VERMONT

State of Vermont
Program Development - Structures Section
One National Life Drive [phone] 802-828-2621
Montpelier, VT 05633-5001 [fax] 802-828-3566
www.aot.state.vt.us [ttd] 800-253-0191

Agency of Transportation

March 28, 2013

RE: Calendar Year 2012 Bridge Inspection Summary Reports

Dear Community Official:

As required by the Federal Surface Transportation Act of 1978, all bridges exceeding 20 feet in span length are inspected on a 24 month cycle. A two-member team performs these inspections, with at least one member specially trained for this work. The Agency of Transportation provides these inspections as a service to the municipalities with the cost split between the Federal government (80%) and the State (20%).

Enclosed are the bridge inspection report summaries for structures located in your community which were inspected in calendar year 2012.

In an effort to reduce cost and resources, it is the intent of VTrans to make this the final year that inspection summary reports will be mailed. In the upcoming months, for all structures on public highways, the most recent report would be available for public viewing and printing under the Agency's VTransparency website application http://apps.vtrans.vermont.gov/vtransparency/Default.aspx.

With approximately 1,500 structures inspected statewide annually, the intent of these inspection summary reports is to provide an inventory of and information on the structural condition and a summary of areas of need only and not to offer an assessment regarding prioritization, preventative maintenance techniques which should be done as good practice, or specific recommendations on how to address deficiencies.

Each report represents a locally owned and maintained structure. As such, the municipality is responsible for the structure. It is recommended that these reports be shared with those individuals charged with upkeep of the structures as failure to address and/or remediate problems areas, stated within the summary section of this report, may result in additional damage or deterioration compromising public safety and/or substantially reducing the service life of the structure.

Please do not hesitate to contact this office or your local District Transportation Administrator with any questions or concerns regarding the content of these summary reports or if you are aware of any structures, exceeding 20 feet in span length, which we are not currently, and should be inspected.

Sincerely,

Wm. Michael Hedges

Wm. Michael Hedges, P.E.
Structures Program Manager

cc: Town File

VERMONT

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

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

Inspection Report for HINESBURG | *bridge no.: 00006* | *District: 5*

Located on: TR 03 FAS 208 ove LAPLATTE RIVER | *approx. 0.2 MI W JCT. VT.116* | *Owner: 03 TOWN-OWNED*

CONDITION

Deck Rating: N NOT APPLICABLE

Superstructure Rating: N NOT APPLICABLE

Substructure Rating: N NOT APPLICABLE

Channel Rating: 8 VERY GOOD

Culvert Rating: 5 FAIR

Federal Str. Number: 200208000604072

Federal Sufficiency Rating (April 2011): 087.1

Deficiency Status of Structure (April 2011): ND

AGE and SERVICE

Year Built: 1948 Year Reconstructed: 0000

Service On: 1 HIGHWAY

Service Under: 5 WATERWAY

Lanes On the Structure: 02

Lanes Under the Structure: 00

Bypass, Detour Length (miles): 11

ADT: 002010 % Truck ADT: 06

Year of ADT: 1995

GEOMETRIC DATA

Length of Maximum Span (ft): 0020

Structure Length (ft): 000020

Lt Curb/Sidewalk Width (ft): 0

Rt Curb/Sidewalk Width (ft): 0

Bridge Rdwy Width Curb-to-Curb (ft): 0

Deck Width Out-to-Out (ft): 0

Appr. Roadway Width (ft): 029

Skew: 00

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: FEATURE NOT A HIGHWAY OR RAILROAD

Min Vertical Underclr (ft): 00 FT 00 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: MULTI PLATE ARCH

Number of Approach Spans 0000 *Number of Main Spans: 001*

Kind of Material and/or Design: 3 STEEL

Deck Structure Type: N NOT APPLICABLE

Type of Wearing Surface: N NOT APPLICABLE

Type of Membrane N NOT APPLICABLE

Deck Protection: N NOT APPLICABLE

APPRAISAL *AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: N SAFETY FEATURE NOT REQUIRED

Transitions: N SAFETY FEATURE NOT REQUIRED

Approach Guardrail N SAFETY FEATURE NOT REQUIRED

Approach Guardrail Ends: N SAFETY FEATURE NOT REQUIRED

Structural Evaluation: 5 BETTER THAN MINIMUM TOLERABLE CRITERIA

Deck Geometry: N NOT APPLICABLE

Underclearances Vertical and Horizontal: N NOT APPLICABLE

Waterway Adequacy: 7 SLIGHT CHANCE OF OVERTOPPING BRIDGE & ROADWAY

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: 8 STABLE FOR SCOUR

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 5 NO RATING ANALYSIS PERFORMED

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: 2 H 15

INSPECTION and CROSS REFERENCE *X-Ref. Route:*

Insp. Date: 082012 *Insp. Freq. (months) 24* *X-Ref. BrNum:*

INSPECTION SUMMARY and NEEDS

08/30/2012 - Arch does have some adverse signs of settlement but full inspection is not possible as access is denied due to water level and with no visibility below water, as it is very murky year round. Arch is likely founded on a log mat system which is settling slowly. Grout and stone retaining walls are degrading and will need attention in a few years. Consider pouring concrete headers with posts to support rail system over the arch.

The joint areas along the multi plate arch have moderate section loss at the inlet end and continued rust staining and flaking steel through out. 8/10/10 DCP

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

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

Inspection Report for HINESBURG | *bridge no.: 00009* | *District: 5*

Located on: TR 05 FAS 212 ove HOLLOW BROOK | *approx. 0.5 MI E VT.116* | *Owner: 03 TOWN-OWNED*

CONDITION

Deck Rating: 6 SATISFACTORY

Superstructure Rating: 6 SATISFACTORY

Substructure Rating: 6 SATISFACTORY

Channel Rating: 6 SATISFACTORY

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 200212000904072

Federal Sufficiency Rating (April 2011): 051

Deficiency Status of Structure (April 2011): ND

AGE and SERVICE

Year Built: 1940 Year Reconstructed: 1969

Service On: 1 HIGHWAY

Service Under: 5 WATERWAY

Lanes On the Structure: 02

Lanes Under the Structure: 00

Bypass, Detour Length (miles): 17

ADT: 001560 % Truck ADT: 06

Year of ADT: 1995

GEOMETRIC DATA

Length of Maximum Span (ft): 0041

Structure Length (ft): 000043

Lt Curb/Sidewalk Width (ft): 0

Rt Curb/Sidewalk Width (ft): 0.5

Bridge Rdwy Width Curb-to-Curb (ft): 26

Deck Width Out-to-Out (ft): 28.5

Appr. Roadway Width (ft): 027

Skew: 30

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: FEATURE NOT A HIGHWAY OR RAILROAD

Min Vertical Underclr (ft): 00 FT 00 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: ROLLED BEAM

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: 6 BITUMINOUS

Type of Membrane 0 NONE

Deck Protection: 0 NONE

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: 4 MEETS MINIMUM TOLERABLE CRITERIA

Deck Geometry: 4 MEETS MINIMUM TOLERABLE CRITERIA

Underclearances Vertical and Horizontal: N NOT APPLICABLE

Waterway Adequacy: 6 OCCASIONAL OVERTOPPING OF ROADWAY WITH INSIGNIFICANT TRAFFIC DELAYS

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: 8 STABLE FOR SCOUR

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 1 LOAD FACTOR (LF)

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: 0 OTHER OR UNKNOWN

INSPECTION and CROSS REFERENCE

X-Ref. Route:

Insp. Date: 082012 *Insp. Freq. (months) 24* *X-Ref. BrNum:*

INSPECTION SUMMARY and NEEDS

08/30/2012 - Bridge rail has some impact damage at the southwest corner where two of the concrete posts are cracked thru at the curb interface and the curb also has shear cracks from the impact. The deck has a substantial overlay build up and has some exterior concrete loss and should be considered for a general rehabilitation with a membrane. The deck drains along the downstream side are causing fascia deterioration with advancing corrosion along beam #5 as a result. Possible fascia reconstruction should also be considered with fascia mounted bridge rail attachment. The steel beam superstructure also needs cleaning and painting. ~ MJ/DK

The concrete windslot drains should be plugged to keep the fascia beam from any further rusting. The beams need cleaning and painting. The spalling in the abutment ends need to be cleaned of loose material and then patched. The broken/deteriorated concrete guardrail posts need to be repaired or replaced to meet standards. 8/10/10 DCP

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

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

Inspection Report for HINESBURG | *bridge no.: 00010* | *District: 5*

Located on: TR 04 FAS 199 ove LAPLATTE RIVER | *approx. 0.1 MI S JCT. VT.116* | *Owner: 03 TOWN-OWNED*

CONDITION

Deck Rating: 8 VERY GOOD

Superstructure Rating: 8 VERY GOOD

Substructure Rating: 8 VERY GOOD

Channel Rating: 8 VERY GOOD

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 200199001004072

Federal Sufficiency Rating (April 2011): 069.3

Deficiency Status of Structure (April 2011): ND

AGE and SERVICE

Year Built: 2011 Year Reconstructed: 0000

Service On: 1 HIGHWAY

Service Under: 5 WATERWAY

Lanes On the Structure: 02

Lanes Under the Structure: 00

Bypass, Detour Length (miles): 30

ADT: 004876 % Truck ADT: 05

Year of ADT: 2011

GEOMETRIC DATA

Length of Maximum Span (ft): 0060

Structure Length (ft): 000062

Lt Curb/Sidewalk Width (ft): 0.7

Rt Curb/Sidewalk Width (ft): 0.7

Bridge Rdwy Width Curb-to-Curb (ft): 29

Deck Width Out-to-Out (ft): 31.2

Appr. Roadway Width (ft): 027

Skew: 00

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: FEATURE NOT A HIGHWAY OR RAILROAD

Min Vertical Underclr (ft): 00 FT 00 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: ROLLED BEAM

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: 6 BITUMINOUS

Type of Membrane 2 PREFORMED FABRIC

Deck Protection: 1 EPOXY COATED REBAR

APPRAISAL *AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: 1 MEETS CURRENT STANDARD

Transitions: 1 MEETS CURRENT STANDARD

Approach Guardrail 1 MEETS CURRENT STANDARD

Approach Guardrail Ends: 1 MEETS CURRENT STANDARD

Structural Evaluation: 8 EQUAL TO DESIRABLE CRITERIA

Deck Geometry: 4 MEETS MINIMUM TOLERABLE CRITERIA

Underclearances Vertical and Horizontal: N NOT APPLICABLE

Waterway Adequacy: 7 SLIGHT CHANCE OF OVERTOPPING BRIDGE & ROADWAY

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: 8 STABLE FOR SCOUR

DESIGN VEHICLE, RATING, and POSTING

Load Rating Method (Inv): 1 LOAD FACTOR (LF)

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: 9 HS 25

INSPECTION and CROSS REFERENCE

X-Ref. Route:

Insp. Date: 082012 *Insp. Freq. (months) 24* *X-Ref. BrNum:*

INSPECTION SUMMARY and NEEDS

08/30/2012 - Bridge built in 2011 and in good condition. Southwest approach rail does have some plow impact damage. ~ MJ/DK

11/17/2011 - This is a new structure in 2011 and is in good condition. ~ FE/DP

STRUCTURE INSPECTION, INVENTORY and APPRAISAL SHEET

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

Inspection Report for HINESBURG | *bridge no.: 00011* | *District: 5*

Located on: TR 04 FAS 199 ove LEWIS CREEK | *approx. 3.1 MI S JCT. VT.116* | *Owner: 03 TOWN-OWNED*

CONDITION

Deck Rating: 7 GOOD

Superstructure Rating: 7 GOOD

Substructure Rating: 7 GOOD

Channel Rating: 8 VERY GOOD

Culvert Rating: N NOT APPLICABLE

Federal Str. Number: 200199001104072

Federal Sufficiency Rating (April 2011): 073.6

Deficiency Status of Structure (April 2011): ND

AGE and SERVICE

Year Built: 1940 Year Reconstructed: 1983

Service On: 1 HIGHWAY

Service Under: 5 WATERWAY

Lanes On the Structure: 02

Lanes Under the Structure: 00

Bypass, Detour Length (miles): 30

ADT: 003330 % Truck ADT: 06

Year of ADT: 1995

GEOMETRIC DATA

Length of Maximum Span (ft): 0082

Structure Length (ft): 000084

Lt Curb/Sidewalk Width (ft): 0

Rt Curb/Sidewalk Width (ft): 0

Bridge Rdwy Width Curb-to-Curb (ft): 30

Deck Width Out-to-Out (ft): 31.6

Appr. Roadway Width (ft): 030

Skew: 15

Bridge Median: 0 NO MEDIAN

Min Vertical Clr Over (ft): 99 FT 99 IN

Feature Under: FEATURE NOT A HIGHWAY OR RAILROAD

Min Vertical Underclr (ft): 00 FT 00 IN

STRUCTURE TYPE and MATERIALS

Bridge Type: ROLLED BEAM

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: 1 EPOXY COATED REBAR

APPRAISAL *AS COMPARED TO FEDERAL STANDARDS

Bridge Railings: 1 MEETS CURRENT STANDARD

Transitions: 1 MEETS CURRENT STANDARD

Approach Guardrail 1 MEETS CURRENT STANDARD

Approach Guardrail Ends: 1 MEETS CURRENT STANDARD

Structural Evaluation: 7 BETTER THAN MINIMUM CRITERIA

Deck Geometry: 4 MEETS MINIMUM TOLERABLE CRITERIA

Underclearances Vertical and Horizontal: N NOT APPLICABLE

Waterway Adequacy: 8 SLIGHT CHANCE OF OVERTOPPING ROADWAY

Approach Roadway Alignment: 8 EQUAL TO DESIRABLE CRITERIA

Scour Critical Bridges: 7 CORRECTIVE COUNTERMEASURES IN PLACE

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: 6 HS 20+MOD

INSPECTION and CROSS REFERENCE

X-Ref. Route:

Insp. Date: 082012 *Insp. Freq. (months) 24* *X-Ref. BrNum:*

INSPECTION SUMMARY and NEEDS

08/30/2012 - Gravel and sand build up below the approach rail could be removed. Bridge has only minor general deterioration. ~ MJ/DK

The bare deck is staring to show signs of deterioration and it may be beneficial to clean out all delams, patch and then pave with or without a membrane. The beams need cleaning and painting. The abutments and wings continue to deteriorate. 8/10/10 DCP