

EXHIBIT ‘F’

**HIGHWAY – RAIL GRADE CROSSING
DIAGNOSTIC EVALUATION REPORT**

HIGHWAY-RAIL GRADE CROSSING DIAGNOSTIC EVALUATION REPORT

Street/Road Name: 9TH STREET	USDOT Crossing No.: 065838 N	Date: 11-6-2017
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DIAGNOSTIC ATTENDANCE				
No.	Name	Affiliation	Phone No.	E-Mail
1.	CONNIE RAEZER	WSDOT	360.705.7459	raezerc@wsdot.wa.gov
2.	BETTY YOUNG	UTC	360.664.1202	byoung@utc.wa.gov
3.	STEPHEN SEMENICK	BNSF	206.625.6152	stephen.semenick@bnsf.com
4.	STEVEN FREEMAN	BNSF		steven.freeman@bnsf.com
5.	PAUL MAHRE	WSDOT	509.667.3090	Mahre.P@wsdot.wa.gov
6.	WILLIAM WONGH	WSDOT	360.705.7379	William.Wongh@wsdot.wa.gov
7.	GARY OWEN	CITY OF WENATCHEE	509.888.3204	gowen@wenatchee.wa.gov
8.	JENNIFER SAUGEN	CITY OF WENATCHEE	509.888.3213	jsaugen@wenatchee.wa.gov
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

CONTACTS

(Contact name, agency or company, department, address, phone number, e-mail address)

School District: **sanford.robert@wenatchee.schools.org**
BOB SANFORD, WENATCHEE SCHOOL DISTRICT, TRANSPORTATION, 509.662.6168,

Transit: **LAUREN LOEBBACH, LINK TRANSIT, PLANNING OFFICER, 509.664.7600, lauren@linktransit.com**

Other (Specify):

Other (Specify):

Other (Specify):

Other (Specify):

Other (Specify):

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DIAGNOSTIC INFORMATION	
Funded By:	<input checked="" type="checkbox"/> SECTION130 <input type="checkbox"/> STATE <input type="checkbox"/> RR <input type="checkbox"/> OTHER _____
Initiated By:	<input type="checkbox"/> STATE <input type="checkbox"/> RR <input checked="" type="checkbox"/> LOCAL <input type="checkbox"/> OTHER _____
Purpose of Diagnostic: TO IMPROVE RAIL CROSSING SAFETY FOR PEDESTRIANS, BICYCLES, & VEHICLES.	

LOCATION INFORMATION			
Railroad Name: BNSF	County: CHELAN	City (In or Near): WENATCHEE	
R.R. Line / I.D.: NORTHWEST SCENIC 701	Nearest R.R. Timetable Station: 843180	R.R. Milepost: 1651.3	ENS Sign Present? <input type="checkbox"/> If Yes, #:

RAILROAD INFORMATION					
DAILY TRAIN MOVEMENT*		MAXIMUM SPEED OF TRAIN		TYPE AND NUMBER OF TRACKS	
PASSENGER	2	PASSENGER	50 mph	MAIN	2
FREIGHT	20	FREIGHT	45 mph	OTHER	
*CHECK IF LESS THAN ONE MOVEMENT PER DAY <input type="checkbox"/>		CROSSING ANGLE DEGREES: 90.17°		Can two trains occupy crossing at same time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Crossing is Quiet Zone? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Can one train block the motorist's view of another train at the crossing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If Yes, explain: PARALLEL TRACKS AT SAME GRADE
Xing Surface	TRACK	SURFACE TYPE	WIDTH (Feet)	CONDITION (Poor, Fair, Good, New)	
	EASTERLY	CONCRETE PANELS	49'	GOOD	
	WESTERLY	CONCRETE PANELS	49'	GOOD	

Crossing adjacent or within railyard? Yes No

FIVE-YEAR ACCIDENT DATA FROM WUTC				
TOTAL ACCIDENTS	2	Number with Injuries	Number with Fatalities	Number with Property Damage Only
Have any near misses occurred? <input type="checkbox"/> Yes <input type="checkbox"/> No			Explain:	

Source of Data: **FEDERAL RAILROAD ADMINISTRATION**

Adjacent Railroad Crossings within 1/4 Mile			
USDOT No.	Street/Road Name	Warning Devices	AADT

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EXISTING WARNING DEVICES																	
Type of Passive Warning Device							Type of Active Warning Device										
Type	Qty	NB	SB	WB	EB	Type	Qty	NB	SB	WB	EB			LED			
<input checked="" type="checkbox"/> R15-1				1	1	<input type="checkbox"/> R1-2						Flashing Light Type		Qty.	Lenses		
<input checked="" type="checkbox"/> R15-2				1	1	<input type="checkbox"/> W3-2						<input checked="" type="checkbox"/>	Mast Mounted Flashing Lights		8"	12"	
<input checked="" type="checkbox"/> W10-1				1	1	<input type="checkbox"/> R8-10						<input checked="" type="checkbox"/>	Cantilever Flashing Lights			3	
<input type="checkbox"/> W10-2						<input type="checkbox"/> R10-6						<input checked="" type="checkbox"/>	Back Lights			4	
<input type="checkbox"/> W10-3						<input type="checkbox"/> W10-5						<input checked="" type="checkbox"/>	Side Lights			4	
<input type="checkbox"/> W10-4						<input type="checkbox"/> W10-11						Gate Type		Qty.	Location(s)		
<input type="checkbox"/> R8-8						<input type="checkbox"/> W10-12						<input checked="" type="checkbox"/>	Entrance	2	EAST BOUND & WEST BOUND		
<input type="checkbox"/> R1-1						<input type="checkbox"/> R15-8						<input type="checkbox"/>	Exit				
<input type="checkbox"/> W3-1						<input checked="" type="checkbox"/> W10-9					1	1	<input type="checkbox"/>	Pedestrian			
<input type="checkbox"/> R3-5						Note: Choose direction that is closest to direction of traffic flow over crossing.					<input type="checkbox"/>	Pedestrian Swing					
Is the crossing illuminated?							<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Other Devices				Qty.	Location(s)			
See "Typical MUTCD Signs at Highway-Rail Crossings" on page following.									<input type="checkbox"/> Bells								
Pavement Striping									<input type="checkbox"/> Modified Blank Out Sign w/ Train Indicator								
Type		Qty.		Location(s)					<input type="checkbox"/> R3-1 Blank Out Sign								
<input checked="" type="checkbox"/>	Stop Bars	2		EAST BOUND & WEST BOUND					<input type="checkbox"/> R3-2 Blank Out Sign								
<input type="checkbox"/>	RxR								<input type="checkbox"/> Other Blank Out Sign ()								
<input type="checkbox"/>	No Passing								<input type="checkbox"/> Other Specify:								
<input checked="" type="checkbox"/>	Lane Lines			DOUBLE YELLOW EAST BOUND & WEST BOUND					Device Notes:								
<input type="checkbox"/>	Other																

TRAFFIC SIGNAL INTERCONNECTION AND PREEMPTION			
Are highway traffic signals interconnected?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is preemption existent at the crossing?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Do pre-signals exist at the crossing?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

CLOSURE	
Can roadway realignment be accomplished to allow crossing consolidation? If yes, provide sketch.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Impact of Closure:	Sketch:

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ROADWAY INFORMATION

Agency Having Jurisdiction (Road Owner): CITY OF WENATCHEE		Highway Type: MINOR ARTERIAL	AADT: 4,950	Truck Traffic: 10 %
Vehicle Speeds	School Bus Operation	Hazardous Materials	Pedestrians	Roadway Surface: CONC. ASPH.
Posted 25 m.p.h.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Roadway Width: 40'
Typical 28 to 33 m.p.h.	4 No. / Day	10 No. / Day	Curb & Gutter	Roadway Condition: FAIR
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number Lanes: 3
Is Shoulder Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes, Width:	Is Shoulder Surfaced? <input type="checkbox"/> Yes <input type="checkbox"/> No	Is Sidewalk Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, Width: 4.5'
Channelization (Medians w/ Gates): <input type="checkbox"/> All Approaches <input type="checkbox"/> One Approach <input checked="" type="checkbox"/> None				

Special Conditions Required as a Result of Nearby Highway Intersections:

PIERE ST. INTERSECTS 9TH ST. 123' EAST OF THE MAIN TRACK CENTER LINE, HINDERING THE OPTION OF USING A MEDIAN TREATMENT.

TYPE OF DEVELOPMENT

<input type="checkbox"/> Open Space <input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Commercial	
Planned developments that could affect AADT? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If yes, explain: CONSTRUCTION OF PIERE STREET APARTMENTS

SHARED PATHWAY CROSSING INFORMATION

Yes	No	Crossing Information	Pedestrian and Bike Trips	AADT
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is Crossing Surface Smooth?	Pedestrian:	80
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is Adequate Lighting Available?	Bicycle:	30
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Does Crossing Panel Extend 1' Behind Back of Path?	Notes:	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is Path Width Adequate? (48" Minimum)		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are Flange Gaps 2½" or Less, or Flange Fillers Used?		

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the crossing adjacent to a passenger station? If yes, picture or sketch access from station:

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PICTURES OR COMPREHENSIVE SKETCH OF CROSSING

(Include location of warning devices, nearby schools, emergency services facilities, and other landmarks):

SEE ATTACHED EXHIBIT "A"

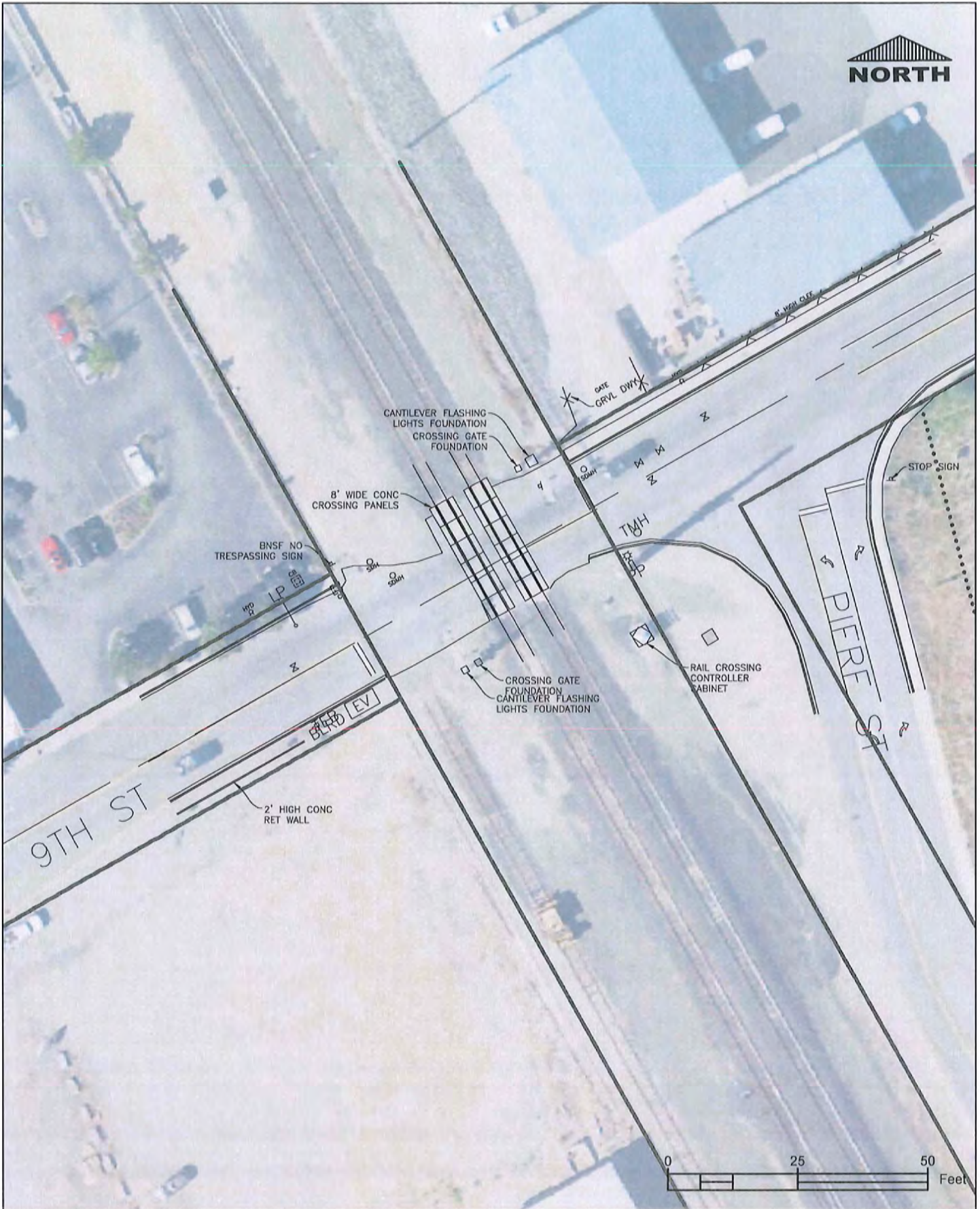
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RECOMMENDATIONS			
ARE IMPROVEMENTS TO THE CROSSING RECOMMENDED?		If No, Explain:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		ACCOMMODATION FOR PEDESTRIANS & BICYCLES NEEDED	
If Yes, what improvements?			
Yes	No	Type of Improvement	Describe
<input type="checkbox"/>	<input type="checkbox"/>	Sight Improvement	
<input type="checkbox"/>	<input type="checkbox"/>	Crossing Surface	
<input type="checkbox"/>	<input type="checkbox"/>	Roadway Approaches	
<input type="checkbox"/>	<input type="checkbox"/>	Highway Traffic Signs	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Crossing Signals	UPDATE TO CURRENT STANDARDS
<input type="checkbox"/>	<input type="checkbox"/>	Crossing Closure	
Prepared By: GARY OWEN		Title: CITY ENGINEER	Date: 11-6-2017
Comments:			

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DESIGNED	SCALE 1:50
DRAWN JBV	DATE 1-06-2017
CHECKED	REVISION
FILE	



EXHIBIT "A"
 9TH ST CROSSING CONDITIONS

PROJECT NO.
 SHT 1 OF 1



R1-1



R1-2



R3-1a
Activated Blank-Out



R3-2a
Activated Blank-Out



R8-8



R8-9



R8-10



R8-10a



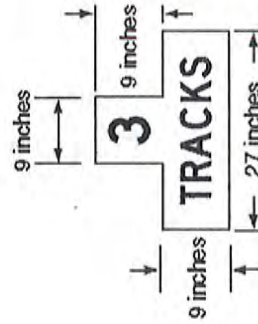
R10-6



R10-6a



R15-1



R15-2P



R15-3P

R3-5 is a left turn oriented example.



R3-5



W10-1



W10-1aP



W10-2



W10-3



W10-4



W10-5



W10-5P



W10-7
Activated
Blank-Out



W10-8



W10-14P



W10-14aP



W10-9



W10-9P



W10-11



W10-11a



W10-11b



W10-12



W10-13P



W10-15P

Note: The W10-11 sign is a W10-3 sign modified for geometrics. Other signs can be oriented or revised as needed to better portray the geometrics of the roadways and the tracks.



R15-8