

#### BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: KNOX CITY: KNOXVILLE LOCATION: 47-03780-00.31-CO. SEQ.: 1 SPEC. CASE: 0



#### CROSSING: SOUTHERN RAILWAY FED BRIDGE NO.: 47M37800001

Γ

| REVISED: | 03/19/2020 |
|----------|------------|
|          |            |

| FACILITY CARRIED:  | FAU 3780 730617V | NUMBER OF MAIN SPANS:  | 3                  |
|--|------------------|--|--------------------|
| HIGHWAY SYSTEM: 18-STP URBAN   | , NON-STATE SYS. | NUMBER OF APPROACH SPANS:  | 0                  |
| BRIDGE WIDTH (CURB TO CURB):   | 39 FT 8 IN       | BRIDGE LENGTH (FT):  | 93                 |
| BRIDGE WIDTH (OUT TO OUT):   | 52 FT 5 IN       | MAXIMUM SPAN LENGTH (FT):  | 46                 |
| APPROACH ROADWAY (W/SHOULDERS):  | 39 FT 0 IN       | SKEW ANGLE (DEGREES):  | 90                 |
| MAINTAINED BY:<br>MAIN SPAN MATERIAL:<br>MAIN SPAN DESIGN TYPE:<br>APPROACH SPAN MATERIAL:<br>APPROACH SPAN DESIGN TYPE: | OTH              | CIPAL HIGHWAY AGENCY<br>CONCRETE<br>TEE BEAM<br>ER OR NOT APPLICABLE<br>ER OR NOT APPLICABLE |                    |
| INSPECTION DATE: 03/18/202<br>PPRM PIN NUMBER:<br>H TRUCK RATING @ INV.: 15 TOM  | S'               | ENERAL CONDITION:<br>TRUCTURALLY DEFICIENT:<br>UFFICIENCY RATING:                            | FAIR<br>NO<br>49.7 |

| No. | RECOMMENDATIONS                           | REPAIR<br>DATE | REPAIRED<br>BY |
|-----|---|----------------|----------------|
| 1.  | PATCH COLUMN NO. A BENT NO. 1             |                |                |
| 2.  | REPAIR BRIDGERAIL AT APPROACH 2 (LEFT)    |                |                |
| 3.  | REPAIR CONC. BREASTWALL AT ABUTMENT NO. 1 |                |                |

| SUGGESTED ROUTINE MAINTENANCE AND COMMENTS |
|--|
| REPAIR DIAPHRAGMS IN SPAN NO. 3            |
| CLEAN AND PAINT BEARING AT BENT NO. 2      |
| REPAIR SIDEWALKS @ APPROACHES              |
| APPROACH GUARDRAILS ARE SUB-STANDARD       |
| BRIDGERAILS ARE SUBSTANDARD                |

#### GENERAL COMMENTS:

STATE OF TENNESSEE

# Bridge Condition Coding Form

Revised 03/19/2020

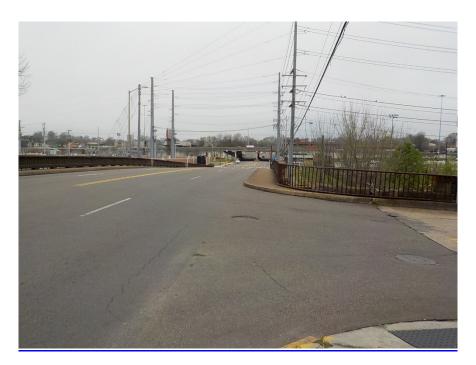
|       | STATE OF TENNESS      |                    | 00                |             | 8-0          | County:  | 47           |
|-------|-----------------------|--------------------|-------------------|-------------|--------------|--|--------------|
|       | Bridge Number:        |                    | 47M378000011      |             |              | Route:   | 03780        |
|       | cludes Item 5A)       |                    | 4/1013/8000011    |             |              | Special Case:  | 0            |
| Featu | ure Intersected:      | SOU                | UTHERN RAILWA     | ٩Y          |              | <b>County Sequence:</b>                                | 1            |
| Fw    | aluation Status:      | OTHER ITEN         | M(S) HAVE BEEN    | СНАГ        | NCED         | Log Mile:  | 0.31         |
|       |                       |                    | HICH HAVE C       |             |              | 0  |              |
|       | DESCRIPTION           |                    | VALUE             | <b>HAIN</b> |              | TION CODING GUIDELINE                                  | 2            |
| 90    | LAST INSPECTI         |                    | 03/18/2020        | ٦           |              | r Coding Items 58, 59, 60 and 62)                      |              |
| 90    | EARLIEST DATI         |                    |                   | 4           |              |  |              |
|       | NEXT                  |                    | 01/17/2022        |             |              |  |              |
|       | REGULAR INSP          | ECTION             | /_/               | -           |              | APPLICABLE   |              |
| 10    | MINIMUM V.C.          | OVER               | 99 FT. 99         | IN.         |              | ELLENT CONDITION<br>Y GOOD CONDITION - NO              |              |
| 10    | DECK<br>(ROADWAY + SH | HOULDERS) —        | FT                | IN.         |              | BLEMS NOTED.   |              |
| 520   | MINIMUM V.C.          |                    | 99 <b>FT.</b> 99  | IN.         |              | D CONDITION - SOME MINOI                               |              |
|       | (EXCLUDES SH          | OULDERS)           | FT                | IN.         |              | SFACTORY CONDITION - MIN<br>ERIORATION OF STRUCTURA    |              |
| 36    | TRAFFIC SAFE          | <b>FY FEATURES</b> |                   |             |              | MENTS.   |              |
|       | Br. Rail Trans.       |                    | erminal SPEED L   | IMIT        |              | CONDITION - ALL PRIMARY                                |              |
|       | 0 N                   | Ν                  | N 30              |             |              | UCTURAL ELEMENTS ARE SO<br>HAVE MINOR SECTION LOSS     |              |
|       |                       | <u> </u>           |                   |             |              | CKING, SPALLING OR SCOUP                               |              |
| 41    | STRC OPEN/CL          | OSED/POSTED        | Α                 |             | <b>4 POO</b> | R CONDITION - ADVANCED S                               | ECTION       |
|       | A K                   | Р                  |                   |             | LOSS         | S, DETERIORATION, SPALLIN                              |              |
| 58    | DECK                  |                    | 5                 |             | SCO          |  |              |
| 20    | DLCK                  |                    | C                 |             |              | OUS CONDITION - LOSS OF S<br>ERIORATION, SPALLING OR S |              |
| 59    | SUPERSTRUCT           | URE                | 5                 |             | SERI         | OUSLY AFFECTED PRIMARY                                 |              |
|       |                       |                    |                   |             |              | UCTURAL COMPONENTS. LO<br>JURES ARE POSSIBLE. FATIG    |              |
| 60    | SUBSTRUCTUR           | E                  | 5                 |             | IN ST        | TEEL OR SHEAR CRACKS IN (                              |              |
|       |                       |                    |                   |             | MAY          | BE PRESENT.  |              |
| 61    | CHANL/CHANL           | PROTECTION         | Ν                 |             | 2 CRII       | TICAL CONDITION - ADVANC                               | ED           |
|       |                       |                    |                   |             |              | ERIORATION OF PRIMARY S                                |              |
| 62    | CULVERT AND           | RETAIN WALL        | Ν                 |             |              | MENTS. FATIGUE CRACKS IN<br>AR CRACKS IN CONCRETE M    |              |
|       |                       |                    |                   |             |              | SENT OR SCOUR MAY HAVE                                 |              |
| 71    | WATERWAY AD           | EOUACY             | N                 |             |              | STRUCTURE SUPPORT. UNLE<br>SELY MONITORED IT MAY B     |              |
|       |                       |                    |                   |             | NECI         | ESSARY TO CLOSE THE BRID                               |              |
| 72    | APPROACH RD           | WY ALIGNMENT       | 8                 |             | COR          | RECTIVE ACTION IS TAKEN.                               |              |
|       |                       |                    |                   |             |              | MINENT'' FAILURE CONDITIC                              |              |
| 501   |                       |                    |                   |             |              | ERIORATION OR SECTION LO<br>SENT IN CRITICAL STRUCTU   |              |
| 521   | OVERALL CON           | DITION             | FAIR              |             |              | IPONENTS OR OBVIOUS VER                                |              |
|       |                       |                    |                   | _           |              | IZONTAL MOVEMENT AFFE                                  |              |
| 16    | LATITUDE              | 17 LONGITUI        | DE                |             |              | SED TO TRAFFIC BUT CORRE                               |              |
|       | N 35° 57.7320′        | W 83 ° 59.109      |                   |             |              | ION MAY PUT IT BACK IN LIG                             |              |
|       |                       |                    | _                 |             |              | ED CONDITION - OUT OF SEE                              | RVICE AND    |
|       |                       |                    |                   | -           | BEY          | OND CORREC<br>PRODUCEI                                 | PURSUANT T   |
| T     | TEAM LEADER SIG       | GNATURE            | <b>REVIEW DAT</b> | Έ           |              |  | CORDS REQUES |

### Bridge ID#: 47M37800001

Date: 03/18/2020



**APPROACH FORWARD ON LOG** 



APPROACH BACK ON LOG - RAIL REPAIRED 2 LEFT

### Bridge ID#: 47M37800001

Date: 03/18/2020



**ELEVATION - RIGHT** 



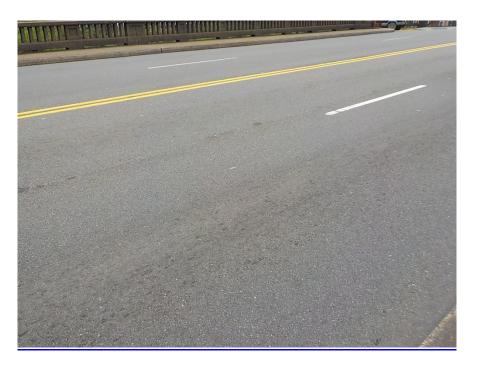
**ELEVATION - LEFT** 

### Bridge ID#: 47M37800001

Date: 03/18/2020



**VIEW UNDERNEATH** 



VIEW TOP DECK

### Bridge ID#: 47M37800001

Date: 03/18/2020



**ABUTMENT 1 EXP REBAR TYPICAL** 



**OUTSIDE BEAM CRACKING TYPICAL** 

### Bridge ID#: 47M37800001

Date: 03/18/2020



**COLUMN A BENT 1 EXP REBAR TYPICAL** 



**BENT CAP 1 EXP REBAR TYPICAL** 

#### Bridge ID#: 47M37800001

Date: 03/18/2020



**DIAPHRAM BENT 2 EXP REBAR TYPICAL** 



ABUTMENT 1 BREASTWALL CRACK

## BRIDGE INSPECTION REPORT

| FORM BIR 3.0 FIELD REPORT NO. 20 DATE 03-18-20   Rev. 9-22-98 PREVIOUS REPORT NO. 19 DATE 03-27-18   DT-0069 PLANS YES [X] NO []                               |         |
|--|---------|
| BRIDGE NO. 47M37800001<br>ELEVEN DIGIT NO. BRIDGE LOCATION NO. 47 - 3780 - 00.31<br>CO. ROUTE L.M.   |         |
| SEVENTEENTH ST.OVERNORFOLK & SOUTHERN RAILWAYSEVENTEENTH STREET VIADUCTROAD NAMEFEATURE INTERSECTEDSTRUCTURE NAME (IF NAMED)                                   | )       |
| YEAR CONSTRUCTED 1937 COUNTY KNOX MAINTENANCE DISTRICT NO. 18<br>(ESTIMATED OR ACTUAL)<br>[] [X]<br>YEAR WIDENED N/A YEAR REHABILITATED N/A                    |         |
| YEAR WIDENED N/AYEAR REHABILITATED N/A<br>ESTIMATED OR ACTUAL ESTIMATED OR ACTUAL<br>[] [] [] [] []<br>FEATURES  | <br>[j  |
| WEARING SURFACE CONCRETE [] TIMBER [] ASPHALT [x] (DEPTH = 2_ in.)   FLARED WIDTH YES [] NO [X]  | )       |
| NAVIGATIONAL CONTROL YES [] NO [X] INSPECTORS   MEDIAN WIDTH OPEN [] NONE [X] CLOSED []   BRIDGE SKEW 90 ° LT [] RT [] 1. RADER-TL   2. MUSTAIN                |         |
| STRUCTURE TYPE CTB NO. SPANS 3_   3. HAAS   Main Span Main Span   4. SAUTNER   |         |
| 7  |         |
| MAXIMUM SPAN LENGTH 46.0' TOTAL LENGTH 93.0' 8.   (**.*ft.) (**.*ft.) 9.   WIDTHS (*.*ft.) 9.   DECK OUTT-TO-OUT 52.2' MIN                                     |         |
| Deck OU1-10-001 32.3 MIN. VERTICAL OVER DEckN/A   ROADWAY CURB/CURB 39.8' MIN. VERTICAL UNDER CL21'-02"   SIDEWALK 5.0'RT 5.0'LT MIN. LAT. UNDER CLEAR09.4'RT. |         |
| *APPROACH ROADWAY 39.0'LT.<br>APP. SHDR0.0'RT_0.0'LT(< 25 ft.)   |         |
| *DOES NOT INCLUDE SHOULDERS FRACTURE CRITICAL NBIS BRIDGE<br>DETAILS: YES [] NO [X] LENGTH N/A   | <u></u> |
| UNDERWATER INSPECTION IF YES, INCLUDE BIR 3.9 (ft.)(in.)   INSPECTION PERFORMED BY: DOT FIELD TEAM ] DATE: CHANGE IN STRUCTURAL CONDITION:                     |         |
| CONTRACT DIVERS [ ] DATE: YES [ ] NO [X]<br>NONE REQUIRED [X] MAJOR REPAIRS MADE: YES [ ] NO [X]<br>COMMENTS:  | -       |
| BRIDGE RATING [ ] [X] [ ]  |         |
| SUPERVISING BRIDGE INSPECTOR GOOD FAIR POOR CRITICAL   | L       |

| FORM BI<br>Rev. 9-<br>DT-0080 | 22-98                         | BRIDGE I                        | OCATI      | ON N       |            |            |        |            | - <u>00.</u><br>log m |                           | DATE:_   | 03-18-      | 20         |
|-------------------------------|-------------------------------|---------------------------------|------------|------------|------------|------------|--------|------------|-----------------------|---------------------------|--|-------------|------------|
| PERFORM                       | ANCE EVA                      | LUATION                         |            |            |            |            |        |            |                       |                           |  |             |            |
| Time                          | of day i                      | nspected                        | l_10:      | 00 A       | M          | Weat       | the    | r co       | nditio                | ns <u>55</u>              | , CLOUD  | Y           |            |
| Vehic                         | les obse                      | erved                           | ALL        | TYP        | ES         |            |        |            |                       |                           |  |             |            |
|                               |                               |                                 |            |            |            |            |        |            |                       |                           |  |             |            |
|                               | Horiz.                        | <b>IAVIOR</b><br>are<br>& Vert. | Defl.      | -[]        | [X]        |            |        |            |                       | OMMEN                     |  |             |            |
| Su                            | perstruc<br>Horiz.<br>Vibrati | cture<br>& Vert.<br>.on         | Defl.      | -[]<br>-[] | [X]<br>[X] |            |        |            |                       |                           |  |             |            |
| APPROAC<br>Al<br>Pa           |                               | <b>G </b> F<br><b>G </b> F      | P C<br>P C |            |            |            |        |            |                       |                           |  |             |            |
|                               |                               | <b>FEATURE</b>                  | -          | <b>F</b> P |            |            |        |            | STANDA<br>1 SCAL      |                           | KEN SECT   | tonn a      | ν <b>T</b> |
| DI                            | 10901011                      | 9                               |            |            | C          | L          | -      | [ 11       | APPR                  |                           | 2 LEFT;  |             |            |
| Tr                            | ansitior                      | ns<br>Terminal                  | G          | F P        | С          | [          | ]      | [          | ] N/A                 |                           |  |             |            |
| Gu                            | ardrail                       | Tormino                         | G .        | F P        | C          | [<br>r     | ]      | [ X ]      | ] <u>SCAL</u>         | E                         |  |             |            |
| Gu                            | alurall                       | Termina                         | G          | с Р        | C          | L          | 1      | L          | ] N/A                 |                           |  |             |            |
| SIGNING                       |                               |                                 |            |            |            | VI         | ES     | NO         | NEEDE                 | Л                         |  |             |            |
| Ve                            | rtical (                      | rd<br>Clearance<br>  One La     | e (< 1     | 4'-6       | ") –       | – [<br>– [ | ]<br>] | [X]<br>[X] | [ ]<br>[ ]            | WEI(<br>GR(<br>2 2<br>3 ( | GHT LIMI<br>YES [ ]<br>OSS<br>AXLE<br>DR MORE<br>LES | X] ON<br>TT |            |
| Ot                            | her Sigr                      | ns or Pla                       | iques      |            |            |            |        |            |                       |                           |  |             |            |
| Co                            | mments F                      | Regarding<br>With Sig           | Any        |            |            |            |        |            |                       |                           |  |             |            |

| FORM BIR 3.2<br>Rev. 9-22-98 BRI<br>DT-0081<br>DECK | DGE           | LO            | CAT    | ION    | NO. <u>47</u> - <u>3780</u> - <u>00.31</u> DATE: <u>03-18-20</u><br>CO. ROUTE LOG MILE<br>COMMENTS |
|---|---------------|---------------|--------|--------|--|
| WEARING SURFACE                                     | G             | F             | P (    | С      | NEW OVERLAY 2018   |
| DECK - STRUCTURAL<br>CONDITION                      | G             | <u>F</u>      | P      | С      | HAIRCRACKS, DISCOLORATION  |
| CURBS   | G             | F             | Ρ      | С      | N/A  |
| MEDIAN  | G             | F             | P      | C      | N/A  |
| SIDEWALKS   | G             | F             | P      | C      | SCALE  |
| PARAPET   | G             | F             | P      | C<br>C | N/A  |
| RAILING<br>PAINT                                    | G<br>G        | <u>F</u><br>F | P<br>P | C      | SCALE  |
| DRAINS  | G             | г<br>F        | P<br>P | C      | N/A  |
| LIGHTING STD'S                                      | G             | г<br>F        | P      | C      | N/A  |
| UTILITIES   |               | F             | P      | C      |  |
| JOINT LEAKAGE                                       | <u>G</u><br>G | F             | P      | C      | WATER SEEPAGE ALONG BENTS  |
| EXPANSION JOINTS                                    | G             | F             | -<br>P | C      | N/A  |
|   | -             | _             | _      |        |  |
|   |               |               |        |        |  |
| SUPERSTRUCTURE                                      |               |               |        |        | COMMENTS   |
| DEADING DEVICES                                     | C             | F             | Б      | C      | LICUT CODDOCION & DOLLEDC  |
| BEARING DEVICES                                     | G             | F             | Ρ      | С      | LIGHT CORROSION @ ROLLERS  |
| GIRDERS OR BEAMS                                    | G             | F             | P      | С      | SCALING, HAIRCRACKS, DISCOLORATION AT ENDS_  |
| GIRDERS OR DEAMS                                    | G             | <u>r</u>      | Г      | C      | SCALING, MAINCRACKS, DISCOLONATION AT ENDS_  |
| FLOOR BEAMS   | G             | F             | Ρ      | С      | <br>N/A  |
|   | -             |               |        |        |  |
| STRINGERS   | G             | F             | Ρ      | С      | N/A  |
| DIAPHRAGMS  | G             | F             | Ρ      | С      | SCALING @ BENT 2_  |
| BRACING   | G             | F             | Ρ      | С      | N/A  |
| TRUSSES - GENERAL                                   | G             | F             | Ρ      | С      | N/A  |
|   |               |               |        |        |  |
| - PORTALS   | G             | F             | Ρ      | С      | N/A  |
| - BRACING   | G             | F             | Ρ      | С      | N/A  |
| PAINT   | G             | F             | Ρ      | С      | NONE   |
| ALIGNMENT OF  | G             | F             | Ρ      | С      |  |
| MEMBERS   |               |               |        |        |  |
|   |               |               |        |        |  |
| TEXTURE COAT  |               |               |        |        |  |
| CONDITION RATING                                    | G             | F             | Ρ      | С      | NEEDS SPOT PAINTING? YES [ ] NO [ ]  |
| OVERALL APPEARANCE                                  | G             | F             | Ρ      | С      | NEEDS REPAINTING? YES [ ] NO [ ]   |
| STAINING  | G             | F             | Ρ      | С      | COMMENTS   |
| FADING  | G             | F             | Ρ      | С      |  |
| SCALING   | G             | F             | Ρ      | С      |  |
|   |               |               |        |        |  |

| FORM BIR 3.3                       |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
|------------------------------------|---------------|---------------------------|-----|-----|--------|----------------|-------|------|--------------------|------------|--------|-----------|---------|
|                                    | BRID          | GE                        | LOC | ATI | ON NO. |                |       |      |                    |            | DATE:  | 03-18-    | -20     |
| DT-0082                            |               |                           |     |     |        | CO.            | ROUI  | Έ    | LOG MI             | LE         |        |           |         |
| SUBSTRUCTURE                       |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
| ABUTMENTS                          |               |                           |     |     |        |                |       |      | COMME              | NTS        |        |           |         |
| CAPS                               | G             | F                         | Ρ   | С   | N/A    |                |       |      |                    |            |        |           |         |
| BREASTWALL                         | G             | F                         | Ρ   | С   | SCALE  |                |       |      | IP @ NC<br>IRACK U |            |        | EXPOSI    | ED      |
| WINGS                              | G             | ਸ                         | P   | С   | BREAK  |                |       |      |                    | INDER E    | CAM I_ |           |         |
| BACKWALL                           | G             | <b>F</b><br><b>F</b><br>F | P   | -   | HAIRC  |                |       |      |                    | <br>[ @ ₩1 |        |           |         |
| PLUMB                              |               | <u>-</u>                  | P   | C   | IIAIRC | MACIND         |       |      |                    |            |        |           |         |
| FOOTING                            | <u>G</u><br>G | F                         | P   | C   | N/V    |                |       |      |                    |            |        |           |         |
|                                    | G             | г<br>F                    |     |     |        |                |       |      |                    |            |        |           |         |
| PILES                              | -             |                           | P   | C   | N/V    |                |       |      |                    |            |        |           |         |
| EMBANKMENT                         | G             | F                         | P   | C   | N/A    |                |       |      |                    |            |        |           |         |
| BEARING SURFACE                    |               | F                         | P   | C   |        |                |       |      |                    |            |        |           |         |
| SLOPE PAVING                       | G             | F                         | P   | С   | N/A    |                |       |      |                    |            |        |           |         |
| RIP RAP                            | G             | F                         | Ρ   | С   | N/A    |                |       |      |                    |            |        |           |         |
| PIERS                              |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
| CAPS                               | G             | F                         | Ρ   | С   | N/A    |                |       |      |                    |            |        |           |         |
| COLUMNS                            | G             | F                         | Ρ   | С   | N/A    |                |       |      |                    |            |        |           |         |
| PLUMB                              | G             | F                         | P   | С   | N/A_   |                |       |      |                    |            |        |           |         |
| FOOTINGS                           | G             | F                         | P   |     | N/A    |                |       |      |                    |            |        |           |         |
| PILES                              | G             | F                         | P   | C   | N/A    |                |       |      |                    |            |        |           |         |
| BEARING SURFACE                    |               | F                         | P   | C   | N/A_   |                |       |      |                    |            |        |           |         |
| BENTS                              |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
| CAPS                               | G             | F                         | Ρ   | С   | SCALI  | NG             |       |      |                    |            |        |           |         |
| COLUMNS                            | G             | F                         | P   | С   | 1" DE  | EP SC          | ALE @ | 0 #1 | ., W/RE            | BAR EX     | POSED  |           | <u></u> |
| PLUMB                              | G             | F                         | P   | С   |        |                |       |      |                    |            |        |           |         |
| FOOTINGS                           | <b>G</b><br>G | F                         | P   | C   | N/A    |                |       |      |                    |            |        |           |         |
| PILES                              | G             | F                         | P   |     | N/A    |                |       |      |                    |            |        |           |         |
| BEARING SURFACE                    |               | F                         | P   | C   | IN/A   |                |       |      |                    |            |        |           |         |
| BEAKING SURFACE                    | <u>G</u>      | г                         | P   | C   |        |                |       |      |                    |            |        |           |         |
| PILES NEED REPL<br>PILES TO BE REP |               |                           |     | -   |        | S [ ]<br>ILE B | BENT  | PIL  | E BENI             | ' PILE     | BENT   | PILE      | BENT    |
|                                    |               |                           |     |     |        |                |       |      |                    | <u> </u>   |        |           |         |
|                                    |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
|                                    |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
|                                    |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
|                                    |               |                           |     |     |        |                |       |      |                    |            |        |           |         |
|                                    |               |                           |     |     |        |                |       |      |                    |            | PRODUC | TED DUDGU | ANT TO  |

### INSPECTION TEAM'S SUMMARY

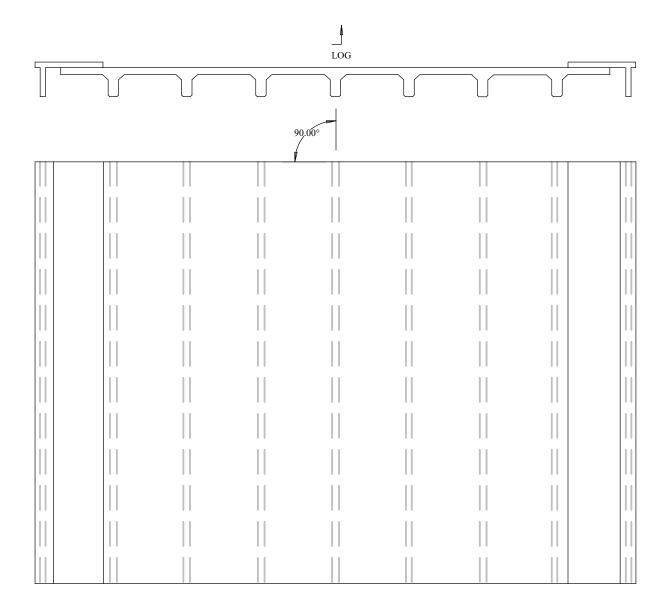
Federal ID # 47M37800001 Bridge # 47-03780-00.31

Wednesday, March 18, 2020

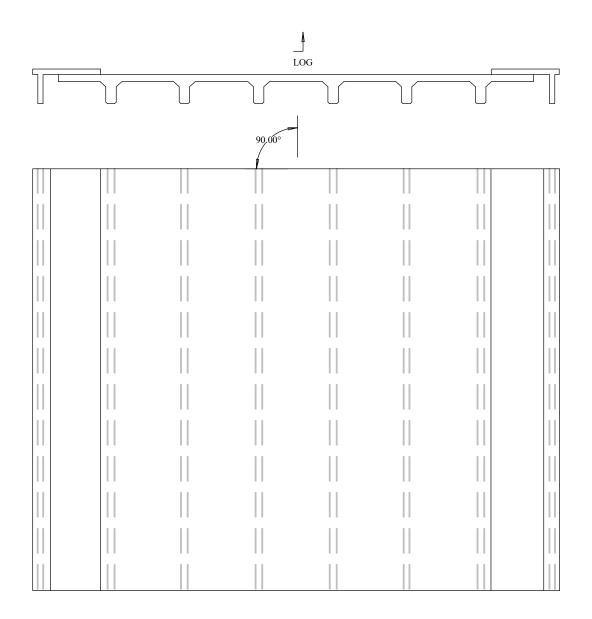
The subject bridge was inspected on the above date and found to be in generally fair condition. Roadway alignment is good. Asphalt is continuous across the approaches and deck and is rated good. Sidewalks are in fair condition with scale and cracking. There is a portion of bridgerail missing at approach 2 left with a metal barrier installed in its place. Joints are in fair condition with deterioration of the sealer material. No traffic safety features meet code. There is no signing.

The bottom of the deck, as well as the CTB's and diaphragms, is in fair condition with scale, haircracks and soot stains. Roller bearings are in fair condition with light corrosion. Abutment breastwalls are in fair condition from spalling with exposed rebar, delamination and a 1" open vertical crack under beam I. Wings are rated fair with breakouts and haircracks. Bent caps and columns are in fair condition with heavy spalling up to 1" deep with exposed rebar at column A bent 1.

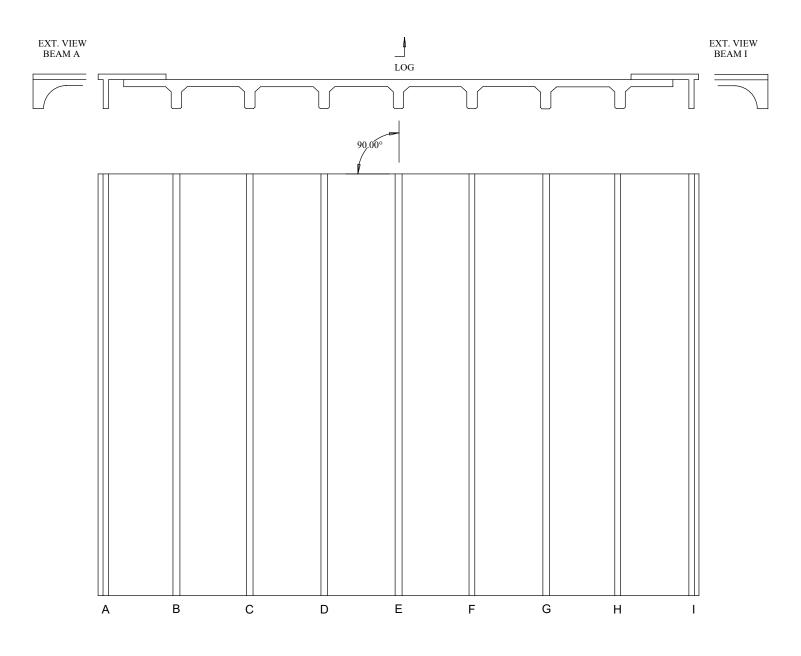
BR TECH SENIOR



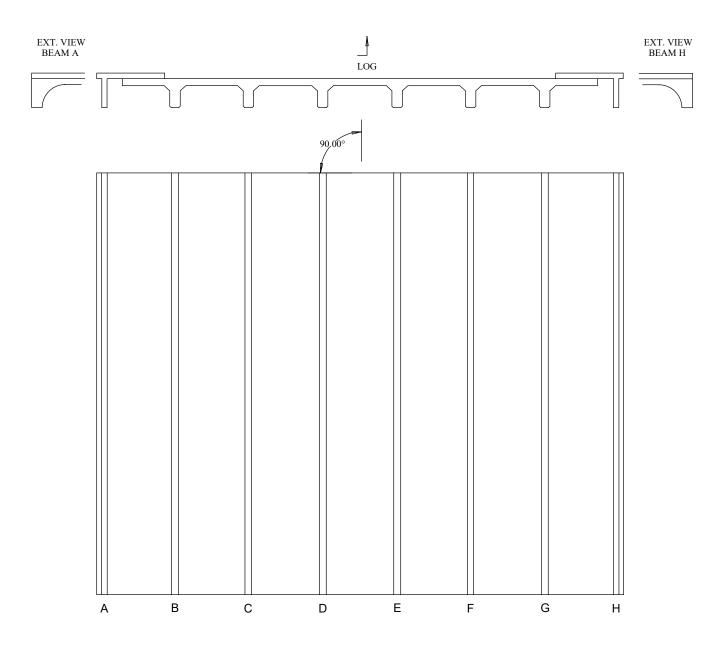
| BRIDGE NO. 47-3780-00.31 |   |             | 03-18-20 BR | TOP DECK SPAN 1&3 |
|--------------------------|---|-------------|-------------|-------------------|
| WEARING SURFACE          | G |             |             |                   |
|                          |   |             |             |                   |
|                          | Б |             |             |                   |
| BRIDGE RAIL              | Г | LIGHT SCALE |             |                   |
|                          |   |             |             |                   |
| SIDEWALK                 | F | LIGHT SCALE |             |                   |
|                          |   |             |             |                   |
|                          |   |             |             |                   |



| BRIDGE NO. 47-3780- | 00 | .31         | 03-18-20 BR | TOP DECK SPAN 2 |
|---------------------|----|-------------|-------------|-----------------|
| WEARING SURFACE     | G  |             |             |                 |
|                     |    |             |             |                 |
|                     |    |             |             |                 |
| BRIDGE RAIL         | F  | LIGHT SCALE |             |                 |
|                     |    |             |             |                 |
|                     |    |             |             |                 |
| SIDEWALK            | F  | LIGHT SCALE |             |                 |
|                     |    |             |             |                 |
|                     |    |             |             |                 |



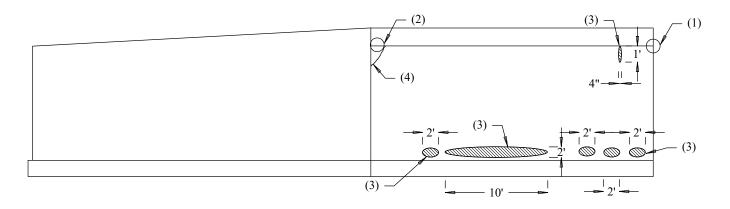
| BRIDGE NO. 47-3 | 378 | 80-00.31              | 03-18-20 GM             | BOTTOM DECK SPAN 1 & 3 |
|-----------------|-----|-----------------------|-------------------------|------------------------|
| BOTTOM DECK     | F   | HAIRCRACKS/STAINING   |                         |                        |
|                 |     |                       |                         |                        |
|                 |     |                       |                         |                        |
| BEAMS           | F   | HAIRCRACKS/STAINING   |                         |                        |
|                 |     |                       |                         |                        |
|                 |     |                       |                         |                        |
| DIAPHRAGMS      | F   | SCALE/HAIRCRACKS/LEAC | HING/SPALLS W/EXPOSED I | REBAR                  |
|                 |     |                       |                         |                        |
|                 |     |                       |                         |                        |



| BRIDGE NO. 47-3 | 378                            | 80-00.31 03-18-           | 20 GM | BOTTOM DECK SPAN 2 |
|-----------------|--------------------------------|---------------------------|-------|--------------------|
| BOTTOM DECK     | 30TTOM DECK F HAIRCRACKS/STAIN |                           |       |                    |
|                 |                                |                           |       |                    |
|                 |                                |                           |       |                    |
| BEAMS           | BEAMS F HAIRCRACKS/STAIN       |                           |       |                    |
|                 |                                |                           |       |                    |
|                 |                                |                           |       |                    |
| DIAPHRAGMS      | F                              | SCALE/HAIRCRACKS/LEACHING |       |                    |
|                 |                                |                           |       |                    |
|                 |                                |                           |       |                    |



## ELEVATION



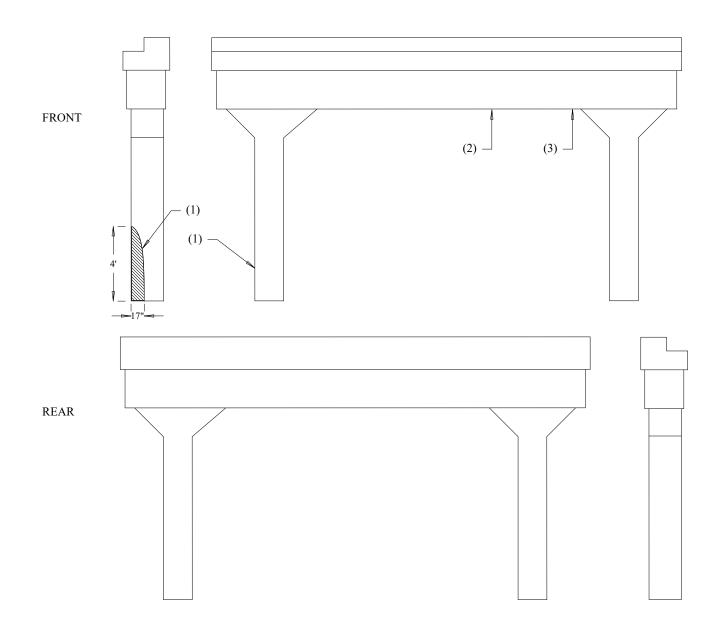
| BRIDGE NO. 47-3780-00.31 |                               | 780-00.31                          | 03-18-20 ACSIII                | ABUTMENT 1 |
|--------------------------|-------------------------------|------------------------------------|--------------------------------|------------|
| BREASTWALL               | F                             | (1) 3" DEEP SPALLING UNDER BEAM A  | (4) 1" OPEN CRACK UNDER BEAM I |            |
|                          |                               | (2) 2" DEEP SPALLING UNDER BEAM I  |                                |            |
|                          |                               | (3) NUMEROUS AREAS OF 2" DEEP SPAL | LLING ALONG BOTTOM             |            |
| BACKWALL                 | ACKWALL F HAIRCRACKS/STAINING |                                    |                                |            |
|                          |                               |                                    |                                |            |
|                          |                               |                                    |                                |            |
| WINGS                    | F                             | HAIRCRACKS/STAINING                |                                |            |
|                          |                               |                                    |                                |            |
|                          |                               |                                    |                                |            |

### PLAN

## ELEVATION

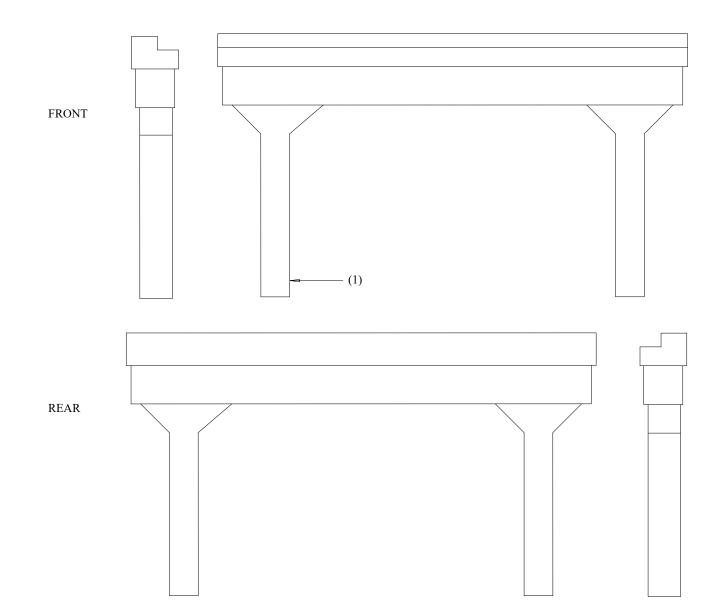
| BRIDGE NO. 47-3780-00.31<br>BREASTWALL F HAIRCRACKS/STAINING |   |                     | 03-18-20 ACSIII | ABUTMENT 2 |  |
|--|---|---------------------|-----------------|------------|--|
|  |   |                     |                 |            |  |
|  |   |                     |                 |            |  |
|  |   |                     |                 |            |  |
| BACKWALL   | F | HAIRCRACKS/STAINING |                 |            |  |
|  |   |                     |                 |            |  |
| WINGS  | F | HAIRCRACKS/STAINING |                 |            |  |
|  |   |                     |                 |            |  |
|  |   |                     |                 |            |  |

|   | <br> |
|---|------|
| Г |      |
|   | <br> |
|   |      |



| BRIDGE | NO. 47-3780-00.31                 | 03-18-20 ACSIII | BENT 1 |
|--------|-----------------------------------|-----------------|--------|
| CAP    | F LIGHT SCALE/HIGH STEEL POPO     | DUTS            |        |
|        | (2) IN PLACE SPALLING/DELAM       | INATION BOTTOM  |        |
|        | (3) SPALL W/EXPOSED REBAR 2       | DIAMETER BOTTOM |        |
|        |                                   |                 |        |
|        |                                   |                 |        |
| COLUM  | NS F (1) 1" DEEP SCALING W/BROKEN | NREBAR COLUMN A |        |
|        |                                   |                 |        |
|        |                                   |                 |        |
|        |                                   |                 |        |
|        |                                   |                 |        |

|  |  |          | 1 |
|--|--|----------|---|
|  |  |          | 1 |
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|  |  | <u> </u> |   |



| BENT 2 |
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|        |

47-3780-00.31

03-18-20 BR

#### LOGGED TOWARD CUMBERLAND AVENUE

