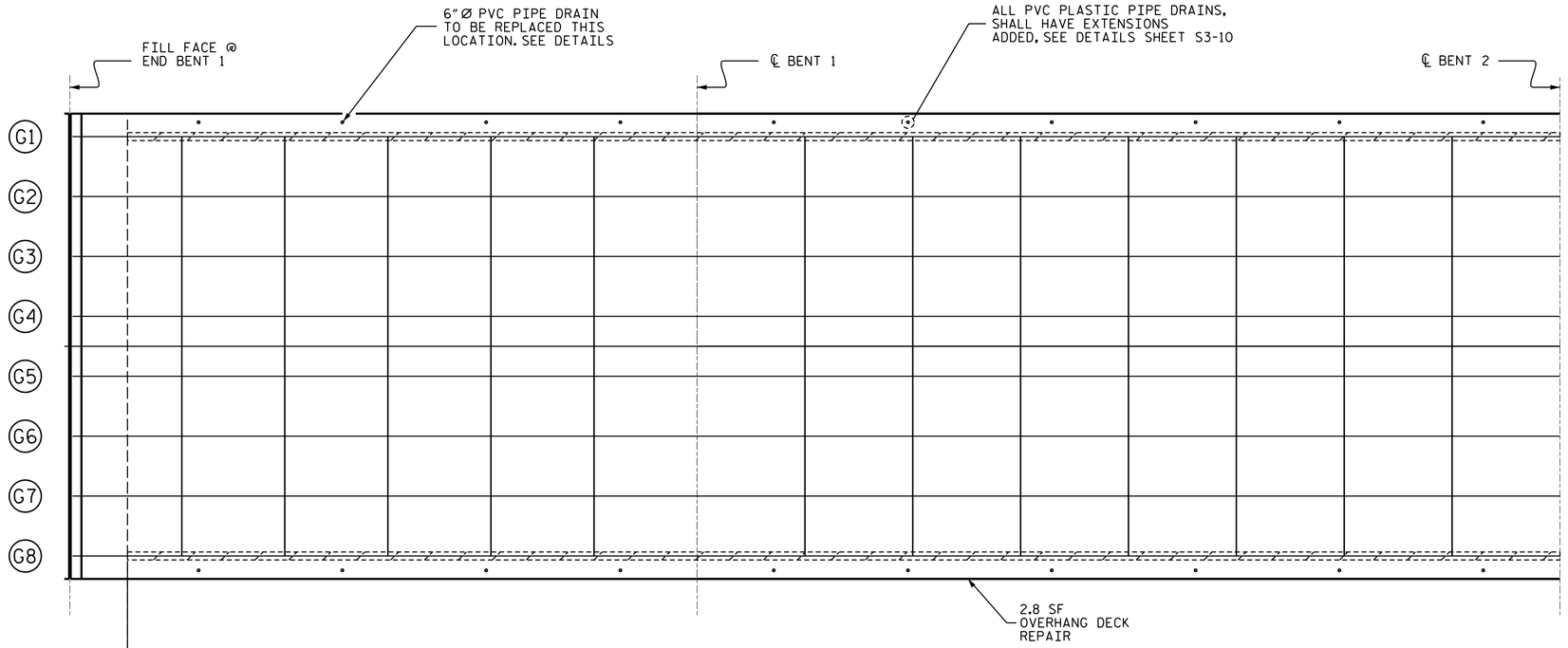
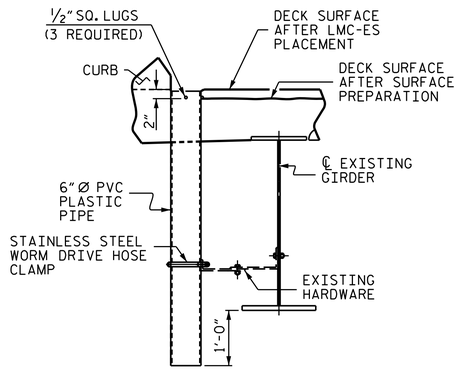



## PIPE DRAIN REPLACEMENT DETAIL

### NOTES:

REPLACEMENT OF 6"Ø PIPE DRAIN SHALL TAKE PLACE BEFORE PLACEMENT OF LMC OVERLAY.

THE AREA AROUND THE EXISTING PIPE DRAIN SHALL BE EXCAVATED PRIOR TO REMOVING AND INSTALLING THE NEW PIPE DRAIN.

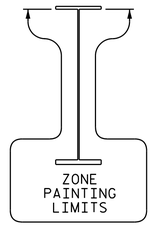
COUPLING IN DRAIN PIPE WILL BE PERMITTED AS APPROVED BY THE ENGINEER.

TOP OF FLOOR DRAIN TO BE SET ⅜"BELOW SURFACE OF OVERLAY.

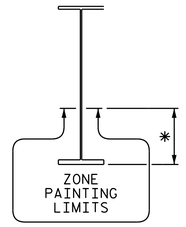
3- ½" SQUARE LUGS TO BE GLUED TO THE PVC PLASTIC PIPE AT EQUAL SPACES AROUND THE PIPE DRAIN APPROXIMATELY 2"FROM THE TOP OF THE PIPE.

STAINLESS STEEL WORM DRIVE HOSE CLAMP SHALL BE COMMERCIAL QUALITY.

THE 6"Ø PVC PLASTIC PIPE AND FITTINGS SHALL BE SCHEDULE 40 AND CONFORM TO ASTM D1785.




DETAIL A
(STANDARD BEAM END)




DETAIL B
(ADDITIONAL BEAM AREA)

## ZONE PAINTING LIMITS

| AS-BUILT REPAIR QUANTITY TABLE | | | | |
|---|---|---|---|---|
| UNDERSIDE OF DECK REPAIRS - SPAN A | | | | |
| | ESTIMATE | | ACTUAL | |
| SHOTCRETE REPAIRS | AREA SQ. FT. | VOLUME CU. FT. | AREA SQ. FT. | VOLUME CU. FT. |
| UNDERSIDE OF DECK | 0 | 0.0 | | |
| END BENT DIAPHRAGM | 0.0 | 0.0 | | |
| OVERHANG | 0.0 | 0.0 | | |
| CONCRETE REPAIRS | AREA SQ. FT. | VOLUME CU. FT. | AREA SQ. FT. | VOLUME CU. FT. |
| UNDERSIDE OF DECK | 0.0 | 0.0 | | |
| END BENT DIAPHRAGM | 0.0 | 0.0 | | |
| OVERHANG | 0.0 | 0.0 | | |
| EPOXY RESIN INJECTION | | LIN. FT. | | LIN. FT. |
| UNDERSIDE OF DECK | | 0.0 | | |
| END BENT DIAPHRAGM | | 0.0 | | |
| OVERHANG | | 0.0 | | |
| DECK DRAIN REPAIR | | EACH | EACH | |
| DECK DRAIN REPAIR | | 8.0 | | |

| AS-BUILT REPAIR QUANTITY TABLE | | | | |
|---|---|---|---|---|
| UNDERSIDE OF DECK REPAIRS - SPAN B | | | | |
| | ESTIMATE | | ACTUAL | |
| SHOTCRETE REPAIRS | AREA SQ. FT. | VOLUME CU. FT. | AREA SQ. FT. | VOLUME CU. FT. |
| UNDERSIDE OF DECK | 0.0 | 0.0 | | |
| END BENT DIAPHRAGM | 0.0 | 0.0 | | |
| OVERHANG | 2.8 | 0.9 | | |
| CONCRETE REPAIRS | AREA SQ. FT. | VOLUME CU. FT. | AREA SQ. FT. | VOLUME CU. FT. |
| UNDERSIDE OF DECK | 0.0 | 0.0 | | |
| END BENT DIAPHRAGM | 0.0 | 0.0 | | |
| OVERHANG | 0.0 | 0.0 | | |
| EPOXY RESIN INJECTION | | LIN. FT. | | LIN. FT. |
| UNDERSIDE OF DECK | | 0.0 | | |
| END BENT DIAPHRAGM | | 0.0 | | |
| OVERHANG | | 0.0 | | |
| DECK DRAIN REPAIR | | EACH | EACH | |
| DECK DRAIN REPAIR | | 12.0 | | |

### NOTES

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEARANCE TO SAWCUT. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR UNDERSIDE OF DECK REPAIRS. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR OVERHANG REPAIRS. SEE "OVERHANG, DIAPHRAGM AND BRIDGE RAIL REPAIR DETAILS" SHEET.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

FOR DECK DRAIN REPAIRS, SEE SPECIAL PROVISIONS.

FOR PAINTING EXISTING WEATHERING STEEL, SEE SPECIAL PROVISIONS.

ADDITIONAL BEAM PAINTING SHALL BE UNDER THE PAY BID ITEM "PAINTING EXISTING WEATHERING STEEL."

SHOTCRETE REPAIR AREA

ADDITIONAL BEAM PAINT AREA

NORTH CAROLINA PROFESSIONAL SEAL 031021 ENGINEER AMBER M. LEE

DocuSigned by: Amber Lee 03/18/2022

DRAWN BY : E CABBELL DATE : 02/2022
CHECKED BY : H.A. LOCKLEAR DATE : 02/2022

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT NO. I-5831A
MADISON COUNTY
BRIDGE NO. 560547

SHEET 1 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# UNDERSIDE DECK REPAIRS SPANS A & B

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S3-09 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 24 |

3/18/2022
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