

# BRIDGE MAINTENANCE & INSPECTION RESPONSIBILITIES

Alberta

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## Need for Inspection and Maintenance

- Safety
- Protection of investment
- Maximize functional life

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## Legislation

- Municipal Government Act
  - Definitions
    - (z) road... includes a bridge forming part of a public road
    - 16 (1) The title to all roads in a municipality, other than a city is vested in the Crown in right of Alberta

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## Municipal Government Act (Continued)

- 18 (1) ...a municipality has the direction, control and management of all roads within the municipality
- 532 (1) Every road... must be kept in a reasonable state of repair by the municipality having regard to
  - (a) character of road...
  - (b) the area it is located
- 532 (2) The municipality is liable for damage caused by... failing to perform its duty...
- 532 (4) A municipality is not liable... unless...loss or damage beyond what is suffered by... all other persons affected by the state of repair.

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## Municipal Government Act (Continued)

- 532 (6) A municipality is liable... only if "it" should have known of the state of repair
- 532 (7) A municipality is not liable... if "it" proves that it took reasonable steps to prevent the disrepair...
- 533 A municipality is not liable for damages caused if it took reasonable steps to prevent...
  - (a) by the presence, absence or type of any wall, fence, guard rail... traffic control device... adjacent... in... on a road.

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## Public Highways Development Act

- (4) All provincial highways are subject to direction, control and management of the Minister
- (8) The Minister may make regulations... for
  - (a) design and standards for construction for secondary roads
  - (b) standards for maintenance for secondary roads

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## Public Highways Development Act

- (2) ...each highway authority is responsible for costs of construction and maintenance of all highways subject to its control and management
- 19) The Minister has the direction, control and management of
  - (a) roads in improvement districts
  - (b) highways through Indian Reserves...
  - (c) highways in cities if title vested in Crown.  
(forestry roads & secondary highways by agreement...)

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## Public Highways Development Act (Continued)

- 21 (1) The Minister may enter into an agreement with any... municipality... "to" contribute to the cost of construction and maintenance of any street or road...
- 52 (1) ...the Minister may direct construction or maintenance of a bridge... or enter into an agreement... for
  - (a) paid by Crown
  - (b) Paid by municipality... or other person
  - (c) apportioned between Crown and... other
- whichever the Minister directs.

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## Traffic Safety Act

- 15 (1) ...municipality may authorize... placing of traffic control devices
- 16 (1) ...municipality may make by-laws
  - (a) ...restricting weights of vehicles...
  - (p) ...closing or restricting... highway... bridge...

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## Department Policies

- Outline methods of operation
- How legislation is implemented

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## Legal Liability

- Responsibilities defined by
  - legislation
  - policies and procedures
- Cannot guarantee accidents will not happen or damage will not occur
- Liable - exposed or open to something undesirable such as loss arising from injury or damage to another person or property

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## Due Diligence

- Not liable for damages or loss if:
  - work is in keeping with legislation, policies or procedures
  - work in keeping with accepted / prevailing standards
  - actions are "reasonable"

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### Current Maintenance Delivery Process - LRA

- LRA's complete required maintenance activities using either in-house work forces or contracted forces.
- The LRA relies heavily on the accuracy and completeness of the BIM inspection report.
- Quantities shown in the maintenance section of the BIM report form the basis of the scope of work.
- A quality BIM report is expected, and greatly assists the LRA in the delivery of their maintenance program.

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### Current Maintenance Delivery Process - AT

- AT Regional bridge offices currently utilize their respective Highway Maintenance Contractor (HMC) to complete required maintenance activities.
- Maintenance and Rehabilitation work is also delivered through the provincial tender process.
- If utilizing the HMC, a Bridge Maintenance Authorization is generated which details the scope of work and the quantities. This document also forms a part of the contractual agreement between AT and the HMC.
- In either case, contractors submit quotes based on the scope of work and quantities, among other things.

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### Current Maintenance Delivery Process - AT

- Similar to the LRA, AT bridge staff also rely heavily on the accuracy and completeness of the BIM inspection report.
- Quantities shown in the maintenance section of the BIM report form the basis of the scope of work for either the HMC BMA or provincial tender.
- A quality BIM report is expected, and greatly assists AT bridge staff in the delivery of their maintenance program.
- A second trip to the field by AT staff to gather or confirm quantities is not desirable.

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### Current Maintenance Delivery Process - AT

Government of Alberta Transportation  
 BRIDGE MAINTENANCE AUTHORIZATION  
 File No: 7475  
 Date: May 15, 2013  
 Auth No: BMA42813-036  
 District: 0  
 Program: 5000  
 Job No: 005642  
 Contract: 0710496

Highway: 2056 Legal Land Location: SW SEC 12 TWP 44 R10E 3 W10M  
 Section: Buchanan Street Nearest Town: Buffalo  
 Existing Structure: 2 Span RB (15.2m x 15.2m)

Item No.	Description	Unit	Estimated Quantity	Unit Cost		Total Cost		Actual Quantity	Actual Cost
				Est	Act	Est	Act		
1	Remove and Replace Existing Deck	L/S	1						
2	Full Depth Repair of Abutment and Pier Driveways	sq	30						
3	Full Depth Repair of Pier Slab, Deck Sill and Joints	sq	2.5						
4	Partial Depth Repair of Approach Slab	sq	30						
5	Approach Road Milling and Paving	L/S	1						
6	Blue Chip and Reserve Steel	sqm	170						
7	Clear and Seal Concrete	sq	1.5						
8	Minor Miscellaneous Repairs	L/S	1						
			Est. Qty			Est. Cost			Est. Cost

Quote Submitted By: \_\_\_\_\_ Name & Title: \_\_\_\_\_ Date: \_\_\_\_\_

Conditions: \_\_\_\_\_

Department Approvals of Quote  
 Approved By: \_\_\_\_\_ Name & Title: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved By: \_\_\_\_\_ Name & Title: \_\_\_\_\_ Date: \_\_\_\_\_

Completion Details  
 Date Issued: \_\_\_\_\_  
 Date Completed: \_\_\_\_\_  
 HMC Final Inspection by: \_\_\_\_\_ Date: \_\_\_\_\_  
 AT Final Inspection by: \_\_\_\_\_ Date: \_\_\_\_\_

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