OPERATION & MAINTENANCE MANUAL

DFI No. : D00634
Facility Type: Water Quality Biofiltration Swale

December, 2018

INDEX

1. Identification

Drainage Facility ID (DFI):	**D00634**
Facility Type:	Water Quality Biofiltration Swale
Construction Drawings:	46V-003
Location:	District: 08
	Highway No.: 001
	Mile Post: 66.90; 69.40 (beg./end)
	Description: This facility is located on the east side of northbound I-5. Access to the facility can be obtained along the east shoulder of I-5.

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:	Jered Carpenter – Region 3 Tech Center Roseburg, (541) 957 - 3693
Facility construction:	2012
Contractor:	N/A

4. Storm Drain System and Facility Overview

A water quality swale is a flat-bottomed open channel designed to treat stormwater runoff from highway pavement areas. This type of facility is lined with grass. Treatment by trapping sedimentation occurs when stormwater runoff flows through the grass.

Description: This facility is located on the east side of northbound I-5. Access to the facility can be obtained along the east shoulder of I-5. Stormwater enters the facility via roadway runoff and various drainage ditches located along the east side of I-5. As the water flows downhill, it is treated as it slows and spreads out within the swale before outfalling into the drainage ditch system.

A. Maintenance equipment access:
This facility can be accessed from the east shoulder of I-5.

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 biofiltration swale can be used to store a volume of liquid by blocking the facility outlet or any of the check dams through use of sandbags.

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
There are no auxiliary outlets built into this facility. In the event that flows exceed design flows the water will overtop the swale.

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:

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:

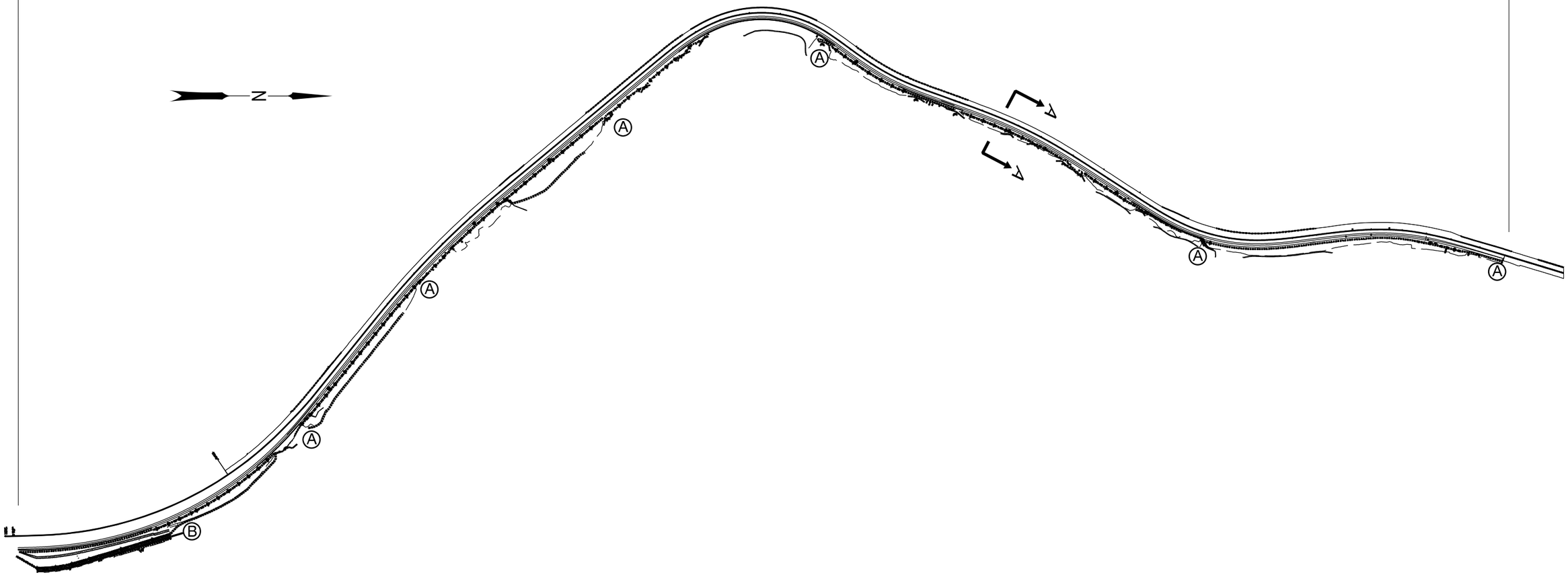
- **Operational Plan and Profile Drawing(s)**

MP
69.40

Water Quality
Biofiltration Swale
(DFI D00634)

± 13200 Ft.

MP
66.90



PLAN
N.T.S.

LEGEND:

- Ⓐ Swale Inlet
- Ⓑ Swale Outlet
- ◉ and/or ◎ Manhole
- ■ and/or □ Inlet
- Storm Pipe (Facility)
- Storm Pipe
- Conveyance Direction
- Pavement / Facility Flow Path

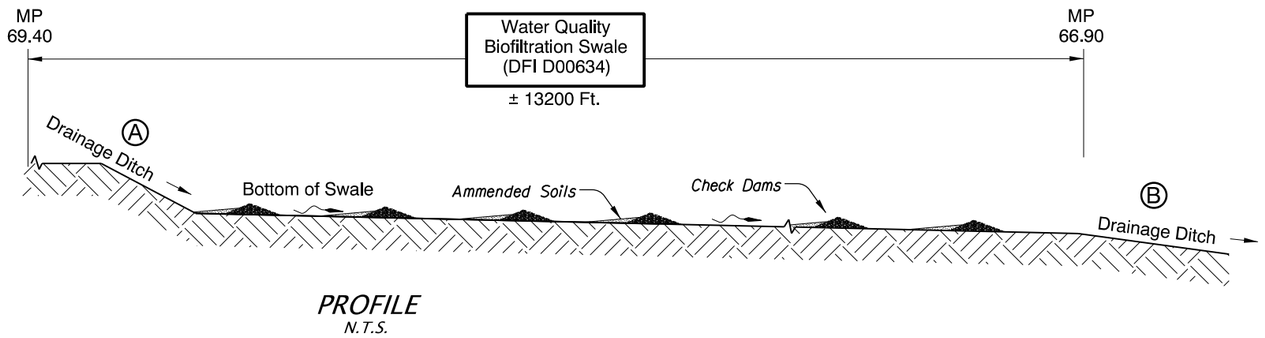
OREGON DEPARTMENT
OF TRANSPORTATION

Prepared By:
J. GONZALEZ

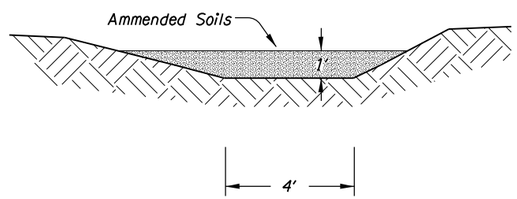
Drafted By:
J. GONZALEZ

DFI D00634
MAINTENANCE DISTRICT 8 HWY 001
WQ BIOFILTRATION SWALE
HIGHWAY MP 66.90 TO 69.40
JOSEPHINE

DFI_D00000.dgn



PROFILE
N.T.S.



SECTION A-A
N.T.S.

LEGEND:

- Ⓐ Swale Inlet
- Ⓑ Swale Outlet
- ◉ and or ◎ Manhole
- ■ and or □ Inlet
- Storm Pipe (Facility)
- Storm Pipe
- Conveyance Direction
- Pavement / Facility Flow Path

OREGON DEPARTMENT OF TRANSPORTATION

Prepared By: J. GONZALEZ

Drafted By: J. GONZALEZ

DFI D00634
MAINTENANCE DISTRICT 8 HWY 001
WQ BIOFILTRATION SWALE
HIGHWAY MP 66.90 TO 69.40
JOSEPHINE

DFI_D00000.dgn

Appendix B

Content:

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

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Title Sheet
1A	Index Of Sheets Cont'd. & Std. Dwg. Nos.

STATE OF OREGON

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

GRADING & PAVING

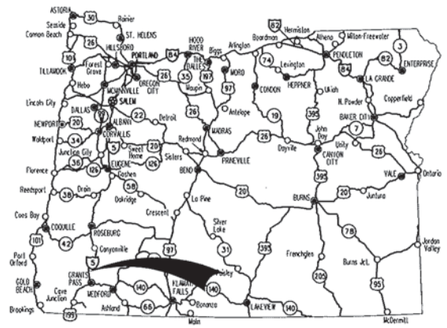
I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE

PACIFIC HIGHWAY

JOSEPHINE & DOUGLAS COUNTY

DECEMBER 2012

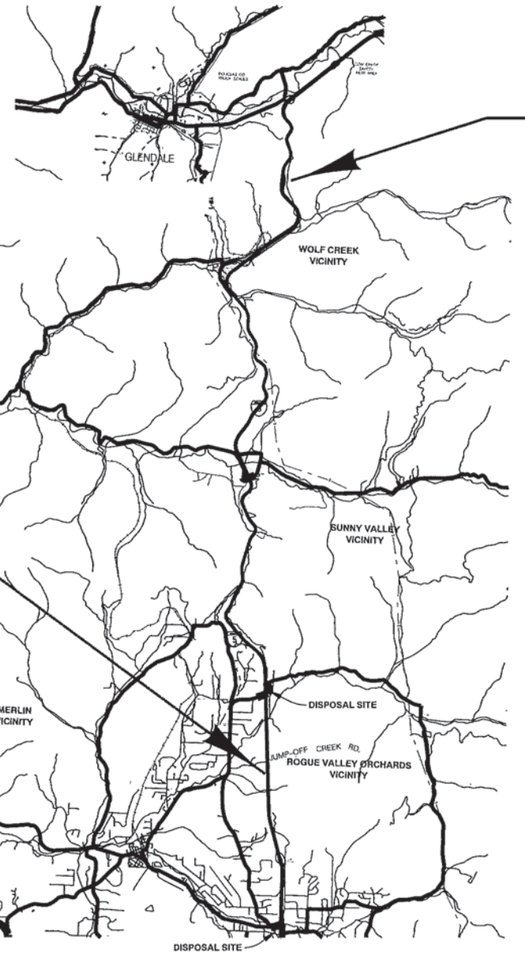
46V-003



Overall Length Of Project - 14.5 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



BEGINNING OF PROJECT
IM-STP-S001(407)
STA. "NB" 15+82.5 (M.P. 81.40)

END OF PROJECT
IM-STP-S001(407)
STA. "SB" 866+00.0 (M.P. 66.7)

N

T. 32 S., R. 6 W., W.M.
T. 33 S., R. 6 W., W.M.
T. 34 S., R. 6 W., W.M.

OREGON TRANSPORTATION COMMISSION

Pat Egan	CHAIR
Mary F. Olson	COMMISSIONER
David Lohman	COMMISSIONER
Mark Frohnmayer	COMMISSIONER
Tammy Baney	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: M. Thom
Signature & date 12-15-12

Mark Thompson Rg. 3 Tech. Ctr. Mgr.
Print name and title

Concurrence by ODOT Chief Engineer

I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSHEPHINE & DOUGLAS COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	IM-STP-S001(407)	1

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_LKC.TSI :: Default 11/14/2012 11:50:22 AM hwye32v

1:1200 - 001

46V-003

INDEX OF SHEETS, CONT'D.

SHEET NO.	DESCRIPTION
1C Thru 1C-7	Survey Control Sheets
2 Thru 2A-7	Typical Sections
2B Thru 2B-21	Details
2C Thru 2C-14	Traffic Control Plans
2D Thru 2D-2	Pipe Data Sheets
3 Thru 5A 6 Thru 36	General Construction
36A	Construction Notes
37, 37A, 38 Thru 47	General Construction
47A	Profile
48, 49	General Construction
49A	Construction Notes
49B, 49C	Profiles
50	General Construction
50A	Profiles
51	General Construction
51A	Profiles
52	General Construction
52A	Profiles
53, 54	General Construction
54A	Profiles
55	General Construction
55A	Profiles
56	General Construction
56A	Profiles
57, 58	General Construction
58A, 58B	Profiles
59	General Construction

GEO/HYDRO	
GA Thru GA-16	Erosion Control
GB Thru GB-39	Geotechnical Data
GM-1 Thru GM-3	Prospective Material Source

DRAWING NO.	DESCRIPTION
BRIDGE	
89917	Bridge Index Sheet
89918	Plan Br.# 09352, 09352A, 09337, 09339
89922	Plan Br.#09440, 09440A, 09439, 09439A, 19626, 19627
89923	Misc. Details

PERMANENT PAVEMENT MARKINGS	
ST-1 Thru ST-5	Striping Plan

PERMANENT SIGNING	
S-13412 Thru S-13434	Sign Plans

ITS	
ITS-1158	Pavement Sensor Installation Details

Standard Dwg. Nos.

RD150	- Slope Rounding
RD300	- Trench Backfill, Bedding, Pipe Zone And Mult. Installations
RD302	- Street Cut
RD312	- Subsurface Drain
RD316	- Sloped Ends For Metal Pipe
RD318	- Sloped Ends For Concrete Pipe
RD319	- Miscellaneous Culvert Details
RD320	- Paved End Slope For Culverts 60" Maximum Pipe Size
RD326	- Coupling Bands For Corrugated Metal Pipe
RD334	- Locator Post
RD335, RD336, RD342, RD344, RD346	- Manholes
RD348	- Manhole with inlet
RD356	- Manhole Cover & Frames
RD360	- Manhole Frame Adjustment
RD364, RD368,	- Concrete Inlets
RD376	- Miscellaneous Drainage Structures
RD380, RD384, RD386, RD388, RD390	- Pipe Fill Height Tables
RD398	- Culvert ID Marker
RD399	- Stormwater Treatment and Storage Facility Field Markers
RD400, RD405, RD410, RD415, RD420, RD435, RD440, RD450	- Guardrail
RD500	- Precast Concrete Barrier Pin And Loop Assembly
RD505	- Concrete Barrier Cast-in-Place
RD510	- Concrete Barrier Terminal
RD515	- Median Barrier Anchoring Details
RD516	- Securing Concrete Barrier To Roadway
RD530	- Guardrail Transition To Concrete Barrier
RD545	- Precast Tall (42") Concrete Barrier
RD560	- Cast-In-Place Tall Conc. Barrier Tran. to Std. Conc. Barrier
RD570	- Guardrail Transition To Tall Concrete Barrier
RD575	- Tall Concrete Barrier (Modified) Around Median Obstacle
RD610	- Asphalt Pavement Details
RD700, RD701	- Curbs
RD810	- Barbed And Woven Wire Fences
RD815	- Chain Link Fence
RD1000	- Construction Entrances
RD1005	- Check Dams
RD1015	- Inlet Protection
RD1040	- Sediment Fence
RD1055	- Matting

R/W Map No.

BR203	- Transition Concrete Bridge Rail To Guardrail
BR236	- Trailing End Bridge Connection Conc. Bridge Rail To Guardrail
BR270	- Rail Transition From Flex Beam Rail To Curb & Parapet Rail
TM200	- Sign Installation Details
TM201	- Miscellaneous Sign Placement Details
TM211	- Signing Details
TM221, TM222	- Milepost Marker Details
TM224	- Directional Sign Layout
TM230, TM231, TM232, TM233	- Mounting Details For Removable Legend
TM500, TM501, TM502, TM503	- Pavement Marking Standard Details
TM515	- Raised Pavement Markers
TM516	- Raised Pavement Markers Freeway Med. Crossover
TM517	- Recessed Pavement Markers
TM522	- Durable Pavement Markings
TM530	- Intersection Pavement Markings
TM547	- Freeway Entrance Ramp Pavement Markings
TM551	- Freeway Exit Ramp Pavement Markings
TM560,	- Alignment Layout
TM570	- Traffic Delineators
TM571	- Traffic Delineators Steel Post Details
TM575	- Traffic Delineator Installation
TM602	- Triangular Base Breakaway Multi-Direction Slip Base
TM635	- Breakaway Sign & Luminaire Supports
TM670	- Wood Post Sign Supports
TM671	- 3 Second Gust Wind Speed Isotach
TM675	- Extruded Aluminum Panels
TM676	- Sign Attachments
TM678	- Secondary Sign Mounting Details
TM681, TM687, TM688	- Square Tube Sign Supports
TM800	- Tables, Abrupt Edge And PCMS Details
TM810	- Temporary Reflective Pavement Markers
TM820	- Temporary Barricades
TM821	- Temporary Sign Supports
TM830	- Temporary Concrete Barrier And Rumble Strips
TM831, TM832	- Temporary Impact Attenuators
TM860, TM861, TM862	- Freeway Sections
TM870	- Bridge Construction
TM871	- Blasting Zones

No.	DATE	REVISIONS	BY
1	10-30-12	Added std. dwg. no.	
2	11-07 -12	Added sheets	

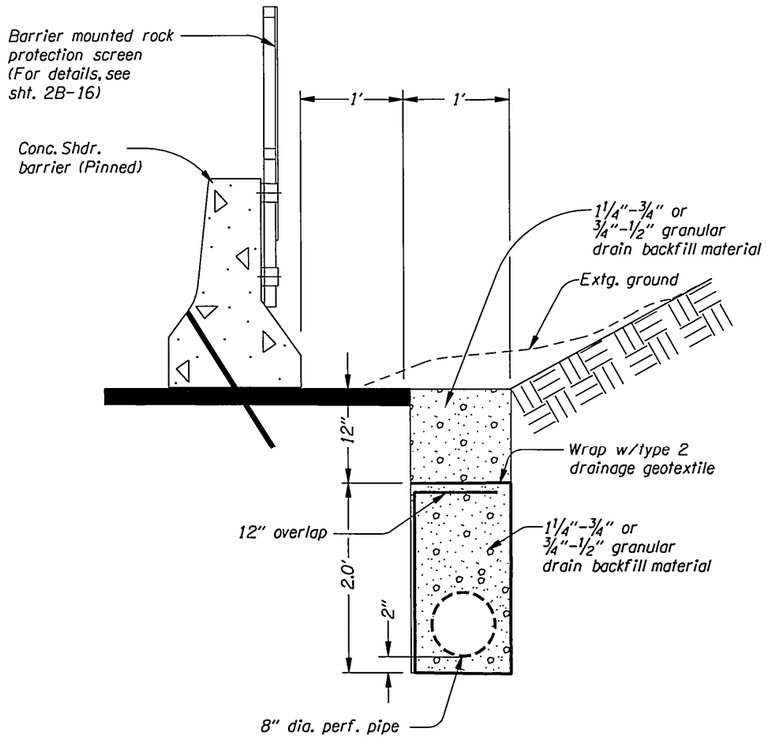
Standard Drawings located on the web at:
http://www.oregon.gov/ODOT/HWY/ENGSERVICES/standard_drawings_home.shtml

I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	IM-STP-S001(407)	1A

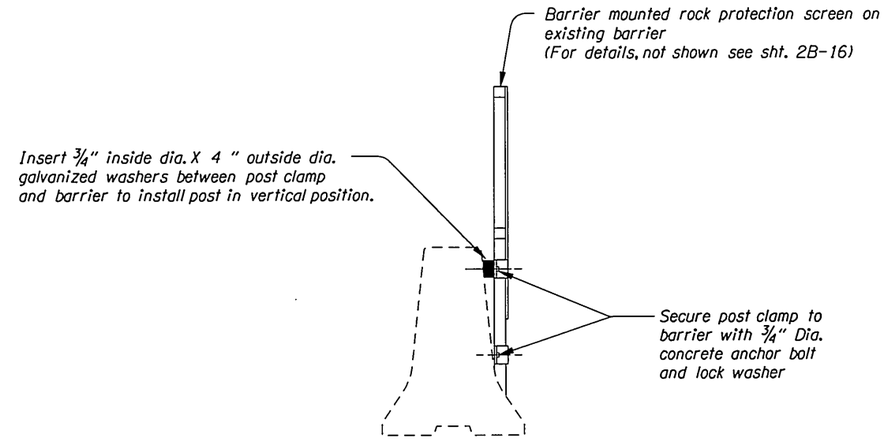
46V-003

SUBSURFACE DRAIN DETAIL



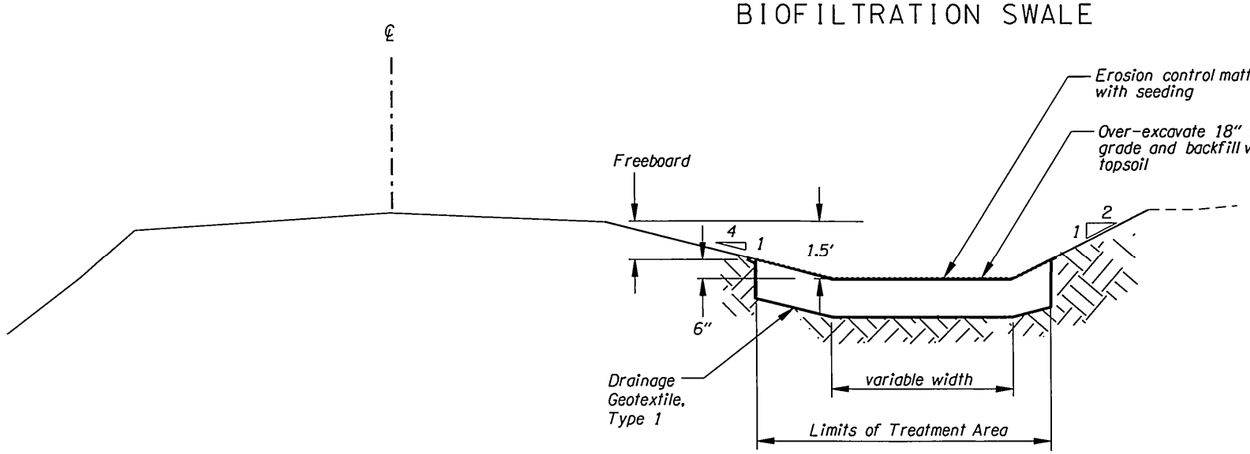
1. For details not shown See dwg. no. RD312

BARRIER MOUNTED ROCK PROTECTION SCREEN ON EXISTING BARRIER



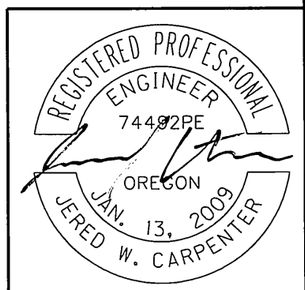
SECTION A-A

BIOFILTRATION SWALE



SECTION

NOTE:
1. Side-slopes are shown as vert. to horiz.



EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

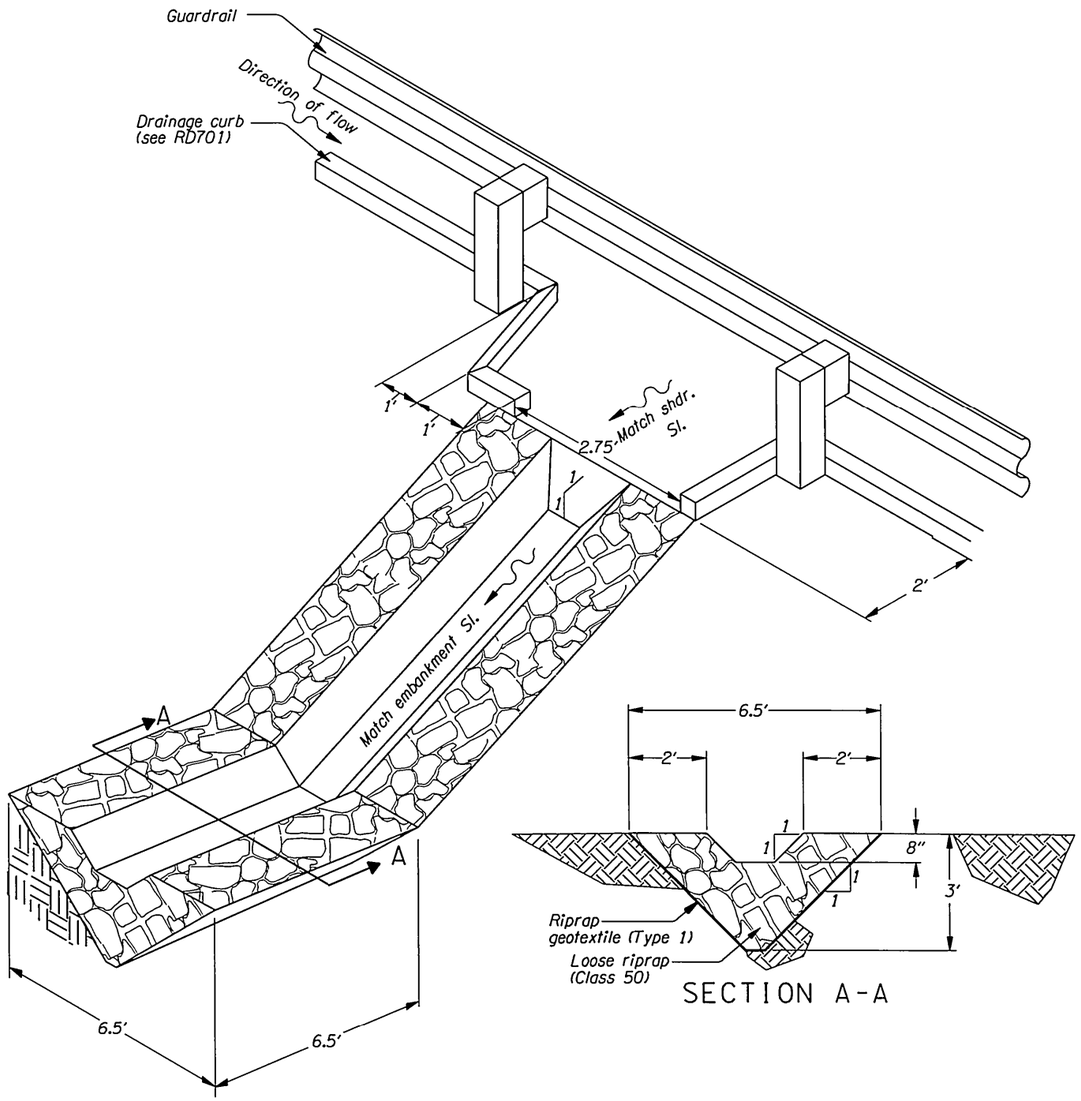
I-5: GLENDALE - HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed by - Brian Sheadel
Drafted By - Billy Shafer

DETAILS

SHEET NO. 2B-6

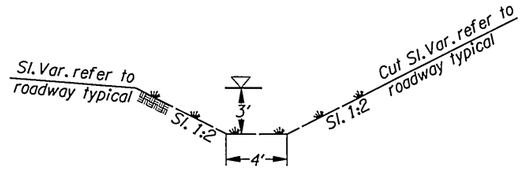
AC OUTLET STRUCTURE AND SLOPE PROTECTION



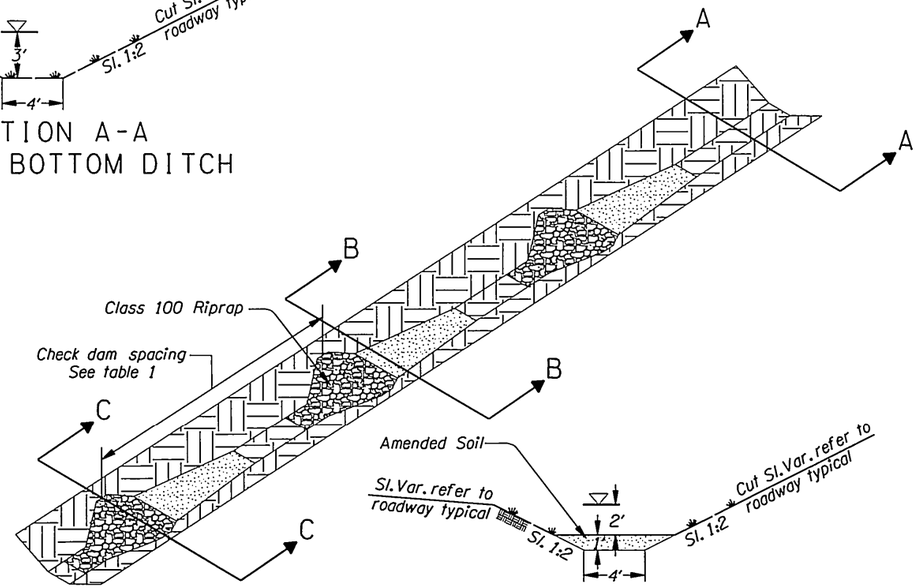
SECTION A-A

BIOFILTRATION CHECK DAM

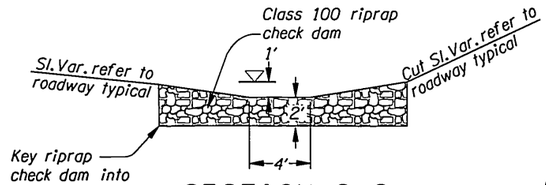
46V-003



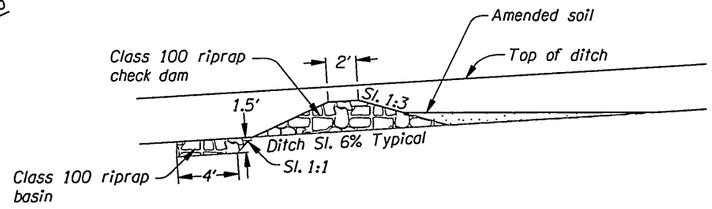
SECTION A-A
4' FLAT BOTTOM DITCH



SECTION B-B
4' FLAT BOTTOM DITCH
WITH AMMENDED SOIL



SECTION C-C
CHECK DAM



NOTE:
1. Side-slopes are shown as vert. to horiz.

TABLE 1

Ditch Slope (%)	Ctr. - Ctr. Check dam spacing (Ft.)
3	80
4	70
5	60
6	50

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE - HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

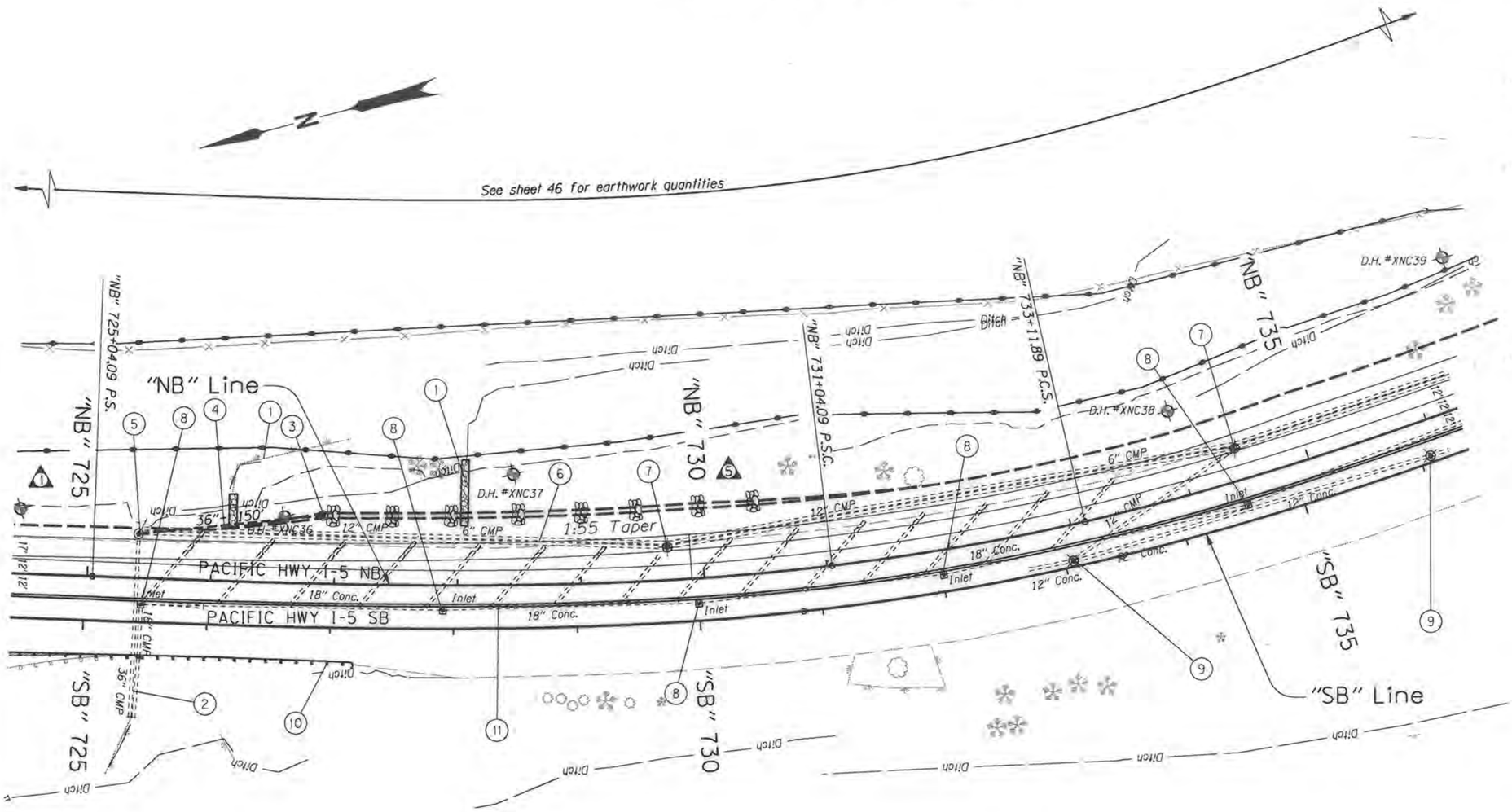
Designed By - Jered Carpenter
Reviewed by - Brian Sheadel
Drafted By - Billy Shafer

DETAILS

SHEET NO. 2B-7

46V-003

Sec. 14, T. 34 S, R. 6 W, W.M.
Sec. 23, T. 34 S, R. 6 W, W.M.



(1) Sta. "NB" 726+40 Lt. to Sta. "NB" 728+06 Lt.
Const. slope protection - 2
(Class 50 riprap) - 60 C.Y.
(For details, see sht. 2B-7)

▲2 (2) Sta. "NB" 725+40.52
Rehab. extg. 36" culvert with CIPP liner - 152'
Make spot repairs
(Subject to the in-water work period or when completely dry).

▲3 (3) Sta. "NB" 726+90.00, 55.21 Lt.
Const. 60" manhole w/ mod. ditch inlet
(For details, see sht. 2B-8 & 47A)
(See dwg. no. RD346)

(4) Sta. "NB" 726+90.00 55.21' Lt. to "NB" 725+40.52, 35.80' Lt
Inst. 36" storm sew. - 150'
(For details, see sht. 47A)

(5) Sta. "NB" 725+40.52, 35.80 Lt.
▲3 Const. 60" manhole over extg. storm pipe
(See dwg. no. RD346)

(6) Remove 12" perf. pipe - 1,050'

▲4 (7) Major adjust manholes - 2

(8) Adjust inlet - 5

(9) Minor adjust manhole -2

(10) See sht. 46, note 5
Const. anchor (Type 1 mod.)
Inst. anchor (Type B)

(11) See sht. 38, note 8

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517.
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

No.	DATE	REVISIONS	BY
▲1	10-01-12	Revised location of "NO WORK AREA"	JWC
▲2	10-19-12	Revised note composition	JWC
▲3	10-22-12	Revised note	JWC
▲4	10-25-12	Revised note	JWC
▲5	10-25-12	Removed abandon pipe symbol	JWC

▲4 Drainage Notes:
1) As-built drawings 3V-167 & 8V-127 showing perf. pipe in the NB lanes from approx. Sta. "NB" 725+00 to approx. Sta. "NB" 748+00. Avoid damaging perf. pipes during construction activities. Survey data indicates that the perf. pipes are deeper than 36" at the manholes shown.

▲4 2) If perf. pipes are disturbed during construction take care to minimize the disturbance & replace the damaged section with the corresponding size of drain pipe according to the contract Schedule of Items.

Legend
1. Check dam shown thus: (For details, see sht. 2B-7)
2. "NO WORK AREA" Shown THus:

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION
REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

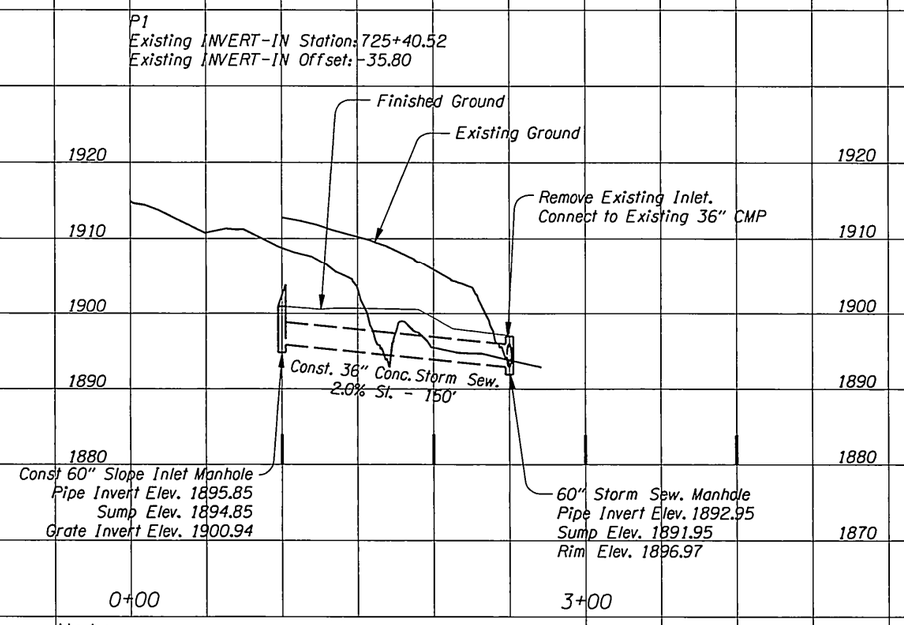
GENERAL CONSTRUCTION

SHEET NO. 47

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_south_LKC.PL5 :: Default 10/30/2012 1:29:52 PM hwye32v

1:1200 - BL - 011

46V-003



Note:
1. Existing INVERT-IN of proposed pipe @ Sta. "NB" 725+40.52, -35.80 Lt. (See sht. 47, note 3)
2. Profile shown @ pipe ℄

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2011

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

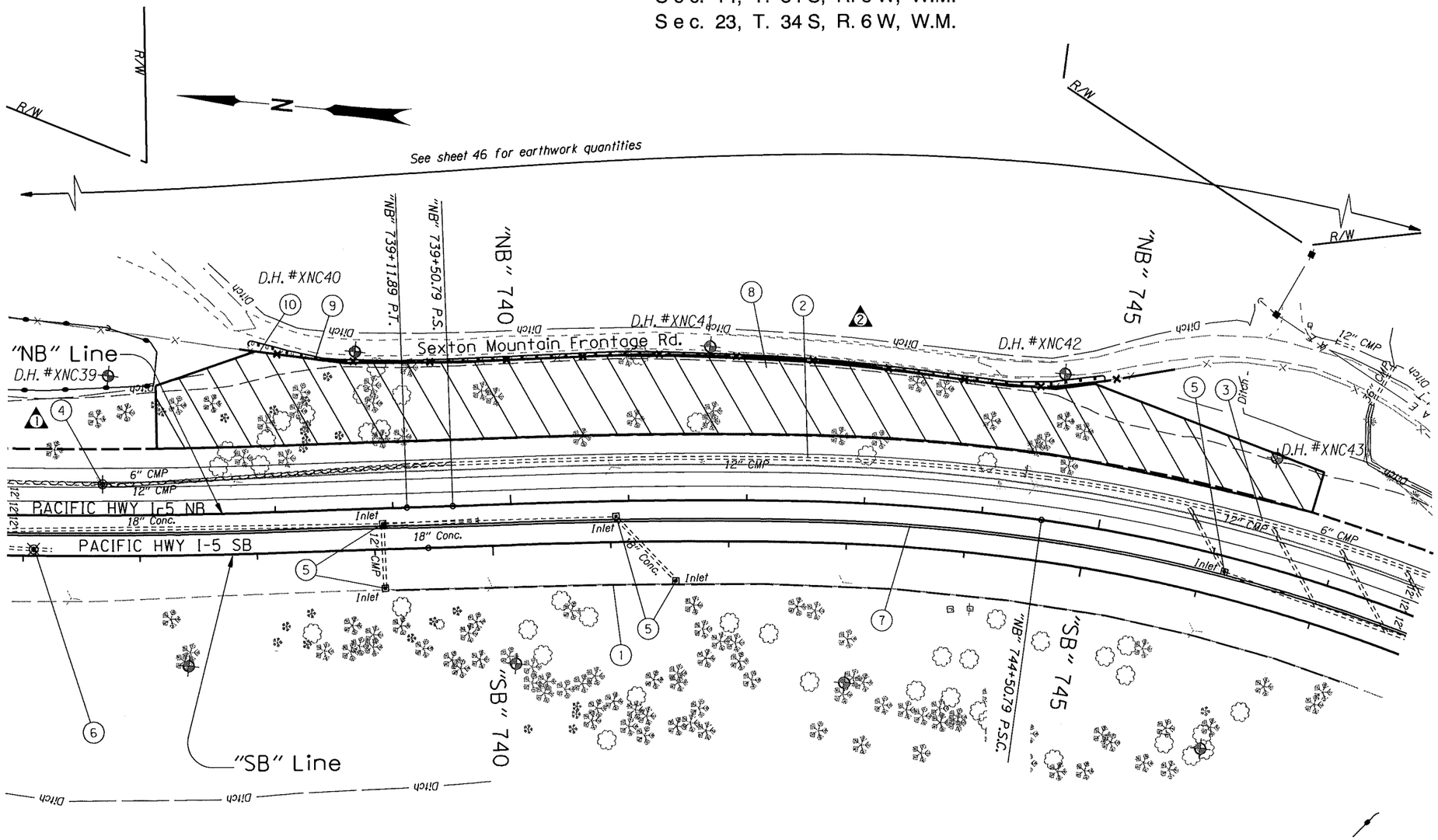
Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 47A

46V-003

Sec. 14, T. 34 S, R. 6 W, W.M.
Sec. 23, T. 34 S, R. 6 W, W.M.



(1) Sta. "SB" 739+15.3 to "SB" 747+42.3, Rt.
Remove drainage curb - 815'
Const. drainage curb - 815'

(2) Remove 9" perf pipe - 950'

(3) Remove 12" perf. pipe - 260'

(1) (4) Major adjust manhole

(5) Adjust inlet - 5

(6) See sht. 47, note 9

(7) See sht. 38, note 8

(8) Sta. "NB" 737+00 to Sta. "NB" 746+70, Lt.
Const. wire mesh slope protection - 101,260 sq. ft.
(Vinyl coated, black)

(9) Sta. "NB" 737+84.1 to Sta. "NB" 744+82.4, Lt.
Remove guardrail - 725'
Const. guardrail w/8' steel posts - 725' (Type 2A)
Const. anchor - 2 (Type 1)
Inst. end piece - 2 (Type C)
(See dwg. nos. RD415 & RD450)

(10) Sta. "NB" 737+73 to Sta. "NB" 745+37, Lt.
Remove fence - 798'
Const. type 2 fence - 798'
Connect to extg.
(See dwg. no. RD810)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517.
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

(1) Drainage Notes:
1) As-built drawings 3V-167 & 8V-127 showing perf. pipe in the NB lanes from approx. Sta. "NB" 725+00 to approx. Sta. "NB" 748+00. Avoid damaging perf. pipes during construction activities. Survey data indicates that the perf. pipes are deeper than 36" at the manholes shown.

(1) 2) If perf. pipes are disturbed during construction take care to minimize the disturbance & replace the damaged section with the corresponding size of drain pipe according to the contract Schedule of Items.

Legend
1. Check dam shown thus: (For details, see sht. 2B-7)
2. "NO WORK AREA" Shown THus:

No.	DATE	REVISIONS	BY
(1)	10-25-12	Revised note	JWC
(2)	11-19-12	Adjusted cut slope	JWC

REGISTERED PROFESSIONAL ENGINEER
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JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 48

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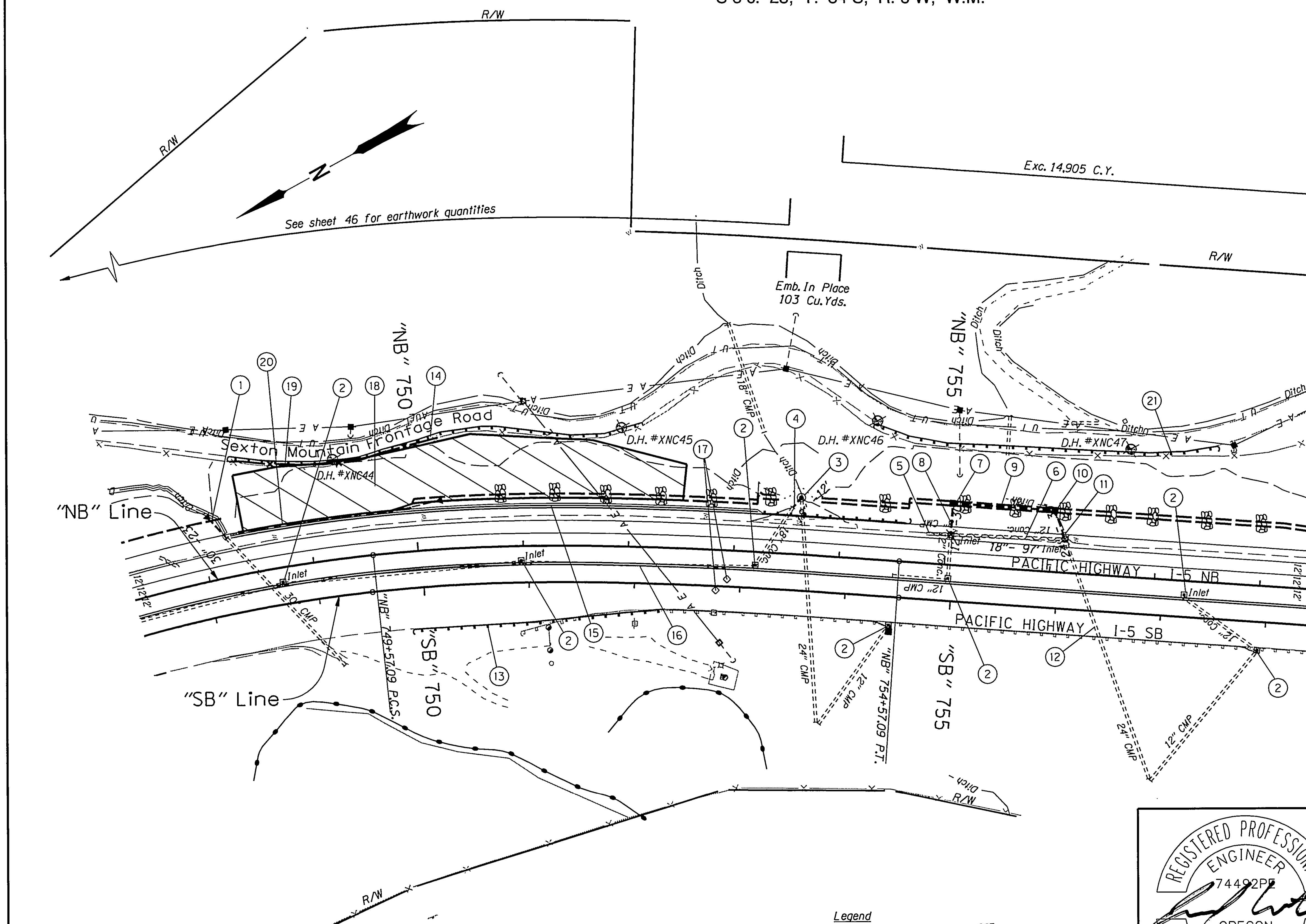
Sec. 23, T. 34 S, R. 6 W, W.M.

46V-003



Legend

Check dam shown thus:
(For details, see sht. 2B-7)

"No work area" shown thus:

NOTES:

1. *All dimensions shown are in feet unless otherwise noted.*
2. *Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517*
3. *Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.*

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JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 49

(1) Sta. "NB" 748+12.11, 56.22' Lt. to
Sta. "NB" 748+23.74, 36.62' Lt.
Extend 30" CMP - 23'
Const. paved end slope (1:3) - 47 sq. ft.
Connect to extg. storm pipe
(Subject to the In-water work period)
(For details see sht. 49B)
(See dwg. no. RD320)

(2) Adjust inlet - 7

(3) Sta. "NB" 753+60.93, 53.76' Lt.
Const. 60" manhole w/mod. ditch inlet
over extg. 24" CMP & 18" conc. pipe extension
(2) (For details, see sht. 2B-8 & 49B)

(4) Sta. "NB" 753+53.44, 43.80' Lt. to
Sta. "NB" 753+60.93, 53.76' Lt.
Extend extg. 18" conc. pipe - 12'
Remove extg. inlet
Connect to extg. pipe
(For details, see sht. 49B)

(5) Remove 6" PVC pipe - 50'

(6) Remove 12" conc. pipe - 107'

(7) Sta. "NB" 755+04.33, 58.20 Lt.
Const. Type B-SL inlet
(For details, see sht. 49B)
(See dwg. no. RD368)

(8) Sta. "NB" 755+04.27, 27.78' Lt. to
Sta. "NB" 755+04.33, 58.20' Lt.
Extend 12" conc. storm sew. - 30'
Connect to extg. pipe
Remove extg. inlet
(For details, see sht. 49B)

(9) Sta. "NB" 755+04.33, 58.20' Lt. to
Sta. "NB" 756+01.35, 58.20' Lt.
Inst. 18" storm sew. - 97'
5' depth
(For details, see sht. 49B)

(10) Sta. "NB" 756+01.35, 58.20' Lt.
Const. Type B-SL inlet
(For details, see sht. 49B)

(11) Sta. "NB" 756+01.35, 58.20' Lt. to
Sta. "NB" 756+13.21, 30.45' Lt.
Extend 24" CMP - 30'
Connect to existing pipe
Remove extg. inlet
(For details, see sht. 49C)

(1) (12) Sta. "NB" 756+13.21
Rehab. extg. 24" culvert with CIPP liner - 247'
Make spot repairs
(Subject to the In-water work period
or when completely dry.)

(13) Sta. "SB" 749+88.6 to Sta. "SB" 752+31.0, Rt.
Remove guardrail - 125'
Const. guardrail - 200' (Type 2A)
Const. guardrail terminal, non-flared
Test level 3
Connect to extg. guardrail
Inst. Type 4 (Alt. 2) delineators - 2

(14) Sta. "NB" 748+41.0 to Sta. "NB" 750+25.0, Lt.
Const. guardrail w/8' steel posts - 200' (Type 2A)
Const. anchor - 2 (Type 1)
Inst. end piece - 2 (Type C)
Inst. Type 4 (Alt. 2) delineators - 4

(15) Sta. "NB" 748+27.56 to Sta. "SB" 754+63.61, Lt.
Const. conc. shldr. barrier (pinned) w/
rock protection screen - 500'
Const. guardrail transition to barrier
Const. guardrail - 75.0' (Type 2A)
Const. guardrail - 12.5' (Type 3)
Const. guardrail terminal, non-flared
Test level 3
Inst. Type 5 delineators - 11
Inst. Type 4 (Alt. 2) delineator

(16) See sht. 38, note 8

(17) Const. pavement sensor opening
(For details, see sht. ITS-1158)

(18) Sta. "NB" 748+40.0 to Sta. "NB"752+50.0, Lt.
Const. wire mesh slope protection - 37,815 sq. ft.
(vinyl coated, black)

(19) Sta. "NB" 748+41.0 to Sta. "NB"750+25.0, Lt.
Remove fence - 200'
Const. type 2 fence - 200'
Connect to extg.

(20) Sta. "NB" 748+27.6 to Sta. "NB" 749+80.0
Inst. 8" subsurface drain w/ outlet protection block - 157'
(For details, see 2B-6)

(21) Sta. "NB" 754+28.0 to Sta. "NB" 757+51.0 Lt.
Const. guardrail w/8' steel posts - 325' (Type 2A)
Const. anchor - 2 (Type 1)
Inst. end piece - 2 (Type C)
Inst. Type 4 (Alt. 2) delineators - 4

No.	DATE	REVISIONS	BY
(1)	10-19-12	Revised note composition	JWC
(2)	10-22-12	Revised note	JWC

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74482PE
OREGON
JAN. 13, 2009
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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

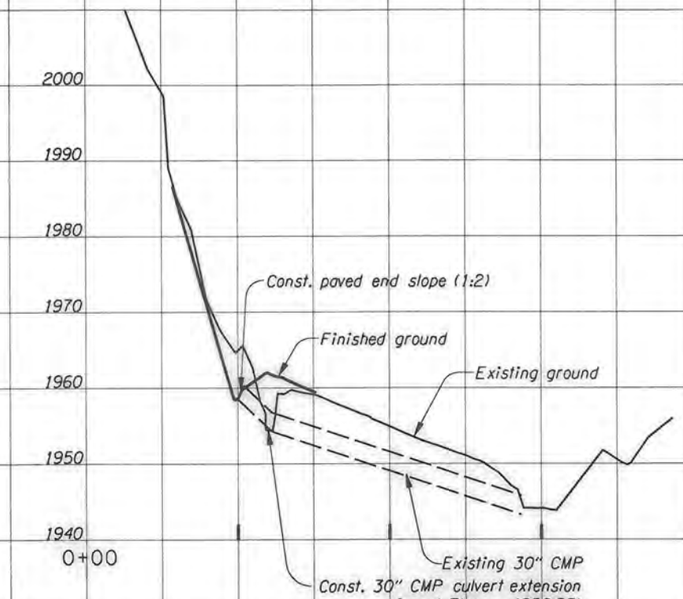
I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

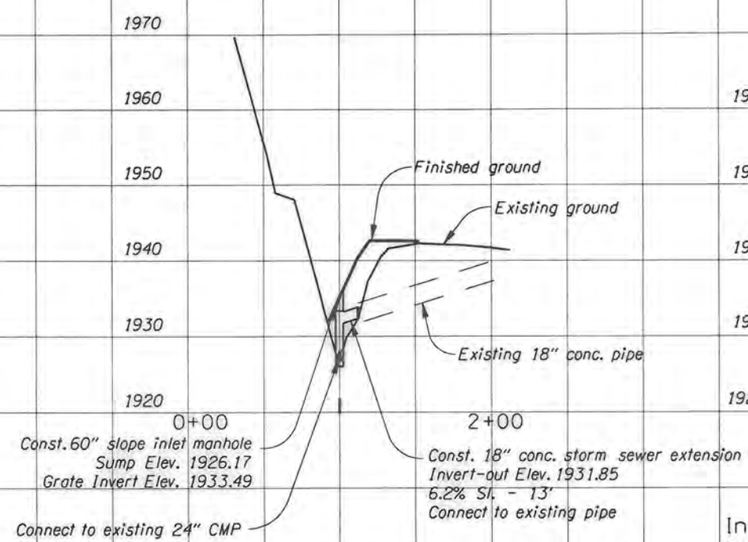
CONSTRUCTION NOTES

SHEET NO. 49A

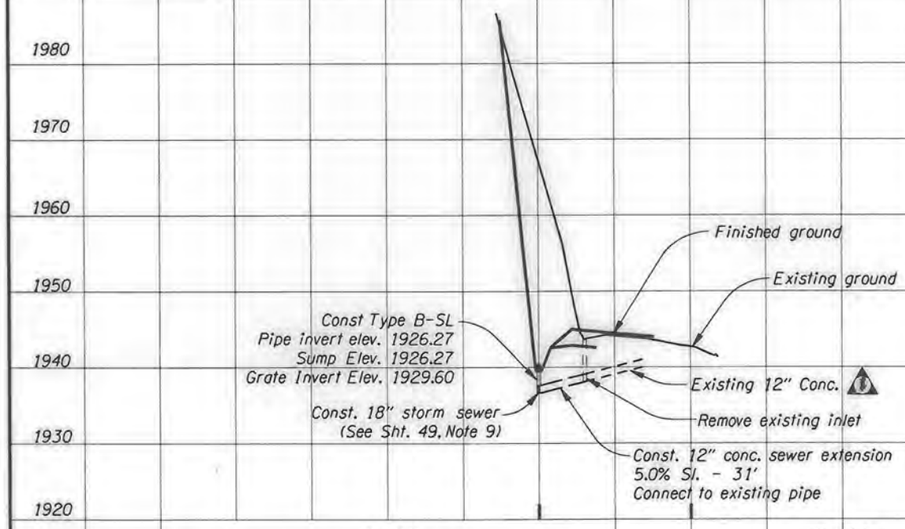
46V-003



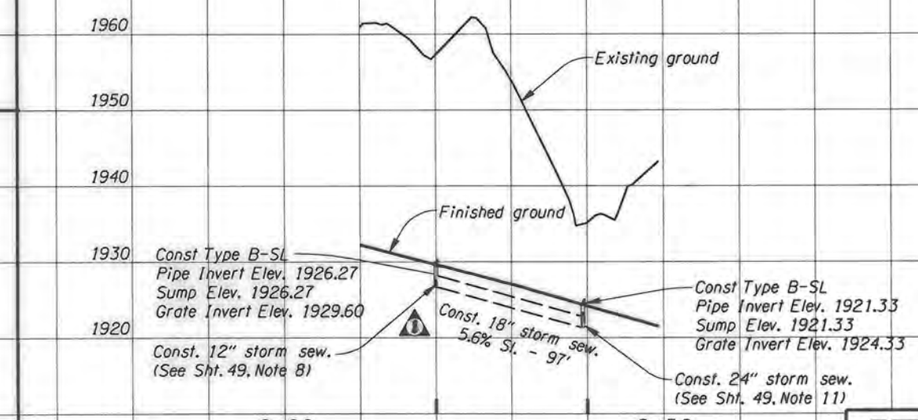
Invert-in of proposed pipe @
Sta. "NB"748+23.74, 36.62 Lt.
See sht. 49, note 1, Profile
shown @ pipe ℄



Invert -in of proposed pipe @
Station "NB" 753+53.44, 43.80 Lt.
See sht. 49, note 4
Profile shown @ pipe ℄



0+00
Invert-in of proposed pipe @
Sta. "NB"755+04.27, 27.78 Lt.
See sht. 49, note 8
Profile shown @ pipe ℄



Invert of proposed pipe @
Sta. "NB"755+04.33, 58.20' Lt.
See sht. 49, note 9
Profile shown @ pipe ℄

No.	DATE	REVISIONS	BY
1	11-26-12	Changed material description	JWC

REGISTERED PROFESSIONAL ENGINEER
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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

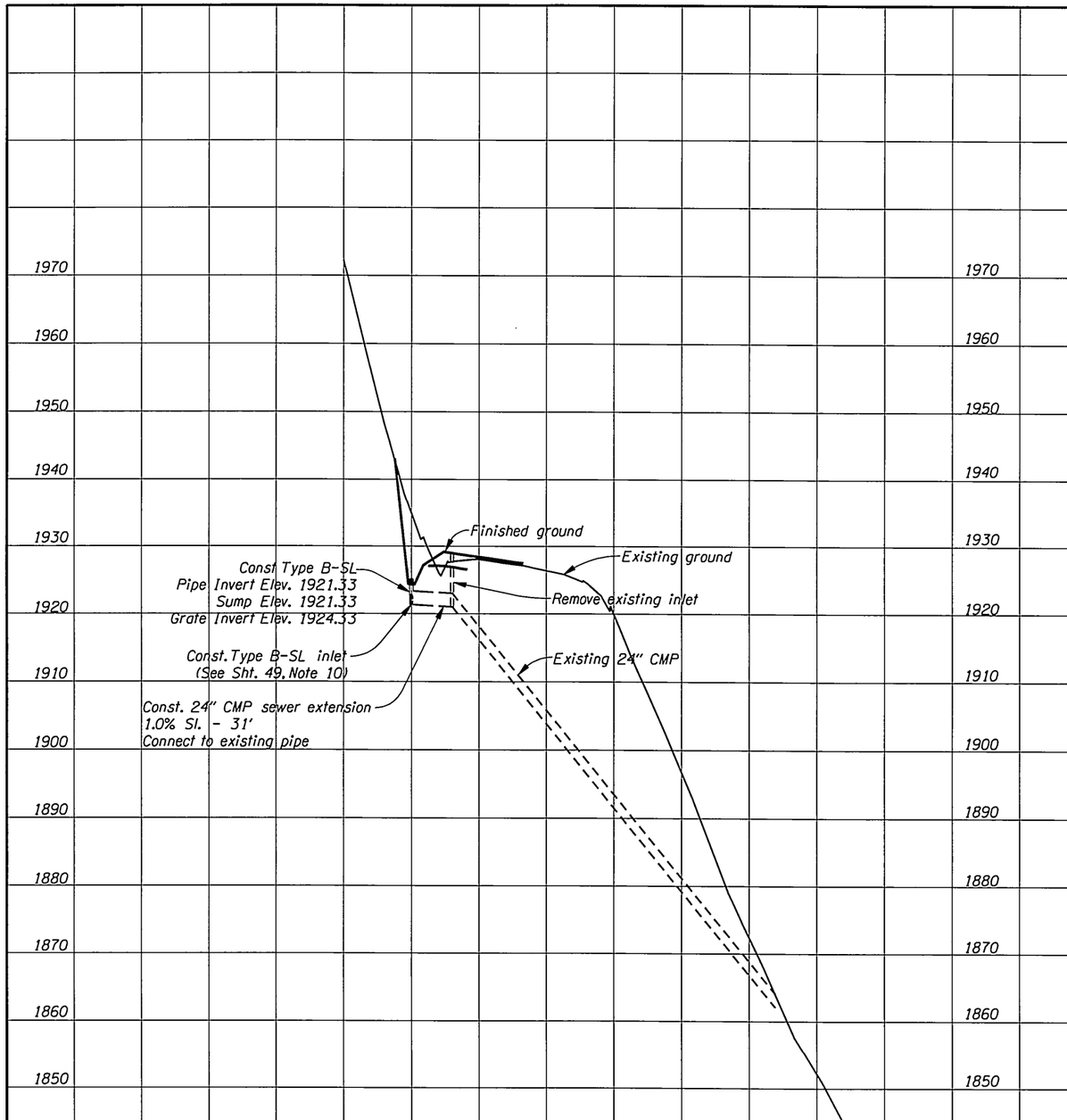
I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 49B

46V-003



Invert-in of proposed pipe @
Sta. "NB"756+01.35, 58.20' Lt.
See sht. 49, note 11
Profile shown @ pipe ℄

REGISTERED PROFESSIONAL ENGINEER
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JAN. 13, 2009
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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

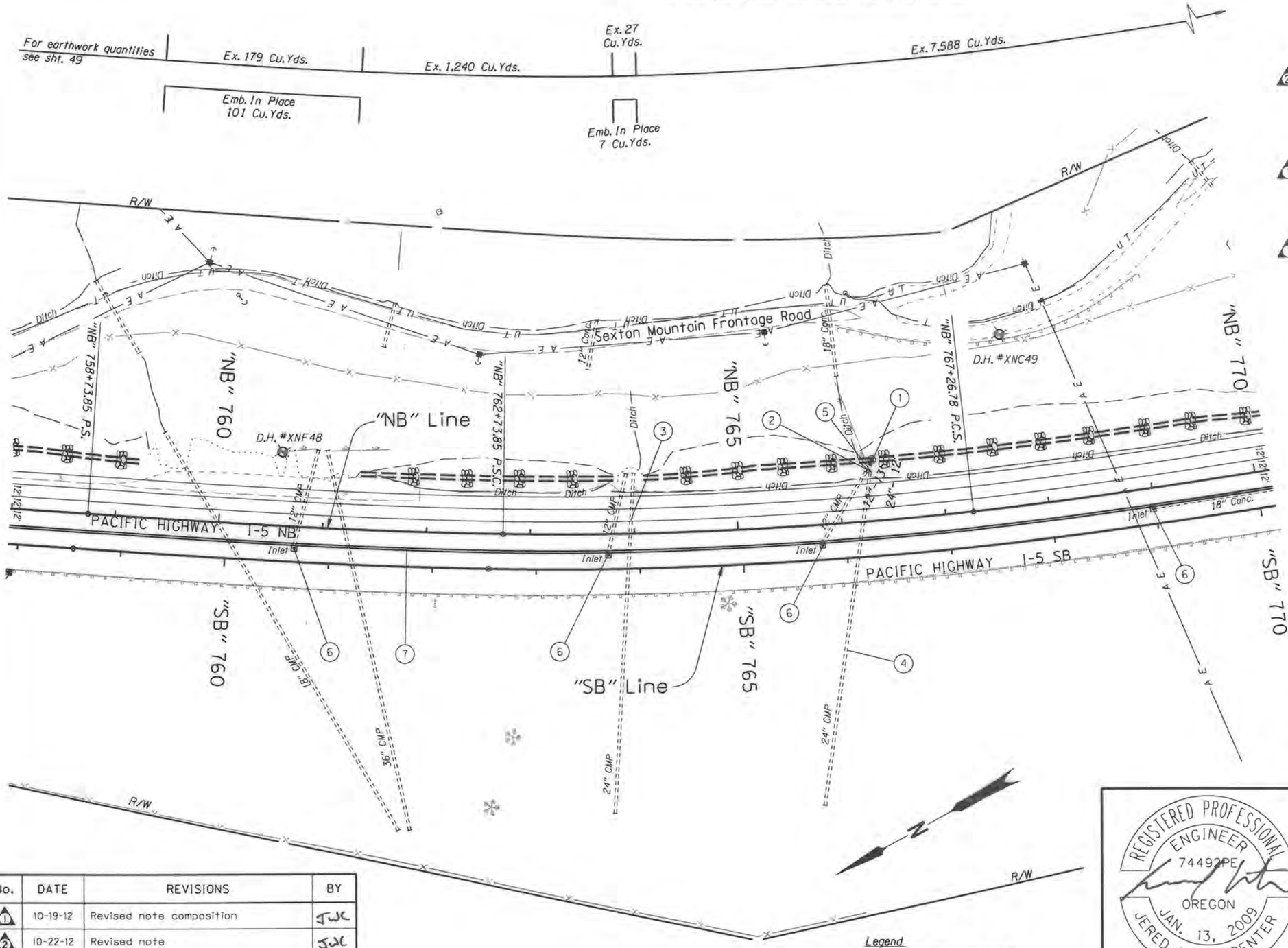
Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 49C

Sec. 22 & 23, T. 34 S, R. 6 W, W.M.

46V-003



1. Sta. "NB" 766+33.82, 58.55' Lt.
   Const. 60" manhole w/mod. ditch inlet
   Connect to 12" & 24" pipe extensions
   (For details, see sht. 2B-8 & 50A)

2. Sta. "NB" 766+27.09, 47.29 Lt. to
   "NB" 766+33.82, 58.55' Lt.
   extend 12" CMP - 13'
   Connect to existing pipe

1. Sta. "NB" 764+00.56
   Rehab. extg. 24" culvert with CIPP liner - 340'
   Make spot repairs
   (Subject to the In-water work period or when completely dry.)

1. Sta. "NB" 766+31.18
   Rehab. extg. 24" culvert with CIPP liner- 330'
   Make spot repairs
   (Subject to the In-water work period or when completely dry.)

5. Sta. "NB" 766+33.82, 58.55' Lt. to
   Sta. "NB" 766+31.18, 47.02' Lt.
   Extend 24" conc. pipe - 12'
   Connect to extg. pipe

6. Adjust inlet - 4

7. See sht. 38, note 8

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

No.	DATE	REVISIONS	BY
1	10-19-12	Revised note composition	JWC
2	10-22-12	Revised note	JWC

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

REGISTERED PROFESSIONAL ENGINEER
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JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 50

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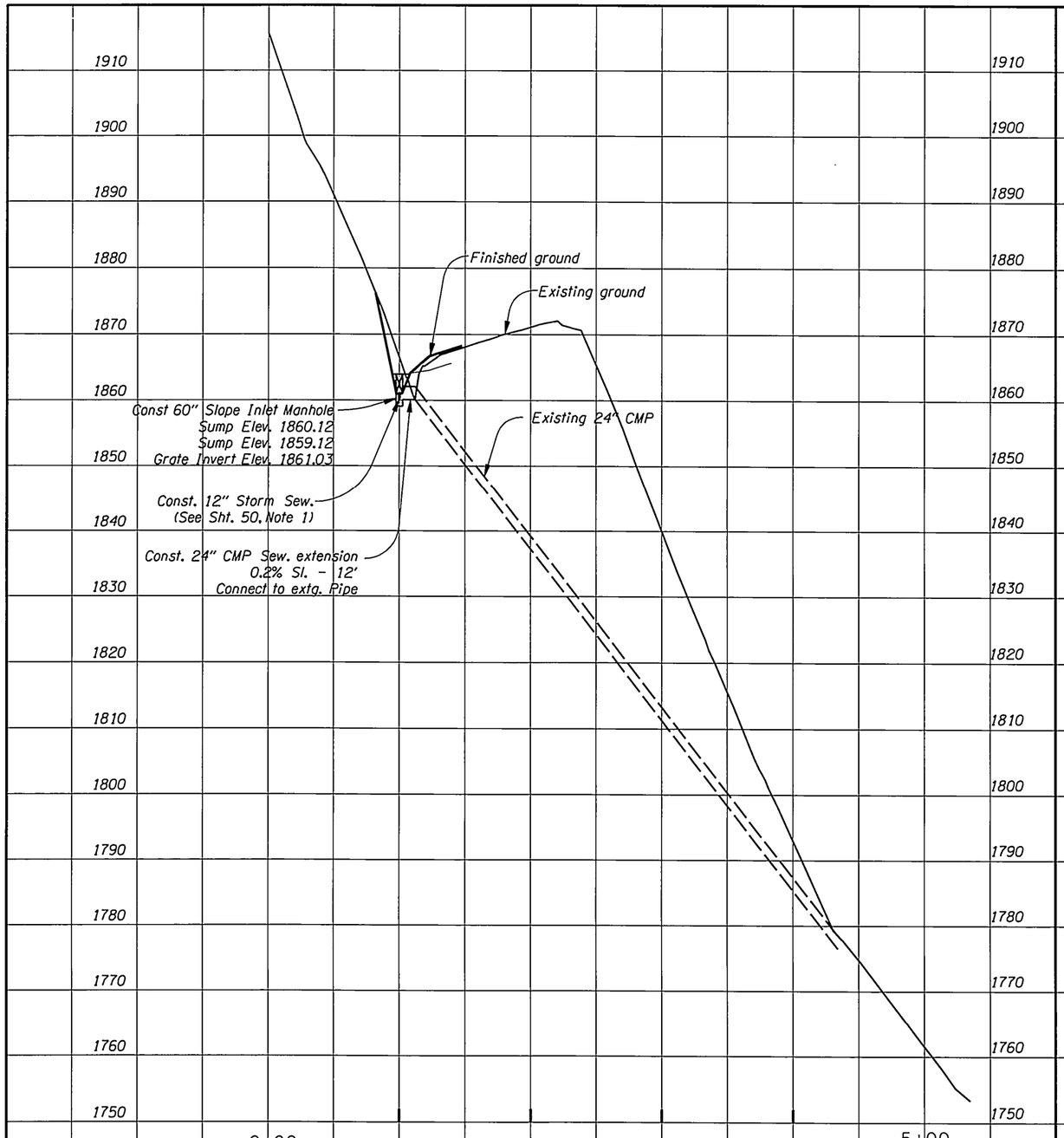
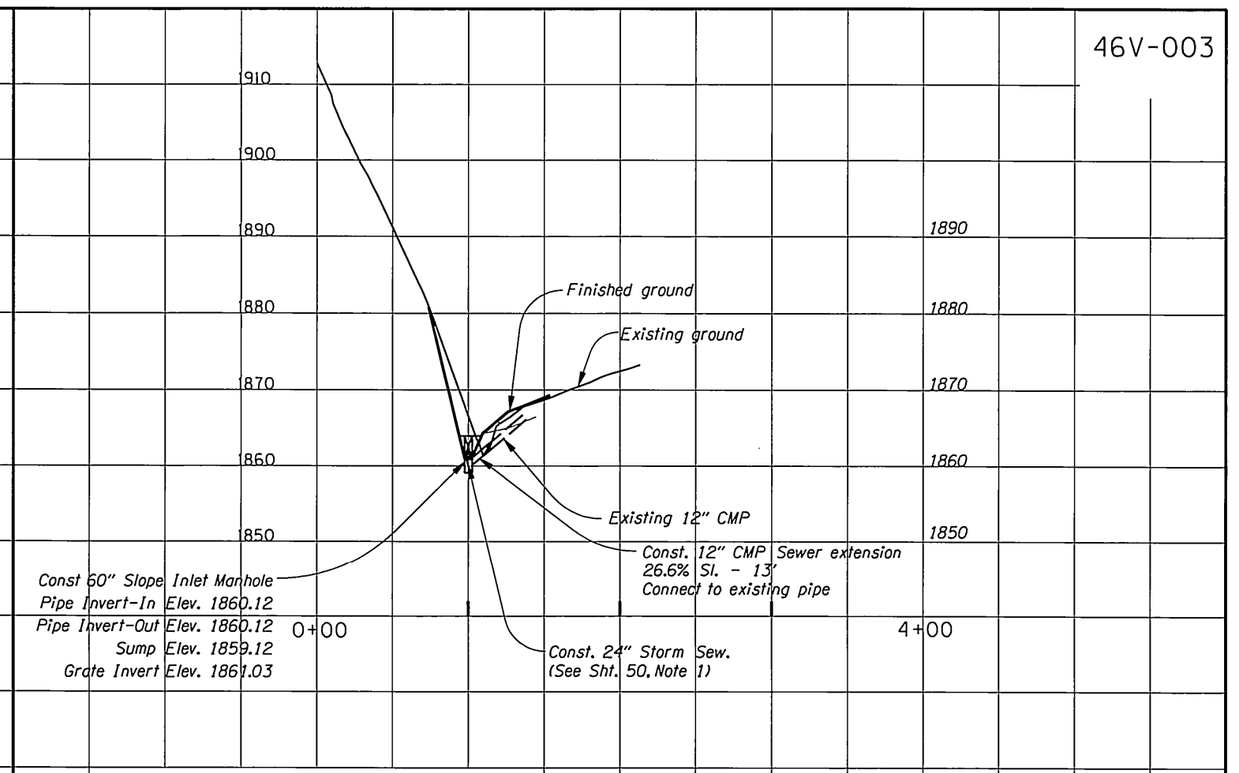
14200_BL - 002

46V-003



Invert-in of proposed pipe @
Sta. "NB"766+31.18, 47.02 Lt.
See sht. 50, note 5
Profile shown @ pipe ℄



Invert-in of proposed pipe @
Sta. "NB"766+27.09, 47.29 Lt.
See sht. 50, note 2
Profile shown @ pipe ℄

REGISTERED PROFESSIONAL ENGINEER
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OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

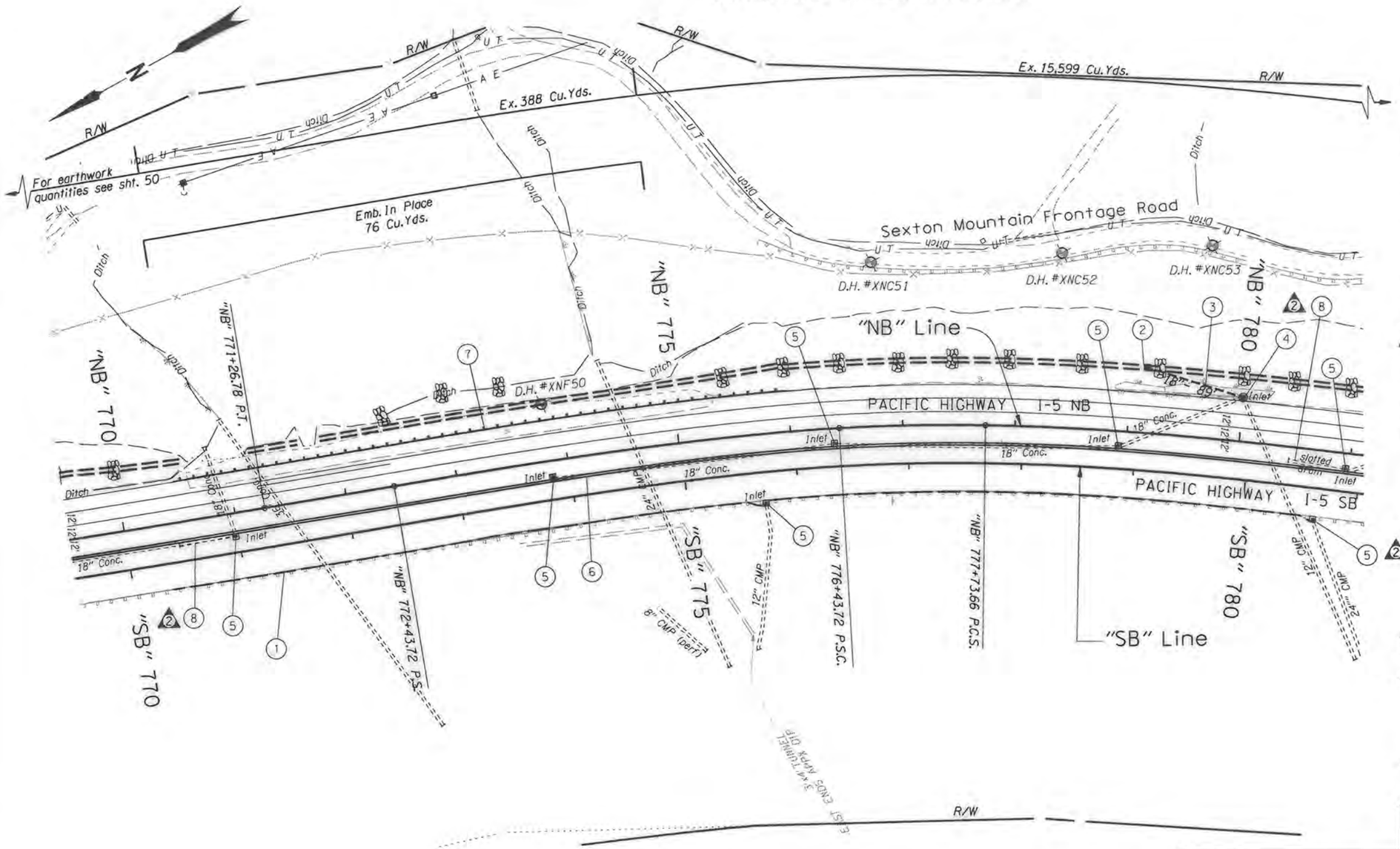
Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 50A

Sec. 22 & 27 T. 34 S, R. 6 W, W.M.

46V-003



(1) Sta. "SB" 770+36.5 to Sta. "SB" 780+66.5, Rt.
Remove extg. asphalt curb - 1,030'
Const. drainage curb - 1,030'

(2) Sta. "NB" 779+13.59, 58.20 Lt.
Const. type B-SL inlet
(For details, see sht. 51A)

(3) Sta. "NB" 779+13.59, 58.20' Lt. to
Sta. "NB" 779+99.67, 39.20' Lt.
Const. 18" storm sew. - 89'
5' depth
(For details, see sht. 51A)

(4) Sta. "NB" 779+99.67, 39.20 Lt.
Const. 60" storm sew. manhole
over 12" storm sew. &
24" conc. pipe
(1) (For details, see sht. 51A)

(5) Adjust inlet - 7

(6) See sht. 38, note 8

(7) Sta. "NB" 770+50 to Sta. "NB" 776+00 Lt.
Const. guardrail - 512.5 (Type 2A)
Const. anchor (Type 1 mod.)
Const. guardrail terminal, non-Flared
Test level 3
Inst. end piece (Type B)
Inst. Type 4 (Alt. 2) delineators - 4

(2) (8) Slotted drain inlet
(For details, see sht. 2B-16)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5'. if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

No.	DATE	REVISIONS	BY
(1)	10-22-12	Revised note	JWC
(2)	11-26-12	Added note	JWC

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 51

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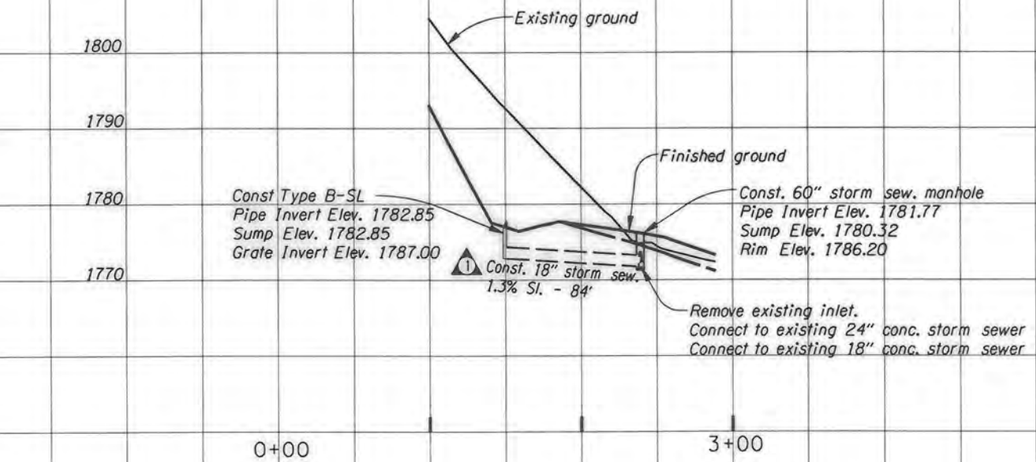
1:1200 BL - 003

46V-003



Invert-in of proposed pipe @
Sta. "NB" 779+14.71, 57.94 Lt.
See sht. 51, note 3
Profile shown @ pipe ℄

No.	DATE	REVISIONS	BY
1	11-26-12	Changed material description	JWL

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

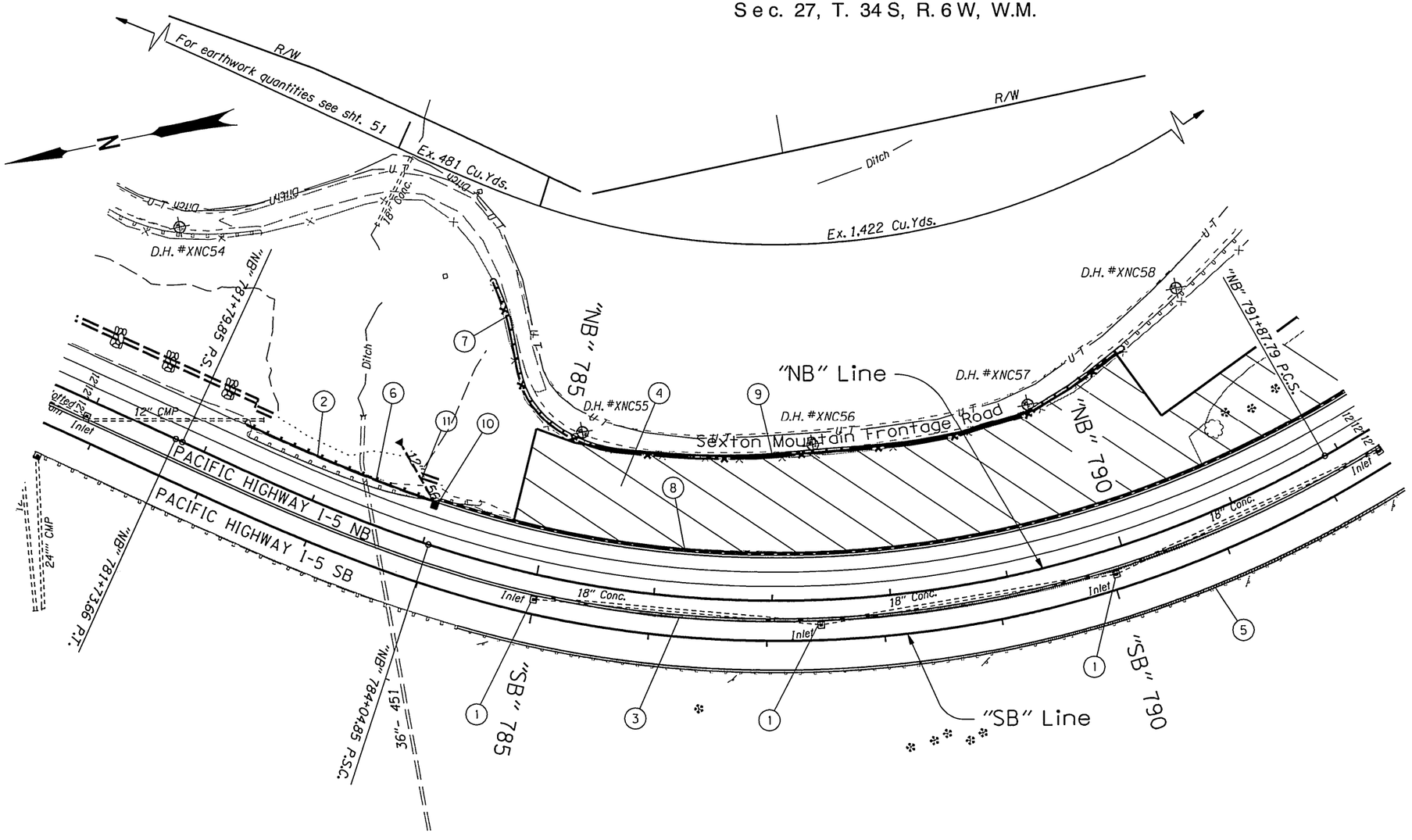
SHEET NO. 51A

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_south_LKC.PL6 :: Default 11/26/2012 1:35:42 PM hwye32v

51A 1:1200_BL - 019

Sec. 27, T. 34 S, R. 6 W, W.M.

46V-003



(1) Adjust inlets - 3

(2) Sta. "NB" 782+23.5 to Sta. "NB" 784+02.9, Lt.
Const. drainage curb - 176'

(3) See sht. 38, note 8

(4) Sta. "NB" 784+70.0 to Sta. "NB"793+50.8, Lt.
Const. wire mesh slope protection - 107,829 sq. ft.
(Vinyl coated, black)

(5) Sta. "SB" 784+24.32 to Sta. "SB"795+04.76, Rt.
Remove guardrail - 1,115'
const. tall conc. barrier (Pinned) - 1,087.5'
Const. guardrail transition to tall barrier
Const. guardrail connection to tall barrier
Const. guardrail - 12.5' (Type 3)
Inst. Type 5 delineators - 23
(See dwg. nos. RD410, RD570, BR236 & Sht. 2B-16)

(6) Sta. "NB" 782+23.88 to Sta. "NB"784+02.92, Lt.
Const. guardrail - 175.0' (type 2A)
Const. anchor (type 1 mod.)
Inst. end piece (type B)
Const. guardrail connection to barrier
Inst. Type 4 (Alt. 2) delineators - 2

(7) Sta. "NB" 783+86.0 to Sta. "NB"790+61, Lt.
Remove guardrail - 637.5'
Const. guardrail w/8' steel posts - 637.5' (type 2A)
Const. anchor - 2 (type 1)
Inst. end piece (type C)
Connect to extg. guardrail
Inst. Type 4 (Alt. 2) delineators - 7

(8) Sta. "NB" 784+02.92 to Sta. "NB"793+50.78, Lt.
Const. conc. shldr. barrier w/rock protection screen (pinned) - 912.5'
Inst. Type 5 delineators - 19
Const. 8" subsurface drain w/subsurface drain outlet - 909'
Inst. cleanout access in middle of subsurface drain
(For details, see 2B-6, 2B-17)

(9) Sta. "NB" 783+86.0 to Sta. "NB"790+61.0, Lt.
Remove fence - 637.5'
Const. type 2 fence - 637.5'
Connect to extg.

(10) Sta. "NB" 783+99.54, 34.43' Lt.
Const. type G-2 inlet
(For details, see sht. 52A)

(11) Sta. "NB" 783+99.54, 34.43' Lt. to
Sta. "NB" 783+55.36, 70.76' Lt.
Const. 12" storm sew. - 56'
5' depth
Const. paved end slope - 23 sq. ft.
(For details, see sht. 52A)

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

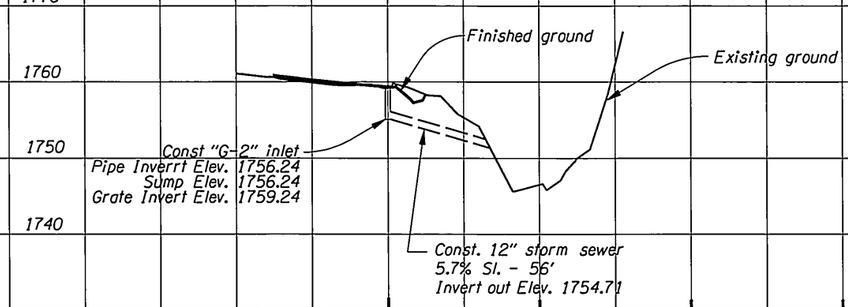
I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 52

46V-003



Invert-in of proposed pipe @
Sta. "NB"783+99.54, 34.43' Lt.
See sht. 52, note 11
Profile shown @ pipe ℄

REGISTERED PROFESSIONAL ENGINEER
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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

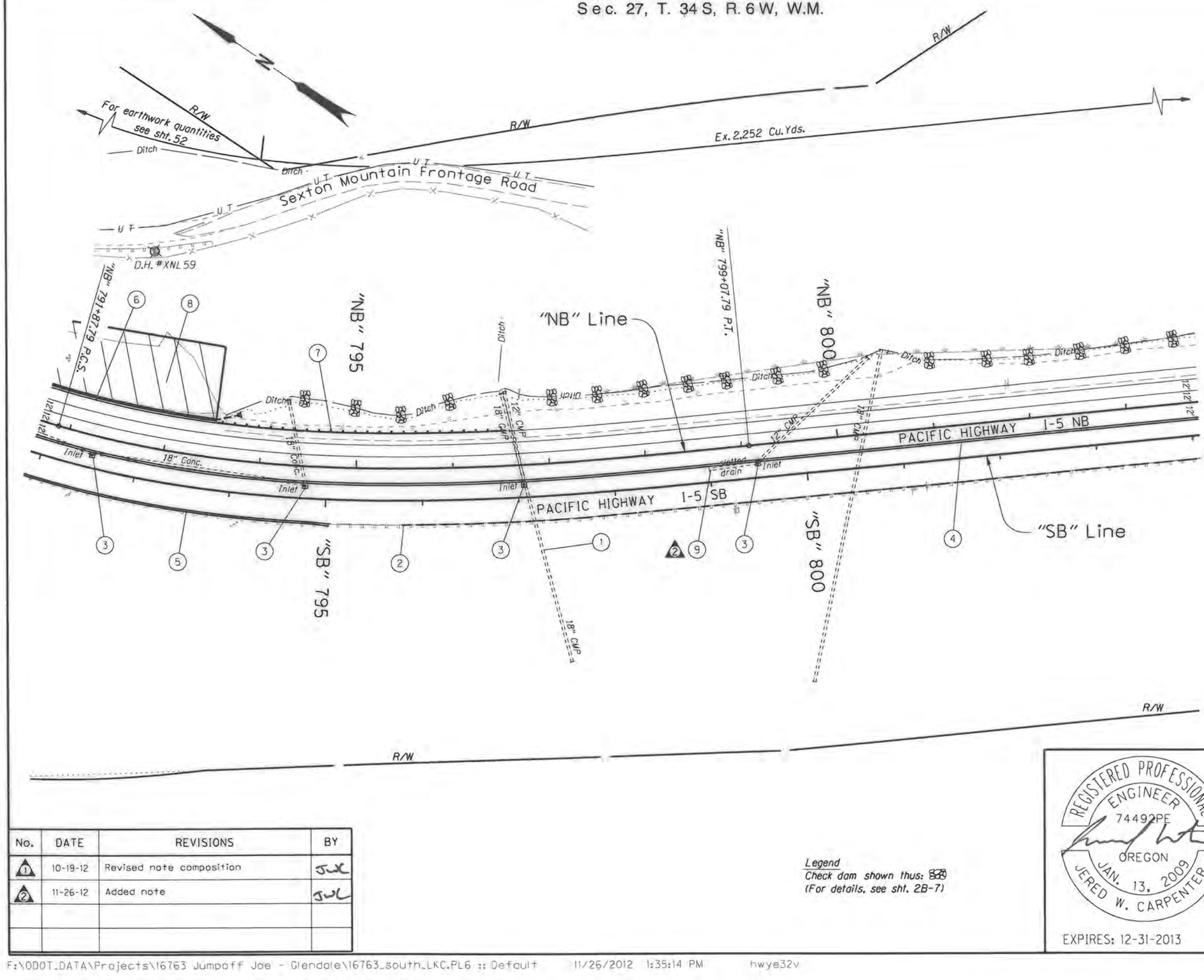
Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 52A

Sec. 27, T. 34 S, R. 6 W, W.M.

46V-003



(1) Sta. "NB" 796+54.16
Rehab. exlg. 18" culvert with CIPP liner - 295'
Make spot repairs
(Not subject to the In-water work period)

(2) Sta. "SB" 795+81.5 to Sta. "SB" 805+97.5 Rt.
Remove asphalt curb - 1,016'
Const. conc. curb - 1,016'

(3) Adjust inlet - 4

(4) See sht. 38, note 8

(5) See sht. 52, note 5

(6) See sht. 52, note 8

(7) Sta. "NB" 793+50.78 to Sta. "NB"796+50.37, Lt.
Const. guardrail transition to barrier
Const. guardrail - 12.5' (type 3)
Const. guardrail - 225' (type 2A)
Const. guardrail terminal, non-flared
Test level 3
Inst. Type 4 (Alt. 2) delineators - 2

(8) See sht. 52, note 4

(9) Slotted drain inlet
(For details, see sht. 2B-16)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

No.	DATE	REVISIONS	BY
1	10-19-12	Revised note composition	JWL
2	11-26-12	Added note	JWL

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

REGISTERED PROFESSIONAL ENGINEER
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JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

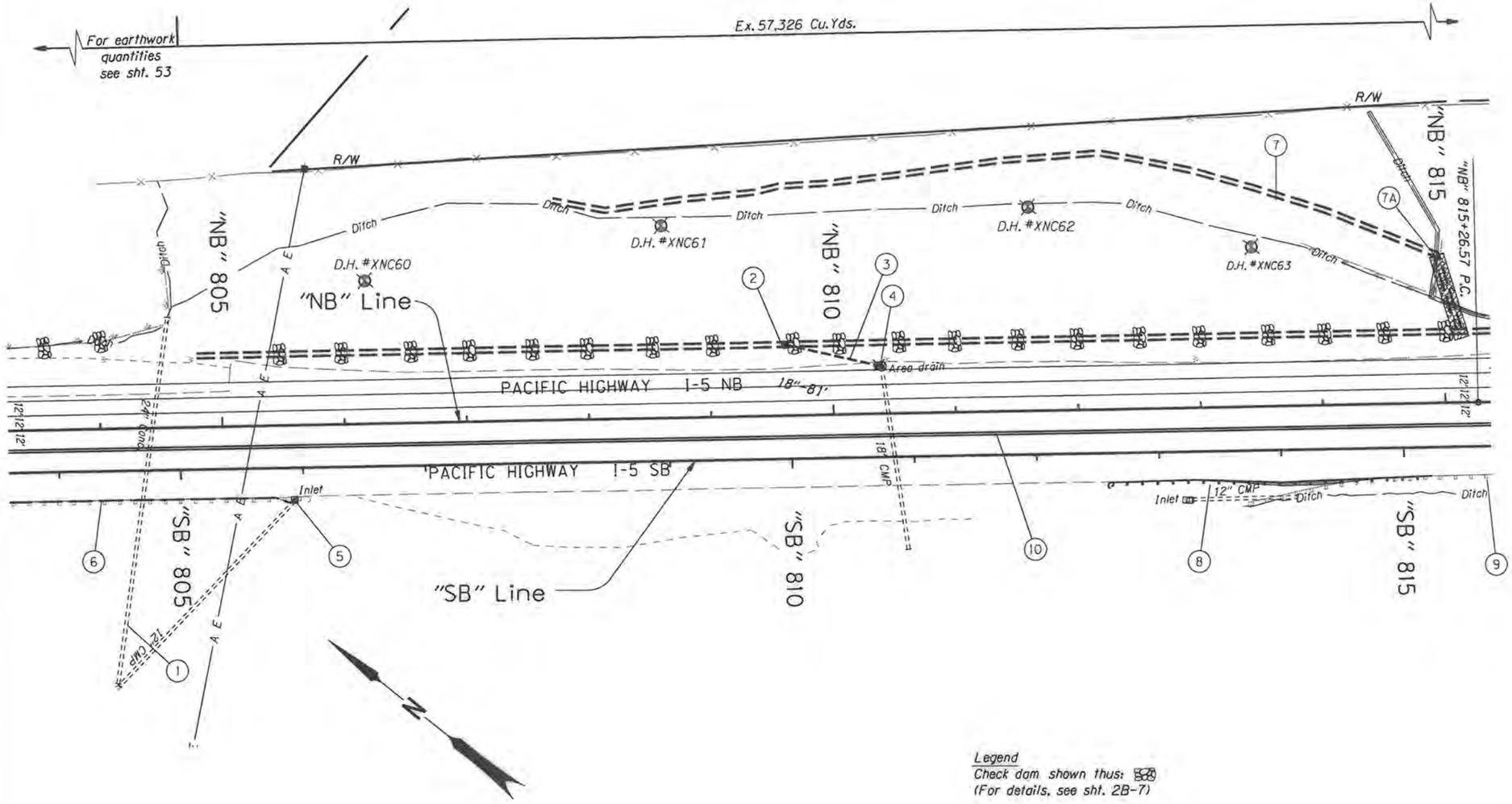
SHEET NO. 53

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_south_LKC.PL6 :: Default 11/26/2012 1:35:14 PM hwye32v

1:1200 BL - 005

Sec. 27 & 26, T. 34 S, R. 6 W, W.M.

46V-003



(1) Sta. "NB" 804+56.60
Rehab. extg. 24" culvert with CIPP liner - 307'
Make spot repairs
(Subject to the In-water work period or when completely dry.)

(2) Sta. "NB" 809+60.72, 58.85' Lt.
Const. Type B-SL inlet
(For details, see sht. 54A)

(3) Sta. "NB" 809+60.72, 58.85' Lt. to Sta. "NB" 810+39.35, 39.51' Lt.
Const. 18" storm sew. - 81'
5' depth
(For details, see sht. 54A)

(4) Sta. "NB" 810+39.35, 39.51' Lt.
Const. std. storm sew. manhole over extg. sew.
(Connect to 18" storm sew & existing 18" CMP)
(For details, see sht. 54A)

(5) Adjust inlet

(6) See sht. 53, note 2

(7) Sta. "NB" 807+72.0 to Sta. "NB" 815+00.0, Lt.
Const. drainage ditch - 554 C.Y.
(For details, see sht. 2B-3)

(7A) Const. slope protection (Class 50 riprap - 40 C.Y.)
(For details, see sht. 2B-7)

(8) Sta. "SB" 812+63.0 to Sta. "SB" 815+25.5, Rt.
Remove guardrail - 150'
Const. guardrail - 225' (Type 2A)
Const. guardrail terminal, non-flared
Test level 3
Connect to extg.
Inst. Type 4 (Alt. 2) delineators - 2
Remove AC surfacing - 31 sq. yds.

(9) Sta. "SB" 815+25.5 to Sta. "SB" 828+63.0, Rt.
Remove washers -214

(10) See sht. 38, note 8

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5'. if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

No.	DATE	REVISIONS	BY
1	10-19-12	Revised note composition	JWL

REGISTERED PROFESSIONAL ENGINEER
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OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

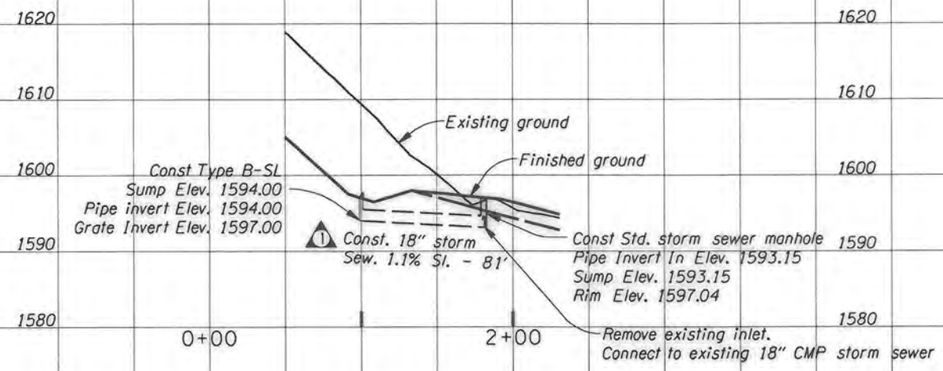
I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 54

46V-003



Invert-in of proposed pipe @
Sta. "NB"809+61.86, 58.57 Lt.
See sht. 54, note 3
Profile shown @ pipe ℄

No.	DATE	REVISIONS	BY
1	11-26-12	Changed material description	JWC

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

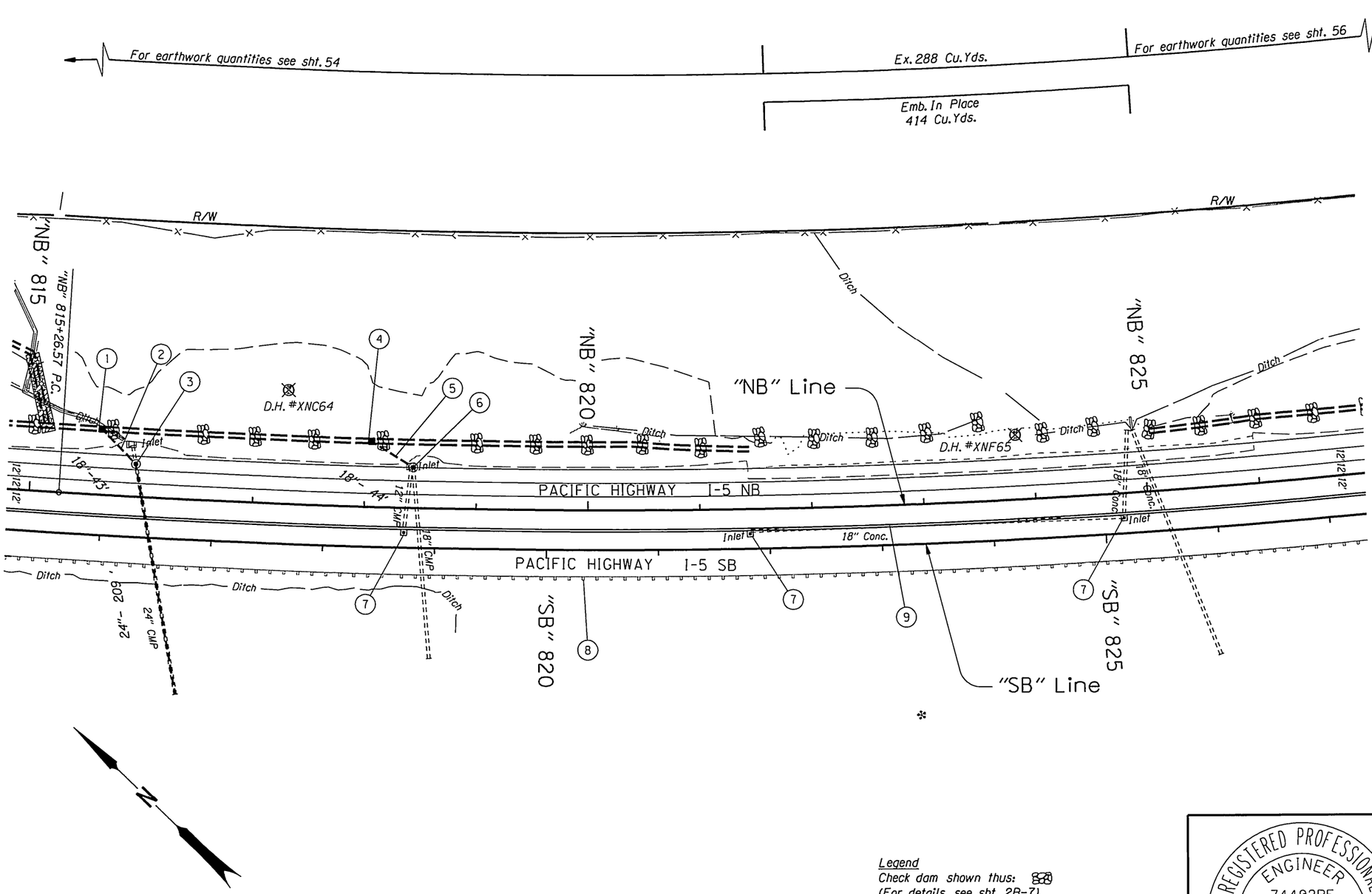
SHEET NO. 54A

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_south_LKC.PL6 :: Default 11/26/2012 1:35:55 PM hwye32v

54A 1:1200 BL - 021

Sec. 26, T. 34 S, R. 6 W, W.M.

46V-003



Legend
Check dam shown thus:
(For details, see sht. 2B-7)

(1) Sta. "NB" 815+61.50, 59.46' Lt.
Const. Type B-SL inlet
(For details, see sht. 55A)

(2) Sta. "NB" 815+61.50, 59.46 Lt. to
"NB" 815+93.59, 30.23' Lt.
Const. 18" storm sew. - 43'
10' depth
(For details, see sht. 55A)

(3) Sta. "NB" 815+93.59, 30.23' Lt.
Remove extg. inlet
Remove extg. pipe - 17'
Const. std. storm sew. manhole over extg. sew.
(Connect to extg. 24" CMP &
18" storm sew.)
(For details, see sht. 55A)

(4) Sta. "NB" 818+04.80, 59.24' Lt.
Const. Type B-SL inlet
(For details, see sht. 55A)

(5) Sta. "NB" 818+04.80, 59.24' Lt. to
"NB" 818+42.88, 37.06' Lt.
Const. 18" storm sew. - 44'
5' depth
(For details, see sht. 55A)

(6) Sta. "NB" 818+42.88, 37.06' Lt.
Remove extg. inlet
Const. std. storm sew. manhole over extg. sew.
(Connect to extg. 12" & 18" CMP
Connect to 18" storm sew.)
(For details, see sht. 55A)

(7) Adjust inlet - 3

(8) See sht. 54, note 9

(9) See sht. 38, note 8

NOTES:
1. All dimensions shown are in feet unless otherwise noted.

2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517

3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

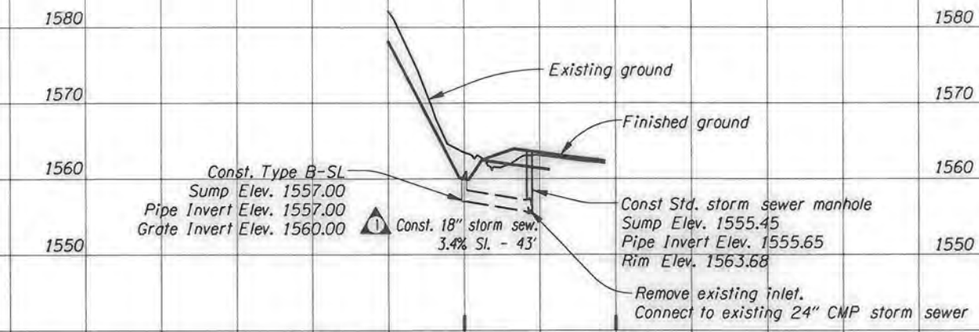
I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

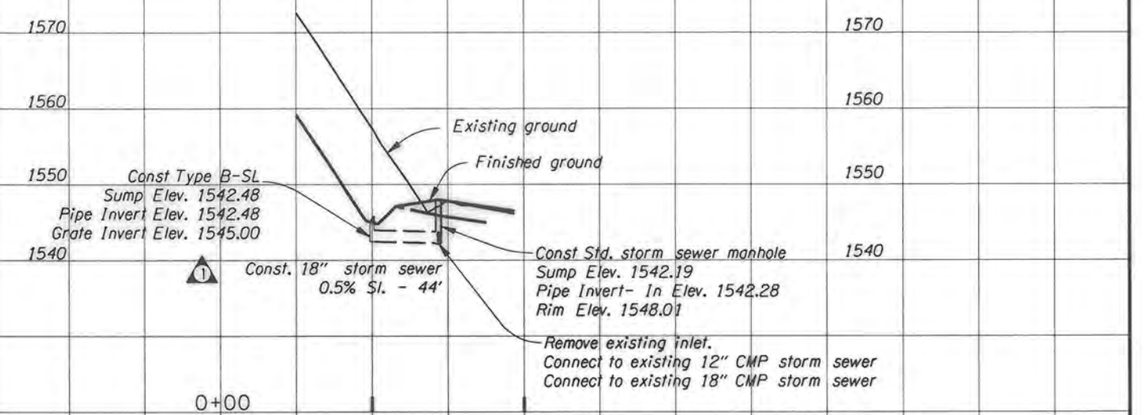
GENERAL CONSTRUCTION

SHEET NO. 55

46V-003



Invert-in of proposed pipe @
Sta. "NB"815+61.50, 59.46 Lt.
See sht. 55, note 2
Profile shown @ pipe ℄



Invert-in of proposed pipe @
Sta. "NB"818+04.80, 59.24' Lt.
See sht. 55, note 5
Profile shown @ pipe ℄

No.	DATE	REVISIONS	BY
1	11-26-12	Changed material description	

REGISTERED PROFESSIONAL ENGINEER
74492PE
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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

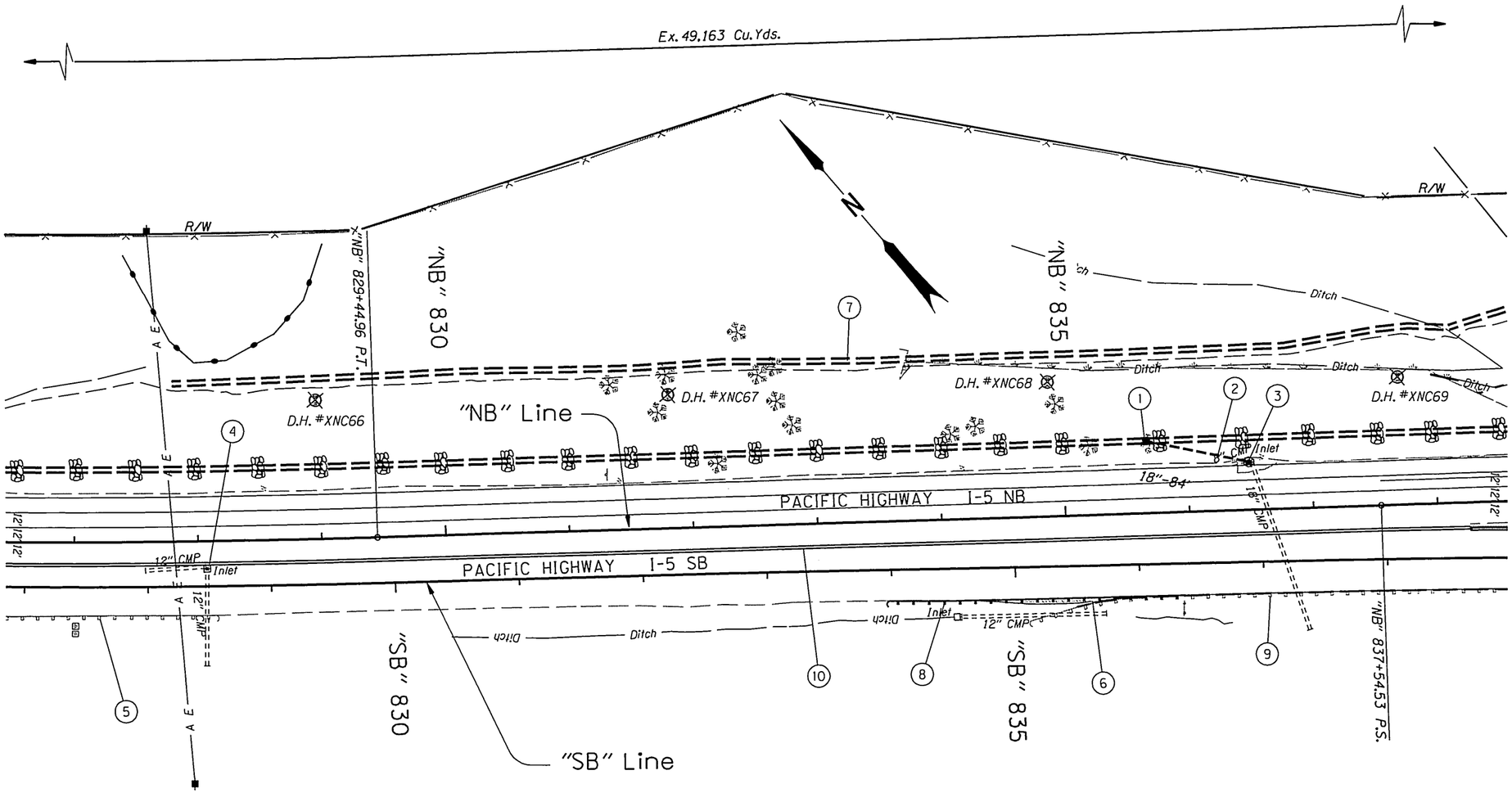
PROFILE

SHEET NO. 55A

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_south_LKC.PL6 :: Default 11/26/2012 1:36:07 PM hwye32v

55A 1:1200 BL - 022

Sec. 26, T. 34 S, R. 6 W, W.M.



Legend
Check dam shown thus:
(For details, see sht. 2B-7)

"No Work Zone" shown thus:

(1) Sta. "NB"835+66.71, 58.20' Lt.
Const. Type B-SL inlet
(For details, see sht. 56A)

(2) Sta. "NB" 835+66.71, 58.20' Lt. to
Sta. "NB" 836+48.53, 38.79' Lt.
Const. 18" storm sew. - 84'
5' depth
(For details, see sht. 56A)

(3) Sta. 836+48.53, 38.79'Lt.
Remove extg. inlet
Const. std. storm sew. manhole over extg. sew.
(Connect to extg. 8" & 18" CMP
(Connect to 18" storm sew.)
(For details, see sht. 56A)

(4) Adjust inlet

(5) See sht. 54, note 9

(6) Sta. "SB" 835+52.0 to Sta. "SB" 845+44.0, Rt.
Remove extg. drainage curb - 992'
Const. drainage curb - 992'

(7) Sta. "NB" 827+80.0 to Sta. "NB" 840+02.0, Lt.
Const. drainage ditch - 920 C.Y.
(For details, see sht. 2B-3)

(8) Sta. "SB" 834+02 to Sta. "SB" 836+40, Rt.
Remove guardrail - 125'
Const. guardrail - 200' (Type 2A)
Const. guardrail terminal, non-flared
Test level 3
Connect to extg. guardrail
Inst. Type 4 (Alt. 2) delineators - 2
Remove AC surfacing - 41 sq. yds.

(9) Sta. "SB" 836+39.5 to Sta. "SB" 845+39.5, Rt.
Remove washers -144

(10) See sht. 38, note 8
(Pin barrier from Sta. "SB" 838+67 to
Sta. "SB" 866+77)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.

2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517

3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

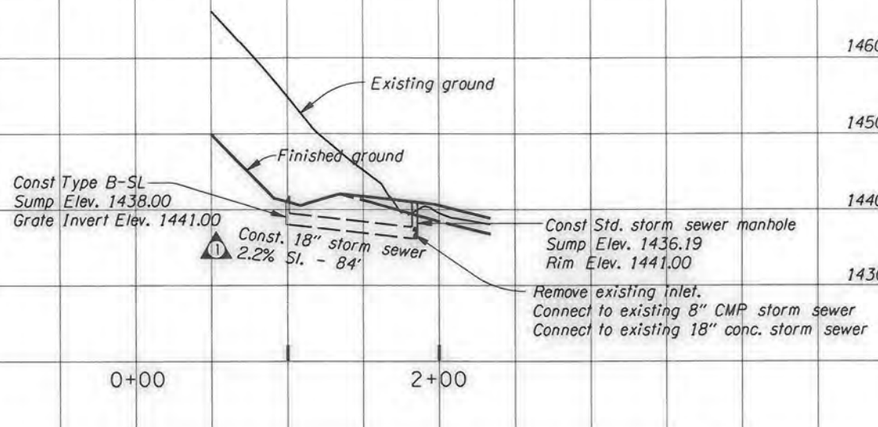
I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 56

46V-003



Invert-in of proposed pipe @
Sta. "NB"835+66.71, 58.20' Lt.
See sht. 56, note 2
Profile shown @ pipe ℄

No.	DATE	REVISIONS	BY
1	11-26-12	Changed material description	JWC

REGISTERED PROFESSIONAL ENGINEER
14492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

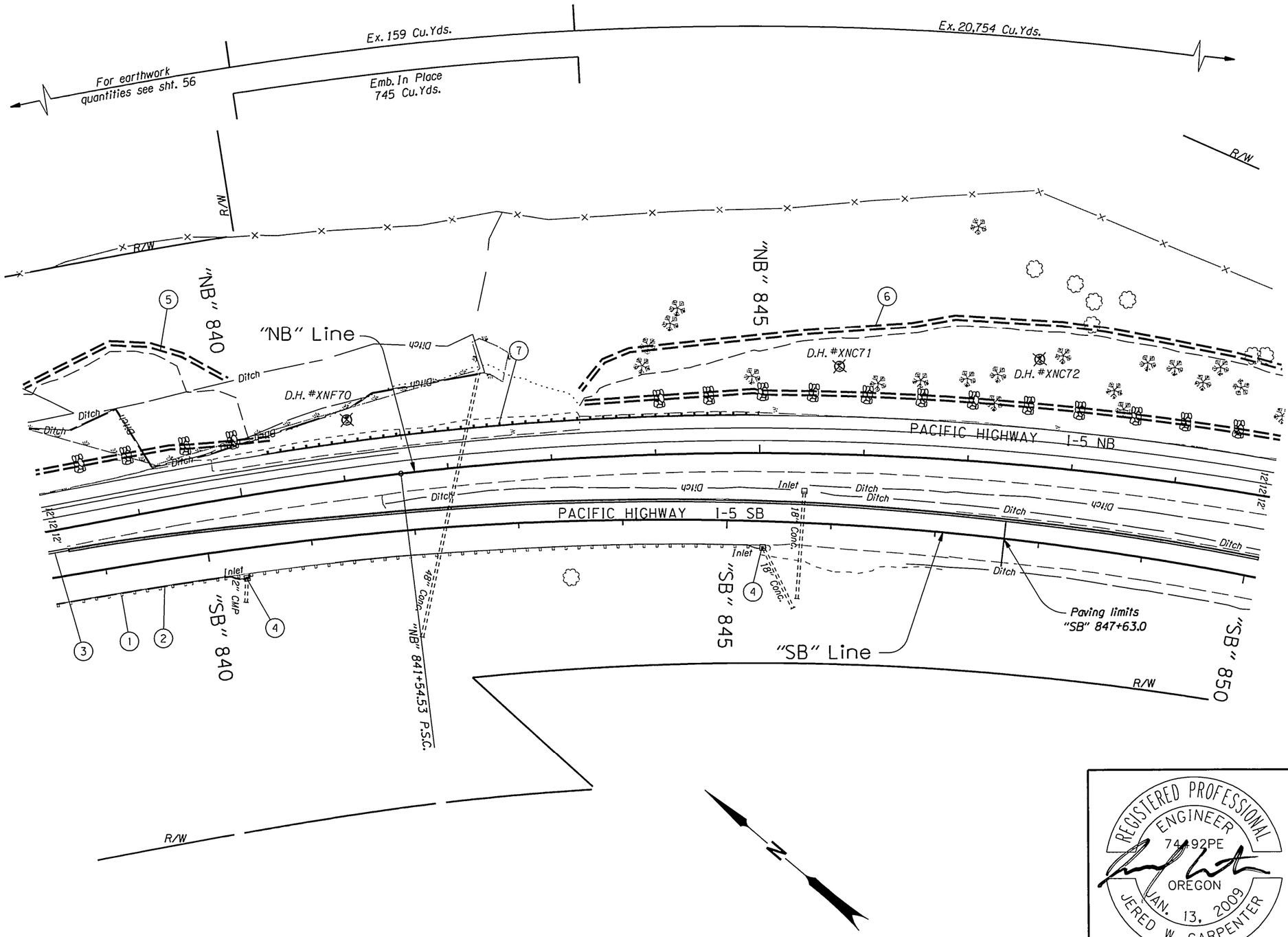
SHEET NO. 56A

F:\ODOT_DATA\Projects\16763 Jumpoff Joe - Glendale\16763_south_LKC.PL6 :: Default 11/26/2012 1:36:19 PM hwye32v

56A 1:1200 BL - 023

Sec. 26 & 35, T. 34 S, R. 6 W, W.M.

46V-003



(1) See sht. 56, note 9

(2) See sht. 56, note 6

(3) See sht. 38, note 8

(4) Adjust inlet - 2

(5) See sht. 56, note 7

(6) Sta. "NB" 843+34.0 to Sta. "NB" 855+29, Lt.
Const. drainage ditch - 939 C.Y.
(For details, see sht. 2B-3)

(7) Sta. "NB" 840+25.0 to Sta. "NB" 845+00, Lt.
Const. guardrail - 437.5' (Type 2A)
Const. anchor (Type 1 mod.)
Inst. end piece (Type B)
Const. guardrail terminal, non-flared
Test level 3
Inst. Type 4 (Alt. 2) delineators - 4

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.
4. Ammended soil not required for check dams between Sta. "NB" 843+00 to "NB" 866+00

REGISTERED PROFESSIONAL ENGINEER
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EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

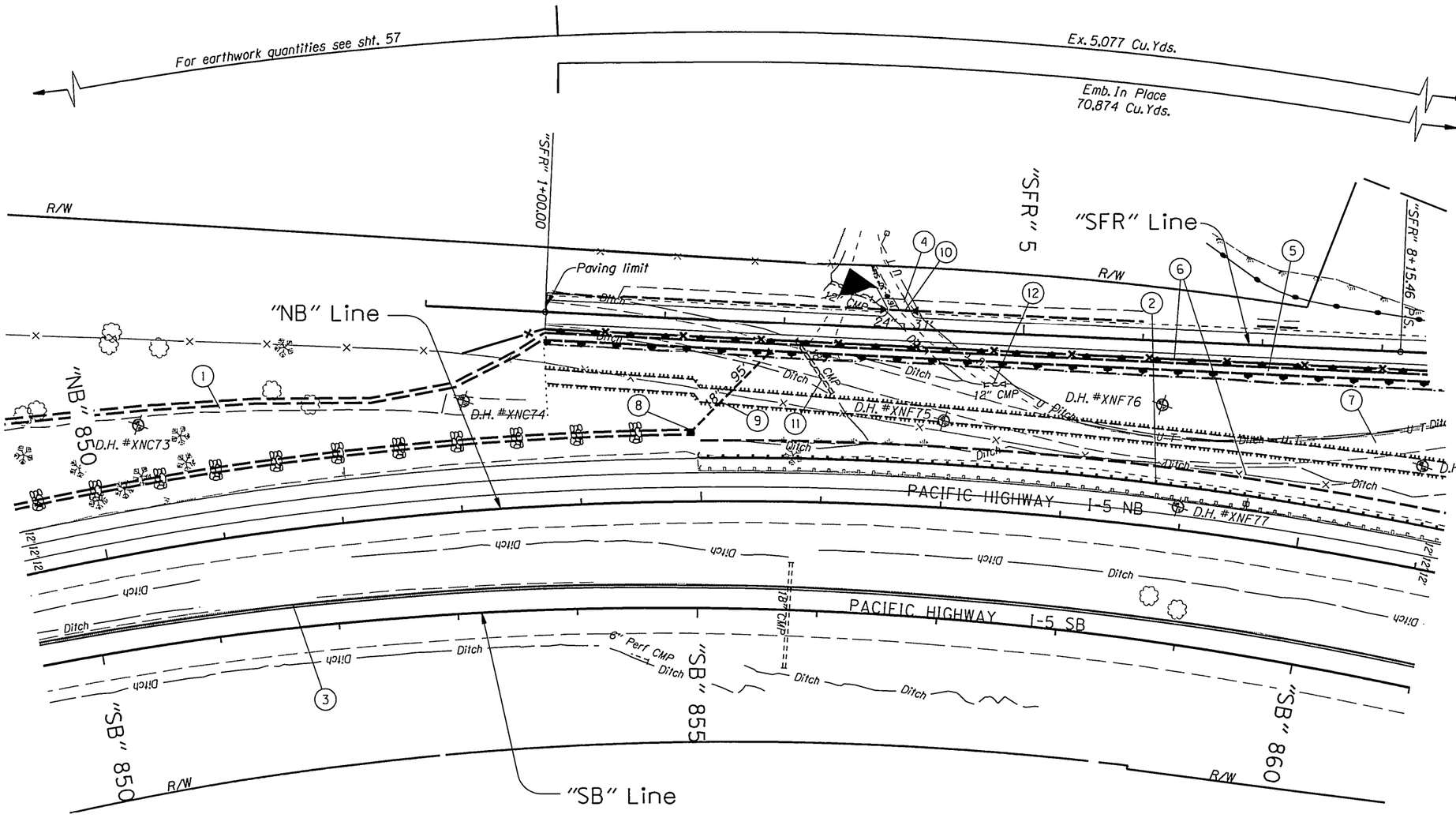
Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 57

Sec. 35, T. 34 S, R. 6 W, W.M.

46V-003



(1) See sht. 57, note 6

(2) Sta. "NB" 855+00 to Sta. "NB" 866+00, Lt.
Remove guardrail - 1,100'
Const. guardrail - 1,100' (type 2A)
Const. anchor (Type 1mod.)
Inst. end piece (type B)
Inst. Type 4 (Alt. 2) delineators - 7

(3) See sht. 38, note 8

(4) Const. approach, asphalt
(For details, see sht. 2B-18)

(5) Const. 4' flat bottom bioswale - 760 sq. yds.
(For details, see sht. 2B-6)

(6) Sta. "SFR" 0+32 to Sta. "SFR" 12+87, Rt.
Remove fence - 1,255'
Const. Type 2 fence - 1,261'
Connect to extg.

(7) Remove AC surfacing on frontage road - 1,575 sq. yds.

Legend
Check dam shown thus:
(For details, see sht. 2B-7)

(8) Sta. "NB" 854+92.06, 57.91' Lt.
Const. type B-SL inlet
(For details, see sht. 58A)

(9) Sta. "NB" 854+92.06, 57.91' Lt. to
Sta. "SFR" 2+90.00, 23.84' Rt.
Const. 18" storm sew. - 95'
5' depth
Const. paved end slope - 30 sq. ft.
(For details, see sht. 58A)
(See Std. dwg. no. RD320)

(10) Sta. "SFR" 3+79.81, 15.77' Lt. to
Sta. "SFR" 4+11.33, 15.77' Lt.
Const. 24" culvert - 31'
5' depth
Const. paved end slope each end - 74 sq. ft.

(11) Remove 18" CMP - 54'

(12) Remove 12" CMP - 18'

NOTES:
1. All dimensions shown are in feet unless otherwise noted.
2. Replace all existing striping/pavement markings in accordance with Standard Drawings TM500, TM501, TM502, TM530, TM547, TM551 & TM560. Replace all recessed pavement markers in accordance with Standard Drawings TM516 & TM517
3. Guardrail design is based on a terminal length of 37.5', if longer terminal is used, reduce the length of Type 2A guardrail accordingly.
4. Ammended soil not required for check dams between Sta. "NB" 843+00 to "NB" 866+00

REGISTERED PROFESSIONAL ENGINEER
74492PE
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JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

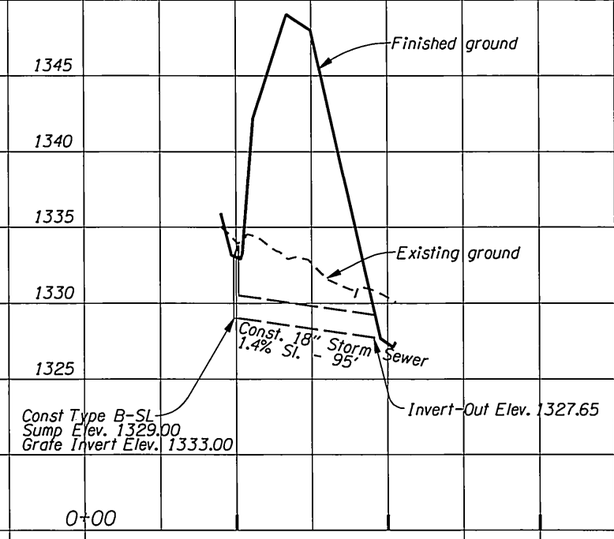
I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

GENERAL CONSTRUCTION

SHEET NO. 58

46V-003



Invert-in of proposed pipe @
Sta. "NB" 854+92.06, 57.91' Lt.
See sht. 58, note 8
Profile shown @ pipe ℄

REGISTERED PROFESSIONAL ENGINEER
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OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/
SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 58A

46V-003

SEXTON FRONTAGE ROAD

1351.52

+00.00

Existing ground

Invert-In Elev. 1319.31

917' V.C.

1297.33

24" @ 9.71%

Invert-Out Elev. 1316.27

31'

Finish grade

+61.58

Existing ground

1261.48

Finish grade

-5.28%

+40.00

1355 1350 1345 1340 1335 1330 1325 1320 1315 1310 1305 1300 1295 1290 1285

1300 1295 1290 1285 1280 1275 1270 1265 1260 1255 1250

1+00 5+00 7+00 10+00

REGISTERED PROFESSIONAL ENGINEER
74492PE
OREGON
JAN. 13, 2009
JERED W. CARPENTER
EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 3 - TECHNICAL CENTER

I-5: GLENDALE-HUGO PAVING/ SEXTON CLIMBING LANE
PACIFIC HIGHWAY
JOSEPHINE & DOUGLAS COUNTY

Designed By - Jered Carpenter
Reviewed By - Brian Sheadel
Drafted By - Linda K. Coffel

PROFILE

SHEET NO. 58B

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