| | | | | | | | Bridge I | nspe | ction | | | | | | | | |
|---|---------|-----------------|-----------|--------------------|------------------------|---|------------|-----------------|--|-----------------|-----------------------|-----------------|-----------------|---|---------|-----|--|
| Bridge File Num | nber | 77349 -1 Bridge | | | | | | For | Form Type | | | PSR | | | | | |
| ear Built/Year 1978/1978 | | | | | | | Lot | Lot No. | | | 1 | | | | | | |
| Supstr | | | | | | | | | Inspector Name | | | Owen Salava | | | | | |
| Bridge or Town Name PENHOLD | | | | | 45.000 | Inspector Class | | | BR CLS A | | | | | | | | |
| Located Over 2:24 L1 15.678;2: B:RAMP 45-1 F | | | | | 24 R1 15.686;RAMP 45-1 | | | | Assistant Name | | | | | | | | |
| _ocated On | | 42:08 | C1 3.938 | | | | | Assistant Class | | | | | | | | | |
| Nater Body CI./ | Year | | | | | | | Inspection Date | | | 14-Mar-2013 | | | | | | |
| Navigabil. Cl./Year | | | | | | | | | Marcia Chavez | | | | | | | | |
| | | | | | 37 RGE 27 W4M | | | | | Data Entry Date | | | 27-Mar-2013 | | | | |
| Longitude, Latitude -113:48:53, 5 | | | | 52:08:35 | | | | | Reviewer Name | | | John O'Brien | | | | | |
| | | | | ansportation (AIT) | | | | | Review Date | | | 17-Mar-2013 | | | | | |
| Contract Main. Area CMA19 | | | | | | | | | · · · · · | | | Chris Black | | | | | |
| Clear Roadway | /Skew | 14 / | | | | Dept. Review Date | | | 28-Mar-2013 | | | | | | | | |
| ADT/Year | | 1,330 | / 2011 (A |) | | | | Fol | low-Up | Ву | | | | | | | |
| Road Classifica | tion | RAU-2 | 213.4-120 |) | | | | | | | | | | | | | |
| Detour Length (| km) | 10 | | | | | | | | | | | | | | | |
| Allowable Load | | igle C | S1 28 | | Sem | emi CS2 49 | | | Train | | CS | 3 62 | | > On Critical Spans >Critical Member | | | |
| Design Loading | : | N | IS23 | | | | | | | | | | > Primary | Span | | | |
| | | | | | | | osting I | | nation | | | | | | | | |
| Required Vert. | | | | UND | ER: 2 L' | 1 5.5m | n, 2 R1 5 | 5.5m | | | | | | | | | |
| Posted Vertical | | | | Yes | | | | | | | | | | | | | |
| Posted: Lane | NB | | Bridge (r | | In Adv | | | Yes | Lane | SB | 0 | n Bridge (m) | 5.4 | In Advance | e (Y/N) | Yes | |
| Remarks | Servio | ce road | 6.1m NB | & 5.3m | SB, also | o poste | ed in ad | vance | e. | | | | | | _ | | |
| Required Load Posting (t) Single | | | | | | Semi | | | Truc | k Train | | | | | | | |
| osted Loading | (t) | | | Sing | Single | | | | Semi | Semi | | | Truck Train | | _ | | |
| Posted: | Lane | EB | | At Ju | inction (| Y/N) | No | | In Adva | vance (Y/N) | | No | At Bridge (Y/N) | | No | | |
| Posted: | Lane | e WB | | At Ju | At Junction (Y/N) | | No | | In Advance (Y/N) | | No At Bridge (Y/N) No | | | | | | |
| Remarks | Not re | equired. | | | | | | | | | | | | | | | |
| Hazard Marker | At Brid | ge (Y/N | l) No | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | | | | |
| Other Sign Type | es | | | | | | | | | | | | | | | | |
| | | | | | | Ut | tilities (| Loca | ted at) | | | | | | | | |
| Jtility Attachme | | | | | | | | | | | | | | | | | |
| Felephone | South | | | | | | | Ga | | | | | | | | | |
| Power | 3 wire | s East | & West ir | nterchan | ge r/w. | | | | Municipal | | | | | | | | |
| Others | | | | | | | | Pro | oblem (Y/N) No | | | | | | | | |
| Remarks | | | | | | | | | | | | | | | | | |
| | | | | | | Lest | Approa | | | n et c | on d' | lion | | | | | |
| Horizontal Align | ment | | | | | Last 8 | Now | · · · | Explanation of Condition Typical crest curve on grade separation. | | | | | | | | |
| Vertical Alignme | | | | | | 8 | 7 | _ 'yμ | ncal cle | St Curv | | grade separat | .011. | | | | |
| Roadway Width | | | 14.70 | 0 | | / | / | 10 | ACP 35mm above paving lip at NE. | | | | | | | | |
| Approach Bump | . , | | 14.70 | .0 | | 6 | 6 | 70 | JUIII | | e pav | ing ip at NE. | | | | | |
| Guardrail (Y/N) | , | | Yes | | | 0 | 0 | | | | | | | | | | |
| Guardrail (1714) | | | 165 | | | 7 | 7 | | | | | | | | | | |
| | | | | / | / | | | | | | | | | | | | |
| Length (m)68.000Current Standard (Y/N)No | | | | | | Insufficient posts/spacing next to bridge, all corners - minor. | | | | | | | | | | | |
| | | (N) | | | W/N | | | | ufficient t thrie be | | /spaci | ng next to brid | ige, a | all corners - n | ninor. | | |
| Termination Type TURNED DOWN Drainage | | | | 3 | 3 | (Erosion @ SW & NE sideslopes - photos. 13Sep2011) - Snow covered. NE corner eroded along curtain wall and undermining slope protection. Minor erosion along NW wingwall. | | | | | | | | | | | |

Alberta Transportation

| Approach Road | | | | | | | | | | |
|-----------------------------------|----------------------------------|----------|----------|----------------|----------|------|--|--|--|--|
| | | | | | Last | Now | Explanation of Condition | | | |
| Approach R | load General I | Rating | | | 7 | 7 | | | | |
| | | - | | | | | | | | |
| Duidue Osm | | | | | 1 | | tructure | | | |
| Bridge Com | • | no Long | 4h o / m | | | | Explanation of Condition | | | |
| | an : FM, 4 Spa | ns, Leng | tns(n | 1): 22-20-20-2 | 26, A-10 | | mber:) | | | |
| - | Special Features Special Feature | | | | | | | | | |
| (Type : EXT LATER POST TENS) | | | | | | 7 | | | | |
| Special Feature | | | | | | 7 | | | | |
| (Type : UNDERSLUNG DIAPHR) | | | | | | 1 | | | | |
| | | | atinas | | | | | | | |
| N (%) 1 (%) 2 (%) | | | | | | | | | | |
| Last | 0 | 0 | | 0 | 3 (%) | 0 | | | | |
| Now | 5.0 | 0.0 |) | 0.0 | 0.0 | | | | | |
| Wearing Sur | | | | | 6 6 | | Chip sealed. | | | |
| | ype : CONCRI | ETE - CO | NVE | NTIONAL CH | - | - | | | | |
| COAT) | | | | | | | | | | |
| | s(mm) : 50) | | | | | | - | | | |
| Lateral Conr (Y/N) | nection Problem | n No | C | | | | | | | |
| Deck Top | | | | | N | N | | | | |
| | | | | | | | | | | |
| Deck Rideat | bility | | | | 7 | 7 | | | | |
| Deck Joints | Deck Joints | | | | | | Water overtoping plumbing when it ices up staining backwalls | | | |
| Temperature (deg. C) -14 | | | | | | | randomly. Icing at A2; drain plumbing appears to be rusted through. | | | |
| (Expansion Type : FINGER PLATES) | | | | | | | | | | |
| (Fixed Typ | e : GLAND (W | ABO-MA | UER, | , TRANSFLE | X, ETC |)) | | | | |
| Gap Size (mm) Gap Location | | | | | | | | | | |
| 65 W. abut | | | | | | | | | | |
| 110 | | E | E. abu | ıt | | | _ | | | |
| 74 | | ١ | N. pie | r | | | - | | | |
| 70 E. pier | | | | | | | - | | | |
| 73 | | | Cen pi | ier | | | - | | | |
| | | | | | | | | | | |
| Deck Draina | • | | | | 7 | 4 | No drains. Backwall stains from plumbing leaks. | | | |
| Drains Clo | gged (Y/N) | | | | | | Icing at NE bearing seat. | | | |
| Curbs/Media | an | | | | 6 | 6 | Sealed. | | | |
| (Curb Type | e : Standard) | | | | | | | | | |
| Scaling (P | ercent Area) | 1 | | | | | | | | |
| Bridge Rail | | | | | 8 | 8 | | | | |
| (Type : GA | | FEEL BR | IDGE | TUBE) | | | | | | |
| Bridge Rail F | Posts | | | | 7 | 7 | Rusting at base of posts. | | | |
| (Type : GA STEEL) | | OST STE | EL;G | ALVANIZED | POST | | | | | |
| | Bridge Rail/Posts Coating | | | | | |] | | | |
| | LVANIZED) | | | | | | | | | |
| Sidewalk | | | | | X | X | | | | |
| Girder Detail | Ratinos | | | | | | | | | |
| 2.0.2010 | N (count) | 1 (count | t) | 2 (count) | 3 (cou | unt) | | | | |
| Last | 0 | 0 | , | 0 | | 2 | 1 | | | |
| Now | 0 | 0 | | 0 | - | 3 | | | | |
| - | | | | - | | | 1 | | | |

Alberta Transportation

| | | | tructure Explanation of Condition |
|-----------------------|---|---|--|
| | | 1101 | |
| engths(m): 22-26-26-2 | 26, A-Id | ent Nu | mber:) |
| | 3 | 3 | S1G1,9 & S2G1 vertical end cracks - monitor. |
| Yes | | | Repaired cracks @ ends of girders over W pier. Typical FM cracking in chamfer. |
| 0 | | | S1G1,9 & S2G1 have vertical end of girder cracks at P1,2. |
| | | | S1G9 delam. |
| | 6 | 6 | Minor scaling on chamfer of some diaphragms. |
| 1 | 7 | 7 | |
| -14 | | | |
| E STRIP BEARING) | | | |
| | WITH | | |
| Yes | | | |
| Yes | | | |
| | 5 | 5 | Minor efflorescence @ span #1 South ext. |
| 1 | | | |
| | | | |
| No | | | |
| No | | | |
| I | 3 | 3 | |
| | | Subst | |
| | | | Explanation of Condition |
| | | 1 - | |
| | 7 | 7 | Ice at NE on seat. |
| | | | |
| | 7 | 7 | Ice at NE on breastwall. |
| | 6 | 6 | |
| | N | N | |
| | 4 | 4 | Peeling off wingwalls - photo. |
| | 8 | 8 | |
| | Х | 4 | Erosion ditches along NE curtain wall; minor erosion at SE wall. |
| | | | |
| | | | Short delam cracks at S end of W pier. Staining at P1, both ends; P2, S end. |
| | 5 | 5 | Stanning at F 1, both enus, F2, 5 enu. |
| | | | |
| 5:5:5) | | 1 | - |
| | 8 | 8 | |
| | X | Х | |
| | Х | Х | |
| | 5 | 5 | N end P1 has corrosion stains & sealer deteriorated; S end P1 has |
| | | | cracks on bottom surfaces. Grey. |
| | | | |
| | 8 | 8 | |
| | | | |
| | Yes 0 -14 E STRIP BEARING) JEOPRENE BEARING TEEL) Yes Yes 1 No | 3 Yes 0 -14 Formation of the second of the se | 3 3 Yes - 0 - 6 6 7 7 -14 - E STRIP BEARING) - Yes - Yes - Yes - Yes - Yes - Yes - No - No - No - I - I - No - I - I - I - I - I - I - I - I - I - I - I - I - I - I - I - I - <tr td=""></tr> |
| | | | |

| | | | Subst | ructure | | | | | |
|---------------------------|-----------|------|---------|--|--|--|--|--|--|
| Bridge Component | | Last | Now | Explanation of Condition | | | | | |
| Debris (Y/N) | No | | | | | | | | |
| Substructure General Rati | ng | 5 | 5 | | | | | | |
| | | S | Structu | re Usage | | | | | |
| | | Last | Now | Explanation of Condition | | | | | |
| Grade Separation | | | | | | | | | |
| Road Alignment | | 9 | 9 | | | | | | |
| Traffic Safety Features | | 4 | 6 | | | | | | |
| Туре | Guardrail | | | | | | | | |
| Slope Protection | | 3 | 3 | 100mm separation btwn slabs on W abut near top - sealed. | | | | | |
| (Type : CONCRETE; CON | ICRETE) | | | 360mm gap near top of E slope filled with asphalt. Eroding at NE. | | | | | |
| Bank Stability | | 4 | 4 | Toe of E hslp buckled at base. | | | | | |
| Drainage | | 4 | 5 | Ponding W shoulder at W hslp - minor. | | | | | |
| Grade Separation General | Rating | 4 | 4 | | | | | | |
| | itaniy | - | - | | | | | | |

Alberta Transportation

| | | | | | Maintenance Re | commend | ations | | | | | | Ļ |
|---|----------------|----|----------|-----------------------|---|------------------------|--------------------------------------|--------------|-----------|-----------|--------|-----------|-----|
| Inspector Recommendations | | | Year | Inspecto | r Comments | | Target Y | ear | Est. Cost | Cat # | | | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | | | | | | | |
| SEAL CURBS | | | | | | | | | | | | | |
| PATCH DECK | | | | | | | | | | | | | |
| SEAL DECK | | | | | | | | | | | | | |
| OVERLAY DECK | | | | | | | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | | | 2015 | Replace abutmen | finger joints with waterproof its. | joints at | | | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | | | | | | | |
| WASHING | | | | | | | | | | | | | |
| SHOTCRETE RE | PAIRS | | | | | | | | | | | | |
| REPAIR ABUTME | NT SCOUR/EROSI | ON | 2013 | Fill gap i | n slope protection with ACP. | | | | | | | | |
| PLACE ADDITION | NAL RIP RAP | | | | | | | | | | | | |
| REMOVE DRIFT | ACCUMULATION | | | | | | | | | | | | |
| OTHER ACTION | | | 2013 | Grind AC | CP level at NE paving lip. | | | | | | | | |
| OTHER ACTION | | | 2013 | At NE, 2 corners 8 | m3 road crush to repair ero & divert water onto headslop | sion at e. | | | | | | | |
| OTHER ACTION | | | 2013 | Scrape a wingwall | and reseal exposed concrete s. | e at | | | | | | | |
| OTHER ACTION | | | 2013 | | r toe wall to stabilize slope p | rotection. | | | | | | | |
| OTHER ACTION | | | 2013 | | kwalls, seats, breastwalls & | | | | | | | | |
| OTHER ACTION | | | 2013 | Repair p | lumbing to keep water off | | | | | | | | |
| | | | | substruc | | | | | | | | | |
| OTHER ACTION | | | 2013 | Assess g | girders & repair. | | | 1 | | | | | |
| Structural Condition Rating (Last/Now) (%) | | | 44.4/44. | 4 | Sufficiency Rating (Last/I (%) | Now) | 46.4/45.7 | Est. Repl. Y | 2035 | Main | t. Rec | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | omments for | | | | | Department Comments | | | | | | | |
| Maintenance Rev | iewed By | | | | | | Date | | | Estimated | Total | 0 | |
| Proposed Long-T | | | | | | | | | | | | | |
| On 3-Year Progra | m (Y/N) | | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | | | |
| Previous Inspector's Name Owe | | | Salava | | | Previous | | | | | | | |
| | | | -2014 | | | Previous | Previous Inspection Date 13-Sep-2011 | | | | | | |
| Inspection Cycle (Default) (months) 21 | | | | | | | | | | | | | |
| Comment | Comment | | | | | | | | | | | | |