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December 22, 2014

Kathy Hunter
Deputy Assistant Director, Trans. Safety
WUTC
1300 S Evergreen Park Dr. SW
PO Box 47250
Olympia, WA 98504-7250

Re: **Docket No. TR-140479**, Revised Petition for Construction/Reconstruction with Inter-Tie of Grandview Rd. (084841X) at Ferndale in Whatcom Co., WA

Dear Ms. Hunter,

This letter is in support of the aforementioned WUTC petition on behalf of BNSF Railway Company for highway-rail grade crossing upgrades at Grandview Road (DOT# 084841X) in Whatcom Co., WA. The following is supplemental information as provided in Section 12 of the petition for proposed reconstruction.

While in discussion, WSDOT and BNSF engineering came to the agreement that the original proposed advanced warning stand-alone flashing light pole, should be removed. WSDOT and BNSF have determined that the preemption modification, along with the presences of a "No right turn" blank out sign will stop any right turn movements from Portal Way when trains approach or occupy the crossing.

Please review the attached petition and feel free to contact me with any questions.

Sincerely,
Nicholas Konen

Attachments:
UTC Petition Docket No. TR-140479 (USDOT Crossing No. 084841X)

RECEIVED
RECORDS MANAGEMENT
2014 DEC 29 PM 1:55
STATE OF WASH.
UTIL. AND TRANSPORTATION
COMMISSION



WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

)	DOCKET NO. TR-140479
)	
BNSF Railway)	PETITION TO CONSTRUCT OR
_____)	RECONSTRUCT A HIGHWAY-RAIL
Petitioner,)	GRADE CROSSING AND INSTALL
)	AN INTER-TIE BETWEEN A
vs.)	HIGHWAY SIGNAL AND A
Washington State Department of)	RAILROAD CROSSING SIGNAL
Transportation)	SYSTEM
_____)	
Respondent)	
)	
)	USDOT CROSSING NO.: 084841X

Prior to submitting a Petition to **Construct** a highway-rail grade crossing and install an inter-tie between a Highway Signal and a Railroad Crossing Signal System to the Washington Utilities and Transportation Commission (UTC), State Environmental Protection Act (SEPA) requirements must be met. Washington Administrative Code (WAC) 197-11-865 (2) requires:

All actions of the utilities and transportation commission under statutes administered as of December 12, 1975, are exempted, except the following:

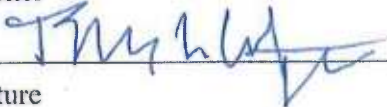
(2) Authorization of the openings or closing of any highway/railroad grade crossing, or the direction of physical connection of the line of one railroad with that of another;

Please attach sufficient documentation to demonstrate that the SEPA requirement has been fulfilled. For additional information on SEPA requirements contact the Department of Ecology.

The Petitioner asks the Washington Utilities and Transportation Commission to approve construction or reconstruction of a highway-rail grade crossing and inter-tie the highway signal with the railroad crossing signal system.

Construction Reconstruction

Section 1 – Petitioner’s Information

BNSF Railway Company
Petitioner

Signature
2454 Occidental Avenue South, Suite 2D
Street Address
Seattle, Washington 98134
City, State and Zip Code
Same as above
Mailing Address, if different than the street address
Richard Wagner
Contact Person Name
(206) 625-6152
Richard.Wagner@BNSF.com
Contact Phone Number and E-mail Address

Section 2 – Respondent’s Information

Washington State Department of Transportation
Respondent
310 Maple Park Ave. SE
Street Address
Olympia, WA 98504
City, State and Zip Code
P.O. Box 47329
Mailing Address, if different than the street address
Ahmer Nizam (Manager – Utilities/Railroad/Agreements)
Contact Person Name
(360) 705-7271
nizama@wsdot.wa.gov
Contact Phone Number and E-mail Address

Section 3 – Proposed or Existing Crossing Location

1. Existing highway/roadway Grandview Road

2. Existing railroad BNSF Railway (Bellingham Subdivision)

3. Location of proposed crossing:
Located in the SW 1/4 of the SE 1/4 of Sec. 006 , Twp. 23N, Range 2E W.M.

4. GPS location, if known 48.8920572, -122.6029834

5. Railroad mile post (nearest tenth) 109.32

6. City Ferndale County Whatcom

Section 4 – Proposed or Existing Crossing Information

1. Railroad company BNSF Railway Company

2. Type of railroad at crossing Common Carrier Logging Industrial
 Passenger Excursion

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

4. Number of tracks at crossing One (1)

5. Average daily train traffic, freight Seventeen (17) trains/day
Authorized freight train speed 60 mph Operated freight train speed 0-60 mph

6. Average daily train traffic, passenger Four (4) trains/day
Authorized passenger train speed 79 mph Operated passenger train speed 0-79 mph

7. Will the proposed crossing eliminate the need for one or more existing crossings?
Yes No

8. If so, state the distance and direction from the proposed crossing.
N/A

9. Does the petitioner propose to close any existing crossings?
Yes No

Section 5 – Temporary Crossing

1. Is the crossing proposed to be temporary? Yes No

2. If so, describe the purpose of the crossing and the estimated time it will be needed

N/A

3. Will the petitioner remove the crossing at completion of the activity requiring the temporary crossing? Yes No

Approximate date of removal N/A

Section 6 – Current Highway Traffic Information

1. Name of roadway/highway Grandview Road/State Route 548

2. Roadway classification Rural Major Collector

3. Road authority Washington State Department of Transportation

4. Average annual daily traffic (AADT) 10,296 (AADT Year: 2014)

5. Number of lanes Two (2)

6. Roadway speed 35 mph

7. Is the crossing part of an established truck route? Yes No

8. If so, trucks are what percent of total daily traffic? 13% (2014)

9. Is the crossing part of an established school bus route? Yes No

10. If so, how many school buses travel over the crossing each day? 10 (4/10/14), 4 WTA busses

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

None

Section 7 – Alternatives to the Proposal

1. Does a safer location for a crossing exist within a reasonable distance of the proposed location?

Yes No

2. If a safer location exists, explain why the crossing should not be located at that site.

N/A

3. Are there any hillsides, embankments, buildings, trees, railroad loading platforms or other barriers in the vicinity which may obstruct a motorist's view of the crossing?

Yes No

4. If a barrier exists, describe:

- ◆ Whether petitioner can relocate the crossing to avoid the obstruction and if not, why not.
- ◆ How the barrier can be removed.
- ◆ How the petitioner or another party can mitigate the hazard caused by the barrier.

Signal bungalow in southwest quadrant of crossing located at standard crossing bungalow location (shown on crossing plan page). Installed per BNSF standard

5. Is it feasible to construct an over-crossing or under-crossing at the proposed location as an alternative to an at-grade crossing?

Yes No

6. If an over-crossing or under-crossing is not feasible, explain why.

Limited distance between railroad track(s) and intersection of Portal Way/Grandview

Road on the east side of existing BNSF Railway mainline for a grade separated approach

7. Does the railway line, at any point in the vicinity of the proposed crossing, pass over a fill area or trestle or through a cut where it is feasible to construct an over-crossing or an under-crossing, even though it may be necessary to relocate a portion of the roadway to reach that point?

Yes No

8. If such a location exists, state:

- ◆ The distance and direction from the proposed crossing.
- ◆ The approximate cost of construction.
- ◆ Any reasons that exist to prevent locating the crossing at this site.

N/A

9. Is there an existing public or private crossing in the vicinity of the proposed crossing?

Yes No

10. If a crossing exists, state:

- ◆ The distance and direction from the proposed crossing.
 - ◆ Whether it is feasible to divert traffic from the proposed to the existing crossing.
- As a part of the BNSF Railway project, two public crossings and one private crossing in

or around the City of Ferndale, WA will be revised or reconstructed. The closest existing

public crossing to Grandview Road is Brown Road (DOT# 084839W). It is located

approximately 0.72 miles to the south of the existing Grandview Road crossing. It is feasible

to divert traffic to Brown Road during the revision/reconstruction of Grandview Road.

Section 8 – Sight Distance

1. Complete the following table, describing the sight distance for motorists when approaching the tracks from either direction.

a. Approaching the crossing from East, the current approach provides an unobstructed view as follows: (North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	N/A Portal Way Intersection
Right	200	N/A Portal Way Intersection
Right	100	N/A Portal Way Intersection
Right	50	690'
Right	25	2,100'
Left	300	N/A Portal Way Intersection
Left	200	N/A Portal Way Intersection
Left	100	N/A Portal Way Intersection
Left	50	3,500'
Left	25	3,500'

b. Approaching the crossing from West, the current approach provides an unobstructed view as follows: (Opposite direction-North, South, East, West)

Direction of sight (left or right)	Number of feet from proposed crossing	Provides an unobstructed view for how many feet
Right	300	30'
Right	200	70'
Right	100	1,400'
Right	50	3,500'
Right	25	3,500'
Left	300	110'
Left	200	210'
Left	100	535'
Left	50	1,400'
Left	25	1,400'

2. Will the new crossing provide a level approach measuring 25 feet from the center of the railway on both approaches to the crossing?

Yes No

3. If not, state in feet the length of level grade from the center of the railway on both approaches to the crossing. 10'

4. Will the new crossing provide an approach grade of not more than five percent prior to the level grade?

Yes No

5. If not, state the percentage of grade prior to the level grade and explain why the grade exceeds five percent.

N/A

Section 9 – Illustration of Proposed Crossing Configuration

Attach a detailed diagram, drawing, map or other illustration showing the following:

- ◆ The vicinity of the proposed crossing.
- ◆ Layout of the railway and highway 500 feet adjacent to the crossing in all directions.
- ◆ Percent of grade.
- ◆ Obstructions of view as described in Section 7 or identified in Section 8.
- ◆ Traffic control layout showing the location of the existing and proposed signage.

Section 10 – Sidewalks

1. Provide the following information:

- a. Provide a description of the type of sidewalks proposed.
- b. Describe who will maintain the sidewalks.
- c. Attach a proposed diagram or design of the crossing including the sidewalks.

N/A

Section 11 – Proposed Warning Signals or Devices

1. Explain in detail the number and type of automatic signals or other warning devices planned at the proposed crossing, including a cost estimate for each. If requesting pre-emption include the type of train detection circuitry, sequencing and advanced preemption time, justification for the changes and its effects on current warning devices and warning times for drivers.

Crossing will have the following items at the completion of the project:

Signs – Advanced Warning Signs, Stop Lines, RR Xing Symbols, 2 Tracks Signs

Train-Activated Devices – Two (2) gates, Two (2) Mast-Mounted Flashing Lights w/bells

Track will be equipped with (Constant Warning) Train Detection Circuitry

“No Right Turn” Blank-out Sign for Southbound Portal Way Traffic

2. Provide an estimate for maintaining the signals for 12 months. N/A

3. Is the petitioner prepared to pay to the respondent railroad company its share of installing the warning devices as provided by law?

Yes No X

Section 12 – Traffic Signal Preemption

Complete the attached Guide for Determining Time Requirements for Traffic Signal Preemption at Highway-Rail Grade Crossings.

1. Specify simultaneous or advance preemption requested.

Advance

If advance preemption, what is the preemption time.

22 seconds (Previously 21 seconds)

Section 13 – Additional Information

Provide any additional information supporting the proposal, including information such as the public benefits that would be derived from constructing a new crossing as proposed or modifying an existing crossing. Provide project specific information.

Advanced preemption time will be increased from 21 seconds to 22 seconds.

Section 14 – Waiver of Hearing by Respondent

Waiver of Hearing

The undersigned represents the Respondent in the petition to construct or reconstruct a highway-railroad grade crossing and inter-tie the highway signal with the railroad crossing signal system.

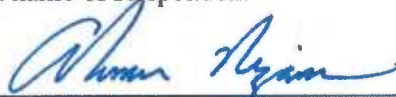
USDOT Crossing No.: 084841X

We have investigated the conditions at the proposed or existing crossing site. We are satisfied the conditions are the same as described by the Petitioner in this docket. We agree that a crossing be installed or reconstructed and the highway signals inter-tied with the railroad crossing signal system and consent to a decision by the commission without a hearing.

Dated at Olympia, Washington, on the 12th day of December, 20 14.

Ahmer Nizam

Printed name of Respondent



Signature of Respondent's Representative

Manager – Utilities/Railroad/Agreements

Title

Washington State Department of Transportation

Name of Company

(360) 705-7271 nizama@wsdot.wa.gov

Phone number and e-mail address

P.O. Box 47329

Olympia, WA 98504

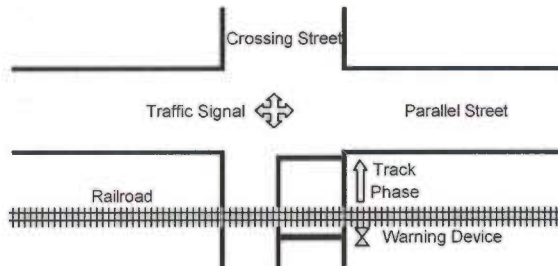
Mailing address



Minnesota Department of Transportation
GUIDE FOR DETERMINING TIME REQUIREMENTS FOR
TRAFFIC SIGNAL PREEMPTION AT HIGHWAY-RAIL GRADE CROSSINGS

City _____
 County Whatcom WA
 District _____

Date 03/04/14
 Completed by Alex Zhang
 District Approval _____



Parallel Street Name
Portal Way
 Crossing Street Name
SR548 (Grandview Rd)

Railroad BNSF
 Crossing DOT# 084841X

Railroad Contact _____
 Phone _____

SECTION 1: RIGHT-OF-WAY TRANSFER TIME CALCULATION

Preempt verification and response time

- | | | | |
|--|----|----------------------------------|---|
| 1. Preempt delay time (seconds) | 1. | <input type="text" value="0.0"/> | Remarks

Controller type: <u>2070</u> |
| 2. Controller response time to preempt (seconds) | 2. | <input type="text" value="1.0"/> | |
| 3. Preempt verification and response time (seconds): add lines 1 and 2 | 3. | <input type="text" value="1.0"/> | |

Worst-case conflicting vehicle time

- | | | | |
|---|----|-----------------------------------|--|
| 4. Worst-case conflicting vehicle phase number | 4. | <input type="text" value="2"/> | Remarks

_____ |
| 5. Minimum green time during right-of-way transfer (seconds) | 5. | <input type="text" value="7.0"/> | |
| 6. Other green time during right-of-way transfer (seconds) | 6. | <input type="text" value="0.0"/> | |
| 7. Yellow change time (seconds) | 7. | <input type="text" value="4.0"/> | |
| 8. Red clearance time (seconds) | 8. | <input type="text" value="1.0"/> | |
| 9. Worst-case conflicting vehicle time (seconds): add lines 5 through 8 | 9. | <input type="text" value="12.0"/> | |

Worst-case conflicting pedestrian time

- | | | | |
|---|-----|-----------------------------------|---|
| 10. Worst-case conflicting pedestrian phase number | 10. | <input type="text" value="3"/> | Remarks

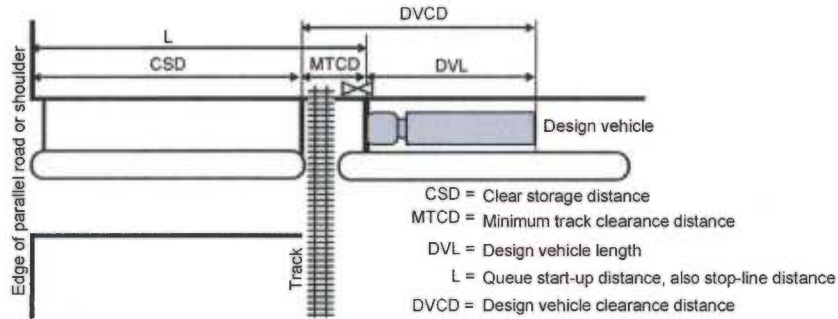
<u>55ft/3.5ft/s=15.7-4.7-1</u>

_____ |
| 11. Minimum walk time during right-of-way transfer (seconds) | 11. | <input type="text" value="0.0"/> | |
| 12. Pedestrian clearance time during right-of-way transfer (seconds) | 12. | <input type="text" value="10.0"/> | |
| 13. Vehicle yellow change time, if not included on line 12 (seconds) | 13. | <input type="text" value="4.7"/> | |
| 14. Vehicle red clearance time, if not included on line 12 (seconds) | 14. | <input type="text" value="1.0"/> | |
| 15. Worst-case conflicting pedestrian time (seconds): add lines 11 through 14 | 15. | <input type="text" value="15.7"/> | |

Worst-case conflicting vehicle or pedestrian time

- | | | |
|--|-----|-----------------------------------|
| 16. Worst-case conflicting vehicle or pedestrian time (seconds): maximum of lines 9 and 15 | 16. | <input type="text" value="15.7"/> |
| 17. Right-of-way transfer time (seconds): add lines 3 and 16 | 17. | <input type="text" value="16.7"/> |

SECTION 2: QUEUE CLEARANCE TIME CALCULATION



		Remarks
18. Clear storage distance (CSD, feet)	18. <input style="width: 50px;" type="text" value="45"/>	
19. Minimum track clearance distance (MTCD, feet)	19. <input style="width: 50px;" type="text" value="52"/>	Line 20 need to be checked.
20. Design vehicle length (DVL, feet)	20. <input style="width: 50px;" type="text" value="74"/>	Design vehicle type: <u>WB 67</u>
21. Queue start-up distance, L (feet): add lines 18 and 19	21. <input style="width: 50px;" type="text" value="97"/>	
22. Time required for design vehicle to start moving (seconds): calculate as 2+(L+20)	22. <input style="width: 50px;" type="text" value="6.9"/>	Remarks
23. Design vehicle clearance distance, DVCD (feet): add lines 19 and 20	23. <input style="width: 50px;" type="text" value="126"/>	
24. Time for design vehicle to accelerate through the DVCD (seconds)	24. <input style="width: 50px;" type="text" value="16.0"/>	Read from Figure 2 in Instructions.
25. Queue clearance time (seconds): add lines 22 and 24	25. <input style="width: 50px;" type="text" value="22.9"/>	

SECTION 3: MAXIMUM PREEMPTION TIME CALCULATION

		Remarks
26. Right-of-way transfer time (seconds): line 17	26. <input style="width: 50px;" type="text" value="16.7"/>	
27. Queue clearance time (seconds): line 25	27. <input style="width: 50px;" type="text" value="22.9"/>	
28. Desired minimum separation time (seconds)	28. <input style="width: 50px;" type="text" value="4.0"/>	
29. Maximum preemption time (seconds): add lines 26 through 28	29. <input style="width: 50px;" type="text" value="43.6"/>	

SECTION 4: SUFFICIENT WARNING TIME CHECK

		Remarks
30. Required minimum time, MT (seconds): per regulations	30. <input style="width: 50px;" type="text" value="20.0"/>	
31. Clearance time, CT (seconds): get from railroad	31. <input style="width: 50px;" type="text" value="2.0"/>	
32. Minimum warning time, MWT (seconds): add lines 30 and 31	32. <input style="width: 50px;" type="text" value="22.0"/>	Excludes buffer time (BT)
33. Advance preemption time, APT, if provided (seconds): get from railroad ..	33. <input style="width: 50px;" type="text" value="0.0"/>	
34. Warning time provided by the railroad (seconds): add lines 32 and 33	34. <input style="width: 50px;" type="text" value="22.0"/>	
35. Additional warning time required from railroad (seconds): subtract line 34 from line 29, round up to nearest full second, enter 0 if less than 0	35. <input style="width: 50px;" type="text" value="22"/>	

If the additional warning time required (line 35) is greater than zero, additional warning time has to be requested from the railroad. Alternatively, the maximum preemption time (line 29) may be decreased after performing an engineering study to investigate the possibility of reducing the values on lines 1, 5, 6, 7, 8, 11, 12, 13 and 14.

Remarks: _____

SECTION 5: TRACK CLEARANCE GREEN TIME CALCULATION (OPTIONAL)

Preempt Trap Check

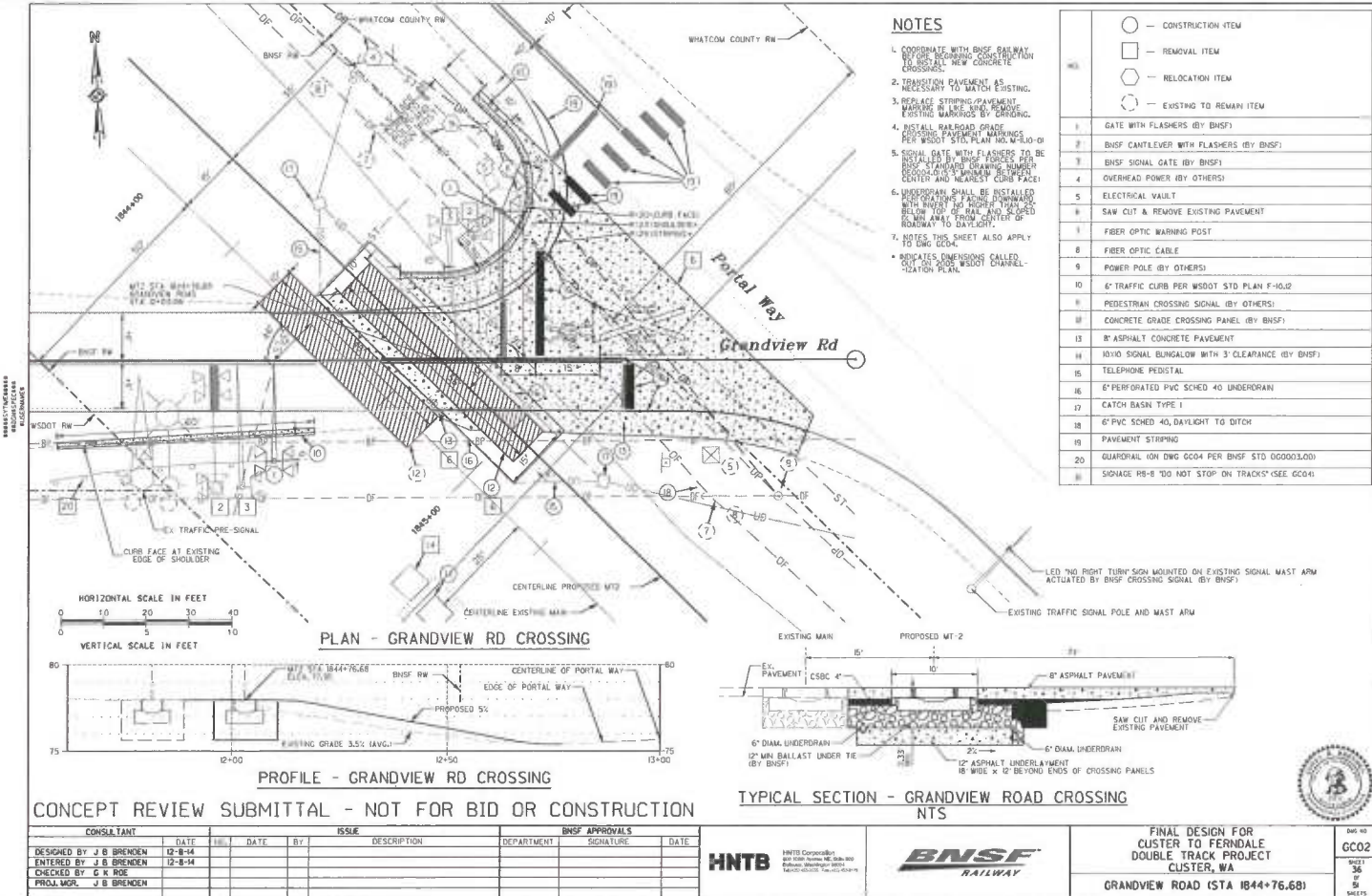
- 36. Advance preemption time (APT) provided (seconds): 36. Line 33 only valid if line 35 is zero.
- 37. Multiplier for maximum APT due to train handling 37. See Instructions for details.
- 38. Maximum APT (seconds): multiply line 36 and 37 38. **Remarks**
- 39. Minimum duration for the track clearance green interval (seconds) 39. For zero advance preemption time
- 40. Gates down after start of preemption (seconds): add lines 38 and 39 40.
- 41. Preempt verification and response time (seconds): line 3 41. **Remarks**
- 42. Best-case conflicting vehicle or pedestrian time (seconds): usually 0 42.
- 43. Minimum right-of-way transfer time (seconds): add lines 41 and 42 43.
- 44. Minimum track clearance green time (seconds): subtract line 43 from line 40 44.

Clearing of Clear Storage Distance

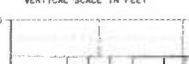
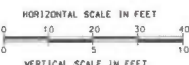
- 45. Time required for design vehicle to start moving (seconds), line 22 45.
- 46. Design vehicle clearance distance (DVCD, feet), line 23 46. **Remarks**
- 47. Portion of CSD to clear during track clearance phase (feet) ... 47. CSD* in Figure 3 in Instructions.
- 48. Design vehicle relocation distance (DVRD, feet): add lines 46 and 47 48.
- 49. Time required for design vehicle to accelerate through DVRD (seconds) 49. Read from Figure 2 in Instructions.
- 50. Time to clear portion of clear storage distance (seconds): add lines 45 and 49 50.
- 51. Track clearance green interval (seconds): maximum of lines 44 and 50, round up to nearest full second 51.

SECTION 6: VEHICLE-GATE INTERACTION CHECK (OPTIONAL)

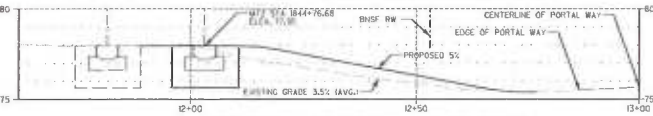
- 52. Right-of-way transfer time (seconds): line 17 52.
- 53. Time required for design vehicle to start moving (seconds), line 22 53.
- 54. Time required for design vehicle to accelerate through DVL (on line 20, seconds) 54. Read from Table 3 in Instructions.
- 55. Time required for design vehicle to clear descending gate (seconds): add lines 52 through 54 55. **Remarks**
- 56. Duration of flashing lights before gate descent start (seconds): get from railroad 56. **Remarks**
- 57. Full gate descent time (seconds): get from railroad 57. 1 ft is used for Fig 5.
- 58. Proportion of non-interaction gate descent time 58. Read from Figure 5 in Instructions.
- 59. Non-interaction gate descent time (seconds): multiply lines 57 and 58 59.
- 60. Time available for design vehicle to clear descending gate (seconds): add lines 56 and 59 60.
- 61. Advance preemption time (APT) required to avoid design vehicle-gate interaction (seconds):
subtract line 60 from line 55, round up to nearest full second, enter 0 if less than 0 61.



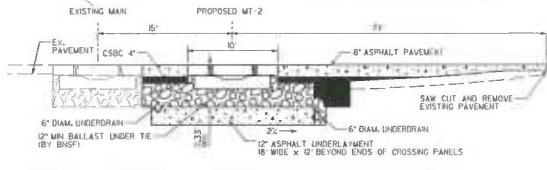
- NOTES**
- COORDINATE WITH BNSF RAILWAY FOR TRACK CONSTRUCTION TO INCLUDE NEW CONCRETE CROSSINGS.
 - TRANSITION PAVEMENT AS NECESSARY TO MATCH EXISTING.
 - SEE ALL STRIPING/PAVEMENT MARKINGS TO BE MAINTAINED EXISTING MARKINGS BY CHANGING.
 - INSTALL BARRICADE GRADE PER WSDOT STD PLAN NO. W-130-01
 - SIGNAL GATE WITH FLASHERS TO BE INSTALLED BY BNSF FORCE PER BNSF STANDARD DRAWING NUMBER CROSSINGS NEW TRACK CENTER AND NEAREST CURB FACE.
 - UNDERPASS SHALL BE INSTALLED WITH MINIMUM 10% SLOPE BELOW TOP OF RAIL AND SLOPED 50' MIN AWAY FROM CENTER OF ROADWAY TO DAYLIGHT.
 - NOTES THIS SHEET ALSO APPLY TO DRG 004.
- INDICATES DIMENSIONS CALLED OUT ON ROAD CROSSING LOCATION PLAN.
- | | |
|---|-------------------------|
| ○ | CONSTRUCTION ITEM |
| □ | REMOVAL ITEM |
| ◐ | RELOCATION ITEM |
| ⊖ | EXISTING TO REMAIN ITEM |
- | | |
|----|---|
| 1 | GATE WITH FLASHERS (BY BNSF) |
| 2 | BNSF CANTILEVER WITH FLASHERS (BY BNSF) |
| 3 | BNSF SIGNAL GATE (BY BNSF) |
| 4 | OVERHEAD POWER (BY OTHERS) |
| 5 | ELECTRICAL VAULT |
| 6 | SAW CUT & REMOVE EXISTING PAVEMENT |
| 7 | FIBER OPTIC WARNING POST |
| 8 | FIBER OPTIC CABLE |
| 9 | POWER POLE (BY OTHERS) |
| 10 | 6" TRAFFIC CURB PER WSDOT STD PLAN F-10.02 |
| 11 | PEDESTRIAN CROSSING SIGNAL (BY OTHERS) |
| 12 | CONCRETE GRADE CROSSING PANEL (BY BNSF) |
| 13 | 8" ASPHALT CONCRETE PAVEMENT |
| 14 | JOJO SIGNAL BUNGALOW WITH 3' CLEARANCE (BY BNSF) |
| 15 | TELEPHONE PEDSTAL |
| 16 | 6" PERFORATED PVC SCHED 40 UNDERDRAN |
| 17 | CATCH BASIN TYPE I |
| 18 | 6" PVC SCHED 40 DAYLIGHT TO DITCH |
| 19 | PAVEMENT STRIPING |
| 20 | GUARDRAIL (ON DRWG C004 PER BNSF STD. C00003.000) |
| 21 | SIGNAGE PB-8 'DO NOT STOP ON TRACKS' (SEE C004) |



PLAN - GRANDVIEW RD CROSSING



PROFILE - GRANDVIEW RD CROSSING



TYPICAL SECTION - GRANDVIEW ROAD CROSSING NTS

CONCEPT REVIEW SUBMITTAL - NOT FOR BID OR CONSTRUCTION

CONSULTANT		ISSUE			BNSF APPROVALS		
DESIGNED BY	DATE	ISSUE	DATE	BY	DEPARTMENT	SIGNATURE	DATE
J B BRENDEN	12-8-14						
ENTERED BY	DATE						
J B BRENDEN	12-8-14						
CHECKED BY							
C K ROE							
PROJ. MGR.							
J B BRENDEN							



FINAL DESIGN FOR
 CUSTER TO FERNALE
 DOUBLE TRACK PROJECT
 CUSTER, WA
 GRANDVIEW ROAD (STA 1844+76.68)



DWG NO
GC02
 SHEET
 36
 OF
 51
 SHEETS



Google Earth Pro

feet
meters

