WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

City of Monroe, Washington Petitioner, vs. BNSF Railway Company Respondent	DOCKET NO. TR- PETITION TO MODIFY WARNING DEVICES AT A HIGHWAY-RAILROAD GRADE CROSSING USDOT:

The Petitioner asks the Washington Utilities and Transportation Commission to approve modification of warning devices at a highway-rail grade crossing.

Section 1 – Petitioner's Information

Scott Peterson, Deputy City Engineer
Petitioner

Signature

806 West Main Street
Street Address

Monroe, Washington 98272
City, State and Zip Code

Mailing Address, if different than the street address

Scott Peterson
Contact Person Name & Signature

360-863-4606 speterson@monroewa.gov
Contact Phone Number and Email Address

Section 2 – Respondent's Information

BNSF Railway Company
Respondent

2454 Occidental Ave S; Suite 2D
Street Address

Seattle, WA 98134
City, State and Zip Code

Mailing Address, if different than the street address

Stephen Semenick
Contact Person Name

(206) 625-6152 Stephen.Semenick@BNSF.com
Contact Phone Number and Email Address

Section 3 – Crossing Location

1. Existing highway/roadway Kelsey Street

2. Existing railroad BNSF Railroad

3. USDOT Crossing No. 084565X

4. GPS location Latitude 47.8600256 Longitude -121.9773100

5. Railroad mile post (nearest tenth) 1769.1

6. City Monroe County Snohomish

Section 4 – Vehicle Traffic

1. Name of highway Kelsey Street

2. Road authority City of Monroe

3. Average annual daily traffic (AADT) 14,250

4. Number of lanes 2

5. Roadway speed 25

6. Is the crossing part of an established truck route? Yes _____ No X

7. If so, trucks are what percent of total daily traffic? _____

8. Is the crossing part of an established school bus route? Yes X No _____

9. If so, how many school buses travel over the crossing each day? 4

10. Describe any changes to the information in 1 through 7, above, expected within ten years:

City project scheduled for 2019 will revise the channelization so there will be 1 southbound and 2 northbound lanes instead of the current 1 southbound and 1 northbound lanes.

Section 5 – Current Crossing Information

1. Railroad company BNSF Railway Company

2. Type of railroad at crossing x Common Carrier □ Logging □ Industrial

x Passenger □ Excursion

3. Type of tracks at crossing x Main Line □ Siding or Spur

4. Number of tracks at crossing 2

5. Average daily train traffic, freight 22

Authorized freight train speed 45 Operated freight train speed 1 to 45

6. Average daily train traffic, passenger 2

Authorized passenger train speed 45 Operated passenger train speed 1 to 45

7. Describe any changes to the information in 1 through 4, above, expected within ten years:

Info obtained from the USDOT Railroad Crossing Inventory. Per discussions and onsite meeting with Stephen Semenick of BNSF RR, there was no indication of any planned changes.

8. What is the available sight distance from the stop bar (or 25 feet from the tracks if no stop bar) on both approaches to the crossing?
Distances are measured to the nearest rail, more or less
Northbound traffic stop bar Sight Distance is approximately 1,000 feet to the west and 500 feet to the east.
Southbound traffic stop bar Sight Distance is approximately 1,700 feet to the west and 250 feet to the east

9. If the sight distance is less than 400 feet, describe the structures, roadway or track curvature, visual obstacles or other characteristics that limit sight distance.
The railroad bungalow obstructs the sight distance for the southbound traffic looking right. Without this obstruction, the sight distance would be approximately 1,600 feet.

Section 6 – Current Warning Devices

Provide a complete description of the warning devices currently located at the crossing (vehicle and pedestrian), including signs, gates, lights, train detection circuitry and any other warning devices.

The RR crossing has 2 gate arms that are lighted, 2 crossbuck assemblies, advance warning signs (W10-1), 2 Do Not Stop On Tracks signs (R8-8), stop lines, RR Xing symbols, 2 cantilevered flashing light structures, 2 mast mounted flashing lights, and a bell.

Section 7 – Description of Proposed Changes

Describe in detail the number and type of proposed automatic signals (vehicle and pedestrian), gates or other warning devices, and/or changes to train detection circuitry. Please describe any other proposed changes at the crossing, including changes to the crossing surface, signage, pavement markings, etc. If sidewalks are being installed, please provide information on who will maintain them. (Attach additional information sheets, if needed.)

The existing equipment will remain. The 2 gate arms will be replaced with new gate arms with lights as their lengths will need to be adjusted for the roadway lane reconfiguration. The southbound gate arm will be replaced with one approximately 6' shorter (20' vs current 26'). The northbound gate are will be replaced with one approximately 10' longer (30' vs current 20'). The two existing stop lines and RR X-ing symbols on the roadway pavement will be removed. Three new stop bars and RR X-ing symbols will be installed so they are correctly aligned in the revised channelization configuration.

Non-mountable curb will be installed on both sides of the crossing to within 1' of the gate arms. The length of curbs will be 60' south of the crossing and approximately 105' north of the crossing.

Section 8 – Illustration of Proposed Warning Devices

Attach a detailed design diagram, drawing, map or other illustration showing all proposed modifications, including signals, signage, pavement markings, sidewalks, etc.

Section 9 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to modify highway-rail grade crossing warning signal system at the following crossing.

USDOT Crossing No. 084565X

We have investigated the conditions at the crossing. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree the warning signal system should be modified and consent to a decision by the commission without a hearing.

Dated at _____ , Washington, on the _____ day of

_____, 20 19 .

Stephen Semenick
Printed name of Respondent

_____
Signature of Respondent's Representative

Manager Public Projects Title

(206) 625-6152 Stephen.Semenick@BNSF.com
Phone number and e-mail address

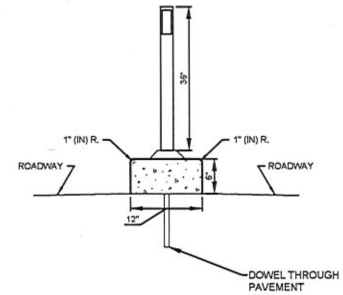
2454 Occidental Ave S; Suite 2D

Seattle, WA 98134
Mailing address

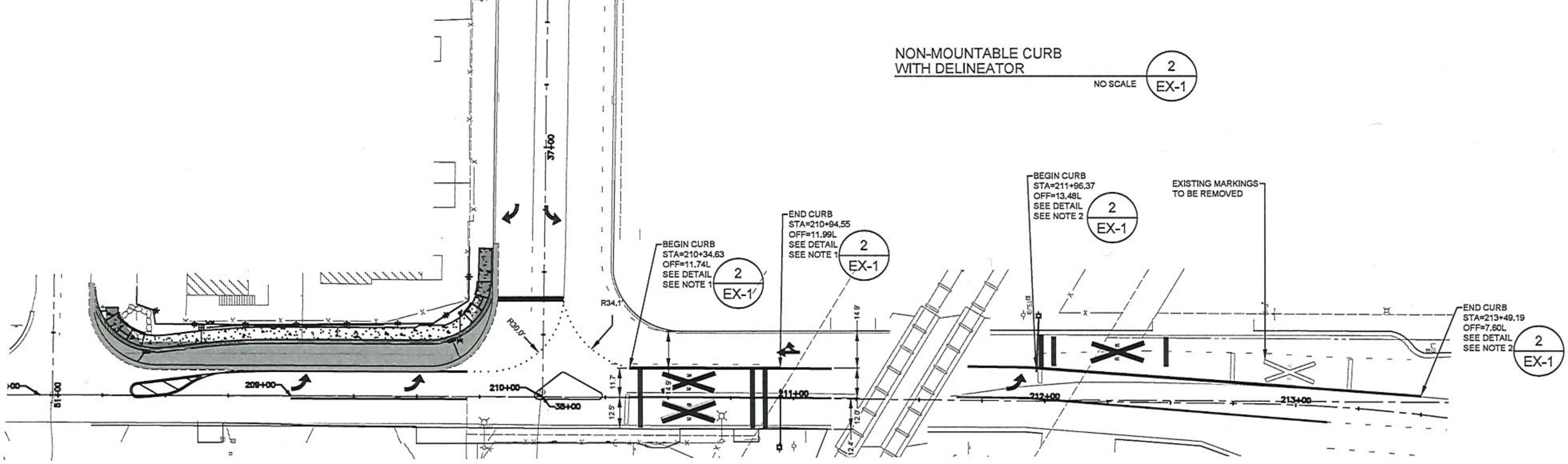

Kelsey St. and Crossing 084565
Visual of proposed lane configuration.
Pavement markings not shown.

NOTES

1. NON-MOUNTABLE CURB TO BEGIN 1' FROM RAILROAD GATE ARM AND EXTEND NO LESS THAN 60'.
2. NON-MOUNTABLE CURB TO BEGIN 1' FROM RAILROAD GATE ARM AND EXTEND APPROXIMATELY 105'.



NON-MOUNTABLE CURB WITH DELINEATOR — NO SCALE — 2 / EX-1



PLAN — 1"=20' — 1 / EX-1

NOT FOR CONSTRUCTION

Know what's below. Call before you dig. 811

MONROE WASHINGTON

PRELIMINARY

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS

CENTURY WEST ENGINEERING
PUGET SOUND OFFICE
33305 13TH PLACE S., SUITE 2
FEDERAL WAY, WA 98003
253.838.2507 OFFICE
253.874.0453 FAX

DATE: NOVEMBER 2018
PROJECT NO: 35007.001.01
DESIGNED BY: RW
DRAWN BY: EKN
CHECKED BY: GC
SCALE: AS NOTED

CITY OF MONROE
KELSEY ST AND BLUEBERRY LANE INTERSECTION

NON-MOUNTABLE CURB

DRAWING NO. EX-1
SHEET NO. 1 OF 1

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
12 / 21 / 2018	☒ 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	084565X

Part I: Location and Classification Information

1. Primary Operating Railroad	2. State	3. County
BNSF Railway Company [BNSF]	WASHINGTON	SNOHOMISH

4. City / Municipality	5. Street/Road Name & Block Number	6. Highway Type & No.
☒ In ☐ Near MONROE	KELSEY ST (Street/Road Name) | * (Block Number)	CITY ST

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

9. Railroad Division or Region	10. Railroad Subdivision or District	11. Branch or Line Name	12. RR Milepost
☐ None NORTHWEST	☐ None SCENIC	☐ None WENACHE-SEATTLE	(prefix) | 1769.139 (nnnn.nnn) | (suffix)

13. Line Segment *	14. Nearest RR Timetable Station *	15. Parent RR (if applicable)	16. Crossing Owner (if applicable)
0037	MONROE	☒ N/A	☐ N/A BNSF

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 ☐ Transit ☒ Intercity Passenger ☐ Shared Use Transit ☐ Commuter ☐ Tourist/Other	☐ Less Than One Per Day ☒ Number Per Day 2

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) 47.8600256	(WGS84 std: -nnn.nnnnnnn) -121.9773100	☐ 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) *	32.B. Narrative (State Use) *

33. Emergency Notification Telephone No. (posted)	34. Railroad Contact (Telephone No.)	35. State Contact (Telephone No.)
800-832-5452	817-352-1549	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?
12	12	0	0	

2. Year of Train Count Data (YYYY)	3. Speed of Train at Crossing
2013	3.A. Maximum Timetable Speed (mph) 45 3.B. Typical Speed Range Over Crossing (mph) From 1 to 45

4. Type and Count of Tracks
Main 1 Siding 0 Yard 1 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.)*
12/21/2018		084565X

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
2	2		☒ W10-1 ____ ☐ W10-3 ____ ☐ W10-11 ____ ☐ W10-2 ____ ☐ W10-4 ____ ☐ W10-12 ____

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____)* ☐ 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)* 2	3.E. Total Count of Flashing Light Pairs
Roadway 2 Pedestrian ____	☐ 2 Quad ☐ Full *(Barrier)* ☐ 3 Quad Resistance ☐ 4 Quad ☐ Median Gates	Over Traffic Lane 2 ☐ Incandescent Not Over Traffic Lane 0 ☐ LED	☐ Incandescent ☐ LED ☐ Back Lights Included ☐ Side Lights Included	14

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)* ____/____ ☐ 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 0 Specify type ____

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 2	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☐ No

5. Crossing Surface *(on Main Track, multiple types allowed)* Installation Date * *(MM/YYYY)* ____/____ Width * ____ Length * ____
☐ 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)* ____	☐ 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	____ 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 1987 AADT 001800	12 %	☐ 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 ____

Photo 1: Northbound view on Kelsey St. of Crossing 084565X with gates raised.

Photo 2: Northbound view on Kelsey St. of Crossing 084565X with gates lowered.

Photo 3: Northbound view on Kelsey St. of northbound gate for Crossing 084565X.

Photo 3: Northbound view on Kelsey St. of southbound gate for Crossing 084565X.