

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

Vermont Agency of Transportation ~ Structures Section ~ Bridge Management and Inspection Unit

Inspection Report for : E. MONTPELIER

Bridge No.: 00022

District: 7

Located on: C3030 over WINOOSKI RIVER

approximately 0.6 MI TO JCT W US2

Owner: TOWN-OWNED

CONDITION

Deck Rating: 8 VERY GOOD
Superstructure Rating: 8 VERY GOOD
Substructure Rating: 7 GOOD
Channel Rating: 6 SATISFACTORY
Culvert Rating: N NOT APPLICABLE
Federal Str. Number: 101207002212071
Federal Sufficiency Rating: 73.7
Deficiency Status of Structure: FD

STRUCTURE TYPE and MATERIALS

Bridge Type: RLD BM/QUEEN POST CB
Number of Approach Spans: 0000 Number of Main Spans: 001
Kind of Material and/or Design: 3 STEEL
Deck Structure Type: 1 CONCRETE CIP
Type of Wearing Surface: 0 NOT APPLICABLE
Type of Membrane: 0 NONE
Deck Protection: 0 NONE

AGE and SERVICE

Year Built: 1851 Year Reconstructed: 1973
Service On: 1 HIGHWAY
Service Under: 5 WATERWAY
Lanes On the Structure: 01
Lanes Under the Structure: 00
Bypass, Detour Length (miles): 06
ADT: 000150 % Truck ADT: 02
Year of ADT: 2007

APPRAISAL *AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: 0 DOES NOT MEET CURRENT STANDARD
Transitions: 0 DOES NOT MEET CURRENT STANDARD
Approach Guardrail: 1 MEETS CURRENT STANDARD
Approach Guardrail Ends: 1 MEETS CURRENT STANDARD
Structural Evaluation: 7 BETTER THAN MINIMUM CRITERIA
Deck Geometry: 2 INTOLERABLE REPLACEMENT NEEDED
Underclearances Vertical and Horizontal: N NOT APPLICABLE

Waterway Adequacy: 6 OCCASIONAL OVERTOPPING OF ROADWAY WITH
INSIGNIFICANT TRAFFIC DELAYS
Approach Roadway Alignment: 4 MEETS MINIMUM TOLERABLE CRITERIA

Scour Critical Bridges: U UNKNOWN FOUNDATION

GEOMETRIC DATA

Length of Maximum Span (ft): 0064
Structure Length (ft): 000073
Lt Curb/Sidewalk Width (ft): 0
Rt Curb/Sidewalk Width (ft): 0
Bridge Rdwy Width Curb-to-Curb (ft): 13.1
Deck Width Out-to-Out (ft): 13
Appr. Roadway Width (ft): 016
Skew: 00
Bridge Median: 0 NO MEDIAN
Min Vertical Clr Over (ft): 08 FT 09 IN
Feature Under: FEATURE NOT A HIGHWAY
OR RAILROAD
Min Vertical Underclr (ft): 00 FT 00 IN

DESIGN VEHICLE, RATING and POSTING

Load Rating Method (Inv): 2 ALLOWABLE STRESS(AS)
Posting Status: A OPEN, NO RESTRICTION
Bridge Posting: 5 NO POSTING REQUIRED
Load Posting: 10 NO LOAD POSTING SIGNS ARE NEEDED
Posted Vehicle: POSTING NOT REQUIRED
Posted Weight (tons):
Design Load: 4 H 20

INSPECTION

X-Ref. Route:

Insp. Date: 082017 Insp. Freq. (months): 24 X-Ref. BrNum:

INSPECTION SUMMARY and NEEDS

8/15/2017 Areas of rot in the bottom chord should be address at some point. Heavier brackets could be added to the beams under the bottom chords to help support the bottom chords. Debris in the seat area of abutment #1 should be removed. ~FRE/MAC

08/10/15 Minor to moderate decay found along cover bridge members. Neg camber in bottom chord most notable downstream side seems that the small angle brackets that extent from the rolled beams to the bottom of the chord have creeped downward. Deck & superstructure are in good shape. Rating for the Cover bridge portion would be a 6. MJK SP

08/5/13 Cover bridge portion has areas of decay along timbers considered minor at present time. Numerous knee bracing are either cracked through or gone completely, portal has minor damage along with side boards. Repairs needed. Concrete deck & beams in good condition. Due to NBIS guideline that the cover bridge is not carrying vehicle loading it's not included in the superstructure rating. Cover bridge portion rating would be 6. MJK SMP

05/12/11 Relatively good shape with minor decay along cover bridge portion. Cracked knee bracing abut 1 side upstream. MJK & PH

5/21/09 This structure is in satisfactory to good condition. There is some rot along the bottom chord at the abutment 2 end. The town should replace the broken knee bracing. There is some insect infestation in the truss members; the town should spray for insects. DCP