



BRIDGE INSPECTION REPORT

MUNICIPALITY: N/A TYPE INSPECTION: IN-DEPTH INSP. CYCLE: N/A

COUNTY: BEAUFORT BRIDGE NO.: 060321

ROUTE: NC306 FERRY TERMINAL ACROSS: PAMLICO SOUND

LOCATION: SOUTH END OF NC306

DESCRIPTION: APPROACH SPANS: PPC CORED SLABS; LIFT SPAN: STEEL FLOOR BEAM SYSTEM

REINFORCED CONCRETE CAP ON STEEL H-PILES

FILL FACE TO FILL FACE = 89'-3"

PRESENT CONDITION: GOOD INVENTORY RATING: NOT RATED

INSPECTION DATE: 11/2/2023 OPERATING RATING: NOT RATED

PRESENT POSTING: NOT POSTED PROPOSED POSTING: NOT RATED

ANALYSIS DATE: N/A OTHER SIGNS PRESENT: NONE

LATITUDE: 35° 22' 38.0" LONGITUDE: 76° 44' 54.1"



LOOKING NORTH

SPECIAL PERMIT: NONE

SIGN NOTICE ISSUED FOR		NUMBER REQ'D
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	SPECIAL PERMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>



COUNTY:	<u>BEAUFORT</u>
BRIDGE NO.:	<u>060321</u>
INSPECTION TEAM MEMBERS:	<u>DAN CURTIS, PE, KAREN MOBLEY, PE</u> <u>MIKE CARLTON, PE, LOGAN STEVENS, EI</u>
TEAM LEAD:	<u>DAN CURTIS, PE</u>
REPORT FINAL REVIEWER:	<u>KAREN MOBLEY, PE</u>
REPORT SUBMITTAL DATE:	<u>JANUARY 8, 2024</u>

CONDITION DESCRIPTIONS

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COUNTY: BEAUFORT

DATE: 11/2/2023

Defects represent the general condition of the structure

STRUCTURAL ELEMENT DEFECT	UNIT	QUANTITY
1. 1/2" TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE ALONG END BENT 1 FILL FACE	SF	18
2. 1/8" LONGITUDINAL AND ALLIGATOR CRACKS IN ASPHALT WEARING SURFACE AT RANDOM	SF	260
3. (2) AREAS OF MISSING ASPHALT AND JOINT MATERIAL UP TO 52" LONG X 7" WIDE AND 1/2" TRANSVERSE CRACKS IN ASPHALT OVERLAY ALONG BENT 1 JOINT	LF	18
4. (1) MISSING BOLT IN STEEL COVER PLATE ALONG BENT 2 JOINT, APPROXIMATELY 51" TO RIGHT OF GIRDER 1	EA	1
5. SPAN 2 UNIT 5: 8" X 5" X 2 1/2" DEEP SPALL WITH EXPOSED STRANDS IN END OF UNIT AT BENT 2 ADJACENT TO UNIT 6	SF	1
6. EFFLORESCENCE SEEPAGE BETWEEN UNITS IN VARIOUS LOCATIONS IN SPANS 1 AND 2	LF	72
7. HAIRLINE MAP CRACKS WITH EFFLORESCENCE THROUGHOUT TRANSVERSE POST-TENSION GROUT POCKETS ON BOTH SIDES AT MIDSPAN OF SPANS 1 AND 2	LF	4
8. AREAS OF SURFACE CORROSION AND CORROSION WITH UP TO 1/8" LOSS OF SECTION IN BOTTOM OF DECK, PRIMARILY BETWEEN FLOORBEAMS 3 THRU 6	SF	92
9. GIRDER 1: SURFACE CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE, APPROXIMATELY 5' FROM BENT 2 BEARING	LF	1
10. (8) OF (8) ANCHOR BOLTS NUTS NOT FULLY SEATED AT GIRDER 1 AND 2 BEARINGS AT BENT 2 (4 BOLTS PER BEARING)	EA	8
11. FLOORBEAMS: UP TO 1 1/2" LONG DIAGONAL HAIRLINE CRACKS IN BOTH FACES OF WEBS PROPAGATING FROM COPE RADIUS AT GIRDER CONNECTIONS IN THE FOLLOWING LOCATIONS: FLOORBEAM 1 AT GIRDER 1 FLOORBEAM 4 AT GIRDER 1 FLOORBEAM 11 AT GIRDER 1 (x2) FLOORBEAM 1 AT GIRDER 2 FLOORBEAM 9 AT GIRDER 2 FLOORBEAM 11 AT GIRDER 2	LF	6
12. FLOORBEAMS 4 AND 5: AREAS OF CORROSION ALONG BOTTOM FLANGE UP TO 13' LONG X 10 1/8" WIDE DOWN TO 5/8" RESIDUAL FLANGE (3/4" ORIGINAL THICKNESS) AT MID LENGTH	LF	25

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STRUCTURAL ELEMENT DEFECT	UNIT	QUANTITY
13. SURFACE CORROSION AND CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG FLOORBEAMS IN VARIOUS LOCATIONS, PRIMARILY IN FLOORBEAMS 3 THRU 6	SF	50
14. CORROSION WITH UP TO 50% LOSS OF SECTION THROUGHOUT DECK AND FLOORBEAM ATTACHMENT BOLTS AND NUTS IN VARIOUS LOCATIONS	EA	162
15. UP TO 8" X 1/2" DISTORTION OF U-BOLT ON NORTH SIDE AT RIGHT LIFT BEAM HYDRAULIC PISTON CONNECTION	EA	1
16. UP TO 0.016" TRANSVERSE, VERTICAL AND HORIZONTAL CRACKS AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE THROUGHOUT CONCRETE CAPS	LF	46
17. BENT 1 PILES: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 18" HIGH X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) AT BOTTOM OF CAP; TOTAL DEFECT LENGTHS PER PILE AS FOLLOWS: PILE 1: 3 LF PILE 2: 4 LF PILE 3: 2 LF PILE 4: 4 LF	LF (TOTAL)	13
18. BENT 1 PILE 3: AREA OF CORROSION ALONG NORTH FLANGE UP TO 17" HIGH X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH 5" HIGH X 1/2" WIDE LOSS OF SECTION AT BOTTOM OF CAP	LF	2
19. BENT 2 PILES: AREAS OF CORROSION ALONG BOTH FLANGES ABOVE AND BELOW WELDED PLATE REPAIRS UP TO 9" HIGH X 12" WIDE DOWN TO 1/8" RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) THROUGHOUT ALL PILES; TOTAL DEFECT LENGTHS PER PILE AS FOLLOWS: PILE 1: 4 LF PILE 2: 3 LF PILE 3: 2 LF PILE 4: 2 LF	LF (TOTAL)	11
20. BENT 2 PILES 2 THRU 4: AREAS OF CORROSION ALONG SOUTH FLANGE ABOVE WELDED PLATE REPAIRS UP TO 5 1/2" HIGH X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH 2" WIDE X 1" HIGH LOSS OF SECTION AT BOTTOM OF CAP; TOTAL DEFECT LENGTHS PER PILE AS FOLLOWS: PILE 2: 1 LF PILE 3: 1 LF PILE 4: 1 LF	LF (TOTAL)	3

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STRUCTURAL ELEMENT DEFECT	UNIT	QUANTITY
21. BENT 2 PILES 1 AND 3: AREAS OF CORROSION ALONG EDGES OF SOUTH FLANGE UP TO 36" HIGH X 6" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH 2 1/2" HIGH AND 1" WIDE LOSS OF SECTION NEAR BOTTOM OF CAP PILE 1: 3 LF PILE 3: 3 LF	LF (TOTAL)	6
22. BENT 2 PILES: WELDED PLATE REPAIRS ALONG BOTH FLANGES UP TO 31" HIGH X 6" WIDE X 1/2" THICK THROUGHOUT ALL PILES NEAR BOTTOM OF CAP	LF	29
23. AREAS OF SURFACE CORROSION THROUGHOUT GANTRY TOP CAP AND PULLEY CONNECTION CROSS BEAMS IN VARIOUS LOCATIONS	LF	47
24. GANTRY TOP CAP: (2) AREAS OF DISTORTION UP TO 7" X 1/8" - (1) ALONG SOUTH EDGE OF TOP FLANGE TO LEFT OF PULLEY 2 CROSS BEAM, AND (1) ALONG NORTH EDGE TO LEFT OF PILE 4	LF	2
25. PULLEY 3 CROSS BEAM: 10" LONG X 3 3/4" WIDE AREA OF CORROSION WITH 1/16" LOSS OF SECTION IN BOTTOM OF TOP FLANGE ON LEFT SIDE EXTENDING FROM SOUTH END	LF	1
26. CORROSION WITH UP TO 100% LOSS OF SECTION THROUGHOUT CROSS BEAM AND PULLEY ATTACHMENT BOLTS AND NUTS IN VARIOUS LOCATIONS	EA	12
27. LIFT BENT PILES 2 THRU 6: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 32" LONG X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) BETWEEN BRACING AND WATERLINE IN VARIOUS LOCATIONS PILE 2: 1 LF PILE 4: 4 LF PILE 6: 2 LF PILE 3: 5 LF PILE 5: 3 LF	LF (TOTAL)	15
28. LIFT BENT PILES: WELDED PLATE REPAIRS ALONG FLANGES AND WEBS UP TO 36" HIGH X 6" WIDE X 1/2" THICK THROUGHOUT PILES FROM BRACING TO WATERLINE	LF	41
29. LIFT BENT PILE BRACING: AREAS OF CORROSION ALONG BOTH FLANGES NEAR WATERLINE UP TO 46" LONG X 3" HIGH DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH UP TO 30" LONG X 1/2" HIGH LOSS OF SECTION IN VARIOUS LOCATIONS	LF	25
30. LIFT BENT PILE BRACING: WELDED PLATE REPAIRS ALONG BOTH FLANGES NEAR WATERLINE UP TO 33" LONG X 6" HIGH IN VARIOUS LOCATIONS	LF	9

CONDITION DESCRIPTIONS

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MECHANICAL / ELECTRICAL ELEMENT DEFECT

UNIT

QUANTITY

MECHANICAL ELEMENTS

1. LEAKING SEAL ON WEST HYDRAULIC CYLINDER ROD	EA	1
2. COUNTERWEIGHT SHEAVE RUBBING ON GREASE LINE AT SOUTHEAST OUTER CABLE	EA	1
3. HYDRAULIC CYLINDER COTTER PINS BROKEN OR INCORRECTLY INSTALLED	EA	4
4. HYDRAULIC HARD PIPING CORRODED, MISSING CLAMPS OR RUBBING ON SUPPORT	EA	2

ELECTRICAL ELEMENTS

1. LIGHT AND GLOBE MISSING FROM AREA LIGHTING	EA	1
2. FLEXIBLE CONDUITS PULLED OUT, SUPPORT CLAMPS BROKEN OR HELD UP BY ZIP TIES	EA	7
3. LIGHT ELECTRICAL WIRES NOT IN CONDUIT	EA	1
4. UNTERMINATED GROUND WIRE IN JUNCTION BOX	EA	1
5. DEBRIS IN JUNCTION BOXES	EA	2
6. BURNT CONNECTOR ON HPU CAPACITOR	EA	1

MAINTENANCE RECOMMENDATIONS

BRIDGE NO.: 060321

COUNTY: BEAUFORT

DATE: 11/2/2023

5-10 YEAR SERVICE LIFE EXTENSION

REPAIR RECOMMENDATIONS	UNIT	QUANTITY
STRUCTURAL ELEMENTS		
1. REPLACE BENT 1 JOINT	LF	18
2. REPAIR SPALL WITH EXPOSED STRANDS IN SPAN 2 UNIT 5	LF	1
3. REPAIR CRACKS IN FLOORBEAMS AT GIRDER CONNECTIONS	LF	6
4. REPAIR PILES WITH AREAS OF 100% SECTION LOSS	LF	11
BENT 1 PILE 3 NORTH FLANGE: 2 LF		
BENT 2 PILE 1 SOUTH FLANGE: 3 LF		
BENT 2 PILE 2 SOUTH FLANGE: 1 LF		
BENT 2 PILE 3 SOUTH FLANGE: 1 LF		
BENT 2 PILE 4 SOUTH FLANGE: 1 LF		
	(TOTAL)	
5. REPAIR PILES WITH ANY MEASURABLE LOSS OF SECTION IN FLANGES	LF	39
BENT 1 PILES: 13 LF		
BENT 2 PILES: 11 LF		
LIFT BENT PILES: 15 LF		
	(TOTAL)	
6. REPLACE CROSS BEAM AND PULLEY ATTACHMENT BOLTS AND NUTS WITH SECTION LOSS	EA	12
MECHANICAL ELEMENTS		
1. REPLACE WEST HYDRAULIC CYLINDER	EA	1
2. MOVE GREASE LINE ON COUNTERWEIGHT SHEAVE AT SOUTHEAST OUTER CABLE	EA	1
3. REPLACE BROKEN AND INCORRECTLY INSTALLED HYDRAULIC CYLINDER COTTER PINS	EA	4
4. REPLACE CORRODED FITTINGS ON HYDRAULIC HARD PIPING AND PROPERLY SECURE	EA	2

MAINTENANCE RECOMMENDATIONS

BRIDGE NO.: 060321

COUNTY: BEAUFORT

DATE: 11/2/2023

5-10 YEAR SERVICE LIFE EXTENSION - CONTINUED

REPAIR RECOMMENDATIONS	UNIT	QUANTITY
<u>ELECTRICAL ELEMENTS</u>		
1. REPLACE LIGHT AND GLOBE FOR AREA LIGHTING	EA	1
2. REPAIR ALL PULLED OUT FLEXIBLE CONDUITS FROM FITTING AND PROPERLY SUPPORT CONDUITS	EA	7
3. INSTALL CONDUIT FOR LIGHT FIXTURE	EA	1
4. PROPERLY TERMINATE GROUND WIRE IN JUNCTION BOX	EA	1
5. CLEAN INTERIOR OF JUNCTION BOXES AND REPLACE SEALS, OR REPLACE JUNCTION BOXES AS REQUIRED	EA	2
6. REPLACE BURNT CONNECTOR ON HPU CAPACITOR	EA	1

MAINTENANCE RECOMMENDATIONS

BRIDGE NO.: 060321

COUNTY: BEAUFORT

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25-30 YEAR SERVICE LIFE EXTENSION

REPAIR RECOMMENDATIONS

UNIT

QUANTITY

STRUCTURAL ELEMENTS

(ALL REPAIRS LISTED UNDER 5-10 LIFE EXTENSION PLUS THE FOLLOWING)

- | | | |
|---|---------|------|
| 1. SEAL CRACKS IN ASPHALT WEARING SURFACE IN SPANS 1 AND 2 | LF | 260 |
| 2. REPLACE MISSING BOLT IN STEEL COVER PLATE ALONG BENT 2 JOINT | EA | 1 |
| 3. CLEAN AND PAINT ALL STEEL SUPERSTRUCTURE ELEMENTS | SF | 1955 |
| BOTTOM OF DECK: 560 SF | (TOTAL) | |
| GIRDERS: 566 SF | | |
| FLOORBEAMS: 704 SF | | |
| LIFTBEAM: 119 SF | | |
| BEARINGS: 6 SF | | |
| 4. CLEAN AND PAINT ALL STEEL GANTRY ELEMENTS | SF | 1106 |
| GANTRY TOP CAP AND CROSS BEAMS: 242 SF | (TOTAL) | |
| PILES AND PILE BRACING: 864 SF | | |
| 5. REPLACE DECK AND FLOORBEAM ATTACHMENT BOLTS AND NUTS WITH SECTION LOSS | EA | 162 |

MECHANICAL ELEMENTS

- | | | |
|---|----|---|
| 1. REPLACE THE HYDRAULIC SYSTEM, INCLUDING HYDRAULIC POWER UNIT, PIPING AND CYLINDERS | EA | 1 |
|---|----|---|

ELECTRICAL ELEMENTS

- | | | |
|---|----|---|
| 1. REPLACE THE ELECTRICAL SYSTEM, INCLUDING CONDUIT, JUNCTION BOXES, AND MAIN POWER FEEDS | EA | 1 |
|---|----|---|

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CONDITION PHOTOS

(SUPPORTING DOCUMENTATION FOR NOTED DEFECTS)

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1/2" TRANSVERSE CRACKS IN ASPHALT WEARING SURFACE ALONG END BENT 1 FILL FACE



1/8" LONGITUDINAL AND ALLIGATOR CRACKS IN ASPHALT WEARING SURFACE AT RANDOM,
CRACKS IN SPAN 1 SHOWN

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(2) AREAS OF MISSING ASPHALT AND JOINT MATERIAL UP TO 52" LONG X 7" WIDE AND 1/2" TRANSVERSE CRACKS IN ASPHALT OVERLAY ALONG BENT 1 JOINT



(1) MISSING BOLT IN STEEL COVER PLATE ALONG BENT 2 JOINT, APPROXIMATELY 51" TO RIGHT OF GIRDER 1

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SPAN 2 UNIT 5: 8" X 5" X 2 1/2" DEEP SPALL WITH EXPOSED STRANDS IN END OF UNIT AT BENT 2 ADJACENT TO UNIT 6



EFFLORESCENCE SEEPAGE BETWEEN UNITS IN VARIOUS LOCATIONS IN SPANS 1 AND 2

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HAIRLINE MAP CRACKS WITH EFFLORESCENCE THROUGHOUT TRANSVERSE POST-TENSION GROUT POCKETS ON BOTH SIDES AT MIDSPAN OF SPANS 1 AND 2



AREAS OF SURFACE CORROSION AND CORROSION WITH UP TO 1/8" LOSS OF SECTION IN BOTTOM OF DECK PRIMARILY BETWEEN FLOORBEAMS 3 THRU 6

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GIRDER 1: SURFACE CORROSION ALONG RIGHT EDGE OF BOTTOM FLANGE, APPROXIMATELY 5' FROM BENT 2 BEARING



(8) OF (8) ANCHOR BOLT NUTS NOT FULLY SEATED AT GIRDER 1 AND 2 BEARINGS AT BENT 2 (4 BOLTS PER BEARING), GIRDER 1 BEARING SHOWN

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FLOORBEAM 9: UP TO 1 1/2" LONG DIAGONAL HAIRLINE CRACKS IN BOTH FACES OF WEB PROPAGATING FROM COPE RADIUS AT GIRDER 2 CONNECTION, NORTH FACE SHOWN



FLOORBEAM 11: (2) DIAGONAL HAIRLINE CRACKS UP TO 1/2" LONG IN BOTH FACES OF WEB PROPAGATING FROM COPE RADIUS AT GIRDER 1 CONNECTION, NORTH FACE SHOWN

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FLOORBEAMS 4 AND 5: AREAS OF CORROSION ALONG BOTTOM FLANGE UP TO 13' LONG X 10 1/8" WIDE DOWN TO 5/8" RESIDUAL FLANGE (3/4" ORIGINAL THICKNESS) AT MID LENGTH, FLOORBEAM 4 NORTH FACE SHOWN



SURFACE CORROSION AND CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG FLOORBEAMS IN VARIOUS LOCATIONS, PRIMARILY IN FLOORBEAMS 3 THRU 6, FLOORBEAM 5 SOUTH FACE SHOWN

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CORROSION WITH UP TO 50% LOSS OF SECTION THROUGHOUT DECK AND FLOORBEAM ATTACHMENT BOLTS AND NUTS IN VARIOUS LOCATIONS, CONDITION ON NORTH SIDE OF FLOORBEAM 3 SHOWN



UP TO 8" X 1/2" DISTORTION OF U-BOLT ON NORTH SIDE AT RIGHT LIFT BEAM HYDRAULIC PISTON CONNECTION

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UP TO 0.016" TRANSVERSE, VERTICAL AND HORIZONTAL CRACKS AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE THROUGHOUT CONCRETE CAPS, NORTH FACE OF BENT 2 AT LEFT END SHOWN



BENT 1 PILES: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 18" HIGH X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) AT BOTTOM OF CAP, NORTH FACE OF PILE 4 SHOWN

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BENT 1 PILE 3: AREA OF CORROSION ALONG NORTH FLANGE UP TO 17" HIGH X 12" WIDE
DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH 5" HIGH X 1/2"
WIDE LOSS OF SECTION AT BOTTOM OF CAP



BENT 2 PILES: AREAS OF CORROSION ALONG BOTH FLANGES ABOVE AND BELOW WELDED
PLATE REPAIRS UP TO 9" HIGH X 12" WIDE DOWN TO 1/8" RESIDUAL FLANGE (9/16" ORIGINAL
THICKNESS) THROUGHOUT ALL PILES, NORTH FACE OF PILE 1 SHOWN

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BENT 2 PILES 2 THRU 4: AREAS OF CORROSION ALONG SOUTH FLANGE ABOVE WELDED PLATE REPAIRS UP TO 5 1/2" HIGH X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH 2" WIDE X 1" HIGH LOSS OF SECTION AT BOTTOM OF CAP, SOUTH FACE OF PILE 4 SHOWN



BENT 2 PILES 1 AND 3: AREAS OF CORROSION ALONG EDGES OF SOUTH FLANGE UP TO 36" HIGH X 6" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH 2 1/2" HIGH AND 1" WIDE LOSS OF SECTION NEAR BOTTOM OF CAP, LEFT SIDE OF PILE 3 SHOWN

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BENT 2 PILES: WELDED PLATE REPAIRS ALONG BOTH FLANGES UP TO 31" HIGH X 6" WIDE X 1/2" THICK THROUGHOUT ALL PILES NEAR BOTTOM OF CAP, NORTH FACE OF PILE 4 SHOWN



AREAS OF SURFACE CORROSION THROUGHOUT GANTRY TOP CAP AND PULLEY CONNECTION CROSS BEAMS IN VARIOUS LOCATIONS, CROSS BEAM AT LEFT END SHOWN

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AREAS OF SURFACE CORROSION THROUGHOUT GANTRY TOP CAP AND PULLEY CONNECTION CROSS BEAMS IN VARIOUS LOCATIONS, SOUTH FACE OF LIFT BENT CAP SHOWN



GANTRY TOP CAP: (2) AREAS OF DISTORTION UP TO 7" X 1/8" - (1) ALONG SOUTH EDGE OF TOP FLANGE TO LEFT OF PULLEY 2 CROSS BEAM, AND (1) ALONG NORTH EDGE TO LEFT OF PILE 4, CONDITION NEAR PULLY 2 CROSSBEAM SHOWN

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PULLEY 3 CROSS BEAM: 10" LONG X 3 3/4" WIDE AREA OF CORROSION WITH 1/16" LOSS OF SECTION IN BOTTOM OF TOP FLANGE ON LEFT SIDE EXTENDING FROM SOUTH END



CORROSION WITH UP TO 100% LOSS OF SECTION THROUGHOUT CROSS BEAM AND PULLEY ATTACHMENT BOLTS AND NUTS IN VARIOUS LOCATIONS

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LIFT BENT PILES 2 THRU 6: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 32" LONG X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) BETWEEN BRACING AND WATERLINE IN VARIOUS LOCATIONS, NORTH FACE OF PILE 3 SHOWN



LIFT BENT PILES 2 THRU 6: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 32" LONG X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) BETWEEN BRACING AND WATERLINE IN VARIOUS LOCATIONS, PILE 6 SOUTH FACE SHOWN

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LIFT BENT PILES: WELDED PLATE REPAIRS ALONG FLANGES AND WEBS UP TO 36" HIGH X 6" WIDE X 1/2" THICK THROUGHOUT PILES FROM BRACING TO WATERLINE, LEFT SIDE OF PILE 1 SHOWN

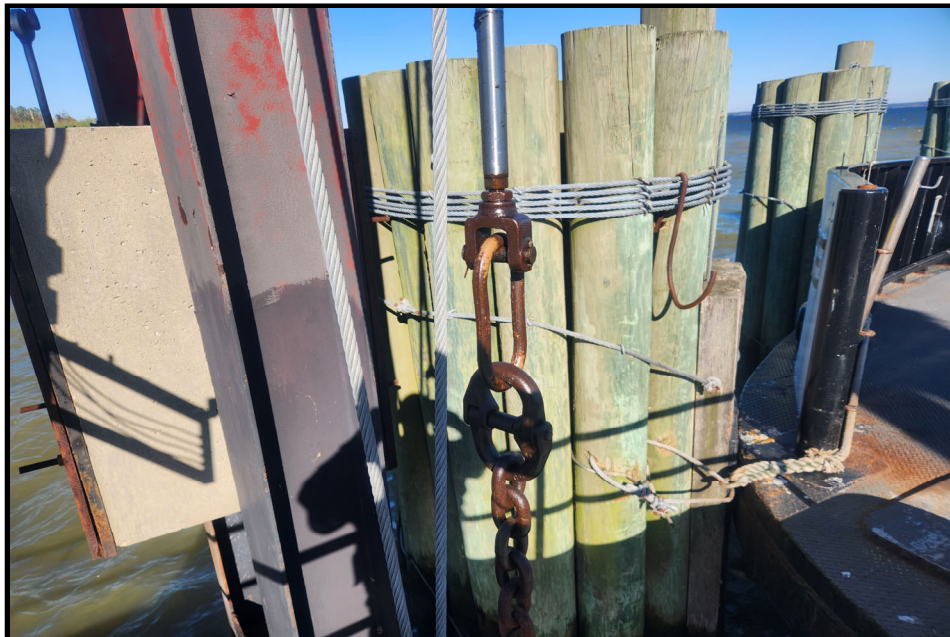


LIFT BENT PILE BRACING: AREAS OF CORROSION ALONG BOTH FLANGES NEAR WATERLINE UP TO 46" LONG X 3" HIGH DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH UP TO 30" LONG X 1/2" HIGH LOSS OF SECTION IN VARIOUS LOCATIONS, LEFT FACE OF P1-P3 BRACING SHOWN

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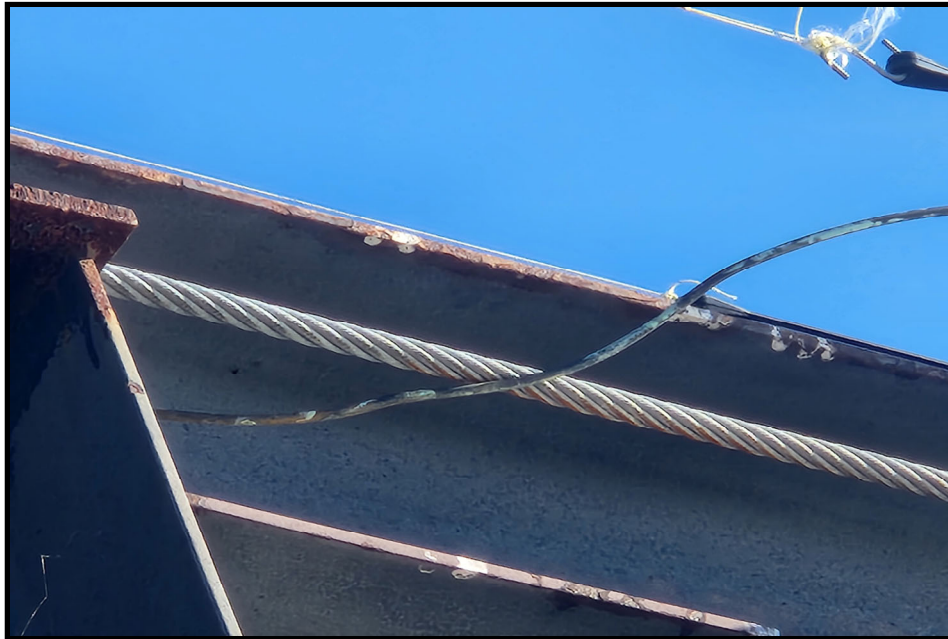


LIFT BENT PILE BRACING: WELDED PLATE REPAIRS ALONG BOTH FLANGES NEAR WATERLINE UP TO 33" LONG X 6" HIGH IN VARIOUS LOCATIONS, NORTH FACE OF P5-P6 BRACING SHOWN



WEST HYDRAULIC CYLINDER LEAKING AT ROD SEAL

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SOUTHEAST OUTER COUNTERWEIGHT SHEAVE CABLE RUBBING ON GREASE LINE



EAST UPPER HYDRAULIC CYLINDER CLEVIS PIN COTTERS NOT INSTALLED CORRECTLY

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WEST UPPER HYDRAULIC CYLINDER CLEVIS PIN COTTERS NOT INSTALLED CORRECTLY



CORRODED COUPLING FITTING ON HYDRAULIC PIPING

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LIGHT BULB AND GLOBE MISSING FROM AREA LIGHTING



FLEXIBLE CONDUIT PULLED OUT OF FITTING

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FLEXIBLE CONDUIT HELD BY ZIP TIES



CONDUIT CLAMP BROKEN

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FLEXIBLE CONDUIT PULLED OUT OF FITTING



FLEXIBLE CONDUIT FITTING PULLED OUT OF JUNCTION BOX

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FLEXIBLE CONDUIT PULLED OUT OF FITTING

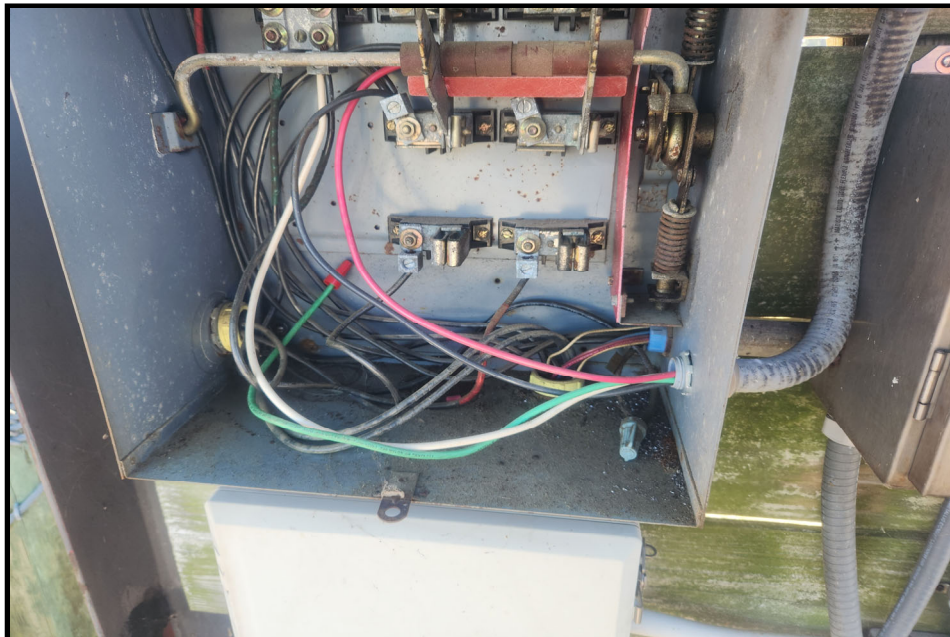


CONDUIT FITTING PULLED OUT OF JUNCTION BOX

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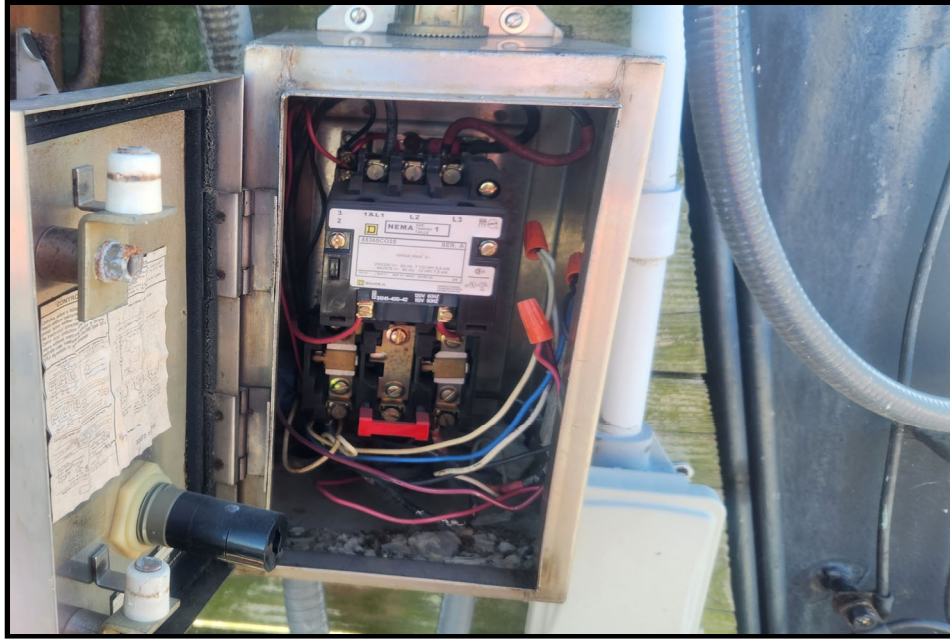


LIGHT ELECTRICAL WIRES NOT IN CONDUIT



UNTERMINATED GROUND WIRE IN JUNCTION BOX

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DEBRIS IN JUNCTION BOX



BURNT CONNECTOR ON HPU CAPACITOR

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STRUCTURE PHOTOS

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EAST PROFILE, LOOKING NORTHWEST



WEST PROFILE, LOOKING NORTHEAST

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SPAN 3 EAST PROFILE, LOOKING WEST



SPAN 2 UNDERDECK, SPAN 1 SIMILAR

BRIDGE NO.: 060321
COUNTY: BEAUFORT
DATE: 11/2/2023



SPAN 3 UNDERDECK



GIRDER 1 AND FLOORBEAM 2 CONNECTION, OTHERS SIMILAR

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GIRDER 1 BEARING AT BENT 2, GIRDER 2 BEARING SIMILAR



END BENT 1

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BENT 1



BENT 2, LOOKING SOUTH

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LIFT BENT / GANTRY, LOOKING NORTH



LIFT BENT / GANTRY, LOOKING SOUTH

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LIFT BENT / GANTRY, LOOKING NORTHEAST



PULLEY SYSTEM ON SOUTH FACE OF GANTRY ON LEFT SIDE, OTHERS SIMILAR

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PULLEY SYSTEM AND COUNTERWEIGHT CONNECTION ON SOUTH FACE OF GANTRY ON LEFT SIDE, OTHERS SIMILAR