Culvert Inspection Report

CV 231-067-164.10
US 231
over

Inspection Date: 07/28/2017
Inspected By: Daniel W. Bewley
Inspection Type(s): Culvert
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7/28/2017. Culvert inspection notes by Dan Bewley. I was not assisted by anyone during the July 2017 inspection. The approach pavement & guardrail seem to be functioning as designed. The wearing surface is asphalt the same as the approach pavement. There is wide cracks noted. Both ends of the slab shows spalls, wet concrete with efflorescence. I noted a large spall in the slab below the NB lane. Both of the abutments have vertical cracks with efflorescence. Dan Bewley 7/28/2017
Culverts and Pipes

Barrel/Box Rating 4

The slab has spalled areas at each end with exposed rebar. Both of the abutments are cracked with efflorescence. Dan Bewley 7/28/2017

Coping Rating

Headwall Rating 6

The slab has moderate spalling with exposed rebar. The slab is also cracked with leaching. The headwall has severe spalling with exposed rebar at the west end. Dan Bewley 7/28/2017

Wingwalls Rating

Settlement Rating

(113) Scour Critical Bridges 4

(36A) Bridge Railings

Overtopping Frequency 1

Structures

Superstructure

(59) Superstructure 4

Concrete Slab Rating 4

Beams/Girders Rating

Substructure

(60) Substructure 5

Abutment Bent Cap Rating 5

Abutments Rating 5

Footings Rating

Pile Rating

Both of the abutments have efflorescence with cracks. Dan Bewley 7/28/2017

Channel Related Items

(61) Channel and Channel Protection 6

Bank Erosion Rating 6

Drift/Sediment Rating 6

Channel Alignment Rating 7

There is minor bank erosion at both ends of the structure. There is minor sediment build up throughout the structure. I did note scour seems to be occurring at the SE corner. Dan Bewley 7/28/2017
<table>
<thead>
<tr>
<th>Additional Treatment Condition Rating:</th>
<th>4</th>
<th>Treatment Type:</th>
<th>Widening</th>
<th>Material:</th>
<th>Concrete</th>
<th>Year Constructed:</th>
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</thead>
<tbody>
<tr>
<td>Shape: See Note</td>
<td>Vertical Opening:</td>
<td>Indicator Side:</td>
<td>East</td>
<td>Length Beyond Original Structure:</td>
<td>10'</td>
<td></td>
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</tbody>
</table>

**Treatment Description**
The culvert has two 10' extensions on either side.

**Comments**
The widening slab on the W side is in poor condition. I see exposed rebar, wet concrete & efflorescence.

<table>
<thead>
<tr>
<th>Additional Treatment Condition Rating:</th>
<th>5</th>
<th>Treatment Type:</th>
<th>Widening</th>
<th>Material:</th>
<th>Concrete</th>
<th>Year Constructed:</th>
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**Treatment Description**
The culvert has two 10' extensions on either side.

**Comments**
The widening slab on the W side is in poor condition. I see exposed rebar, wet concrete & efflorescence.
PHOTO 1
Condition
Description  Road alignment looking South

PHOTO 2
Condition
Description  Road alignment looking North
Pictures

PHOTO 3  Condition
Description  Wearing surface condition

PHOTO 4  Elevation, Condition
Description  Profile looking East
PHOTO 5  Elevation, Condition
Description  Profile looking West

PHOTO 6  Condition
Description  South abutment condition
<table>
<thead>
<tr>
<th>PHOTO 7</th>
<th>Condition</th>
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<tbody>
<tr>
<td>Description</td>
<td>North abutment condition</td>
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</table>

<table>
<thead>
<tr>
<th>PHOTO 8</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Bottom of slab condition</td>
</tr>
</tbody>
</table>
Pictures

PHOTO 9  Condition
Description  Exposed footer at the SE corner

PHOTO 10  Condition
Description  Up stream alignment or looking East
Pictures

PHOTO 11  Condition
Description  Down stream alignment or looking West
### Miscellaneous Asset Data - Asset # CV 231-067-164.10

<table>
<thead>
<tr>
<th>Joints</th>
<th>Location:</th>
<th>Type:</th>
<th>Rating (Lowest Rated Joint):</th>
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<table>
<thead>
<tr>
<th>Paint</th>
<th>Rating</th>
<th>Paint Year</th>
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- **Asset Type Has Changed**

### Original RP Data Source

<table>
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<tr>
<th>RP</th>
<th>Offset</th>
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| Compliance Month: |

- **Bridge File Complete**

  Date: 
  Organization: