| NC DEPARTMENT OF TRANSPORTATION ATTENTION: PAR DIVISION OF HIGHWAYS STRUCTURE MANAGEMENT UNIT | R Submitted, Newly structure deficient, Change to cture data |
|---|---|
| Structure Safety R | leport |
| Routine Element Inspection | - Contract |
| DIVISION: 10 COUNTY: CABARRUS STRUCTURE NUMBER: | 120057 FREQUENCY: 24 MONTHS |
| FACILITY CARRIED: US29 & US601 NBL | MILE POST: |
| LOCATION: 0.1 MI. N. JCT. SR1394 | |
| FEATURE INTERSECTED: IRISH BUFFALO CREEK | |
| LATITUDE: <u>35° 24' 54.37"</u> LONGITUDE: <u>80° 36' 48.02</u> | |
| SUPERSTRUCTURE: | |
| SUBSTRUCTURE: | |
| SPANS: 3 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS | |
| FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITI | CAL SCOUR PLAN OF ACTION |
| GRADES: (Inspector/NBI Coding) DECK 7/7 SUPERSTRUCTURE 7/7 | SUBSTRUCTURE 4/4 CULVERT N/N |
| POSTED SV: Not Posted POSTED TTS | T: Not Posted |

OTHER SIGNS PRESENT: NONE

| the second | 1 | and the second | Sign notice issued for | d | | Number Required |
|-----------------------------------|-------------|----------------|---------------------------|---------------------|-------|--------------------|
| | | And the second | NO | WEIGHT LI | МІТ | 0 |
| | all be been | and the second | NO | DELINEAT | ORS | 0 |
| A STATE OF THE SECOND | | | NO | NARROW BR | IDGE | 0 |
| | - | | NO | ONE LANE BF | RIDGE | 0 |
| | | | NO | | ANCE | 0 |
| | - | | | | | |
| | | 2 | DIRE(INSF | CTION OF PECTION | S-N | |
| | | | DIR MATCH | ECTION IES PLANS | NO F | PLANS |
| looking north | | | | | | |
| INSPECTED BY Thomas Graham, PE | SIGNATURE | Thin Job- | ASSISTED BY | M. Ferguson | | |

NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

06/23/2021

| IDENTIFICATION | | | |
|---|--------|---------------|--------------------|
| (1) STATE NAME NORTH CAROLINA BRIDGE | | 120057 | SUFFICIENCY RATI |
| (8) STRUCTURE NUMBER (FEDERAL) | | 0250057 | STATUS = |
| (5) INVENTORY ROUTE (ON/UNDER) ON | 12 | 1000290 | |
| (2) STATE HIGHWAY DEPARTMENT DISTRICT (3) COUNTY CODE (FEDERAL) 25 (4) PLACE CODE | | 14100 | (112) NBIS BRIDGE |
| (6) FEATURE INTERSECTED IRISH BUFFALO CREEK | | | (104) HIGHWAY SYS |
| (7) FACILITY CARRIED US29 & US601 NBL | | | (26) FUNCTIONAL C |
| (9) LOCATION 0.1 MI. N. JCT. SR1394 | | | (100) STRAHNET HI |
| (11) MILEPOINT (12) BASE HIGHWAY NETWORK | | 0.0 | (101) PARALLEL ST |
| (13) LRS INVENTORY ROUTE & SUBROUTE | | 20029 | (102) DIRECTION O |
| (16) LATITUDE 35° 24' 54.37" (17) LONGITUDE | 80° 36 | 6' 48.02" | (103) TEMPORARY |
| (98) BORDER BRIDGE STATE CODE PERCENT SH | IARED | | (110) DESIGNATED |
| (99) BORDER BRIDGE STRUCTURE NUMBER | | | (20) TOLL |
| STRUCTURE TYPE AND MATERIAL | | | (21) MAINT - |
| (43) STRUCTURE TYPE MAIN | c | Concrete | (22) OWNER - |
| TYPE Tee Beam | CODE | 104 | (37) HISTORICAL SI |
| (44) STRUCTURE TYPE APPROACH | | | |
| TYPE | CODE | | (58) DECK |
| (45) NUMBER OF SPANS IN MAIN UNIT | | 3 | (59) SUPERSTRUCT |
| (46) NUMBER OF SPANS IN APPROACH | | 0 | (60) SUBSTRUCTUR |
| (107) DECK STRUCTURE TYPE | CODE | 1 | (61) CHANNEL & CH |
| (108)WEARING SURFACE/PROTECTIVE SYSTEM | | | (62) CULVERTS |
| (A) TYPE OF WEARING SURFACE | CODE | 6 | |
| (B) TYPE OF MEMBRANE | CODE | 0 | (31) DESIGN LOAD |
| (C) TYPE OF DECK PROTECTION | CODE | 0 | (63) OPERATING RA |
| AGE AND SERVICE | | | (64) OPERATING RA |
| (27) YEAR BUILT | | 1951 | (65) INVENTORY RA |
| (106) YEAR RECONSTRUCTED | | 0 | (66) INVENTORY RA |
| (42) TYPE OF SERVICE ON - | H | lighway | (70) BRIDGE POSTI |
| OFF - Waterway | CODE | 15 | (41) STRUCTURE O |
| (28) LANES ON STRUCTURE 2 LANES UNDER STRUC | TURE | 0 | DESCRIPTIC |
| (29) AVERAGE DAILY TRAFFIC | | 14750 | |
| (30) YEAR OF ADT 2018 (109) TRUCK ADT PCT | | 12 | (67) STRUCTURAL E |
| (19) BYPASS OR DETOUR LENGTH | | 1.0 | (68) DECK GEOMET |
| GEOMETRIC DATA | | | (69) UNDERCLEARA |
| (48) LENGTH OF MAXIMUM SPAN | | 56.0 | (71) WATERWAY AD |
| (49) STRUCTURE LENGTH | | 172.0 | (72) APPROACH RC |
| (50) CURB OR SIDEWALK: LEFT 1.6 RIGHT (51) BRIDGE ROADWAY WIDTH CURB TO CURB | | 1.6 28.1 | (36) TRAFFIC SAFE |
| (52) DECK WIDTH OUT TO OUT | | 33.3 | (113) SCOUR CRITI |
| (32) APPROACH ROADWAY WITH (W/ SHOULDERS) | | 27.0 | |
| (33) BRIDGE MEDIAN Open median C | ODE | 1 | (75) TYPE OF WORI |
| (34) SKEW 45 (35) STRUCTURE FLARED | | 0 | (76) LENGTH OF ST |
| (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR | | 999.9 28.0 | (94) BRIDGE IMPRC |
| (53) MIN VERT CLEAR OVER BRIDGE RDWY | | 999.9 | (95) ROADWAY IMP |
| (54) MIN VERT UNDERCLEAR: REFERENCE | | 0.0 | (96) TOTAL PROJEC |
| (55) MIN LAT UNDERCLEARANCE RT: REFERENCE | N | 0.0 | (97) YEAR OF IMPR |
| (56) MIN LAT UNDERCLEARANCE LT: | | 0.0 | (114) FUTURE ADT |
| NAVIGATION DATA | | | |
| (38) NAVIGATION CONTROL - | CODE | 0 | (90) INSPECTION D |
| (111) PIER PROTECTION | CODE | | (92) CRITICAL FEAT |
| (39) NAVIGATION VERTICAL CLEARANCE | | 0.0 | A) FRACTURE |
| (116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR | | 0.0 | B) UNDERWA |
| (40) NAVIGATION HORIZONTAL CLEARANCE | | 0.0 | C) OTHER SPE |
| | | | SCOUR |

| SUFFICIENCY RATING | | 49.29 |
|------------------------------|---|-----------|
| STATUS = | Structurally | Deficient |
| c | LASSIFICATION | CODE |
| (112) NBIS BRIDGE SYSTEM | | YES |
| (104) HIGHWAY SYSTEM | Inventory Route is on NHS | 1 |
| (26) FUNCTIONAL CLASS | Urban Other Principal Arterial | 14 |
| (100) STRAHNET HIGHWAY | Non-Interstate STRAHNET Route | 2 |
| (101) PARALLEL STRUCTURE | The right structure of parallel bridges | R |
| (102) DIRECTION OF TRAFFIC | 1-way traffic | 1 |
| (103) TEMPORARY STRUCTURE | | |
| (110) DESIGNATED NATIONAL NE | TWORK - on natiional network for trucks | 1 |
| (20) TOLL | On Free Road | 3 |
| (21) MAINT - | | 01 |
| 22) OWNER - | | 01 |
| (37) HISTORICAL SIGNIFICANCE | - | 5 |
| | | CODE |
| (58) DECK | | 7 |
| (59) SUPERSTRUCTURE | | 7 |
| (60) SUBSTRUCTURE | | 4 |
| (61) CHANNEL & CHANNEL PROT | ECTION | 5 |
| (62) CULVERTS | | N |
| LOAD RA | | CODE |
| (31) DESIGN LOAD | HS20 | 5 |
| (63) OPERATING RATING METHO | D - Load Factor | 1 |
| (64) OPERATING RATING - | HS-32 | 58 |
| (65) INVENTORY RATING METHO | D - | 1 |
| (66) INVENTORY RATING | HS-19 | 35 |
| (70) BRIDGE POSTING | No Posting Required | 5 |
| (41) STRUCTURE OPEN, POSTED |), OR CLOSED | А |
| DESCRIPTION | Open, no restriction | |
| | APPRAISAL | CODE |
| 67) STRUCTURAL EVALUATION | | 4 |
| 68) DECK GEOMETRY | | 2 |
| (69) UNDERCLEARANCES, VERT | & HORIZ | N |
| (71) WATERWAY ADEQUACY | | 4 |
| (72) APPROACH ROADWAY ALIGI | NMENT | 2 |
| (36) TRAFFIC SAFETY FEATURES | 3 | 0111 |
| (113) SCOUR CRITICAL BRIDGES | | 8 |
| PROPOS | SED IMPROVEMENTS | |
| 75) TYPE OF WORK | CODI | E |
| (76) LENGTH OF STRUCTURE IM | PROVEMENT | |
| 94) BRIDGE IMPROVEMENT COS | \$T | |
| (95) ROADWAY IMPROVEMENT C | OST | |
| 96) TOTAL PROJECT COST | | |
| 97) YEAR OF IMPROVEMENT CO | STESTIMATE | |
| (114) FUTURE ADT 2 | 9,500 YEAR OF FUTURE ADT | 2040 |
| | | |
| | 05/21 (91) FREQUENCY | 24 |
| | (93) CEI DAT | E |
| | A) | |
| B) UNDERWATER INSP | В) | |
| | 2 | |

Superstructure Build Details

Skew 135.0000

Span Length 57.3330

Span Number <u>1</u>

| Number of Items | Type of Component | Element Name | | Quantity | Protective System Applied | Quantity (Sq Ft) |
|--------------------|---------------------------------|---|------|-------------|---------------------------|---------------------|
| 2 | Concrete Railing | Reinforced Concrete Bridge Railing | 116 | Feet | | |
| 1 | Asphalt Wearing Surface | Wearing Surface | 1606 | Square Feet | | |
| 1 | Reinforced Concrete Deck | Reinforced Concrete Deck | 1907 | Square Feet | | |
| 4 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 232 | Feet | | |
| Span Nu | Span Number 2Span Length57.1670 | | | Ske | w 135.0000 | • |

| Number of Items | Type of Component | Element Name | | Quantity | Protective System Applied | Quantity (Sq Ft) |
|-----------------------------------|----------------------------|---|------|-------------|---------------------------|---------------------|
| 4 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 232 | Feet | | |
| 2 | Concrete Railing | Reinforced Concrete Bridge Railing | 116 | Feet | | |
| 1 | Asphalt Wearing Surface | Wearing Surface | 1601 | Square Feet | | |
| 1 | Reinforced Concrete Deck | Reinforced Concrete Deck | 1901 | Square Feet | | |
| Span Number 3 Span Length 57.3330 | | | | Ske | ew 135.0000 | |

| Number of Items | Type of Component | Element Name | Quantity | Protective System Applied | Quantity (Sq Ft) |
|--------------------|----------------------------|---|------------------|---------------------------|---------------------|
| 4 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 232 Feet | | |
| 1 | Reinforced Concrete Deck | Reinforced Concrete Deck | 1907 Square Feet | | |
| 1 | Asphalt Wearing Surface | Wearing Surface | 1606 Square Feet | | |
| 2 | Concrete Railing | Reinforced Concrete Bridge Railing | 116 Feet | | |

Structure Element Scoring

Structure Number: 120057

Inspection Date <u>5/5/2021</u>

| Element Number | Parent Number | Element Name | Location | Total Quantity | Level 1 Quantity | Level 2 Quantity | Level 3 Quantity | Level 4 Quantity |
|-------------------|------------------|--------------------------------------|-------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
| 12 | 0 | Reinforced Concrete Deck | Deck | 5715 | 5692 | 0 | 23 | 0 |
| 110 | 0 | Reinforced Concrete Open Girder/Beam | Beam | 696 | 680 | 9 | 7 | 0 |
| 205 | 0 | Reinforced Concrete Column | Piles and Columns | 6 | 0 | 3 | 2 | 1 |
| 215 | 0 | Reinforced Concrete Abutment | Abutments | 104 | 92 | 2 | 10 | 0 |
| 228 | 0 | Timber Pile | Piles and Columns | 18 | 18 | 0 | 0 | 0 |
| 234 | 0 | Reinforced Concrete Pier Cap | Caps | 188 | 143 | 10 | 25 | 10 |
| 331 | 0 | Reinforced Concrete Bridge Railing | Bridge Rail | 348 | 333 | 3 | 12 | 0 |
| 510 | 0 | Wearing Surface | Wearing Surfaces | 4813 | 4673 | 0 | 140 | 0 |

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 120057

Inspection Date: 05/05/2021

| MMS Code | Element Name | Defect Name | Recommended Quantity |
|-------------|--------------------------------------|-------------------------|----------------------|
| 3326 | Reinforced Concrete Deck | Delamination/Spall | 23 Square Feet |
| 3306 | Reinforced Concrete Open Girder/Beam | Cracking (RC and Other) | 3 Feet |
| 3306 | Reinforced Concrete Open Girder/Beam | Delamination/Spall | 8 Feet |
| 3348 | Reinforced Concrete Column | Cracking (RC and Other) | 23 Each |
| 3348 | Reinforced Concrete Column | Delamination/Spall | 5 Each |
| 3350 | Reinforced Concrete Abutment | Cracking (RC and Other) | 10 Feet |
| 3348 | Reinforced Concrete Pier Cap | Cracking (RC and Other) | 20 Feet |
| 3348 | Reinforced Concrete Pier Cap | Delamination/Spall | 18 Feet |
| 3318 | Reinforced Concrete Bridge Railing | Delamination/Spall | 14 Feet |
| 3318 | Reinforced Concrete Bridge Railing | Exposed Rebar | 1 Feet |
| 3318 | Reinforced Concrete Bridge Railing | Damage | 290 Feet |
| 2816 | Wearing Surface | Crack (Wearing Surface) | 140 Square Feet |

Element Structure Maintenance Quantities

| Structure Number: | <u>120057</u> | | | | In | spection D | 05/05/ | <u>2021</u> |
|-------------------|---------------|--|-------------------|-------------------|--------------------|------------------|------------------|------------------|
| Location | MMS Code | Description | Maint Quantity | Total Quantity | Severe Quantity | Poor Quantity | Fair Quantity | Good Quantity |
| Abutments | 3350 | Maintenance of Concrete Wings and Wall | 10 | 104 | 0 | 10 | 2 | 92 |
| Beam | 3306 | Maintenance Concrete Superstructure Components | 11 | 696 | 0 | 7 | 9 | 680 |
| Bridge Rail | 3318 | Maintenance of Concrete Bridge Rail | 15 | 348 | 0 | 12 | 3 | 333 |
| Caps | 3348 | Maintenance of Concrete Substructure | 38 | 188 | 10 | 25 | 10 | 143 |
| Deck | 3326 | Maintenance of Concrete Deck | 23 | 5715 | 0 | 23 | 0 | 5692 |
| Piles and Columns | 3344 | Maintenance To Timber Substrcutre | 0 | 18 | 0 | 0 | 0 | 18 |
| Piles and Columns | 3348 | Maintenance of Concrete Substructure | 28 | 6 | 1 | 2 | 3 | 0 |
| Wearing Surfaces | 2816 | Asphalt Surface Repair | 140 | 4813 | 0 | 140 | 0 | 4673 |

Priority Actions Request

| Structure Nun | nber <u>120057</u> | | |
|-------------------|--------------------|---------------|--|
| Bent 1 | | | |
| 3348 | Cap 1 | Reinforced Co | ncrete Pier Cap |
| Priority Level | Defect Type | Quantity | Defect Description |
| 2 | Delamination/Spall | 5 | Bent 1 Cap 1: [PAR] SOUTH FACE AT GIRDER 4, SPALLING WITH EXPOSED REBAR [5' x up to full height x up to 8" deep] WITH APPROXIMATELY 20% LOSS OF BEARING AREA, NO MEASURABLE SECTION LOSS |
| 3348 | Pile 1 | Reinforced Co | ncrete Column |
| Priority Level | Defect Type | Quantity | Defect Description |
| 2 | Delamination/Spall | 5 | Bent 1 Pile 1: [PAR] North face, approximately 3' below cap, spall [32" x 4" x 1" deep] with exposed rusted reinforcing with no measurable section loss |
| 3348 | Cap 1 | Reinforced Co | ncrete Pier Cap |
| Priority Level | Defect Type | Quantity | Defect Description |
| 2 | Delamination/Spall | 3 | End Bent 1 Cap 1: [PAR] LEFT OUTBOARD END AT THE TOP EXTENDING TO GIRDER 1, SPALLING WITH EXPOSED REBAR, DELAMINATION AND HORIZONTAL CRACKING TO 1/4" WIDE [APPROXIMATELY 3' LONG X UP TO 1' WIDE X UP TO 3" DEEP] WITH FLAKING RUST AND PITTING UP TO 1/16" DEEP, APPROXIMATELY 5% LOSS OF BEARING AREA |
| Bent 2 | | | |
| 3348 | Cap 1 | Reinforced Co | ncrete Pier Cap |
| Priority | Defect Type | Quantity | Defect Description |

| Level | Delect Type | Quantity | Delect Description |
|-------|--------------------|----------|---|
| 2 | Delamination/Spall | 5 | Bent 2 Cap 1: [PAR] north face at bay 2, spall (5' x 10" x 1.75") with exposed rusted rebar [section loss up to 1/8"] |

Element Condition and Maintenance Data

| ucture Number: 120 | 057 | | | | | 111 | • | |
|--|---|--|---|--|---|--|--|--------------|
| Span 1 | | Deck | | | | | | |
| Reinforced Co | oncrete Deck | | | | | | | |
| Element Number 12 | E Reinforced Cor | lement Name ncrete Deck | Total Qty 1,907 | CS1 Qty 1,906 | CS2 Qty 0 | CS3 Qty 1 | CS4 Qty 0 | Square Feet |
| Element Defect | Туре | Defect Descrip | otion | | CS | CS Qty | Maint | |
| 12 Delaminatio | on/Spall unde WITH UP T | erside west overhang at 3' from I EXPOSED REBAR [APPROXI O 1" DEEPI. NO MEASURABL | end bent 1, SPA MATELY 8" DIAM E SECTION LOSS | ALLING METER X S | 3 | 1 | uty 1 | Square Feet |
| General Com | ments | • | | | | | | |
| Span 1 | | Beam 1 | | | | | | |
| Reinforced Co | oncrete Girde | r | | | | | | |
| Element Number | E | lement Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
| 110 | Reinforced Cor | ncrete Open Girder/Beam | 58 | 58 | 0 | 0 | 0 | Feet |
| lomont | Type | Defect Descrip | otion | | cs | CS Qty | Maint Qty | |
| Number Defect | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - | | | | | | |
| lumber Defect 110 Cracking (R Other) General Com | C and east (up t | face scattered throughout at ra o 2' x hairline) (west face simil | andom, vertical c ar) | cracks | 1 | 6 | | Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 | C and east (up t ments | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 | andom, vertical c ar) | cracks | 1 | 6 | | Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co | C and east (up t ments | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er | andom, vertical o ar) | cracks | 1 | 6 | | Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number | C and east (up t ments | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name | andom, vertical o ar) Total Qty | CS1 Qty | 1 CS2 Qty | 6 CS3 Qty | CS4 Qty | Feet |
| Iumber Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 | C and east (up t iments oncrete Girde Reinforced Cor | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name ncrete Open Girder/Beam | andom, vertical o ar) Total Qty 58 | CS1 Qty 58 | 1 CS2 Qty 0 | 6 CS3 Qty 0 | CS4 Qty 0 | Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 Element Defect | C and east (up t iments oncrete Girde Reinforced Cor Type | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name ncrete Open Girder/Beam Defect Descrip | andom, vertical o ar) Total Qty 58 | CS1 Qty 58 | 1 CS2 Qty 0 CS | 6 CS3 Qty 0 CS Qty | CS4 Qty 0 Maint Qty | Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 Element Defect 110 Cracking (R Other) | C and east (up t ments encrete Girde Reinforced Cor Type C and east (up t | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name ncrete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil | andom, vertical o ar) Total Qty 58 otion andom, vertical o ar) | CS1 Qty 58 cracks | 1 CS2 Qty 0 CS 1 | 6 CS3 Qty 0 CS Qty 6 | CS4 Qty 0 Maint Qty | Feet Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 Element Number Defect 110 Cracking (R Other) General Com | C and east (up t iments oncrete Girde Reinforced Cor Type C and east (up t iments | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name norete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil | andom, vertical o ar) Total Qty 58 otion andom, vertical o ar) | CS1 Qty 58 | 1 CS2 Qty 0 CS 1 | 6 CS3 Qty 0 CS Qty 6 | CS4 Qty 0 Maint Qty | Feet Feet |
| Span 1 Element Number Span 1 Reinforced Co Element Number 110 Element Number Defect 110 Cracking (R Other) General Com | C and east (up t iments oncrete Girde Reinforced Cor Type C and east (up t iments | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name norete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil Beam 3 | andom, vertical o ar) Total Qty 58 otion andom, vertical o ar) | CS1 Qty 58 | 1 CS2 Qty 0 CS 1 | 6 CS3 Qty 0 CS Qty 6 | CS4 Qty 0 Maint Qty | Feet Feet |
| Span 1 Reinforced Co Element Number 110 Span 1 Reinforced Co Element Number 110 Element Number Defect 110 Cracking (R Other) General Com | C and east (up t iments oncrete Girde Reinforced Cor Type C and east (up t iments | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name horete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil Beam 3 er | andom, vertical o ar) Total Qty 58 otion andom, vertical o ar) | CS1 Qty 58 | 1 CS2 Qty 0 CS 1 | 6 CS3 Qty 0 CS Qty 6 | CS4 Qty 0 Maint Qty | Feet Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 Element Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number | C and east (up t iments oncrete Girde Reinforced Cor Type C and east (up t iments oncrete Girde | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name horete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil Beam 3 er lement Name | andom, vertical o ar) Total Qty 58 otion andom, vertical o ar) Total Qty | CS1 Qty 58 cracks | 1 CS2 Qty 0 CS 1 | 6 CS3 Qty 0 CS Qty 6 | CS4 Qty 0 Maint Qty CS4 Qty | Feet Feet |
| Number Defect 110 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 Element Number 110 Cracking (R Other) General Com Span 1 Reinforced Co Span 1 Reinforced Co Span 1 Reinforced Co Element Number 110 | C and east (up t ments oncrete Girde Reinforced Cor Type C and east (up t ments oncrete Girde Reinforced Cor | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name norete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil Beam 3 er lement Name norete Open Girder/Beam | andom, vertical of ar) Total Qty 58 otion andom, vertical of ar) Total Qty 58 | CS1 Qty 58 Cracks CS1 Qty 58 | 1 CS2 Qty 0 CS 1 CS2 Qty 0 | 6 CS3 Qty 0 CS Qty 6 CS3 Qty 0 | CS4 Qty 0 Maint Qty CS4 Qty 0 | Feet Feet |
| Span 1 Reinforced Co Element Number 110 Span 1 Reinforced Co Element Number 110 Element Span 1 Cracking (R Other) General Com Span 1 Reinforced Co Element Number 110 Span 1 General Com | C and east (up t iments oncrete Girde Reinforced Cor Type C and east (up t iments oncrete Girde Reinforced Cor E Reinforced Cor Type | face scattered throughout at ra o 2' x hairline) (west face simil Beam 2 er lement Name horete Open Girder/Beam Defect Descrip face scattered throughout at ra o 2' x hairline) (west face simil Beam 3 er lement Name horete Open Girder/Beam | andom, vertical of ar) Total Qty 58 otion andom, vertical of ar) Total Qty 58 | CS1 Qty 58 Cracks CS1 Qty 58 | 1 CS2 Qty 0 CS 1 CS2 Qty 0 CS2 | 6 CS3 Qty 0 CS Qty 0 CS Qty 0 | CS4 Qty 0 Maint Qty 0 Maint Qty | Feet Feet |

Span 1

Reinforced Concrete Girder

| Elem Num | ent ber | Element Name | Total Qty | Fotal CS1 Qty Qty | | CS3 Qty | CS4 Qty | |
|-------------------|----------------------------|---|--------------|----------------------|----|------------|--------------|------|
| 110 | Reinford | ed Concrete Open Girder/Beam | 58 | 57 | 1 | 0 | 0 F | eet |
| Element Number | Defect Type | Defect Description | | | CS | CS Qty | Maint Qty | |
| 110 | Delamination/Spall | left face at bent 1, delamination [8" x 16"] | | | 2 | 1 | 1 | Feet |
| 110 | Cracking (RC and Other) | east face scattered throughout at random (up to 2' x hairline) (west face similar) | , vertical c | racks | 1 | 6 | | Feet |

General Comments

Span 1

Wearing Surface

Beam 4

Asphalt Wearing Surface

| Elem Num | nent Iber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty |
|-------------------|----------------------------|---|--------------|------------|------------|------------|---------------|
| 510 | Wearing | g Surface | 1,606 | 1,536 | 0 | 70 | 0 Square Feet |
| Element Number | Defect Type | Defect Descri | ption | | CS | CS Qty | Maint Qty |
| 510 | Crack (Wearing Surface) | AT THE SPAN ENDS, SCATTERED CRACKING UP TO 1" WIDE | TRANSVERSE | | 3 | 70 | 70 Square Fee |
| | Surface) | CRACKING UP TO 1" WIDE | | | - | | |

| Spa | n 1 | Right Bridge | e Rail | | | | | | |
|--------------------|--------------------------|---|--------------------|-------------------------|-------------------------------|------------------------|-------------------------------|--------|--|
| Con | crete Railing | | | | | | | | |
| Elen Nun 331 | nent nber Reinford | Element Name ced Concrete Bridge Railing | Total Qty 58 | CS1 Qty 55 | CS2 Qty 0 | CS3 Qty 3 | CS4 Qty 0 | Feet | |
| Elemen Number | t r Defect Type | Defect Descri | iption | | CS | CS Qty | Maint Qty | | |
| 331 | Delamination/Spall | near bent 1, (3) spalls (up to 15" x rusted rebar, [loss up to 1/8"] | 5" x 1") with expo | osed | 3 | 3 | : | 3 Feet | |
| 331 | Damage | at bent 1, misaligned/out of plane (3/ | /4in) | | 1 | | | Feet | |

General Comments

Span 2

Deck

Reinforced Concrete Deck

| Elen Num | nent nber | | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|------------------|--------------|--------------|---|--------------------------------------|--------------------|------------|------------|--------------|-------------|
| 12 | | Reinforc | ed Concrete Deck | 1,901 | 1,887 | 0 | 14 | 0 S | quare Feet |
| Elemen Numbei | t r De | efect Type | Defect Descr | iption | | CS | CS Qty | Maint Qty | |
| 12 | Delami | nation/Spall | underside east overhang at bent with exposed rusted rebar, NO M LOSS | 1, spalls (up to 1' EASURABLE SEC | x 8" x 1") TION | 3 | 9 | 9 | Square Feet |
| 12 | Delami | nation/Spall | underside east overhang at bent 2 diameter x 1") with exposed ruste MEASURABLE SECTION LOSS | 2, spalls (up to 10 d rebar, NO | | 3 | 5 | 5 | Square Feet |

General Comments

Span 2

Reinforced Concrete Girder

| Elem Num | lent ber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------------|---|--|---|-------------------------|------------|------------|--------------|--|
| 110 | Reinford | ed Concrete Open Girder/Beam | 58 | 52 | 4 | 2 | 0 Feet | |
| Element Number | Defect Type | Defect Descript | ion | | CS | CS Qty | Maint Qty | |
| 110 | 110 Delamination/Spall GIRDER END AT BENT 1, LEFT SIDE AT THE TO WITH EXPOSED REBAR [APPROXIMATELY 18" X UP TO 3/4" DEEP], NO MEASURABLE SECTIO adjacent delamination [2'l x up to 18" high] | | E AT THE TOP, 3 MATELY 18" DIA BLE SECTION L " high] | SPALL METER .OSS. | 3 | 2 | 3 Feet | |
| 110 | Cracking (RC and Other) | east face scattered throughout at ra (up to full height x 0.15") (west face | ndom, vertical o similar) | cracks | 2 | 4 | Feet | |
| G | General Comments | | | | | | | |

Span 2

Beam 2

Beam 1

Reinforced Concrete Girder

| Elem Num | lent ber | Element Name | otal Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------------|----------------------------|--|---|------------|------------|------------|--------------|--------|
| 110 | Reinford | ed Concrete Open Girder/Beam | 58 | 56 | 0 | 2 | 0 | Feet |
| Element Number | Defect Type | Defect Description | | | CS | CS Qty | Maint Qty | |
| 110 | Delamination/Spall | west face at bent 1, spall (18" x 6" x 1/2" deep exposed rusted rebar; delamination [16" x 16 | o) with "] | | 3 | 2 | : | 2 Feet |
| 110 | Cracking (RC and Other) | east face scattered throughout at random, ve (up to full height x less than 0.012") (west fac | st face scattered throughout at random, vertical cracks to full height x less than 0.012") (west face similar) | | 1 | 6 | | Feet |
| G | General Comments | | | | | | | |

Span 2

Beam 3

Reinforced Concrete Girder

| Elen Num 110 | nent Iber Reinford | Element Name ced Concrete Open Girder/Beam | Total Qty 58 | CS1 Qty 58 | CS2 Qty 0 | CS3 Qty 0 | CS4 Qty 0 Feet |
|--------------------|----------------------------|---|--------------------|-------------------------|-------------------------------|-------------------------------|----------------------|
| Element Number | Defect Type | Defect Description | on | | cs | CS Qty | Maint Qty |
| 110 | Cracking (RC and Other) | east face scattered throughout at rand (up to 2' x hairline) (west face similar) | dom, vertical o | cracks | 1 | 6 | Feet |

General Comments

Span 2

Beam 4

Reinforced Concrete Girder

| Elem Num | ent ber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty |
|-------------------|----------------------------|---|--------------------------------------|--------------|------------|------------|--------------|
| 110 | Reinford | ed Concrete Open Girder/Beam | 58 | 57 | 0 | 1 | 0 Feet |
| Element Number | Defect Type | Defect Descript | ion | | CS | CS Qty | Maint Qty |
| 110 | Delamination/Spall | west face at bent 1, spall (15in x 3in rusted rebar | x 1/2in) with ex | posed | 3 | 1 | 2 Feet |
| 110 | Cracking (RC and Other) | east face scattered throughout at ran (up to full height x less than 0.012") | ndom, vertical c (west face simil | racks ar) | 1 | 7 | Feet |

General Comments

Span 2

Concrete Railing

| Elerr Num | Element Number | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------------|--------------------|--|---|------------|------------|------------|--------------|-------------|
| 331 | Reinford | ed Concrete Bridge Railing | 58 | 54 | 1 | 3 | 0 | Feet |
| Element Number | Defect Type | Defect Descri | ption | | CS | CS Qty | Maint Qty | |
| 331 | Delamination/Spall | exterior face at 13ft from bent 1, (3 1") with exposed rusted rebar, NO LOSS | tterior face at 13ft from bent 1, (3) spalls (up to 15" x 4" x) with exposed rusted rebar, NO MEASURABLE SECTION DSS | | 3 | 3 | : | 3 Feet |
| 331 | Exposed Rebar | at 16' from bent 1, [1] exposed rus | ted reinforcing | | 2 | 1 | | 1 Feet |
| 331 | Patched Area | at 18ft from bent 2, repair area (2ft | x full height) | | 1 | | | Square Feet |
| ī | General Comments | | | | | | | |

Span 2

Right Bridge Rail

Concrete Railing

| Elem Num 331 | ent ber Reinfor | Element Name ced Concrete Bridge Railing | Total Qty 58 | CS1 Qty 55 | CS2 Qty 0 | CS3 Qty 3 | CS4 Qty 0 Feet | |
|--------------------|-----------------------|--|--|--------------------------------|-------------------------------|-------------------------------|----------------------|--|
| Element Number | Defect Type | Defect Descrip | otion | | CS | CS Qty | Maint Qty | |
| 331 | Delamination/Spall | base of posts at 10' from bent 1, (3) length x 3" DEEP) with exposed rus WIDE EMANATES FROM THE IMPA REBAR ON ONE UPRIGHT HAS AP SECTION LOSS. |) spalls (up to 8" sted rebar. CKG ACTED AREAS. T PROXIMATELY 9 | x full TO 1/8" HE 50% | 3 | 3 | 3 Feet | |

General Comments

at bent 2, misaligned/out of plane (1.5")

Span 3

Deck

Reinforced Concrete Deck

| Elen Num | nent Iber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------------|--------------------|---|--|------------------|------------|------------|---------------|-----|
| 12 | Reinford | ed Concrete Deck | 1,907 | 1,899 | 0 | 8 | 0 Square Feet | t |
| Element Number | Defect Type | Defect Desc | ription | | CS | CS Qty | Maint Qty | |
| 12 | Delamination/Spall | underside east overhang at mids 4" x 1") with exposed rusted reb SECTION LOSS | pan, (3) spalls (up ar, NO MEASURAI | o to 8" x BLE | 3 | 3 | 3 Square Fe | eet |
| 12 | Delamination/Spall | underside west overhang scatter drains, spalls (up to 10" x 6" x 1' rebar, NO MEASURABLE SECTIO | ed throughout at) with exposed ru DN LOSS | deck sted | 3 | 5 | 5 Square Fe | eet |

General Comments

Span 3

Beam 1

Reinforced Concrete Girder

| Elen Num | nent Iber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------------|----------------------------|---|--------------------------------------|--------------|------------|------------|--------------|--|
| 110 | Reinfor | ced Concrete Open Girder/Beam | 58 | 54 | 4 | 0 | 0 Feet | |
| Element Number | Defect Type | Defect Descript | ion | | CS | CS Qty | Maint Qty | |
| 110 | Cracking (RC and Other) | along exterior face multiple vertical a (full height x 0.02") | and diagonal cr | acks | 2 | 4 | Feet | |
| 110 | Cracking (RC and Other) | east face scattered throughout at rai (up to full height x less than 0.012") | ndom, vertical c (west face simil | racks ar) | 1 | 6 | Feet | |

General Comments

| Spa | an 3 | Beam 2 | | | | | | | | | |
|--|--------------------------------|---|-------------------------------------|-------------------------|-------------------------------|------------------------|----------------------|--|--|--|--|
| Rei | Reinforced Concrete Girder | | | | | | | | | | |
| Ele Nui 110 | ment mber Reinfor | Element Name rced Concrete Open Girder/Beam | Total Qty 58 | CS1 Qty 57 | CS2 Qty 0 | CS3 Qty 1 | CS4 Qty 0 Feet | | | | |
| Elemer | nt Defect Type | Defect Description | on | | cs | CS Qty | Maint Otv | | | | |
| 110 Cracking (RC and east face at bent 2, vertical crack (15" x up to 1/16") Other) | | | | | 3 | 1 | 1 Feet | | | | |
| 0ther) 110 Cracking (RC and east face scattered throughout at random, vertical cra 0ther) (up to full height x less than 0.012") (west face similar) | | | | racks ar) | 1 | 6 | Feet | | | | |
| | General Comments | | | | | | | | | | |
| Spa | an 3 | Beam 3 | | | | | | | | | |
| Rei | nforced Concrete | Girder | | | | | | | | | |
| Ele | ment | Element Name | Total Otv | CS1 Otv | CS2 | CS3 Otv | CS4 Otv | | | | |
| NumberElement NameQtyQ110Reinforced Concrete Open Girder/Beam5851 | | | | | 0 | 1 | 0 Feet | | | | |
| Elemer Numbe | nt er Defect Type | Defect Description | on | | CS | CS Qty | Maint Qty | | | | |
| 110 | Cracking (RC and Other) | at bent 2, vertical crack (15" x up to 1/ | 16") | | 3 | 1 | 2 Feet | | | | |
| 110 | Cracking (RC and Other) | east face scattered throughout at rand (up to full height x less than 0.012") (v | dom, vertical c vest face simila | racks ar) | 1 | | Feet | | | | |
| | General Comments | | | | | | | | | | |
| Spa | an 3 | Beam 4 | | | | | | | | | |
| Rei | nforced Concrete | Girder | | | | | | | | | |
| Ele Nui | ment mber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | | | | |
| 110 | Reinfor | ced Concrete Open Girder/Beam | 58 | 58 | 0 | 0 | 0 Feet | | | | |
| Elemer Numbe | nt Defect Type | Defect Description | on | | cs | CS Qty | Maint Qty | | | | |
| 110 Cracking (RC and Other) east face scattered throughout at random, vertical cracks 1 Feet Other) (up to 2' x hairline) (west face similar) 1 Feet | | | | | | | | | | | |
| General Comments | | | | | | | | | | | |
| Spa | an 3 | Wearing Surfac | ce | | | | | | | | |
| Asp | ohalt Wearing Sur | face | | | | | | | | | |
| Element Total CS1 CS2 CS3 CS4 Number Element Name Qty Qty Qty Qty Qty | | | | | | CS4 Qty | | | | | |

| 510 | Wearin | g Surface 1 | 606 | 1,536 | 0 | 70 | 0 Square Feet |
|---------|----------------------------|---|------|-------|----|--------|----------------|
| Element | t Defect Type | Defect Description | | | CS | CS Qty | Maint Qty |
| 510 | Crack (Wearing Surface) | AT THE SPAN ENDS, SCATTERED TRANSVI CRACKING UP TO 1" WIDE | ERSE | | 3 | 70 | 70 Square Feet |
| | | | | | | | |

General Comments

Structure Number: 120057 Inspection Date: 05/05/2021 Left Bridge Rail Span 3 **Concrete Railing** Element Total CS1 CS2 CS3 CS4 **Element Name** Number Qty Qty Qty Qty Qty 331 Reinforced Concrete Bridge Railing 58 55 0 3 0 Feet Element Maint **Defect Type Defect Description** cs CS Qty Number Qty 331 **Delamination/Spall** at midspan, (3) spalls (up to 10in x 4in x 1in) with exposed 3 3 3 Feet rusted rebar **General Comments** Span 3 **Right Bridge Rail Concrete Railing** Total CS1 CS2 CS3 CS4 Flement Number Element Name Qty Qty Qty Qty Qty 331 Reinforced Concrete Bridge Railing 0 Feet 58 56 2 0 Element Maint **Defect Type Defect Description** cs CS Qty Number Qty 331 **Delamination/Spall** at 8' from end bent 2, (2) spalls (up to 6" x 4" x 1/2") with 2 2 2 Feet exposed rusted rebar, NO MEASURABLE SECTION LOSS **General Comments** End Bent 1 Abutment **Reinforced Concrete Abutment** CS4 Total CS1 CS2 CS3 Element Number Element Name Qty Qty Qty Qty Qty 215 **Reinforced Concrete Abutment** 52 50 2 0 0 Feet Element Maint **Defect Type Defect Description** cs CS Qty Number Qty at east end, diagonal crack (full height x hairline) with water 2 2 Efflorescence/Rust Feet 215 Staining stains **General Comments** Bent 1 Cap 1 **Reinforced Concrete Pier Cap** Element Total CS1 CS2 CS3 CS4 Qty Qty Qty Number **Element Name** Qty Qty 234 Reinforced Concrete Pier Cap 42 20 0 17 5 Feet Element Maint CS Qty **Defect Type Defect Description** CS Number Qty 234 **Delamination/Spall** [PAR] SOUTH FACE AT GIRDER 4, SPALLING WITH 4 5 5 Feet EXPOSED REBAR [5' x up to full height x up to 8" deep] WITH APPROXIMATELY 20% LOSS OF BEARING AREA, NO MEASURABLE SECTION LOSS CAP FACES, SCATTERED HORIZONTAL CRACKING AND 234 Cracking (RC and 3 14 14 Feet MAP CRACKING UP TO 1/16" Other) Cracking (RC and east face, map cracking (full height x full width x 1/8") 3 1 Feet 234 Other) 234 **Delamination/Spall** SOUTH FACE AT GIRDER 2, SCATTERED SPALLING WITH 3 3 3 Feet EXPOSED REBAR [UP TO 8" X 4" X 3"], NO MEASURABLE SECTION LOSS, NO BEARING UNDERMINING **General Comments**

Structure Number: 120057

Bent 1

Reinforced Concrete Column

| Elen Num 205 | i ent i ber Reinford | Element Name ced Concrete Column | Total Qty 1 | CS1 Qty 0 | CS2 Qty 0 | CS3 Qty 0 | CS4 Qty 1 Each |
|--------------------|--|--|--|-------------------------------|-------------------------------|-------------------------------|------------------------------------|
| Element Number | Defect Type | Defect | Description | | cs | CS Qty | Maint Qty |
| 205 | Delamination/Spall | [PAR] North face, approxima 4" x 1" deep] with exposed i measurable section loss | ately 3' below cap, spall rusted reinforcing with n | [32" x o | 4 | 1 | 5 Each |
| 205 | Cracking (RC and Other) | SCATTERED THROUGHOUT WIDE | I, MAP CRACKING UP T | O 1/16" | 3 | | 6 Each |

Pile 1

General Comments

| Bent | 1 | Pile 2 | | | | | | |
|----------------------|----------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|--|
| Reinf | orced Concrete | Column | | | | | | |
| Eleme Numb 205 | ent oer Reinfor | Element Name ced Concrete Column | Total Qty 1 | CS1 Qty 0 | CS2 Qty 0 | CS3 Qty 1 | CS4 Qty 0 Each | |
| Element Number | Defect Type | Defect Des | cription | | CS | CS Qty | Maint Qty | |
| 205 C | Cracking (RC and Other) | far face at base, map cracking [| up to 0.015" wide] | | 3 | 1 | 1 Each | |
| G | eneral Comments | | | | | | | |

| Ben | nt 1 | | | Pile 3 | | | | | | |
|--------------------------|---|----------------|------------------------------------|--------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|----------------------|--|
| Reir | nford | ced Concrete | Column | | | | | | | |
| Element Number 205 | | Reinforce | Element Name ed Concrete Column | | Total Qty 1 | CS1 Qty 0 | CS2 Qty 0 | CS3 Qty 1 | CS4 Qty 0 Each | |
| Element Defect Type | | | Defect Description | | | CS | CS Qty | Maint Qty | | |
| 205 | 205 Cracking (RC and SCATTERED THR Other) WIDE | | | DUGHOUT, MAP CRAC | KING UP 1 | ГО 1/16" | 3 | 1 | 16 Each | |
| | Gene | ral Comments | | | | | | | | |
| End | l Ber | nt 1 | | Cap 1 | | | | | | |
| Reir | nford | ced Concrete I | Pier Cap | | | | | | | |
| Eler Nur | ment nber | | Element Name | | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
| 234 | | Reinforce | ed Concrete Pier Cap | | 52 | 49 | 0 | 3 | 0 Feet | |
| Elemen Numbe | nt er | Defect Type | | Defect Description | | | CS | CS Qty | Maint Qty | |

| lumber | Defect Type | Defect Description | 65 | CS Qty | Qty | | |
|--------|--------------------|---|----|--------|-----|------|--|
| 234 | Delamination/Spall | [PAR] LEFT OUTBOARD END AT THE TOP EXTENDING TO | 3 | 3 | 3 | Feet | |
| | | DELAMINATION AND HORIZONTAL CRACKING TO 1/4" WIDE JAPPROXIMATELY 3' LONG X UP TO 1' WIDE X UP TO | | | | | |
| | | 3" DEEP] WITH FLAKING RUST AND PITTING UP TO 1/16" DEEP, APPROXIMATELY 5% LOSS OF BEARING AREA | | | | | |

General Comments

Structure Number: 120057

Bent 2

Reinforced Concrete Pier Cap

| Elen Num | nent iber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------------|--------------------|---|--|------------|------------|------------|--------------|------|
| 234 | Reinford | ed Concrete Pier Cap | 42 | 35 | 2 | 0 | 5 Fe | ət |
| Element Number | Defect Type | Defect Descri | ption | | CS | CS Qty | Maint Qty | |
| 234 | Delamination/Spall | [PAR] north face at bay 2, spall (5' exposed rusted rebar [section los | x 10" x 1.75") with s up to 1/8"] | | 4 | 5 | 5 | Feet |
| 234 | Delamination/Spall | north face under beam 2, (2) spalls exposed rusted rebar, NO MEASU | s (up to 4" x 5" x 1") RABLE SECTION LO | with SS | 2 | 2 | 2 | Feet |

General Comments

Bent 2

Pile 1

Cap 1

Reinforced Concrete Column

| Elen Nun | nent 1ber | Element Name | Total Qty | CS1 Qty | CS2 Qty | CS3 Qty | CS4 Qty | |
|-------------|----------------------------|--|----------------|------------|------------|------------|--------------|--|
| 205 | Reinfor | ced Concrete Column | 1 | 0 | 1 | 0 | 0 Each | |
| Elemen | t Defect Type | Defect Description | | | CS | CS Qty | Maint Qty | |
| 205 | Abrasion/Wear (PSC/RC) | AT THE WATERLINE, ABRASION | | | 2 | 1 | Each | |
| 205 | Cracking (RC and Other) | south face near base, map cracking (3' x | 4' x hairline) | | 1 | | Each | |
| - | General Comments | | | | | | | |

Bent 2 Pile 2 **Reinforced Concrete Column** Element Total CS1 CS2 CS3 CS4 **Element Name** Qty Number Qty Qty Qty Qty 205 0 Each Reinforced Concrete Column 0 1 0 1 Element Maint Defect Type **Defect Description** cs CS Qty Number Qty Abrasion/Wear (PSC/RC) AT THE WATERLINE, ABRASION 205 2 1 Each **General Comments**

| Bent | 2 | Pile 3 | | | | | | |
|--------------------|---------------------------|----------------------------|-------------------|-------------------------------|------------|-------------------------------|----------------------|--|
| Rein | forced Concrete | Column | | | | | | |
| Elem Num 205 | ent ber Reinfor | Element Name | Total Qty 1 | CS1 Qty 0 | CS2 Qty | CS3 Qty 0 | CS4 Qty 0 Fach | |
| Element | Defect Type | Defect Desci | ription | Ũ | CS | CS Qty | Maint | |
| 205 | Abrasion/Wear (PSC/RC) | AT THE WATERLINE, ABRASION | | | 2 | 1 | Each | |

End Bent 2

Reinforced Concrete Abutment

| Eler | nent nber | Flement Name | Total Otv | CS1 Otv | CS2 Otv | CS3 Otv | CS4 Otv | |
|-----------------|----------------------------|---|---|------------|------------|------------|--------------|--|
| 245 | Deinfer | and Concrete Abutment | 50 | 40 | QUY | 10 | | |
| 215 | Reinion | | 52 | 42 | 0 | 10 | 0 Feel | |
| Elemen Numbe | t r Defect Type | Defect De | scription | | CS | CS Qty | Maint Qty | |
| 215 | Cracking (RC and Other) | at west end, map cracking (5' > east end) WITH EFFLORESCEI | c 3' x up to 1/8") (simil NCE STAINING | ar at | 3 | 10 | 10 Feet | |
| - | General Comments | | | | | | | |
| End | Bent 2 | Cap 1 | | | | | | |
| Reir | nforced Concrete | Pier Cap | | | | | | |
| Eler | nent | | Total | CS1 | CS2 | CS3 | CS4 | |
| Nun | nber | Element Name | Qty | Qty | Qty | Qty | Qty | |
| 234 | Reinfor | ced Concrete Pier Cap | 52 | 39 | 8 | 5 | 0 Feet | |
| Elemen Numbe | t r Defect Type | Defect De | scription | | CS | CS Qty | Maint Qty | |
| 234 | Cracking (RC and Other) | CAP FACE under beam 4, APP horizontal crack (5' x up to 1/8' | ROXIMATELY 8" DOV ") | VN, | 3 | 5 | 5 Feet | |
| 234 | Cracking (RC and Other) | under beam 3, (3) diagonal and 0.012"] | d horizontal cracks [u | p to 3' x | 2 | 8 | Feet | |
| - | General Comments | | | | | | | |

Abutment

Elements Verfied

| Location | Name | Component | Element Name | Amount |
|------------|-------------------|------------------------------|--------------------------------------|--------|
| Span 1 | Deck | Reinforced Concrete Deck | Reinforced Concrete Deck | 1907 |
| Span 1 | Beam 1 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 1 | Beam 2 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 1 | Beam 3 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 1 | Beam 4 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 1 | Left Bridge Rail | Concrete Railing | Reinforced Concrete Bridge Railing | 58 |
| Span 1 | Right Bridge Rail | Concrete Railing | Reinforced Concrete Bridge Railing | 58 |
| Span 1 | Wearing Surface | Asphalt Wearing Surface | Wearing Surface | 1606 |
| Span 2 | Deck | Reinforced Concrete Deck | Reinforced Concrete Deck | 1901 |
| Span 2 | Beam 1 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 2 | Beam 2 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 2 | Beam 3 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 2 | Beam 4 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 2 | Left Bridge Rail | Concrete Railing | Reinforced Concrete Bridge Railing | 58 |
| Span 2 | Right Bridge Rail | Concrete Railing | Reinforced Concrete Bridge Railing | 58 |
| Span 2 | Wearing Surface | Asphalt Wearing Surface | Wearing Surface | 1601 |
| Span 3 | Deck | Reinforced Concrete Deck | Reinforced Concrete Deck | 1907 |
| Span 3 | Beam 1 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 3 | Beam 2 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 3 | Beam 3 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 3 | Beam 4 | Reinforced Concrete Girder | Reinforced Concrete Open Girder/Beam | 58 |
| Span 3 | Left Bridge Rail | Concrete Railing | Reinforced Concrete Bridge Railing | 58 |
| Span 3 | Right Bridge Rail | Concrete Railing | Reinforced Concrete Bridge Railing | 58 |
| Span 3 | Wearing Surface | Asphalt Wearing Surface | Wearing Surface | 1606 |
| Bent 1 | Cap 1 | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap | 42 |
| Bent 1 | Pile 1 | Reinforced Concrete Column | Reinforced Concrete Column | 1 |
| Bent 1 | Pile 2 | Reinforced Concrete Column | Reinforced Concrete Column | 1 |
| Bent 1 | Pile 3 | Reinforced Concrete Column | Reinforced Concrete Column | 1 |
| End Bent 1 | Cap 1 | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap | 52 |
| End Bent 1 | Abutment | Reinforced Concrete Abutment | Reinforced Concrete Abutment | 52 |
| Bent 2 | Cap 1 | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap | 42 |
| Bent 2 | Pile 1 | Reinforced Concrete Column | Reinforced Concrete Column | 1 |
| Bent 2 | Pile 2 | Reinforced Concrete Column | Reinforced Concrete Column | 1 |
| Bent 2 | Pile 3 | Reinforced Concrete Column | Reinforced Concrete Column | 1 |
| End Bent 2 | Cap 1 | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap | 52 |
| End Bent 2 | Abutment | Reinforced Concrete Abutment | Reinforced Concrete Abutment | 52 |

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 120057

Inspection Date: 05/05/2021

National Bridge Inventory Items

| Item | Grade Scale | Grade |
|---|-------------|-------|
| Item 58: Deck | 0 - 9 , N | 7 |
| Item 59: Superstructure | 0 - 9 , N | 7 |
| Item 60: Substructure | 0 - 9 , N | 4 |
| Item 61: Channel and Channel Protection | 0 - 9 , N | 5 |
| Item 62: Culvert | 0 - 9 , N | N |
| Item 71: Waterway Adequacy | 0 - 9 , N | 7 |
| Item 72: Approach Roadway Alignment | 0 - 9 , N | 8 |

Note: If NBI Inspection Item is not present, code NBI item with "N"

NC SMU Inspection Items

| ltem | Grade Scale | Grade | Maint. Qty. | Maint. Code |
|---------------------------|---------------|-------|-------------|-------------|
| Deck Debris | G, F, P, or C | F | 5700 | 3376 |
| Drainage System | G, F, P, or C | F | 20 | 3332 |
| Utilities | G, F, P, or C | | | |
| Slope Protection | G, F, P, or C | G | 0 | 3352 |
| Scour | G, F, P, or C | F | | |
| Wingwall | G, F, P, or C | F | 6 | 3350 |
| Field Scour Evaluation | | L | | |
| Drift | G, F, P, or C | F | 20 | 3366 |
| Fender System | G, F, P, or C | | | |
| Movable Span Machinery | G, F, P, or C | | | |
| Response to Live Load | G, F, P, or C | G | | |
| Superstructure Paint Code | | | | |

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

Inspection Information

| Item | Grade Scale | Grade |
|--|-------------|-------|
| Sign Noticed Issued | YES/NO | N |
| Priority Maintenance Request Submitted | YES/NO | Y |
| Inspection Time | Hours | 6 |
| Traffic Control Time | Hours | |
| Snooper Time | Hours | |
| Ladder Used | YES/NO | Y |
| Bucket Truck Used | YES/NO | N |
| Boat Used | YES/NO | N |
| Other Equipment Used | YES/NO | Y |
| Portion of Structure in > 3' of water | YES/NO | N |

National Bridge and NC SMU Inspection Item Details

| | | | | | - - - - - - - - - |
|---------|--|------------------------------|------------------------------|-----------|--------------------------|
| ltem | Deck - Item 58 | Grade 7 | Maint Code | Qty. | 0 |
| Details | reinforced concrete rails/curbs: the rails and curb | os are weathered through | out with exposed coarse a | aggregat | e |
| ltem | Substructure - Item 60 | Grade 4 | Maint Code | Qty. | 0 |
| Details | widespread spalling and exposed reinforcing with stem pier walls | h section loss and loss of | bearing area, wide crack | s in pier | caps and sol |
| ltem | Channel and Channel Protection - Item 61 | Grade 5 | Maint Code | Qty. | 0 |
| Details | no slope protection in place with extensive stream | mbank scour adjacent to i | nterior piers | | |
| ltem | Other Equipment Used | Grade Y | Maint Code | Qty. | 0 |
| Details | waders | | | | |
| ltem | Deck Debris | Grade F | Maint Code 3376 | Qty. | 5700 |
| Details | along both curblines, sand accumulation with clo | gged deck drains | | | |
| ltem | Drainage System | Grade F | Maint Code 3332 | Qty. | 20 |
| Details | see deck debris | | | | |
| ltem | Drift | Grade F | Maint Code 3366 | Qty. | 20 |
| Details | drift in channel adjacent to the interior piers, up to | o 12" diameter | | | |
| ltem | Scour | Grade F | Maint Code | Qty. | 0 |
| Details | bent 2 near face from pile 2 to pile 3, localized so | cour along face [25' long > | (up to 6' wide x up to 2' d | eep] | |
| ltem | Wingwalls | Grade F | Maint Code 3350 | Qty. | 6 |
| Details | Northwest corner, outboard end at the top, map | cracking up to 1/16" wide | with scaling to 0.5" deep | | |
| ltem | General Comments and Misc Items | Grade | Maint Code | Qty. | 0 |
| Details | extensive erosion on stream side of slope protect | tion with gullies up to 5' d | een | | |

Date: 05/05/2021

Condition Photos



Bent 1 Cap 1: [PAR] SOUTH FACE AT GIRDER 4, SPALLING WITH EXPOSED REBAR [5' x up to full height x up to 8' deep] WITH APPROXIMATELY 20% LOSS OF BEARING AREA, NO MEASURABLE SECTION LOSS



Bent 1 Pile 1: [PAR] North face, approximately 3' below cap, spall [32" x 4" x 1" deep] with exposed rusted reinforcing with no measurable section loss

Date: 05/05/2021

Condition Photos



End Bent 1 Cap 1: [PAR] LEFT OUTBOARD END AT THE TOP EXTENDING TO GIRDER 1, SPALLING WITH EXPOSED REBAR, DELAMINATION AND HORIZONTAL CRACKING TO 1/4" WIDE [APPROXIMATELY 3' LONG X UP TO 1' WIDE X UP TO 3" DEEP] WITH FLAKING RUST AND PITTING UP TO 1/16" DEEP, APPROXIMATELY 5% LOSS OF BEARING AREA

Date: 05/05/2021

Condition Photos



Bent 2 Cap 1: [PAR] north face at bay 2, spall (5' x 10" x 1.75") with exposed rusted rebar [section loss up to 1/8"]



Bent 2 Cap 1: [PAR] north face at bay 2, spall (5' x 10" x 1.75") with exposed rusted rebar [section loss up to 1/8"]

Date: 05/05/2021

Condition Photos



Bent 2 Cap 1: [PAR] north face at bay 2, spall (5' x 10" x 1.75") with exposed rusted rebar [section loss up to 1/8"]



deck debris



Span 1 Wearing Surface: AT THE SPAN ENDS, SCATTERED TRANSVERSE CRACKING UP TO 1" WIDE



Span 1 Right Bridge Rail: near bent 1, (3) spalls (up to 15" x 5" x 1") with exposed rusted rebar, [loss up to 1/8"]

Date: 05/05/2021

Condition Photos



Span 2 Deck: underside east overhang at bent 1, spalls (up to 1' x 8" x 1") with exposed rusted rebar, NO MEASURABLE SECTION LOSS

Date: 05/05/2021

Condition Photos



Span 2 Beam 1: GIRDER END AT BENT 1, LEFT SIDE AT THE TOP, SPALL WITH EXPOSED REBAR [APPROXIMATELY 18" DIAMETER X UP TO 3/4" DEEP], NO MEASURABLE SECTION LOSS. adjacent delamination [2'I x up to 18" high]

Date: 05/05/2021

Condition Photos



Span 2 Left Bridge Rail: exterior face at 13ft from bent 1, (3) spalls (up to 15" x 4" x 1") with exposed rusted rebar, NO MEASURABLE SECTION LOSS



Span 3 Beam 1: along exterior face multiple vertical and diagonal cracks (full height x 0.02")

Date: 05/05/2021

Condition Photos



Bent 1 Cap 1: east face, map cracking (full height x full width x 1/8")



bent 2 near face from pile 2 to pile 3, localized scour along face [25' long x up to 6' wide x up to 2' deep]

Stream Bed Soundings (Profile diagram on following sheet)

County CABARRUS

Structure Number: 120057

Inspection Date 05/05/2021

Sounding recorded from: Top of Bridge Rail

Highwater Mark Distance

Location of Highwater Mark

| Distance (Station) ft. | Downstream Sounding ft. | Upstream Sounding ft. | Description |
|---------------------------|----------------------------|--------------------------|------------------|
| 0.000 | 3.250 | 0.000 | fill face |
| 1.500 | 3.250 | 0.000 | face of backwall |
| 1.510 | 8.900 | 0.000 | cap at backwall |
| 4.500 | 8.900 | 0.000 | face of cap |
| 4.510 | 10.300 | 9.400 | ground at cap |
| 11.000 | 11.100 | 0.000 | slope |
| 27.000 | 15.200 | 0.000 | slope |
| 46.000 | 15.800 | 0.000 | slope |
| 59.500 | 21.300 | 24.300 | bent 1 |
| 66.500 | 22.800 | 0.000 | slope |
| 68.000 | 25.200 | 0.000 | slope |
| 93.000 | 25.100 | 0.000 | wswe |
| 102.000 | 25.700 | 25.400 | streambed |
| 116.750 | 25.700 | 25.400 | bent 2 |
| 118.500 | 24.900 | 0.000 | wswe |
| 135.000 | 21.100 | 0.000 | slope |
| 150.000 | 15.800 | 0.000 | slope |
| 169.750 | 9.900 | 10.200 | ground at cap |
| 169.760 | 8.800 | 0.000 | face of cap |
| 170.990 | 8.800 | 0.000 | cap at backwall |
| 171.000 | 2.900 | 0.000 | face of backwall |
| 172.500 | 2.900 | 0.000 | fill face |



Structure Data Worksheet



| Span Number | Span Length | Bearing to Bearing | Crutch/ Helper Bent | Distance to Near Bearing | Distance to Far Bearing |
|----------------|----------------|-----------------------|------------------------|-----------------------------|----------------------------|
| 1 | 57.333 | 55.330 | | | |
| 2 | 57.167 | 55.670 | | | |
| 3 | 57.333 | 55.330 | | | |

Date: 05/05/2021

Structure Photos



looking north



south approach roadway

County: CABARRUS

Date: 05/05/2021

Structure Photos



looking upstream west from bridge



north appraoch roadway

Date: 05/05/2021

Structure Photos



looking south



left bridge rail

Date: 05/05/2021



looking downstream east from bridge



typical asphalt wearing surface

County: CABARRUS

Date: 05/05/2021

Structure Photos



profile looking West



profile looking East

<image>

 Structure:
 120057
 County:
 CABARRUS
 Date:
 05/05/2021
 Structure Photos

looking upstream from channel



looking downstream from channel



overhead utility at right shoulder



typical superstructure framing

Date: 05/05/2021

Structure Photos



typical deck drain



typical deck drain

Date: 05/05/2021



typical underside of deck



typical interior diaphragm

Date: 05/05/2021

Structure Photos



typical end diaphragm



typical beam over interior bent

County: CABARRUS

Date: 05/05/2021



typical guardrail transition post spacing



Southeast guardrail continuous

County: CABARRUS

Date: 05/05/2021



Southwest guardrail end treatment



Northwest guardrail end treatment

County: CABARRUS

Date: 05/05/2021



Northeast guardrail end treatment



Southeast guardrail attachment, typical all guardrail attachment

County: CABARRUS

Date: 05/05/2021



Southeast wingwall, typical all wingwall



asphalt over end bent 1

Date: 05/05/2021

Structure Photos



asphalt over bent 1



asphalt over bent 2

County: CABARRUS

Date: 05/05/2021



end bent 1



Date: 05/05/2021



bent 2



asphalt over end bent 2

Date: 05/05/2021

Structure Photos



end bent 2

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 120057 County CABARRUS Date: These Repairs Should Be Made Within Twelve Months From Date Of This Inspection MMS Description of Unit Quantity Remarks Est. Code Function Cost 0 3348 LF 3 Maintain End Bent 1 Cap 1: [PAR] LEFT Concrete OUTBOARD END AT THE TOP EXTENDING TO GIRDER 1, SPALLING Substructure Components WITH EXPOSED REBAR, DELAMINATION AND HORIZONTAL CRACKING TO 1/4" WIDE [APPROXIMATELY 3' LONG X UP TO 1' WIDE X UP TO 3" DEEP] WITH FLAKING RUST AND PITTING UP TO 1/16" DEEP, **APPROXIMATELY 5% LOSS OF BEARING AREA** 🔍 3348 Bent 1 Cap 1: [PAR] SOUTH FACE AT LF 5 Maintain Concrete **GIRDER 4, SPALLING WITH EXPOSED** Substructure REBAR [5' x up to full height x up to 8" Components deep] WITH APPROXIMATELY 20% LOSS OF BEARING AREA. NO MEASURABLE SECTION LOSS LF 5 🔍 3348 Maintain Bent 1 Pile 1: [PAR] North face, Concrete approximately 3' below cap, spall [32" x 4" Substructure x 1" deep] with exposed rusted reinforcing Components with no measurable section loss 💐 3348 Maintain LF 5 Bent 2 Cap 1: [PAR] north face at bay 2, spall (5' x 10" x 1.75") with exposed rusted Concrete Substructure rebar [section loss up to 1/8"] Components

0



BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 120057

LOSS OF BEARING AREA

County CABARRUS

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

| MMS Code | MN | MMS Description | | | Quantity | |
|---|----------------|-----------------|----------------------------------|--------------|----------|----|
| 3348 | Mai | ntain Conc | crete Substructure Components | | 3 | LF |
| Location: | | | | | | |
| | | | Bent/Span No. | | | |
| Priority Leve | / Level Status | | | | | |
| Priority Main | itenan | ice | Division Bridge Maintenance Noti | fication | | |
| Submitted D |)ate: | Submitte | d By: | Assisted By: | | |
| 05/06/2021 | | Thomas | s Graham, PE | | | |
| Details | | | | | | |
| End Bent 1 Cap 1: [PAR] LEFT OUTBOARD END AT THE TOP EXTENDING TO GIRDER 1, SPALLING WITH EXPOSED REBAR, DELAMINATION AND HORIZONTAL CRACKING TO 1/4" WIDE [APPROXIMATELY 3' LONG X UP TO 1' WIDE X UP TO 3" DEEP] WITH FLAKING RUST AND PITTING UP TO 1/16" DEEP, APPROXIMATELY 5% | | | | | | |

| MMS Code | MN | MMS Description | | | Quantity | |
|-------------------|---------------|--|----------------------------------|----------|----------|----|
| 3348 | Mair | ntain Concrete Substructure Components | | | 5 | LF |
| Location: | | | | | | |
| | Bent/Span No. | | | | | |
| Priority Level St | | | Status | | | |
| Priority Main | itenano | се | Division Bridge Maintenance Noti | fication | | |
| Submitted D | ate: | Submitte | itted By: Assisted By: | | | |
| 05/06/2021 | | Thomas Graham, PE | | | | |
| Details | | | | | | |

Bent 1 Cap 1: [PAR] SOUTH FACE AT GIRDER 4, SPALLING WITH EXPOSED REBAR [5' x up to full height x up to 8" deep] WITH APPROXIMATELY 20% LOSS OF BEARING AREA, NO MEASURABLE SECTION LOSS

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 120057 Co

County CABARRUS

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

| MMS Code | MMS [| Description | | | Quantity | |
|---|----------|-------------|-----------------------------------|--------------|----------|----|
| 3348 | Maintair | in Conc | rete Substructure Components | | 5 | LF |
| Location: | | | | | | |
| | | | Bent/Span No. | | | |
| Priority Leve | el | | Status | | | |
| Priority Mair | ntenance | | Division Bridge Maintenance Notif | fication | | |
| Submitted D | Date: Su | Jbmitte | d By: | Assisted By: | | |
| 05/06/2021 | T | homas | Graham, PE | | | |
| Details | Details | | | | | |
| Bent 1 Pile 1: [PAR] North face, approximately 3' below cap, spall [32" x 4" x 1" deep] with exposed rusted reinforcing with no measurable section loss | | | | | | |

| MMS Code | MMS | IS Description | | | Quantity | |
|-----------------------|---------|--------------------------------------|--|--------------|----------|----|
| 3348 | Mainta | ain Concrete Substructure Components | | | 5 | LF |
| Location: | | | | | | |
| | | | Bent/Span No. | | | |
| Priority Level Status | | Status | | | | |
| Priority Main | tenance | | Division Bridge Maintenance Notification | | | |
| Submitted D | ate: S | : Submitted By: | | Assisted By: | | |
| 05/06/2021 | T | Thomas Graham, PE | | | | |
| Details | | | | | | |

Bent 2 Cap 1: [PAR] north face at bay 2, spall (5' x 10" x 1.75") with exposed rusted rebar [section loss up to 1/8"]

Bridge Inspection Field Sketch



| Roadway | 24ft Wide | 2 Paved Lanes | Looking North |
|-----------------|---------------|---------------|---------------|
| Left Shoulder | 4ft Wide | 2ft Paved | 2ft Unpaved |
| Right Shoulder | 4ft Wide | 1ft Paved | 3ft Unpaved |
| l eft Guardrail | 4ft from road | | |
| | | | |
| Right Guardrail | 4ft from road | | |

NOTE: MEASUREMENTS TAKEN AT 25FT FROM END BENT 1

| VERIFIED: TDG 5/5/21 | | | | | |
|----------------------|---------------------|--------|-----------------|------------------------|--|
| Title | | Descri | ption | | |
| APPROACH | | | SOUTH APPROACH | | |
| Bridge No: 120057 | Drawn By: P. GUFFEY | | Date:07/18/2017 | File Name: S0082000419 | |
| | | | | | |

Bridge Inspection Field Sketch

| Deck Width/Out to Out | Betwee | Between Rails | | | | | | |
|-------------------------------------|--------|---------------|-----------------|---------|---------|--|--|--|
| Clear Roadway | 28ft | Wearin | Wearing Surface | | | | | |
| Median Width | | Mediar | Median Height | | | | | |
| Curb Height | Left | 0.583ft | Right | 0.583ft | | | | |
| Sidewalk Width | Left | | Right | | | | | |
| Clear Roadway (Rail to Median) | | | | Right | | | | |
| Guardrail Width | | | 1ft | Right | 1ft | | | |
| Top of Rail to Deck/Wearing Surface | | | 3.25ft | Right | 3.25ft | | | |
| Bridge Rail | | | Type 31 | Right | Type 31 | | | |

| Measurements for Span # | 1 | SPANS 2 AND 3 SIMILAR | |
|-------------------------------|-------|-----------------------|-------|
| Deck Thickness | 0.542 | Left Overhang | 4.625 |
| Top of Rail to Bottom of Beam | 8.9 | Right Overhang | 4.625 |

| Beam Number | Beam Type | Spacing | Comments |
|-------------|----------------|---------|----------|
| 1 | RC Deck Girder | 8ft | |
| 2 | RC Deck Girder | 8ft | |
| 3 | RC Deck Girder | 8ft | |
| 4 | RC Deck Girder | ft | |



| VERIFIED: TDG 5/5/21 | | | |
|----------------------|------------------------|-----------------|-----------------------|
| Title | | Description | |
| SUPERSTRUCTURE | | TYPICAL SECTION | |
| Bridge No: 120057 | Drawn By: STEVE AUSTIN | Date:07/21/2011 | File Name:S0082000420 |
| | | | |

Bridge Inspection Field Sketch

| | | | | | 1 | | | 1 | | | | | |
|-------------|--|---------------|------------|-----------------------|----------|-----------|---|------------------------|-----------|------------|-------|--------------|-----------|
| ſ | Cap Int | formation | Height | Material | Cast-in- | Place Con | crete | L eft Br | eam to Fr | nd of Cap | Righ | t Beam to En | d of Cap |
| | 41.083 | ft 2 500 ft | 1 750 ft | 2 125 | ft | 2 875 | ft | 3.4 | 17 ft | ia or oap. | r ngn | 3 417 ft | u or oup. |
| ŀ | Subcar | o Information | | Material | | 2.0.0 | | 0.1 | | | | | |
| | Length Width Height | | | Left Overhang Right O | | Right Ove | verhang Left Pile to Splic | | ce. | | | | |
| | Sill Information Material Length Width Height | | | | | | | | | | | | |
| ſ | Pile # | Material | Spacing | Width/Dia. | Height | Length | Orie | entation | Driven? | Replacen | nent? | Removed? | Collar? |
| | 1 | Concrete | 18.417 ft. | 4 ft. | 2 ft. | | Ver | tical | No | No | | No | No |
| | 2 | Concrete | 17.667 ft. | 2.5 ft. | 2 ft. | | Ver | tical | No | No | | No | No |
| | 3 | Concrete | | 5.5 ft. | 2 ft. | | Ver | tical | No | No | | No | No |
| | VERII | FIED: TDG 5/ | 5/21 | | | | | | | | | | |
| ŀ | Bent/A | butment #· 1 | | Similar F | Bents: | 2 | | | | | | | |
| Titl SUE | e BSTRU(| | | | 201110. | [| Descri Bent f | ption PROFIL | .E | | | | |
| Brid | ridge No: 120057 Drawn By: STEVE AUSTIN | | | | | N | Date: 7/21/2011 File Name: \$0082002511 | | | | | 511 | |

