OPERATION & MAINTENANCE MANUAL

DFI No.: D00646

Facility Type: Water Quality Porous

Pavement



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1. Identification

Drainage Facility ID (DFI): D00646

Facility Type: Water Quality Porous Pavement

Construction Drawings: 43V-178

Location: District: 08

Highway No.: 025

Mile Post: 2.07; 2.55 (beg./end); Right

Description: This facility is located along the north side of westbound US 199. It can be identified as the multi-use path adjacent to

the highway.

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: Jason Sheadel – Region 3 Tech Center

Facility construction: 2013 Contractor: N/A

4. Storm Drain System and Facility Overview

Water quality treatment will be accomplished through the underlying water quality amended soils. A perforated drainpipe, installed in a subsurface drain below the water quality amended soils, will convey the treated stormwater from the water quality amended soils. The entire cross-section will be lined in an impermeable geotextile fabric. A permeable geotextile fabric will be installed between the subbase and amended soils as well as between the water quality amended soils and the subsurface drain to promote flow of water through the system without transporting materials between layers.

	A.	This facility can be accessed from the north should of westbound US 199.
	В.	Heavy equipment access into facility:
		☑ Allowed (no limitations)☐ Allowed (with limitations)☐ Not allowed
	C.	Special Features:
		 ☑ Amended Soils ☐ Porous Pavers ☐ Liners ☑ Underdrains
5.		acility Haz Mat Spill Feature(s) here are no Haz Mat spill featured designed into this facility.
6.	Au sa ov sto	uxiliary Outlet (High Flow Bypass) uxiliary Outlets are provided if the primary outlet control structure can not fely pass the projected high flows. Broad-crested spillway weirs and er flow risers are the two most common auxiliary outlets used in formwater treatment facility design. The auxiliary outlet feature is either a art of the facility or an additional storm drain feature/structure.
	Th	ne auxiliary outlet feature for this facility is:
		Designed into facility
	\boxtimes	Other

There are no auxiliary outlets built into this facility. In the event that flows exceed design flows the water will flow down the multi-use path surface and/or overtop the mountable curb and flow into the area behind the path..

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 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: See following table

Maintenance Component	Defect or Problem	Condition When Maintenance is Needed	Results Expected When Maintenance is Performed
General			Remove sediment deposits with high- pressure vacuum sweeper.
		· ·	Remove with a leaf blower or high- pressure vacuum sweeper.
		Trash and debris have accumulated on the pavement.	Remove by hand or with a high- pressure vacuum sweeper.
	Oil accumulation	on top of pavement.	Immediately remove with a vacuum sweeper and follow up by a pressure wash or other appropriate rinse procedure.
Identification			Replace facility identification where needed.
Annual Minimum Maintenance			Remove potential void-clogging debris with a biannual or annual high- pressure vacuum sweeping.

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

8. Waste Material Handling

9. 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

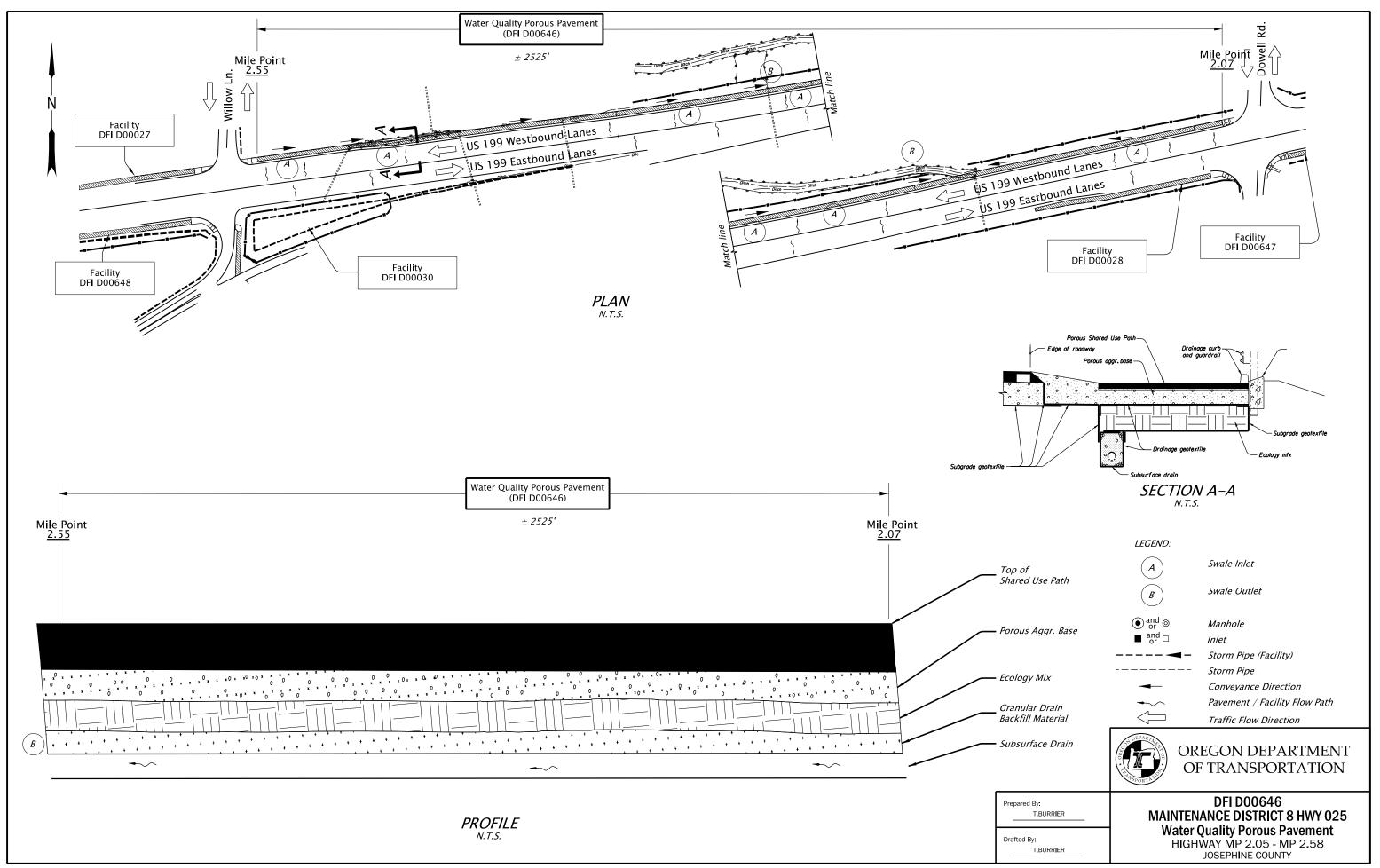
Contact any of the following for more detailed information about management of waste materials found on site:

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)



Appendix B

Content:

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

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INDEX OF SHEETS SHEET NO. DESCRIPTION Title Sheet Index Of Sheets Cont'd. & Std. Dwg. Nos.

STATE OF OREGON DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

SIGNALS AND STRUCTURE

US 199:DOWELL RD TO ROGUE 7/23/12 - C.O.G.P. **COMMUNITY COLLEGE**

REDWOOD HIGHWAY

JOSEPHINE COUNTY DECEMBER 2010

END OF PROJECT STP-0TIA-S025(044)

STA. "RW" 751+76.16 (M.P. 1.89) = STA. "RH" 41+71.13, OFFSET 30.07' Lt.

Overall Length Of Project - 1.36 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. (Note: The Telephone Number For The Oregon Utility Center Is (503) 232-1987.)

> LET'S ALL WORK TOGETHER TO MAKE THIS JOB SAFE

OREGON TRANSPORTATION COMMISSION

Gail Achterman VICE-CHAIR Michael Netson COMMISSIONER Mary F. Olson Alan Brown COMMISSIONER David Lohman COMMISSIONER

Motthew 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

Approving Authority:

Signature & date 9-14-10

MARK THOMPSON, TECH CENTER MGR Print name and title

The Tirelles Concurrence by ODOT Chief Engineer

US 199:DOWELL RD TO ROGUE COMMUNITY COLLEGE REDWOOD HIGHWAY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	STP-0TIA-S025(044)	1

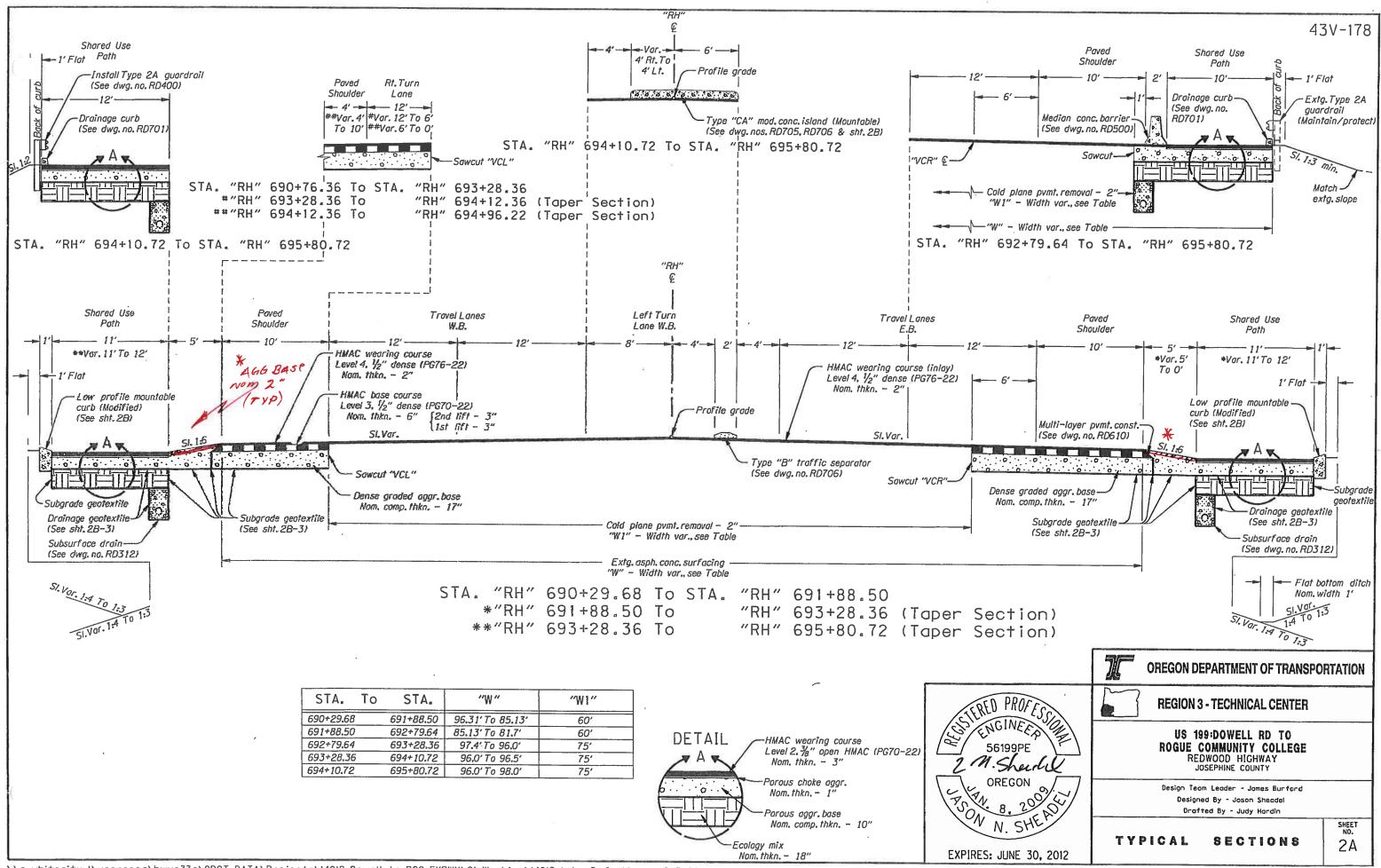
STA. "RW" 679+89.72 (M.P. 3.25) = STA. "RH" 679+89.72 (M.P. 3.25). OFFSET 0 REDWCOD FAHEY WY. MENDI WY. SHANE WY. NICK WY. To Grants Pass 0 Canal (LOCATED REDWOOD HIGHWAY (US 199) CANAL AVE. WOLF To Wilderville 0 0 BUSHNELL ROGUE COMMUNITY COLLEGE = T.36S, R.06W, Sect. 24, W.M. T.36S, R.06W, Sect. 25, W.M. T.36S, R.06W, Sect. 26, W.M. STA. "RH" 10+00.00 AH.
STA. "RH" 720+00.00 BK. 27 T.36S, R.06W, Sect. 27, W.M.

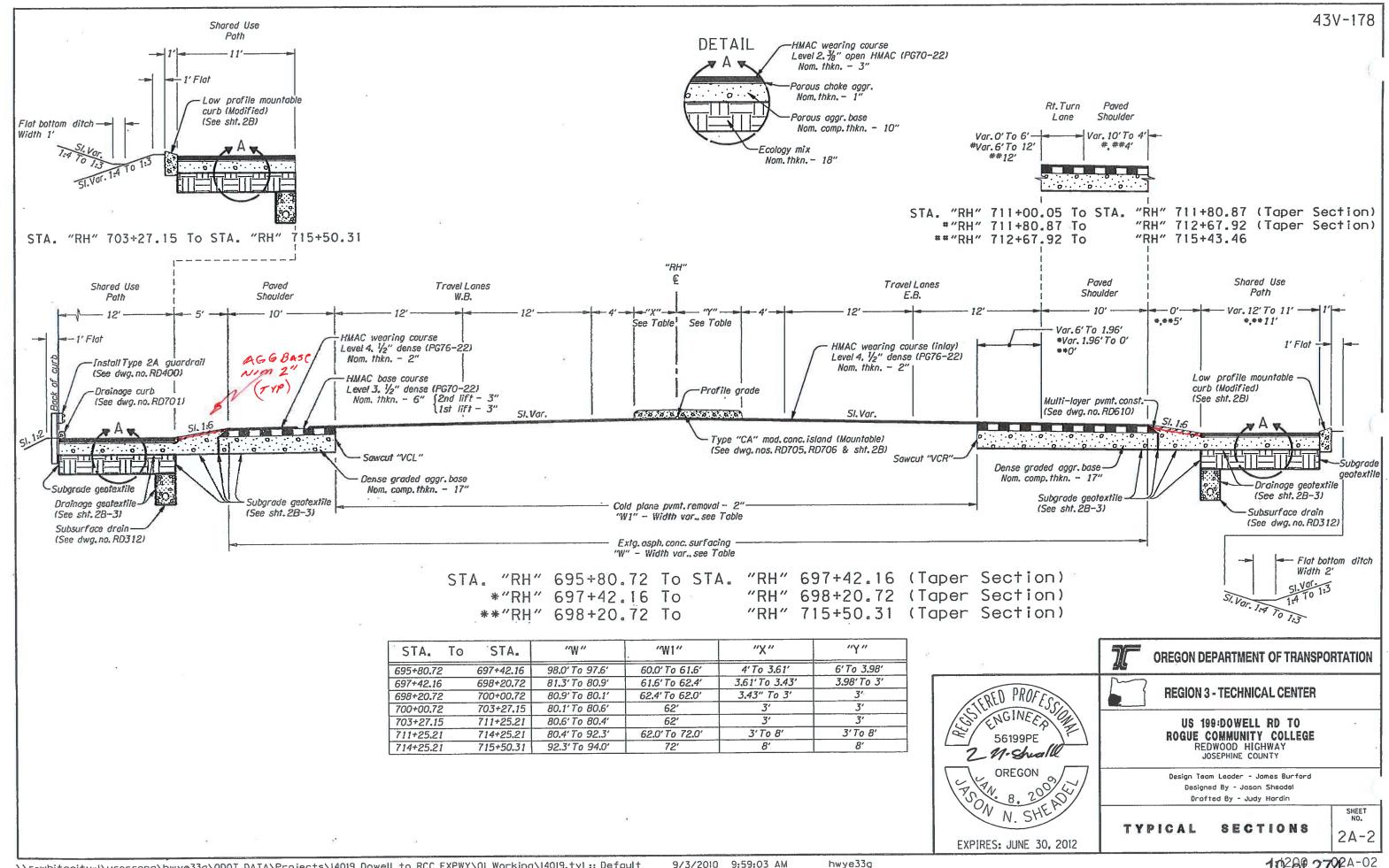
BEGINNING OF PROJECT

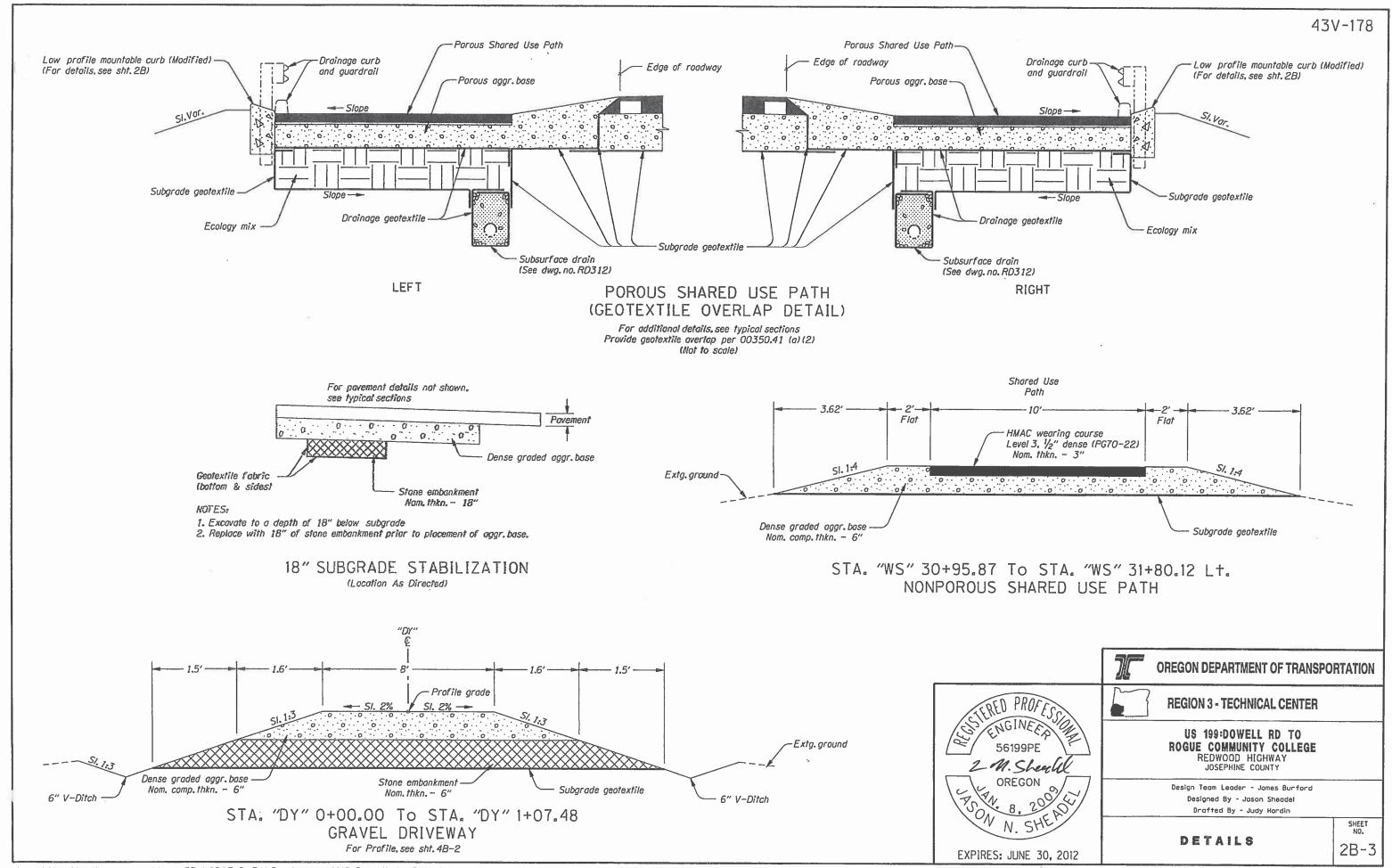
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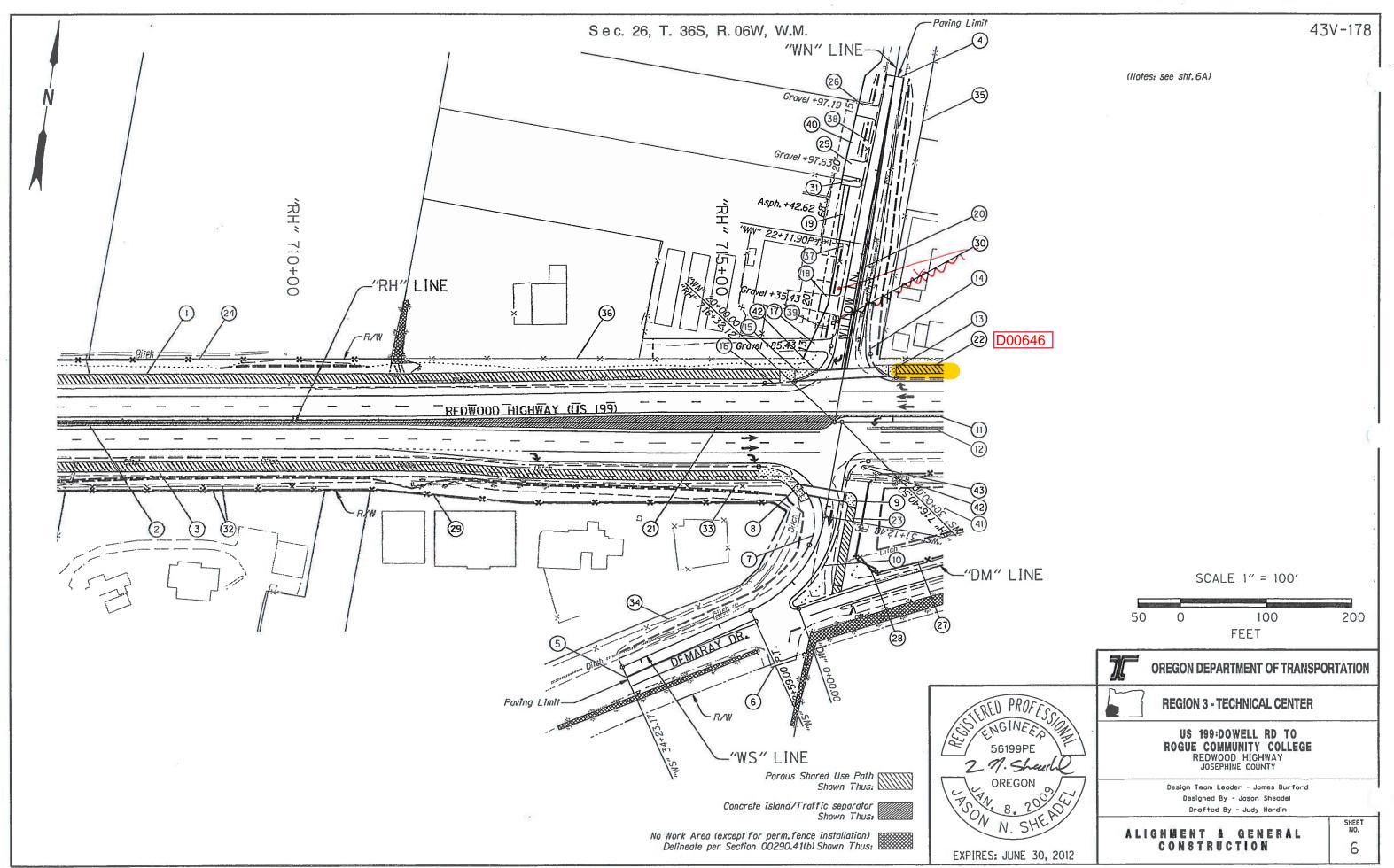
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	SHEETS CONTO				43V-17
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	DESCRIPTION			•	
3RW thru 7RW Right of Way	y	RD610	- Asphalt Pavement Details	TM500, TM501, TM502, TM503	- Pavement Marking Standard Details
2 thru 2A-16 Typical Secti	ions		·	TM515	- Raised Pavement Markers
2B thru 2B-6 Details				TM517	- Recessed Pavement Markers
2C Traffic Cont	trol Plan	RD700, RD701	- Curbs	TM521	- Durable Pavement Markings Method "B" Extruded
2D, 2D-1 Pipe Data S		RD705	- Islands	· · · · · · · · · · · · · · · · · · ·	& Method "F" Spray
	General Const., Profiles, Drainage	RD706	- Traffic Separators And Transitions	TM525	- Turn Arrow Marking Details
Time 100 Time 1100 Time 11	Concrete Contract From Co., Dramage	RD715	- Approaches And Non-Sidewalk Driveways	TM530	
		RD720	- Sidewalks		- Intersection Pavement Markings
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GA thru GA-8 Erosion Con		RD755	- Curb Line Sidewalk Driveways - Local Jurisdictions	TM570	- Traffic Delineators
	all Plan & Elevation		- Sidewalk Ramp Details	TM571	- Traffic Delineators Steel Post Details
GE thru GE-4 Sand Creek	Box Culvert Extension	RD757	- Sidewalk Ramp Placement	TM576	- Traffic Delineator Installation
GG Temporary W	Vater Management	RD759	- Truncated Dome Detectable Warning Surface Details		
GJ thru GJ-9 Detention Po	ond & Drainage Details		And Locations		
GN-1 thru Roadside Dev	velopment			TM602	- Triangular Base Breakaway Multi-Direction Slip Base
GN-6				TM629.TM630	- Slip Base & Fixed Base Luminaire Supports
		RD810	- Barbed and Woven Wire Fences	TM635	- Breakaway Sign & Luminaire Supports
DEDUANENT	DAVETET HADVING	RD815	- Chain Link Fence	TM650.TM651.TM652.TM653	- Traffic Signal Supports
	PAVEMENT MARKINGS			TM670	- Perm. Signing Wood Post Supports Sizing Charts
ST1 thru ST8 Striping Plan	<u>n</u>			TM671	- 3 Second Gust Wind Speed Isotach
		RD1000	- Construction Entrances		
PERMANENT	SIGNING	RD1005	- Check Dams	TM675	- Extruded Aluminum Panels
S-12160 thru Signing Plan		RD1010, RD1015	- Inlet Protection	TM676	- Sign Attachments
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		RD1040	- Sediment Fence	TM679	- Signal Mast Arm Street Name Sign Mounts
TRAFFIC SI	IGNALS	RD1055	- Matting	TM680	- Signal Pole Mounts
15673 thru Signal Plans		~		TM681, TM687, TM688	- Square Tube Sign Supports
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				TM820	- Temporary Barricades
RD100 RD	The Control of Control	BR800	- Box Culvert Wingwalls Details	TM821	- Temporary Sign Supports
Phint.	Allow ition	BR805	- Box Culvert Extensions Details	TM830	
342 314	manifoles	BR840, BR841			- Temporary Concrete Barrier And Rumble Strips
		DR04U, DR04 I	- Standard Double Box Culvert Details	TM831	- Temporary Impact Attenuators
RD230 362 SAN	they			TM841	- Intersection Work Zone Details
			*.1	TM842	
Cla	sarout	711000			- Signalized Intersection Details
	W Bedding Pigo 7000	TM200	~ Sign Installation Details	TM843	
RD300	dli, Bedding, Pipe Zone	TM201	- Miscellaneous Sign Placement Details		- Multi-Lane Signalized Intersection Details
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RD300 RD302 RD312 RD314 RD317 RD318 RD336, RD340, RD344, RD346 RD356 RD356 RD360, RD370, RD372 RD374 RD376 RD386, RD388, RD390 RD400, RD405, RD410, RD415, RD420, RD450, RD470	III, Bedding, Pipe Zone Jrface Drain Open Grade HMAC Drainage Details Culvert Embankment Protection Sloped Ends for Concrete Pipe Manholes Manhole With Inlet Manhole Cover & Frames Manhole Frame Adjustment Concrete Inlets Area Drainage Basin or Field Inlet Miscellaneous Drainage Structures Pipe Fill Height Tables Guardrail	TM201 TM204 TM206 TM211 TM221.TM222 TM223,TM224 TM230,TM231,TM233 TM450 TM457 TM458 TM460 TM462 TM465 TM467 TM470 TM472 TM482 TM485	 Miscellaneous Sign Placement Details Ftag Board Mounting Details Sign Bracing Detail Signing Details Milepost Marker Details Directional Sign Layout Mounting Details For Removable Legend Mast Arm Pole Details Vehicle, Ped. Signal & Push Button Mounting Details Pedestrian Ramp Placement Details Vehicle Signal Details Adjustable Signal Head Mounting Details Overhead Sign, Fire Preemption & Photoelectronic Details Ped. Signal And Ped. Push Button Details Color Code Charts Traffic Signal Junction Boxes Controller Cabinet And Foundation Details Service Cabinets And Service Cabinet Wiring Details 	TM843 TM850 TM851,TM852	- Multi-Lane Signalized Intersection Details - 2-Lane, 2 Way Roadways - Non-Freeway Multi-Lane Sections US 199:DOWELL RD TO
RD300 RD302 RD312 RD314 RD317 RD318 RD336, RD340, RD344, RD346 RD356 RD356 RD360, RD370, RD372 RD374 RD376 RD386, RD388, RD390 RD400, RD405, RD410, RD415, RD420, RD450, RD470	orface Drain Open Grade HMAC Drainage Details Culvert Embankment Protection Sloped Ends for Concrete Pipe Manholes Manhole With Inlet Manhole Cover & Frames Manhole Frame Adjustment Concrete Inlets Area Drainage Basin or Field Inlet Miscellaneous Drainage Structures Pipe Fill Height Tables Guardrail	TM201 TM204 TM206 TM211 TM221.TM222 TM223,TM224 TM230,TM231,TM233 TM450 TM457 TM458 TM460 TM462 TM465 TM467 TM470 TM472 TM482	 Miscellaneous Sign Placement Details Ftag Board Mounting Details Sign Bracing Detail Signing Details Milepost Marker Details Directional Sign Layout Mounting Details For Removable Legend Mast Arm Pole Details Vehicle, Ped. Signal & Push Button Mounting Details Pedestrian Ramp Placement Details Vehicle Signal Details Adjustable Signal Head Mounting Details Overhead Sign, Fire Preemption & Photoelectronic Details Ped. Signal And Ped. Push Button Details Color Code Charts Traffic Signal Junction Boxes Controller Cabinet And Foundation Details 	TM843 TM850 TM851,TM852	- Multi-Lane Signalized Intersection Details - 2-Lane, 2 Way Roadways - Non-Freeway Multi-Lane Sections US 199:DOWELL RD TO ROGUE COMMUNITY COLLEGE
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- (1) See sht. 5, note 5 Const. low profile mountable curb, modified
- (2) See sht. 4A, note 20 Const. type "CA" mountable conc. island, modified Const. mountable curb, modified
- (3) See sht. 4A, note 23 Const. low profile mountable curb, modified
- (4) Sto. "WN" 24+11.76 Const. asph. conc. pvmt, match
- (5) Sta. "WS" 34+23.17 Const. asph. conc. pvmt. match
- (6) Sta. "WS" 32+52.54; Lt. Const. asph. cong. street connection
- (7) Sta. "RH" 715+43.46, Rt. To Sta. "WS" 31+51.22, Rt. Const. standard conc. curb (E=7") - 131'
- (8) Sto. "RH" 715+43.46, Rt. To Sto. "WS" 30+97.64, Rt. Const. P.C. conc. sidewalk 768 sq. ft. Const. sidewalk ramp (Parallel Ramp)
- Sta. "WS" 30+86.07, Lt Const. P.C. conc. sidewalk 206 sq. ft. Const. sidewalk ramp (Perpendicular Sidewalk Ramp thru Buffer Strip) (See dwg. no. RD755)
 - (10) Sto. "RH" 716+71.50, Rt. To Sta. "WS" 31+72,55, Lt. (on Demaray Dr.) Const. standard conc. curb (E=7") - 268'
- (II) Sta. "RH" 716+45.41 To Sta. "RH" 718+91.56. Lt. Const. type "B" traffic separator - 567 sq.ft.
- 12) Sta. "RH" 716+85.70 To Sta. "RH" 11+30.69, Rt. Const.type "B" traffic separator - 1,025 sq.ft.
- 13) Sto. "RH" 716+87.23, Lt Const. P.C. conc. sidewalk - 261 sa.ft. Const. sidewalk ramp (Mod. ramp for sidewalks that do not continue around radius. 30' curb radius) (For details, see sht, 2B-2)
 - (14) Sta. "RH" 717+03,66, Lt. To Sta. "WN" 21+44.33, Rt. Const. standard conc. curb (E=7") - 104'

No.	DATE	REVISIONS	BY		
Δ	04-05-2011	Revised quantites	J.A.H.		

- 15) Sta. "RH" 715+97.19, Lt Const. P.C. conc. sidewalk 467 sq. ft. Const. sidewolk ramp (Mod. ramp for sidewalks that do not continue around radius. 50' curb radius) (For details, see sht. 28-2)
 - (16) Sto. "WN" 20+99.66, Lt. To Sto. "RH" 715+50.31, Lt. Const. standard conc. curb (E=7") - 111'
 - (17) Sta, "WN" 20+85.43, Lt. Const. asph. conc. road approach
 - (18) Sta. "WN" 21+35.43, Lt. Const. asph. conc. road approach
 - (19) Sta. "WN" 22+42.62, Lt. Const. asph. conc. road approach
- (20) Sto. "WN" 20+64.33 To Sto. "WN" 22+11.90 Const. type "B" traffic separator - 324 sq.ft.
 - (21) Sta. "RH" 714+25.37 To Sta. "RH" 718+91.56 Remove extg. conc. island - 3,407 sq. ft.
 - (22) Sta. "RH" 717+03.66 To Sta. "RH" 32+40.41. Lt. Const. low profile mountable curb, modified - 2,533'
 - (23) Sta. "WS" 30+95.87 To Sta. "WS" 31+80.12, LI.
 Const. neapprous stared-use path, CONCRETE 51DEWALK
 (For detaits, see sht. 28-3) CHANGE)
 - (24) See sht. 4A, note 40 Inst. type 2 fence, modified
 - (25) Sta. "WN" 22+97.63, Lt. Const. asph. conc. road approach
 - (26) Sta. "WN" 23+66.90, Lt. Const. asph. conc. road approach
- 27) Sto. "RH" 716+72.5 To Sto. "RH" 10+12.6, Rt. Inst. Type CL-4 (black vinyl coated) chain link fence 805' (See dwg. no. RD815)
- (28) Sta. "WS" 31+45.2, Lt. Inst. type CL-4 (black vinyl coated) 16' chain link double gate (See dwg. no. RD815)
- (29) Sta. "RH" 710+37 To Sta. "RH" 715+76, Rt, Inst. type 2 fence, modified - 542' Connect to extg. cross fences

- 2/160 (30) Sto. "WN" 21+14.4. Lt. Inst. multiple mailbox support (1834 & 1840 Willow) Const. conc. collar Remove extg. mailbox support
- (31) Sta. "WN" 22+85.2, Lt. Inst. single mailbox support (1802 Willow) Const. conc. collar Remove extg. single mailbox support
- (32) Sta. "RH" 707+32 To Sta. "RH" 710+37, Rt. Remove extg.fence - 305' Inst. type 2 fence, modified - 305'
- (33) Sto. "RH" 712+97 To Sto. "RH" 715+70, Rt. Remove extg.fence - 273'
- (34) Sto. "WS" 32+03 To Sto. "WS" 34+24, Rt. Maintain/protect extg. fence
- (35) Sta. "WN" 25+06, Rt. To Sta. "RH" 16+08. Lt. Maintain/protect exta.fence
- (36) Sta, "RH" 711+28 To Sta. "RH" 715+21.Lt. Maintain/protect extq. fence
- (37) Sta. "WN" 21+47 To Sta. "WN" 22+07. Lt. Extg. fence to be removed by others
- (38) Sta. "WN" 23+09 To Sta. "WN" 23+56, Lt. Extg. fence to be removed by others
- (39) Sto. "WN" 21+07.80, Lt. Remove extg. conc. barrier - 12.5'
- (40) Sta. "WN" 23+21, Lt. & Sta. "WN" 23+43, Lt Protect extg. trees at back of R/W
- (41) Sto. "RH" 716+66, 10+13 Rt. For detention pond plan, see sht. GJ For planting plan, see sht. GN-5

- (42) Sto. "RH" 716+10,60' Lt. Sta. "RH" 716+67, 53' Rt. Remove extg. flashing beacon footing - 2
- (43) Sta. "RH" 716+72.19, Rt. Sta. "RH" 14+47.49, Rt. Inst. Type S2 marker post - 2 (For details, see sht. 2B-6)



OREGON DEPARTMENT OF TRANSPORTATION



REGION 3 - TECHNICAL CENTER

US 199:DOWELL RD TO ROGUE COMMUNITY COLLEGE REDWOOD HIGHWAY

Design Team Leader - James Burford Designed By - Joson Sheadel Drofted By - Judy Hardin

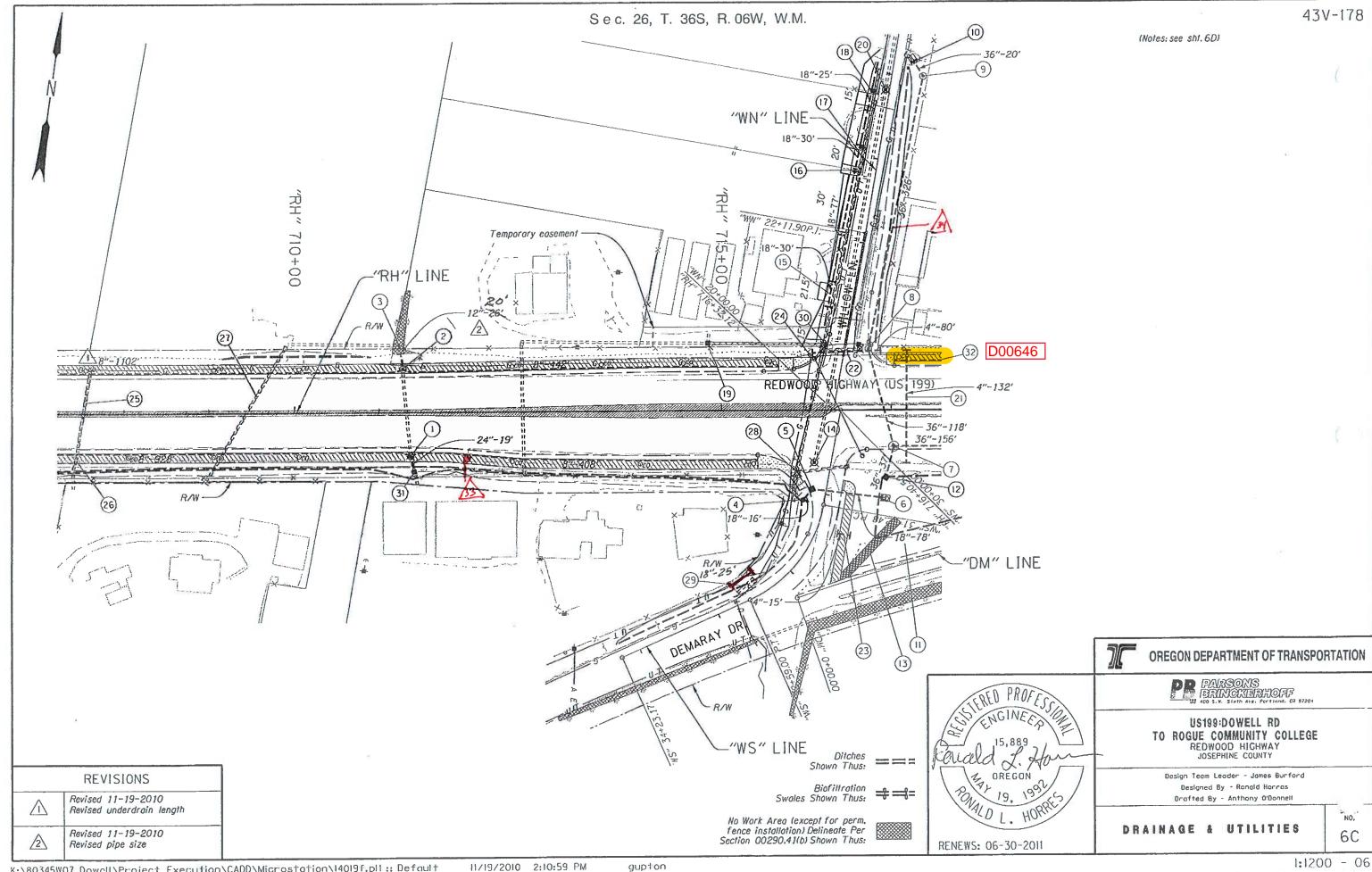
ALIGNMENT & GENERAL CONSTRUCTION

EXPIRES: JUNE 30, 2012

SHEET NO.

6A

4/5/2011 2:42:52 PM



43V-178

(6) Sta. "WS" 30+96.53, 16.63' Rt. To Sta. 30+92.26.61.40' Lt. Inst. 18" storm sew.pipe - 74 74 5' depth F.L.(W) - 944.87 F.L.(E) - 944.50 Const. 18" Paved Culvert End Slope - 35 sq.ft. (See Dwg. No. RD320) Const. loose riprap (Class 50) - 4.1 cu.yd. Riprop Geotextile Type 2 - 10.0 sq.yd. (For detail, see sht. GJ-6)

(7) Sto. "RH" 717+03.10, 42.23' Rt. Const. 72" storm sew, manhole Rim - 949.62 F.L.(N) - 939.93 F.L.(S)- 939.93 F.L.(E)- 942.23 Connect to 36" storm sew.pipe (N) Inst. 36" storm sew.pipe - 37'S 40 10' depth Inst. 36" storm sew. pipe - 156' E. 10' depth

(8) Sta. "WN" 20+78.14,27.64 Rt. Remove extg. siphon box Const. 60" storm sew. manhole w/ inlet Rim - 948.90 F.L.(S) - 939.56 F.L.(N) - 939.56 Inst. 36" storm sew.pipe - 118'S, 10' depth Connect to 36" storm sew.pipe (N)

> Sta. "WN" 24+03.84, 35.55' Rt. Canst. 72" storm sew. manhole Rim - 944.25 F.L.(S) - 938.56 F.L.(N) - 938.56 Inst. 36" storm sew. pipe - 328 S ADO 7.5 PIPE Section (21)
> 10' depth Connect to 36" starm sew. pipe (N)

(10) Sta. "WN" 24+03.84, 35.55' Rt. To Sta. 24+ 18.94, 22.40' Rt. Inst. 36" storm sew. pipe - 20'-F.L.(S) - 938.56 F.L.(N) - 938.50 10' depth Outfall to irrigation canal Const. loose riprop (Class 100) - 27 cu.yd. Riprap Geotextile Type 2 - 46.0 sq.yd. (For detail, see sht. GJ-6)

(II) Detention Facility (For details, see sht.GJ)

(12) See Sht. GJ. Note 4

See Sht. GJ, Note 7

(14) Sto. "WS" 30+65.23, 19.49', Rt. Adjust sanitary sew. manhole - minor Method B Circular Cut

Sto. "WN" 21+18.69, 27.90' Lt. To Sta. 21+48.69, 27.90' Lt. Inst. 18" culv. pipe - 30 45 5' depth F.L.(S) - 946.01 F.L.(N) - 945.46 Const. 18" sloped end -2

(16) Sta. "WN" 22+82.82, 24.68' Lt. Const. type "Field" inlet 62-MA Rim - 944.50 F.L.(S) - 943.07 F.L.(N) = 943.07(See Dwg. No. RD374) Inst. 12" storm sew.pipe - 77'S. ADD 13'. 5' depth F.L.(S) - 944.50 Connect to 12" storm sew.pipe (N)

(17) Sto. "WN" 23+12.51. 26.04' L1. To Sta. 22+82.82. 27.13' Lt. Inst. 12" storm sew. pipe -- SALJAGE + 5' depth REINSTALL CAVERT PIPE F.L.(S) - 943.07 - MAINTAIN VILLTY ACCESS 30 F.L.(N) - 942.95 * Const. 12" sloped end MENVAY

(18) Sto. "WN" 23+54.00, 23.46' L1. To Sta. 23+78.97, 20.29' Lt. Inst. 18" culv. pipe - 25'30' F.L.(S) - 942.66 95 PER EOR F.L.(N) - 942.04 Const. 18" sloped end -2 Ex

(19) Sta. "RH" 714+83.95, 79.38' Lt.
Const. siphon box and gover TRAFFIC RATED LID (See Sht.GJ-6 for details - Siphon Box E) F.L (W) - 945.0±

Connect to extenirrigation pipe (N)
Relocate 4' of 10" Pipe From E. to M. Sta. "WN" 23+81.34.23.46' Lt. Adjust sanitary sew. manhole - minor Method B Circular Cut

Sta. "RH" 717+17.72.70.06' Lt. To Sto. 717+17.72, 61.94' Rt. Inst. 4" irrigation sleeve - 132' 5' depth F.L.(N) - 945.00 F.L.(S) - 945.00 Inst.irrigation sleeve end - 2 (For details, see sht. GN-1)

(22) Sta. "RH" 716+07.55,67.46' Lt. To Sta. 716+87.50. 70.19' Lt. Inst. 4" irrigotion sleeve - 80' 5' depth F.L.(W) - 946.00 F.L.(E) - 945.00 Inst. irrigation sleeve end - 2 (For details, see sht. GN-1)

(23) Sto. "WS" 31+38.44, 24.38' Lt. To Sto. 31+36.39.39.18' Lt. Inst. 4" irrigation sleeve - 15 5' depth F.L.(W) - 947.75 F.L.(E) - 947.00 Inst. irrigation sleeve end - 2 (For details, see sht. GN-1)

(24) Sta. "RH" 716+04.02,65.35' Lt. Adjust natural gas valves (By Others)

KEVISIONS 3 GOTISTED SLOPED END QTY, AREVISED NOTE 9-14-11 KCT

(25) See sht. 5B, note 7

(26) See sht. 5B, note 8

(27) Sta. "RH" 708+97.11, 78.24' Rt. To Sta. 709+88.92, 75.69' Lt. Abandon 12" irrigation pipe - Rt. side - 1

(28) Sta. "RH" 715+88.93, 72.56' Rt. Remove extg.inlet Abandon 12" storm sew.pipe - Rt.side - 1 Abandon 18" storm sew.pipe - Lt.side - 1 Remove extg. 18" storm sew. pipe - 33'S 25'
REPLACED (ADS)

Sta. "WS" 32+42:80, 20:86" Rt. To Sta. 32+68:77, 13.74" Rt. Remove extg. 18" culv. pipe - 25' REINSTAIL 18" culv PIPE 25'

Sta. "WN" 20+73.77, 25.27' Lt. Remove extg. siphon boxes - 2 Abandon 12" irrigation pipe - Rt. side - 1 Abandon 8" irrigation pipe - Rt. side - 1

Abandon 10" irrigation pipe - Lt. side - 1
RELOCATE 4' OF 10" PIPE TO MEN SIRNON BOX E (N)
Sta. "RH" 711+40.22, 50.73'LT. PI
SEE 19 Const. type "Field" inlet 62-MA

Rim - 948.40 F.L.(S) - 945.90 F.L.(N) - 945.90

Connect to extg. 24" storm sew. pipe (S) Connect to 24" storm sew.pipe (N)

(32) See Sht. 7B. Note 4

ADJUST Ext. SIPHON BOX + INSTALL L'O (5) RA 712+75RT

INSTALL SUBSURFACE DRAWS - 8 EA WN 21440 to 23+85 et

REVISIONS

Revised 11-19-2010 Revised underdrain length and cleanouts

Revised 11-19-2010 Revised pipe size

OREGON DEPARTMENT OF TRANSPORTATION

PARSONS
BRINGKIERHOFF
400 S.W. Sizih Are. Portland. DR 97204

US199:DOWELL RD TO ROGUE COMMUNITY COLLEGE REDWOOD HIGHWAY JOSEPHINE COUNTY

Design Team Leader - James Burford Designed By - Ronald Horres Drofted By - Anthony O'Donnell

DRAINAGE & UTILITIES

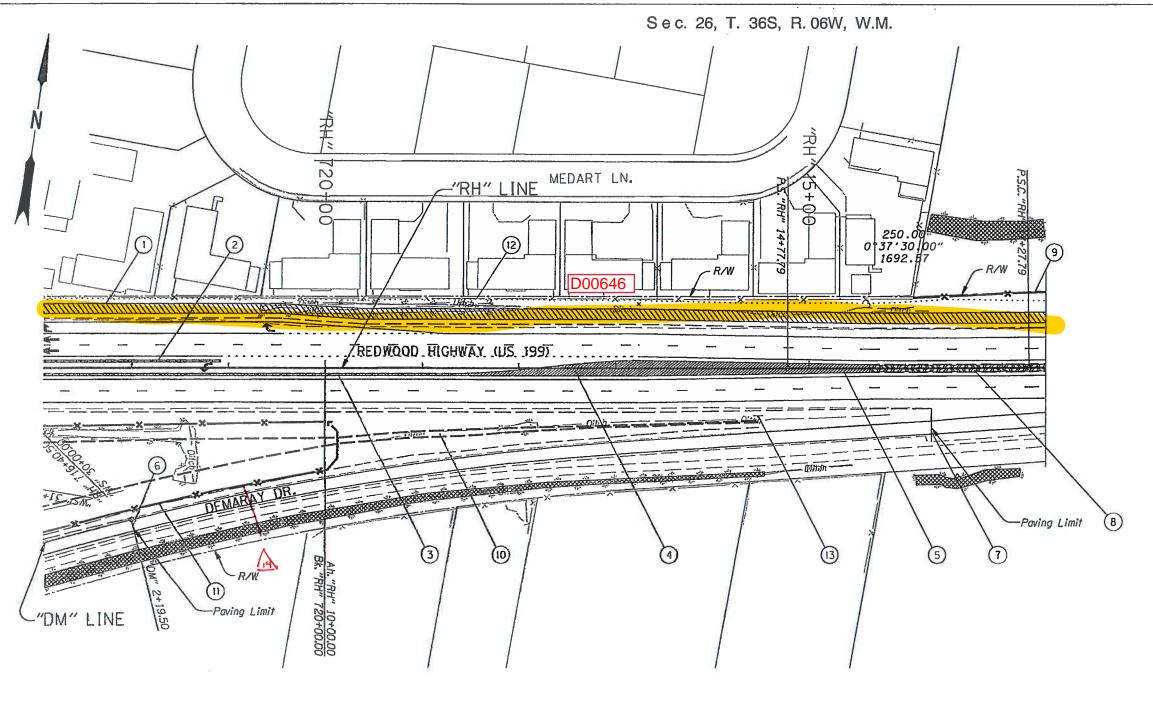
6D

RENEWS: 06-30-2011

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(12) See sht. 6A, note 35 Maintain/protect extg.fence

(13) See sht. 6A, note 43 Inst. Type S2 marker post

om 2+82 INSTALL 69 of 24" STORM PIPE 10' DEEP - N

SCALE 1" = 100' 100 200 FEET

Porous Rock Island Starts Shown Thus: 22535

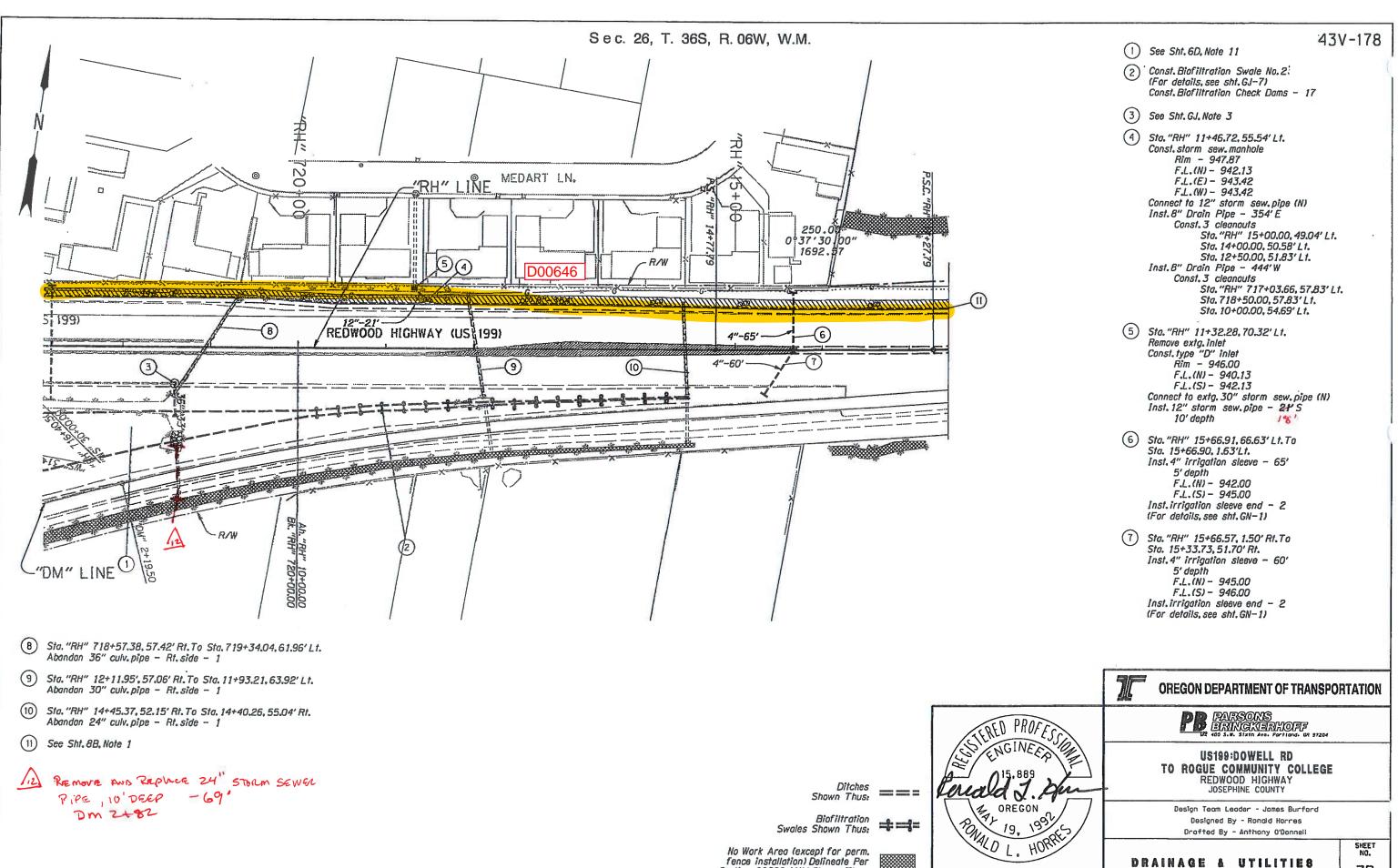
Porous Shared Use Path
Shown Thus:

Concrete island/Traffic separator Shown Thus:

No Work Area (except for perm.fence installation) Delineate per Section 00290.41(b) Shown Thus:

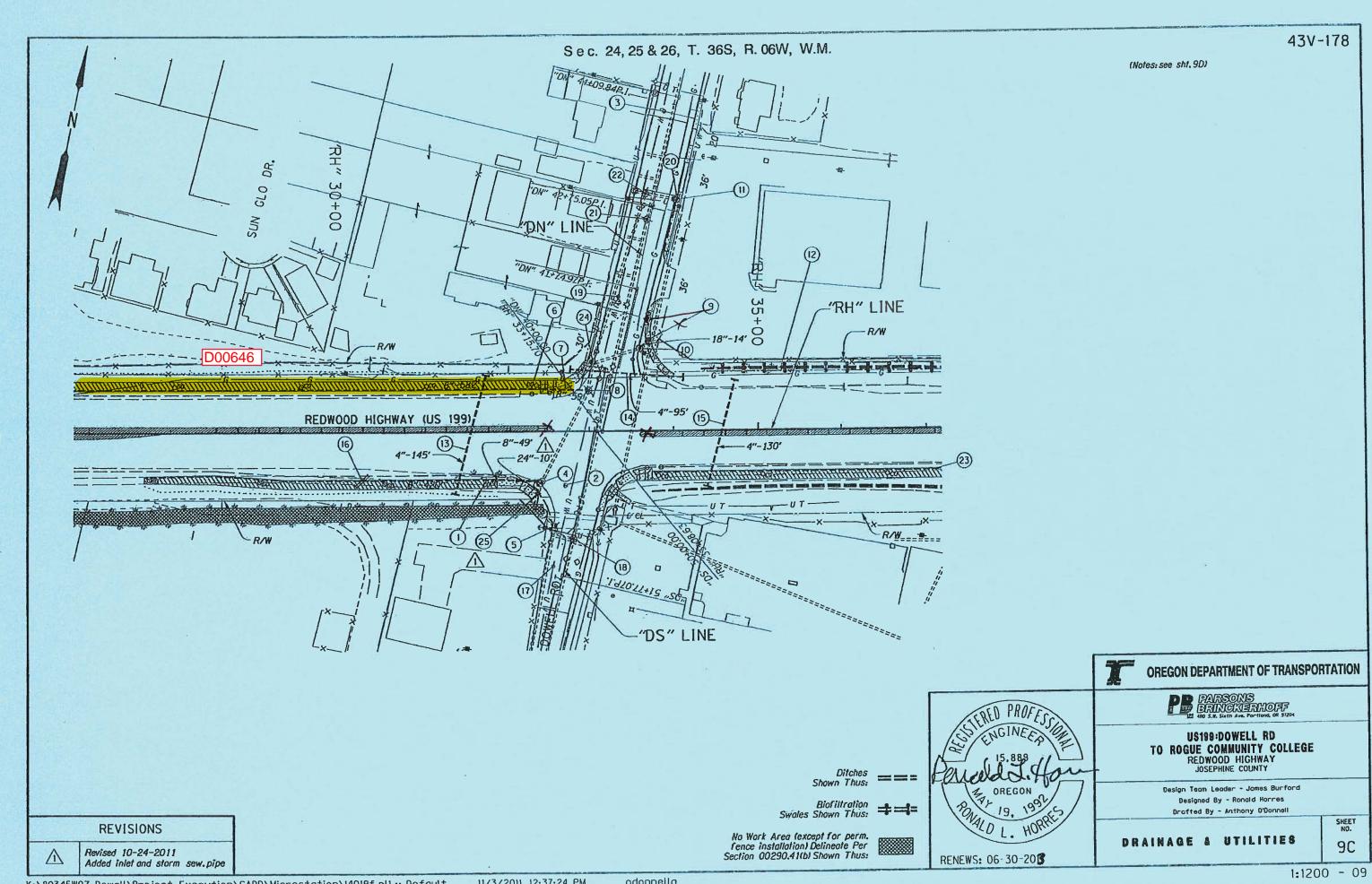


ALIGNMENT & GENERAL CONSTRUCTION



Section 00290.41(b) Shown Thus:

RENEWS: 06-30-2011



- 1 Sta. "RH" 27+68.49, 52.49' Rt. To Sta. 31+88.57, 56.83' Rt. Inst. 8" drain pipe - 420' Const. 4 cleanouts Sta. "RH" 27+68.49, 52.49' Rt. Sta. 29+00.00, 54.24' Rt. Sta. 30+50.00, 56.83' Rt. Sta. 31+88.57, 56.83' Rt. Connect to 8" storm sew. pipe (E)
- Sta."DS" 50.71.23, 21.47" Lt.
 Adjust box survey monument
- 3 Sta."DN" 43+89.42, 12.70'Lt.
 Adjust box water valve

Const. type "G-2" inlet

Rim - 945.58

- (4) Sta. "RH" 32+38.84,61.32' Rt.
 Remove extg. manhole
 Remove extg. 12" storm sew. pipe 26' W
 Const. 96" storm sew. manhole
 Rim 943.85
 F.L.(N) 939.65, CL off set 2.50' N
 F.L.(NE) 939.19, CL off set 1.75' E
 F.L.(S) 940.03, CL off set 1.50' W
 Inst. 8" storm sew. pipe 49' W
 5' depth
- Connect to 8" drain pipe (W)
 Connect to extg. 24" storm sew. pipe (NE)
 Connect to 24" storm sew. pipe (S)

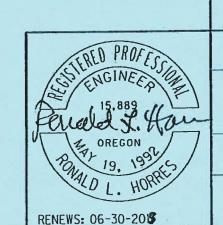
 (5) Sta."DS" 51+21.95, 25.20' Rt.
 Remove extg. inlet

F.L.(NW) - 942.44 F.L.(S) - 942.44 Connect to 24" extg.storm sew.pipe (NW) Connect to 24" extg.storm sew.pipe (S)

- © Sta. "RH" 26+56.23,50.35' Lt. To Sta. 32+40.41,50.81' Lt. Inst. 8" drain pipe - 582' Const. 5 cleanouts Sta. "RH" 26+56.23,50.35' Lt. Sta. 28+00.00,50.83' Lt. Sta. 29+50.00,50.83' Lt. Sta. 31+00.00.50.83' Lt. Sta. 32+40.41,50.81' Lt. Connect to 8" storm sew. pipe
- To Sta."RH" 32+40.41, 50.81' Lt. To Sta."RH" 32+99.19, 48.69' Lt.
 Inst.8" storm sew.pipe 59' 43'
 5' depth
 Connect to 8" drain pipe (W)
 Connect to extg.storm sew.manhole (E)
 F.L.(E) 939.87,

- 8 Sta."RH" 32+99.19,48.69' Lt. Adjust storm sew.manhole -- minor Method B Circular Cut
- 9 Sta. "DN" 41±18.53.27.98' Rt.
 Const. type "CG-3" inlet
 Rim 940.42
 F.L.(SW) 936.61
 (See Dwg. No. RD371 And RD372)
 Connect to 18" storm sew. pipe (SW)
 12" (N374CL 28)
- (10) Sto."DN" 41+06.34.20.41 Rt.
 Remove extg.inlet
 Const. storm sew.manhole
 Rim 941.25
 F.L.(SW) 936.47
 F.L.(NE) 936.50
 Connect to extg. 18" storm sew.pipe (SW)
 Inst. 18" storm sew.pipe 1" NE
 12" 5' depth
- Sta. "DN" 42+90.06, 22.14' Rt.
 Remove extg. inlet
 Const. type "G-2" inlet
 Rim 937.50
 F.L.(W) 934.13
 Connect to extg. 12" storm sew. pipe (W)
- (12) See sht. 10B, note 3
- (13) Sta."RH" 31+75.66, 67.20' Lt.
 To Sta. 31+39.84, 73.31' Rt.
 Inst. 4" irrigation sleeve 145'
 5' depth
 F.L.(N) 938.00
 F.L.(S) 938.50
 Inst.irrigation sleeve end 2
 (For details, see shi. GN-1)
- (14) Sta. "RH" 32+76.68.73.88' Lt.
 To Sta. 34+11.28.63.43' Lt.
 Inst. 4" irrigation sleeve 95'
 5' depth
 F.L. (W) 939.00
 F.L. (E) 939.00
 Inst. irrigation sleeve end 2
 (For details, see sht. GN-1)
- (15) Sta. "RH" 34+71.92, 59.78' Lt.
 To Sta. 34+39.81, 66.19' Rt.
 Inst. 4" irrigation sleeve 130'
 5' depth
 F.L.(N) 938.00
 F.L.(S) 937.00
 Inst.irrigation sleeve end 2
 (For details, see sht. GN-1)

- (16) Sta."RH" 30+20.56,64.20' Rt. To Sta. 30+35.65, 50,64' Rt. Remove exst. 12" culv. pipe - 20'
- 17) Sta."DS" 51+68.15, 13.97' Rt. Adjust box water valve
- (B) Sta."DS" 51+30.69, 2.42' Lt.
 Adjust san. sew. manhole minor
 Method B Circular Cut
- (19) Sta."DN" 41+60.71, 19.25' L1. Adjust box – water valve
- 20) Sta."DN" 42+93.98, 24.25' Rt. Adjust box water meter
- (21) Sta."DN" 42+59.35, 3.77'Lt. Adjust san. sew. manhole — minor Method B Circular Cut
- (22) Sta."DS" 42+93.68, 15.26'Lt. Adjust san. sew. manhole - minor Method B Circular Cut
- (23) See Sht. 10B. Note 1
- 24 Sta. "DN" 40+77.38, 30.43' Lt.
 Remove extg. inlet
 Const. type "GG-3" inlet GZ
 F.L.(S) 937.06
 F.L.(N) 937.02
 F.L.(E) 936.45
 Connect to extg. 18" storm sew. pipe (S)
 Connect to extg. 18" storm sew. pipe (N)
 Connect to extg. 18" storm sew. pipe (E)
- 25 Sta."DS" 50+88.36.52.74' Rt.
 Remove extg. 24" storm sew.pipe 12' N
 Const. type "CG-3" inlet
 Rim 944.27
 F.L.(N) 940.60
 F.L.(S) 940.60
 Connect to extg. 24" storm sew.pipe (S)
 Inst. 24" storm sew.pipe (N) 10' •





US199:DOWELL RD
TO ROGUE COMMUNITY COLLEGE
REDWOOD HIGHWAY
JOSEPHINE COUNTY

Design Team Leader - James Burford Designed By - Ronald Korres Drofted By - Anthony O'Donnell

DRAINAGE & UTILITIES

SHEET NO.

REVISIONS

Revis
Adde

Revised 10-24-2011 Added inlet, revised manhole and inlet location/inverts and pipe lenath.