

B.C. MINISTRY OF TRANSPORTATION

Maintenance Specification Chapter 8-830

HIGHWAY INSPECTION

1. OBJECTIVE

To develop a comprehensive knowledge of Highway conditions to support a work identification and planning program; to identify deficiencies that require maintenance; and to identify conditions, not covered by these Maintenance Specifications, that could effect the Highway.

2. GENERAL PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

All services for this Maintenance Specification are Routine.

2.2 Quantified Maintenance Services

Not applicable to this Maintenance Specification.

3. DETAILED PERFORMANCE SPECIFICATIONS

3.1 Routine Maintenance Services

The Contractor must:

- a) inspect annually all Highways and components of the Highway system within the Service Area; and document results;
- b) conduct additional inspections in response to any condition reported by the public, regulatory agencies, police authorities and the Province, that is unsafe or has the potential to become unsafe; and
- c) *report to the Province any hazardous or deficient condition that is not covered by the Maintenance Agreement or this Maintenance Specification.*

3.1.1 Performance Time Frames

The Contractor must:

- a) inspect annually all Highways and components of the Highway and reflect findings in the work identification and planning program; and
- b) respond immediately to reports by the public, regulatory agencies, police authorities and the Province, of any condition that is unsafe or has the potential to become unsafe
- c) immediately report to the Province any hazardous or deficient condition that is not covered by the Maintenance Agreement or this Maintenance Specification. .

3.2 Quantified Maintenance Services

Not applicable to this Maintenance Specification.

3.1.2 Performance Time Frames

Not applicable to this Maintenance Specification.

3.2 Materials

Not applicable to this Maintenance Specification.

4. WARRANTY

Not applicable to this Maintenance Specification.

B.C. MINISTRY OF TRANSPORTATION

Maintenance Specification Chapter 8-840

HIGHWAY PATROL

1. OBJECTIVE

To identify conditions that are unsafe or have the potential to become unsafe; to identify conditions that could threaten the infrastructure; and attend to existing or changing conditions.

2. GENERAL PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

All services for this Maintenance Specification are Routine.

2.2 Quantified Maintenance Services

Not applicable to this Maintenance Specification.

3. DETAILED PERFORMANCE SPECIFICATIONS

3.1 Routine Maintenance Services

The Contractor must:

- a) At all times other than identified in 3.1 b), c), d) and e), patrol all Highways in accordance with the frequencies established in 3.1.1 a) i) 1;
- b) during periods of high water flow, patrol all Highways in accordance with the frequencies established in 3.1.1 a) i) 2; give appropriate attention to areas known to be impacted first by high water flow;
- c) when freezing temperatures and/or snow fall are not present or forecast, patrol all Highways in accordance with the frequencies established in 3.1.1 a) ii) 1;
- d) during periods of snowfall, patrol all Highways in accordance with the frequencies established in 3.1.1 a) ii) 2;

- e) when temperatures are fluctuating between freezing and thawing, increase patrols to a frequency that will allow the Contractor to respond to changing conditions; and, give appropriate attention to areas known to be impacted first by weather events, as defined in section 3.1.1 a) of the Maintenance Specification for *Winter Abrasives and Chemical Snow and Ice Control*; and
- f) ensure patrol vehicles are prepared to deal with conditions when detected, by carrying Winter Abrasive or De-Icing Chemical. The Contractor may patrol using vehicles not equipped to apply chemical or abrasive if Highway surface conditions are bare and dry and if they can reasonably be expected to remain so. Under no circumstances will the contractor use vehicles not equipped to apply chemical or abrasive when precipitation is present, anticipated or forecast, or when freeze-thaw situations are present, anticipated or forecast, or when other Slippery conditions are present, anticipated or forecast.

3.1.1 Performance Time Frames

The Contractor must:

- a) complete patrols of Highways in accordance with the frequencies established in the tables below for each Highway Classification:
 - i) Summer Highway Classification

	1 & 2	3	4	5	6 & 7
1. at all times	24 h	2 d	7 d	14 d	21 d
2. during periods of high water flow □	2 h	4 h	8 h	16 h	32 h

Legend
 h – hours
 d – days

ii) Winter Highway Classification

	A	B	C	D	E
1. at all times	24 h	2 d	7 d	14 d	21 d
2. winter patrols (during snowfall)	4 h	8 h	16 h	24 h	36 h

Legend

h – hours

d – days

- b) report to the Province all rockfall onto the Travelled Lanes and Shoulder tops which have occurred during the previous month within 7 days of the end of each month using the Rockfall Report;
- c) take immediate and appropriate action during patrols to protect Highway Users from unsafe situations; and
- d) report to the Province immediately, upon detection or notification, any conditions which effect the Highway in performing its designed function but which are not specifically identified in these Maintenance Specifications.

3.2 Quantified Maintenance Services

Not applicable to this Maintenance Specification.

3.2.1 Performance Time Frames

Not applicable to this Maintenance Specification.

3.3 Materials

Not applicable to this Maintenance Specification.

4. WARRANTY

Not applicable to this Maintenance Specification.

B.C. MINISTRY OF TRANSPORTATION

Maintenance Specification Chapter 8-850

BRIDGE AND STRUCTURE INSPECTION

1. OBJECTIVE

To develop a comprehensive knowledge of the condition of all Bridges, other structures and associated components to support a work identification and planning program; to identify deficiencies that require maintenance; and to identify conditions, not covered by these Maintenance Specifications, that could effect the Bridges, other structures and associated components.

2. GENERAL PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

All services for this Maintenance Specification are Routine.

2.2 Quantified Maintenance Services

Not applicable to this Maintenance Specification.

3. DETAILED PERFORMANCE SPECIFICATIONS

3.1 Routine Maintenance Services

The Contractor must:

- a) inspect all Bridges, other structures and associated components within the Service Area; and document the results;
- b) conduct additional inspections of Bridges and other structures which have been effected by, but not limited to, impact from vehicles or their loads, vessels or their loads, flooding, Debris, water, high winds, vandalism, fire and/or excessive heat, earthquakes, excessive loading vibration and excessive settlement or movement of structure foundations;
- c) report to the Province any hazardous or deficient conditions that are not covered by the Maintenance Agreement or these Maintenance Specifications;

- d) monitor deficiencies and movement of structures and their components and notify the Province of any potentially hazardous or unsafe condition; and
- e) give special attention during inspections to Bridges with sub-standard load carrying capacity to ensure that existing capacities are maintained or improved; ensure load restrictions are signed on all Bridges with load restrictions.

3.1.1 Performance Time Frames

The Contractor must:

- a) inspect Bridges, other structures and associated components within the minimum frequencies established in the following table:

Structure Type	Summer Highway Classification			
	1 & 2	3	4 & 5	6 & 7
(i) Bailey and Acrow Bridges	14 d	21 d	2 m	3 m
(ii) timber Truss Bridges	21 d	1 m	1 m	1 m
(iii) log Stringer Bridges	n/a	3 m	6 m	1 y
(iv) other timber Bridges	2 m	3 m	6 m	1 y
(v) concrete and steel Bridges and other structures	4 m	6 m	1 y	1 y
(vi) Multiplate structures	6 m	1 y	1 y	1 y
(vii) Sign Bridges	1 y	1 y	1 y	1 y

Legend

d - days
m – months
y – years

- b) notwithstanding the above table, immediately, from the time the deficiency was detected by or reported to the Contractor, inspect a Bridge or structure with a safety or structural deficiency, and continue inspections at a frequency determined by the Bridge Structural Engineer;

- c) initiate, upon Commencement Date, an inspection of all Bridges, structures and associated components which is to be attended by representatives of the Province and the Contractor, on a schedule acceptable to the Province, and complete the inspection within 3 months; and
- d) operate backup power units, compressors, and other related equipment for a minimum of one hour each month, on a schedule acceptable to the Province.

3.2 Quantified Maintenance Services

Not applicable to this Maintenance Specification.

3.2.1 Performance Time Frames

Not applicable to this Maintenance Specification.

3.3 Materials

Not applicable to this Maintenance Specification.

4. WARRANTY

Not applicable to this Maintenance Specification.