

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|---|------------|---|--|-------------------------|--|-----------------|-------------------------|--|-------------------------------------------------------------------------------------|
| Bridge No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CK-2196                                                                          | Road Name         | Nahatlatch FSR |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  | Inspection Date | 2014-08-12              |  |                                                                                     |
| STA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Forest District                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  | Access Notes            |  |                 |                         |  |  |
| 4.6 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chilliwack Natural Resource District                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Bridge Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Stream Crossing                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  | Inspected By            |  |                 |                         |  |                                                                                     |
| 71.3 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nahatlatch River                                                                 |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  | M. Hanson / D. Harrison |  |                 |                         |  |                                                                                     |
| UTM Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Easting                                                                          |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  | Northing                |  |                 |                         |  |                                                                                     |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 605917                                                                           |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  | 5537381                 |  |                 |                         |  |                                                                                     |
| No. Spans                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                  | Installation Date |                |                                                                                                                                                                                                      | Current Load Rating |      |   | Deck Width |   |  | Project No.             |  |                 | Anticipated Replacement |  |                                                                                     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                  | 1987              |                |                                                                                                                                                                                                      | 68 Tonnes           |      |   | 4300 mm    |   |  | 2014 2725               |  |                 | 2047                    |  |                                                                                     |
| Span / Length (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                                                                | 15.2              | 2              | 40.0                                                                                                                                                                                                 | 3                   | 16.1 | 4 |            | 5 |  | 6                       |  | 7               |                         |  |                                                                                     |
| Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Three span steel girder bridge with precast concrete deck. (Ray Washtock Bridge) |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| <p>Excellent: New or almost new condition and properly installed</p> <p>Good: Structurally sound, in good repair and have minimal wear</p> <p>Fair: Structurally sound, but show moderate wear or preliminary indications of rot or corrosion</p> <p>Poor: Structurally unsound, major items in need of repair or replacement, or bridge load rating should be reduced</p> <p><b>Abutment, spans, piers numbered from left bank, facing downstream / girders numbered from upstream to downstream.</b></p> |                                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| <b>Approaches</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Approach Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fair                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Alignment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fair                                                                             |                   |                | Moderate corner at left approach.                                                                                                                                                                    |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Visibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Good                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Signage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Good                                                                             |                   |                | Bridge ahead signs present at both approaches.<br>Signage brushed in at left approach.                                                                                                               |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Delineators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Good                                                                             |                   |                | Delineators present at all four corners.                                                                                                                                                             |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Fenders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Good                                                                             |                   |                | Fenders not aligned on right approach.                                                                                                                                                               |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Overall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fair                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| <b>Deck - Spans 1-3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Running Surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fair                                                                             |                   |                | Minor surface wear on wheel tracks.<br>Debris accumulation on deck.                                                                                                                                  |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Deck Joints                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Poor                                                                             |                   |                | No compression seals at Pier 1 and 2 expansion joints, deck dropping through gaps onto bearings.<br>Degradation of grouted joints to depth of 50 mm.<br>Minor cracks throughout grouted deck joints. |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Grout Pockets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Fair                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Curb Rails and Risers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Fair                                                                             |                   |                | All timber curbs and risers sounded and some cored. Initial signs of decay noted in risers.                                                                                                          |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Good                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Overall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fair                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| <b>Superstructure - Span 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                  |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Girders                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fair                                                                             |                   |                | Moderate corrosion noted along bottom flange.                                                                                                                                                        |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Bracing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fair                                                                             |                   |                | Moderate corrosion on bracing steel towards abutment.                                                                                                                                                |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Diaphragms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Fair                                                                             |                   |                | Moderate corrosion on diaphragm steel towards abutment.                                                                                                                                              |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fair                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |
| Overall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Fair                                                                             |                   |                |                                                                                                                                                                                                      |                     |      |   |            |   |  |                         |  |                 |                         |  |                                                                                     |

| Bridge No.              | CK-2196 | Road Name                                                                                                                                                                                                                                 | Nahatlatch FSR | Inspection Date | 2014-08-12 |
|-------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|------------|
| Superstructure - Span 2 |         |                                                                                                                                                                                                                                           |                |                 |            |
| Girders                 | Fair    | Minor corrosion and debris accumulation along bottom flange.                                                                                                                                                                              |                |                 |            |
| Bracing                 | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Diaphragms              | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Hardware                | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Overall                 | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Superstructure - Span 3 |         |                                                                                                                                                                                                                                           |                |                 |            |
| Girders                 | Fair    | Girder ends painted at piers; paint coating failed with surface corrosion noted.                                                                                                                                                          |                |                 |            |
| Bracing                 | Fair    | Painted steel bracing. Paint coating is flaking with surface corrosion noted.                                                                                                                                                             |                |                 |            |
| Diaphragms              | Fair    | Painted steel diaphragms. Paint coating is flaking with surface corrosion noted.                                                                                                                                                          |                |                 |            |
| Hardware                | Fair    | Minor corrosion on hardware (Bolted bracing and diaphragm connections)                                                                                                                                                                    |                |                 |            |
| Overall                 | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Abutment - Left         |         |                                                                                                                                                                                                                                           |                |                 |            |
| Bearings                | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Ballast Wall            | Fair    | Treated timber ballast wall sounded; no decay noted.                                                                                                                                                                                      |                |                 |            |
| Fill                    | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Hardware                | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Piles and Posts         | Unrated | No record drawings, footings may be cast on bedrock.                                                                                                                                                                                      |                |                 |            |
| Wingwall                | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Overall                 | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Abutment - Right        |         |                                                                                                                                                                                                                                           |                |                 |            |
| Bearings                | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Ballast Wall            | Fair    | Treated timber ballast wall sounded; no decay noted.                                                                                                                                                                                      |                |                 |            |
| Fill                    | Fair    | Loss of support fill below upstream footing extending 0.5 m under footing.                                                                                                                                                                |                |                 |            |
| Hardware                | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Piles and Posts         | Unrated | No record drawings, footings may be cast on bedrock.                                                                                                                                                                                      |                |                 |            |
| Wingwall                | Poor    | Lower upstream wingwall (retaining wall) is heavily decayed. 3 of 4 timber tiebacks have failed causing wall to lean outwards (max 10°). See attached sketch for details.<br><br>Upper cast-in-place concrete wingwall in good condition. |                |                 |            |
| Overall                 | Poor    |                                                                                                                                                                                                                                           |                |                 |            |
| Pier - 1                |         |                                                                                                                                                                                                                                           |                |                 |            |
| Bearings                | Poor    | Bearings replaced with stainless steel plates encased with grease.<br><br>Rubber strip seal surrounding bearings have slipped out at all four bearings, allowing the grease to leak out.                                                  |                |                 |            |
| Bracing or Sheathing    | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Caps                    | Fair    |                                                                                                                                                                                                                                           |                |                 |            |
| Hardware                | Poor    | 3 of 4 anchor bolts for span 1 connection have failed (shear failure) likely due to thermal expansion.<br><br>Span 2 anchor bolts in fair condition.                                                                                      |                |                 |            |
| Piles/Posts             | Fair    | Pier cast on top of rock cliff - did not evaluate stability of rock supporting pier, however did not observe signs of instability.                                                                                                        |                |                 |            |
| Overall                 | Poor    |                                                                                                                                                                                                                                           |                |                 |            |

|                                      |         |           |                                                                                                                                    |                 |            |
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| <b>Pier - 2</b>                      |         |           |                                                                                                                                    |                 |            |
| Bearings                             |         | Fair      |                                                                                                                                    |                 |            |
| Bracing or Sheathing                 |         | Fair      |                                                                                                                                    |                 |            |
| Caps                                 |         | Fair      |                                                                                                                                    |                 |            |
| Hardware                             |         | Fair      |                                                                                                                                    |                 |            |
| Piles/Posts                          |         | Good      | Pier cast on top of rock cliff - did not evaluate stability of rock supporting pier, however did not observe signs of instability. |                 |            |
| Overall                              |         | Fair      |                                                                                                                                    |                 |            |
| <b>Hazards</b>                       |         |           |                                                                                                                                    |                 |            |
| High Water                           |         | NO        |                                                                                                                                    |                 |            |
| Scour                                |         | NO        |                                                                                                                                    |                 |            |
| Ice                                  |         | NO        |                                                                                                                                    |                 |            |
| Debris                               |         | NO        |                                                                                                                                    |                 |            |
| Aggradation                          |         | NO        |                                                                                                                                    |                 |            |
| <b>Channel</b>                       |         |           |                                                                                                                                    |                 |            |
| Estimated Present Water Level Depth  |         | 3 m       |                                                                                                                                    |                 |            |
| Estimated Present Water Level Width  |         | 10 m      |                                                                                                                                    |                 |            |
| Estimated High Water Level Clearance |         | 10 m      |                                                                                                                                    |                 |            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |                 |                      |                                                                              |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------|----------------------|------------------------------------------------------------------------------|------------|
| Bridge No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CK-2196                                                                                  | Road Name       | Nahatlatch FSR       | Inspection Date                                                              | 2014-08-12 |
| <b>Repair Description and Cost Estimate</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                          |                 |                      |                                                                              |            |
| <b>No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Description</b>                                                                       | <b>Priority</b> | <b>Cost Estimate</b> |                                                                              |            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Repair bearings at Pier 1.                                                               | High            | \$5,000.00           |                                                                              |            |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Repair 3 failed anchor bolts at Pier 1.                                                  | High            | \$5,000.00           |                                                                              |            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Replace lower retaining wall at right end abutment.                                      | High            | \$50,000.00          |                                                                              |            |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Remove trees at abutments to permit close proximity inspection of approach span girders. | Low             | \$1,000.00           |                                                                              |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |                 | <b>\$61,000.00</b>   |                                                                              |            |
| <p>High: Immediate, non-recurring repair to assure public safety</p> <p>Medium: Ongoing, regular maintenance items to protect capital investment</p> <p>Low: Minor maintenance items or improvements to extend service life</p> <p>The cost estimate for individual maintenance items reflects the cost of materials and labour for completing a task; it does not include any costs associated with mobilization, demobilization, delivery of materials, engineering or contract administration.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |                 |                      |                                                                              |            |
| <b>Monitoring Items</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                          |                 |                      |                                                                              |            |
| <b>No.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Description</b>                                                                       |                 |                      |                                                                              |            |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor condition of grouted deck joints.                                                |                 |                      |                                                                              |            |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor corrosion of steel.                                                              |                 |                      |                                                                              |            |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor condition of timber curbs and risers. Plan to replace in 5 years.                |                 |                      |                                                                              |            |
| <b>Comments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                          |                 |                      | <b>Seal</b>                                                                  |            |
| <p>The bridge is generally in fair condition. Notwithstanding, the Ministry should repair the failed bearings and anchor bolts at Pier 1. In addition, we also observed deterioration of the grouted joints in the deck panels and corrosion of the girders that should be monitored during future routine inspections</p> <p>The Ministry should monitor the lower retaining wall at the right end abutment for movement, and consider replacing within 1 year.</p> <p>Our inspection did not include an assessment of the competency of the bedrock supporting the bridge substructure. While there were no indications of instability, as part of routine risk management, the Ministry's may consider retaining a geotechnical engineer to assess the condition/stability of the supporting bedrock.</p> <p>The theoretical remaining service life of the bridge is 33 years. The anticipated replacement based on current condition is &gt; 10 years.</p> |                                                                                          |                 |                      | <p><b>ORIGINAL SIGNED AND SEALED BY</b><br/><b>DALE HARRISON, P.Eng.</b></p> |            |

|            |         |           |                |                 |            |
|------------|---------|-----------|----------------|-----------------|------------|
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Figure 2: Downstream elevation.

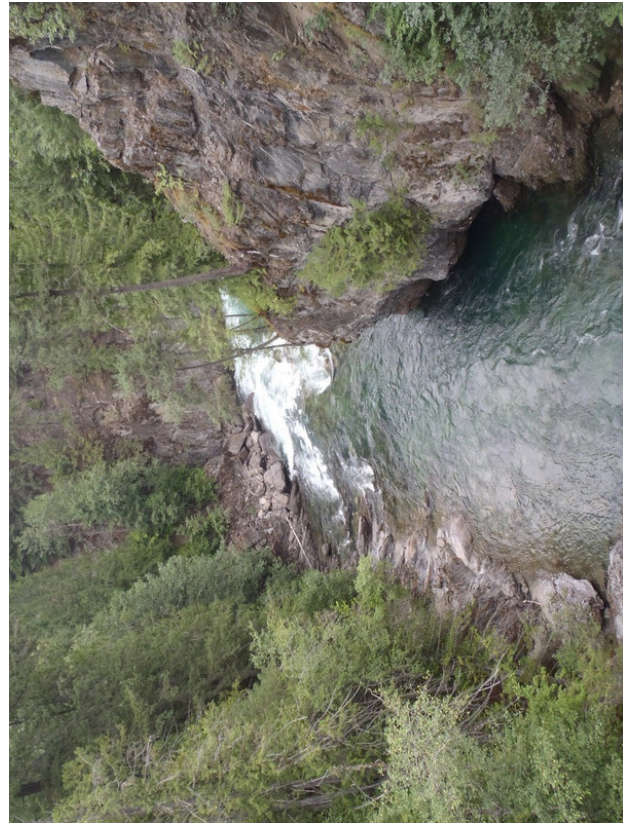


Figure 4: Looking downstream.



Figure 1: Upstream elevation.



Figure 3: Looking upstream.

|            |         |           |                |                 |            |
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Figure 6: Left end approach.



Figure 8: General deck condition.



Figure 5: Right end approach.



Figure 7: Typical fender, right end downstream shown.

|            |         |           |                |                 |            |
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Figure 10: Downstream curb.



Figure 12: Span 1 looking toward the right abutment (North Bend). Kink in downstream curb at Pier #1; due to failure of 3 of 4 Span 1 anchor bolts at Pier #1.



Figure 9: Upstream curb.



Figure 11: Span 1 looking toward the right abutment (North Bend). Kink in upstream curb at Pier #1; due to failure of 3 of 4 Span 1 anchor bolts at Pier #1.

|            |         |           |                |                 |            |
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Figure 14: Typical deterioration of grouted deck joint.



Figure 16: Typical underside of deck panels.



Figure 13: Typical condition of grouted deck joint.



Figure 15: Typical condition of expansion joint.

|            |         |           |                |                 |            |
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Figure 18: Typical exterior face of girders - Span 3 girder 2 shown.



Figure 20: Left end abutment.



Figure 17: Typical debris accumulation along bottom flange - Span 2 downstream shown.



Figure 19: Typical interior face of girders - Span 3 girder 1 shown.

|            |         |           |                |                 |            |
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Figure 22: Right end abutment upstream wingwall/ ballast wall.



Figure 24: Right end upstream wingwall (upper) - note loss of fill below footing.



Figure 21: Right end abutment.



Figure 23: Right end abutment downstream wingwall.

|            |         |           |                |                 |            |
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Figure 26: Right end upstream wingwall (lower) - note rotation of wall.



Figure 28: Pier 1 right end face.



Figure 25: Right end upstream wingwall (lower) - note condition of tiebacks.



Figure 27: Pier 1 left end face.

|            |         |           |                |                 |            |
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Figure 30: Pier 2 left end face.



Figure 32: Right end embankment below Pier 2.



Figure 29: Left end embankment below Pier 1.



Figure 31: Pier 2 right end face.

|            |         |           |                |                 |            |
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Figure 34: Pier 1 Span 1 bearing - Note bearing squeezed out.

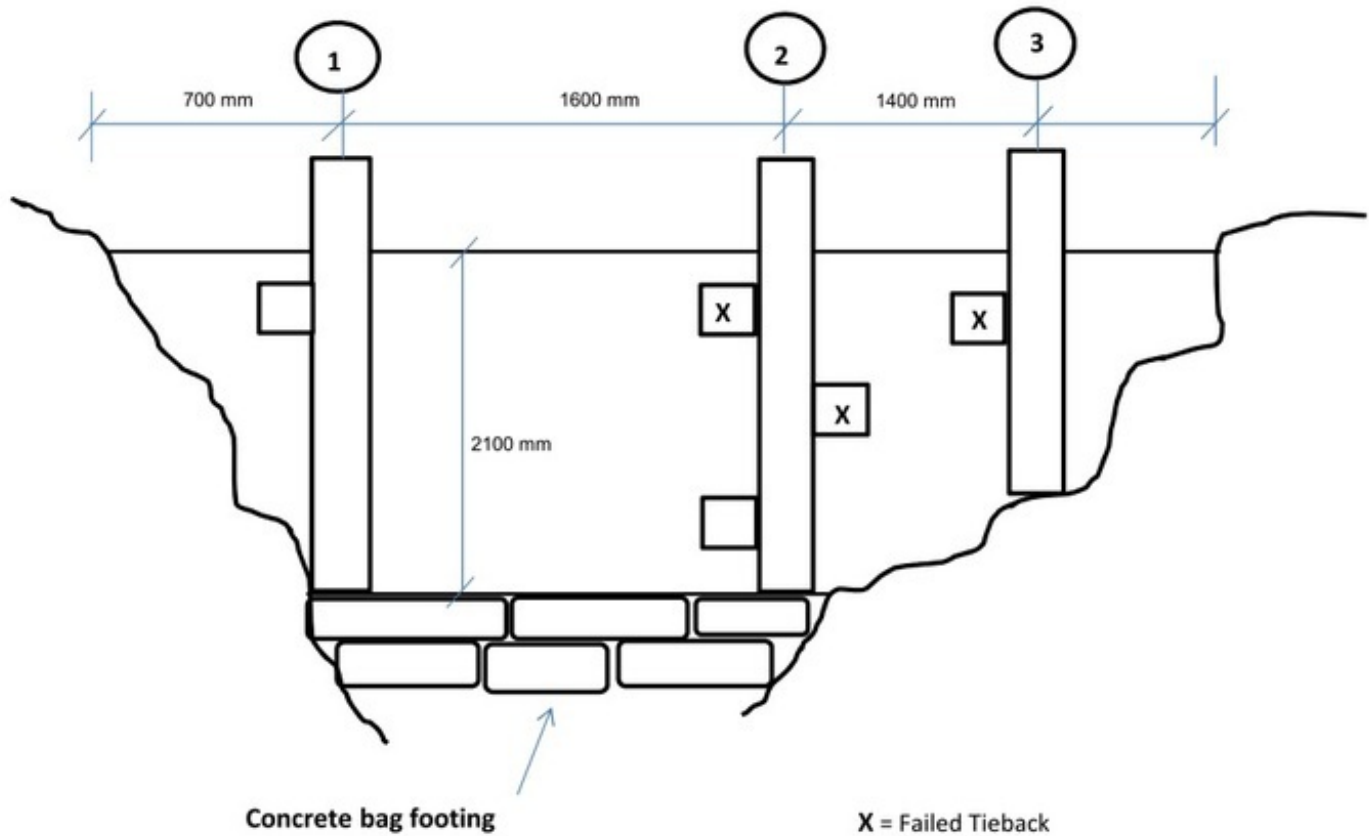


Figure 33: Pier 1 span 1 downstream bearing - Note failed anchor bolt.



Figure 35: Pier 2 downstream bearing - Note condition of painted steel.

|            |         |           |                |                 |            |
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| Post | Measured Angle |
|------|----------------|
| 1    | 5°             |
| 2    | 10°            |
| 3    | 7.5°           |

Sketch 1: Right abutment upstream wingwall.