

# NOTICE OF NSA OPPORTUNITY TO COMMENT



www.multco.us/landuse ▪ Email: land.use.planning@multco.us ▪ Phone: (503) 988-3043

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## Application for Geologic Hazard Permit

**CASE FILE:** T2-2024-0101                      **APPLICANT:** Terra Lingley

**LOCATION:** Right-of-Way south of 1N3E25 -00100                      **Property ID #** R320667  
**Map, Tax lot:** 1N3E25 -00100                      **Alt. Acct. #** R943252300

**BASE ZONE:** Gorge Special Public Recreation (GS-PR)

**OVERLAYS:** Flood Hazard (FH), Wetlands

**KEY VIEWING AREAS:** Columbia River, Crown Point, Historic Columbia River Highway, Interstate – 84, Larch Mountain Road, Portland Women’s Forum, Rooster Rock, State Route – 14, and the Sandy River.

**LANDSCAPE SETTING:** River Bottomlands

**PROPOSAL:** Request for a Geologic Hazard review for a multi-use path between the I-84 pedestrian tunnel (mile point 17.81) and the Sandy River Delta.

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- ❖ **COMMENT PERIOD:** Neighbors are invited to submit written comments for the proposal described above. Comments should be directed toward the approval criteria listed below. Any neighbor that submits comments will receive the County’s complete decision. Written comments will be accepted at [LUP-comments@multco.us](mailto:LUP-comments@multco.us) if received by **4:00 pm on Tuesday, July 15, 2025**. **If you do not wish to submit comments, no response is necessary.**

Further information regarding this application is available by contacting [LUP-comments@multco.us](mailto:LUP-comments@multco.us). Paper copies of these materials may be purchased for \$0.46/per page.

- ❖ **APPLICABLE APPROVAL CRITERIA** [Multnomah County Code (MCC)]:

General Provisions: MCC 38.0560 Code Compliance and Applications, MCC 38.0015 Definitions – Parcel, MCC 38.0110 Tribal Treaty Rights and Consultation

Geologic Hazards (GH): MCC 38.5503 Definitions, MCC 38.5505 Permit Required, MCC 38.5510 Exemptions, MCC 38.5515 Geologic Hazards Permit Application Information Required, MCC 38.5520 Geologic Hazards Permit Standards

Copies of the referenced Multnomah County Code sections can be obtained by visiting our website at <https://multco.us/landuse/zoning-codes/> under the link **Chapter 38 – Columbia River Gorge National Scenic Area** or by contacting our office at (503) 988-3043.

## Vicinity Map



- ❖ **DECISION MAKING PROCESS:** The Planning Director will render a decision on this application after the comment period expires. Notice of the Director's decision will be mailed to the applicant, those who submitted written comment during the comment period, those who requested the decision in writing, and the Gorge Commission. The Planning Director's decision can be appealed. An explanation of the requirements for filing an appeal will be included in the notice of decision.
- ❖ **IMPORTANT NOTE:** Failure to raise an issue before the close of the public record in sufficient detail to afford the County and all parties an opportunity to respond may preclude appeal on that issue to the Columbia River Gorge Commission.
- ❖ **ENCLOSURES:**
  - Site Plan
  - Geologic Hazard Permit Form

### Notice to Mortgagee, Lien Holder, Vendor, or Seller:

ORS chapter 215 requires that if you receive this notice, it must promptly be forwarded to the purchaser.

CHARGE NUMBER: PE003512000

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
A01	Title Sheet
A02	Index Of Sheets Cont. & Std. Dwg. Nos.

STATE OF OREGON  
DEPARTMENT OF TRANSPORTATION

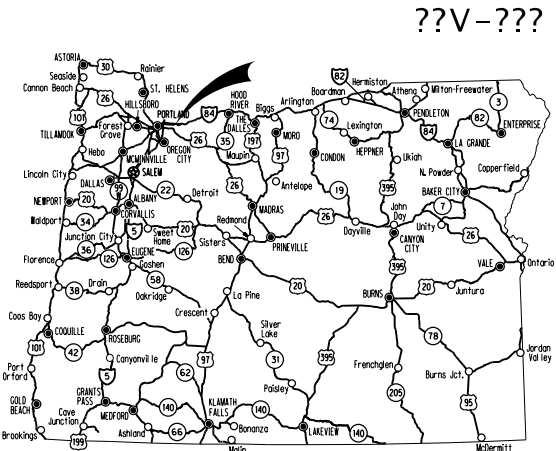
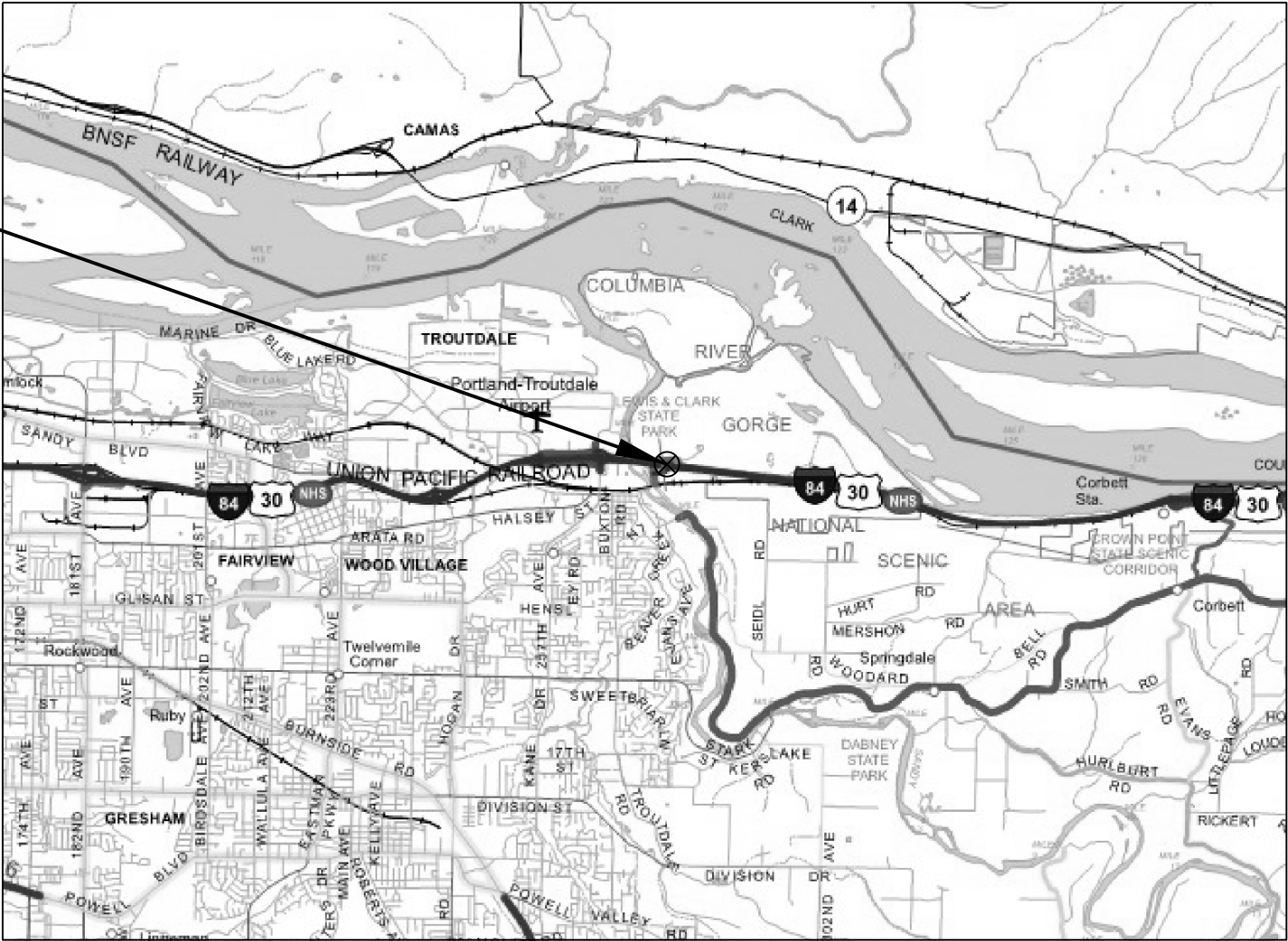
PLANS FOR PROPOSED PROJECT

SCOPE OF WORK  
SCOPE OF WORK

I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT  
COLUMBIA RIVER HIGHWAY

MULTNOMAH COUNTY  
DATE

LOCATION OF PROJECT  
STA. xx (MP 18.33 to 18.51)



Overall Length Of Project - 0.2 Miles

**ATTENTION:**  
Oregon Law Requires You To Follow Rules Adopted  
By The Oregon Utility Notification Center.  
Those Rules Are Set Forth In OAR 952-001-0001  
Through OAR 952-001-0100.  
You May Obtain Copies Of The Rules By Calling  
The Center (Note: The Telephone Number For  
The Oregon Utility Notification Center Is  
(503) 232-1987).



OREGON TRANSPORTATION COMMISSION  
Julie Brown CHAIR  
Lee Beyer VICE CHAIR  
Sharon Smith COMMISSIONER  
Alicia Chapman COMMISSIONER  
Jeff Baker COMMISSIONER  
Kristopher W. Strickler 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: \_\_\_\_\_  
Signature & date

Print name and title

Concurrence by ODOT Chief Engineer

I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	S002(251)	A01

Standard Dwg. Nos.

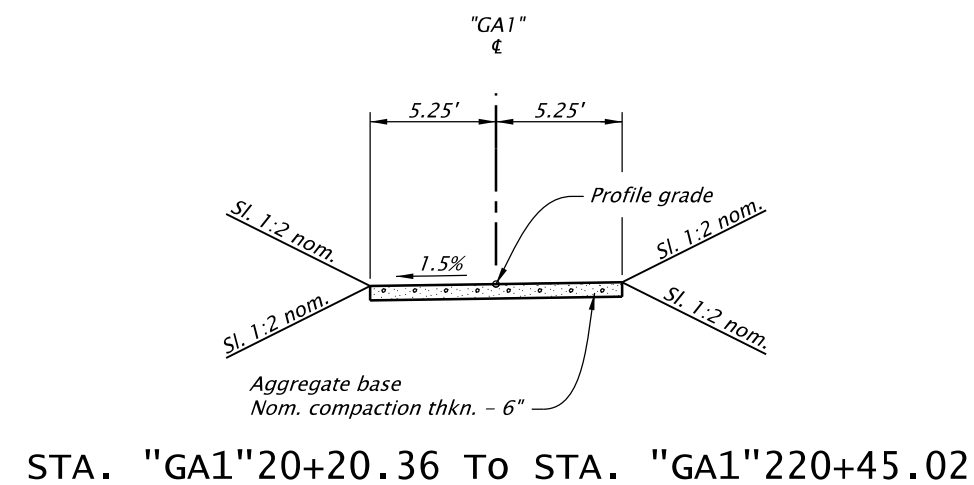
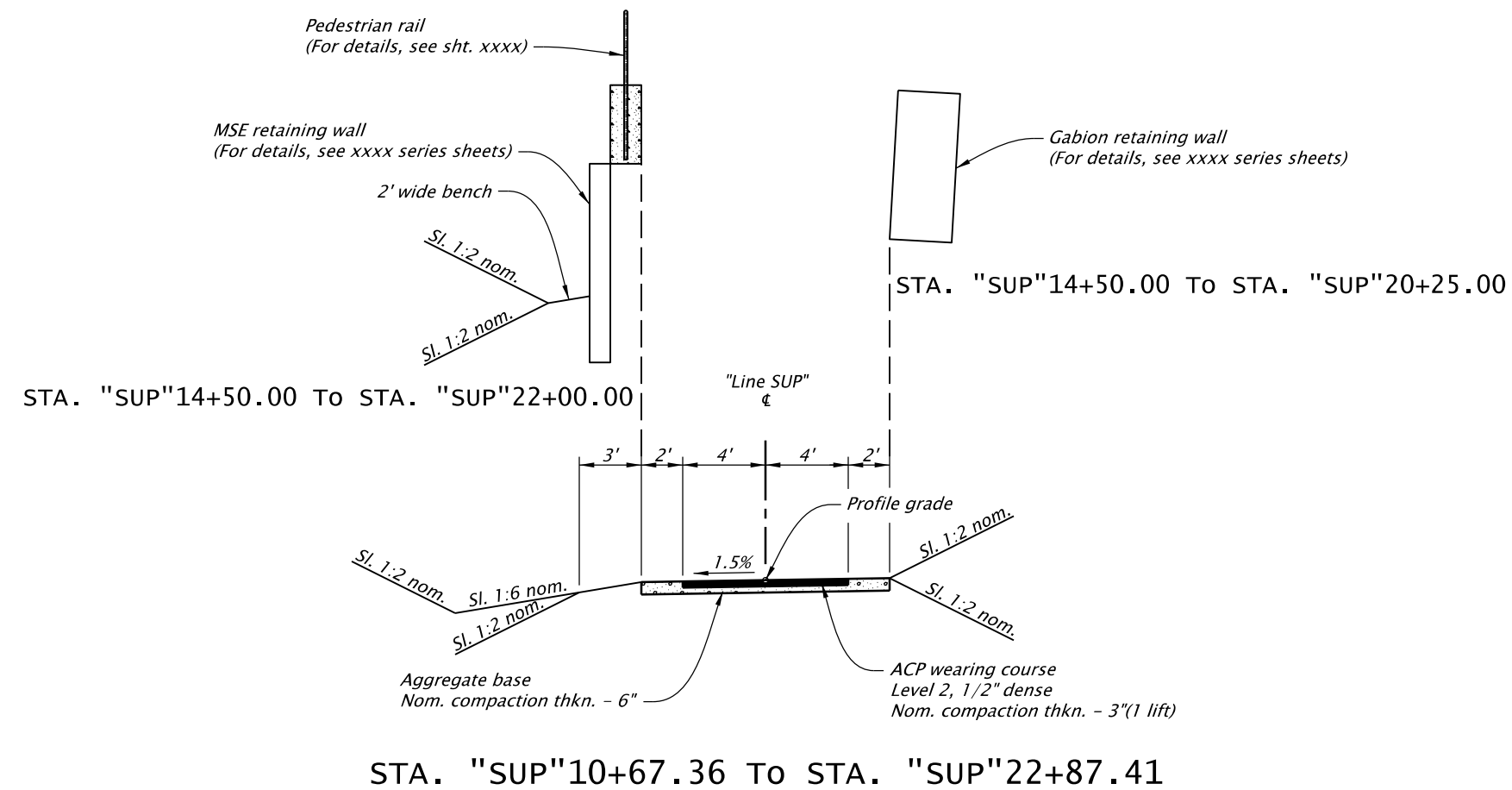
RD130 – Bollards  
RD150 – Slope Rounding  
RD770 – Metal Handrail  
RD771 – Metal Handrail Details

INDEX OF SHEETS, CONT.	
SHEET NO.	DESCRIPTION
ROADWAY DETAILS	
BA01	Typical Sections
BB01	Details
ROADWAY CONSTRUCTION (Main Line)	
C01	Alignment
C01A	General Construction
C01B	Profile
C02	Alignment
C02A	General Construction
C02B	Profile
C03	Alignment
C03A	General Construction
C03B	Profile
C04	Alignment
C04A	General Construction
C04B	Profile



Standard Drawings located on the web at:  
<http://www.oregon.gov/ODOT/Engineering/Pages/Standards.aspx>

I-84: (MULTI-USE PATH) JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT		
COLUMBIA RIVER HIGHWAY MULTNOMAH COUNTY		
FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	SEE SHEET A01	A02



OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana

Reviewer: Chivanna Pot

Drafter: Sue Cross

Checker: Bryan Dahlman

TYPICAL SECTIONS

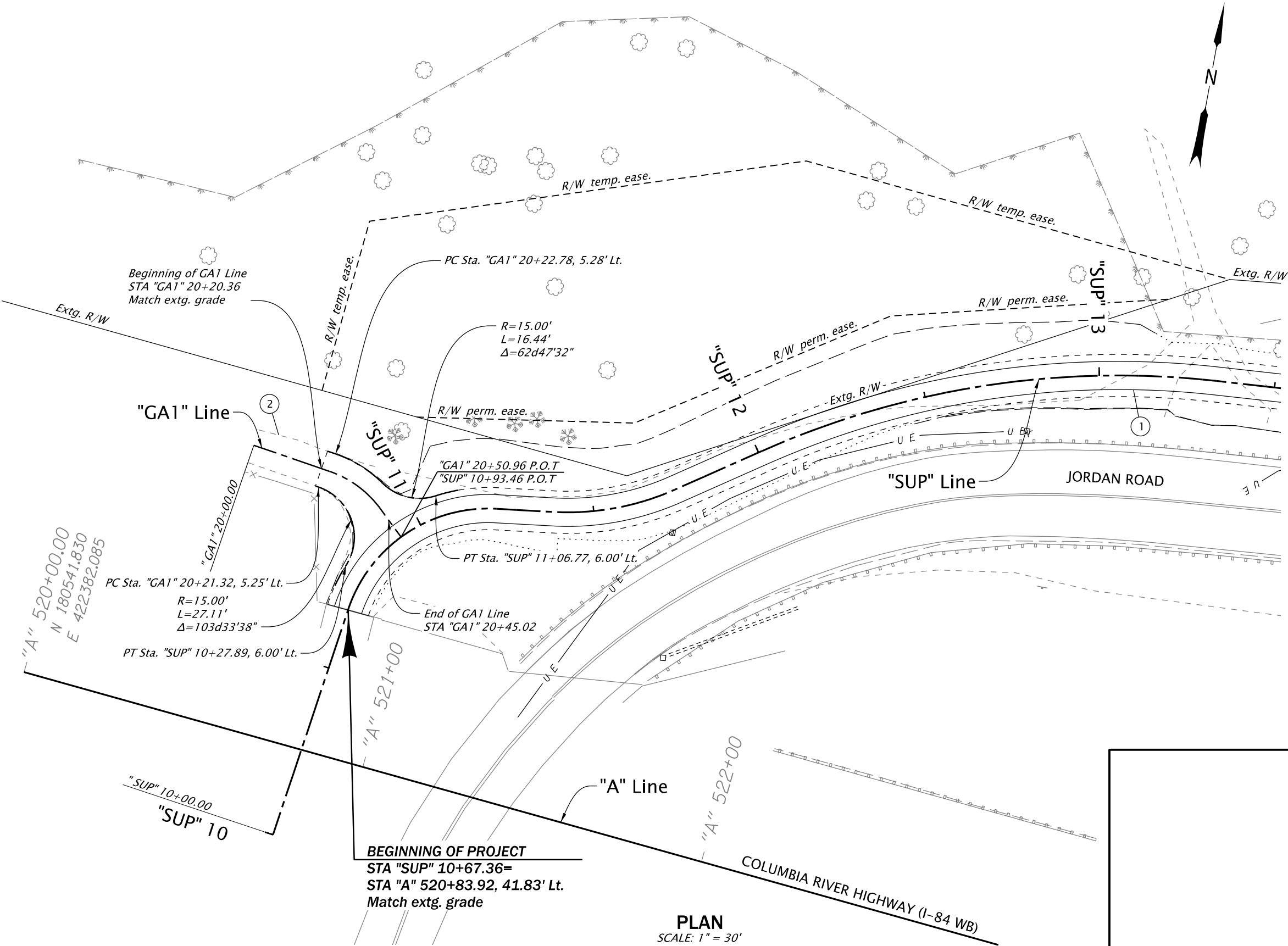
SHEET NO.

BA01



Construction notes

- 1 Const. 8' wide ACP path  
(For details, seet sht. XXXX)
- 2 Const. 10.5' wide gravel path  
(For details, seet sht. XXXX)



PLAN  
SCALE: 1" = 30'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana

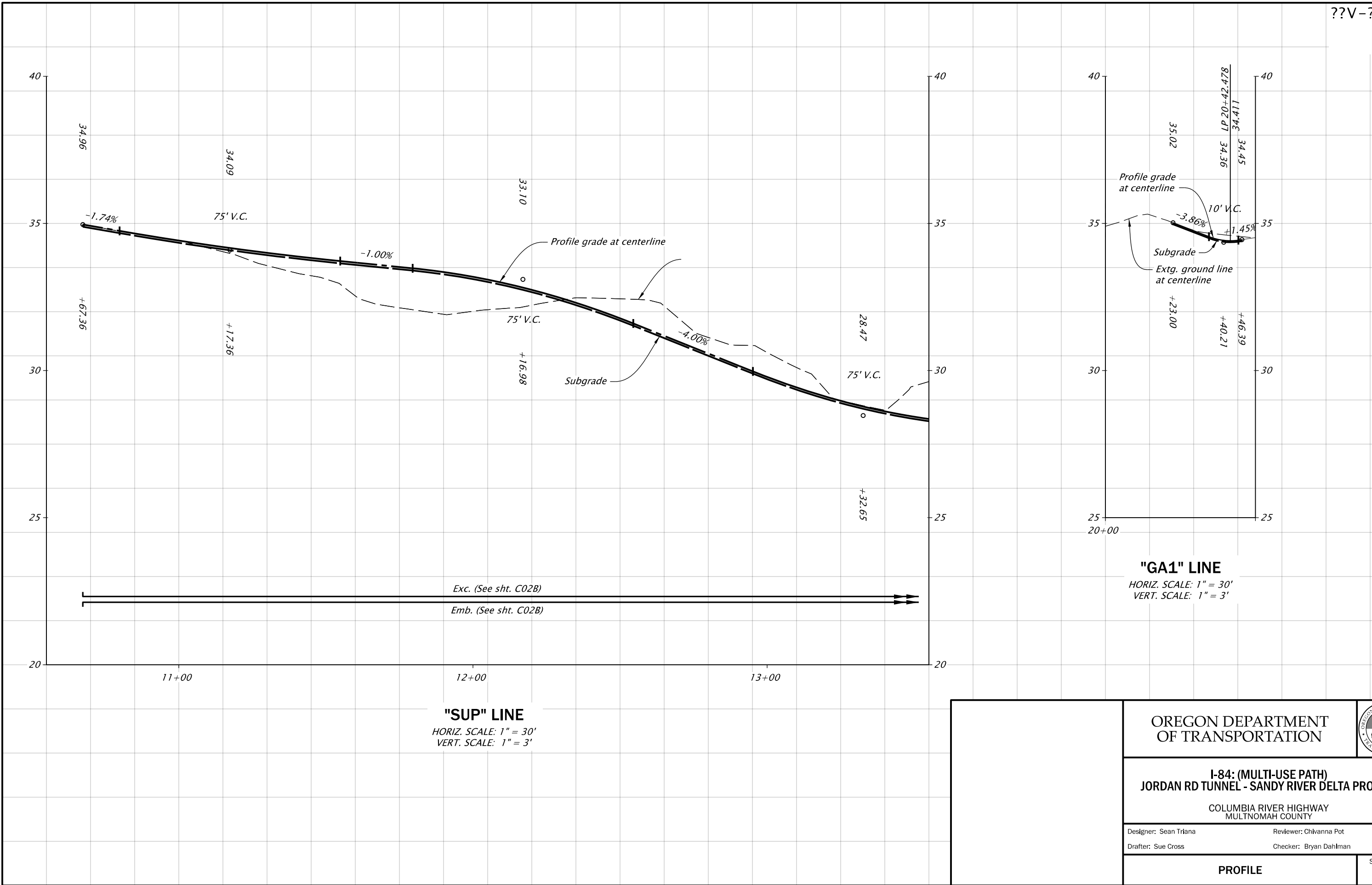
Reviewer: Chivanna Pot

Drafter: Sue Cross

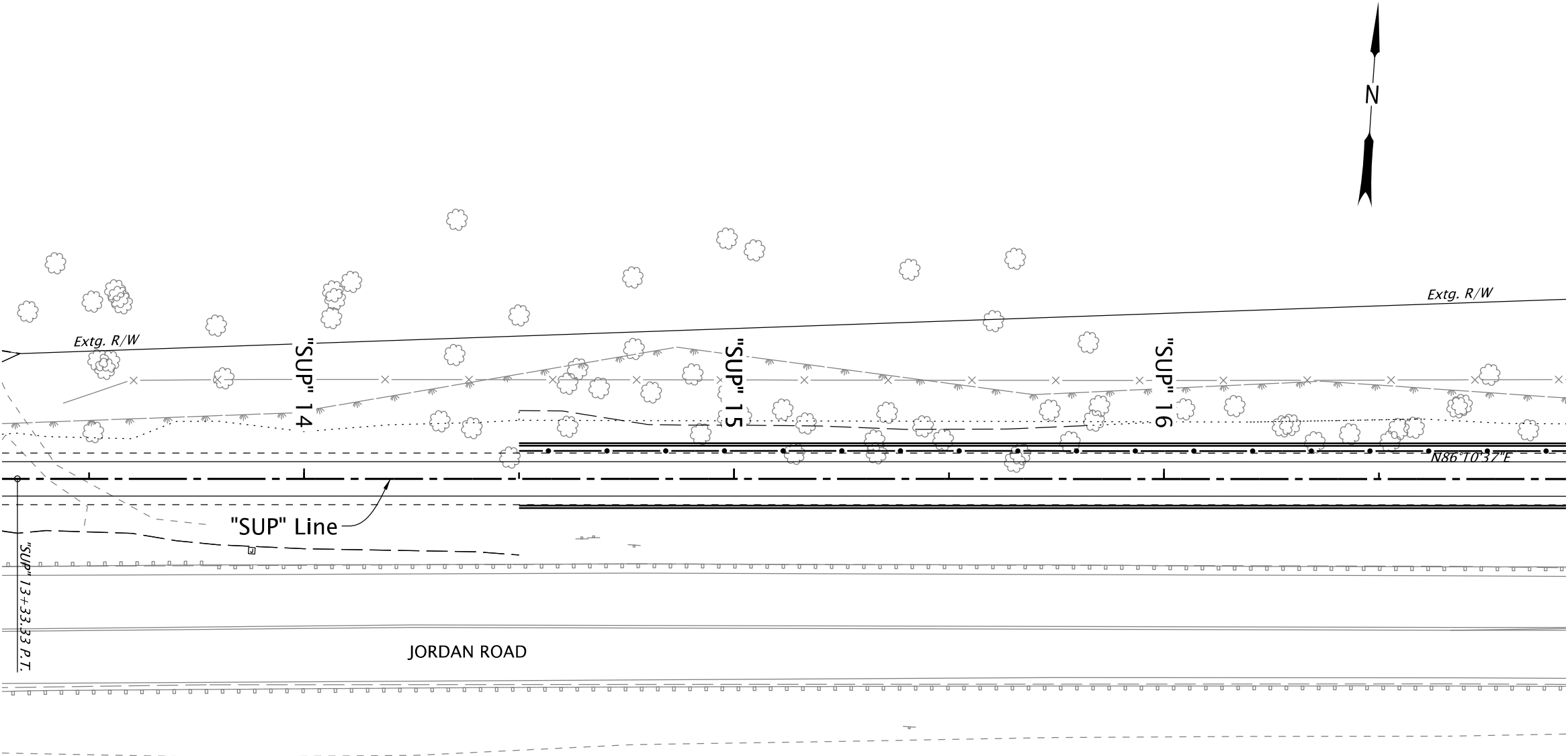
Checker: Bryan Dahlman

GENERAL CONSTRUCTION

SHEET NO.  
C01A







PLAN  
SCALE: 1" = 30'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

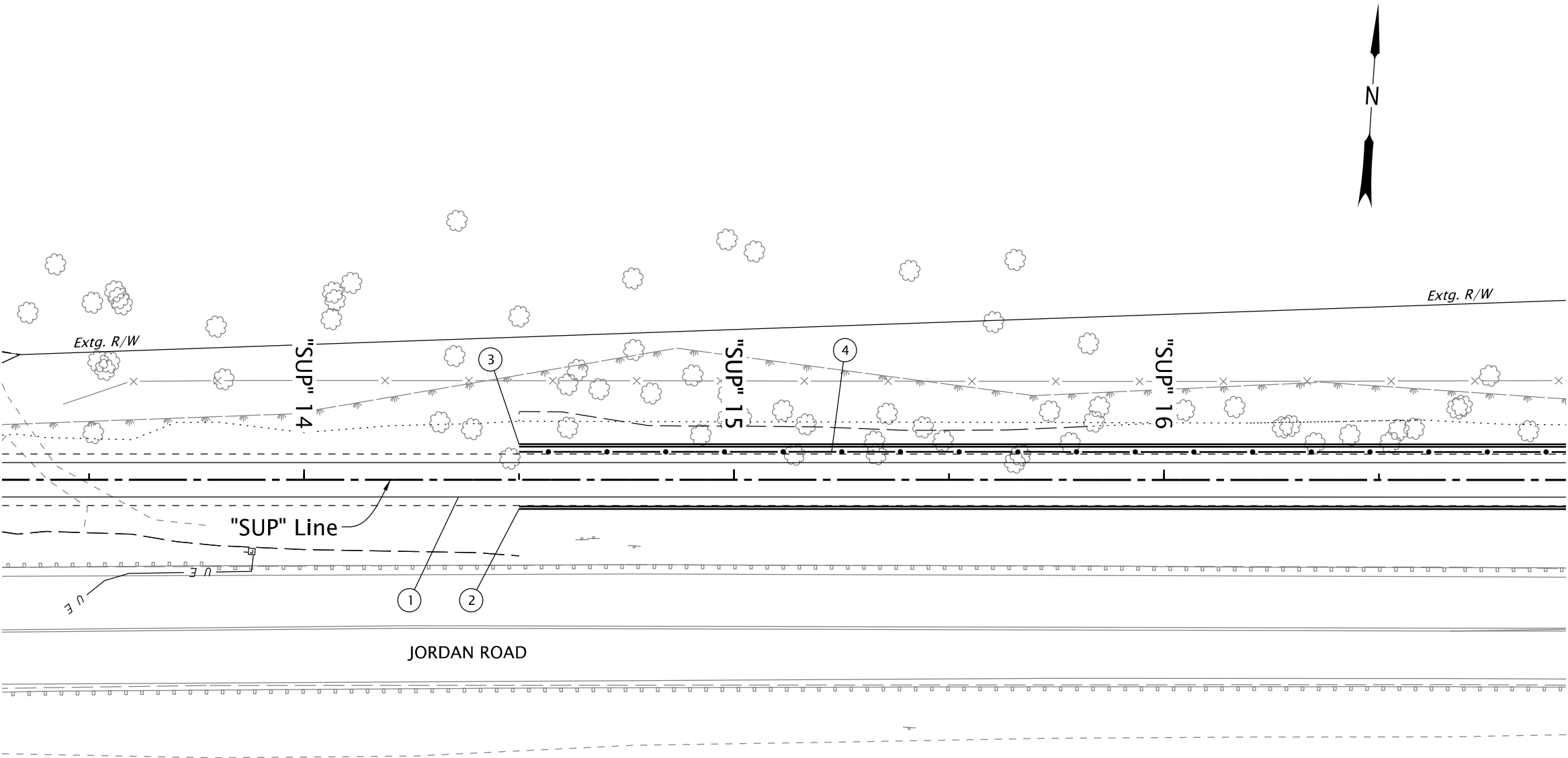
Designer: Sean Triana      Reviewer: Chivanna Pot  
Drafter: Sue Cross      Checker: Bryan Dahlman

ALIGNMENT

SHEET NO.  
C02

Construction notes

- 1
- Const. 8' wide ACP path  
(For details, seet sht. XXXX)
- 2
- Structure no. XXXX  
Sta. "SUP" 14+50.00 to Sta. "SUP" 20+25.00, Rt.  
Const. gabion retaining wall  
(For sht. nos., see sht. A02, Geotechnical)
- 3
- Structure no. XXXX  
Sta. "SUP" 14+50.00 to Sta. "SUP" 22+00.00, Lt.  
Const. MSE retaining wall  
(For sht. nos., see sht. A02, Geotechnical)
- 4
- Install pedestrian rail, modified  
Sta. "SUP" 14+50.00 to Sta. "SUP" 22+00.00, Lt.  
(For details, seet sht. XXXX)



PLAN  
SCALE: 1" = 30'

OREGON DEPARTMENT  
OF TRANSPORTATION



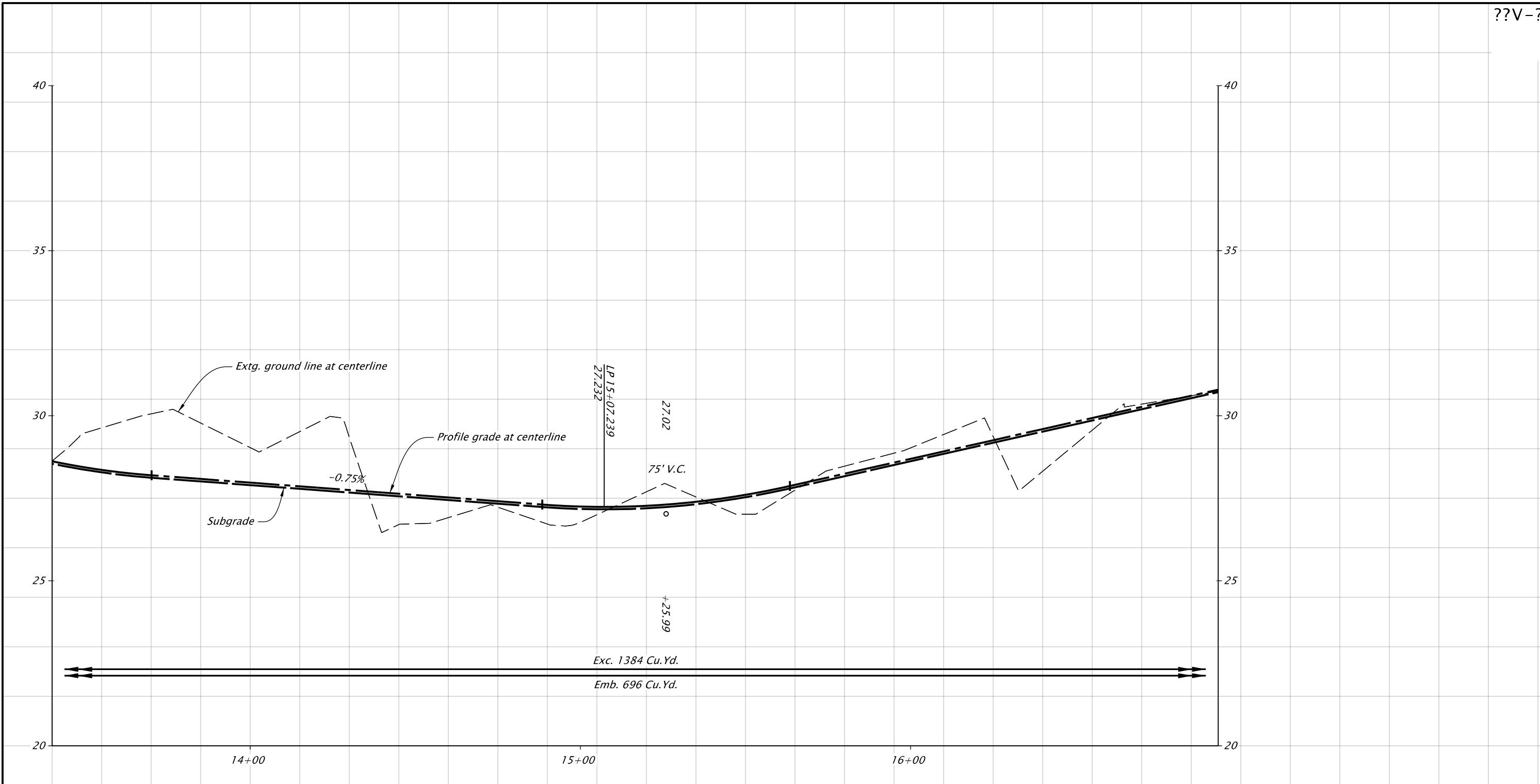
I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana  
Reviewer: Chivanna Pot  
Drafter: Sue Cross  
Checker: Bryan Dahlman

GENERAL CONSTRUCTION

SHEET NO.  
C02A



"SUP" LINE  
HORIZ. SCALE: 1" = 30'  
VERT. SCALE: 1" = 3'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana

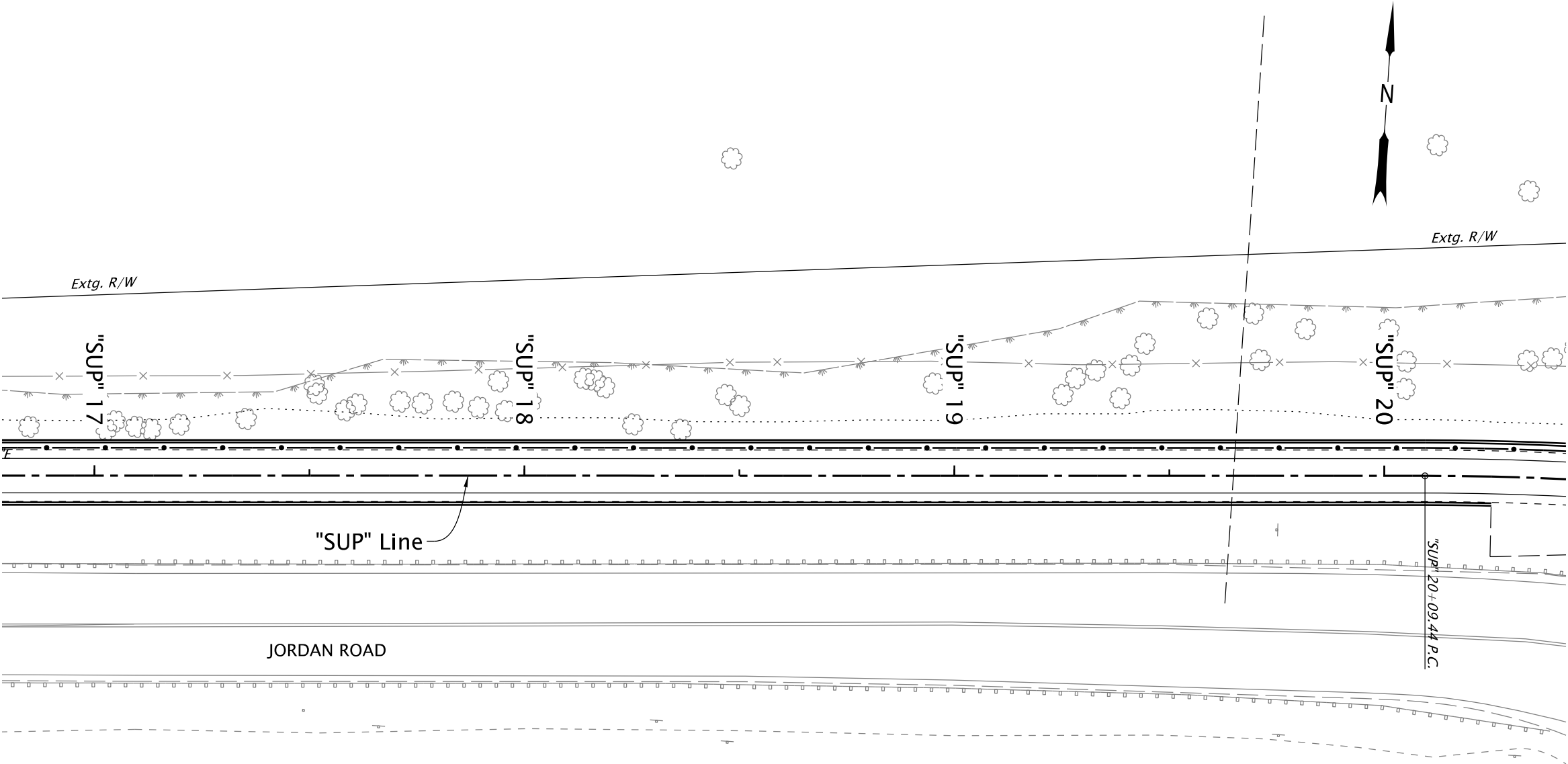
Reviewer: Chivanna Pot

Drafter: Sue Cross

Checker: Bryan Dahlman

PROFILE

SHEET NO.  
C02B



PLAN  
SCALE: 1" = 30'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana

Reviewer: Chivanna Pot

Drafter: Sue Cross

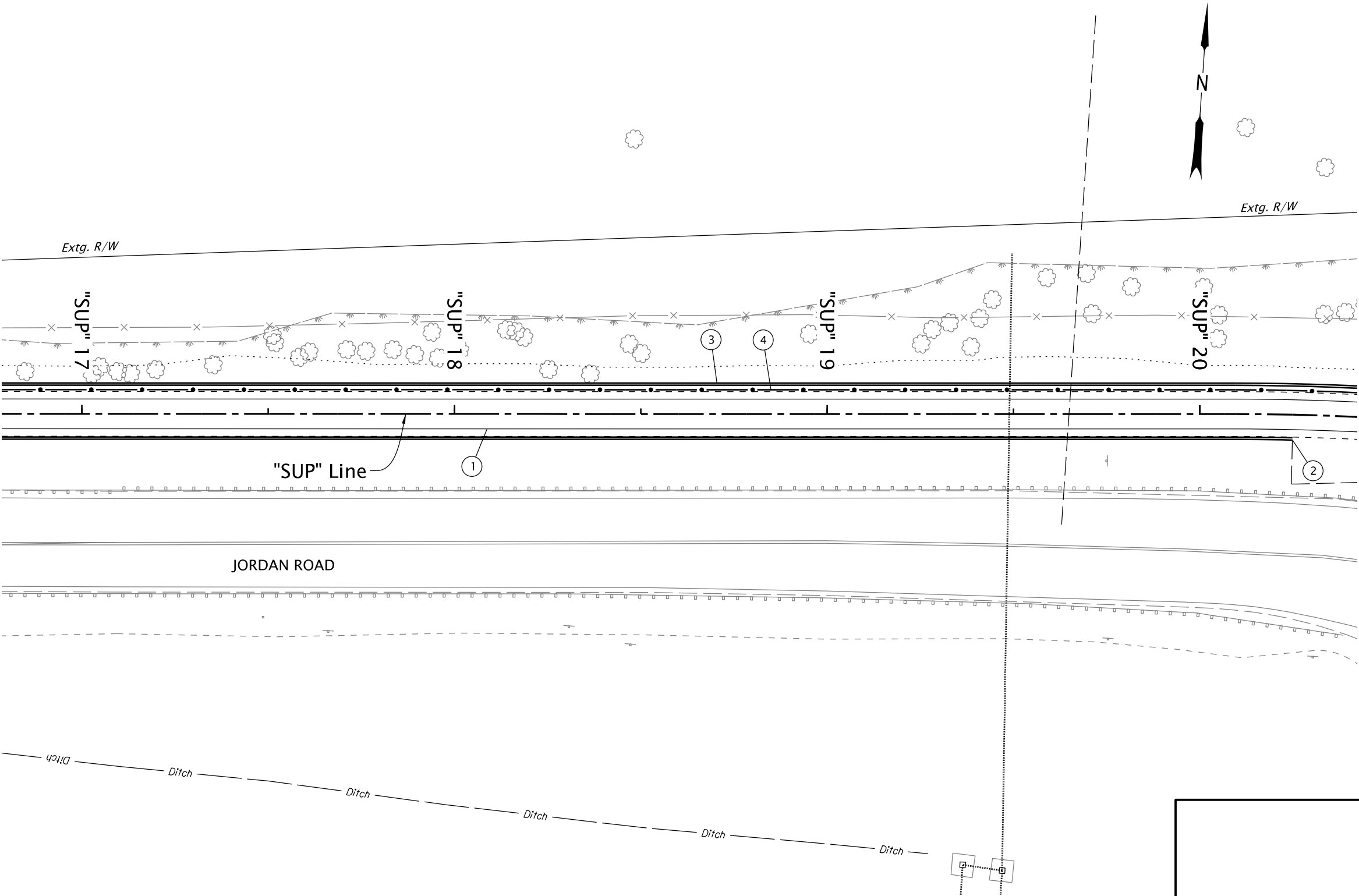
Checker: Bryan Dahlman

ALIGNMENT

SHEET NO.  
C03

Construction notes

- 1
- Const. 8' wide ACP path  
(For details, seet sht. XXXX)
- 2
- Structure no. XXXX  
Sta. "SUP" 14+50.00 to Sta. "SUP" 20+25.00, Rt.  
Const. gabion retaining wall  
(For sht. nos., see sht. A02, Geotechnical)
- 3
- Structure no. XXXX  
Sta. "SUP" 14+50.00 to Sta. "SUP" 22+00.00, Lt.  
Const. MSE retaining wall  
(For sht. nos., see sht. A02, Geotechnical)
- 4
- Install pedestrian rail, modified  
Sta. "SUP" 14+50.00 to Sta. "SUP" 22+00.00, Lt.  
(For details, seet sht. XXXX)



OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana

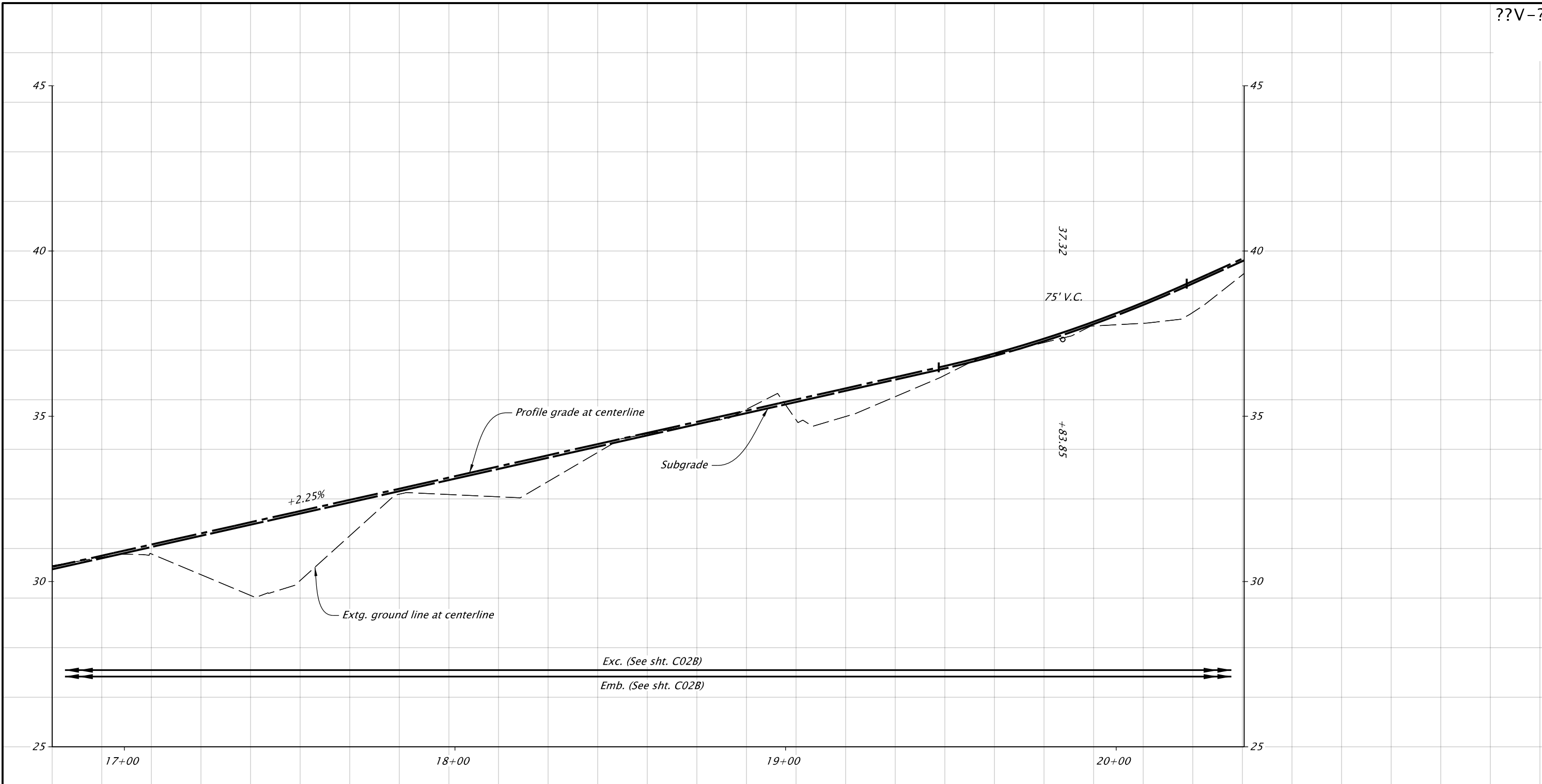
Reviewer: Chivanna Pot

Drafter: Sue Cross

Checker: Bryan Dahlman

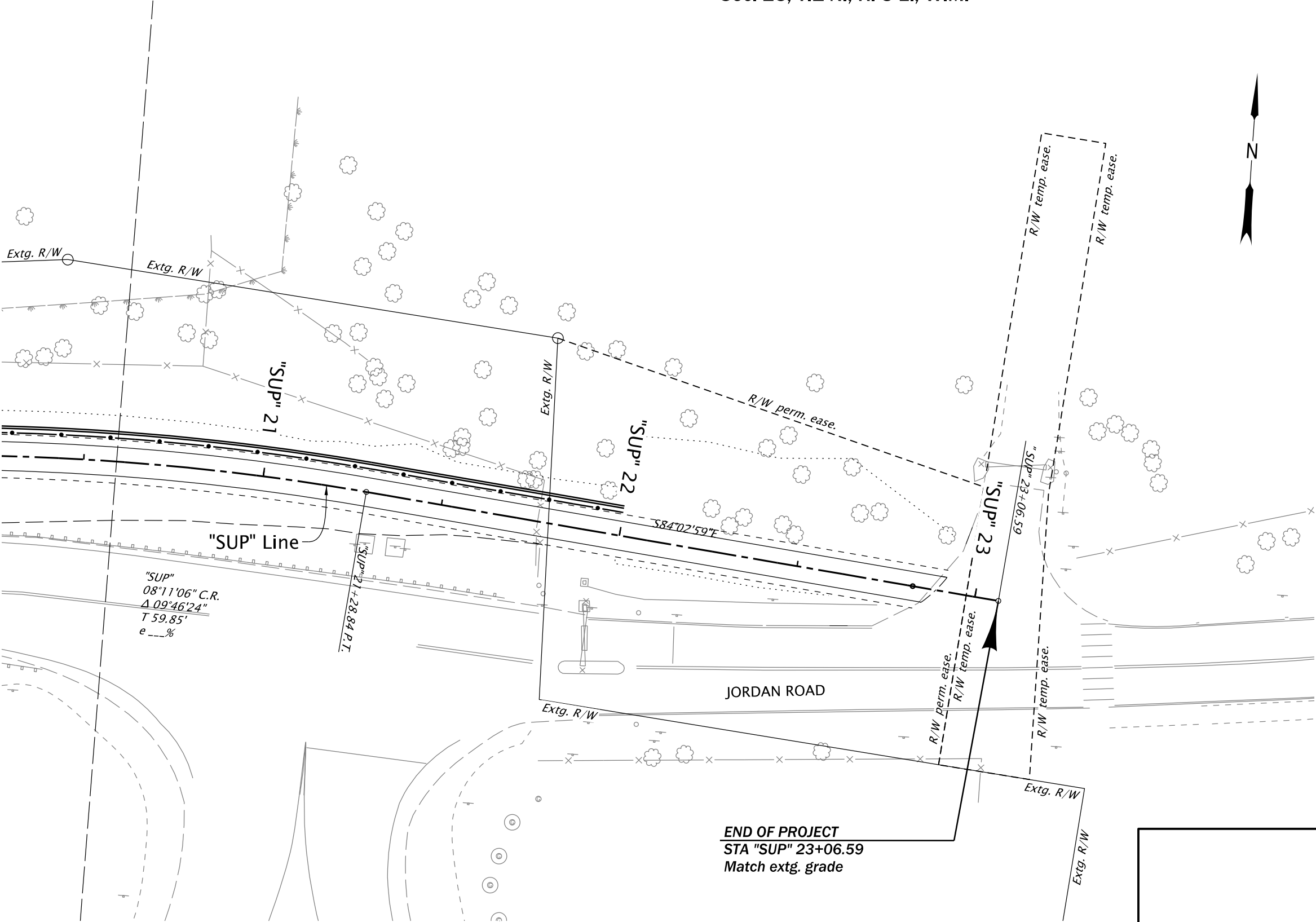
GENERAL CONSTRUCTION

SHEET NO.  
C03A



"SUP" LINE  
HORIZ. SCALE: 1" = 30'  
VERT. SCALE: 1" = 3'

	OREGON DEPARTMENT OF TRANSPORTATION	
	I-84: (MULTI-USE PATH) JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT	
	COLUMBIA RIVER HIGHWAY MULTNOMAH COUNTY	
	Designer: Sean Triana	Reviewer: Chivanna Pot
	Drafter: Sue Cross	Checker: Bryan Dahlman
PROFILE		SHEET NO. C03B



END OF PROJECT  
STA "SUP" 23+06.59  
Match extg. grade

PLAN  
SCALE: 1" = 30'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

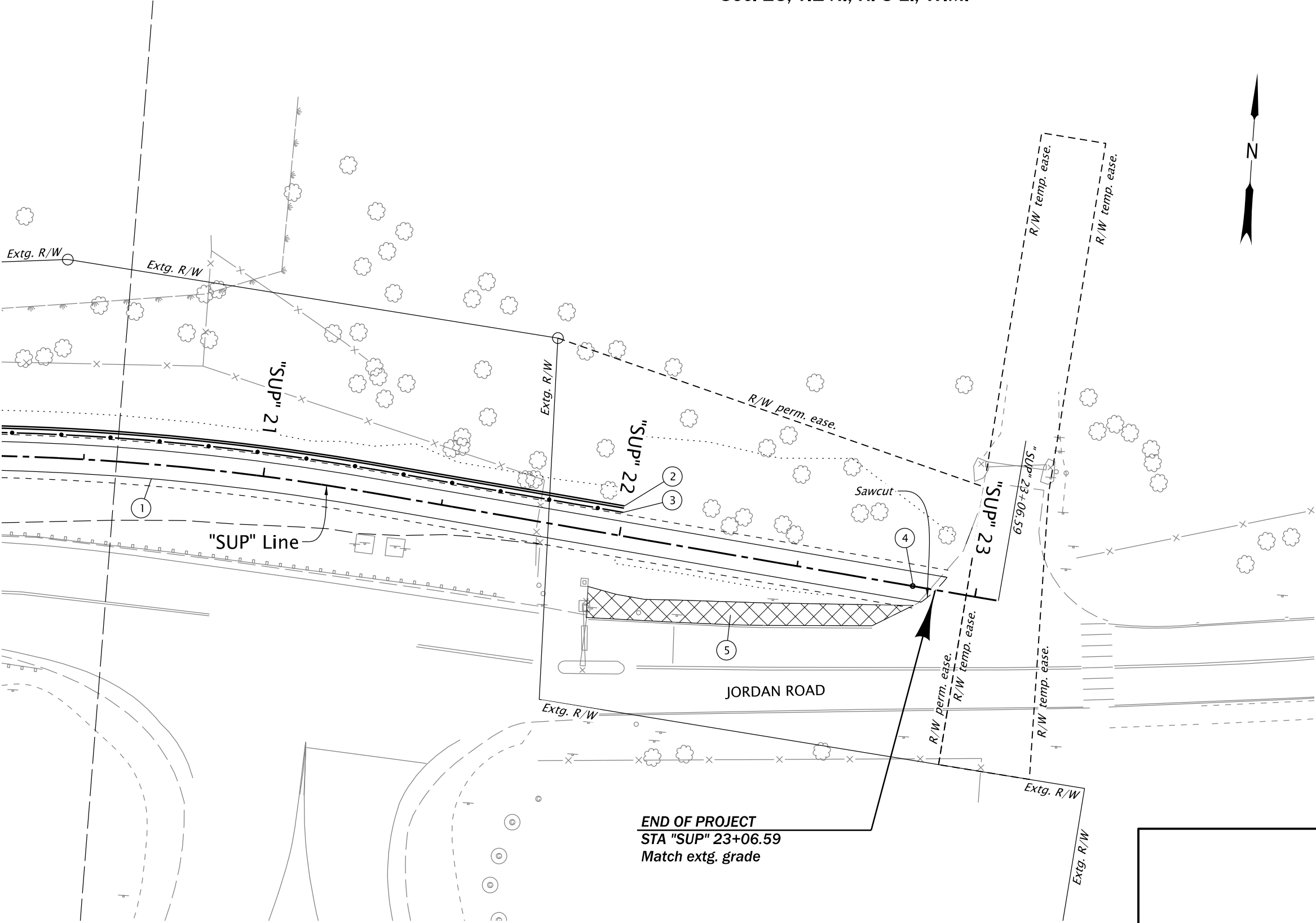
Designer: Sean Triana      Reviewer: Chivanna Pot  
Drafter: Sue Cross      Checker: Bryan Dahlman

ALIGNMENT

SHEET NO.  
C04

Construction notes

- 1 Const. 8' wide ACP path  
(For details, seet sht. XXXX)
- 2 Structure no. XXXX  
Sta. "SUP" 14+50.00 to Sta. "SUP" 22+00.00, Lt.  
Const. MSE retaining wall  
(For sht. nos., see sht. A02, Geotechnical)
- 3 Install pedestrian rail, modified  
Sta. "SUP" 14+50.00 to Sta. "SUP" 22+00.00, Lt.  
(For details, seet sht. XXXX)
- 4 Inst. bollard (removable) - 1 each  
Sta. "SUP" 22+82.49, 0' Rt.  
(See dwg. no. RD130)
- 5 Remove sidewalk, shown thus:



PLAN  
SCALE: 1" = 30'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana

Reviewer: Chivanna Pot

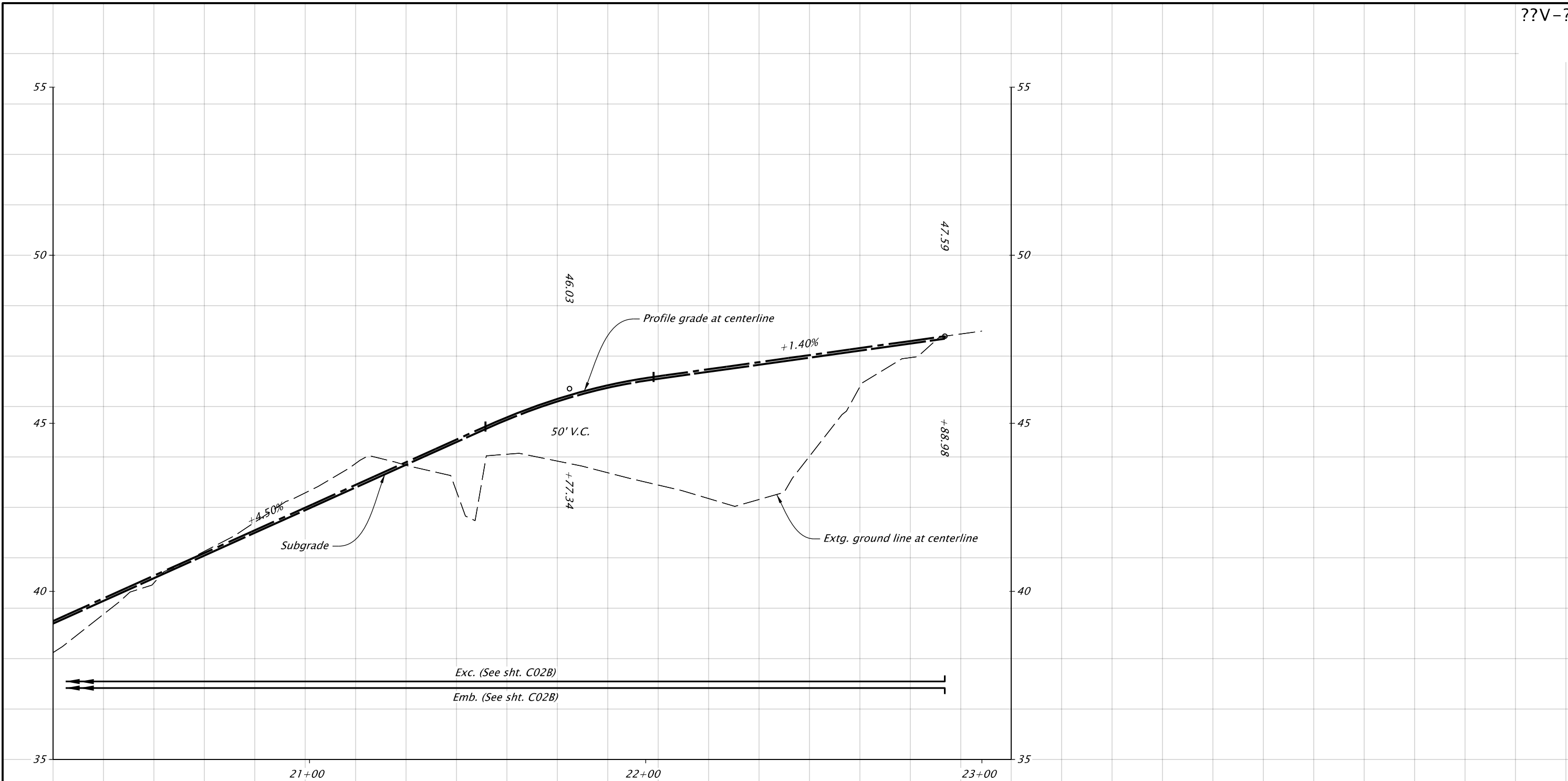
Drafter: Sue Cross

Checker: Bryan Dahlman

GENERAL CONSTRUCTION

SHEET NO.  
C04A





"SUP" LINE  
HORIZ. SCALE: 1" = 30'  
VERT. SCALE: 1" = 3'

OREGON DEPARTMENT  
OF TRANSPORTATION



I-84: (MULTI-USE PATH)  
JORDAN RD TUNNEL - SANDY RIVER DELTA PROJECT

COLUMBIA RIVER HIGHWAY  
MULTNOMAH COUNTY

Designer: Sean Triana      Reviewer: Chivanna Pot  
Drafter: Sue Cross      Checker: Bryan Dahlman

PROFILE

SHEET NO.  
C04B

# GEOLOGIC HAZARDS PERMIT (GHP) FORM 1



Land Use Planning Division

www.multco.us/landuse ▪ Email: land.use.planning@multco.us ▪ Phone: (503) 988-3043

## GEOTECHNICAL RECONNAISSANCE AND STABILITY PRELIMINARY STUDY

*Note: Response to each question below must be completed or verified by a Certified Engineering Geologist or Geotechnical Engineer, including a State of Oregon Registration Stamp and Number in the space provided on page four. This form addresses Multnomah County Code Section 39.5085(C)(3)(c); 38.5515(C)(3)(c), Geologic Hazards Permits.*

**Site Address:** No address, I-84 EB at Mile Point 18.0 (Jordan Road)

**Legal Description:** Multnomah Co., No Tax Lot, T01N, R03E, Sec. 25, NE 1/4

**Property Owner's Name:** Oregon Department of Transportation

**Firm Preparing Report:** Oregon Department of Transportation

**Address:** 123 NW Flanders St.

**City:** Portland **State:** OR **Zip:** 97209

**Preparer's Name:** Michael Bunn, PE

**Phone Number:** 503-312-1647

### GENERAL PROPERTY INFORMATION

1. a. Maximum Slope on Property: 1.5H:1V Area in which it is located: North of Jordan Rd.  
Average Slope of Property: 4H:1V
- b. Are there any wetlands or streambeds on the property? (Please Circle) **Yes** No  
If yes, please show on topographical survey or sketch.
- c. Volume of soil or earth material disturbed, stored, disposed of or used as fill: 1,800 cubic yards
- d. Total area of proposed ground disturbance:  
45,000 (square feet) 1.0 (acres)

Were building plans considered when completing this form? (Please Circle) Yes ☐ No ☒

If yes, please note the author and date the plans were prepared.

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2. What is the general topography of the property? Please attach a topographic survey or sketch with pertinent notes.

The topography consists of a roughly 1,000-foot-long, linearly-shaped manmade embankment slope with gradients between 4H:1V to 1H:1V. Site topography is shown on the site plan and additional description is provided in the attached Geotechnical Memorandum.

3. Are there any visible signs of instability or other potentially adverse site features (Landslides, slumps, mud flow, creep, ravines, fills, cuts, seeps, springs, ponds, etc.) within the surrounding area for a minimum distance of 100 feet beyond the subject property boundaries? Describe and indicate on attached topographic survey or sketch.

Moderate to dense vegetation (blackberries, grasses, etc.) covers much of the embankment slope. We observed several unvegetated paths that cross the slope and an abrupt drop or oversteepened area in one location along the embankment. The unvegetated paths appear to have been formed by humans or animals traversing the slope rather than by erosion. The abrupt drop may be associated with a slump, but is more likely caused by a vegetation roots.

4. Is any earthwork proposed in connection with site development?

(Please Circle) Yes ☒ No ☐

If yes, please indicate depth and extent of cuts/fills; describe fill types.

Cuts and fills will be performed along much of the embankment's length, as shown on the site plan. Permanent cuts will be up to 5 feet and supported by either a gabion or mechanically stabilized earth (MSE) wall (see attached Geotechnical Memorandum). Temporary cuts may be as high as 10 feet involving slopes as steep as 1H:1V. Fills will consist of earthen embankments and an MSE wall. Both types of fill will consist of granular fill materials, either imported to the site, or repurposed from the excavation. The MSE wall will be reinforced using polymeric geogrid and will be constructed with a vertical face. The embankment will be unreinforced and constructed with a slope of 2H:1V.

5. In your opinion, will the proposed earthwork cause potential stability problems for the subject and/or adjacent properties?

(Please Circle) Yes ☐ No ☒ See attached Geotechnical Memorandum

IF YES, EXPRESS PROBABILITY:

(Please Circle) Very Probable ☐ Possibly ☐ Possible, but remote ☐

If Very Probable or Possibly, please explain.

6. In your opinion, will the proposed development (structures, foundations, parking area, streets, etc.) create potential stability problems for the subject and/or adjacent properties?

(Please Circle)

Yes

☒ No

See attached Geotechnical Memorandum

IF YES, EXPRESS PROBABILITY:

(Please Circle)

Very Probable

Possibly

Possible, but remote

If Very Probable or Possibly, please explain.

7. In your opinion would the subsurface disposal of sewage effluent on the site (i.e., drain fields) have an adverse affect on stability of the site or adjacent area?

(Please Circle)

Yes

☒ No

No sewage effluent will be disposed of on the site

IF YES, EXPRESS PROBABILITY:

(Please Circle)

Very Probable

Possibly

Possible, but remote

If Very Probable or Possibly, please explain.

8. If answer is Very Probable or Possibly to questions 4 or 5, is it your opinion, on the basis of a visual evaluation, that adequate stability might be achieved by preferred siting of the development, alternative foundation support, earthwork, drainage, etc.?

(Please Circle)

Yes

No

If yes, please explain.

9. Do you recommend additional geotechnical studies (i.e., mapping, testing pits or borings, stability analysis, etc.) prior to site development?

(Please Circle)

Yes

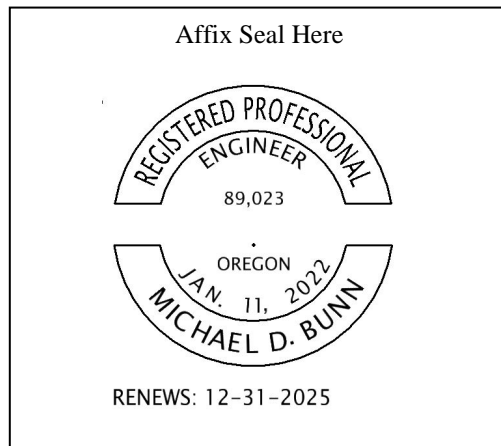
☒ No

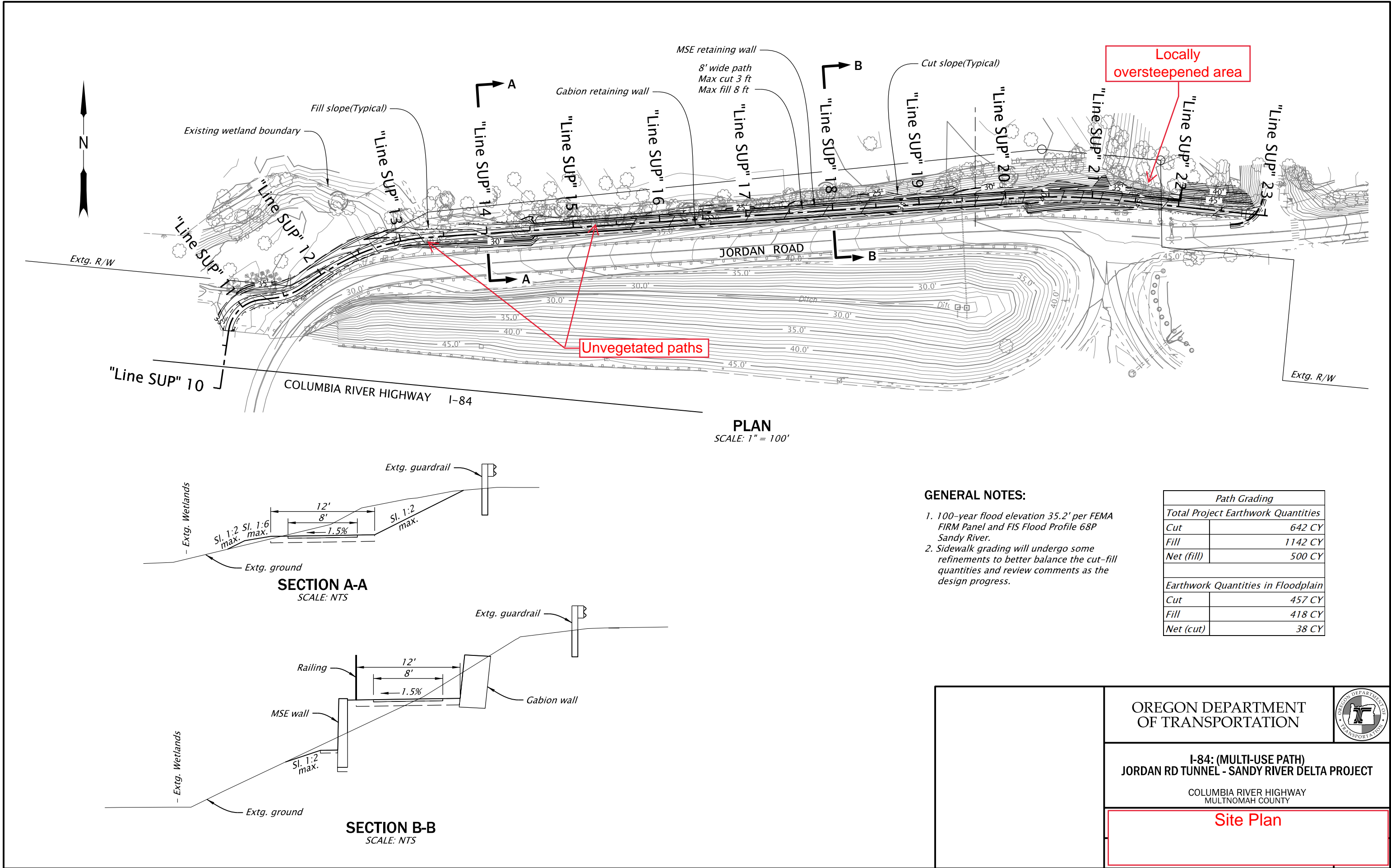
If yes, please explain.

*By signing and affixing the required stamp below, the Certifying Engineering Geologist or Geotechnical Engineer certifies that the site is suitable for the proposed development.*

Signature Michael D. Bunn

Date 7/22/2024





# Geotechnical Memorandum

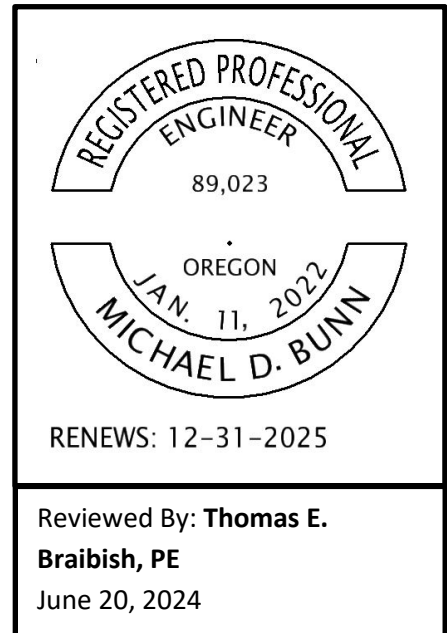
**I-84 Multi-Use Path: Jordan Rd. Tunnel to Sandy River Delta  
I-84 Columbia River Highway (No. 002) MP 18.0  
Multnomah County  
Key 23428**

**Date:** June 21, 2024

**To:** Terra Lingley  
Columbia River Gorge National Scenic Area  
Coordinator

**From:** Michael Bunn, PE  
Geotechnical Engineer  
Region 1 Geo/Hydro/HazMat Unit

**Subject:** Geotechnical Reconnaissance and Preliminary  
Stability Study I-84 Multi-Use Path along  
Jordan Road



## Purpose

The purpose of this memorandum is to support the Multnomah County Geologic Hazards Permit application for the I-84 Multi-Use Path: Jordan Road Tunnel to Sandy River Delta project. This project will design and construct a multi-use path parallel to Jordan Road from the I-84 pedestrian tunnel to the Sandy River Delta. The new trail will replace an existing informal gravel trail (Figure 1).

For most of the trail's roughly 1,000-foot length, Jordan Road sits on a roughly 15- to 25-foot-tall manmade embankment constructed above Sandy River floodplain deposits. Where the trail will be constructed, the embankment slope has gradients varying from as shallow as 4H:1V at the west to as steep as 1.5H:1V at the east. Areas beyond the toe of the embankment are classified as wetland and the entire trail will be constructed completely outside of the wetland boundary. Much of the embankment is below the regulated 100-year flood elevation; therefore, the trail must be designed so that there is no net addition of fill within the floodplain, to meet floodplain management requirements. The design meets these requirements by excavating in some areas of the project to offset fill in other areas of the project.

Over a length of approximately 600 feet at the east end of the trail, steep embankment slopes require the construction of near-vertical walls to accomplish trail grading. Following review of numerous design concepts, the project team has decided on constructing a mechanically



# Geotechnical Memorandum

stabilized earth (MSE) wall on the trail's north side to support trail and a gabion basket wall on the trail's south side to support the slope above the trail (Figure 2). Temporary excavation will need to be performed in constructing both walls.

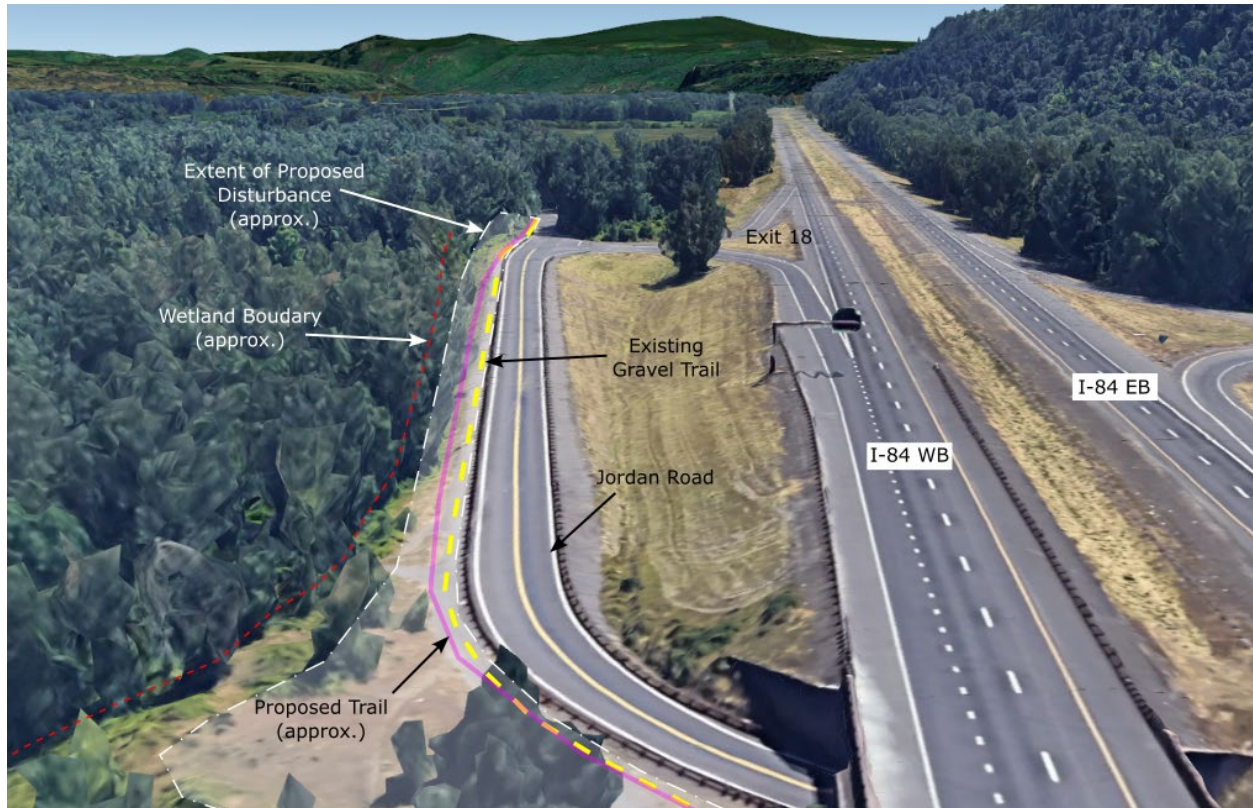


Figure 1: Oblique airborne view east toward the project area.

The new trail segment was the subject of geotechnical investigations during a previous study. The investigations consisted of five geotechnical borings that were performed in the northern lane of Jordan Road. Each boring was advanced to a depth of approximately 20 feet, corresponding roughly with the base elevation of embankment fill. Materials encountered in these borings ranged from loose to very dense sand with silt. While not captured in the previous study, geomorphologic interpretation suggests that conditions below the embankment are presumed to be Sandy River alluvial deposits. Borings performed for the I-84 Sandy River Bridge, located near the west end of the proposed trail, indicate that these alluvial deposits consist of interbedded clayey silt and sandy gravel deposits.



# Geotechnical Memorandum

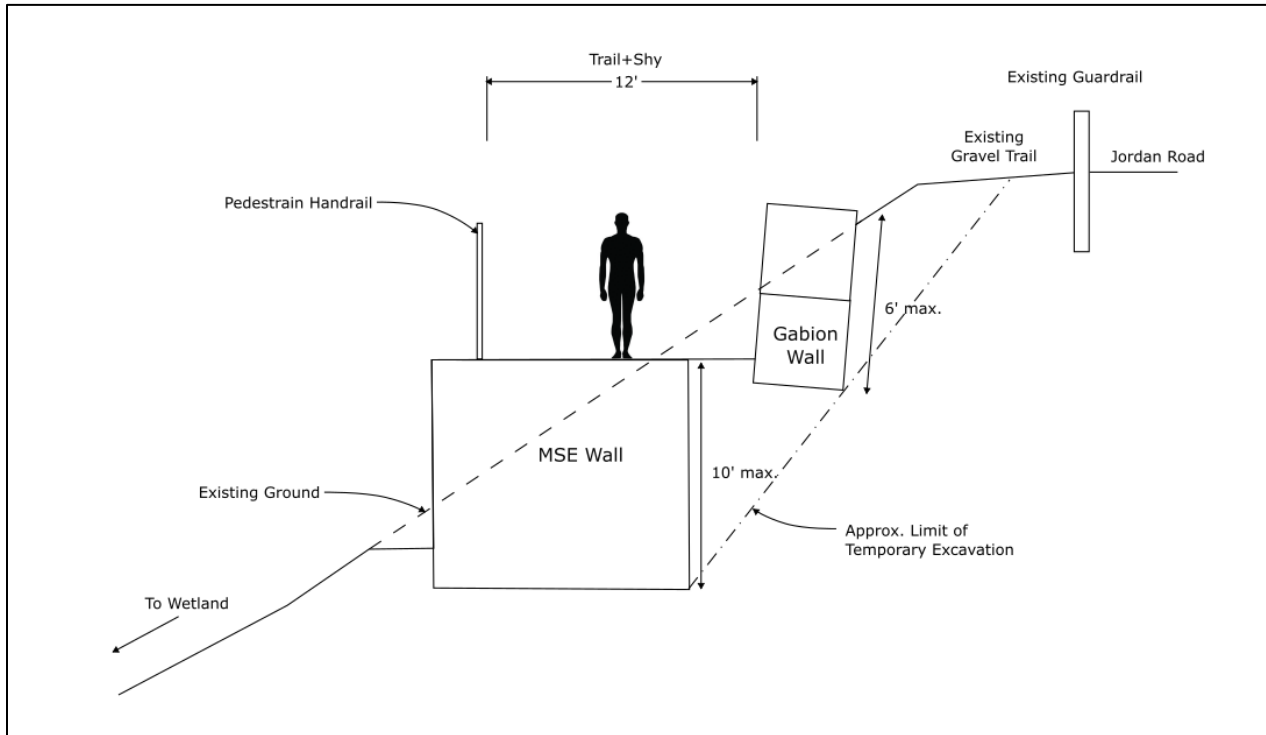


Figure 2: Typical cross section of the trail showing both proposed walls.

Construction will be performed completely within manmade fill that does not have a history of slope instability and is not located in the vicinity of known landslides. To evaluate if the proposed construction and permanent features would impact stability of the embankment, we performed slope stability analyses on several trail cross sections chosen to represent the steepest location along each distinct section of the trail. Our analyses showed that the proposed features would be stable under design loads and 100-year flood conditions. Based on the results of these stability analyses, it is our opinion that the proposed earthwork and site development will not create stability problems for the surrounding facilities.