UTC
Washington Utilities and Transportation Commission

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Washington State Department of Transpo Petitioner, vs. Central Puget Sound Regional Transit Aut Respondent 1 City of Dupont Respondent 2	DOCKET NO. TR- PETITION TO CONSTRUCT A RAILROAD-HIGHWAY GRADE SEPARATION (OVERCROSSING OR UNDERCROSSING) USDOT CROSSING NO.: TBD

By filing this petition with the Washington Utilities and Transportation Commission (UTC), the Petitioner alleges that public safety requires the construction of a highway-rail grade separated crossing (overcrossing or undercrossing) under *RCW 81.53.060*.

Section 1 – Petitioner's Information

Washington State Department of Transportation
Petitioner

Signature

310 Maple Park Avenue, SE, Suite 2B
Street Address

Olympia, WA 98504
City, State and Zip Code

PO Box 47329 Olympia, WA 98504-7329
Mailing Address, if different than the street address

Connie Raezer, Railroad Liaison
Contact Person Name

360-705-7459 or raezerc@wsdot.wa.gov
Contact Phone Number and Email

[1] An overcrossing means any point or place where a highway crosses a railroad by passing above the same, or any point or place where one railroad crosses another railroad not at grade. An undercrossing means any point or place where a highway crosses a railroad by passing under the same, or any point or place where one railroad crosses another not at grade. *RCW 81.53.010*

Section 2 – Respondent's Information

Central Puget Sound Regional Transit Authority

Respondent 1

Sound Transit 401 S Jackson St

Street Address

Seattle, WA 98105

City, State and Zip Code

Mailing Address, if different than the street address

Mark Johnson

Contact Person Name

mark.johnson@soundtransit.org or 206.398.5192

Contact Phone Number and Email

City of Dupont

Respondent 2

1700 Civic Drive

Street Address

Dupont WA 98327

City, State and Zip Code

Mailing Address, if different than the street address

Shukri Sharabi

Contact Person Name

253-377-4969 or CityEngineer@dupontwa.gov

Contact Phone Number and Email

Section 3 – Proposed Crossing Location

1. Name of highway/roadway: Interstate 5 at exit 119

2. USDOT number: TBD

3. GPS location: 47.0934538 -122.6241380

4. Railroad mile post (nearest tenth): 0017.34

5. City: Dupont County: Pierce

Section 4 – Current Highway Traffic Information

1. Name of highway: Interstate 5 at exit 119
2. Road authority: Washington State Dept of Transportation
3. Average annual daily traffic (AADT): 10,600
4. Number of lanes: 4
5. Roadway speed: 30 mph
6. Is the crossing part of an established truck route? ✔ Yes No
7. If so, trucks are what percent of total daily traffic? <10 %
8. Is the crossing part of an established school bus route? Yes ✔ No
9. If so, how many school buses travel over the crossing each day?

Section 5 – Railroad Information

1. Name of railroad(s) operating at crossing: Sound Transit

2. Type of railroad at crossing: ✔ Common Carrier Logging Industrial
   ✔ Passenger Excursion
5. Type of tracks at crossing: ✔ Main Line Siding or Spur
6. Number of tracks at crossing: 1
7. Average daily train traffic, freight:

   Authorized freight train speed: Operated freight train speed:
8. Average daily train traffic, passenger: 14

   Authorized passenger train speed: 79 Operated passenger train speed: 30-79

Section 6 – Description of Crossing Construction/Reconstruction

1. Describe in detail the public safety need and reasons for constructing a grade separation at this location (attach additional information sheets to petition as needed):

The purpose of this new grade separation is to replace USDOT crossing 085836E. This work will take place as part of a larger Interstate 5 widening project. The grade separation will improve safety for both vehicle and train traffic and improve traffic flows to and from Interstate 5.

2. How far is the nearest alternate access across the tracks from the crossing?

The nearest crossing is Center Drive (DuPont) 1.04 miles to the south on I 5.

3. Describe the alternate access route, including distance and driving time:

South on I-5 about a mile to the Center Drive Exit 118

4. Will the proposed crossing eliminate the need for one or more existing crossings?

✔ Yes No N/A

5. If so, identify the crossing(s) by USDOT number and state the distance and direction from the proposed crossing.

085836E will be closed at the completion of the grade separation. The at-grade is in the same location as the new overcrossing. Sound Transit will be responsible for closure.

6. If the grade separation is replacing an existing at-grade crossing, describe what will happen with the existing crossing during construction of the grade separation, as well as what will happen with the crossing surface, signage, and signal equipment once the grade separation is complete.

During the construction of the new grade separation the USDOT crossing 085836E will remain fully functional. After construction of the grade separation the crossing and existing roadway approaches will be closed. Sound Transit will remove existing signals to be put into their inventory for use elsewhere on the system.

7. Who is responsible for long-term maintenance of the grade separation?

Washington State Dept of Transportation

Section 7 – Illustration of Grade Separated Crossing

Attach a diagram, design drawing, map, or other illustration showing the location of the railroad and the proposed/existing location of the crossing. Include the parcels of private property located on both sides of the proposed crossing for a distance of 500' from the crossing and the name and mailing address of each property owner.

Section 8 – Cost Apportionment

If the commission approves the construction of the grade separated crossing requested in this petition, it will apportion costs in accordance with the applicable statutes. (*RCW 81.53.130*).

In the alternative, if the parties to this petition have reached an agreement related to apportionment of costs, please sign here to confirm:

Petitioner's Signature:

Respondent 1 Signature:

Respondent 2 Signature:

Section 9 – Respondent's Review

The undersigned represents the Respondent in this petition to construct a highway-rail grade separation.

USDOT Crossing No.: TBD

We have investigated the conditions at the proposed crossing site. We are satisfied the conditions are the same as described by the Petitioner. We consent to a decision by the commission based on a review of the documents filed in this docket.

Dated at , Washington, on the 1 day of select month 2023.

Central Puget Sound Regional Transit Authority
Printed name of Respondent 1

Signature of Respondent's Representative

Project Director, BILD, Sounder Line Projects
Title

206-398-5192
Phone Number

mark.johnson@soundtransit.org
Email

401 S Jackson St
Seattle, WA 98105

Mailing Address

City of Dupont

Printed Name of Respondent 2

Signature of Respondent's Representative

City Engineer

Title

253-377-4969

Phone Number

CityEngineer@dupontwa.gov

Email

1700 Civic Drive
Dupont, WA 98327

Mailing Address

Checklist prior to submitting petition:

- ✓ Ensure all petition fields are completed.
- ✓ Ensure parties sign Section 8 regarding any Cost Apportionment agreement, if applicable.
- ✓ Obtain signature on Respondent's Review (Section 9). *If the respondent fails to sign this section, advise UTC staff upon submission.*
- ✓ Attach copies of:
  - Illustration of crossing (described in Section 7).
  - Any other relevant documents to support the petition, including but not limited to support of public need, project information, etc.

Submitting the petition: To officially file the petition, send the petition form and supporting documents via EFiling.

Questions: For questions, please contact:

Mike Turcott Transportation Planning Specialist mike.turcott@utc.wa.gov (360) 764-0572	**Tyler Whitcomb** Transportation Planning Specialist tyler.whitcomb@utc.wa.gov (564) 669-0943

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date (MM/DD/YYYY)	B. Reporting Agency	C. Reason for Update (Select only one)	D. DOT Crossing Inventory Number
02 / 08 / 2024	☒ Railroad ☐ Transit ☐ State ☐ Other	☐ Change in Data ☐ New Crossing ☐ Closed ☐ No Train Traffic ☐ Quiet Zone Update ☒ Re-Open ☐ Date Change Only ☐ Change in Primary Operating RR ☐ Admin. Correction	085836E

Part I: Location and Classification Information

1. Primary Operating Railroad	2. State	3. County
Sounder Commuter Rail [SCR]	WASHINGTON	PIERCE

4. City / Municipality	5. Street/Road Name & Block Number	6. Highway Type & No.
☒ In ☐ Near DU PONT	BARKSDALE AVE (Street/Road Name) | * (Block Number)	City

7. Do Other Railroads Operate a Separate Track at Crossing?	8. Do Other Railroads Operate Over Your Track at Crossing?
☐ Yes ☒ No If Yes, Specify RR	☒ Yes ☐ No If Yes, Specify RR: BNSF, TMBL, ATK

9. Railroad Division or Region	10. Railroad Subdivision or District	11. Branch or Line Name	12. RR Milepost
☐ None NORTHWEST	☐ None LAKEwood	☒ None	(prefix) | 0017.34 (nnnn.nnn) | (suffix)

13. Line Segment *	14. Nearest RR Timetable Station *	15. Parent RR (if applicable)	16. Crossing Owner (if applicable)
0816	cp188	☒ N/A	☐ N/A SCR

17. Crossing Type	18. Crossing Purpose	19. Crossing Position	20. Public Access (if Private Crossing)	21. Type of Train		22. Average Passenger Train Count Per Day
☒ Public ☐ Private	☒ Highway ☐ Pathway, Ped. ☐ Station, Ped.	☒ At Grade ☐ RR Under ☐ RR Over	☐ Yes ☐ No	☒ Freight ☒ Intercity Passenger ☐ Commuter	☐ Transit ☐ Shared Use Transit ☐ Tourist/Other	☐ Less Than One Per Day ☒ Number Per Day 14

23. Type of Land Use
☐ Open Space ☐ Farm ☐ Residential ☒ Commercial ☐ Industrial ☐ Institutional ☐ Recreational ☐ RR Yard

24. Is there an Adjacent Crossing with a Separate Number?	25. Quiet Zone (FRA provided)
☐ Yes ☒ No If Yes, Provide Crossing Number	☒ No ☐ 24 Hr ☐ Partial ☐ Chicago Excused Date Established

26. HSR Corridor ID	27. Latitude in decimal degrees	28. Longitude in decimal degrees	29. Lat/Long Source
☒ N/A	(WGS84 std: nn.nnnnnnn) 47.0934540	(WGS84 std: -nnn.nnnnnnn) -122.6241380	☒ Actual ☐ Estimated

30.A. Railroad Use *	31.A. State Use *
30.B. Railroad Use *	31.B. State Use *
30.C. Railroad Use *	31.C. State Use *
30.D. Railroad Use *	31.D. State Use *
32.A. Narrative (Railroad Use) * A.K.A DUPONT AVE	32.B. Narrative (State Use) * A.K.A DUPONT AVE

33. Emergency Notification Telephone No. (posted)	34. Railroad Contact (Telephone No.)	35. State Contact (Telephone No.)
800-832-5452	206-850-6985	360-664-1262

Part II: Railroad Information

1. Estimated Number of Daily Train Movements

1.A. Total Day Thru Trains (6 AM to 6 PM)	1.B. Total Night Thru Trains (6 PM to 6 AM)	1.C. Total Switching Trains	1.D. Total Transit Trains	1.E. Check if Less Than One Movement Per Day ☐ How many trains per week?
9	5	0	0	

2. Year of Train Count Data (YYYY)	3. Speed of Train at Crossing
2024	3.A. Maximum Timetable Speed (mph) 79 3.B. Typical Speed Range Over Crossing (mph) From 30 to 79

4. Type and Count of Tracks

Main 1 Siding 0 Yard 0 Transit 0 Industry 0

5. Train Detection (Main Track only)
☒ Constant Warning Time ☐ Motion Detection ☐ AFO ☐ PTC ☐ DC ☐ Other ☐ None

6. Is Track Signaled?	7.A. Event Recorder	7.B. Remote Health Monitoring
☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☒ No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date *(MM/DD/YYYY)*	PAGE 2	D. Crossing Inventory Number *(7 char.)*
02/08/2024		085836E

Part III: Highway or Pathway Traffic Control Device Information

1. Are there Signs or Signals? ☒ Yes ☐ No

2. Types of Passive Traffic Control Devices associated with the Crossing

2.A. Crossbuck Assemblies *(count)*	2.B. STOP Signs *(R1-1) (count)*	2.C. YIELD Signs *(R1-2) (count)*	2.D. Advance Warning Signs *(Check all that apply; include count)* ☐ None
4	0	0	☒ W10-1 2 ☐ W10-3 0 ☐ W10-11 0 ☒ W10-2 1 ☐ W10-4 0 ☐ W10-12 0

2.E. Low Ground Clearance Sign *(W10-5)*	2.F. Pavement Markings	2.G. Channelization Devices/Medians	2.H. EXEMPT Sign *(R15-3)*	2.I. ENS Sign *(I-13)* Displayed
☒ Yes *(count 2)* ☐ No	☒ Stop Lines ☒ Dynamic Envelope ☒ RR Xing Symbols ☐ None	☒ All Approaches ☐ Median ☐ One Approach ☐ None	☐ Yes ☒ No	☒ Yes ☐ No

2.J. Other MUTCD Signs	2.K. Private Crossing Signs *(if private)*	2.L. LED Enhanced Signs *(List types)*
☐ Yes ☒ No Specify Type ____ Count ____ Specify Type ____ Count ____ Specify Type ____ Count ____	☐ Yes ☐ No	

3. Types of Train Activated Warning Devices at the Grade Crossing *(specify count of each device for all that apply)*

3.A. Gate Arms *(count)*	3.B. Gate Configuration	3.C. Cantilevered *(or Bridged)* Flashing Light Structures *(count)*	3.D. Mast Mounted Flashing Lights *(count of masts)* 9	3.E. Total Count of Flashing Light Pairs
Roadway 4 Pedestrian 0	☒ 2 Quad ☐ 3 Quad ☐ 4 Quad ☐ Full *(Barrier)* Resistance ☐ Median Gates	Over Traffic Lane 0 ☐ Incandescent Not Over Traffic Lane 1 ☒ LED	☐ Incandescent ☒ LED ☐ Back Lights Included ☐ Side Lights Included	13

3.F. Installation Date of Current Active Warning Devices: *(MM/YYYY)*	3.G. Wayside Horn	3.H. Highway Traffic Signals Controlling Crossing	3.I. Bells *(count)*
____/____ ☐ Not Required	☒ Yes Installed on *(MM/YYYY)* 07 / 2017 ☐ No	☐ Yes ☒ No	1

3.J. Non-Train Active Warning	3.K. Other Flashing Lights or Warning Devices
☐ Flagging/Flagman ☐ Manually Operated Signals ☐ Watchman ☐ Floodlighting ☐ None	Count 1 Specify type XINGArms

4.A. Does nearby Hwy Intersection have Traffic Signals?	4.B. Hwy Traffic Signal Interconnection	4.C. Hwy Traffic Signal Preemption	5. Highway Traffic Pre-Signals	6. Highway Monitoring Devices *(Check all that apply)*
☒ Yes ☐ No	☐ Not Interconnected ☒ For Traffic Signals ☐ For Warning Signs	☐ Simultaneous ☒ Advance	☐ Yes ☐ No Storage Distance * ____ Stop Line Distance * ____	☐ Yes - Photo/Video Recording ☐ Yes – Vehicle Presence Detection ☐ None

Part IV: Physical Characteristics

1. Traffic Lanes Crossing Railroad	2. Is Roadway/Pathway Paved?	3. Does Track Run Down a Street?	4. Is Crossing Illuminated? *(Street lights within approx. 50 feet from nearest rail)*
☐ One-way Traffic ☒ Two-way Traffic ☐ Divided Traffic Number of Lanes 3	☒ Yes ☐ No	☐ Yes ☒ No	☒ Yes ☐ No

5. Crossing Surface *(on Main Track, multiple types allowed)* Installation Date * *(MM/YYYY)* ____/____ Width * 8 Length * 144

☐ 1 Timber ☐ 2 Asphalt ☐ 3 Asphalt and Timber ☒ 4 Concrete ☐ 5 Concrete and Rubber ☐ 6 Rubber ☐ 7 Metal
☐ 8 Unconsolidated ☐ 9 Composite ☐ 10 Other *(specify)* ____

6. Intersecting Roadway within 500 feet?	7. Smallest Crossing Angle	8. Is Commercial Power Available? *
☒ Yes ☐ No If Yes, Approximate Distance *(feet)* 75	☐ 0° – 29° ☐ 30° – 59° ☒ 60° - 90°	☒ Yes ☐ No

Part V: Public Highway Information

1. Highway System	2. Functional Classification of Road at Crossing	3. Is Crossing on State Highway System?	4. Highway Speed Limit
☐ (01) Interstate Highway System ☐ (02) Other Nat Hwy System (NHS) ☐ (03) Federal AID, Not NHS ☒ (08) Non-Federal Aid	☐ (0) Rural ☒ (1) Urban ☐ (1) Interstate ☐ (5) Major Collector ☐ (2) Other Freeways and Expressways ☐ (3) Other Principal Arterial ☐ (6) Minor Collector ☒ (4) Minor Arterial ☐ (7) Local	☐ Yes ☒ No	25 MPH ☐ Posted ☐ Statutory
		5. Linear Referencing System *(LRS Route ID)* *	
		6. LRS Milepost *	

7. Annual Average Daily Traffic *(AADT)*	8. Estimated Percent Trucks	9. Regularly Used by School Buses?	10. Emergency Services Route
Year 2006 AADT 013990	10 %	☐ Yes ☒ No Average Number per Day ____	☐ Yes ☒ No

Submission Information - *This information is used for administrative purposes and is not available on the public website.*

Submitted by ____ Organization ____ Phone ____ Date ____

DOCUMENT CONTROL PROCESSING FORM

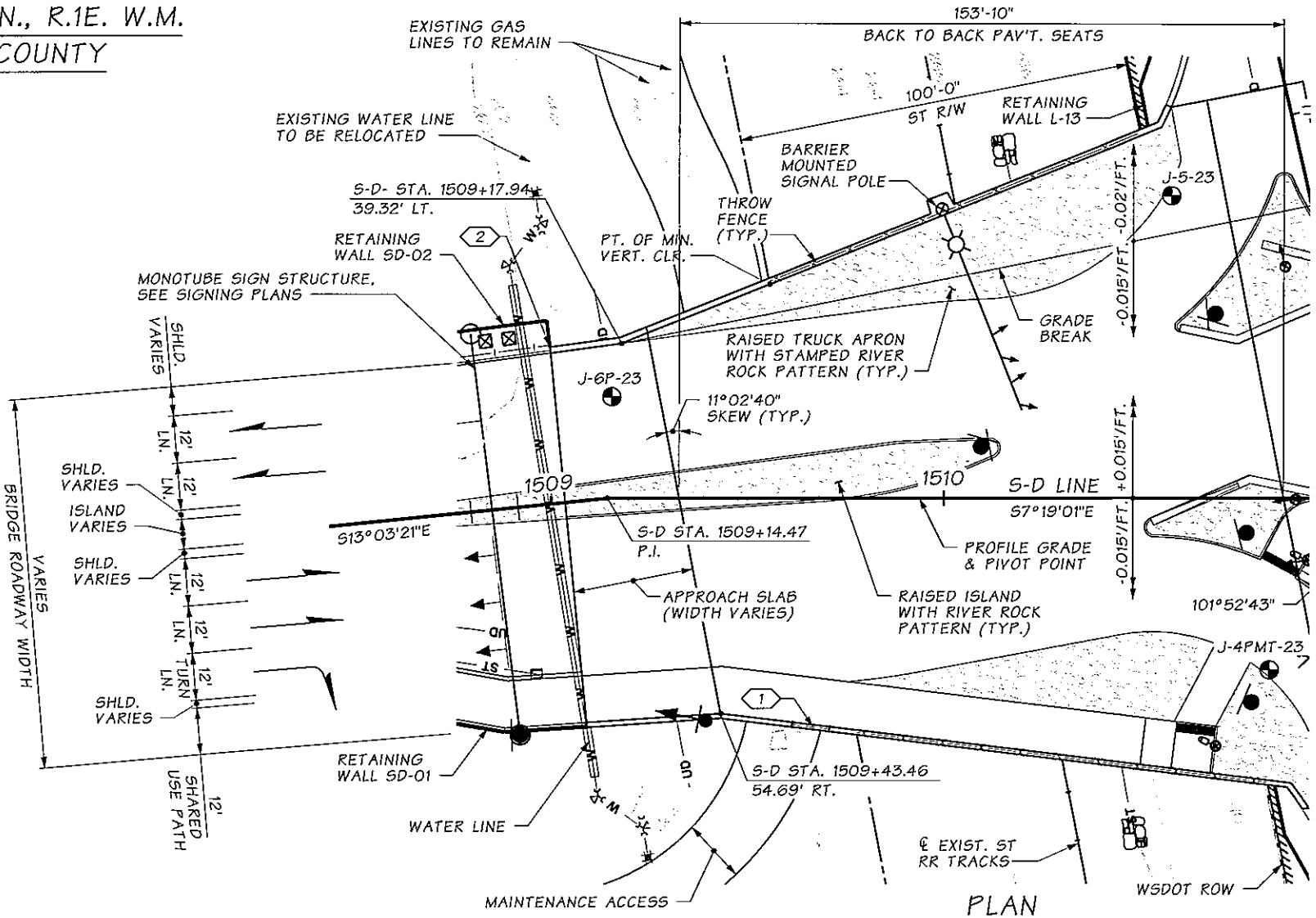
File Number:	DESN0174 Item No. 02		
Document Date:	11/30/23		
Document Type:	Plans		
DCPF Author:	Rachel Altona		
Subject:	Preliminary: S-D Over RR Bridge		
To (Company):	WSDOT	To (Individual):	Owen Kikuta
From (Company):	Jacobs	From (Individual):	Heather Weeks
Additional Subject Information and/or Keywords		Schedule Activity:	N/A
RFP 2.13 - Bridges and Structures			

		Yes	No
Distribution:	Attachments	☐	☐
Tim Wasson, Liam Wonch			
Joal Dowlin	Notes:		
0			
0			
0			

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)

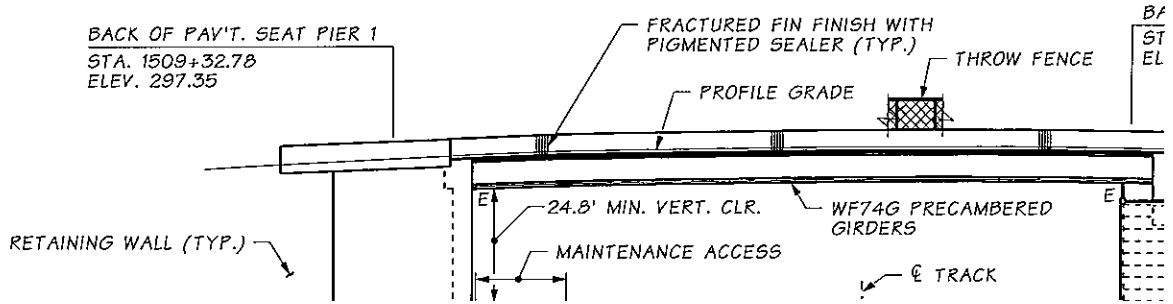
POINT OF MINIMUM VERTICAL CLEARANCE:
S-D STA 1509+55.47 (55.48' LT. OFFSET)

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



PLAN

BEARING OF BOTH PIERS IS S71°38'19"W



GENERAL NOTES:

1. 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.

2. 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.

3. 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)

4. 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.

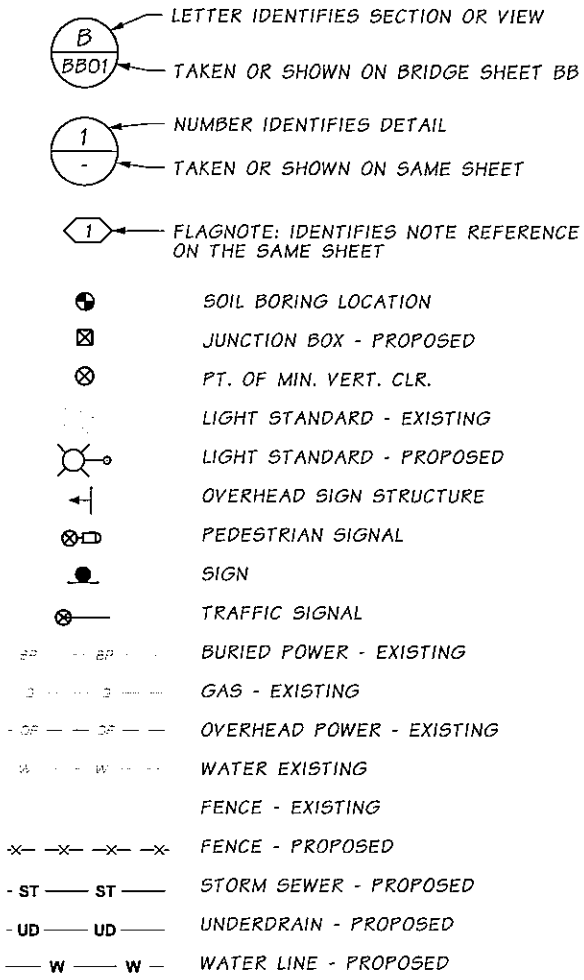
5. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED BEFORE OR AFTER PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-03.3(14)I OF THE STANDARD SPECIFICATIONS. BACKFILL WITHIN LIMITS OF BRIDGE APPROACH EMBANKMENTS SHALL BE SELECT BORROW UNLESS NOTED OTHERWISE. SEE STANDARD SPECIFICATION SECTION 1-01.3 FOR DEFINITION OF BRIDGE APPROACH EMBANKMENT.

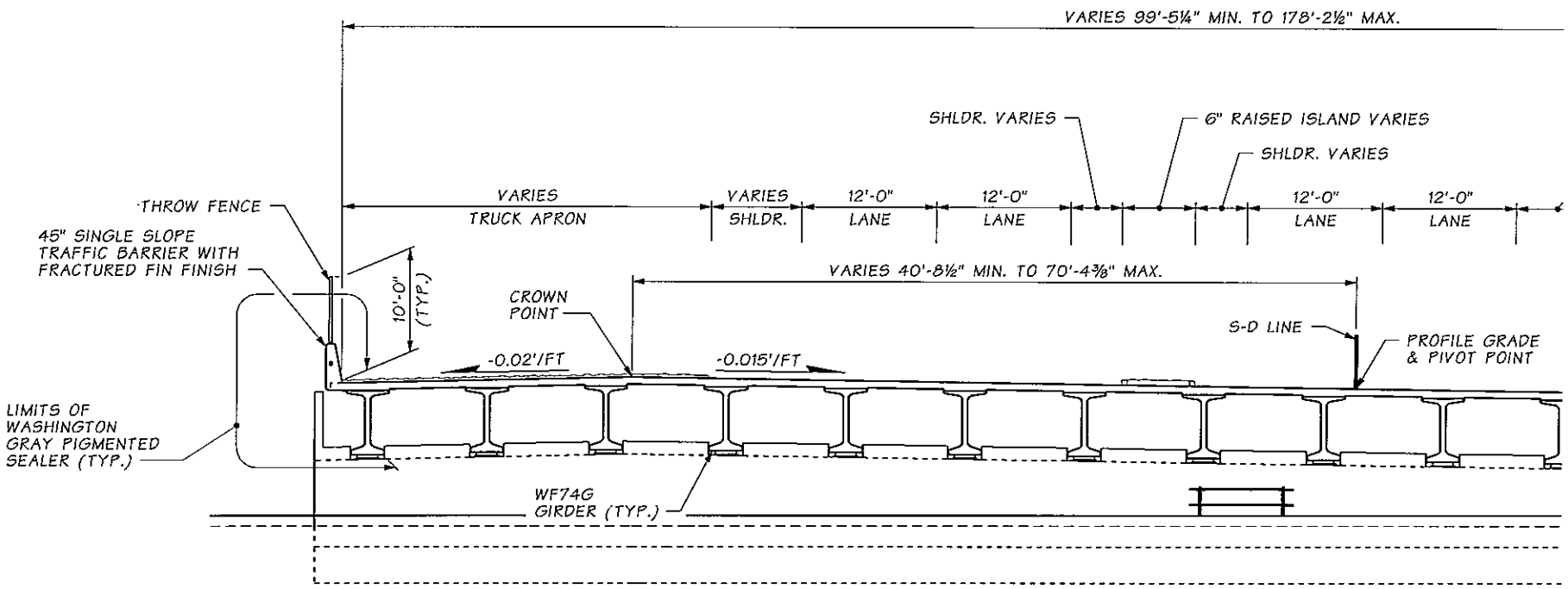
6. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, AND 2" AT ALL OTHER LOCATIONS.

7. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.

8. CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ILLUMINATION, ITS, AND SIGNAL PLANS.

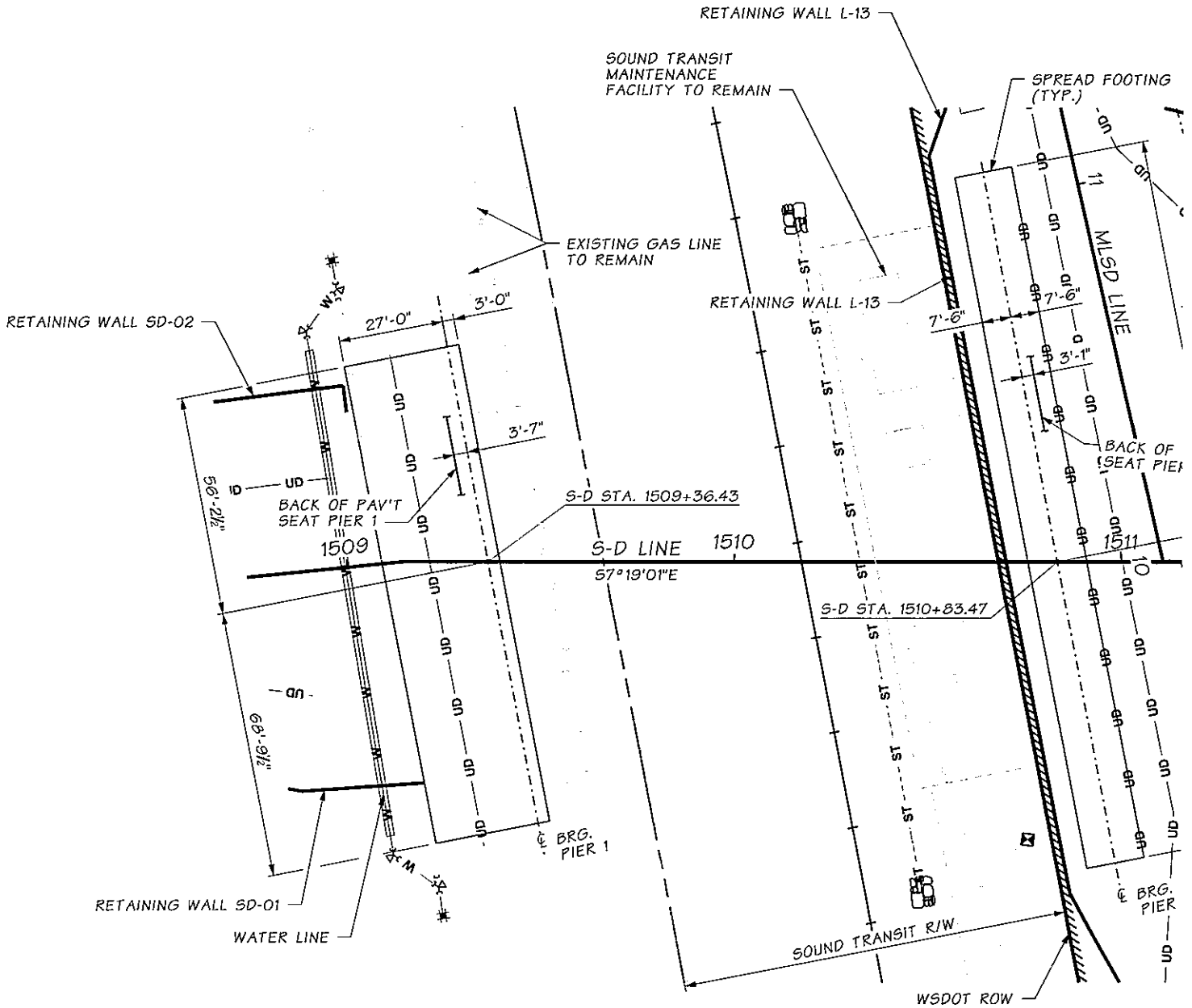
LEGEND





TYPICAL SECTION

SHOWN NEAR PIER 2 LOOKING AHEAD ON STATIONING


RETAINING WALL L-13
SOUND TRANSIT MAINTENANCE FACILITY TO REMAIN
SPREAD FOOTING (TYP.)
EXISTING GAS LINE TO REMAIN
RETAINING WALL SD-02
RETAINING WALL L-13
27'-0"
3'-0"
7'-6"
7'-6"
3'-1"
MLSD LINE
3'-7"
56'-2½"
BACK OF PAV'T SEAT PIER 1
S-D STA. 1509+36.43
1509
S-D LINE
1510
1511
S7°19'01"E
S-D STA. 1510+83.47
68'-9½"
BRG. PIER 1
RETAINING WALL SD-01
WATER LINE
SOUND TRANSIT R/W
WSDOT ROW
BRG. PIER