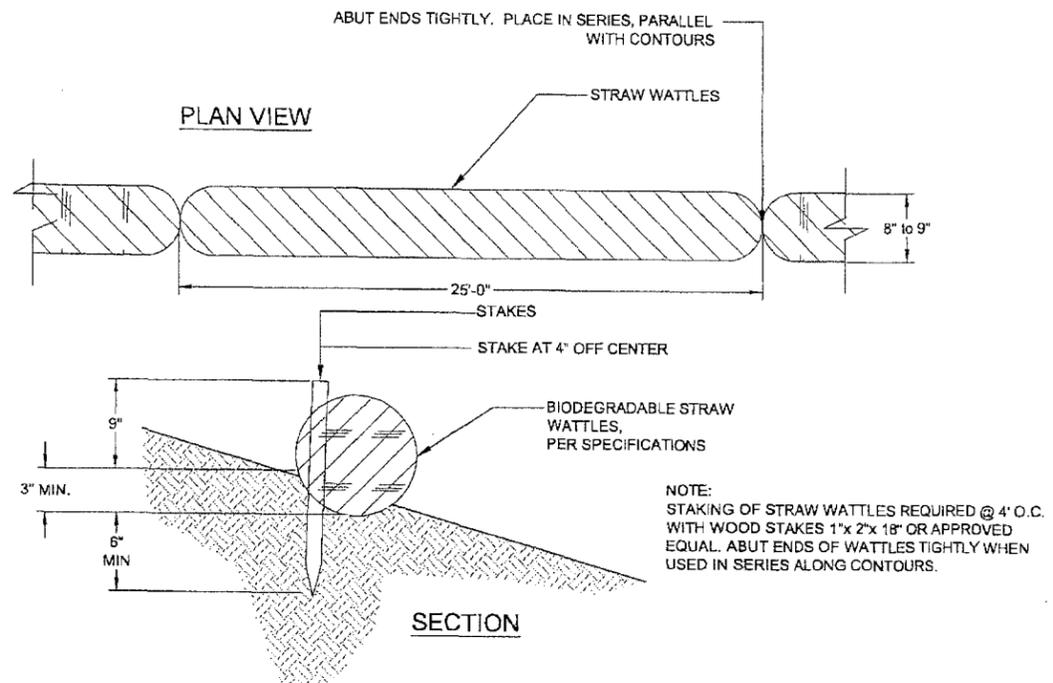


SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
 EROSION & SEDIMENT CONTROL DETAILS  
 OREGON PARKS AND RECREATION DEPARTMENT

SHEET:	EC2
HUB #:	



1 GRAVEL CONSTRUCTION ENTRANCE  
NTS



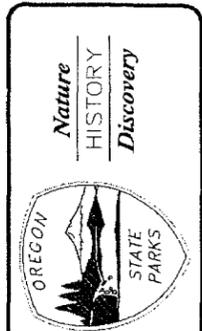
2 STRAW WATTLE  
NTS



RENEWAL DATE 06-30-14

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REVISION	#

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SILVER FALLS CAMPGROUND BRIDGE BANK STABILIZATION  
EROSION & SEDIMENT CONTROL DETAILS  
OREGON PARKS AND RECREATION DEPARTMENT

SHEET:	EC3
HUB #:	