

**PLAN OF SPANS**

- BRIDGE JOINT DEMOLITION
- CLASS II SURFACE PREPARATION
- DECK SCARIFICATION, HYDRO-DEMOLITION AND LATEX MODIFIED CONCRETE OVERLAY-VES
- \*X TEST HOLE LOCATION

**NOTES:**

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE BASED ON THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS AND ENTER THE ACTUAL QUANTITIES INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PAYMENT FOR CLASS II SURFACE PREPARATION IS BASED ON THE SQUARE YARDS OF ADDITIONAL DEMOLITION REQUIRED FOLLOWING HYDRO-DEMOLITION OF THE BRIDGE DECK. SEE "LMC OVERLAY SURFACE PREPARATION" SPECIAL PROVISIONS.

FOR SECTIONS A-A AND B-B, SEE "JOINT DETAILS" SHEET.

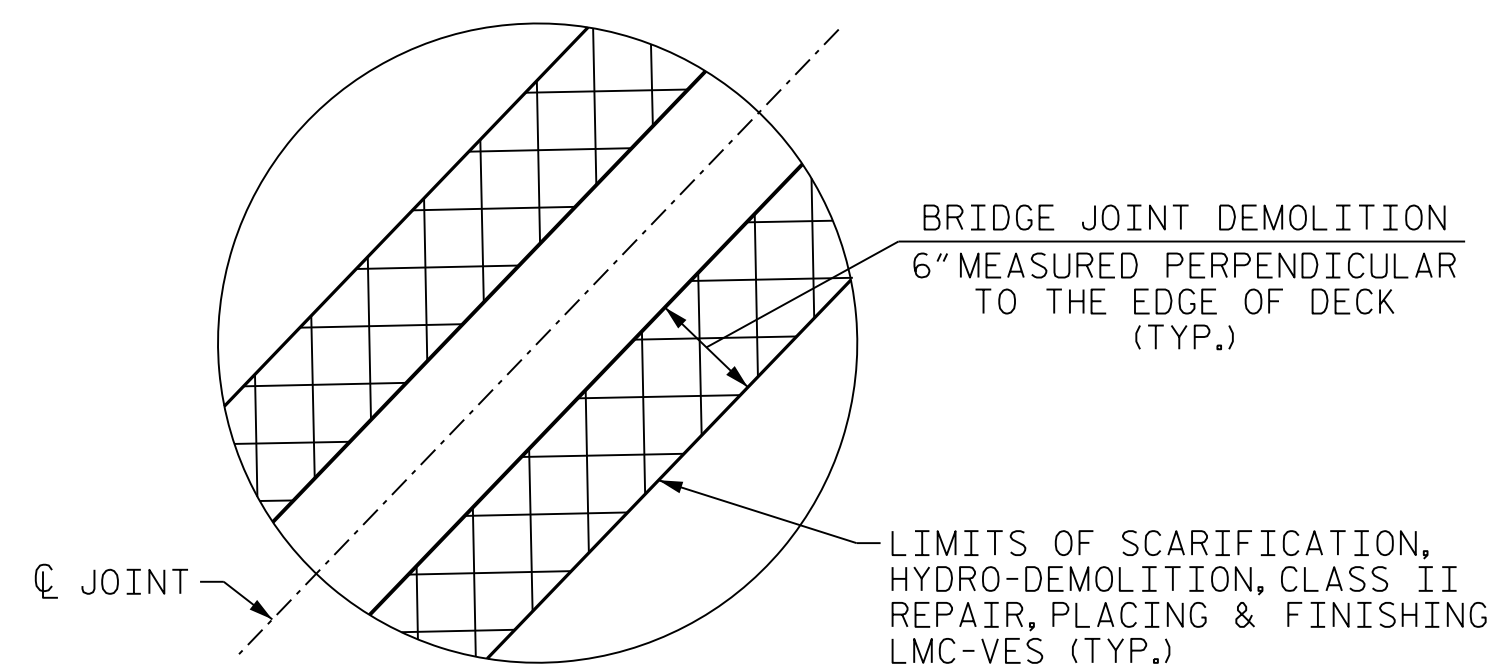
| TEST LOCATION | *CONCRETE COVER | ESTIMATED CONCRETE STRENGTH |
|---------------|-----------------|-----------------------------|
|               | (INCH)          | (PSI)                       |
| #1            | 2 3/8"          | 4300                        |
| #2            | 2 1/8"          | 4300                        |
| #3            | 2 1/4"          | 4500                        |
| #4            | 2 3/8"          | 4500                        |

INFORMATION IN CHART TAKEN FROM DECK EVALUATION DATED 08/29/22.

\* CONCRETE COVER FOR TOP BARS IN THE DECK ARE BASED ON DECK EVALUATION DATED 08/29/22. EXISTING BRIDGE PLANS INDICATE 1/2" CONCRETE COVER.

| AS-BUILT REPAIR QUANTITY TABLE<br>SPANS A AND B     |            |           |         |           |
|---|------------|-----------|---------|-----------|
| TOP OF DECK REPAIRS                                 |            |           |         |           |
|   | ESTIMATE   | ACTUAL    |         |           |
| SCARIFYING BRIDGE DECK                              | 370.9 SY   |           |         |           |
| HYDRO-DEMOLITION OF BRIDGE DECK                     | 370.9 SY   |           |         |           |
| CLASS II SURFACE PREPARATION                        | 0.0 SY     |           |         |           |
| LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH | 18.1 CY    |           |         |           |
| PLACING & FINISHING LMC-VES OVERLAY                 | 370.9 SY   |           |         |           |
| BRIDGE JOINT DEMOLITION                             | 52.3 SF    |           |         |           |
| GROOVING BRIDGE FLOORS                              | 2877 SF    |           |         |           |
| UNDERSIDE OF DECK REPAIRS                           |            |           |         |           |
| SHOTCRETE REPAIRS                                   | QUANTITIES |           |         |           |
|   | ESTIMATE   | ACTUAL    |         |           |
|   | AREA SF    | VOLUME CF | AREA SF | VOLUME CF |
| UNDERSIDE OF DECK                                   | 0.0        | 0.0       |         |           |
| OVERHANG DIAPHRAGMS                                 | 0.0        | 0.0       |         |           |
| UNDERSIDE OF OVERHANG                               | 0.0        | 0.0       |         |           |
| INTERIOR DIAPHRAGMS                                 | 0.0        | 0.0       |         |           |
|   | ESTIMATE   | ACTUAL    |         |           |
| UNDERSIDE EPOXY RESIN INJECTION                     | 0.0 LF     |           |         |           |

VALUES IN CHART REPRESENT ESTIMATED UNDERSIDE OF DECK REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MINIMUM OF 1" BEHIND REBAR AND MINIMUM 2" CLEAR TO SAW CUT. SEE REPAIR DETAILS.

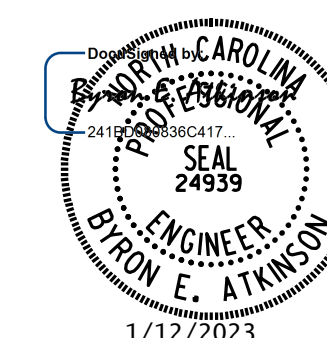


**DETAIL "A"**

PROJECT NO. I-6052  
 MECKLENBURG COUNTY  
 BRIDGE NO. 590283

SHEET 1 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 SURFACE PREPARATION  
 SPANS A AND B



**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

MI ENGINEERING  
 1011 SCHAUB DRIVE, SUITE 100  
 RALEIGH, NC 27606  
 (919) 851-6606  
 FIRM PE NUMBER : P-0671

| REVISIONS |     |       |     |     |       |
|-----------|-----|-------|-----|-----|-------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: |
| 1         |     |       | 3   |     |       |
| 2         |     |       | 4   |     |       |

SHEET NO.  
**S3-4**  
 TOTAL SHEETS  
**108**

DRAWN BY : B.E. LANNING DATE : 10/2022  
 CHECKED BY : B.E. ATKINSON DATE : 10/2022  
 DESIGN ENGINEER OF RECORD : B.E. ATKINSON DATE : 10/2022

1/12/2023 9:18:22 AM User: blanning  
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