



**LAWRENCE COUNTY BRIDGE INSPECTIONS
2021 SUMMARY REPORT**

STRUCTURE NUMBER: 41-120-105 **SUFF. RATING:** 34.9
LOCATION: Christensen Rd by Maitland Rd Spearfish **TYPE:** Prestressed Concrete Tee Beam
FEAT. CARRIED: Christensen Road **FEAT. CROSSED:** Trib to False Bottom Creek
POSTED AT: SU 18 Comb. 30 **REC. POSTING:** SU 18 Comb. 30
NBI CONDITION RATINGS:
DECK: 3 **SUPERSTRUCTURE:** 4 **SUBSTRUCTURE:** 3
CULVERT: N/A. **CHANNEL:** 7 **APPROACH:** 7

REPAIRS:

Repairs Required to Increase Load Limit:

Replace bridge. Too many items to repair for rehabilitation to be a viable option. Consider replacing soon. As structure continues to deteriorate, expect the bridge load ratings to be decreased until such time that closure is required.

Repairs – Preservation and General Structure Maintenance:

If bridge replacement is not an option: Replace deck units 3, 4, and 6 at a minimum and consider replacing all of them. Replace abutment backwall pile caps and paint. Repair/repaint abutment piles.

Repairs – Approach and Signing:

None.

Repairs – Channel and/or Berms:

None.

Repairs to Improve Safety and/or Upgrade to Current FHWA Standards:

Install missing rail post at SW corner of bridge.

STRUCTURE NUMBER: 41-250-268 **SUFF. RATING:** 34.2
LOCATION: 1.3N 2.5W OF Nemo **TYPE:** P/S Conc Continuous Multiple Box Beam
FEAT. CARRIED: Nemo Road **FEAT. CROSSED:** Box Elder Creek
POSTED AT: Legal Loads/Closed Girder 10 to Traffic **REC. POSTING:** Legal Loads/Closed Girder 10 to Traffic
NBI CONDITION RATINGS:
DECK: 3 **SUPERSTRUCTURE:** 3 **SUBSTRUCTURE:** 7
CULVERT: N/A. **CHANNEL:** 7 **APPROACH:** 7

REPAIRS:

Repairs Required to Increase Load Limit:

Replace severely deteriorated prestressed concrete box beam No. 10 and keep that portion of the bridge closed until this deck unit is replaced.

Repairs – Preservation and General Structure Maintenance:

Replace deteriorated prestressed concrete box beam No. 1. Remove asphalt surfacing from the deck. Evaluate condition of the remaining prestressed concrete box beams. Repair if possible and seal or replace if necessary. Exterior beams may require replacement if there are no viable repair options.

Repairs – Approach and Signing:

Lap the NW and SE approach W-beam with traffic – not against. Replace damaged end shoe of the NE approach rail.

Repairs – Channel and/or Berms:

None.

Repairs to Improve Safety and/or Upgrade to Current FHWA Standards:

None.