JTC Road-Rail Conflicts Project: Proposed Criteria

LEVEL 1 CRITERIA

ID	Data/Criterion	Proposed Weight	Possible Measurement	Objective Measured	Notes	Data Source		
Level 1 Criteria								
1	Class I, II, or III Railroad Classification	Medium	Classification	Mobility	Readily availableReliable data source	UTCWSDOT		
2	Vehicle Volumes	High	ADT; AADT	Mobility	 Not readily available for all crossings Some data is outdated Would be inconsistent sourcing 	WSDOTlocal citiesINRIXRTPOs/MPOs		
3	Rail Volumes/Frequencies	High	Daily Train Traffic	Mobility	 Freight/passenger volumes readily available for Class I rail lines Freight/passenger volumes not readily available for class II or III rail lines Existing coal and oil train volumes are readily available Future coal and oil train volumes are readily available Varying sources of data need to be reconciled May not reflect daily fluctuations 	 WSDOT Pacific Northwest Marine Cargo Forecast Federal Railroad Administration Department of Ecology Gateway Pacific Terminal Project Document 		
4	Presence of Unit Trains	Medium	Presence of Potential Activity	Mobility	Information on routing for unit trains readily available	 WSDOT Department of Ecology Gateway Pacific Terminal Project Document Pacific Northwest Marine Cargo Forecast 		
5	Crossing Exposure Factor	Medium	Trains per day by average daily traffic at crossing	Safety, Mobility	 Dependent upon obtaining traffic volumes and train volume information 	• Same as criteria #2 and #3		
6	Previously Identified Project	High	Yes or no: previously identified project	Community Impacts	<i>'</i>	• JTC		
7	Traffic Impact	High (if criteria #2 is not used)	Measure of roadway classification and population/employment density	Mobility	 Data is readily available Proxy measure for lack of readily available traffic data 	US Census BureauWSDOT		

LEVEL 2 CRITERIA

ID	Data/Criterion	Possible Measurement	Objective Measured	Notes	Data Source					
Level 2 Criteria										
8	General Purpose Delay/Gate-Down Time	Total Daily Gate-Down Time; Marginal Increase in Gate-Down Time	Mobility	 Data is readily available Calculated using total number of trains, assumed average train lengths, and maximum train speed allowable May not reflect daily fluctuations 	Same as criteria #3FRABNSFUTC					
9	Freight Truck Delay	Freight Truck Percentage	Mobility	 Data available for some crossings Data would be outdated for some crossings Inconsistent freight truck percentage data 	UTCFRAWSDOT					
10	Roadway Freight Classification	Roadway Freight Classification	Mobility	Roadway Freight Classification data is readily availableReliable data set	• WSDOT					
11	Emergency Vehicle Access	Proximity to fire station, police station, or hospital; network redundancy; proximity to grade-separated crossing	Safety	 Grade-separated crossing data is readily available Roadway network data is readily available Fire station, police station, and hospital station data is readily available for some areas 	UTCWSDOT					
12	Collision History	5-year collision history; accidents per million entering vehicles; accidents per thousand entering trains	Safety	 Collision history at crossing is readily available Collision history near crossing is not readily available for all crossings Collision rates dependent on availability of traffic and train volume data 	UTCWSDOTFRA					
13	Safety Enhancement/Level of Protection	Type of Enhancement (active vs passive)	Safety	Data is readily availableReliable data set	• UTC					
14	Proximity to Ports and Intermodal Facilities	Proximity to facilities	Mobility	Data is readily availableReliable data set	Washington Ports					
15	Located on State Highway	State highway classification	Mobility	Data is readily availableReliable data set	• WSDOT					
16	Environmental Impact	Proximity to aquatic sensitive areas, shorelines, lakes, protected lands	Community Impacts, Environmental	Data is readily availableReliable data set	WSDOTESRI					
17	Social Equity Impacts	Proximity to minority populations; proximity to low-income populations	Community Impacts	Data is readily availableReliable data set	US Census Bureau					