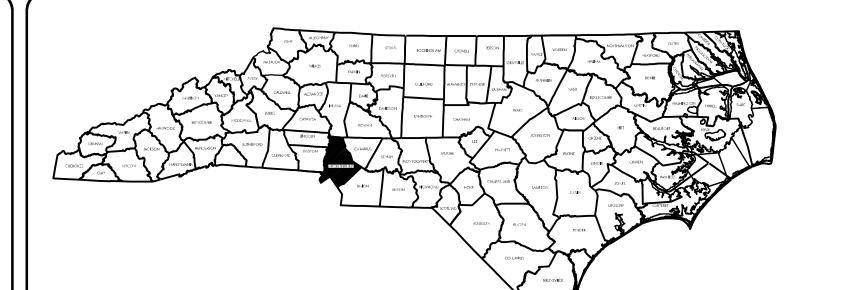
# 838

100489



### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

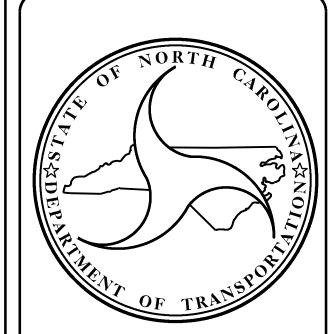
### MECKLENBURG COUNTY

LOCATION: BRIDGE #590203 ON I-85 NBL O.6 MILES SOUTH OF JUNCTION NC16 OVER SEABOARD COASTLINE RAILROAD

> BRIDGE #590204 ON I-85 SBL 0.6 MILES SOUTH OF JUNCTION NC16 OVER SEABOARD COASTLINE RAILROAD

TYPE OF WORK: BRIDGE PRESERVATION - SILANE DECK TREATMENT, JOINT REPLACEMENT

| Beater Ro Ridge Ri | elev D. Ludwing St. P. M. Dakota St. P. D. D. Dakota St. P. Dakot | 1.56  N.1-85 Service Rd  Abelwood Rd  Abelwood Rd  1.50  |
|--|--|--|
| Porter St Re Anile Ct  | E Cloudrier en la  | Burbank Dr J T Williams Middle School  |
| Street wood with the street when an interpretation and the street when a street when | Estrodic College St. Estimod Maria College St. Estimod Maria College St. Est. St. St. St. St. St. St. St. St. St. S  | 1 Allow Allow Garnette   |
| Control of the Royal St. Rowan St. North Av  | 1811 1812 Halsey St. 1812  | Thomasbord High Schoolst lluke St  St Mark St  St John St  St Paul S  Remington St  St Paul S  |
| Lynn St Lynn St Hoover Robertson Rob | #203   | Druid Hills Elementary School Grier Av C524 Dundeen St Dundeen St Vinda Step Step Step Step Step Step Step Step  |
| N 34B 1814 Plainview 1919 1985 1985 1985 1985 1985 1985 1985   | To are An Paungalow Ra   | 16 Sanders AV Brookshire France Roll   |
| Avalon Av  | Bahama Qidili Ba | Cemetiry St. Sparrow C. Sparrow C |
|  | ogers St. Brice is St.   | Chamberland Dixon Sty Land North Pin Johnson C Smith Univers   |



### DESIGN DATA

BRIDGE #203 ADT 2018 = 68,500 BRIDGE #204 ADT 2013 = 62,000

### PROJECT LENGTH

PROJECT LENGTH #203 = 0.027 MI PROJECT LENGTH #204 = 0.027 MI

NCDOT CONTACT: \_\_TIM SHERRILL, PE

### Prepared for:

### STRUCTURES MANAGEMENT UNIT

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2018 STANDARD SPECIFICATIONS

LETTING DATE: OCTOBER 18, 2023



EMILY MURRAY, PE PROJECT ENGINEER

5430 Wade Park Boulevard, Suite 410 Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765

STATE PROJECT REFERENCE NO.

F. A. PROJ. NO.

0085065

0085065

DESCRIPTION

CONSTR.

I-5838

STATE PROJECT NO.

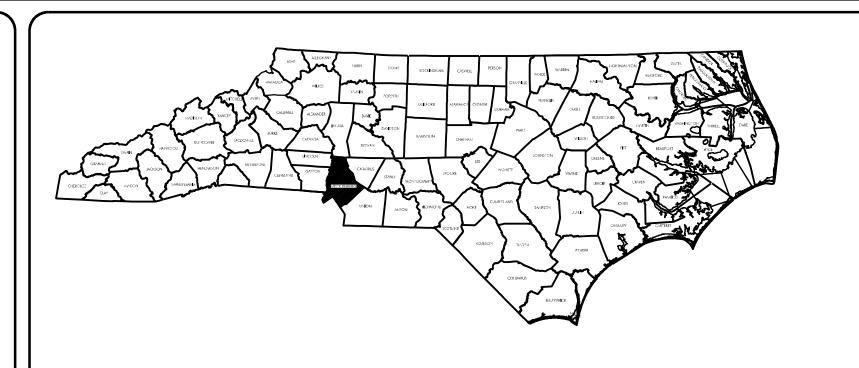
53044.1.1

53044.3.1

VICINITY MAP – MECKLENBURG CO.

## IIP PROJECT: 1-5838

### KACI: DJ00489



### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### MECKLENBURG COUNTY

| STATE         | STAT | E PROJECT REFERENCE NO. | SHEET<br>NO. | TOTAL<br>SHEETS |
|---------------|------|-------------------------|--------------|-----------------|
| N.C.          |      | I-5838                  | <b>1A</b>    | 13              |
| STATE PROJECT | NO.  | F. A. PROJ. NO.         | DESCRI       | PTION           |
| 53044.1.1     |      | 0085065                 | Р            | E               |
| 53044.3.1     |      | 0085065                 | CON          | ISTR.           |
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|               |      |                         |              |                 |
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|               |      |                         |              |                 |
|               |      |                         |              |                 |

LOCATION: BRIDGE #590203 ON I-85 NBL 0.6 MILES SOUTH OF JUNCTION NC16

OVER SEABOARD COASTLINE RAILROAD

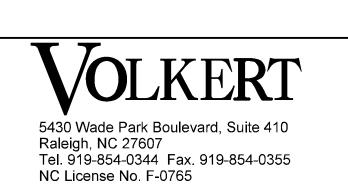
BRIDGE #590204 ON I-85 SBL 0.6 MILES SOUTH OF JUNCTION NC16 OVER SEABOARD COASTLINE RAILROAD

TYPE OF WORK: BRIDGE PRESERVATION - SILANE DECK TREATMENT, JOINT REPLACEMENT

### INDEX OF SHEETS

| STRUCTURE NO. | DESCRIPTION   | SHEET NUMBER |
|---------------|---|--------------|
|               | TITLE SHEET   |              |
|               | INDEX OF SHEETS & SUMMARY OF QUANTITIES             |              |
|               | LOCATION SKETCH                                     | S-1          |
| 590203        | BRIDGE ON I-85 NBL OVER SEABOARD COASTLINE RAILROAD | S-2 TO S-6   |
| 590204        | BRIDGE ON I-85 SBL OVER SEABOARD COASTLINE RAILROAD | S-7 TO S-11  |
|               | JOINT REPAIR DETAILS                                | S-12 TO S-13 |
|               | STANDARD NOTES                                      | SN           |

| TOTAL BILL OF MATERIAL |   |   |                            |                             |                                |  |  |  |  |
|------------------------|---|---|----------------------------|-----------------------------|--------------------------------|--|--|--|--|
| BRIDGE NO.             | FOAM JOINT<br>SEALS FOR<br>PRESERVATION | ELASTOMERIC<br>CONCRETE FOR<br>PRESERVATION | BRIDGE JOINT<br>DEMOLITION | SILANE<br>DECK<br>TREATMENT | SHOTBLASTING<br>BRIDGE<br>DECK |  |  |  |  |
|                        | LIN.FT.                                 | CU.FT.                                      | SQ.FT.                     | SQ. YDS.                    | SQ. YDS.                       |  |  |  |  |
| 590203                 | 340.0                                   | 84.0  | 336.0                      | 1427.1                      | 1427.1                         |  |  |  |  |
| 590204                 | 340.0                                   | 84.0  | 336.0                      | 1427.1                      | 1427.1                         |  |  |  |  |
|                        |   |   |                            |                             |                                |  |  |  |  |
| TOTAL                  | 680.0                                   | 168.0                                       | 672.0                      | 2854 <b>.</b> 2             | 2854.2                         |  |  |  |  |





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



### LOCATION SKETCH

INFORMATION INDICATED ON THE LOCATION SKETCH SHALL BE CONSIDERED GENERAL INFORMATION ONLY. THE CONTRACTOR SHALL CONFIRM, THROUGH OTHER SOURCES, SPECIFIC INFORMATION REGARDING BRIDGES, ROADWAYS, UTILITIES, THE SURROUNDING AREA, AND ANY OTHER ASPECTS THAT MAY BE NECESSARY TO PERFORM AND COMPLETE THE PROJECT.

### NOTES

FOR CONTROL OF TRAFFIC AND LIMITS ON PHASING OF CONSTRUCTION, SEE TRANSPORTATION MANAGEMENT PLANS.

PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A COMPLETE SEQUENCE OF TASKS FOR EACH OPERATION AFFECTING THE BRIDGE SURFACE AND/OR TRAFFIC.

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION SHOWN ON THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN WHAT IS SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT DUE TO THE NATURE OF PRESERVATION PROJECTS, THE EXTENT OF WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO COMMENCEMENT OF WORK. REPAIR LOCATIONS AND ESTIMATES OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS.

WORK ON THE BRIDGES SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL BELOW, EXCEPT WHERE THE CONTRACTORS PLAN USE PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES TO CATCH THE MATERIAL. THE CONTRACTOR SHALL SUBMIT PLANS FOR CONSTRUCTION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS AND THE PROJECT SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT THE EXISTING STRUCTURE WHICH IS TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY PART OF THE EXISTING STRUCTURE WHICH IS TO REMAIN IN PLACE, THE DAMAGED AREA SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT.

ANY DAMAGE TO EXISTING REINFORCING STEEL, DURING CONTRACTORS OPERATIONS, SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING SURFACE PREPARATIONS OF THE BRIDGE DECK. THE CONTRACTOR SHALL TAKE CARE THAT ANY CONSTRUCTION DEBRIS THAT COLLECTS IN THE DRAINS IS CONTAINED. DRAINS IN SHOULDERS OF ADJACENT TRAVEL LANE(S) SHALL BE KEPT FREE AND CLEAR OF DEBRIS.

FOR SHOTBLASTING BRIDGE DECK AND SILANE DECK TREATMENT, SEE SILANE DECK TREATMENT SPECIAL PROVISION.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY. SEE SPECIAL PROVISIONS.

FOR BRIDGE JOINT DEMOLITION, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION. SEE SPECIAL PROVISIONS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

### SCOPE OF WORK

PERFORM JOINT DEMOLITION AND RECONSTRUCT BRIDGE JOINTS. PERFORM SHOTBLASTING AND APPLY SILANE DECK TREATMENT.

I HEREBY CERTIFY THAT THIS STRUCTURE WAS REHABILITATED ACCORDING TO THESE PLANS OR AS NOTED HEREIN.

5430 Wade Park Blvd, Suite 410

Tel. 919-854-0344 Fax. 919-854-0355

Raleigh, NC 27607

NC License No. F-0765

RESIDENT ENGINEER

DATE

PROJECT NO. I-5838MECKLENBURG COUNTY BRIDGE NO. 590203 & 590204



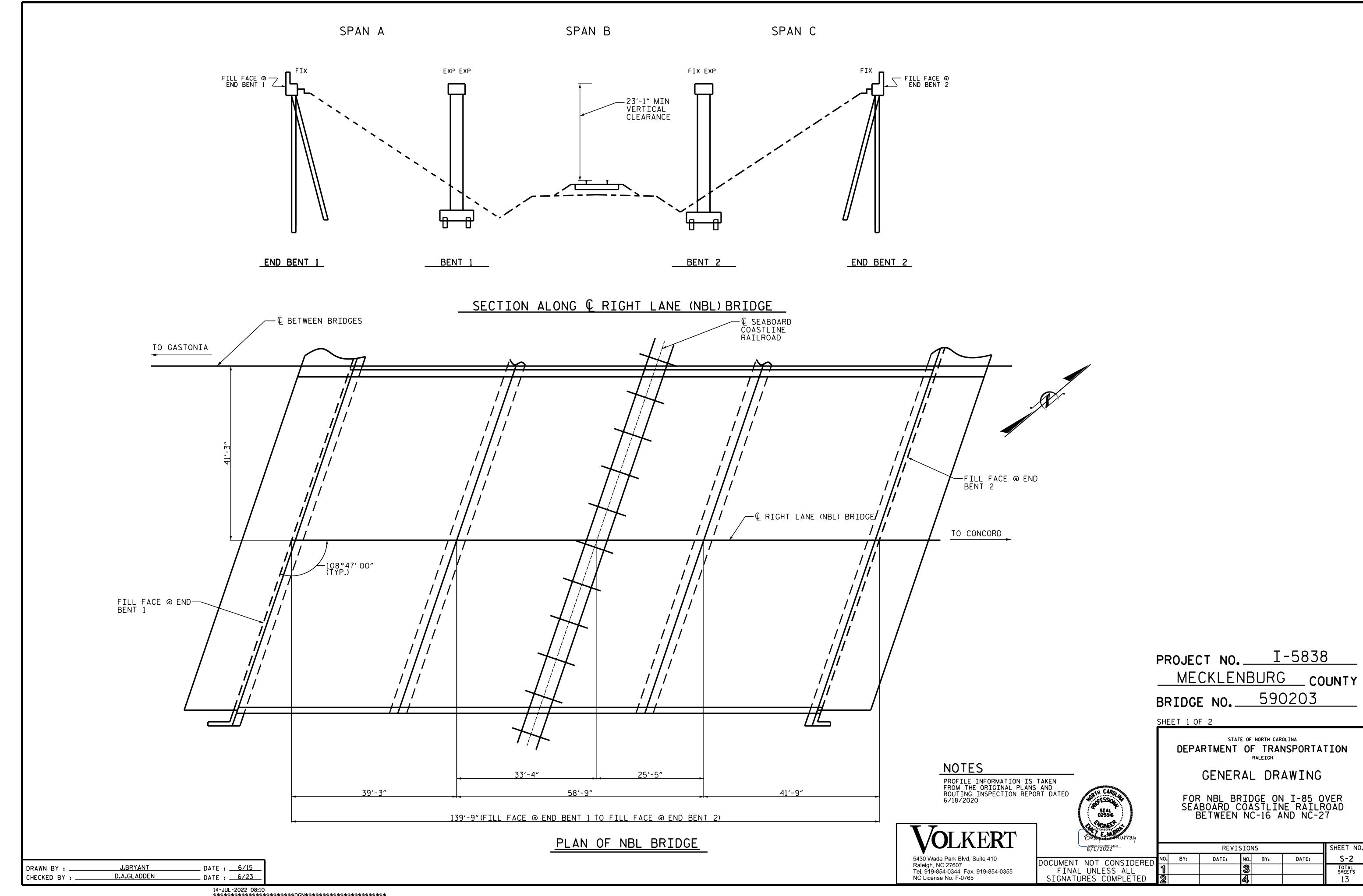
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

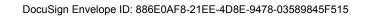
LOCATION SKETCH FOR BRIDGES ON I-85 OVER SEABOARD COASTLINE RAILROAD

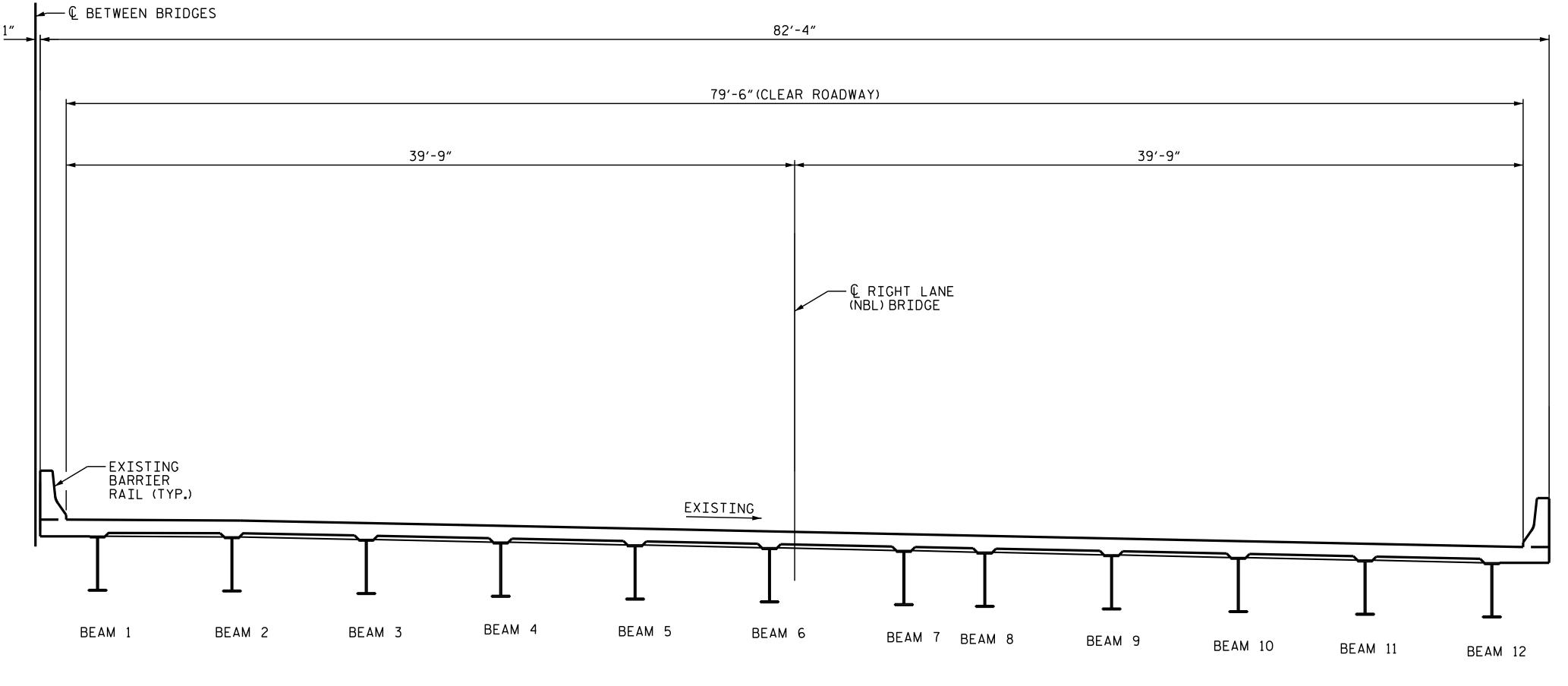
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DRAWN BY: Z.T.THORNTON DATE: 6/22 CHECKED BY : E.E.MURRAY DATE : 7/22



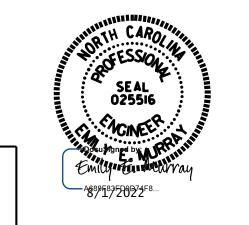




### EXISTING TYPICAL SECTION

### NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH 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 ADJUST THE ACTUAL QUANTITES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.



PROJECT NO. I-5838

MECKLENBURG COUNTY

BRIDGE NO: 590203

SHEET 2 OF 2

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

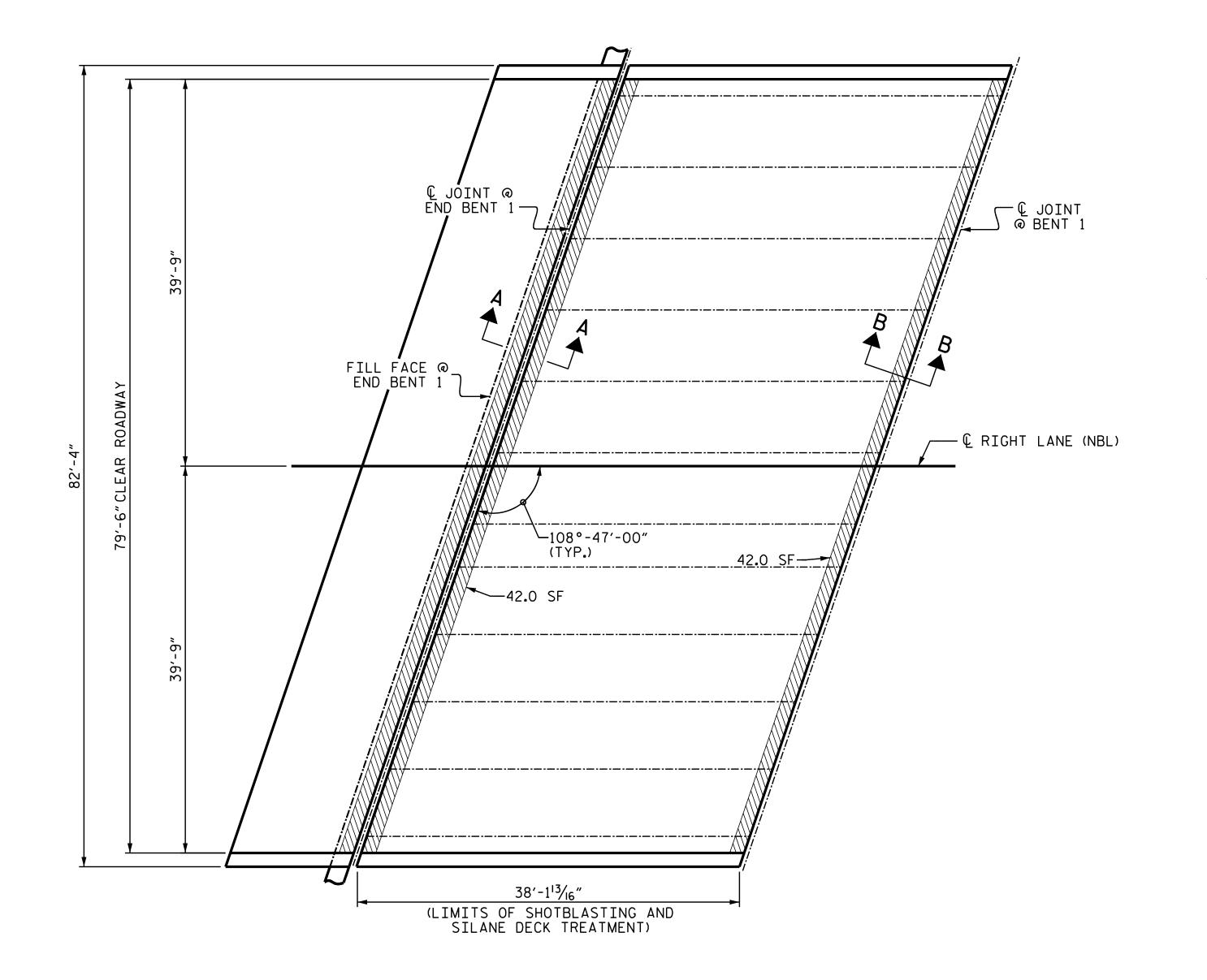
TYPICAL SECTION RIGHT LANE (NBL)

**VOLKERT**5430 Wade Park Blvd, Suite 410
Raleigh, NC 27607
Tel. 919-854-0344 Fax. 919-854-0355

NC License No. F-0765

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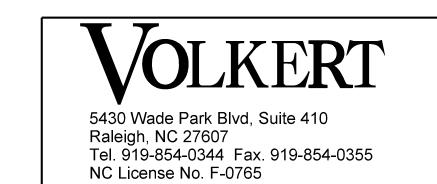


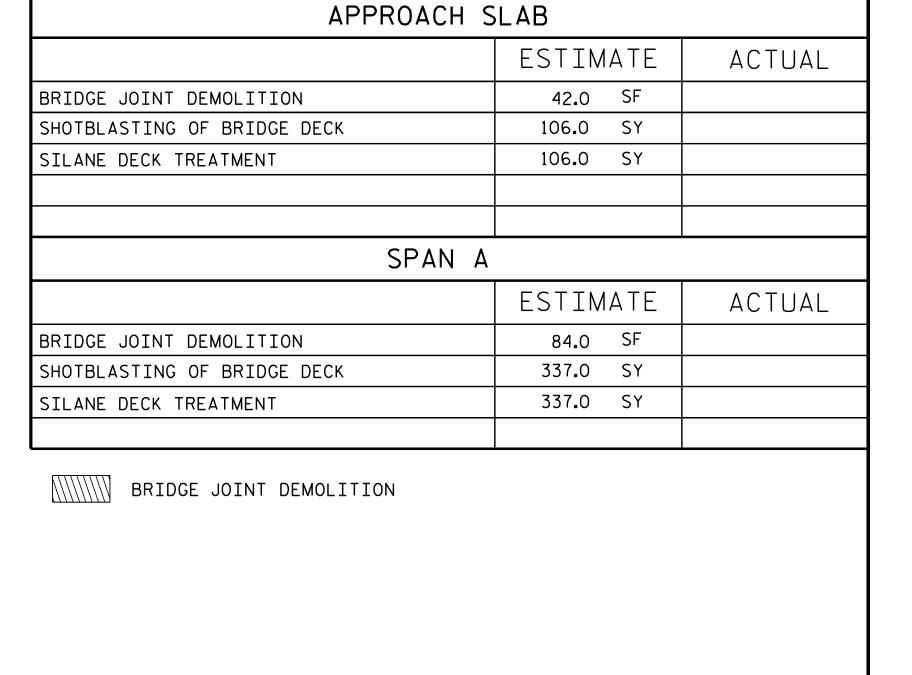
### PLAN OF SPAN A

### NOTES

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





AS-BUILT REPAIR QUANTITY TABLE

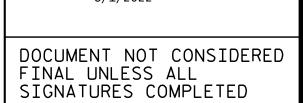
TOP OF DECK REPAIRS

PROJECT NO. I-5838 MECKLENBURG COUNTY BRIDGE NO. 590203

SHEET 1 OF 3

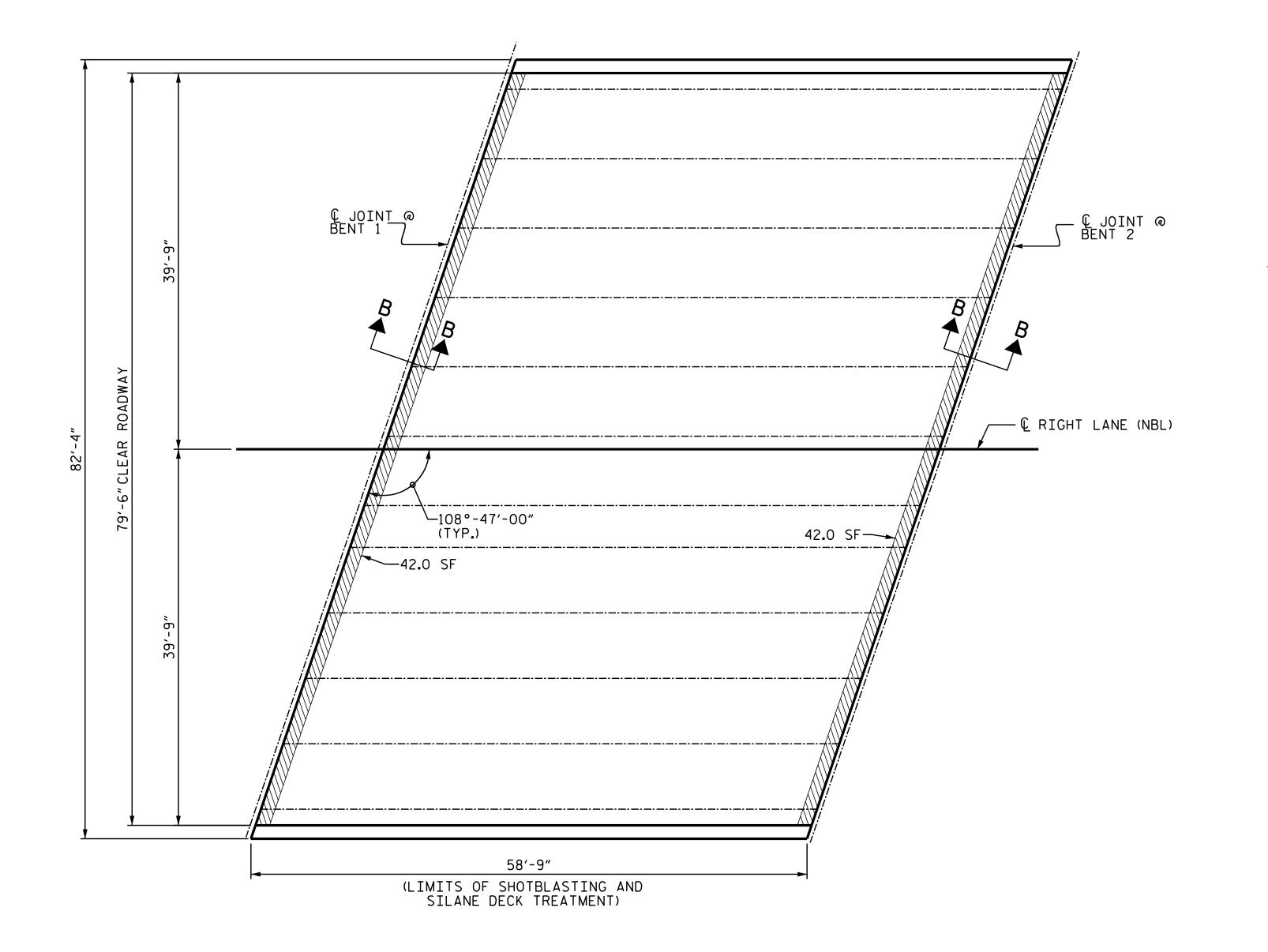
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

PLAN OF SPAN A RIGHT LANE (NBL)



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DRAWN BY: J.BRYANT DATE: 6/06
CHECKED BY: D.A.GLADDEN DATE: 6/22 J.BRYANT



### PLAN OF SPAN B

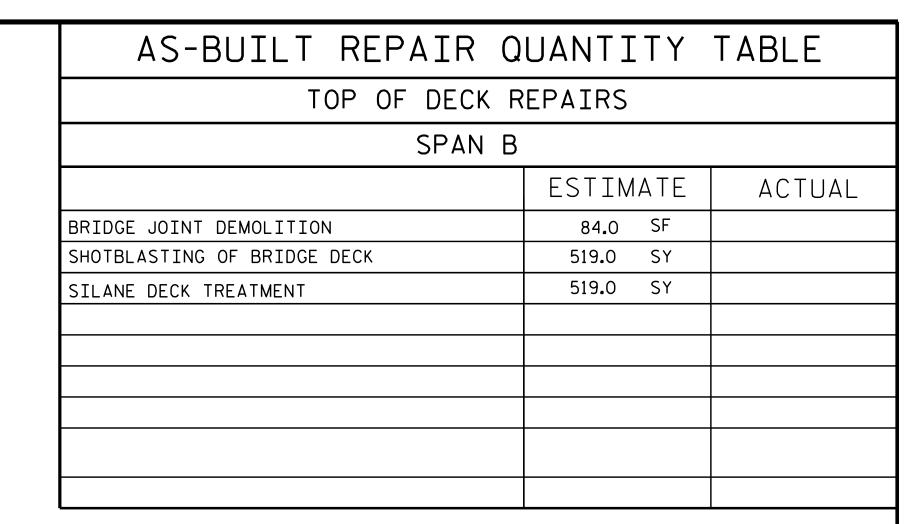
### NOTES

DRAWN BY: J.BRYANT DATE: 6/06
CHECKED BY: D.A.GLADDEN DATE: 6/22 J.BRYANT

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH 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 ADJUST THE ACTUAL QUANTITES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

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

5430 Wade Park Blvd, Suite 410 Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765



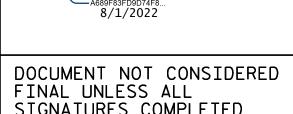
BRIDGE JOINT DEMOLITION

PROJECT NO. I-5838 MECKLENBURG COUNTY BRIDGE NO. 590203

SHEET 2 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

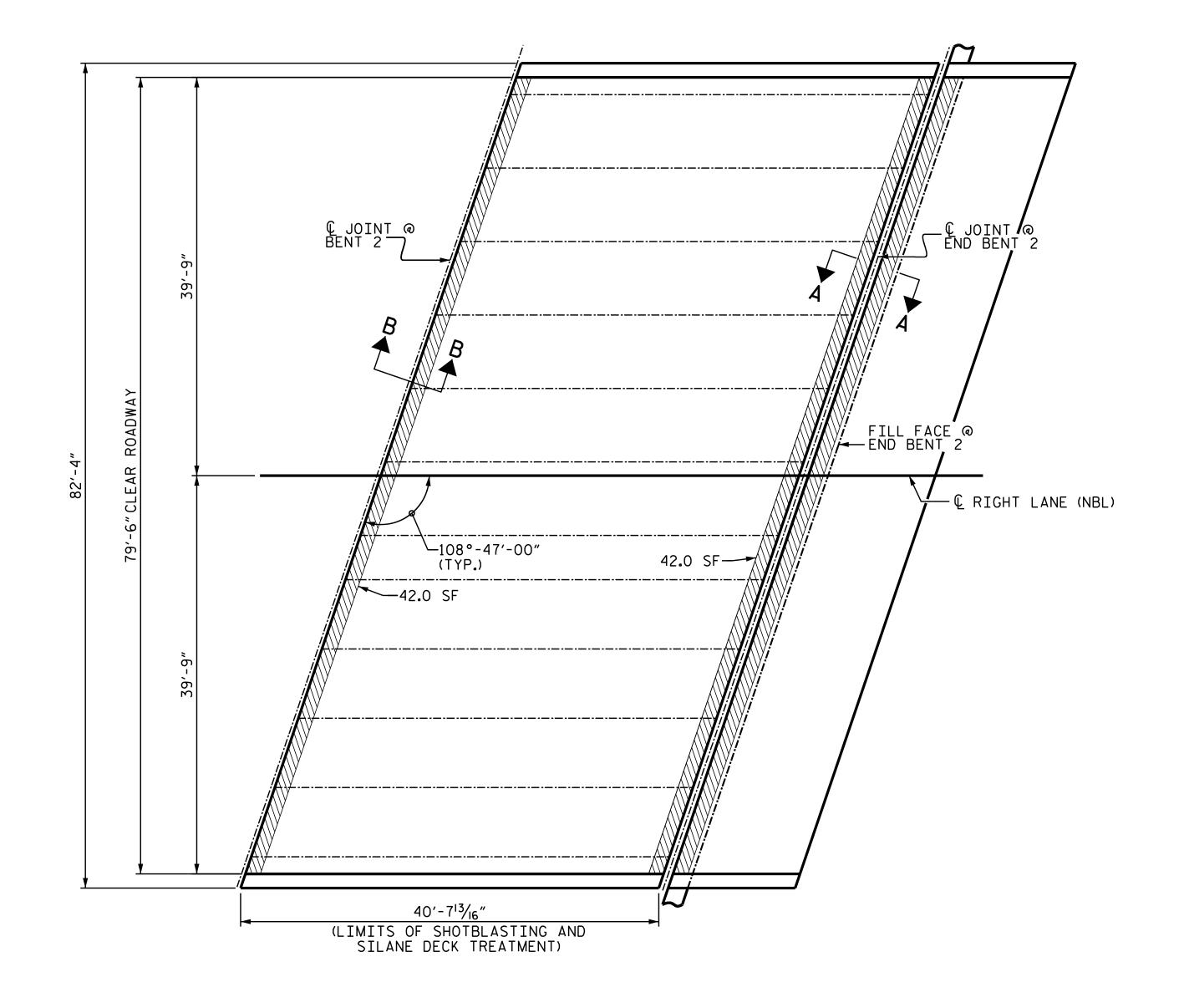
PLAN OF SPAN B RIGHT LANE (NBL)



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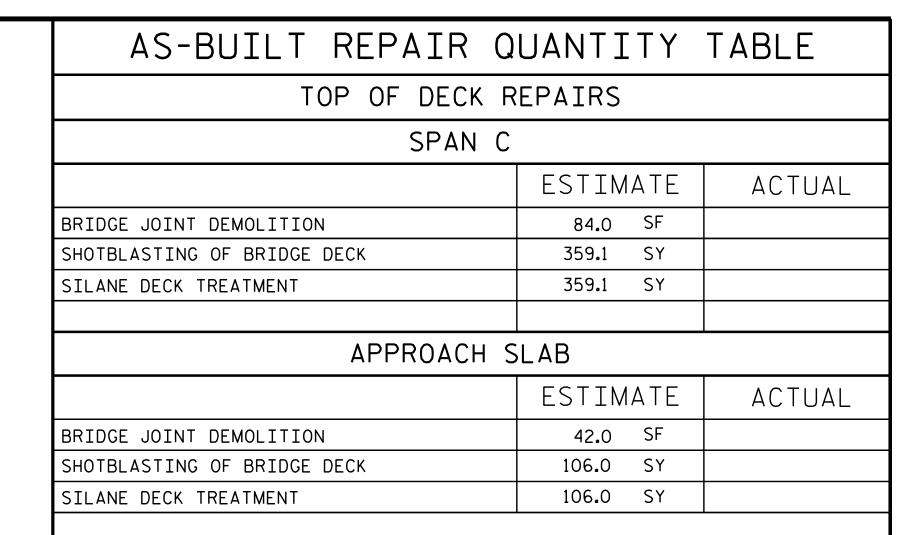


### NOTES

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

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WWW BRIDGE JOINT DEMOLITION

PROJECT NO. I-5838

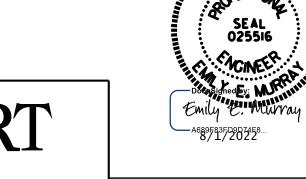
MECKLENBURG COUNTY

BRIDGE NO. 590203

SHEET 3 OF 3

DEPARTMENT OF TRANSPORTATION
RALEIGH

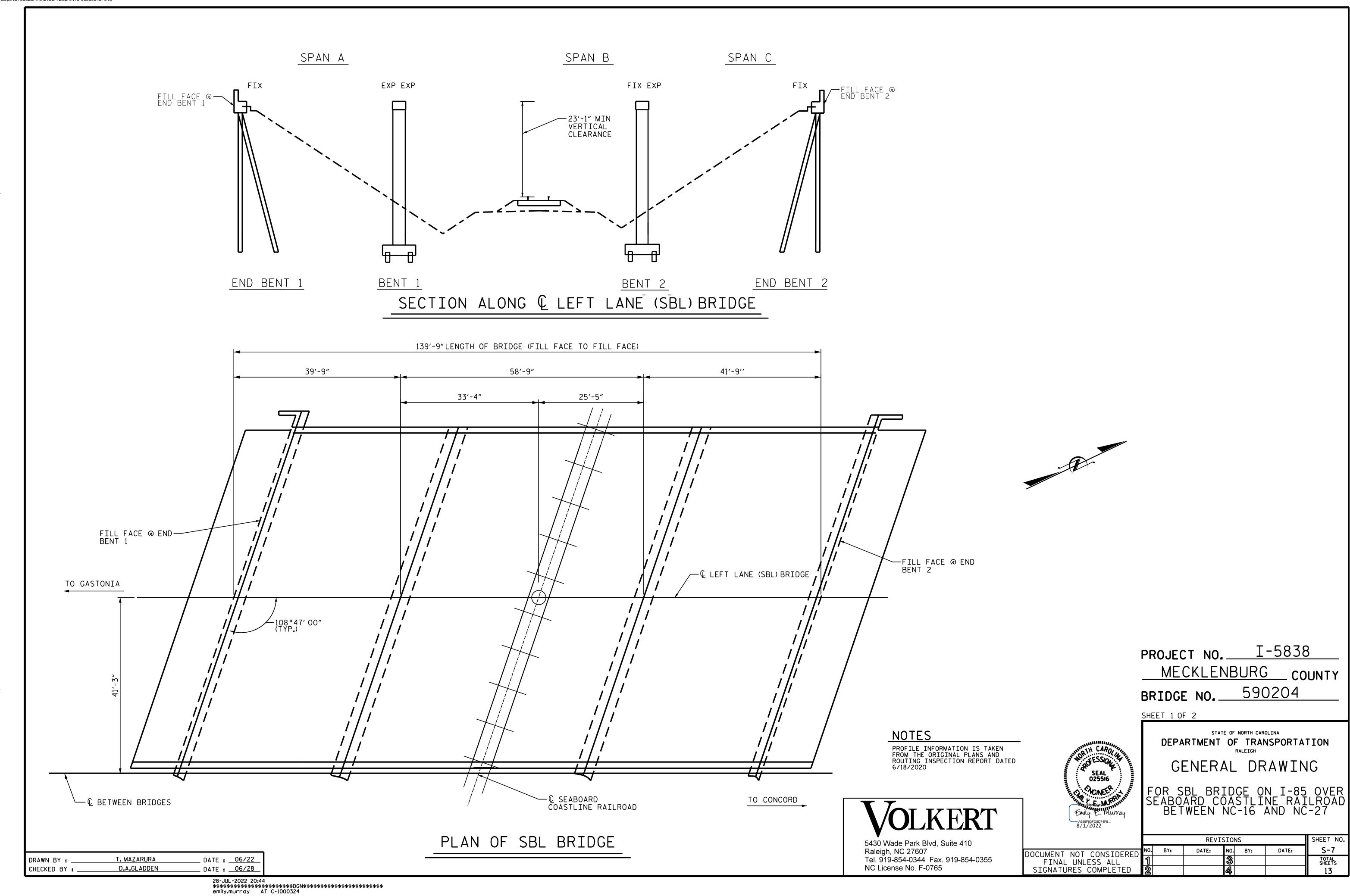
PLAN OF SPAN C RIGHT LANE (NBL)

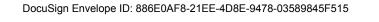


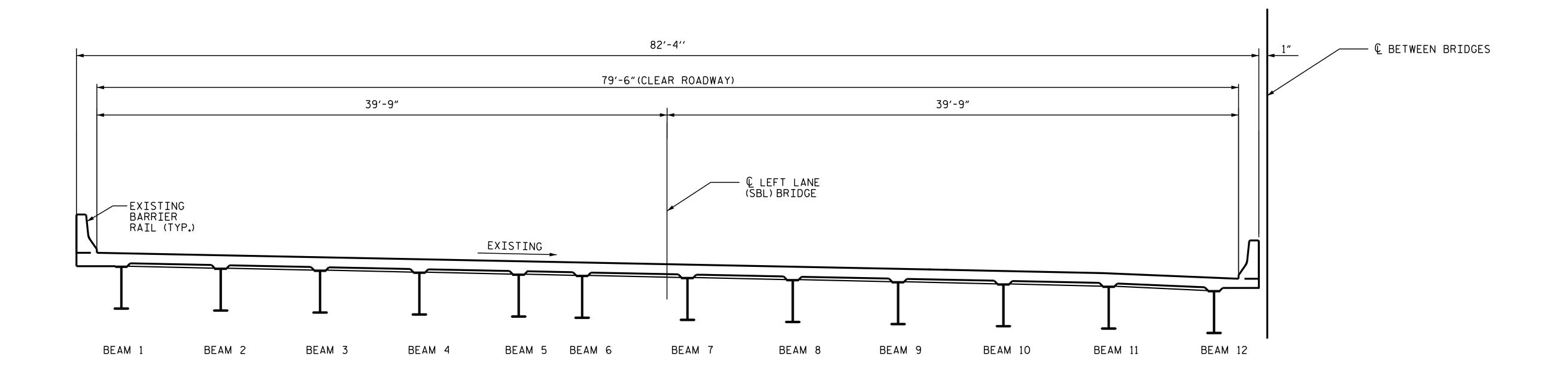
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|     |           | 3   |     |       | TOTAL<br>SHEETS |
|     |           | 4   |     |       | 13              |

DRAWN BY: J.BRYANT DATE: 6/06
CHECKED BY: D.A.GLADDEN DATE: 6/22







### EXISTING TYPICAL SECTION

NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH 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 ADJUST THE ACTUAL QUNTITES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

PROJECT NO. I-5838 MECKLENBURG COUNTY 590204 STATION:\_\_

CHONEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION LEFT LANE (SBL)

SHEET NO.

S-8

TOTAL SHEETS

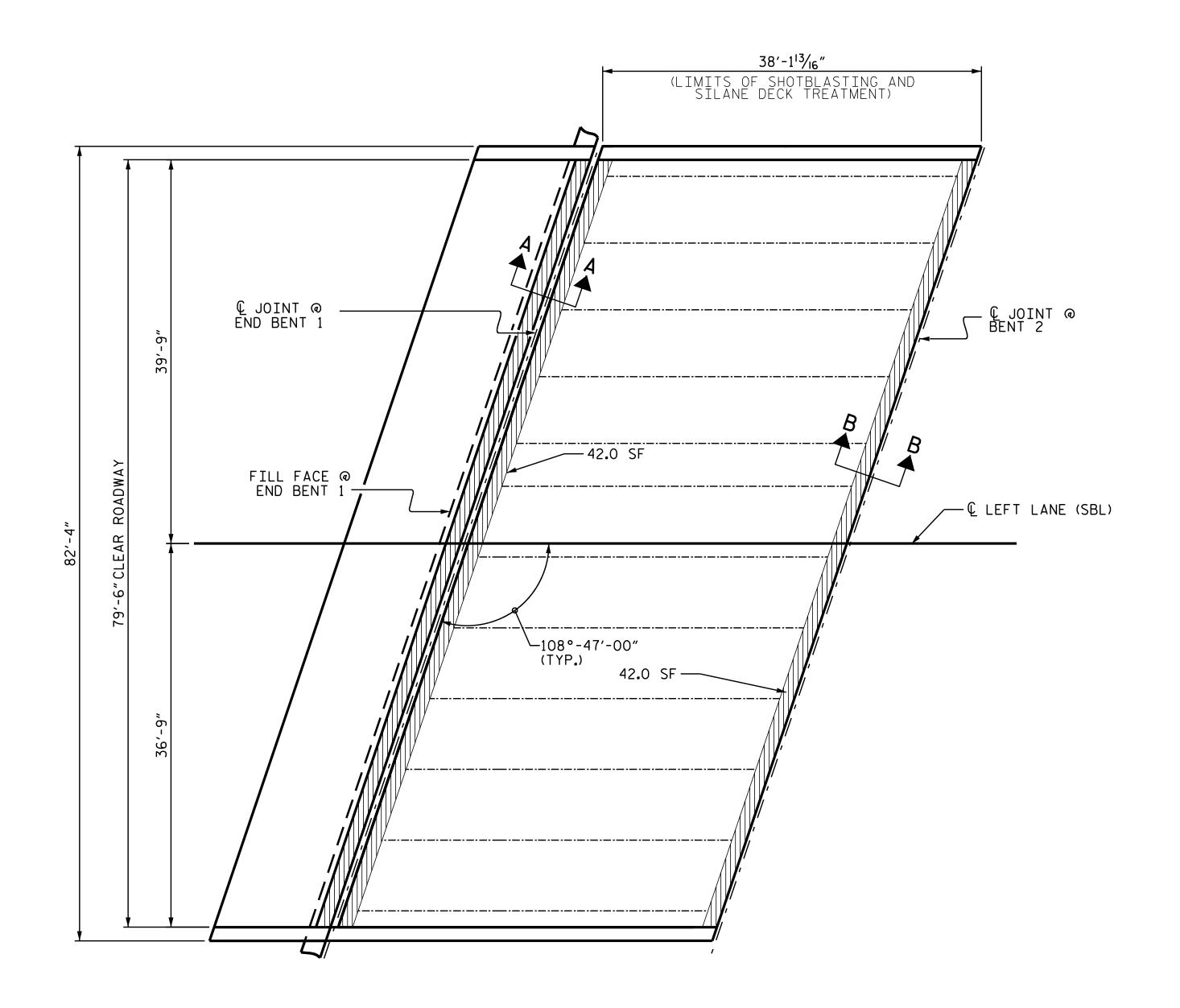
DATE:

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T. MAZARURA \_ DATE : <u>06/22</u> DRAWN BY : \_ D.A.GLADDEN \_ DATE : <u>06/28</u> CHECKED BY : \_\_



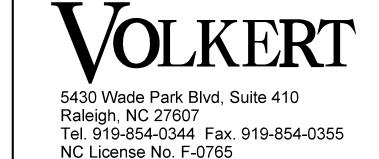
### PLAN OF SPAN A

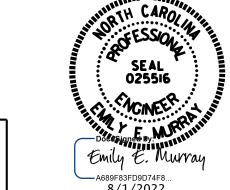
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FOR SECTION A-A AND B-B, SEE "JOINT REPAIR DETAILS" SHEET.

T.MAZARURA DATE: 6/15 CHECKED BY : D.A.GLADDEN DATE : 6/22





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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO REVISIONS S-9 NO. BY: DATE: BY: DATE: TOTAL SHEETS

AS-BUILT REPAIR QUANTITY TABLE

APPROACH SLAB @ END BENT 1

SPAN A

BRIDGE JOINT DEMOLITION

SHOTBLASTING OF BRIDGE DECK

BRIDGE JOINT DEMOLITION

SHOTBLASTING OF BRIDGE DECK

SILANE DECK TREATMENT

SILANE DECK TREATMENT

TOP OF DECK REPAIRS

ESTIMATE

42**.**0 SF

106**.**0 SY

106.0 SY

ESTIMATE

84.0 SF

337**.**0 SY

337**.**0 SY

BRIDGE JOINT DEMOLITION

ACTUAL

ACTUAL

PROJECT NO. I-5838 MECKLENBURG COUNTY BRIDGE NO. 590204

SHEET 1 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

PLAN OF SPAN A LEFT LANE (SBL)

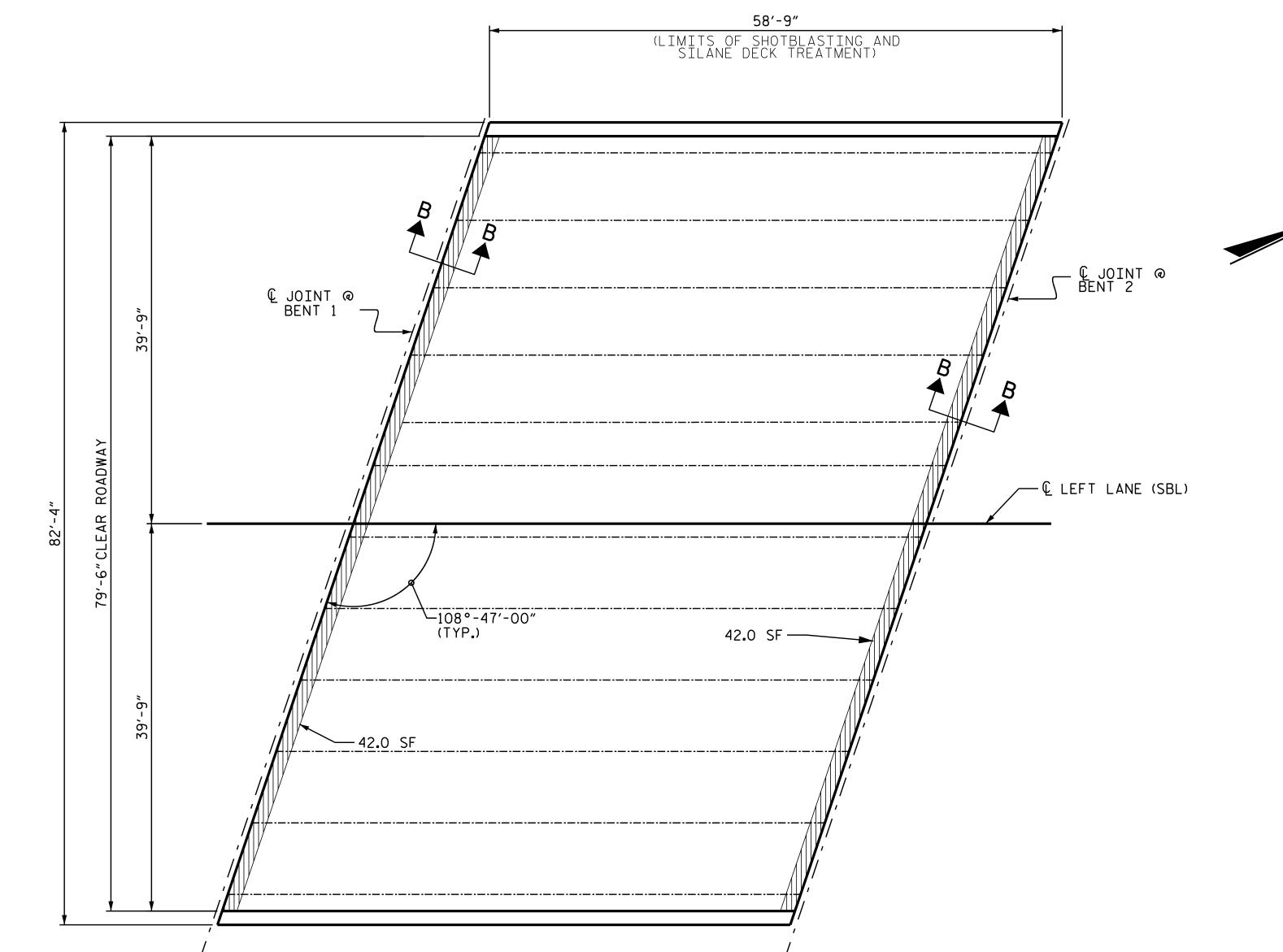
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AS-BUILT REPAIR QUANTITY TABLE TOP OF DECK REPAIRS SPAN B ESTIMATE BRIDGE JOINT DEMOLITION 84.0 SF

SHOTBLASTING OF BRIDGE DECK

BRIDGE JOINT DEMOLITION

SILANE DECK TREATMENT



PLAN OF SPAN B

### NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH 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 ADJUST THE ACTUAL QUNTITES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

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5430 Wade Park Blvd, Suite 410 Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765

PROJECT NO. I-5838 MECKLENBURG COUNTY BRIDGE NO. 590204

ACTUAL

519**.**0 SY

519**.**0 SY

SHEET 2 OF 3

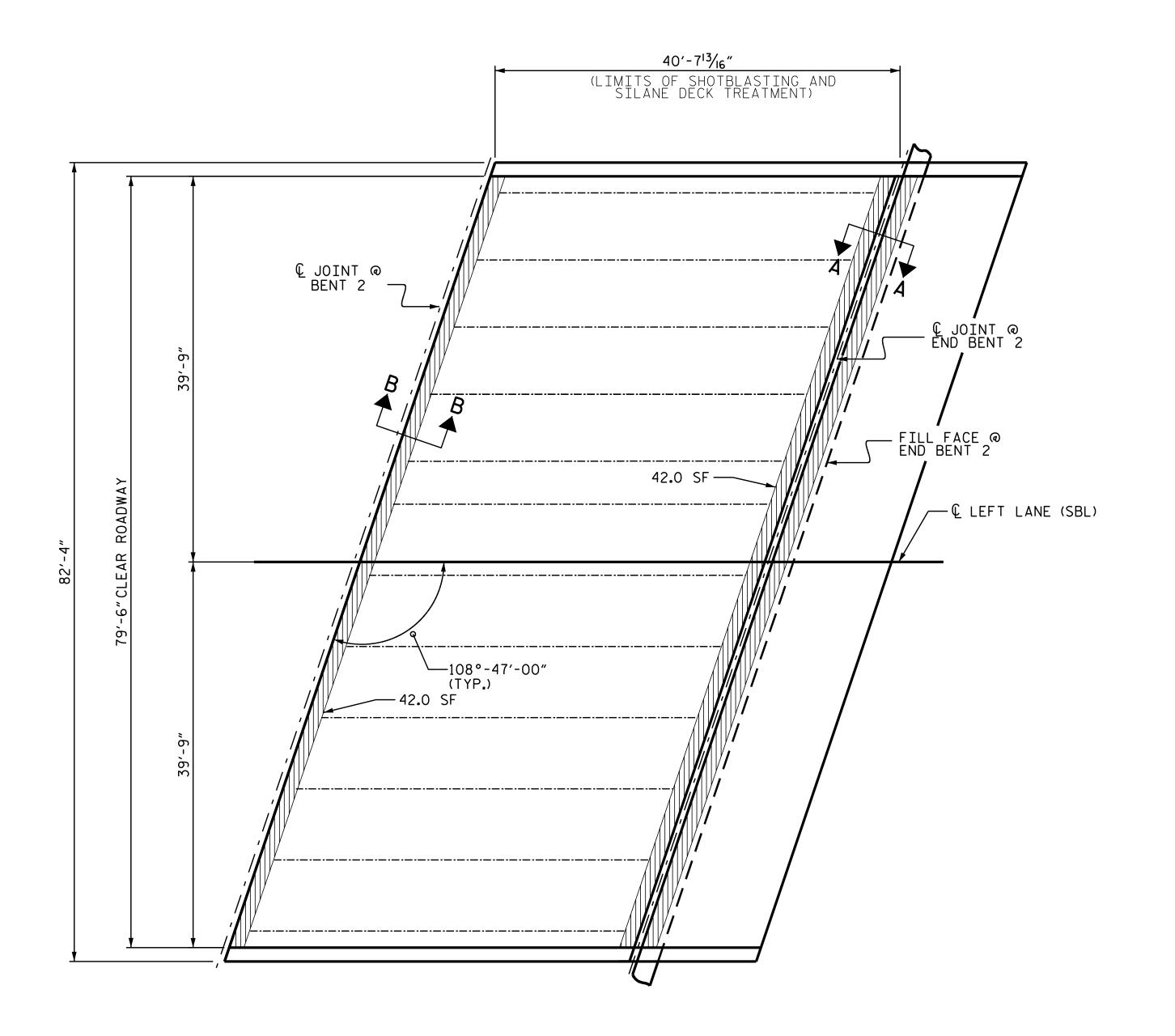
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLAN OF SPAN B LEFT LANE (SBL)

S-10

SHEET NO. REVISIONS DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED NO. BY: DATE: BY: DATE:

DRAWN BY: T. MAZARURA DATE: 6/15
CHECKED BY: D.A.GLADDEN DATE: 6/22



### PLAN OF SPAN C

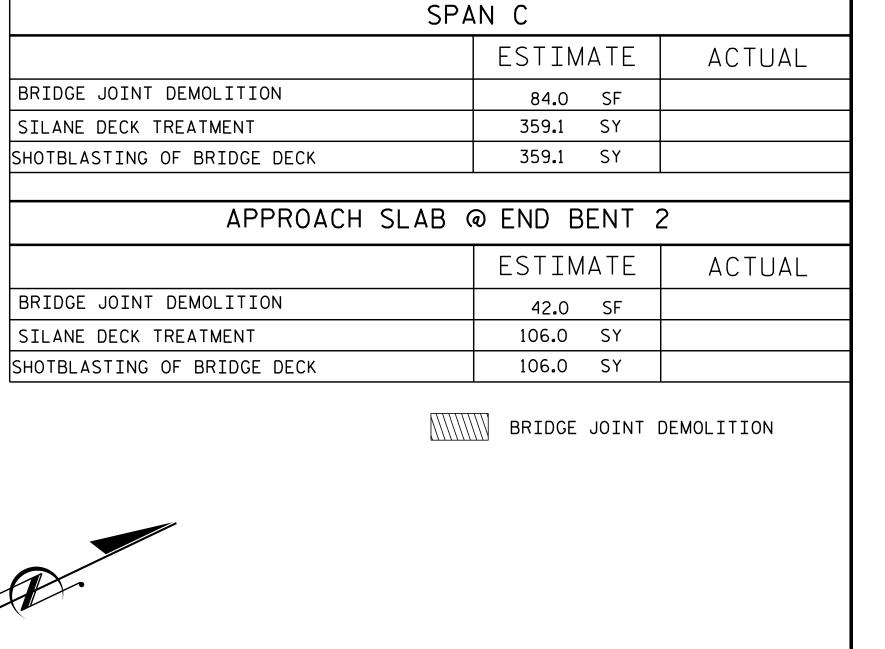
### NOTES

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH 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 ADJUST THE ACTUAL QUNTITES ENTERED INTO THE AS-BUILT REPAIR QUANTITY TABLE.

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

DRAWN BY: T. MAZARURA DATE: 6/15
CHECKED BY: D.A.GLADDEN DATE: 6/22

### 5430 Wade Park Blvd, Suite 410 Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765



AS-BUILT REPAIR QUANTITY TABLE

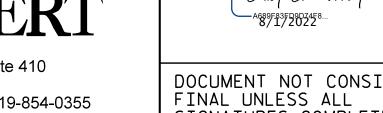
TOP OF DECK REPAIRS

PROJECT NO. I-5838 MECKLENBURG COUNTY BRIDGE NO. 590204

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

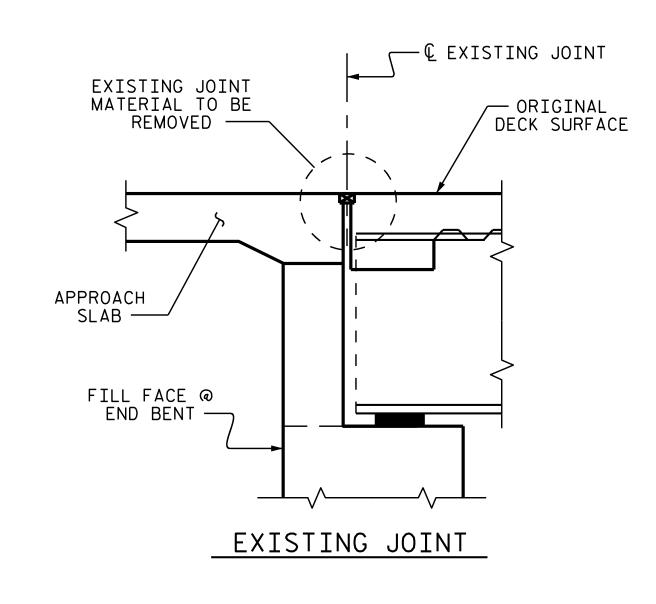
PLAN OF SPAN C LEFT LANE (SBL)

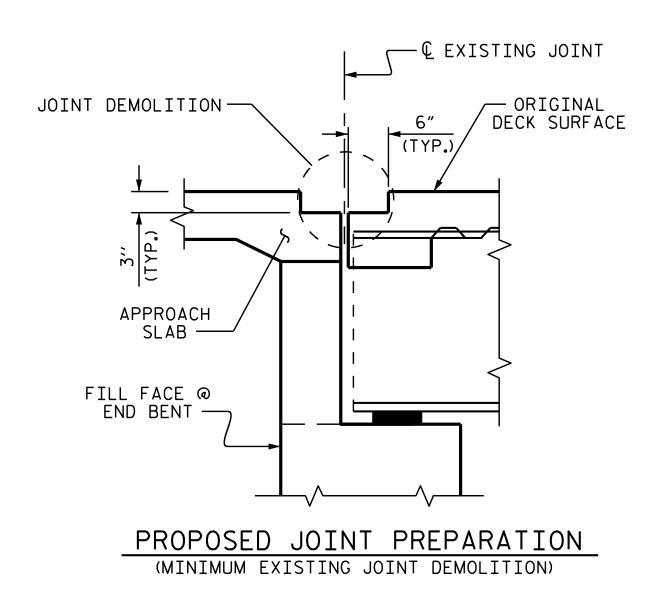


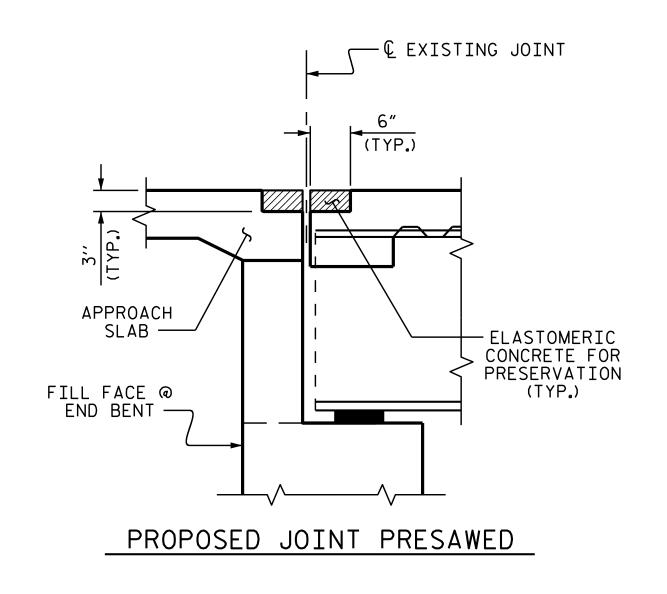
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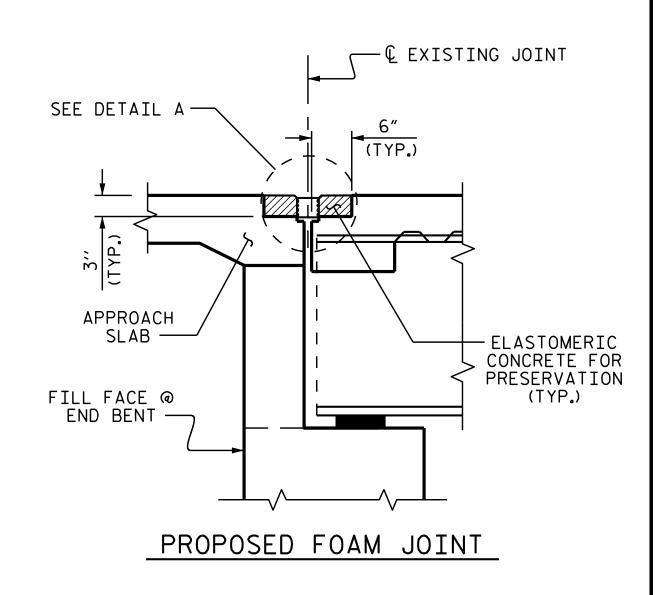
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|     |     | SHEET NO. |     |     |       |                 |
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| 10. | BY: | DATE:     | NO. | BY: | DATE: | S-11            |
| 1   |     |           | 3   |     |       | TOTAL<br>SHEETS |
| 2   |     |           | 4   |     |       | 13              |

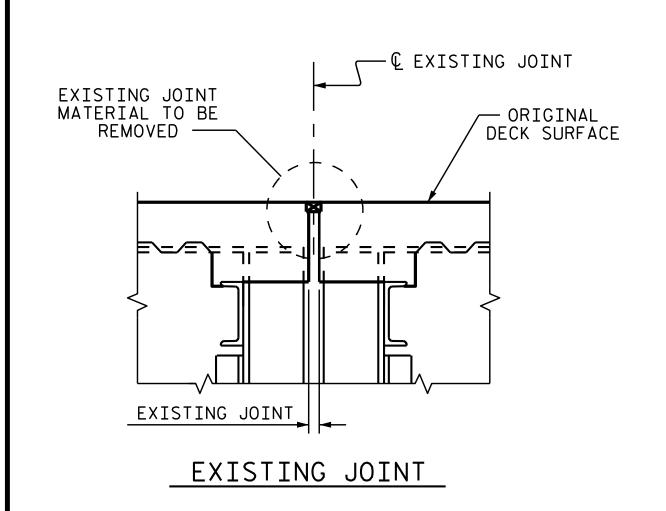


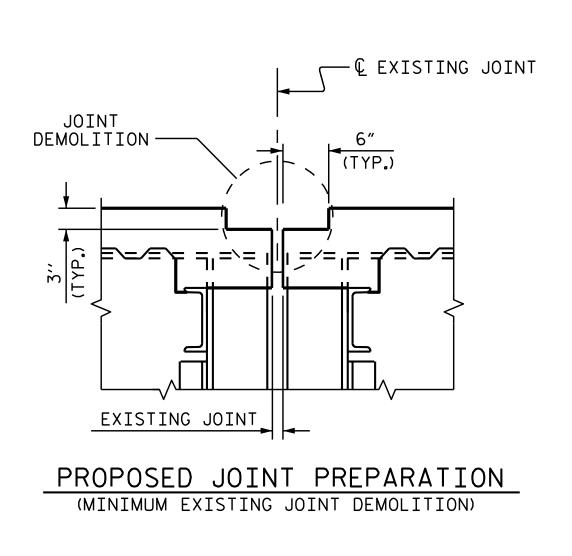


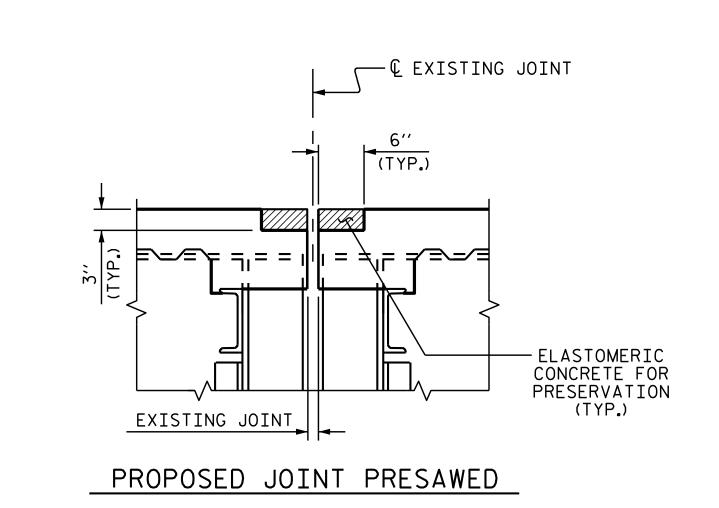


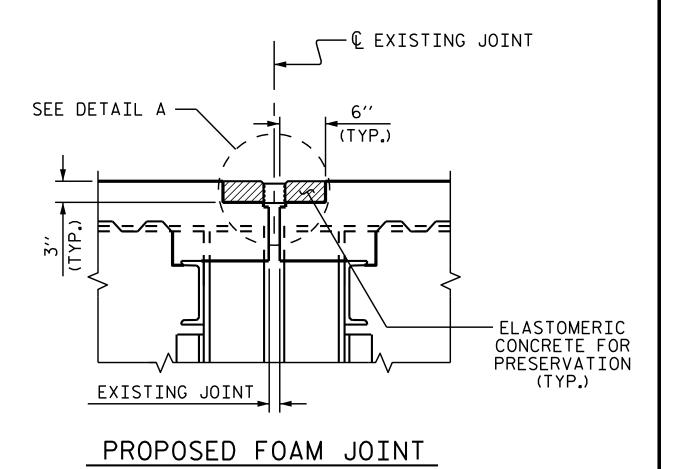


### JOINT INSTALLATION SEQUENCE AT END BENTS (SECTION A-A)









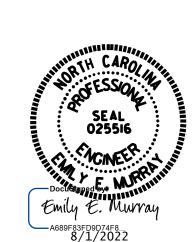
JOINT INSTALLATION SEQUENCE AT BENTS (SECTION B-B)

PROJECT NO. I-5838

MECKLENBURG COUNTY

BRIDGE NO. 59203 & 59204

SHEET 1 OF 2



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

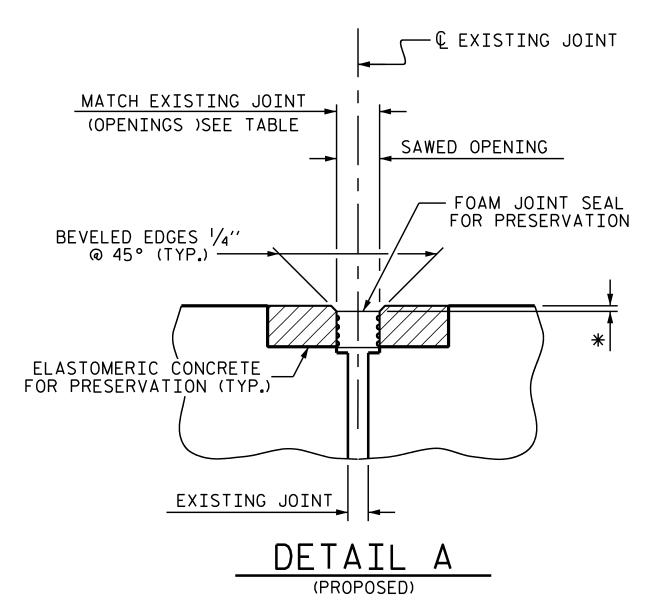
JOINT REPAIR DETAILS

5430 Wade Park Blvd, Suite 410 Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765

| OCUMENT NOT CONCEDED                    | NO. |   |
|---|-----|---|
| OCUMENT NOT CONSIDERED FINAL UNLESS ALL | 1   | - |
| SIGNATURES COMPLETED                    | 2   | _ |

|     |     | SHEET NO. |               |                     |       |                             |
|-----|-----|-----------|---------------|---------------------|-------|-----------------------------|
| NO. | BY: | DATE:     | NO.           | BY:                 | DATE: | S-12                        |
| 1   |     |           | 3             |                     |       | TOTAL<br>SHEETS             |
| 2   |     |           | 4             |                     |       | 13                          |
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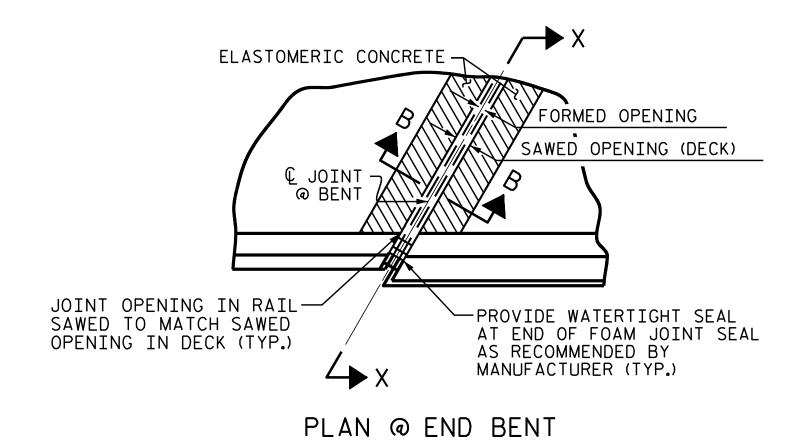
| DRAWN BY : _ | D. A. GLADDEN | DATE : | 6/22 |
|--------------|---------------|--------|------|
| CHECKED BY : | E.E.MURRAY    | DATE : | 7/22 |



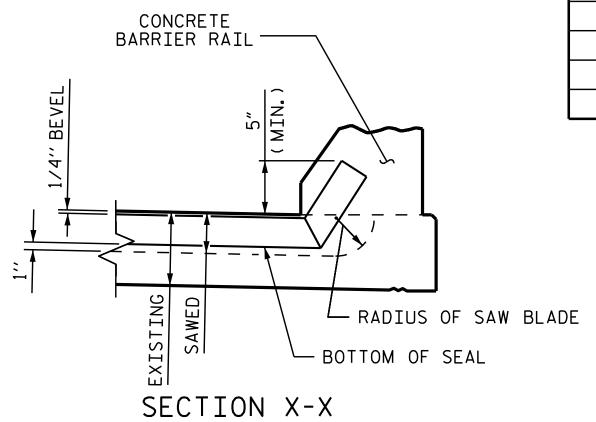
\* FOAM JOINT SEALS FOR PRESERVATION SHALL BE RECESSED AS PER MANUFACTURER'S RECOMMENDATIONS.

| SAWED JOINT OPENING TABLE |               |  |  |  |              |               |  |  |  |
|---------------------------|---------------|--|--|--|--------------|---------------|--|--|--|
| BRIDGE 59203              |               |  |  |  | BRIDGE 59204 |               |  |  |  |
| LOCATION                  | SKEW<br>ANGLE | PERPENDICULAR<br>JOINT OPENING<br>AT 30° | PERPENDICULAR<br>JOINT OPENING<br>AT 60° | PERPENDICULAR<br>JOINT OPENING<br>AT 90° | LOCATION     | SKEW<br>ANGLE | PERPENDICULAR<br>JOINT OPENING<br>AT 30° | PERPENDICULAR<br>JOINT OPENING<br>AT 60° | PERPENDICULAR<br>JOINT OPENING<br>AT 90° |
| END BENT 1                | 108°-47′-00″  | 2"                                       | 2"                                       | 2″                                       | END BENT 1   | 108°-47′-00″  | 2″                                       | 2″                                       | 2″                                       |
| BENT 1                    | 108°-47′-00″  | 21/2′′                                   | 25/ <sub>16</sub> "                      | 17/8″                                    | BENT 1       | 108°-47′-00″  | 21/2′′                                   | 2 <sup>5</sup> / <sub>16</sub> "         | 17/8"                                    |
| BENT 2                    | 108°-47′-00″  | 21/4"                                    | 2"                                       | 1¾"                                      | BENT 2       | 108°-47′-00″  | 21/4"                                    | 2"                                       | 1¾"                                      |
| END BENT 2                | 108°-47′-00″  | 2"                                       | 2″                                       | 2″                                       | END BENT 2   | 108°-47′-00″  | 2"                                       | 2"                                       | 2"                                       |

FROM EXISTING PLANS



ELASTOMERIC CONCRETE -FORMED OPENING SAWED OPENING (DECK) © JOINT @ BENT JOINT OPENING IN RAIL— SAWED TO MATCH SAWED OPENING IN DECK (TYP.) -PROVIDE WATERTIGHT SEAL AT END OF FOAM JOINT SEAL AS RECOMMENDED BY MANUFACTURER (TYP.) PLAN @ BENT



### JOINT SEAL DETAILS @ BENT

FOAM JOINT SEAL TO BE CUT, HEAT WELDED AND TURNED UP PARALLEL TO SLOPED FACE OF THE BARRIER RAIL.

\_ DATE : 6/22 D. A. GLADDEN DRAWN BY : \_ \_ DATE : 7/22 E.E.MURRAY CHECKED BY :

### 5430 Wade Park Blvd, Suite 410 Raleigh, NC 27607 Tel. 919-854-0344 Fax. 919-854-0355 NC License No. F-0765

### NOTES

FINAL JOINT SEALS SHALL NOT BE INSTALLED UNTIL THE SEALANT WORK IS COMPLETE.

THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING JOINT OPENING PRIOR TO ORDERING JOINT SEAL MATERIAL. IF THE ACTUAL JOINT OPENING VARIES FROM THE OPENING ALLOWED BY THE JOINT SEAL MATERIAL, NOTIFY THE ENGINEER. REVISION TO THE JOINT SEAL SIZE AND TYPE MIGHT BE NECESSARY.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINTS FOR THE JOINT SEALS IN LIEU OF SAWING THE JOINTS.

THE CONTRACTOR SHALL SAWCUT TO A NOMINAL DEPTH OF 1/2"BUT REINFORCING STEEL SHALL NOT BE DAMAGED. CONTRACTOR SHALL REMOVE SURFACE CONCRETE TO VERIFY THAT SAWCUT WILL NOT DAMAGE EXISTING REINFORCING STEEL.

FINAL SURFACE OF THE JOINT DEMOLITION AREA PRIOR TO PLACEMENT OF CONCRETE REPAIR MATERIAL OR ELASTOMERIC CONCRETE SHOULD BE REASONABLY FLAT AND LEVEL. ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF THE SURFACE PRIOR TO PLACEMENT OF REPAIR CONCRETE OR ELASTOMERIC CONCRETE.

QUANTITIES SHOWN IN THE ELASTOMERIC CONCRETE FOR PRESERVATION TABLE ARE BASED ON THE MINIMUM JOINT DEMOLITION SHOWN.

THE MANUFACTURER IS TO PROVIDE THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE FOAM SEAL FOR THE SIZE OF THE OPENING THE ON PLANS AND ACCOMMODATE THE MINIMUM EXPANSION SHOWN ON THE PLANS.

FOR FOAM JOINT SEALS FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOAM JOINT SEALS FOR PRESERVATION SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.

THE INSTALLED FOAM JOINT SEALS FOR PRESERVATION SHALL BE WATER TIGHT.

FOR ELASTOMERIC CONCRETE FOR PRESERVATION, SEE SPECIAL PROVISIONS.

FOR LOCATION OF SECTIONS A-A AND B-B, SEE PLAN OF SPAN SHEET.

| FOAM JOINT SEALS FOR PRESERVATION |                           |                     |                     |                     |  |  |  |
|-----------------------------------|---------------------------|---------------------|---------------------|---------------------|--|--|--|
|                                   | BRIDGE 59203 BRIDGE 59204 |                     |                     |                     |  |  |  |
|                                   | ESTIMATED (LIN.FT.)       | ACTUAL<br>(LIN.FT.) | ESTIMATED (LIN.FT.) | ACTUAL<br>(LIN.FT.) |  |  |  |
| END BENT 1                        | 85.0                      |                     | 85.0                |                     |  |  |  |
| BENT 1                            | 85.0                      |                     | 85.0                |                     |  |  |  |
| BENT 2                            | 85.0                      |                     | 85.0                |                     |  |  |  |
| END BENT 2                        | 85.0                      |                     | 85.0                |                     |  |  |  |
| TOTAL                             | 340.0                     |                     | 340.0               |                     |  |  |  |

| ELASTOMERIC CONCRETE FOR PRESERVATION |                           |                     |                    |                    |  |  |  |
|---------------------------------------|---------------------------|---------------------|--------------------|--------------------|--|--|--|
|                                       | BRIDGE 59203 BRIDGE 59204 |                     |                    |                    |  |  |  |
|                                       | ESTIMATED (CU.FT.)        | ACTUAL<br>(CU. FT.) | ESTIMATED (CU.FT.) | ACTUAL<br>(CU.FT.) |  |  |  |
| END BENT 1                            | 21.0                      |                     | 21.0               |                    |  |  |  |
| BENT 1                                | 21.0                      |                     | 21.0               |                    |  |  |  |
| BENT 2                                | 21.0 21.0                 |                     |                    |                    |  |  |  |
| END BENT 2                            | 21.0 21.0                 |                     |                    |                    |  |  |  |
| TOTAL                                 | 84.0                      |                     | 84.0               |                    |  |  |  |

PROJECT NO. I-5838 MECKLENBURG BRIDGE NO.59203 & 59204

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

> JOINT REPAIR DETAILS

| DOCUMENT NOT CONSIDERED | NO. | BY: |  |
|-------------------------|-----|-----|--|
| FINAL UNLESS ALL        | 1   |     |  |
| SIGNATURES COMPLETED    | 2   |     |  |

Emily E. Murro

DOCUM

|   | SHEET I |     |     |       |                 |
|---|---------|-----|-----|-------|-----------------|
| 3 | DATE:   | NO. | BY: | DATE: | S-13            |
|   |         | 3   |     |       | TOTAL<br>SHEETS |
|   |         | 4   |     |       | 13              |

### STANDARD NOTES

### DESIGN DATA:

### MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2018 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N. C. DEPARTMENT OF TRANSPORTATION.

(MINIMUM)

EQUIVALENT FLUID PRESSURE OF EARTH - - - - 30 LBS. PER CU. FT.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

### CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

### CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 11/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

### DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

### ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.

ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

### REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

### STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE  $\frac{7}{8}$ " Ø SHEAR STUDS FOR THE  $\frac{3}{4}$ " Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 -  $\frac{7}{8}$ " Ø STUDS FOR 4 -  $\frac{3}{4}$ " Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF  $\frac{7}{8}$ " Ø STUDS ALONG THE BEAM AS SHOWN FOR  $\frac{3}{4}$ " Ø STUDS BASED ON THE RATIO OF 3 -  $\frac{7}{8}$ " Ø STUDS FOR 4 -  $\frac{3}{4}$ " Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-0".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16 INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

### HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

### SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

ENGLISH

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### DJ00489

### STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### MECKLENBURG COUNTY

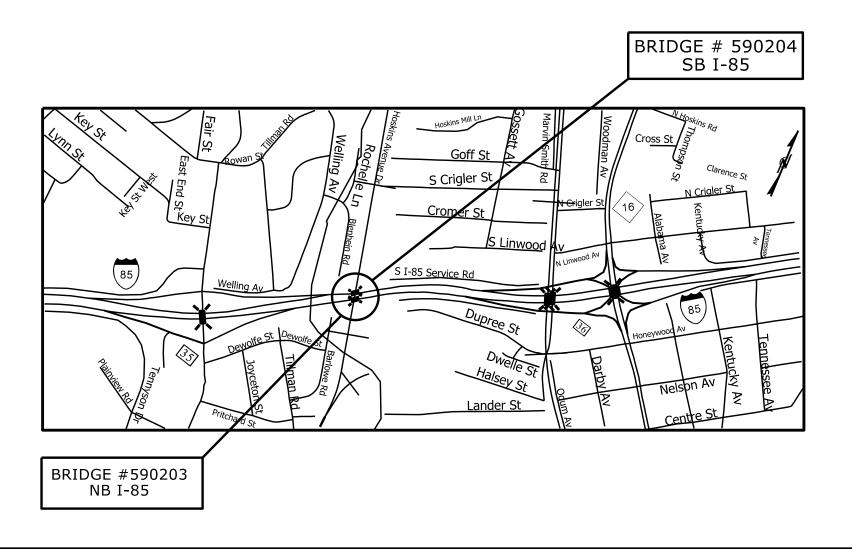
STATE PROJECT REFERENCE NO. SHEET TOTAL NO. SHEETS STATE N.C. I-5838 STATE PROLHO 53044.1.1 0085065 CONST.

**LOCATION**: I-85 NORTH AND SOUTH BOUND DIRECTIONS

OVER SEABOARD COASTLINE RAILROAD AT MP 35.77

TYPE OF WORK: BRIDGE REHABILITATION, SILANE DECK TREATMENT,

JOINT REPAIR



### DESIGN DATA

ADT 2020 = 108,000V = 60 MPH

DUAL

\* TTST =

### PROJECT LENGTH

LENGTH OF STRUCTURAL TIP PROJECT 53044.3.1 = 0.11 MILES

TOTAL LENGTH OF TIP PROJECT 53044.3.1 = 0.11 MILES

### Prepared in the Office of: **DIVISION OF HIGHWAYS**

2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE:

N/A LETTING DATE: OCTOBER 4, 2023

### DIVISION 10

JOHN H. EDMONDS

PROJECT ENGINEER

TIM SHERRILL, PE

PROIECT DESIGN ENGINEER



ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER



S I-85 Service Rd

Dupree St

TOTAL SHEETS

MAP

Welling Av

#1 NB I-85 BRIDGE #590203

#2 SB I-85 BRIDGE #590204

DESCRIPTION

FROM BEGIN BRIDGE DECK TO END BRIDGE DECK

85

Dwelle St

FROM BEGIN BRIDGE DECK TO END BRIDGE DECK

| <i>1−5838</i>              |  |  |
|----------------------------|--|--|
| I-85 BRIDGE REHABILITATION |  |  |
| MECKLENBURG COUNTY         |  |  |

| SCALE     | -NA- |
|-----------|------|
| DATE      | 3/22 |
| DWG. BY   | JHE  |
| DESIGN BY | JHE  |
| APPROVED  |      |

