Grade Crossing Vehicular Traffic Data

Purpose

The process of determining whether or not to install or modify a Grade Crossing Warning System is typically initiated when safety concerns are raised as a result of inspections, public complaints, or reported accidents, or when other criteria as defined by the Transport Canada warrant it.

The initial review requires that preliminary train information be provided to the Road Authority. This information should be provided by Metrolinx to the Road Authority using the form prescribed in SCP-1210-5 Grade Crossing Train Movement Data with an appended blank copy of this document.

The forms provided in this document are designed to formally record all key vehicular traffic information pertaining to the crossing.

If further investigation is warranted, the Road Authority should return a completed copy of this document to Metrolinx, who will arrange a site survey to be attended by:

- A Transport Canada Inspector, and
- A Road Authority representative, and
- Metrolinx Designate(s).

The forms provided in SCP-1210-6 Grade Crossing Inspection Data are designed to record all field information collected at the site meeting by the Metrolinx Designate.

After the site meeting, if it is agreed by all concerned parties that either a new or modified Grade Crossing Warning System may still be warranted, Metrolinx Designate will forward all information captured on forms SCP-1210-5,6,7 along with any other pertinent information, to Metrolinx for further processing.

Completed By

Enter applicable personal information.

Name:		
Address:		
Phone :	Fax:	Date :

Location Identification

Enter applicable location information.

Subdivision & Mileage:	
Spur & Mileage:	
Road/Street Name:	
Lot /Concession:	
Location (Town/City):	
Province or State:	

Road Data

If possible, provide a scaled plan to accompany the information requested in this table. Show the angle that the road crosses the track.

Description	Data
What is the designated design vehicle used for the detailed safety assessment of the crossing?	**Design Vehicle** (Choose only one) 1. Passenger Car, Vans, Pickups ❒ 2. Light Single-Unit Trucks ❒ 3. Medium Single-Unit Trucks ❒ 4. Heavy Single-Unit Trucks ❒ 5. WB-19 Tractor Semitrailers ❒ 6. WB-20 Tractor Semitrailers ❒ 7. A-Train Double (ATD) Combi ❒ 8. B-Train Double (BTD) Combi ❒ 9. Standard Single Unit Bus (B-12) ❒ 10. Articulated Bus (A-Bus) ❒ 11. Intercity Bus (I-Bus) ❒ 12. Special Design Vehicle ❒ Explain:
What is the maximum road vehicle speed over the crossing?	KPH:_____ M.P.H:_____
What type of material is used for the travel portion?	Pavement ❒ Gravel ❒ Other ❒
What construction material is used for the crossing surface?	Pavement ❒ Planking ❒ Other ❒
Are there other intersecting roads within 100 feet of the crossing surface that may require additional signs or signals? No❒ Yes❒	*For example, driveways do not include Railway maintenance roads.* Indicate distance from center line of track to center line of road intersection(s) or entranceway(s) on scaled plan.

Continued on next page

Description	Data		
Are there road traffic signs or lights in the vicinity of the crossing that affect vehicle movement over the tracks? No❒ Yes❒	Existing: Proposed: Indicate distance from center line of track to center line of road intersection(s) on scaled plan.		
What are the existing and projected vehicular traffic counts at this crossing for the various types of vehicles? NOTE: Fill in counts for all design vehicle types, not just the design vehicle used for the safety assessment.	**Design Vehicles**	**Existing**	**Projected**
	Cars, Vans, Pickups (Type 1)	_____ ❒Day ❒Year	_____ ❒Day ❒Year
	Light Trucks (Types 2-4)	_____ ❒Day ❒Year	_____ ❒Day ❒Year
	Tractor Trailers (Types 5-6)	_____ ❒Day ❒Year	_____ ❒Day ❒Year
	Combi-Vehicles (Types 7-8)	_____ ❒Day ❒Year	_____ ❒Day ❒Year
	Buses (Types 9-11)	_____ ❒Day ❒Year	_____ ❒Day ❒Year
Are there any anticipated changes to the immediate area of the crossing that may affect the design? No❒ Yes❒	Explain: (i.e. planned road widening, development that may affect sightlines or increase vehicle usage, changes in municipal or school bus usage, etc).		
Can the road surface be cut for trenching purposes? No❒ Yes❒	Explain:		

Continued on next page

How many traffic lanes are there and what are their	Direction	# of lanes	Existing Width	Proposed Width

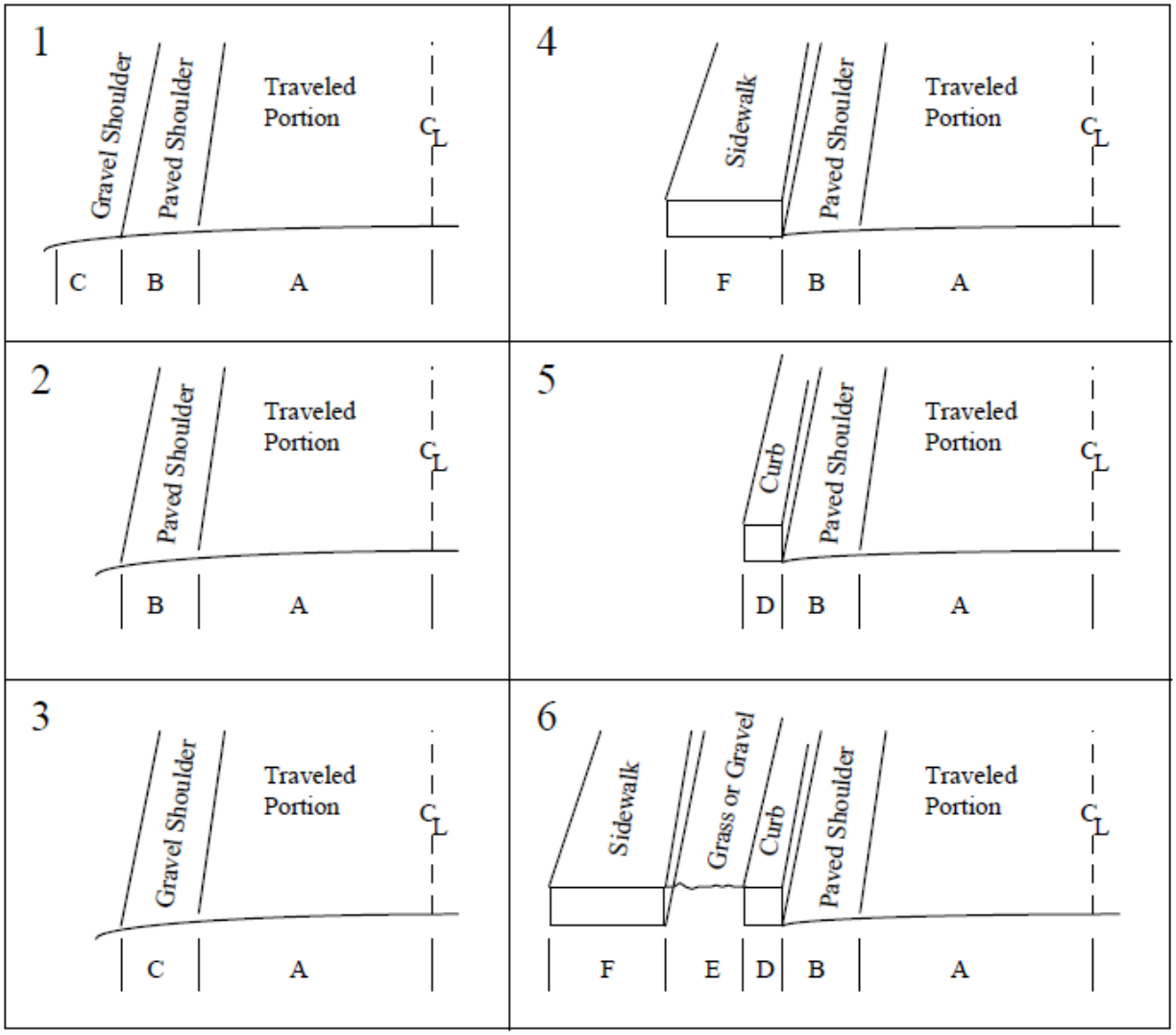
Description	Data			
widths?	Westward /Northward			
	Eastward/Southward			
Are there storm drains, sewers or culverts in the immediate vicinity of the crossing? No❒ Yes❒	Describe their location(s):			
Are there underground power utilities in the immediate vicinity of the crossing? No❒ Yes❒	Describe their location(s):			
Are there underground gas utilities in the immediate vicinity of the crossing? No❒ Yes❒	Describe their location(s):			
Are there underground or overhead telephone cables in the immediate vicinity of the crossing? No❒ Yes❒	Describe their location(s):			
Are there parking zones which may obstruct signal sightlines? No❒ Yes❒	Indicate relative location of the parking zones on scaled plan, taking into account any requirements to include barriers.			

Continued on next page

Description	Data
Are there any other obstructions which may interfere with signal sightlines? No❒ Yes❒	Indicate relative location of obstructions on scaled plan (i.e. trees, fences, etc). What steps can be taken to alleviate these obstructions?
Is the crossing located in a dimensional route, which would require additional clearances? No❒ Yes❒	Specify minimum heights, clearances, and offset distances:
Is this an arterial road? No❒ Yes❒	

Road Measurement

Using one of the common road configuration diagrams fill in the road dimension table on the next page



Using one of the common road configuration diagrams from the previous page, fill in the road dimension table.

Item	Description	Quadrant			
		NW	NE	SE	SW
A	Traveled portion (Center line to edge of traveled portion)				
B	Paved Shoulder width (if present)				
C	Gravel Shoulder width (if present)				
D	Curb width (if present)				
E	Grass or gravel area width (if present)				
F	Sidewalk width (if present)				

Center Line

Ensure the center line of the road is clearly indicated on all designs and layout plans of the crossing.

Interconnects

What type of interconnects are required at this location? Mark selection boxes with an (X).

Is there a requirement for Interconnection with Road Authority Traffic Controller System? No❒ Yes❒	**Direction of Traffic Affected:** Eastbound ❒ Westbound ❒ Northbound ❒ Southbound ❒ **Type of Interconnection:** Traffic Light Simultaneous Interconnection ❒ Advance Interconnection ❒ Time seconds: _____ *(Measured from train arrival at crossing measured to the edge of pavement, curb, or roadway)* Prepare To Stop At Railway Crossing Sign Simultaneous Interconnection ❒ Advance Interconnection ❒ Time seconds: _____ *(Measured from train arrival at crossing measured to the edge of pavement, curb, or roadway)* **Foreign Railways:** Are there any interconnects with other railways? ❒Yes ❒No

NOTES