

SCDOT BRIDGE INSPECTION FORM

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| (008) BRIDGE ID: 3210002000600 | (005) ROUTE: LEXINGTON I-20 |
| (420) ASSET NO: 4367 | (006) CROSSING: STOOP CREEK |
| (419) RAMP NO: | (009) LOCATION: 2 MI SE OF SEVEN OAKS |
| (026) FUNCTIONAL CLASS: 11 | (016) LAT: 34d 2m 6s (017) LON: 81d 6m 56s |

GENERAL BRIDGE DATA

| | EXISTING | REVISED | | EXISTING | REVISED |
|-----------------------|----------|---------|-------------------------------|-------------|-------------|
| (027) Year Built | 1964 | | (042) Type Serv; On(A) Und(B) | 1 5 | |
| (106) Year Recon | 1978 | | (028) Lanes; On(A) Und(B) | 6 0 | 10 |
| (031) Design Load | 4 | | (107) Deck Struct | N | |
| (36A) Railings | 0 | | (108) Wear Surf/Membrane/Prot | N N N | |
| (36B) Transitions | 0 | | | MAT-SUP-SUB | MAT-SUP-SUB |
| (36C) Appr Guard | 1 | | (043) Main Original (A) | 1 19 1 | |
| (36D) Appr Guard End | 1 | | Main Reconst (B) | | |
| (037) History | 5 | | (044) Appr Orginal (A) | 0 00 0 | |
| (319) Last Paint Date | | | Appr Reconst (B) | | |

GEOMETRIC DATA

| | EXISTING | REVISED | | EXISTING | REVISED |
|-------------------------|----------|---------|------------------------------|----------|---------|
| | | | | FT | IN |
| (032) Appr Rdway | 136 | | (053) Vert Clr Above Deck | 99 | 99 |
| (033) Bridge Median | 3 | | (54A) Vert Clear Ref | N | |
| (034) Skew | 12 | | (54B) Vert Clear Right | 0 0 | 0 0 |
| (035) Flared | 0 | | (54C) Vert Clear Left | 0 0 | 0 0 |
| (045) # Main Spans | 3 | | (10A) Great Min Clr Over/Und | 99 | 99 |
| (046) # Appr Spans | 0 | | (10B) Great Min Right | 99 | 99 |
| (048) Max Span Lgth | 10 | | (10C) Great Min Left | 99 | 99 |
| (308) Appr Span Lgth | 0 | | | | |
| (049) Struct Length | 34 | | (55A) Lat Clear Ref | N | |
| (47A) Horz Clear Right | 64 | | (55B) Lat Clear Right | 0 | |
| (47B) Horz Clear Left | 72 | | (056) Lat Clear Left | 0 | |
| (47UA) Horz Clear Right | 0 | 0 | | | |
| (47UB) Horz Clear Left | 0 | 0 | (038) Navigation Cont | 0 | |
| (50B) Sidewalk Right | 0 | | (039) Nav Vert Clear | 0 | |
| (50A) Sidewalk Left | 0 | | (040) Nav Horz Clear | 0 | |
| (051) Curb to Curb | 136 | 0 | (111) Nav Pier Port | | |
| (052) Deck Out-Out | 150 | 0 | | | |

RATINGS DATA

| | EXISTING | REVISED | | EXISTING | REVISED |
|----------------------|----------|---------|--------------------------------|---------------|---------------|
| (58) Deck | N | | (041) Traffic Status | A | |
| (59) Super Str | N | | (063) Rating Method | 8 | |
| (60) Sub Str | N | | (064) Operating Method | 3.99 | |
| (061) Channel | 6 | | (065) Rating Method | 8 | |
| (062) Culv Ret | 7 | | (066) Inventory Rating | 3.08 | |
| (071) Water Adeq | 6 | | (411) Date Rated | 03/2020 | |
| (072) Appr Rdway | 8 | | (418) Conditions During Rating | 7 | |
| (113) Scour Critical | 8 | | | Freq Mth/Year | Freq Mth/Year |
| (067) Structure | 7 | | (091, 090) Routine Insp | 24 11/2019 | 24 11/2021 |
| (068) Deck Geom | 9 | | (92A, 93A) Fracture Critical | N | |
| (069) Underclear | N | | (92B, 93B) Underwater Insp | N | |
| (070) Bridge Post | 5 | | (92C, 93C) Special Insp | N | |

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| Inspection Leader: ERIC BEACH, COLLINS ENG | Reviewed By: KEVIN VELLO, COLLINS ENG |
| Date: | Date: 2/16/2022 |

Bridge Element Group Textual Data

Bridge ID: 32-1-00020-0-06-00

16 Feb 2022

Abutments and/or Headwalls:

No noteworthy defects in headwalls.

Bents and/or Piers:

10'x10' Triple Barrel Concrete Culvert

Hairline cracks, several with efflorescence and rust bleeding through and minor spalls, most have been patched in walls of culvert. Minor abrasions on walls at waterline. Water seeping through construction joints. Failed patch at outlet between barrels 1 and 2, 17" x 6" x 1". Barrel 1 has a 5" hole in outer wall and a 6" hole in inner wall, approximately 60' from inlet, have been patched.

Bearings:

N/A

Girders/Floor Beams/Stringers and/or Beams:

N/A

Truss Members:

N/A

Expansion Joints:

N/A

Decks and/or Slabs:

Asphalt roadway.

Curbs:

N/A

Bridge Railing/Parapets and/or Median Barriers:

Bridge and approach rail in place on I-20. No bridge or approach rail on frontage road.

Paint Systems:

N/A

Waterway and Scour:

Minor scour at inlet and outlet. Some debris/vegetation in the inlet.

Fender System:

N/A

Roadway Alignment:

No reduction in speed on I-20 necessary.

Traffic Signs:

1ea bridge end sign in place on I-20. 2ea bridge end signs on 1ea post on frontage road.

Encroachments:

N/A

Miscellaneous Notes:

BRIDGE ORIENTATION: Labeling diagram orientation is the same direction as the historic orientation of the bridge W-E

Bridge Asset ID is located on the NW corner of the bridge.

Bridge Inspected on 11/11/2021. Sunny 70 degrees.

BITL: Eric Beach, Collins Engineers, Inc.

Assistant(s): Jon Little, Mikayla Young, Douglas McLendon P.E.

Headwall to headwall is 260'.

Bridge Element Level Data

16 Feb 2022

| <u>Element No</u> | <u>Element Name/Description</u> | <u>Units</u> | <u>Env</u> | <u>Defect</u> | <u>Quantity in Each Condition State</u> | | | | <u>Total Qty</u> |
|-------------------|---------------------------------|--------------|------------|---------------|---|----------|----------|----------|------------------|
| | | | | | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | |
| 241 | Reinforced Concrete Culvert | feet | 3 | Yes | | | | | |
| 241 | Delamination/Spall/Patched Area | feet | 3 | 1080 | 0 | 5 | 1 | 0 | 6 |
| 241 | Efflorescence/Rust Staining | feet | 3 | 1120 | 0 | 34 | 0 | 0 | 34 |
| 241 | Cracking (RC and Other) | feet | 3 | 1130 | 32 | 0 | 0 | 0 | 32 |
| 241 | Abrasion/Wear (PSC/RC) | feet | 3 | 1190 | 0 | 705 | 0 | 0 | 705 |
| 241 | Scour | feet | 3 | 6000 | 0 | 3 | 0 | 0 | 3 |
| 241 | Reinforced Concrete Culvert | feet | 3 | Yes | 32 | 747 | 1 | 0 | 780 |
| 330 | Metal Bridge Railing | feet | 1 | No | 68 | 0 | 0 | 0 | 68 |