



Town: 178 - READSBORO District 1, 3 - BENNINGTON County Owner: 1 - State Highway Agency Maintenance Responsibility: 1 - State Highway Agency





42.77122, -72.94511



Structure #00025 / (Fracture Critical, Routine, Servi-Lift)

Route VT100 /

VT 00100 ML over DEERFIELD RIVER

# Team Lead: Justin White, Inspection Date: 04/25/2023

11) State Names   50 - Vermont     (8) Structure Number   200102002502902     (5) Inventory Route   1     (2) Highway Agency District   1 - District     (3) County Code   3 - BENNINGTON     (4) Place Code   58525     (6) Features Intersected   DEERFIELD RIVER     (7) Facility Carried   VT 00100 ML     (9) Location   5.2 MI N JCT. VT. 8     (11) Mile Point   0 mi     (13) LRS Inventory Rie & Subrite   11     (14) Latitude   -72.9451138888889     (98) Border Bridge State Code   198) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL   (43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   1 - Concrete Cast-In-Place     (108) Wearing Surface/Protective System   1 - Concrete (concurrently pl     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Service   5     (106) Year of ADT   2014     (107) De	IDENTIFIC	CATION
(5) Inventory Route     1       (2) Higfway Agency District     1 - District 1       (3) County Code     3 - BENNINGTON       (4) Place Code     58525       (6) Features Intersected     DEERFIELD RIVER       (7) Facility Carried     VT 00100 ML       (9) Location     5.2 MI N JCT. VT. 8       (11) Mile Point     0 mil       (12) Base Highway Network     No       (13) LRS Inventory Rte & Subrte     (16) Latitude       (16) Latitude     42.7712194444444       (17) Longitude     -72.945113888889       (99) Border Bridge State Code     (99) Border Bridge State Code       (99) Border Bridge State Code     (99) Border Bridge State Code       (99) Border Bridge Structure Type     43       Material     4 - Steel continuous       Type 0     0       (44) Approach Structure Type     0       (45) No. of Spans in Main Unit     3       (160) Leak Structure Type     1 - Concrete Cast-in-Place       (107) Deck Structure Type     1 - Monolithic Concrete (concurrently pl       Type of Membrane     0 - None       Type of Deck Prolection     0	(1) State Names	50 - Vermont
[2] Highway Agency District     1 - District       [3] County Code     3 - BENNINGTON       [4] Place Code     S6525       [6] Features Intersected     DEERFIELD RIVER       [7] Facility Carried     VT 00100 ML       [9] Location     5.2 MI N JCT. VT.8       [11] Mile Point     0 mi       [12] Base Highway Network     No       [13] LRS Inventory Rte & Subrte     (11) Latitude       [14] Latitude     42.771219444444       [17] Longitude     -72.9451138888889       [98] Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL       [43] Main Structure Type     4 - Steel continuous       Type     3 - Girder and floorbeam system       Type     0 - Other       [44] Approach Structure Type     1 - Concrete Cast-in-Place       [107] Deck Structure Type     1 - Concrete Cast-in-Place       [107] Deck Structure Type     1 - Concrete Cast-in-Place       [107] Deck Structure Type     1 - Monolithic Concrete (concurrently pl       Type of Membrane     0 - None       Type of Membrane     0 - None       [107] Deck Structure Type     1 - Monolithic Concrete (cast-in-Place		200102002502092
(3) County Code     3 - BENNINGTON       (4) Place Code     58252       (6) Features Intersected     DEERFIELD RIVER       (7) Facility Carried     VT 00100 ML       (9) Location     5.2 MI NJCT.VT.8       (11) Mile Point     0 mi       (12) Lass Highway Network     No       (13) LRS Inventory Rte & Subrte     (11) Latitude       (13) LRS Inventory Rte & Subrte     -72.9451138888809       (98) Border Bridge State Code     (99) Border Bridge State Code       (99) Border Bridge State Code     -72.9451138888809       (98) Border Bridge State Code     -72.9451138888809       (98) Border Bridge State Code     -00       (13) LRS Inventory Rte     4. Steel continuous       Type 0     -0 cOther       (44) Approach Structure Type     0 - Other       (45) No. of Spans in Main Unit     3       (160) Vearing Surface/Protective System     1 - Concrete Cast-in-Place       (108) Vearing Surface/Protective System     0 - None       Type of Deck Protection     0 - None       Type of Service     55       On     5 - Highway-Pedestrian       010     Year Built		1
[4] Place Code     58525       (6) Features Intersected     DEERFIELD RIVER       (7) Facility Carried     VT 00100 ML       (9) Location     5.2 MI N JCT. VT.8       (11) Mile Point     0 min       (12) Base Highway Network     No       (13) LRS Inventory Rte & Subrte     (16) Latitude       (16) Latitude     42.7712194444444       (17) Longitude     -72.9451138888889       (98) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL       (43) Main Structure Type     4       (43) Main Structure Type     0       Material     4 - Steel continuous       Type     3 - Girder and floorbeam system       (44) Approach Structure Type     0 - Other       (15) No. of Spans in Main Unit     3       (46) No. of Approach Spans     0       (107) Deck Structure Type     1 - Concrete Cast-in-Place       (108) Wearing Surface/Protective System     0       Type of Membrane     0 - None       Vape of Merbrane     0 - None       (108) Wearing Surface/Protective System     0       (109) Type of Membrane     5       (108) Wearing Surfa		
(6) Features Intersected     DEERFIELD RIVER       (7) Facility Carried     VT 00100 ML       (9) Location     5.2 MI N JCT. VT. 8       (11) Mile Point     0 mi       (12) Base Highway Network     No       (13) LRS Inventory Rte & Subrte     (14) Longitude       (17) Longitude     -72.9451138888889       (98) Border Bridge State Code     (99) Border Bridge Structure No.       STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type       (44) Approach Structure Type     3 - Girder and floorbeam system       (44) Approach Structure Type     0 - Other       (45) No. of Spans in Main Unit     3       (46) No. of Approach Spans     0       (107) Deck Structure Type     1 - Concrete Cast-In-Place       (108) Wearing Surface 1 - Monolithic Concrete (concurrently pl       Type of Wearing Surface     1 - Monolithic Concrete (concurrently pl       Type of Membrane     0 - None       Type of Service     55       On     5 - Waterway       (21) Year Built     1954       (106) Year Reconstructed     0 0       (22) Average Daily Traffic     1000       (23) Average Daily Traffic		
(7) Facility Carried   VT 00100 ML     (9) Location   5.2 MI N JCT. VT.8     (11) Mile Point   0 mi     (12) Base Highway Network   No     (13) LFS Inventory Rte & Subrte   (16) Latitude   42.7712194444444     (17) Longitude   -72.9451138888889   (99) Border Bridge State Code     (99) Border Bridge State Code   (99) Border Bridge State Code   (99) Border Bridge State Code     (43) Main Structure Type   43   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     Type   0 - Other     Type   0 - Other     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (107) Deck Structure Type   1 - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     Type of Membrane   0 - None     Type of Service   55     On   5 - Highway-pedestrian     Under   2 - Waterway     (28) Lane   0     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   (44) Structure Larget     (19) Truck AD		
[9] Location   5.2 MI N JCT. VT.8     (11) Mile Point   0 mi     (12) Base Highway Network   No     (13) LRS Inventory Rte & Subrte   (16) Latitude     (16) Latitude   42.7712194444444     (17) Longitude   -72.9451138688889     (98) Border Bridge State Code   (99) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL   (43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface / I - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     Type of Service   55     On   5 - Highway-pedestrian     Under   0     (22) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (24) Type of Service   55     On   5 - Highway-pedestrian     Under   0 <t< td=""><td></td><td></td></t<>		
[11] Mile Point     0 mi       [12] Base Highway Network     No       [13] LRS Inventory Re & Subrte     (16) Latitude     42.7712194444444       [17] Longitude     -72.9451138688889     (98) Border Bridge State Code       [99] Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type     4.       (43) Main Structure Type     3 - Girder and floorbeam system     (44) Approach Structure Type     00       (44) Approach Structure Type     0 - Other     Type     0 - Other       Type     0 - Other     Type     0 - Other       (107) Deck Structure Type     1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System       Type of Membrane     0 - None     1 - Sonorete (concurrently pl       Type of Membrane     0 - None       (27) Year Built     1954       (106) Year Reconstructed     0 0       (42) Type of Service     55       On     5 - Highway-pedestrian       (27) Year Built     1954       (106) Year of ADT     2018       (109) Truck ADT     0 6       (29) Average Daily Traffic     1000       (29)		
12) Base Highway Network   No     (13) LRS Inventory Rte & Subrte   (15) Latitude     (16) Latitude   42.7712194444444     (17) Longitude   -72.9451138888889     (98) Border Bridge Structure No.   STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     Type   0 - Other     (45) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-In-Place     (108) Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     (27) Year Built   1954     (106) Year Reconstructed   0 0     (29) Lane   0     (21) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (29) Lane   5 mi     (21) Type of Service   55     On   5 - Highway-pedestrian     (109) Tru		
(13) LRS Inventory Rte & Subrte     (16) Latitude   42.7712194444444     (17) Longitude   -72.9451138888889     (98) Border Bridge State Code   (99) Border Bridge State Code     (99) Border Bridge Structure No.   STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type   4. Steel continuous     Type   3. Girder and floorbeam system     (44) Approach Structure Type   00     Material   0. Other     Type   0. Other     (107) Deck Structure Type   1. Concrete Cast-in-Place     (107) Deck Structure Type   1. Concrete Cast-in-Place     (107) Deck Structure Type   1. Concrete (concurrently pl     Type of Mearing Surface/Protective System   0. None     Type of Mebrane   0. None     Vippe of Service   55     On   5. Highway-pedestrian     Under   0     (127) Year Built   1954     (106) Year and Sortuce   55     On   5. Highway-pedestrian     Under   0     (27) Year Built   1954     (106) Year of ADT   2018     (27) Year of Sortice   55     (28) Ave		
(16) Latitude     42.7712194444444       (17) Longitude     -72.9451138888889       (98) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL       (43) Main Structure Type     43       Material     4 - Steel continuous       Type     3 - Girder and floorbeam system       (44) Approach Structure Type     00       Material     0 - Other       Type     0 - Other       (107) Deck Structure Type     1 - Concrete Cast-in-Place       (108) Wearing Surface     1 - Monolithic Concrete (concurrently pl       Type of Wearing Surface     1 - Monolithic Concrete (concurrently pl       Type of Deck Protection     0 - None       Type of Deck Protection     0 - None       (106) Year Reconstructed     0       (21) Type of Service     55       On     5 - Highway-pedestrian       (104er     0       (22) Average Daily Traffic     1000       (23) Vaerage Daily Traffic     1000       (30) Year of ADT     2018       (109) Truck ADT     6 %       (19) Structure Length     340 ft       (50) Curb or Sidewalk Width     28.6		110
(17) Longitude     -72.94511388888889       (98) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL       (43) Main Structure Type     43       (44) Approach Structure Type     3 - Girder and floorbeam system       (44) Approach Structure Type     0       Material     4 - Steel continuous       Type     3 - Girder and floorbeam system       (44) Approach Structure Type     0 - Other       (45) No. of Spans in Main Unit     3       (46) No. of Approach Spans     0       (107) Deck Structure Type     1 - Concrete Cast-in-Place       (108) Wearing Surface/Protective System     Type of Membrane       Type of Membrane     0 - None       Type of Service     05       (106) Year Reconstructed     0       (106) Year Reconstructed     0       (107) Deck ADT     2018       (108) Year of ADT     2018       (199) Systac, Detour Length     5 - Waterway       (28) Lane     0       (19) Bypass, Detour Length     5 %       (19) Systac, Detour Length     5 %       (19) Systac, Detour Length     340 ft       (50) Curb or Sidewal		42 7712194444444
(98) Border Bridge State Code     (99) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     Type   0 - Other     Type   0 - Other     Type   0 - Other     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Deck Protection   0 - None     (27) Year Built   1954     (106) Year Reconstructed   0     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (29) Average Daily Traffic   1000     (109) Tuck ADT   6 %     (19) Bypass, Detour Length   5 mi     Geometrice Add Structure Length   30 ft     (48) Length of Maximum Span   130 ft		
(99) Border Bridge Structure No.     STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     (45) No. of Spans in Main Unit   33     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System   0     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Deck Protection   0 - None     Type of Service   55     On   5 - Highway-pedestrian     Under   0     (27) Year Built   1954     (106) Year Reconstructed   0     (28) Lane   0     Under   0     (29) Average Dally Traffic   1000     (30) Year of ADT   2018     (19) Spass, Detour Length   5 mi     GEOMETRIC DATA   (48) Length of Maximum Span   130 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   <		-72.3401100000000
STRUCTURE TYPE AND MATERIAL     (43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface Protective System   Type of Membrane     Type of Membrane   0 - None     Type of Deck Protection   0 - None     (27) Year Built   1954     (106) Year Reconstructed   0     (107) Deck Structure Type   0     (27) Yaer Built   1954     (106) Year Reconstructed   0     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (28) Lane   0     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (51) Bridge Roadway Width Curb to Curb		
(43) Main Structure Type   43     Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     Type   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     Type of Deck Protection   0 - None     (106) Year Reconstructed   00     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   5 - Waterway     (28) Lane   0     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   6 %     (19) Bypass, Detour Length   5 mi     (50) Curb or Sidewalk Width   24     (24) Approach Roadway Width Curb to Curb   28.6 ft     (51) Bridge Roadway Width Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft </td <td></td> <td>AND MATERIAL</td>		AND MATERIAL
Material   4 - Steel continuous     Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface /Protective System   0     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     Type of Service   0     (106) Year Reconstructed   0     (102) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (28) Lane   0     On   2     Under   0     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     (44) Length of Maximum Span   130 ft     (45) Deck Width Curb to Curb   28.6 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (33) Reige Median   0 - No median     (34) Skew   45 Deg		
Type   3 - Girder and floorbeam system     (44) Approach Structure Type   00     Material   0 - Other     Type   0 - Other     (45) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System   0     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl Type of Deck Protection   0 - None     C27) Year Built   1954     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (107) Deck Protective   55     On   5 - Highway-pedestrian     Under   0     (29) Average Daily Traffic   1000     (30) Year of ADT   2018     (19) Structure Length   5 mi     GEOMETRIC DATA   6 %     (48) Length of Maximum Span   130 ft     (50) Curb or Sidewalk Width   38 nt ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (33) Bridge Median   0 - No median     (34) Akew   45 Deg     (35) Structure Flared   0 - No median <		
(44) Approach Structure Type   00     Material   0 - Other     Type   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System   1 - Monolithic Concrete (concurrently pl Type of Membrane     Type of Deck Protective System   0 - None     Type of Deck Protective System   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (106) Year Generature   55     On   5 - Highway-pedestrian     Under   0     (28) Lane   0     On   2     Under   0     (30) Year of ADT   2018     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   28.6 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to		
Material   0 - Other     Type   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface 1 - Monolithic Concrete (concurrently pl     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Deck Protection   0 - None     Type of Service   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (28) Lane   0     On   2     Under   0     (29) Average Daily Traffic   1000     (30) Year of ADT   2018     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   6 %     (43) Length of Maximum Span   130 ft     (50) Curb or Sidewalk Width   10 - No median     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Total Horiz Clear   99.99 ft <td></td> <td>•</td>		•
Type   0 - Other     (45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System   Type of Membrane     Type of Deck Protection   0 - None     Type of Deck Protection   0 - None     (27) Year Built   1954     (106) Year Reconstructed   0     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   5 - Waterway     (28) Lane   0     (19) Pyear of ADT   2018     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft   (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft   (33) Bridge Median   0 - No median     (34) Skew   45 Deg   (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft   (47) Inventory Route Min Vert Clear   04.99.91 ft     (54) Min Vert Underclear RT   0 ft		
(45) No. of Spans in Main Unit   3     (46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System   Type of Wearing Surface     Type of Deck Protection   0 - None     Type of Deck Protection   0 - None     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (121) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (28) Lane   2     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA   30 ft     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   28.6 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (55) Min Lat		
(46) No. of Approach Spans   0     (107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface/Protective System   Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Deck Protection   0 - None     AGE AND SERVICE     (27) Year Built   1954     (106) Year Reconstructed   0     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   0     (28) Lane   0     (19) Average Daily Traffic   1000     (30) Year of ADT   2018     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   28.6 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (33) Structure Flared   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (55) Min Lat Underclear RT   0 ft <td></td> <td></td>		
(107) Deck Structure Type   1 - Concrete Cast-in-Place     (108) Wearing Surface   1 - Monolithic Concrete (concurrently pl Type of Membrane   0 - None     Type of Deck Protection   0 - None     (27) Year Built   1954     (106) Year Reconstructed   0     (106) Year Reconstructed   0     (27) Type of Service   55     On   5 - Highway-pedestrian     Under   5 - Waterway     (28) Lane   0     (29) Average Daily Traffic   1000     (30) Year of ADT   2018     (19) Bypass, Detour Length   5 mi     GECOMETRIC DATA     (48) Length of Maximum Span   130 ft     (50) Curb or Sidewalk Width   28.6 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (33) Structure Flared   0 - No median     (34) Skew   445 Deg     (35) Structure Flared   0 - No median     (34) Skew   45 Deg     (35) Min Lat Underclear RT   0 ft     (54) Min Vert Underclear RT   0 ft     (26) Min Lat Underclear LT   0 ft <tr< td=""><td></td><td></td></tr<>		
(108) Wearing Surface/Protective System     Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     Type of Deck Protection   0 - None     (106) Year Built   1954     (106) Year Reconstructed   0     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   5 - Waterway     (28) Lane   0     (109) Average Daily Traffic   1000     (30) Year of ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   28.6 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Underclear RT   0 ft     (54) Min Vert Unde		
Type of Wearing Surface   1 - Monolithic Concrete (concurrently pl     Type of Membrane   0 - None     Type of Deck Protection   0 - None     (27) Year Built   1954     (106) Year Reconstructed   0     (42) Type of Service   55     On   5 - Highway-pedestrian     Under   5 - Waterway     (28) Lane   0     (29) Average Daily Traffic   1000     (30) Year of ADT   2018     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   2     Left   2 ft     Right   5.8 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vett Clear   99.99 ft     (54) Min Vert Underclear RT   0 ft     (55) Min		m
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(106) Year Reconstructed     0       (42) Type of Service     55       On     5 - Highway-pedestrian       Under     5 - Waterway       (28) Lane     2       Under     0       (29) Average Daily Traffic     1000       (30) Year of ADT     2018       (109) Truck ADT     6 %       (19) Bypass, Detour Length     5 mi       GEOMETRIC DATA     (48) Length of Maximum Span     130 ft       (49) Structure Length     340 ft       (50) Curb or Sidewalk Width     12       Left     2 ft       Right     5.8 ft       (51) Bridge Roadway Width Curb to Curb     28.6 ft       (52) Deck Width Out to Out     38.7 ft       (32) Approach Roadway Width (W/Shoulders)     30 ft       (33) Bridge Median     0 - No median       (34) Skew     45 Deg       (55) Min Lat Underclear RT     0 ft       (56) Min Lat Underclear RT     0 ft       (55) Min Lat Underclear RT     0 ft       (38) Navigation Control     0 - No navigation control on w       (111) Pier Protection     0 ft	AGE AND S	ERVICE
(106) Year Reconstructed     0       (42) Type of Service     55       On     5 - Highway-pedestrian       Under     5 - Waterway       (28) Lane     2       Under     0       (29) Average Daily Traffic     1000       (30) Year of ADT     2018       (109) Truck ADT     6 %       (19) Bypass, Detour Length     5 mi       GEOMETRIC DATA     (48) Length of Maximum Span     130 ft       (49) Structure Length     340 ft       (50) Curb or Sidewalk Width     12       Left     2 ft       Right     5.8 ft       (51) Bridge Roadway Width Curb to Curb     28.6 ft       (52) Deck Width Out to Out     38.7 ft       (32) Approach Roadway Width (W/Shoulders)     30 ft       (33) Bridge Median     0 - No median       (34) Skew     45 Deg       (55) Min Lat Underclear RT     0 ft       (56) Min Lat Underclear RT     0 ft       (55) Min Lat Underclear RT     0 ft       (38) Navigation Control     0 - No navigation control on w       (111) Pier Protection     0 ft	(27) Year Built	1954
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On   2     Under   0     (29) Average Daily Traffic   1000     (30) Year of ADT   2018     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   340 ft     Left   2 ft     Right   5.8 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear RT   0 ft     Ref:   (55) Min Lat Underclear RT   0 ft     (56) Min Lat Underclear LT   0 ft     NAVIGATION DATA   (38) Navigation Control   0 - No navigation control on w     (111) Pier Protection   0 ft   (116)	Under	
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(30) Year of ADT   2018     (109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width		
(109) Truck ADT   6 %     (19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width	(29) Average Daily Traffic	
(19) Bypass, Detour Length   5 mi     GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   340 ft     Left   2 ft     Right   5.8 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (54) Min Vert Underclear RT   0 ft     Ref:		
GEOMETRIC DATA     (48) Length of Maximum Span   130 ft     (49) Structure Length   340 ft     (50) Curb or Sidewalk Width   16     Left   2 ft     Right   5.8 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     (56) Min Lat Underclear LT   0 ft     Navigation Control   0 - No navigation control on w     (111) Pier Protection   0 - No navigation control on w     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft		
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(49) Structure Length   340 ft     (50) Curb or Sidewalk Width   Left   2 ft     Right   5.8 ft   5.8 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     (38) Navigation Control   0 - No navigation control on w     (111) Pier Protection   0 - No navigation control on w     (111) Pier Protection   0 ft     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft		
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Right   5.8 ft     (51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     Ref:   0 ft     (56) Min Lat Underclear LT   0 ft     Navigation Control   0 - No navigation control on w     (111) Pier Protection   (39) Navigation Vertical Clearance     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft	(50) Curb or Sidewalk Width	
(51) Bridge Roadway Width Curb to Curb   28.6 ft     (52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     Navigation Control   0 - No navigation control on w     (111) Pier Protection   0 - No navigation vertical Clearance     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft		
(52) Deck Width Out to Out   38.7 ft     (32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     Ref:   0 ft     (38) Navigation Control   0 - No navigation control on w     (111) Pier Protection   0 - No navigation vertical Clearance     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft	(51) Pridge Beedway Width Curb to Cu	
(32) Approach Roadway Width (W/Shoulders)   30 ft     (33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     (56) Min Lat Underclear LT   0 ft     (38) Navigation Control   0 - No navigation control on w     (111) Pier Protection   0     (39) Navigation Vertical Clearance   0 ft     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft	(52) Dock Width Out to Out	20.0 TL 20.7 <del>E</del>
(33) Bridge Median   0 - No median     (34) Skew   45 Deg     (35) Structure Flared   0 - No flare     (10) Inventory Route Min Vert Clear   99.99 ft     (47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     Ref:   0 ft     (38) Navigation Control   0 - No navigation control on w     (111) Pier Protection   0     (39) Navigation Vertical Clearance   0 ft     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft		
(34) Skew     45 Deg       (35) Structure Flared     0 - No flare       (10) Inventory Route Min Vert Clear     99.99 ft       (47) Inventory Route Total Horiz Clear     28.6 ft       (53) Min Vert Clear Over Bridge Rdwy     99.99 ft       (54) Min Vert Underclear     0 ft       Ref:     0 ft       (55) Min Lat Underclear RT     0 ft       Ref:     0       (38) Navigation Control     0 - No navigation control on w       (111) Pier Protection     0       (39) Navigation Vertical Clearance     0 ft       (116) Vert-Lift Bridge Nav Min Vert Clear     0 ft		
(35) Structure Flared     0 - No flare       (10) Inventory Route Min Vert Clear     99.99 ft       (47) Inventory Route Total Horiz Clear     28.6 ft       (53) Min Vert Clear Over Bridge Rdwy     99.99 ft       (54) Min Vert Underclear     0 ft       Ref:     0 ft       (55) Min Lat Underclear RT     0 ft       Ref:     0 ft       (38) Navigation Control     0 - No navigation control on w       (111) Pier Protection     (39) Navigation Vertical Clearance     0 ft       (116) Vert-Lift Bridge Nav Min Vert Clear     0 ft		
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(47) Inventory Route Total Horiz Clear   28.6 ft     (53) Min Vert Clear Over Bridge Rdwy   99.99 ft     (54) Min Vert Underclear   0 ft     Ref:   0 ft     (55) Min Lat Underclear RT   0 ft     Ref:   0 ft     (56) Min Lat Underclear LT   0 ft     Navigation Control   0 - No navigation control on w     (111) Pier Protection   (39) Navigation Vertical Clearance   0 ft     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft		
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(111) Pier Protection     (39) Navigation Vertical Clearance   0 ft     (116) Vert-Lift Bridge Nav Min Vert Clear   0 ft		
(39) Navigation Vertical Clearance 0 ft   (116) Vert-Lift Bridge Nav Min Vert Clear 0 ft		
(116) Vert-Lift Bridge Nav Min Vert Clear 0 ft		0 ft
	<u> </u>	

CLASSIF	ICATION
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	2 1149 114110
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
COND	
(58) Deck	4
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	8
(62) Culverts	0
LOAD RATING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	2
(64) Operating Rating	Z
Type	2 - Allowable Stress(AS)
Rating	49
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	2
Rating	
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPR	
(67) Structural Evaluation	5
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	8 - Bridge foundations determined t
PROPOSED IM	
(75) Type of Work	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	
(94) Bridge Improvement Cost (Multip	ly value by 1000) \$ 4605
(94) Bridge Improvement Cost (Multip (95) Roadway Improvement Cost (Mu	
(95) Roadway Improvement Cost (Mu	Itiply value by 1000) \$50
(95) Roadway Improvement Cost (Mu (96) Total Project Cost (Multiply value	tiply value by 1000) \$ 50 by 1000) \$ 4655
(95) Roadway Improvement Cost (Mu (96) Total Project Cost (Multiply value (97) Year of Improvement Cost Estima	tiply value by 1000)     \$ 50       by 1000)     \$ 4655       ate     2020
(95) Roadway Improvement Cost (Mu (96) Total Project Cost (Multiply value (97) Year of Improvement Cost Estima (114) Future ADT	tiply value by 1000) \$ 50 by 1000) \$ 4655 ate 2020 1050
(95) Roadway Improvement Cost (Mu (96) Total Project Cost (Multiply value (97) Year of Improvement Cost Estima	tiply value by 1000)     \$ 50       by 1000)     \$ 4655       ate     2020       1050     2028

INSPECT	IONS *		
(90) Inspection Date			04/25/2023
(91) Frequency			12
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	Yes	24	04/25/2023
B: Underwater Inspection	No		
C: Other Special Inspection			

\* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.



Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	13159	0	6581	5263	1315
1080	Delamination/Spall/Patched Area	SF	6578	0	0	5263	1315
1130	Cracking (RC and Other)	SF	6581	0	6581	0	0
305	Assembly Joint without Seal	LF	77	0	77	0	0
2370	Metal Deterioration or Damage	LF	77	0	77	0	0
330	Metal Bridge Railing	LF	680	0	272	204	204
1000	Corrosion	LF	680	0	272	204	204
804	Concrete Fascia	LF	680	644	0	36	0
1080	Delamination/Spall/Patched Area	LF	36	0	0	36	0

58 - Deck (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour)

Large spalled areas and delams throughout with many areas penetrating up to and beyond the second layer of reinforcing.

### A21 - Deck Wearing Surface Condition (3 - Satisfactory)

Scattered transverse and longitudinal cracking w/ separation and some small voids

#### A24 - Deck Curb Condition (2 - Good)

Scattered map cracking w/ some minor separation.

#### A25 - Deck Sidewalk Condition (3 - Good)

Scattered map cracking w/ some minor separation

#### A28 - Deck Rail Condition (5 - Poor)

Deep pitting and advanced section loss around the tube steel at the connections to the posts w/ perforations and some detached members along the bottom rail.

#### A31 - Deck Post Condition (5 - Poor)

Deep pitting w/ some varying sized perforations in the webs surrounding the rail connections. Large slotted perforations found in the web along the lower fascia connections of the posts as well.

#### A34 - Deck Joint Condition (3 - Satisfactory)

Welded plate steel now covers most of the joint w/ minor rust staining and pitting throughout.

#### A36 - Deck Joint Trough Condition (5 - Poor)

Troughs failed a long time ago and no longer exist so runoff is allowed to fall onto the elements below.

#### A38 - Deck Drain Condition (5 - Poor)

Many of the ends have rotted out with one upstream drain near the abutment 1 end having over half of the section gone.

## A39 - Deck Fascia Condition (3 - Satisfactory)

Scattered cracking w/ some small spalls and delams throughout.

# APPROACH

#### 72 - Approach Roadway Alignment (8 - Equal to present desirable criteria)

#### A13 - Approach Rail Condition (3 - Satisfactory)

Scattered minor bending throughout w/ scrape marks and minor rust staining.

#### A16 - Approach Post Condition (3 - Satisfactory)

AGENCY OF TRANSPORTATION

Route VT100 / Structure #00025 / (Fracture Critical, Routine, Servi-Lift) VT 00100 ML over DEERFIELD RIVER Team Lead: Justin White, Inspection Date: 04/25/2023

Check marks and minor splitting throughout with some areas of minor rot.



## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	660	330	198	132	0
1000	Corrosion	LF	330	0	198	132	0
515	Steel Protective Coating	SF	10780	0	6468	3234	1078
3420	Peeling/Bubbling/Cracking	LF	10780	0	6468	3234	1078
113	Steel Stringer	LF	1980	990	732	198	60
1000	Corrosion	LF	990	0	732	198	60
515	Steel Protective Coating	SF	7536	3768	1508	1507	753
3420	Peeling/Bubbling/Cracking	LF	3768	0	1508	1507	753
152	Steel Floor Beam	LF	960	720	144	96	0
1000	Corrosion	LF	240	0	144	96	0
515	Steel Protective Coating	SF	5643	3668	564	847	564
3420	Peeling/Bubbling/Cracking	LF	1975	0	564	847	564
311	Movable Bearing	EA	6	0	2	4	0
1000	Corrosion	EA	6	0	2	4	0
313	Fixed Bearing	EA	2	0	2	0	0
1000	Corrosion	EA	2	0	2	0	0

**59 - Superstructure** (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Riveted Girders have scattered areas of paint peel w/ exposed primer and minor rust staining/scaling. Areas along the outer edges of the flanges have pack rust inbetween the bolted/riveted plates with minor bending where saturation from the soffit above affects the beams. The beam ends at the abutments have heavy rust scale w/ minor section loss.

## A55 - Lateral Bracing Condition (2 - Good)

Areas of paint peel with exposed primer and small areas of rust staining/scaling in the ends.

#### A56 - Floor Beams Condition (4 - Satisfactory)

Beam ends have small areas of rust scale w/ deep pitting and minor section loss in the webs. The floor beams at the abutment ends have heavy rust scale throughout w/ moderate section loss, areas of section loss in the flanges are significant with minimal section remaining. The angled plate brackets of the floor beam extensions in the downstream ends of the abutment floor beams have 6"+/- cracks. The upstream floorbeam extension at abutment 2 has heavy rust scale extending down below the utility pipe with moderate section loss in the web, and minimal section remaining in the top flange.

#### A58 - Stringer Condition (5 - Poor)

The stringers have heavy rust scale at the abutment ends w/ small slotted perforations (1"- 3") in the webs in many areas. The upstream stringers at abutment 2 have extensive section loss. The exterior stringer has a 47" slotted perforation and 2"+/- of depth, and the first interior stringer has much of the beam end gone w/ settlement, the length of the perforation measuring 46", and what remains of the beam end now resting on the second floor beam. The upstream stringer has heavy rust scale with moderate to heavy section loss in the bottom flange at the floor beam seats. The upstream stringer at floorbeam 16 (from abutment 1) has deep pitting w/ 1/4" of section loss in the lower area of the web and a 3" perforation in the exterior of the bottom flange.

Route VT100 /



Structure #00025 / (Fracture Critical, Routine, Servi-Lift)

VT 00100 ML over DEERFIELD RIVER

Team Lead: Justin White, Inspection Date: 04/25/2023

Heavy rust scale w/ minor to moderate section loss at the abutments. Pier bearings are in good condition.



# Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	4	0	4	0	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
210	Reinforced Concrete Pier Wall	LF	53	48	5	0	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
215	Reinforced Concrete Abutment	LF	109	0	80	29	0
1080	Delamination/Spall/Patched Area	LF	105	0	78	27	0
1130	Cracking (RC and Other)	LF	4	0	2	2	0
234	Reinforced Concrete Pier Cap	LF	109	87	22	0	0
1130	Cracking (RC and Other)	LF	22	0	22	0	0
800	Reinforced Concrete Wing/Retaining Wall	EA	2	1	0	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0

### 60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Abutment 1 has map cracks scattered throughout w/ areas of light staining. The bridge seat has scattered surface spalling w/ a large voided area near the upstream bearing.

Abutment 2 has scattered small spalls throughout with small voids and exposed reinforcing. No new changes were found in the sustained full height vertical settlement crack near the upstream end.

## A71 - Abutment End Walls Condition (5 - Fair)

Large areas of voided spalling below the joints with heavy saturation, scaling, and exposed reinforcing. The abutment 2 wall has scattered small spalls throughout w/ small voids and exposed reinforcing.

## A77 - Retaining/Wingwall Condition (3 - Good)

Map cracks scattered throughout w/ areas of light to moderate saturation. The abutment 2 walls have scattered areas w/ efflorescence and rust staining.

## A81 - Pier Seat/Cap Condition (3 - Good)

Map cracking in the ends w/ light staining and some minor to moderate saturation.

## A83 - Pier Shaft Condition (3 - Good)

The pier 1 wall is in good condition. Pier 2 wall has a full height vertical shrinkage crack w/ minor separation.

## A85 - Pier Columns Condition (3 - Good)

Map cracking w/ light staining, scattered small areas of efflorescence and rust staining. The fascia ends have small lineal spalls w/ scaling and exposed reinforcing found in the pier 2 ends.

#### A86 - Pier Footings Condition (3 - Good)

Minor abrasion/deterioration

# CHANNEL

**61 - Channel Condition** (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

# **GENERAL OBSERVATION**

This structure should be considered for an extensive rehabilitation project or replacement, see maintenance report.



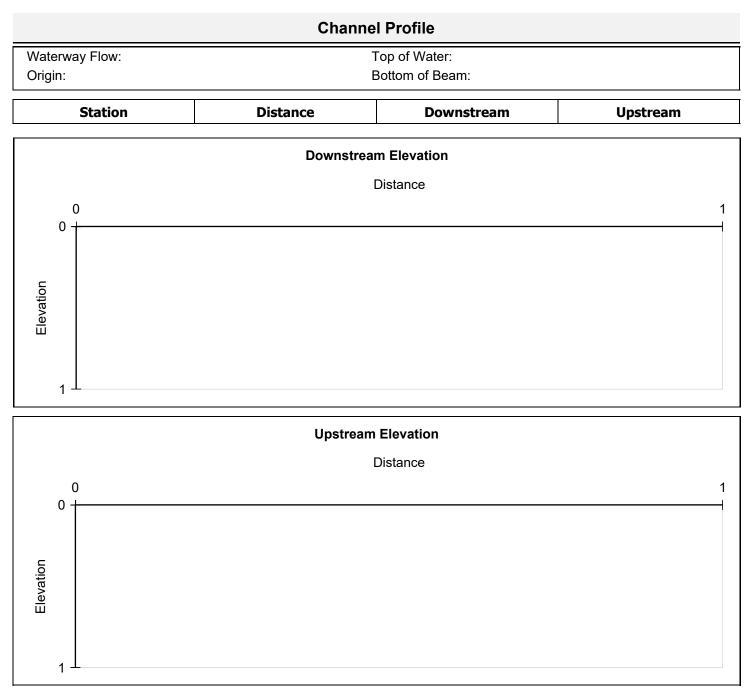
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313	Fixed Bearing	EA	2	0	2	0	0
1000	Corrosion	EA	2	0	2	0	0



Team Lead: Justin White, Inspection Date: 04/25/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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1000	Corrosion	LF	680	0	272	204	204
800	Reinforced Concrete Wing/Retaining Wall	EA	2	1	0	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
804	Concrete Fascia	LF	680	644	0	36	0
1080	Delamination/Spall/Patched Area	LF	36	0	0	36	0









North approach



South approach



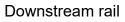


Downstream rail

Deck









Section loss upstream rail





Guardrail posts

Joint 2





Joint 1



Joint 1





Downstream fascia/Sidewalk soffit

Sidewalk





Upstream fascia



Span 1





Span 2

Span 3





Abutment 1 floor beam and stringer ends



Abutment 1 downstream floor beam extension



Abutment 2 floor beam and stringer ends

Abutment 2 downstream floor beam extension





Abutment 2 upstream floor beam extension



Upstream interior stringer over abutment 2



Upstream stringer over abutment 2



Nail/Screw laminated timber stringers (repair) over abutment 2





Upstream stringer at floor beam 16



Girder flange





Girder flange

Bearing abutment 2





Abutment 2



Vertical crack abutment 2





NE wing

Pier 2





Pier 1



Abutment 1





Downstream channel

Upstream channel



## **Maintenance Needs**

Date Reported:	06/02/2021		
Priority:	4 - Maintenance Finding - Next Inspection Cycle	Status:	Open
Type of Work:	3 - General - Replacement project	Component:	General

### **Deficiency Description**

The deck continues to develop large spalled areas that penetrate up to and beyond the second layer of reinforcing with exposed rotted strands. The abutment backwalls have deep voided spalls that undermine the joints with exposed reinforcing and heavy scaling. The stringer beam ends continue to deteriorate with varying size perforations throughout with the upstream stringers at abutment 2 being the worst with 3'+/- of the ends having basically failed.

### Remarks

This structure should be considered for an extensive rehabilitation project or replacement.







Upstream interior stringer over abutment 2