



BRIDGE INSPECTION REPORT

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

COUNTY: BEAUFORT BRIDGE NO.: 060322

ROUTE: NC306 FERRY TERMINAL ACROSS: PAMLICO SOUND

LOCATION: 0.3 MILE SOUTH OF JUNCTION WITH NC92

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

REINFORCED CONCRETE CAP ON STEEL H-PILES

FILL FACE TO FILL FACE = 72'-7"

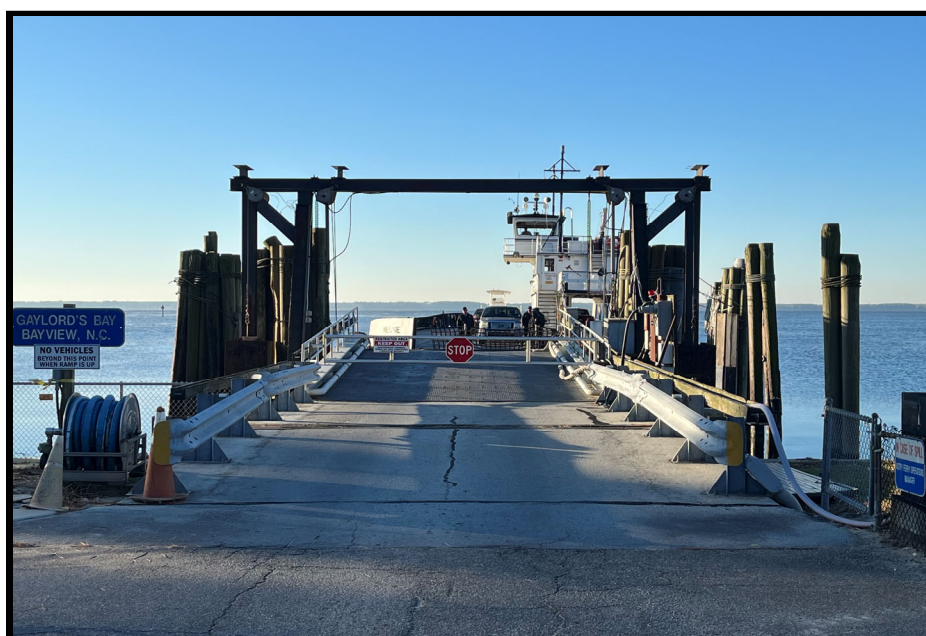
PRESENT CONDITION: GOOD INVENTORY RATING: NOT RATED

INSPECTION DATE: 11/1/2023 OPERATING RATING: NOT RATED

PRESENT POSTING: NOT POSTED PROPOSED POSTING: NOT RATED

ANALYSIS DATE: N/A OTHER SIGNS PRESENT: NONE

LATITUDE: 35° 25' 41.5" LONGITUDE: 76° 44' 26.9"



LOOKING SOUTH

SPECIAL PERMIT: NONE

SIGN NOTICE ISSUED FOR	NUMBE REQ'D
NO WEIGHT LIMIT	0
NO SPECIAL PERMIT	0
NO DELINEATORS	0
NO NARROW BRIDGE	0
NO ONE LANE BRIDGE	0
NO LOW CLEARANCE	0



COUNTY:	<u>BEAUFORT</u>
BRIDGE NO.:	<u>060322</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: 11/1/2023

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	95
3. (2) AREAS OF MISSING JOINT MATERIAL UP TO 138" LONG X 7" WIDE, AND UP TO 1 1/2" TRANSVERSE CRACKS IN ASPHALT OVERLAY ALONG BENT 1	LF	18
4. EFFLORESCENCE SEEPAGE BETWEEN UNITS IN VARIOUS LOCATIONS IN SPAN 2	SF	21
5. HAIRLINE MAP CRACKS WITH EFFLORESCENCE THROUGHOUT TRANSVERSE POST-TENSION GROUT POCKETS ON BOTH SIDES AT MIDSPAN IN SPANS 1 AND 2	LF	4
6. AREAS OF SURFACE CORROSION AND CORROSION WITH UP TO 1/8" LOSS OF SECTION IN BOTTOM OF DECK, PRIMARILY BETWEEN FLOORBEAMS 3 THRU 7	SF	110
7. AREAS OF CORROSION WITH NO MEASURABLE LOSS OF SECTION UP TO 21" LONG X 11" WIDE ALONG BOTTOM FLANGE OF GIRDERS 1 AND 2 BETWEEN FLOORBEAMS 4 AND 5	LF	4
8. GIRDER 1: 16" SECTION OF UP TO 1/8" DEEP SCRAPES ALONG TOP FLANGE 1 AT FAR END	LF	2
9. (8) OF (8) ANCHOR BOLT NUTS NOT FULLY SEATED AT GIRDER 1 AND 2 BEARINGS AT BENT 2 (4 BOLTS PER BEARING), GIRDER 2 BEARING SHOWN	EA	8
10. (4) OF (4) ANCHOR BOLTS LEANING 1/2" TO NORTH AT GIRDER 2 BEARING AT BENT 2	EA	4
11. GIRDER 1 NEAR BEARING: BROKEN WELD BETWEEN RAIL AND MASONRY PLATE ALONG ALL EDGES ALLOWING RAIL TO ROTATE TO NORTH	EA	1
12. 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:	LF	6
FLOORBEAM 1 AT GIRDER 1	FLOORBEAM 1 AT GIRDER 2	
FLOORBEAM 2 AT GIRDER 2	FLOORBEAM 3 AT GIRDER 2	
FLOORBEAM 4 AT GIRDER 1	FLOORBEAM 10 AT GIRDER 2	

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STRUCTURAL ELEMENT DEFECT	UNIT	QUANTITY
13. FLOORBEAMS 3, 4 AND 5: AREAS OF CORROSION ALONG BOTTOM FLANGE UP TO 11' LONG X 10 1/8" WIDE DOWN TO 11/16" RESIDUAL FLANGE (3/4" ORIGINAL THICKNESS) AT MID LENGTH	LF	32
14. SURFACE CORROSION AND CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG FLOORBEAMS IN VARIOUS LOCATIONS, PRIMARILY IN FLOORBEAMS 4 AND 5	SF	50
15. CORROSION WITH UP TO 100% LOSS OF SECTION THROUGHOUT DECK AND FLOORBEAM ATTACHMENT BOLTS AND NUTS IN VARIOUS LOCATIONS	EA	132
16. UP TO 0.012" TRANSVERSE, VERTICAL AND HORIZONTAL CRACKS AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE THROUGHOUT CONCRETE CAPS	LF	26
17. BENT 2 PILES: AREAS OF CORROSION ALONG BOTH FLANGES EXTENDING FROM BOTTOM OF CAP TO WATERLINE UP TO 23" HIGH X 11 3/4" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) THROUGHOUT ALL PILES; TOTAL DEFECT LENGTHS PER PILE AS FOLLOWS: PILE 1: 4 LF PILE 3: 4 LF PILE 2: 4 LF PILE 4: 4 LF	LF (TOTAL)	16
18. AREAS OF SURFACE CORROSION THROUGHOUT GANTRY TOP CAP AND PULLEY CONNECTION CROSS BEAMS IN VARIOUS LOCATIONS	LF	47
19. LIFT BENT PILES: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 28" LONG X 12" WIDE DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) BETWEEN BRACING AND WATERLINE IN VARIOUS LOCATIONS PILE 1: 4 LF PILE 3: 4 LF PILE 5: 2 LF PILE 2: 5 LF PILE 4: 5 LF PILE 6: 1 LF	LF (TOTAL)	21
20. LIFT BENT PILES: WELDED PLATE REPAIRS ALONG FLANGES AND WEBS UP TO 39" HIGH X 6" WIDE X 1/2" THICK THROUGHOUT PILES FROM BRACING TO WATERLINE	LF	24
21. LIFT BENT PILE BRACING: AREAS OF CORROSION ALONG BOTH FLANGES NEAR WATERLINE UP TO 34" LONG X 4" HIGH DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH UP TO 12" LONG X 1/2" HIGH LOSS OF SECTION IN VARIOUS LOCATIONS	LF	12

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STRUCTURAL ELEMENT DEFECT	UNIT	QUANTITY
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22. LIFT BENT PILE BRACING: WELDED PLATE REPAIRS ALONG BOTH FLANGES NEAR
WATERLINE UP TO 43 1/2" LONG X 6" HIGH IN VARIOUS LOCATIONS

LF

10

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MECHANICAL / ELECTRICAL ELEMENT DEFECT

UNIT

QUANTITY

MECHANICAL ELEMENTS

- | | | |
|---|----|---|
| 1. LEAKING SEAL ON EAST HYDRAULIC CYLINDER ROD | EA | 1 |
| 2. HYDRAULIC CYLINDER COTTER PINS BROKEN OR INCORRECTLY INSTALLED | EA | 2 |
| 3. HYDRAULIC HARD PIPING CORRODED, MISSING CLAMPS OR RUBBING ON SUPPORT | EA | 1 |

ELECTRICAL ELEMENTS

- | | | |
|--|----|---|
| 1. LIGHT ELECTRICAL WIRES NOT IN CONDUIT | EA | 1 |
| 2. CRACKED, LOOSE OR BROKEN FLEXIBLE CONDUITS | EA | 4 |
| 3. FAILED PROTECTIVE COVER SEAL ON RESET BREAKER | EA | 1 |
| 4. JUNCTION BOXES SEVERELY CORRODED AND / OR DEBRIS INSIDE | EA | 2 |
| 5. WIRES NOT LABELED OR PROPERLY LANDED IN POWER SUPPLY JUNCTION BOX | EA | 1 |

CONDITION DESCRIPTIONS

BRIDGE NO.: 060322

COUNTY: BEAUFORT

DATE: 11/1/2023

5-10 YEAR SERVICE LIFE EXTENSION

REPAIR RECOMMENDATIONS

UNIT

QUANTITY

STRUCTURAL ELEMENTS

- | | | |
|--|---------|----|
| 1. REPLACE BENT 1 JOINT | LF | 18 |
| 2. REPAIR CRACKS IN FLOORBEAMS AT GIRDER CONNECTIONS | LF | 6 |
| 3. REPAIR BROKEN WELD AT GIRDER 1 NEAR BEARING | EA | 1 |
| 4. REPAIR PILES WITH ANY MEASURABLE LOSS OF SECTION IN FLANGES | LF | 37 |
| BENT 2 PILES: 16 LF | (TOTAL) | |
| LIFT BENT PILES: 21 LF | | |

MECHANICAL ELEMENTS

- | | | |
|--|----|---|
| 1. REPLACE EAST HYDRAULIC CYLINDER ROD | EA | 1 |
| 3. REPLACE BROKEN AND INCORRECTLY INSTALLED HYDRAULIC CYLINDER COTTER PINS | EA | 2 |
| 2. REPLACE CORRODED FITTINGS ON HYDRAULIC HARD PIPING AND PROPERLY SECURE | EA | 1 |

ELECTRICAL ELEMENTS

- | | | |
|--|----|---|
| 1. INSTALL CONDUIT FOR LIGHT FIXTURE | EA | 1 |
| 2. REPLACE ALL CRACKED, LOOSE OR BROKEN FLEXIBLE CONDUITS | EA | 4 |
| 3. REPLACE PROTECTIVE COVER SEAL ON RESET BREAKER | EA | 1 |
| 4. CLEAN INTERIOR OF JUNCTION BOXES AND REPLACE SEALS, OR REPLACE JUNCTION BOXES AS REQUIRED | EA | 2 |
| 5. PROPERLY LAND AND LABEL WIRES IN POWER SUPPLY JUNCTION BOX | EA | 1 |

CONDITION DESCRIPTIONS

BRIDGE NO.: 060322

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 | 113 |
| 2. CLEAN AND PAINT ALL STEEL SUPERSTRUCTURE ELEMENTS | SF | 1955 |
| BOTTOM OF DECK: 560 SF | (TOTAL) | |
| GIRDERS: 566 SF | | |
| FLOORBEAMS: 704 SF | | |
| LIFT BEAM: 119 SF | | |
| BEARINGS: 6 SF | | |
| 3. CLEAN AND PAINT ALL STEEL GANTRY ELEMENTS | SF | 1955 |
| GANTRY TOP CAP AND CROSS BEAMS: 242 SF | (TOTAL) | |
| PILES AND PILE BRACING: 864 SF | | |
| 4. REPLACE DECK AND FLOORBEAM ATTACHMENT BOLTS AND NUTS WITH SECTION LOSS | EA | 132 |

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 JOINT MATERIAL UP TO 138" LONG X 7" WIDE, AND UP TO 1 1/2" TRANSVERSE CRACKS IN ASPHALT OVERLAY ALONG BENT 1



(2) AREAS OF MISSING JOINT MATERIAL UP TO 138" LONG X 7" WIDE, AND UP TO 1 1/2" TRANSVERSE CRACKS IN ASPHALT OVERLAY ALONG BENT 1

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EFFLORESCENCE SEEPAGE BETWEEN UNITS IN VARIOUS LOCATIONS IN SPAN 2



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

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AREAS OF SURFACE CORROSION AND CORROSION WITH UP TO 1/8" LOSS OF SECTION IN
BOTTOM OF DECK, PRIMARILY BETWEEN FLOORBEAMS 3 THRU 7



AREAS OF CORROSION WITH NO MEASURABLE LOSS OF SECTION UP TO 21" LONG X 11" WIDE
ALONG BOTTOM FLANGE OF GIRDERS 1 AND 2 BETWEEN FLOOR BEAMS 4 AND 5, GIRDER 1
SHOWN

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GIRDER 1: 16" SECTION OF UP TO 1/8" DEEP SCRAPES ALONG TOP FLANGE 1 AT FAR END



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

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(4) OF (4) ANCHOR BOLTS LEANING 1/2" TO NORTH AT GIRDER 2 BEARING AT BENT 2



GIRDER 1 NEAR BEARING: BROKEN WELD BETWEEN RAIL AND MASONRY PLATE ALONG ALL EDGES ALLOWING RAIL TO ROTATE TO NORTH

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GIRDER 1 NEAR BEARING: BROKEN WELD BETWEEN RAIL AND MASONRY PLATE ALONG ALL EDGES ALLOWING RAIL TO ROTATE TO NORTH



GIRDER 1 NEAR BEARING: BROKEN WELD BETWEEN RAIL AND MASONRY PLATE ALONG ALL EDGES ALLOWING RAIL TO ROTATE TO NORTH

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FLOORBEAM 3: 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



FLOORBEAMS 3, 4 AND 5: AREAS OF CORROSION ALONG BOTTOM FLANGE UP TO 11' LONG X 10 1/8" WIDE DOWN TO 11/16" RESIDUAL FLANGE (3/4" ORIGINAL THICKNESS) AT MID LENGTH, FLOORBEAM 4 SOUTH FACE SHOWN

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SURFACE CORROSION AND CORROSION WITH NO MEASURABLE LOSS OF SECTION ALONG FLOORBEAMS IN VARIOUS LOCATIONS, PRIMARILY IN FLOORBEAMS 4 AND 5, FLOORBEAM 5 NORTH FACE SHOWN



CORROSION WITH UP TO 100% LOSS OF SECTION THROUGHOUT DECK AND FLOORBEAM ATTACHMENT BOLTS AND NUTS IN VARIOUS LOCATIONS, CONDITION ON SOUTH SIDE OF FLOORBEAM 4 SHOWN

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UP TO 0.012" TRANSVERSE, VERTICAL AND HORIZONTAL CRACKS AND HAIRLINE MAP CRACKS WITH AND WITHOUT EFFLORESCENCE THROUGHOUT LATERAL GUIDES AND CONCRETE CAPS, SOUTH FACE OF BENT 2 AT RIGHT END SHOWN



BENT 2 PILE 1: AREAS OF CORROSION ALONG BOTH FLANGES EXTENDING FROM BOTTOM OF CAP TO WATERLINE UP TO 23" HIGH X 11 3/4" WIDE DOWN TO KNIFE'S (9/16" ORIGINAL THICKNESS), NORTH FACE SHOWN

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



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

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LIFT BENT PILES 1 THRU 6: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 32" LONG X 12" WIDE DOWN TO 1/8" RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) BETWEEN BRACING AND WATERLINE IN VARIOUS LOCATIONS, NORTH FACE OF PILE 4 SHOWN



LIFT BENT PILES 1 THRU 6: AREAS OF CORROSION ALONG BOTH FLANGES UP TO 32" LONG X 12" WIDE DOWN TO 1/8" RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) BETWEEN BRACING AND WATERLINE IN VARIOUS LOCATIONS, NORTH FACE OF PILE 1 SHOWN

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LIFT BENT PILES: WELDED PLATE REPAIRS ALONG FLANGES AND WEBS UP TO 39" 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 34" LONG X 4" HIGH DOWN TO KNIFE'S EDGE RESIDUAL FLANGE (9/16" ORIGINAL THICKNESS) WITH UP TO 12" LONG X 1/2" HIGH LOSS OF SECTION IN VARIOUS LOCATIONS, RIGHT FACE OF P2-P5 BRACING SHOWN

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LIFT BENT PILE BRACING: WELDED PLATE REPAIRS ALONG BOTH FLANGES NEAR WATERLINE UP TO 44" LONG X 6" HIGH IN VARIOUS LOCATIONS, LEFT FACE OF P1-P4 BRACING SHOWN



EAST CYLINDER LEAKING

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CORRODED HYDRAULIC PIPING (TYP.)

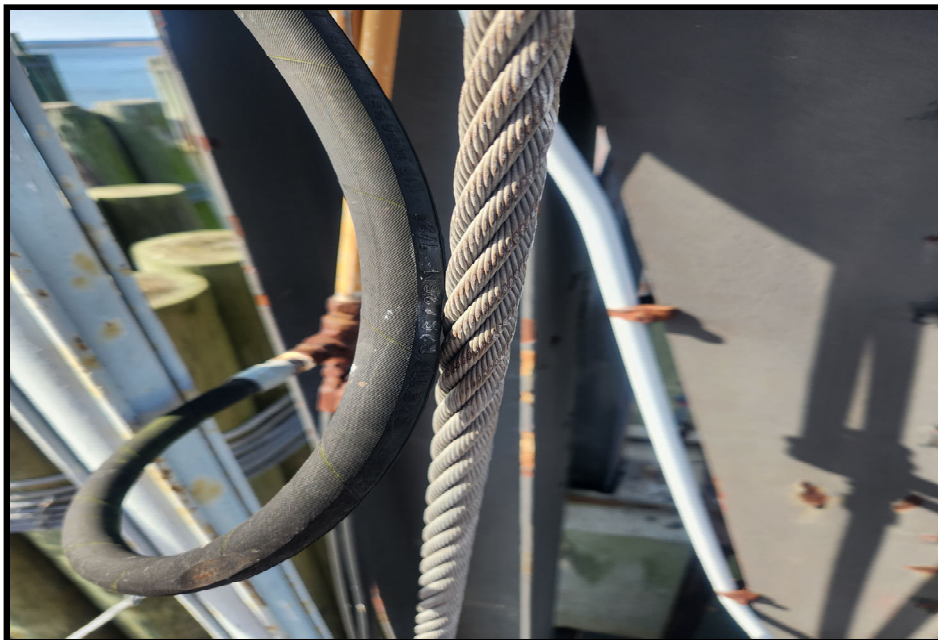


MISSING CLAMPS ON HYDRAULIC PIPING

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HYDRAULIC PIPING HELD WITH ZIP TIES



WEST UPPER CYLINDER HOSE RUBBING ON COUNTERWEIGHT CABLE

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WEST UPPER CYLINDER COTTER PIN BROKEN



WEST LOWER CYLINDER COTTER PIN REPLACED WITH WIRE

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LIGHT ELECTRICAL WIRES NOT IN CONDUIT



FLEXIBLE CONDUIT FITTING LOOSE ON LIGHTING JUNCTION BOX

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FLEXIBLE CONDUIT EXITING MAIN PANEL CRACKED



FLEXIBLE CONDUIT BROKEN

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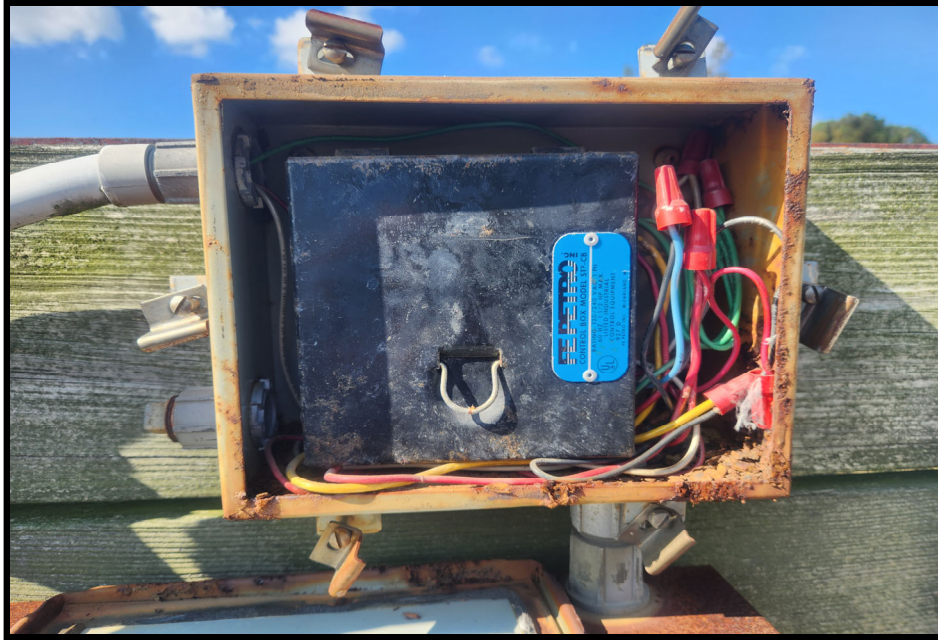


FLEXIBLE CONDUIT PULLED OUT OF JUNCTION BOX FITTING



FAILED PROTECTIVE COVER SEAL ON RESET BREAKER

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JUNCTION BOX SEVERELY CORRODED WITH DEBRIS INSIDE

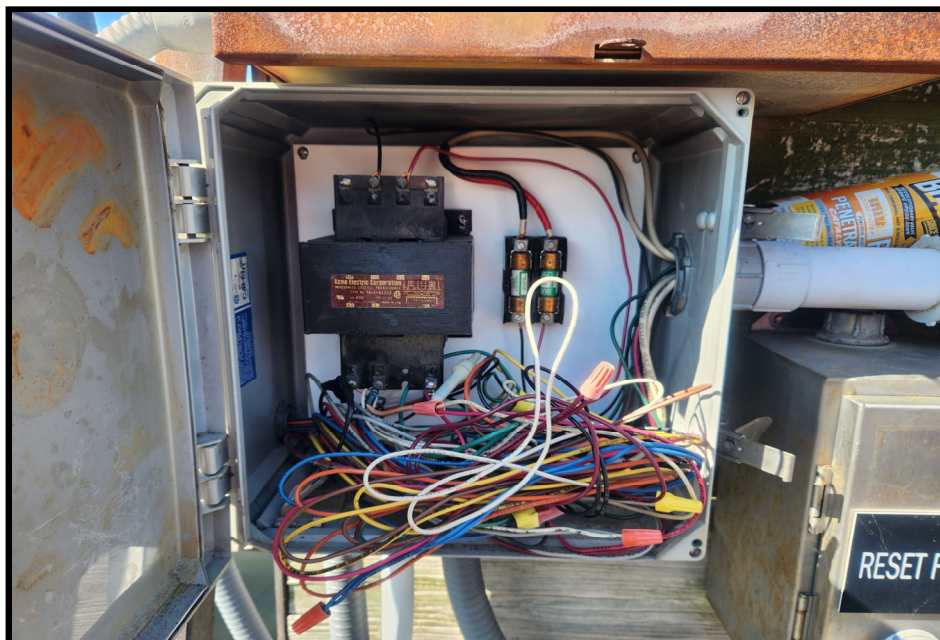


DEBRIS IN RESET BREAKER BOX

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BREAKER BOX PANEL DOES NOT COVER WIRES COMPLETELY



WIRES NOT LABELED OR PROPERLY LANDED IN POWER SUPPLY JUNCTION BOX

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STRUCTURE PHOTOS

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EAST PROFILE, LOOKING WEST



WEST PROFILE, LOOKING EAST

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SPAN 3 EAST PROFILE, LOOKING WEST



SPAN 2 UNDERDECK, SPAN 1 SIMILAR

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SPAN 3 UNDERDECK



GIRDER 2 AND FLOORBEAM 1 CONNECTION, OTHERS SIMILAR

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GIRDER 2 BEARING AT BENT 2, GIRDER 1 BEARING SIMILAR



BENT 2, LOOKING SOUTH

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LIFT BENT / GANTRY, LOOKING SOUTH



LIFT BENT / GANTRY, LOOKING NORTH

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LIFT BENT / GANTRY, LOOKING SOUTHEAST



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

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