



Mandatory Bridges

June 3, 2021

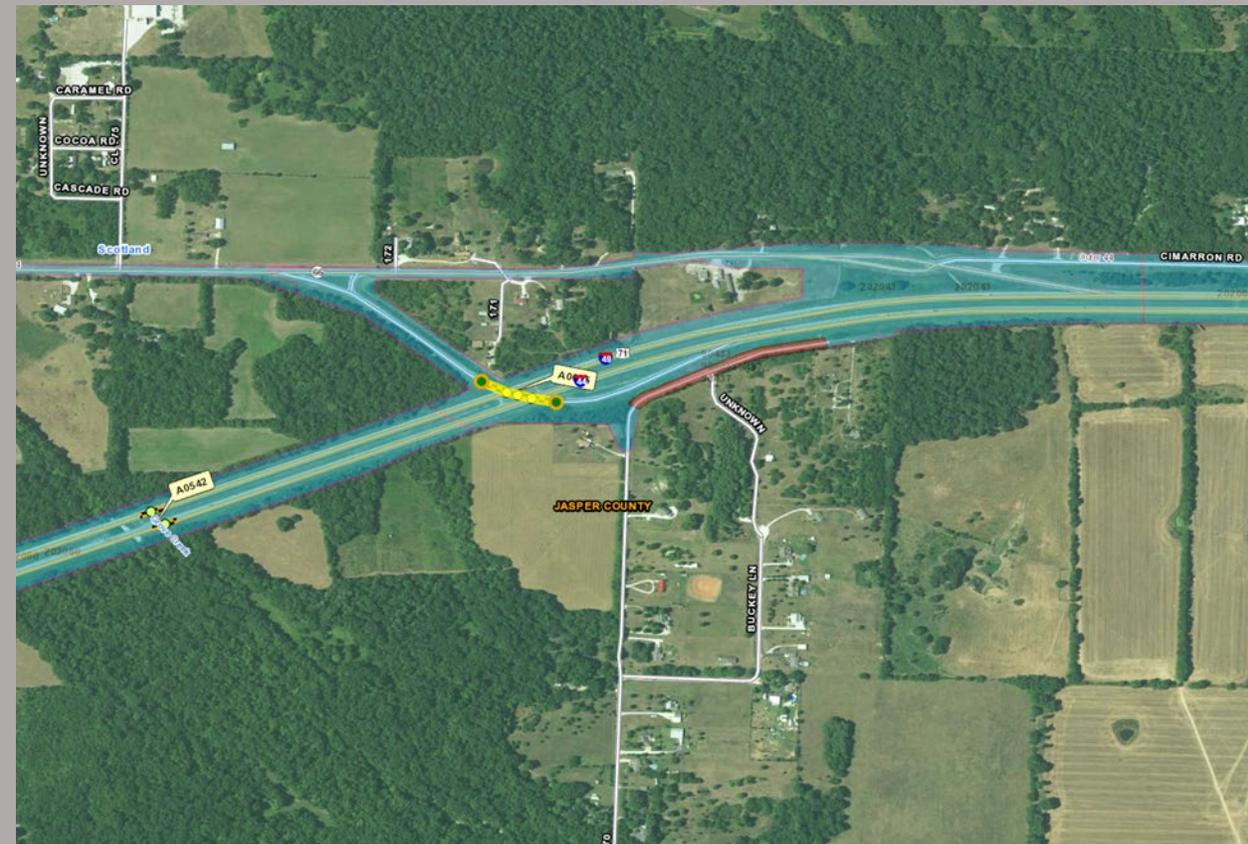
Laurel McKean, Project Director

Bridge #A0625

Loop 44 EB/MO 66 EB over I-44 EB & WB

Jasper County

- Known as Scotland Interchange
- East of Dueneweg
- TIS/AJR/CE2 in process to completely remove Exit
- Potential to remove from list if cannot gain consensus on elimination
- Option: Keep in and minimum treatment of replacement



Mandatory:	Y	AADT:	1509
Ratings:	3,3,5	Truck %:	13.5
Treatment:	Elimination	Existing Bridge Type:	Concrete Box Girder
Grade Change:	0"	44 Incident Bypass Route:	No
Crossing Type:	Interstate		

Bridge #L0055
MO37 over Dry Branch
Lawrence County

- East side of Pierce City
- Main route into Pierce City
- Water does not overtop the bridge
- No routine removal of drift
- Water will go over the road surface 150' west of structure
- Fire Station west of location
- City park on south side of RR tracks
- No crashes
- Utilities in area



L0055 - Lawrence - 7/6/20

MO 37 over Dry Branch

General - looking east



Mandatory:	Y	AADT:	3279
Ratings:	4,4,3	Truck %:	9.1
Treatment:	Replacement	Existing Bridge Type:	Wide Flange Girder
Potential Grade Change:	0.1'	I44 Designated Bypass Route:	Yes
Crossing Type:	Water		

Bridge #A0922E

I-44 over Freistatt Branch

Lawrence County



A0922 Lawrence 4-13-2021
EB I-44 over Freistatt Branch
North Profile Looking West

- No knowledge of water over bridge
- Remove drift once every 5 years

- No crashes
- Kissee Farms go under the bridges to access property on N side of I-44



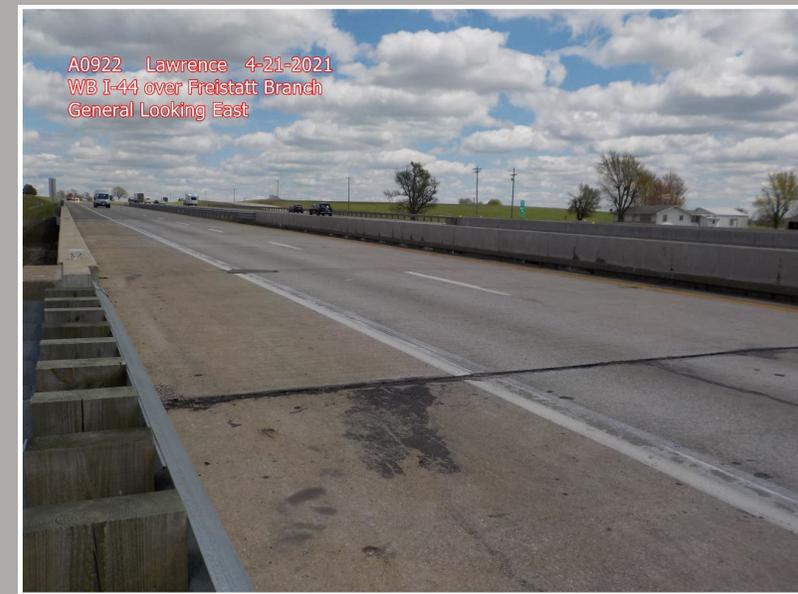
A0922 Lawrence 4-13-2021
EB I-44 over Freistatt Branch
1st. Pavement Slab East of Bridge Failing



A0922 Lawrence 4-13-2021
EB I-44 over Freistatt Branch
Heavy Rust Top Flange under Outlets

Mandatory:	Y	AADT:	14865
Ratings:	6,4,6	Truck %:	26.2
Min Treatment:	Rehab	Existing Bridge Type:	Wide Flange Girder
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		

Bridge #A0922 W I-44 over Freistatt Branch Lawrence County



- No knowledge of water over bridge
- Remove drift once every 5 years



- No crashes
- Kissee Farms go under the bridges to access property on both sides of 44



Mandatory:	Y	AADT:	14773
Ratings:	6,4,6	Truck %:	26.2
Min Treatment:	Rehab	Bridge Type:	Wide Flange Girder
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		



Bridge #N0577

Route V over Williams Creek

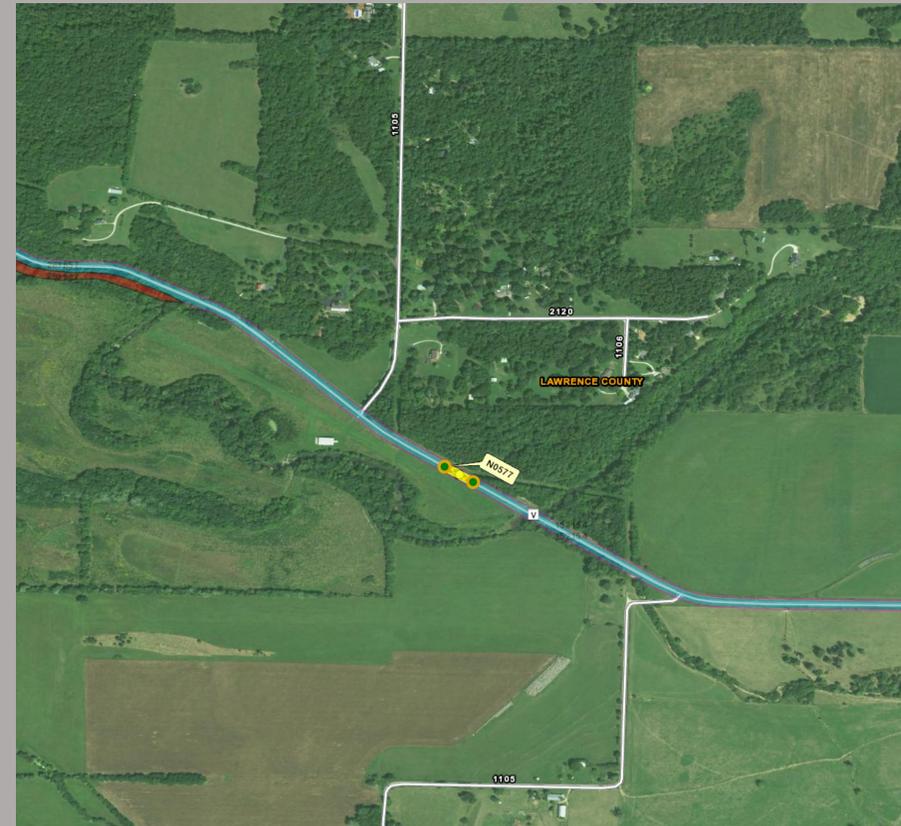
Lawrence County

N0577 - Lawrence - 7/8/20

Rt. V over Williams Creek



- No routine occurrences of water overtopping bridge
- No major drift issues
- Used by farming equipment
- Tight work space
- ROW tight on south side N of creek
- No crashes



Mandatory:	Y	AADT:	723
Ratings:	3,6,6	Truck %:	6.8
Min Treatment:	Redeck	Existing Bridge Type:	Wide Flange Girder
Potential Grade Change:	0.04'	I44 Incident Bypass Route:	No
Crossing Type:	Water		

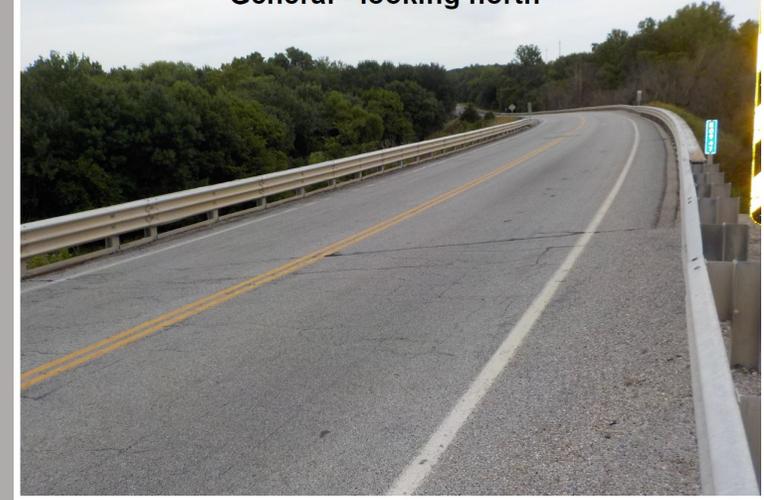
Bridge #K0947

Route H over MNA/UP RR

Lawrence County

K0947 - Lawrence - 7/9/20 Rt. H over MNA RR

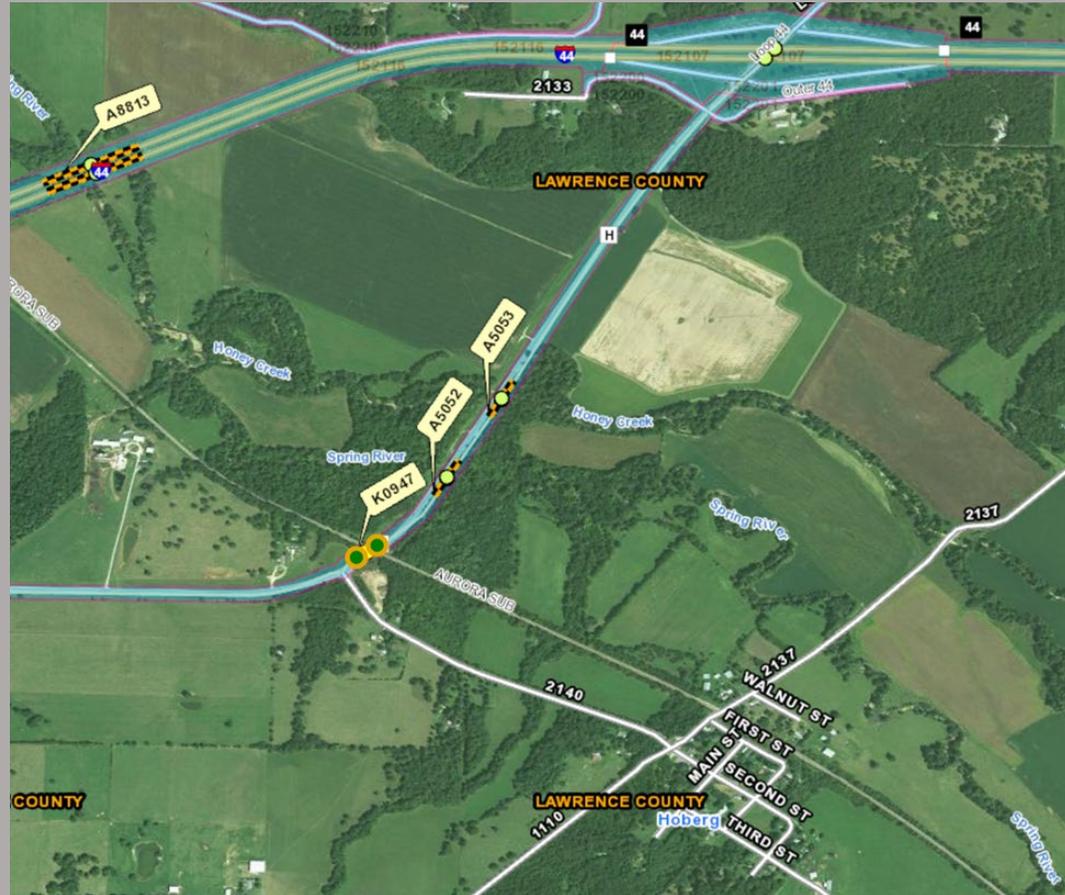
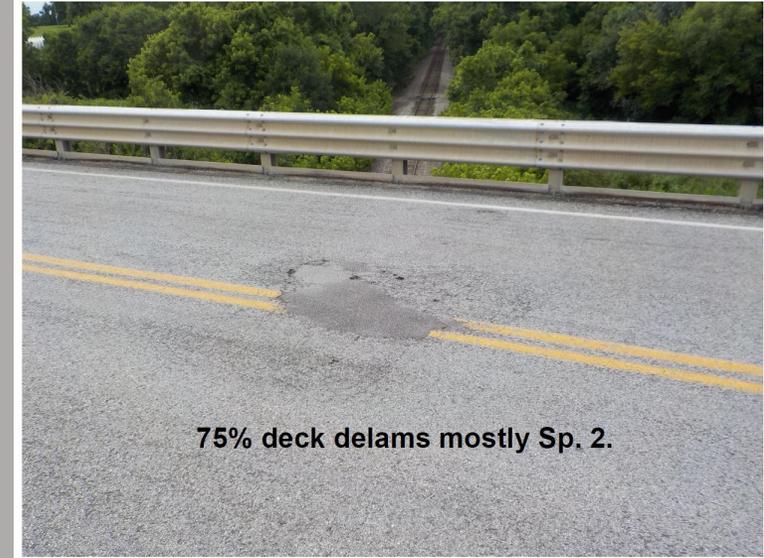
General - looking north



- Conceptual plans have already been sent to UP RR
- Plan to provide at least 30% Preliminary plans
- Potential to remove from list of bridges
- MoDOT has a lot on south end which could be used for staging

K0947 - Lawrence - 7/9/20 Rt. H over MNA RR

75% deck delams mostly Sp. 2.



Mandatory:	Y	AADT:	4359
Ratings:	3,3,5	Truck %:	12.9
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder
Potential Grade Change:	2.33'	I44 Incident Bypass Route:	
Crossing Type:	Railroad		

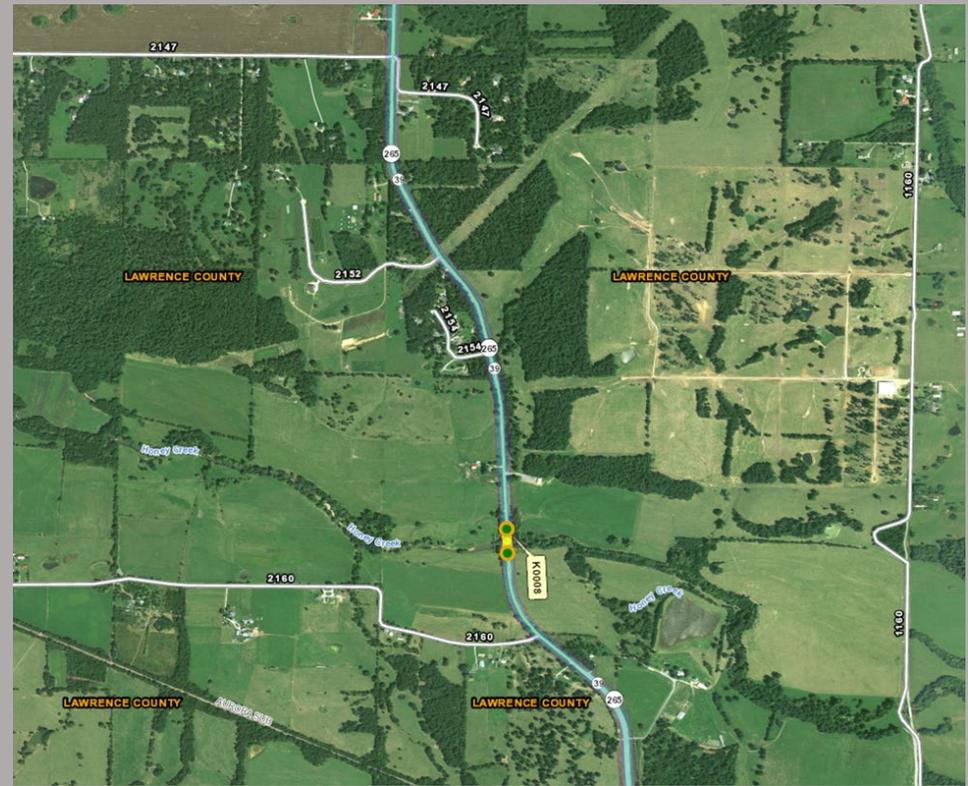
Bridge #K0008

MO39 over Honey Creek

Lawrence County



- MO39 connects Mt. Vernon to Aurora
- Water has gone over the road but not very deep
- Seldomly must remove drift
- Trash trucks, farming and fuel trucks utilize the route
- Narrow bridge and curve on south side



9 crashes in 6 years

- 7 crashes involved two vehicles striking mirrors or other part of vehicle with many involving one of the vehicles crossing the centerline



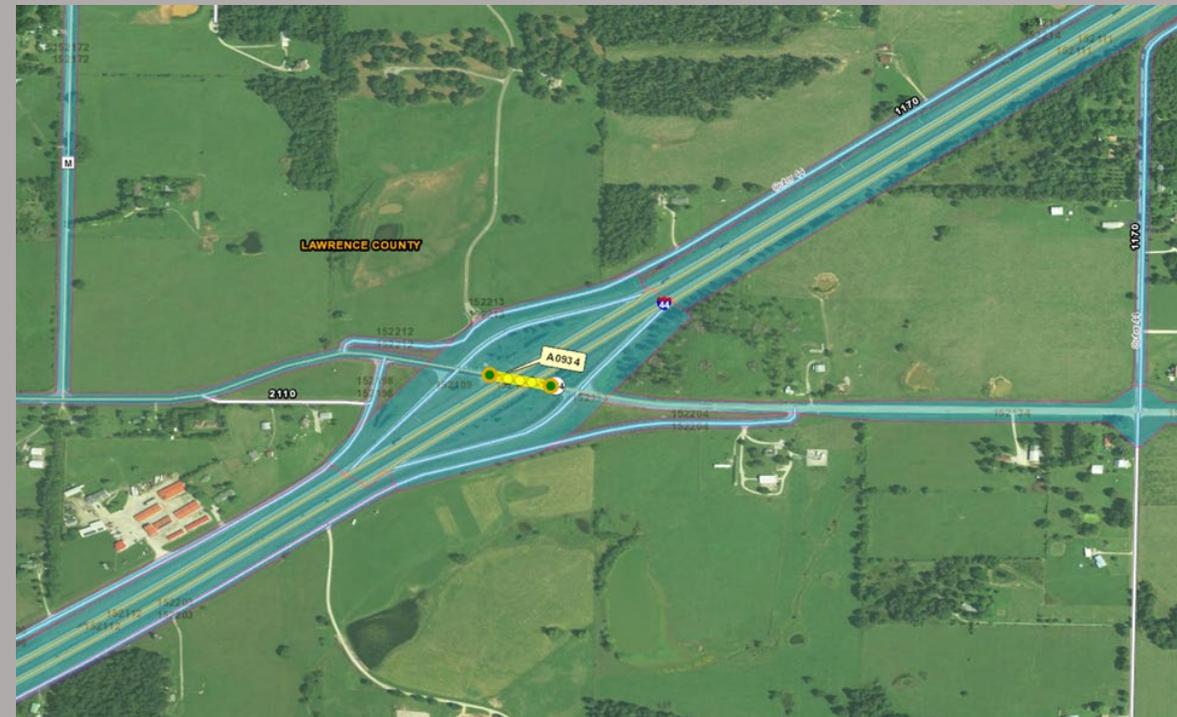
Mandatory:	Y	AADT:	4585
Ratings:	3,3,5	Truck %:	15.5
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder
Potential Grade Change:	3"	I44 Incident Bypass Route:	
Crossing Type:	Water		

Bridge #A0934
MO174 over I-44 EB & WB
Lawrence County

- One of 3 interchanges for Mt. Vernon
- Used by dump trucks, fuel trucks, tractor trailers and farming
- Must be mindful of sight distance
- Energy truck company down outer road
- Quarry out south of bridge
- Housing developments
- Standing water under bridge



- Crashes at ramps and W OR typical of intersection crash types



Mandatory:	Y	AADT:	2672
Ratings:	3,4,6	Truck %:	6.5
Min Treatment:	Redeck	Existing Bridge Type:	Wide Flange Girder
Potential Grade Change:	2'-10"	I44 Incident Bypass Route:	Yes
Crossing Type:	Interstate		

Bridge #P0158

Route M over Turnback Creek

Lawrence County

Mandatory:	Y	AADT:	295
Ratings:	3,3,5	Truck %:	10.7
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder
Potential Grade Change:	0"	I44 Incident Bypass Route:	No
Crossing Type:	Water		

- No knowledge of water overtopping bridge
- 4" deep water over roadway about 100 yards
- Remove drift about once every other year
- Farming
- Fishing and recreational use around and under bridge
- One lane bridge



P0158 - Lawrence - 7/3/20 Rt. M over Turnback Creek



P0158 - Lawrence - 7/3/20 Rt. M over Turnback Creek



- No crashes

Bridge #A0596
MO96 over Johnson Creek
Lawrence County

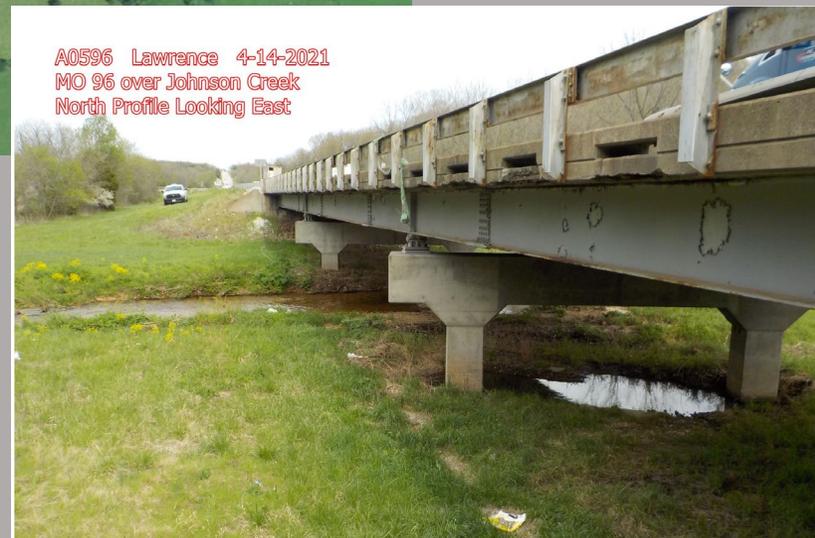
Mandatory:	Y	AADT:	4129
Ratings:	3,6,6	Truck %:	25.1
Min Treatment:	Redeck	Existing Bridge Type:	Wide Flange Girder
Potential Grade Change:	0"	I44 Incident Bypass Route:	Yes
Crossing Type:	Water		



- No known issues of water overtopping bridge
- No issues with drift
- Fuel trucks, trash trucks, farming and grain truck usage
- No crashes
- Main incident bypass route for I-44
- Route for trash trucks to Lamar landfill because cannot use I-44



A0596 Lawrence 4-14-2021
 MO 96 over Johnson Creek
 Heavy Deck Edge Deterioration Sp. 2



A0596 Lawrence 4-14-2021
 MO 96 over Johnson Creek
 North Profile Looking East



A0596 Lawrence 4-14-2021
 MO 96 over Johnson Creek
 General Looking West

Bridge #A0597
 MO96 over Turnback Creek
 Lawrence County

Mandatory:	Y	AADT:	6060
Ratings:	4,6,5	Truck %:	16.6
Min Treatment:	Redeck	Existing Bridge Type:	Simple WF & Cont. Non-Comp WF
Potential Grade Change:	0"	I44 Incident Bypass Route:	44 Designated
Crossing Type:	Water		

- No known overtopping of bridge
- 500' to west of bridge water does overtop the road but not deep
- Fuel trucks, trash trucks, farming and grain trucks
- Main incident bypass route for I-44
- Route for trash trucks to Lamar Landfill
- No crashes
- Conservation river public access to the north of the bridge
- Brittain Mill to the south of the bridge



A0597 Lawrence 4-14-2021
 MO 96 over Turnback Creek
 North Profile Looking West



A0597 Lawrence 4-14-2021
 MO 96 over Turnback Creek
 Bt. 3 North Cap End Deterioration
 Stirrups Advanced Rebar Section Loss



A0597 Lawrence 4-14-2021
 MO 96 over Turnback Creek
 Flat Plate-Ext Jt @ East Abutment



A0597 Lawrence 4-14-2021
 MO 96 over Turnback Creek
 General Looking West

Bridge #A0174W

I-44 over Pickerel Creek

Greene County



- Water does not overtop bridge
- Remove drift maybe every 5 years
- Landowner on S side does go to N side under bridge
- No correctable crashes
- Hydraulics and profile must match new companion bridge
- Traffic control concern with bridge being in valley and another bridge east of location

A0174 - Greene - 8/11/20

WB I-44 over Pickerel Creek



General - looking west

A0174 - Greene - 8/11/20

WB I-44 over Pickerel Creek



North profile - looking east.

Mandatory:	Y	AADT:	16620
Ratings:	4,4,6	Truck %:	26.2
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		

Bridge #L0682E

I-44 over East Fork Niangua River

Webster County

L0682 - Webster - 11/20/20

EB I-44 over East Fork Niangua River



L0682 - Webster - 11/20/20

EB I-44 over East Fork Niangua River



- No issues with water overtopping bridge
- Remove drift every 2 to 3 years
- No design exceptions for Freeboard will be accepted
- Design in conjunction with companion bridge L0379

L0682 - Webster - 11/20/20

EB I-44 over East Fork Niangua River

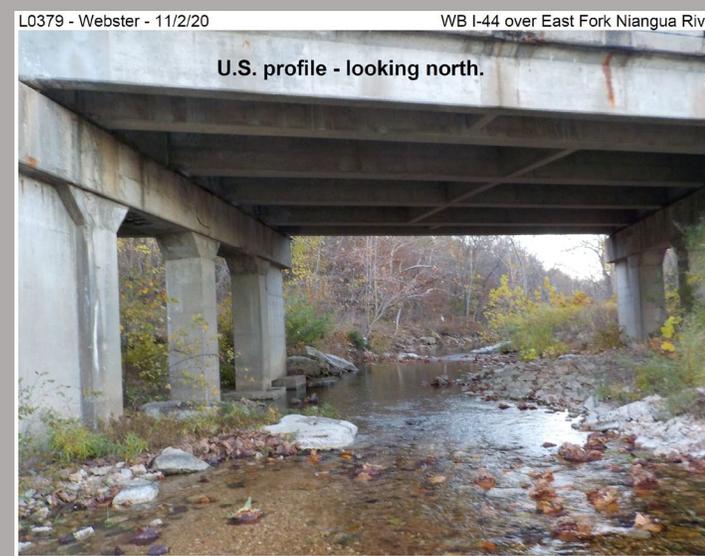


Mandatory:	Y	AADT:	13840
Ratings:	6,3,4	Truck %:	29.3
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder (Widened)
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		

Bridge #L0379W

I-44 over East Fork Niangua River

Webster County



- No issues with water overtopping bridge
- Remove drift every 2 to 3 years
- No design exceptions for freeboard will be accepted
- Design in conjunction with companion bridge L0682

Crash History 2015- 2021

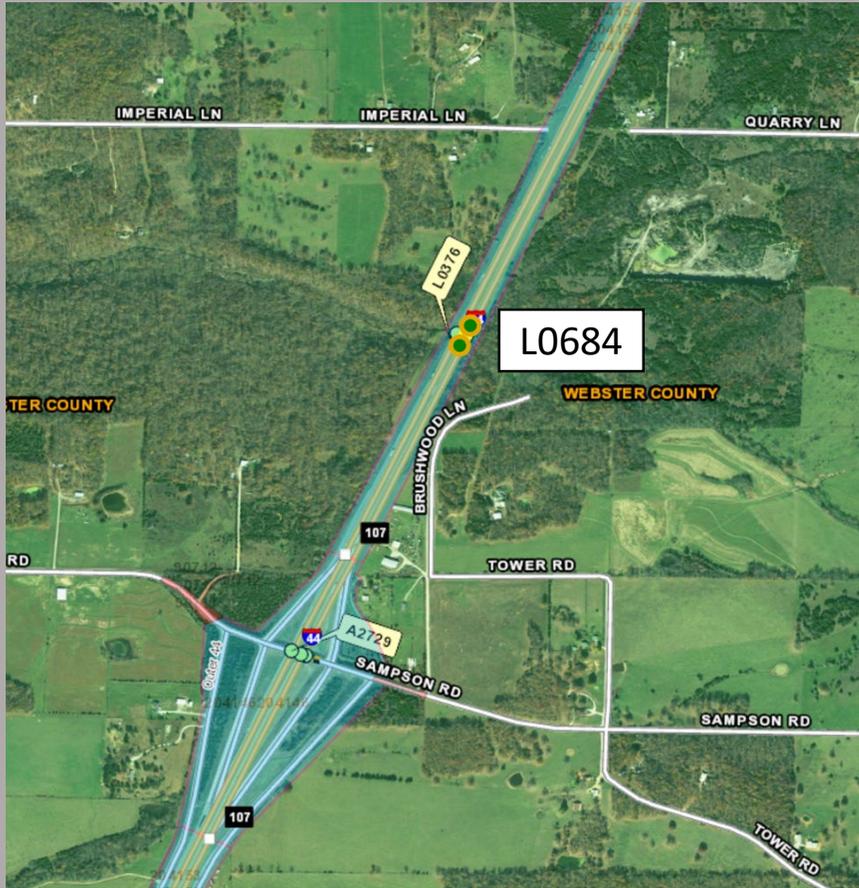
- 7 crashes East of and on bridge
- 3 went off left side of road, down the grassy median and into the Niangua
- 2 lost control downhill, hit end terminal, ended in grassy median
- 1 lost control avoiding deer
- 1 hit disabled car parked on shoulder



- Bridge has slight incline as you exit bridge end creating issues during winter events

Mandatory:	Y	AADT:	14,594
Ratings:	5,4,4	Truck %:	28.7
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder (Widened)
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		

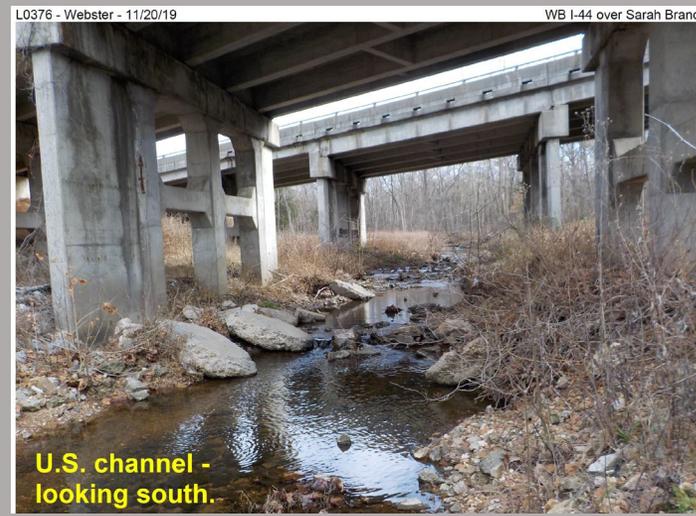
Bridge #L0684E
I-44 over Sarah Branch
Webster County



- Known as Sarah Branch and Bowen Prairie Creek
- No knowledge of water overtopping bridge
- Clean drift maybe every 5 years
- Design exceptions for freeboard will not be accepted
- Design in conjunction with companion bridge L0376

Mandatory:	Y	AADT:	14633
Ratings:	5,5,5	Truck %:	29.3
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder (Widened)
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		

Bridge #L0376W I-44 over Sarah Branch Webster County



- Known as Sarah Branch and Bowen Prairie Creek
- No knowledge of water overtopping bridge
- Clean drift maybe every 5 years
- Design exception for freeboard will not be accepted
- Design in conjunction with companion bridge L0684

Mandatory:	Y	AADT:	14506
Ratings:	4,4,4	Truck %:	28.7
Min Treatment:	Replacement	Existing Bridge Type:	Concrete Deck Girder (Widened)
Potential Grade Change:	0"	I44 Incident Bypass Route:	Mainline
Crossing Type:	Water		

