



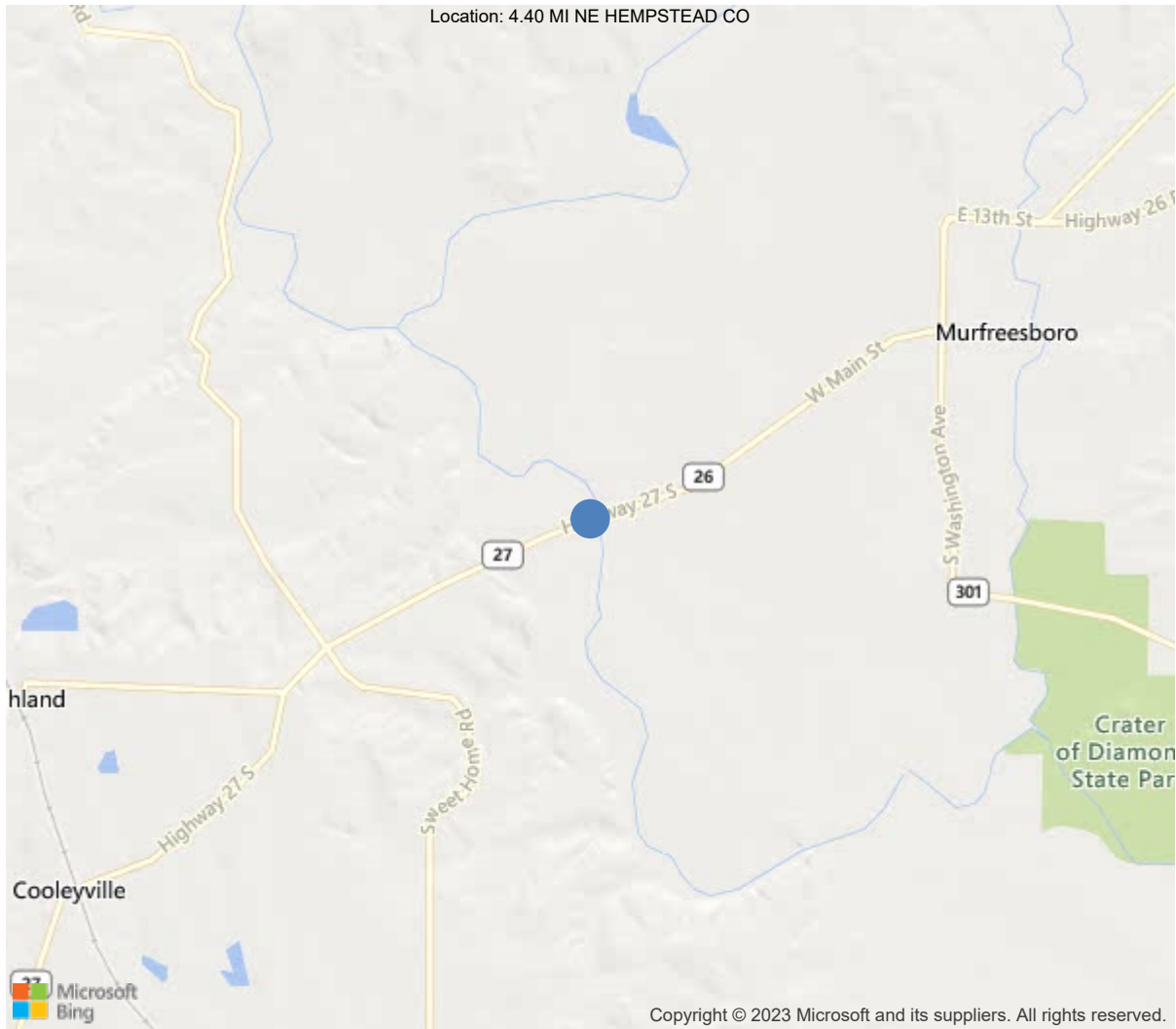
Latitude:34.04856, Longitude:-93.72110

Route:27 Section:04 Log:4.4

Arnold Road ID:55x27x4xA, Arnold Log mile:4.402

District 03, 109 - Pike County

Owner: 1 - State Highway Agency



34.04856, -93.72110



Asset #01029(Routine, Underwater type 2)

SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

| IDENTIFICATION | |
|---|--|
| (1) State Names | 5 - Arkansas |
| (8) Structure Number | 01029 |
| (5) Inventory Route | 1 |
| (2) Highway Agency District | 03 - District 03 |
| (3) County Code | 109 - Pike County |
| (4) Place Code | 0 |
| (6) Features Intersected | LITTLE MISSOURI RIVER |
| (7) Facility Carried | SH 27 - 04 - 4.40 |
| (9) Location | 4.40 MI NE HEMPSTEAD CO |
| (11) Mile Point | 4.4 mi |
| (12) Base Highway Network | No |
| (13) LRS Inventory Rte & Subrte | 0000000000 |
| (16) Latitude | 34.04856 |
| (17) Longitude | -93.7211 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 42 |
| Material | 4 - Steel continuous |
| Type | 2 - Stringer/Multi-beam or girder |
| (44) Approach Structure Type | 14 |
| Material | 1 - Concrete |
| Type | 4 - Tee beam |
| (45) No. of Spans in Main Unit | 3 |
| (46) No. of Approach Spans | 11 |
| (107) Deck Structure Type | 1 - Concrete Cast-in-Place |
| (108) Wearing Surface/Protective System | |
| Type of Wearing Surface | 1 - Monolithic Concrete (concurrently pl |
| Type of Membrane | 0 - None |
| Type of Deck Protection | 0 - None |
| AGE AND SERVICE | |
| (27) Year Built | 1933 |
| (106) Year Reconstructed | 1983 |
| (42) Type of Service | 15 |
| On | 1 - Highway |
| Under | 5 - Waterway |
| (28) Lane | |
| On | 2 |
| Under | 0 |
| (29) Average Daily Traffic | 3700 |
| (30) Year of ADT | 2018 |
| (109) Truck ADT | 1 % |
| (19) Bypass, Detour Length | 36 mi |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 112 ft |
| (49) Structure Length | 666 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0 ft |
| Right | 0 ft |
| (51) Bridge Roadway Width Curb to Curb | 44.3 ft |
| (52) Deck Width Out to Out | 47.3 ft |
| (32) Approach Roadway Width (W/Shoulders) | 44 ft |
| (33) Bridge Median | 0 - No median |
| (34) Skew | 0 Deg |
| (35) Structure Flared | 0 - No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 45.9 ft |
| (53) Min Vert Clear Over Bridge Rdwy | 99.99 ft |
| (54) Min Vert Underclear | 0 ft |
| Ref: | |
| (55) Min Lat Underclear RT | 99.9 ft |
| Ref: | |
| (56) Min Lat Underclear LT | 0 ft |
| NAVIGATION DATA | |
| (38) Navigation Control | 0 - No navigation control on w |
| (111) Pier Protection | 1 - Navigation protection not |
| (39) Navigation Vertical Clearance | 0 ft |
| (116) Vert-Lift Bridge Nav Min Vert Clear | 0 ft |
| (40) Navigation Horizontal Clearance | 0 ft |

| CLASSIFICATION | |
|--|-------------------------------------|
| (112) NBIS Bridge Length | Y |
| (104) Highway System | 0 |
| (26) Functional Class | 6 - Rural Minor Arterial |
| (100) Defense Highway | 0 - The inventory route is not |
| (101) Parallel Structure | N - No parallel structure exists |
| (102) Direction of Traffic | 2 - way traffic |
| (103) Temporary Structure | |
| (105) Federal Lands Highways | 0 - N/A |
| (110) Designated National Network | 0 - The inventory route is not |
| (20) Toll | 3 - On free road. The structure |
| (21) Maintain | 1 - State Highway Agency |
| (22) Owner | 1 - State Highway Agency |
| (37) Historical Significance | 5 - Bridge is not eligible for |
| CONDITION | |
| (58) Deck | 7 |
| (59) Superstructure | 6 |
| (60) Substructure | 6 |
| (61) Channel & Channel Protection | 7 |
| (62) Culverts | N |
| LOAD RATING AND POSTING | |
| (31) Design Load | 0 - Other or Unknown |
| (63) Operating Rating Method | 1 |
| (64) Operating Rating | |
| Type | 1 - Load Factor(LF) |
| Rating | 58 |
| (65) Inventory Rating Method | 1 - Load Factor(LF) |
| (66) Inventory Rating | |
| Type | |
| Rating | 35 |
| (70) Bridge Posting | 5 - Equal to or above legal loads |
| (41) Structure Open/Posted/Closed | A - Open, no restriction |
| APPRAISAL | |
| (67) Structural Evaluation | 6 |
| (68) Deck Geometry | 9 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 7 |
| (72) Approach Roadway Alignment | 8 |
| (36A) Bridge Railings | 1 - Inspected feature meets current |
| (36B) Transitions | 1 - Inspected feature meets current |
| (36C) Approach Guardrail | 1 - Inspected feature meets current |
| (36D) Approach Guardrail Ends | 1 - Inspected feature meets current |
| (113) Scour Critical Bridges | 5 - Bridge foundations determined t |
| PROPOSED IMPROVEMENTS | |
| (75) Type of Work | |
| (76) Length of Structure Improvement | 0 ft |
| (94) Bridge Improvement Cost | \$ 0 |
| (95) Roadway Improvement Cost | \$ 0 |
| (96) Total Project Cost | \$ 0 |
| (97) Year of Improvement Cost Estimate | 0 |
| (114) Future ADT | 4013 |
| (115) Year of Future ADT | 2028 |

| INSPECTIONS * | | | |
|---|------------|-------------|------|
| (90) Inspection Date | 07/20/2022 | | |
| (91) Frequency | 24 | | |
| (92) Critical Feature Inspection | Done | Freq. (Mon) | Date |
| A: Fracture Critical Detail | No | | |
| B: Underwater Inspection | No | | |
| C: Other Special Inspection | | | |
| <p>* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.</p> | | | |



General Observation

7/20/2020...AL, Elevation, Deck, Def photos taken...7/20/2022.. Alignment, Elevation, Def. Photos taken. Soundings taken this inspection... cracking in top side of deck, added photos to previous finds..

58 - Deck (7 - GOOD CONDITION - some minor problems.)

LONG. & TRANV. DECK CRACKING HAVE BEEN SEALED IN 2003. Efflorescence BOTTOM SIDE DECK MOST IN SPAN 4 ON 10 FT CENTERS..END BRIDGE APPROACH SLAB 35 SQFT PATCH AREA IN TOP OF DECK ... 07/22 Little change per this inspection..

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

4in. GAS PIPE ATTACHED TO DIAPHRAMS IN SPANS #5,6 & 7; NOTED ON PLANS---- CONCRETE GIRDERS DEF. PHOTO TAKEN IN 2016...BENT 3 SPAN 2 SIDE DELAM IN END OF RCDG... FIXED PER 2018 INSPECTION..BENT 4 CRACK IN END OF RCDG BOTTOM OF GIRDER....BENT 9 CRACK IN END OF RCDG #4....BENT 11 DELAM IN END OF RCDG #1....BENT 12 CRACK IN END OF RCDG #4.... 07/22 Little change this inspection.

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

CONCRETE CAPSBENT 1 SPALLS ON END OF CAP LEFT SIDE...FIXED PER 2018 INSPECTIONBENT 2 SPALLS ON CAP LEFT SIDE...FIXED PER 2018 INSPECTIONBENT 3 DELAM ON CAP LEFT SIDE FIXED PER 2018 INSPECTIONBENT 4 SMALL SPALL ON RIGHT SIDE AND LEFT SIDE OF CAP...BENT 5 (PIER 1) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ...FIXED PER 2018 INSPECTIONBENT 6 (PIER 2) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ...BENT 7 (PIER 3) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER...BENT 8 (PIER 4) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ...BENT 9 SMALL CRACK IN OLD CAP...BENT 10 LARGE SPALL W/REBAR EXPOSED 1/8" SECT LOSS TO REBAR...FIXED PER 2018 INSPECTIONBENT 11 CRACK IN TOP OF CAP AT PILES 4 AND 5...BENT 12 DELAM IN CAP AT PILE 3 AND ONE AT PILE 5, FIXED PER 2018 INSPECTION CRACK WITH EFFLORESCENCE AT PILE 6...BENT 13 CRACK IN TOP OF CAP AT PILES 5 AND 6...BENT 14 CRACK IN RIGHT SIDE OLD CAP W/ EFFLORESCENCE.....BENT 15 SMALL SPALL
07/22 Little change per this inspection...

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

7/20/2022... Soundings taken per this inspection

A-46 - Asset Files

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Asset #01029(Routine, Underwater type 2)

SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|--|-------|-------|-------|-------|-----|-----|
| 12 | Reinforced Concrete Deck | SF | 15845 | 14845 | 1000 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 400 | 0 | 400 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 600 | 0 | 600 | 0 | 0 |
| (12) LONG. & TRANV. DECK CRACKING HAVE BEEN SEALED IN 2003. | | | | | | | |
| (1120-12) Efflorescence on underside of deck at various locations all spans | | | | | | | |
| (1130-12) 07/22 cracking in deck various locations ... | | | | | | | |
| 38 | RC Slab | SF | 15609 | 15374 | 235 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | SF | 35 | 0 | 35 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 200 | 0 | 200 | 0 | 0 |
| (38) Efflorescence BOTTOM SIDE DECK MOST IN SPAN 4 ON 10 FT CENTERS.. END BRIDGE APPROACH SLAB 35 SQFT PATCH AREA IN TOP OF DECK ... | | | | | | | |
| 107 | Steel Open Girder/Beam | LF | 2014 | 2014 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 13200 | 0 | 13200 | 0 | 0 |
| 3430 | Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings) | LF | 13200 | 0 | 13200 | 0 | 0 |
| (107) FRECKLED RUST IS FORMING IN VARIOUS LOCATIONS, PAINT SYSTEM IS BEGINNING TO FAIL. | | | | | | | |
| 110 | Reinforced Concrete Open Girder/Beam | LF | 1320 | 1311 | 9 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 5 | 0 | 5 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 4 | 0 | 4 | 0 | 0 |
| (110) CONCRETE GIRDERS PHOTO TAKEN IN 2016... BENT 3 SPAN 2 SIDE DELAN IN END OF RCDG... BENT 4 CRACK IN END OF RCDG BOTTOM OF GIRDER.... BENT 9 CRACK IN END OF RCDG #4.... BENT 11 DELAM IN END OF RCDG #1.... BENT 12 CRACK IN END OF RCDG #4.... | | | | | | | |
| 205 | Reinforced Concrete Column | EA | 16 | 16 | 0 | 0 | 0 |
| 215 | Reinforced Concrete Abutment | LF | 72 | 72 | 0 | 0 | 0 |
| 227 | Reinforced Concrete Pile | EA | 108 | 108 | 0 | 0 | 0 |
| (227) bt. 11 pile 6 has a spall with rebar exposed near top of pile. REPAIRS MADE PER 2018 INSPECTION... | | | | | | | |
| 234 | Reinforced Concrete Pier Cap | LF | 611 | 602 | 9 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 4 | 0 | 4 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 5 | 0 | 5 | 0 | 0 |

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|------------------------------------|-------|-------|------|-----|-----|-----|
| (234) CONCRETE CAPS BENT 5 (PIER 1) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ... FIXED PER 2018 INSPECTION... BENT 6 (PIER 2) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ... BENT 7 (PIER 3) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER... BENT 8 (PIER 4) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ... CONCRETE CAPS BENT 1 SPALLS ON END OF CAP LEFT SIDE...FIXED PER 2018 INSPECTION BENT 2 SPALLS ON CAP LEFT SIDE...FIXED PER 2018 INSPECTION BENT 3 DELAM ON CAP LEFT SIDE FIXED PER 2018 INSPECTION BENT 4 SMALL SPALL ON RIGHT SIDE AND LEFT SIDE OF CAP... BENT 5 (PIER 1) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ...FIXED PER 2018 INSPECTION BENT 6 (PIER 2) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ... BENT 7 (PIER 3) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER... BENT 8 (PIER 4) CRACK IN WEB WALL FROM TOP TO BOTTOM SIZE 0.040 INCH NEAR CENTER ... BENT 9 SMALL CRACK IN OLD CAP... BENT 10 LARGE SPALL W/REBAR EXPOSED 1/8" SECT LOSS TO REBAR...FIXED PER 2018 INSPECTION BENT 11 CRACK IN TOP OF CAP AT PILES 4 AND 5... BENT 12 DELAM IN CAP AT PILE 3 AND ONE AT PILE 5, FIXED PER 2018 INSPECTION CRACK WITH EFFLORESCENCE AT PILE 6... BENT 13 CRACK IN TOP OF CAP AT PILES 5 AND 6... BENT 14 CRACK IN RIGHT SIDE OLD CAP W/ EFFLORESCENCE..... BENT 15 SMALL SPALL (1080-234) 07/22 small delams in various locations. (1130-234) 07/22 cracking with efflorescence on bent 4 center cap top right corner | | | | | | | |
| 300 | Strip Seal Expansion Joint | LF | 92 | 92 | 0 | 0 | 0 |
| 301 | Pourable Joint Seal | LF | 398.7 | 10.7 | 88 | 300 | 0 |
| 2320 | Seal Adhesion | LF | 300 | 0 | 0 | 300 | 0 |
| 2350 | Debris Impaction | LF | 88 | 0 | 88 | 0 | 0 |
| (2320-301) 07/22 joints need cleaned and resealed | | | | | | | |
| (2350-301) 07/22 debris impacting on expansion joints | | | | | | | |
| 331 | Reinforced Concrete Bridge Railing | LF | 1332 | 1332 | 0 | 0 | 0 |
| (331) TOP OF PARAPET WALL LEFT SIDE OVER CHANNEL HAS SOME SMALL SPALLS IN TOP OF CONCRETE WALL.... | | | | | | | |



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SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

Deck

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|---------------------------------|-------|-------|-------|------|-----|-----|
| 12 | Reinforced Concrete Deck | SF | 15845 | 14845 | 1000 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 400 | 0 | 400 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 600 | 0 | 600 | 0 | 0 |
| (12) LONG. & TRANV. DECK CRACKING HAVE BEEN SEALED IN 2003. | | | | | | | |
| (1120-12) Efflorescence on underside of deck at various locations all spans | | | | | | | |
| (1130-12) 07/22 cracking in deck various locations ... | | | | | | | |
| 38 | RC Slab | SF | 15609 | 15374 | 235 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | SF | 35 | 0 | 35 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 200 | 0 | 200 | 0 | 0 |
| (38) Efflorescence BOTTOM SIDE DECK MOST IN SPAN 4 ON 10 FT CENTERS.. | | | | | | | |
| END BRIDGE APPROACH SLAB 35 SQFT PATCH AREA IN TOP OF DECK ... | | | | | | | |

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Comment: LONG. & TRANV. DECK CRACKING HAVE BEEN SEALED IN 2003. Efflorescence BOTTOM SIDE DECK MOST IN SPAN 4 ON 10 FT CENTERS..END BRIDGE APPROACH SLAB 35 SQFT PATCH AREA IN TOP OF DECK ... 07/22 Little change per this inspection..



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SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

Superstructure

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|---|-------|-------|------|-------|-----|-----|
| 107 | Steel Open Girder/Beam | LF | 2014 | 2014 | 0 | 0 | 0 |
| 515 | Steel Protective Coating | SF | 13200 | 0 | 13200 | 0 | 0 |
| 3430 | Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings) | LF | 13200 | 0 | 13200 | 0 | 0 |
| (107) FRECKLED RUST IS FORMING IN VARIOUS LOCATIONS, PAINT SYSTEM IS BEGINING TO FAIL. | | | | | | | |
| 110 | Reinforced Concrete Open Girder/Beam | LF | 1320 | 1311 | 9 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 5 | 0 | 5 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 4 | 0 | 4 | 0 | 0 |
| (110) CONCRETE GIRDERS PHOTO TAKEN IN 2016... BENT 3 SPAN 2 SIDE DELAM IN END OF RCDG... BENT 4 CRACK IN END OF RCDG BOTTOM OF GIRDER.... BENT 9 CRACK IN END OF RCDG #4.... BENT 11 DELAM IN END OF RCDG #1.... BENT 12 CRACK IN END OF RCDG #4.... | | | | | | | |

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: 4in. GAS PIPE ATTACHED TO DIAPHRAMS IN SPANS #5,6 & 7; NOTED ON PLANS---- CONCRETE GIRDERS DEF. PHOTO TAKEN IN 2016...BENT 3 SPAN 2 SIDE DELAM IN END OF RCDG... FIXED PER 2018 INSPECTION..BENT 4 CRACK IN END OF RCDG BOTTOM OF GIRDER....BENT 9 CRACK IN END OF RCDG #4....BENT 11 DELAM IN END OF RCDG #1....BENT 12 CRACK IN END OF RCDG #4.... 07/22 Little change this inspection.



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Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

Substructure

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|--|---------------------------------|-------|-------|-----|-----|-----|-----|
| 205 | Reinforced Concrete Column | EA | 16 | 16 | 0 | 0 | 0 |
| 215 | Reinforced Concrete Abutment | LF | 72 | 72 | 0 | 0 | 0 |
| 227 | Reinforced Concrete Pile | EA | 108 | 108 | 0 | 0 | 0 |
| (227) bt. 11 pile 6 has a spall with rebar exposed near top of pile. REPAIRS MADE PER 2018 INSPECTION... | | | | | | | |
| 234 | Reinforced Concrete Pier Cap | LF | 611 | 602 | 9 | 0 | 0 |
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Comment: CONCRETE CAPS
 BENT 1 SPALLS ON END OF CAP LEFT SIDE...FIXED PER 2018 INSPECTION
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 BENT 14 CRACK IN RIGHT SIDE OLD CAP W/ EFFLORESCENCE.....
 BENT 15 SMALL SPALL
 07/22 Little change per this inspection...



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Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, **Inspection Date:** 07/20/2022

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Comment: 7/20/2022... Soundings taken per this inspection



Asset #01029(Routine, Underwater type 2)

SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

Culvert

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | | | | |
|----------|-------------|-------|-------|-----|-----|-----|-----|
| | | | | CS1 | CS2 | CS3 | CS4 |



07/22 elevation



07/22 alignment photo



CRACKING BOTTOM OF GIRDER SPAN 9



REPAIR WORK DONE BENT 10



SPAN 7 CRACK IN GIRDER



REPAIR WORK DONE BENT 11



REPAIR WORK DONE BENT 9



REPAIR WORK DONE BENT 5



CRACKING TOP OF CAP BENT 8



REPAIR WORK DONE BENT 10



Bent 4 cracks in RCDG and cap



07/22 typical deck photo



07/22 underside of main deck



07/22 underside of approach deck



07/22 typical substructure approach spans



07/22 typical substructure main spans



07/22 typical superstructure of approach deck



07/22 Typical superstructure of main deck



07/22 delams various locations.



07/22 cracking with efflorescence on bent 4 center cap top right corner



07/22 bent 8 cracking left side top of cap



07/22 debris impacting on expansion joints



07/22 joints need cleaned and resealed



07/22 joints need cleaned and resealed



07/22 joints need cleaned and resealed



Efflorescence on underside of deck at various locations all spans



07/22 cracking in deck



07/22 cracking in deck



07/22 hairline map like cracking in deck



07/22 cracking in deck



07/22 cracking in deck



07/22 cracking in deck



07/22 spalls in parapet wall

Maintenance Needs

Date Reported: 07/30/2012

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 9 - None

Status: Assigned

Component:

Deficiency Description

CONCRETE GIRDERS PHOTO TAKEN IN 2016...
BENT 3 SPAN 2 SIDE DELAM IN END OF RCDG... REPAIRS DONE PER.2018 INSPECTION
BENT 4 CRACK IN CAP AT PILE #6AND END OF RCDG #4
BENT 9 CRACK IN END OF RCDG #4....
BENT 11 DELAM IN END OF RCDG #1....
BENT 12 CRACK IN END OF RCDG #4....

Remarks









Asset #01029(Routine, Underwater type 2)

SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, **Inspection Date:** 07/20/2022

Maintenance Needs

Date Reported: 07/30/2012

Priority: D- Routine

Status: Assigned

Type of Work: (Inactive) (Inactive) 9 - None

Component:

Deficiency Description

CONCRETE PILE #6 @ BENT # 11
CONCRETE PILE IS SPALLED @ TOP OF PILE WITH REBAR EXPOSED.
NUMBERED LT. TO RT

Remarks



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Team Lead: John King, **Inspection Date:** 07/20/2022

Routine Maintenance

Check Box Maintenance Items

| Type of Maintenance | Is recommended? |
|--|-----------------|
| A-54 - Sealable Deck Cracks | |
| A-55 - Deck Washing Needed | |
| A-56 - Joint Cleaning/Flushing Needed | |
| A-57 - Beam End and Bearing Paint Needed | |
| A-58 - Cap Cleaning/Flushing Needed | |
| A-59 - Joint Repair Needed | |
| A-60 - Full Beam Painting Needed | |
| A-61 - Polymer Overlay Advised | |
| A-62 - Hydro and LMC Advised | |



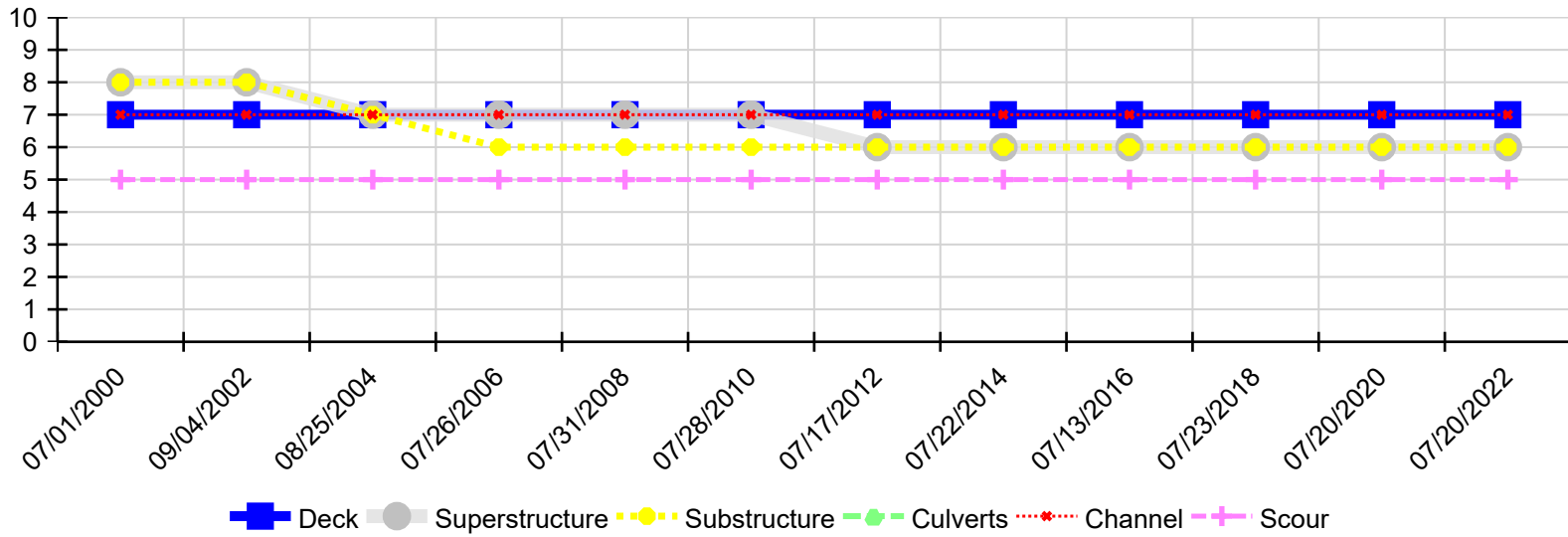
Asset #01029(Routine, Underwater type 2)

SH 27 - 04 - 4.40 over LITTLE MISSOURI RIVER

Location: 4.40 MI NE HEMPSTEAD CO

Team Lead: John King, Inspection Date: 07/20/2022

Condition History



| Inspection Date | Deck | Superstructure | Substructure | Culverts | Channel | Scour |
|-----------------|------|----------------|--------------|----------|---------|-------|
| 07/20/2022 | 7 | 6 | 6 | N | 7 | 5 |
| 07/20/2020 | 7 | 6 | 6 | N | 7 | 5 |
| 07/23/2018 | 7 | 6 | 6 | N | 7 | 5 |
| 07/13/2016 | 7 | 6 | 6 | N | 7 | 5 |
| 07/22/2014 | 7 | 6 | 6 | N | 7 | 5 |
| 07/17/2012 | 7 | 6 | 6 | N | 7 | 5 |
| 07/28/2010 | 7 | 7 | 6 | N | 7 | 5 |
| 07/31/2008 | 7 | 7 | 6 | N | 7 | 5 |
| 07/26/2006 | 7 | 7 | 6 | N | 7 | 5 |
| 08/25/2004 | 7 | 7 | 7 | N | 7 | 5 |
| 09/04/2002 | 7 | 8 | 8 | N | 7 | 5 |
| 07/01/2000 | 7 | 8 | 8 | N | 7 | 5 |