



# R & E Grant Application 15 Biennium

Project #:  
15-025

## *Willamette Falls Fishway Exit Trashrack Repairs*

### *Project Information*

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**R&E Project Request:** \$186,000.00  
**Total Project:** \$322,000.00  
**Start Date:** 8/10/2015  
**End Date:** 6/30/2017  
**Organization:** Oregon Department of Fish and Wildlife

### *Applicant Information*

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**Name:** Ryan McCormick  
**Email:** ryan.l.mccormick@state.or.us

### *Past Recommended or Completed Projects*

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Number	Name	Status
09-251	Tide Gate Fish Passage Study	Completed

## **Location Information**

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### **Where is it?**

The project will occur on public land owned or managed by the applicant

### **Site Description**

*Street Address, nearest intersection, or other descriptive location.*

4800 Mill Street, West Linn, Or 97068

*Directions to the site from the nearest highway junction.*

From I205, take exit 8, turn right on Mill St

*Following project completion, public anglers will be allowed the following level of access to the project site:*

No access

*Please describe what leases, easements, agreements are in place to ensure angler access to the project site, and what is the length of each agreement.*

Access to this facility is granted from the West Linn Paper Mill

*Dominant Land Use Type:*

Industrial

### **Project Location**

*General Project Location.*

**County:** Clackamas  
**Town/City:** West Linn  
**ODFW Dist:** NWWD - Cascade Unit  
**Stream/Lake/Estuary Name:** Willamette River  
**Sub-basin:** Willamette River  
**Tributary of:** Columbia

*Specific Project Location.*

Latitude	Longitude
045.3507	112.6261

## **Project Summary**

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### **Project Summary**

*Please provide a couple sentence summary of the proposal.*

The support beams that secure the fishway exit trashracks have corroded to a point they have become structurally compromised and can no longer support the trashracks during heavy debris period of the year. These beams were the original beams installed in 1965 and have fulfilled their life expectancy.

### **Overall Project Goals**

*Describe the primary goals or outcomes of the entire project, including elements not requesting*

*funding from R&E.*

The primary goal is to replace the beams with new stainless steel beams.

Primary objectives of R&E funding

*Please describe the measurable objectives for the R&E portion of the funding request.*

The R&E funds will be used to purchase stainless steel to fabricate the beams and pay for the installation of the new beams.

Current Situation/Justification

*Please describe the current situation and explain why this funding is needed.*

The existing support beams have degraded due to corrosion and no longer supporting the trashracks of the fishway exit and auxiliary water intake. This funding is required to repair the degraded beams to ensure they do not fail and cause the trashracks to collapse into the fishway and auxiliary water intake system.

Recreation and Commercial Benefit

*This project will provide benefits to:*

Recreational fisheries

*Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.*

This project will contribute by preventing negative impacts to the recreational fishing opportunity on the Willamette River above the falls. If the trashracks fail, it would cause reduced flow to the fishway and possibly block fish from being able to exit the last pool. These events would increase delay of fish holding at the falls and potentially cause the fish to not pass at all.

*Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?*

No

*This project has been identified as a priority for:*

Basin/regional

*Identify any plan or other document that identifies this priority.*

1998 Willamette Basin Fish Management Plan - Spring Chinook, Page 21 Objective 1: Increase annual run size to 100,000 Willamette Spring Chinook.

1993 Willamette Basin Fish Management Plan, Page 16 - Objective 1: Improve fish passage at Willamette Falls,...

*This project is intended to benefit the following species:*

Fall Chinook Salmon  
Spring Chinook Salmon  
Coho Salmon  
Winter Steelhead  
Summer Steelhead  
Cutthroat Trout  
Rainbow Trout  
White Sturgeon

*This project will benefit anglers or fishery by providing:*

Angling Opportunity

## Angling Opportunity

*This project will:*

Prevent impacts to existing fishing opportunity

## **Project Description**

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### Schedule

Activity	Date	RE Funding
Develop a conceptual design for the repair	3/2015	No
Obtain cost estimates for the conceptual plan	4/2015	No
Finalize design for repair	4/2015	No
Obtain funding for repair	8/2015	No
Hire contractor for repair	8/2015	No
Finish repair	9/2015	No

### Permits

Permit	Secured?	Date Expected
ODFW Fish Passage Approval	No	4/2015

### Project Design and Description

*Please describe in detail the methods or approach that will be used to achieve the project objectives.*

The scope of the repair is to replace fifteen existing steel beams with new stainless steel beams.

The general method of replacement is:

1. Use divers to remove the existing corroded steel beams.
2. Bring in the new beams and use on site equipment to lower the beams into the area behind the trashrack.
3. Use divers to maneuver the beams into place and bolt them to the walls and trashrack.
4. Each beam will be replaced one at a time to minimize the risk of the trashrack imploding into the fishway water supply channels.

We intend to request the full amount of this project from the R&E board, however Fish Division is working to determine if various program funds are available to offset some of the cost for the repair. These programs are currently reviewing their budgets and should be able to determine if and how much funding will be available in the near future. Once Fish Division can collect these funding sources, we intend to use those funds to reduce the costs that will be covered by the R&E fund. If the project timing goes well, Fish Division plans to return the remaining funds to R&E by the Cycle 3 meeting (Spet 25-26). If the project lasts longer than expected, Fish Division would return remaining funds by Cycle 4.

### Engineering

*Does the project involve capital improvement, engineering, site grading or other construction?*

Yes

On ODFW land or managed by ODFW staff

### Project Management and Maintenance

*What is the life expectancy of R&E funded construction, structures, equipment, supplies, data or fishery?*

The life expectancy for this repair is in excess of 50 years. The agency expects the fishway will

require repairs well before these beams will need maintenance attention.

*Who is responsible for long term management, maintenance, and oversight of the project beyond what is funded by R&E.*

The Oregon Department of Fish & Wildlife is responsible for the long term management, maintenance and oversight of the project beyond the requested R&E funds. ODFW has staff on site daily to monitor the fishway. ODFW and PGE have regular maintenance inspections of the fishway (conducted monthly or yearly depending upon the item in question). ODFW is financially responsible for this repair action.

*Will the project require ongoing maintenance?*

No

*Is there a plan to collect baseline data and to conduct monitoring efforts to measure the effectiveness of the project?*

No

### ***Project Funding***

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#### *Funding*

*Have you applied for OWEB funding for this project?*

No

<b>Other Funding Source</b>	<b>Type</b>	<b>Secured</b>	<b>Dollar Value</b>	<b>Comments</b>
ODFW Deferred Maintenance Fund	Cash	Secured	11000	
ODFW Conservation PCSRF	Cash	Secured	20000	
ODFW FS&P PCSRF	Cash	Secured	30000	
ODFW Region Funding	Cash	Secured	63000	
		Total	124000	

## Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
<b>PROJECT MANAGEMENT</b>						
ODFW Engineering Section Proj Engr	0	0	7000	0	0	7000
		SUBTOTAL(1)	7000	0	0	7000
<b>IN-HOUSE PERSONNEL</b>						
ODFW Engineering Section Engr Tech	0	0	5000	0	0	5000
		SUBTOTAL(2)	5000	0	0	5000
<b>CONTRACTED SERVICES</b>						
Beam Replacement	0	0	0	8000	126000	134000
Sea Lion Exclusion Gate Entrance #3	0	0	0	8000	30000	38000
Sea Lion Exclusion Gate Entrance #2	0	0	0	8000	30000	38000
		SUBTOTAL(3)	0	24000	186000	210000
<b>TRAVEL</b>						
	0	0	0	0	0	0
		SUBTOTAL(4)	0	0	0	0
<b>SUPPLIES/MATERIALS</b>						
Stainless Steel Pipe & Misc Materials	0	0	0	100000	0	100000
		SUBTOTAL(5)	0	100000	0	100000
<b>EDUCATION/OUTREACH</b>						
	0	0	0	0	0	0
		SUBTOTAL(6)	0	0	0	0
<b>EQUIPMENT</b>						
	0	0	0	0	0	0
		SUBTOTAL(7)	0	0	0	0
<b>FISCAL ADMINISTRATION</b>						
	0	0	0	0	0	0
		SUBTOTAL(8)	0	0	0	0
		<b>BUDGET TOTAL</b>	12000	124000	186000	322000

## ***Additional Files***

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Click a link to view that particular file.

[Preliminary Plans](#)

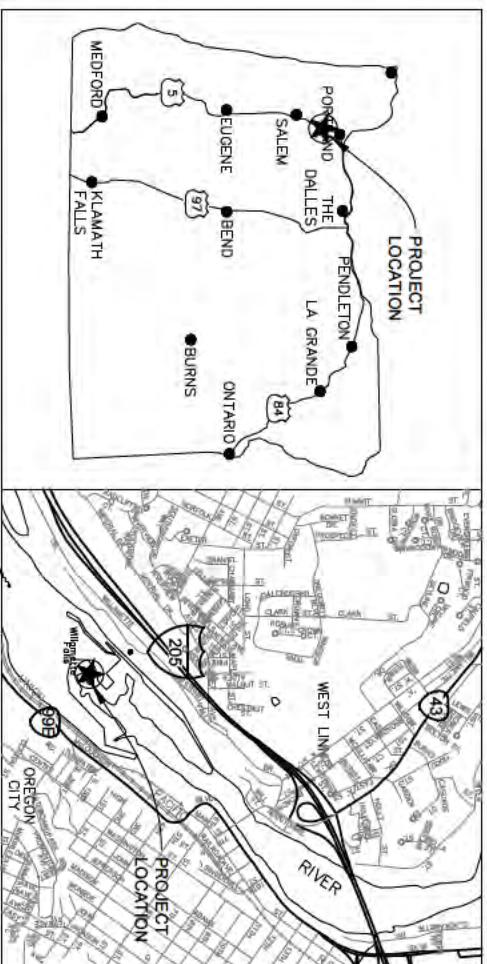
[Signature Authorization Page](#)

[Site Photo](#)

[Site Photo](#)

[Site Photo](#)

[Site Photo](#)



**A** LOCATION MAP  
1 SCALE: NTS

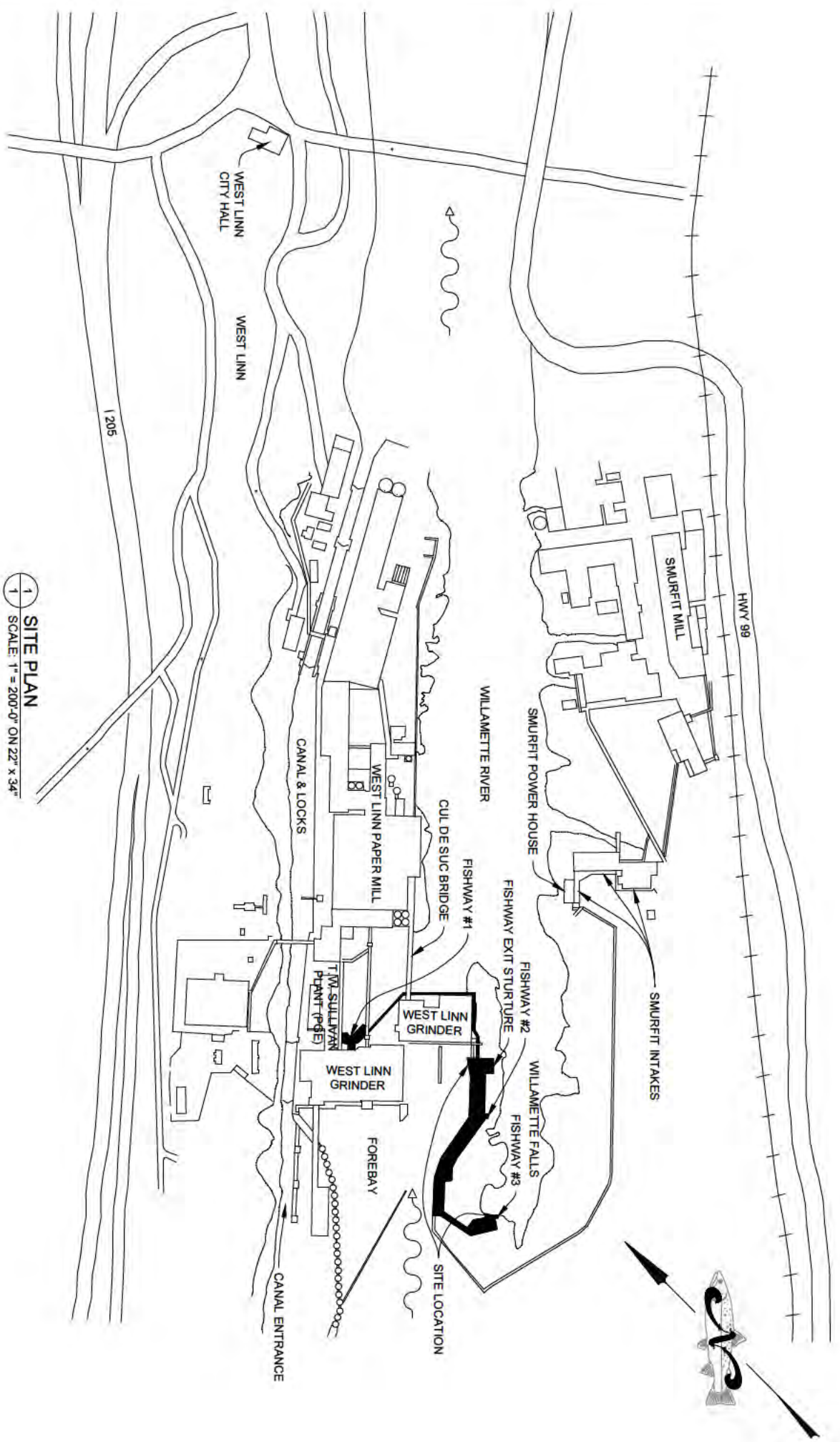
**B** VICINITY MAP  
1 SCALE: NTS

# WILLAMETTE FALLS FISHWAY TRASHRACK INTAKE REPAIR

4800 MILL ST.  
WEST LINN OR 97000

**INDEX OF DRAWINGS**

SHEET	TITLE
1	TITLE SITE PLAN, LOCATION AND VICINITY MAP
2	FISHWAY EXISTING TRASHRACK ELEVATION
3	FISHWAY EXISTING PLAN
4	FISHWAY EXISTING TRASHRACK ELEVATION
5	FISHWAY NEW TRASHRACK BEAM DETAILS
6	SEA LION EXCLUSION GRATE



**1** SITE PLAN  
1 SCALE: 1" = 200'-0" ON 22" x 34"

**WILLAMETTE FALL FISH LADDER  
INTAKE TRASH RACK REPAIR**

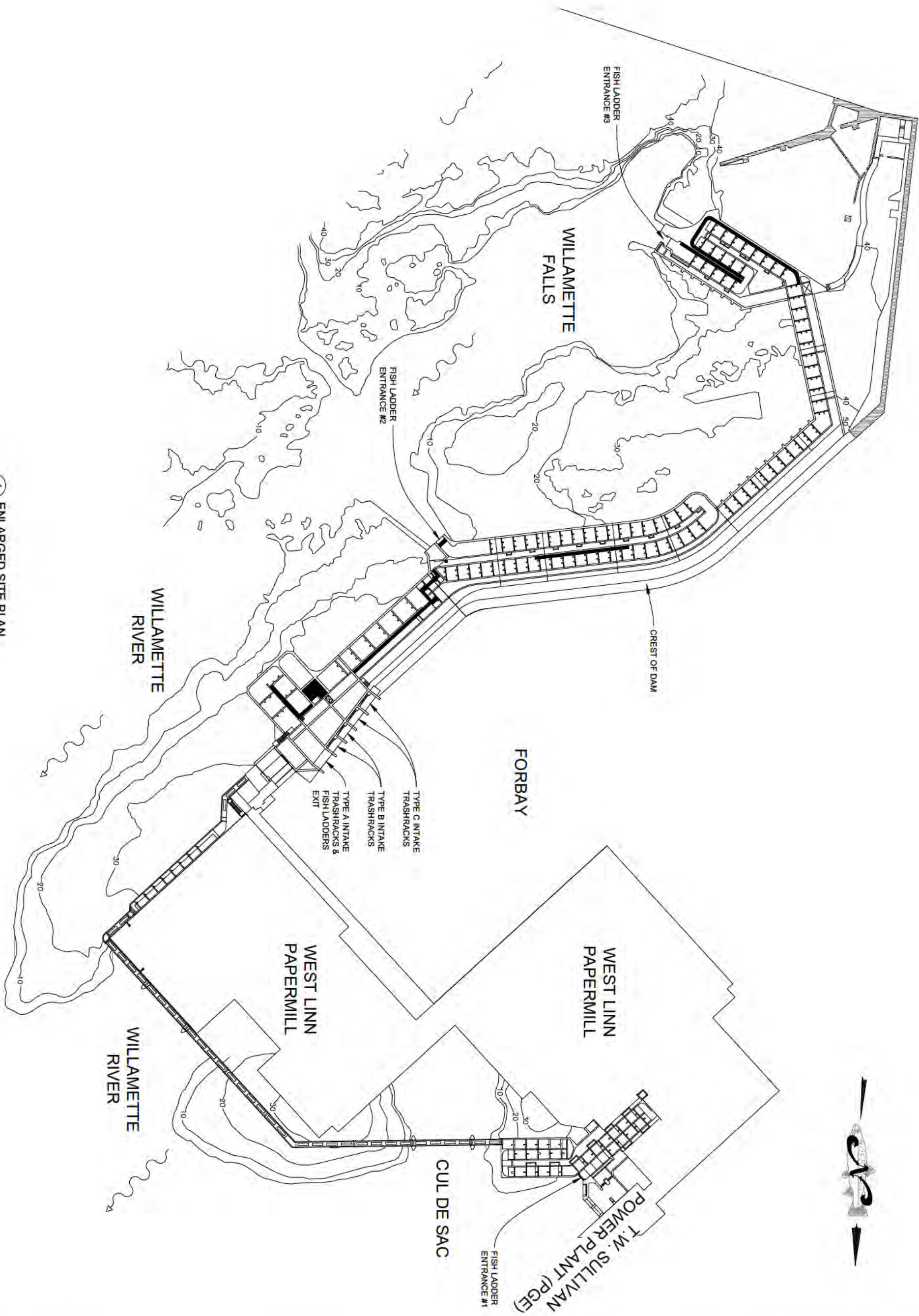
REV.	DATE	DESCRIPTION



**Oregon**  
DEPARTMENT OF FISH AND WILDLIFE  
FISH DIVISION  
ENGINEERING SECTION  
4034 FAIRVIEW INDUSTRIAL DRIVE SE  
SALEM, OREGON 97302-1142  
PHONE: (503) 947-6222 FAX: (503) 947-6203

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DATE: March 24, 2015	<p>CHIEF ENGINEER</p> <p>FILE NO. 15-012</p> <p>SHEET 1</p> <p>OF 6</p>
DESIGN BY: RLM	
DRAWN BY: CLM	
CHECKED BY: RLM	



1 ENLARGED SITE PLAN  
2 SCALE: 1" = 40'-0" ON 22" x 34"

**WILLAMETTE FALL FISH LADDER INTAKE TRASHRACK REPAIR**

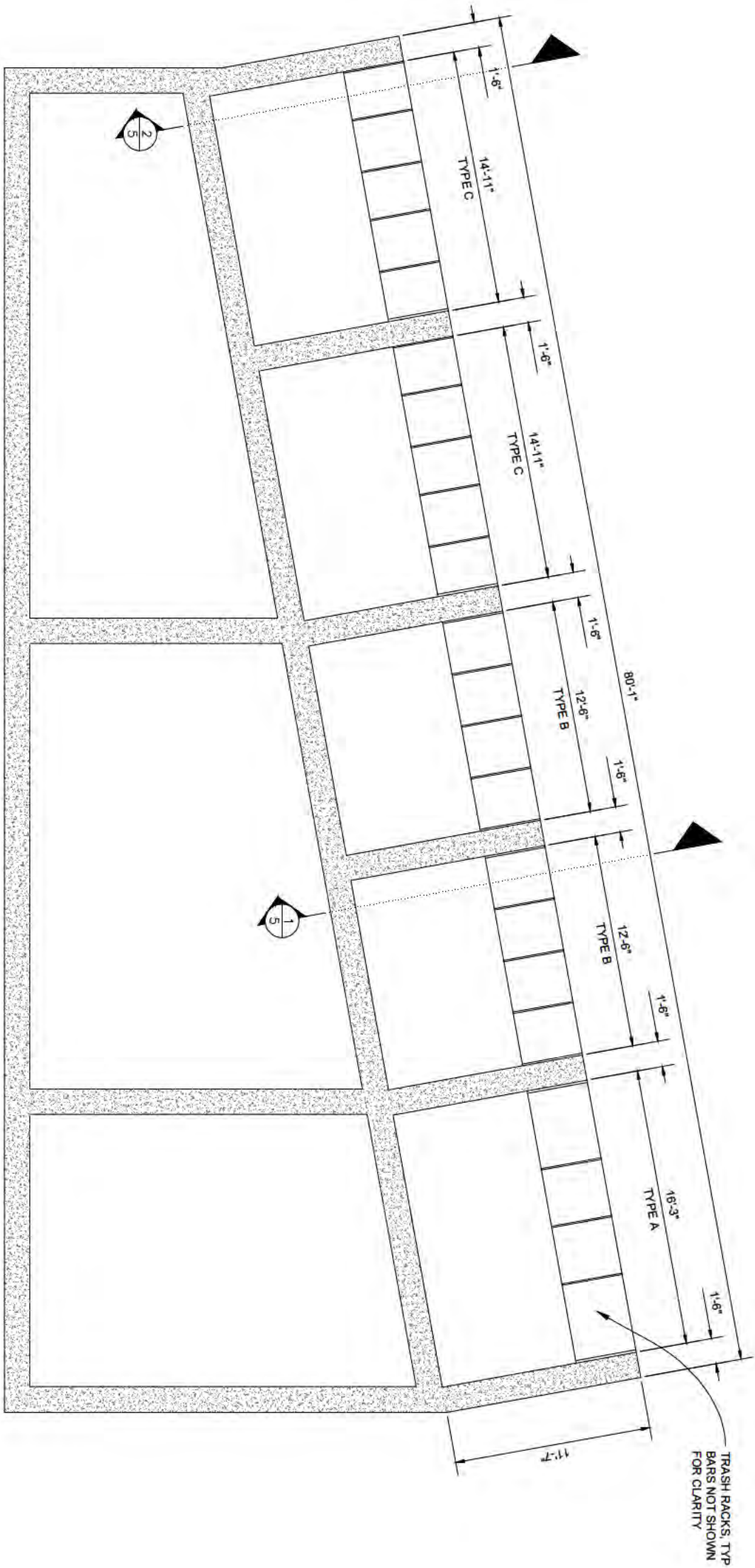
REV.	DATE	DESCRIPTION



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FILE NO. 15-012  
SHEET 2  
OF 6



1 PLAN VIEW  
SCALE: 1/2" = 1'-0" ON 22" x 34"

INTAKE TRASH RACK REPAIR  
FISHWAY EXSITING PLAN

REV.	DATE	DESCRIPTION



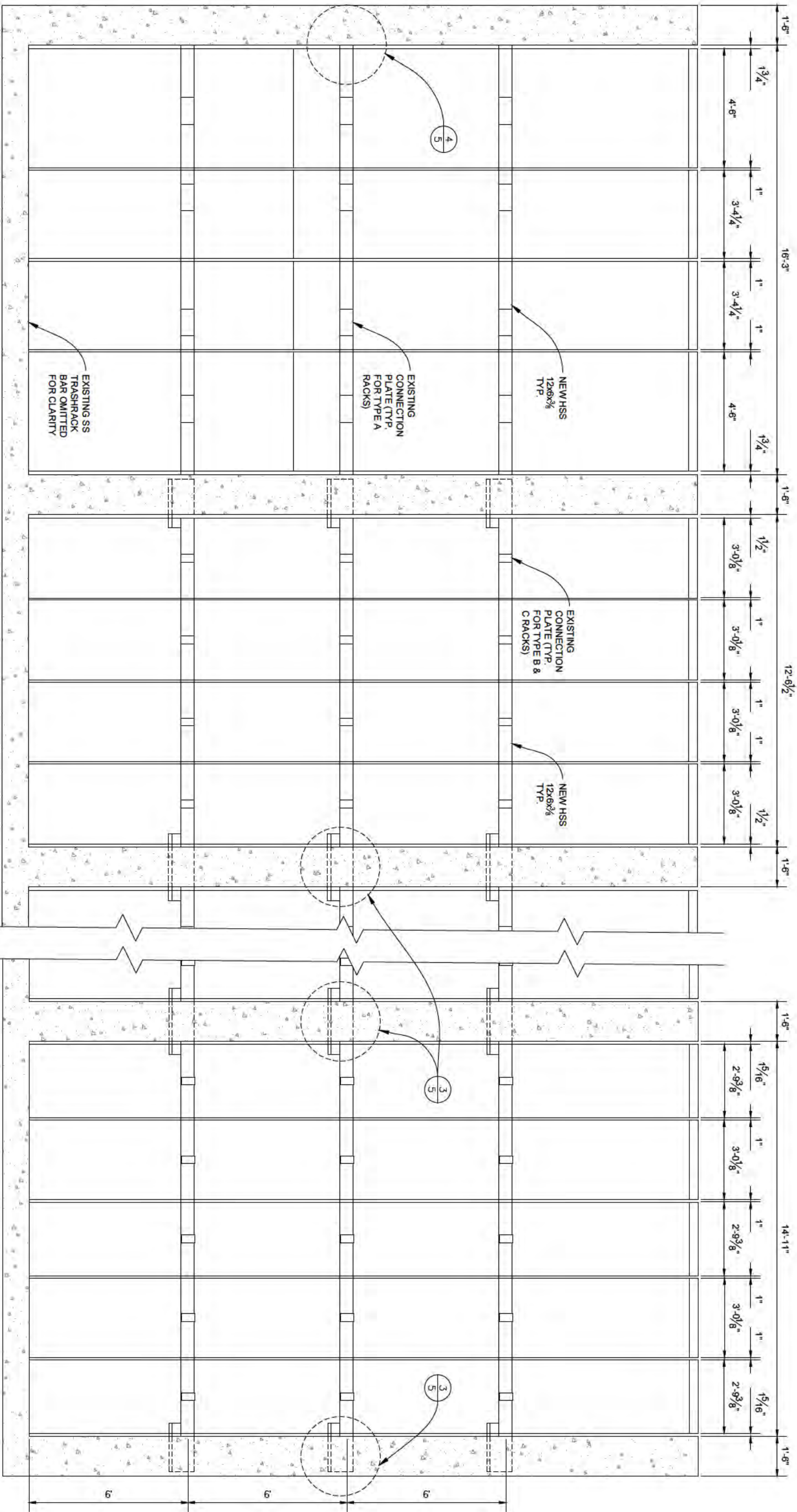
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SHEET 3  
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1 TYPE A TRASHRACK  
SCALE: 1/2" = 1'-0" ON 22" x 34"

1 TYPE B TRASHRACK  
SCALE: 1/2" = 1'-0" ON 22" x 34"

1 TYPE C TRASHRACK  
SCALE: 1/2" = 1'-0" ON 22" x 34"

NOTE  
GAPS ADD TO SHOW INDIVIDUAL TRASHRACK  
BARS OMITTED FOR CLARITY

WILLAMETTE FALL FISH LADDER  
INTAKE TRASH RACK REPAIR  
FISHWAY EXISTING TRASHRACK ELEVATION

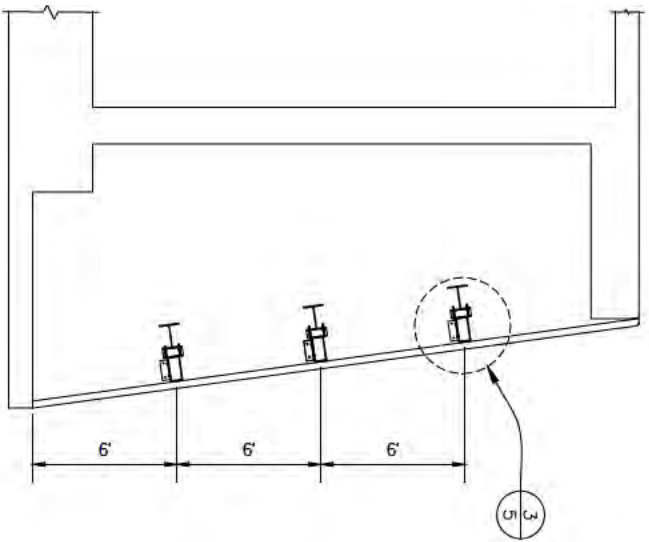
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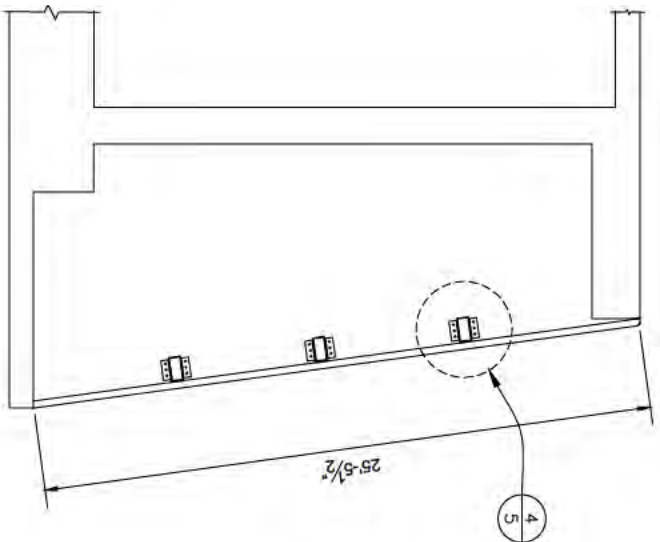
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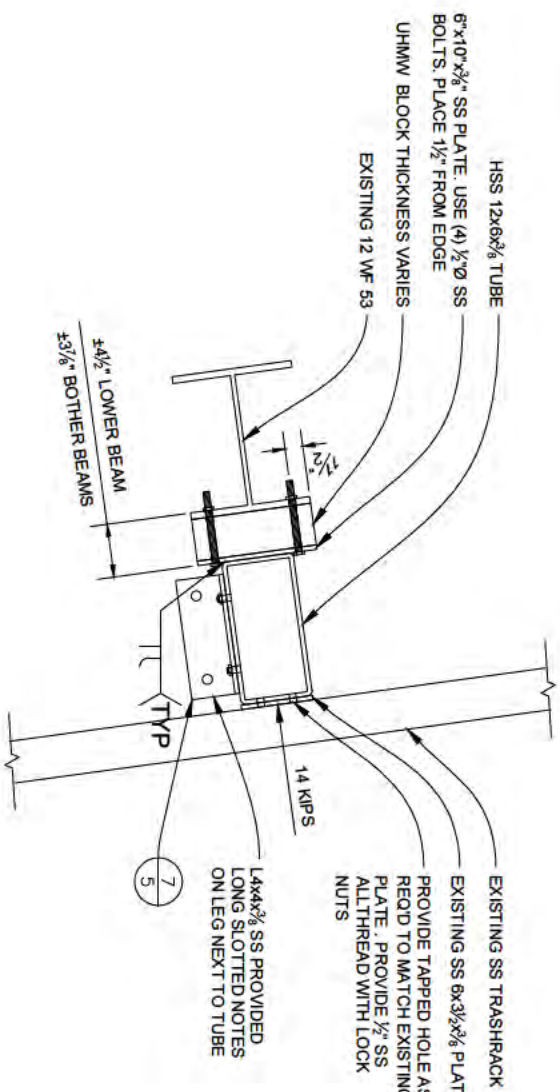
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DRAWN BY: CLM	CHECKED BY: RLM	FILE NO. 15-012
SHEET 4	OF 6	



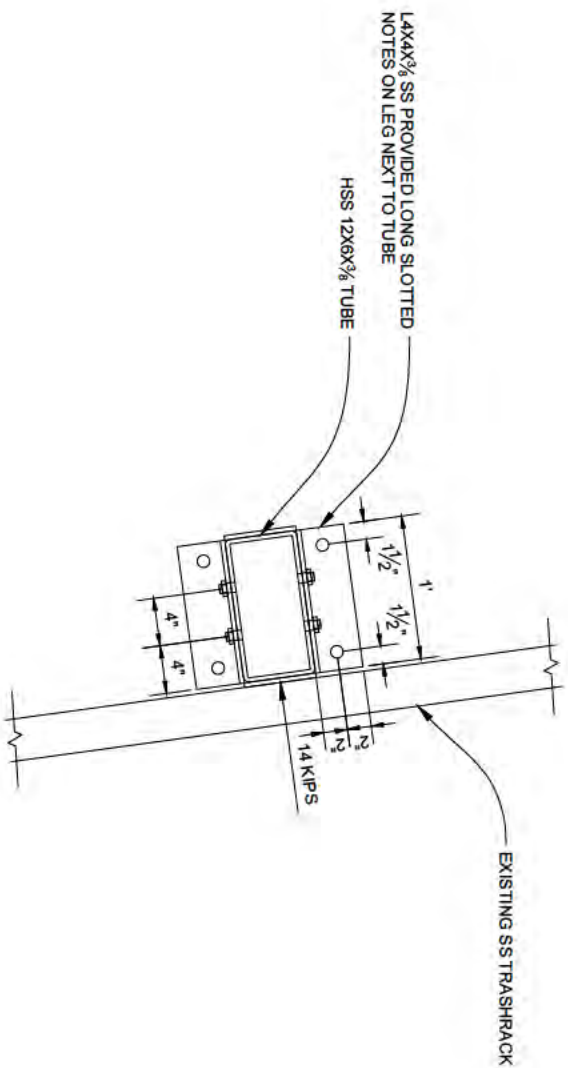
1 SECTION TYPE B & C  
5 SCALE: 1/2" = 1'-0" ON 22" x 34"



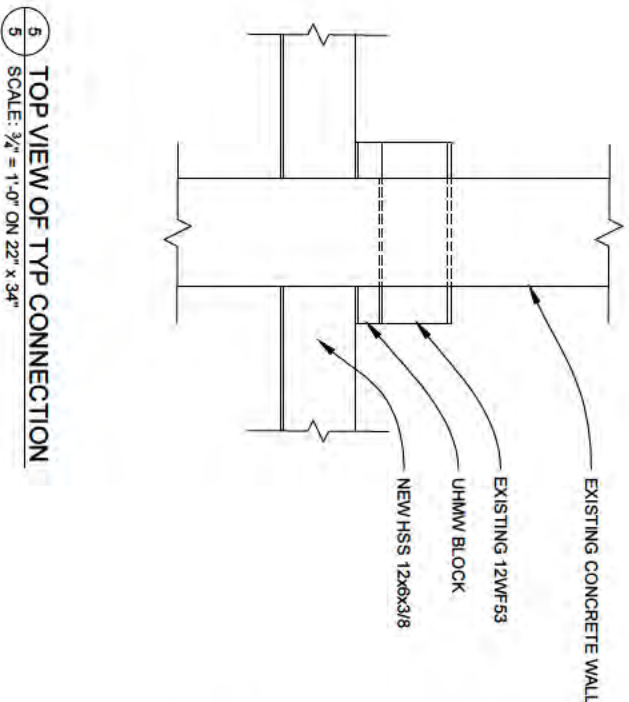
2 SECTION TYPE A  
5 SCALE: 1/2" = 1'-0" ON 22" x 34"



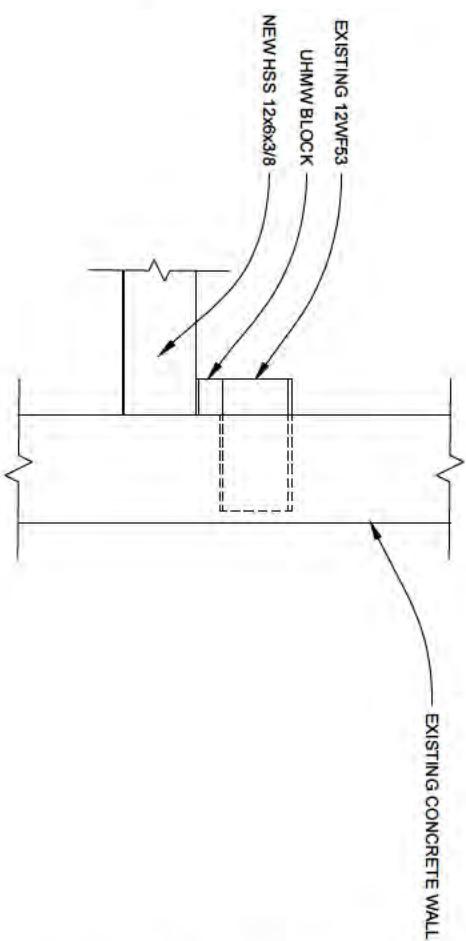
3 BEAM SUPPORT - TYPE 2  
5 SCALE: 1 1/2" = 1'-0" ON 22" x 34"



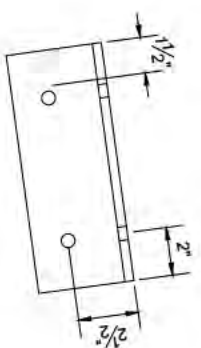
4 BEAM SUPPORT - TYPE 2  
5 SCALE: 1 1/2" = 1'-0" ON 22" x 34"



5 TOP VIEW OF TYP CONNECTION  
5 SCALE: 3/4" = 1'-0" ON 22" x 34"



6 TOP VIEW OF TYP CONNECTION  
5 SCALE: 3/4" = 1'-0" ON 22" x 34"



7 ANGLE DETAIL  
5 SCALE: 3" = 1'-0" ON 22" x 34"

WILLAMETTE FALL FISH LADDER  
INTAKE TRASH RACK REPAIR

FISHWAY NEW TRASHRACK BEAM DETAILS

REV.	DATE	DESCRIPTION



**Oregon**

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SHEET 5	OF 6	











**Applicant Signature Page**  
**Fish Restoration and Enhancement Program**  
(Oregon Department of Fish and Wildlife Applicants)

I hereby make an application for financial assistance under the terms and conditions of the Fish Restoration and Enhancement Program as described in my project application. I acknowledge that:

- This proposal is an identified priority at the  district,  region, and/or  state level and has been identified as such in the application (**check box** for appropriate level).
- This proposal is consistent with any applicable goals, policies, rules, species or basin management plans adopted by the F&W Commission and this has been explained in the application.
- This proposal will not be used to cover, back fill, or fund shift elements that have been cut or defunded as part of agency budget reductions. Approved deferred maintenance or projects with division approval are exceptions.

I understand that if my project proposal is approved for Restoration and Enhancement (R&E) Program funding, the following will apply:

- Applicants must sign an agreement containing the terms and conditions for the project implementation, release of funds, and documentation of completion. Non-compliance may impact future funding opportunities.
- The R&E Program will not pay for expenses which occur before the approved start date or after the end date.
- Funding is available one biennium only without prior authorization by the R&E Board.
- Applicant agrees to notify the R&E Program of all funds not needed for the project upon determination.
- Any inappropriate expenses using R&E funds will be corrected by the applicant immediately. By the close of the biennium any expenses exceeding, or not identified in, the grant approval will be reverted to a local cost code.
- Copies of all landowner, monitoring and maintenance agreements must be submitted to the R&E Program.
- Educational products resulting from projects are public domain.
- Information collected is subject to Oregon Public Records Law.
- As applicable, the project will be consistent with all federal, state, and local regulations, including the State Land Use Planning Goals & Local Land Use Plans, prior to any on the ground work.

By signing this application, I certify to the best of my knowledge that the information contained in the application are true, complete and accurate. If awarded funding the applicant agrees to follow all terms and conditions outlined in the agreement.

Project Title: Willamette Falls Fishway Exit Trashrock Repair

Applicant Name: Ryan McCormick Title: Acting Chief Engineer-ODFW

Applicant Signature:  Date: 4/1/15

**Manager Certification:**

To be completed by Watershed Manger, Hatchery Coordinator, Program Manager, or higher level manager.

- I concur with the statements above and the applicant has permission to request these funds.

Manger Name: \_\_\_\_\_ Title: \_\_\_\_\_

Manager Signature: \_\_\_\_\_ Date: \_\_\_\_\_