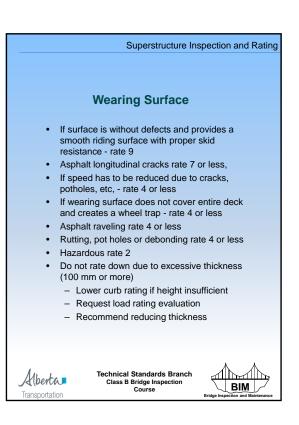
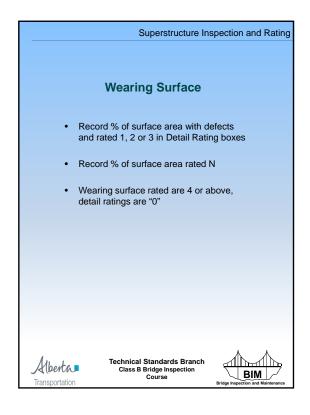
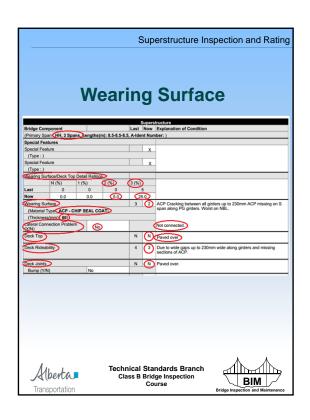
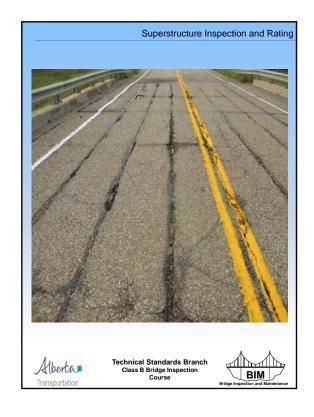


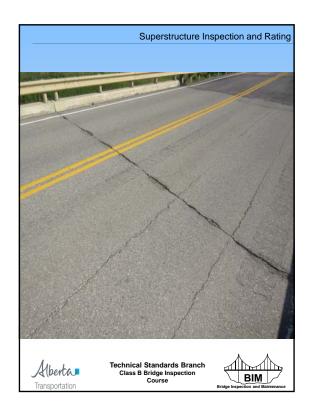
Superstructure Inspection and Rating **Wearing Surface** · Drive over the deck at fastest safe speed Observe traffic to assist in rating Look for material defects For asphalt pavement wearing surfaces look for: cracks (alligator, lane joint, shrinkage and slippage) distortion (ruts, depressions and corrugations) - disintegration (potholes and ravelling) - segregation Check for delaminations in concrete and asphalt wearing surfaces and record amount in percentage of deck area Technical Standards Branch Class B Bridge Inspection Course Alberta. BIM Transportation

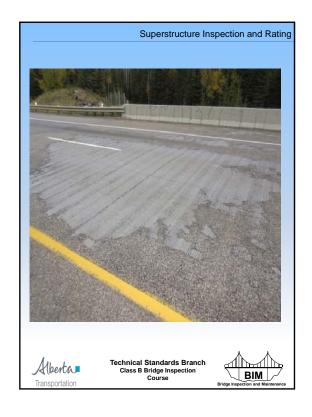


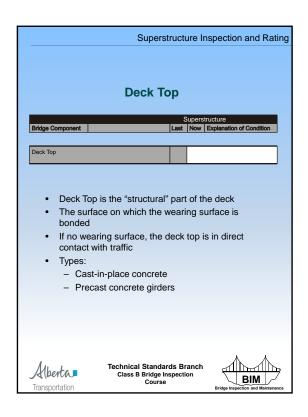


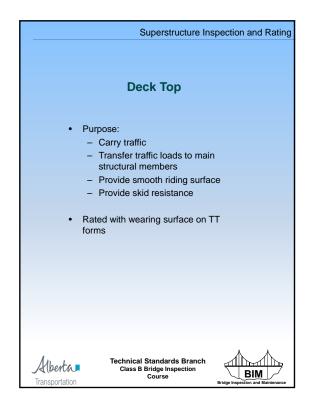


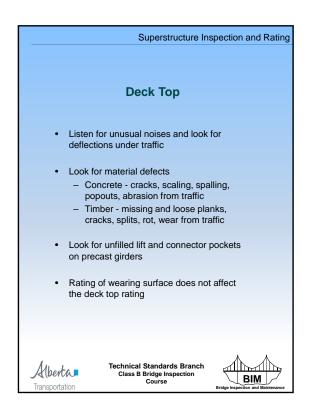


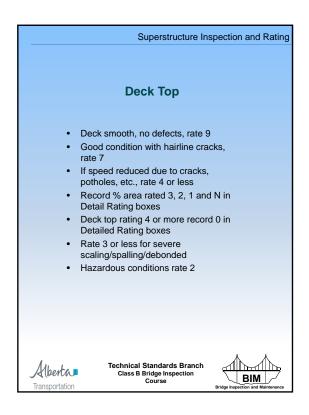


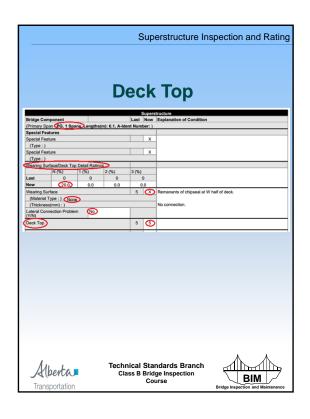


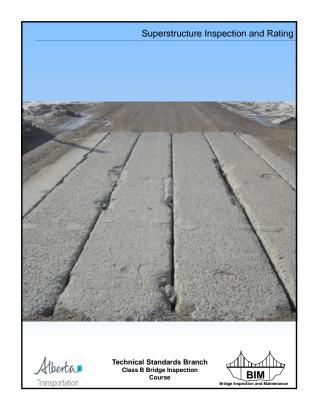


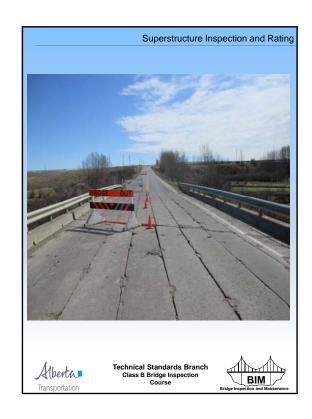


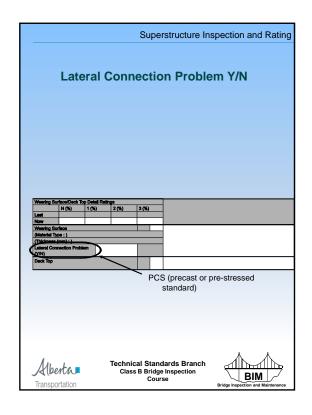


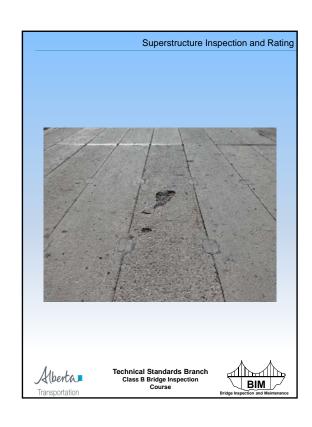


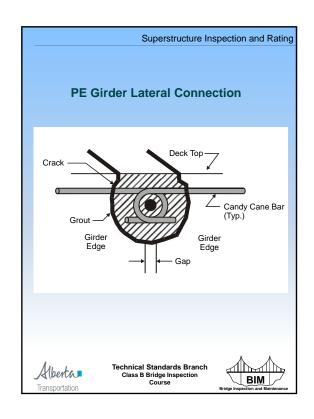




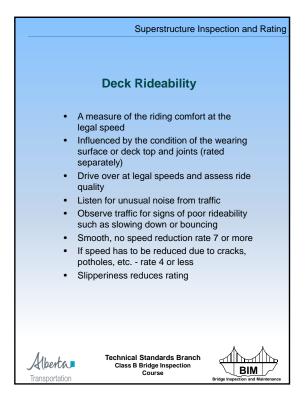


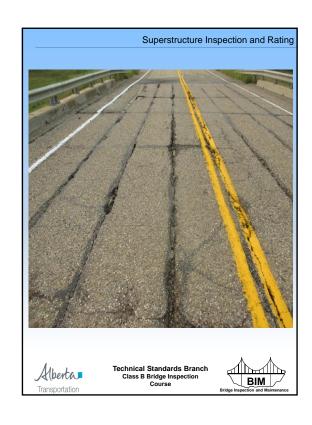


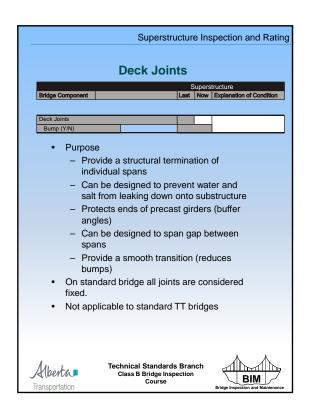


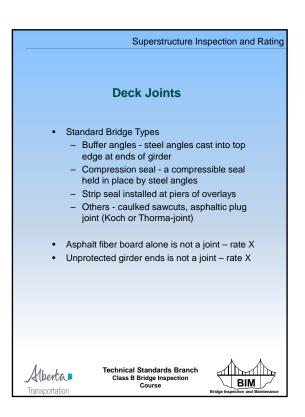


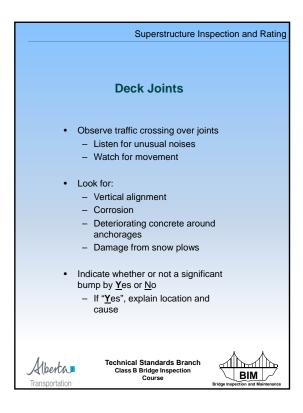


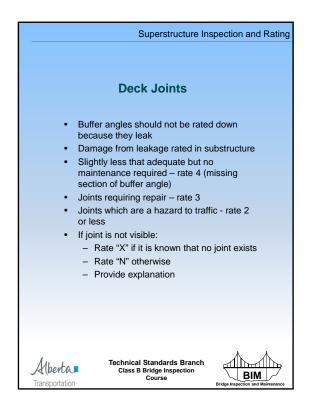


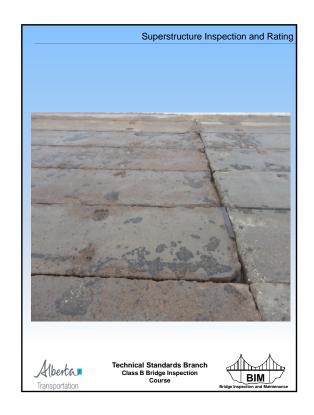


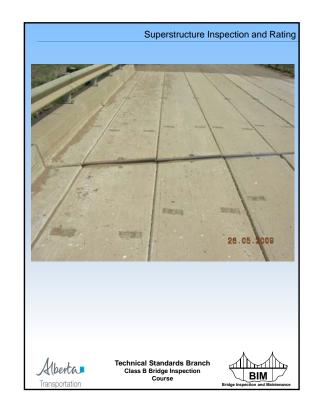


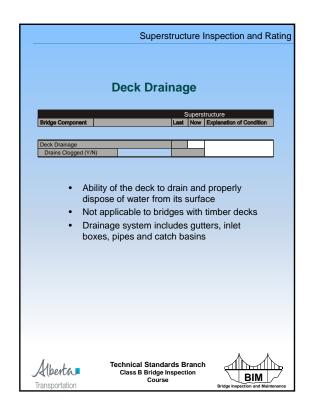


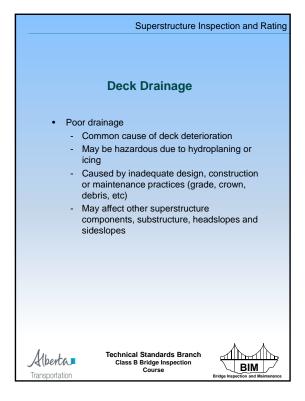


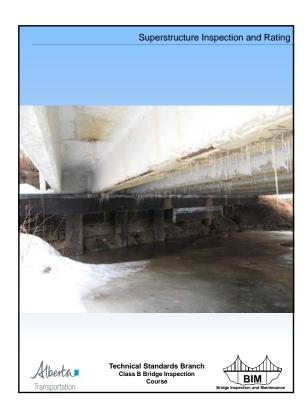


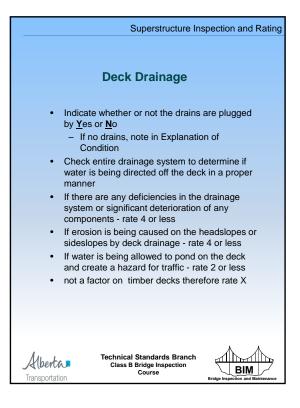


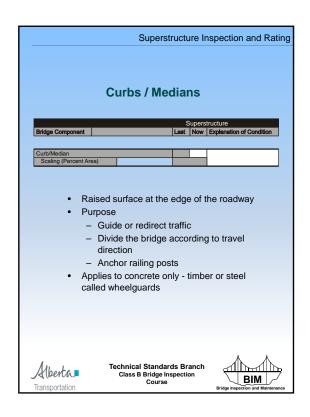


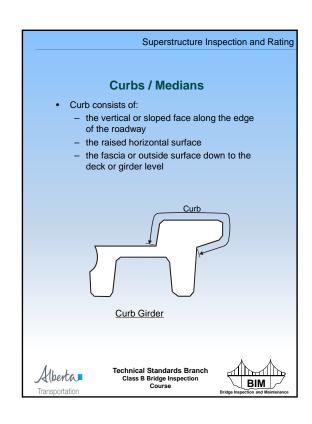


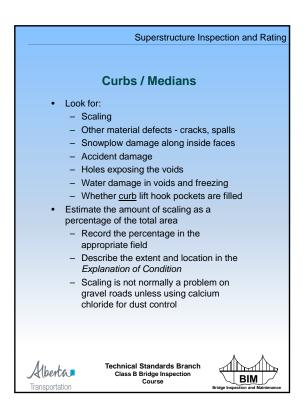


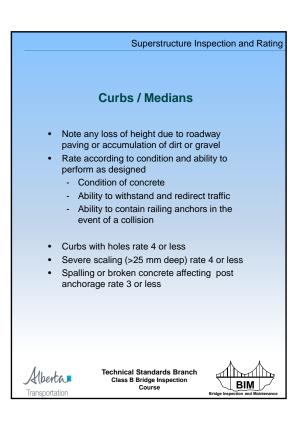


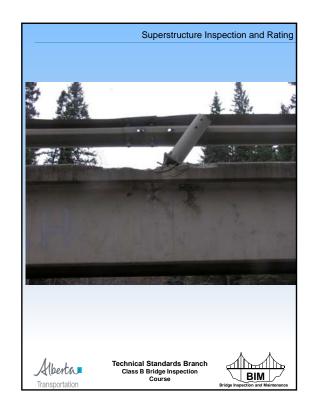


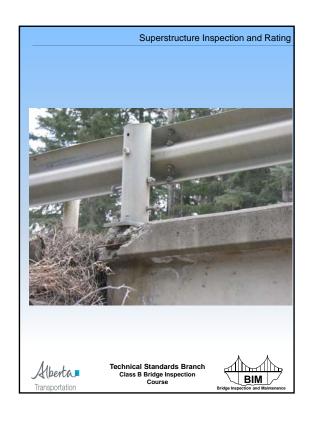


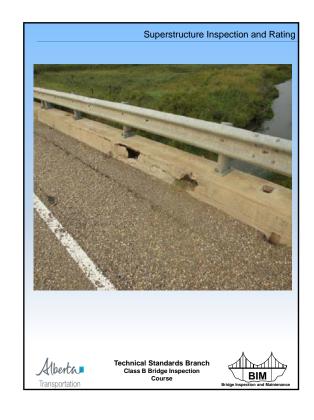


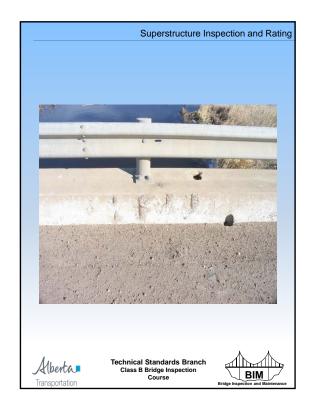


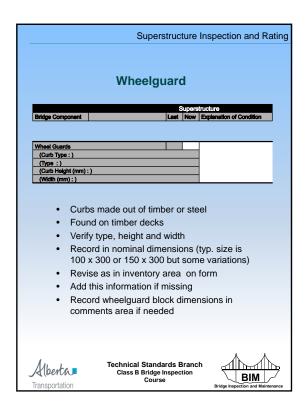


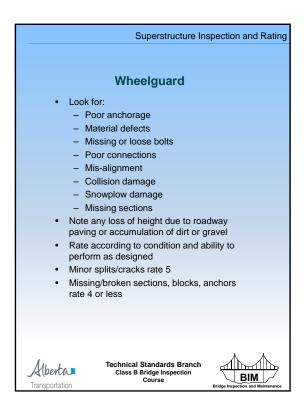


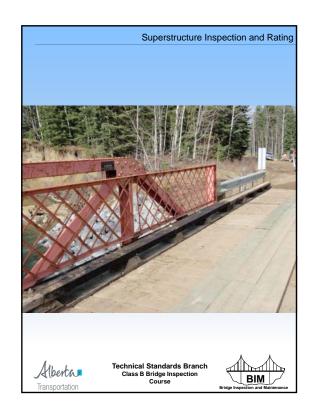


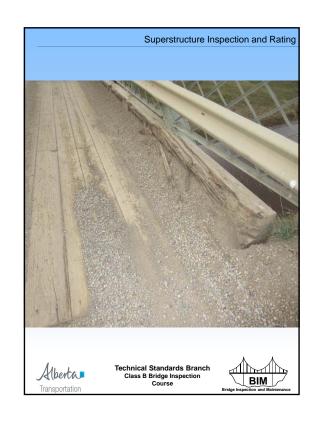


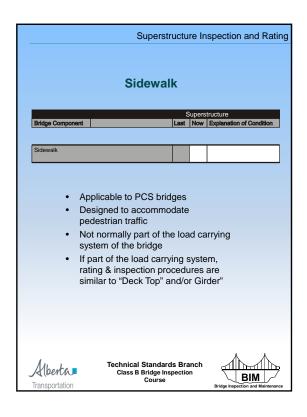


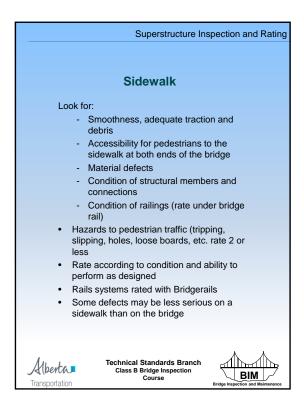


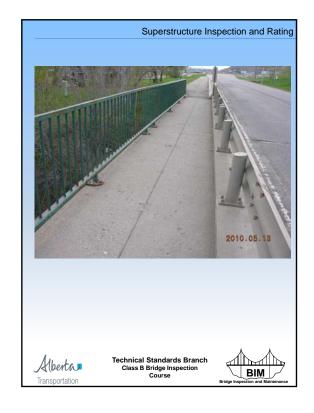


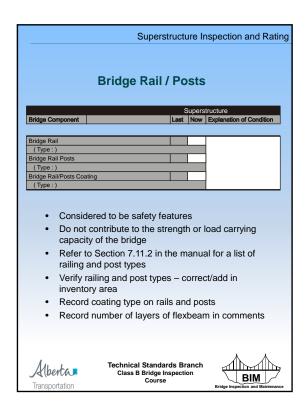












Superstructure Inspection and Rating **Bridge Rail / Posts** · Look for: - Material defects - Collision damage - Horizontal and vertical misalignment Loose connections - Missing nuts or bolts - Inadequate thread engaged on post anchor nuts - Broken or spalled post anchors - Correct lap direction of flexbeam · lapped in direction of traffic Includes pedestrian rails found on sidewalks Technical Standards Branch Alberta Class B Bridge Inspection Course BIM

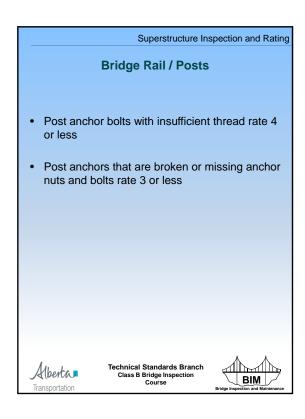
Superstructure Inspection and Rating **Bridge Rail / Posts** · Rate according to condition and not the standard of the rail, posts or coating - timber rail is substandard but can be rated 9 if in new condition timber posts with wrong orientation Rating for rail and posts does not include the condition of the coating - rated separately unless severe corrosion If coating on rail and posts is different then record and rate rail coating. Note post coating type and condition in Comment area Railing with minor collision damage but still functional and has good connections rate 5 Timber with signs of rot rate 4 or less Rail connections with missing bolts, improper laps nuts rate 4 or less Railing with missing sections - rate 2 or less

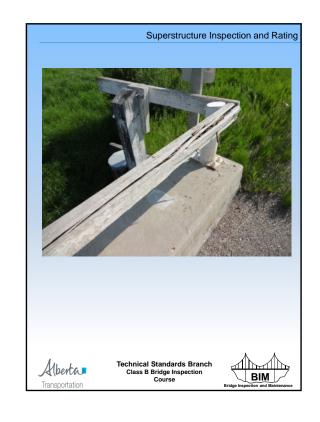
Technical Standards Branch

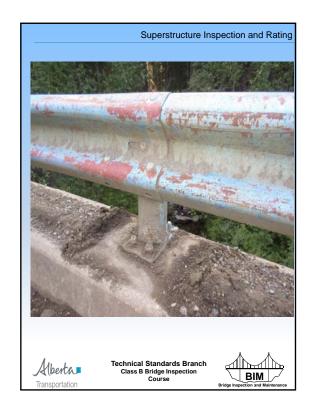
Class B Bridge Inspection Course

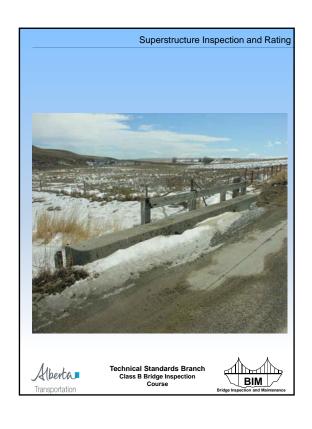
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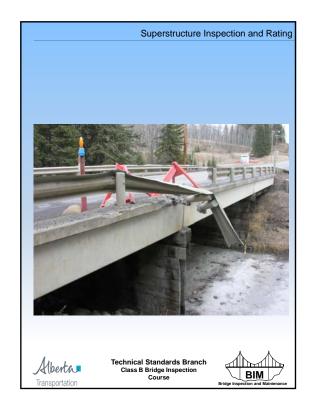
Alberta

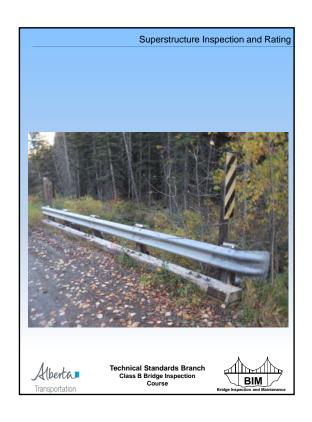


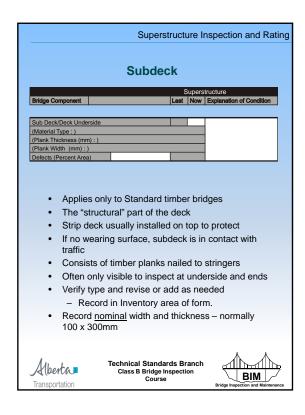


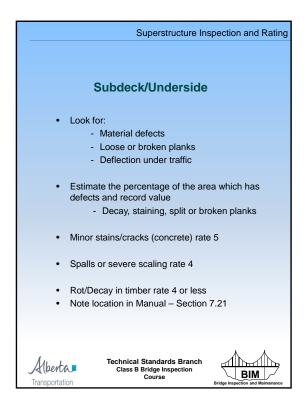


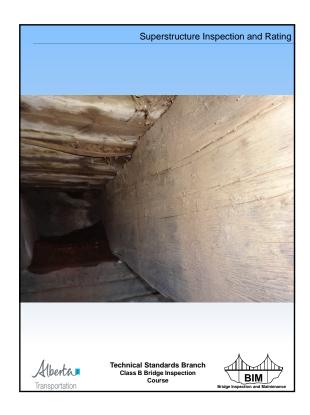


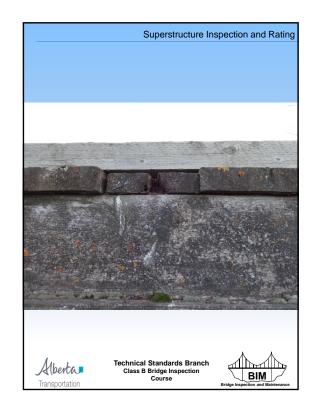




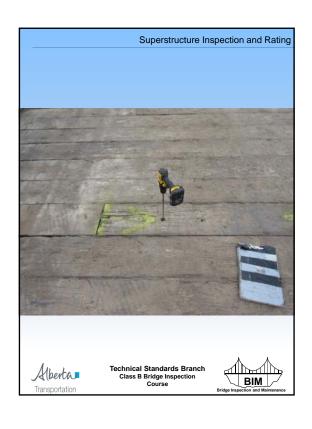


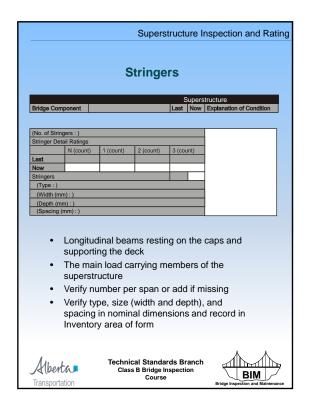


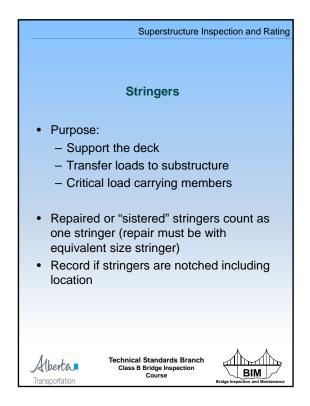


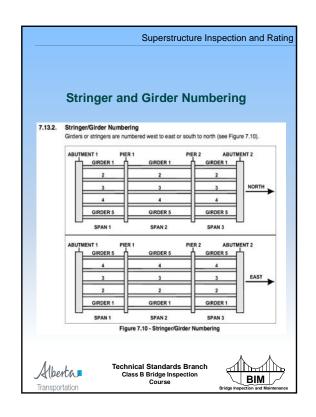


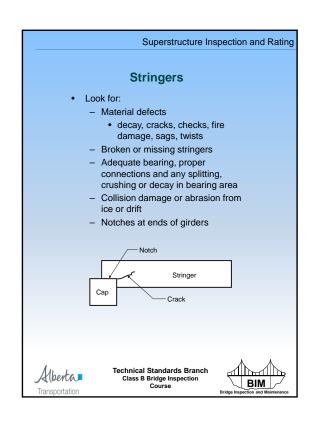


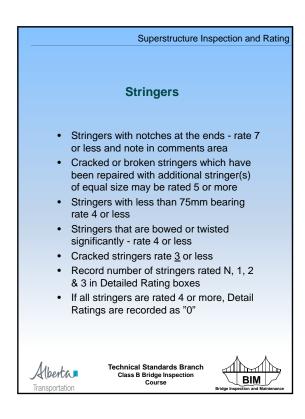


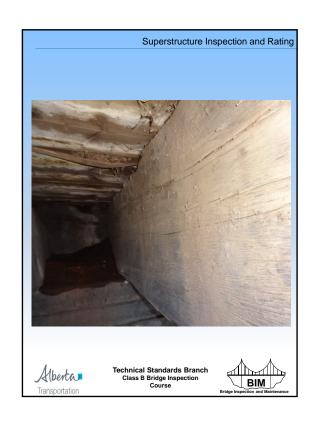




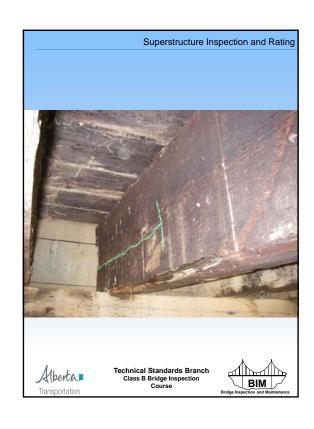


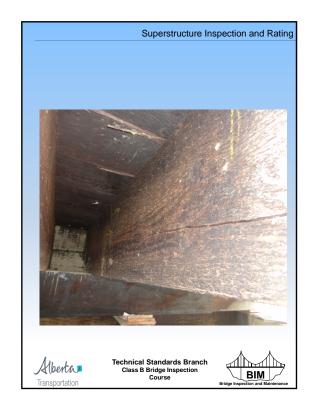


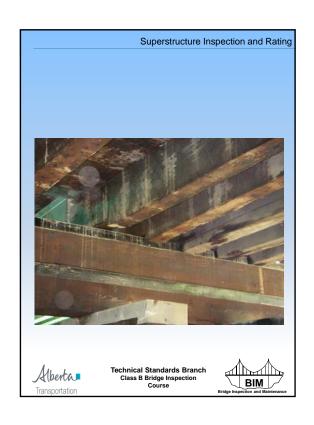


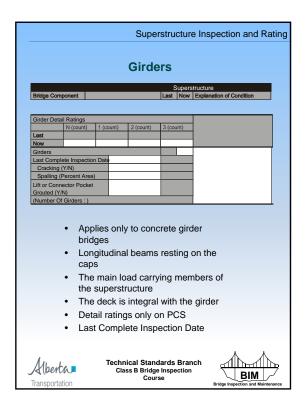


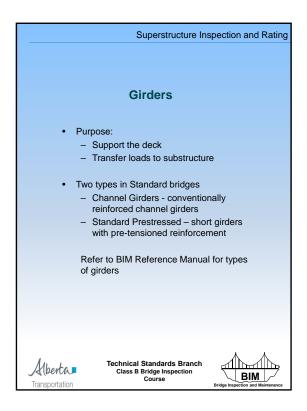


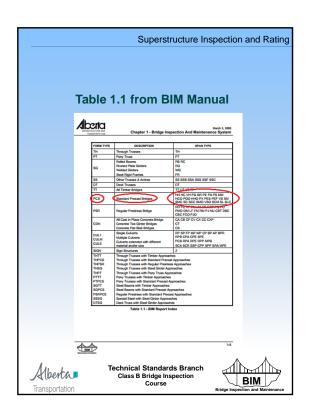


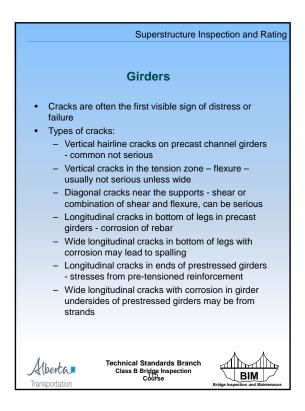




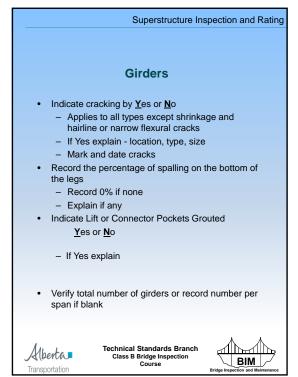




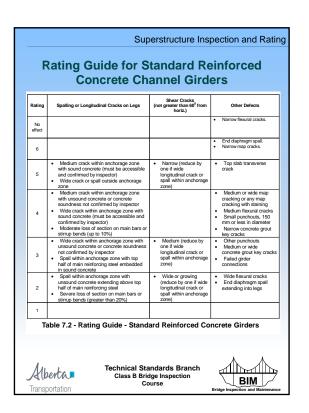


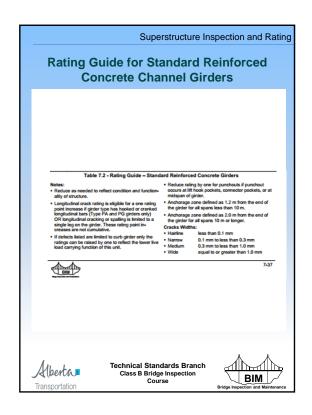


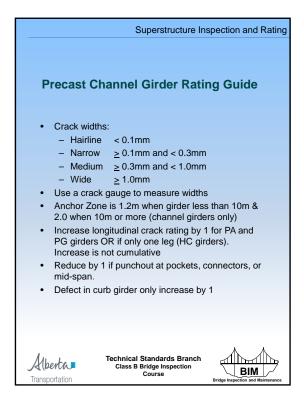
Superstructure Inspection and Rating **Girders** Look for: - Cracks - Spalling on bottom of legs - Other defects - scaling, staining, etc. - Damaged connectors - deteriorating grout, loose or broken bolts, corrosion on bolts or connector channels - Spalls at dowel locations Collision damage or abrasion from ice or drift Punchouts in deck Look for excessive vibrations or deflections under traffic Observe whether girders with lateral connections deflect independently Technical Standards Branch Alberta Class B Bridge Inspection Course ✓ BIM |

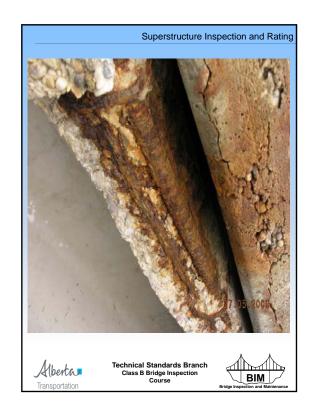


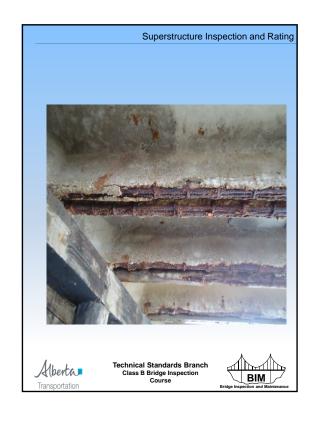
Superstructure Inspection and Rating **Girder Rating Guide** Rating guidelines are provided in Table 7.2 for standard reinforced channel girder Provided in Tables 7.3, 7.4 and 7.7 for prestressed girders Ratings given are maximums - Decrease as needed Reflect condition and functionality If curb girder only affected, can increase ratings by one Provide girder count for N, 1, 2 & 3 ratinas If girder ratings are 4 or above detail ratings are "0" Technical Standards Branch Class B Bridge Inspection Course Alberta. BIM Transportation



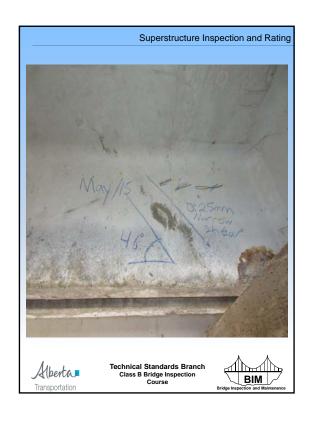


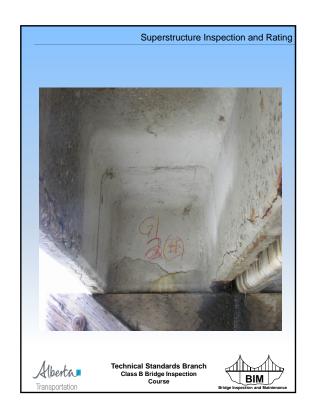




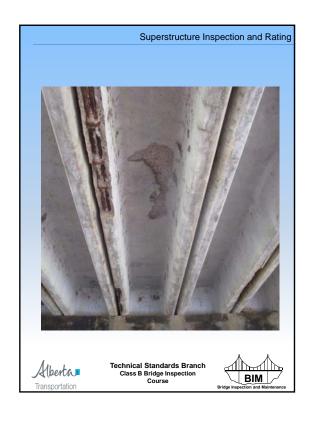


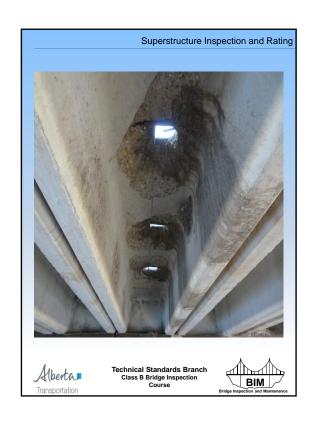




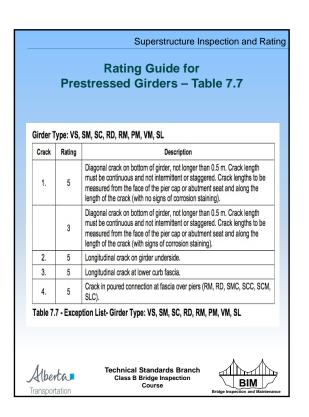


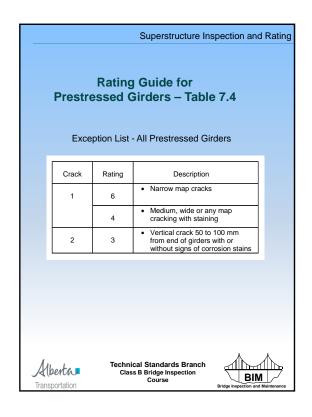


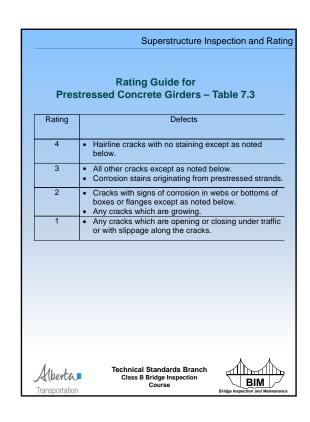


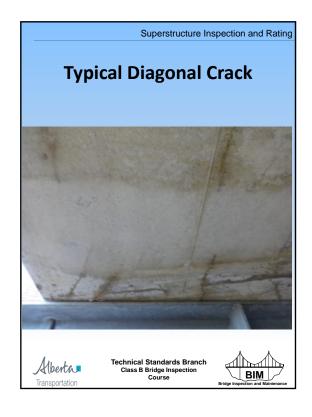


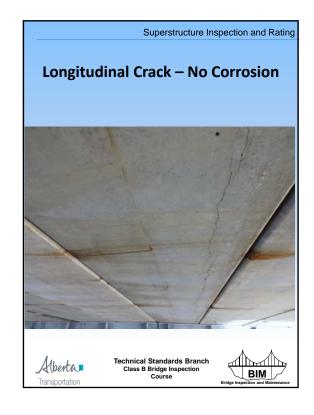
Superstructure Inspection and Rating **Rating Pre-stressed Girders** • Refer to Sections 7.14 to 7.15.2.7 for general information. Refer to Section 7.15.4 for specific information. Suggest using "3-strike" rule when determining ratings for pre-stressed girders. 1. Start with Table 7.7 - Exception List for common std. girder types (VS, SM, SC, SL). Note that crack width must be narrow reduce by 1 if corrosion staining is present. > If defect in field matches description in Table 7.7 then rate accordingly. 2. Refer to Table 7.4 - Exception List for ALL Pre-stressed Girders. > If defect in field matches description in Table 7.4 then rate accordingly. 3. Refer to Table 7.3-strike 3 - rate accordingly Technical Standards Branch Class B Bridge Inspection Course Alberta. BIM

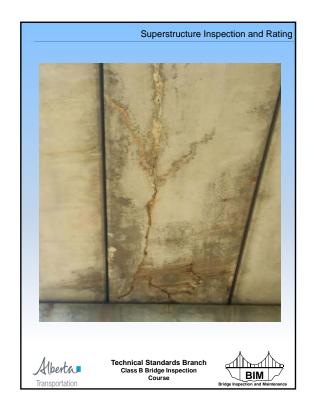


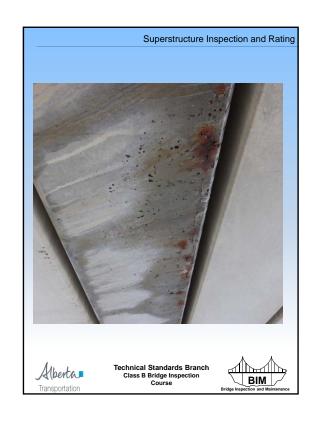




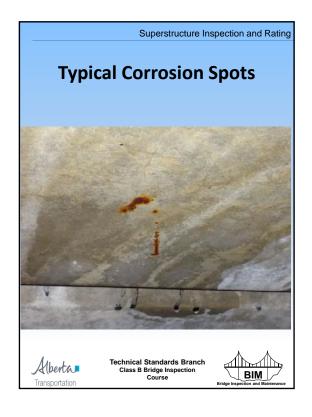


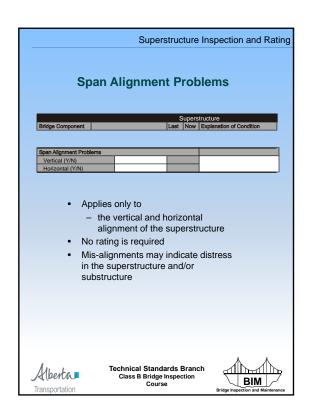


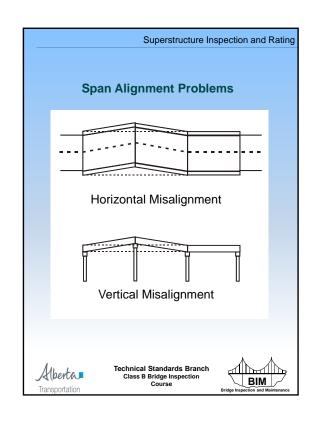












Span Alignment Problems

- Look along edges of girders, curbs, railing for signs of sags, bows, movement, buckling, twisting, etc.
- Look for vertical mis-alignment and uneven gaps at deck joints
- Indicate whether there is a vertical and horizontal alignment problem by Yes or No
- Provide an explanation of the location, type, possible cause and seriousness

