

Forms Completion

Supporting Information

- Ratings of 4 or less must have an explanation of condition
- Ratings of 3 or less must have 3 things;
- 1. Supporting comment
- 2. Supporting photograph
- 3. Recommendation for action
- Action may be in the form of:
 - Maintenance recommendations
 - Monitoring on regular inspection cycle
 - Monitoring on a shorter inspection cycle if warranted
 - Don't overuse monitoring
- Photographs, quantities, measurements and/or sketches are provided for ratings of 3 or less or any maintenance recommendation regardless of rating



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Forms Completion

BIM Y/N Inventory Questions

- Explanation of condition is required when answering YES for certain areas
- Exceptions for Class B inspector are
 - approach guardrail meeting standards
 - Longitudinal seams proper lap
 - Longitudinal seams staggered
- if NO, provide comments explaining why



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Forms Completion

Significant Changes From Previous Rating

- Ratings of most elements do not change significantly over an inspection cycle
- Provide an explanation of condition if rating has changed significantly
- Required even if rating is 5 or more
- For example:
 - treated timber piles rated 8 and 21 months later piles rated 5 - why the big change?



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Forms Completion

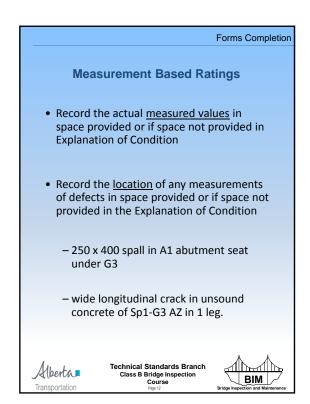
Significant Changes From Previous Rating

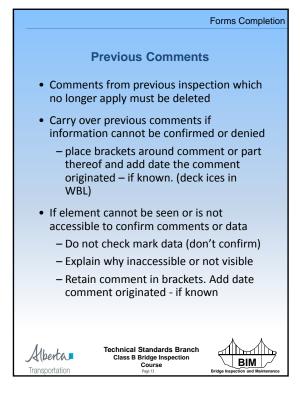
- Some elements are expected to change significantly over an inspection cycle
- For example:
 - Timber strip deck rated 8 and 57 months later, rating reduced to 4
 - Scour protection rated 7 and after flood reduced to 3

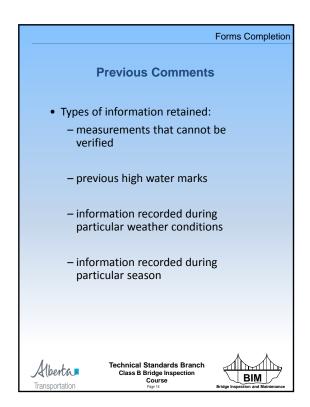


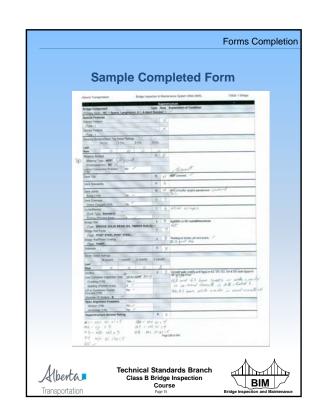
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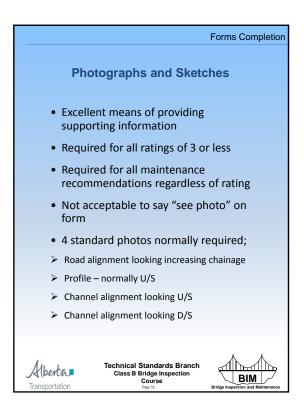


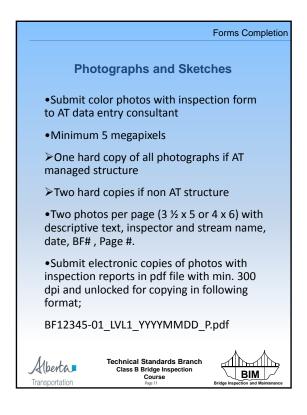


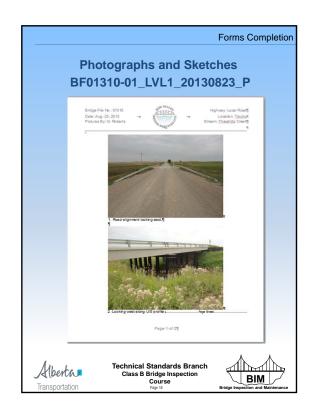


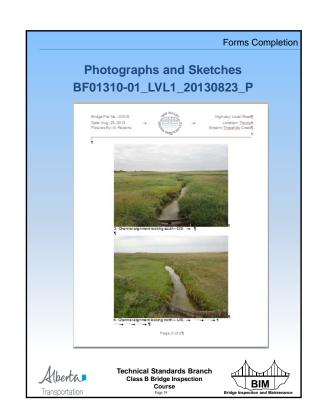












Forms Completion

Estimating Quantities

- Inspectors are to estimate quantities for recommended repairs and maintenance
- Record in Maintenance Inspector Comments (expandable). Use separate sheet only if necessary
- Place in pre-prepared maintenance areas whenever possible
- Examples:
- PLACE ADDITIONAL RIPRAP 3m3 Class 1 rock at D/S end
- PATCH DECK 5 timber stripdeck planks, each 75x300x 3 m long



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Forms Completion

Inspection Checks

- Inspector should do the following checks before leaving the site:
 - all ratings have been entered
 - » element condition ratings entered
 - » General Rating entered
 - » Estimated Replacement Year
 - condition ratings consistent with BIM manual
 - ratings are supported by
 - » explanations of condition (ratings of 4 or less)
 - » photos (and sketches if necessary) (3 or less)
 - » recommendations for maintenance, monitoring. other appropriate action (3 or less)
 - inventory information verified or changed
 - maintenance recommendations are appropriate
 - maintenance recommendations are supported with material dimensions and quantities.



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ВІМ

Forms Completion

Inspection Checks

- Office follow-up:
 - Low rating advisories or 2 Notifications sent to Bridge Manager (and LRA if applicable)
 - Answer questions raised during the inspection
 - Review previous inspection history in BIS
 - Review standard or site specific drawings
 - Review for appropriate maintenance, monitoring and timing
 - load restrictions and other signing
 - notify road authority
 - prepare photos in standard format with descriptive comments
 - Prepare electronic photos



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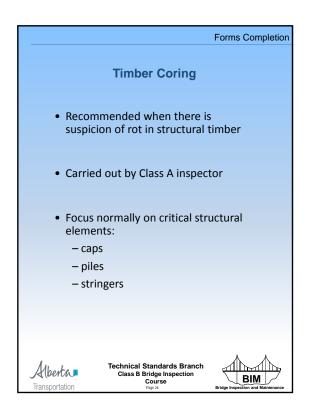


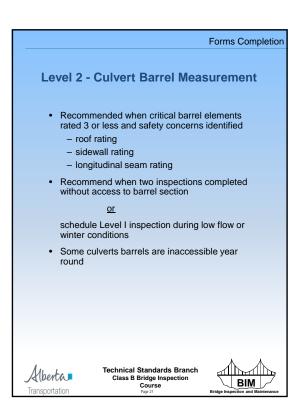
Forms Completion **Bridge Maintenance** Recommendations Aples 3 (Scotton polis Pares 15 42 22 Apr AT 72 · Place recommendations in pre-prepared areas. Use "Other Action" only if maintenance item is not available on "pick list" (refer to Supplemental Binder) Record "Recommended Year" based on priority levels associated with ratings Provide material sizes and quantities in "Inspector Comments" area Technical Standards Branch Class B Bridge Inspection Course Alberta∎

Transportation









Forms Completion **Estimated Replacement Year** Standard Bridges (Table 11.1) LIFE EXPECTANCY **TYPE** IOW AVE HIGH **Untreated Timber** 10 15 20 35 45 Treated Timber 55 Prestressed - Composite 60 70* Prestressed ** 60* 40 45 Precast (Except PA & PX)** 50 Precast (PA) & Other (PX) 25 30 45 *Use maximum of 50 years for timber substructure **Add 5 years if overlaid with concrete Considerations: • Traffic - volume, amount of truck traffic, log haul • Salt usage - road surfacing, traffic, climatic conditions • Deck drainage, leakage · Decay favourable conditions Technical Standards Branch Alberta Class B Bridge Inspection Course ✓ BIM | Transportation

