For Department Use Only Development Permit Permit #: 20190462 Permit Type: Type I Ian Sisson Entry Date: 9/4/2019 Clatsop County Community Development lan Sisson Entered By: Ian Sisson 800 Exchange St Ste 100 Assigned To: Astoria, OR 97103 Permit Status: Approved Conditional Ph. (503) 325 - 8611 Fax (503) 338 - 3606 Proposed Use Proposed Use: Other Description: Bridge to replace failed culvert at Canyon Creek on Ecola State Zone: RM Park Road to Indian Beach. Overlay District: GHO, NWI Owner/Project Location Owner: Name: Oregon Parks and Recreation Dept Address: 725 Summer St #C City, State, Zip: Salem, OR 97301 3itus Address: I R S Q S Qq S Taxlot City: State: OREGON 5 10 00 0 0 00800 Applicant/Agent Applicant: Name: Oregon Parks and Recreation Dept.

Address: 725 Summer St #C	Cel	l: () -	
City, State, Zip: Salem, OR 97301	Fax	c: () -	
	Ph. #	# : () -	
	Ce	II: () -	
	Fax	x: () -	
Fees			
<u>Fee Type:</u>	<u>Perm</u>	it Fee Total:	
Planning/Development		\$84.00	
	Total:	\$84.00	
Receipt			

Check #

Pymnt Type

Check

125222580 09/04/2019 \$84.00

Pymnt Date

\$0.00 Balance Due:

Permit Timeline

Entered

Ph. #: (503) 986-0764

Ph. #: (503) 986-0764

Pymnt Amount:

Cell: () -

Fax: ()

Status

Approved Conditi

Date

09/04/2019

09/04/2019

User

Signatures

- 1. For Commercial and industrial uses, include parking and loading plan, sign plan and erosion control plan.
- 2. For residential and other uses, include an erosion control plan.
- 3. Review attached applicant's statement and sign below.

Oregon Parks and Recreation Dept

Payor Name:

I have read and understand the attached APPLICANT'S STATEMENT and agree to abide by the terms thereof.

Applicant Signature:	Date:	
Owner Signature:	Date:	
Agent Signature:	Date:	



Development Permit

For Department Use Only

Clatsop County Community Development 800 Exchange St Ste 100 Astoria, OR 97103

Ph. (503) 325 - 8611

Fax (503) 338 - 3606

Permit #: 20190462

_	_	_			
Pro	ne	rtv	Access	Info	

Access to Property: County Permit Required? State Permit Required?

	Direction	Setbacks		
		Req.	Actual	
F:				
S1:				
S2:				
R:				

Zoning District Requirements

Property Information

Compliance/Permit Requirements

Clatsop County Compliance

Except as noted, the Clatsop County Community Development Department finds the proposed use(s)/action(s) in compliance with the Clatsop County Land & Water Development and Use Ordinance and with the Clatsop County Comprehensive Plan.

The evaluation of the land parcels outlined above is based on the information presented at this time, standards provided in the Clatsop County Land & Water Development & Use Ordinance, and policies of the Comprehensive plan, and the Zoning/ Comprehensive Plan Map.

The applicant or property owner must comply with the conditions noted below and on the attached applicants statement. This permit is not valid unless the conditions are met.

Permit Requirements	Details
Erosion control plan	Applicant responsible for assuring that development does not impact other properties. All disturbed areas must be stabilized with seeding, mulching, landscaping, or other appropriate means. Proper soil erosion and sediment control prevention measures and devices are required on-site at all times.
Plot plan	All development shall occur in accordance with the approved site plan.
Stormwater Drainage plan	Applicant responsible for assuring that development activity does not adversely affect adjoining properties or area (upstream or downstream) drainage facilities.

Entered by: lan Sisson	
Entered Date: 09/04/2019	
Applicants Signature:	Date:
Clatsop County Authorization:	Date:

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Development Permit

Applicant's Statement

- 1. Pertaining to the subject property described, I hereby declare that I am the legal owner of record, or an agent having the consent of the legal owner of record, and am authorized to make the application for a Development Permit/Action so as to obtain the following permits: Building, Sanitation, U.S. Army Corps of Engineers, Oregon Division of State Lands, Oregon Department of Transportation, Oregon Department of Parks and Recreation, or a Clatsop County Road Approach. I shall obtain any and all necessary permits before I do any of the proposed uses or activities. The statements within this application are true and correct to the best of my knowledge and belief. I understand that if the permit authorized was based on false statements, or it is determined that I have failed to fully comply with all conditions attatched to and made a part of this permit, this permit approval is hereby revoked and null and void.
- It is expressly made a condition of this permit that I at all times fully abide by all State, Federal, and local laws, rules, and regulations governing my activities conducted or planned pursuant to this permit.
- 3. As a condition for issuing this Development Permit/Action, the undersigned agrees that he/she will hold Clatsop County harmless from and indemnify the County for any and all liabilities to the undersigned, his/her property or any other person or property, that might arise from any and all claims, damages, actions, causes of action or suits of any kind or nature whatsoever, which might result from the undersign's failure to build, improve or maintain roads which serve as access to the subject property or from the undersign's failure to fully abide by any of the conditions included in or attached to this permit.
- 4. WAIVER OF VESTED RIGHTS DURING APPEAL PERIOD FOR ZONING AUTHORIZATIONS.
 - I have been advised that this Land and Water Development Permit/Action by the Clatsop County Community Development Director may be appealed within twelve (12) calendar days of the date of of permit issuance and authorization (note: if the twelfth day is a Saturday, Sunday or legal holiday, the appeal period lasts until the end of the next day which is not a Saturday, Sunday or legal holiday). I understand that if the approval authorized by the County and referenced above is reversed on appeal, then the authorization granted prior to the end of the appeal period will be null and void. I further understand and consent to the fact that any actions taken by me in reliance upon the authorization granted during the appeal period shall be at my own risk, and that I hereby agree not to attemp to hold Clatsop County responsible for consequenses or damages in the event that removal of improvements constructed during the appeal period is ordered because an appeal is sustained.
- 5. I am aware that failure to abide by applicable Clatsop County Land and Water Development and Use Ordinance 80-14, as amended and Standards Document regulations may result in revocation of this permit or enforcement action by the County to resolve a violation and that enforcement action may result in levying of a fine.
- 6. I understand that a change in use, no matter how insignificant, may not be authorized under this permit and may require a new Development Permit/Action (check first, with the Clatsop County Community Development Department).
- 7. I understand that this Development Permit/Action expires 180 days from the date of issuance unless substantial construction or action pursuant to the permit has taken place. Upon expiration, a new development permit must be obtained.



Clatsop County

Community Development 800 Exchange Street, Suite 100 Astoria, Oregon 97103

Phone 503 325-8611 Fax 503 338-3606

comdev@co.clatsop.or.us www.co.clatsop.or.us

Development Permit

Fee: \$84.00

INSTRUCTIONS:

- 1. Complete form and attach site plan.
- 2. For commercial and industrial uses, include parking and loading plan, sign plan and erosion control plan.
- 3. For residential and other uses, include an erosion control plan.
- 4. Review applicant's statement and sign this form.

Proposed Use: New bridge to replace failed culvert	
Base Zone: RM - Recreation Management O	verlay District(s): GHO Oceanfront
Project Location:	
T_5N R_10W S_07	TL510000000800 Acres 464.02
Owner: Oregon Parks and Recreation Department	Email:_cliff.serres@oregon.gov
Address: 725 Summer St NE, Ste C	City/State/Zip:_Salem_OR_97301
Phone:503.507.5708 mobile	Phone: 503.986.0764
Applicant: Clifton J Serres	Email:
Address:	City/State/Zip:
Phone:	Phone:
Other Name:	Email:
Address:	City/State/Zip:
Phone:	Phone:
SIGNATURES: I have read and understand the statements ON owners of record, per Clatsop County Assessment records, mu corporations, trusts, etc. must provide documentation of signi	st sign the application. Representatives of public agencies, ng authority.
Signature: Wiftin Jenn	Date: 10/08/18
Signature:	
Signature:	Date:
Signature:	Date:

APPLICANT'S STATEMENT Page 2 of 3

- 1. Pertaining to the subject property described, I hereby declare that I am the legal owner of record, or an agent having the consent of the legal owner of record, and am authorized to make the application for a Development Permit/Action so as to obtain the necessary building permits, sanitation permits, US Army Corps of Engineers permits, Oregon Division of State Lands permits, Oregon Department of Transportation permits, Oregon Department of Parks and Recreation permits, or Clatsop County road approach permits. I shall obtain any and all necessary permits and complete the conditions of approval as required herein within 180 days of the issuance of this permit before I do any of the proposed uses or activities. The statements within this application are true and correct to the best of my knowledge and belief. I understand that if the permit authorized was based on false statements or misrepresentation or it is determined that I have failed to fully comply with all conditions attached to and made a part of this permit, this permit approval is hereby revoked and null and void.
- 2. It is expressly made a condition of this permit that I at all times fully abide by all state, Federal and local laws, rules, regulations governing my activities conducted or planned pursuant to this permit.
- 3. As a condition for issuing this Development Permit/Action the undersigned agrees that he/she will hold Clatsop County harmless from and indemnify the County for any and all liabilities to the undersigned, his/her property, or any other person or property, that might arise from any and all claims, damages, actions, causes of action or suits of any kind or nature whatsoever which might result from the signer's failure to build, improve or maintain roads which serve as access to the subject property or from the undersign's failure to fully abide by any of the conditions included in or attached to this permit.
- 4. WAIVER OF VESTED RIGHTS DURING APPEAL PERIOD FOR ZONING AUTHORIZATION. I have been advised that this Land and Water Development permit/Action by the Clatsop County Community Development Director may be appealed within twelve calendar days of the date of permit issuance and authorization (note: if the twelfth day is a Saturday, Sunday or legal holiday, the appeal period lasts until the end of the next day which is not a Saturday, Sunday or legal holiday). I understand that if the approval authorized by the County and referenced above is reversed on appeal, then the authorization granted prior to the end of the appeal period will be null and void. I further understand and consent to the fact that any actions taken by me in reliance upon the authorization granted during the appeal period shall be at my own risk, and that I hereby agree not to attempt to hold Clatsop County responsible for consequences or damages in the event that removal of improvements constructed during the appeal period is ordered because an appeal is sustained.
- 5. I am aware that failure to abide by applicable Clatsop county Land and Water Development and Use Ordinance 80-14, as amended, and Standards Document regulations may result in revocation of this permit or enforcement action by the County to resolve a violation and that enforcement action may result in levying of a fine.
- I understand that a change in use, no matter how insignificant, may not be authorized under this
 permit and may require a new Development Permit/Action. You should check with the Clatsop County
 Community Development Department.
- This Development Permit/Action expires 180 days from the date of issuance unless substantial
 construction or action pursuant to the permit has taken place. Upon expiration, a new development
 permit must be obtained.



DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS, PORTLAND DISTRICT P.O. BOX 2946 PORTLAND, OR 97208-299

May 23, 2019

Regulatory Branch Corps No.: NWP-2019-248

Mr. Jeffrey Wagner Oregon Parks and Recreation Department 12735 NW Pacific Coast Highway Seal Rock, Oregon 97376 jeffrey.wagner@oregon.gov

Dear Mr. Wagner:

The U.S. Army Corps of Engineers (Corps) received your permit application requesting a Department of the Army (DA) permit to replace an existing 12 foot diameter corrugated metal culvert with a bridge. The project is located in Canyon Creek, Cannon Beach, Clatsop County, Oregon at Latitude/Longitude: 45.9230°, - 123.9677°. Your application has been assigned Corps No.: NWP-2019-248. Please refer to this number in all correspondence. Based on the information provided, we have determined a DA permit is not required for the proposed work.

Section 404 of the Clean Water Act (Section 404) generally requires that you obtain a DA permit prior to discharging dredged or fill material into waters of the U.S., including wetlands. However, discharges of dredged or fill material that may result from certain activities are exempt from regulation under Section 404.

Federal Regulation 33 CFR 323.4(a)(2) states that the maintenance, including emergency reconstruction of recently damaged parts, of currently serviceable structures such as dikes, dams, levees, groins, riprap, breakwaters, causeways, bridge abutments or approaches, and transportation structures generally does not require a DA permit. Maintenance does not include any modification that changes the character, scope or size of the original fill design. Emergency reconstruction must occur within a reasonable period of time after damage occurs in order to qualify for this exemption.

In addition to the above requirements, the discharge of dredged or fill material must meet two additional requirements to qualify for an exemption: (1) the discharged material may not contain a toxic pollutant listed under Section 307 of the Clean Water Act and (2) the discharge may not convert an area of waters of the U.S. to a use to which it was not previously subject where the flow, circulation, or reach is impaired or reduced. Please contact us for a DA permit if your proposal does not meet these requirements.

Proposed is the construction of a bridge spanning Canyon Creek on Indian Beach Road in order to replace an existing 12 foot diameter corrugated steel culvert. The bridge will meet Oregon Department of Fish & Wildlife's (ODFW) criteria for fish passage. The existing culvert will be removed, concrete foundations will be cast in place in uplands, pre-cast concrete walls will be set on the foundations, engineered beams will be set onto the wall structure, and then the road surface will be paved. The streambed will be graded where the culvert was located and approximately 103 cubic yards (cy) of streambed cobbles, 8 cy of streambed boulders, and 248 cy of native soil and streambed material will be placed within approximately 2056 square feet (0.05 acre) below the Ordinary High Water Mark of Canyon Creek, which is within the original fill prism.

Based upon information provided in your permit application, we have determined your proposed activities are exempt from Section 404, and a DA permit is not required. The Corps also regulates work in navigable waters of the U.S. under Section 10 of the Rivers and Harbors Act. However, since the proposed work would not occur in a navigable water of the U.S., it will not require a Section 10 DA permit. Although a DA permit is not required, other local, State, or Federal requirements may still apply.

Our determination regarding the proposed work is based on the project description and construction methods provided in your permit application. You are cautioned that any change in the location or plans of the work may result in activities that require a DA permit.

Please note, this letter is not an official jurisdictional determination or concurrence of the geographic limits of waters at this site. If you have any questions, please contact Ms. Danielle Erb at the letterhead address, by telephone at (503) 808-4368, or E-mail: danielle.h.erb@usace.army.mil.

Sincerely,
WHITE.MELOD Digitally signed by WHITE.MELODY.J.1292348157
Y.J.1292348157 Date: 2019.05.23 12:36:42
Original Property Street Propert

Enclosure

CC:

Oregon Department of State Lands (dan.cary@state.or.us)
Oregon Department of Environmental Quality (401applications@deq.state.or.us)
Oregon Department of Land Conservation and Development (patty.snow@state.or.us; elizabeth.i.ruther@state.or.us)

Issue Date: 7/1/2019 In-Water Work Period: 5/1/2019 In-Water W	Expiration Date: to	Ineligible Date Luth on File: Dired by Applicant:				
	AND	דייודע איזו ייווי איזו ייוו				
NOTICE FOR EXEMPTION OF CERTAIN VOLUNTARY HABITAT RESTORATION ACTIVITIES VOLUNTARY HABITAT RESTORATION ACTIVITIES						
1. RESPONSIBLE PERSON CONT	ACT INFORMATION					
Name (print)	Affiliation (compan	y or agency)				
Jeffrey Wagner	Oregon Parks & F	Oregon Parks & Recreation Department (OPRD)				
Mailing address or PO Box						
12735 NW Pacific Coast Hwy						
City	State	07076				
Seal Rock	OR	97376				
Phone number	Cell or alternate n	umber				
(541) 563-8507	(971) 239-2133	A STATE OF THE STA				
E-mail	EXT 0.770 (200) 25 / 76 / 76 / 77 / 77 / 77 / 77 / 77 / 7	Fax number				
jeffrey.wagner@oregon.gov	(541) 563-8508					
2. LANDOWNER INFORMATION	if different than respons	ible party)				
Name (print)						
Oregon Parks & Recreation Departmen	nt					
Mailing address or PO Box						
725 Summer St NE Ste C						
City	State	Zip Code				
Salem	OR	97301				
Phone number (503) 986-0764	E-mail cliff.serres@orego	on.gov				

3. PROJECT	LOCATION INFORMATION		THE PERSON NAMED IN		
County: Clats	sop	Neare	st City: Cannon Beach		
Physical addr	ess or description: 84318 Ecola Pa	ark Road			
Stream	Name of stream Canyon Creek	Tributa Felden	ry of neimer Drainage	River mile 2.6	
Is this designa	ated essential salmon habitat (ESF		 		
☐ Wetland	Cowardin Class		HGM		
LEGAL DESC (Check the de ⊠ Project wit □ Project wit	ND LONGITUDE (In Decimal Degice CRIPTION FOR PROJECT escription that applies and enter information that applies and enter information that applies are enter information to the control of the multiple removal-fill sites. Provide the following information to the control of the	formation the inform de the fol	below) nation for the removal-fill si lowing for the project cente	er point "Start."	
1 1 1	atitude: <u>45.931</u> Start Long	3		<u>300</u>	
Name of the contract of the co	ntitude: <u>45.931</u> End point N Range: <u>10W</u> Section: <u>7</u> ¼		A District The State of the Sta	_ 300	
4. PROJEC	T INFORMATION	I SAUKE			
Anticipated	project dates: Start (mo) JUL (yr <u>) 2019</u>	Completion (mo) SEI	P (yr <u>) 2019</u>	
5. ACTIVITI	ES FOR THIS PROJECT. Che	ck all th	at apply.		
☐ Minin	nal Disturbance within ESH Wat	ters <i>Na</i>	Fee		
Piling	Placement and Removal in No	n-Tidal \	Naters No Fee		
☐ Temporary Impacts to Non-tidal Wetlands Fee May Apply					
☐ Waterway Bank Stabilization No Fee					
Certain Transportation-Related Activities Fee May Apply					
A TOTAL STATE OF THE STATE OF T	Removing and Disposing of Sediment Behind Tidegates and Hydraulically Closed Perimeters Fee May Apply				
X Wate	rway Habitat Restoration No F	ee			
☐ Wetla	□ Wetland Ecosystem Restoration No Fee				
	e for Exemption of Certain Volu				

General Authorization for Waterway Habitat Restoration

OAR 141-089-0780 through 141-089-0795

Project Activities (Check all that apply):
Barrier removal: Fill: 374 cubic yards Removal: 312 cubic yards
☐ Artificial Barrier Type: ☐ Less than 200 cubic yards total for this project
Grade control structures: Fill: cubic yards Removal: cubic yards
Less than 100 cubic yards for every ½ mile of waterway Does not create a barrier to fish passage Structure mimics natural feature Does not require annual maintenance
☐ Fish and wildlife passage: Fill: cubic yards Removal: cubic yards ☐ Less than 100 cubic yards for every ½ mile of waterway ☐ ODFW notified
Fish screening install or replace: Fill: cu. yds. Removal: cu. yds cu. yds Less than 100 cubic yards and ODFW notified
Low profile porous weirs: Fill: cubic yards Removal: cubic yards 100 cubic yards or less of removal-fill activity per ½ mile of waterway Each structure occupies less than 40% pre-construction bankfull width
Side channel/alcove habitat restoration: Fill: cu. yds. Removal: cu. yds 200 cubic yards or less of removal-fill Removal of artificial barrier only to reconnect naturally formed side channel or alcove
Remove or Replace Existing Culverts and Tide Gates for Fish Passage:
The new culvert or tidegate is not exempt, and The project is consistent with ODFW Fish Passage Statutes in writing by ODFW. Fish Passage Application Sent; awaiting efficient notification Fish Passage Application
For Complete Notification you must attach the following:
Project Description: Brief description of project and construction methods to be used. Provide sufficient detail to demonstrate compliance with the conditions pertaining to anchoring, rock and gravel placement, use of natural materials and not requiring annual maintenance.
Resource characteristics: Description of the biological and physical characteristics of the waterway. Include any navigation, fishing or recreational use.
(Continued on next page)

General Authorization for Removing and Disposing of Sediment Behind Tidegates and within Hydraulically Closed Perimeters

OAR 141-089-0760 through 141-089-0775/

Section 2010 18 1000 Visiting Control of the Contro
Eligibility (Check all that apply):
Project is upstream from a tidegate or within a hydraulically closed perimeter
Project (Check all that apply):
☐ Removal from below ordinary high water:
ft. length x ft. width x ft. depth = cubic feet
cubic feet (divide by 27 for cubic yards) = cubic yards
Project will not create larger dimensions than original construction
Fill into adjacent wetlands:
cubic yards (cubic feet removed divided by 27) placed in adjacent wet pasture
wetlands. Do not count fill placed in uplands.
Disposal of material will not create uplands from wetlands
Fill cubic yards + Removal cubic yards = cubic yards disturbance
For Complete Notification you must attach the following:
Fee Due: \$250.00 (when 50 or more cubic yards total disturbance).
Project Description: Description of project and construction methods to be used. Provide location of downstream tidegate or description of the hydraulically closed perimeter with sufficient detail to demonstrate compliance with the conditions and eligibility requirements according to the applicable General Authorization.
Resource characteristics: Description of the biological and physical characteristics of the wetland and waterway. Include HGM and Cowardin Class and current land use. Indicate if any wetland type of conservation concern is within the project area. (For help see: http://www.oregon.gov/dsl/WW/Documents/wetland cons concern.pdf)
Project location map: Sufficient detail to allow person to drive to the site from the nearest city/town or major highway intersection. Show line of the <i>entire project</i> , location of disposal area, location of tidegate.
Project area photo(s): Photo(s) of existing conditions required for all activity areas.
Plan view drawing(s): Include existing drainages, scale, jurisdictional boundaries (ordinary high water line or wetland boundary if delineated), clear identification of areas proposed for removal or fill, location of cross-section(s).
Cross-section drawing(s): Include existing and proposed elevations, horizontal and vertical scale; jurisdictional boundaries (ordinary high water line or wetland boundary if delineated); proposed water elevation.
DSL Use Only: DSL Determination Date RC Initial

Project location map: Sufficient detail to allow person to drive to the site from the nearest city/town or major highway intersection. Show boundaries of the entire project.	ne ect.
Project area photo(s): Photo(s) of existing conditions required for all activity are	as.
Plan view drawing(s): Include existing and proposed contours, scale, ordinary water lines; clear identification of areas proposed for removal or fill, location of cros section(s).	nigh s-
Cross-section drawing(s): Include existing and proposed elevations, horizontal vertical scale; ordinary high water line; proposed water elevation.	and
Note : Drawings must contain sufficient information to demonstrate compliance with the conditions and eligibility requirements of the applicable General Authorization. Do not use "typical" drawings.	
DSL Use Only: DSL Determination eligible Date 7 11/2019 RC Initial	-

General Authorization for Wetland Ecosystem Restoration

OAR 141-089-0800 through 141-089-0815

Project Activities (Check all that apply):
Ground alteration for vegetation Low earthen berms/spillways: ft.
Floodplain contouring Shallow excavations for macrotopography
Grading for microtopography Removal of structures
☐ Removal of accumulated material
Eligibility Verification Requirements: All projects must meet the following criteria to be eligible. Please have documentation available upon request, to verify each of the
following statements:
Statement of Eligibility:
I, the responsible party for this notification, agree that the project proposed meets all of the
following eligibility criteria and have documentation, immediately available upon request, to verify the listed criteria have been met.
☐ This project is compatible with watershed management plans.
This project will not convert wetland to upland, or one wetland ecosystem to another aquatic use.
This project will have minimal adverse effect to adjacent and existing onsite wetlands.
☐ This project will not introduce non-native species.
☐ This project is consistent with wetland conservation plans (West Eugene only).
For Complete Notification you must attach the following:
Description of project goals and objectives for achieving wetland ecosystem restoration to include but not limited to how the proposed project will repair or return natural or historic functions.
Construction methods: Description of construction methods, methods to avoid impacts to undisturbed wetlands on or adjacent to the project area, and the proposed planting plan. Provide sufficient detail to demonstrate compliance with the conditions and eligibility requirements of the applicable General Authorization.
(Continued on next page)

6. Signature

By signing below, I understand:

- The information provided herein is, to the best of my knowledge and belief, true, complete, and accurate.
- I am responsible for complying with the requirements and conditions set forth in the applicable administrative rules for General Authorizations and for Voluntary Habitat Restoration activities.
- This approval does not authorize trespass on the lands of others. The responsible party shall obtain all necessary access permits or rights-of-way before entering lands owned by another.
- If this is state-owned submerged or submersible land, there may be additional easements, royalties and/or other requirements by DSL's <u>Aquatic Resource Management Program</u>.
- This approval does not authorize any work that is not in compliance with local zoning or other local, state or federal regulation pertaining to the operations described herein. The responsible party shall obtain necessary approvals and permits before proceeding under this authorization.
- All work done under this authorization must comply with OAR Chapter 340, Standards of Quality for Public Waters of Oregon.
- When listed species are present, the responsible party must comply with the State Endangered Species Act and the Federal Endangered Species Act.
- Violations of the terms and conditions of this authorization are subject to administrative and/or legal action, which may result in revocation of the approval or damages. The responsible party is responsible for the activities of all contractors or other operators involved in work done at the site or under this approval.
- The Department of State Lands may, at any time, by notice to the responsible party, revoke or modify this approval if it determines the project scope or conditions of the General Authorization are insufficient to minimize individual or cumulative environmental effects in accordance with OAR 141-085.
- Employees of the Department of State Lands and all duly authorized representatives of the Director shall be permitted access to the project area at all reasonable times for the purpose of inspecting work performed under this approval.
- In issuing this authorization, the Department of State Lands makes no representation regarding the quality or adequacy of the approved project design, materials, construction, or maintenance except to approve the project's design and materials, as set forth herein, as satisfying the resource protection, scenic, safety, recreation, and public access requirements of ORS Chapter 196 and related administrative rules.
- Responsible person shall defend and hold harmless the State of Oregon, and its officers, agents, and employees from any claim, suit, or action for property damage or personal injury or death arising out of the design, material, construction, or maintenance of the approved improvements.
- When approval from ODFW for Fish Passage is required, written autorization must be received from ODFW prior to ground disturbing activities.
- A permit from the U.S. Army Corps of Engineers may also be required.

		W	
Signature	M45×	Date 6/	4/19
	// // - / /		

OR

Please mail completed form to DSL at the appropriate regional office for your project location:

<u>DSL – West of the Cascades:</u> Department of State Lands 775 Summer Street, Suite 100

Salem, OR 97301-1279

Phone: 503-986-5200 Fax: 503-378-4844

DSL - East of the Cascades:

Department of State Lands 1645 NE Forbes Road, Suite 112

Bend, Oregon 97701

Phone: 541-388-6112 Fax: 541-388-6480



Department of Fish and Wildlife

West Region 4907 3rd Street Tillamook, OR 97141 (503) 842-2741 Fax (503) 842-8385 www.odfw.com



June 27, 2019

Jeffrey Wagner
Oregon Parks and Recreation Department
12735 NW Pacific Coast Hwy
Seal Rock, OR 97376

RE: Fish Passage Approval for Ecola Park Rd Bridge over Canyon Creek (PA-01-0156)

Dear Mr. Wagner:

The Oregon Department of Fish and Wildlife (ODFW) has reviewed the design plans for the OPRD's bridge over Canyon Creek at Ecola Park Road. We have determined the design plans to construct the crossing is consistent with the state's fish passage design criteria for road-stream crossings, as defined in OAR 635-412-0035(1) and (3) and therefore approve the projects as required by Oregon fish passage law (ORS 509.585).

This ODFW fish passage approval for the bridge over Canyon Creek at Ecola Park Road (PA-01-0156) is contingent on specific operational items which include:

- All in-water work, defined as work at or below the ordinary high water mark elevation of the project area, shall be complete during the appropriate ODFW in-water work period, or as otherwise defined by ODFW.
- 2. The ODFW North Coast Watershed District Fish Biologist in Tillamook shall be notified prior to the implementation of the project.
- 3. Fish salvage and rescue shall be performed prior to commencement of any in-water work, including work area isolation and temporary water management. Pursuant to OAR 635-412-0035 (10e), prior to in-stream construction activities, all fish must be safely collected, removed from the construction site or dewatered reach, and placed in the flowing stream by an authorized person in possession of a separate valid permit issued by ODFW. An Oregon Scientific Take Permit (OR-STP) from ODFW is required to conduct fish salvage in Oregon and other additional authorization may be needed from NMFS or USFWS if work is in ESA waters. OR-STP's can take up to 4-6 weeks for processing and can be applied for at: https://apps.nmfs.noaa.gov/index.cfm or if you have questions about OR-STP permitting, please contact fish.research@state.or.us.

- 4. Temporary water management and work area isolation measures shall not restrict downstream fish passage during construction for the project.
- 5. As per ORS 509.601, The Oregon Department of Parks and Recreation shall be responsible for all maintenance required such that the project provides adequate passage for native migratory fish. Failure to maintain fish passage at the new stream crossings for the duration of this approval shall constitute a violation of this approval and applicable fish passage laws (ORS 509.585 and 509.610).
- Monitoring and reporting on the effectiveness of passage of native migratory fish is required for the project.
- Monitoring reports shall be completed and submitted by you, or your designee, to the ODFW Statewide Fish Passage Program Coordinator and the ODFW North Coast Watershed District Fish Biologist annually for a period of 5-years after the completion of the project.
- 8. If monitoring by the Applicant, your designee, or ODFW indicates that volitional fish passage is questionable or not provided, the Applicant in consultation with the ODFW, shall determine the cause and, during a work period approved by the ODFW, shall modify the project to rectify fish passage problems as necessary.
- 9. The ODFW shall be allowed to inspect the project at reasonable times for the duration of this approval. Unless prompted by emergency or other exigent circumstances, inspection shall be limited to regular and usual business hours, including weekends.
- It is the responsibility of the Applicant to comply with all necessary and required local, county, state, and federal approvals and permits.
- 11. This approval in no way purports or authorizes take of a federally listed species.

Please retain this correspondence for your records, as this documents ODFW's approval of fish passage for the OPRD's bridge over Canyon Creek at Ecola Park Road (PA-01-0156) This approval is solely for the purpose of fulfilling Oregon fish passage statutory requirements and responsibilities administered by the Oregon Fish and Wildlife Commission or the Department and does not satisfy any other Department, federal, state, or local laws, rules, or regulations, including but not limited to State or Federal Endangered Species Acts, any applicable water rights, approvals or other certificates administered by regulatory authorities.

Please continue to coordinate with me as the project advances towards implementation. You may contact me District at 503-842-2741 x237 or by email at Michael.Sinnott@state.or.us if you have any questions regarding the content of this fish passage approval.

Sincerely,

Michael V. Sinnott

Assistant District Fish Biologist

Oregon Department of Fish and Wildlife

4907 Third Street

Tillamook, OR 97141

Cc: Greg Apke Robert Bradley Cliff Serres

ODFW FISH PASSAGE APPROVAL #PA-01-0156

Ecola Park Road Bridge at Canyon Creek
• ODFW will use the following criteria to determine the level of review required.

For ODFW Use Only							
	YES	NO	N/A				
1. Is the bed within the crossing as wide as the active channel:	\boxtimes						
2. Is the bed within the culvert at the same slope, and at grades continuous with, the surrounding stream:		П	\boxtimes				
3a. If the crossing is open-bottomed, is there 3 feet of vertical clearance between the active channel width elevation and the inside top of the crossing:							
3b. If the crossing is closed-bottomed, will bed depth within the culvert be 20-50% of the crossing height:			\boxtimes				
4. Is the bed material that will be used sufficient to assure water depth will be similar to that in the surrounding stream (i.e., will not go sub-surface prematurely):	⊠						
5. Are the bed material or retention measures that will be used sufficient to assure that the bed will be maintained through time:	\boxtimes						
6. If the crossing is longer than 40 feet, will partially-buried, over-sized rock be placed within the crossing's bed:	⊠						
7. Will the bed within the crossing be placed during construction:	\boxtimes						
8. If trash racks are present, are they above the active channel width elevation and do vertical bars have at least 9 inches of clear space between them:			\boxtimes				
9. If there is an upstream pond, wetland, or backwater area, has its desired state after construction been determined, and have these considerations been addressed in the design:			\boxtimes				
10. Are upstream grade control measures satisfactory:			×				
11. Are the construction timing and measures adequate based on the location:	\boxtimes						
12. Are there plans to maintain the crossing:	\boxtimes						
 If all answers are "Yes" or "Not Applicable", this plan is eligible for approval by an ODFW biologist. If any answer is "No" or there are other concerns, consult with the Fish Passage Coordinator. 							
APPLICATION IDENTIFIER: OPRD, Ecola Park Road Bridge ODFW # PA-01-0156 DATE RECEIVED: 06/14/2019							
APPROVED SIGNATURE: DA DENIED TITLE: Assistant District Fish Biologist CONDITIONS: See contingencies listed in authorization letter.	TE: <u>06</u> /	/27/201	<u>19</u>				
			- [

Canyon Creek (Ecola State Park Road) Bridge Bridge Construction

TABLE OF CONTENTS FOR SPECIAL PROVISIONS

PROJECT WAGE RATES

SECTION 00210 - MOBILIZATION	
SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC	3
SECTION 00225 - WORK ZONE TRAFFIC CONTROL	
SECTION 00245 - TEMPORARY WATER MANAGEMENT	4
SECTION 00280 - EROSION AND SEDIMENT CONTROL	7
SECTION 00290 - ENVIRONMENTAL PROTECTION	8
SECTION 00305 - CONSTRUCTION SURVEY WORK	15
SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS	16
SECTION 00320 - CLEARING AND GRUBBING	16
SECTION 00330 - EARTHWORK	
SECTION 00340 - WATERING	17
SECTION 00390 - RIPRAP PROTECTION	18
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL	
SECTION 00440 - COMMERCIAL GRADE CONCRETE	
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION	5162
PIPE	19
PIPESECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS	19
SECTION 00480 - DIVANAGE CONDS	
SECTION 00501 - BRIDGE REMOVAL SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL	19
SECTION 00530 - STEEL REINFORCEMENT FOR CONCRETESECTION 00540 - STRUCTURAL CONCRETE	
SECTION 00540 - STROCTORAL CONCRETE	
SECTION 00582 - BRIDGE BEARINGS	
SECTION 00587 - BRIDGE RAILS	
SECTION 00591 - SPRAY WATERPROOFING MEMBRANE	23
SECTION 00640 - AGGREGATE BASE AND SHOULDERS	23
SECTION 00744 - ASPHALT CONCRETE PAVEMENT	
SECTION 00810 - METAL GUARDRAIL	
SECTION 01030 - SEEDING	
SECTION 01040 - PLANTING	26
SECTION 01091 - CONSTRUCTED STREAMBED	26
SECTION 02820 - METAL GUARDRAIL	

BID SCHEDULE

OREGON Fieb & Wildlife

OREGON DEPARTMENT OF FISH AND WILDLIFE

Fish Passage Plan for a Road-Stream Crossing

 If you unlock and re-lock this Form, information already entered may be lost in certain versions of MS Word.

• If your project includes multiple crossings, please complete this form for each crossing.

APPLICANT INFORMATION	ON	.,,			
APPLICANT: Jeffrey Wagner TITLE: Construction Projection					
ORGANIZATION:	Oregon Parks & Recreation De		•		
ADDRESS:	12735 NW Pacific Coast Hwy				
CITY:	Seal Rock	STATE: C	OR ZIP: 97376		
PHONE:	(541) 563-8507				
FAX:	(541) 563-8508				
E-MAIL ADDRESS:	jeffrey.wagner@oregon.gov				
SIGNATURE:	113		DATE: 6/14/19		
AUTHORIZED AGENT (1/ 1/1)	Clifton Serres	TITLE: E	ngineering Manager		
ORGANIZATION:	Oregon Parks & Recreation De		BactiviB tivarimBet		
ADDRESS:	725 Summer St NE Ste C	-			
CITY:	Salem	STATE: C	R ZIP: 97301		
PHONE:	(503) 986-0764				
FAX:	(503) 986-0792				
E-MAIL ADDRESS:	cliff.serres@oregon.gov				
SIGNATURE:			DATE:		
OWNER (if different than Applicant):		TITLE:			
ORGANIZATION:					
ADDRESS:					
CITY:		STATE:	ZIP:		
PHONE:					
FAX:					
E-MAIL ADDRESS:					
SIGNATURE:			DATE:		
LOCATION					
COUNTY	Clatsop		**		
• ROAD	Ecola Park Road				
• RIVER/STREAM	Canyon Creek				
• TRIBUTARY OF					
• BASIN					
	Longitude: -123.9677°V	w i	atitude: 45.9230°N		
• LEGAL DESCRIPTION		men .	The second secon		
		Tax Map #:			
		Tax Lot #:	800		
	Range: 10W				

a geographic projection using NAD_83 and formatted as decimal degrees to at least 4 places

STREAM CROSSING INFORMATION

Please indicate measurement units where applicable and see footnotes for supporting descriptions of the information requested.

REP	V CROSSING LACEMENT OF EXISTING CROSSING DIFICATION OF EXISTING CROSSING	
EXISTING CROSSING	TYPE/SHAPE MATERIAL LENGTH INSIDE DIAMETER (if round) OR INSIDE RISE (Height) AND INSIDE SPAN (Width) CULVERT SLOPE DOES IT CONTROL AN UPSTREAM POND, WETLAND, BACKWATER AREA, OR WATER	. Corrugated Metal Pipe . 52' . 12' . N/A . N/A . 0.2%
STREAM	RIGHT? d	. 22' . 1.58% . 2.24% . Sands, gravel, and cobbles . ~4"
PROPOSED CROSSING	• TYPE/SHAPE • MATERIAL • LENGTH • INSIDE DIAMETER (if round)	Bridge Prestressed concrete slabs on reinf. concrete abutments 31' N/A 9' 41'-8" 1.59% 1.5' 1.5' 1.59% Mix of fines and gravels, cobbles, and boulders 15% 75% 0% 10% See attached documents No bed retention measures are required for this project No grade control measures are required for this project N/A
STRUCTION	DATE WORK WILL BEGIN DATE WORK WILL BE COMPLETED. DETAILS "	. Early Sep 2019 . Mid Nov 2019

INTENANCE	WILL THE CROSSING BE INSPECTED FOR DEBRIS AND BED RETENTION (WITHIN,			
	BELOW, AND ABOVE THE CROSSING) AT LEAST ANNUALLY AND AFTER STORM			
	EVENTS? Y	es	\boxtimes	No 🗌
W	• IF NEEDED, WILL REMEDIAL MEASURES BE TAKEN AS SOON AS POSSIBLE? Y	es	\boxtimes	No 🗌

- e.g., bridge, open-bottomed arch, pipe arch/squashed, round, rectangular
- e.g., reinforced concrete, concrete, wood, plastic, corrugated metal, metal
- a if "Yes", explain how these will be addressed in a separate attachment
- "ACW" is the active channel width, which is the stream width between the ordinary high water lines, or at the channel bankfull elevation if the ordinary high water lines are indeterminate; ordinary high water lines are not the same as the wetted width and are typically determined by changes on the bank in vegetation, changes in sediment size and/or color, water lines on the bank, trees, or leaves, or the point where debris (e.g., needles, leaves, twigs, cones) accumulation begins
- 3 measurements 20 feet apart should be averaged; begin measurements approximately 10 ACWs from the inlet (upstream) or outlet (downstream) of the crossing if this distance is outside of the influence of existing artificial obstructions and prior to adjoining tributaries as you move away from the crossing (if not, take measures at locations which fulfill these requirements); indicate measurement locations on the Profile Design Drawing
- 8 take measurements away from the crossing and at the point where ACW measurement begins
- ^h D_{100} is the average diameter of the 10 largest, naturally-occurring rocks in the stream reach; $D_{150} = D_{100} \times 1.5$; $D_{200} = D_{100} \times 2$
- i "bed" refers to the stream bed within or under the crossing structure
- depth of fill material or countersinking/embedding (excluding protruding over-sized rock) at the crossing's inlet
- depth of fill material or countersinking/embedding (excluding protruding over-sized rock) at the crossing's outlet
 these are measures outside of the crossing structure intended to prevent up- or downstream channel degradation,
 especially important to consider in locations where an existing smaller culvert is being replaced and there is the
 potential for upstream channel degradation (i.e., a "headcut") and associated off-site property or passage
 problems
- m e.g., bed retention measures, weirs, baffles, trash racks, aprons, retaining walls, overflow pipes, channel restoration/scour remediation measures
- unless already described in an accompanying Department of State Lands Removal-Fill Application, include a description of a) temporary downstream passage, upstream passage, screening, and bypass measures, b) worksite isolation measures, c) fish salvage (note: an ODFW Fish Take Permit may be necessary), d) sediment and erosion control measures, and e) site restoration measures. For more details on Oregon Fill Removal Law see the Oregon Division of State Lands Removal-Fill Guide at http://oregonstatelands.us/DSL/PERMITS/rfg.shtml.

ADDITIONAL INFORMATION

Provide this information only if the bed within the proposed crossing is not as wide as the active channel width or will not be embedded.

	High Design Flow °	Low Design Flow P
Flow q (cfs)		
Water Depth in Crossing (in.)		
Water Velocity in Crossing (fps)		
Water Drop at Inlet (in.)		
Water Drop at Outlet (in.)		
Pool Depth Below Outlet (in.)		
Water Drop at Weirs/Baffles (in.)		
Pool Depth Below Weirs/Baffles (in.)		
Depth of Nappe s at Weirs/Baffles (in.)	***************************************	

^o High Design Flow is the mean daily average stream discharge that is exceeded 5 percent of the time during the period when ODFW determines that native migratory fish require fish passage

P Low Design Flow is the mean daily average stream discharge that is exceeded 95 percent of the time, excluding days with no flow, during the period when ODFW determines that native migratory fish require fish passage

⁹ attach a description of the methodology, calculations, and assumptions used to determine the high and low design flows

tdrop should be measured from the upstream water surface elevation to the downstream water surface elevation

DESIGN DRAWINGS

Please attach the following design drawings with the specified information on them.

-- PLAN, including:

- · active channel (i.e., ordinary high water or bankfull lines)
- · existing crossing and additional structures
- · proposed crossing and additional structures
- dimensions

Z -- PROFILE, including:

- existing grade (measured at the deepest part of the stream channel from 10 ACWs downstream of the outlet [i.e., downstream end of crossing] to 10 ACWs upstream of the inlet [i.e., upstream end of crossing], at 5-foot intervals), including road
- · existing crossing and additional structures
- proposed grade (measured at the deepest part of the stream channel from 10 ACWs downstream of the outlet to 10 ACWs upstream of the inlet, at 5-foot intervals), including road
- · proposed crossing, bed, and additional structures
- dimensions
- location of STREAM CHANNEL CROSS-SECTIONS (see below), ACW measurements, and Slope measurements
- water surface elevations at high and low design flows for the proposed crossing, if the proposed crossing will not be as wide as the active channel width or will not be embedded
- CROSS-SECTION OF PROPOSED CROSSING, including bed details
 STREAM CHANNEL CROSS-SECTIONS (2 cross-sections total, with one located downstream where the ACW measurements begin and one located upstream where the ACW measurements begin; measurements should be taken at 1-foot intervals perpendicular to the flow of the stream and should encompass the entire active channel plus 0.5 ACW on each side of the stream [for a total cross-section measurement of 2 x ACW]; measurements may be taken with survey equipment or by measuring the distance from a level line to the bottom of the streambed or ground)
- -- DETAILS OF ADDITIONAL STRUCTURES (e.g., grade control measures, bed retention measures, weirs/baffles, trash racks, aprons, retaining walls, overflow pipes, channel restoration/scour remediation measures)

Please submit this application along with project design plans to the appropriate ODFW District Fish Biologist for the crossing's location. The complete application can also be sent electronically to the ODFW Fish Passage Coordinator at greg.d.apke@state.or.us and send one signed original paper copy of the application to the ODFW Fish Passage Coordinator at 4034 Fairview Industrial Dr. SE, Salem, OR 97302.

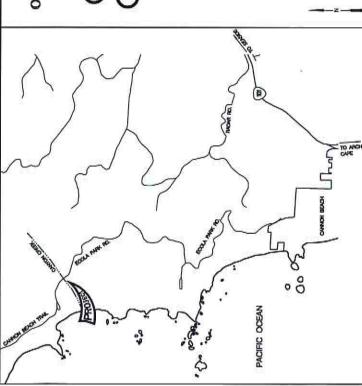
^{*} the nappe is the water flowing over weirs/baffles

ODFW FISH PASSAGE APPROVAL #PA-00-0000 (insert name of project)

(insert name of project)

• ODFW will use the following criteria to determine the level of review required.

For ODFW Use Only						
AND THE PROPERTY OF THE PROPER	YES	NO	N/A			
Is the bed within the crossing as wide as the active channel:						
2. Is the bed within the culvert at the same slope, and at grades continuous with, the surrounding stream:						
3a. If the crossing is open-bottomed, is there 3 feet of vertical clearance between the active channel width elevation and the inside top of the crossing:						
3b. If the crossing is closed-bottomed, will bed depth within the culvert be 20-50% of the crossing height:						
4. Is the bed material that will be used sufficient to assure water depth will be similar to that in the surrounding stream (i.e., will not go sub-surface prematurely):						
5. Are the bed material or retention measures that will be used sufficient to assure that the bed will be maintained through time:						
6. If the crossing is longer than 40 feet, will partially-buried, over-sized rock be placed within the crossing's bed:						
7. Will the bed within the crossing be placed during construction:						
8. If trash racks are present, are they above the active channel width elevation and do vertical bars have at least 9 inches of clear space between them:						
9. If there is an upstream pond, wetland, or backwater area, has its desired state after construction been determined, and have these considerations been addressed in the design:						
10. Are upstream grade control measures satisfactory:						
11. Are the construction timing and measures adequate based on the location:						
12. Are there plans to maintain the crossing:		□l				
 If all answers are "Yes" or "Not Applicable", this plan is eligible for approval by an ODFW biologist. If any answer is "No" or there are other concerns, consult with the Fish Passage Coordinator. 						
APPLICATION IDENTIFIER: (insert name of project & applicant) ODFW # PA-00-0000 Output Date Received: (insert date)						
APPROVED SIGNATURE: DATE	re:					
CONDITIONS:						



VICINITY MAP

OWNER.

OREGON PARKS AND RECREATION DEPARTMENT
12738 MP PAGIFIC COAST HWY,
SEAL ROCK, OR 97316-9632
CONTACT: JEFFREY WAGNER
541-563-9507
JEFFREYWAGNERPRORECONIGOV

ENGINEER:

OTAK, INC.

700 WASHINGTON ST, SUITE 300
VANCONFER, WA 98660
CONTACT, NICK BROWN
360-906-6791
NICK.BROWNSOTAK.COM

SURVEYOR:
CASTLE ROCK SURVEYING
P.O. BOX 1252
CAMNON BEACH, OR 97110
CONTACT: JOHN WICKMAN
JOHNPWICKMANNGGMAIL.COM

OREGON STATE PARKS AND RECREATION PLANS FOR PROPOSED PROJECT

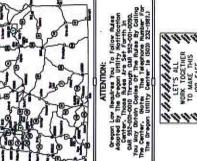
SITE

PROJECT

GRADING AND STRUCTURE

ACEMENT CANYON CREEK BRII **CULVERT REPL**

CLATSOP COUNTY, OR **ECOLA STATE PARK** JUNE 2019



SCALES INDICATED ARE FOR 22"134" PULL SIZE DRAWINGS

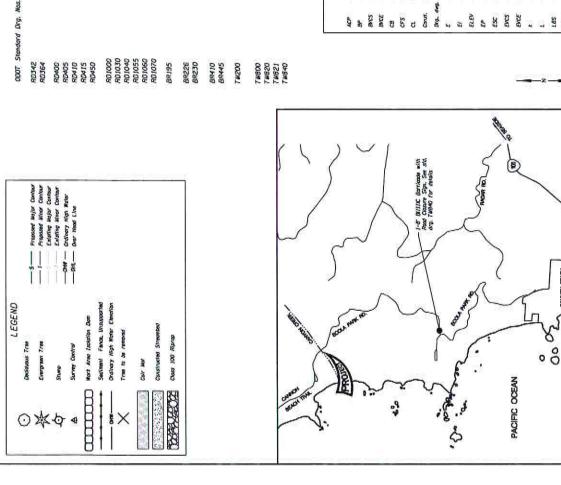
OREGON STATE PARKS

Otak

CANTON CREEK BRIDGE CLUMBIT REPLACEMENT ECOLA STATE PARK

TITLE SHEET

BID PLANS



Concrete Inlets Type G-1, G-2, G-2W, & G-2WA - Precast Prestressed Banes and Slabs Details - Guardrail and Metal Median Barrier Parts
- Guardrail and Metal Median Barrier Parts Guardrail and Metal Median Barrier Parts
 Guardrail Anchors (Steel) Tobles, Abrupt Edge And PCWS Details
 Temporary Barrisades
 Temporary Sign Supports
 Clasure Details - Sedinent Barrier Type 2, 3 and 4
- Sedinent Fence
- Stope and Channel Marting
- Tire Wash Facility Type 1 and 2 - 2-Tube Side Wount Rail - 2-Tube Side Wount Rail Transition - 18" Precest Prestressed Stop Guardrail Parts (Thrie Bean) - Concrete Truck Wash Out - Sign Installation Details - Construction Entrances - Bridge ID Worker

Wor for this project to reputated by environmental presults. The confractor shall compay with of previously reputation and according conditions of opposed. Confractor, such twee to stay of all parties on after at all these.

Contractor shall be responsible for searcing the project site during anustraction and protecting public sofety by preventing public access.

The in-wash wast paried for this project is from alot; list through Spatiester lists for-every and efforted or all countries activities the countries the extremy high water devotice of 152° and so shown on the plant. These construction confidence to the extrement produce, processed or from one plant moderist, and trainfactor of personnel resiston and accident carrier.

Al quantities on pien are appropriate, contrador to nerify defore construction

General Roles

All ensiting smith conclition and discriptions steam in plans have been concluded the another income end of the convey control to the recoverable for ensitiedized of bendon and depth of all section utilities within controlled con-trolled to the controlled of controlled controlled controlled con-representative of protection controlled.

Depar Department of Flats and Ribbits Polit of Version Inflection Pounds Par Square Feet Pre-Cast Pre-Strassed Motor Surface Elevorian Ordinary High Malar Periord Boundary Overhead Cine 9 Center ABBREVIATIONS 25.55 1 × ₹ 8 4 Erzelen ond Sediment Control End Vertical Curve Election Beph Verlior Cure Stellor End Version' Curve Station Begin Vention Corne Site Length of Vertical Curve Cubic Fast Per Second End Project Acre Asparet O gree Begin from Britz Begin from Green Bering Create Bering Create Bering Create Bering Create Bering Create Bering Create Bering Den Ang Denvire K Your 51.6V 59.0S 59.0S այ նյ

SCALES INDICATED ARE FOR 22"x34" FULL SIZE DRAWINGS OREGON STATE PARKS

Otak

CANTON CREEK BRIDGE CLIVERT REPLACEMENT ECOLA STATE PARK

SEET NO.

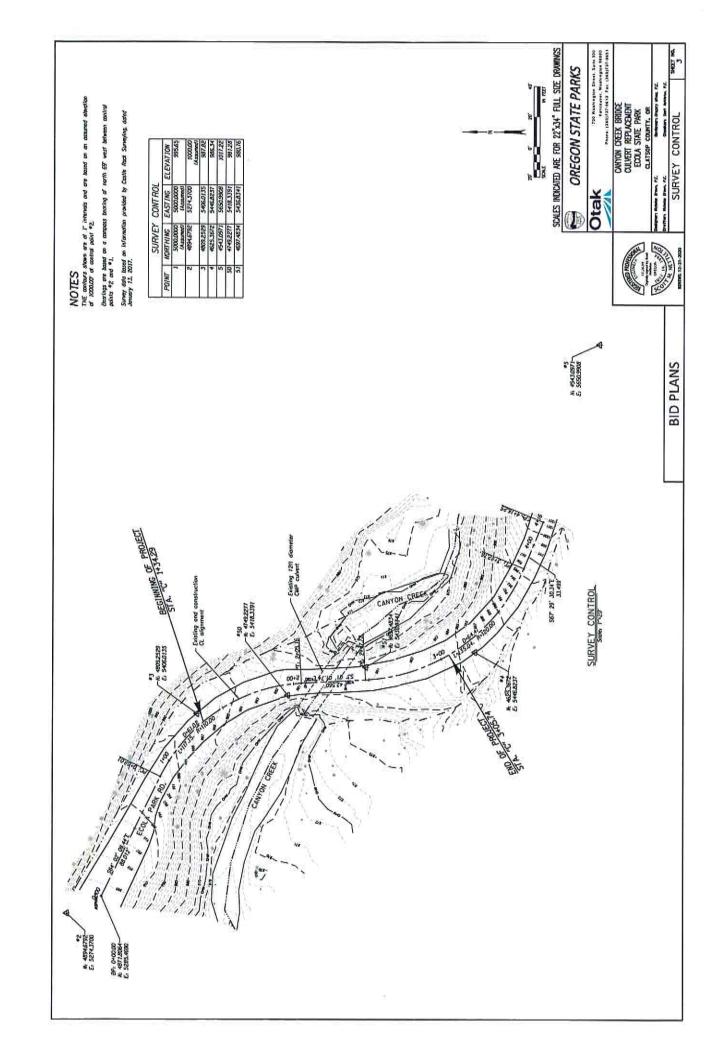
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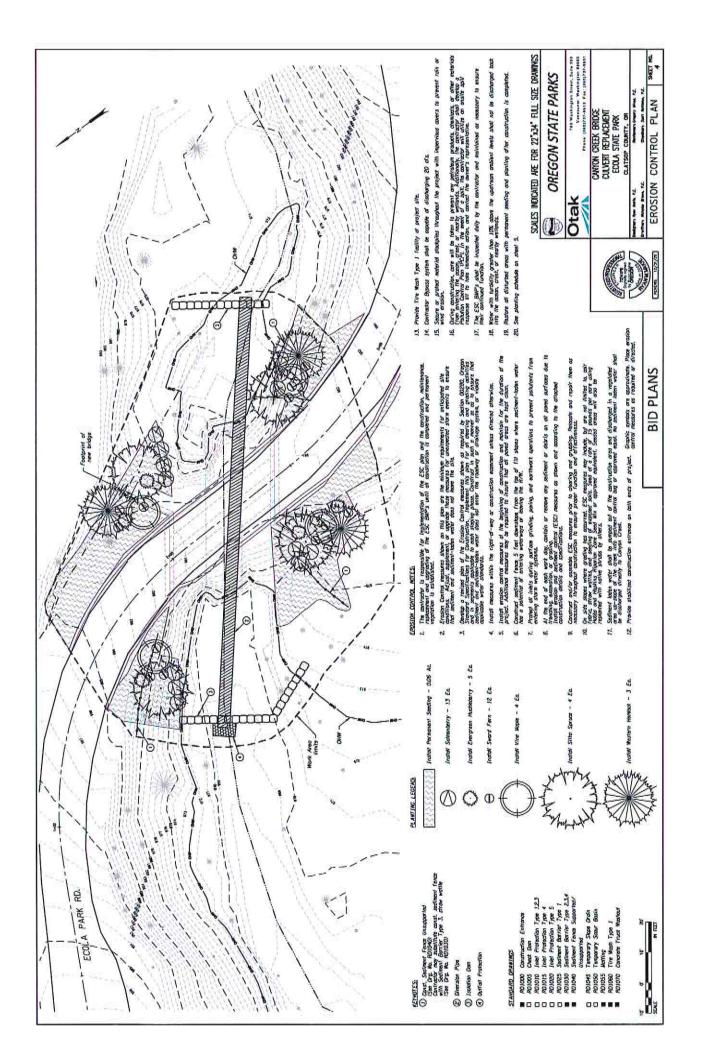
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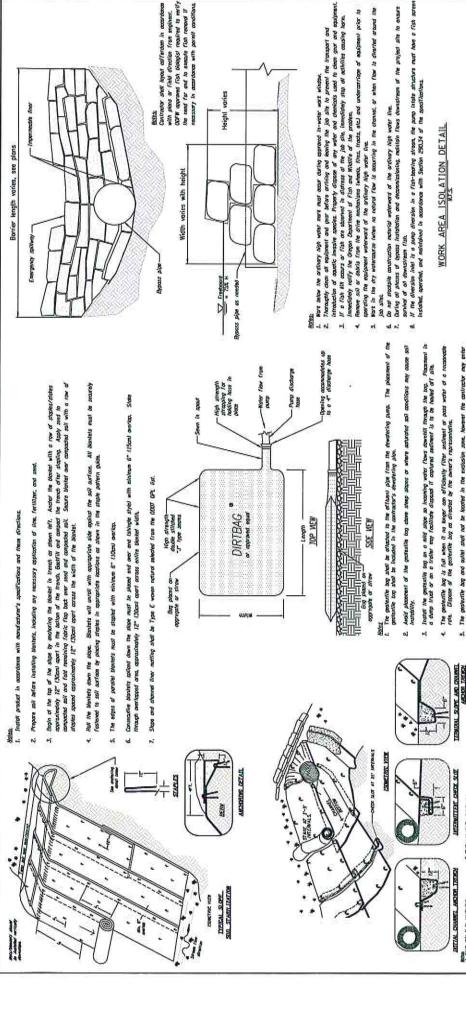
N.T.S.

TO ARCH

ROAD CLOSURE LOCATION MAP







Bitts
Cathrady and lyon offerdon in convidence
with place of the direction from septem;
OFF exposed fifth displace contains it melfy
the read for end to exactle full record if
securely in convidence with possit condition.

mentile fire

Height varies

SEDIMENT CONTROL BAG

The posturite lang and outlet study not be footbild in the exclusion zone, knowner the controctor may enter the controctor may be for a norder for that the developing districtors have through the excluded once. The first districtor touching norder in the contributed for review by the sewer's inspectations on port of the shows district took on the welfer isolation plan.

Use dividing by ACF. Environmental or expansed equal w

SLOPE AND CHANNEL LINER MATTING, TYPE E

E Date or state age of

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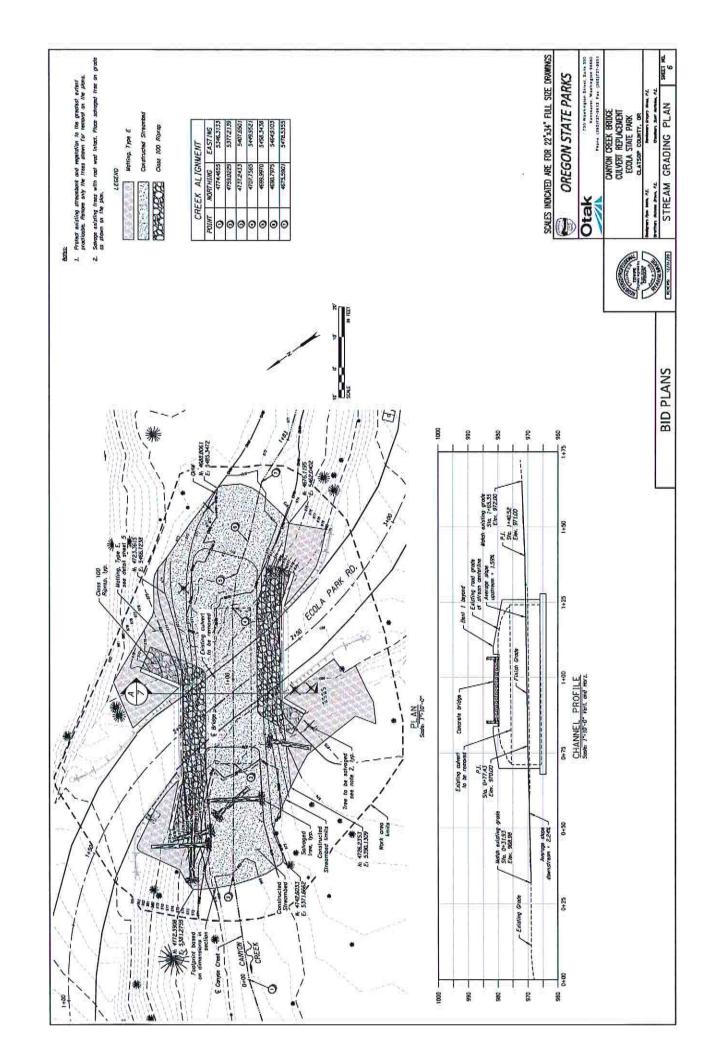
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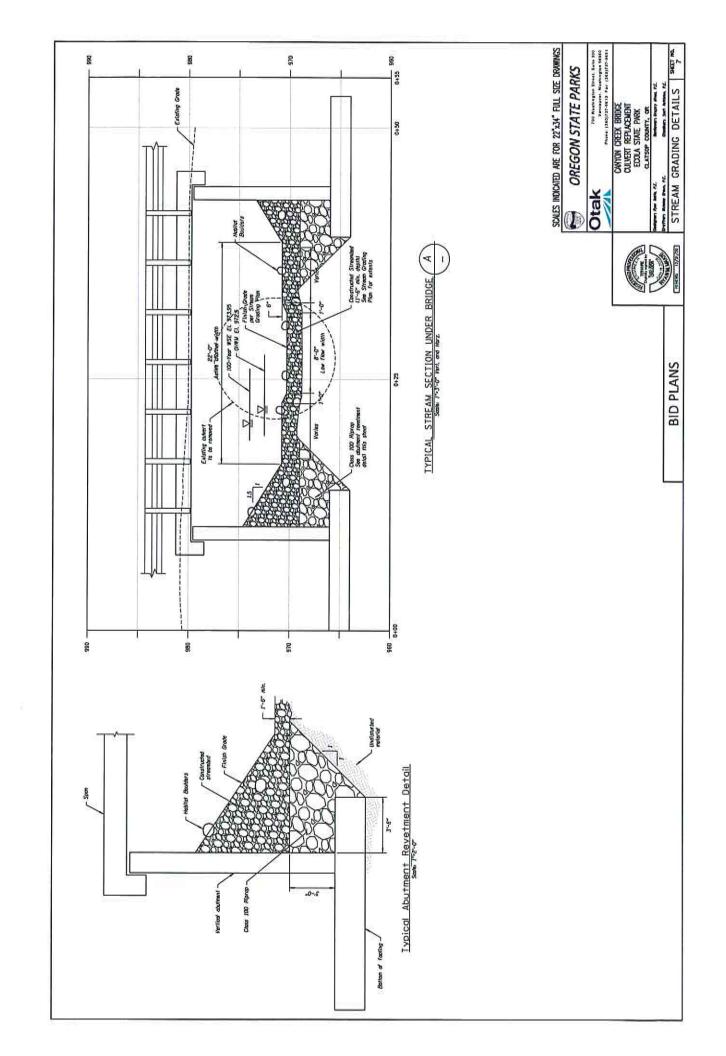
CLATSOP COUNTY, OR

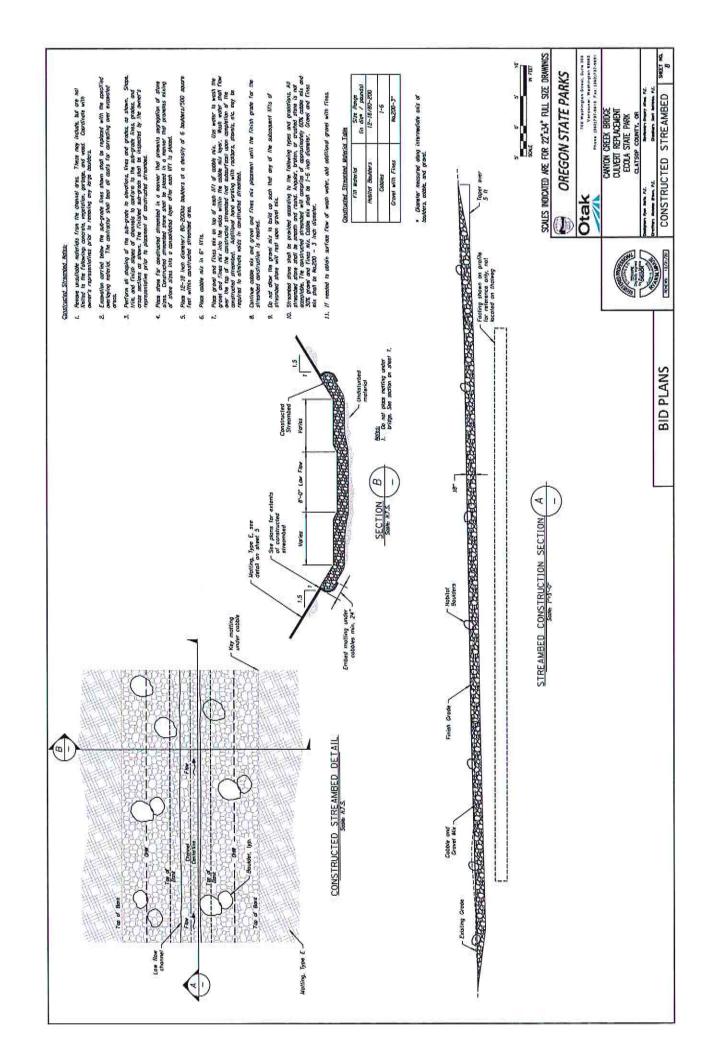
Agrees Appe data, F.E.

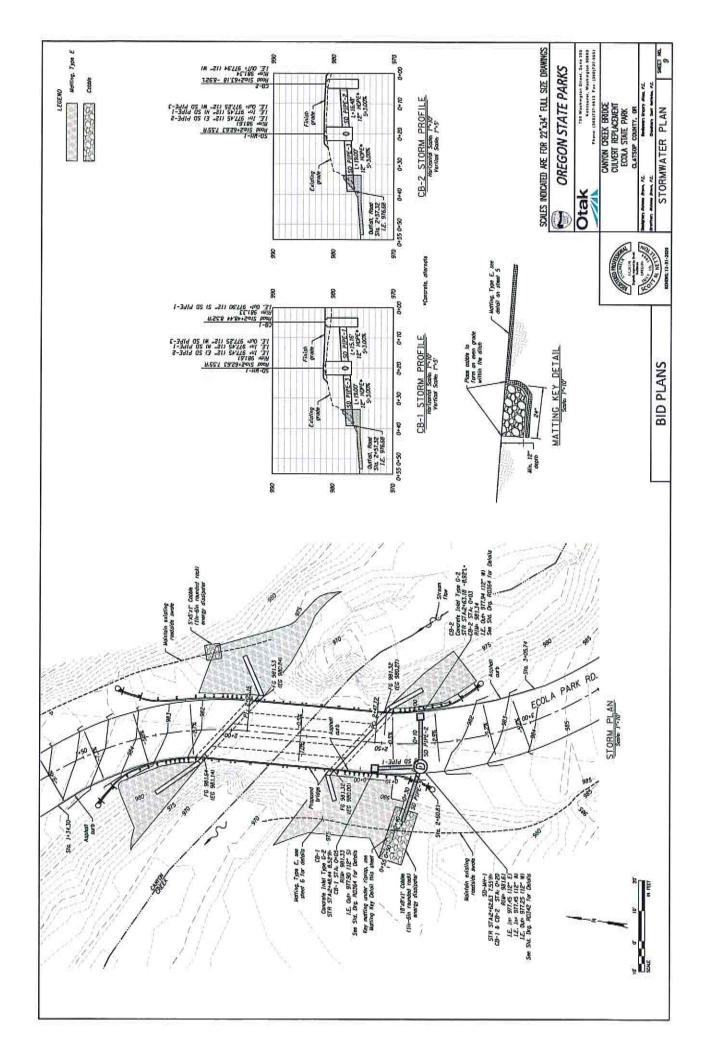
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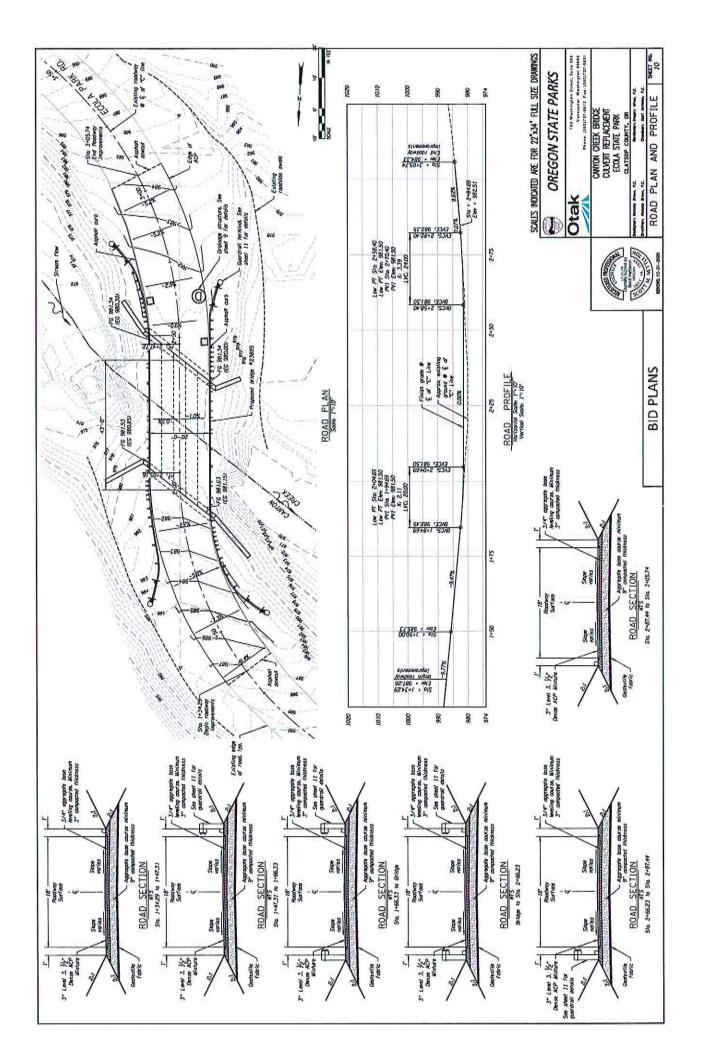
BID PLANS

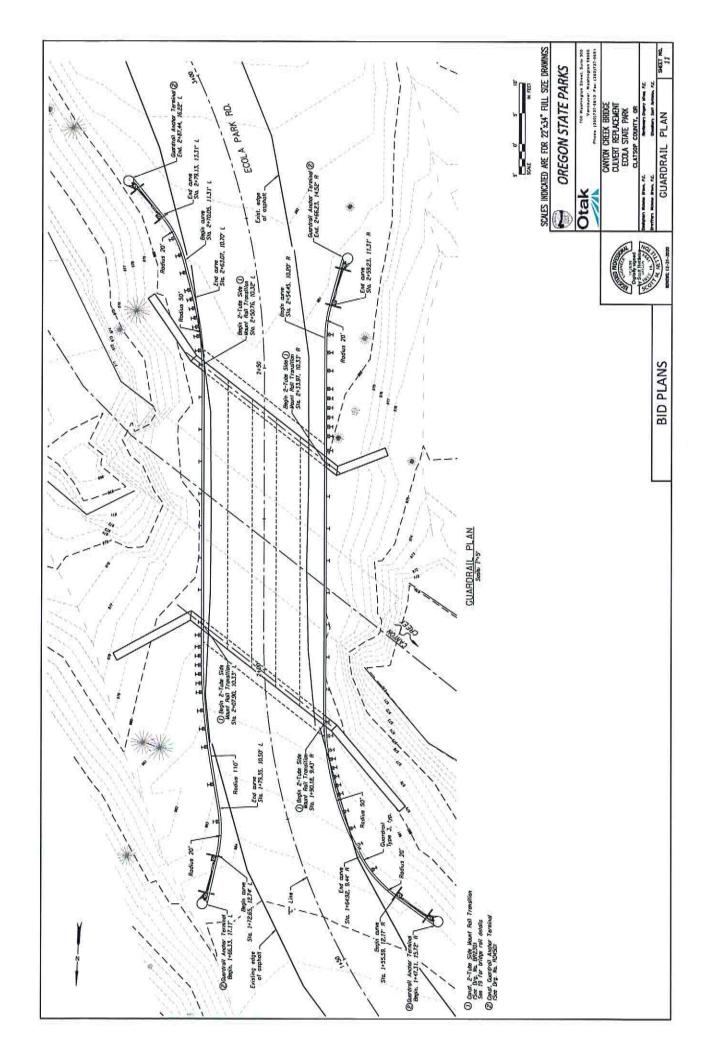


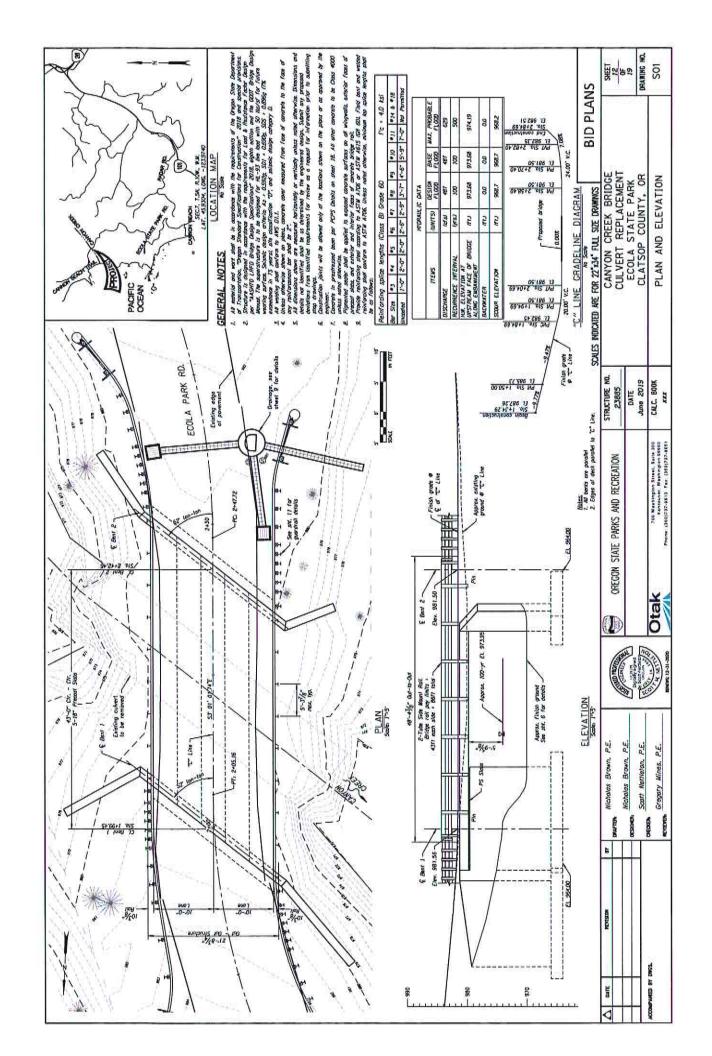


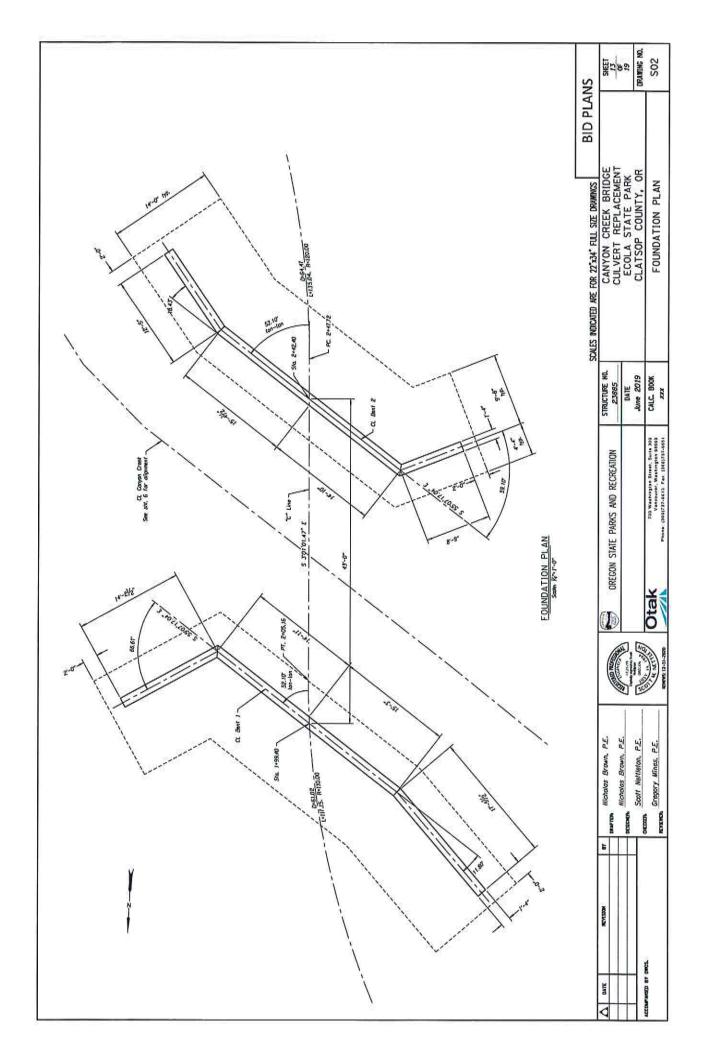


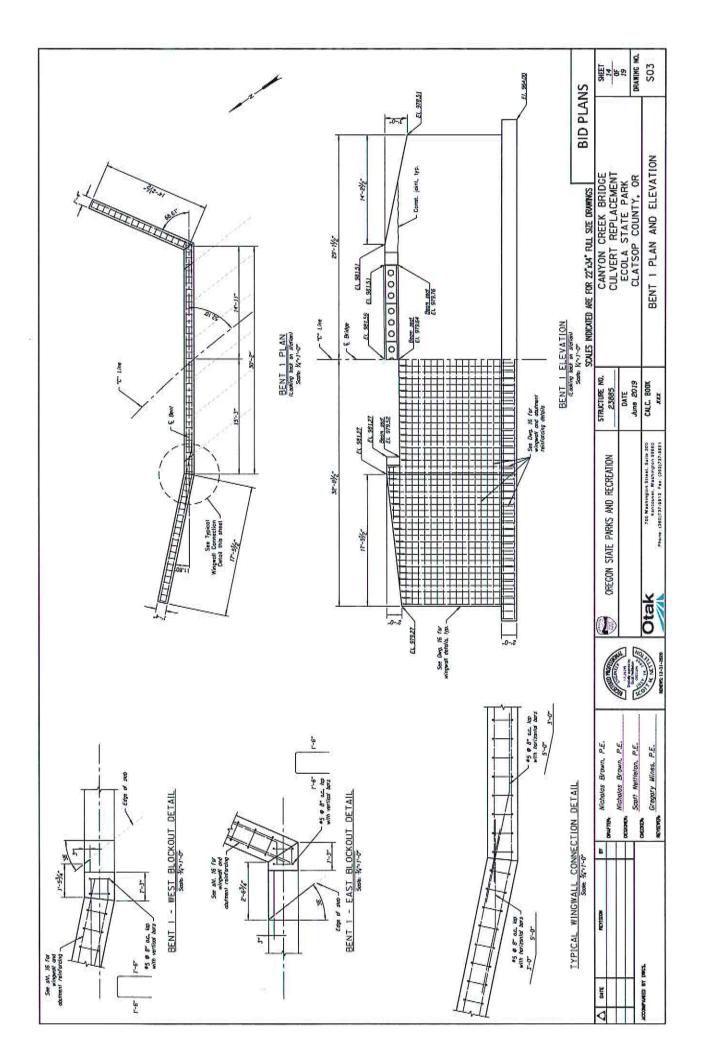


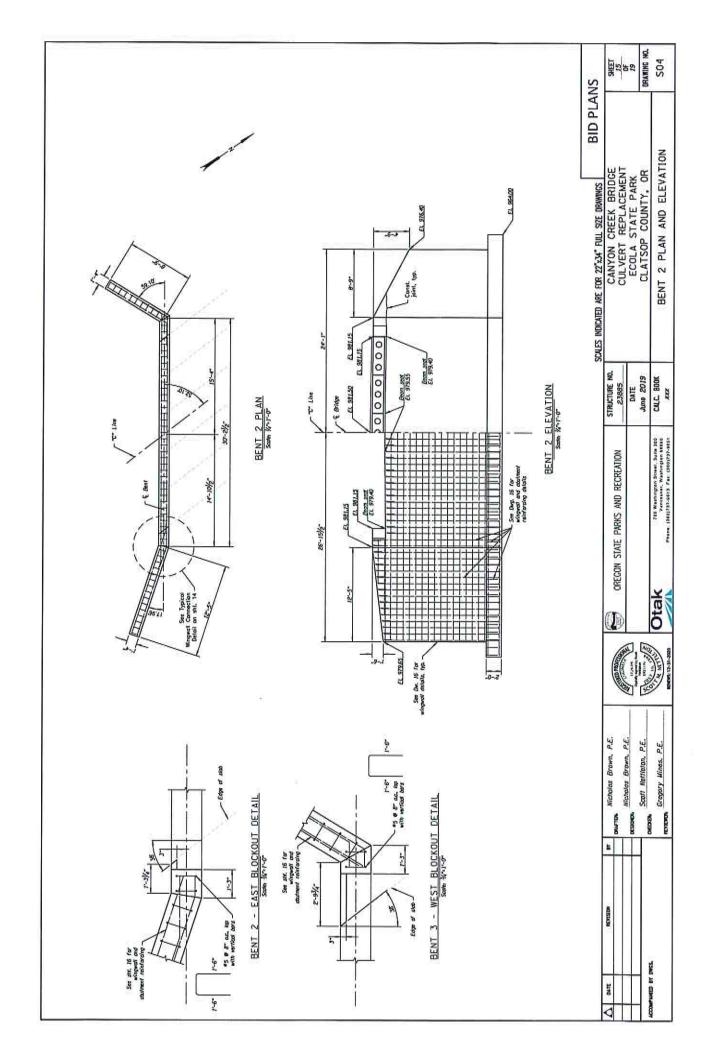


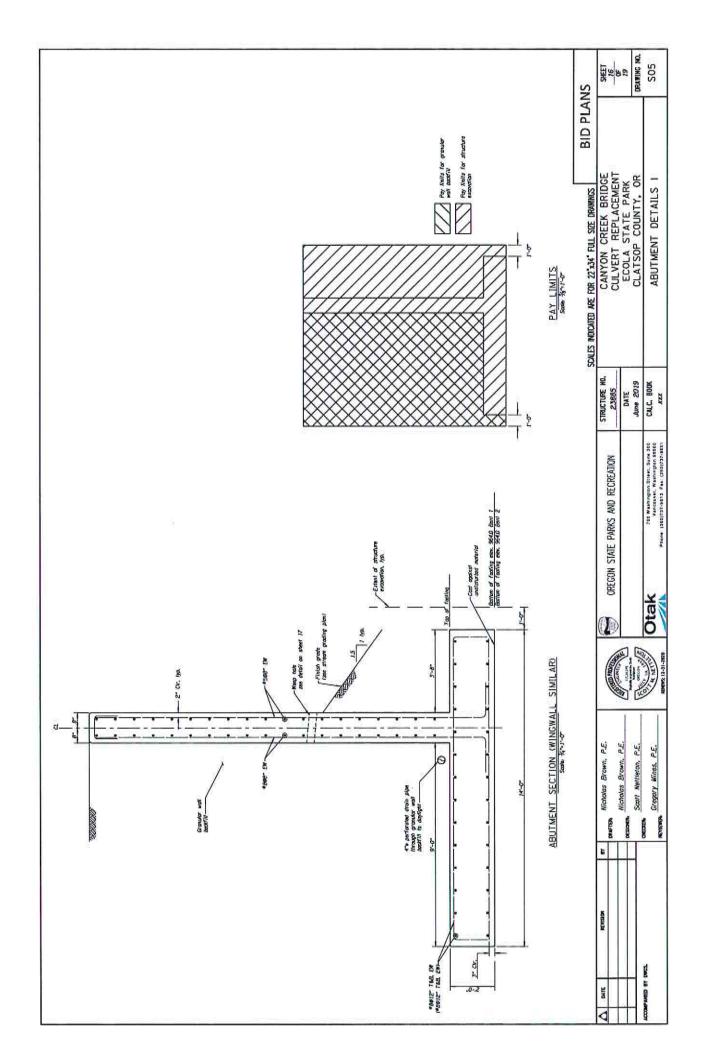


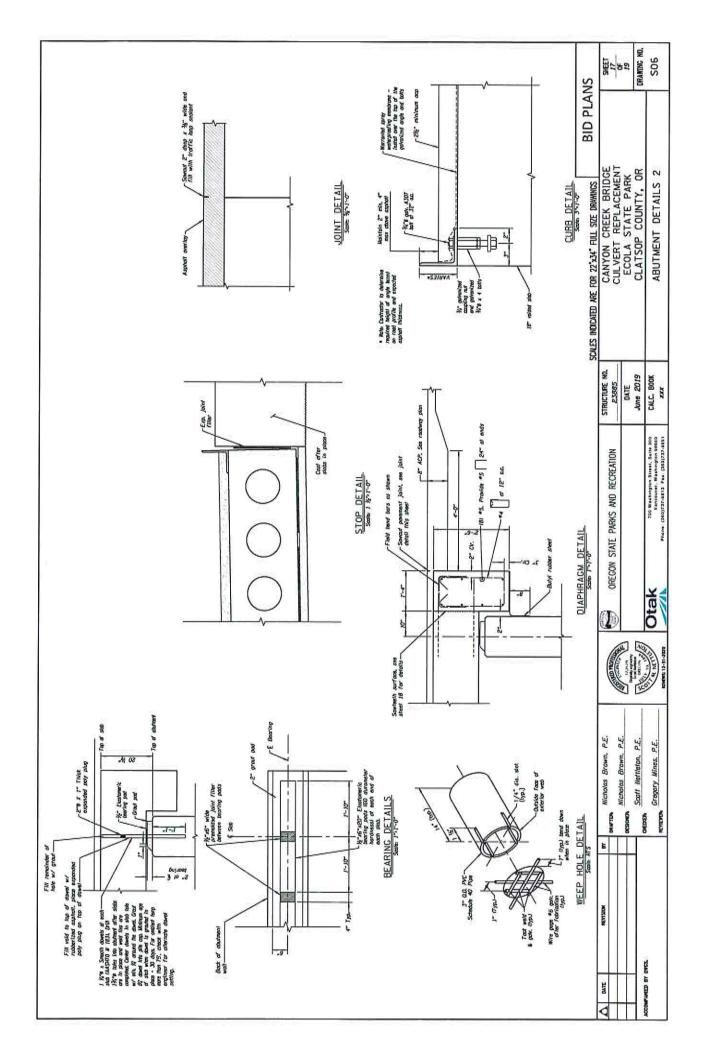


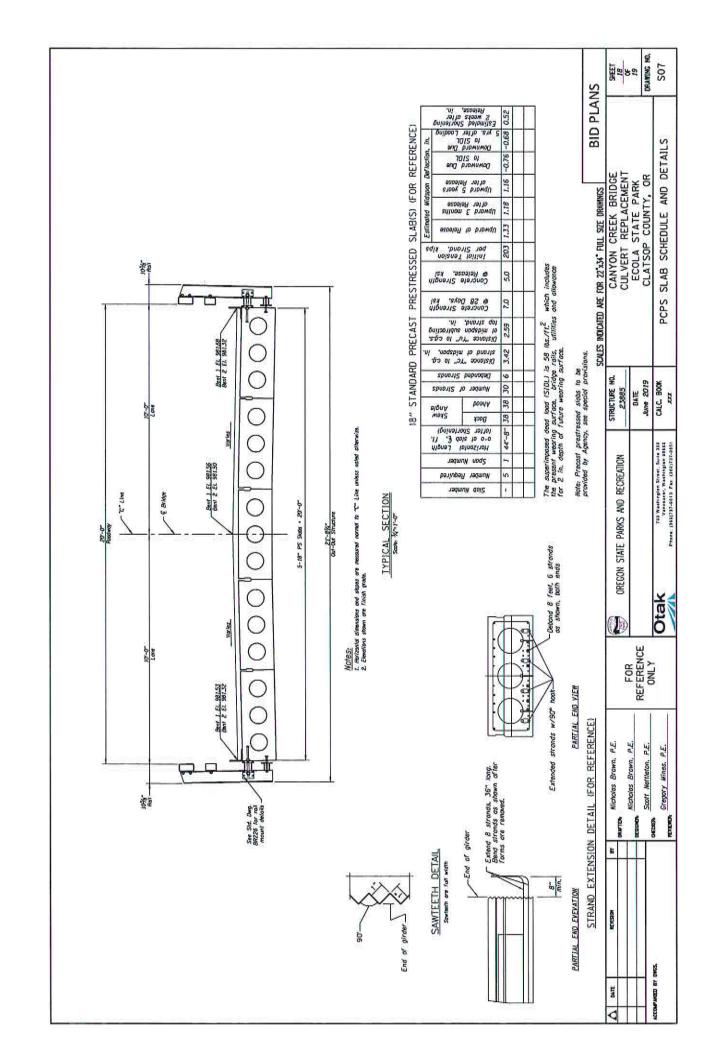


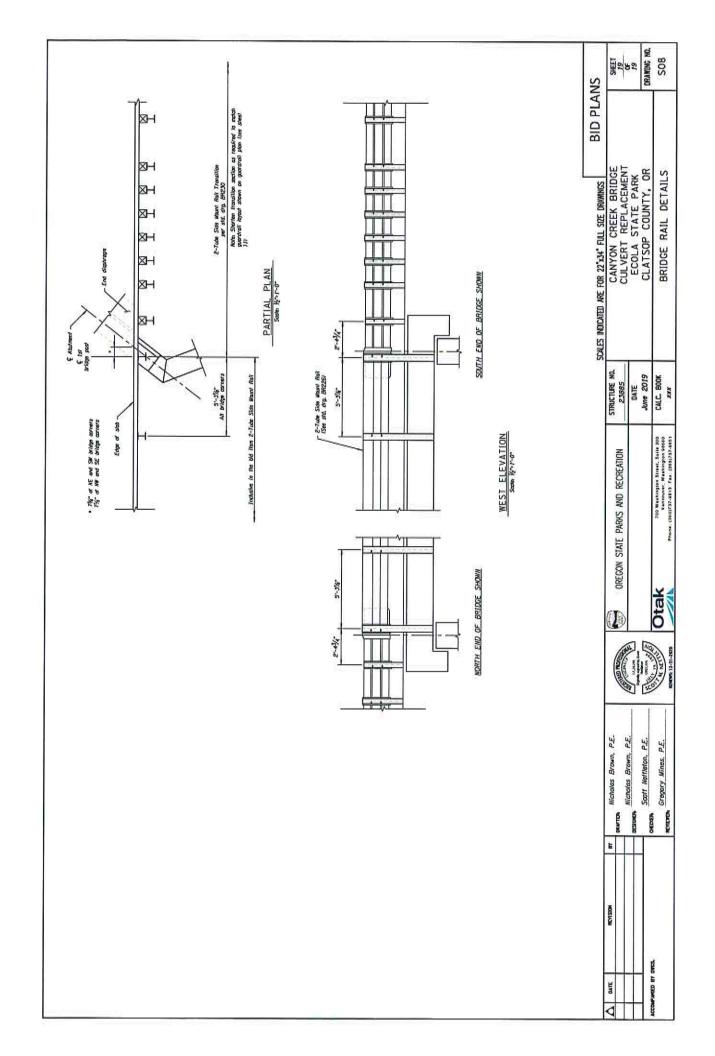












SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications modified as follows:

00210.40 Mobilization - Add the following bullet to the end of the bullet list:

 Obtaining and maintaining access to Doc Express®, and using Doc Express® to submit documents according to 00170.08.

00210.90 Payment - Add the following paragraph to the end of this subsection:

No separate or additional payment will be made for any costs associated with obtaining and maintaining access to Doc Express® or the use of Doc Express®.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications modified as follows:

Add the following subsection:

00220.42 Bridge Site Road Closure - Close the road to traffic at the bridge site during reconstruction of the bridge. Do not close the road until all materials and equipment are on hand or guaranteed to be delivered so that the work can be done in an efficient manner with a minimum period of road closure.

The road closure will not be allowed until the area is signed according to the TCP and the requirements of Section 00225.

SECTION 00225 - WORK ZONE TRAFFIC CONTROL

Comply with Section 00225 of the Standard Specifications.

SECTION 00245 - TEMPORARY WATER MANAGEMENT

Section 00245, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00245.00 Scope - This work consists of furnishing, installing, operating, maintaining, and removing temporary water management facilities in regulated work areas.

00245.02 Definitions:

Temporary Water Management Facility - A facility that conveys water around work areas, removes water from work areas, and treats and discharges water at locations outside work areas.

00245.03 Temporary Water Management Plan - The Agency Temporary Water Management Plan (TWMP) is a concept plan. 28 Calendar Days before beginning work in regulated work areas, submit stamped working drawings of a Contractor-developed TWMP, according to 00150.35, based on either the Agency's concept plan or an independent plan that meets water quality and environmental guideline requirements and does not affect neighboring properties or water rights.

Include at least the following information:

- The sequence and schedule for dewatering and re-watering.
- How the work area will be isolated from the active stream flow upstream, through, and downstream.
- How the stream flow will be routed and conveyed around or through the isolated work area.
- · How the isolated area will be de-watered.
- · How the pumped water will be treated before it is discharged downstream.
- · Discuss all construction stages.
- A list of on-site backup materials and equipment
- · Calculations of water withdraw pumps capacity.

Obtain the Engineer's written approval before beginning work in in-water work areas.

00245.10 Materials - Furnish materials meeting the following requirements:

Pipe	
Plastic Shee	ting00280.14(a)
Riprap	
Sandbags	00280.15(a)
Water Intak	Screening00290.34(c)

Furnish pumps that are:

- Self priming.
- Equipped with a variable speed governor.
- · Equipped with a power source.
- Able to pump water that contains soft and hard solid.

Furnish sediment control bags that meet the following requirements:

The sediment control bag shall be manufactured using a polypropylene 8 oz. non-woven geotextile sewn into a bag using a high-strength thread. The non-woven geotextile shall meet the following requirements:

Property	Test Method	Requirement
Weight	ASTM D-3776	8 oz./sq. yd.
Min. Grab Tensile Strength	ASTM D-4632	205 Lb.
Min. CBR Puncture Strength	ASTM D-4833	525 lb.
Min. Flow Rate	ASTM D-4491	90 gal./min/ft2
Maximum Permittivity	ASTM D-4491	1.4 sec ⁻¹
Min. Ultraviolet Stability	ASTM D-4355	70%
Min. AOS % Retained	ASTM D-4751	Sieve No. 80
Min. Overall Removal Efficiency	ASTM D-7880	97.55%

Construction

00245.40 Fish Removal - The Agency, ODFW biologists, or ODOT consultant personnel will remove fish and aquatic life from the isolation work areas. Allow them access into the isolation work areas before and after installation of the temporary water management facilities as follows:

- Before Installation of Facilities Before installing temporary water management facilities they will remove fish and aquatic life within the proposed isolated work area.
- After Installation of Facilities After installing temporary water management facilities begin reducing the water level through the isolated work area. They will remove all fish and aquatic life as the water level is reduced. The water level will need to be sufficiently lowered for the safe capture and removal of fish and aquatic life. Do not de-water the isolation area until all fish and aquatic life have been removed.

00245.41 Installation - During installation of the temporary water management facility, maintain a downstream water flow rate of at least 50 percent of the upstream water flow rate.

00245.42 Operation - Operate temporary water management as follows:

- Protect fish and fish habitat according to 00290.34.
- Maintain and control water flow downstream of the isolated work area for the duration of the diversion to prevent downstream de-watering.
- Clean and repair water intake screening to maintain adequate flow and protection of aquatic life.

00245.43 Maintenance - Monitor water turbidity according to 00290.30(a)(8).

00245.44 Removal - Remove the temporary water management facility and rewater and restore the stream flow when approved by the Engineer. Maintain downstream water flow during removal of the facility.

Measurement

00245.80 Measurement - No measurement of quantities will be made for temporary water management facilities.

The estimated quantities of materials required for the temporary water management facility are:

Temporary Water Management Facility at Station _0+28 to 1+66__:

Pipe	143 Feet
Pipe Plastic Sheeting	200 Square Yard
Riprap	5 Cubic Yard
1 ton Sandbags	80 Each
Pumps with Intake Screening	
Sediment Control Bags	2 Each

Turbidity monitoring will be measured according to 00290.80.

00245.90 Payment - The accepted quantities of temporary water management facilities will be paid for at the Contract lump sum amount for the item "Temporary Water Management Facility at Station ______ ".

The location of the facility will be inserted in the blank.

Payment will be payment in full for completing the TWMP, furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

Turbidity monitoring will be paid according to 00290.90.

No separate or additional payment will be made for designing, maintaining, operating, moving, and removing the facility.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications modified as follows:

00280.14(e) Slope and Channel Liner Matting – Replace the paragraph that begins with "Furnish matting from the QPL . . ." with the following:

Furnish matting from the QPL that meets the following performance criteria, except for Type F. For Type F, provide matting meeting the specific requirements listed below.

Replace the bullet that begins "Type F - Flexible . . ." with the following:

Type F Non-Woven - Long-term, machine-produced, double-net erosion control blanket of 100% coconut fiber with a functional longevity of up to 24 months. The blanket shall be of consistent thickness with the coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with 100% biodegradable woven natural organic fiber netting. The netting shall consist of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands to form an approximate 0.50 x 1.0 inch mesh. The blanket shall be sewn together on 1.50 inch centers with biodegradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches from the edge) as an overlap guide for adjacent mats. The matting shall meet Type 4 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17. The matting shall meet or exceed the following requirements:

Parameter	Procedure/Test	Criterion
Thickness	ASTM D6525	0.23 inches
Resiliency	ECTC Guidelines	85%
Water Absorbency	ASTM D1117	365%
Mass/Unit Area	ASTM 6475	9.79 oz/sy
Light Penetration	ASTM D6567	16.2%
Tensile Strength - MD	ASTM D6818	206.4 lbs/ft
Elongation - MD	ASTM D6818	15.3%
Tensile Strength - TD	ASTM D6818	145.2 lbs/ft
Elongation - TD	ASTM D4632	12.9%

00280.48 Emergency Materials - Add the following paragraphs after the paragraph that begins "Provide, stockpile, and protect...":

Provide and stockpile the following emergency materials on the Project site:

tem	Quantity	
Plastic Sheeting		20 Square Yard

SECTION 00290 - ENVIRONMENTAL PROTECTION

Comply with Section 00290 of the Standard Specifications modified as follows:

00290.00 Scope - Add the following paragraph to the end of the subsection:

The Contractor is responsibility for compliance with all Federal, State, and Local Regulations and permit conditions. All permits obtained for the project are included in the Bid Package, Including US Army Corps of Engineers, Oregon Department of State Lands, and Oregon Department of Fish and Wildlife Fish Passage Approval.

00290.30(a) Pollution Control Measures - Add the following subsections and bullets:

(7) Water Quality:

- Do not discharge contaminated or sediment-laden water, including drilling fluids and waste, or water contained within a work area isolation, directly into any waters of the State or U.S. until it has been satisfactorily treated (for example: bioswale, filter, settlement pond, pumping to vegetated upland location, bio-bags, dirt-bags). Treatment shall meet the turbidity requirements below.
- Do not cause turbidity in waters of the State or U.S. greater than 10% above background reading (up to 100 feet upstream of the Project), as measured 100 feet downstream of the Project.
- During construction, monitor in-stream turbidity and inspect all erosion controls
 daily during the rainy season and weekly during the dry season, or more often as
 necessary, to ensure the erosion controls are working adequately meeting
 treatment requirements.
- If construction discharge water is released using an outfall or diffuser port, do not
 exceed velocities more than 4 feet per second, and do not exceed an aperture size
 of 1 inch.
- If monitoring or inspection shows that the erosion and sediment controls are ineffective, mobilize work crews immediately to make repairs, install replacements, or install additional controls as necessary.
- · Underwater blasting is not allowed.
- Implement containment measures adequate to prevent pollutants or construction and demolition materials, such as waste spoils, fuel or petroleum products, concrete cured less than 24 hours, concrete cure water, silt, welding slag and

- grindings, concrete saw cutting by-products and sandblasting abrasives, from entering waters of the state or U.S.
- End-dumping of riprap within the waters of the state or U.S. is not allowed. Place riprap from above the bank line.
- Cease project operations under high flow conditions that may result in inundation
 of the project area, except for efforts to avoid or minimize resource damage.
- The Project Manager retains the authority to temporarily halt or modify the Project in case of excessive turbidity or damage to natural resources.
- (8) Visual Turbidity Monitoring Perform visual turbidity monitoring each day when working in regulated work areas according to the following:
 - Before beginning work, make in stream turbidity observation approximately 100 feet upstream and, based on the wetted stream width, at the compliance distance listed in Table 00290-1 downstream of the in-water work area.
 - · Make in stream turbidity observations upstream and downstream every four hours.
 - If a turbidity plume is observed within the compliance distance downstream of the in-water work area, implement in-water best management practices (BMP). If a turbidity plume is still observed at the second four hour observation, stop all in-water work and implement additional BMP. Resume in-water work activity the next morning.
 - If a turbidity plume is observed beyond the compliance distance downstream of the in-water work area at any observation interval, stop all in-water work and implement additional BMP. Resume in-water work activity the next morning.

Table 00290-1

Wetted Stream Width		Compliance Distance
≤ 30 feet	50 feet	See the distribution of the contract of the co
> 30 feet to 100 feet	100 feet	
> 100 feet to 200 feet	200 feet	
> 200 feet	300 feet	
Lakes, Ponds, andLesse	er of 100 feet or	
Reservoirs max, surface	e dimension	

Document all turbidity monitoring results including date, time, and location on the Agency provided form or another form approved by the Agency. Submit reports to the Engineer weekly when working in regulated work areas and keep copies of the reports at the project site.

If work activities violate permit conditions or cause water quality violations which may endanger the health of aquatic life or environment, stop all in-water work activities and notify the Engineer. Submit a written report of violations to the Engineer within 5 Calendar Days of violation.

00290.34 Protection of Fish and Fish Habitat - Add the following paragraph:

Meet with the Agency Biologist, Resource Representative, Project Manager, and inspector on site, before moving equipment on-site or beginning any work, to ensure that all parties understand the locations of sensitive biological sites and the measures that are required to be taken to protect them.

00290.34(a) Regulated Work Areas - Add the following to the end of this subsection:

The regulated work area is the area at or below the ordinary high water (OHW) elevation shown on the plans.

For this Project, the regulated work area is the area at or below 972.5 feet assumed elevation and between stream stations 0+25 and 1+70. Perform work within the regulated work area only during the in-water work period. The in-water work period is from July 1st to September 15th.

00290.34(b) Prohibited Operations - Replace this subsection, except for the subsection number and title, with the following:

Except where allowed by the Contract or by permit, do not:

- Blast underwater.
- Use water jetting.
- Release petroleum products or chemicals in the water.
- · Disturb spawning beds.
- · Obstruct stream channels.
- Cause silting or sedimentation of waters of the State or waters of the U.S.
- Use treated timbers within the regulated work area.
- Impede adult and juvenile fish passage, including intermittent streams.

Allow entry within the Regulated Work Area or between stations 00290.34(c) Aquatic Species Protection Measures Required by Environmental Permits:

(1) General Requirements:

- Do not install fish ladders (for example: pool and weirs, vertical slots, fishways) or fish trapping systems.
- · Do not apply surface fertilizer within 50 feet of any stream channel.

Use heavy equipment as follows:

- Choice of equipment must have the least adverse effects on the environment (for example: minimally sized, low ground pressure).
- Secure absorbent material around all stationary power equipment (for example: generators, cranes, drilling equipment) operated within 150 feet of wetlands,

waters of the State, waters of the U. S., drainage ditches, or water quality facilities to prevent leaks, unless suitable containment is provided to prevent spills from entering waters of the state or waters of the U.S.

- Do not cross directly through a stream for construction access, unless shown or approved. If shown or approved, cross perpendicular to the stream and do not block stream flow. When a crossing is no longer needed, completely remove the crossing and restore the soils and vegetation to the original condition.
- Store fuel and maintain all equipment in staging areas that are at least 150 feet away from any waters of the State, waters of the U.S., or storm inlet or on an impervious surface that is isolated from any waters of the State, waters of the U.S., or storm inlet.
- If temporary access roads are needed within 150 feet of any body of water, use existing routes unless new routes are shown or approved.
- Before beginning work on temporary access routes that are not shown, submit a
 proposal to the Engineer for approval.
- (2) Work Area Isolation Provide work isolation according to Section 00245. Provide safe passage around or through the isolated work area for adult and juvenile migratory fish unless passage did not previously exist.
- (3) Water Intake Screening Install, operate, and maintain fish screens on each water intake used for project construction, including pumps used to isolate an in-water work area. When drawing or pumping water from any stream, protect fish by equipping intakes with screens having a minimum 27% open area and meeting the following requirements:
 - Circular screen face openings must not exceed 3/32 inch in diameter. Perforated plate must be smooth to the touch with openings punched through in the direction of the approaching flow.
 - Slotted or rectangular screen face openings must not exceed 1.75 mm (approximately 1/16 inch) in the narrow direction.
 - Square screen face openings must not exceed 3/32 inch on a side.
 - The screen material must be corrosion resistant and sufficiently durable to maintain a smooth uniform surface with long term use.

Choose size and position of screens to meet the following criteria:

Туре	Approach Velocity ¹ (Ft./Sec.)	Sweeping Velocity ² (Ft./Sec.)	Wetted Area of Screen (Sq. Ft.)	Comments

Screen with proven self-cleaning system	≤ 0.4	_	Divide max. water flow rate (cfs) by 0.4 fps	_
Screen with no cleaning system other than manual	≤ 0.2	=1	Divide max. water flow rate (cfs) by 0.2 fps	Pump rate 1 cfs or less

- (4) Special Aquatic Habitats The following exploration or construction activities are not allowed in special aquatic habitats:
 - Use of pesticides and herbicides, unless allowed according to Section 01030.
 - Use of short pieces of plastic ribbon to determine flow patterns.
 - Temporary roads or drilling pads built on steep slopes, where grade, soil type, or other features suggest a likelihood of excessive erosion or slope failure.
 - Exploratory drilling in estuaries that cannot be conducted from a work barge, or an existing bridge, dock, or wharf.
 - Installation of a fish screen on any permanent water diversion or intake that is not already screened.
 - Drilling or sampling in an EPA-designated Superfund Site, a state-designated clean-up area, or the likely impact zone of a significant contaminant source, as identified by historical information, U. S. Army Corps of Engineers representative, or the Agency.
- (5) Site Restoration Restore damaged streambanks to a natural slope, pattern, and profile suitable for establishment of permanent woody vegetation unless precluded by pre-project conditions (for example: natural rock substrate):
 - Replant all damaged streambanks before the first April 15 following construction.
 - If use of large wood, native topsoil, or native channel material is required for the
 site restoration according to the roadside development plans, stockpile all large
 wood, native vegetation, weed-free topsoil, and native channel material displaced
 by construction. Cut trees or large wood and trees into pieces of no less than
 20 feet in length, or as shown on the roadside development plans or as directed.
 Stockpiled native wood and vegetation remain the property of the Agency.
 - Stabilize all disturbed soils, including obliteration of temporary access roads, following any break in work unless construction will resume in 4 Calendar Days.
- (6) Surface Water Diversions Surface water may be diverted to meet construction needs other than work area isolation, consistent with Oregon law, only if water from sources that are already developed, such as municipal supplies, small ponds, reservoirs, or tank trucks, is unavailable or inadequate, and meeting the following conditions:

- When alternative surface sources are available, divert from the stream with the greatest flow.
- Install, operate, and maintain a temporary fish screen.
- Do not exceed a pumping rate and volume of 10% of the available flow. For streams with less than 5 cubic feet per second, do not exceed drafting of 18,000 gallons per day. Do not use more than one pump for each site.
- (4) Temporary Power, Communication and Water Lines Before installing temporary power, communication, or water lines across streams or bodies of water, submit a proposed plan to the Engineer for approval. Do not begin installation before receiving approval from the Engineer. Proposed plans for installation of temporary power, communication, and water lines and stream crossings shall utilize the following design methods in the listed order of priority:
 - 1. Aerial lines, including lines hung from existing bridges.
 - 2. Directional drilling, boring and jacking that spans the channel migration zone and any associated wetland.
 - 3. Trenching, which is restricted to intermittent streams and may only be used when the stream is naturally dry. For all sections of trenches below the ordinary high water line, backfill with native material and cap with clean gravel suitable for fish use in the project area.

Align each crossing as perpendicular to the watercourse as possible. For drilled, bored, or jacked crossings, ensure that the line is below the total scour prism. Return any large wood displaced by trenching or plowing as nearly as possible to its original position, or otherwise arranged to restore habitat functions.

(5) Injured Fish Notification - If a dead or injured fish is found in the project area, immediately notify the Agency. If the injured fish is in a location where further injury or stress may take place, attempt to move the fish to a safer location, if one is available, near the capture site while keeping the fish in the water and reducing its stress as much as possible. Do not disturb the fish after it has been moved. If the fish is dead or dies while being captured or moved, save the fish and any tags. The Agency will notify appropriate regulatory agencies about the injured or dead fish and provide additional direction to the Contractor.

Add the following subsection:

00290.36(c) Prevent Nesting - Comply with Migratory Bird Treaty Act (16 U.S.C. 703-712). Submit a migratory bird protection plan for review and approval at least 10 Calendar Days before the pre-construction conference. Include the following:

- Provide a list of qualified personnel experienced in bird identification, including a summary of their qualifications. A qualified individual shall have at least 2 years of work experience identifying nesting birds in the Pacific Northwest.
- Describe measures to avoid disturbance to migratory bird nesting habitat (vegetation, structures) from March 1 to September 1 of each year. If complete avoidance is not

feasible, describe measure and method to prevent birds and bats from nesting within the Project Site. Describe measures to install, inspect, maintain, and repair exclusionary devices and/or harassment methods, and a schedule for installing, inspecting, and removing exclusionary measures.

- Do not begin work until the migratory bird protection plan and the implementation schedule are approved.
- Prevent nesting by native birds on structures to be removed or repaired and on vegetation to be removed as follows:
 - Install, inspect, repair and maintain exclusionary methods or begin harassment methods to prevent nesting of native birds in, on, or under the structures and the vegetation from March 1 to September 1 of each year.
 - If exclusionary measures have been installed or harassment methods have begun
 on-site prior to NTP, within 15 Calendar Days of the preconstruction conference,
 assume responsibility for ensuring that native birds do not nest in, on, or under the
 structures or the vegetation, according to Agency's migratory bird protection plan,
 including maintaining and inspecting exclusionary measures.
 - Using qualified personnel from the list, perform inspections on the structures (and the vegetation) according to the implementation schedule for nesting activity and effectiveness of exclusionary measures. Document inspections and maintain documentation on-site.
 - Remove existing bird nests only if no eggs or young are found.
 - Meet with the Agency Biologist, the Engineer, and inspector on-site if nests containing eggs or young are found.
 - Use equivalent materials when repairing or replacing damaged exclusionary measures.
 - If on-site work is completed prior to September 1, discontinue exclusionary measures or harassment methods.

In the event the Contractor fails to prevent nesting of native birds, the Engineer may suspend the work according to 00180.70.

Unless authorized in writing by the Engineer, return to the Engineer, within 5 Calendar Days of removal, all exclusionary measures applied by others prior to the NTP for the Project.

Add the following subsection:

00290.36(d) Wildlife Avoidance/Harassment (High Noise) - For purposes of this project, "high noise" is defined as sound pressure levels greater than 10 dBA above the ambient as measured by the L_{AFmax} and L_{AFeq} at sensitive habitat as shown:

- Non-blasting high-noise producing construction activities are not allowed between April 1 and August 5. Blasting activities within one mile of sensitive habitat shall be conducted only between September 15 and March 30.
- Non-blasting high noise producing construction activities conducted from August 6 to September 15 shall implement a daily limited operating period of daytime work being

conducted from two hours after sunrise to two hours before sunset. If night construction is needed, then activity shall be conducted one hour after sunset to one hour before sunrise.

00290.41 Protection of Wetlands – Replace the title of this subsection with "Protection of Waters of the U.S. or State"

Delete the paragraph that begins with "For the purposes of this Section...".

00290.41(a) Identifying Wetlands – Replace the title of this subsection with "Identifying Waters of the U.S. or State, Including Wetlands"

00290.41(b) Disturbing Wetlands – Replace the title of this subsection with "Disturbing Waters of the U.S. or State, Including Wetlands"

- Add the following to the end of this subsection:

Permits have been obtained for this project from the US Army Corps of Engineers (Corps) and the Department of State Lands (DSL). Keep a copy of Corps and DSL permits at the project site during construction. Changes to the project that may increase the amount of fill placed or material removed in waters of the U.S. or State, or the acreage of waters impacted are not authorized. The following waters of the U.S. or State are present and have been determined to be unavoidable:

Impact Waters of the US or State	Removal Volume (cu yds.)	Fill Volume (Cu yds)	Station	Duration of Impact (Temporary or Permanent)	Area of impact (Acres)
Canyon Creek	880	785	0+30 to 1+65	Permanent	0.25

SECTION 00305 - CONSTRUCTION SURVEY WORK

Section 00305, which is not a Standard Specification, is included for this Project by Special Provision.

Description

00305.00 Scope - Provide construction survey work according to the current edition on the date of Advertisement, of the ODOT "Construction Surveying Manual for Contractors". This manual is available on the web at:

http://www.oregon.gov/ODOT/ETA/Documents_Geometronics/Construction-Survey-Manual-Contractors.pdf

Measurement

00305.80 Measurement - No measurement of quantities will be made for construction survey work.

Payment

00305.90 Payment - The accepted quantities of construction survey work will be paid for at the Contract lump sum amount for the item "Construction Survey Work".

Payment will be payment in full for furnishing all material, equipment, labor, and incidentals necessary to complete the work as specified.

No separate or additional payment will be made for any temporary protection and direction of traffic measures including flaggers and signing necessary for the performance of the construction survey work.

No separate or additional payment will be made for preparing surveying documents including but not limited to office time, preparing and checking survey notes, and all other related preparation work.

Costs incurred caused by survey errors will be at no additional cost to the Agency. Repair any damage to the Work caused by Contractor's survey errors at no additional cost to the Agency. The Engineer may make an equitable adjustment, which may decrease the Contract Amount, if the required survey work is not performed.

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications.

SECTION 00320 - CLEARING AND GRUBBING

Add the following subsection:

00320.02 (d) Tree Salvage - Tree Salvage consists of:

- · Removal of trees (as indicated on the plans) with root wads intact
- Stockpiling of removed trees on site
- Placement of removed trees in final location (as shown on the plans)

Add the following subsection:

00320.44 Tree Salvage - Remove tree with root wad intact by felling tree with an excavator or similar equipment

00320.80 Measurement

Add the following to the end of the subsection:

Tree Salvage – Per each

00320.80 Payment

Add the following to the end of the subsection:

Bid Item	Unit of Measurement
Tree Salvage	EA

SECTION 00330 - EARTHWORK

Comply with Section 00330 of the Standard Specifications modified as follows:

00330.03 Basis of Performance - Add the following paragraph to the end of this subsection:

Perform all earthwork under this Section except for Constructed Streambed (cobbles, habitat boulders, and gravel with fines) on the excavation basis.

00330.42(c)(3) Embankment Slope Protection - Add the following paragraph:

Construct the outer 12 inches of embankments with suitable materials to establish slope stabilization through permanent seeding. If suitable material is not available, provide suitable materials from a Contractor-provided source which conforms to the requirements of 00330.11 or 00330.13 and provides favorable conditions for germination of seed and growth of grass.

SECTION 00340 - WATERING

Comply with Section 00340 of the Standard Specifications.

SECTION 00390 - RIPRAP PROTECTION

Comply with Section 00390 of the Standard Specifications.

SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL

Comply with Section 00405 of the Standard Specifications modified as follows:

00405.12 Bedding - Replace the bullet that begins "3/8" - 0 PCC Fine Aggregate..." with the following bullet:

3/8" - 0 PCC fine Aggregate conforming to 02690.30(g).

00405.46(c)(2) Class A, B, C, or D Backfill - Replace the paragraph that begins "Compact the top 3 feet..." with the following paragraph:

Compact each layer of trench backfill material within the Roadway and Shoulders, and within a 2V:1H Slope line projected from each Subgrade Shoulder, to not less than 95 percent of maximum density. Compact all other trench backfill material to not less than 90 percent of maximum density.

SECTION 00440 - COMMERCIAL GRADE CONCRETE

Comply with Section 00440 of the Standard Specifications modified as follows:

Add the following subsection:

00440.02 Abbreviations and Definitions:

ASTV – Actual Strength Test Value – See 02001.02 for definition.

00440.12 Properties of Commercial Grade Concrete - Replace the bullet that begins "Compressive strength..." with the following bullet:

Compressive Strength - ASTV minimum of 3,000 psi at 28 days

00440.14(d) Hardened CGC - Add the following to the end of this subsection:

The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE

Comply with Section 00445 of the Standard Specifications.

SECTION 00470 - MANHOLES, CATCH BASINS, AND INLETS

Comply with Section 00470 of the Standard Specifications.

SECTION 00480 - DRAINAGE CURBS

Comply with Section 00480 of the Standard Specifications.

SECTION 00501 - BRIDGE REMOVAL

Comply with Section 00501 of the Standard Specifications modified as follows:

00501.00 Scope - Add the following paragraph(s) to the end of this subsection:

Remove the existing Corrugated Pipe Culvert over Canyon Creek .

SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL

Comply with Section 00510 of the Standard Specifications.

SECTION 00530 - STEEL REINFORCEMENT FOR CONCRETE

Comply with Section 00530 of the Standard Specifications modified as follows:

00530.80(a) Lump Sum - Add the following to the end of this subsection:

The estimated quantity of reinforcement is:

Quantity

Structure	Uncoated	Coated
	(Pound)	(Pound)

Canyon Creek 45,450 0

SECTION 00540 - STRUCTURAL CONCRETE

Comply with Section 00540 of the Standard Specifications modified as follows:

00540.17(a) Aggregate - Replace this entire subsection, including 00540.17(a)(1) and 00540.17(a)(2), with the following subsection:

00540.17(a) Aggregate - Acceptance of aggregate will be according to 02690.12.

00540.17(c)(2) Actual Strength Test Value - Replace this subsection, except for the subsection number and title, with the following:

The ASTV at 28 Days is the average compressive strength of the three cylinders tested. Discard all specimens that show definite evidence, other than low strength, of improper sampling, molding, handling, curing, or testing. The average strength of the remaining cylinders shall then be considered the test result.

00540.49(a)(1) Hot Weather - Replace the paragraph that begins "Maintain the concrete temperature..." with the following paragraph:

Maintain the concrete temperature during hot weather as specified. When concrete temperatures approach the maximum allowable temperature according to 02001.20(d), take appropriate action to lower the concrete temperature.

00540.51(a) General Requirements - Replace the paragraph that begins "Cure cast-in-place concrete..." with the following paragraph:

Cure cast-in-place concrete surfaces with water, wet burlap, and a layer of 4 mil polyethylene film, except polypropylene fabric may be used in place of wet burlap on horizontal surfaces. Begin curing as soon after placement as possible without damaging the freshly placed concrete. Continue curing for 7 Calendar Days (14 Calendar Days for bridge decks) after placement.

Add the following paragraph to the end of this subsection:

If the ambient temperature falls below 50 °F, or is forecasted to be below 50 °F, provide a 24-hour continuous recording thermometer and place it directly on the surface of the concrete. Once placed, the thermometer shall remain in place for the duration of the cure period. Use methods approved by the Engineer to maintain a concrete temperature of at least 50 °F during the cure period.

00540.80(a)(1) Lump Sum - Add the following to the end of this subsection:

The estimated quantity of concrete is:

Canyon Creek Bridge

Type and ClassQuantity (Cu. Yd.)

Foundation Concrete, Class 4000

200

SECTION 00550 - PRECAST PRESTRESSED CONCRETE MEMBERS

00550.00 Scope - Replace this subsection, except for the subsection number and title, with the following:

This work consists of receipt, final delivery and placement of pre-fabricated prestressed concrete slabs as supplied by the Agency for construction in the final constructed position as indicated on the Project Plans and within these Specifications. Receipt by the Contractor will be at the location of road closure, specifically the Ecola State Park road wye at the Ecola Point Day Use area, approximately 1.25 road miles south of the project location.

Comply with Sections 00550.49 through 00550.90 of the Standard Specifications modified as follows:

00550.49 Lifting, Storage, Transporting, Erecting, and Bracing - Add the following paragraph to the beginning of this subsection:

Contractor will supply all applicable activities within this subsection from acceptance of the prestressed members, freight on board, at the Ecola Park Road wye from the Ecola Point Day-Use area to the final bridge site location including installation into the final position.

00550.80 Measurement - Replace this subsection with the following:

No measurement will be made for the work under this section.

00550.90 Payment - Replace this subsection with the following:

The accepted quantity of work performed under this Section will be paid for at the Contract lump sum price, for the following item:

Pay Item	Unit of Measurement
Install Precast Prestressed Slabs	Lump Sum

SECTION 00582 - BRIDGE BEARINGS

Comply with Section 00582 of the Standard Specifications.

SECTION 00587 - BRIDGE RAILS

Comply with Section 00587 of the Standard Specifications modified as follows:

00587.10 Materials - Add the following to the end of the list:

00587.42(e) Latex Paint Cure for PCC - Replace this subsection with the following subsection:

00587.42(e) Latex Emulsion Paint Cure for PCC - As an option to curing cast-in-place or slipformed bridge rails, the following procedure may be used:

- Allow free moisture to flash off, but only until the concrete surface does not glisten, and never for more than 1 hour.
- · Apply latex emulsion paint from the QPL as follows:
 - · Apply the first coat at an application rate of 150 square feet per gallon.
 - Allow the first coat to air-dry for 1 hour.
 - Apply the second coat at an application rate of 150 square feet per gallon, with the application direction transverse to the direction of the first coat.

00587.80 Measurement - Add the following to the end of this subsection:

The estimated quantity of bridge rail is:

Quantity

Structure Rail Type

(Foot)

Canyon Creek

BR226

96

SECTION 00591 - SPRAY WATERPROOFING MEMBRANE

Comply with Section 00591 of the Standard Specifications.

SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

SECTION 00744 - ASPHALT CONCRETE PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

00744.11(a) Asphalt Cement - Add the following to the end of this subsection:

Provide PG 64-22 grade asphalt cement for this Project.

00744.42 Tack Coat - Add the following paragraph to the end of this subsection:

Treat all waterproofing membranes on and against which ACP is to be placed with an asphalt tack coat meeting the requirements of 00744.11(a) or as recommended by the membrane manufacturer.

SECTION 00810 - METAL GUARDRAIL

Comply with Section 00810 of the Standard Specifications modified as follows:

00810.10 Materials - In the list of materials, replace the line that begins "Wood Guardrail Blocks..." with the following line:

00810.13 Guardrail Anchors - Add the following paragraph to the end of this subsection:

Furnish one guardrail anchor cable assembly per project for testing according to AASHTO M 30.

SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications modified as follows:

01030.13(f) Types of Seed Mixes - Add the following to the end of this subsection:

Provide the following seed mix formulas:

· Permanent Seeding:

Botanical Name (Common Name)	PLS ÷ (lb/acre)	(% Purity (minimum)	X	% Germination) (minimum)	Ē	Amount (lb/acre)
Agrostis exerata (Spike Bentgrass) Bromus carinatus	0.187	<u> </u>		<u> </u>		88
(California Brome) Elymus glaucus	7.251	l====0.				_
(Blue Wildrye) Festuca rubra var. rubra	32.031					
(Native Red Fescue)	3.876	<u> </u>				

01030.15 Mulch - Add the following paragraphs and bullets to the end of this subsection:

Furnish straw mulch for all temporary roadside erosion control seeding, except hydromulch may be used under the following conditions:

- Spring planting west of the Cascades between March 1 and May 15.
- · Slopes are steeper than 1V to 1.5H and longer than 16 feet.
- Residential or commercial sites with low erosion potential such as sidewalk, median, or parking lot planter strips.

Projects that have variable slopes may include straw mulch and hydromulch when approved.

01030.42 Weed Control - Add the following paragraph and bullets after the paragraph that begins "If a pesticide has been approved for..." and before subsection (a):

The Specified Weeds and plant species to be removed include the following:

- Blackberry Species
- Reed Canarygrass
- Scotch Broom

The minimum living plant coverage for native plant seeding is 80 percent of ground surface.

SECTION 01040 - PLANTING

Comply with Section 01040 of the Standard Specifications modified as follows:

01040.22 Water - Add the following paragraph(s) to the end of this subsection:

Provide moisture retention chemicals for this Project.

01040.49 General Planting - Add the following to the end of this subsection:

Perform initial watering and continue with the watering frequencies according to 01040.71.

01040.80(f) Mulch - Replace this subsection, except for the subsection number and title, with the following:

Mulch will be measured on the volume basis at the time of placement, or on the weight basis. Trucking invoices may be used to determine volumes if the quantities are verifiable to the satisfaction of the Engineer.

01040.90(d) Plant Materials - Replace the paragraph that begins "Partial payments for plant Materials will..." and the partial payment table with the following paragraph and table:

Partial payments for plant Materials will be made as follows:

At the time of the original planting	60%
After the first plant establishment inspection	
After the second plant establishment inspection	10%
After the third plant establishment inspection	10%
At completion of the establishment period	10%

SECTION 01091 - CONSTRUCTED STREAMBED

Section 01091, which is not a Standard Specification, is included in this Project by Special Provision.

Description

01091.00 Scope - This work consists of installing constructed streambed as shown on the plans.

Materials

01091.10 Material - Furnish materials meeting the following requirements:

(a) Habitat Boulders:

Habitat Boulders shall be 12" to 18" size (nominal), hard, durable, subrounded to subangular shaped rock. Nominal Size can be determined by taking the average dimension of the three axes of the rock: Length, Width, and Thickness, by use of the following calculation:

$$\frac{Length + Width + Thickness}{3} = Nominal Size$$

Length is the longest axis, width, is the second longest axis, the thickness is the shortest axis. The thickness of a single rock shall be not less than one-third its length. Rounded rock, Angular rock, non-durable rock, shale, or rock with shale seams will not be accepted. The Engineer shall inspect the source before delivery of Habitat Boulders.

(b) Cobbles- Cobbles shall be hard, durable, subrounded to rounded shaped rock meeting the following requirements for grading. The material must be free from overburden, spoil, shale and organic material. Non-durable rock, shale or rock with shale seams is not acceptable.

The grading of the Cobbles shall range from 6 inches down to 1 inch. The gradation shall be well mixed. Verification of the gradation shall made by the Engineer by visual inspection of the load before it is dumped into place.

(c) Gravel with Fines – Gravel with Fines shall be a well-graded mixture of silt, durable sand, and river run gravel containing no particle with any dimension greater than 3 inches. The material must be free from overburden, spoil, shale and organic material. Non-durable rock, shale or with shale seams is not acceptable. Submit a minimum 5-gallon sample to be visually approved by Engineer.

Construction

01091.40 General - Obtain all permits and perform work in and around water according to Section 00290 and the following:

Do not over excavate when performing constructed streambed work without obtaining prior approval from the Agency. Over-excavation along the streambank requires restoration of the bank to finished grade by construction of wrapped soil lifts at no additional cost to the Agency.

- (a) Habitat Boulders Place boulders in the streambed within the streambed gravel mix to depth as shown. Rocks shall be placed with the minimum spacing as shown on plan.
- (b) Cobbles and Gravel with Fines Place cobbles as shown or directed in 6-inch lifts. Place 3-inch lift of gravel with fines material over each lift of Streambed Gravel Mix and power wash smaller material into voids until water ponds on the surface. If water does not pond on surface add more gravel with fines material and power wash as required. Completion of power wash shall be approved by Engineer.

Measurement

01091.80 Measurement - Work performed under this Section will be measured according to the following:

(a) Constructed Streambed - The quantities of constructed streambed shall be measured per ton.

Payment

01091.90 Payment - The accepted quantities of constructed streambed will be paid for at the Contract unit price, per unit of measurement, for the following items:

Pay Item

Unit of Measurement

(a) Constructed Streambed......Ton

Item (d) includes over-excavation, furnishing and placing the streambed gravel, and washing in the clean silt/durable sand. No separate or additional payment will be made for clean silt/durable sand.

No separate or additional payment will be made for clean silt/durable sand.

Payment will be payment in full for furnishing and placing all Materials, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

SECTION 02820 - METAL GUARDRAIL

Comply with Section 02820 of the Standard Specifications modified as follows:

02820.50 Acceptance of Materials - Replace this subsection, except for the subsection number and title, with the following:

Acceptance of metal guardrail Materials will be according to Section 00165.35.