# **OPERATIONS AND MAINTENANCE MANUAL**

DFI No. 00649

# Facility Type: Water Quality Detention Pond/ Swale Combo



April, 2018

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APPENDIX A:

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Operations Plan and Profile Drawing(s) As-Constructed drawing pages Identification

Facility Types:	WQ Detention Pond/ Swale Combo		
	DFI-D00649		
Location:	Pacific Highway 001 Milepost - 251.65 to 251.60		

#### 1. Facility Contact Information

Chris Carman, ODOT Hydraulics Engineer (503) 986-2691.

#### 2. Construction

Engineer of Record:	ODOT Designer - Region 2 Tech. Center, Chris Carman, (503) 986-2691
Facility construction:	2015
V-File-	48V-008

#### 3. Overview

The pond/swale combo is located in the NW infield of the I-5/Keubler Interchange. Treatment of pollutants from the highway are achieved through sedimentation and infiltration through the water quality mix shown in section B-B in the operational plan.

### 4. Facility Haz Mat Spill Feature

The swale can be used to store a volume of liquid by blocking the outlet of the swale. A barrier such as a temporary berm made of sandbags could be used to prevent liquid from draining from the swale.

## 5. Auxiliary Outlet (High Flow Bypass)

Auxiliary Outlets are provided if the primary outlet control structure can not safely pass the projected high flows. Broad-crested spillway weirs and over flow risers are the two most common auxiliary outlets used in stormwater treatment facility design. The auxiliary outlet feature is either a part of the facility or an additional storm drain feature/structure.

The auxiliary outlet feature for this facility is:

□ Designed into facility

⊠ Other

This facility does not contain an auxiliary outlet feature. The facility was designed to receive runoff from the road and discharge into cross pipes.

## 6. Maintenance Requirements

Routine maintenance table for non-proprietary stormwater treatment and storage/detention facilities have been incorporated into ODOT's Maintenance Guide. These tables summarize the maintenance requirements for ponds, swales, filter strips, bioslopes, and detention tanks and vaults. Special maintenance requirements in addition to the routine requirements are noted below when applicable.

The ODOT Maintenance Guide can be viewed at the following website:

https://www.oregon.gov/ODOT/HWY/OOM/mg/02/act125\_waterqualityfacil andtables.pdf

The following stormwater facility maintenance table (See ODOT Maintenance Guide) should be used to maintain the facility outlined in this Operation and Maintenance Manual or follow the Maintenance requirements outlined in Appendix C when proprietary structure is selected below:

- ☑ Table 1 (general maintenance)
- □ Table 2 (stormwater ponds)
- $\boxtimes$  Table 3 (water quality biofiltration swales)

□ Table 4 (water quality filter strips)

- □ Table 5 (water quality bioslopes)
- □ Table 6 (detention tank)
- $\Box$  Table 7 (detention vault)
- □ Appendix C (proprietary structure)
- □ Special Maintenance requirements:

### 7. Waste Material Handling

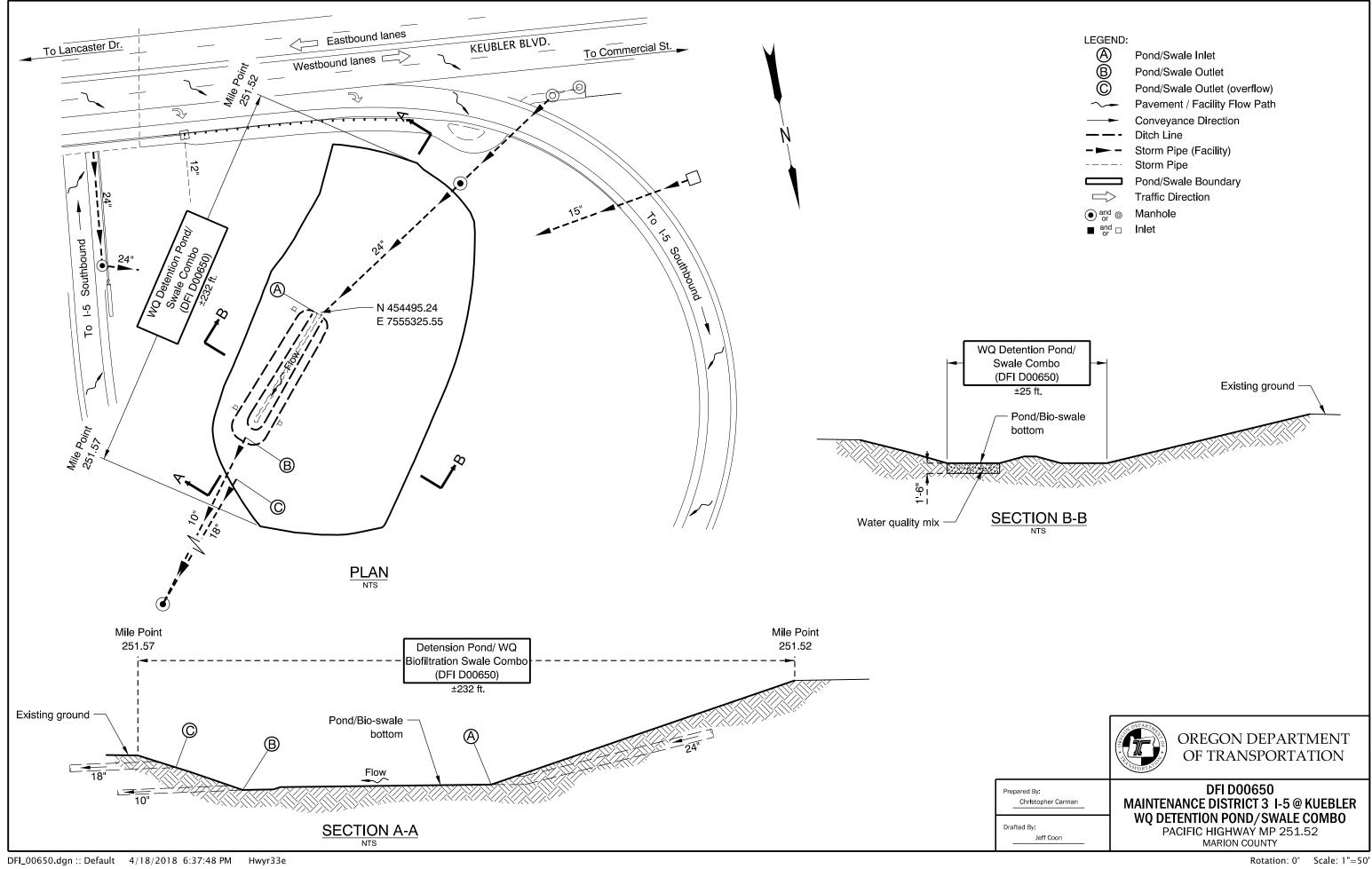
Material removed from the facility is defined as waste by DEQ. Refer to the roadwaste section 5.18 of the ODOT Maintenance Yard Environmental Management System (EMS) Policy and Procedures Manual for disposal options:

https://www.oregon.gov/ODOT/HWY/OOM/EMSdoc/ems\_manual.pdf

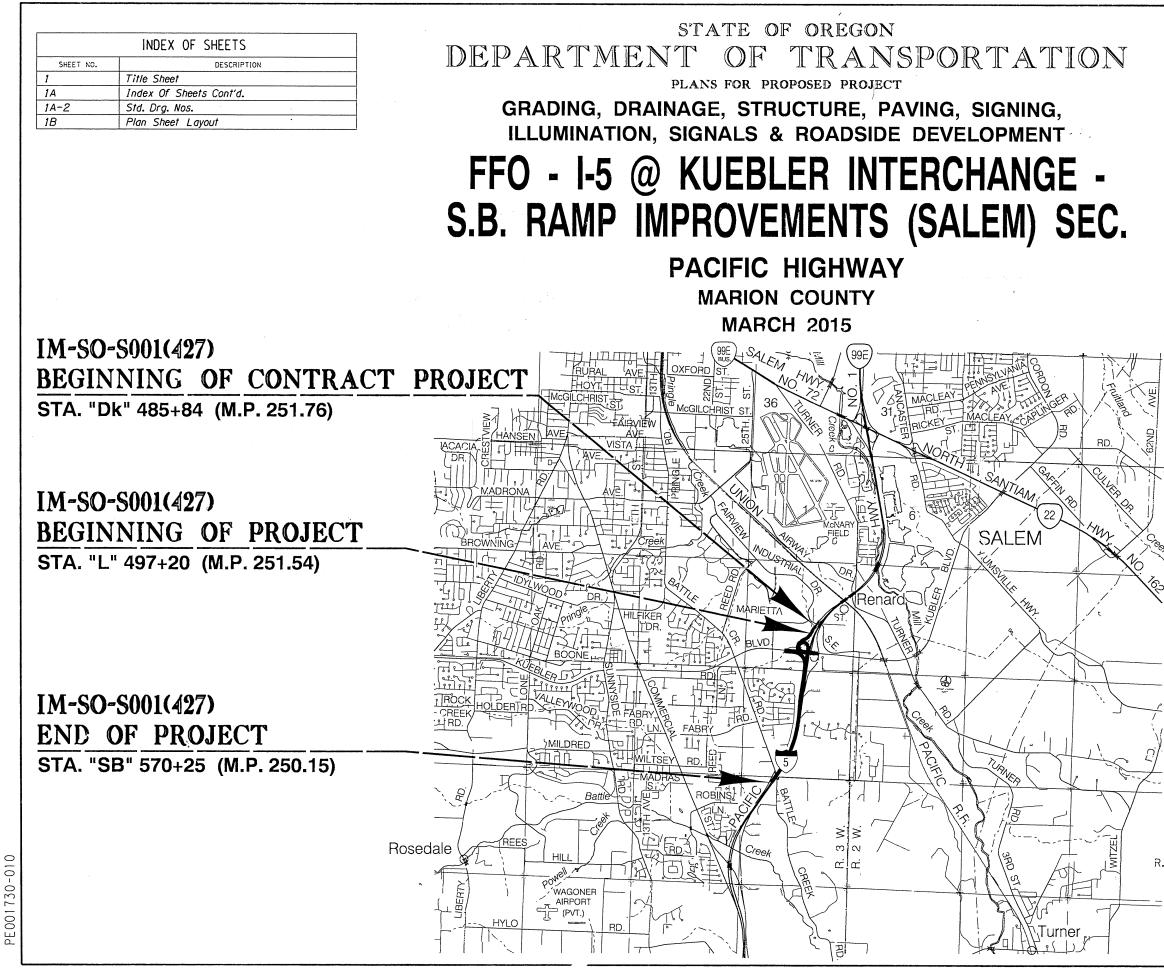
Contact any of the following for more detailed information about management of waste materials found on site:

ODOT Clean Water Unit	(503) 986-3008
ODOT Statewide Hazmat Coordinator	(503) 229-5129
ODOT Region Hazmat Coordinator	(503) 986-2647
ODEQ Northwest Region Office	(503) 229-5263

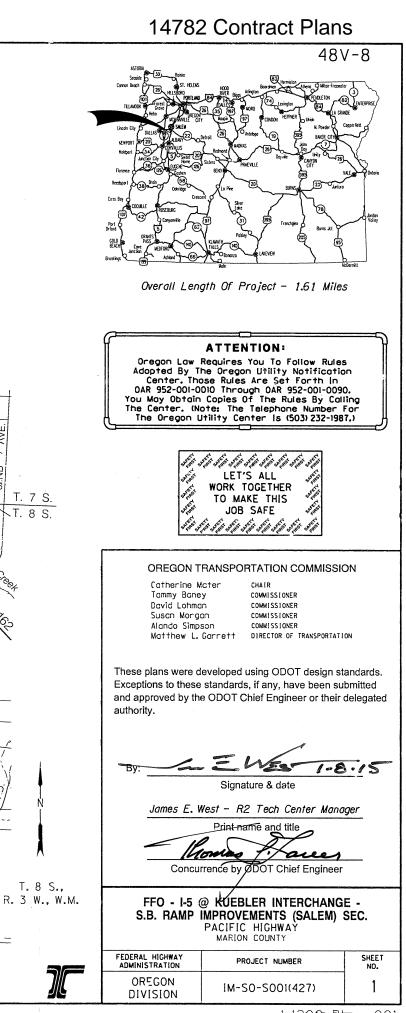
Appendix A: Operational Plan



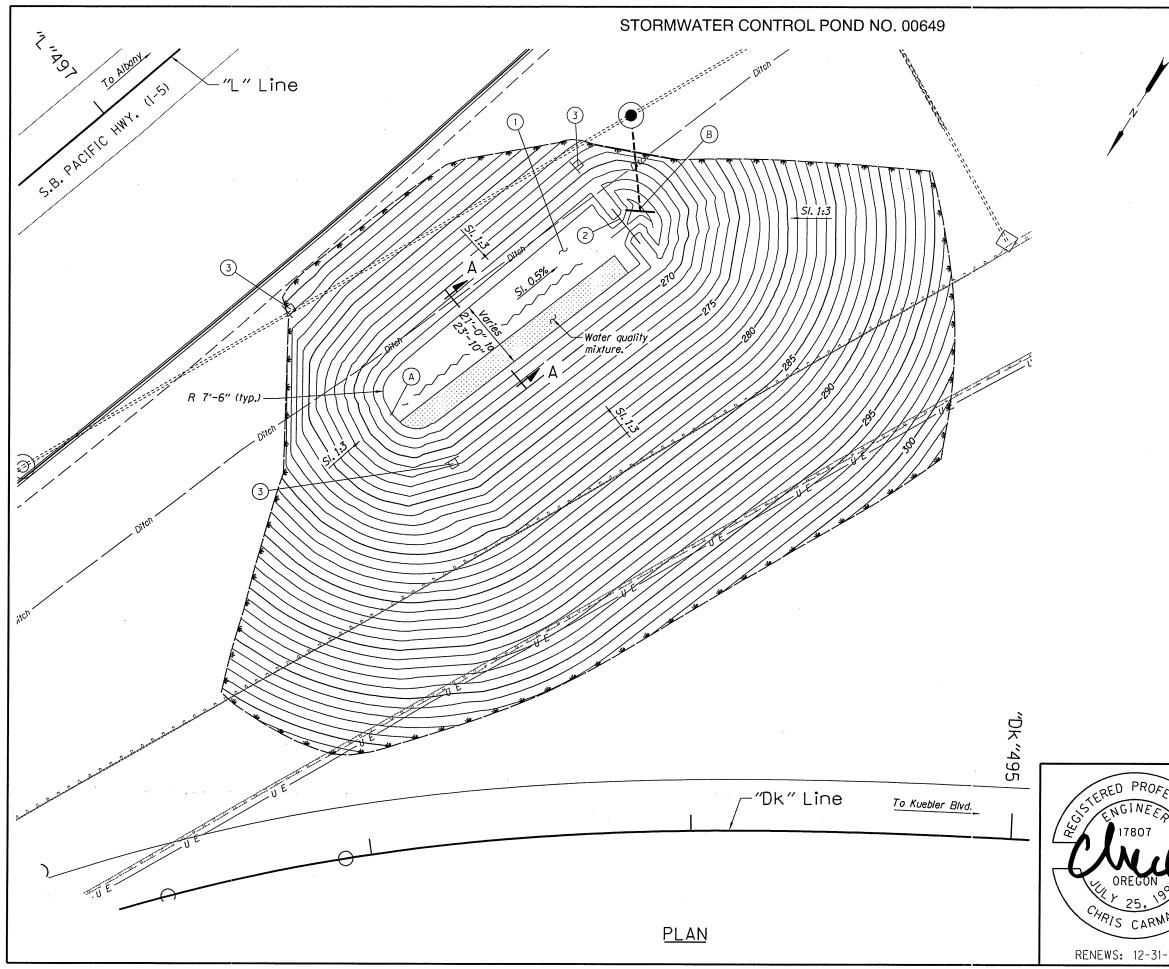
# Appendix B: As-Construct Drawings



F:\0D0T\_DATA\Projects\16858KueblerSBramps\16858R2.ts1 :: Default 12/15/2014 1:32:01 PM



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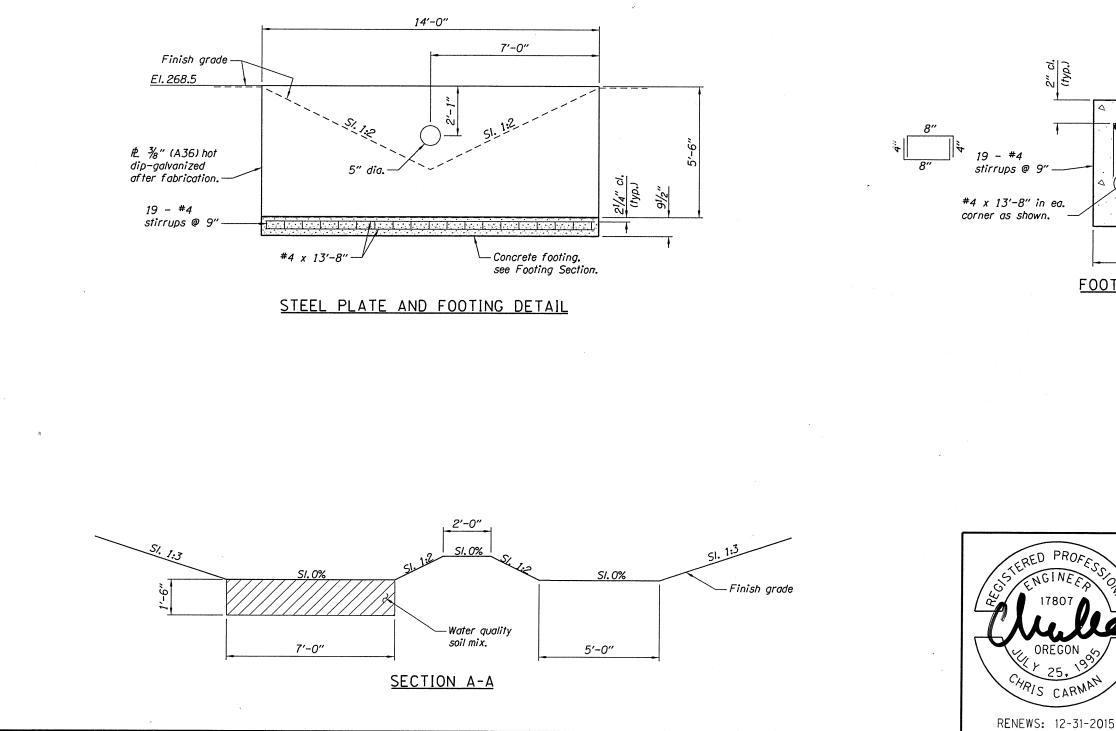
1) Sta. "Dk"492+99 Lt. to Sta. "Dk"494+80 Lt. Const. stormwater control pond no. 00649 Water quality mixture – 35 cu.yd. General excavation – 13,540 cu.yd.

14782 Contract Plans 48V-8

(2) Steel plate (For details, see on sht. GJ-2)

(3) Stormwater facility marker, Types 1 & 2 (See dwg. RD399)

	POND ELEV	ATION TABLE					
LOCATION	NORTHING	EASTING	ELEVATION				
A B	454919.32 454.825.03	7555562.12 7555529.06	266.50 266.00				
	1 10 11020100	11000020000					
	<u>Notes:</u> Slopes are shown as vert, to horiz.						
	For Section A-A and plate details, see sht. GJ-2.						
	For location, s	see Roadway pla	ns.				
	OREC OREC	GON DEPARTM	ENT OF TRANSP	ORTATION			
ESC	REGION 2 TECH CENTER						
25510NAL	FFO - I-5 @ KUEBLER INTERCHANGE - S.B. RAMP IMPROVEMENTS (SALEM) SEC. PACIFIC HIGHWAY MARION COUNTY						
837	Reviewed By - Bruce Carmichael Designed By - Chris Carman Drafted By - Michael Skelton						
-2015	\$ T	FORMWAT PLAN	ER	sheet NO. G J			
		Rc	otation: 0° S	cale: 1''=30'			
	142/387						



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