

**ROUTINE AND FRACTURE CRITICAL
BRIDGE INSPECTION REPORT**



Maine DOT CONTRACT NO. 2011120800000002637

**BRIDGE # 2019-ANDROSCOGGIN RIVER BRIDGE
NORTH MAIN STREET OVER ANDROSCOGGIN RIVER
PERU, OXFORD COUNTY
MAINE DOT REGION 3 (WESTERN)**

**Start Date of Inspection: 08/09/2012
Finish Date of Inspection: 08/14/2012**

**Prepared For
Maine Department of
Transportation
Bridge Maintenance Division**



Prepared By:

**PARSONS
BRINCKERHOFF**

**Parsons Brinckerhoff, Inc.
650 Elm Street
Manchester, NH 03101**

Table of Contents

Item	Page
Location Map	1
I. Executive Summary	2
II. Introduction	8
Bridge Description	8
Inspection Access.....	8
III. Fracture Critical Members and Fatigue Prone Details	10
IV. Inspection Findings	11
Deck Elements	11
Superstructure.....	13
Substructure	18
Channel.....	19
Miscellaneous.....	19
V. Conclusions and Recommendations	20
Appendix A – Inspection Photographs.....	A-1
Appendix B – Field Inspection Notes.....	B-1
Appendix C – Structure Inventory & Appraisal Sheet Redlines.....	C-1

LOCATION MAP

(Located: Peru, Maine)

**Bridge # 2019 – N. Main Street
Peru, Maine – Oxford County**

Google



PERU, OXFORD COUNTY, MAINE

I. Executive Summary

The focus of this report is the presentation of the routine and fracture critical inspection findings for Maine DOT Bridge No. 2019 (Androscoggin River Bridge) carrying North Main over the Androscoggin River in Peru, Oxford County, Maine.

The bridge was inspected on August 9th, 10th, 13th and 14th, 2012. No underwater inspection was performed. The routine inspection included examination of the gusset plates to determine any section loss and check the straightness of plates. Since the gusset plate thicknesses and plate dimensions for Bridge No. 2019 were not included in the original construction and/or shop drawings made available by Maine DOT, detailed field measurements of the gusset plates were required to be collected as part of the inspection.

A. Significant Findings

1. The transverse construction joint above FB7 in Span 3 has minor spalling of the edges of the joint for the full width of the northbound lane (Photo 5). Above FB4 in Span 3 the transverse construction joint has a one foot square spall patched with bituminous material along the west curb (Photo 6). Above FB1 in Span 3 the transverse construction joint has three small spalls patched with bituminous material (Photo 7).

Recommendation: Perform spall repairs to the monolithic concrete wearing surface at the three transverse construction joint locations in Span 3.

2. The underside of deck has numerous spalls with exposed reinforcing which are typically concentrated along the inboard edges of S3 and S6 (Photos 16 & 18). Additional spalls in all stringer bays are present along the floorbeam haunch zones, especially over the end floorbeams (Photos 10 & 19).

Recommendation: Perform concrete spall repairs to the underside of deck to remove and replace unsound concrete.

3. There is no deck joint at the south abutment and the end of the bridge deck has been removed and replaced with bituminous pavement. The bituminous pavement patch is deteriorated and settled in large areas with extensive successive patches placed, resulting in a rough riding surface over the 6-8 foot length approaching the end of the concrete bridge deck (Photo 26). Transverse cracks with heavy efflorescence were observed in the underside of deck above FB8 in Span 3 in all bays between S3 and S6 (Photo 20).

Recommendation: Perform full depth deck replacement over a five foot length of the deck at the south abutment. Reconstruct the bituminous approach pavement over a length of 10 feet at the south end of the bridge by removing and replacing the pavement full-depth to restore a smooth transition onto the bridge deck.

4. There are substandard steel bridge traffic railings connected to the inner faces of the truss verticals and diagonals along the roadway truss line (Photos 3 & 4). The

traffic railings have impact damage at several locations, damaged or missing bolts at several locations, and are generally in poor condition with missing paint and active corrosion throughout. The steel bar lattice bicycle/pedestrian railing at the outboard edge of the sidewalk is also substandard (Photos 3 & 4).

Recommendation: Replace the steel bridge and sidewalk bicycle/pedestrian railings with new railings which meet current safety standards and criteria.

5. The east sidewalk curb face has a wide horizontal crack at the south end of Span 3 which extends along mid-height of the curb for nearly half of the length of the span (Photo 24). The east sidewalk curb face in Span 2 has a long spall with exposed reinforcing extending from L4 to L6 (Photo 25). The east sidewalk curb face has a wide horizontal crack in Span 2 which extends the full length of the panel between L6 and L7 along mid-height of the curb (Photo 9). The west curb has a 2 foot long severe spall with exposed reinforcing next to the south abutment. There are small spalls with exposed reinforcing in the west curb at both sides of the Pier 2 deck joint. There are small spalls with exposed reinforcing in both curbs at both sides of the Pier 1 deck joint.

Recommendation: Perform spall repairs to the east curb at the south end of Span 3, in Span 2 between L4 to L7. Perform spall repair to the west curb at the south abutment and to both curbs within 3 feet either side of the Pier 1 and 2 deck joints.

6. The sidewalk sliding plate joint at Pier 2 projects upward $\frac{3}{4}$ to one inch at the plate corner, creating a tripping hazard (Photo 28). A similar condition was observed at the Pier 1 sidewalk sliding plate joint.

Recommendation: Replace the sidewalk sliding plate joints at Pier 1 and 2.

7. The Span 3 L1-L2 sidewalk truss has up to 8 inch deep debris accumulations between the side channels on the top of the L1 lower tie plate (Photo 31). The Span 3 sidewalk truss at L2 has 9-12 inch deep debris accumulations between the side channels on the lower lateral connection plate (Photo 32). Similar heavy debris accumulations were observed at L6 and L7 in Span 3 with 12 inch and 8 inch depths, respectively.

Recommendation: High pressure wash the below-deck portions of the sidewalk truss focusing on the lower chord panel points to remove the heavy debris accumulations. High pressure wash the sidewalk truss lower lateral connection plates and the bridge seats to remove the moisture-laden debris deposits.

8. At L5 in the Span 1 roadway truss the vertical U5-L5 has sustained impact damage at the railing level with localized twisting of the member over a three foot length and a permanent bend in the flange tip (Photo 42). At L3 in the Span 3 sidewalk truss the vertical U3-L3 has sustained impact damage over a ten foot height of the west flange at sidewalk level with up to 3 inches of lateral displacement in the longitudinal direction and up to 1 1/2 inches of lateral displacement in the transverse direction (Photo 43). At L6 in the Span 1 roadway truss the vertical U6-L6 has sustained impact damage and a permanent bend in the flange tip (Photo 45). At L2 in the Span 2 roadway truss the vertical U2-L2 has sustained

impact damage and a permanent bend in the flange tip of 1 ½ inches over a length of two feet (Photo 46).

Recommendation: Since the truss verticals experience load reversal and are required to carry compressive dead loads and compressive live loads under certain live loading conditions, the impact damage could decrease the capacity of the member by reducing the compression buckling resistance to a level at which this mode of failure would govern compared to strength. The capacity of these members will be evaluated as part of the load rating to determine the need for repairs.

9. Impact damage to the Span 2 roadway truss L5-U6 diagonal has resulted in a notch in the flange tip which is approximately 2 inches deep (Photo 44). The damage at this location has been considered as section loss since the member is a tension diagonal. Impact damage to the Span 3 sidewalk truss U3-L4 diagonal has resulted in a notch in the flange tip which is approximately 1 inch deep.

Recommendation: Depending on the results from the load rating analyses, consider adding web plates to these two diagonals to restore the section loss due to the impact damage notches. In any case, notches in FCM tension members are significant FSD's. Hence, the notches should be removed and all sharp edges should be ground smooth.

10. Field-welded plates have been added to the inboard flanges of many of the verticals just below the existing lower transverse sway frame members to cover open holes of the original sway frame connections (Photo 47). These welded plates are FSD's in FCM's which occur in numerous verticals in both truss lines in all 3 spans. A small tack weld was identified in the Span 3 roadway truss at L1 between the lower chord and vertical at a fill plate interface.

Recommendation: Re-inspect all field weld locations in the vertical FCM's during future biennial bridge inspection cycles. Check for any indications of fatigue cracking initiation as part of the regularly scheduled bridge inspection cycles.

11. Impact damage to the sway frame lower transverse member along with lateral displacement of 6 inches in the horizontal plane was observed at Span 3 U3 (Photo 54). This sway frame also has a slight bend in the sway frame diagonal. Impact damage to the sway frame lower transverse member along with twisting and local vertical bends in the edges of the horizontal legs of the angle over both the northbound and southbound lanes was observed at Span 3 U4 (Photo 55). Impact damage to the sway frame lower transverse member along with lateral displacement in the horizontal plane of more than 3 inches was observed at Span 3 U6 (Photo 56). This sway frame also has a slight bend in the sway frame diagonal. Other locations of sway frame lower transverse member impact damage were observed, such as at Span 1 U2 over the southbound lane (Photo 57).

Recommendation: Replace the sway frames at the four specified locations. Following completion of the sway frame replacement, the proper alignment and overall geometry of the affected panel points should be verified.

12. The lower lateral bracing angle in Span 2 connecting the FB1 sidewalk truss and FB2 roadway truss is displaced laterally in the horizontal plane by 4 inches (Photo 50). The lower lateral bracing angle in Span 2 connecting FB4 sidewalk truss and FB5 roadway truss is displaced laterally in the horizontal plane by 6 inches (Photo 59). The lower lateral bracing angle in Span 3 connecting the FB1 sidewalk truss and FB2 roadway truss is displaced laterally in the horizontal plane by 6 inches. The lower lateral bracing angle in Span 3 connecting the FB2 sidewalk truss and FB3 roadway truss is displaced laterally in the horizontal plane by 4 inches. The lower lateral bracing angle in Span 3 connecting the FB3 sidewalk truss and FB4 roadway truss is displaced laterally in the horizontal plane by 9 inches (Photo 60). Vertical displacement of approximately six inches was observed in the lower lateral bracing angle in Span 3 connecting the FB5 sidewalk truss and FB6 roadway truss.

Recommendation: Replace the lower lateral bracing angle at the six specified locations. Following completion of the lower lateral bracing angle replacement, the proper alignment and overall geometry of the affected panel points should be verified.

13. The Span 1 roadway truss expansion bearing at Pier 1 has debris accumulations filling the slot for the southwest anchor bolt, inhibiting free thermal movements (Photo 61). The south abutment expansion bearings have heavy 3-4 inch deep debris accumulations around the bearing and also completely filling the expansion slots and inhibiting free thermal movements (Photo 65).

Recommendation: Remove the debris accumulations from around the south abutment and Pier 1 expansion bearings as well as from the expansion slots to restore free thermal movements.

14. The bearing pin nuts are completely missing on the east faces of both truss line lower chords at the Span 2 expansion bearings on Pier 2 (Photo 62). The Span 3 sidewalk truss fixed bearing at Pier 2 has a cracked bearing pin nut on the lower chord west face and the lower half of the nut is missing (Photo 63). The bearing pin nut on the west side of the south abutment sidewalk truss bearing is cracked. The bearing pin nut on the east side of the south abutment roadway truss bearing is cracked and the lower half of the nut has fallen away completely from the face of the chord (Photo 66).

Recommendation: Replace the bearing pin nuts at the five specified locations.

15. The Span 2 sidewalk truss expansion bearing is missing the single west side anchor bolt (Photo 63). The Span 2 roadway truss expansion bearing on Pier 2 is missing the southwest corner anchor bolt (Photo 64).

Recommendation: Core drill and grout new anchor bolts at the two specified locations.

16. The south abutment breastwall has fine to medium map cracking in the upper five feet, a wide vertical crack at the roadway centerline in the upper two-thirds of the height, and two medium cracks in the lower portion of the breastwall (Photo 67). The wide vertical crack in the breastwall at roadway centerline extends across the

bridge seat and continues upward over the full height of the backwall (Photo 49). The south abutment backwall has severe map cracking outboard of the roadway truss along with heavy spalling in the sloped top portion. The northeast wingwall has map cracking with efflorescence (Photo 68). The southeast wingwall is in fair condition with two spalls less than 2 SF each in size and a medium vertical crack extending from the top to the base (Photo 69). The southwest wingwall is in poor condition with a large deep spall continuous along the top for full length of the wingwall (Photo 70).

Recommendation: Perform epoxy crack injection to repair the cracks in the south abutment and the three specified wingwalls. Perform spall repairs to remove and replace unsound concrete at the two spalls in the southeast wingwall as well as at the large spall in the southwest wingwall.

17. The west end of Pier 2 has a zone of spalls and scaling along the full height of the icebreaker edge (Photo 72).

Recommendation: Perform spall repairs to remove and replace unsound concrete at the Pier 2 icebreaker edge.

18. The approach guiderails at the southwest and southeast corners are substandard due to lack of stiffening in the transition zones and lack of proper attachments to the bridge railings (Photo 73). The approach guiderail at the northeast corner is also substandard due to lack of stiffening in the transition zone and lack of proper attachment to the bridge railing (Photo 75). The northwest bridge corner is missing guiderail entirely (Photo 75).

Recommendation: Replace the existing guiderails within 25 feet of each corner of the bridge with properly stiffened guiderail conforming to current standards. Install missing guiderail in the northwest corner

B. Condition Summary

The results of the inspection indicate that the bridge is overall in fair condition.

The **deck** is in fair condition, rated a 5. The transverse construction joints above each floorbeam have spalling along the edges with previous bituminous or concrete patches. The underside of deck has numerous spalls with exposed reinforcing which are typically concentrated along the inboard edges of S3 and S6. The east sidewalk curb face is cracked and deteriorated with spalls over nearly 150 feet of the bridge length. A few patches are present at the deck joints over both piers. A large bituminous patch is present at the south abutment at the end of the concrete bridge deck.

The **superstructure** is in poor condition, rated a 4. Approximately ten of the truss verticals and diagonals have sustained impact damage with several exhibiting permanent twisting and displacement with bent flange edges or notches. End floorbeam paint conditions are poor within all three spans. Numerous lower lateral bracing angles have lateral displacement believed to result from impacts from floating debris during high water periods. Numerous sway frames have sustained impact damage with four locations

warranting replacement of the lower transverse sway frame members. Bearing pin nuts are cracked or completely missing at a total of five locations. Two bearings are each missing an anchor bolt.

The **substructure** is in fair condition, rated a 5. The south abutment contains a wide vertical crack in the breastwall which continues across the bridge seat and up into the backwall. Three of the wingwalls have cracks and spalls with exposed reinforcing. The west end of Pier 2 has spalls and scaling along the full height of the icebreaker edge.

II. Introduction

The focus of this report is the presentation of the routine and fracture critical inspection findings for Maine DOT Bridge No. 2019 (Androscoggin River Bridge) carrying North Main Street over the Androscoggin River in Peru, Oxford County, Maine.

The bridge was inspected on August 9th, 10th, 13th and 14th, 2012. The inspection team was comprised of Roger Stanley, P.E. (TL), Amy Campo, P.E. (ATL), and Kaon Lam (ATL).

In addition, as specified in the contract, red line markups of the previous Maine DOT Structure Inventory & Appraisal forms have been provided as separate attachments to this report.

Bridge Description

Bridge No. 2019 is a two-lane three span structure with an overall length of 574 feet. Each span consists of a riveted steel Parker through truss measuring 186'-6" from center to center of bearings (Photo on front cover of Report). The bridge was built in 1930 and currently carries two 11 foot wide traffic lanes along with a 5'-0" (+/-) clear sidewalk, located outboard of the east fascia truss along the downstream side. The total out to out width of the bridge roadway and sidewalk measures approximately 30 feet. The trusses are spaced at 24'- 6" center to center.

The substructure consists of two cast-in-place reinforced concrete abutments and two cast-in-place reinforced concrete piers. The two abutments are founded on rock and both piers are supported on piles. The bridge runs from north to south, carrying North Main Street over the Androscoggin River. For purposes of the inspection and Report documentation, plan north has been established to match the original construction plan orientation. The waterway flows downstream to the east.

Various repairs and modifications have been performed since the time of original construction according to plans provided by Maine DOT. Scupper locations have been slightly shifted as described in detail within the Deck Elements section of this report. Both abutments and both faces of both piers have been previously retrofitted with Dywidag post-tensioned concrete encasement repairs immediately below both truss bearings. The original sliding plate deck joints at both piers have been replaced with closed compression seal type deck joints. The lower transverse members at the portal bracing have been replaced with high strength bolted rolled (or welded) shapes at both ends of all three spans.

Inspection Access

The hands-on and visual Routine inspection was performed using an Underbridge Inspection Unit (UB-50) to inspect the underside of the deck, floorbeams, and lower chord members. A 33-foot aerial lift bucket truck was used to reach the upper portion of the truss

(above the deck), sway frames, and top chord lateral bracing members. The truss upper chords were inspected from the deck as well as from the aerial lift. The abutments and wingwalls were also inspected from the Underbridge Inspection Unit.

Prior to the inspection of the bridge, advanced notification to the appropriate authorities was required before performing any lane closures. Maine DOT provided flaggers to implement temporary single lane closures during this inspection.

Fracture Critical Members on this bridge are the tension members of the non-redundant trusses, such as lower chords and all verticals and diagonals except for the U4-L4 vertical and the L0-U1 and U7-L8 end posts which are non-FCM's. In addition, the bottom flange and portions of the floorbeam web that are in tension are also FCM's.

The general layout, framing and orientation for each of the three spans of the bridge may be viewed on the Fracture- Critical Member (FCM) diagram located in the following section of this Report. Numbering of spans, substructure units, and span panel points used for the inspection is from north to south. Numbering of truss panel points used for the inspection is in accordance with the FCM diagram with L0 corresponding to the north end of each span and L8 corresponding to the south end of each span. Stringer line designations were assigned looking ahead station from north to south and numbering from left to right. Following this convention, the two sidewalk stringers located outboard of the east truss are designated as S1 and S2, respectively. Stringers S3 to S6 are located between trusses, with S6 being the west fascia stringer.

Additional bridge data can be found in the Maine DOT Structure Inventory and Appraisal Sheet.

III. Fracture Critical Members and Fatigue-Prone Details

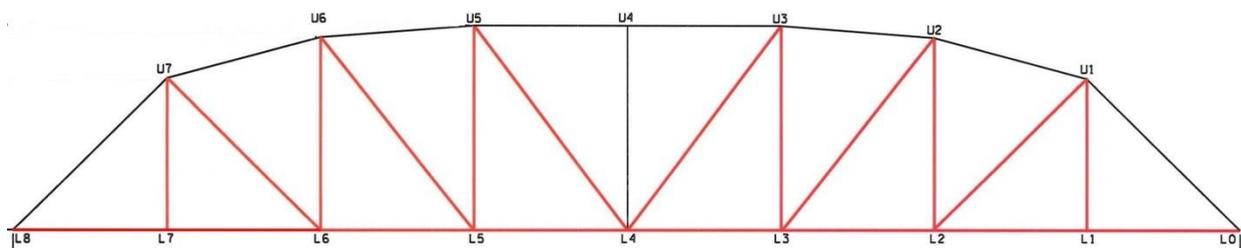
Fracture Critical Members on this bridge are the non-redundant tension members of the trusses along with the floorbeam bottom flange and portions of the floorbeam webs which experience tension loading. The riveted built up truss connections are classified as Fatigue Category D in accordance with AASHTO LRFD Bridge Design Specification, 4th Edition, Table 6.6.1.2.3-1.

Per the requirements of the National Bridge Inspection Standards found in Title 23 Part 650 Subpart C of the Code of Federal Regulations all FCMs were inspected hands-on from a distance no further than arms-length.

Field-welded plates have been added to the inboard flanges of many of the verticals just below the existing lower transverse sway frame members to cover open holes of the original sway frame connections. These welded plates are FSD's in FCM's which occur in numerous verticals in both truss lines in all 3 spans.

Depending on the length, orientation, and thickness of connected elements in these welds, these locations could represent a more severe fatigue category than Category D for the basic riveted built up truss connections. The bridge inspection scope did not include assessment of remaining fatigue life of the structure.

A diagram depicting the truss FCM members highlighted in red is included directly below.



Truss diagram showing Panel Point numbering system

Fracture Critical tension Members shown in **Bolded Red** linestyle (per original contract plan design loads)

IV. Inspection Findings

Deck Elements

The deck elements are in fair overall condition.

Deck & Wearing Surface: The cast-in-place concrete deck has an existing monolithic concrete wearing surface. The transverse construction joint above FB7 in Span 3 has minor spalling of the edges of the joint for the full width of the northbound lane (Photo 5). Above FB4 in Span 3 the transverse construction joint has a one foot square spall patched with bituminous material along the west curb (Photo 6). Above FB1 in Span 3 the transverse construction joint has three small spalls patched with bituminous material (Photo 7). Above FB7 in Span 2 the transverse construction joint has two spalls in the northbound lane measuring 1 to 2 SF in size, each patched with concrete (Photo 8). Above FB7 in Span 1 the transverse construction joint has a 4 SF spall in the northbound lane along the east curb, patched with concrete (Photo 9).

Underside of Deck: Three minor spalls in the underside of deck were noted in the floorbeam haunch zones of FB6 in Span 1 in various stringer bays (Photo 10). Approximately ten transverse cracks with efflorescence were observed in the underside of deck in Span 1 between FB7 and FB8 distributed in three different stringer bays (Photo 11). In Span 2 between FB1 and FB2 two transverse cracks with efflorescence were observed in the underside of the sidewalk slab. At the same location a longitudinal crack with efflorescence was noted along the horizontal construction joint between the sidewalk and the roadway deck slab (Photo 12). In Span 2 between FB3 and FB4 a longitudinal crack with efflorescence was observed between S3 and S4 located just inboard of the east curbline (Photo 13). In Span 2 between FB7 and FB8 four transverse cracks with efflorescence were noted between S5 and S6 (Photo 14).

A 2 foot square spall with exposed reinforcing was observed in Span 2 between FB5 and FB6 below the sidewalk in the outside vertical face of the curb along with efflorescence originating from the interface between the sidewalk to deck slab construction joint (Photo 15). A similar condition was observed in Span 3 between FB5 and FB6.

In Span 3 between FB0 and FB1 five spalls with exposed reinforcing were noted between S5 and S6 (Photo 16).

Patch repairs in the underside of deck were noted around the drainage downspouts at various locations.

Above FB0 in Span 2 all three stringer bays have been patched with repairs measuring 4 feet long by full width of the bay (Photo 17). Several transverse cracks with efflorescence were observed within 10 feet of the end floorbeam at this location.

On the north side of FB2 in Span 2, a 1 foot by 4 foot spall with exposed reinforcing was observed between S5 and S6. On the south side of FB2 in Span 2, a 4 foot by 6 foot concrete patch repair was observed between S5 and S6. In the same panel and

bay two spalls with exposed reinforcing measuring approximately 2 feet square each were observed near mid-panel and at FB3 (Photo 18).

Above FB8 in Span 2 a 1 foot by 2 foot spall was observed in the floorbeam haunch zone between S4 and S5 (Photo 19). At the same location two concrete patches were observed on either side of S5. A transverse crack with efflorescence is present in the patched area between S5 and S6. Two additional concrete patches were observed on either side of S5 above FB0 in Span 3.

In Span 3 above FB1 a spall with exposed reinforcing was observed between S4 and S5 and a wide transverse crack with efflorescence was noted between S3 and S4.

Transverse cracks with heavy efflorescence were observed above FB8 in Span 3 in all bays between S3 and S6 (Photo 20).

Bridge Railings: There are substandard steel bridge railings connected to the inner faces of the truss verticals and diagonals along the west truss line (Photos 3 & 4). The steel bar lattice bicycle/pedestrian railing at the outboard edge of the sidewalk is in fair condition (Photos 3 & 4).

The west traffic railing in Span 1 at L5 has a splice in both rails to repair previous impact damage to the attachments to the truss vertical which is rotated from the collision damage (Photo 21). Impact damage to the railing was observed in Span 3 at L5 (Photo 22). Similar conditions were observed at a few other locations in the railing, including Span 3 at the U1-L2 diagonal and between the Span 1 and Span end posts. At Span 1 the connection to the U2-L3 diagonal has impact damage and three damaged or missing bolts in the upper and lower rail attachments. A few missing bolts were observed at the connections of the railings to the attachment angles at verticals or diagonals (Photo 23).

Sidewalk & Curbs: The east sidewalk curb face has a wide horizontal crack at the south end of Span 3 which extends along mid-height of the curb for nearly half of the length of the span (Photo 24). The east sidewalk curb face in Span 2 has a long spall with exposed reinforcing extending from L4 to L6 (Photo 25). The east sidewalk curb face has a wide horizontal crack in Span 2 which extends the full length of the panel between L6 and L7 along mid-height of the curb (Photo 9).

The west curb has a 2 foot long severe spall with exposed reinforcing next to the south abutment. There are small spalls with exposed reinforcing in the west curb at both sides of the Pier 2 deck joint. There are small spalls with exposed reinforcing in both curb at both sides of the Pier 1 deck joint.

Joints: There is no deck joint at the south abutment and the end of the bridge deck has been removed and replaced with bituminous pavement. The bituminous pavement patch is deteriorated and settled in large areas with extensive successive patches placed, resulting in a rough riding surface over the 6-8 foot length approaching the end of the concrete bridge deck (Photo 26).

The deck joint at Pier 2 has minor spalling with bituminous patches and the joint opening varies along the length of the joint from $\frac{3}{4}$ inches to zero at the roadway centerline (Photo 27). The sidewalk sliding plate joint at Pier 2 projects upward $\frac{3}{4}$ to one inch at the plate corner, creating a tripping hazard (Photo 28). A similar condition was observed at the Pier 1 sidewalk sliding plate joint.

The deck joint at Pier 1 has minor spalling in the northbound lane and a one foot by 6 foot spall patched with concrete in the southbound lane (Photo 29).

Deck Drainage: Scuppers exist along both curblines in every other panel and are typically located midway between panel points. Outlets are all clear of debris and functioning properly. The original plans show curb face type scuppers and downspouts in line with the curbs located outboard of Stringers S3 and S6. However, since the as-inspected scuppers and downspouts are actually located within the roadway approximately six inches from the curb faces with downspouts inboard of S3 and S6, the scupper arrangement was apparently modified since original construction. Patch repairs in the underside of deck were noted around the drainage downspouts at various locations with timber formwork left in place, confirming that the scupper positions have been slightly shifted (Photo 14). The downspout pipes extend below the level of the deck and terminate immediately adjacent to the truss lower chords. However, the outlet ends of the drain pipes are typically situated above the underside of the lower chords, exposing the chords to runoff spray.

Superstructure

The superstructure steel elements are in poor condition.

Trusses: The **Upper Chord** members are in fair condition. The paint system is generally intact with minimal failures throughout the exterior and interior surfaces of the upper chords (Photo 30).

The horizontal exposure surfaces such as the top plate are in fair to satisfactory condition with respect to paint system condition.

The **Lower Chords** are in fair condition. The Span 3 L1-L2 sidewalk truss has up to 8 inch deep debris accumulations between the side channels on the top of the L1 lower tie plate (Photo 31). The Span 3 sidewalk truss at L2 has 9-12 inch deep debris accumulations between the side channels on the lower lateral connection plate (Photo 32). Similar heavy debris accumulations were observed at L6 and L7 in Span 3 with 12 inch and 8 inch depths, respectively. Active corrosion was observed in the lower chord bottom interior surfaces along with the lower portions of the vertical and gusset plates at sidewalk truss L6 in Span 3 (Photo 33).

Minor pack rust of the top and bottom splice plates with one inch vertical deformation was observed in the Span 3 roadway truss at the L3 lower chord splice (Photo 34).

A small tack weld was identified in the Span 3 roadway truss at L1 between the lower chord and vertical at a fill plate interface. Fusion to all three components was observed.

Vertical and Diagonal Members are in poor condition. The Span 3 sidewalk truss end post diagonal U7-L8 has sustained approximately six separate one-half inch deep scrapes and gouges in the flange edge due to vehicular impacts. Similar minor scrapes and gouges due to impact damage were observed in the end posts of both truss lines in all three spans. At the Span 1 L0-U1 sidewalk truss end post, a severed lacing bar due to section loss was observed (Photo 35).

At L3 in the Span 2 roadway truss the vertical and diagonal have sustained damage at 2 feet above the lower chord, which has caused localized twisting of the flanges over a one foot length in each member (Photo 36). The west flange of the diagonal U2-L3 is permanently deformed and bent inward by 2-1/2 inches (Photo 37). The west flange of the vertical U3-L3 is permanently deformed and bent outward by 1-1/2 inches (Photo 38). The most likely cause for this damage is large floating debris during a high water event, such as a trapped tree branch getting lodged between the two members.

Previously arrested section loss was observed to the lower end of the Span 2 roadway truss U7-L7 vertical. The vertical at this location has section loss on the east face of the flange up to 3/16 inch deep and 2 inches wide located approximately a foot above the top of the floorbeam (Photo 39). Section loss with active corrosion was observed to the lower end of the Span 2 roadway truss U6-L6 vertical. The vertical at this location has section loss on the east face of the flange up to 1/4 inch deep and 4 1/2 inches wide located approximately two feet above the top of the floorbeam (Photo 40). Section loss with active corrosion was observed to the lower end of the Span 2 roadway truss L5-U6 diagonal. The diagonal at this location has section loss on the east face of the flange up to 3/16 inch deep and 4 inches wide located approximately at top of curb level (Photo 41).

Active corrosion and minor paint loss was observed in the Span 3 roadway truss at the lower end of the L0-U1 end post. An area located immediately below U5 on the west face of the Span 3 sidewalk truss U5-L5 measuring approximately 18 inches tall was observed to have failed paint and active corrosion for full width of the member flange.

At L5 in the Span 1 roadway truss the vertical U5-L5 has sustained impact damage at the railing level with localized twisting of the member over a three foot length and a permanent bend in the flange tip (Photo 42). This location warrants repairs in order to restore capability for carrying compressive loads without buckling.

At L3 in the Span 3 sidewalk truss the vertical U3-L3 has sustained impact damage over a ten foot height of the west flange at sidewalk level with up to 3 inches of lateral displacement in the longitudinal direction and up to 1 1/2 inches of lateral displacement in the transverse direction (Photo 43). The east flange has up to 1 inch lateral displacement in the longitudinal direction and up to 1 1/2 inches of lateral displacement in the transverse direction. This location warrants repairs in order to restore capability

for carrying compressive loads without buckling.

Impact damage to the Span 2 roadway truss L5-U6 diagonal has resulted in a notch in the flange tip which is approximately 2 inches deep (Photo 44). The damage at this location has been considered as section loss since the member is a tension diagonal. Impact damage to the Span 3 sidewalk truss U3-L4 diagonal has resulted in a notch in the flange tip which is approximately 1 inch deep. The damage at this location has been considered as section loss since the member is a tension diagonal.

At L6 in the Span 1 roadway truss the vertical U6-L6 has sustained impact damage and a permanent bend in the flange tip (Photo 45). At L2 in the Span 2 roadway truss the vertical U2-L2 has sustained impact damage and a permanent bend in the flange tip of 1 ½ inches over a length of two feet (Photo 46). These locations warrant repairs in order to restore capability for carrying compressive loads without experiencing member buckling.

The Span 2 roadway truss diagonal U3-L4 has sustained minor impact damage at the railing level where the flange is bent 1 ½ inches over a length of just over a foot. The Span 3 sidewalk truss diagonal L4-U5 has sustained minor impact damage at 28 inches above the sidewalk level where the flange is bent ¾ inches over a length of a foot. These members are tension diagonals which do not experience load reversal into compression. Therefore no member repairs are deemed necessary at these locations.

Minor scrape marks from impact damage were noted in the Span 3 roadway truss end post U7-L8 as well as in the U7-L7 and U5-L5 verticals. Various other verticals and diagonals exhibit scrape marks from traffic impact, such as at the Span 1 roadway truss U1-L2 diagonal and at the Span 3 U4-L4 vertical.

Field-welded plates have been added to the inboard flanges of many of the verticals just below the existing lower transverse sway frame members to cover open holes of the original sway frame connections (Photo 47). These welded plates are FSD's in FCM's which occur in numerous verticals in both truss lines in all 3 spans.

The Span 2 roadway truss diagonal U1-L2 is missing a single rivet in the east face L2 gusset, leaving 19 of the original total of 20 rivets to resist the member loads (Photo 48).

Floorbeams: The Span 2 FB8 and Span 3 FB0 end floorbeams at Pier 2 have failed paint areas on the webs and bottom flanges with active corrosion full length (Photo 19). In Span 3 the north face of FB1 has poor paint condition on the web between S3 and S4. The Span 3 FB8 end floorbeam has failed paint on the web and active corrosion (Photo 49).

Stringers: Stringers are generally in satisfactory condition with few visible defects (Photo 50). Stringers S2, S3, and S6 have typical areas along the top flange edges with minor paint loss and limited localized active corrosion along the underside of the deck (Photos 15, 16, and 18). Similar minor paint loss to the top flanges was also observed at

the ends of all stringers within 5 feet of the end floorbeams at all deck joints (Photos 11, 14, & 17).

Secondary Members: Top Chord Lateral Bracing- The lower transverse members at the portal bracing have been replaced with high strength bolted rolled shapes at both ends of all three spans (Photo 51). The height of the portal bracing has been raised by shifting the new lower transverse members higher up the end diagonals by approximately 2 feet. High strength bolted repairs were observed in various sway frame connections including the diagonal intersection connection plate at Span 3 U3 (Photo 52).

Impact damage to the portal bracing at the south end of Span 3 over the northbound lane was observed (Photo 53). Minor impact damage to the portal bracing at the south end of Span 1 over the centerline roadway was observed.

Impact damage to the sway frame lower transverse member along with lateral displacement of 6 inches in the horizontal plane was observed at Span 3 U3 (Photo 54). This sway frame also has a slight bend in the sway frame diagonal. Impact damage to the sway frame lower transverse member along with twisting and local vertical bends in the edges of the horizontal legs of the angle over both the northbound and southbound lanes was observed at Span 3 U4 (Photo 55). Impact damage to the sway frame lower transverse member along with lateral displacement in the horizontal plane of more than 3 inches was observed at Span 3 U6 (Photo 56). This sway frame also has a slight bend in the sway frame diagonal. A bend in the upper east sway frame diagonal was noted at Span U1. Other locations of sway frame lower transverse member impact damage were observed, such as at Span 1 U2 over the southbound lane (Photo 57) and at Span 1 U3.

Minor impact damage to the sway frame lower transverse member consisting of small dents and bends was observed at Span 1 U4, U5, and U6.

Minor amounts of rusting and paint loss were observed in the sway frame verticals.

Bottom Chord Lateral Bracing- The Span 3 FB8 sidewalk truss lower lateral bracing connection plate is covered in 2-3 inch deep debris accumulations.

In Span 2 at the FB5 roadway truss lower lateral bracing connection plate pack rust at the floorbeam flange edge has bent the connection downward by approximately one inch (Photo 58). A similar condition with ½ inch of downward displacement of the connection plate was noted at Span 1 at the FB5 roadway truss.

The lower lateral bracing angle in Span 2 connecting the FB1 sidewalk truss and FB2 roadway truss is displaced laterally in the horizontal plane by 4 inches (Photo 50). The lower lateral bracing angle in Span 2 connecting FB4 sidewalk truss and FB5 roadway truss is displaced laterally in the horizontal plane by 6 inches (Photo 59). The lower lateral bracing angle in Span 3 connecting the FB1 sidewalk truss and FB2 roadway truss is displaced laterally in the horizontal plane by 6 inches. The lower lateral bracing

angle in Span 3 connecting the FB2 sidewalk truss and FB3 roadway truss is displaced laterally in the horizontal plane by 4 inches. The lower lateral bracing angle in Span 3 connecting the FB3 sidewalk truss and FB4 roadway truss is displaced laterally in the horizontal plane by 9 inches (Photo 60). The most likely cause of lateral displacement of the lower lateral bracing angles is impact damage from large floating debris during a high water event, such as tree limbs. The direction of the displacements was confirmed to be consistent with the downstream waterway direction in all instances. Vertical displacement of approximately six inches was observed in the lower lateral bracing angle in Span 3 connecting the FB5 sidewalk truss and FB6 roadway truss.

Bearings: The Span 1 roadway truss expansion bearing at Pier 1 has debris accumulations filling the slot for the southwest anchor bolt, inhibiting free thermal movements (Photo 61).

The bearing pin nuts are completely missing on the east faces of both truss line lower chords at the Span 2 expansion bearings on Pier 2 (Photo 62). The Span 3 sidewalk truss fixed bearing at Pier 2 has a cracked bearing pin nut on the lower chord west face and the lower half of the nut is missing (Photo 63). The Span 2 sidewalk truss expansion bearing is missing the single west side anchor bolt and the base of the pedestal casting is rotated slightly compared to the masonry plate (Photo 63). This bearing also has a variable gap along the west face between the underside of the pedestal casting and the top of the bronze plate surface. This condition could be an indication that the bearing pin may not be rotating freely as intended. The Span 2 roadway truss expansion bearing on Pier 2 is missing the southwest corner anchor bolt (Photo 64).

The south abutment expansion bearings have heavy 3-4 inch deep debris accumulations around the bearing and also completely filling the expansion slots and inhibiting free thermal movements (Photo 65). The bearing pin nut on the west side of the sidewalk truss bearing is cracked. The bearing pin nut on the east side of the roadway truss bearing is cracked and the lower half of the nut has fallen away completely from the face of the chord (Photo 66). Based on observation of the paint interfaces at the anchor bolt flat washer plates, it appears that the bearings have not moved to any significant degree since the last bridge re-painting.

Corrosion Losses for Primary Members: Table 1 contains a listing of specific locations where measurable section loss was observed in primary superstructure members, including primary truss members, floorbeams, and stringers. For cases in which section loss was documented in the primary superstructure components, the live load rating computations were prepared to consider the actual remaining section. (The lower lateral bracing and associated connection plates are secondary members which serve to carry wind and lateral loads but do not participate directly in resisting traffic live loads.)

Member	Location	Description
Span 2 roadway truss L5-U6	Approximately 4 feet below mid-height horizontal bracing connection on the east face of the flange	Flange has a 2 inch deep notch due to impact damage (Photo 44-6906).
Span 2 roadway truss U7-L7	Approximately a foot above the top of the floorbeam on the east face of the flange	Section loss up to 3/16 inch deep and 2 inches wide (Photo 39-6913).
Span 2 roadway truss U6-L6	Approximately two foot above the top of the floorbeam on the east face of the flange	Section loss up to 1/4 inches deep and 4 1/2 inches wide (Photo 40-6914).
Span 2 roadway truss L5-U6	Approximately at top of curb level on the east face of the flange	Section loss up to 3/16 inch deep and 4 inches wide (Photo 41-6915).
Span 3 sidewalk truss U3-L4	Approximately 6 feet above curb level on the west face of the flange	Flange has a 1 inch deep notch due to impact damage.

TABLE 1- Locations of Measurable Section Loss in Primary Members

Substructure

The visible substructure elements are in fair condition.

Abutments: Both abutments have been previously retrofitted with Dywidag post-tensioned concrete encasement repairs immediately below both truss bearings (Photo 67). The south abutment breastwall has fine to medium map cracking in the upper five feet, a wide vertical crack at the roadway centerline in the upper two-thirds of the height, and two medium cracks in the lower portion of the breastwall (Photo 67). The wide vertical crack in the breastwall at roadway centerline extends across the bridge seat and continues upward over the full height of the backwall (Photo 49). The south abutment bridge seat is covered with 3-4 inch deep debris accumulations nearly full width of the seat. The south abutment backwall has severe map cracking outboard of the roadway truss along with heavy spalling in the sloped top portion.

Wingwalls: The northeast wingwall has map cracking with efflorescence (Photo 68).

The southeast wingwall is in fair condition with two spalls less than 2 SF each in size and a medium vertical crack extending from the top to the base (Photo 69). The southwest wingwall is in poor condition with a large deep spall continuous along the top for full length of the wingwall (Photo 70).

Piers: Both faces of both piers have been previously retrofitted with Dywidag post-tensioned concrete encasement repairs immediately below both truss bearings (Photo 71). The north face of Pier 1 has minor spalls and scaling (Photo 71). The west end of Pier 2 has a zone of spalls and scaling along the full height of the icebreaker edge (Photo 72).

Channel

There were no major visible deficiencies in the channel. A trapped tree trunk was observed to be lodged on the upstream end of Pier 1 (Photo 71).

Miscellaneous

Approach Pavement: The south approach pavement has numerous wide cracks and depressions which result in a rough surface (Photo 73). At the time of the inspection there was an active construction project underway along US 2 which appeared to include resurfacing work to the north bridge approach which was still to be completed (Photo 74).

Approach Curb: NA.

Approach Guiderails: The approach guiderails at the southwest and southeast corners are substandard due to lack of stiffening in the transition zones and lack of proper attachments to the bridge railings (Photo 73). The approach guiderail at the northeast corner is also substandard due to lack of stiffening in the transition zone and lack of proper attachment to the bridge railing (Photo 75). The northwest bridge corner is missing guiderail entirely (Photo 75).

Load Posting: The bridge is not currently posted for live load.

Signage: No vertical clearance signs are posted on the approach roadways or on the structure. There is a bridge ID marker located at the southeast leading end corner of the structure.

Utilities: Three under-deck utility pipe conduits are located between S3 and S4 running full length of the bridge (Photo 76). These conduits are suspended directly from hanger supports embedded in the deck slab and pass through cut-outs in the floorbeam webs. At the FB8 end floorbeam in Span 2 these three metallic conduits are severely corroded and completely perforated, exposing the electrical cables over a one foot length (Photo 77).

Between S5 and S6 in Span 1 there is an abandoned former messenger cable which extends over portions of the bridge length (Photo 78).

V. Conclusions and Recommendations

The results of the inspection indicate that the bridge is overall in fair condition.

- The **deck** is in fair condition, rated a 5. The transverse construction joints above each floorbeam have spalling along the edges with previous bituminous or concrete patches. The underside of deck has numerous spalls with exposed reinforcing which are typically concentrated along the inboard edges of S3 and S6. The east sidewalk curb face is cracked and deteriorated with spalls over nearly 150 feet of the bridge length. A few patches are present at the deck joints over both piers. A large bituminous patch is present at the south abutment at the end of the concrete bridge deck.
- The **superstructure** is in poor condition, rated a 4. Approximately ten of the truss verticals and diagonals have sustained impact damage with several exhibiting permanent twisting and displacement with bent flange edges or notches. End floorbeam paint conditions are poor within all three spans. Numerous lower lateral bracing angles have lateral displacement believed to result from impacts from floating debris during high water periods. Numerous sway frames have sustained impact damage with four locations warranting replacement of the lower transverse sway frame members. Bearing pin nuts are cracked or completely missing at a total of five locations. Two bearings are each missing an anchor bolt.
- The **substructure** is in fair condition, rated a 5. The south abutment contains a wide vertical crack in the breastwall which continues across the bridge seat and up into the backwall. Three of the wingwalls have cracks and spalls with exposed reinforcing. The west end of Pier 2 has spalls and scaling along the full height of the icebreaker edge.

Recommendations:

We recommend that the following safety improvements, repairs or rehabilitation, and/or monitoring should be made to retard further deterioration, preserve the structural integrity of the bridge, and extend its useful life:

1. Perform spall repairs to the monolithic concrete wearing surface at the three transverse construction joint locations in Span 3.
2. Perform concrete spall repairs to the underside of deck to remove and replace unsound concrete.
3. Perform full depth deck replacement over a five foot length of the deck at the south abutment. Reconstruct the bituminous approach pavement over a length of 10 feet at the south end of the bridge by removing and replacing the pavement full-depth to restore a smooth transition onto the bridge deck.
4. Replace the steel bridge and sidewalk bicycle/pedestrian railings with new railings which meet current safety standards and criteria.

5. Perform spall repairs to the east curb at the south end of Span 3, in Span 2 between L4 to L7. Perform spall repair to the west curb at the south abutment and to both curbs within 3 feet either side of the Pier 1 and 2 deck joints.
6. Replace the sidewalk sliding plate joints at Pier 1 and 2.
7. High pressure wash the below-deck portions of the sidewalk truss focusing on the lower chord panel points to remove the heavy debris accumulations. High pressure wash the sidewalk truss lower lateral connection plates and the bridge seats to remove the moisture-laden debris deposits.
8. Since the truss verticals experience load reversal and are required to carry compressive dead loads and compressive live loads under certain live loading conditions, the impact damage could decrease the capacity of the member by reducing the compression buckling resistance to a level at which this mode of failure would govern compared to strength. The capacity of these members will be evaluated as part of the load rating to determine the need for repairs.
9. Depending on the results from the load rating analyses, consider adding web plates to these two diagonals to restore the section loss due to the impact damage notches. In any case, notches in FCM tension members are significant FSD's. Hence, the notches should be removed and all sharp edges should be ground smooth.
10. Re-inspect all field weld locations in the vertical FCM's during future biennial bridge inspection cycles. Check for any indications of fatigue cracking initiation as part of the regularly scheduled bridge inspection cycles.
11. Replace the sway frames at the four specified locations. Following completion of the sway frame replacement, the proper alignment and overall geometry of the affected panel points should be verified.
12. Replace the lower lateral bracing angle at the six specified locations. Following completion of the lower lateral bracing angle replacement, the proper alignment and overall geometry of the affected panel points should be verified.
13. Remove the debris accumulations from around the south abutment and Pier 1 expansion bearings as well as from the expansion slots to restore free thermal movements.
14. Replace the bearing pin nuts at the five specified locations.
15. Core drill and grout new anchor bolts at the two specified locations.
16. Perform epoxy crack injection to repair the cracks in the south abutment and the three specified wingwalls. Perform spall repairs to remove and replace unsound

concrete at the two spalls in the southeast wingwall as well as at the large spall in the southwest wingwall.

17. Perform spall repairs to remove and replace unsound concrete at the Pier 2 icebreaker edge.
18. Replace the existing guiderails within 25 feet of each corner of the bridge with properly stiffened guiderail conforming to current standards. Install missing guiderail in the northwest corner.

Appendix A

Inspection Photographs



Photo 1 – Downstream elevation looking southwest. (Note- See Report cover for upstream elevation photo).



Photo 2 – View of bridge looking north from the south approach roadway.



Photo 3 – General top of deck, looking north in Span 3 from the south abutment.



Photo 4 – Top of deck, looking north from above the south pier (Pier 2).



Photo 5 – The transverse construction joint above FB7 in Span 3 has minor spalling of the edges of the joint for the full width of the northbound lane. Looking west.



Photo 6 – Above FB4 in Span 3 the transverse construction joint has a one foot square spall patched with bituminous material along the west curb. Looking west.



Photo 7 – Above FB1 in Span 3 the transverse construction joint has three small spalls patched with bituminous material.



Photo 8 – Above FB7 in Span 2 the transverse construction joint has two spalls in the northbound lane measuring 1 to 2 SF in size, each patched with concrete.



Photo 9 – Above FB7 in Span 1 the transverse construction joint has a 4 SF spall in the northbound lane along the east curb, patched with concrete. Looking east.



Photo 10 – Three minor spalls in the underside of deck were noted in the floorbeam haunch zones of FB6 in Span 1 in various stringer bays. View between S4 and S5.



Photo 11 – Approximately ten transverse cracks with efflorescence in the underside of deck in Span 1 between FB7 and FB8, distributed in three different stringer bays.



Photo 12 – In Span 2 between FB1 and FB2 two cracks with efflorescence in sidewalk slab and a longitudinal crack with efflor. along sidewalk horizontal construction joint .



Photo 13 – In Span 2 between FB3 and FB4 a longitudinal crack with efflorescence was observed between S3 and S4 located just inboard of the east curbline. Looking east.



Photo 14 – In Span 2 between FB7 and FB8 four transverse cracks with efflorescence were noted between S5 and S6 in top portion of photo. Looking east.



Photo 15 – A 2 foot square spall with exposed reinforcing in Span 2 between FB5 & FB6 along with efflorescence at sidewalk to deck slab construction joint. Looking southwest.



Photo 16 – In Span 3 between FB0 and FB1 five spalls with exposed reinforcing were noted between S5 and S6. View is looking south.



Photo 17 – Above FB0 in Span 2 all three stringer bays have been patched with repairs measuring 4 feet long by full width of the bay. Looking north at Pier 1.



Photo 18 –In Span 2 between S5 and S6 two spalls with exposed reinforcing measuring approximately 2 feet square each, near mid-panel and at FB3. View is looking south.



Photo 19 – Above FB8 in Span 2 a 1 foot by 2 foot spall was observed in the floorbeam haunch zone between S4 and S5 at top left. Also note concrete patches in both bays.



Photo 20 – Transverse cracks with heavy efflorescence were observed above FB8 in Span 3 in all bays between S3 and S6. Looking south at south abutment.



Photo 21 – West traffic railing in Span 1 at L5 has a splice in both rails to repair previous impact damage. Note truss vertical is rotated from collision damage. Looking west.



Photo 22 – Impact damage to the west traffic railing was observed in Span 3 at L5. Looking north in southbound lane.



Photo 23 – A few missing bolts were observed at the connections of the railings to the attachment angles at verticals or diagonals. View is at Span 3 U3-L4.



Photo 24 – East sidewalk curb face has a wide horizontal crack at south end of Span 3 which extends along mid-height of curb for nearly half of the length of the span.



Photo 25 – The east sidewalk curb face in Span 2 has a long spall with exposed reinforcing extending from L4 to L6. Looking northeast.



Photo 26 – South abutment bituminous pavement patch is deteriorated with extensive successive patches, resulting in a rough riding surface at the concrete bridge deck.



Photo 27 – Pier 2 deck joint has minor spalling with bituminous patches and the joint opening varies along the length of the joint from $\frac{3}{4}$ inches to zero at roadway centerline.



Photo 28 – The sidewalk sliding plate joint at Pier 2 projects upward $\frac{3}{4}$ to one inch at plate corner, creating a tripping hazard. Similar condition was observed at Pier 1 joint.



Photo 29 – The deck joint at Pier 1 has minor spalling in the near northbound lane and a one foot by 6 foot spall patched with concrete in the far southbound lane.



Photo 30 – Paint system is generally intact with minimal failures throughout exterior and interior surfaces of upper chords. View inside Span 3 sidewalk truss U3-U4.



Photo 31 – The Span 3 L1-L2 sidewalk truss has up to 8 inch deep debris accumulations between the side channels on the top of the L1 lower tie plate.



Photo 32 – The Span 3 sidewalk truss at L2 has 9-12 inch deep debris accumulations between the side channels on the lower lateral connection plate.



Photo 33 – Active corrosion was observed in lower chord bottom interior surfaces along with lower portions of vertical and gusset plates at sidewalk truss L6 in Span 3.



Photo 34 – Minor pack rust of the top and bottom splice plates with one inch vertical deformation was observed in the Span 3 roadway truss at the L3 lower chord splice.



Photo 35 – At the Span 1 L0-U1 sidewalk truss end post, a severed lacing bar due to section loss was observed just below top of sidewalk level. Looking north.



Photo 36 – At L3 in Span 2 roadway truss the vertical and diagonal have sustained damage at 2 feet above the lower chord, with localized twisting of the flanges.



Photo 37 – The west flange of the Span 2 roadway truss diagonal U2-L3 is permanently deformed and bent inward by 2-1/2 inches. Looking north.



Photo 38 – The west flange of the Span 2 roadway truss vertical U3-L3 is permanently deformed and bent outward by 1-1/2 inches. Looking south.



Photo 39 – The Span 2 roadway truss U7-L7 vertical has section loss on east face of flange up to 3/16 inch deep and 2 inches wide located a foot above top of the floorbeam.



Photo 40 – Span 2 roadway truss U6-L6 vertical has section loss on east face of flange up to 1/4 inch deep and 4 1/2 inches wide located two feet above top of floorbeam.



Photo 41 – Span 2 roadway truss L5-U6 diagonal has section loss on the east face of the flange up to 3/16 inch deep and 4 inches wide located at top of curb level.



Photo 42 –The Span 1 roadway truss U5-L5 has sustained impact damage at railing level with localized twisting over a three foot length and a permanent bend in the flange tip.



Photo 43 – Span 3 sidewalk truss U3-L3 has impact damage with up to 3 inches of lateral displacement in longitudinal direction and up to 1 1/2 inches in the transverse direction.



Photo 44 – Impact damage to the Span 2 roadway truss L5-U6 diagonal has resulted in a notch in the flange tip which is approximately 2 inches deep.



Photo 45 – At L6 in the Span 1 roadway truss the vertical U6-L6 has sustained impact damage and a permanent bend in the flange tip. Looking south.



Photo 46 – At L2 in the Span 2 roadway truss the vertical U2-L2 has sustained impact damage and a permanent bend in the flange tip of 1 ½ inches over a length of two feet.



Photo 47 – Field-welded plates added to many verticals just below existing lower transverse sway frame members to cover open holes of original sway frame connections.



Photo 48 – The Span 2 roadway truss diagonal U1-L2 is missing a single rivet in the east face L2 gusset, leaving 19 of the original total of 20 rivets to resist the member loads.



Photo 49 – The Span 3 FB8 end floorbeam has failed paint on the web and active corrosion. Looking south at south abutment between S4 & S5. Note crack in backwall.



Photo 50 – Stringers generally in satisfactory condition with few defects. Note displacement in Span 2 bracing connecting FB1 sidewalk and FB2 roadway trusses.



Photo 51 – The lower transverse members at portal bracing have been replaced with bolted rolled shapes at both ends of all three spans. View at north portal of Span 1.



Photo 52 – High strength bolted repairs were observed in various sway frame connections including the diagonal intersection connection plate at Span 3 U3.



Photo 53 – Impact damage to the portal bracing at the south end of Span 3 over the northbound lane was observed.



Photo 54 – Impact damage to the sway frame lower transverse member along with lateral displacement of 6 inches in the horizontal plane was observed at Span 3 U3.



Photo 55 – Impact damage to Span 3 U4 sway frame lower transverse member along with twisting and local vertical bends in edges of horizontal legs of angles over both lanes.



Photo 56 – Impact damage to the sway frame lower transverse member along with lateral displacement in the horizontal plane of more than 3 inches was observed at Span 3 U6.



Photo 57 – Sway frame lower transverse member impact damage at Span 1 U2 over southbound lane. Also note welded plate on vertical below sway frame strut.



Photo 58 – In Span 2 at FB5 roadway truss lower lateral connection pack rust at floorbeam flange edge has bent the connection plate down by approximately one inch.



Photo 59 – The lower lateral bracing angle in Span 2 connecting FB4 sidewalk truss and FB5 roadway truss is displaced laterally in the horizontal plane by 6 inches.



Photo 60 – The lower lateral bracing angle in Span 3 connecting the FB3 sidewalk truss and FB4 roadway truss is displaced laterally in the horizontal plane by 9 inches.



Photo 61 – The Span 1 roadway truss expansion bearing at Pier 1 has debris accumulations filling the slot for the southwest anchor bolt, inhibiting free movements.



Photo 62 – The bearing pin nuts are missing on the east faces of both truss line lower chords at Span 2 expansion bearings on Pier 2. Looking west with Span 2 on right.



Photo 63 – Span 3 sidewalk truss bearing at Pier 2 has a cracked bearing pin nut and lower half of the nut is missing (at right). Also note missing anchor bolt in Span 2 bearing.



Photo 64 – The Span 2 roadway truss expansion bearing on Pier 2 is missing the southwest corner anchor bolt. Looking southeast with Span 2 on left, Span 3 on right.



Photo 65 – South abutment expansion bearings have heavy 3-4 inch deep debris accumulations around the bearing and also filling the anchor bolt expansion slots.



Photo 66 – The bearing pin nut on the east side of the roadway truss bearing is cracked and the lower half of the nut has fallen away completely from the face of the chord.



Photo 67 – Both abutments have been retrofitted with Dywidag post-tensioned concrete encasement repairs immediately below both truss bearings. View at south abutment. Also note wide vertical crack in breastwall at centerline of bridge and two lower cracks.



Photo 68 – The northeast wingwall has map cracking with efflorescence.



Photo 69 – The southeast wingwall is in fair condition with two spalls less than 2 SF each in size and a medium vertical crack extending from the top to the base.



Photo 70 – The southwest wingwall is in poor condition with a large deep spall continuous along the top for full length of the wingwall.



Photo 71 – Both faces of both piers have been previously retrofitted with Dywidag post-tensioned concrete encasement repairs immediately below both truss bearings.



Photo 72 – The west end of Pier 2 has a zone of spalls and scaling along the full height of the icebreaker edge. Looking east in the downstream direction at upstream end of pier.



Photo 73 – The south approach pavement has numerous wide cracks and depressions which result in a rough surface. Also note substandard southwest corner guiderail.



Photo 74 – At time of inspection there was an active construction project underway along US 2 which appeared to include resurfacing work to north approach still to be completed.



Photo 75 – Approach guiderail at the northeast corner is substandard due to lack of stiffening and proper attachment to bridge railing. Northwest corner is missing guiderail.



Photo 76 – Three under-deck utility pipe conduits are located between S3 and S4 running full length of the bridge. Looking north. Note hanger rods embedded in deck.



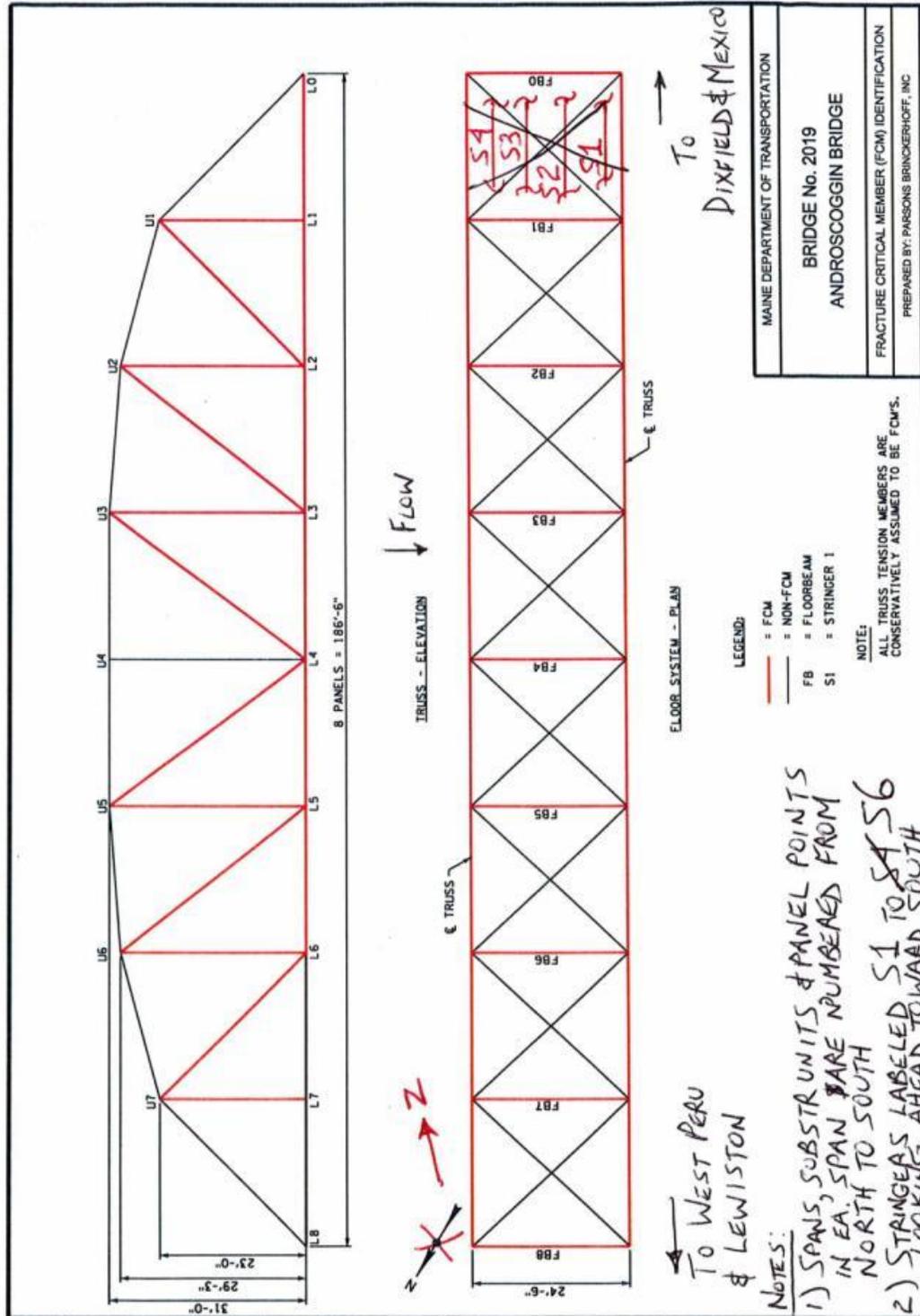
Photo 77 – At the FB8 end floorbeam in Span 2 the three metallic conduits are severely corroded and completely perforated, exposing the electrical cables over a one foot length.



Photo 78 – Between S5 and S6 in Span 1 there is an abandoned former messenger cable which extends over portions of the bridge length. Looking south.

Appendix B

Field Inspection Notes



Maine South Truss Bridge 2019 Androscoggin

Made by: BDH

Items to be verified in the Field:

8/2/2012

1. No shop drawings were provided for this structure, so we have no details of the gusset plates.
Please field measure each unique gusset plate on the sidewalk and roadway truss.
2. Confirm presence of utilities; 1978 documents reference an added sewer main.



Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

AMC
Daily Page Number 1 of 4

Parsons Brinckerhoff - PHOTO LOG
Project: MAINE NORTH TRUSSES

Team Leader: RS Date: 8/9/12 Bridge: 2019

PHOTO #	DIRECTION	LOCATION	DESCRIPTION
884 885 672 673	(N) S	Span No. 3	Condition: S. APPROACH
	W E	PP	
	Up Down	Member	
886 674	(N) S	Span No. 3	Condition: S.E. CORNER
	W (E)	PP	SUBSTANDARD GUIDE RAIL
	Up Down	Member	
887 675	(N) S	Span No. 3	Condition: S.W. CORNER
	(W) E	PP	SUBSTANDARD GUIDE RAIL
	Up Down	Member	NO ATTACHMENT TO BRIDGE RAIL
888 676	(N) S	Span No. 3	Condition: S. APPROACH
	(W) E	PP	NUMEROUS CRACKS IN BIT PAVEMENT
	Up Down	Member	
889 677	N S	Span No. 3	Condition: SO. ABUT DECK JOINT
	(W) E	PP	BIT PATCH W/DECK SOFT RETROFIT
	Up Down	Member	BUMPY FOR 6'-8' UP TO DECK
890 678	N S	Span No. 3	Condition: BRIDGE ID MARKER S.E. CORN.
	W (E)	PP	
	Up Down	Member	
891 679	N S	Span No. 3	Condition: BELOW S. ABUT ALONG BACK WALL
	W (E)	PP	FIXED BRG
	Up Down	Member	
892 680	(N) S	Span No. 3	Condition: FROM S. ABUT S.W.
	W E	PP	
	Up Down	Member	
893 681	(N) S	Span No. 3	Condition: GEN. SPAN 3 FROM ABUT
	W E	PP	
	Up Down	Member	
894 682	(N) S	Span No. 3	Condition: S.E. S.W. CURB + ROADWAY
	W (E)	PP	CRACK ALONG MID HEIGHT OF CURB
	Up Down	Member	TYP. FOR S. HALF OF SPAN

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 2 of 4	
Project: _____					
Team Leader: _____		Date: _____		Bridge: _____	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
895	N S	Span No.	3	Condition: TYP BRIDGE TRAFFIC RAILING	
	(W) E	PP			
	Up Down	Member			
896	N S	Span No.	3	Condition: S.W. PED RAILING	
	W (E)	PP			
	Up Down	Member			
897	(N) S	Span No.	3	Condition: LOU9 PORTAL DIAG.	
	W (E)	PP		SEVERAL HALF INCH DEEP SCRAPES +	
	Up Down	Member		DENTS DUE TO IMPACT DAMAGE	
898	N S	Span No.	3	Condition: TRANSVERSE CONS. JOINT @	
	(W) E	PP	L7	FB7 → MINOR SPALLING FULL WIDTH	
	Up Down	Member		OF NB LANE	
899	N S	Span No.	3	Condition: SB LANE @ JOINT FB7	
	(W) E	PP		1' sq. SPALL W/PATCH ALONG W. CURB	
	Up Down	Member			
900	N S	Span No.	3	Condition: TYP SLUPPER @ E. CURB S.W.	
	W (E)	PP		EVERY OTHER PANEL, E.W. CURBS	
	Up (Down)	Member			
901	N S	Span No.	3	Condition: CURB HEIGHT 9"	
	W (E)	PP			
	Up Down	Member			
902	N S	Span No.	3	Condition: L1 TRANS. CONST JOINT	
	(W) E	PP		3 MINOR SPALLS W/BIT PATCH	
	Up Down	Member			
903	N S	Span No.	2/3	Condition: DECK JOINT ABOVE FIFE 2	
	(W) E	PP		MINOR SPALLING ALONG JOINT ARMOR	
	Up Down	Member		BIT PATCHING	
904	N S	Span No.	2/3	Condition: JOINT OPENING VARIES FROM 3/4"	
	(W) E	PP		TO 0" @ 4' OF ROADWAY	
	Up (Down)	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 3 of 4	
Project: _____					
Team Leader: _____ Date: _____ Bridge: _____					
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
905	N S	Span No.	2/3	Condition: SPALLS IN ROADWAY CURB @	
	(W) E	PP		PIER 2 JOINT	
	Up Down	Member			
906	(N) S	Span No.	2	Condition: SPAN 2 GEN	
	W E	PP			
	Up Down	Member			
907	N S	Span No.	2/3	Condition: SLIDING R JOINT IN S.W.	
	W (E)	PP		R EDGE PROTECTS UP IN CORNER S. SIDE	
	Up (Down)	Member		3/4" TO 1"	
908	N S	Span No.	2	Condition: CONST JOINT @ FB 7	
	(W) E	PP	L7	2 CONC. PATCH IN N.B. LANE	
	Up Down	Member			
909	(N) S	Span No.	2	Condition: E. S.W. CURB - LONG SPALL	
	W (E)	PP		W/EXPOSED REINF. FROM LG-L4	
	Up Down	Member			
910	N S	Span No.	2	Condition: DOWNSTREAM WATERWAY	
	W (E)	PP			
	Up Down	Member			
911	N S	Span No.	2	Condition: UPSTREAM WATERWAY	
	(W) E	PP			
	Up Down	Member			
912	N S	Span No.	1/2	Condition: PIER 1 DECK JOINT	
	(W) E	PP		CONC PATCH 6X1' IN SB LANE	
	Up Down	Member		SPACING IN W. CURB	
913	N S	Span No.	1/2	Condition: CURB SPALL & BENT S.W. R	
	W (E)	PP			
	Up Down	Member			
914	(N) S	Span No.	1	Condition: TOP OF DECK GEN.	
	W E	PP			
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 4 of 4
Project:				
Team Leader: _____ Date: _____ Bridge: _____				
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
915	N S	Span No.	1	Condition: L7 2'SG DECK PATCH @
	W (E)	PP	L7	S.W. CRACK IN MID PATCH
	Up Down	Member		
916	N S	Span No.	1	Condition: TRAFFIC RAIL SPICED @
	(W) (E)	PP	L5	PREVIOUS IMPACT LOCATION
	Up Down	Member		
917	(N) S	Span No.	1	Condition: @ N. APPROACH
	W E	PP		ACTIVE CONS. ADJACENT TO BRIDGE (RT 2.)
	Up Down	Member		
918	N S	Span No.	1	Condition: N. ABUT DECK JOINT (PAVED OVER.)
	(W) E	PP		
	Up Down	Member		
919	N (S)	Span No.	1	Condition: N.W. CORNER → NO GUIDE RAIL
	(W) E	PP		
	Up Down	Member		
920	N (S)	Span No.	1	Condition: N.E. BRIDGE CORNER
	W (E)	PP		SUB STANDARD GUIDE RAIL
	Up Down	Member		SUB STANDARD ATTACHMENT TO FED RAIL → NO STIFF.
921	(N) S	Span No.		Condition: CONSTRUCTION SITE - TEMP
	W (E)	PP		
	Up Down	Member		
922 923	N (S)	Span No.		Condition: N. APPROACH OF BRIDGE
	W E	PP		SPAN 1
	Up Down	Member		
924	N (S)	Span No.		Condition: SAME BUT FURTHER BACK
	W E	PP		
	Up Down	Member		
	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 1 of 9	
Project:							
Team Leader: KS		Date: 8/10/2012		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
925	N (S)	Span No.	1	Condition: North face of Pier 1			
	W E	PP		Pier retrofit under each bearing. Minor spalls on			
	Up Down	Member		pier face. Trapped tree trunk @ pier along the waterline. ^{upstream side}			
926	(N) S	Span No.	1	Condition: West fascia of span 1			
	W E	PP		GENL			
	Up Down	Member					
927	N (S)	Span No.		Condition: West fascia (looking from Span 1 toward			
	W E	PP		Spans 2 and 3)			
	Up Down	Member		GENL			
928	N S	Span No.	1	Condition: 4" W Spall w/ exposed rebar along FB			
	W E	PP		Similar condition exists btw Span 1, S3 and S4			
	(Up) Down	Member	Btw S5 & S6 @ FB6				
929	N S	Span No.	1	Condition: 4" W Spall w/ exposed rebar along FB			
	W E	PP					
	(Up) Down	Member	Btw S4 & S5 @ FB6				
930	(N) S	Span No.	1	Condition: General Underside			
	W E	PP		Looking N from Span 1 FB6			
	Up Down	Member		3 Utility Pipes btw S3 and S4			
931	N (S)	Span No.	1	Condition: General Underside			
	W E	PP		Btw L7 and L8, for fine transverse cracks w/ efflo			
	Up Down	Member		in deck between S5 and S6 near downspout. Similar condition			
	N S	Span No.		Condition: @ FB 8 btw S4 and S5, and S5 and S6			
	W E	PP					
	Up Down	Member					
932	N (S)	Span No.	1	Condition: Long. cable running from FB7 to FB1			
	W E	PP		in Span 1, just above the FB cutout			
	Up Down	Member	Btw S4 and S6				
933	(N) S	Span No.	1	Condition: Along the interface of sidewalk truss from			
	W E	PP		FB6			
	Up Down	Member					

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by RL	Daily Page Number 2 of 9
Project:					
Team Leader:		Date:	Bridge:		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
934	(N) S	Span No.	1	Condition: bar underneath the sidewalk from FBG	
	W E	PP		GENL	
	Up Down	Member			
935	N (S)	Span No.		Condition: Looking S from Span 1 FBG	
	W E	PP		Underneath the sidewalk	
	Up Down	Member		GENL	
936	N (S)	Span No.	2 & 3	Condition: Fast fascia	
	W E	PP		GENL	
	Up Down	Member			
937	(N) S	Span No.	1	Condition: Fast fascia	
	W E	PP		GENL	
	Up Down	Member			
938	(N) S	Span No.	1	Condition: Sidewalk truss Lft L7 and L8	
	W E	PP		GENL	
	Up Down	Member			
939	N S	Span No.		Condition: North Face and Top of Cap of Pier 1	
	(W) E	PP			
	Up Down	Member			
940	N S	Span No.		Condition: SD Pier 1 Bearings @ Sidewalk truss	
	(W) E	PP		Span 1 is to the right. Span 2 is to the left	
	Up Down	Member			
941	N S	Span No.		Condition: Span 1 & 2 End FBs over Pier 1	
	(W) E	PP		GENL	
	(Up) Down	Member			
942	(N) S	Span No.		Condition: N. Abutment	
	W E	PP		GENL Retrait @ each bearing. Fine	
	Up Down	Member		cracks w/ efflu @ NE long Wall	
943	N S	Span No.		Condition: Sth Pier 1 End FBs	
	W (E)	PP		1 GENL	
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 3 of 9	
Project:		Team Leader:		Date: 8/16/2012		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
944	N S	Span No.		Condition: Roadway truss bearings @ Pier 1			
	W E	PP					
	Up Down	Member					
945	N S	Span No.		Condition: Pier 1 Bearings Roadway truss bearings			
	W E	PP		@ Pier 1. Span 1 on the left. Span 2 on the			
	Up Down	Member		right.			
946	N S	Span No.		Condition: Blt end FBs @ Pier 1			
	W E	PP					
	Up Down	Member					
947	N S	Span No.	1	Condition: Row Roadway truss Exp. Bracing @ Pier 1			
	W E	PP		D anchor bolt slot filled w/ debris			
	Up Down	Member					
948	N S	Span No.		Condition: @ West Face of Pier 1			
	W E	PP		GENL			
	Up Down	Member					
949	N S	Span No.		Condition: West fascia of Span			
	W E	PP		Looking S from Pier			
	Up Down	Member					
950	N S	Span No.		Condition: North face of Pier 2 GENL			
	W E	PP					
	Up Down	Member					
951	N S	Span No.	2	Condition: 4' L x 7' H concrete patch to deck underside			
	W E	PP		in all 3 stringer bays. Several transverse cracks w/			
	Up Down	Member	10 FB	offsets within 10' ft of FB			
952	N S	Span No.	2	Condition: General underside of Span 2 from below			
	W E	PP		Span 2 FB 1			
	Up Down	Member					
953	N S	Span No.	2	Condition: ^{Lower} Lateral bracing (single) displaced 4" laterally in			
	W E	PP		the truss plane			
	Up Down	Member		View toward FB1 @ Sidewalk truss			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 9 of 9	
Project:				Notes by KL	
Team Leader:		Date: 8/19/2019		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
954	(N) S	Span No.		Condition: Sidewalk cross bearings @ Pier 1	
	(W) E	PP		GEN	
	Up (Down)	Member			
955	N S	Span No.		Condition: South face of Pier 1	
	(W) E	PP			
	Up Down	Member			
956	N (S)	Span No.	2	Condition: Below sidewalk East fascia of Span 2.	
	W E	PP			
	Up Down	Member			
957	(N) S	Span No.	2	Condition: Sidewalk curb curbing betw 11' and 12'	
	(W) E	PP		11' long crack along the sidewalk @ w/ effls	
	Up Down	Member		2 transverse cracks in sidewalk w/ effls	
958	(N) S	Span No.	2	Condition: Underside of D deck betw SS and SG, a	
	(W) E	PP		4' x 6' pad concrete patch @ S. side FB?	
	Up Down	Member			
959	N S	Span No.	2	Condition: Btw FB1 and FB3, a two 2' square spall	
	(W) E	PP		w/ exposed rebar @ mid. betw 7' and betw SS and SG.	
	(Up) Down	Member		A 2' square spall w/ exposed rebar @ A side of FB3	
960 961	N (S)	Span No.	2	Condition: Bent and twisted flange on both vertical end	
	W (E)	PP		Viewed likely due to floating debris impact on high water.	
	Up Down	Member	13 @ Revolving		
962	N (S)	Span No.	2	Condition: West fascia of Span 2	
	W E	PP		GEN	
	Up Down	Member			
963	(N) S	Span No.	2	Condition: West fascia of Span 2	
	W E	PP		GEN	
	Up Down	Member			
964	N (S)	Span No.	2	Condition: Diagonal U1-12 missing - the last rivet	
	W (E)	PP	12 @	@ East gusset plate. Member has 19 out of	
	Up Down	Member		20 rivets intact Missing Rivet @ End of East flange	

Q:\STRphoto log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 8 of 9	
Project:							
Team Leader: _____ Date: 8/10/2019 Bridge: 2019							
PHOTO #	DIRECTION		LOCATION		DESCRIPTION		
965	N	S	Span No.	2	Condition: Between S5 and S6, a 1'x4' span w/		
	W	(E)	PP		exposed rebar @ FB 2		
	Up	Down	Member				
966	(N)	S	Span No.		Condition: Roadway from bearing @ Pier 1		
	W	E	PP				
	Up	Down	Member				
967 968	(N)	S	Span No.	2	Condition: Out-to-out depth of member is 9 3/8"		
	W	E	PP		Edge of flange bent inward nearly 2 1/2"		
	Up	Down	Member	Roadway from W2-L3			
969 970	N	(S)	Span No.	2	Condition: Out Edge of flange bent outward approx		
	W	E	PP		1/2". Undeformed position of the flange should be		
	Up	Down	Member	Roadway from W2-L3	@ 9"		
971	N	S	Span No.	2	Condition:		
	W	(E)	PP	LA @ Down			
	Up	Down	Member	cross			
972	(N)	S	Span No.		Condition: South face of Pier 1		
	W	E	PP				
	Up	Down	Member				
973	N	(S)	Span No.		Condition: North face of Pier 2		
	W	E	PP				
	Up	Down	Member				
974	N	S	Span No.		Condition: Upstream Waterway		
	(W)	E	PP				
	Up	Down	Member				
975	N	S	Span No.	2	Condition: BTW FB3 & FB4, Deck underside has long crack		
	W	(E)	PP		w/ effls near sidewalk curb btw S3 and S4		
	Up	Down	Member				
976	(N)	S	Span No.	2	Condition: From midspan, general underside		
	W	E	PP				
	Up	Down	Member				

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 6 of 9	
Project:		Notes by KL			
Team Leader:		Date: 8/10/2017		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
977	N (S)	Span No.	2	Condition: From midspan, general underside	
	W E	PP			
	Up Down	Member			
978	(N) S	Span No.	2	Condition: B/W S2 and S4 & three 4" x steel pipes hung	
	W E	PP		from deck	
	Up Down	Member			
979	(N) S	Span No.	2	Condition: Inside Sidewalk truss 13-14	
	W E	PP		Additional inner plate to side channel bet sidewalk	
	Up Down	Member		truss 13-15	
980	N (S)	Span No.	2	Condition: Top of lower chord bet 13-14 @ sidewalk	
	W E	PP		truss	
	Up Down	Member			
981	N (S)	Span No.	2	Condition: Typical FB web cutout 4" x 14" for utilities	
	W E	PP		typical each FB bet S2 and S4, and bet S5 and S6	
	Up Down	Member		full length of bridge	
982	N S	Span No.	2	Condition: Lower lateral bracing connection plate	
	(W) E	PP	EB L5 @ bracing truss	S side of FB 5, bend down by 1" due to park	
	Up Down	Member		rust @ FB edge of string	
985	(N) S	Span No.	2	Condition:	
	W (E)	PP		Lower lateral -1 @ sidewalk truss 14, bent approx 6" in	
	Up Down	Member		the horizontal direction likely due to high water abutment	
984	(N) S	Span No.	2	Condition:	
	W (E)	PP		Close up of previous photo. Same location &	
	Up Down	Member		condition as previous photo	
985	N (S)	Span No.	2	Condition: Sidewalk curbline bet FB 5 and FB 6 and S2 and S3	
	(W) E	PP		A 2' square spot w/ exposed rebar & filler from	
	Up Down	Member		@ sidewalk to deck slab interface	
986	N S	Span No.	2	Condition: 4 1/2" thick sidewalk slab	
	(W) (E)	PP			
	Up Down	Member	bet TBC & FB 5		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 7 of 9	
Project:				Date: 8/10/2012 Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
987	N S W E Up Down	Span No.		Condition: North face of Pier 2			
		PP					
		Member					
988	N S W E Up Down	Span No.	2	Condition: Roadway truss bearing @ Pier 2			
		PP		Missing nut on bearing pin @ inside face of bottom chord.			
		Member					
989	N S W E Up Down	Span No.		Condition: Sidewalk truss bearing @ Pier 2			
		PP		Span 2 bearing is missing a bearing pin @ east side of bottom chord.			
		Member					
990	N S W E Up Down	Span No.		Condition: Sidewalk truss bearing @ Pier 2			
		PP		Span 2 bearing is slightly out of alignment w/ lower bracing plate			
		Member					
991	N S W E Up Down	Span No.		Condition: Sidewalk truss bearing @ Pier 2			
		PP		Span 2 bearing missing ^{its west} anchor bolt			
		Member		Span 3 bearing west bearing pin nut is cracked & missing lower half			
992	N S W E Up Down	Span No.	2	Condition: Span 2 End FB @ Pier 2 btw S3 & S4			
		PP		At FB web cutout, steel pipes are completely perforated.			
		Member		Steel pipes are appeared to be electric cables inside			
993	N S W E Up Down	Span No.		Condition: Sidewalk truss bearing @ Pier 2			
		PP		Variable gap along long side of Span 2 bearing.			
		Member					
994	N S W E Up Down	Span No.		Condition: End Floorbeams and Top of Cap @ Pier 2			
		PP		Developing paint failure in web & BF of End Floorbeam			
		Member					
995	N S W E Up Down	Span No.		Condition: Roadway truss bearing @ Pier 2			
		PP					
		Member					
996	N S W E Up Down	Span No.	2	Condition: A 1' x 2' Spall w/ exposed rebar @ N. side of FB 8 btw S4 and S5			
		PP					
		Member	FB 8				

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 8 of 9	
Project:							
Team Leader:		Date: 8/10/2012		Bridge: 201A			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
997	N (S)	Span No.	2	Condition: on either side of SS @ FB 8, two concrete			
	W E	PP		patches @ deck underside. Transverse cracks w/			
	(Up) Down	Member	FB 8	effls @ patch at right			
998	N (S)	Span No.	2	Condition: Looking inside of Span 2 Roadway Truss			
	W E	PP		bearing @ Pier 2			
	Up Down	Member					
999	N S	Span No.	2	Condition: Underside of deck betw FB 7 and 8			
	W (E)	PP		FOUR transverse cracks w/ effls			
	(Up) Down	Member					
1000	N S	Span No.		Condition: End and (upstream side) of Pier 2			
	W (E)	PP		Spalls and scale			
	Up Down	Member					
1001	N (S)	Span No.		Condition: 1 Sp. Roadway Truss bearing @ Pier 2			
	W (E)	PP		Span 2 bearing missing. Std arch bolt			
	Up Down	Member					
1002	N S	Span No.		Condition: End Floorbeams @ Pier 2			
	W (E)	PP		Inside view in between the end floorbeams			
	Up Down	Member					
	N S	Span No.		Condition: 8" Curb 8" H x 6" W Roadway Curb			
	W E	PP		1.001 12" Concrete deck + Wearing surface			
	Up Down	Member		Measured @ Span 2 betw FB 6			
1003	N (S)	Span No.		Condition: Looking S toward Span 3 from Span 2			
	W E	PP		FB 5			
	Up Down	Member					
1004	(N) S	Span No.		Condition: Looking N toward Span 1 from Span 2			
	W E	PP		FB 5			
	Up Down	Member					
1005	N S	Span No.	2	Condition: No additional plate along side of top			
	W (E)	PP	Roadway Truss @ U.S.	chord			
	Up Down	Member					

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 9 of 9
Project:		Notes by KCL		
Team Leader: _____		Date: 8/14/2019	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION	DESCRIPTION	
1006	(N) S	Span No.	Condition: West face fascia of span bridge from	
	W E	PP	Span 2 TB 5	
	Up Down	Member		
1007	N (S)	Span No.	Condition: West fascia of bridge from Span 2	
	W E	PP	TB 5	
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number of 10	
Project:					
Team Leader: <u>RS</u>		Date: <u>2/13/2012</u>		Bridge: <u>2019</u>	
NOTES BY B. HOLSAPPLE					
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1103	(N) S	Span No.	3	Condition: Spans 2 both RW legs over Pier 2	
	W (E)	PP	LO RW		
	Up Down	Member	RW Bas. Pier 2		
1104	N (S)	Span No.	3	Condition: Scuffs on w/s of deck, with exposed	
	(W) E	PP	LO-L1 RW	crack between S5+S6 and LO+L1	
	Up Down	Member	Deck		
1105	(N) S	Span No.	3	Condition: Patch over FBO, between S5+S6, 3m.	
	W E	PP	LO 1	half bay width patch between S4+S5 also.	
	Up Down	Member	FBO deck	same location.	
1106	(N) S	Span No.	3	Condition: End FBO, FBO; minor paint loss +	
	W (E)	PP		active erosion on w/c of both flgs.	
	Up Down	Member	FBO		
1107	N (S)	Span No.	3	Condition: FBL N. Side. Poor paint condition on web	
	W E	PP		between S3+S5. Note spalled exposed rebar near	
	Up Down	Member	FBL	FB between S1+S5 and wide transverse crack w/alt. over S2+S4	
1108	(N) S	Span No.	3	Condition: S face of Pier 2, 5m E side	
	(W) E	PP	LO		
	Up Down	Member			
1109	(N) S	Span No.	3	Condition: Up to 2' debris accumulations on	
	W E	PP	L1 SW	lower tie R at L1 between side channels.	
	Up Down	Member	L1-L2		
1110	N (S)	Span No.	3	Condition: Approx. 4" of lateral displacement in L1SW	
	(W) E	PP		to L2 RW lateral bracing, likely due to high	
	Up Down	Member		water debris impact	
1111	N (S)	Span No.	3	Condition: 6m' w/s, Span L1 @ SW	
	W E	PP			
	Up Down	Member			
1112	(N) S	Span No.	3	Condition: Note direction in position of lower lateral	
	W E	PP	L1 SW	bracing for Span 3	
	Up Down	Member			

Note:
RW = West
= Upstream
SW = East
= Downstream

with alt. over S2+S4

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 2 of 10	
Project:					
Team Leader:		Date:		Bridge:	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1113	N (S)	Span No.	3	Condition: SW Joints L2 9-12" of debris inside	
	W E	PP	L2 SW	Heard on lower lateral corner P. Similar condition	
	Up Down	Member		on S. face of vertical	
1114	N (S)	Span No.	3	Condition: Note ~6" lateral displacement in lower lat.	
	(W) E	PP		bearing angle between L2 SW & L3 RW	
	Up Down	Member			
1115	N (S)	Span No.	3	Condition: Note ~1 1/2" lateral displacement in horizontal	
	(W) E	PP		Plane of in lower lat. bearing angle between L3 SW	
	Up Down	Member		& L4 RW	
1116	N (S)	Span No.	3	Condition: Along SW Gage from L3	
	W E	PP			
	Up Down	Member			
1117	(N) S	Span No.	3	Condition: Along SW Gage from L3	
	W E	PP			
	Up Down	Member			
1118	N (S)	Span No.	3	Condition: Note about of top flg of inside chord	
	(W) E	PP	L4	channel for installation of TB. Condition occurs	
	(Up) Down	Member	RW	at L2-L4 points, RW & SW, span 3 only	
1119	N (S)	Span No.	3	Condition: Looking S from L4 along RW Gage	
	W E	PP			
	Up Down	Member	RW		
1120	(N) S	Span No.	3	Condition: Minor notch rather top + bottom dip P	
	W (E)	PP	L3	at splice	
	Up Down	Member	RW		
1121	(N) S	Span No.	3	Condition: Small dark notch along top edge of	
	W E	PP	L1	fill P. Bonded to both vertical member	
	Up (Down)	Member	RW	and bottom chord.	
1122	N S	Span No.	3	Condition: Same as above	
	W E	PP	L1		
	Up Down	Member	RW		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 'S of 10	
Project: _____					
Team Leader: _____		Date: _____		Bridge: _____	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1123	N (S)	Span No.	3	Condition: Note verticality at each leg + wide vert. crack in breastwall at RWd. Also 2 med. cracks	
	W E	PP			
	Up Down	Member	S abut	bot. portion of breastwall	
1124	N (S)	Span No.	3	Condition: 4'0" long x 6-12" wide small vertical crack	
	(W) E	PP	L5	between S5 + S6, 2nd N of FBS	
	(U) Down	Member	Deck		
1125	(N) S	Span No.	3	Condition: SW side - back face of curb between L5 +	
	(W) E	PP		L6. Note eff. at SW-RW deck slab joint.	
	(Up) Down	Member	SW Joints		
1126	(N) S	Span No.	3	Condition: Up to 12" debris accumulation on lower lat.	
	W E	PP	L6	connection P, S side of vertical	
	Up Down	Member	SW Joints		
1127	(N) S	Span No.	3	Condition: Up to 8" of debris on lower lat. conn. P.	
	W E	PP	L7	S side. Similar on W face, 4" debris	
	Up Down	Member	SW Joints		
1128	N (S)	Span No.	3	Condition: Note fine-medium size cracking in verge	
	(W) E	PP		S of breastwall + wide vertical crack at	
	Up Down	Member	S. abut	of roadway	
1124	(N) S	Span No.	3	Condition: Conn'l v/s, from L7 SW	
	W E	PP			
	Up Down	Member			
1130	N S	Span No.	3	Condition: Note & gusset P, not similar to	
	(W) E	PP	L7	L1 connection. Both are go from FBS etc.	
	Up Down	Member	SW	thru gusset to vertical. Gusset does not appear	
1131	(N) S	Span No.	3	Condition: to take significant load.	
	(W) E	PP	L7		
	Up Down	Member	SW	location same as above	
1132	N (S)	Span No.	3	Condition: Note 2 spalls + medium vertical crack from	
	W E	PP		top of wingwall to base	
	Up Down	Member	SE wing		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 4 of 10	
Project: _____					
Team Leader: _____		Date: _____		Bridge: _____	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1133	N S	Span No.	3	Condition: FBR along S. abut. backwall. Minimal	
	(W) E	PP		1/4" gap between FB fly + backwall.	
	Up Down	Member			
1134	N (S)	Span No.	3	Condition: (SW) ^{SW} gap bet. at S. abut. 3-4" debris	
	(W) E	PP	LB	accumulation cleaned from around masonry R ⁺	
	Up Down	Member	SW truss	upper shoe R. Debris filling exp. slots.	
1135	N (S)	Span No.	3	Condition: SW truss leg at S abut	
	W E	PP	LB		
	Up Down	Member	SW truss		
1136	N (S)	Span No.	3	Condition: Pin nut at SW leg is cracked. Inside	
	W (E)	PP	LB	(West) side. 2-3" debris accumulation at lower	
	Up Down	Member	SW truss	lft. connection R	
1137	N (S)	Span No.	3	Condition: Looking along bridge seat from SW truss	
	(W) E	PP	LB	Note active corrosion along FB bot. fly + sections of	
	Up Down	Member		web. 3-4" debris accumulates nearly full width of backwall	
1138	N (S)	Span No.	3	Condition: Between S3 + S4 at FBR. Note huge	
	W E	PP		am. + transverse cracks in deck over FB	
	Up Down	Member			
1139	(N) S	Span No.		Condition: Looking N along interior of 17-LB.	
	W E	PP		Typical condition of interior of both chord.	
	Up Down	Member	SW truss		
1140	N (S)	Span No.	3	Condition: Between S4 + S5: Active corrosion on end	
	W E	PP		FB web. Transverse cracks + effl. above FB Mt.	
	Up Down	Member	S abut	crack in backwall extending across the seat + connecting to	
1141	N (S)	Span No.	3	Condition: Crack in breastwall (see photo 1123)	
	W E	PP	LB	Between S5 + S6. Note abandoned previous electric	
	Up Down	Member		utility. End FB corrosion + deck slab effl.	
1142	N (S)	Span No.	3	Condition: Inside Case - note cracked pin nut w/	
	W E	PP	LB	lower half fallen away.	
	Up Down	Member	RW truss		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 5 of 10
Project:				
Team Leader: _____ Date: _____ Bridge: _____				
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
1143	N (S)	Span No.	3	Condition: RW truss brg at S abut.
	W E	PP	L8	
	Up Down	Member	RW truss	
1144	N (S)	Span No.	3	Condition: brg RW truss brg, span 3 at S abut.
	W E	PP	L8	Note 1/2" vertical gap. Photo taken after removing
	Up Down	Member	RW truss	debris between PP's
1145	N (S)	Span No.	3	Condition: RW truss brg, outside face. Note 1/2" gap between
	W (E)	PP	L8	Pin nut + side web PL + unpainted condition of pin
	Up Down	Member	RW truss	nut indicates it was installed since the last painting
1146	N (S)	Span No.	3	Condition: Note spalling along top of wingwall + rip
	W E	PP	L8	cracking along backwall.
	Up Down	Member	§	
1147	N (S)	Span No.	3	Condition: SW wing wall. brg heavy spalling along
	(W) E	PP		top of wingwall.
	Up Down	Member		
1148	N S	Span No.	3	Condition: Looking E along face of backwall.
	W (E)	PP		
	Up Down	Member		
1149	N S	Span No.	3	Condition: Deck slab at S abutment. Bituminous
	W (E)	PP		patch extends ~2ft into span from face of
	Up Down	Member		backwall.
1150	N S	Span No.	3	Condition: RW truss brg at S abut.
	W (E)	PP	L8	
	Up Down	Member	RW truss	
1151	N S	Span No.	3	Condition: Note left anchor bolt after cleaning slab +
	W E	PP	L8	flapping compared to right anchor bolt. Paint indication
	Up Down	Member	RW truss brg	shows that brg has likely not moved since last painting.
1152	(N) S	Span No.	3	Condition: anchor bolts + brg at were bending when breaking paint.
	W E	PP	L6	Note active corrosion + loss of paint on top
	Up Down	Member	RW truss	of bottom tie PL + lower 3" of vertical + gusset.

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 6 of 10	
Project: _____					
Team Leader: _____		Date: _____		Bridge: _____	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1153	(N) S	Span No.	3	Condition: Vertical bend in lower lateral brace from span 2	
	W E	PP		↳ L6 RW to L5 SW	
	Up Down	Member			
1154	N S	Span No.	1	Condition: Note $\frac{1}{2}$ " vertical displacement at corner of FB.	
	(W) E	PP	L5	Lower lat. conn. PL displaced w/ pack rust.	
	Up Down	Member	RW truss		
1155	N (S)	Span No.	1	Condition: Between S5+6 + between FB5+6	
	W E	PP		Note to lower form at downspout.	
	Up Down	Member	RW truss		
1156	N (S)	Span No.	1	Condition: Same location opposite truss. Formwork	
	W (E)	PP		dangling from downspout repair.	
	Up Down	Member	SW truss		
1157	N (S)	Span No.	1	Condition: Note FB branch spalls between S4+5 and	
	W E	PP		S5+6, N side of FB5	
	(Up) Down	Member	FB5		
1158	(N) S	Span No.	1	Condition: Similar condition at S side of FB4, all	
	W E	PP		3 stringer bays under roadway.	
	(Up) Down	Member	FB6		
1159	N (S)	Span No.	1	Condition: N face of Pier 1. Note spalls + scaling	
	W E	PP		on upstream half.	
	Up Down	Member	Pier 1		
1160	(N) S	Span No.	1	Condition: Looking N along RW fascia in Span 1	
	W E	PP		from L4	
	Up Down	Member	RW truss		
1161	N (S)	Span No.	1	Condition: 2 1/2" square spalls up to 4" deep w/ rebar	
	W (E)	PP		fract. between S3+S4 and FB4+FB5	
	Up Down	Member			
1162	(N) S	Span No.	1	Condition: Between FB4+5, deck it between S2+3	
	(W) E	PP		Note vert. long. gap at SW-RW deck slab	
	(Up) Down	Member		interface. Rust staining + moisture leakage signs.	

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 7 of 10
Project:				
Team Leader: _____ Date: _____ Bridge: _____				
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
1163	N <input checked="" type="radio"/> S	Span No.	1	Condition: FB branch span, N. face of FBG, between 5 S3+4 and S4+5
	W E	PP		
	<input checked="" type="radio"/> Up Down	Member	FBG	
1164	<input checked="" type="radio"/> N S	Span No.	1	Condition: Impact damage to LSUS member, RW truss. Twisting at railing height
	W E	PP	RW truss	
	<input checked="" type="radio"/> Up Down	Member	LS-US	
1165	N <input checked="" type="radio"/> S	Span No.	1	Condition: 1" deformation in flg, likely due to vehicle impact.
	W E	PP	RW truss	
	<input checked="" type="radio"/> Up Down	Member	L6-U6	
1166	<input checked="" type="radio"/> N S	Span No.	1	Condition: Bent flg + twisting of member
	W E	PP	LS-US	
	<input checked="" type="radio"/> Up Down	Member	RW truss	
1167	<input checked="" type="radio"/> N S	Span No.	1	Condition: Same condition as above
	W E	PP	LS-US	
	<input checked="" type="radio"/> Up Down	Member	RW truss	
1168	N S	Span No.	1	Condition: Same condition, looking W
	<input checked="" type="radio"/> W E	PP	LS-US	
	<input checked="" type="radio"/> Up Down	Member	RW truss	
1169	N S	Span No.	1	Condition: Note welded IP on vertical just below sway frame, covering old holes. Typical at every sway frame.
	W E	PP	L4-U4	
	<input checked="" type="radio"/> Up Down	Member	RW truss	
1170	N <input checked="" type="radio"/> S	Span No.	1	Condition: Looking S along RW fascia
	W E	PP		
	<input checked="" type="radio"/> Up Down	Member		
1171	<input checked="" type="radio"/> N S	Span No.	1	Condition: Looking N along RW fascia
	W E	PP		
	<input checked="" type="radio"/> Up Down	Member		
1172	<input checked="" type="radio"/> N S	Span No.	1	Condition: Grail of N. Abut.
	W E	PP	LO	
	<input checked="" type="radio"/> Up Down	Member	N. Abut	

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 8 of 10	
Project:					
Team Leader:		Date:		Bridge:	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1173	(N) S	Span No.	1	Condition: Gen'l of NW Wingwall	
	W E	PP			
	Up Down	Member	NW wingwall		
1174	(N) S	Span No.	1	Condition: N. Abutment RW truss leg	
	(W) E	PP	L0		
	Up Down	Member	RW truss		
1175	(N) S	Span No.	1	Condition: View along bridge seat. Minor debris accumulation	
	W (E)	PP			
	Up Down	Member	N Abut		
1176	N (S)	Span No.	1	Condition: Medium transverse crack, full width of deck	
	W E	PP		between S3+S6 (photo between S4+S5)	
	(Up) Down	Member		between FB1+FB0	
1177	(N) S	Span No.	1	Condition: SW truss leg of N Abut	
	W (E)	PP	L0		
	Up Down	Member	SW truss		
1178	(N) S	Span No.	1	Condition: Looking at FB0 between S5+S4. FR	
	W E	PP		hunch spill.	
	(Up) Down	Member	FB0		
1179	(N) S	Span No.	1	Condition: SW truss leg on N abut. outside	
	(W) E	PP	L0	Face	
	Up Down	Member	SW truss		
1180	(N) S	Span No.	1	Condition: NE wing wall. Note minor cracking	
	W E	PP		w/ effl.	
	Up Down	Member	NE Wing		
1181	N (S)	Span No.	3	Condition: 1/2 to 8" debris accumulation on lower ht.	
	W E	PP	L4	conc. R. typical both sides of L4UY vertical	
	Up Down	Member	SW truss		
1182	N S	Span No.	3	Condition: Gen'l of outside face of girder	
	(W) E	PP	L4		
	(Up) Down	Member	SW truss		

Work ended ~ 5 pm
 8/13/2012
 Remaining: Span 2
 + 3 L4, SW truss
 Need Measurements
 also photos of 8" debris
 legs from site
 slabs.

Presented ↓
 7:30 AM
 8/14/12

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 9 of 10	
Project:					
Team Leader:		Date: 8/14/2012		Bridge:	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1183	N S	Span No.	3	Condition: Gen'l of ext. face	
	(W) E	PP	L3		
	(Up) Down	Member	SW truss		
1194	N S	Span No.	3	Condition: Gen'l on ext. face	
	(W) E	PP	L2		
	(Up) Down	Member	SW truss		
1185	N (S)	Span No.	3	Condition: Gen'l along SW truss top chord, taken from U2	
	W E	PP			
	Up Down	Member	SW truss		
1186	N (S)	Span No.	3	Condition: Gen'l of top chord lat. bracing	
	(W) E	PP			
	Up Down	Member			
1187	(N) S	Span No.		Condition: Looking N towards span 2, taken from span 3 U2 SW	
	W E	PP			
	Up Down	Member			
1188	(N) S	Span No.	1	Condition: SW truss leg at N abutment, from outside	
	W (E)	PP			
	Up Down	Member	SW truss		
1189	N S	Span No.	1	Condition: Same as above	
	W (E)	PP			
	Up Down	Member	SW truss		
1190	N S	Span No.		Condition: Downstream waterway	
	W (E)	PP			
	Up Down	Member			
1191	N S	Span No.		Condition: Up stream waterway	
	(W) E	PP			
	Up Down	Member			
1192	N (S)	Span No.	2	Condition: Upper chord from U2.	
	W E	PP			
	Up Down	Member	SW		

remains
to be
checked
for
slippage
at
base

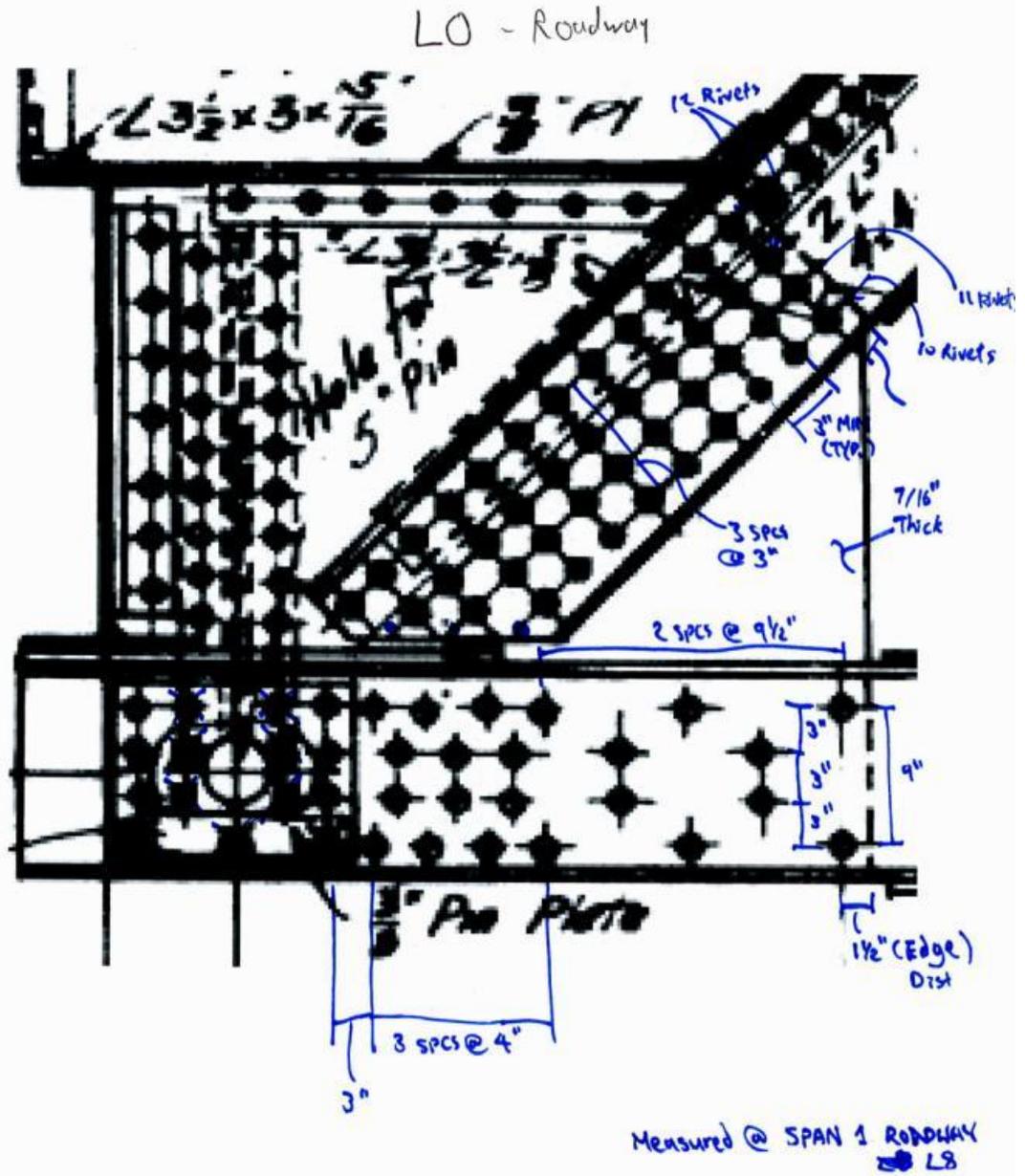
Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 10 of 10	
Project: _____					
Team Leader: _____		Date: _____		Bridge: _____	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
1193	(N) S	Span No.	3	Condition: Crack from Span 2 U2, top of truss	
	W E	PP			
	Up Down	Member	SW truss		
1194	N (S)	Span No.	2	Condition: Top lateral bracing from U2 SW	
	(W) E	PP			
	Up Down	Member			
1195	(N) S	Span No.	2	Condition: Crack of ext. face	
	(W) E	PP	L2		
	Up Down	Member	SW truss		
1196	N S	Span No.	2	Condition: Crack of ext. face	
	(W) E	PP	L3		
	Up Down	Member	SW truss		
1197	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			

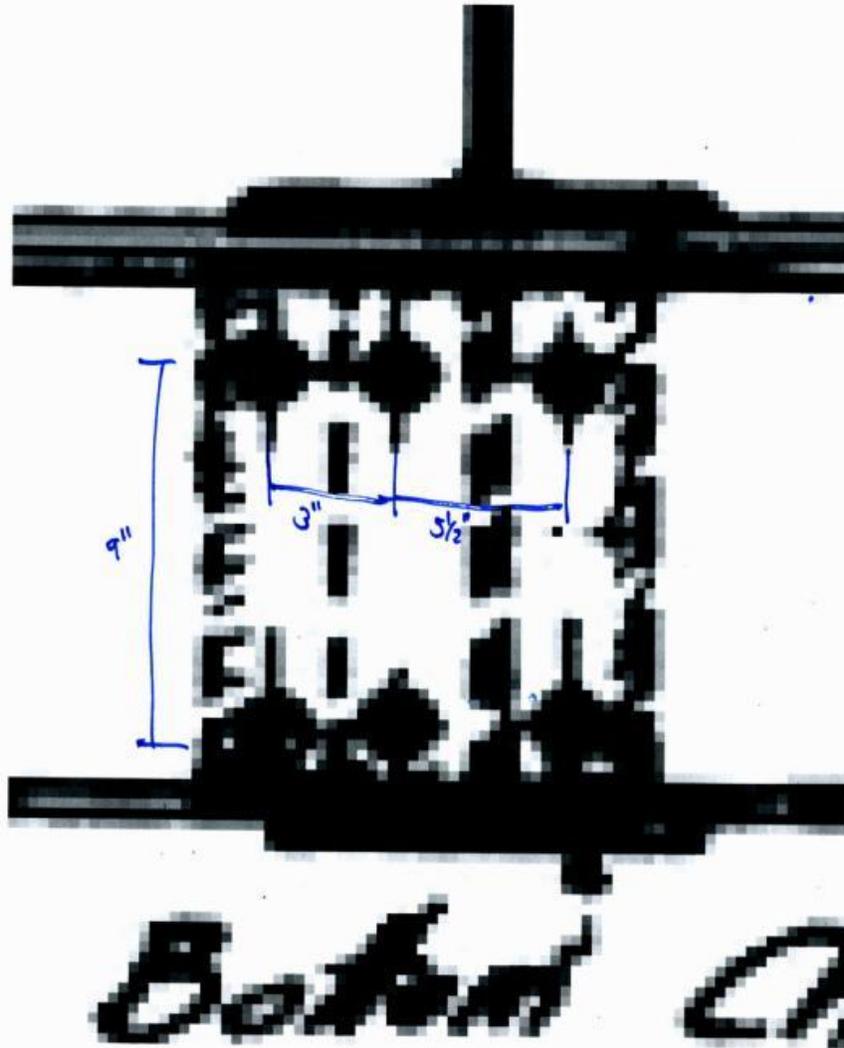
Q:\STR\photo log.xls

1 of 10



2 OF 10

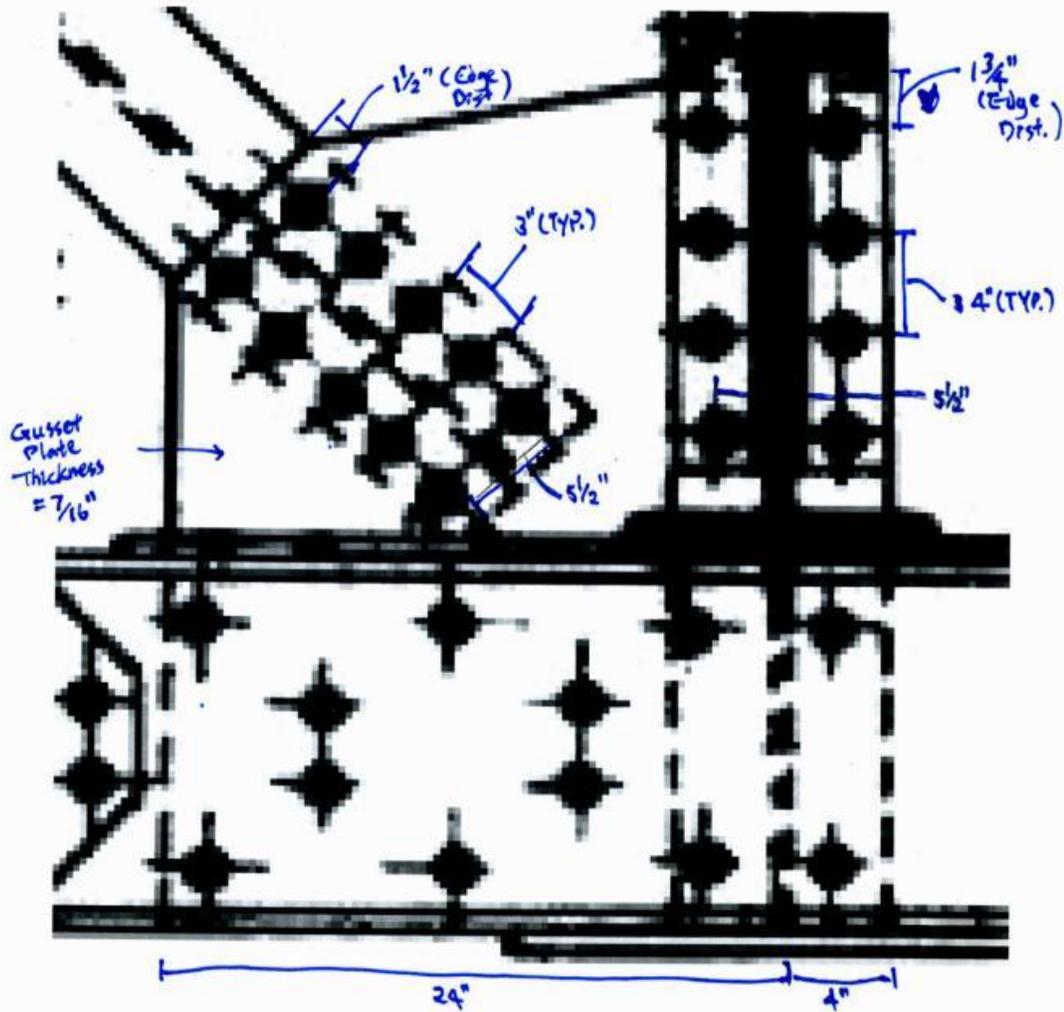
RDWY L1



Measured @
SPAN 1 ROADWAY
L7

3 OF 10

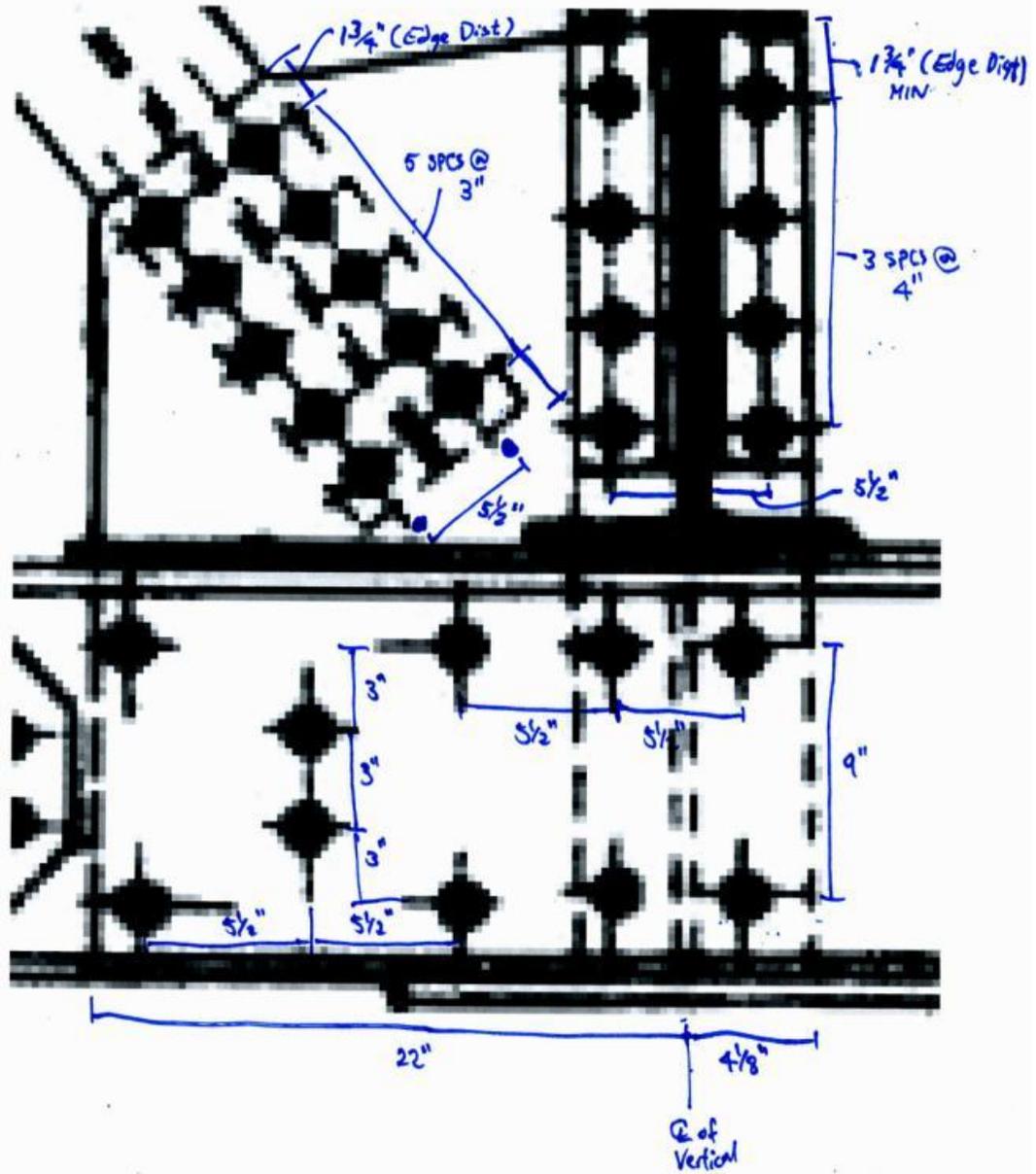
RDWY L2



Measured @ span 1 West L6 Roadway

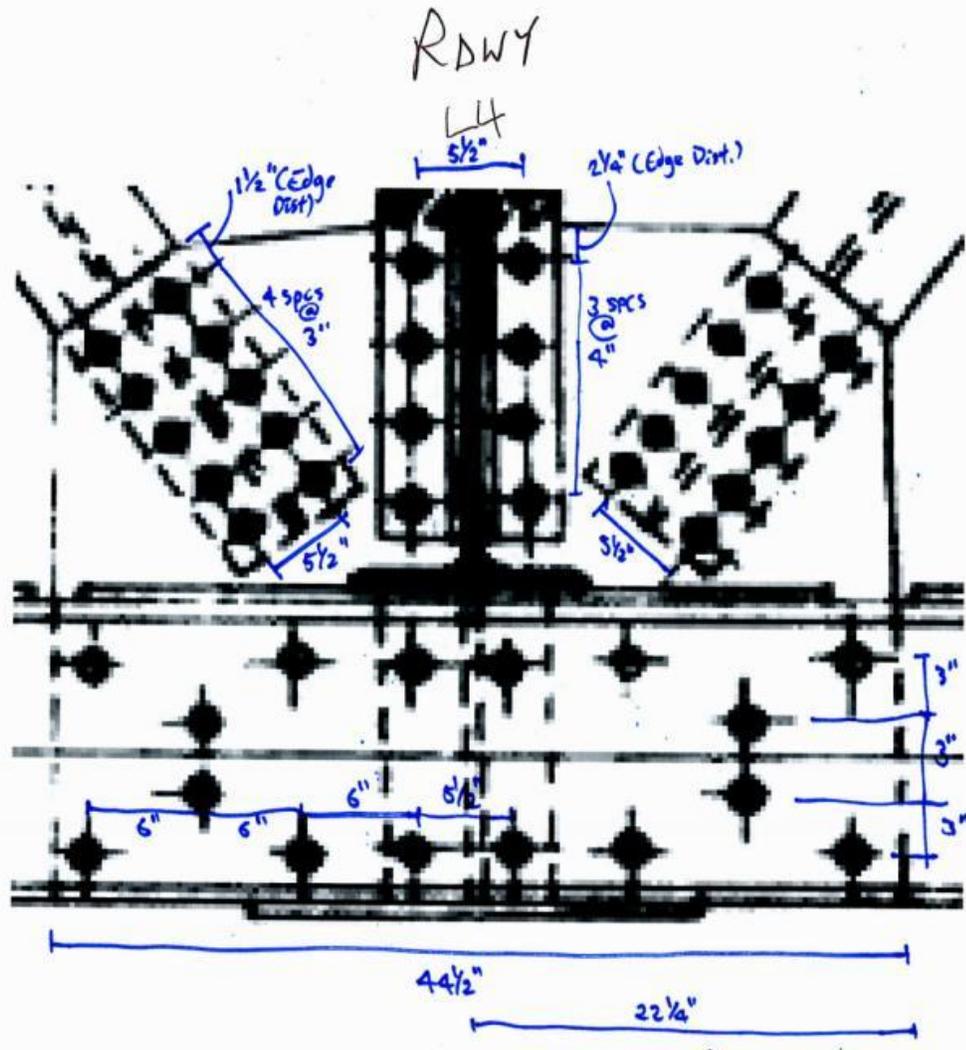
4 of 10

Rdwy L3



Measured @ Span 2
Roadway L3

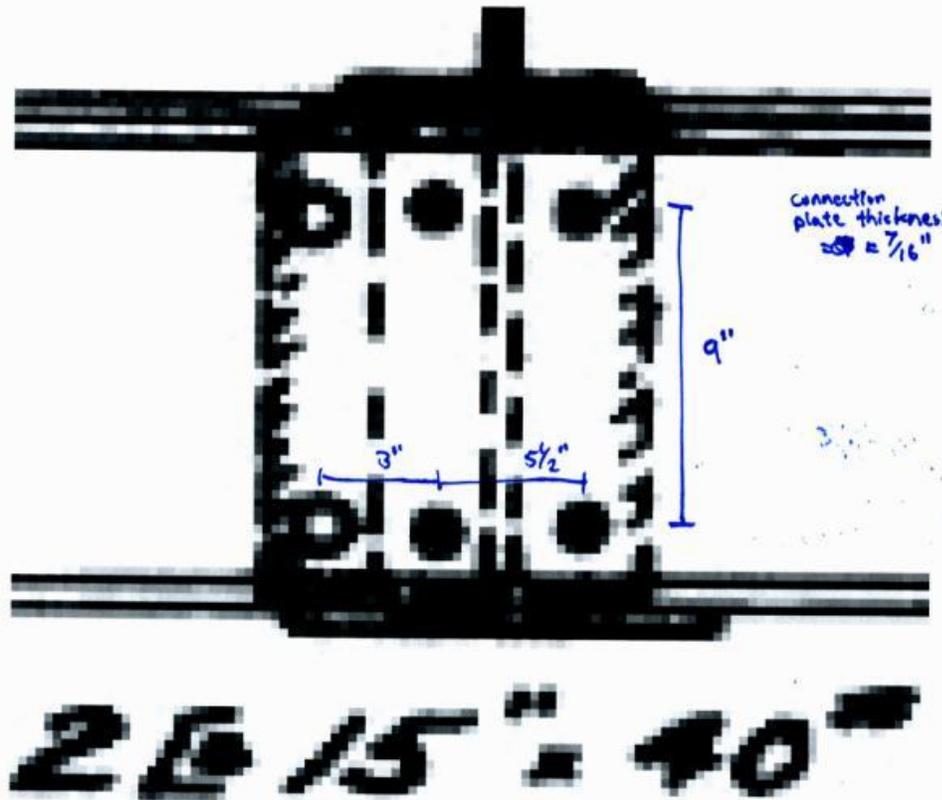
5 of 10



Measured @ Span 2 Roadway L4

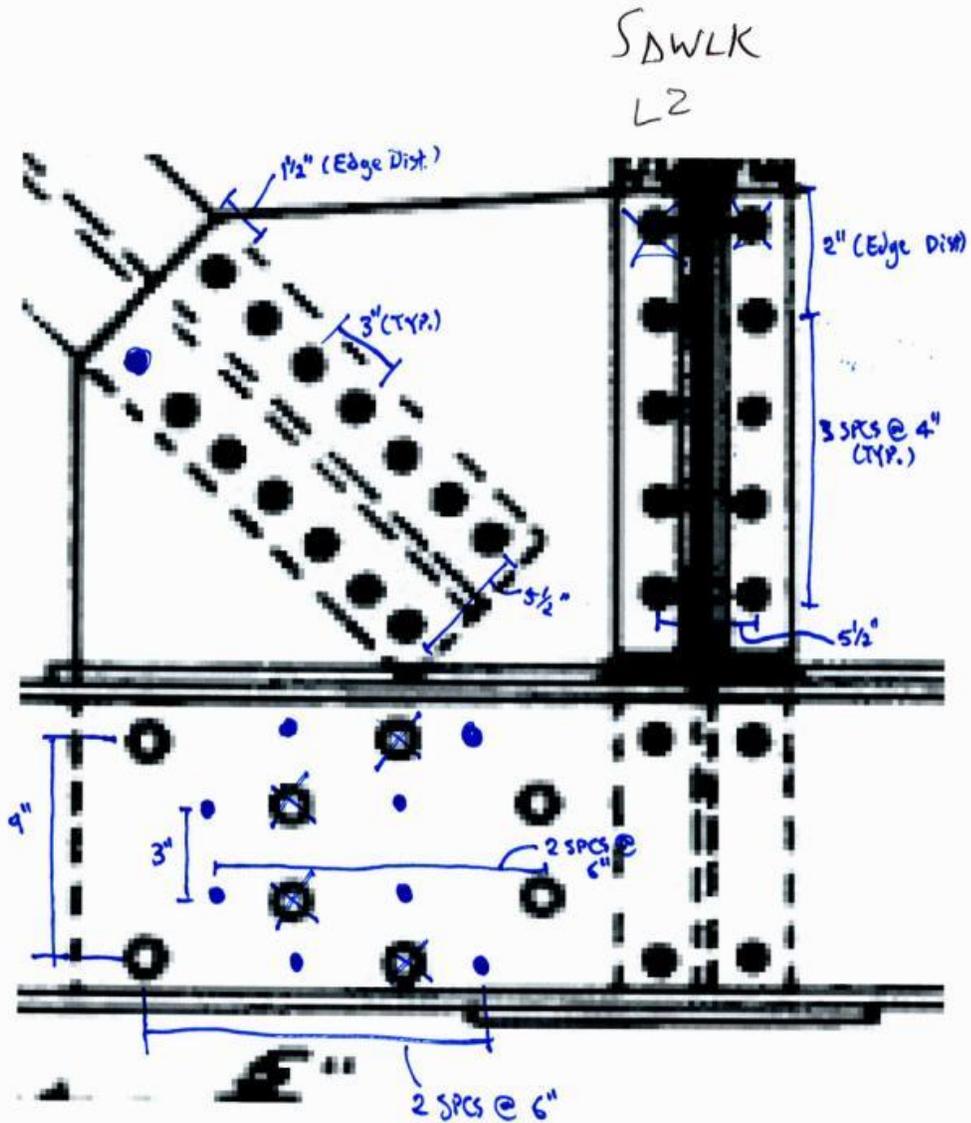
7 of 10

SDWLK
L1



Measured @ Span & Sidewalk L1

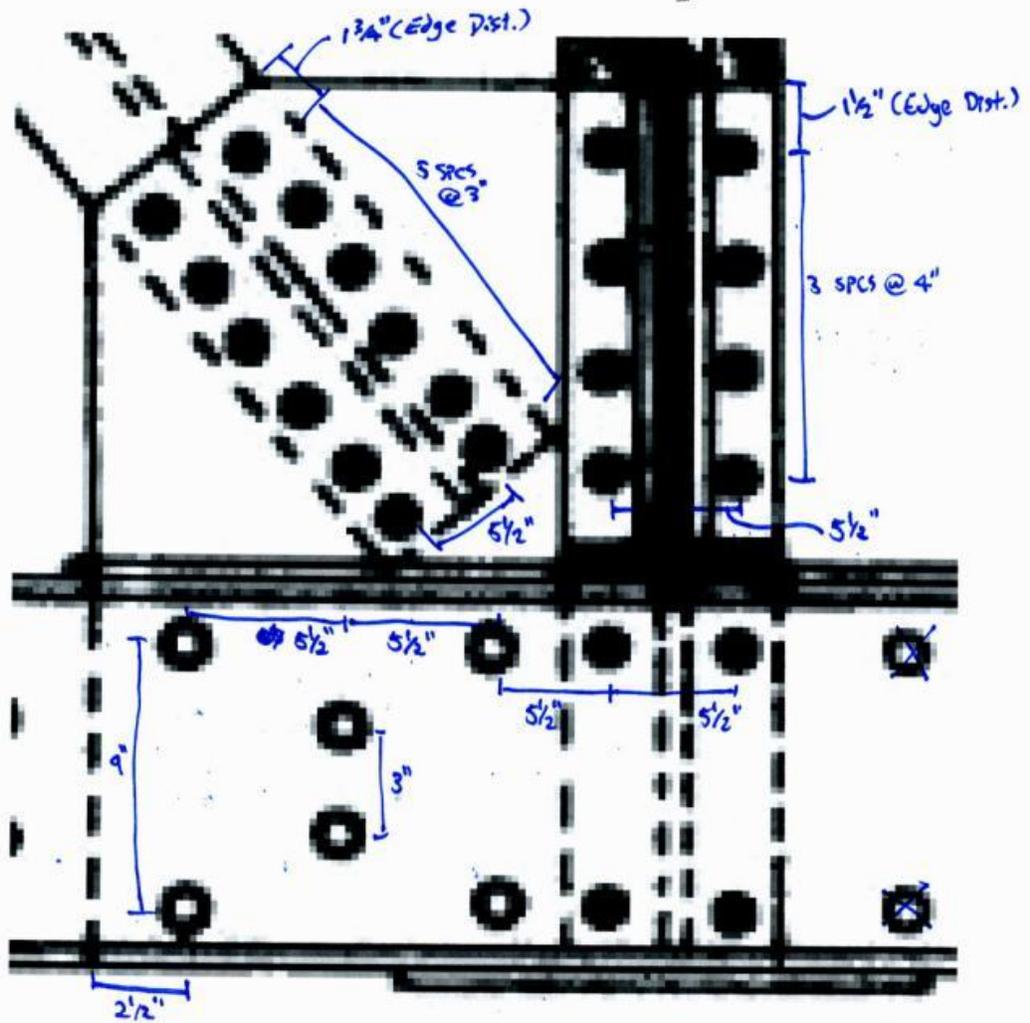
8 of 10



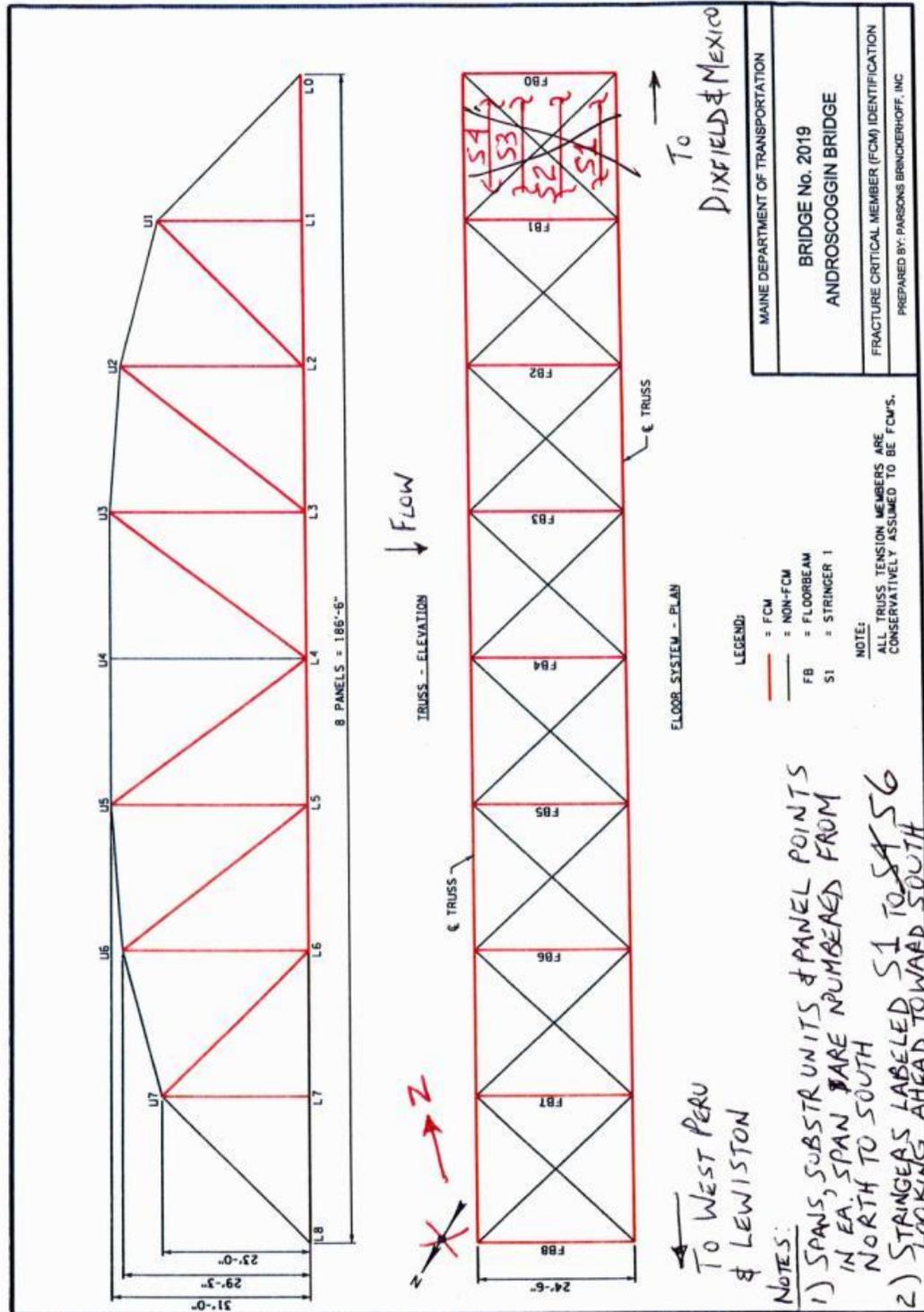
Measured @ SPAN 1 L6 Sidewalk

9 of 10

SDWLK
L3



Measured @ Span 2 Sidewalk L3



MAINE DEPARTMENT OF TRANSPORTATION
BRIDGE No. 2019
ANDROSCOGGIN BRIDGE
FRACTURE CRITICAL MEMBER (FCM) IDENTIFICATION
PREPARED BY: PARSONS BRINCKERHOFF, INC

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 1 of 16	
Project: MAINE TRUSS					
Team Leader: R.S. - AMK Date: 8/10/12 Bridge: 2019					
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6697	(N) S	Span No.	3	Condition: GEN. PORTAL BRACING @ U7 W.	
	W E	PP	L8 W.		
	(Up) Down	Member			
6698	(N) S	Span No.	3	Condition: GEN. PORTAL BRACING @ UP TOP	
	W E	PP		LAT. CONN. RS - PAINT GOOD	
	Up (Down)	Member			
6699	(N) S	Span No.	3	Condition: GEN. U7-U6 TOP LAT BRACING	
	W E	PP			
	Up Down	Member			
6700	(N) S	Span No.	3	Condition: GEN. PORTAL BRACING @ U7. EAST	
	W (E)	PP	U7	SIDE, NOTE H.S. BOLTS @ BOT. OF PORTAL FRAME	
	Up (Down)	Member		BOT MOVED UP DIAG. APPROX 2'	
6701	(N) S	Span No.	3	Condition: ORIGINAL CONN. R @ BOT OF PHOTO	
	(W) E	PP		BOT. OF PORTAL FRAME MOVED UP TO TOP OF PHOTO	
	Up (Down)	Member	U9LB	CONN. R W/H.S. BOLTS	
6702	N (S)	Span No.	3	Condition: COLLISION SCRAPES HALFWAY UP	
	(W) E	PP		MEMBER. SAME ON MEMBER L609	
	Up Down	Member	L909		
6703	N S	Span No.	3	Condition: ALONG TOP OF PORTAL FRAME	
	W (E)	PP	U7	TO U7 E.	
	Up Down	Member			
6704	N S	Span No.	3	Condition: GEN OF INSIDE U7 E.	
	W (E)	PP	U7		
	Up Down	Member			
6705	N S	Span No.	3	Condition: GEN INSIDE U7 W	
	W E	PP	U7 W.		
	Up Down	Member			
6706	(N) S	Span No.	3	Condition: ALONG ^{OUTSIDE INT. PANEL} OF U9LB W. TO	
	W E	PP	U7 W	JOINT U7 W. RIVETS ON R IN DOUBLE	
	(Up) Down	Member		SHEAR	

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

AMC

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 3 of 16
Project:				
Team Leader:		Date: 9/16/12	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
6709	N S	Span No.	3	Condition: INSIDE MEMBER U9LB BTW GUSSETS
	W E	PP	U7 W.	
	Up Down	Member		
6708	N (S)	Span No.	3	Condition: COLLISION DAMAGE ON U9LB U9LB
	(W) E	PP		3/4" WAY UP POST @ ORIGINAL PORTAL
	Up Down	Member	U9LB W.	FRAME IR
6709	N S	Span No.	3	Condition: COLLISION DAMAGE ON U9LB 1/4 WAY
	W E	PP		UP.
	Up Down	Member	U9LB W.	
6710	(N) S	Span No.	3	Condition: GEN. TOP OF BRIDGE FROM BTW.
	W E	PP		UGU9
	Up Down	Member		
6711	(N) S	Span No.	3	Condition: GEN. CONN. @ U9 W.
	W E	PP	UG W.	
	Up Down	Member		
6712	(N) S	Span No.	3	Condition: TOP LAT DIA BRACING
	W (E)	PP		NO BENDS OR TWISTS
	Up Down	Member		
6713	(N) (S)	Span No.	3	Condition: //
	W (E)	PP		
	Up Down	Member		
6714	(N) S	Span No.	3	Condition: BENDS IN BRIDGE DUE TO
	W E	PP	U+5 W.	COLLISION DAMAGE SIMILAR THROUGHOUT
	Up Down	Member		
6715	(N) S	Span No.	3	Condition: SCRAPE IN SM HORIZ. STRUTS
	W E	PP		W. TRUSS FULL LENGTH
	Up Down	Member		
6716	N (S)	Span No.	3	Condition: GEN. CONN. OF SWAY BRACING
	W E	PP		TO VERT MEMBER, SIM. EAST TRUSS LGU9
	Up Down	Member	LGUG W.	

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Project: AMC		Daily Page Number 4 of 16	
Team Leader: _____		Date: 8/10/12		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6717	N S	Span No.	3	Condition: LOOKING ALONG BOT. OF SWAY			
	W (E)	PP	60	BRACING BTW VERT @ LGWG. COLLISION			
	Up Down	Member		DAMAGE IN N.B. LANE			
6718	N S	Span No.	3	Condition: GEN FROM TOP OF HORIZ. STRUT			
	(W) E	PP		CONN. TO VERT MEMBER			
	Up (Down)	Member	LGWG				
6719	N S	Span No.	3	Condition: DOWN ALONG SWAY BRACING			
	W (E)	PP	6W	GEN IN DIAG. SWAY BRACING			
	Up (Down)	Member		FROM COLLISION @ EOT			
6720	N S	Span No.	3	Condition: ALONG TOP STRUT @ UG TO			
	W (E)	PP	UG E	UG E GEN OF UG E. G.R			
	Up Down	Member					
6721	N S	Span No.	3	Condition: SAME CLOSE UP			
	W (E)	PP	UG E				
	Up Down	Member					
6722	N S	Span No.	3	Condition: INT SPLICE PLATE @ TOP			
	(W) E	PP	UGW.	CHORD MEMBERS - GUSSETS IN			
	Up Down	Member		GOOD COND. NO PAINT FAILURES OR WEARS			
6723	N S	Span No.	3	Condition: G. BOT OF G. R @ DIA. LGUG			
	(W) E	PP	UGW.	CONN. SEE NEXT SHEET FOR DIMS			
	Up Down	Member					
6724	(N) S	Span No.	3	Condition: GEN ALONG SWAY BRACING			
	W E	PP					
	Up Down	Member					
6725	(N) S	Span No.	3	Condition: GEN. OF CONN.			
	W (E)	PP	US E.				
	(Up) Down	Member					
6726	(N) S	Span No.	3	Condition: GEN. OF CONN.			
	W E	PP	US W.				
	(Up) Down	Member					

Q:\STR\photo log.xls

AMC

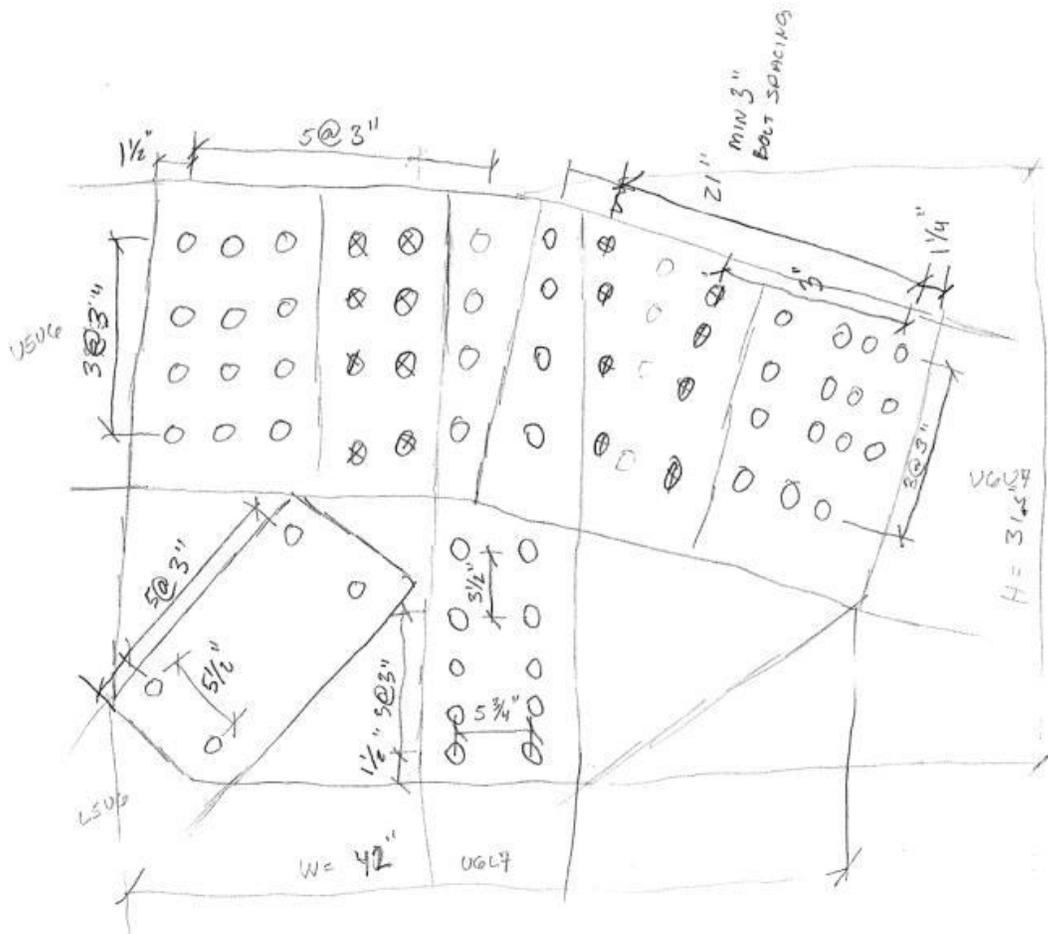
pg 5 of 16

8/10

2019

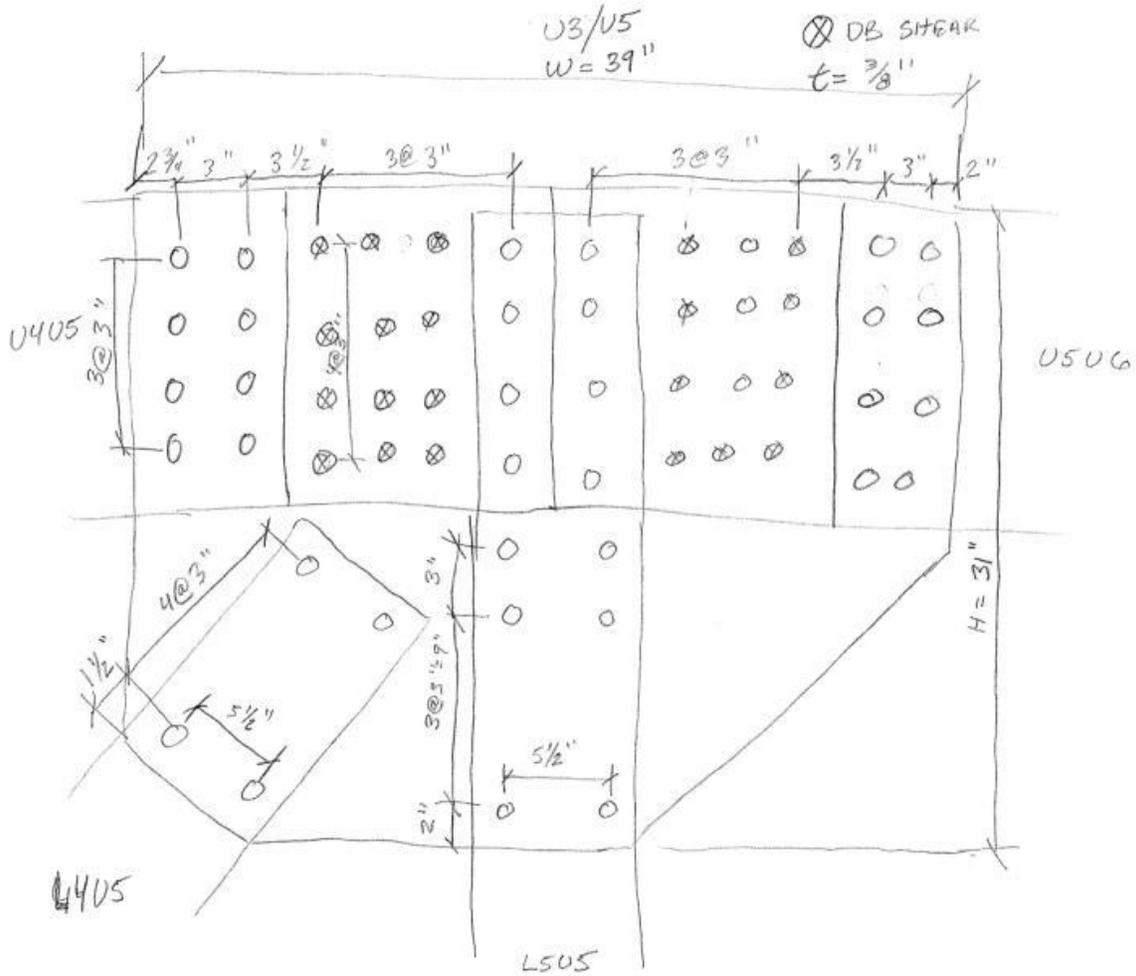
v2/06

⊗ DB SHEAR
 $t = 3/8"$



AMC
 8/10 2019

Page 6 of 16



Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG					Daily Page Number 7 of 16
Project:		AMC			
Team Leader:		Date: 9/10	Bridge: 2019		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6727	N S	Span No.	3	Condition: COLLISION SCRAPES HALF WAY	
	(W) E	PP	SW	UP LSUS	
	Up Down	Member	LSUS		
6728	N S	Span No.	3	Condition: GEN OF SWAY BRACE CONN.	
	(W) E	PP	S	UNDERSIDE - NO TACK WELDS	
	(Up) Down	Member	LSUS		
6729	N (S)	Span No.	3	Condition: FRESH PAINT N. FACE OF DIAG.	
	(W) E	PP		MINOR SCRAPES FROM COLLISION	
	Up Down	Member	LSUS	ON IN E. FLANGE	
6730	N S	Span No.	3	Condition: MINOR RUSTING + PAINT LOSS	
	W (E)	PP	S	IN VERT. MEMBER OF SWAY BRACING	
	Up Down	Member			
6731	N S	Span No.	3	Condition: GEN OF INT GUSSET PL US W, W,	
	W E	PP	US W	SPACE PL @ JOINT OF TOP CHORD	
	Up Down	Member		MEMBERS	
6732	N (S)	Span No.	3	Condition: BTW G. R. ALONG VERT MEMBER	
	(W) E	PP	US W	LSUS VERT RUNS TO NEAR TOP	
	(Up) Down	Member		OF GUSSET PL THROUGH TOP CHORD CHANNEL	
6733	N S	Span No.	3	Condition: UNDERSIDE OF LAT CONN. R	
	(W) E	PP	US W	NEW PAINT	
	(Up) Down	Member			
6734	(N) S	Span No.	3	Condition: BTW G R ALONG VERT.	
	(W) E	PP	US W	S. SIDE OF CONN.	
	(Up) Down	Member			
6735	(N) S	Span No.	3	Condition: TOP OF BRIDGE GEN	
	W E	PP			
	Up Down	Member			
6736	(N) S	Span No.	3	Condition: TOP OF BRIDGE GEN	
	W (E)	PP			
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				AMC		Daily Page Number 8 of 16	
Project:							
Team Leader:		Date: 8/10		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6737	N S	Span No.	3	Condition: MAP CRACKING OF PAINT E. SIDE			
	(W) E	PP		OF DIA. 3/4 WAY UP			
	Up Down	Member	L4U5				
6738	N S	Span No.	3	Condition: PAINT PITTING W/ RUST 1' LONG			
	W E	PP	5	WELDS			
	Up (Down)	Member	L5U6				
6739	N S	Span No.	3	Condition: S. PORTAL COLLISION DAMAGE			
	(W) (E)	PP		N.B. LANE			
	(Up) Down	Member					
6740	(N) S	Span No.	3	Condition: TYP RAIL CONN. @ DIA.			
	W E	PP		NO TACK WELDS			
	Up Down	Member					
6741	(N) S	Span No.	3	Condition: TYP RAIL CONN. @ VERT			
	W E	PP		NO TACK WELDS			
	Up Down	Member					
6742	N S	Span No.	3	Condition: SCRAPE FROM COLLISION JUST			
	(W) E	PP	4	BELOW SWAY BRACE, HINDR			
	Up Down	Member	L4U4 W.				
6743	N S	Span No.	3	Condition: SWAY BRACE COLLISION DAMAGE TO			
	W (E)	PP	4	BOT OF SWAY BRACE FRAME			
	(Up) Down	Member					
6744	N S	Span No.	3	Condition: SWAY BRACE COLLISION DAMAGE			
	W (E)	PP	4	MAINLY TWISTED IN NB LANE			
	Up Down	Member		2" MAX ANGLE FLANGE DENT IN VERT W/ HORIZ. LEGS			
6745	N (S)	Span No.	3	Condition: SWAY BRACE COLLISION DAMAGE TO			
	W (E)	PP		IN S.B. LANE			
	Up Down	Member		ZOOM OF S.B. ANGLE LEG DENT			
6746	(N) S	Span No.	3	Condition: GEN TOP CHORD MEMBER			
	(W) E	PP		E. FACE			
	Up Down	Member	U5U4				

Q:\STR\photo log.xls

pg 9 of 16

AMC
8/10 2019

RDWY

U4 NO G. FE



Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Project: AMC		Daily Page Number 10 of 16	
Team Leader: _____		Date: 8/10		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6747	N S	Span No.	3	Condition: GEN U4E INSIDE OF TRUSS			
	W (E)	PP	4E	NO G.R @ T LOCATION. VERT. GOES			
	Up Down	Member		UP THROUGH TOP CHORD FOR CONN.			
6748	(N) S	Span No.	3	Condition: ALONG TOP LAT BRACING NO			
	W (E)	PP		BENDS OR KINKS			
	Up Down	Member					
6749	N (S)	Span No.	3	Condition: GEN U4W @ N. FACE OF			
	(W) E	PP	4W.	CONN.			
	Up Down	Member					
6750	N S	Span No.	3	Condition: BIRDS NEST ON N. SIDE OF			
	(W) E	PP	U4W	CONN. PL			
	Up Down	Member					
6751	N S	Span No.	3	Condition: BOT. OF CONN. R @ U4W			
	(W) E	PP	U4W.				
	(Up) Down	Member					
6752	(N) S	Span No.	3	Condition: ALONG INSIDE FACE OF TOP CHORD			
	W E	PP		MEMBER U3U4			
	Up Down	Member	U3U4				
6753	N (S)	Span No.	3	Condition: INSIDE END OF TOP CHORD @ CONN			
	(W) E	PP	U4E.	VERT MEMBER ALL THE WAY THROUGH			
	(Up) Down	Member		TOP CHORD			
6754	(N) S	Span No.	3	Condition: GEN INSIDE MEMBER			
	W E	PP		GOOD PAINT - NO TACKWELD			
	Up Down	Member	U3U4				
6755	N S	Span No.		Condition: MISSING BOLTS @ RAIL CONN.			
	(W) E	PP		TO DIAGONAL U3L4			
	Up Down	Member	U3L4				
6756	N S	Span No.	3	Condition: WELDED R JUST BELOW BOT OF			
	(W) E	PP	3	SWAY BRACING - WELDED FULL LENGTH			
	Up Down	Member	L3U3	ALL 4 SIDE			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				AMC		Daily Page Number 11 of 16	
Project:							
Team Leader:				Date: 8/10		Bridge: 2019	
PHOTO #	DIRECTION		LOCATION		DESCRIPTION		
6757	N	S	Span No.	3	Condition: HOLES THAT ARE BEING COVERED BY WELDED IR WHERE SWAY BRACE CONN. USED TO BE → SIM ON E. TRUSS L303		
	W	E	PP				
	Up	Down	Member	L303			
6758	N	(S)	Span No.	3	Condition: SWAY BRACING CONN. TO L303 ABOVE WELDED R SIM. E. TRUSS L303		
	(W)	E	PP				
	(Up)	Down	Member	L303			
6759	N	S	Span No.	3	Condition: W.H.S. BOLTS USED IN PLACE OF RIVET THAT WERE REMOVED W/ SWAY BRACING WAS RAISED - SIM E. TRUSS L303		
	(W)	E	PP				
	Up	Down	Member	L303			
6760	N	S	Span No.	3	Condition: COLLISION DAMAGE TO SWAY BRACE. N.B. LANE		
	W	(E)	PP	3			
	Up	Down	Member				
6761	N	(S)	Span No.	3	Condition: GEN VIEW OF SWAY BRACE CONN. TO L303 @ NEW LOCATION		
	(W)	E	PP	3			
	Up	(Down)	Member	L303			
6762	N	(S)	Span No.	3	Condition: NEW H.S. BOLTS ON CONN. IR OF SWAY FROM @ P.P. 3		
	W	(E)	PP	3			
	(Up)	Down	Member				
6763	N	(S)	Span No.	3	Condition: SWAY BRACE BEND 1/2 DIA FROM COLLISION		
	W	(E)	PP	3			
	(Up)	Down	Member				
6764	N	(S)	Span No.	3	Condition: SAME AS 6760 EXCEPT LOOKING DOWN		
	W	(E)	PP	3			
	Up	(Down)	Member				
6765	(N)	S	Span No.	3	Condition: TOP LAT BRACING BTW P.P. 2+3 NO BENDS - GEN		
	W	(E)	PP				
	(Up)	Down	Member				
6766	N	(S)	Span No.	3	Condition: GEN. INSIDE OF CONN. @ U3 W. LAT. CONN. GUSSET R SAME AS U5		
	(W)	E	PP	U3 W.			
	Up	Down	Member				

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 12 of 16	
Project: AMC					
Team Leader:		Date: 8/10	Bridge: 2019		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6767	N S	Span No.	3	Condition: BEND IN BOT FLG OF STRUT	
	W E	PP	U3 W.	@ CONN TO U3 W.	
	Up Down	Member			
6768	N S	Span No.	3	Condition: MINOR CORROSION AT TOP PL	
	W E	PP	U3 W.	OF TOP LATERAL CONN. TO U3 W.	
	Up Down	Member			
6769	N S	Span No.	3	Condition: SPLICE PL @ U3 + SAME AS	
	W E	PP	U3 W.	U3 CONN	
	Up Down	Member			
6770	N (S)	Span No.	3	Condition: GEN ALONG HORIZ. STRUTS	
	W E	PP		W. TRUSS → E. FACE	
	Up Down	Member			
6771	N (S)	Span No.	3	Condition: SWAY BRACING @ P.P. 2	
	(W) E	PP	2	NO OBVIOUS COLLISION DAMAGE	
	(Up) Down	Member			
6772	N (S)	Span No.	3	Condition: SAME WELDED PLATE AS	
	(W) E	PP		SWAY CONN. TO L3U3 NO HOLES BEHIND	
	(Up) (Down)	Member	L2U2	SWAY BRACE WAS NOT MOVED @ L2U2 W @ E	
6773	N (S)	Span No.	3	Condition: SAME AS ABOVE BUT LOOKING	
	(W) E	PP	2	DOWN	
	Up (Down)	Member			
6774	N S	Span No.	3	Condition: BEND IN DIAG. OF SWAY BRACING	
	W (E)	PP	2	NO OBVIOUS COLLISION DAMAGE @ BOT.	
	(Up) Down	Member		ORIG RIVETS IN CONN. PL	
6775	N S	Span No.	3	Condition: GEN UPSTREAM WATERWAY	
	W E	PP			
	Up Down	Member			
6776	N S	Span No.	3	Condition: PORTAL BTW U1E + U1W @ PIER 2	
	W E	PP		SIM TO S. PORTAL OF SPAN 3	
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 13 of 16	
Project:				AMC	
Team Leader:		Date: 8/10		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6777	(N) S	Span No.	3	Condition: S. FACE OF N. PORTAL ON SPAN	
	W E	PP	1	3. NOTE REPLACED 115 BOLTS	
	Up Down	Member			
6778	(N) S	Span No.	3	Condition: COLLISION DAMAGE TO BRIDGE	
	(W) E	PP		RAIL @ U12	
	Up Down	Member	V12W		
6779	N (S)	Span No.	3	Condition: SAME AS NEXT	
	(W) E	PP			
	(Up) Down	Member			
6780	N (S)	Span No.	3	Condition: BEND PT OF BOT FLG OF STRUT	
	(W) E	PP	V2	INTO CONN. R. TYP TO FIT PLATES	
	Up Down	Member		N. FACE OF STRUT	
6781	(N) S	Span No.	3	Condition: ALONG TOP LATS - GEN	
	W (E)	PP			
	Up Down	Member			
6782	N (S)	Span No.	3	Condition: GEN SPAN 3 LOOKING SOUTH	
	W E	PP		FROM V2	
	Up Down	Member			
6783	N S	Span No.	3	Condition: GEN UNDER LOWER CONN	
	(W) E	PP	V2W	R TO TOP LATS. A LITTLE DIRTY. BUT	
	(Up) Down	Member		NO CORROSION OR PAINT FAILURES	
6784	N (S)	Span No.	3	Condition: GEN ALONG TOP CHORD E. FACE	
	W E	PP		(INSIDE)	
	Up Down	Member	V1V2		
6785	(N) S	Span No.	3	Condition: GEN ALONG TOP OF TO CHORD	
	W E	PP		IN TROSS	
	Up (Down)	Member	V1V2		
6786	(N) S	Span No.	3	Condition: GEN ALONG BOT FLG	
	W E	PP			
	Up (Down)	Member	V1V2		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG		AMC		Daily Page Number 14 of 16
Project: _____				
Team Leader: _____		Date: 8/10	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
6787 6788	N S	Span No.	3	Condition: SMALL HOLES DRILLED INTO
	(W) E	PP	2	VERT FACE - SIM. ON ALL VERT
	Up Down	Member	L2V2	MEMBERS
6789	N S	Span No.	3	Condition: ACTIVE CORROSION & PAINT LOSS
	(W) E	PP		@ PIER 2 CONN. ABOVE LOW W. BRG ON
	Up (Down)	Member	LOU1	LOU1 BEAM & CONN. SPLICE PLATE
6790	N (S)	Span No.	3	Condition: GEN INSIDE FACE OF LOU1
	W E	PP		
	(Up) Down	Member	LOU1	
6791	N (S)	Span No.	3	Condition: MINOR COLLISION DAMAGE @
	(W) E	PP		CORNER OF SPAN 3 SB LANE @ PIER 2
	Up (Down)	Member	LOU1	
6792	N (S)	Span No.	3	Condition: RAIL CONN TO LOU1 W. TRUSS
	W E	PP		
	Up Down	Member	LOU1	
6793	N (S)	Span No.	3	Condition: RAIL CONN. TO TOP OF LOU1
	(W) E	PP		MINOR S.L. AROUND RIVETED PLATE
	Up Down	Member	LOU1	TOP AND BOT. RAILS
6794	(N) S	Span No.	3	Condition: MOVED BOT OF PORTAL FRAME
	(W) E	PP	U1	NO WELDS
	(Up) Down	Member		
6795	(N) S	Span No.	3	Condition: OLD CONN PLATE FROM PORTAL
	(W) E	PP		AND BOTTOM CONN.
	(Up) Down	Member	LOU1	
6796	N (S)	Span No.	3	Condition: GEN CONN @ U1
	(W) E	PP	U1W	NOTE SP SPLICE R @ CENTER JOINT
	(Up) Down	Member		SAME SB - DO UP AS U9 MEASURED
6799	N S	Span No.	3	Condition: GEN INT. GUSSET PLATE
	W E	PP	U3W	
	Up Down	Member		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 15 of 16
Project: AMC				
Team Leader: _____		Date: 8/10	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
6798	N S	Span No.	3	Condition: GEN. INT G. @ U1 E. TRUSS
	W E (E)	PP	U1 E	
	(Up) Down	Member		
6799	(N) S	Span No.	3	Condition: INSIDE GUSSET ABOVE DIA.
	W E	PP	U1 W.	U1 L2
	(Up) Down	Member		
6800	(N) S	Span No.	3	Condition: TOP LAT CONN. PL - DIRTY BUT
	W E	PP	U1 W.	PAINT SEEMS TO BE INTACT
	(Up) Down	Member		
6801	(N) S	Span No.	3	Condition: SAME AS 6799 CLOSER
	W E	PP	W W.	GEN. PHOTO OF RIVET FORMATION
	(Up) Down	Member		
6802	N S	Span No.	3	Condition: ALONG BOT OF N. PORTAL SPAN
	W E (E)	PP	1	3. S. FACE - ALL H.S. BOLTS AT BOT.
	Up Down	Member		
6803	(N) S	Span No.	3	Condition: MINOR RUST ALONG LACING AND
	W E	PP		BOT. FLG OF LOU1 FOR APPROX 2'
	Up Down	Member	LOU1	
6804	N (S)	Span No.	3	Condition: GEN UP ALONG LOU1
	(W) E	PP		
	(Up) Down	Member	LOU1	
6805	N (S)	Span No.	3	Condition: GEN PORTAL FRAME @ U1
	W E	PP		
	Up Down	Member		
6806	N S	Span No.	LOU1 3	Condition: MINOR COLLISION DAMAGE + SCRAPING
	(W) E	PP		E FACE OF LOU1 2/3 WAY UP @ ORIGINAL
	Up Down	Member	LOU1 W.	PORTAL CONN. PL
6807	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 16 of 16	
Project: AMC					
Team Leader: _____		Date: 8/10		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6808	N (S)	Span No.	3	Condition: GEN OF UI W. CONN. W/	
	(W) E	PP	UI W.	W/HS. BOLTS ALONG BOT OF PORTAL	
	Up Down	Member		CONN.	
6809	N (S)	Span No.	3	Condition: TOP OF UI W. CONN.	
	W E	PP	UI W.		
	Up Down	Member			
6810	N (S)	Span No.	3	Condition: GEN ABOVE N. PORTAL FRAME	
	W E	PP		OF THE SPAN 3	
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			
	N S	Span No.		Condition:	
	W E	PP			
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 1 of 14	
Project:				Notes by K.L.	
Team Leader:		Date: 8/12/2017		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6811	(N) S	Span No.	1	Condition: South side of North End Portal	
	W E	PP		Bottom member are connected w/ bolts	
	Up Down	Member			
6812	N (S)	Span No.	1	Condition: View of U1 Roadway inside the top chord	
	(W) E	PP	U1 Roadway		
	(Up) Down	Member			
6813	N (S)	Span No.	1	Condition: East face of U1 Roadway	
	(W) E	PP	U1 Roadway		
	(Up) Down	Member			
6814	(N) S	Span No.	1	Condition: View of U1 Roadway inside the top chord	
	W E	PP	U1 Roadway		
	(Up) Down	Member			
6815	(N) S	Span No.	1	Condition: Lateral bracing connector @ U1 Roadway	
	W E	PP	U1 Roadway		
	Up Down	Member			
6816	N S	Span No.	1	Condition: GENL	
	W (E)	PP	U1 Sidewalk	Include lateral bracing connection @ U1 Sidewalk	
	Up Down	Member			
6817	N (S)	Span No.	1	Condition: Top Cover plate @ T.F.	
	W E	PP	U1-		
	Up Down	Member	U1-U2 RHY		
6818	N (S)	Span No.	1	Condition: East Fascia of U1-U2 RHY	
	W E	PP			
	Up Down	Member	U1-U2 RHY		
6819	(N) S	Span No.	1	Condition: Lateral bracing btw U1 RHY and U2 SDK	
	W E	PP		Minor map marking on print	
	Up Down	Member			
6820	N (S)	Span No.	1	Condition: Sky brace @ U2	
	W E	PP			
	Up Down	Member			

Q:\STR\photo log.xls

SDK = Sidewalk
RHY = Roadway

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 5 of 19	
Project: <u>Notes by MCL</u>					
Team Leader: _____		Date: <u>8/19/2019</u>		Bridge: <u>2019</u>	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6831	(N) S	Span No.	1	Condition: Inside view of top chord	
	W E	PP	U2 RUY		
	Up Down	Member			
6832	(N) S	Span No.	1	Condition: Sway brace connection @ Mid-height	
	(W) E	PP		of U2-12 RUY (TYPICAL)	
	Up Down	Member	U2-12 RUY	Below the connection, there is a 1" x 1/2" H x 1/8" T Cover plate	
6833	(N) S	Span No.	1	Condition: Horizontal member connection to U2-12 RUY	
	(W) E	PP		TYPICAL	
	Up Down	Member	U2-12 RUY		
6834	(N) S	Span No.	1	Condition: 4 Holes on U2-12 RUY below the	
	(W) E	PP		Sway brace connection. Covered by the a cover plate	
	Up Down	Member	U2-12 RUY	on the RD RUY side TYPICAL	
6835	(N) S	Span No.	1	Condition: Horizontal member connection to U2-13 RUY	
	(W) E	PP		TYPICAL	
	Up Down	Member	U2-13 RUY		
6836	(N) S	Span No.	1	Condition: GENERAL	
	(W) E	PP	U3 RUY		
	Up Down	Member	U3 RUY		
6837	N (S)	Span No.	1	Condition: GENERAL VIEW Inside top chord	
	W E	PP	U3 RUY		
	(Up) Down	Member			
6838	N (S)	Span No.	1	Condition: GENERAL	
	W E	PP	U3 RUY		
	Up Down	Member			
6839	(N) S	Span No.	1	Condition: GENERAL	
	(W) E	PP	U3 RUY		
	(Up) Down	Member			
6840 6841	(N) S	Span No.	1	Condition: GENERAL View from U3-13 RUY inside	
	W E	PP	U3 RUY	the top chord	
	(Up) Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 4 of 14	
Project:				Notes by EL	
Team Leader:		Date: 8/13/2019		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6840	(N) S	Span No.	1	Condition: GENL	
	W E	PP	U3 R/WY		
	Up Down	Member			
6843	N S	Span No.	1	Condition: GENL	
	W (E)	PP	U3 SDK		
	Up Down	Member			
6842	N S	Span No.	1	Condition: Horizontal member connection @ mid height of	
	(W) E	PP		U3-13 R/WY TYPICAL	
	Up Down	Member	U3-13 R/WY		
6845	N S	Span No.	1	Condition: Horizontal member @ R/WY Truss	
	W E	PP		TYPICAL	
	Up Down	Member			
6846	(N) S	Span No.	1	Condition: Traffic Damage to guard rail @ U3-12 R/WY	
	W E	PP		Top rail bent outward by approx 2/16" over a 4' length	
	Up Down	Member			
6847	N S	Span No.	1	Condition: Traffic Damage to gap guard rail connection @	
	W E	PP		U2-15 R/WY One bolt missing @ Bottom rail connection	
	Up Down	Member		One bolt missing and one both sheared off the connection and	
6848	N (S)	Span No.	1	Condition: Great GENL view @ inside the top chord	
	W E	PP	U4 R/WY		
	(Up) Down	Member			
6849	N S	Span No.	1	Condition: Map cracks in paint @ U4 end of U4-U3 R/WY	
	W E	PP	U4 R/WY	A Vertical crack in paint along the 4 rivets @ U4 end	
	Up Down	Member		of U4-U3 R/WY	
6850	N (S)	Span No.	1	Condition: Lateral brace @ Connection @ U4 R/WY	
	W E	PP	U4 R/WY		
	Up Down	Member			
6851	N S	Span No.	1	Condition: GENL	
	W E	PP	U4 R/WY		
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 5 of 17	
Project:				Notes by KL	
Team Leader:		Date:	Bridge:		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6852	(N) S	Span No.	1	Condition: GENL	
	(W) E	PP	UA R/WY		
	Up Down	Member			
6853	N (S)	Span No.	1	Condition: GENL view inside the top chord	
	W E	PP	UA R/WY		
	(Up) Down	Member			
6854	N (S)	Span No.	1	Condition: GENL VIEW inside the top chord	
	W E	PP		TYPICAL	
	Up Down	Member	UA-US R/WY		
6855	(N) S	Span No.	1	Condition: GENL	
	W (E)	PP	UA S/DK		
	Up Down	Member			
6856	(N) S	Span No.	1	Condition: Slay brace @ UA	
	W (E)	PP		Minor traffic damage above SB R/WY	
	Up (Down)	Member			
6857	(N) S	Span No.	1	Condition: GENL	
	W E	PP	US SB R/WY		
	Up Down	Member			
6858	N (S)	Span No.	1	Condition: GENL view inside the top chord	
	W E	PP	US SB R/WY		
	(Up) Down	Member			
6859 6859	N (S)	Span No.	1	Condition: GENL VIEW view inside the top chord	
	W E	PP	US R/WY	N. of US-25 R/WY	
	(Up) Down	Member			
6860 6860	(N) S	Span No.	1	Condition: GENL	
	(W) E	PP	US R/WY		
	Up Down	Member			
6861	(N) S	Span No.	1	Condition: GENL VIEW inside the top chord	
	W E	PP	US R/WY		
	(Up) Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 6 of 14	
Project:							
Team Leader:		Date: 8/13/2012		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6862	N S	Span No.	1	Condition: Sway brace @ U5			
	W E	PP		Minor traffic damage above B 515 RLY			
	Up Down	Member					
6863	N S	Span No.	1	Condition: GENL			
	W E	PP	U5 SDK				
	Up Down	Member					
6864	N S	Span No.	1	Condition: "			
	W E	PP		Bottom 6' of member bent outward away from			
	Up Down	Member	U5-15 RLY	rly.			
6865	N S	Span No.	1	Condition: See Note South Edge of East Flange bent			
	W E	PP	U5-15 RLY	was widened by up to 1/2" over a 6' height S. Edge			
	Up Down	Member	U5-15 RLY	of West Flange bent outward by up to 3/8" over a 6' height			
6866	N S	Span No.	1	Condition: N. Edge of East Flange bent inward by up to 3/8"			
	W E	PP	U5-15 RLY	over a 6' height. N. Edge of West Flange bent inward by			
	Up Down	Member	U5-15 RLY	up to 1 3/4" over a 10' height			
6867	N S	Span No.	1	Condition: Bridge rail connection @ U5-15 RLY			
	W E	PP		Retrofitted in order to correct w/ bent U5-15 RLY			
	Up Down	Member					
6868 6869	N S	Span No.	1	Condition: Bridge rail connection @ U5-15 RLY			
	W E	PP		Retrofitted in order to correct w/ bent U5-15 RLY			
	Up Down	Member					
6870	N S	Span No.	1	Condition: Bridge rail connection @ U6-16 RLY			
	W E	PP		Heavy to laminated rust. Rust shows. ^{up to 2"} Gap between			
	Up Down	Member		angle and bridge rail. 7-foot rail			
6871	N S	Span No.	1	Condition: GENL			
	W E	PP	U6 SDK				
	Up Down	Member					
6872	N S	Span No.	1	Condition: Genl view inside the top chord			
	W E	PP	U6 U6 RLY				
	Up Down	Member					

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 7 of 14	
Project:				Notes by KL	
Team Leader:		Date: 8/15/2012		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6873 6874	N (S)	Span No.	1	Condition: Genl view inside the top chord	
	W E	PP	U6 R/WY	north U6-L6 R/WY	
	(Up) Down	Member			
6875	(N) S	Span No.	1	Condition: GENL	
	W E	PP	U6 R/WY		
	Up Down	Member			
6876	(N) S	Span No.	1	Condition: Genl view inside the top chord	
	W E	PP	U6 R/WY		
	(Up) Down	Member			
6877	(N) S	Span No.	1	Condition: Genl view of Top chord of trusses	
	W E	PP			
	Up Down	Member			
6878	N (S)	Span No.	1	Condition: End Foot Portal @ South end of Span 1	
	W E	PP		Bottom half of portal is connected w/ bolts. Minor	
	Up Down	Member		Traffic damage near G of R/WY	
6879	(N) S	Span No.	1	Condition:	
	W E	PP		GENL view of Sway Bracings	
	Up Down	Member			
6880	N (S)	Span No.	1	Condition: GENL	
	W E	PP	U7 R/WY		
	Up Down	Member			
6881	N (S)	Span No.	1	Condition: GENL	
	W E	PP	U7 R/WY		
	Up Down	Member			
6882	N (S)	Span No.	1	Condition: GENL view inside the top chord	
	W E	PP	U7 R/WY		
	Up Down	Member			
6883	N (S)	Span No.	1	Condition: GENL view inside the top chord	
	W E	PP	U7 R/WY	N. of U7-L7 R/WY	
	(Up) Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 8 of 14	
Project:					
Team Leader:		Date:	Bridge:		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6884	N S	Span No.	1	Condition: GENL View inside the top chord	
	W E	PP	U7 R/W		
	Up Down	Member			
6885	N S	Span No.	1	Condition: GENL View inside the top chord	
	W E	PP			
	Up Down	Member	U7-L8 R/W		
6886	N S	Span No.	1	Condition: Lateral bracing @ S. Portal of Span 1	
	W E	PP		Traffic damage near G of R/W Jctg	
	Up Down	Member		Flange bent toward S by up to 1" over a 16" length.	
6887	N S	Span No.	1	Condition: Bridge coil connection @ U7-L7 R/W	
	W E	PP		Missing washer nut for one bolt connection in Top rail	
	Up Down	Member			
6888	N S	Span No.	1	Condition: GENL	
	W E	PP	U7 SDK		
	Up Down	Member			
6889	N S	Span No.	2	Condition: GENL	
	W E	PP	U1 R/W		
	Up Down	Member			
6890	N S	Span No.	2	Condition: GENL	
	W E	PP	U1 R/W		
	Up Down	Member			
6891	N S	Span No.	2	Condition: Sway bracings in Span 2	
	W E	PP			
	Up Down	Member			
6892	N S	Span No.	2	Condition: N. Portal of Span 2	
	W E	PP			
	Up Down	Member			
6893	N S	Span No.	2	Condition: Traffic Damage to bridge coil @ R/W side	
	W E	PP		@ N. End of Span 2	
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 9 of 19	
Project:					
Team Leader:		Date: 8/13/2012		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6894	 Up Down	Span No.	2	Condition: GENL	
		PP	U2 RHY		
		Member			
6895	 Up Down	Span No.	2	Condition: GENL top side of trusses of Span 2	
		PP			
		Member			
6896	 Up Down	Span No.	2	Condition: North edge of East Flange bent outward by up to 1/2" over a 24" height	
		PP	U2-12 RHY		
		Member			
6897	 Up Down	Span No.	2	Condition: GENL	
		PP	U3 RHY		
		Member			
6898	 Up Down	Span No.	2	Condition: Bridge rail connection is missing a bolt in top rail.	
		PP			
		Member	U3-13 RHY		
6899	 Up Down	Span No.	2	Condition: S D E Lateral bracing @ U4- Area of paint peeling w/ moderate to heavy rust @ bottom of Top flange	
		PP			
		Member			
6900	 Up Down	Span No.	2	Condition:	
		PP	U4 RHY		
		Member			
6901	 Up Down	Span No.	2	Condition: @ bridge rail. Member has paint failure w/ heavy rust. N at Edge of East flange bent outward by up to 1/2" over a 19" length	
		PP			
		Member	U3-14 RHY		
6902	 Up Down	Span No.	2	Condition: Scrap marks to both members @ bridge rail	
		PP			
		Member	U4-14 U5-14 RHY		
6903	 Up Down	Span No.	2	Condition: GENL	
		PP	U5 RHY		
		Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG		Project: Notes by KCL		Daily Page Number 10 of 14
Team Leader: _____		Date: 8/13/2012	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
6904 6905		Span No.	2	Condition: 2" H East Flange was sheared @ N. Edge over a 5" length
		PP		
		Member	U6-L5 RHY	
6906		Span No.	2	Condition: Close up of condition show in previous pic East Flange is bent inward by up to 1"
		PP		
		Member	U6-L5 RHY	
6907		Span No.	2	Condition: GENL
		PP	U6 RHY	
		Member		
6908		Span No.	2	Condition: GENL VIEW OF TOP TRUSSES in Span 2
		PP		
		Member		
6909		Span No.	2	Condition: @ Bridge End, member has areas of paint failure w/ heavy rust and rust stain
		PP		
		Member	U6 U7-L6 RHY	
6910		Span No.	2	Condition: South End Portal of Span 2
		PP		
		Member		
6911		Span No.	2	Condition: Scattered areas of paint failures w/ moderate to heavy rust & rust stains
		PP		
		Member	U7-L8 RHY	
6912		Span No.	2	Condition: GENL
		PP	U7 RHY	
		Member	U7	
6913		Span No.	2	Condition: @ 11" from ^{Top of} FB7, East flange has a 2 1/2" H x 2" L x up to 3/16" D SL - that is painted over
		PP		
		Member	U7-L7 RHY	
6914		Span No.	2	Condition: @ 21" from Top of FB6, East flange has a 4 1/2" L x 5" x up to 1/4" SL w/ heavy to laminated rust, paint failure & rust stain
		PP		
		Member	U6-L6 RHY	

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG		Project:		Notes by KC		Daily Page Number 11 of 19	
Team Leader:		Date: 8/13/2012		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6915	N S	Span No.	2	Condition: @ 11" from bottom of bottom bridge rail,			
	W E	PP		a 4" x 3" H x up to 3/4" SL of heavy 1/2" laminated			
	Up Down	Member	LS-UG RWY	rust at , rust stains, and paint failure			
6916	N S	Span No.	2	Condition: South End lateral bracing			
	W E	PP					
	Up Down	Member					
6917	N S	Span No.	3	Condition: GENL			
	W E	PP	U7 SDK				
	Up Down	Member					
6919 6918	N S	Span No.	3	Condition: W. Face of U7 & SDK @ in span 3			
	W E	PP	U7 SDK				
	Up Down	Member					
6920 6919	N S	Span No.	3	Condition: Inside view of Top chord looking up			
	W E	PP	U7 SDK	from S. Side of U7-L7 SDK			
	Up Down	Member					
6921 6920	N S	Span No.	3	Condition: Inside view of Top chord looking up			
	W E	PP	U7 SDK	from N. side of U7-L7 SDK			
	Up Down	Member					
6922 6921	N S	Span No.	3	Condition: has inside view of top chord			
	W E	PP	U7 SDK				
	Up Down	Member					
6923 6922	N S	Span No.	3	Condition: GENL			
	W E	PP	U7 SDK				
	Up Down	Member					
6924	N S	Span No.	3	Condition: GENL			
	W E	PP	U7 SDK				
	Up Down	Member					
6925	N S	Span No.	3	Condition: GENL			
	W E	PP	U6 SDK				
	Up Down	Member					

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 12 of 14
Project:		Notes by KL		
Team Leader: _____		Date: 8/13/2012	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION
6926	N S	Span No.	3	Condition: Inside view of top chord
	W E	PP	U6 SDK	
	Up Down	Member		
6927	N S	Span No.	3	Condition: GENL
	W E	PP	U6 SDK	
	Up Down	Member		
6928	N S	Span No.	3	Condition: GENL
	W E	PP	U6 SDK	Looking up from south side of U6-16 SDK
	Up Down	Member		
	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		
	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		
	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		
	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		
	N S	Span No.		Condition:
	W E	PP		
	Up Down	Member		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Span 3
 US SDK

Parsons Brinckerhoff - PHOTO LOG		Project:		Notes by KL		Daily Page Number 1 of 11	
Team Leader:		Date: 8/19/2012		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6929	(N) S	Span No.	3	Condition: Top of trusses in Span 3 view from UG			
	W E	PP					
	Up Down	Member					
6930	N (S)	Span No.	3	Condition: West face of US SDK in span 3			
	W E	PP	US SDK	GENL			
	Up Down	Member					
6931	N (S)	Span No.	3	Condition: GENL			
	W E	PP	US SDK				
	Up Down	Member					
6932 6933 6934	N (S)	Span No.	3	Condition: GENL view inside the top chord			
	W E	PP	US SDK				
	(Up) Down	Member					
6935	(N) S	Span No.	3	Condition: GENL VIEW INSIDE inside the			
	W E	PP	US SDK	top chord.			
	(Up) Down	Member					
6936	(N) S	Span No.	3	Condition: GENL			
	W E	PP	US SDK				
	Up Down	Member					
6937	N (S)	Span No.	3	Condition: Below the lateral bracing connection,			
	W E	PP		US-L5 SDK has a 18" x 7L area of paint failure			
	Up Down	Member	US-L5 SDK	w/ light rust on its west side of west flange			
6938	(N) S	Span No.	3	Condition:			
	W E	PP	US SDK	GENL			
	Up Down	Member					
6939	(N) S	Span No.	3	Condition:			
	W E	PP	US SDK	GENL			
	(Up) Down	Member					
6940	N (S)	Span No.	3	Condition: GENL			
	W E	PP	US SDK				
	Up Down	Member					

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG		Project:		Notes by KL		Daily Page Number 2 of 11	
Team Leader:		Date: 8/14/2012		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6941		Span No.	3	Condition: GENL			
		PP	U3 SDK				
		Member					
6942		Span No.	3	Condition: GENL			
		PP	U3 SDK				
		Member					
6943		Span No.	3	Condition: GENL			
		PP	U3 SDK				
		Member					
6944		Span No.	3	Condition: GENL			
		PP	U3 SDK				
		Member					
6945		Span No.	3	Condition: w/ heavy rust & paint failure			
		PP		Scrap marks on member @ 25" from top of			
		Member	U4-U5 SDK	SDK, the west flange is bent inward away from RWY by up to 3/4" over a 12" length.			
6946		Span No.	3	Condition: Scrap marks w/ heavy rust and paint			
		PP		failure over a 67" height on west side of West Flange			
		Member	U4-L4 SDK				
6947		Span No.	3	Condition: Scattered areas of paint failure w/ heavy rust			
		PP		& rust stains near the sidewalk @ 4' from top			
		Member	U3-L4 SDK	of sidewalk, scrap marks w/ heavy rust & rust stains			
6948		Span No.	3	Condition: on west face of West flange, there is a 1"			
		PP		deep gouge over a 8" length on the South edge of			
		Member	U3-L3 SDK	West Flange that bent inward to the RWY by 1"			
6949		Span No.	3	Condition: West Flange bent out of plane long. by up to			
		PP		3" and transversely by up to 1/2" East Flange bent out			
		Member	U3-L3 SDK	of plane long. by up to 1" and transversely by up			
6948		Span No.	3	Condition: to 1 1/2". The web is twisted out of plane			
		PP		This is over a 10' height from top of SDK Scrap			
		Member	U3-L3 SDK	marks w/ heavy rust & rust stains			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 3 of 11	
Project:							
Team Leader:		Date: 8/14/2012		Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6950 6950		Span No.	3	Condition: Same conditions as previous photo.			
		PP					
		Member	U3-L3 SDK				
6951 6951		Span No.	3	Condition: Scrap marks w/ heavy rust, paint failure, and rust stains over a 7' length.			
		PP					
		Member	U2-L3 SDK				
6952 6952		Span No.	3	Condition:			
		PP		Same condition as Photos 6948, 6949, & 6954			
		Member	U3-L3 SDK				
6953		Span No.	3	Condition: GENL			
		PP	U2 SDK				
		Member					
6954		Span No.	3	Condition: GENL			
		PP	U2 SDK				
		Member					
6955		Span No.	3	Condition: Top of Trusses in Span 3 View from U2			
		PP					
		Member					
6956		Span No.	2	Condition: Top of Trusses in Span 2			
		PP					
		Member					
6957		Span No.	3	Condition: GENL			
		PP	U2 SDK				
		Member					
6958		Span No.	3	Condition: GENL VIEW inside the top chord			
		PP	U2 SDK				
		Member					
6959		Span No.	3	Condition: A General view inside the top chord			
		PP		Typical			
		Member	U1-U2 SDK				

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
 Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 4 of 11	
Project:				Notes by KL	
Team Leader:		Date: 8/14/2019	Bridge: 2019		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6960	(N) S	Span No.	3	Condition: General view inside the top chord	
	W E	PP	U1 SDK		
	Up Down	Member			
6961 6960	(N) S	Span No.	3	Condition: GENL	
	W E	PP	U1 SDK		
	Up Down	Member			
6962	(N) S	Span No.	3	Condition: GENL	
	W E	PP	U1 SDK	West face of Span 3 U1 SDK	
	Up Down	Member			
6963	(N) S	Span No.	3	Condition: Areas of paint failure w/ heavy rust & rust stain	
	W E	PP		Traffic Damage to West Angle, South	
	Up Down	Member	U1-L2 SDK	Flange bent north by up to 1/4" over as 2' length	
6964	N (S) E	Span No.	2	Condition: GENL	
	W (E)	PP	U7 SDK		
	Up Down	Member			
6965	N (S) E	Span No.	2	Condition: GENL	
	W (E)	PP	U6 SDK		
	Up Down	Member			
6966	(N) S	Span No.	2	Condition: SWAY BRACINGS	
	W E	PP		GENL	
	Up Down	Member			
6967	(N) S	Span No.	2	Condition: GENL	
	W E	PP	U5 SDK		
	Up Down	Member			
6968	N (S) E	Span No.	2	Condition: GENL	
	W (E)	PP	U5 SDK		
	Up Down	Member			
6969	N (S) E	Span No.	2	Condition: GENL	
	W (E)	PP	U4 SDK		
	Up Down	Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 5 of 11	
Project:				Notes by KL	
Team Leader:		Date:	Bridge:		
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6970	N	Span No. 2	Condition: GENL	S	
	W			PP	U3 SDK
	Up Down			Member	
6971	N	Span No. 2	Condition: GENL	S	
	W			PP	U2 SDK
	Up Down			Member	
6972	N	Span No. 2	Condition: GENL	S	
	W			PP	U1 SDK
	Up Down			Member	
6973	N	Span No. 1	Condition: GENL	S	
	W			PP	U7 SDK
	Up Down			Member	
6974	N	Span No. 1	Condition: GENL	S	
	W			PP	U6 SDK
	Up Down			Member	
6975	N	Span No. 1	Condition: GENL	S	
	W			PP	U5 SDK
	Up Down			Member	
6976	N	Span No. 1	Condition: GENL	S	
	W			PP	U4 SDK
	Up Down			Member	U4 SDK
6977	N	Span No. 1	Condition: GENL	S	
	W			PP	U3 SDK
	Up Down			Member	
6978	N	Span No. 1	Condition: GENL	S	
	W			PP	U2 SDK
	Up Down			Member	
6979	N	Span No. 1	Condition: GENL	S	
	W			PP	U1 SDK
	Up Down			Member	U1 SDK

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Notes by KL		Daily Page Number 6 of 11	
Project:							
Team Leader:				Date: 8/14/2019 Bridge: 2019			
PHOTO #	DIRECTION	LOCATION		DESCRIPTION			
6980	N S	Span No.	1	Condition: North End Portal			
	W E	PP		Lower portal member previously replaced			
	Up Down	Member					
6981	N S	Span No.	1	Condition: North Portal GZNL			
	W E	PP					
	Up Down	Member					
6982	N S	Span No.	1	Condition: Severed lacing bar due to section loss			
	W E	PP		just below the sidewalk level			
	Up Down	Member	U1-L0 SDK				
6983	N S	Span No.	1	Condition: U2 Sway Brace			
	W E	PP		Bent member due to impact			
	Up Down	Member		Lateral displacement			
6984	N S	Span No.	1	Condition: U3 Sway Brace			
	W E	PP		Bent member due to impact			
	Up Down	Member		Lateral displacement			
6985	N S	Span No.	1	Condition: U4 Sway Brace			
	W E	PP		Similar condition as previous photo			
	Up Down	Member					
6986	N S	Span No.	1	Condition: Impact damage			
	W E	PP					
	Up Down	Member	U5-L5 RHY				
6987	N S	Span No.	1	Condition: U5 Sway Brace			
	W E	PP		Lateral displacement			
	Up Down	Member					
6988	N S	Span No.	1	Condition: U6 Sway Brace			
	W E	PP		Lateral displacement			
	Up Down	Member					
6989	N S	Span No.	1	Condition: Minor impact damage 2' above SDK			
	W E	PP					
	Up Down	Member	U6-L6 SDK				

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 7 of 11	
Project:				Notes by KL	
Team Leader: _____		Date: 8/14/12		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
6990	N S	Span No.	1	Condition: South Portal	
	(W) E	PP			
	(Up) Down	Member			
6991	(N) S	Span No.	1	Condition: South Portal	
	W E	PP		Lower member previously replaced	
	(Up) Down	Member		Two separate impact damage	
6992	N S	Span No.	2	Condition:	
	(W) E	PP		North Portal	
	(Up) Down	Member			
6993	(N) S	Span No.	2	Condition: North Portal	
	W E	PP			
	(Up) Down	Member			
6994	N S	Span No.	2	Condition: @ 12' above deck, impact damage to	
	(W) E	PP		east flange	
	(Up) Down	Member	U2-12 RHY		
6995	N S	Span No.	2	Condition: @ 2' above deck, impact damage	
	W (E)	PP		to West flange	
	Up (Down)	Member	U3-23 SOK		
6996	N S	Span No.	2	Condition: U4 Sway Frame	
	(W) E	PP		No sig. Damage TYPICAL	
	(Up) Down	Member			
6997	N S	Span No.	2	Condition: Torn East Flange @ N. Edge	
	(W) E	PP			
	(Up) Down	Member	U6-L5 RHY		
6998	N S	Span No.	2	Condition: @ 2' above sidewalk, minor bent flange	
	(W) E	PP			
	Up Down	Member	U6-L5 SDK		
6999	N (S)	Span No.	2	Condition: Impact damage @ 1' above deck	
	W (E)	PP			
	Up Down	Member	U6-L6 SDK		

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 8 of 11	
Project: _____				Notes by KL	
Team Leader: _____		Date: 8/14		Bridge: 2019	
PHOTO #	DIRECTION	LOCATION		DESCRIPTION	
7000		Span No.	2	Condition: South Portal	
		PP			
		Member			
7001		Span No.	2	Condition: South Portal	
		PP			
		Member			
7002		Span No.	2 3	Condition: North Portal	
		PP			
		Member			
7003		Span No.	3	Condition: North Portal	
		PP			
		Member			
7004		Span No.	3	Condition: U3 Sway Brace	
		PP		Minor lateral displacement	
		Member			
7005		Span No.	3	Condition: Torn West Flange @ Approx 4' above sidewalk deck	
		PP			
		Member	U3-L4 50K		
7006		Span No.	3	Condition: U4 Sway Brace	
		PP		Twisted and bent	
		Member			
7007		Span No.	3	Condition: U6 Sway Brace	
		PP		Bent w/ lateral displacement over NB lane	
		Member			
7008		Span No.	3	Condition: South Portal	
		PP			
		Member			
7009		Span No.	3	Condition: South Portal	
		PP		Bent and twisted flange over NB lane	
		Member			

Q:\STR\photo log.xls

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

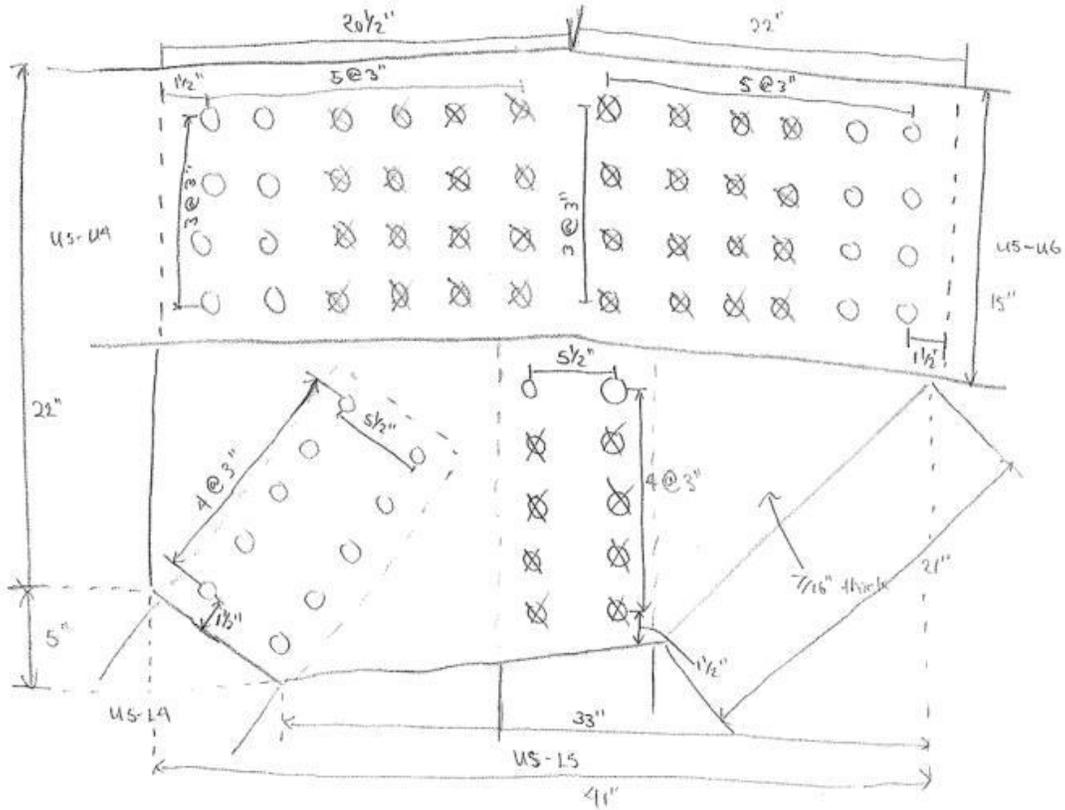
Parsons Brinckerhoff - PHOTO LOG				Daily Page Number 9 of 11
Project: _____				Notes by K.L.
Team Leader: _____		Date: 8/14	Bridge: 2019	
PHOTO #	DIRECTION	LOCATION	DESCRIPTION	
7010	(N) S	Span No. 3	Condition: South Portal	
	(W) E	PP		
	(Up) Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		
	N S	Span No.	Condition:	
	W E	PP		
	Up Down	Member		

Q:\STR\photo log.xls

SIDEWALK U3

P.11 of 11
 8/19 2019
 Notes by KL

⊗ DOUBLE SHEAR



Measured @ Spar 3 US SOK

Appendix C

Structure Inventory and Appraisal (SIA) Sheet Redlines

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Roger B. Stanley (TL)
11/13/12

Maine Department of Transportation

Maintenance & Operations
Bridge Maintenance

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 2019 Agency ID: 2019 SR: 11.4 SD/FO: SD

IDENTIFICATION
State 1: 23 Maine Struc Num 8: 2019
Facility Carried 7: IN PERU = N. MAIN Location 9: 150 FT SLY OF JCT US2
Rte.(On/Under)5A: Route On Structure Rte. Signing Prefix 5B: 3 State Hwy
Level of Service 5C: 0 None of the below Rte. Number 5D: 00000
Directional Suffix 5E: 0 N/A (NBI) % Responsibility: 0
SHD District 2: 03 Western County Code 3: 017 Oxford
Place Code 4: 17240 Peru Mile Post 11: 9.160 mi
Feature Intersected 6: ANDROSCOGGIN RIVER
Latitude 16: 44d 31' 48" Longitude 17: 070d 27' 51"
Border Bridge Code 98: Not Applicable (P)
Border Bridge Number 99: n/a

INSPECTION
Frequency 91: 24 months Inspection Date 90: 8/16/2010 Next Inspection: 08/16/2012
FC Frequency 92A: 24 months FC Inspection Date 93A: 1/1/1901 Next FC Inspection: 1/1/1901
UW Frequency 92B: NA UW Inspection Date 93B: NA Next UW Inspection: NA
SI Frequency 92C: NA SI Date 93C: NA Next SI: NA
Element Frequency: 24 months Element Inspection Date: 08/16/2010 Next Elem. Insp. Due: 08/16/2012

CLASSIFICATION
Defense Highway 100: 0 Not a STRAHNET hwy Parallel Structure 101: No || bridge exists
Direction of Traffic 102: 2 2-way traffic Temporary Structure 103: Not Applicable (P)
Highway System 104: 0 Not on NHS NBIS Length 112: Long Enough
Toll Facility 20: 3 On free road Functional Class 26: 06 Rural Minor Arterial
Defense Hwy 110: 0 Not a STRAHNET hwy Historical Significance 37: 5 Not eligible for NRHP
Owner 22: 01 State Highway Agency
Custodian 21: 01 State Highway Agency

STRUCTURE TYPE AND MATERIALS
Number of Approach Spans 46: 0 Number of Spans Main Unit 45: 3
Main Span Material/Design 43A/B:
3 Steel 10 Truss-Thru
Deck Type 107: 1 Concrete-Cast-in-Place
Wearing Surface 108A: 1 Monolithic Concrete
Membrane 108B: 0 None
Deck Protection 108C: None

CONDITION
Deck 58: 5 Fair Super 59: 4 Poor Sub 60: 5 FAIR 6 Satisfactory
Culvert 62: N N/A (NBI) Channel/Channel Protection 61: 6 Bank Slumping

LOAD RATING AND POSTING
Inventory Rating Method 65: 2 AS Allowable Stress Operating Rating Method 63: 2 AS Allowable Stress
Inventory Rating 66: HS8.9 Operating Rating 64: HS24.4
Design Load 31: 5 MS 18 (HS 20) Posting 70: 5 At/Above Legal Loads
Posting status 41: A Open, no restriction

AGE AND SERVICE
Year Built 27: 1930 Year Reconstructed 106: -4
Type of Service on 42A: 5 Highway-pedestrian
Type of Service under 42B: 5 Waterway
Lanes on 28A: 2 Lanes Under 28B: 0 Detour Length 19: 7.8 mi
ADT 29: 6,442 Truck ADT 109: 9 % Year of ADT 30: 2010

APPRAISAL
Bridge Rail 36A: 0 Substandard Approach Rail 36C: 0 Substandard
Transition 36B: 0 Substandard Approach Rail Ends 36D: 0 Substandard
Str. Evaluation 67: 2 Deck Geometry 68: 2 Intolerable - Replace
Underclearance, Vertical and Horizontal 69: N Not applicable (NBI)
Waterway Adequacy 71: 6 Equal Minimum Approach Alignment 72: 6 Equal Min Criteria
Scour Critical 113: 8 Stable Above Footing

GEOMETRIC DATA
Length Max Span 48: 186.0 ft Structure Length 49: 574.0 ft
Curb/Sdwk Width L 50A: 0.5 ft Curb/Sidewalk Width R 50B: 5.2 ft
Width Curb to Curb 51: 22.0 ft Width Out to Out 52: 23.0 ft
Approach Roadway Width 32: 26.0 ft Median 33: 0 No median (w/ shoulders)
Deck Area: 13,201.5 sq. ft
Skew 34: 0.00 ° Structure Flared 35: 0 No flare
Vertical Clearance 10: 14.83 ft Horiz. Clearance 47: 22.00 ft
Minimum Vertical Clearance Over Bridge 53: 14.8 ft
Minimum Vertical Underclearance Reference 54A: N Feature not hwy or RR
Minimum Vertical Underclearance 54B: 0.0 ft
Minimum Lateral Underclearance Reference R 55A: N Feature not hwy or RR
Minimum Lateral Underclearance R 55: 327.8 ft
Minimum Lateral Underclearance L 56: 327.8 ft

PROPOSED IMPROVEMENTS
Bridge Cost 94: \$ 5,319,000 Type of Work 75: 31 Repl-Load Capacity
Roadway Cost 95: \$ 532,000 Length of Improvement 76: 586.0 ft
Total Cost 96: \$ 7,978,000 Future ADT 114: 9,019
Year of Cost Estimate 97: 2004 Year of Future ADT 115: 2030

NAVIGATION DATA
Navigation Control 38: 0 Permit Not Required
Vertical Clearance 39: 0.0 ft Horizontal Clearance 40: 0.0 ft
Pier Protection 111: Not Applicable (P) Lift Bridge Vertical Clearance 116: 0.0 ft

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	18/2	P Conc Deck/Thin Ovl	(SF)	13,202	0 %	0	100 %	13,202	0 %	0	0 %	0	0 %	0
1	113/2	Paint Stl Stringer	(LF)	3,444	95 %	2,721	5 %	241	0 %	379	0 %	103	0 %	0
1	121/2	P/Stl Thru Truss/Bot	(LF)	1,148	75 %	723	15 %	69	10 %	298	0 %	57	0 %	0
1	126/2	P/Stl Thru Truss/Top	(LF)	1,148	70 %	827	15 %	57	15 %	184	0 %	80	0 %	0
1	152/2	Paint Stl Floor Beam	(LF)	621	50 %	379	10 %	43	20 %	168	20 %	31	0 %	0
1	210/2	R/Conc Pier Wall	(LF)	46	0 %	0	70 %	32	30 %	14	0 %	0	0 %	0

INSP007_Inspection_SIA_English

Agency ID: 2019

Thu 2/2/2012 10:58:22
Page 15 of 114

Maine DOT Bridge No. 2019
Routine & Fracture Critical Bridge Inspection Report

Roger B. Stanley (TL)
11/13/12

Maine Department of Transportation

Maintenance & Operations
Bridge Maintenance

Structure Inventory and Appraisal Sheet (English Units)

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	215/2	R/Conc Abutment	(LF)	46	0 %	0	70 %	32	30 %	14	0 %	0	0 %	0
1	218/2	Undefined Wall Elem.	(LF)	80	71 %	57	15 %	12	12 %	10	2 %	2	0 %	0
1	302/2	Compressn Joint Seal	(LF)	46	0 %	0	100 %	46	0 %	0	0 %	0	0 %	0
1	311/2	Moveable Bearing	(EA)	12	50 %	0	25 %	9	25 %	3	0 %	0	0 %	0
1	334/2	Metal Rail Coated	(LF)	1,148	0 %	0	0 %	0	50 %	861	50 %	230	5 %	57
1	362/2	Traf Impact SmFlag	(EA)	1	0 %	0	0 %	0	100 %	1	0 %	0	0 %	0
1	384/2	Wear.Surf. - Thin	(SF)	12,628	0 %	0	80 %	10,102	18 %	2,273	2 %	253	0 %	0
1	388/2	Paint	(SF)	72,874	78 %	56,842	15 %	10,931	5 %	3,644	2 %	1,457	0 %	0
1	389/2	Reinfor conc dk/slab	(SF)	13,202	33 %	4,357	33 %	4,357	34 %	4,489	0 %	0	0 %	0

Str Unit	Elm/Env	Description	Element Notes
1	18/2	Concrete Deck - Protected w/ Thin	
1	113/2	Painted Steel Stringer	< none >
1	121/2	Painted Steel Bottom Chord Thru Truss	< none >
1	126/2	Painted Steel Thru Truss (excl. bot)	< none >
1	152/2	Painted Steel Floor Beam	< none >
1	210/2	Reinforced Conc Pier Wall	
1	215/2	Reinforced Conc Abutment	
1	218/2	Undefined Wall Elem (Incl. Wing-	< none >
1	302/2	Compression Joint Seal	
1	311/2	Moveable Bearing (roller, sliding, e	< none >
1	334/2	Metal Bridge Railing - Coated	< none >
1	362/2	Traffic Impact	Collision damage to two verticals, see notes and photos.
1	384/2	Wearing Surface - Thin (Dummy E	<none>
1	388/2	Paint (Dummy Element)	<none>
1	389/2	Reinforced Concrete Deck/Slab	<none>

BRIDGE NOTES

1930 Three span, riveted steel, through truss supporting concrete deck.
Inventory Load Rating very low.

PAST INSPECTION

Inspection Date: 08/16/2010 Type: 1 Regular NBI
Inspector: DTJHANN Pontis User Key: DTJHANN - JAMIE
Scope:
NBI: Other: Element:
Underwater: Fracture Critical:

INSPECTION NOTES

Structure is in overall Fair condition.
Used UBC to inspect bridge.
Chain drag of the entire deck found only minor areas of delaminated concrete primarily around joint areas.
Bearing nut on SW bearing is backed off by 3/4"
Note that the nut is not painted and may have been part of the retrofit.
All four abutment bearings have been retrofitted with a catcher's mit.
Several of the keeper nuts on the bearing pins are cracked, broken or missing, see photos.
The South end of the center span bearings are tipped back.
There is a cable that has been strung around all of the bearings on the S'y pier, but is not tight enough to do much.

Two locations of collision damage to verticals.
First is located on down stream side, center of S'y pier. Collision damage to vertical has twisted it out of place by 2