

OPERATION & MAINTENANCE MANUAL

D00861



INDEX

1. Identification	2
2. Facility Contact Information	2
3. Construction	2
4. Storm Drain System and Facility Overview	2
5. Facility Haz Mat Spill Features	3
6. Auxiliary Outlet (High Flow Bypass)	3
7. Maintenance Requirements	3
8. Waste Material Handling	4

APPENDIX A: Operation Plan and Profile

APPENDIX B: ODOT Plan Sheets

1. Identification

Drainage Facility ID Nos.: D00861

Facility Name: LaPine/US 97 detention pond

Project Name: US 97 – 1st Street (LaPine)

Facility Type: Detention Pond

Drawings: 47V-153

Location: District 10, Highway #4, MP167.4 to 167.5, LT

2. Facility Contact Information,

Michael Ogden, PE, ODOT Region 4 Hydraulics Engineer (541) 388-6288

3. Construction

Construction is to be completed in the year 2016.
The contractor is yet to be decided.

4. Storm Drain System and Facility Overview

The facility consists of a detention pond in which drains 1.92 acres. Runoff is directed towards the pond by means of drainage ditches, drainage curb, and a system of inlets and storm sewer pipes. The drainage area extends from the ODOT Maintenance facility and 550' north up US97.

- A. Maintenance equipment access:
Maintenance access to the facility is obtained from US97
- B. Heavy equipment access into facility:
Allowed (no limitations)
- C. Special features:
Amended Soils

5. Haz Mat Spill Operation

The pond can be used to collect hazardous material liquid.

6. Auxiliary Outlet (High Flow Bypass)

Elevation And Type

The outlet system for this pond utilizes an overflow weir at the north end of the pond. The water quality design volume is dissipated entirely by infiltration, and flows above that volume are passed through the pond by way of the auxiliary inlet.

Direction and Flowpath

The overflow weir is designed to convey any water in excess of the 100 Year storm. Should an overflow event occur the weirs will direct flow north and away from developed areas.

7. Maintenance Requirements

Routine maintenance tables 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:

<http://www.oregon.gov/ODOT/HWY/OOM/MGuide.shtml>

The following stormwater facility maintenance table (See ODOT Maintenance Guide) should be used to maintain the facility outlined in this Operation and Maintenance Manual as selected below:

Table 1 (general maintenance)

Table 2 (stormwater ponds)

8. Waste Material Handling

Material cleaned from the facility is defined as waste by DEQ. This means the material must be disposed at a permitted waste management facility (landfill, incinerator, etc.) or managed, reused, or recycled according to DEQ waste rules.

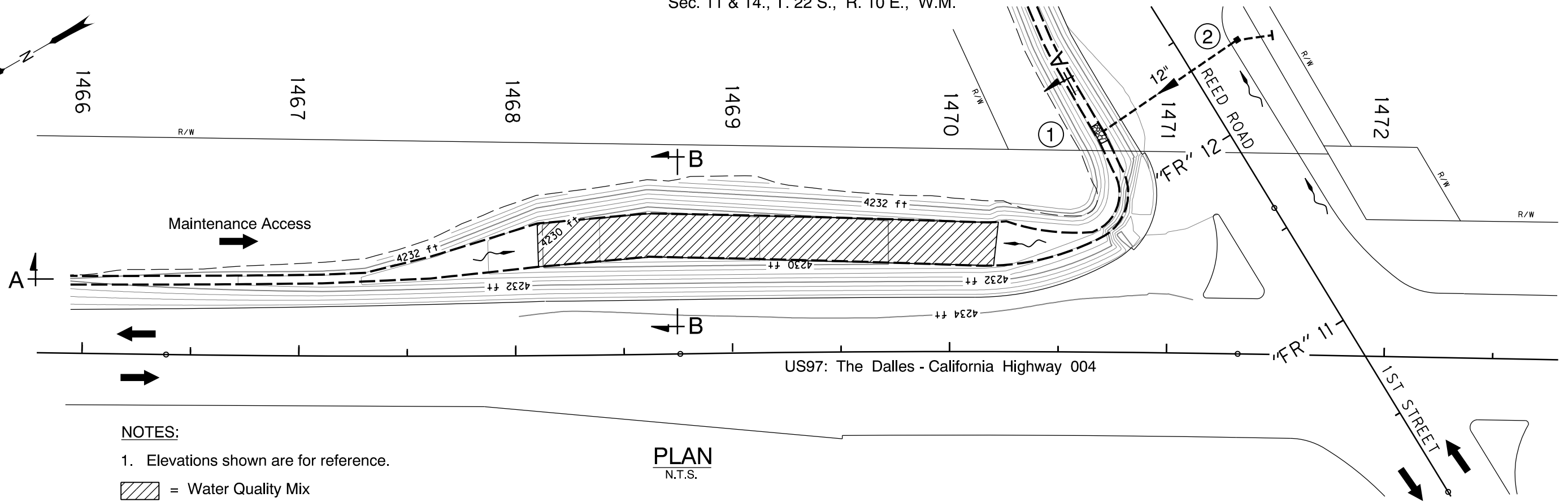
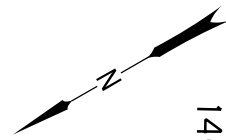
Management of road waste and the rules that surround it are extremely complicated. Refer to the roadwaste section of the ODOT Maintenance Yard Environmental Management System (EMS) Policy and Procedures Manual for disposal options:

<http://egov.oregon.gov/ODOT/HWY/OOM/EMS.shtml>

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 4 Hazmat Coordinator	(541) 388-6088
ODEQ Region Office	(541) 388-6146

APPENDIX A: Operation Plan and Profile

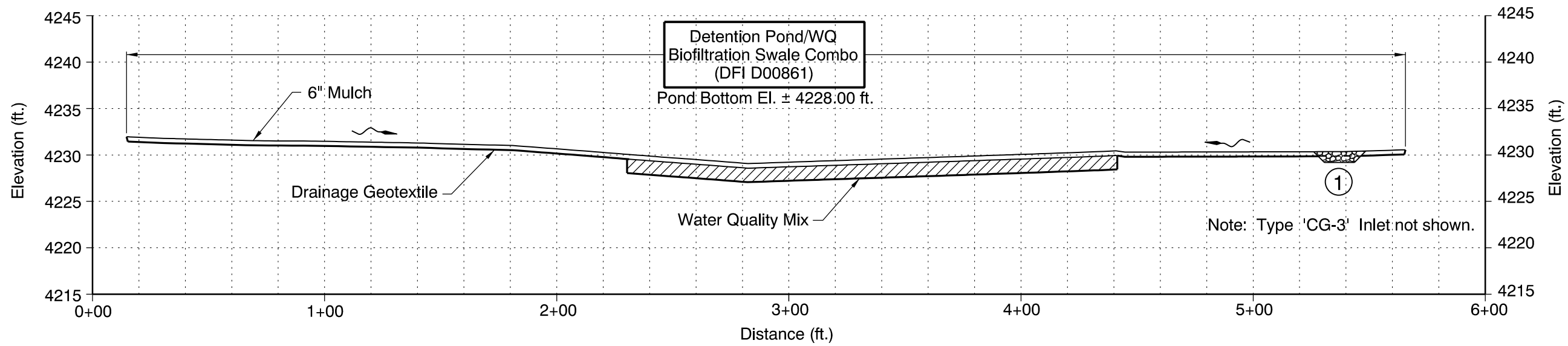


NOTES:

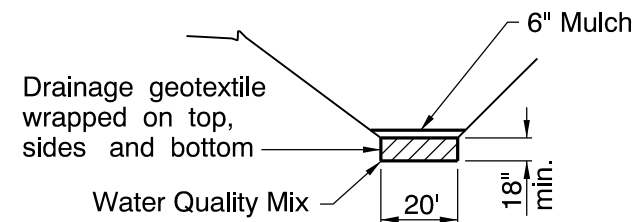
1. Elevations shown are for reference.

= Water Quality Mix

PLAN
N.T.S.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

LEGEND

- ① Flow Spreader/Energy Dissipator
- ② Type 'CG-3' Inlet
- Water Quality Mix
- Storm Pipe (Facility) 12"
- Inlet
- Flow Path

Prepared By:
Michael W. Ogden

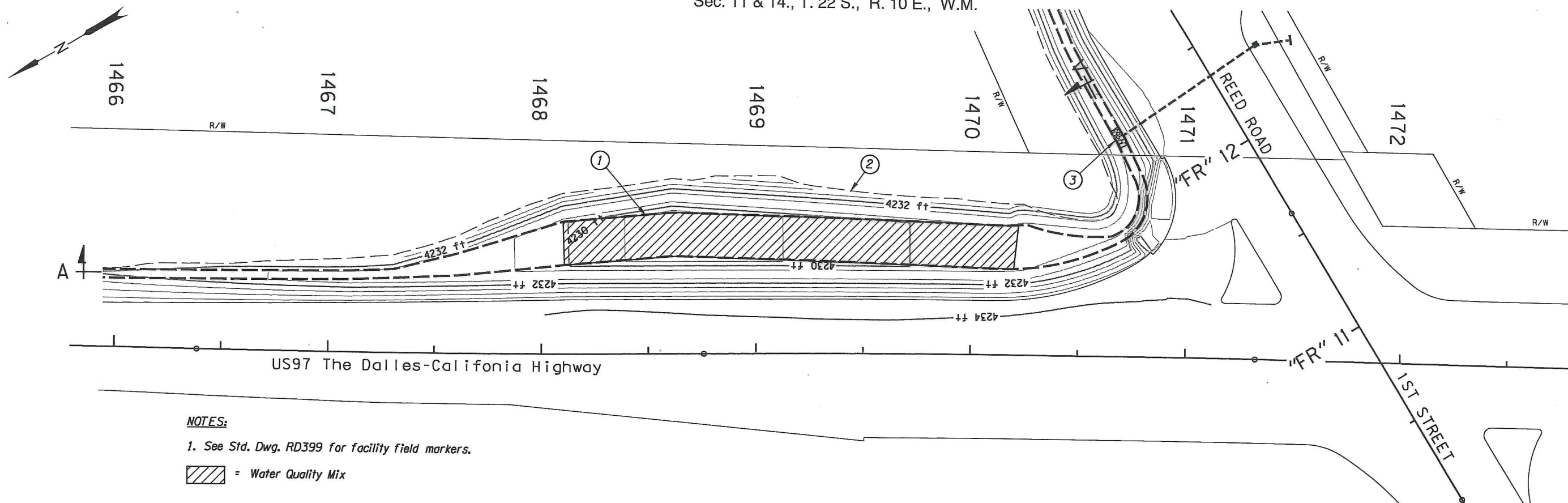
Drafted By:
Michael L. Graves

Sht. 1 of 1

OREGON DEPARTMENT OF TRANSPORTATION

DFI D00861
MAINTENANCE DISTRICT 11 HWY 004
DETENTION POND/WQ BIOFILTRATION SWALE
THE DALLES-CALIFORNIA HIGHWAY
DESCHUTES COUNTY

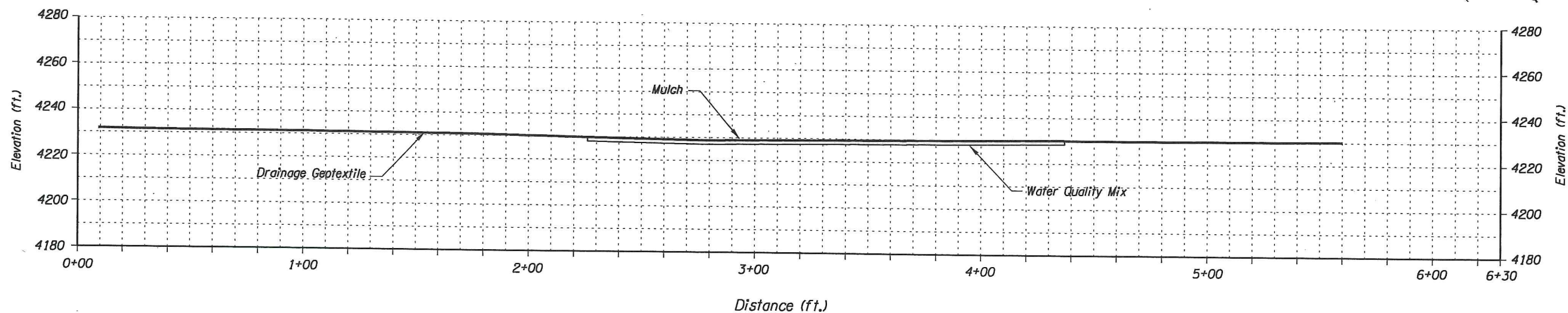
APPENDIX B: ODOT Plan Sheets



NOTES:

1. See Std. Dwg. RD399 for facility field markers.

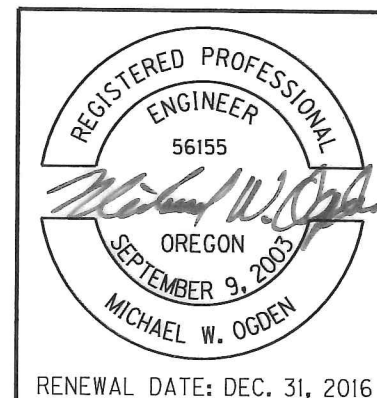
 = Water Quality Mix



SECTION A-A

1" = 50'

- ① Sta. 1468+10.32 Lt. to Sta. 1470+21.35 Lt. Construct Storage Pond Water Quality Mix 235.0 cu.yds.
- ② Sta. 1465+94.60 Lt. to Sta. 1470+53.35 Lt. Construct Water Quality Detention Pond. 560'-0" Total Length
- ③ Sta. 1470+68.81 Rt. Construct loose rip-rap basin (Class 50) 3.0 cu.yds. Install 12" dia. ductile iron pipe 75.0 ft. length at 5 ft. depth. For details, see sheet "GJ-3".



RENEWAL DATE: DEC. 31, 2016

OREGON DEPARTMENT OF TRANSPORTATION

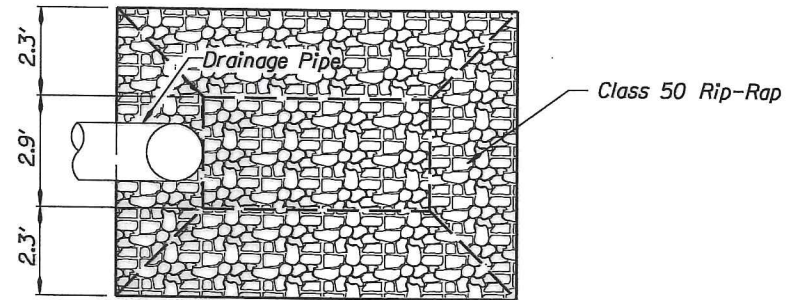
REGION 4 TECHNICAL CENTER

US97 @ 1ST STREET (LA PINE) PROJECT
THE DALLES - CALIFORNIA HIGHWAY
DESCHUTES COUNTY

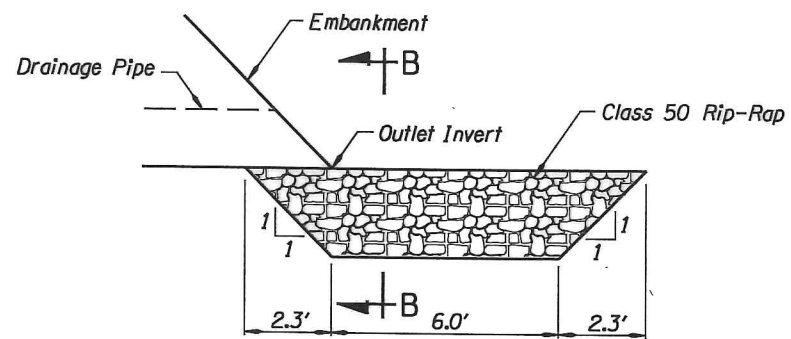
Reviewed by - Michael W. Ogden
Designed by - Martin R. Matejsek
Drafted by - Michael L. Graves

WATER QUALITY POND
SITE (EAST)

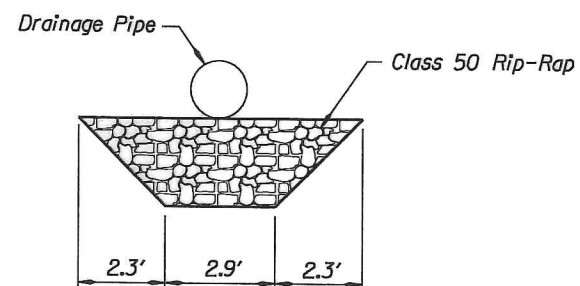
SHEET NO.
GJ-2



PLAN

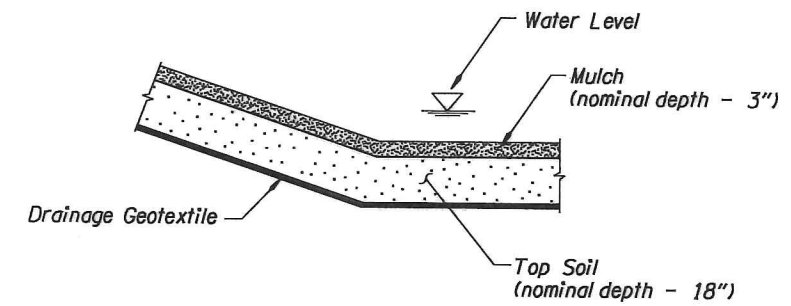


ELEVATION



SECTION B-B

RIP RAP PAD DETAIL
Not to Scale



FILTER LAYER DETAIL

Not to Scale

OREGON DEPARTMENT OF TRANSPORTATION

REGION 4 TECHNICAL CENTER

US97 @ 1ST STREET (LA PINE) PROJECT
THE DALLES - CALIFORNIA HIGHWAY
DESCHUTES COUNTY

Reviewed by - Michael W. Ogden
Designed by - Martin R. Matejsek
Drafted by - Michael L. Graves

**WATER QUALITY POND
DETAILS**

SHEET
NO.
GJ-3

