
Madison County



Structurally Deficient Bridges



**Madison County Highway Department
2015**

Structurally Deficient Bridges

Madison County, New York

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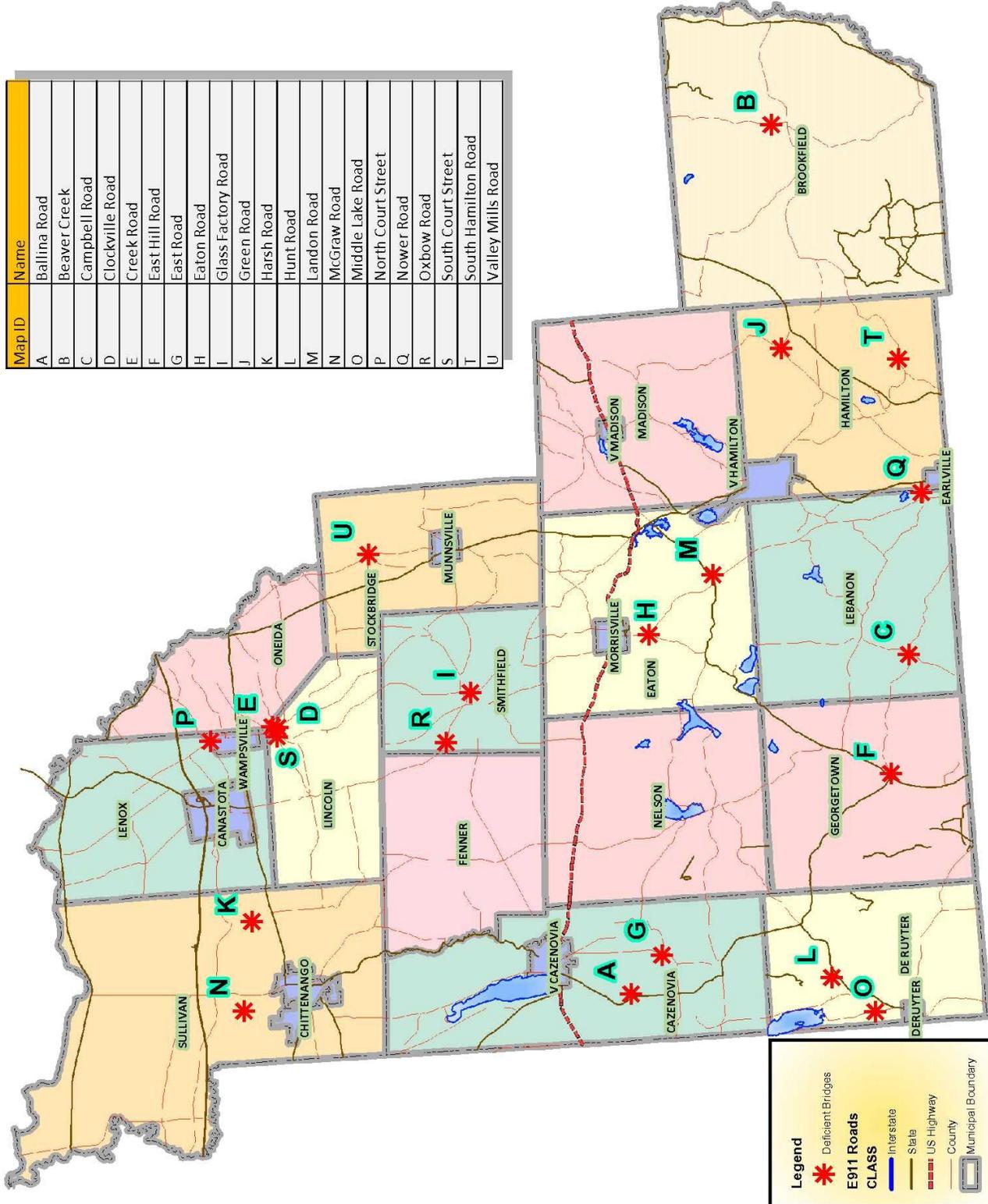
Local ID# w/ BIN#	Year Built	Road Name	Feature Crossed	Descriptions	Posted	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Costs
CAZ 255 2308750	1946	Ballina Rd	Chittenango Creek	Effor. along the top flange of the left fascia girder, spall in other bays, severe effor. In the end of bay 5, fascia of deck repaired in 2011, leakage through the left and right bay, moderate delamination at the end of G2, light scale on interior girders. moderate delamination on the bearing plates		Multi-Steel Girder	61'-0"	5.89 miles	260 (2007)	\$675,000
BRO 467 3308620	1926	Beaver Creek Road	Beaver Creek	Primary Member rated 4, the end half of the concrete slab has several longitudinal cracks with dripping efflorescence and isolated hollow sounding areas, especially on the left half of the slab	No	Concrete Slab	20'-0"	15.0 miles	278 (2009)	\$450,000
LEB 573 3308430	1950	Campbell Rd	South Lebanon Brook	Primary Members are rated 3, webs have heavy section loss up to 75% near bearing areas, bridge seat spalled, rated 4	No	Multi-Steel Girder	25'-0"	11.95 miles	78 (2008)	\$500,000
LIN 163 3309030	1947	Clockville Rd	Cowaselon Creek	Primary Member rated 3, girder 1 at mid-span has 56% section loss, girder 5 has flange section loss of 77%		Multi-Steel Girder	26'-0"	1.0 miles	569 (2012)	\$150,000
LIN 162 3309020	1957	Creek Rd	Cowaselon Creek	Primary Members rated 3, beam 8 has one exposed heavily corroded strand	No	Prestress Concrete Box Beam	31'-0"	1 miles	1,397 (2008)	\$500,000
GEO 607 3308360	1966	East Hill Rd	Otselic River	moderate scale, heavy scale and delamination on fascia girders at the bottom flange, up to 80% section loss, moderate delamination at the ends of a couple interior girders		Multi-Steel Girder	50'-0"	7 miles	262 (2008)	\$500,000
CAZ 271 3308730	1930	East Rd	Limestone Creek	Concrete Slab (primary member rated 3), spalled w/ rebar visible at edges, interior is in good condition, rated 5, abutment rated 4		Concrete Slab	22'-0"	4.85 miles	896 (2005)	\$550,000
EAT 343 3308830	1956	Eaton Rd	Electric Light Creek	Primary Member rated 4, the right prestressed concrete beam is heavily spalled w/ 2 exposed tendons, one tendon is severed due to 100% section loss, left fascia beam is cracked w/ efflorescence	No	Prestress Concrete Box Beam	22'-0"	11.50 miles	2,605 (2011)	\$615,000
SMI 206 2308940	1955	Glass Factory Rd	Oneida Creek	Primary Member rated 4, two beams each have two longitudinal strands exposed, up to 100% section loss	Yes, 12 tons	Prestress Concrete Box Beam	26'-0"	1.05 miles	101 (2010)	\$150,000
HAM 517 3308520	1930	Green Rd	Sangerfield River	Primary Members rated 5, minor (<5%) section loss to the upper flanges of girders; Structural Deck rated 3, deck has transverse cracks w/ efflorescence and minor spalling	Yes, 20 tons (1995)	Multi-Steel Girder	38'-0"	3.06 miles	475 (2008)	\$200,000
SUL 58 2309050	1955	Harsh Rd	Canaseraga Creek	Primary Members rated 3, three beams have longitudinal tendons exposed w/ 20% to 50% section loss, one beam has 1 of 2 exposed tendons w/ 100% section loss	No	Prestress Concrete Box Beam	32'-0"	4.1 miles	1,071 (2008)	\$150,000
DER 661 3308330	1934	Hunt Rd	Middle Branch of Toughnioga Creek	Primary Members rated 3, w/ girders having section loss, G2 has up to 100% section loss on the web near bearing area, structural deck rated 3, cracking w/ dripping efflorescence, bridge seat has moderate spall, starting to undermine steel bearing plate, rated 4	Yes, 10 tons (2007)	Multi-Steel Girder	30'-0"	2.98 miles	88 (2008)	\$500,000
EAT 352 2308870	1956	Landon Rd	Chenango River	Primary Member rated 4, w/ both fascia girders having 10% to 20% web section loss, flange loss of the fascia girder is up to 5%; End Bridge seat at G-5 is spalled to 5 1/2" deep, 10% loss of bearing; structural deck is rated 3		Multi-Steel Girder	45'-0"	2.7 miles	810 (2010)	\$500,000
SUL 27 2309130	1932	McGraw Rd	Chittenango Creek	Primary Members rated 4, interior girders have heavy web section loss, up to 35%, up to 29% bottom flange section loss; Structural Deck is rated 3	Yes, 12 tons (2012)	Multi-Steel Girder	75'-0"	4.35 miles	505 (2008)	\$750,000
DER 654 3308310	1962	Middle Lake Rd (Rural Local Road)	Middle Branch of Toughnioga Creek	Primary Members rated 4, localized spall w/ reinforcement exposed, exposed tendon has 100% section loss, abutment rated 4 due to spall at bridge seat, end abutment footing rated 3, due to possible movement		Prestress Concrete Box Beam	32'-0"	5.40 miles	1,092 (2011)	\$400,000
LEN 2010 3365930	1962	North Court St	CSX Railroad	Heavy web section loss of girders in span 2 over the pier 2 bearings, section loss up to 82%, up to 50% section loss in webs of girders in span 1 over the pier 1 bearings, girders in span 3 have up to 56% web section loss over the pier 2 bearings	No	Multi-Steel Girder	53'-0"	6.25 miles	5,134 (2012)	\$1,200,000
LEB 565 3308420	1955	Nower Rd	Chenango River	Primary Members rated 4, girders have up to 30% section loss on web and 19% section loss on flanges	Yes, 20 tons	Multi-Steel Girder	60'-0"	2.87 miles	544 (2008)	\$250,000
SMI 208 (3367300)	1977	Oxbow Road	Oneida Creek	Stress Cracks Surrounding Structurally Bolted Connections and Section Loss of Steel Plates		Corrugated Metal Plate Pipe Arch	24'-0"	5.0 miles	1,880 (2005)	\$400,000
LIN 166 3309040	1957	South Court St	Clockville Creek	Primary Members rated 3, two beams spalled w/ prestressed strands exposed w/ 100% section loss; longitudinal cracks in other beams, hollow sounding near cracks, the begin abutment seat has spall on both sides, rated 3	No	Prestress Concrete Box Beam	25'-0"	1.0 miles	1,936 (2011)	\$400,000
HAM 503 3308550	1932	South Hamilton Rd	Pleasant Brook	Primary Members rated 4, Girder S2 has heavy section loss over the begin bearing area with rust perforations, the lower portion of the web of adjacent girder S1 has approx. 30% section loss at the begin. The lower portion of the web of girder G5 and G2 has a band of 100% section loss over the bearing, G1 end also has a band of severe section loss over the bearing, up to 60% structural deck rated 4	No	Multi-Steel Girder	24'-0"	2.3 miles	233 (2008)	\$450,000
STO 140 (3308980)	1943	Valley Mills Rd	Oneida Creek	Primary Members rated 4; Beam #2 is spalled 3' long by 4" deep near the begin stem exposing one severed strand and one moderately rusted strand. Beam #3 is spalled 4' long by 4" deep at 1/3 span exposing one severely rusted strand with several broken wires		Prestress Concrete Box Beam	48'-0"	3.75 miles	549 (2008)	\$600,000
									TOTAL	\$9,890,000

Structurally Deficient Bridges



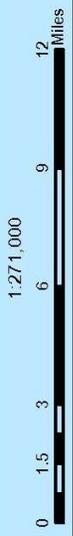
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Map ID	Name
A	Ballina Road
B	Beaver Creek
C	Campbell Road
D	Clockville Road
E	Creek Road
F	East Hill Road
G	East Road
H	Eaton Road
I	Glass Factory Road
J	Green Road
K	Harsh Road
L	Hunt Road
M	Landon Road
N	McGraw Road
O	Middle Lake Road
P	North Court Street
Q	Nower Road
R	Oxbow Road
S	South Court Street
T	South Hamilton Road
U	Valley Mills Road



Legend

- Deficient Bridges
- E911 Roads CLASS**
 - Interstate
 - State
 - US Highway
 - County
 - Municipal Boundary



Date: 1/12/2015

Ballina Road, Cazenovia

Feature crossed: Chittenango Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1946	Multi-Steel Girder	61'0"	5.89 miles	260 (2007)	\$675,000

Efflorescence along the top flange of the left fascia girder, spall in other bays, severe efflorescence. In the end of bay 5, fascia of deck repaired in 2011, leakage through the left and right bay, moderate delamination at the end of G2, light scale on interior girders. Moderate delamination on the bearing plates.



Beaver Creek Road, Brookfield

Feature crossed: Beaver Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1926	Concrete Slab	20'0"	15 miles	278 (2009)	\$450,000

Primary Member rated 4, the end half of the concrete slab has several longitudinal cracks with dripping efflorescence and isolated hollow sounding areas, especially on the left half of the slab.



Campbell Road, Lebanon

Feature crossed: South Lebanon Brook

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1950	Multi-Steel Girder	25'0"	11.95 miles	78 (2008)	\$500,000

Primary Members are rated 3, webs have heavy section loss up to 75% near bearing areas, bridge seat spalled, rated 4.



Clockville Road, Lincoln

Feature crossed: Cowaselon Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1947	Multi-Steel Girder	26'0"	1 mile	569 (2012)	\$150,000

Primary Member rated 3, girder 1 at mid-span has 56% section loss, girder 5 has flange section loss of 77%.



Creek Road, Lincoln

Feature crossed: Cowaselon Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1957	Prestress Concrete Box Beam	31'0"	1 mile	1,397 (2008)	\$500,000

Primary Members rated 3, beam 8 has one exposed heavily corroded strand.

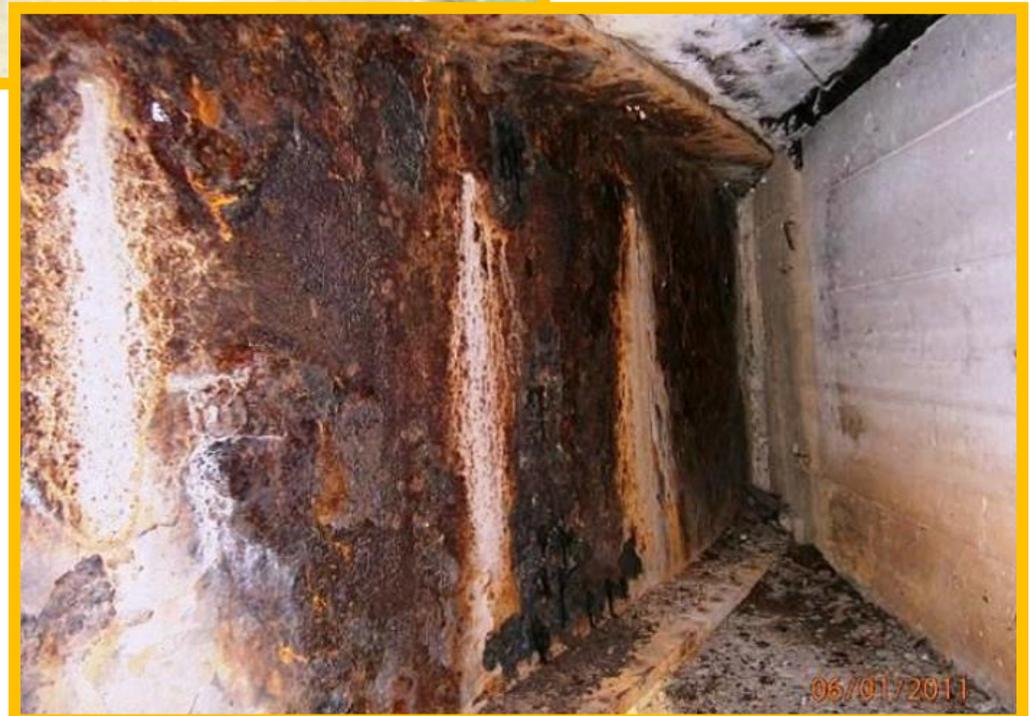


East Hill Road, Georgetown

Feature crossed: Otselic River

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1966	Multi-Steel Girder	50'0"	7 miles	262 (2008)	\$500,000

Moderate scale, heavy scale and delamination on fascia girders at the bottom flange, up to 80% section loss, moderate delamination at the ends of a couple interior girders.



East Road, Cazenovia

Feature crossed: Limestone Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1930	Concrete Slab	22'0"	4.85 miles	896 (2005)	\$550,000

Concrete Slab (primary member rated 3), spalled w/ rebar visible at edges, interior is in good condition, rated 5, abutment rated 4.



Eaton Road, Eaton

Feature crossed: Electric Light Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1956	Prestress Concrete Box Beam	22'0"	11.5 miles	2,605 (2011)	\$615,000

Primary Member rated 4, the right prestressed concrete beam is heavily spalled w/ 2 exposed tendons, one tendon is severed due to 100% section loss, left fascia beam is cracked w/ efflorescence.



Glass Factory Road, Smithfield

Feature crossed: Oneida Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1955	Prestress Concrete Box Beam	26'0"	1.05 miles	101 (2010)	\$150,000

Primary Member rated 4, two beams each have two longitudinal strands exposed, up to 100% section loss.



Green Road, Hamilton

Feature crossed: Sangerfield River

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1930	Multi-Steel Girder	38'0"	3.06 miles	475 (2008)	\$200,000

Primary Members rated 5, minor (<5%) section loss to the upper flanges of girders; Structural Deck rated 3, deck has transverse cracks w/ efflorescence and minor spalling.



Picture above: Green Road bridge

Picture below: Harsh Road bridge



Harsh Road, Sullivan

Feature crossed: Canaseraga Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1955	Prestress Concrete Box Beam	32'0"	4.1 miles	1,071 (2008)	\$150,000

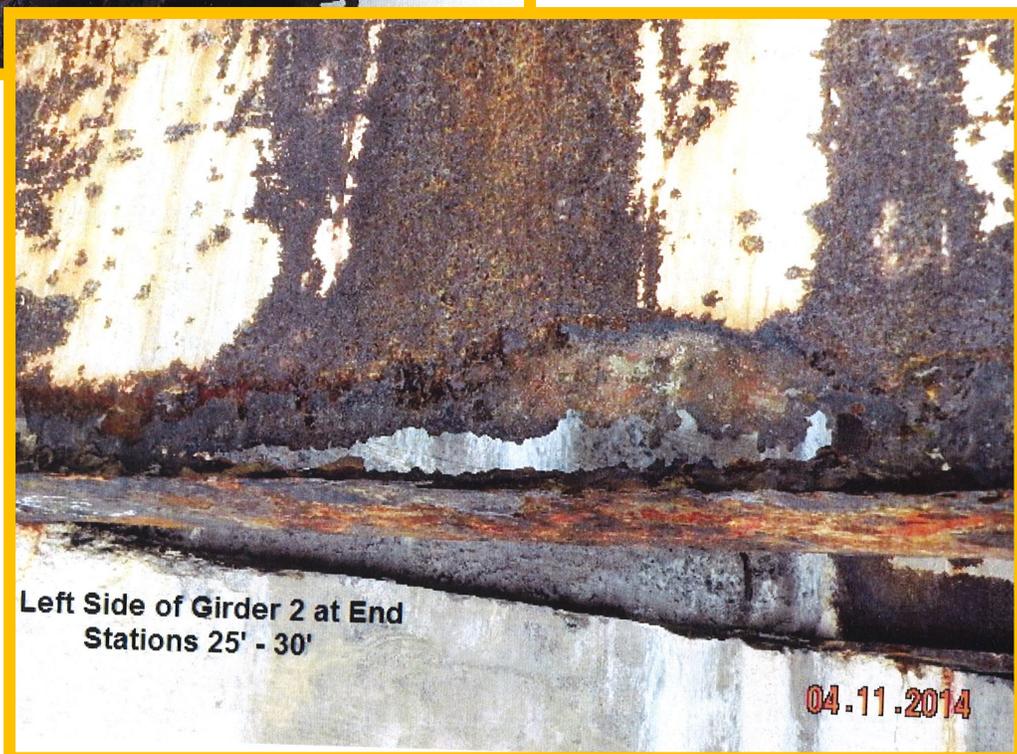
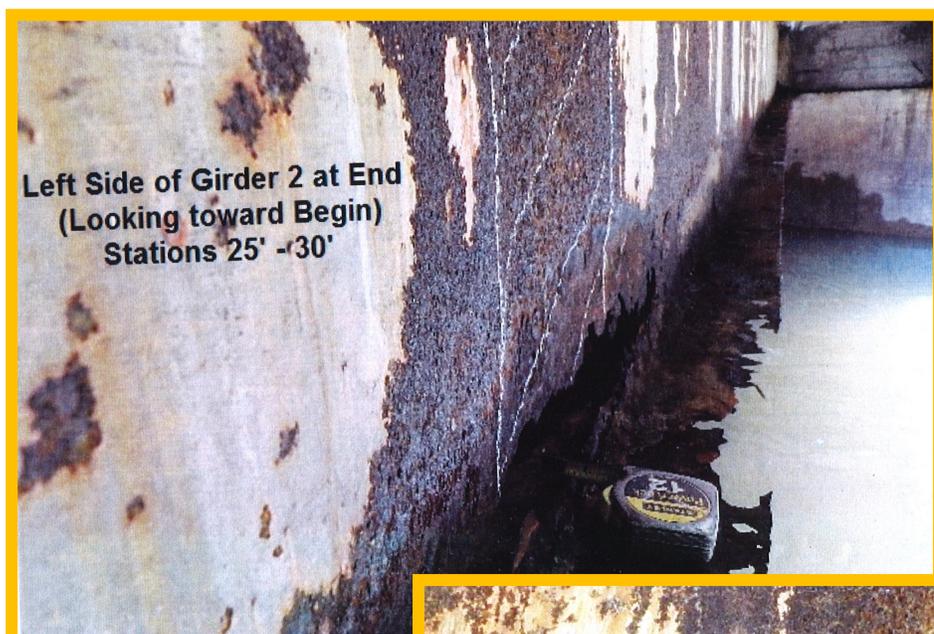
Primary Members rated 3, three beams have longitudinal tendons exposed w/ 20% to 50% section loss, one beam has 1 of 2 exposed tendons w/ 100% section loss.

Hunt Road, DeRuyter

Feature crossed: Middle Branch of Tioughnioga Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1934	Multi-Steel Girder	30'0"	2.98 miles	88 (2008)	\$500,000

Primary Members rated 3, w/ girders having section loss, G2 has up to 100% section loss on the web near bearing area, structural deck rated 3, cracking w/ dripping efflorescence, bridge seat has moderate spall, starting to undermine steel bearing plate, rated 4.



Landon Road, Eaton

Feature crossed: Chenango River

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1956	Multi-Steel Girder	45'0"	2.7 miles	810 (2010)	\$500,000

Primary Member rated 4, w/ both fascia girders having 10% to 20% web section loss, flange loss of the fascia girder is up to 5%; End Bridge seat at G-5 is spalled to 5 1/2" deep, 10% loss of bearing; structural deck is rated 3.



McGraw Road, Sullivan

Feature crossed: Chittenango Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1932	Multi-Steel Girder	75'0"	4.35 miles	505 (2008)	\$750,000

Primary Members rated 4, interior girders have heavy web section loss, up to 35%, up to 29% bottom flange section loss; Structural Deck is rated 3.



Picture above: McGraw Road bridge

Picture below: Middle Lake Road bridge



Middle Lake Road, DeRuyter

Feature crossed: Middle Branch of Tioughnioga Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1962	Prestress Concrete Box Beam	32'0"	5.4 miles	1,092 (2011)	\$400,000

Primary Members rated 4, localized spall w/ reinforcement exposed, exposed tendon has 100% section loss, abutment rated 4 due to spall at bridge seat, end abutment footing rated 3, due to possible movement.

North Court Street, Lenox

Feature crossed: CSX Railroad

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1962	Multi-Steel Girder	53'0"	6.25 miles	5,134 (2012)	\$1,200,000

Heavy web section loss of girders in span 2 over the pier 2 bearings, section loss up to 82%, up to 50% section loss in webs of girders in span 1 over the pier 1 bearings, girders in span 3 have up to 56% web section loss over the pier 2 bearings.



Nower Road, Lebanon

Feature crossed: Chenango River

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1955	Multi-Steel Girder	60'0"	2.87 miles	544 (2008)	\$250,000

Primary Members rated 4, girders have up to 30% section loss on web and 19% section loss on flanges.



Oxbow Road, Smithfield

Feature crossed: Oneida Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1977	Corrugated Metal Plate Pipe Arch	24'0"	5.0 miles	1,880 (2005)	\$400,000

Stress cracks surrounding structurally bolted connections and section loss of steel plates.



Picture above: Oxbow Road bridge

Picture below: South Court Street bridge

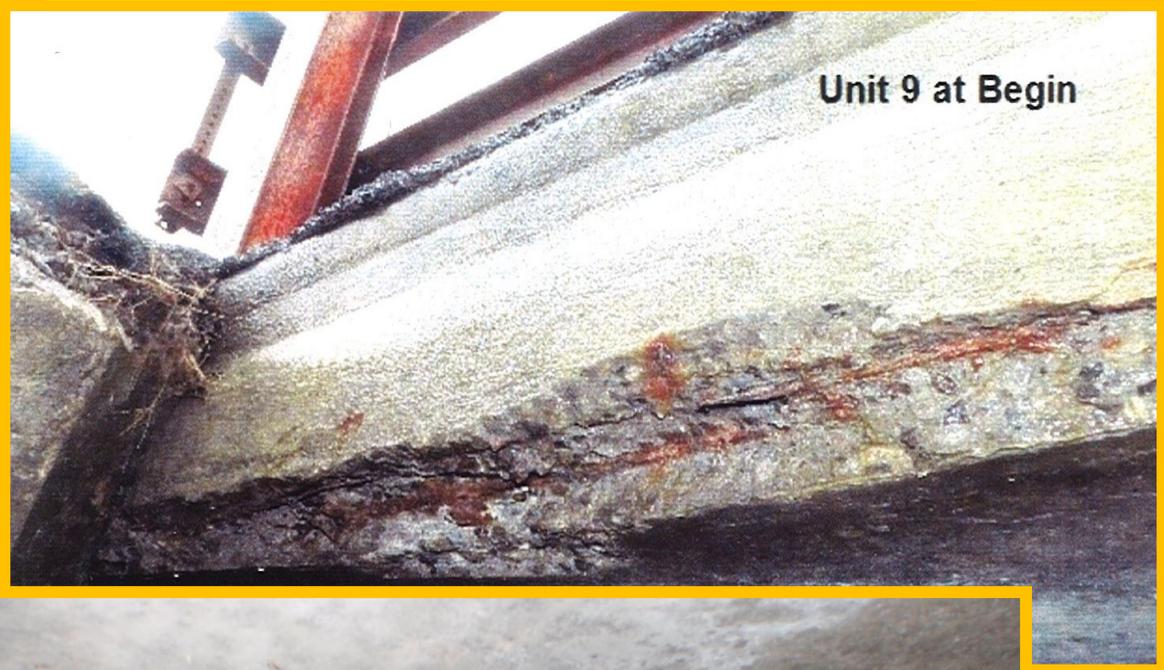


South Court Street, Lincoln

Feature crossed: Clockville Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1957	Prestress Concrete Box Beam	25'0"	1.0 mile	1,936 (2011)	\$400,000

Primary Members rated 3, two beams spalled w/ prestressed strands exposed w/ 100% section loss; longitudinal cracks in other beams, hollow sounding near cracks, the begin



Pictures: South Court Street bridge

South Hamilton Road, Hamilton

Feature crossed: Pleasant Brook

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1932	Multi-Steel Girder	24'0"	2.3 miles	233 (2008)	\$450,000

Primary Members rated 4, Girder S2 has heavy section loss over the begin bearing area with rust perforations, the lower portion of the web of adjacent girder S1 has approx. 30% section loss at the begin. The lower portion of the web of girder G5 and G2 has a band of 100% section loss over the bearing, G1 end also has a band of severe section loss over the bearing, up to 60% structural deck rated 4.



Valley Mills Road, Stockbridge

Feature crossed: Oneida Creek

Year Built	Bridge Type	Span	Detour Length	Traffic Volume	Estimated Replacement Cost
1943	Prestress Concrete Box Beam	48'0"	3.75 miles	549 (2008)	\$600,000

Primary Members rated 4; Beam #2 is spalled 3' long by 4" deep near the begin stem exposing one severed strand and one moderately rusted strand. Beam #3 is spalled 4' long by 4" deep at 1/3 span exposing one severely rusted strand with several broken wires.





Prepared by: Madison County Administrator's Office

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