

OPERATION & MAINTENANCE MANUAL

DFI No.: D00834

**Facility Type: Water Quality
Bioretention Pond**



November, 2018

1. Identification

Drainage Facility ID (DFI): **D00834**
Facility Type: Water Quality Bioretention Pond
Construction Drawings: 49V-019
Location: District: 08
Highway No.: 022
Mile Post: 2.79; 2.99 (beg./end)
Description: This facility is located along the west side of the OR 62 Expressway to the north of the Coker Butte Rd. overpass. Access is located via Coker Butte Rd.

2. Facility Contact Information

Contact the Engineer of Record, Region Technical Center, or Geo-Environmental's Senior Hydraulics Engineer for:

- Operational clarification
- Maintenance clarification
- Repair or restoration assistance

Engineering Contacts:

Region Technical Center Hydro Unit Manager

Or

Geo-Environmental Senior Hydraulics Engineer (503) 986-3365.

3. Construction

Engineer of Record: Ben Wewerka – OBEC Consulting Engineers
Facility construction: 2018
Contractor: LTM, Inc. dba Knife River Materials

4. Storm Drain System and Facility Overview

A water quality bioretention pond is a basin that is designed to capture stormwater runoff and infiltrate it through a water quality mixture to remove pollutants. Pollutant removal is accomplished through physical, biological, and chemical treatment processes. The size of these facilities depends on the location and the amount of contributing impervious area.

This bioretention pond is located along the west side of the OR 62 Expressway to the north of the Coker Butte Rd. The drainage is collected by a series of inlets and conveyed to the facility by multiple 12-inch storm pipes. The drainage area includes northbound and southbound lanes of the OR 62 Expressway. All stormwater is conveyed into the bioretention pond and drains out through a Type D Outlet structure and outfalls into Upton Creek; see the Operational Plan, Appendix A.

A. Maintenance equipment access:

The facility can be accessed via Coker Butte Rd.

B. Heavy equipment access into facility:

- Allowed (no limitations)
- Allowed (with limitations)
- Not allowed

C. Special Features:

- Amended Soils
- Porous Pavers
- Liners
- Underdrains

5. Facility Haz Mat Spill Feature(s)

The water quality bioretention pond can be used to store a volume of liquid by blocking the Type D outlet structure.

6. 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, as noted below

7. 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:

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

Maintenance requirements for proprietary structures, such as underground water quality manholes and/or vaults with filter media are noted in Appendix C when applicable.

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)
- Table 3 (water quality or biofiltration swales)
- Table 4 (water quality filter strips)
- Table 5 (water quality bioslopes)
- Table 6 (detention tank)
- Table 7 (detention vault)
- Appendix C (proprietary structure)
- Special Maintenance requirements:

Note: Special maintenance Requirements Require Concurrence from ODOT SR Hydraulics Engineer.

8. Waste Material Handling

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

http://www.oregon.gov/ODOT/Maintenance/Documents/ems_manual.pdf

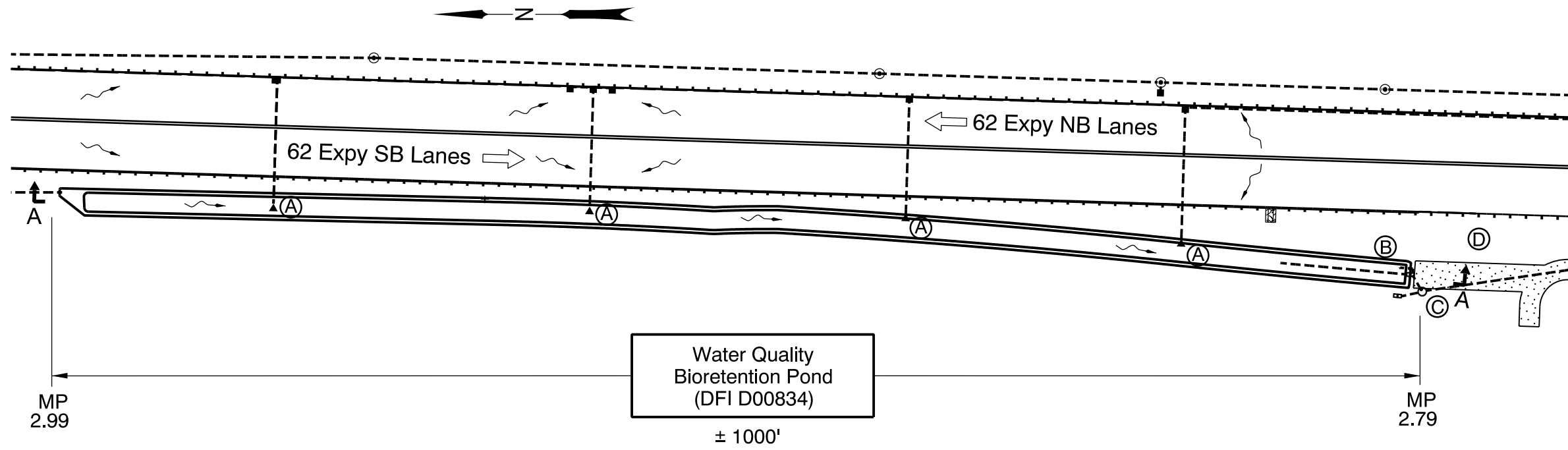
Contact any of the following for more detailed information about management of waste materials found on site:

ODOT Clean Water Unit	(503) 986-3008
ODOT Statewide Hazmat Coordinator	(503) 667-7442
ODOT Region 1 Hazmat Coordinator	(503) 731-8290
ODOT Region 2 Hazmat Coordinator	(503) 986-2647
ODOT Region 3 Hazmat Coordinator	(541) 957-3594
ODOT Region 4 Hazmat Coordinator	(541) 388-6186
ODOT Region 5 Hazmat Coordinator	(541) 963-1590
ODEQ Northwest Region Office	(503) 229-5263

Appendix A

Content:

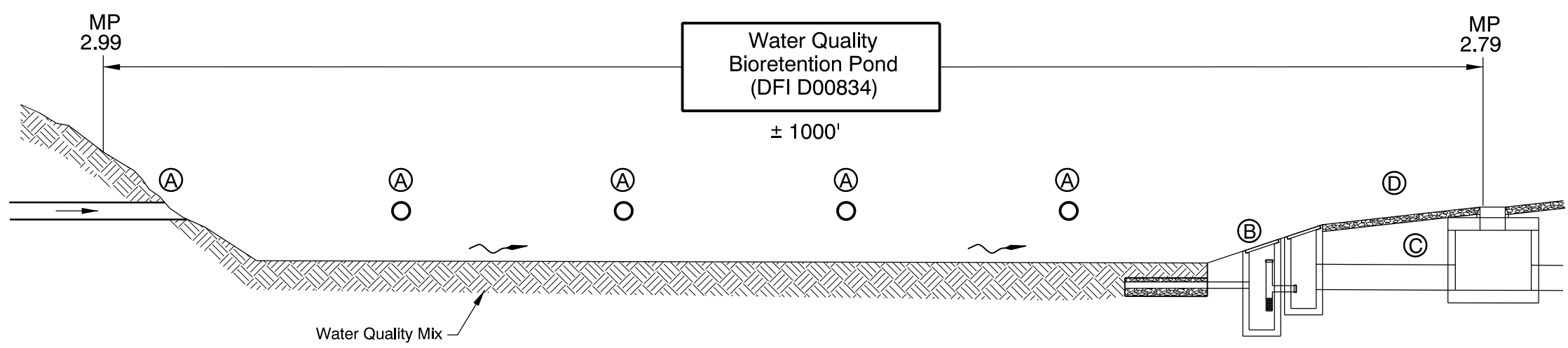
- **Operational Plan and Profile Drawing(s)**



Water Quality
Bioretention Pond
(DFI D00834)
± 1000'

PLAN
N.T.S.

- LEGEND:
- (A) Pond Inlet
 - (B) Pond Outlet
 - (C) Outfall
 - (D) Maintenance Access
 - and ⊙ Manhole
 - and □ Inlet
 - Storm Pipe (Facility)
 - - - Storm Pipe
 - Conveyance Direction
 - ~ Pavement / Facility Flow Path
 - ← Traffic Flow Direction



Water Quality
Bioretention Pond
(DFI D00834)
± 1000'

SECTION A-A
N.T.S.



OREGON DEPARTMENT
OF TRANSPORTATION

Prepared By:
J. Gonzalez

Drafted By:
J. Gonzalez

DFI D00834
MAINTENANCE DISTRICT 8 HWY 022
WATER QUALITY BIORETENTION POND
HIGHWAY MP 2.79 TO 2.99
JACKSON

Appendix B

Content:

- **ODOT Project Plan Sheets**
 - *Cover/Title Sheet*
 - *Water Quality/Detention Plan Sheets*
 - *Other Details*

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1A	Index Of Sheets Cont'd.

STATE OF OREGON
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

GRADING, DRAINAGE, STRUCTURES, PAVING, SIGNING,
ILLUMINATION, SIGNALS & ROADSIDE DEVELOPMENT

OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)

CRATER LAKE HIGHWAY

JACKSON COUNTY

FEBRUARY 2016

BEGINNING OF PROJECT

STP-S022(040)

STA. "B" 2197+00 (M.P. 1.69)

BEGINNING OF PROJECT

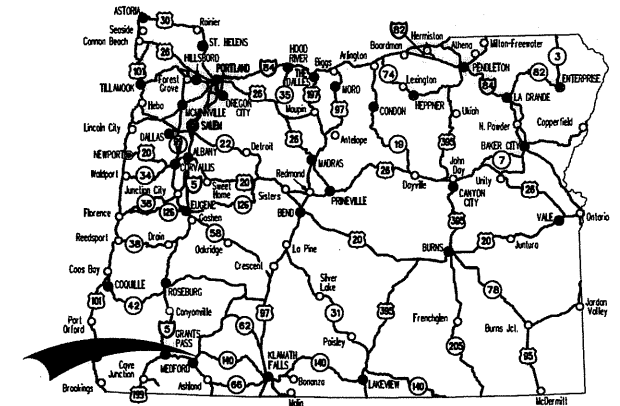
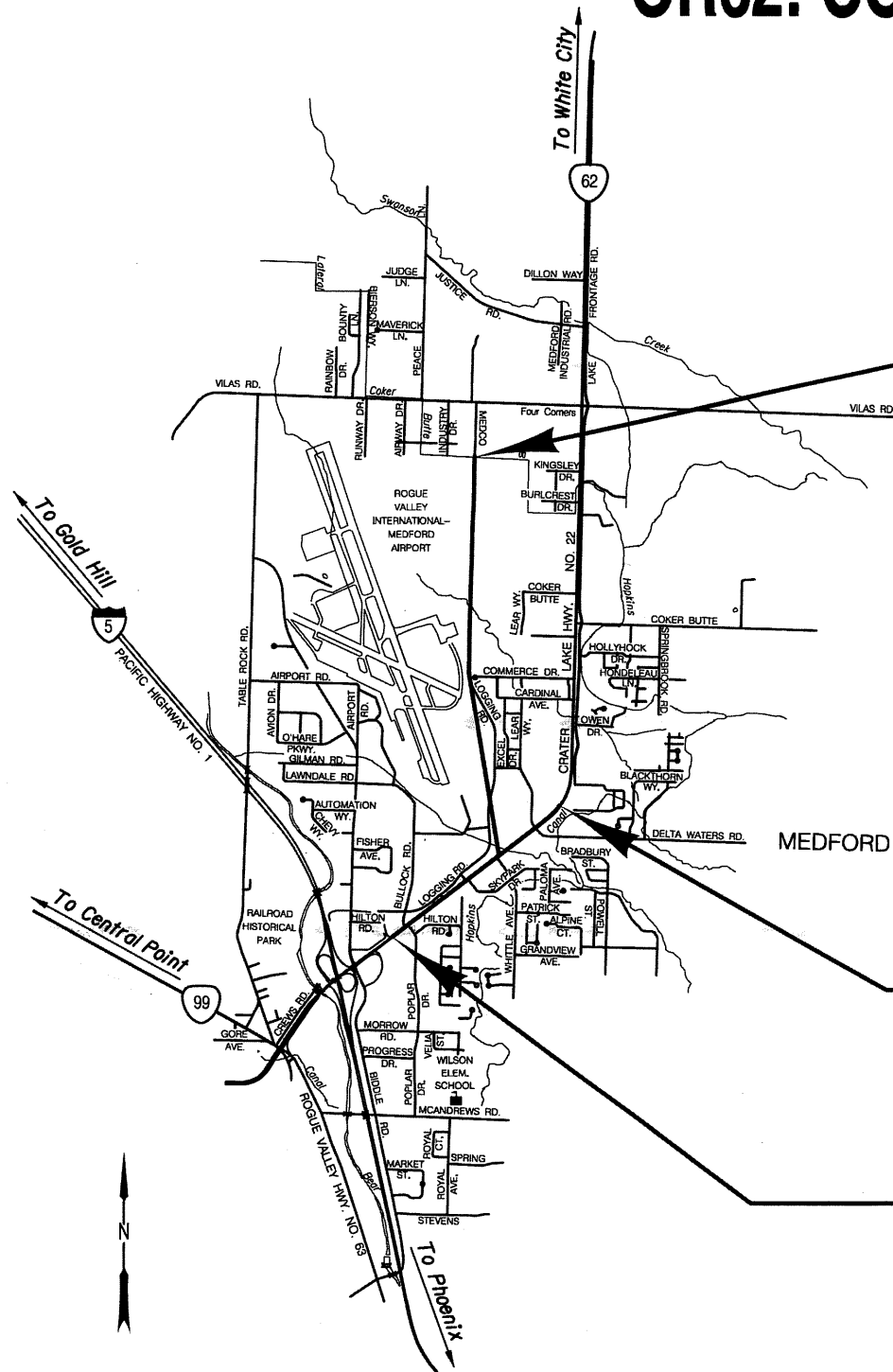
STP-S022(040)

STA. "EX" 2297+00 (M.P. 1.73)

END OF PROJECT

STP-S022(040)

STA. "NBB" 155+58 (M.P. 0.70)



Overall Length Of Project - 2.70 Miles

ATTENTION:
Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center. (Notes The Telephone Number For The Oregon Utility Center Is (503) 232-1987.)



PLANS PREPARED FOR
OREGON DEPARTMENT OF TRANSPORTATION

CONSULTING ENGINEERS
CORPORATE OFFICE: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6088
REGIONAL OFFICES: LAKE OSWEGO; SALEM; MEDFORD, OREGON; VANCOUVER, WASHINGTON

OREGON TRANSPORTATION COMMISSION

Tammy Baney	CHAIR
Sean O'Hollaren	COMMISSIONER
Alando Simpson	COMMISSIONER
Susan Morgan	COMMISSIONER
David Lohman	COMMISSIONER
Matthew L. Garrett	DIRECTOR OF TRANSPORTATION

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated authority.

Approving Authority: *Jaime Jordan*
Signature & date

JAIME JORDAN - PROJECT MANAGER
Print name and title

Matthew L. Garrett
Concurrence by ODOT Chief Engineer

OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)
CRATER LAKE HIGHWAY
JACKSON COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	STATE	1

Sec. 6, 7, 18, T. 37 S., R. 1 W., W.M.

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OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)		
CRATER LAKE HIGHWAY JACKSON COUNTY		
FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION		1A

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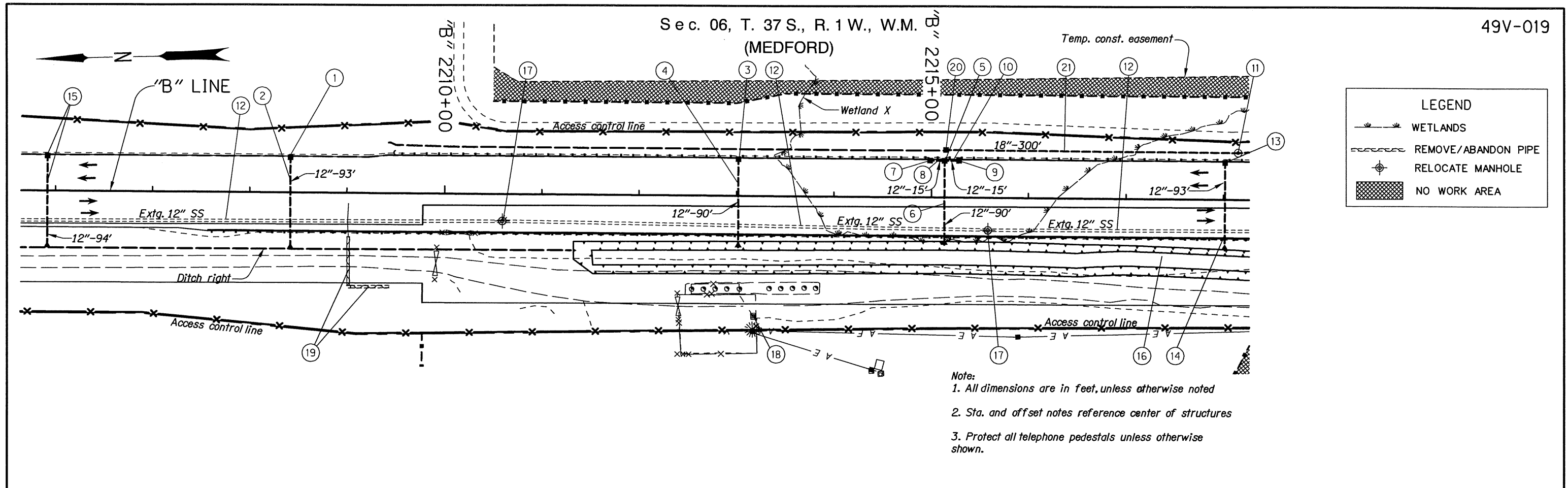
OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)		
CRATER LAKE HIGHWAY		
JACKSON COUNTY		
FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION		1A-2

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RD100	- Mailbox Support	RD815	- Chain Link Fence	TM488	- Terminal Cabinet Detail
RD101	- Mailbox Installation	RD820	- Fence Gates	TM490	- Crosswalk Closure Detail
RD140	- Roadway Cross Slopes Superelevated Sections			TM498	- Interconnect Wiring Details
RD300	- Trench Backfill, Bedding, Pipe Zone And Mult. Installations	RD1000	- Construction Entrances	TM500, TM501, TM502, TM503	- Pavement Marking Standard Details
RD302	- Street Cut	RD1005	- Check Dams Types 1, 3 & 4	TM515	- Raised Pavement Markers
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RD312	- Subsurface Drain	RD1015	- Inlet Protection Type 4	TM530	- Intersection Pavement Markings
RD316	- Sloped Ends For Metal Pipe	RD1032	- Sediment Barrier Type 8	TM531	- Turn Arrow Marking Details
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RD348	- Manhole With Inlet			TM625, TM626, TM627	
RD356	- Manhole Cover & Frames	BR420	- 26" Precast Prestressed Slab	TM629, TM630	- Slip Base & Fixed Base Luminaire Supports
RD360	- Manhole Frame Adjustment	BR445	- Precast Prestressed Boxes & Slabs	TM635	- Breakaway Sign & Luminaire Supports
RD362	- Sanitary Cleanout			TM652	- Traffic Signal Supports (Steel Details)
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RD364	- Concrete Inlets Type G-1, G-2, G-2M & G-2MA	BR760	- Moment Slab On MSE Wall	TM660	- Traffic Strain Pole Supports General Details And Design Criteria
RD365	- Frames & Grates For Concrete Inlets			TM661	- Traffic Strain Pole Supports Notes, Reactions and Details
RD366	- Concrete Inlets Type CG-1, CG-2 & Curb Inlet Channel	BR800	- Box Culvert Wingwalls Details	TM670	- Wood Post Sign Supports
RD370	- Ditch Inlet Type D	BR805	- Box Culvert Extensions Details	TM671	- 3 Second Gust Wind Speed Map
RD372	- Ditch Inlet Top, Option 1 Type CG-3	BR830	- Cast-In-Place Conc. Box Culverts	TM675	- Extruded Aluminum Panels
RD376	- Miscellaneous Drainage Structures	BR840, BR841	- Standard Double Box Culvert Details	TM676	- Sign Attachments
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RD480	- 31" Guardrail and Metal Median Barrier	TM212	- Signing Details Oregon Route Signs		
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		TM223	- Conventional Roads Directional Sign Layout Name Streets	TM820	- Temporary Barricades
		TM224	- Signing Details Directional Sign Layout	TM821	- Temporary Sign Supports
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RD706	- Traffic Separators And Transitions	TM460	- Vehicle Signal Details		
RD707	- Island Nose Treatments	TM462	- Adjustable Signal Head Mounting Details		
RD710	- Accessible Route Islands	TM463	- Spanwire Mounting Details		
RD715	- Approaches And Non-Sidewalk Driveways	TM465	- Overhead Sign, Fire Preemption & Photoelectronic Details		
RD720	- Sidewalks	TM467	- Ped. Signal And Ped. Push Button Details		
RD735	- Curb Line Sidewalk Driveways or Alleys (Options F and G) ODOT Highways	TM470	- Color Code Charts		
		TM472	- Traffic Signal Junction Boxes		
RD750	- Curb Line Sidewalk Driveways - Local Jurisdictions	TM475	- Loop Details		
RD755	- Sidewalk Ramp Details	TM480	- Loop Entrance Details		
RD757	- Sidewalk Ramp Replacement Options	TM482	- Controller Cabinet And Foundation Details		
RD759	- Truncated Dome Detectable Warning Surface	TM485	- Service Cabinets And Service Cabinet Wiring Details		
RD770, RD771	- Pedestrian Handrail				
RD810	- Barbed And Woven Wire Fences				

Standard Drawings located on the web at:
http://www.oregon.gov/ODOT/HWY/ENGSERVICES/standard_drawings_home.shtml

No.	DATE	REVISIONS	BY
1	1-27-16	Added std. drawing nos.	S.A.P.
2	2-16-17	Added std. drawing no.	S.A.P.

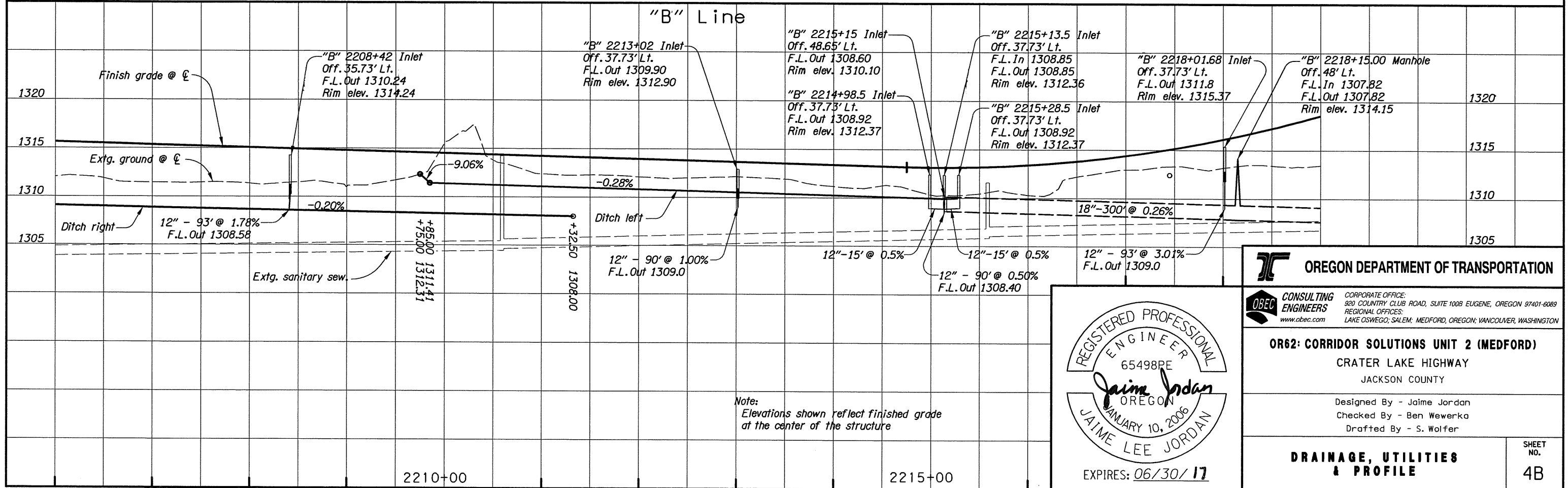
OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)		
CRATER LAKE HIGHWAY JACKSON COUNTY		
FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION		1A-3



LEGEND

- WETLANDS
- REMOVE/ABANDON PIPE
- RELOCATE MANHOLE
- NO WORK AREA

- Note:**
1. All dimensions are in feet, unless otherwise noted
 2. Sta. and offset notes reference center of structures
 3. Protect all telephone pedestals unless otherwise shown.



Note:
Elevations shown reflect finished grade at the center of the structure

REGISTERED PROFESSIONAL ENGINEER
65498PE
Jaime Jordan
OREGON
JANUARY 10, 2006
JAIME LEE JORDAN
EXPIRES: 06/30/17

OREGON DEPARTMENT OF TRANSPORTATION

CONSULTING ENGINEERS
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REGIONAL OFFICES:
LAKE OSWEGO; SALEM; MEDFORD, OREGON; VANCOUVER, WASHINGTON

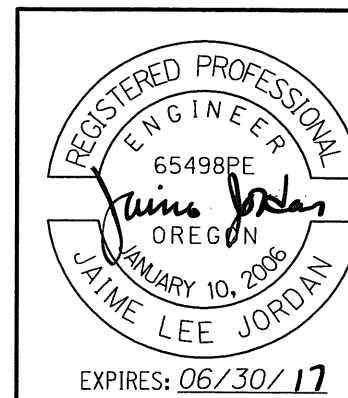
OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)
CRATER LAKE HIGHWAY
JACKSON COUNTY

Designed By - Jaime Jordan
Checked By - Ben Wewerka
Drafted By - S. Wolfer

DRAINAGE, UTILITIES & PROFILE

SHEET NO. 4B

- ① Sta. "B" 2208+41.68, 35.73' Lt.
Const. Type "G-2" inlet
- ② Sta. "B" 2208+41.68, 35.73' Lt. to
Sta. "B" 2208+41.68, 57.67' Rt.
Inst. 12" storm sew. pipe - 93'
5' depth
Const. sloped end
Const. paved end slope - 26 sq. ft.
Const. loose riprap (Class 50) - 1.5 cu.yd.
Riprap geotextile (Type 1) - 3 sq. yd.
- ③ Sta. "B" 2213+01.68, 37.73' Lt.
Const. Type "G-2" inlet
- ④ Sta. "B" 2213+01.68, 37.73' Lt. to
Sta. "B" 2213+01.68, 52.54' Rt.
Inst. 12" storm sew. pipe - 90'
5' depth
Const. sloped end
Const. paved end slope - 26 sq. ft.
Const. loose riprap (Class 50) - 1.5 cu.yd.
Riprap geotextile (Type 1) - 3 sq. yd.
- ⑤ Sta. "B" 2215+13.5, 37.73' Lt.
Const. Type "G-2" inlet
- ⑥ Sta. "B" 2215+13.5, 37.73' Lt. to
Sta. "B" 2215+13.5, 52.67' Rt.
Inst. 12" storm sew. pipe - 90'
5' depth
Const. sloped end
Const. paved end slope - 26 sq. ft.
Const. loose riprap (Class 50) - 1.5 cu.yd.
Riprap geotextile (Type 1) - 3 sq. yd.
- ⑦ Sta. "B" 2214+98.5, 37.73' Lt.
Const. Type "G-2" inlet
- ⑧ Sta. "B" 2214+98.5, 37.73' Lt. to
Sta. "B" 2215+13.5, 37.73' Lt.
Inst. 12" storm sew. pipe - 15'
5' depth
- ⑨ Sta. "B" 2215+28.5, 37.73' Lt.
Const. Type "G-2" inlet
- ⑩ Sta. "B" 2215+28.5, 37.73' Lt. to
Sta. "B" 2215+13.5, 37.73' Lt.
Inst. 12" storm sew. pipe - 15'
5' depth
- ⑪ Sta. "B" 2218+15.00, 48' Lt.
Const. 48" storm sew. manhole
(See dwg. nos. RD335, RD336, RD344,
RD345 & RD356)
- ⑫ Abandon and relocate sanitary sewer
(By others)
- ⑬ Sta. "B" 2218+01.68, 37.73' Lt.
Const. type "G-2" inlet
- ⑭ Sta. "B" 2218+01.68, 37.73' Lt. to
Sta. "B" 2218+01.68, 54.97' Rt.
Inst. 12" storm sew. pipe - 93'
5' depth
Const. sloped end
Const. paved end slope - 26 sq. ft.
Const. loose riprap (Class 50) - 1.5 cu.yd.
Riprap geotextile (Type 1) - 3 sq. yd.
- ⑮ See sht. 3B, notes 10 & 11
- ⑯ Const. north bioretention pond (D00834)
(For details, see sht. GE-2)
- ⑰ Abandon manhole
(By others)
- ⑱ Remove utility pole
- ⑲ Remove pipe - 90'
- ⑳ Sta. "B" 2215+15.00, 48.65' Lt.
Const. type "D" inlet
(See dwg. no. RD370)
- ㉑ Sta. "B" 2215+15. 48.65' Lt. to
Sta. "B" 2218+15. 48' Lt.
Inst. 18" storm sew. pipe - 300'
10' depth



OREGON DEPARTMENT OF TRANSPORTATION

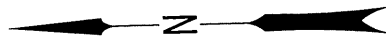
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OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)
CRATER LAKE HIGHWAY
JACKSON COUNTY

Designed By - Jaime Jordan
Checked By - Ben Wewerka
Drafted By - S. Wolfer

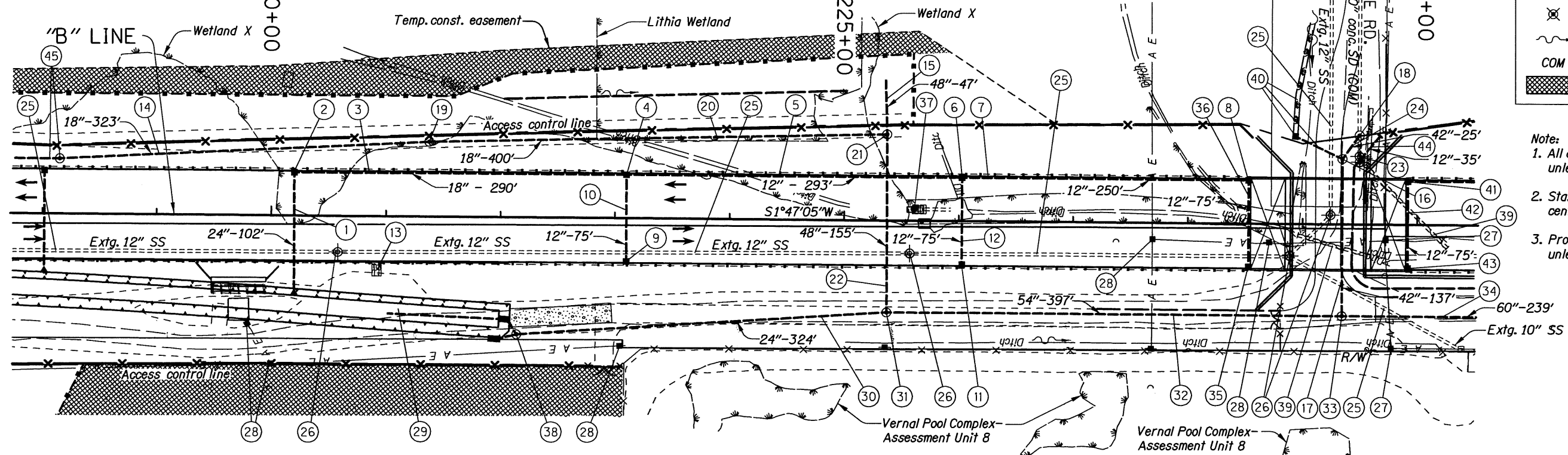
DRAINAGE NOTES SHEET NO. 4C

Sec. 06, T. 37S, R. 1W, W.M. (MEDFORD)

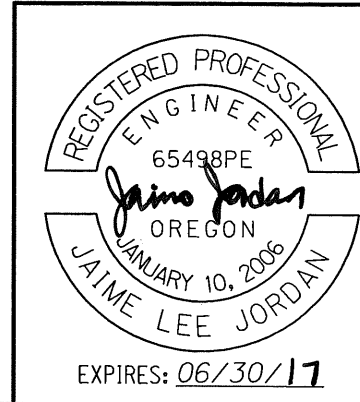


LEGEND	
	WETLANDS
	REMOVE PIPE
	RELOCATE MANHOLE
	DIRECTION OF FLOW
	CITY OF MEDFORD
	NO WORK AREA

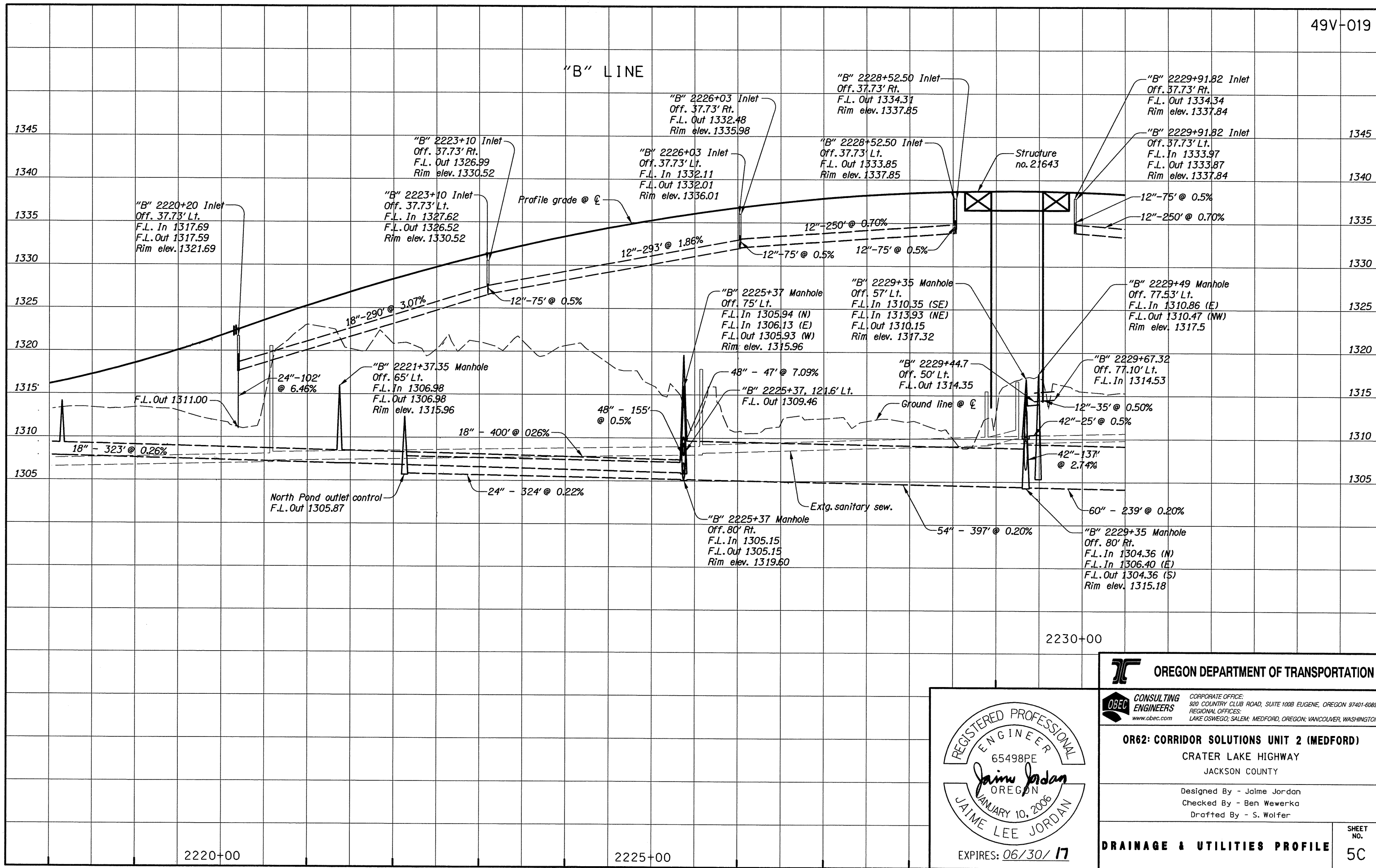
- Note:
1. All dimensions are in feet, unless otherwise noted
 2. Sta. and offset notes reference center of structures
 3. Protect all telephone pedestals unless otherwise shown.



- | | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Sta. "B" 2220+20.00, 37.73' Lt. to Sta. "B" 2220+20.00, 63.70' Rt. Inst. 24" storm sew. pipe - 102' 10' depth Const. sloped end Const. paved end slope - 30 Sq. Ft. Const. riprap (Class 100) - 3 cu. yds. Riprap geotextile (Type 1) - 6 sq. yds.</p> <p>2 Sta. "B" 2220+20.00, 37.73' Lt. Const. type "G-2" inlet</p> <p>3 Sta. "B" 2220+20.00, 37.73' Lt. to Sta. "B" 2223+10.00, 37.73' Lt. Inst. 18" storm sew. pipe - 290' 5' depth</p> <p>4 Sta. "B" 2223+10.00, 37.73' Lt. Const. type "G-2" inlet</p> <p>5 Sta. "B" 2223+10.00, 37.73' Lt. to Sta. "B" 2226+03.00, 37.73' Lt. Inst. 12" storm sew. pipe - 293' 5' depth</p> <p>6 Sta. "B" 2226+03.00, 37.73' Lt. Const. type "G-2" inlet</p> <p>7 Sta. "B" 2226+03.00, 37.73' Lt. to Sta. "B" 2228+52.50, 37.73' Lt. Inst. 12" storm sew. pipe - 250' 5' depth</p> <p>8 Sta. "B" 2228+52.50, 37.73' Lt. Const. type "G-2" inlet</p> <p>9 Sta. "B" 2223+10, 37.73' Rt. Const. type "G-2" inlet</p> | <p>10 Sta. "B" 2223+10, 37.73' Lt. to Sta. "B" 2223+10, 37.73' Rt. Inst. 12" storm sew. pipe - 75' 5' depth</p> <p>11 Sta. "B" 2226+03, 37.73' Rt. Const. type "G-2" inlet</p> <p>12 Sta. "B" 2226+03, 37.73' Lt. to Sta. "B" 2226+03, 37.73' Rt. Inst. 12" storm sew. pipe - 75' 5' depth</p> <p>13 Sta. "B" 2220+90, Rt. Inst. slope protection Class 50 riprap - 5 cu. yds. Riprap geotextile (Type 2) - 15 yds. (For details, see sht. GE-8)</p> <p>14 Sta. "B" 2218+15, 48' Lt. to Sta. "B" 2221+37.35, 65' Lt. Inst. 18" storm sew. pipe - 323' 10' depth</p> <p>15 Sta. "B" 2225+37.35, 121.6' Lt. to Sta. "B" 2225+37.35, 75' Lt. Inst. 48" storm sew. pipe - 47' 10' depth</p> <p>16 Sta. "B" 2229+34.62, 57' Lt. Const. 72" storm sew. manhole (See dwg. no. RD346)</p> <p>17 Sta. "B" 2229+34.62, 57' Lt. to Sta. "B" 2229+34.62, 80.00' Rt. Inst. 42" storm sew. pipe - 137' 10' depth</p> | <p>18 Sta. "B" 2229+49.47, 77.53' Const. flow control manhole, 84" (For details, see sht. GE-7)</p> <p>19 Sta. "B" 2221+37.35, 65' Lt. Const. 48" storm sew. manhole</p> <p>20 Sta. "B" 2221+37.35, 65' Lt. to Sta. "B" 2225+37.35, 75' Lt. Inst. 18" storm sew. pipe - 400' 10' depth</p> <p>21 Sta. "B" 2225+37.35, 75' Lt. Const. 84" storm sew. manhole</p> <p>22 Sta. "B" 2225+37.35, 75' Lt. to Sta. "B" 2225+37.35, 80' Lt. Inst. 48" storm sew. pipe 155' 10' depth</p> <p>23 Sta. "B" 2229+49.46, 56.81' Lt. Remove manhole</p> <p>24 Sta. "B" 2229+49.47, 77.53' Lt. to Sta. "B" 2229+34.62, 57' Lt. Inst. 42" storm sew. pipe - 25' 10' depth Connect to extg. storm sew. manhole</p> <p>25 Abandon and relocate sanitary sewer (By others)</p> | <p>26 Abandon manhole (By others)</p> <p>27 Remove utility pole (By others)</p> <p>28 Remove utility pole - 5</p> <p>29 See sht. 4B, note 16</p> <p>30 Sta. "B" 2222+14.18, 102.2' Rt. to Sta. "B" 2225+37.35, 80' Rt. Inst. 24" storm sew. pipe - 324' 20' depth</p> <p>31 Sta. "B" 2225+37.35, 80' Rt. Const. 96" storm sew. manhole</p> <p>32 Sta. "B" 2225+37, 80' Rt. to Sta. "B" 2229+34.62, 80' Rt. Inst. 54" storm sew. pipe - 397' 20' depth</p> <p>33 Sta. "B" 2229+34.62, 80' Rt. Const. 96" storm sew. manhole</p> <p>34 Sta. "B" 2229+34.62, 80' Rt. to Sta. "B" 2231+73.32, 80' Rt. Inst. 60" storm sew. pipe - 239' 20' depth</p> <p>35 Sta. "B" 2228+52.50, 37.73' Rt. Const. type "G-2" inlet</p> | <p>36 Sta. "B" 2228+52.50, 37.73' Lt. to Sta. "B" 2228+52.50, 37.73' Rt. Inst. 12" storm sew. pipe - 75' 5' depth</p> <p>37 Outlet control system to be removed</p> <p>38 North pond outlet control (For details, see sht. GE-2)</p> <p>39 Remove pipe - 169'</p> <p>40 Const. water quality swale (CBS) (For details, see sht. GE-5)</p> <p>41 Sta. "B" 2229+91.82, 37.73' Lt. Const. type "G-2" inlet</p> | <p>42 Sta. "B" 2229+91.82, 37.73' Rt. to Sta. "B" 2229+91.82, 37.73' Lt. Inst. 12" storm sew. pipe - 75' 5' depth</p> <p>43 Sta. "B" 2229+91.82, 37.73' Rt. Const. type "G-2" inlet</p> <p>44 Sta. "B" 2229+67.32, 77.10' Lt. to Sta. "B" 2229+44.7, 50' Lt. Inst. 12" culv. pipe - 35' 5' depth Const. sloped ends - 2</p> <p>45 See Sht. 4B, note 11 and note 21</p> |
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OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)	
CRATER LAKE HIGHWAY JACKSON COUNTY	
Designed By - Jaime Jordan Checked By - Ben Wewerka Drafted By - S. Wolfer	
DRAINAGE & UTILITIES	SHEET NO. 5B

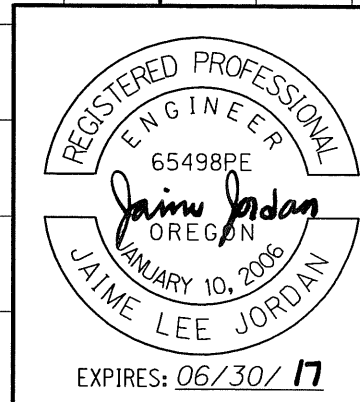


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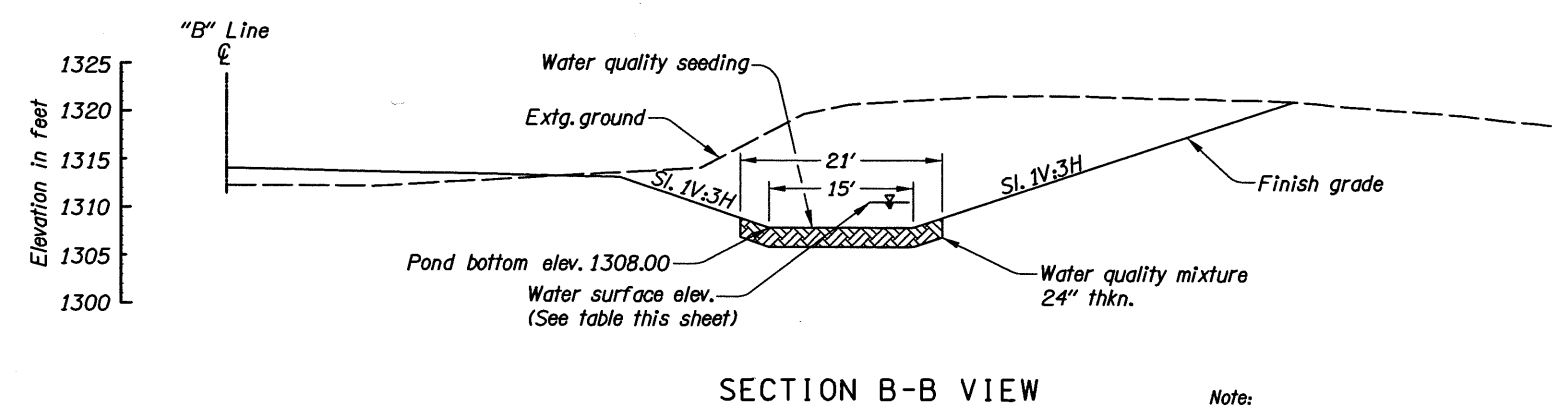
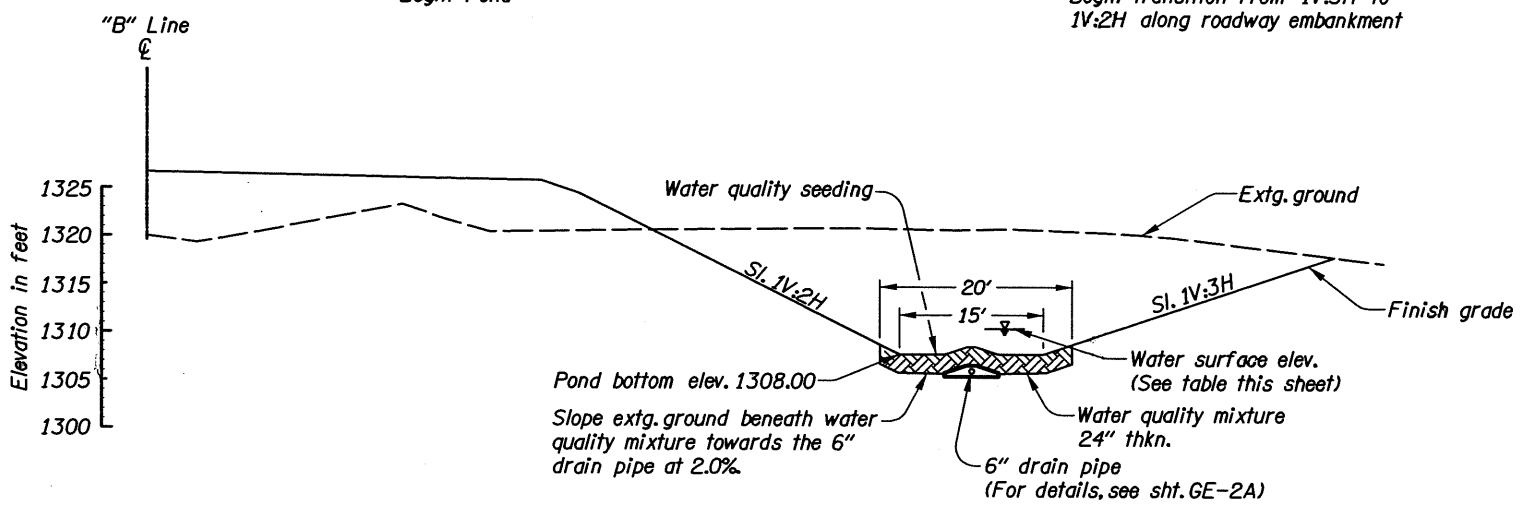
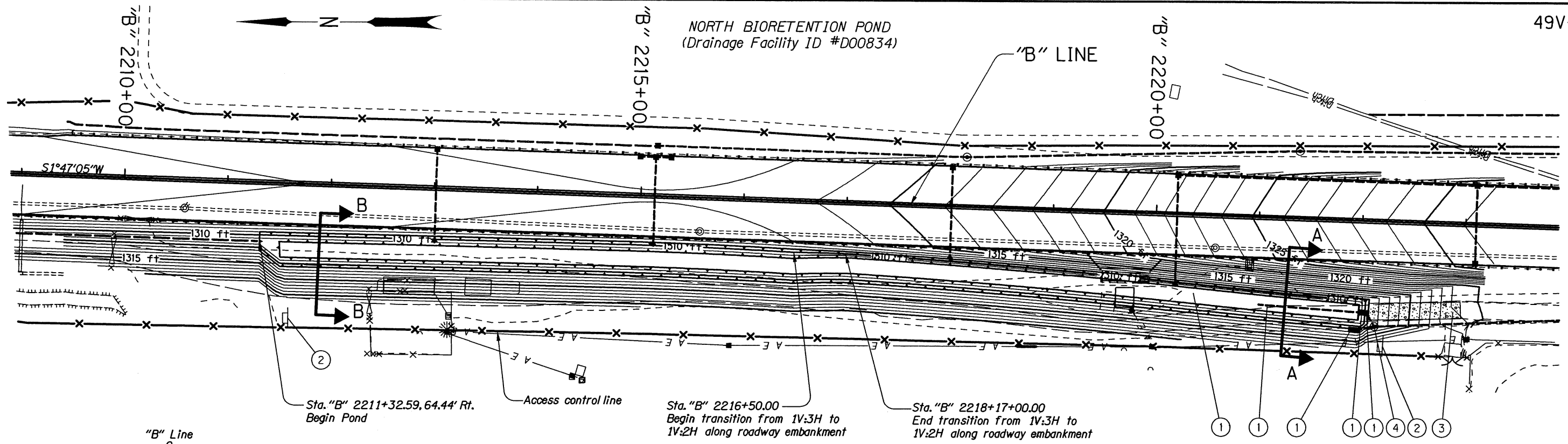
OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)
 CRATER LAKE HIGHWAY
 JACKSON COUNTY

Designed By - Jaime Jordan
 Checked By - Ben Wewerka
 Drafted By - S. Wolfer



DRAINAGE & UTILITIES PROFILE
 SHEET NO. 5C

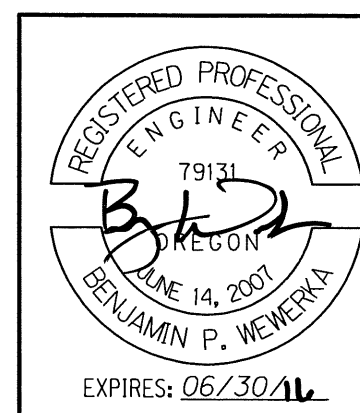
NORTH BIORETENTION POND
(Drainage Facility ID #D00834)



- ① Const. bioretention pond, DFI# D00834 (For details, see sht. GE-2A & GE-2B)
- ② Inst. facility field markers, type S2 - 2 (See drg. no. RD399)
- ③ Const. maintenance access road
Agg. base - 100 tons
Subgrade geotextile - 160 sq. yd.
- ④ Sta. "B" 2222+14.18, 102.17' Rt.
Const. manhole, 72" dia.

POND STORAGE DATA		
STORM EVENT	WATER SURFACE ELEVATION	STORAGE VOLUME
Water Quality	1308.91'	0.39 Ac-Ft
2 Year	1310.22'	1.15 Ac-Ft
10 Year	1310.43'	1.30 Ac-Ft
50 Year	1310.66'	1.47 Ac-Ft

Note:
 1. Elevations shown are based on NAVD 1988 datum.
 2. All dimensions shown are in feet unless otherwise noted.
 3. Contour intervals shown at 1 ft. increments.
 4. Apply water quality seed mix to the entire pond surface area.



OREGON DEPARTMENT OF TRANSPORTATION

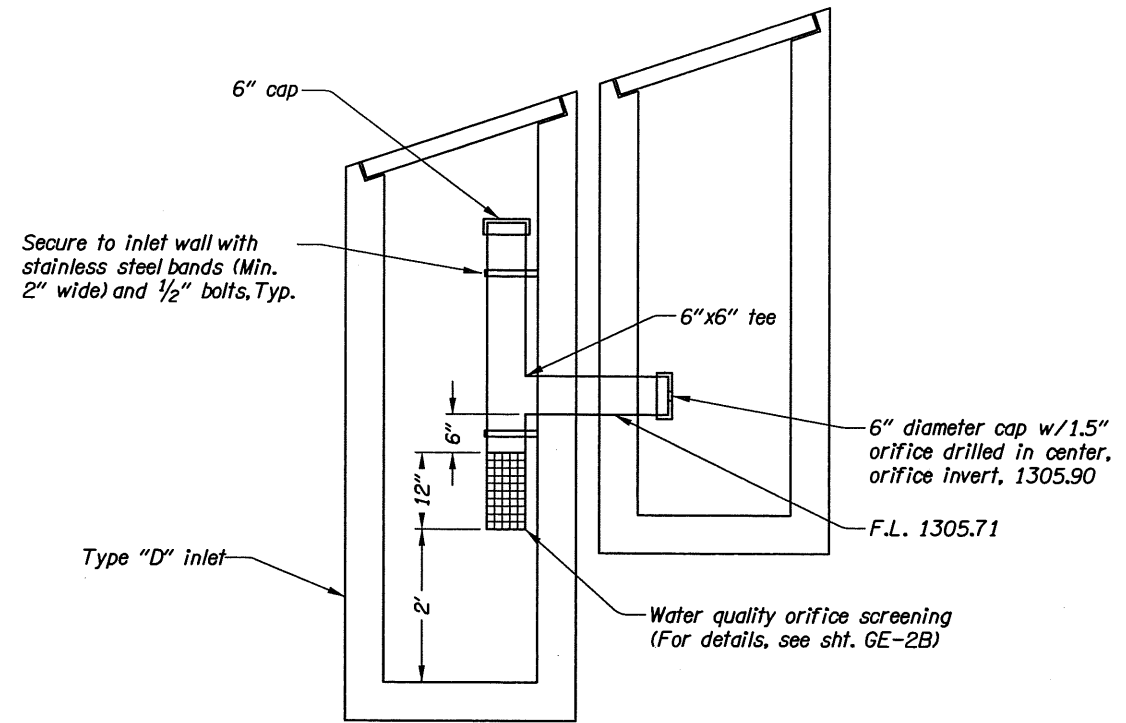
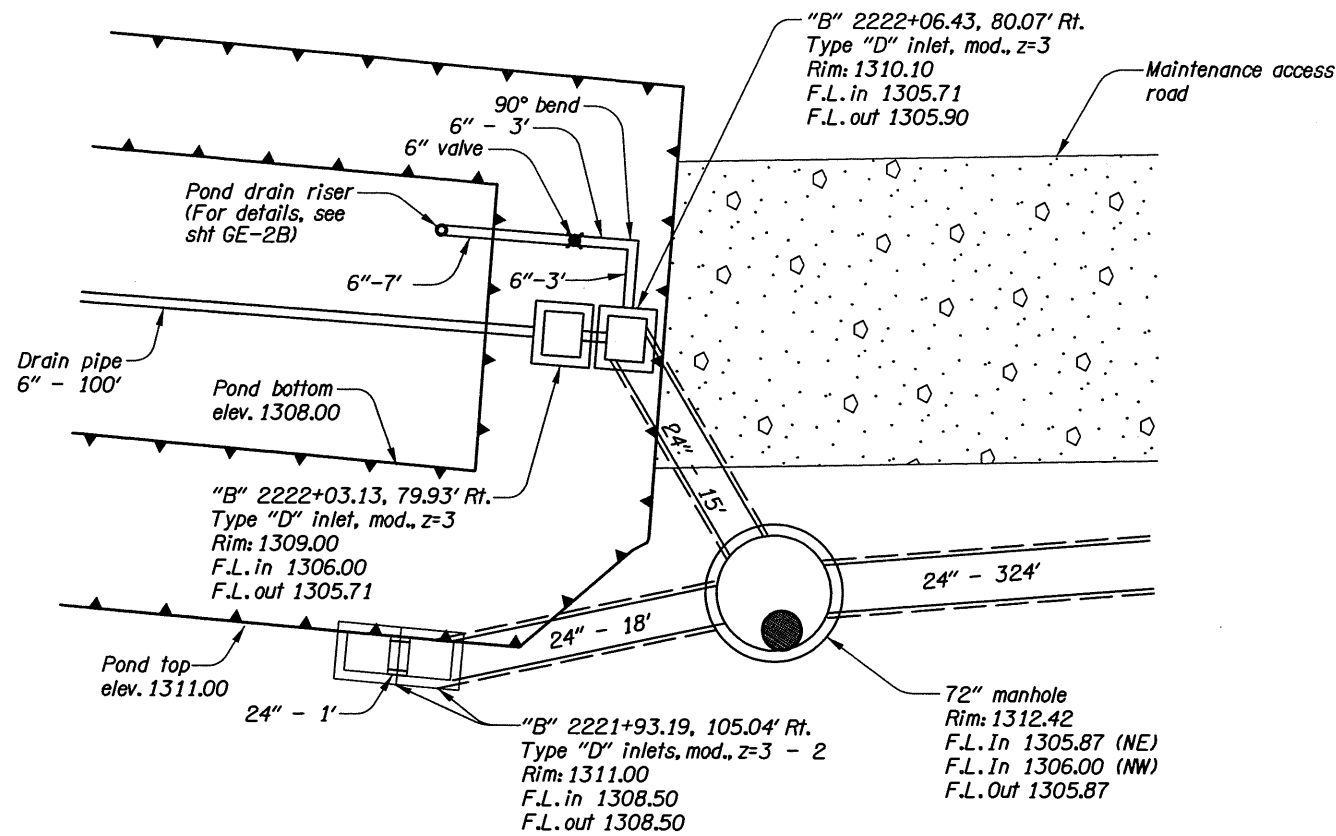
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OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)
 CRATER LAKE HIGHWAY
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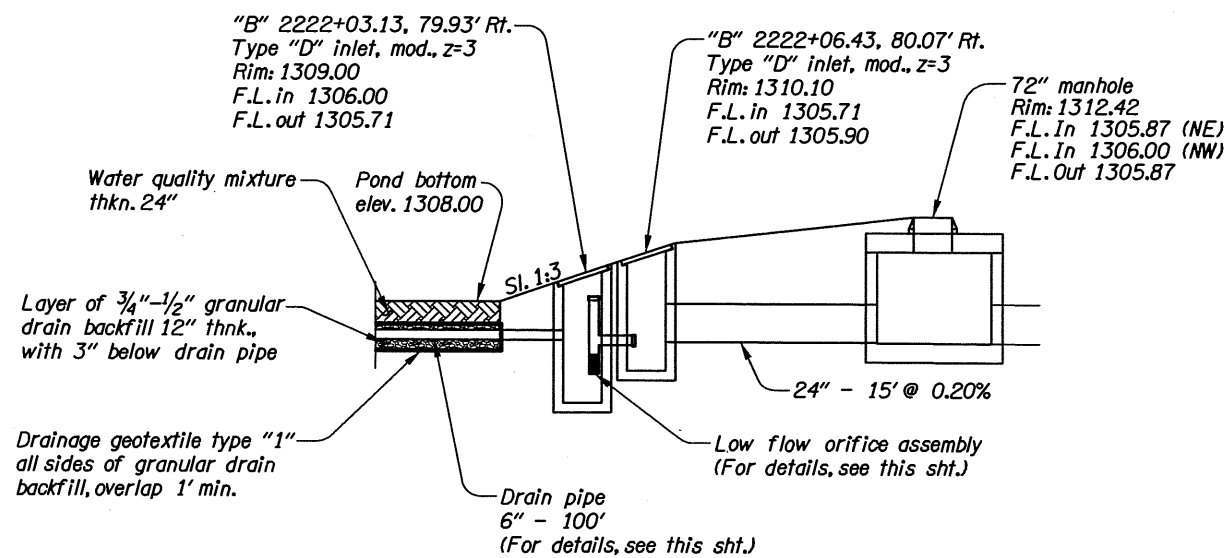
Designed By - Ben Wewerka
 Checked By - Amy Jones
 Drafted By - S. Wolfer

DRAINAGE PLAN

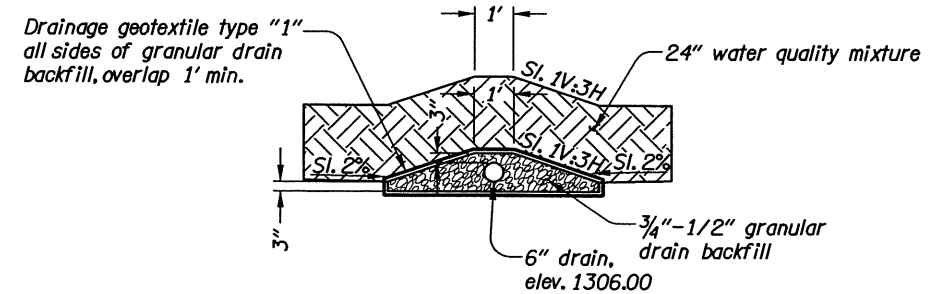
SHEET NO. **GE-2**



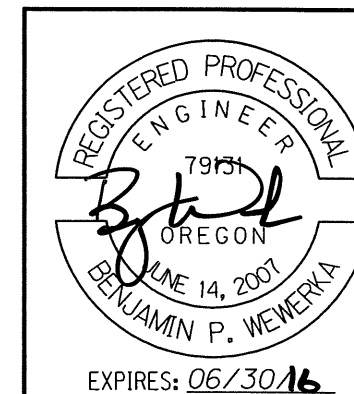
LOW FLOW ORIFICE ASSEMBLY



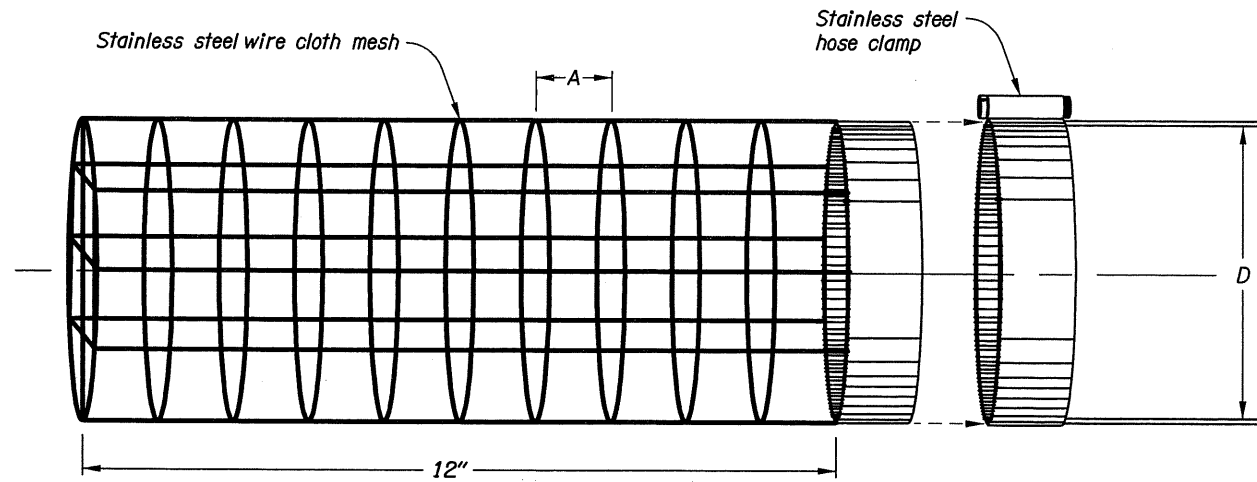
OUTFALL STRUCTURE DETAIL



DRAIN PIPE DETAIL

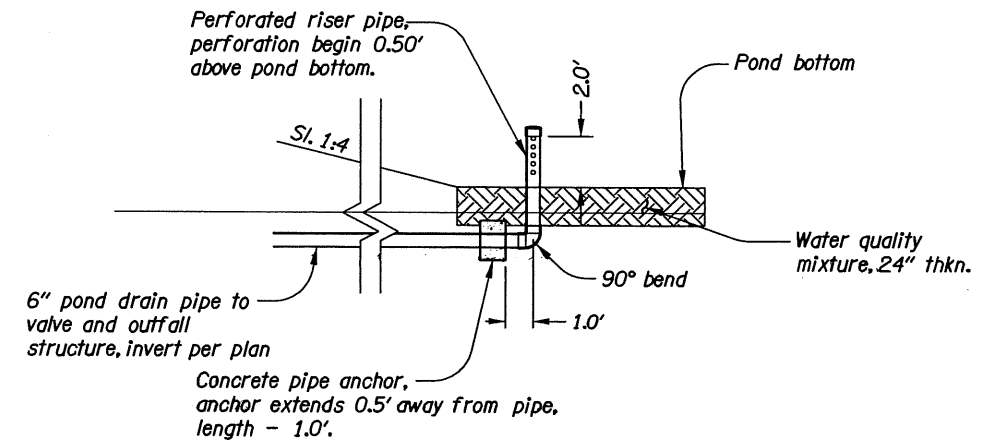


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<p>OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD) CRATER LAKE HIGHWAY JACKSON COUNTY</p>	
<p>Designed By - Ben Wewerka Checked By - Amy Jones Drafted By - S. Wolfer</p>	
<p>DETAILS</p>	<p>SHEET NO. GE-2A</p>

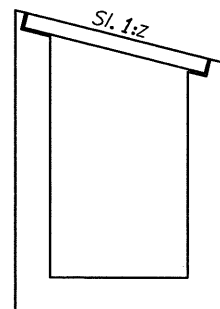


Facility	Riser Diameter (D)	Max. Opening Size (A)
D00834	6"	1"
D00835	6"	2"

WATER QUALITY ORIFICE SCREENING

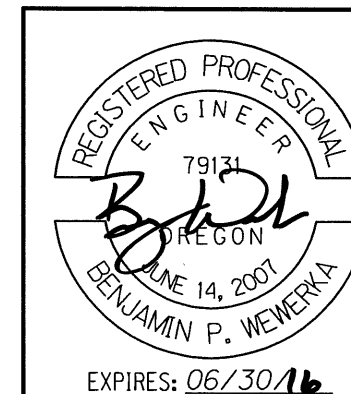


POND DRAIN DETAIL



Notes:
 For "z" see construction notes on plan views.
 For details not shown see RD370.

MODIFIED TYPE "D" INLET



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Designed By - Ben Wewerka
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DETAILS

SHEET NO.
GE-2B