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#### **Temporary Repairs**

- Intended to be in place for less than two years
- Do not affect the element rating
- May be difficult to determine if repair is temporary or permanent
- Temporary repair may also be a special feature and require a condition rating
- Examples:
  - flexbeam guardrail strapped over damaged bridgerail
  - pile bent on mudsills



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Condition Rating

#### **Permanent Repairs**

- Intended to be in place more than two years
- Consider the effect of the repair when assigning a rating
- Complete replacement of element may increase rating to 9
- Simple repair may restore element to an acceptable condition and a rating of 5
- Examples:
  - steel cap replacing timber cap
  - shotcrete repair on culvert seam
  - equivalent timber stringer inserted beside broken stringer
  - steel banding of timber piles



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Condition Rating

### **Rating actions**

- Ratings of 4 or less need an explanation of condition.
- Ratings of 3 or less need:
  - an explanation of condition
  - photographs, sketches and measurements as required
  - an accompanying recommendation for
    - maintenance
    - monitoring
    - other appropriate action.
  - Reduced inspection cycle may be warranted
- Take appropriate immediate action condition ratings of 2 or less for critical elements.
  - report to the Regional Bridge Manager including suggested action
  - report to the responsible road authority official including suggested action
  - erect warning signs
  - close bridge
  - Reduce the inspection cycle
  - Suggest follow-up with authorities if extreme hazard.



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Condition Rating

## **Rating actions**

- Recommendations for maintenance need
  - a detailed explanation of the recommendation
  - a photo showing damage to be repaired
  - Recommended repair year
  - a list of required maintenance materials showing dimensions and quantities.
    - routine or minor maintenance
    - reasonably obtainable during a Level 1 inspection

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# **Condition Rating General Rating** • Required for all inspection categories - approach road superstructure substructure channel or grade separation • Provided by the inspector after rating the individual elements in the category • Ratings are done in accordance with same numerical rating system used for condition rating of elements Used to calculate - Structural Condition Rating - Sufficiency Rating **Technical Standards Branch** Alberta.

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