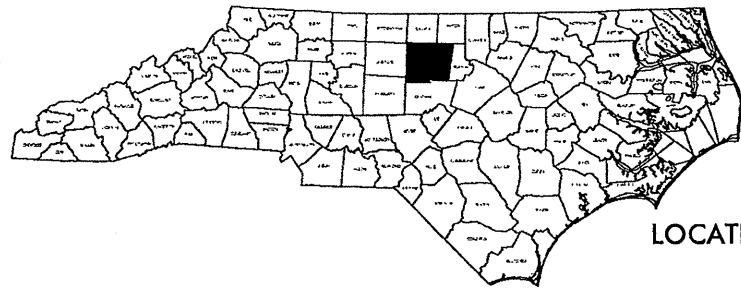


PROJECT: 17BP.7.P.5

CONTRACT NO: C203334

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

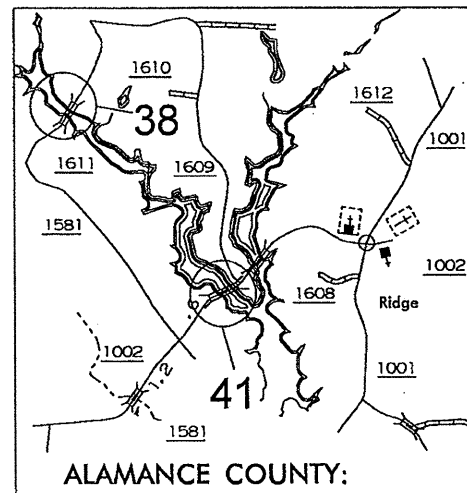
ALAMANCE AND ORANGE COUNTIES



| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------------------|-----------------------------|-------------|--------------|
| N.C. | 17BP.7.P.5 | 1 | |
| STATE PROJECT NO. | F.A.PROJ.NO. | DESCRIPTION | |
| 17BP.7.P.5 | N/A | PE | |
| 17BP.7.P.5 | N/A | CONSTR | |
| | | | |
| | | | |
| | | | |

LOCATION: ALAMANCE COUNTY:

BRIDGE #38 ON SR 1611 (SARTIN RD.) OVER STONY CREEK (LAKE BURLINGTON RESERVOIR)
 BRIDGE #41 ON SR 1002 (ALTAHAWHAW UNION RIDGE RD.) OVER STONY CREEK (LAKE BURLINGTON RESERVOIR)
 BRIDGE #52 ON SR 1729 (CAROLINA MILL RD.) OVER STONY CREEK
 BRIDGE #121 ON SR 1136 (BELLEMONT-MT. HERMAN RD.) OVER STINKING QUARTER CREEK



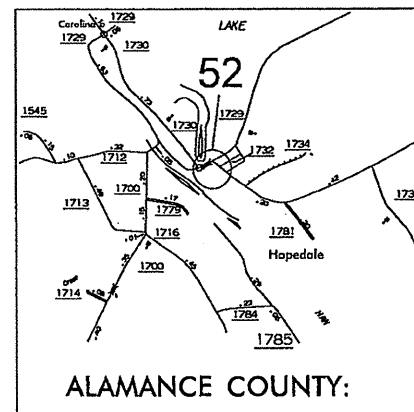
ALAMANCE COUNTY:

LOCATION: ORANGE COUNTY:

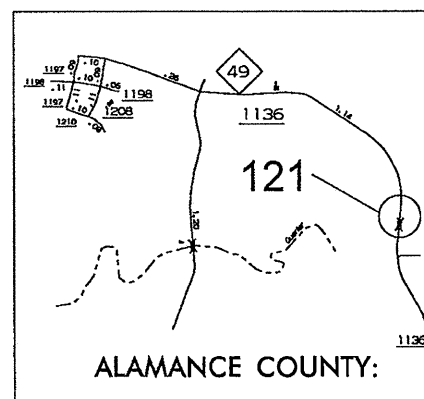
BRIDGE #6 ON US 70 BUS (S. CHURTON ST.) OVER ENO RIVER
 BRIDGE #59 ON NC 86 OVER I-85
 BRIDGE #81 NBL ON I-85 OVER SR 1006 (ORANGE GROVE RD.)
 BRIDGE #82 SBL ON I-85 OVER SR 1006 (ORANGE GROVE RD.)



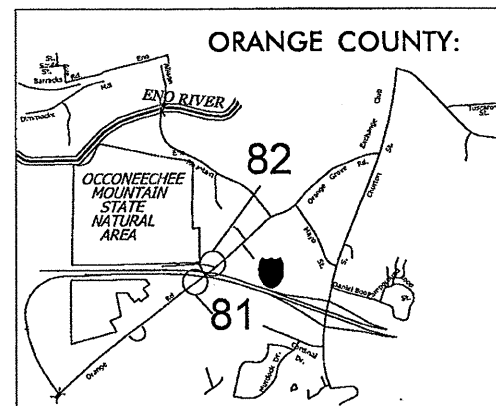
TYPE OF WORK: BRIDGE PRESERVATION - CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES, SUBSTRUCTURE REPAIRS



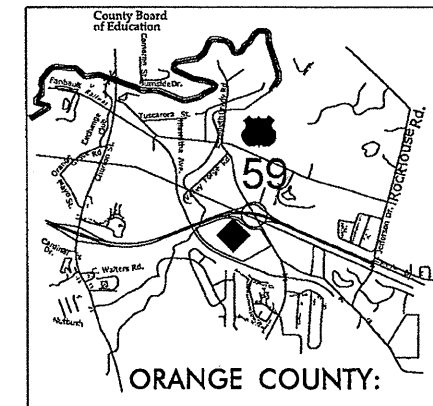
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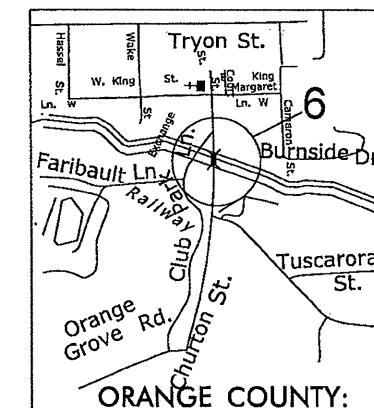
ALAMANCE COUNTY:



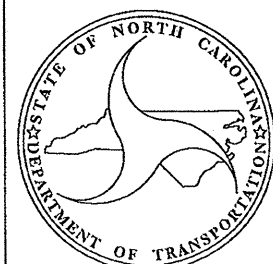
ORANGE COUNTY:



ORANGE COUNTY:



ORANGE COUNTY:



DESIGN DATA

| ORANGE | | ALAMANCE | |
|--------------|---------|---------------|--------|
| #6 ADT 2010 | = 19000 | #38 ADT 2008 | = 350 |
| #59 ADT 2009 | = 10500 | #41 ADT 2009 | = 950 |
| #81 ADT 2009 | = 19000 | #52 ADT 2009 | = 4200 |
| #82 ADT 2010 | = 19000 | #121 ADT 2009 | = 4500 |

PROJECT LENGTH

| ORANGE | | ALAMANCE | |
|------------|--------------|-------------|--------------|
| BRIDGE #6 | = 0.05 MILES | BRIDGE #38 | = 0.04 MILES |
| BRIDGE #59 | = 0.05 MILES | BRIDGE #41 | = 0.05 MILES |
| BRIDGE #81 | = 0.04 MILES | BRIDGE #52 | = 0.03 MILES |
| BRIDGE #82 | = 0.04 MILES | BRIDGE #121 | = 0.03 MILES |

Prepared in the Office of:
STRUCTURES MANAGEMENT UNIT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2012 STANDARD SPECIFICATIONS

LETTING DATE:
JUNE 18, 2013

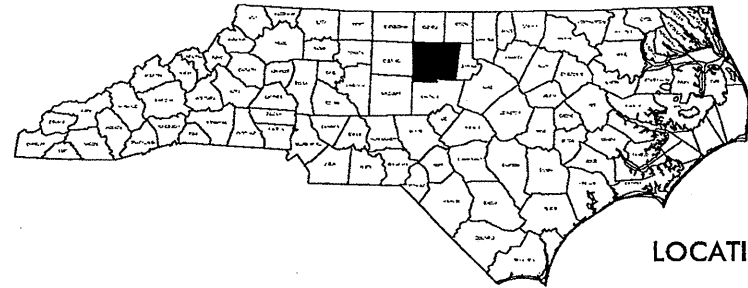
RICK NELSON, PE
PROJECT ENGINEER



FARZIN ASEFNIA P.E.
PROJECT DESIGN ENGINEER

PROJECT: 17BP.7.P.5

CONTRACT NO: C203334



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALAMANCE AND ORANGE COUNTIES

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-------------------|-----------------------------|-------------|--------------|
| N.C. | 17BP.7.P.5 | 1A | |
| STATE PROJECT NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 17BP.7.P.5 | N/A | PE | |
| 17BP.7.P.5 | N/A | CONSTR | |
| | | | |
| | | | |
| | | | |
| | | | |

LOCATION: ALAMANCE COUNTY:

- BRIDGE #38 ON SR 1611 (SARTIN RD.) OVER STONY CREEK (LAKE BURLINGTON RESERVOIR)
- BRIDGE #41 ON SR 1002 (ALTAMAHAW UNION RIDGE RD.) OVER STONY CREEK (LAKE BURLINGTON RESERVOIR)
- BRIDGE #52 ON SR 1729 (CAROLINA MILL RD.) OVER STONY CREEK
- BRIDGE #121 ON SR 1136 (BELLEMONT-MT. HERMAN RD.) OVER STINKING QUARTER CREEK

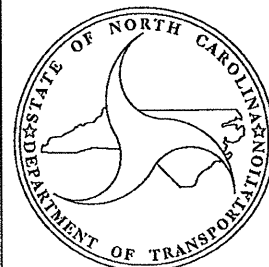
LOCATION: ORANGE COUNTY:

- BRIDGE #6 ON US 70 BUS (S. CHURTON ST.) OVER ENO RIVER
- BRIDGE #59 ON NC 86 OVER I-85
- BRIDGE #81 NBL ON I-85 OVER SR 1006 (ORANGE GROVE RD.)
- BRIDGE #82 SBL ON I-85 OVER SR 1006 (ORANGE GROVE RD.)

TYPE OF WORK: BRIDGE PRESERVATION – CLEANING & PAINTING OF EXISTING BRIDGE STRUCTURES, SUBSTRUCTURE REPAIRS

INDEX OF SHEETS

| <u>SHT#</u> | <u>DESCRIPTION</u> |
|------------------|--|
| 1 | TITLE SHEET |
| 1A | INDEX OF SHEETS |
| 2 | SUMMARY OF QUANTITIES |
| S-1 THRU S-8 | BILL OF MATERIAL AND SUBSTRUCTURE REPAIR PLANS |
| TMP-1 THRU TMP-3 | TRAFFIC MANAGEMENT PLANS |



Prepared in the Office of:
STRUCTURES MANAGEMENT UNIT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2012 STANDARD SPECIFICATIONS

| | |
|--------------------------------|-------------------------------------|
| LETTING DATE: JUNE 18, 2013 | RICK NELSON, PE PROJECT ENGINEER |
|--------------------------------|-------------------------------------|

FARZIN ASEFNIA P.E.
PROJECT DESIGN ENGINEER

5/28/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203334

| ItemNumber | Sec # | Quantity | Unit | Description |
|--------------|-------|----------|------|--|
| 0000100000-N | 800 | Lump Sum | | MOBILIZATION |
| 4400000000-E | 1110 | 48 | SF | WORK ZONE SIGNS (STATIONARY) |
| 4405000000-E | 1110 | 224 | SF | WORK ZONE SIGNS (PORTABLE) |
| 4415000000-N | 1115 | 1 | EA | FLASHING ARROW BOARD |
| 4422000000-N | 1120 | 30 | DAY | PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM) |
| 4430000000-N | 1130 | 100 | EA | DRUMS |
| 4435000000-N | 1135 | 50 | EA | CONES |
| 4450000000-N | 1150 | 160 | HR | FLAGGER |
| 4480000000-N | 1165 | 1 | EA | TMA |
| 4510000000-N | SP | 80 | HR | LAW ENFORCEMENT |
| 8296000000-N | 442 | Lump Sum | | POLLUTION CONTROL |
| 8660000000-E | SP | 6.5 | CF | CONCRETE REPAIRS |
| 8664000000-E | SP | 405 | CF | SHOTCRETE REPAIRS |
| 8678000000-E | SP | 79.5 | LF | EPOXY RESIN INJECTION |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ALAMANCE CO BRIDGE #121 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ALAMANCE CO BRIDGE #38 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ALAMANCE CO BRIDGE #41 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ALAMANCE CO BRIDGE #52 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ORANGE CO BRIDGE #59 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ORANGE CO BRIDGE #6 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ORANGE CO BRIDGE #81 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM CLEANING & REPAINTING ORANGE CO BRIDGE #82 |

| ItemNumber | Sec # | Quantity | Unit | Description |
|--------------|-------|----------|------|---|
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ALAMANCE CO BRIDGE #121 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ALAMANCE CO BRIDGE #38 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ALAMANCE CO BRIDGE #41 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ALAMANCE CO BRIDGE #52 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ORANGE CO BRIDGE #59 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ORANGE CO BRIDGE #6 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ORANGE CO BRIDGE #81 |
| 8860000000-N | SP | Lump Sum | | GENERIC STRUCTURE ITEM PAINTING CONTAINMENT ORANGE CO BRIDGE #82 |
| 8889000000-E | SP | 1,400 | LB | GENERIC STRUCTURE ITEM STRUCTURAL STEEL FOR GIRDER REPAIR |
| 8892000000-E | SP | 553 | SF | GENERIC STRUCTURE ITEM EPOXY COATING |
| 8897000000-N | SP | 8 | EA | GENERIC STRUCTURE ITEM BRIDGE JACKING BRIDGE #6 |
| 8897000000-N | SP | 5 | EA | GENERIC STRUCTURE ITEM TEMPORARY WORK PLATFORM |

| TOTAL BILL OF MATERIAL | | | | | | | |
|---------------------------------------|---|---------------------------------------|--------------------------------------|---------------------------------------|-------------------------------------|--|--------------------------------------|
| ORANGE COUNTY | | | | | | | |
| POLLUTION CONTROL | STRUCTURAL STEEL FOR GIRDER REPAIR [▲] | CLEANING AND REPAINTING OF BRIDGE #59 | PAINTING CONTAINMENT FOR BRIDGE #59 | CLEANING AND REPAINTING OF BRIDGE #81 | PAINTING CONTAINMENT FOR BRIDGE #81 | CLEANING AND REPAINTING OF BRIDGE #82 | PAINTING CONTAINMENT FOR BRIDGE #82 |
| LUMP SUM | LBS | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM |
| LUMP SUM | 1,400 | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM |
| ORANGE COUNTY BRIDGE NO. 6 | | | | | | | |
| CONCRETE REPAIRS | SHOTCRETE REPAIRS | EPOXY RESIN INJECTION | CLEANING AND REPAINTING OF BRIDGE #6 | PAINTING CONTAINMENT FOR BRIDGE #6 | TEMPORARY WORK PLATFORM | EPOXY COATING | BRIDGE JACKING BRIDGE #6 |
| CU. FT. | CU. FT. | LF | LUMP SUM | LUMP SUM | EA | SO. FT. | EA |
| 6.5 | 405.0 | 79.5 | LUMP SUM | LUMP SUM | 5 | 553 | 8 |
| ALAMANCE COUNTY | | | | | | | |
| CLEANING AND REPAINTING OF BRIDGE #38 | PAINTING CONTAINMENT FOR BRIDGE #38 | CLEANING AND REPAINTING OF BRIDGE #41 | PAINTING CONTAINMENT FOR BRIDGE #41 | CLEANING AND REPAINTING OF BRIDGE #52 | PAINTING CONTAINMENT FOR BRIDGE #52 | CLEANING AND REPAINTING OF BRIDGE #121 | PAINTING CONTAINMENT FOR BRIDGE #121 |
| LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM |
| LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM | LUMP SUM |

▲ FOR INFORMATION ONLY. ACTUAL QUANTITY WILL BE DETERMINED IN THE FIELD.

NOTES

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

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

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

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

PROJECT NO. 17BP.7.P.5
 ALAMANCE AND
ORANGE COUNTIES
 STATION: N/A

| | | | | | |
|--|-----|-------|-----|-----|-------------------|
| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | | |
| TOTAL BILL OF MATERIAL | | | | | |
| REVISIONS | | | | | SHEET NO. |
| NO. | BY: | DATE: | NO. | BY: | DATE: |
| 1 | | | 3 | | |
| 2 | | | 4 | | |
| | | | | | S-1 |
| | | | | | TOTAL SHEETS 8 |



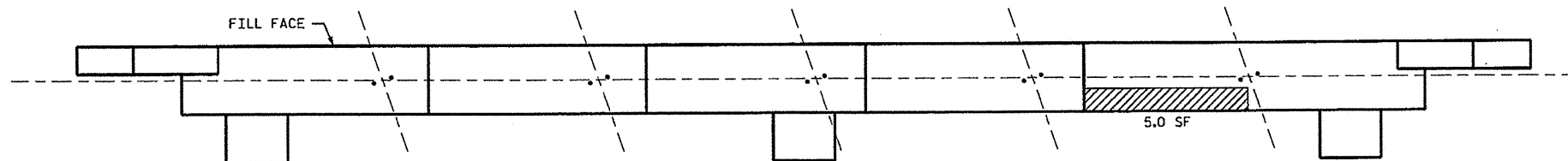
DRAWN BY: J. YANACCONI DATE: 2/13
 CHECKED BY: F. ASEFNIA DATE: 2/13

NOTE:

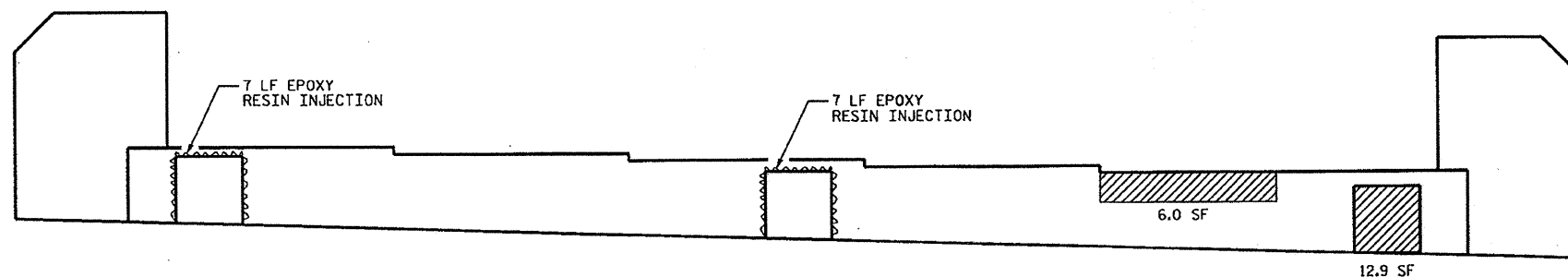
REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

FOR STRUCTURE REPAIRS, SEE SHEET S-8.

EPOXY COATING SHALL BE APPLIED TO THE TOP FACE OF THE END BENT CAP AND PILE CAPS.



PLAN



ELEVATION

- CONCRETE REPAIR
- SHOTCRETE REPAIR

| REPAIR QUANTITY TABLE | | | | |
|---------------------------------|------------|------------|----------|------------|
| REPAIRS END BENT 1 | QUANTITIES | | | |
| | ESTIMATE | | ACTUAL | |
| SHOTCRETE REPAIRS | AREA SF. | VOLUME CF. | AREA SF. | VOLUME CF. |
| CAP (VERTICAL FACE) | 6.0 | 3.5 | | |
| CAP (HORIZONTAL FACE) | 5.0 | 3.0 | | |
| PILE CAP (VERTICAL FACE) | 12.9 | 6.0 | | |
| PILE CAP (HORIZONTAL FACE) | 0 | 0 | | |
| CONCRETE REPAIRS | 0 | 0 | | |
| EPOXY RESIN INJECTION | | LN. FT. | | LN. FT. |
| CAP | | 0 | | |
| PILE CAP | | 14.0 | | |
| EPOXY COATING | | SQ. FT. | | SQ. FT. |
| TOP OF END BENT CAP & PILE CAPS | | 80 | | |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CL TO SAWCUT. SEE REPAIR DETAILS.

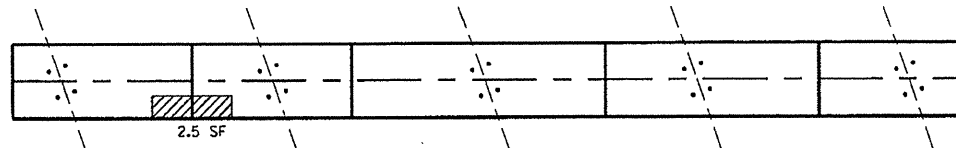
PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUBSTRUCTURE REPAIR
 END BENT 1



| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-2 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 8 |

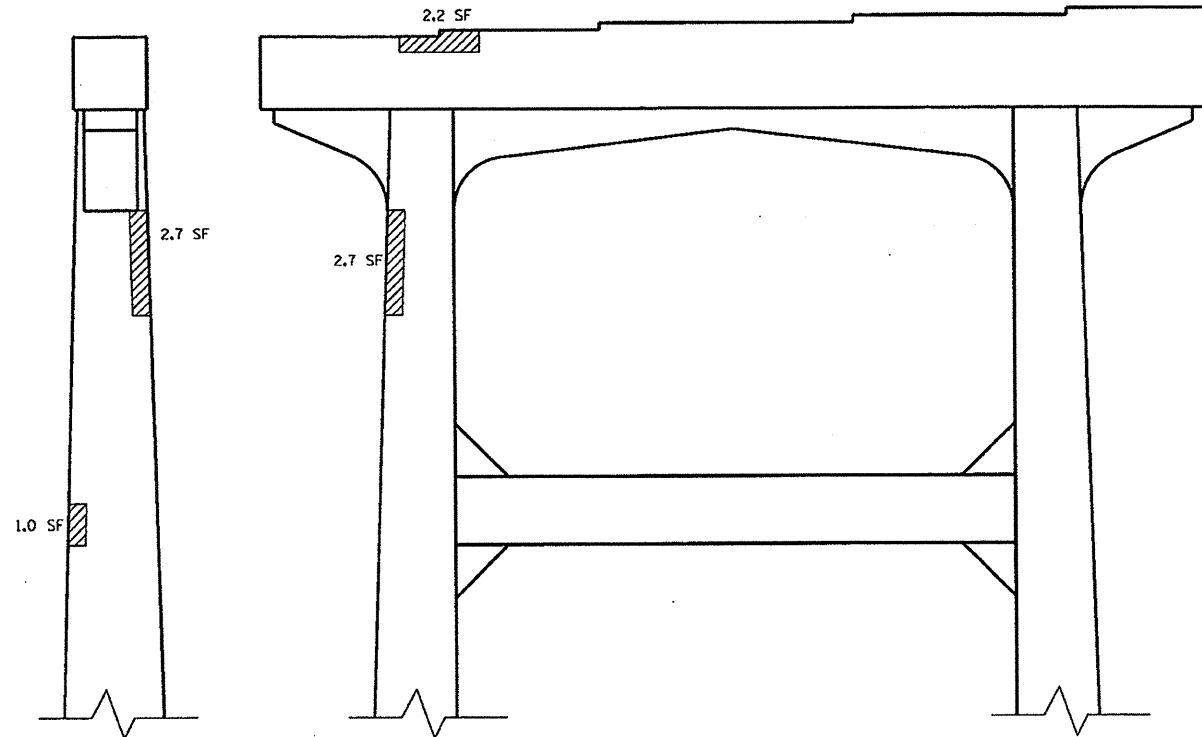
DRAWN BY: M WELDON DATE: 2/13
 CHECKED BY: J YANACCONO DATE: 2/13



PLAN

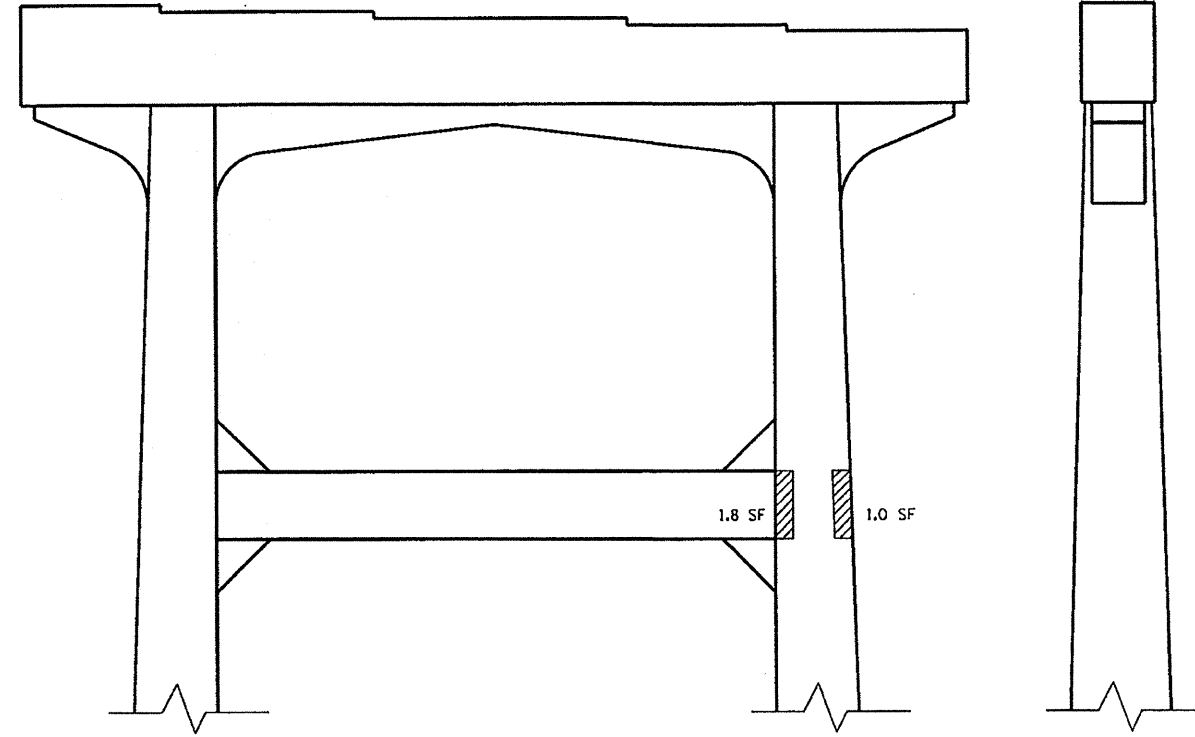
CONCRETE REPAIR

SHOTCRETE REPAIR



WEST FACE

SOUTH FACE



NORTH FACE

EAST FACE

| REPAIR QUANTITY TABLE | | | | |
|-------------------------|------------|------------|----------|------------|
| REPAIRS BENT 1 | QUANTITIES | | | |
| | ESTIMATE | | ACTUAL | |
| SHOTCRETE REPAIRS | AREA SF. | VOLUME CF. | AREA SF. | VOLUME CF. |
| CAP (VERTICAL FACE) | 2.2 | 1.5 | | |
| CAP (HORIZONTAL FACE) | 2.5 | 1.5 | | |
| COLUMN (VERTICAL FACE) | 9.2 | 5.5 | | |
| STRUT (HORIZONTAL FACE) | 0 | 0 | | |
| CONCRETE REPAIRS | 0 | 0 | | |
| EPOXY RESIN INJECTION | | LN. FT. | | LN. FT. |
| CAP | | 0 | | |
| COLUMN | | 0 | | |
| STRUT | | 0 | | |
| EPOXY COATING | | SO. FT. | | SO. FT. |
| TOP OF CAP | | 98 | | |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CL TO SAWCUT. SEE REPAIR DETAILS.

NOTE:

REPAIR LOCATIONS AND ESTIMATE 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 AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

FOR STRUCTURE REPAIRS, SEE SHEET S-8.

EPOXY COATING SHALL BE APPLIED TO THE TOP FACE OF THE BENT CAP.

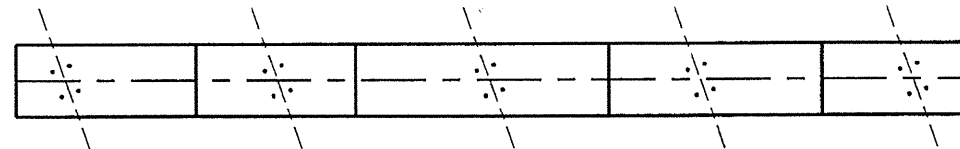
PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE REPAIR
 BENT 1



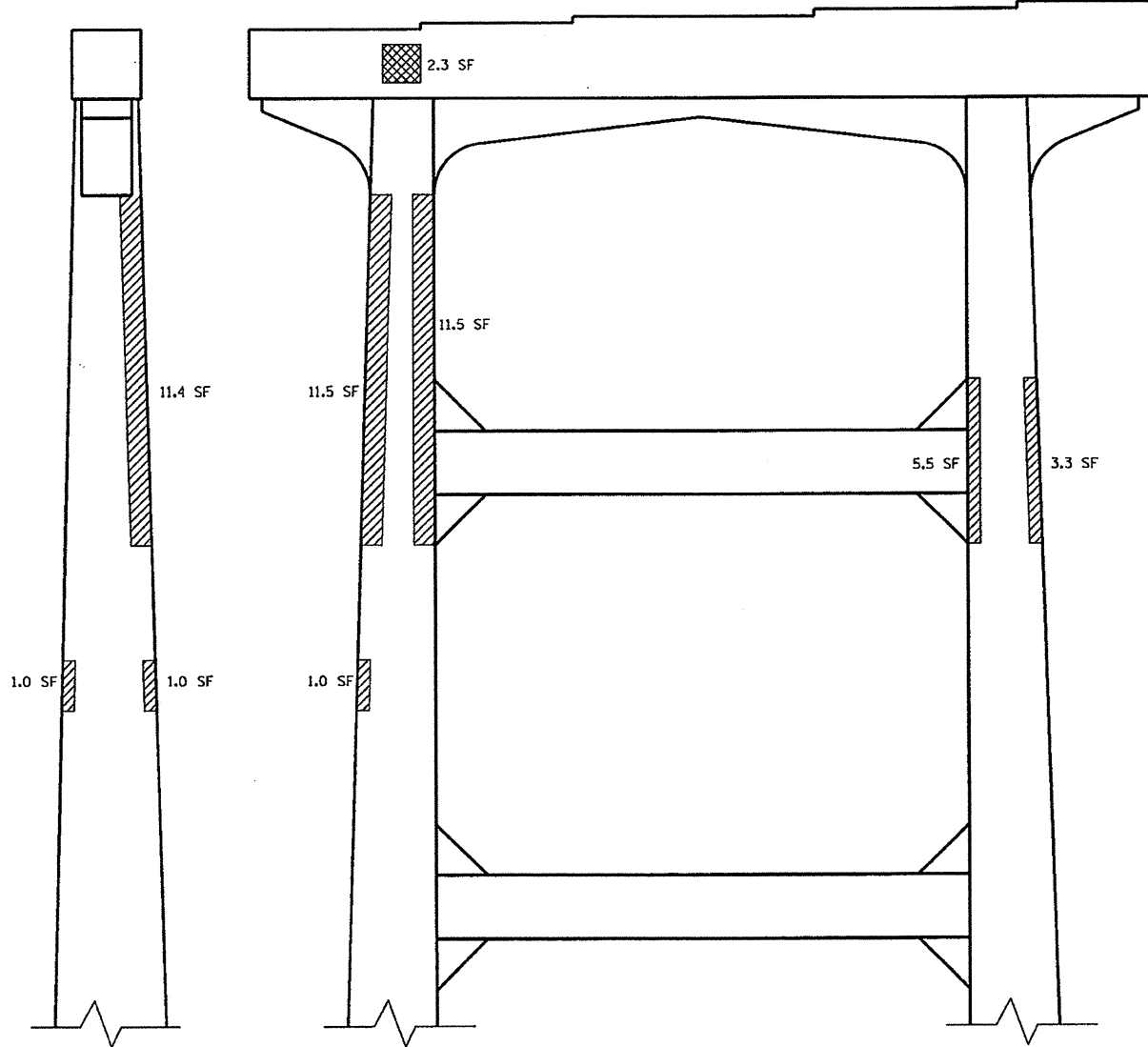
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|-----------|----|------|-----|----|------|--------------|
| NO. | BY | DATE | NO. | BY | DATE | S-3 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 8 |

DRAWN BY: N WELDON DATE: 2/13
 CHECKED BY: J YANACONE DATE: 2/13



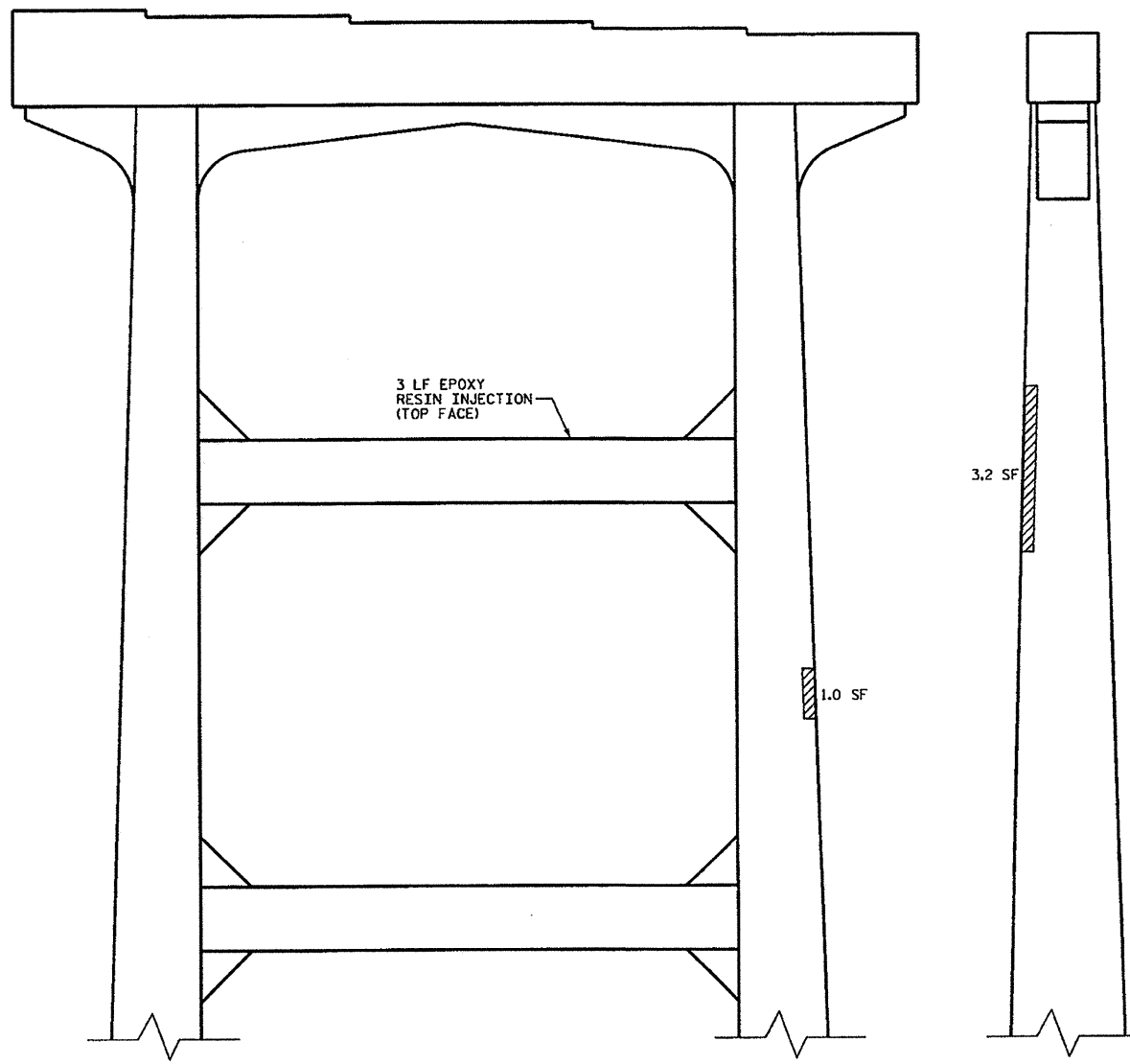
PLAN

CONCRETE REPAIR
 SHOTCRETE REPAIR



WEST FACE

SOUTH FACE



NORTH FACE

EAST FACE

| REPAIRS BENT 2 | QUANTITIES | | | |
|-------------------------|------------|------------|----------|------------|
| | ESTIMATE | | ACTUAL | |
| | AREA SF. | VOLUME CF. | AREA SF. | VOLUME CF. |
| SHOTCRETE REPAIRS | | | | |
| CAP (VERTICAL FACE) | 0 | 0 | | |
| CAP (HORIZONTAL FACE) | 0 | 0 | | |
| COLUMN (VERTICAL FACE) | 50.4 | 29.5 | | |
| STRUT (HORIZONTAL FACE) | 0 | 0 | | |
| CONCRETE REPAIRS | 2.3 | 0.75 | | |
| EPOXY RESIN INJECTION | | LN. FT. | | LN. FT. |
| CAP | | 0 | | |
| COLUMN | | 0 | | |
| STRUT | | 3.0 | | |
| EPOXY COATING | | SO. FT. | | SO. FT. |
| TOP OF CAP | | 98 | | |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CL TO SAWCUT. SEE REPAIR DETAILS.

NOTE:

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FOR STRUCTURE REPAIRS, SEE SHEET S-8.

EPOXY COATING SHALL BE APPLIED TO THE TOP FACE OF THE BENT CAP.

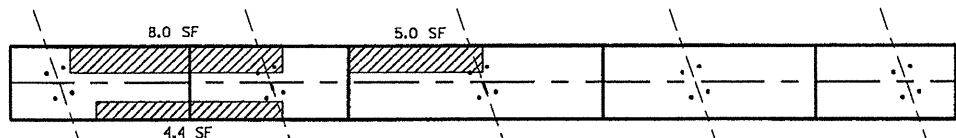
PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUBSTRUCTURE REPAIR
BENT 2



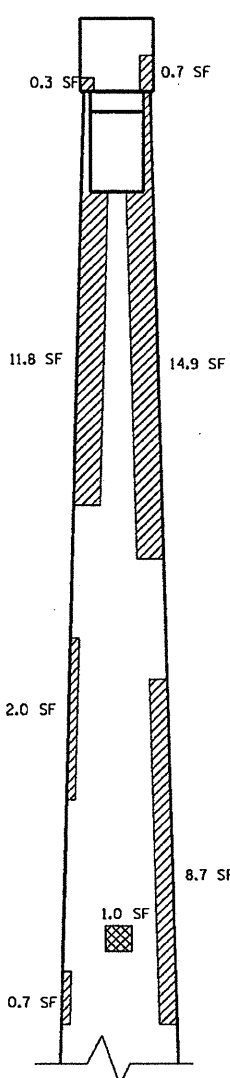
| REVISIONS | | | | | | SHEET NO. |
|-----------|----|------|-----|----|------|--------------|
| NO. | BY | DATE | NO. | BY | DATE | S-4 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 8 |

DRAWN BY: M WELDON DATE: 2/13
 CHECKED BY: J YANACCONO DATE: 2/13

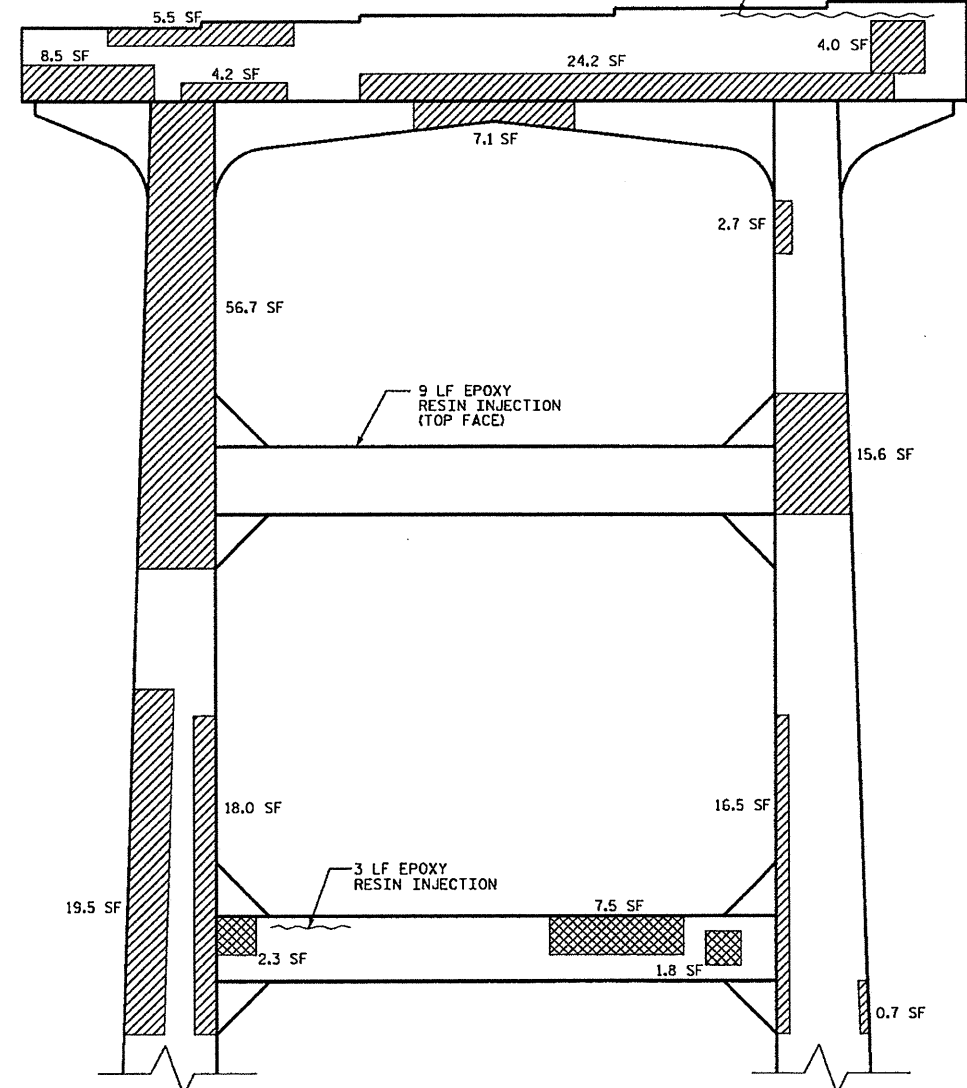


PLAN

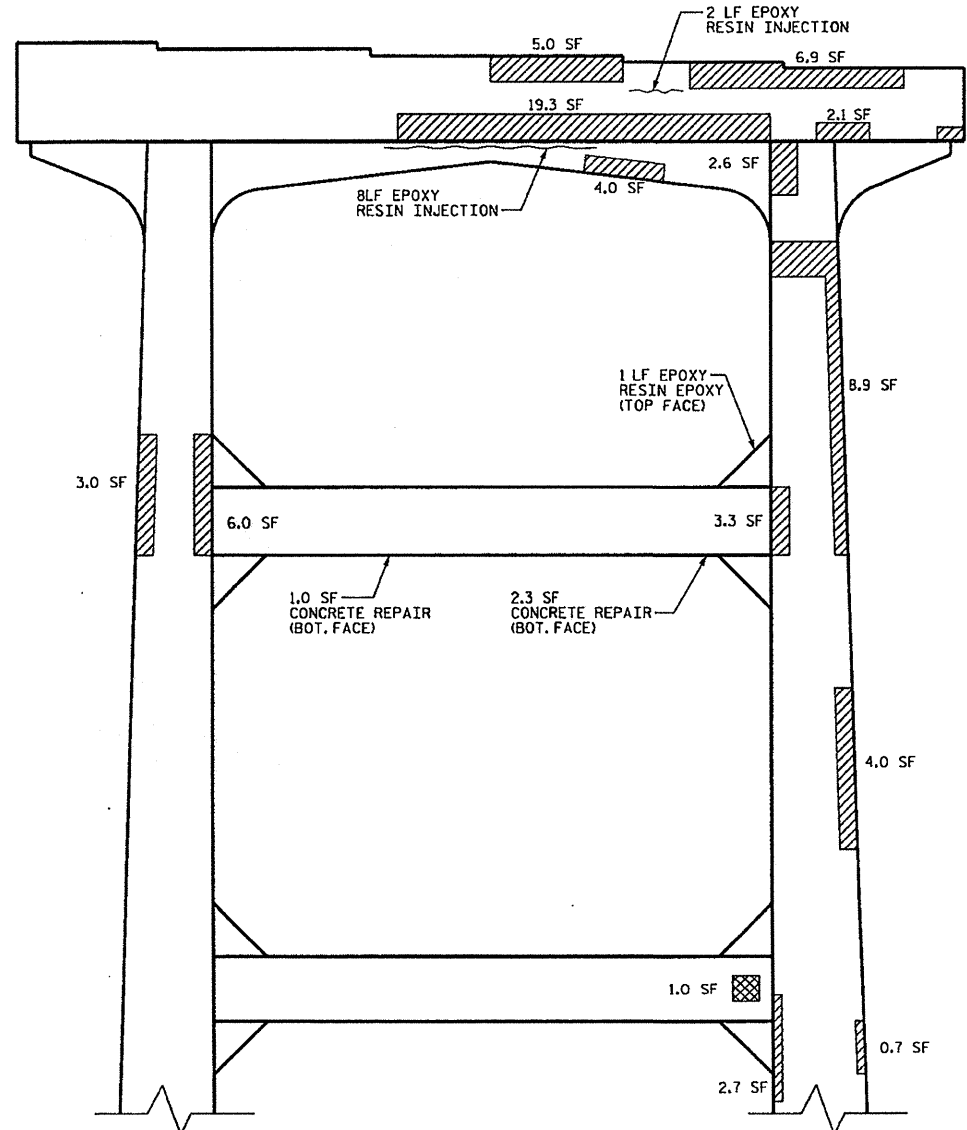
CONCRETE REPAIR
 SHOTCRETE REPAIR



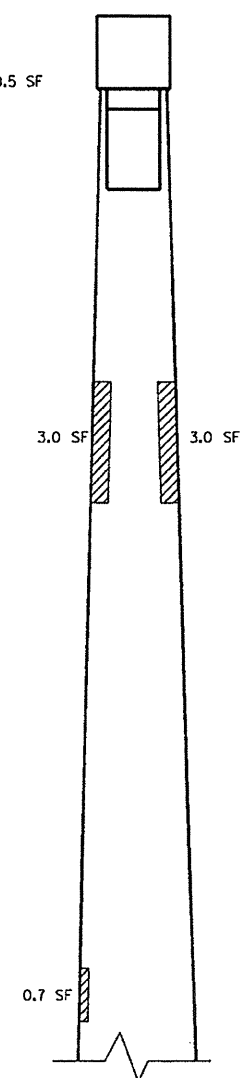
WEST FACE



SOUTH FACE



NORTH FACE



EAST FACE

| REPAIRS BENT 3 | QUANTITIES | | | |
|------------------------------|------------|------------|----------|------------|
| | ESTIMATE | | ACTUAL | |
| | AREA SF. | VOLUME CF. | AREA SF. | VOLUME CF. |
| SHOTCRETE REPAIRS | | | | |
| CAP (VERTICAL FACE) | 92.3 | 55.0 | | |
| CAP (HORIZONTAL FACE) | 17.4 | 10.5 | | |
| COLUMN (VERTICAL FACE) | 202.4 | 118.0 | | |
| STRUT (HORIZONTAL FACE) | 0 | 0 | | |
| CONCRETE REPAIRS | 16.9 | 5.0 | | |
| EPOXY RESIN INJECTION | | LN. FT. | | LN. FT. |
| CAP | | 10.0 | | |
| COLUMN | | 0 | | |
| STRUT | | 13.0 | | |
| EPOXY COATING | | SO. FT. | | SO. FT. |
| TOP OF CAP | | 98 | | |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CL TO SAWCUT, SEE REPAIR DETAILS.

NOTE:

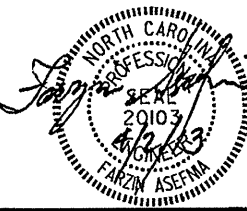
REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

FOR STRUCTURE REPAIRS, SEE SHEET S-8.

EPOXY COATING SHALL BE APPLIED TO THE TOP FACE OF THE BENT CAP.

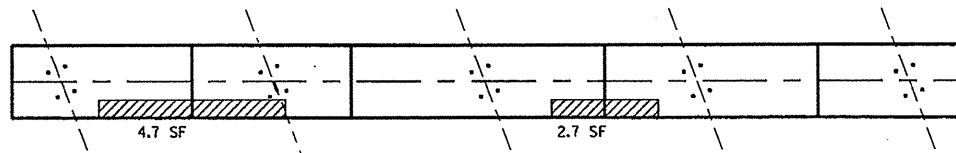
PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE REPAIR
 BENT 3

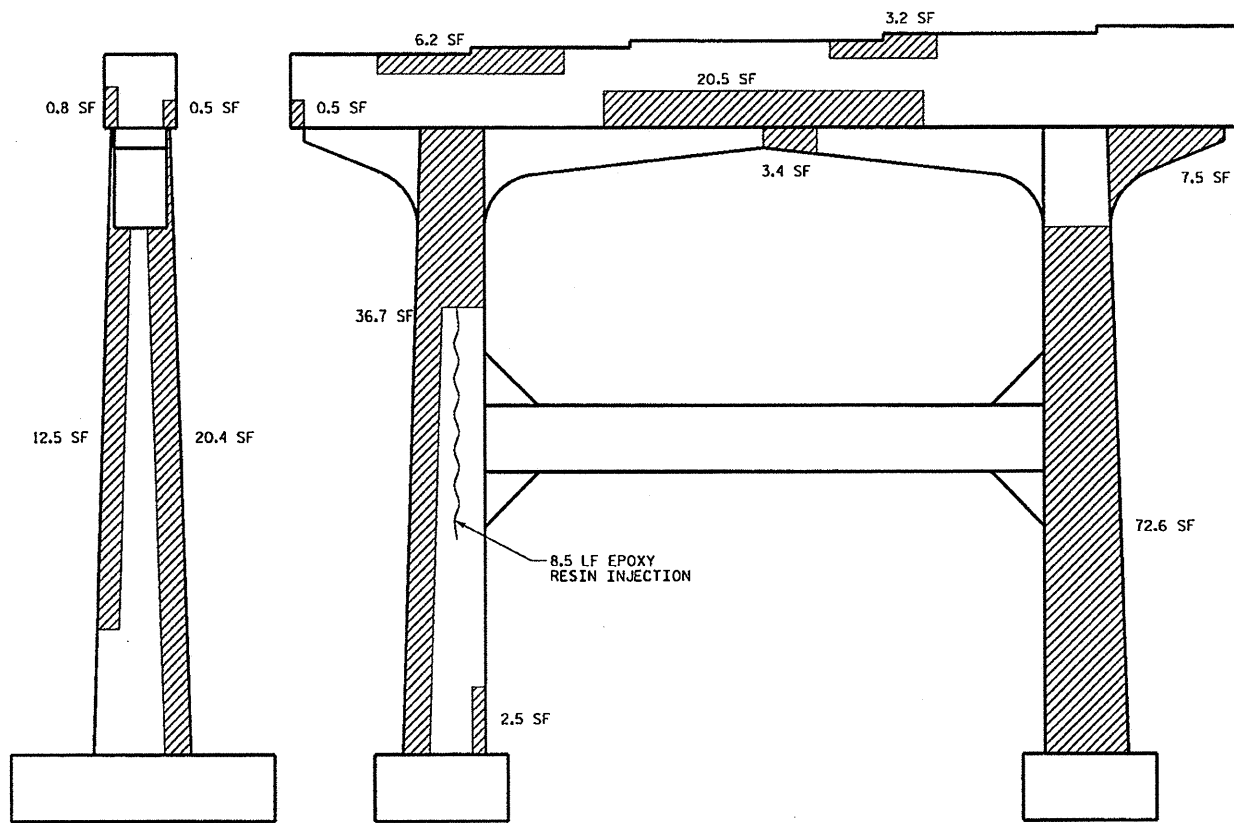


DRAWN BY: M WELDON DATE: 2/13
 CHECKED BY: J YANNAACONE DATE: 2/13

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|----------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-5 |
| 1 | | | 3 | | | TOTAL SHEETS 8 |
| 2 | | | 4 | | | |



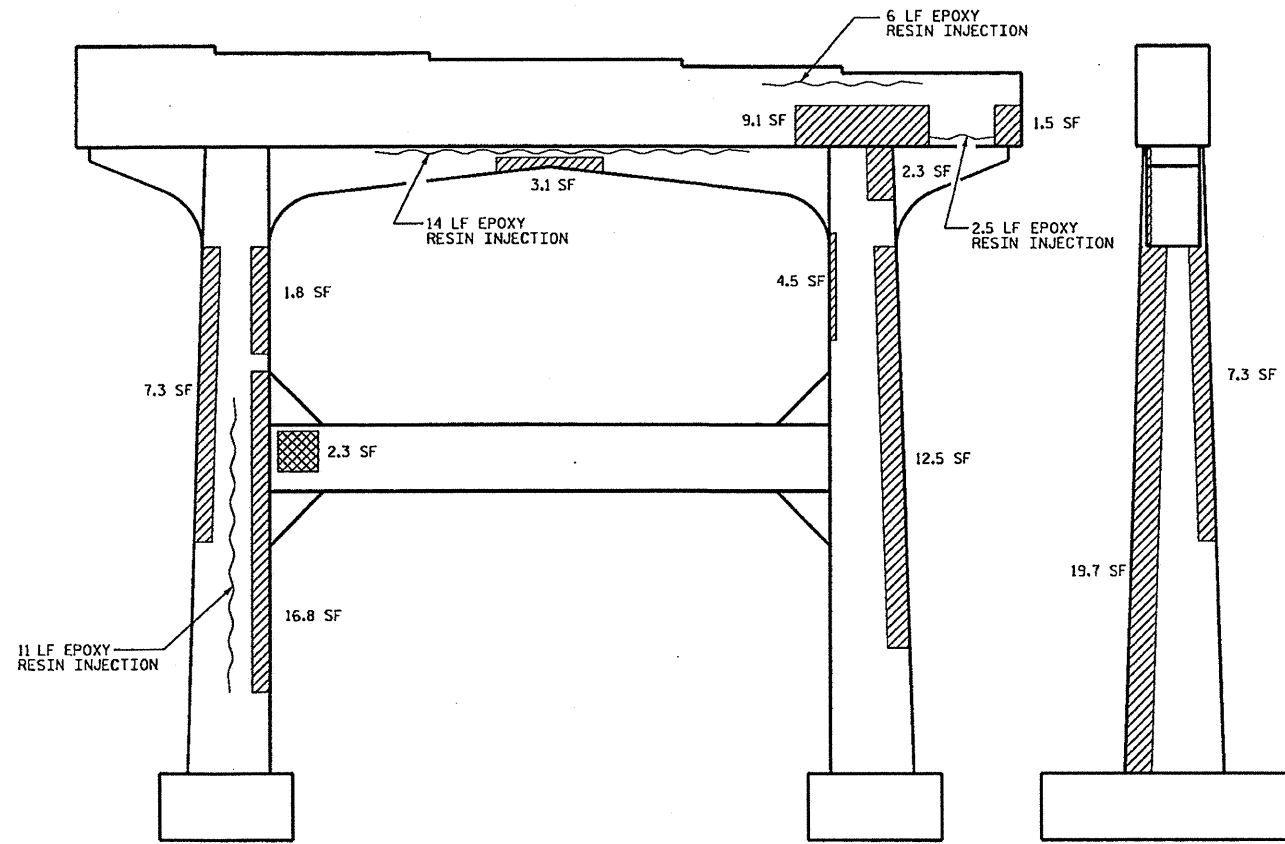
PLAN



WEST FACE

SOUTH FACE

CONCRETE REPAIR
 SHOTCRETE REPAIR



NORTH FACE

EAST FACE

| REPAIR QUANTITY TABLE | | | | |
|-------------------------|------------|------------|----------|------------|
| REPAIRS BENT 4 | QUANTITIES | | | |
| | ESTIMATE | | ACTUAL | |
| SHOTCRETE REPAIRS | AREA SF. | VOLUME CF. | AREA SF. | VOLUME CF. |
| CAP (VERTICAL FACE) | 53.2 | 32.0 | | |
| CAP (HORIZONTAL FACE) | 7.4 | 4.5 | | |
| COLUMN (VERTICAL FACE) | 216.9 | 127.0 | | |
| STRUT (HORIZONTAL FACE) | 0 | 0 | | |
| CONCRETE REPAIRS | 2.3 | 0.75 | | |
| EPOXY RESIN INJECTION | | LN. FT. | | LN. FT. |
| CAP | | 20.0 | | |
| COLUMN | | 19.5 | | |
| STRUT | | 0 | | |
| EPOXY COATING | | SQ. FT. | | SQ. FT. |
| TOP OF CAP | | 98 | | |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CL TO SAWCUT, SEE REPAIR DETAILS.

DRAWN BY: M WELDON DATE: 2/13
 CHECKED BY: J YANACCONO DATE: 2/13

NOTE:

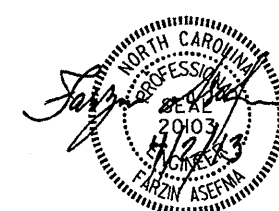
REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER SHALL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

FOR STRUCTURE REPAIRS, SEE SHEET S-8.

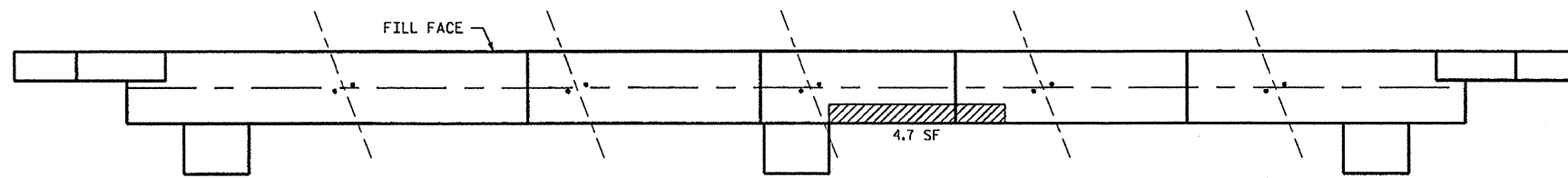
EPOXY COATING SHALL BE APPLIED TO THE TOP FACE OF THE BENT CAP.

PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

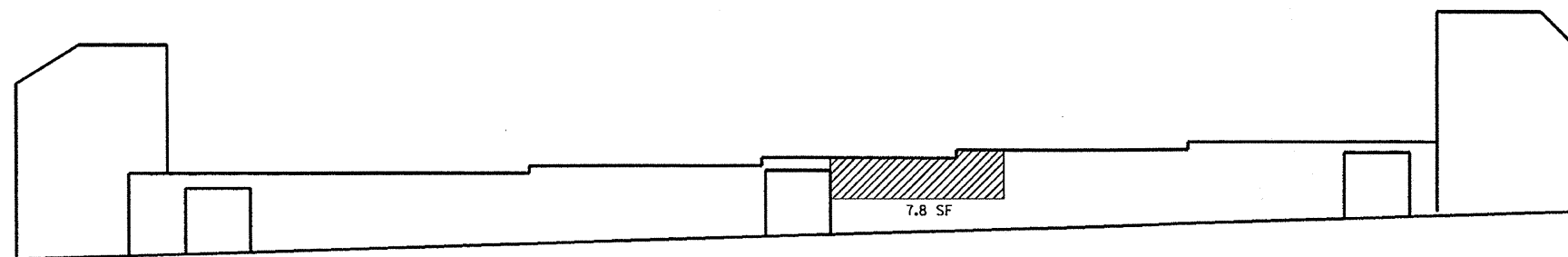
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUBSTRUCTURE REPAIR
 BENT 4



| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|----------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | |
| 1 | | | 3 | | | S-6 |
| 2 | | | 4 | | | TOTAL SHEETS 8 |



PLAN



ELEVATION

NOTE:

REPAIR LOCATIONS AND ESTIMATE 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 AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE REPAIR QUANTITY TABLE.

FOR STRUCTURE REPAIRS, SEE SHEET S-8.

EPOXY COATING SHALL BE APPLIED TO THE TOP FACE OF THE END BENT CAP AND PILE CAPS.

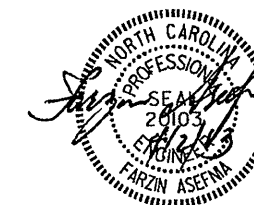
- CONCRETE REPAIR
- SHOTCRETE REPAIR

| REPAIR QUANTITY TABLE | | | | |
|---------------------------------|------------|------------|----------|------------|
| REPAIRS END BENT 2 | QUANTITIES | | | |
| | ESTIMATE | | ACTUAL | |
| SHOTCRETE REPAIRS | AREA SF. | VOLUME CF. | AREA SF. | VOLUME CF. |
| CAP (VERTICAL FACE) | 7.8 | 4.5 | | |
| CAP (HORIZONTAL FACE) | 4.7 | 3.0 | | |
| PILE CAP (VERTICAL FACE) | 0 | 0 | | |
| PILE CAP (HORIZONTAL FACE) | 0 | 0 | | |
| CONCRETE REPAIRS | 0 | 0 | | |
| EPOXY RESIN INJECTION | | LN. FT. | | LN. FT. |
| CAP | | 0 | | |
| PILE CAP | | 0 | | |
| EPOXY COATING | | SQ. FT. | | SQ. FT. |
| TOP OF END BENT CAP & PILE CAPS | | 81 | | |

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1" BEHIND REBAR AND MIN. 1" CL TO SAWCUT. SEE REPAIR DETAILS.

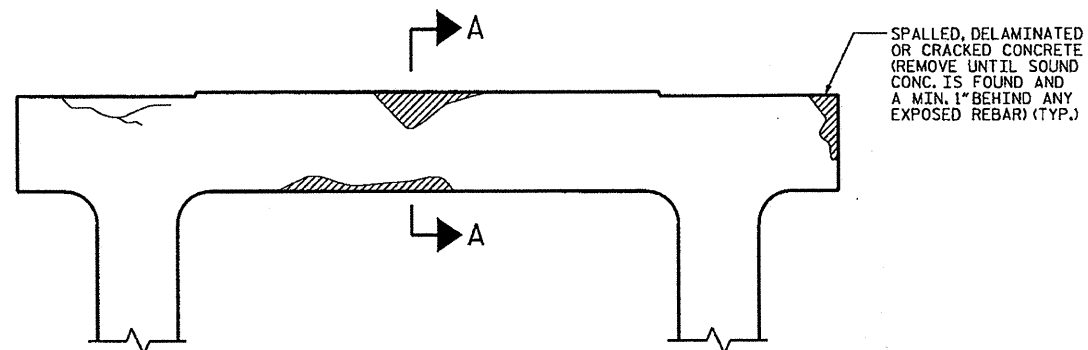
PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
SUBSTRUCTURE REPAIR
END BENT 2

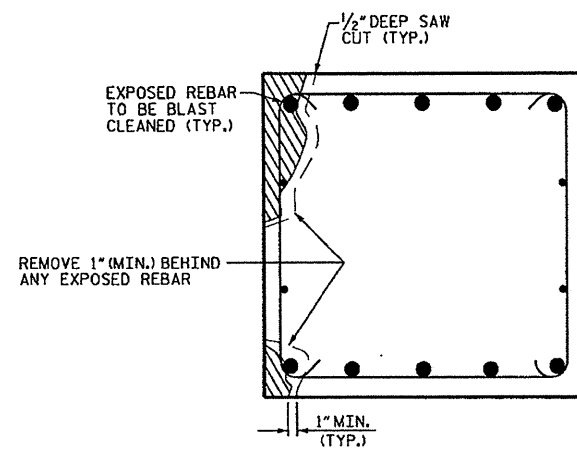


| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-7 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 8 |

DRAWN BY: M WELDON DATE: 2/13
 CHECKED BY: J YANACCONO DATE: 2/13

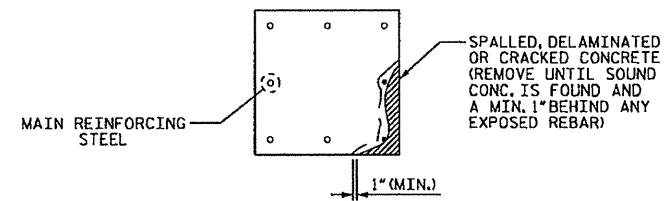


BENT CAP REPAIRS

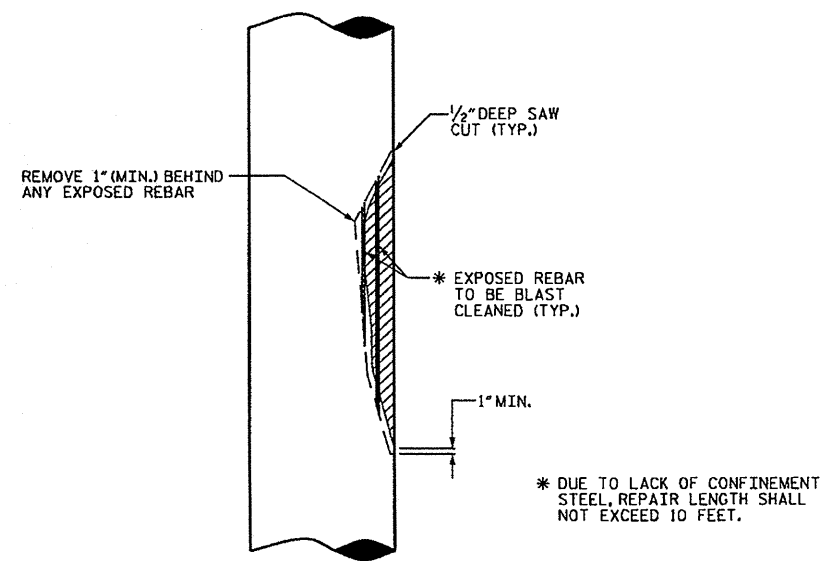


SECTION THRU CAP

CAP REPAIR



PLAN OF COLUMN



ELEVATION OF CAP

COLUMN REPAIR

PROJECT NO. 17BP.7.P.5
 COUNTY: ORANGE
 BRIDGE NO. 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

CAP & COLUMN
 REPAIR DETAILS

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-8 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 8 |

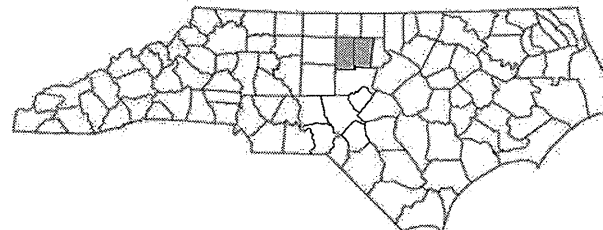


DRAWN BY: J. YANNACONE DATE: 2/13
 CHECKED BY: F. ASEFNIA DATE: 2/13

NCBDS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN
ALAMANCE & ORANGE COUNTIES
DIVISION 7



ALAMANCE COUNTY:

- BRIDGE #38 – SR 1611 (Sartin Rd) over Stoney Creek**
- BRIDGE #41 – SR 1002 (Altamahaw Union Ridge Rd) over Stoney Creek**
- BRIDGE #52 – SR 1729 (Carolina Mill Rd) over Stoney Creek**
- BRIDGE #121 – SR 1136 (Bellemont–Mt Herman Rd) over Stinking Quarter Creek**

ORANGE COUNTY:

- BRIDGE #6 – US 70 Business /NC 86 (N Churton St) over Eno River**
- BRIDGE #59 – NC 86 over I-85**
- BRIDGE #81 – I-85 NB over SR 1006 (Orange Grove Rd)**
- BRIDGE #82 – I-85 SB over SR 1006 (Orange Grove Rd)**

INDEX OF SHEETS

| SHEET NO. | TITLE |
|-----------|--|
| TMP-1 | TITLE SHEET, AND INDEX OF SHEETS |
| TMP-1A | LIST OF ROADWAY STANDARD DRAWINGS AND LEGEND |
| TMP-2 | GENERAL NOTES |
| TMP-3 | VICINITY MAP AND PHASING |

SHEET NO.
TMP-1

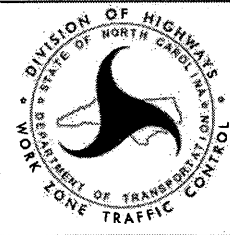
TRAFFIC MANAGEMENT STRATEGY

PROPOSED BRIDGE PAINTING OR PRESERVATION WILL BE PERFORMED USING DAY AND TIME RESTRICTED LANE CLOSURES. REFER TO SHEET TMP-3 FOR TRAFFIC CONTROL PHASING.

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PLAN PREPARED FOR NCDOT STRUCTURES MANAGEMENT UNIT
RALEIGH, NC
























Stantec
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www.stantec.com

BETSY L. WATSON, P.E. *TRAFFIC ENGINEER*
KELLIE WIESKAMP, E.I. *TRANSPORTATION DESIGNER*

APPROVED: *Betsy L. Watson*
DATE: *2/24/13*

WBS 17BP.7.P.5





LEGEND

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  WORK AREA
-  PAVEMENT REMOVAL
-  NORTH ARROW
-  TYPE III BARRICADE
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  CHANGEABLE MESSAGE SIGN (CMS)
-  FLAGGER
-  FLASHING ARROW PANEL (TYPE C)
-  LAW ENFORCEMENT
-  TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
-  PORTABLE CONCRETE BARRIER (PCB)
-  TEMPORARY CRASH CUSHION
-  TEMPORARY SHORING
-  WORK ZONE SIGN-PORTABLE
-  WORK ZONE SIGN-STATIONARY
-  WORK ZONE SIGN-STATIONARY OR PORTABLE




SIGNALS

-  EXISTING
-  PROPOSED
-  TEMPORARY




PAVEMENT MARKINGS

-  EXISTING PAVEMENT MARKING (GRAY)
-  SKIP LINES
-  MINI-SKIP LINES
-  SOLID LINES

PAVEMENT MARKING SYMBOLS

-  PAVEMENT MARKING SYMBOLS
-  EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
-  PAVEMENT MARKING ALPHANUMERIC CHARACTERS

PAVEMENT MARKERS

-  CRYSTAL / CRYSTAL
-  CRYSTAL / RED
-  YELLOW / YELLOW

ROADWAY STANDARD DRAWINGS

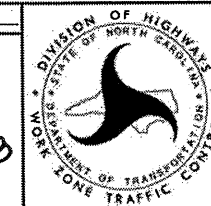
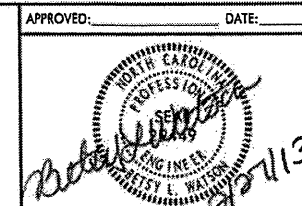
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| <u>STD. NO.</u> | <u>TITLE</u> |
|-----------------|-------------------------------|
| 1101.02 | TEMPORARY LANE CLOSURES |
| 1101.04 | TEMPORARY SHOULDER CLOSURES |
| 1101.11 | TRAFFIC CONTROL DESIGN TABLES |
| 1110.01 | STATIONARY WORK ZONE SIGNS |
| 1110.02 | PORTABLE WORK ZONE SIGNS |
| 1115.01 | FLASHING ARROW PANELS |
| 1130.01 | DRUMS |
| 1135.01 | CONES |
| 1150.01 | FLAGGING DEVICES |

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ROADWAY STANDARD DRAWINGS
&
LEGEND

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

| ROAD NAME | DAY AND TIME RESTRICTIONS |
|----------------|---|
| SR 1006 | |
| SR 1002 | 6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY |
| SR 1729 | 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY |
| SR 1136 | |
| SR 1611 | |
| I-85 | 6:00 A.M.- 7:00 P.M. MONDAY THRU SUNDAY |
| US 70 BUSINESS | (EVERY DAY) |
| NC 86 | |

B) DO NOT CLOSE OR NARROW A LANE OF TRAFFIC, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

ROAD NAME
I-85, NC 86, US 70, SR 1611, SR 1006, SR 1729, SR 1002, SR 1136, SR 1611.

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.



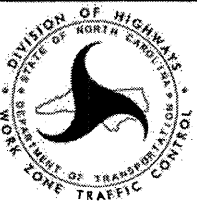
FLAGGER CONTROLLED LANE CLOSURES

- H) DURING FLAGGER OPERATIONS DO NOT STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME.
- I) LOCATE FLAGGER STATIONS SUCH THAT APPROACHING TRAFFIC WILL HAVE SUFFICIENT DISTANCE TO STOP AT THE INTENDED STOPPING POINT. IF NEEDED, EXTEND THE LANE CLOSURE SUCH THAT THE FLAGGER STATION IS POSITIONED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE WHERE ADEQUATE STOPPING SIGHT DISTANCE TO THE FLAGGER IS PROVIDED. REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2.
- J) FLAGGERS SHALL NOT STAND IN THE ROADWAY.
- K) USE FLAGGERS TO CONTROL VEHICLES AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. USE FLAGGER SIGN W20-7A IN ADVANCE OF ALL FLAGGER STATIONS. WHEN AN INTERSECTION IS SIGNALIZED HAVE AUTHORIZED PERSONNEL PLACE THE SIGNAL IN FLASH MODE WHEN DIRECTED BY THE ENGINEER.
- L) PROVIDE ILLUMINATION FOR FLAGGER STATIONS DURING NIGHT HOURS. ILLUMINATION FOR FLAGGER STATIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.
- M) PLACE CHANNELIZING DEVICES FOR FLAGGER OPERATION LANE CLOSURES AT A MAXIMUM SPACING OF 20 FEET IN TAPERS AND AT A MAXIMUM SPACING OF 80 FEET ALONG THE BUFFER SPACE AND WORK AREA.
- N) USE PILOT VEHICLES IN CONJUNCTION WITH FLAGGERS WHEN SHOWN IN THE PLAN OR WHEN DIRECTED BY THE ENGINEER. MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A VISIBLE LOCATION ON THE REAR OF PILOT VEHICLES.
- O) ADVISE RESIDENTS AND BUSINESSES AFFECTED BY THE LANE CLOSURE ABOUT METHODS OF SAFE INGRESS AND EGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

MISCELLANEOUS

- P) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- Q) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

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| | | | |
|--|--|---|---|
|  <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-8866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p> | <p>APPROVED: _____ DATE: _____</p>  |  | <h2 style="margin: 0;">GENERAL NOTES</h2> |
|--|--|---|---|

PHASING

ALAMANCE COUNTY

BRIDGE #38 - SR 1611 (SARTIN RD) OVER STONEY CREEK
 USE FLAGGING OPERATION, PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

BRIDGE #41 - SR 1002 (ALTAHAW UNION RIDGE RD) OVER STONEY CREEK
 USE FLAGGING OPERATION, PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

BRIDGE #52 - SR 1729 (CAROLINA MILL RD) OVER STONEY CREEK
 USE FLAGGING OPERATION, PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

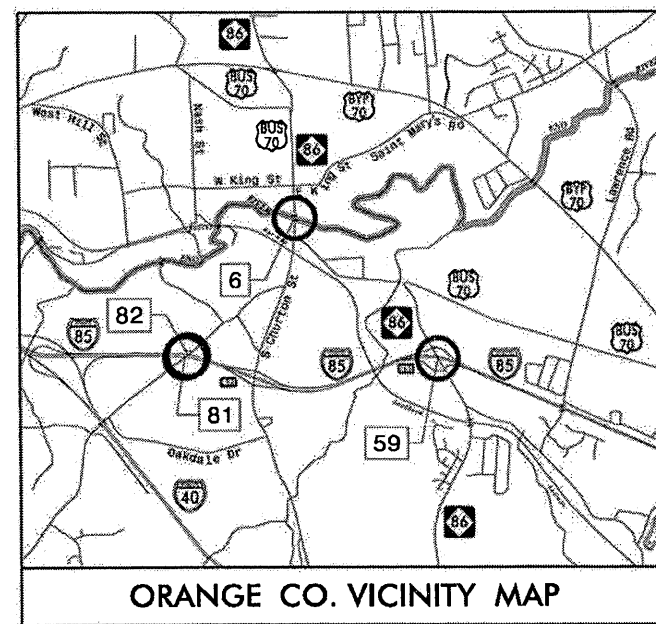
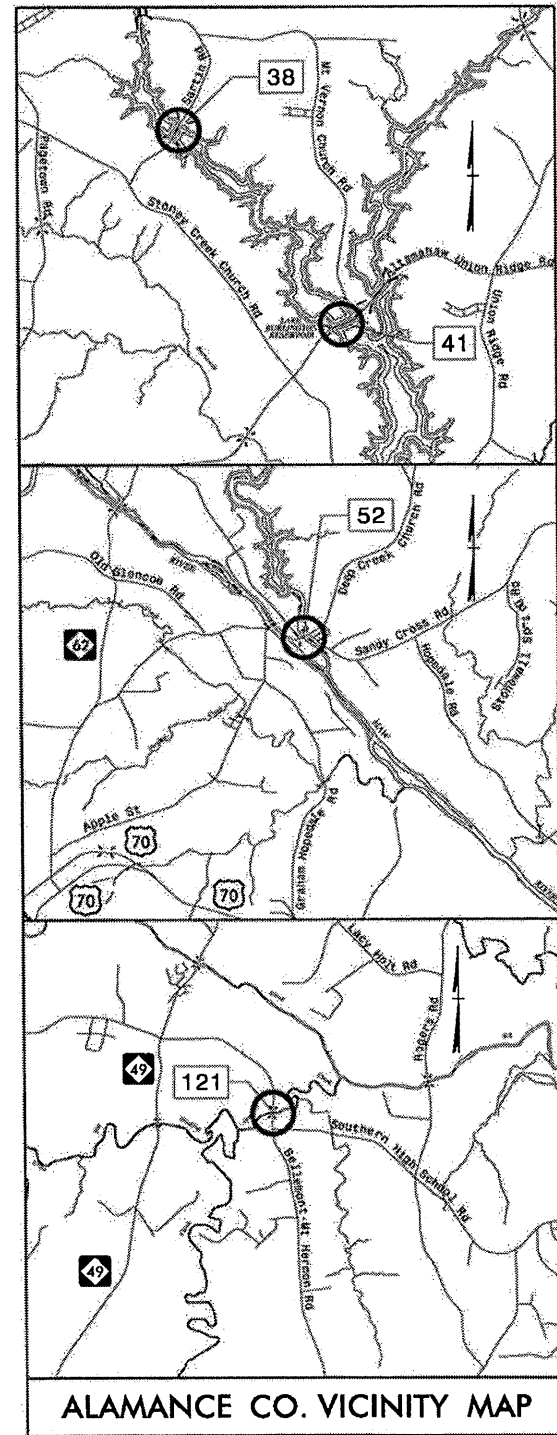
BRIDGE #121 - SR 1136 (BELLEFONT-MT HERMAN RD) OVER STINKING QUARTER CREEK
 USE FLAGGING OPERATION, PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1.

ORANGE COUNTY





BRIDGE #6 - US 70 BUSINESS/NC 86 (N CHURTON ST) OVER ENO RIVER
 USE FLAGGING OPERATION TO SECURE CONTAINMENT AND PERFORM SUBSTRUCTURE WORK, PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1. LAW ENFORCEMENT MAY BE USED AT THE INTERSECTIONS OF US 70 BUSINESS WITH US 70 BUSINESS, EXCHANGE PARK LANE, AND NASH AND KOLLOCK STREET, AS NEEDED.

BRIDGE #59 - NC 86 OVER I-85
 USE LEFT LANE CLOSURE WITH SHIFT ALONG I-85, PER ROADWAY STANDARD DRAWING SHEET 1101.02 SHEET 6.

BRIDGES #81 AND #82 - I-85 OVER SR 1006 (ORANGE GROVE RD)
 USE FLAGGING OPERATION ON SR 1006, PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1. IF LANE CLOSURES ARE REQUIRED ON I-85 FOR SECUREMENT OF CONTAINMENT, USE RSD 1101.02 SHEETS 4, 5, OR 6.



2/27/2013
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|  Stantec <small>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel: (919) 851-6888 Fax: (919) 851-7024 www.stantec.com License No. F-0672</small> | APPROVED: _____ DATE: _____  |  | VICINITY MAPS & PHASING |
| |  | | |