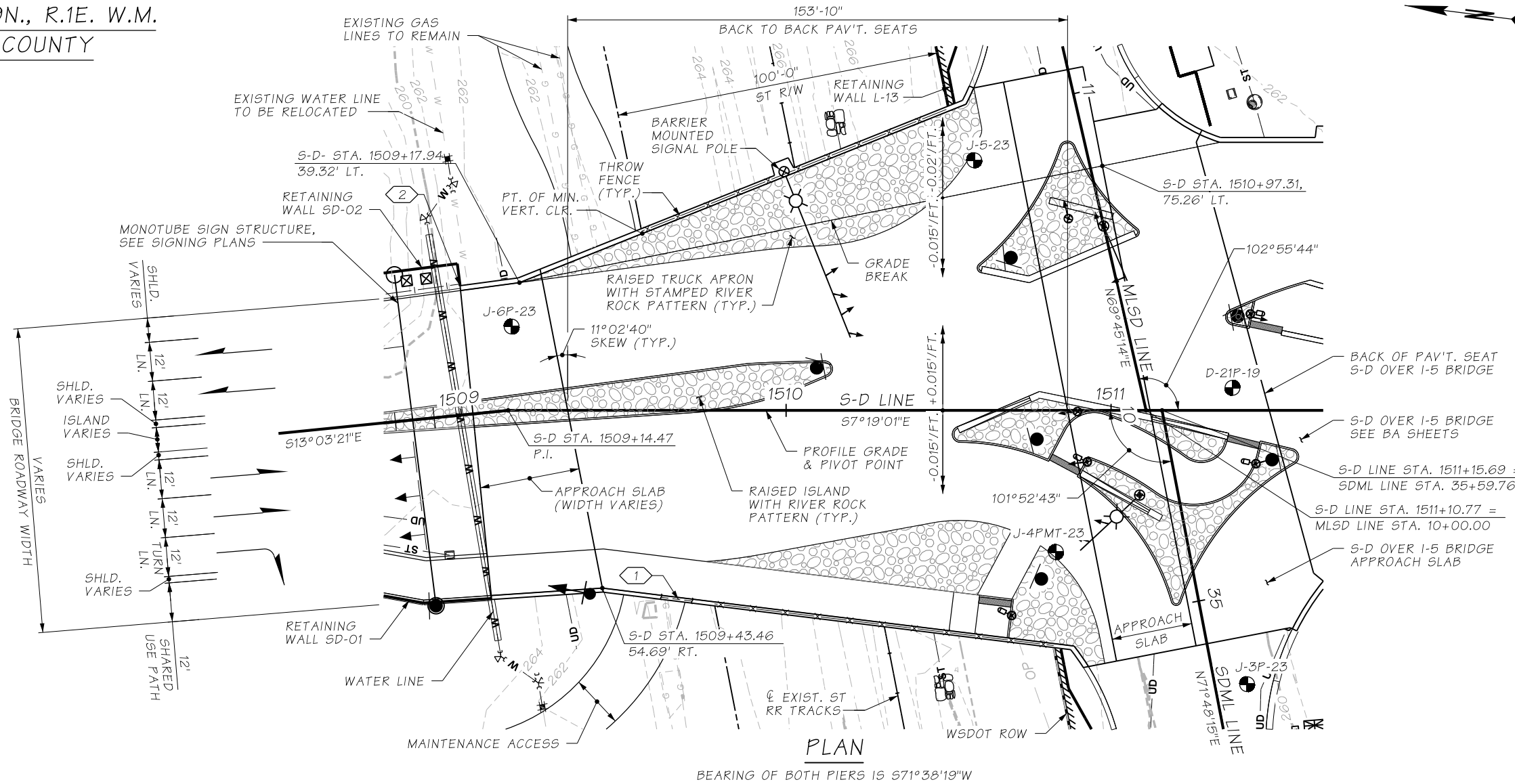


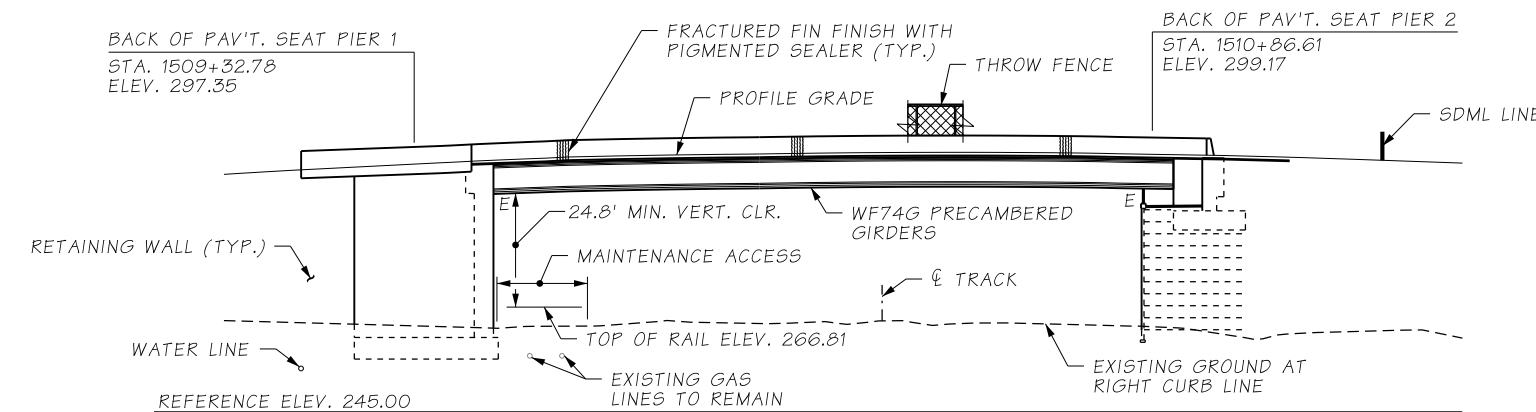
# DOCUMENT CONTROL PROCESSING FORM

|   |                                 |                           |                          |
|---|---------------------------------|---------------------------|--------------------------|
| <b>File Number:</b>                                   | DESN0174<br>Item No. 02         |                           |                          |
| <b>Document Date:</b>                                 | 11/30/23                        |                           |                          |
| <b>Document Type:</b>                                 | Plans                           |                           |                          |
| <b>DCPF Author:</b>                                   | Rachel Altona                   |                           |                          |
| <b>Subject:</b>                                       | Preliminary: S-D Over RR Bridge |                           |                          |
| <b>To (Company):</b>                                  | WSDOT                           | <b>To (Individual):</b>   | Owen Kikuta              |
| <b>From (Company):</b>                                | Jacobs                          | <b>From (Individual):</b> | Heather Weeks            |
| <b>Additional Subject Information and/or Keywords</b> |                                 | <b>Schedule Activity:</b> | N/A                      |
| RFP 2.13 - Bridges and Structures                     |                                 |                           |                          |
|   |                                 |                           |                          |
|   |                                 |                           |                          |
|   |                                 |                           |                          |
|   |                                 | Yes                       | No                       |
| <b>Distribution:</b>                                  | <b>Attachments</b>              | <input type="checkbox"/>  | <input type="checkbox"/> |
| Tim Wasson, Liam Wonch                                | <b>Notes:</b>                   |                           |                          |
| Joal Dowlin   |                                 |                           |                          |
| 0   |                                 |                           |                          |
| 0   |                                 |                           |                          |
| 0   |                                 |                           |                          |

SEC. 36, T.19N., R.1E. W.M.  
PIERCE COUNTY



PLAN  
BEARING OF BOTH PIERS IS 57°38'19"W



ELEVATION

GRADE ELEVATIONS ARE FINISH GRADES AT TOP OF BRIDGE DECK ON S-D LINE AND ARE EQUAL TO PROFILE GRADE

- NOTES:
- ① 2 - 2"Ø CONDUITS FULL LENGTH OF BRIDGE, TYPICAL BOTH SIDES.
  - ② GUARDRAIL CONNECTION TYPE F (STD. PLAN C24.10-02)

P. C. GIRDERS (WF74G)  
LOADING: HL-93

SEISMIC OPERATIONAL CLASSIFICATION: ORDINARY

POINT OF MINIMUM VERTICAL CLEARANCE:  
 S-D STA 1509+55.47 (55.48' LT. OFFSET)  
  
 BRIDGE WITH APPROACH FILLS  
 WF74G GIRDERS  
 PRELIMINARY "A" DIMENSION = 12"  
 CAST-IN-PLACE CONCRETE SHALL BE 4000 PSI  
 DECK PROTECTIVE SYSTEM 1 (EPOXY COATED REBARS)



















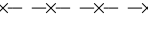
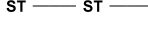
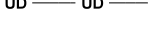


|               |   |            |    |              |       |                  |  |   |  |   |             |
|---------------|---|------------|----|--------------|-------|------------------|--|---|--|---|-------------|
| FILE NAME     | \\USLAS0-APP385\ICS_workdir\198750\113533_32\IC9743_PS_BB01.dgn |            |    | REGION NO.   | STATE | FED.AID PROJ.NO. |  | <h1 style="margin: 0;">PRELIMINARY</h1> | <p>Washington State<br/>Department of Transportation</p> | <p>I-5<br/>MOUNTS TO STEILACOOM-DUPONT RD<br/>CORRIDOR IMPROVEMENTS</p> | PLAN REF NO |
| TIME          | 12:22:27 PM   |            |    | 10           | WASH  | B501             |  |   |  |   |             |
| DATE          | 11/29/2023  |            |    | JOB NUMBER   |       | SHEET            |  |   |  |   |             |
| PLOTTED BY    | USLAS0-APP385\$   |            |    | CONTRACT NO. | C9743 | OF               |  |   |  |   |             |
| DESIGNED BY   | G. CALLAHAN   |            |    | LOCATION NO. |       | SHEETS           |  |   |  |   |             |
| ENTERED BY    | C. GRACE  |            |    |              |       |                  |  |   |  |   |             |
| CHECKED BY    | C. CAYWOOD  |            |    |              |       |                  |  |   |  |   |             |
| PROJ. ENGR.   | C. FRAISURE   |            |    |              |       |                  |  |   |  |   |             |
| REGIONAL ADM. | S. ROARK  |            |    |              |       |                  |  |   |  |   |             |
|               | REV A - PRELIMINARY REVIEW                                      | 11/30/2023 | BY |              |       |                  |  |   |  |   |             |
|               | REVISION  |            |    |              |       |                  |  |   |  |   |             |

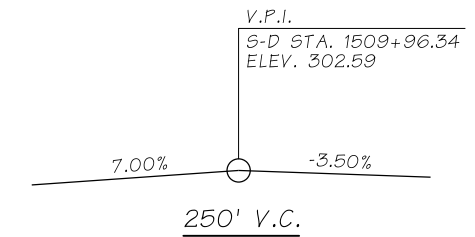
C-5, 2701 ~ PROJECT NO. C9743 ~ OLYMPIC REGION ~ I-5 ~ M.P. 119.2 ~ I-5, MOUNTS TO STEILACOOM-DUPONT RD. - CORRIDOR IMPROVEMENTS - STEILACOOM-DUPONT OVER RR (NEW BRIDGE)

**GENERAL NOTES:**



- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022, AND AMENDMENTS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020. THIS STRUCTURE HAS BEEN DESIGNED FOR A 3" HMA FUTURE WEARING SURFACE.
- THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION WITH INTERIM REVISIONS THROUGH 2015, AS MODIFIED BY THE WSDOT BRIDGE DESIGN MANUAL, SEPTEMBER 2020. THE SEISMIC DESIGN WAS PERFORMED USING THE FOLLOWING:  
 SEISMIC DESIGN CATEGORY: C  
 SITE CLASS: C  
 PEAK GROUND ACCELERATION: 0.50 (SITE CLASS C)  
 0.2 SECOND SPECTRAL ACCELERATION: 1.13 (SITE CLASS C)  
 1.0 SECOND SPECTRAL ACCELERATION: 0.42 (SITE CLASS C)
- THE CONCRETE IN THE BRIDGE DECK SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED BEFORE OR AFTER PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-03.3(14) OF THE STANDARD SPECIFICATIONS. BACKFILL WITHIN LIMITS OF BRIDGE APPROACH EMBANKMENTS SHALL BE SELECT BORROW UNLESS NOTED OTHERWISE. SEE STANDARD SPECIFICATION SECTION 1-01.3 FOR DEFINITION OF BRIDGE APPROACH EMBANKMENT.
- UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2 1/2" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, AND 2" AT ALL OTHER LOCATIONS.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ILLUMINATION, ITS, AND SIGNAL PLANS.

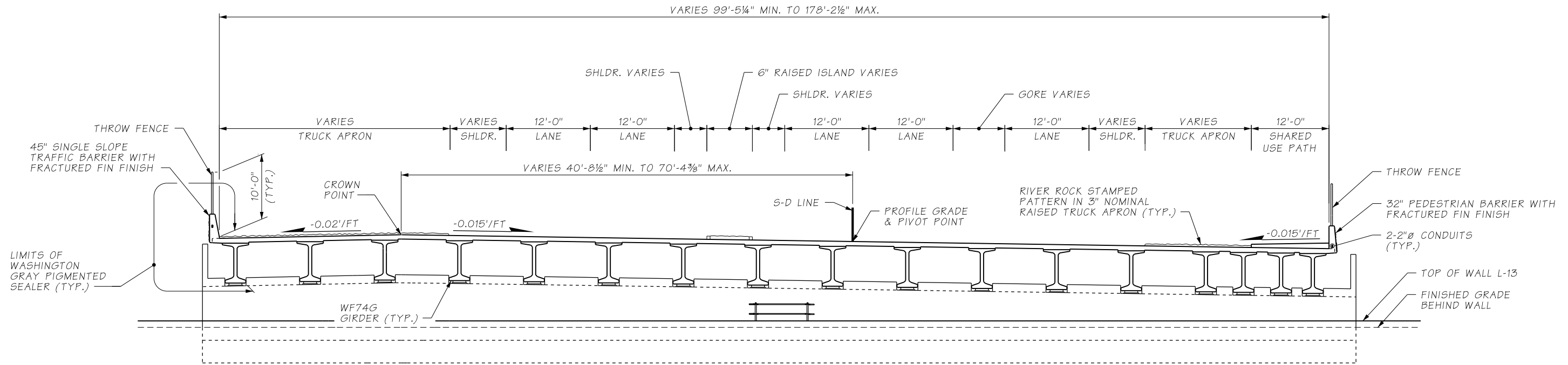
**LEGEND**

-  LETTER IDENTIFIES SECTION OR VIEW
-  NUMBER IDENTIFIES DETAIL
-  TAKEN OR SHOWN ON BRIDGE SHEET BB01
-  TAKEN OR SHOWN ON SAME SHEET
-  FLAGNOTE: IDENTIFIES NOTE REFERENCE ON THE SAME SHEET
-  SOIL BORING LOCATION
-  JUNCTION BOX - PROPOSED
-  PT. OF MIN. VERT. CLR.
-  LIGHT STANDARD - EXISTING
-  LIGHT STANDARD - PROPOSED
-  OVERHEAD SIGN STRUCTURE
-  PEDESTRIAN SIGNAL
-  SIGN
-  TRAFFIC SIGNAL
-  BURIED POWER - EXISTING
-  GAS - EXISTING
-  OVERHEAD POWER - EXISTING
-  WATER EXISTING
-  FENCE - EXISTING
-  FENCE - PROPOSED
-  STORM SEWER - PROPOSED
-  UNDERDRAIN - PROPOSED
-  WATER LINE - PROPOSED



**S-D LINE PROFILE**

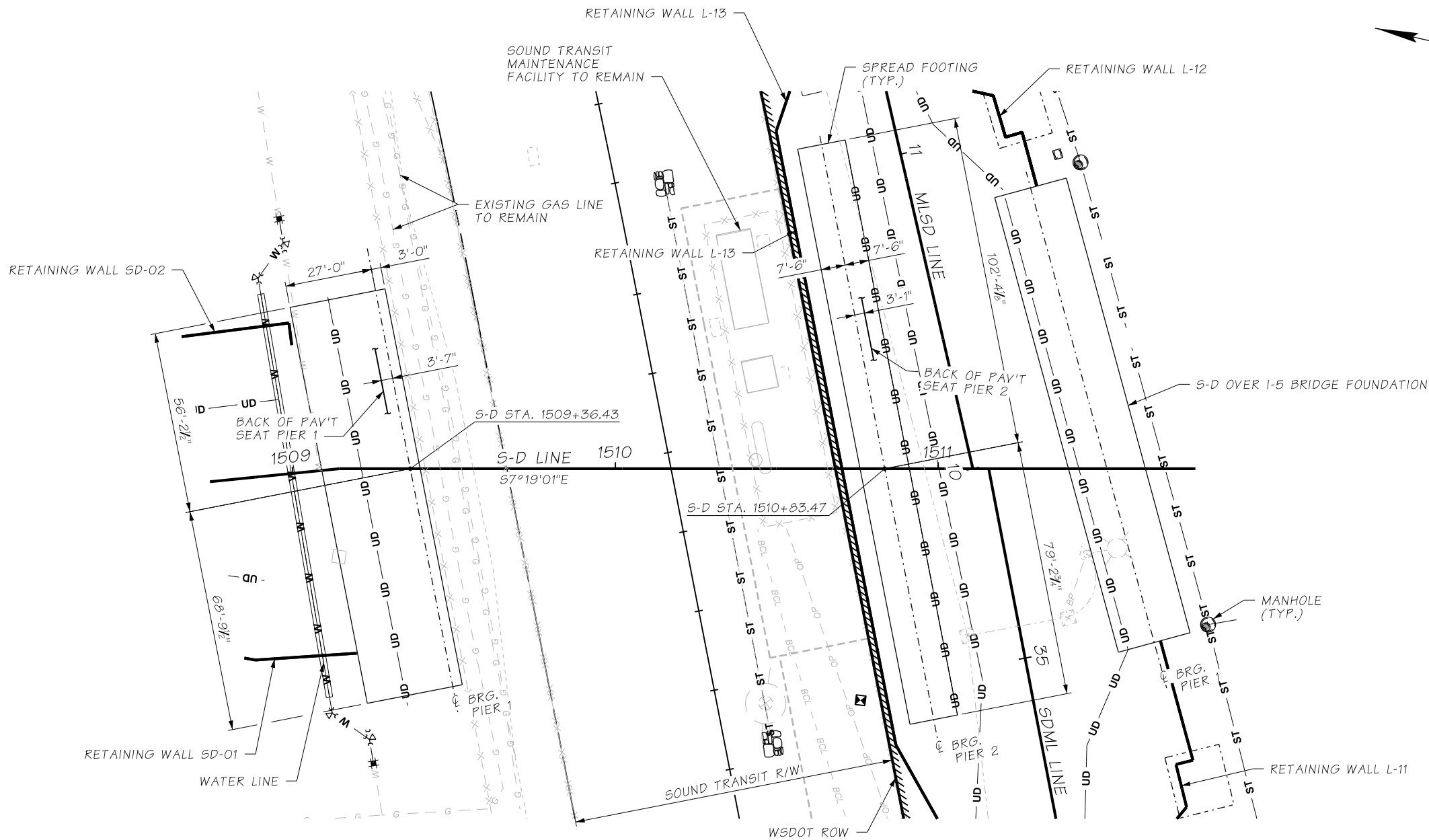
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| FILE NAME \\USLAS0-APP385\ICS_workdir\198712\113533_704IC9743_PS_BB02.dgn |                         | REGION NO. 10              |  | STATE WASH         | FED.AID PROJ.NO. |  | <h1 style="text-align: center;">PRELIMINARY</h1> | <br>Washington State<br>Department of Transportation | I-5<br>MOUNTS TO STEILACOOM-DUPONT RD<br>CORRIDOR IMPROVEMENTS | PLAN REF NO<br>BB02 |
| TIME 11:02:11 AM  | DATE 11/29/2023         | JOB NUMBER                 |  | CONTRACT NO. C9743 | LOCATION NO.     |   |  |   |  | ATKINSON / Jacobs   |
| PLOTTED BY USLAS0-APP385\$  | DESIGNED BY G. CALLAHAN | REV A - PRELIMINARY REVIEW |  | 11/30/2023         | DATE             | BY  | GENERAL NOTES AND GEOMETRY                       |   |  |                     |
| ENTERED BY C. GRACE   | CHECKED BY C. CAYWOOD   | REVISION                   |  | DATE               | BY               |   |  |   |  |                     |
| PROJ. ENGR. C. FRAISURE   | REGIONAL ADM. S. ROARK  |                            |  |                    |                  |   |  |   |  |                     |



**TYPICAL SECTION**

SHOWN NEAR PIER 2 LOOKING AHEAD ON STATIONING

|  |                         |                     |                       |                         |                        |                            |                      |  |   |   |
|--|-------------------------|---------------------|-----------------------|-------------------------|------------------------|----------------------------|----------------------|--|---|---|
| FILE NAME \\USLAS0-APP385\ICS_workdir\198712\113533_108\9743_PS_BB03.dgn |                         | REGION NO. 10       |                       | STATE WASH              | FED.AID PROJ.NO.       |                            | <h1>PRELIMINARY</h1> | <p>Washington State<br/>Department of Transportation</p> | <p>I-5<br/>MOUNTS TO STEILACOOM-DUPONT RD<br/>CORRIDOR IMPROVEMENTS</p> | PLAN REF NO<br>BB03                       |
| TIME 11:02:13 AM   | DATE 11/29/2023         | JOB NUMBER          |                       | CONTRACT NO. C9743      | LOCATION NO.           |                            |                      |  |   | <p>ATKINSON / Jacobs<br/>CONSTRUCTION</p> |
| PLOTTED BY USLAS0-APP385\$   | DESIGNED BY G. CALLAHAN | ENTERED BY C. GRACE | CHECKED BY C. CAYWOOD | PROJ. ENGR. C. FRAISURE | REGIONAL ADM. S. ROARK | REV A - PRELIMINARY REVIEW | 11/30/2023           | DATE   | BY  |   |



**FOOTING LAYOUT**  
 BEARING OF BOTH PIERS IS S71°38'19"W

**NOTES:**  
 1. FOR LEGEND, SEE SHEET BB02.

|   |                         |                            |            |              |                   |   |                      |  |   |                  |
|---|-------------------------|----------------------------|------------|--------------|-------------------|---|----------------------|--|---|------------------|
| FILE NAME \\USLAS0-APP385\ICS_workdir\198712\113533_611\C9743_PS_BB04.dgn |                         | REGION NO. 10              |            | STATE WASH   | FED.AID PROJ.NO.  |   | <h1>PRELIMINARY</h1> |  | <b>I-5</b><br><b>MOUNTS TO STEILACOOM-DUPONT RD</b><br><b>CORRIDOR IMPROVEMENTS</b> | PLAN REF NO BB04 |
| TIME 11:02:26 AM  | DATE 11/29/2023         | JOB NUMBER                 |            | LOCATION NO. | SHEET OF SHEETS   |   |                      |  |   |                  |
| PLOTTED BY USLAS0-APP385\$  | DESIGNED BY G. CALLAHAN | CONTRACT NO. C9743         |            |              | ATKINSON / Jacobs | <b>STEILACOOM-DUPONT OVER RR BRIDGE</b><br>FOOTING LAYOUT |                      |  |   |                  |
| ENTERED BY C. GRACE   | CHECKED BY C. CAYWOOD   | REV A - PRELIMINARY REVIEW | 11/30/2023 | BY           |                   |   |                      |  |   |                  |
| PROJ. ENGR. C. FRAISURE   | REGIONAL ADM. S. ROARK  | REVISION                   | DATE       |              |                   |   |                      |  |   |                  |