

# I-205 Improvements: Stafford Rd to OR 213 Phase 1A



Phase 1A Constructability Review Presentation  
July 12, 2021

I-205 IMPROVEMENTS  
Stafford Road to OR 213



# Agenda

- 8:30 am – 8:40 am Introductions and Meeting Overview
- 8:40 am – 10:00 am Key Topics For Discussion
  - I-205 Improvements Overview
  - Phased Project Delivery
  - Schedule
  - Cost Estimate
  - Phase 1A Improvements Overview
  - Agency and Adjacent/Regional Project Coordination
  - Abernethy Bridge
  - Phase 1A Overall Construction Staging
  - A+C+D Procurement
  - Contracting
  - Diversity Programs and Opportunities
- 10:00 am – 10:30 am Q&A, Other opportunities

# Introductions

## ODOT

Allen Hendy, Resident Engineer Consultant Projects

Zach Davis, VE/Project Risk Engineer

Peter Kennedy, Program Coordinator/VE Risk Constructability

Joe Wolf, Senior Estimator

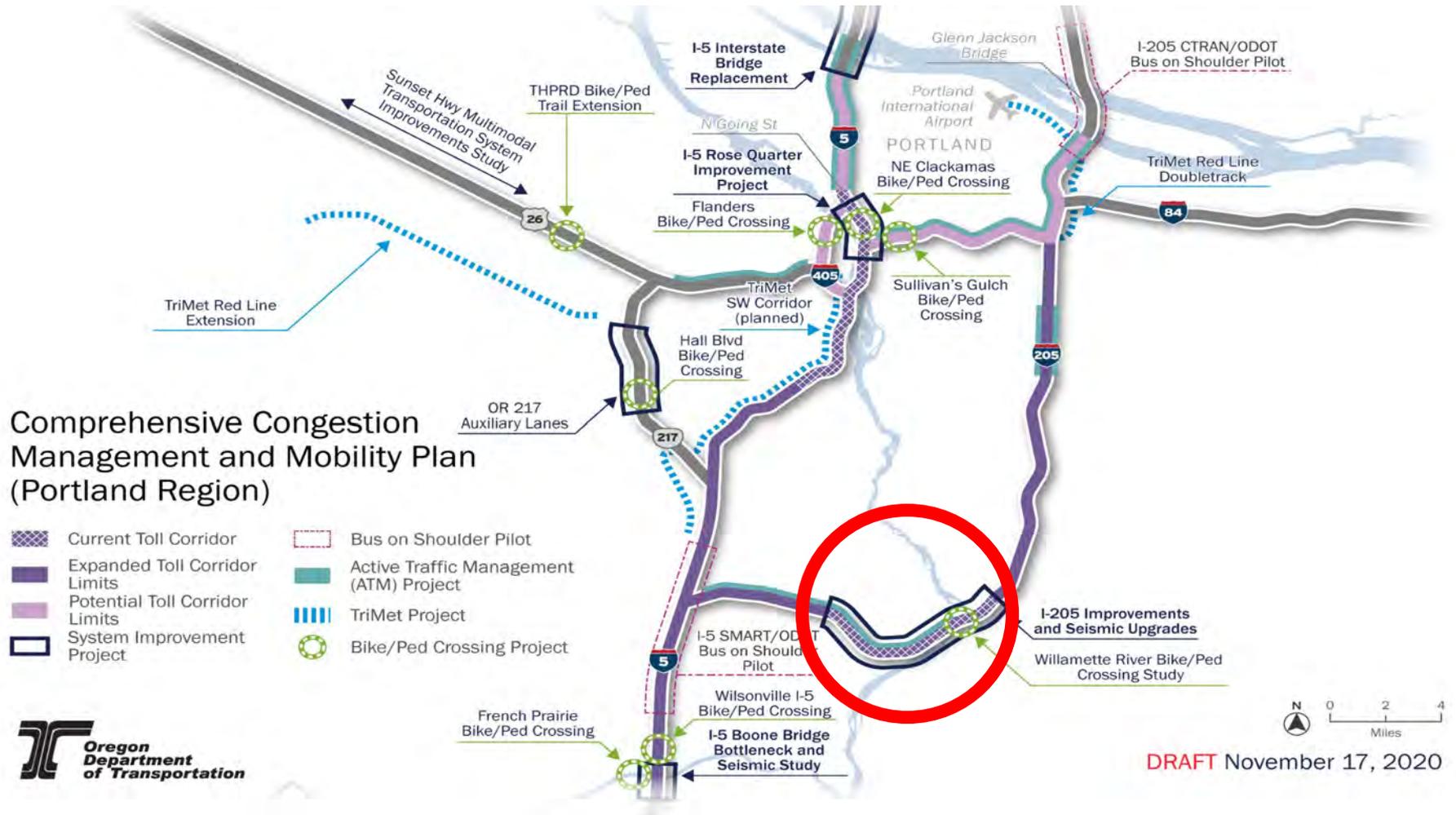
## Consultant Team

Stephanie Serpico, HDR Engineering, Project Manager

Jason Rahm, HDR Engineering, Professional of Record

Jeff Olson, Quincy Engineering, Project Bridge Lead

# Portland Region Comprehensive Approach



**I-205 IMPROVEMENTS**  
Stafford Road to OR 213



# Benefits of I-205 Improvements

*Improving our economy – reliable, safer, earthquake-ready travel on I-205.*



## Earthquake-Ready Bridges

- Strengthened Abernethy Bridge and 8 other bridges will improve our region's ability to recover quickly after a major earthquake.



## Fewer Crashes

- Improved interchanges and on- and off-ramps will make travel safer, resulting in fewer crashes.



## Reduced Congestion and Travel Times

- Additional travel lane in each direction will make travel faster and more predictable.

# Phased Project Delivery



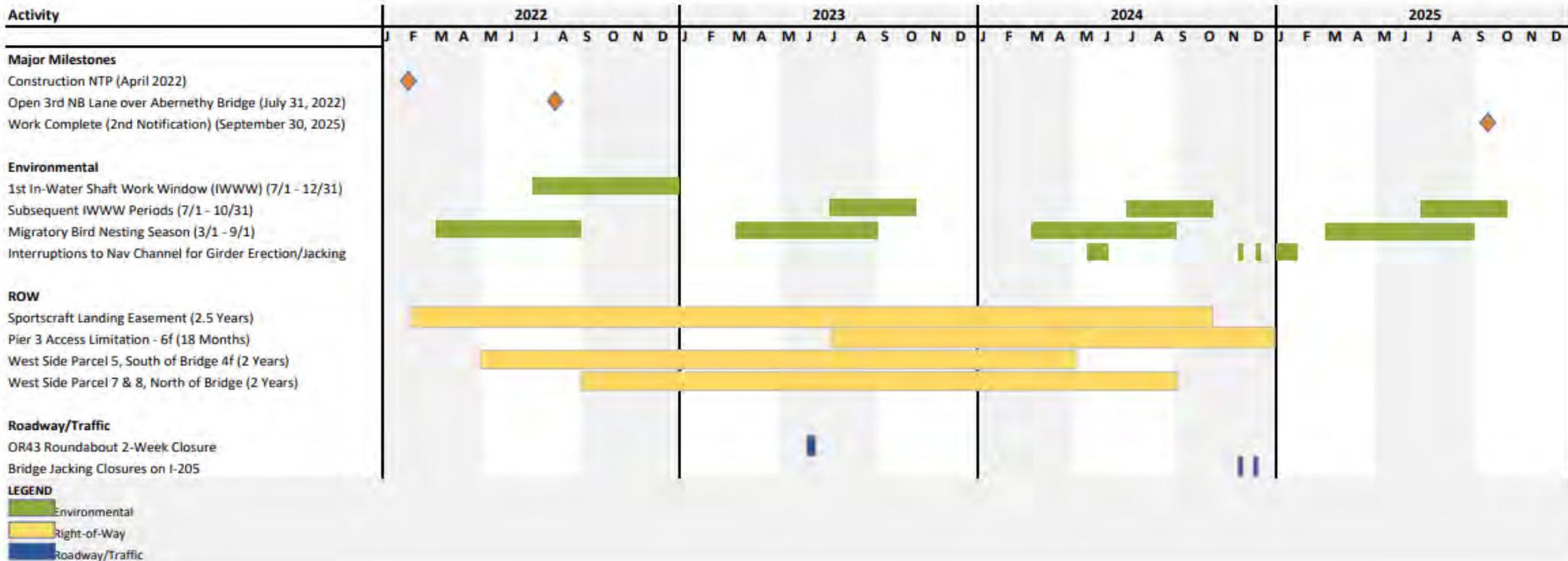
# Phase 1 Schedule



- Scheduling of Phases 1B, 1C and 1D is currently tentative and will be refined fall 2021.

# Phase 1A Schedule

## I-205 Widening Phase 1A: Abernethy Bridge PRELIMINARY - NOT FOR CONSTRUCTION



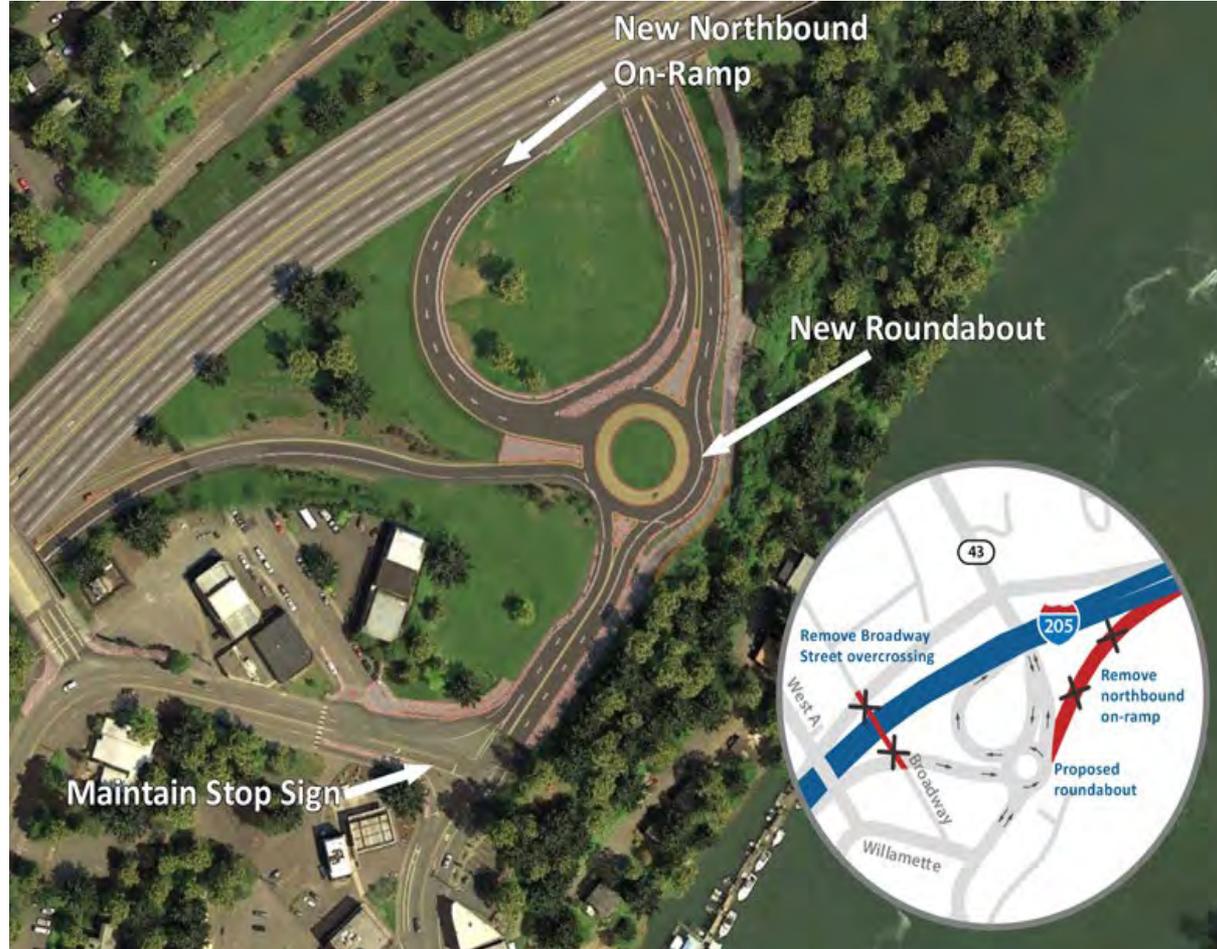
# Phase 1A Cost Estimate

- Phase 1A cost estimate ~ \$300-350 million
- Price component of bids due early March 2022

# Phase 1A Improvements Overview



# Roundabout at OR43



## OR 43

- New roundabout
- New multi-use path along OR 43 to Willamette Falls Drive
- New rapid flashing beacon and crosswalk across OR 43 to Willamette Falls Drive and West A Street

# Agency Coordination

## **WES Sewer Force Main**

- Addition of new 20" pipe on south side (NB, outside edge) Abernethy Bridge
- Constructed with Phase 1A

## **City of Oregon City**

- Jon Storm Park and Sportscraft Boat Ramp Park impacts and easement coordination
- Clackamette Drive improvements and coordination
- Traffic control and detour

## **City of West Linn**

- 24" sewer line adjacent to Pier 8 and ground improvements (north side of SB exit ramp)
- 30" waterline on Abernethy Bridge
- Traffic control and detour

# Adjacent & Regional Project Coordination

## West Linn

- RAB at OR43 and SB I-205 (future), Willamette Falls Dr. and Sunset Ave. (future), 10th St. improvements project (future)

## WES Outfall

- New 90" steel pipe will run from the Tri-City facility parallel to I-205, under OR99E off ramp, continue under Jon Storm Park and discharge in ~200' north of Abernethy.
- Proposed CN Spring 2023 (D/B)

**Phase 1B construction** – set to start while Phase 1A in progress

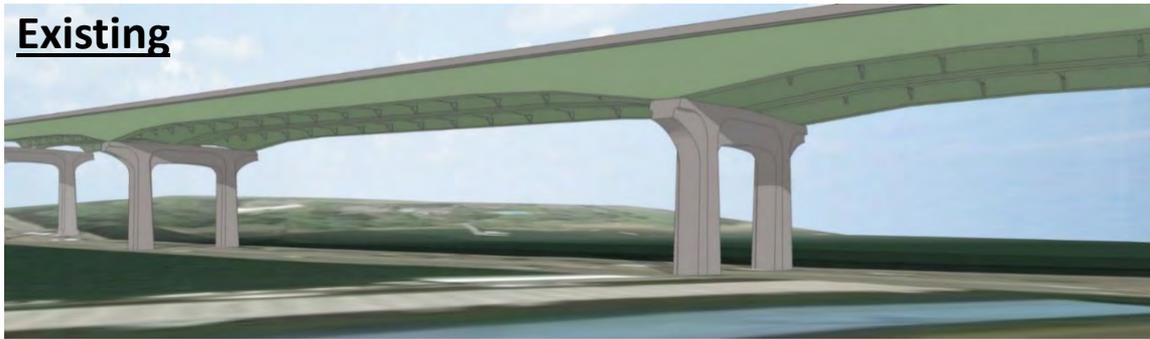
**Tolling** – gantries for future tolling

**Rose Quarter Improvements** – coordination of construction activities

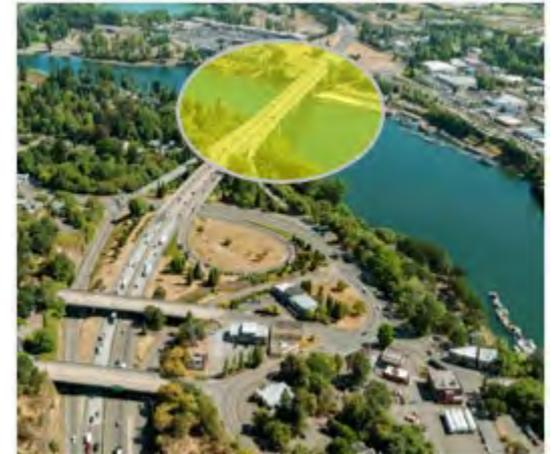
# Abernethy Bridge: Overview



Existing

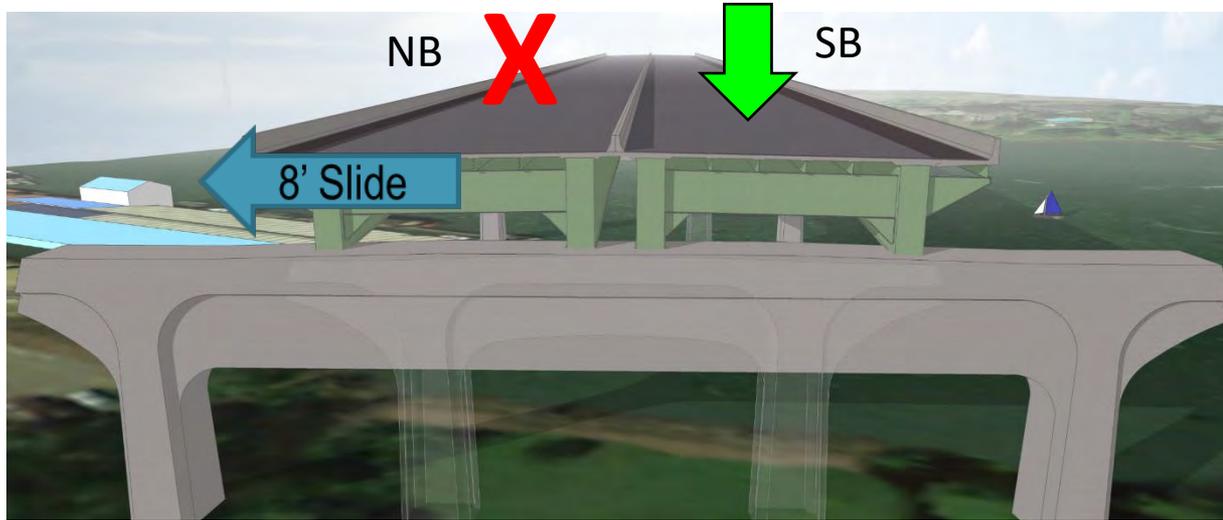


Proposed

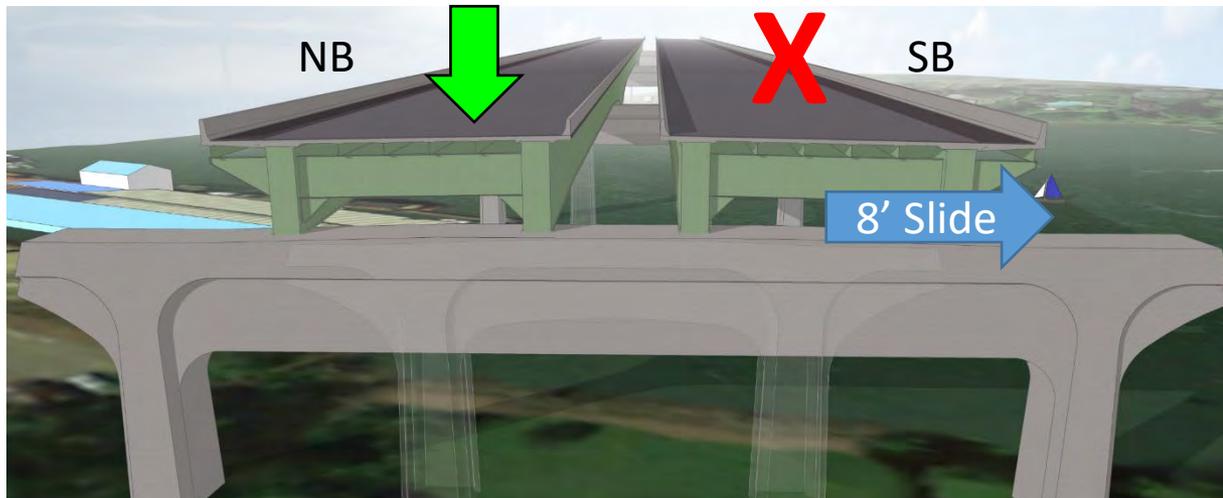


# Abernethy Bridge Construction Staging

1: Widen each side and slide one direction

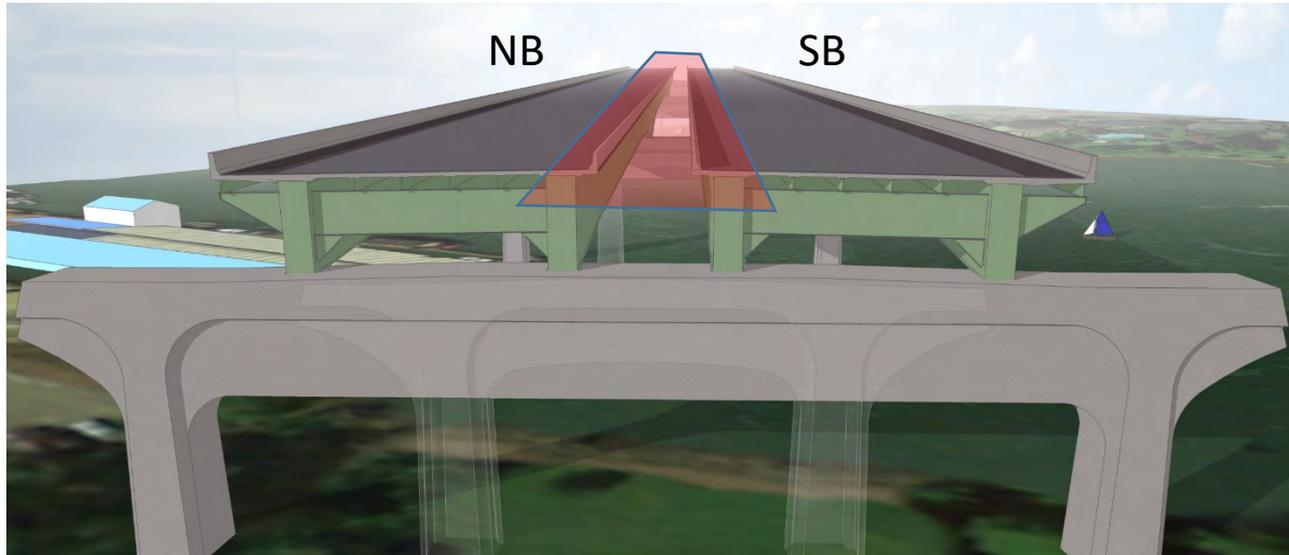


2: Slide the other direction



# Abernethy Bridge Construction Staging

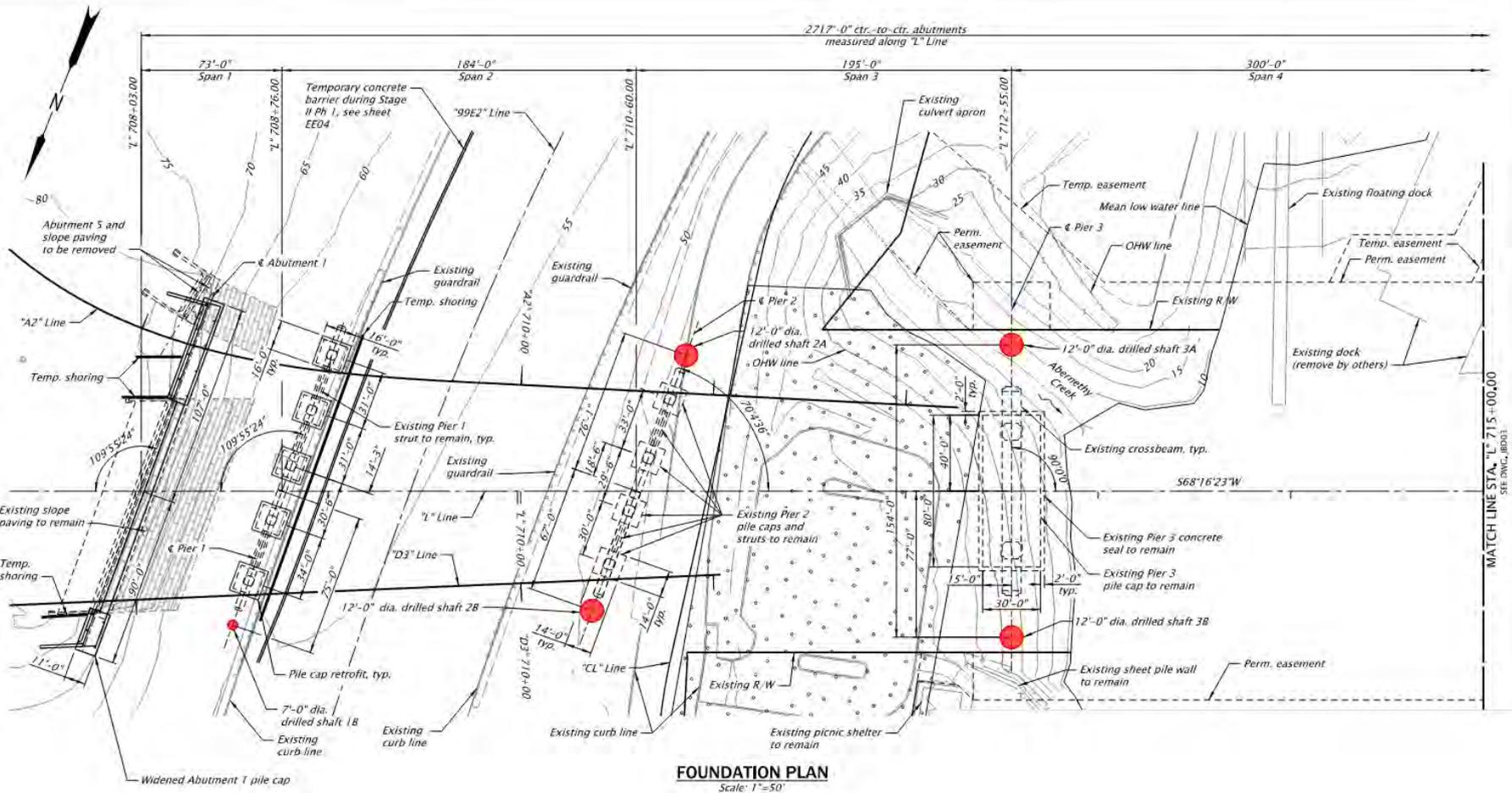
**3: Construct  
the interior  
widening**



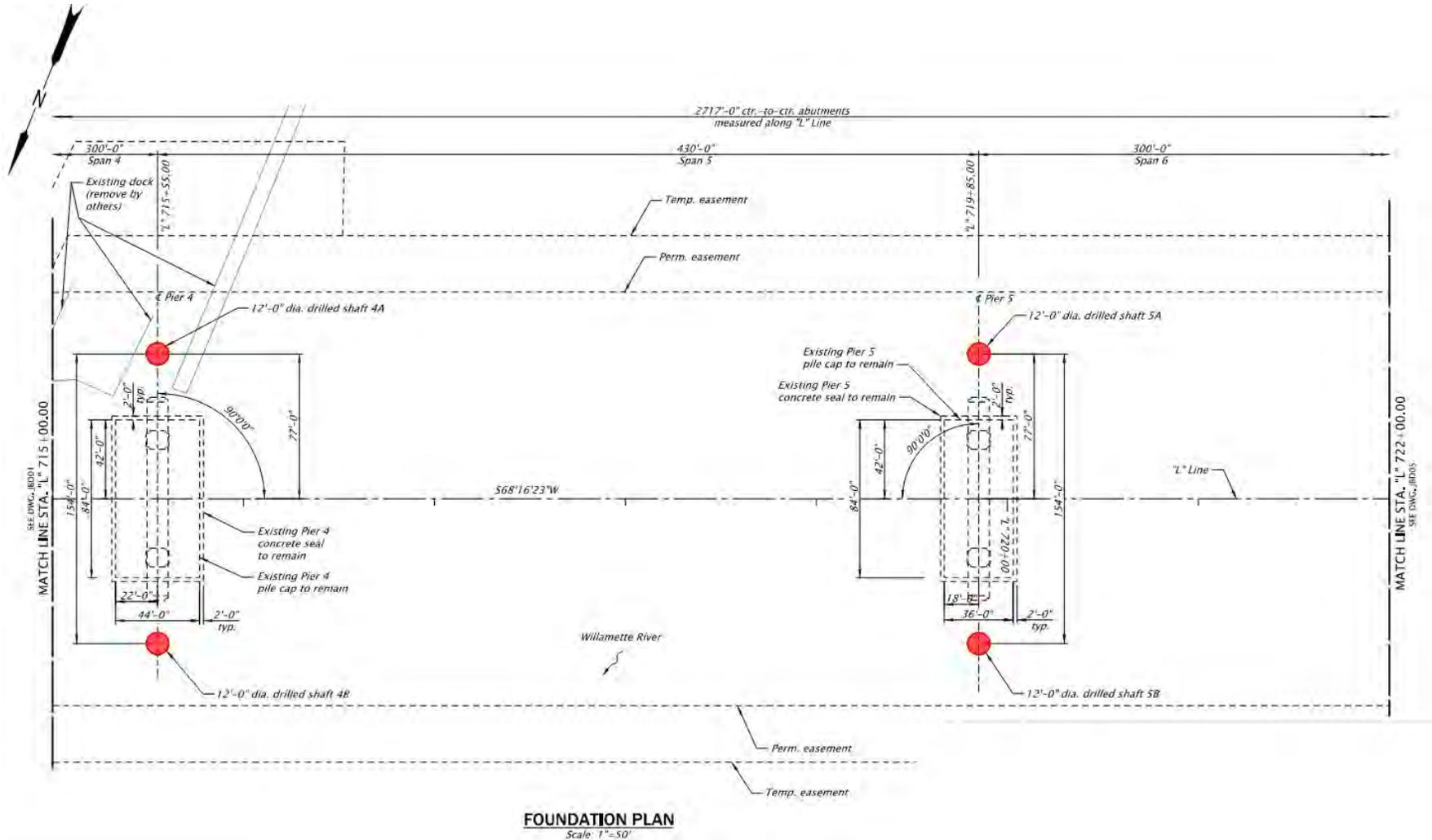
NB

SB

# Abernethy Bridge: Foundations



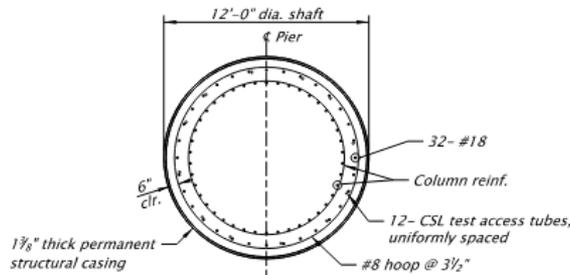
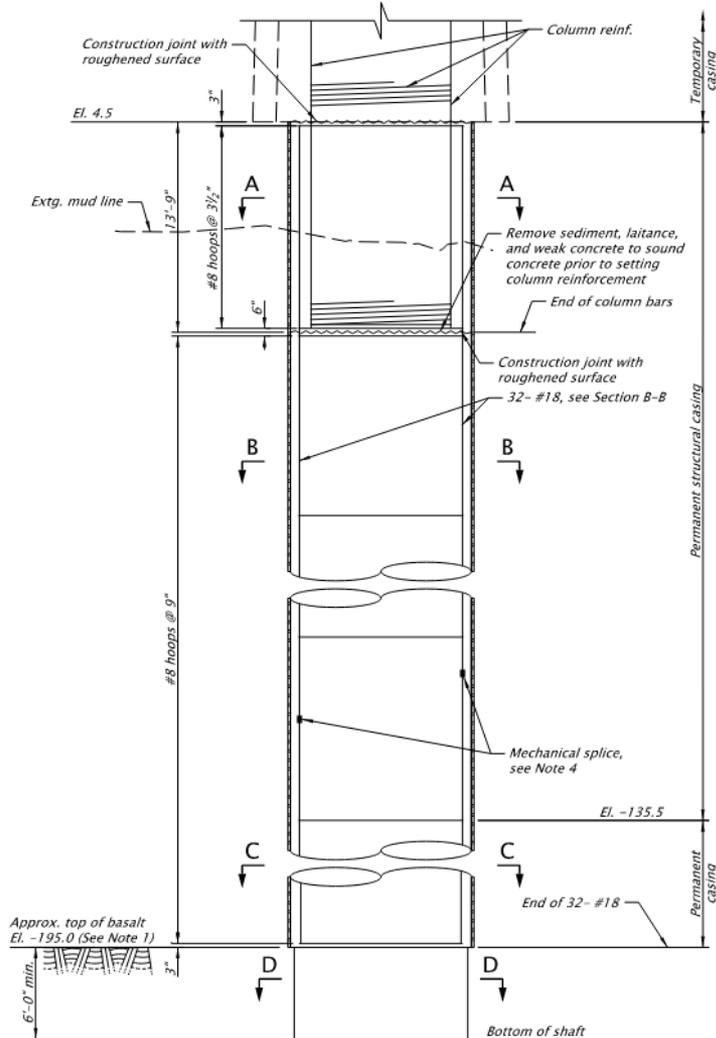
# Abernethy Bridge: Foundations





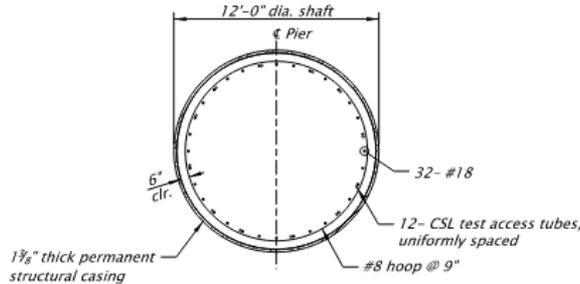


# Abernethy Bridge: Drilled Shafts



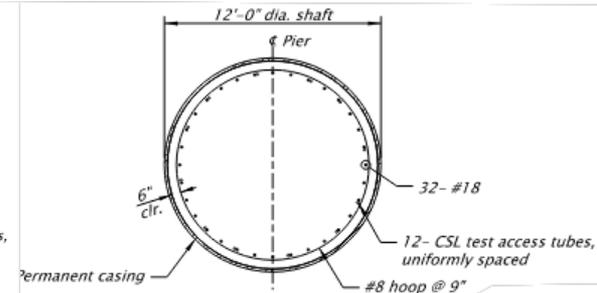
**SECTION A-A**

Scale: 1/8"=1'-0"



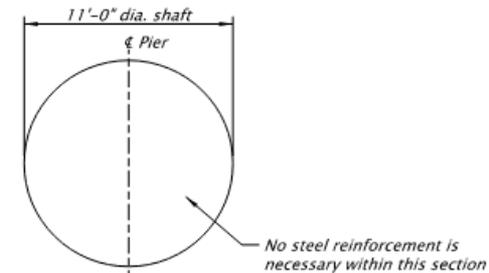
**SECTION B-B**

Scale: 1/8"=1'-0"



**SECTION C-C**

Scale: 1/8"=1'-0"



**SECTION D-D**

Scale: 1/8"=1'-0"

# Abernethy Bridge: Drilled Shafts

12'-0" dia. shafts – 10 total – Approx. 1790 feet total

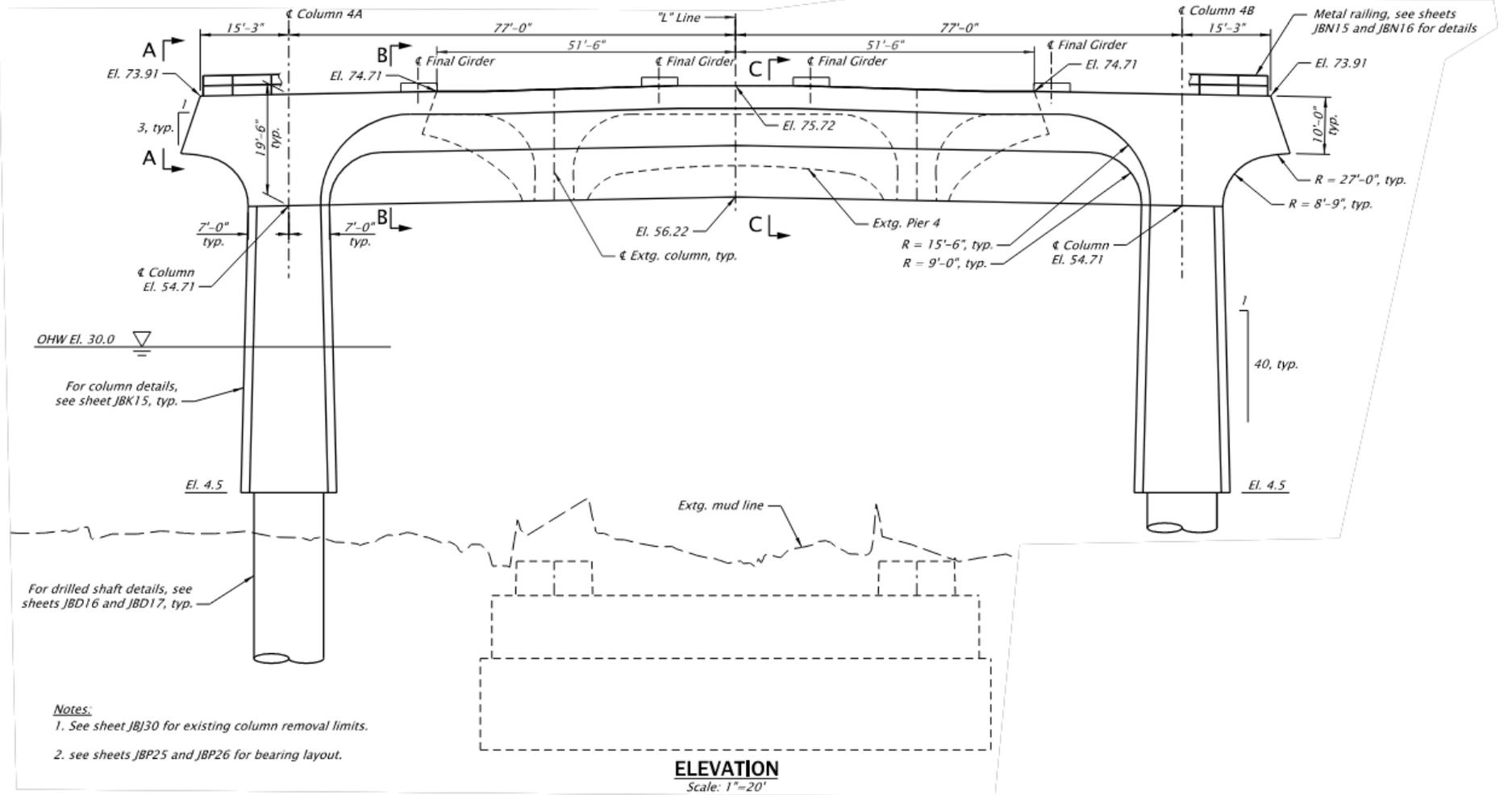
10'-0" dia. shafts – 2 total – Approx. 270 feet total

8'-0" dia. shafts – 9 total – Approx. 1040 feet total

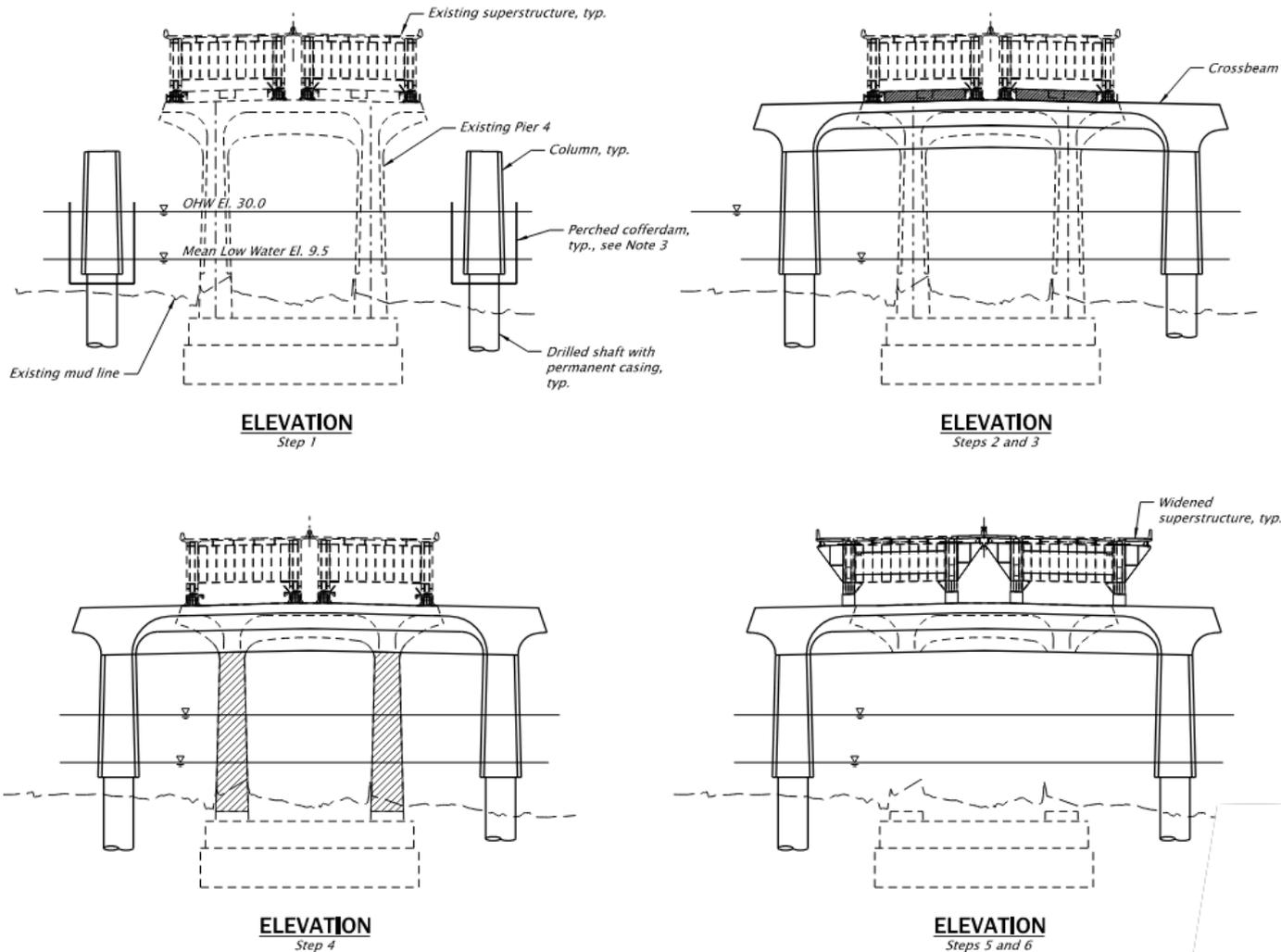
7'-0" dia. shafts – 5 total – Approx. 410 feet total

6'-0" dia. shafts – 2 total – Approx. 100 feet total

# Abernethy Bridge: Drilled Shafts

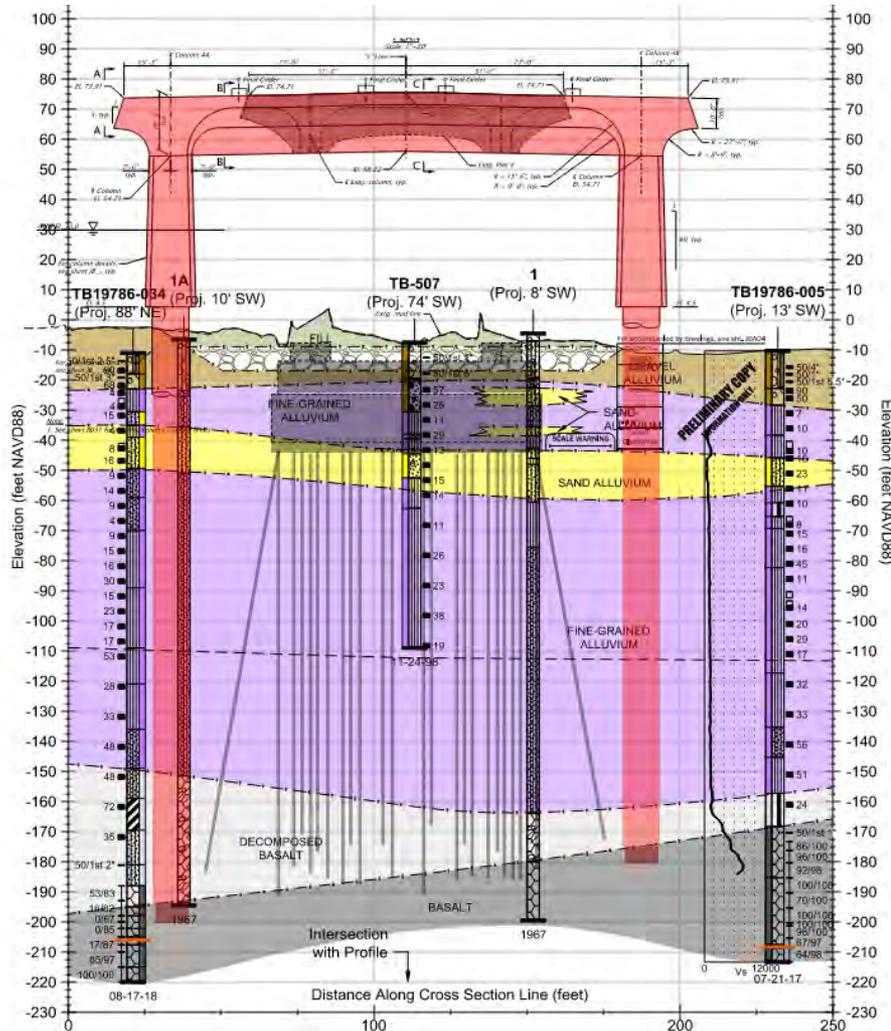


# Abernethy Bridge: Drilled Shafts



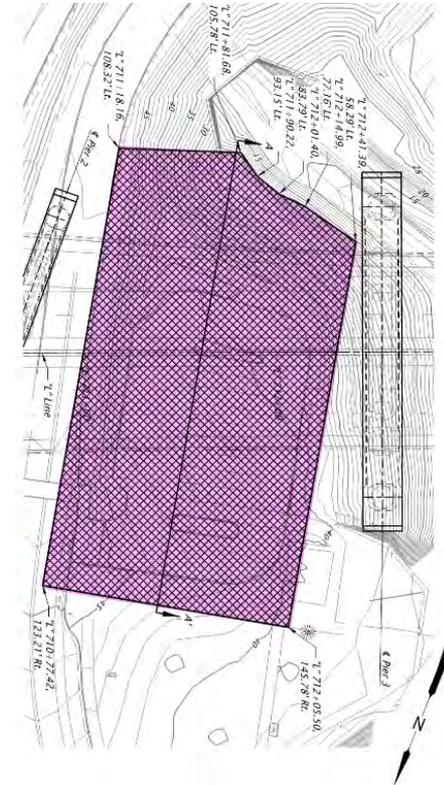
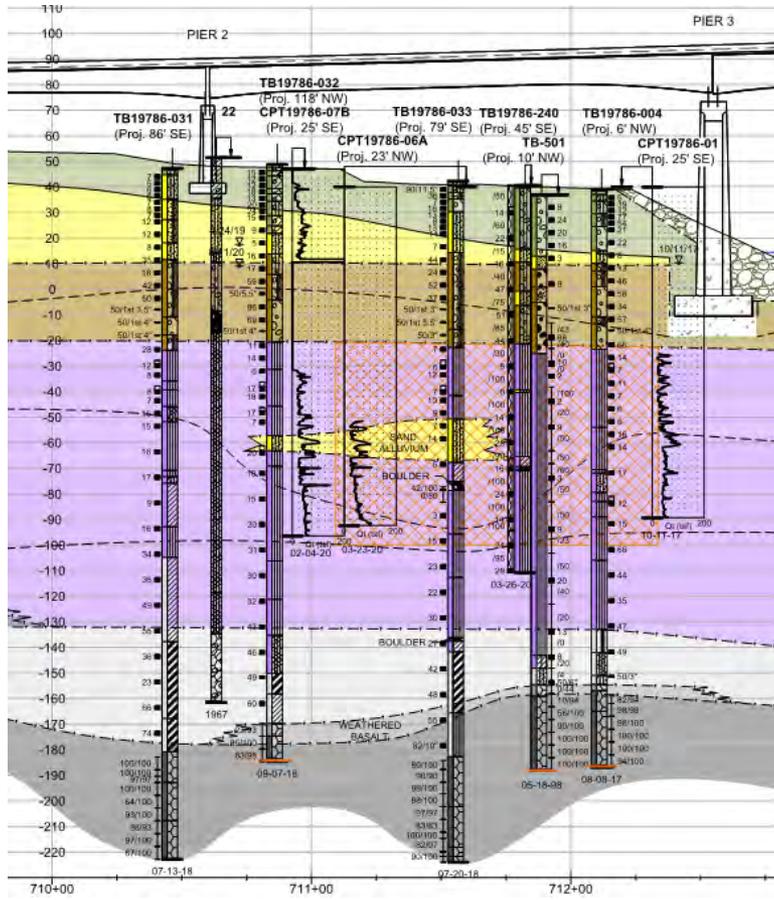


# Drilled Shaft Construction



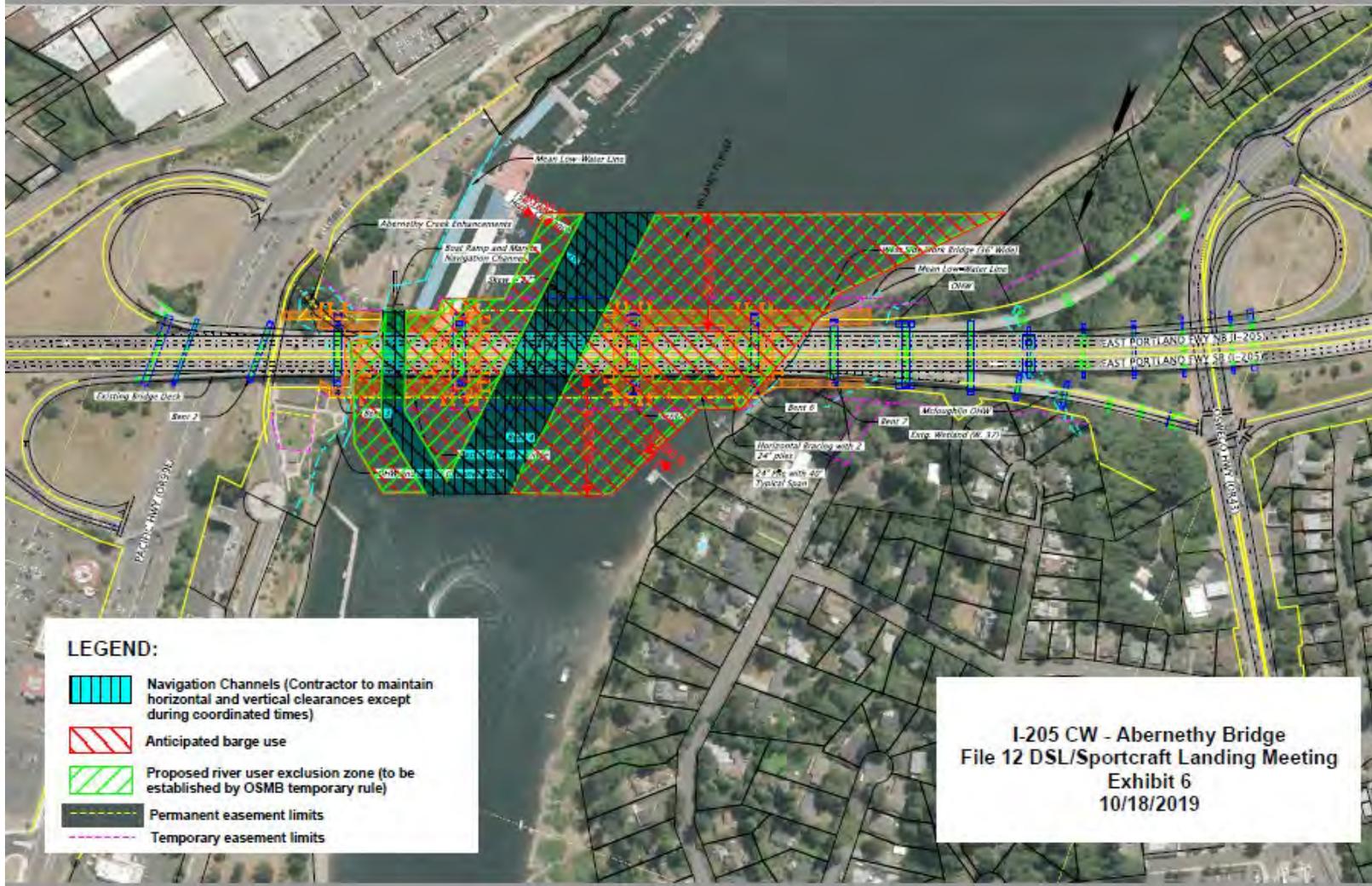
The Agency anticipates this work will require an oscillator to advance the larger diameter casing to the required depths.

# Ground Improvements at Pier 3

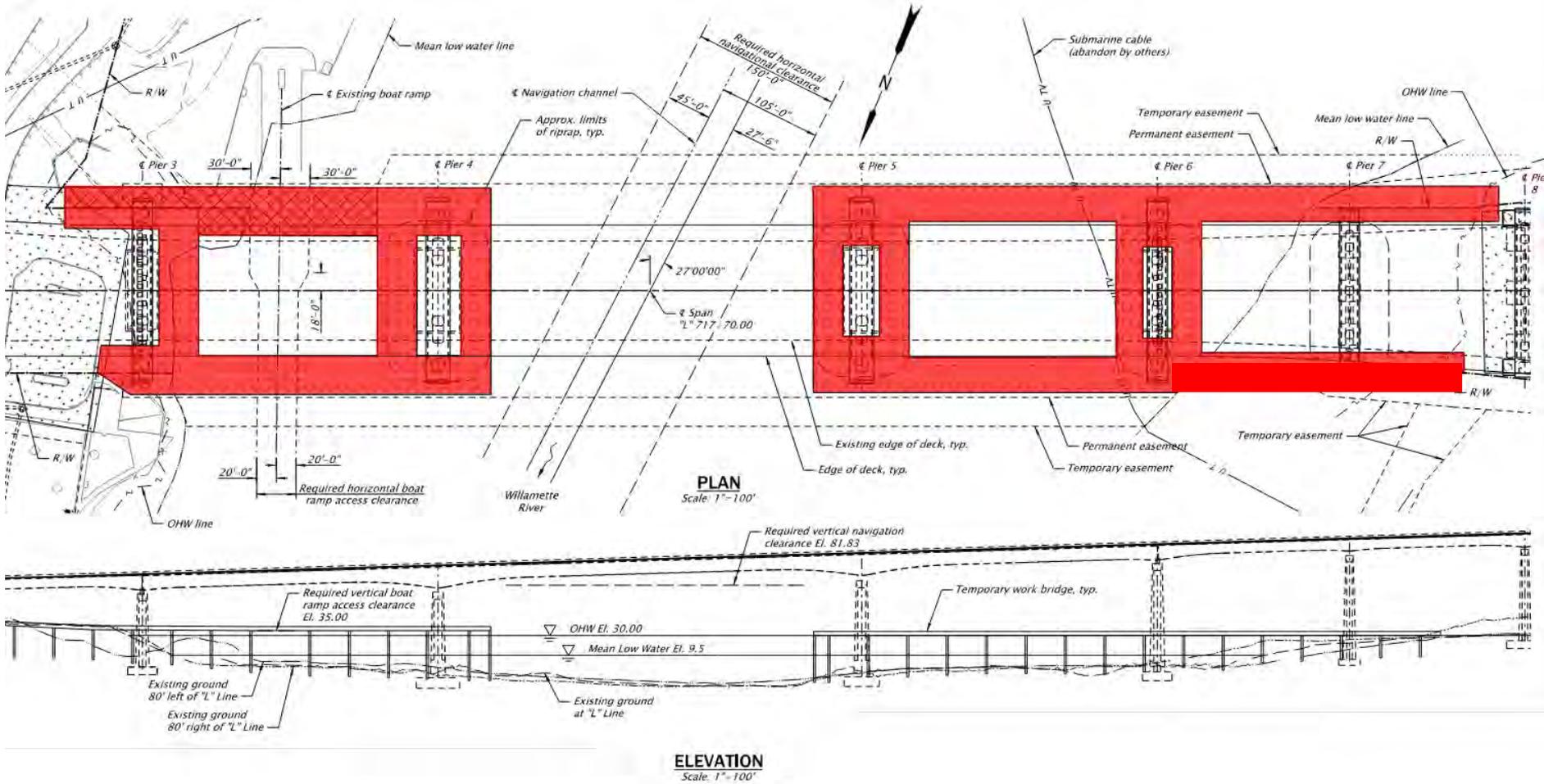




# Work Bridge Areas



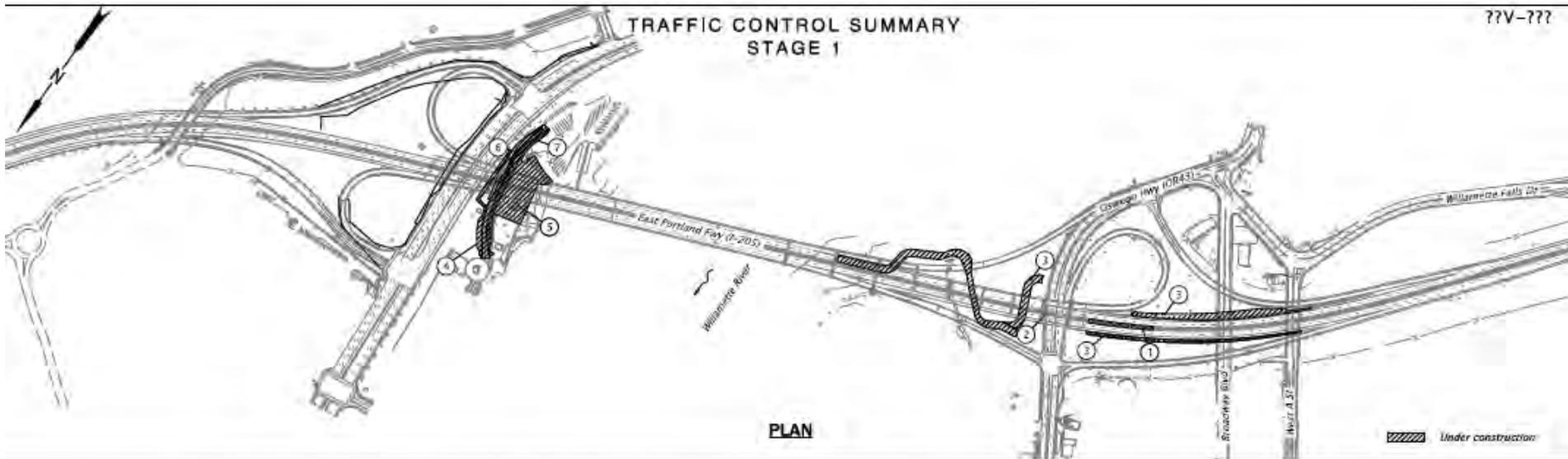
# Work Bridge and Site Access



# Phase 1A Construction Staging

- Stage 1 – Temporary Widening and Construction Access (2022)
- Stage 2 – OR43 Interchange Ramp Reconfiguration and Roundabout (2022-2023)
- Stage 3 – OR99E NB Ramps, and Abernethy Bridge Widening (2023- 2024)
- Stage 4 – OR99E Southbound Ramps and Abernethy Bridge Widening (2023- 2024)
- Stage 5 – Abernethy Bridge Translation and Median Superstructure (2023- 2025)

# Stage 1 – Temporary Widening and Construction Access (2022)



Phase	Description	Plan Sheets	Closure(s)	Std, Drg, No(s)	Detour(s)	Detour Sheet(s)
1	- Reconstruct median (fogline to fogline) from West A O-Ring to Sunset O-Ring	EC01	I-205 SE A lane & left shoulder (Night work) I-205 NE A lane & left shoulder (Night work)	TM661 Shld. Closure	None	None
2	- Const. OR43 temp access; temp signal and TPAP	EC02	OR43 NB 8 Lane	TM843 Right Lane Closure	None	None
3	- Continue OR43 temp access - Const. temp widening NB and SE Abnethy Bridge to West A O-Ring	EC03 thru EC05	I-205 SE right shoulder I-205 NB right shoulder	TM661 Shld. Closure	None	None
4	- Const. Clackamette Drive contractor access	EC07	Clackamette Drive lane closure	TM841 One Lane Closure	None	None
5	- Const. Clackamette Drive west side	EC08	Clackamette Drive lane closure	TM841 One Lane Closure	None	None
6	- Const. Clackamette Drive east side	EC09	Clackamette Drive lane closure	TM841 One Lane Closure	None	None
7	- Const. Clackamette Drive final paving	EC10	Clackamette Drive lane closure	TM841 One Lane Closure	None	None

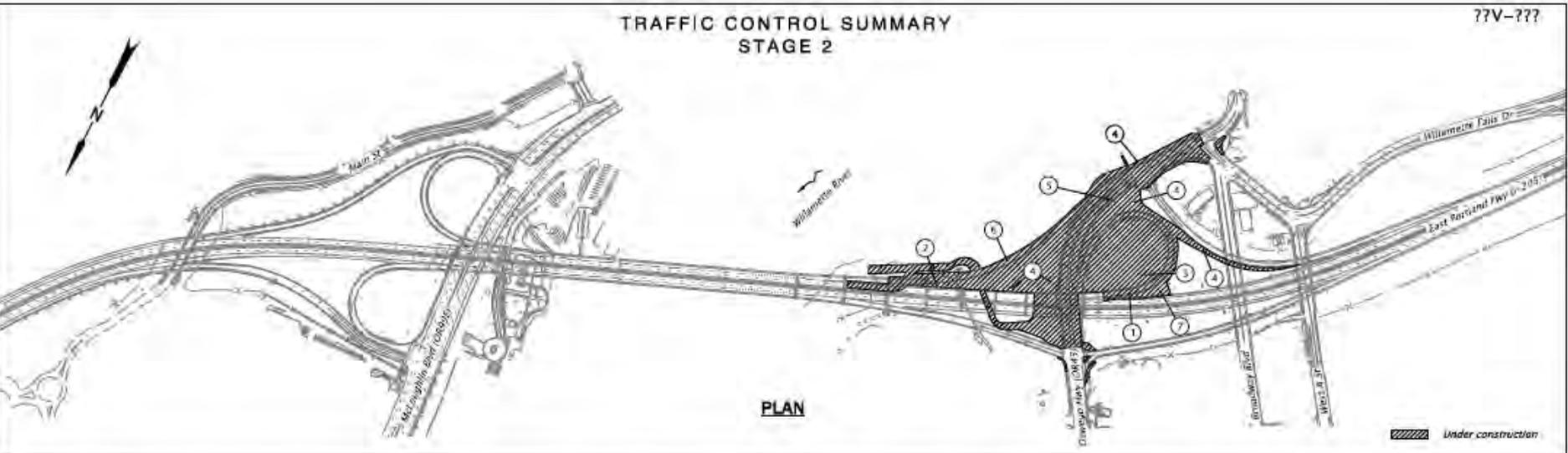
**STAGE 1 ACTIVITY MATRIX**

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 SHEET NO.  
 EAD01

TRAFFIC CONTROL SUMMARY

# Stage 2 – OR43 Interchange Ramp Reconfiguration and Roundabout (2022-2023)



Phase	Description	Traffic Control Plan	Closure(s)	Std. Drg. No(s)	Detour(s)	Detour Sheet(s)
①	- Const. gore transition for I-205 NB Entrance Ramp at OR43	ED01 thru ED04, ED22	I-205 NB Entrance Loop Ramp (Night Work)	TM840 Road Closure	I-205 NB Entrance Loop Ramp at OR43 Closure	EB01
②	- Const. gore closure prior for I-205 NB flip ramp (span of piers 9-10) at OR43	ED05 & ED22	I-205 NB Entrance Ramp (5 day closure)	TM840 Road Closure	I-205 NB Entrance Ramp at OR43 Closure	EB04
③	- Const. new NB I-205 loop ramp at OR43	ED06 thru ED08, ED22	OR43 SR 8 Lane (Weekend closure) I-205 NB Entrance Loop (Weekend closure)	TM840 Road Closure TM841 Right Lane Closure	I-205 NB Entrance Loop Ramp at OR43 Closure	EB01
④	- Const. new NB I-205 exit loop at OR43, portions of the roundabout, and OR43 pedestrian facility	ED09 thru ED11, ED22	I-205 NB exit ramp to OR43 left shoulder OR43 shoulders	TM841 Shld. Closure TM861 Shld. Closure	None	None
⑤	- Const. remainder of roundabout	ED12 thru ED16, ED22	I-205 NB exit ramp to OR43 (3 week closure) OR43 closed from Wilamette Falls Dr to I-205 SB Exit/Entrance ramps (3 week closure)	TM840 Road Closure	I-205 NB entrance ramp at OR43 closure I-205 NB exit ramp at OR43 closure OR43 closure	EB02 EB23 & EB24
⑥	- Remove I-205 NB entrance ramp at OR43	ED17 thru ED19, ED22	I-205 NB Entrance Loop	TM840 Road Closure	None	None
⑦	- Const. NB right shoulder & gore at NB loop ramp	ED20 thru ED21, ED19	I-205 NB right shoulder	TM861 Shld. Closure	None	None

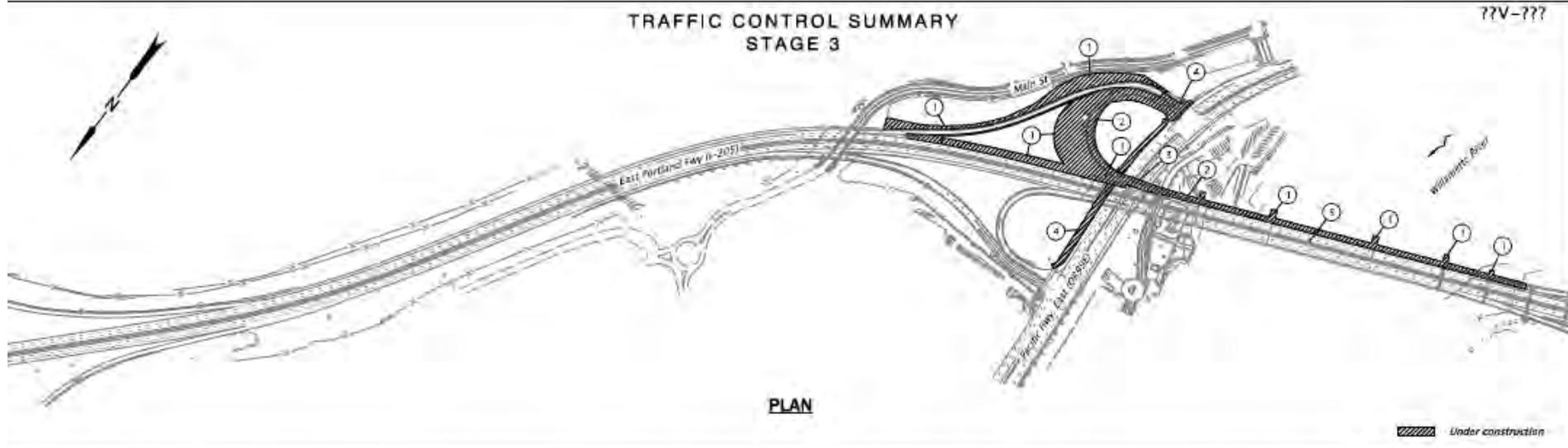
**STAGE 2 ACTIVITY MATRIX**

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EA05

# Stage 3 - OR99E NB Ramps, and Abernethy Bridge Widening (2023- 2024)



Phase	Description	Plan Sheets	Closure(s)	Std. Org. No(s)	Detour(s)	Detour Sheet(s)
①	- Const. temp exit ramp for I-205 NB exit at OR99E - Const. Main St. retaining wall - Const. NB Abernethy substructure	EE01 thru EE05, EE15	I-205 NB right and left shoulders I-205 NB exit ramp at OR99E (Night closure) I-205 NB entrance ramp at OR99E (Night closure) NB OR99E turn lane storage to SB I-205 loop ramp Main St. lane closure	TM840 Road Closure TM843 Right Lane Closure TM861 Shld. Closure	I-205 NB exit ramp at OR99E I-205 NB entrance ramp at OR99E	EB06 & EB07
②	- Const. new NB I-205 exit ramp at OR99	EE06 thru EE10, EE15	I-205 NB right and left shoulders Main St. lane closure	TM850 Lane Closure TM861 Shld. Closure	None	None
③	- Const. Abernethy superstructure widening over OR99E	EE11 & EE13	Main St (Night closure to set beams) OR99E (Night closure to set beams)	TM840 Road Closure	Main St. (Night closure) OR99E (Night closure)	EB15 EB20 thru EB22
④	- Completes Abernethy NB Superstructure work - Final ramp cleanup, ramp terminals, and OR99E NB ped construction.	EE12 thru EE15	I-205 NB right and left shoulders I-205 NB exit ramp to OR99E I-205 NB entrance ramp to OR99E	TM840 Road Closure TM861 Shld. Closure	None	EB06 & EB07
⑤	- End of stage 3 striping	EE16 thru EE19	None	None	None	None

**STAGE 3 ACTIVITY MATRIX**

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# Stage 4 – OR99E Southbound Ramps and Abernethy Bridge Widening (2023- 2024)

## TRAFFIC CONTROL SUMMARY STAGE 4

??V-???



PLAN

Under construction

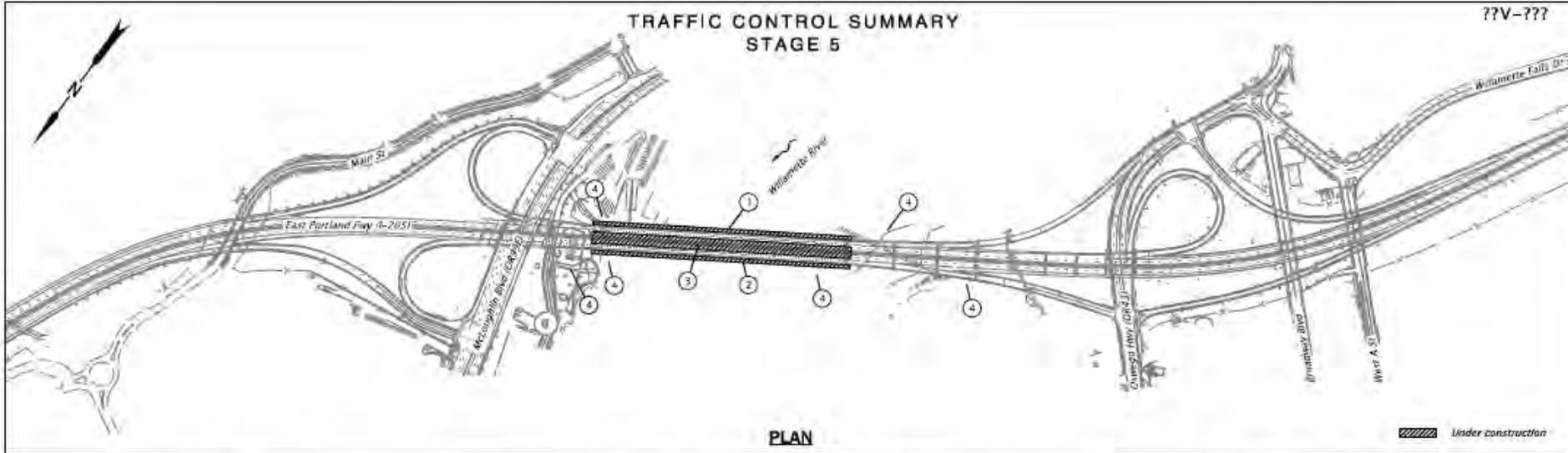
Phase	Description	Plan Sheets	Closure(s)	Std. Drg. No(s)	Detour(s)	Detour Sheet(s)
①	<ul style="list-style-type: none"> <li>Const. SB mainline widening at SB entrance ramp widening at OR99E</li> <li>Const. SB Abernethy OR43 land span substructure and superstructure widening on north side.</li> <li>Const. SB Abernethy river span substructure</li> <li>Const. superstructure widening after foundations are complete</li> </ul>	EF01 thru EF04	<ul style="list-style-type: none"> <li>I-205 SB right and left shoulders</li> <li>I-205 SB exit ramp at OR99E (Night closure)</li> <li>I-205 SB entrance ramp at OR99E (Night closure)</li> <li>I-205 SB exit ramp at OR43 (Night closure)</li> </ul>	<ul style="list-style-type: none"> <li>TM840 Road Closure</li> <li>TM861 Sbl'd. Closure</li> </ul>	<ul style="list-style-type: none"> <li>I-205 SB exit ramp at OR99E</li> <li>I-205 SB entrance ramp at OR99E</li> <li>I-205 SB exit ramp at OR43</li> </ul>	EB05, EB08 and EB10
②	<ul style="list-style-type: none"> <li>Const. I-205 SB exit ramp at OR43 gore substructure and superstructure widening.</li> </ul>	EF05 thru EF08	<ul style="list-style-type: none"> <li>I-205 SB right and left shoulders</li> <li>I-205 SB exit ramp at OR43</li> </ul>	<ul style="list-style-type: none"> <li>TM840 Road Closure</li> <li>TM861 Sbl'd. Closure</li> </ul>	<ul style="list-style-type: none"> <li>I-205 SB exit ramp at OR43</li> </ul>	EB05
③	<ul style="list-style-type: none"> <li>Const. superstructure widening over OR99E</li> <li>Const. superstructure widening over OR43</li> </ul>	EF09 & EF10	<ul style="list-style-type: none"> <li>OR99E (Night closure to set beams)</li> <li>OR43 (Night closure to set beams)</li> </ul>	<ul style="list-style-type: none"> <li>TM840 Road Closure</li> </ul>	<ul style="list-style-type: none"> <li>OR99E (Night closure)</li> <li>OR43 (Night closure)</li> </ul>	EB20 thru EB22
④	<ul style="list-style-type: none"> <li>Const. soundwall and SB footings for OH signing</li> </ul>	EF11 thru EF14	<ul style="list-style-type: none"> <li>I-205 SB right and left shoulders</li> </ul>	<ul style="list-style-type: none"> <li>TM861 Sbl'd. Closure</li> </ul>	None	None

### STAGE 4 ACTIVITY MATRIX

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# Stage 5 – Abernethy Bridge Translation and Median Superstructure (2023- 2025)



Phase	Description	Plan Sheets	Closure(s)	Std. Drg. No(s)	Detour(s)	Detour Sheet(s)
①	- Perform NB transverse slide	EG01 thru EG05	I-205 NB Mainline I-205 NB exit ramp at OR99E (Weekend closure) I-205 SB entrance ramp at OR43 (Weekend closure)	TM840 Road Closure	Regional Detour I-205 NB exit ramp at OR99E I-205 NB entrance ramp at OR43	EB05, EB06, EB10 & TRD
②	- Perform SB transverse slide	EG05 thru EG10	I-205 SB Mainline I-205 SB entrance ramp at OR99E (Weekend closure) I-205 SB exit ramp at OR43 (Weekend closure)	TM840 Road Closure	Regional Detour I-205 SB entrance ramp at OR99E I-205 SB exit ramp at OR43	EB05, EB06, EB10 & TRD
③	- Const. river span median superstructure	EG11 thru EG14	I-205 SB & NB mainline shoulders	TM861 Shoulder Closure	None	EB05, EB06, EB10 & TRD
④	- Remove temporary work access - Const. soil amendments	EG15 thru EG20	None	None	None	None

### STAGE 5 ACTIVITY MATRIX

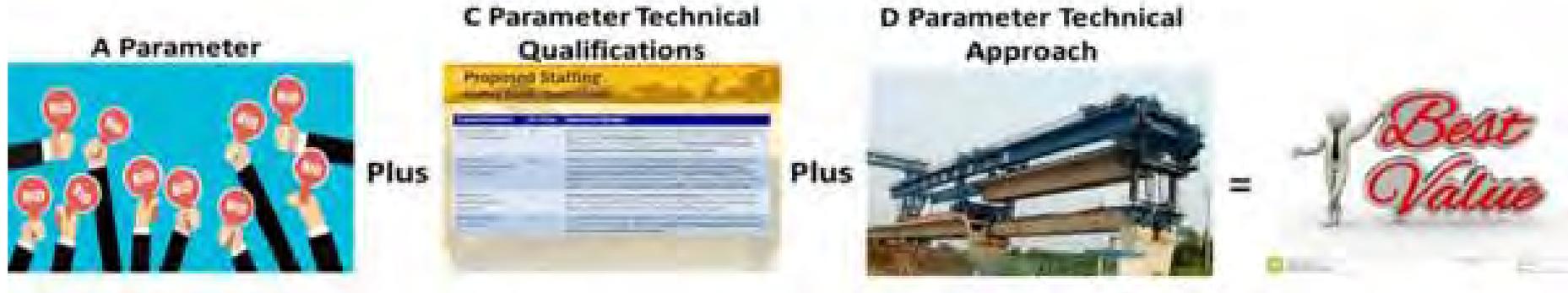
Note:

1. For bridge staging information, see sht. A02 Bridge.

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# A+C+D Bidding



## Technical Approach and Qualifications:

- Bridge Construction – translation, drilled shafts, ground improvements, marine access, temporary work bridges
- Maintenance of Traffic
- Permit Compliance

# Contracting

## Schedule Critical Items

- Advertisement – 12 weeks (Anticipated early December 2021)
  - 8 weeks for technical (February 1), 4 weeks for price (March 1)
- Anticipated Notice of Intent to Award - March 2022
- Anticipated NTP – late April 2022

## Doing Business with ODOT

- TERO certification (*Primes*)
- Contractor pre-qualification (*Primes*)
- Certification with Oregon COBID (*DBEs*)
- Joint Venture Insurance requirements
- <http://www.oregon.gov/odot/Business/OCR/>

# Diversity Programs + Opportunities

ODOT will implement DBE/workforce goals and require a Diversity Plan for the project.



# Workforce Pilot Program

## FHWA's Enhancing Workforce Development Opportunities Contracting Initiative

- *Application process underway*
- *Allows for local hiring preference among select zip codes*
- *Promotes equitable jobs and workforce development, particularly for economically or socially disadvantaged workers*

# DBE Networking Event

JULY 2021

I205CORRIDOR.ORG

I-205 IMPROVEMENTS  
Stafford Road to OR 213

Join us!

## MEET THE PRIMES VIRTUAL NETWORKING EVENT

Phase 1A Project Area includes Abernethy Bridge, OR 99E and OR 43 interchanges.

**July 22, 2021, 4:00–6:00 p.m.**



**Zoom meeting ID: 925 7731 0451**

Passcode: 061654 | [Click to join »](#)



**+1 253-215-8782**

PST, United States, Portland

**Interested Primes:**  
Please contact  
[Allen.HENDY@odot.state.or.us](mailto:Allen.HENDY@odot.state.or.us) to attend



### PURPOSE

We are hosting a networking session for Disadvantaged Business Enterprises (DBEs) and workforce providers to meet prime contractors, hear about upcoming ODOT construction opportunities and the I-205 Improvements project. All interested prime contractors and subcontractors are invited to attend.

At this virtual networking event, participants can:

- Learn more about potential DBE and small business opportunities. [Review over 100 opportunities here »](#)
- Meet ODOT's I-205 project management team.
- Network with potential prime contractors in small groups.
- Learn about ODOT's diversity programs.

# Q&A and Other Opportunities

- **General Q&A**
- **Attend your scheduled 1-on-1 Constructability Session**  
*Contact [Zachary.DAVIS@odot.state.or.us](mailto:Zachary.DAVIS@odot.state.or.us) for any questions about your session*
- **Meet the Primes DBE Networking Event on 7/22**  
*Interested primes, please contact [Allen.HENDY@odot.state.or.us](mailto:Allen.HENDY@odot.state.or.us) to sign up*

# Thank You

## **For more information, contact:**

Allen Hendy, PE – ODOT Resident Engineer Consultant Projects

Phone: 971-235-3861

Email: [Allen.Hendy@odot.state.or.us](mailto:Allen.Hendy@odot.state.or.us)