

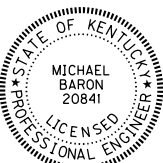



TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS

JEFFERSON COUNTY  
I-64 RIVERSIDE EXPRESSWAY  
K & I T RR TO PRESTON STREET  
& 9TH STREET RAMPS  
MISCELLANEOUS REPAIRS



|   |  |                             |
|---|--|-----------------------------|
| <br><br><br><br>BY: PDO<br>DATE: DECEMBER 5, 2025 | <b>SPECIFICATIONS</b>  |                             |
|   | 2019 Standard Specifications for Road and Bridge Construction including supplemental specifications. |                             |
|   | 2020 AASHTO LRFD Bridge Design Specifications.   |                             |
|   | 2017 AASHTO LRFD Bridge Construction Specifications.   |                             |
| <br><br><br><br>BY: MJB<br>DATE: DECEMBER 5, 2025 | REVISION   |                             |
|   | DATE: OCTOBER 2025   |                             |
|   | CHECKED BY   |                             |
|   | DESIGNED BY: M BARON   |                             |
| DETAILED BY: MJ DWYER   |  |                             |
| <b>Commonwealth of Kentucky<br/>DEPARTMENT OF HIGHWAYS</b>  |  |                             |
| <b>JEFFERSON</b>  |  |                             |
| ROUTE CROSSING  |  |                             |
| <b>I-64 K &amp; I T RR TO PRESTON STREET</b>  |  |                             |
| <b>TITLE SHEET</b>  |  |                             |
| ITEM NUMBER   | PREPARED BY  | SHEET NO.                   |
| 5-10016   | <b>Michael Baker International</b>   | <b>S1</b>                   |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com   |  | DRAWING NO.<br><b>28870</b> |

| STRUCTURES ESTIMATE OF QUANTITIES            |   |  |   |                              |                               |                     |                          |                   |  |   |  |                           |  |  |                                 |                                |                          |                       |                       |
|--|---|--|---|------------------------------|-------------------------------|---------------------|--------------------------|-------------------|--|---|--|---------------------------|--|--|---------------------------------|--------------------------------|--------------------------|-----------------------|-----------------------|
| BID ITEM CODE                                | 08435   | 08435  | 08435   | 21679EN                      | 21679EN                       | 21969NN             | 22146EN                  | 23055N            | 23171EC  | 23171EC                                   | 23171EC                                    | 23279EC                   | 23386EC                                | 23386EC                                  | 23744EC                         | 24879EC                        | 24879EC                  | 24879EC               | 24879EC               |
| BID ITEM                                     | JACK AND SUPPORT -<br>END BENT 10IW AT GIRDER E | JACK AND SUPPORT -<br>PIER R3 AT GIRDERS RA AND RB | JACK AND SUPPORT -<br>PIER GIRDER 131E PIN & HANGER<br>AT GIRDERS P AND W | FIBERGLASS DRAIN PIPE - 8 IN | FIBERGLASS DRAIN PIPE - 10 IN | BEARING REPLACEMENT | CONCRETE PATCHING REPAIR | REMOVE - DRAINAGE | CONCRETE REPAIR -<br>END BENT 10IW AT GIRDER E | CONCRETE REPAIR -<br>PIER R3 AT GIRDER RB | CONCRETE REPAIR -<br>PIER 34W AT GIRDER G3 | RETROFIT - PIN AND HANGER | JOINT SEAL REPLACEMENT -<br>TRANSVERSE | JOINT SEAL REPLACEMENT -<br>LONGITUDINAL | EPOXY INJECTION<br>CRACK REPAIR | STEEL REPAIR - PIER GIRDER 110 | STEEL REPAIR - SPAN 127E | STEEL REPAIR - TYPE A | STEEL REPAIR - TYPE B |
| UNIT   | LS  | LS   | LS  | LF                           | LF                            | EACH                | SQFT                     | LS                | LS   | LS  | LS   | EACH                      | LF                                     | LF                                       | LF                              | EACH                           | EACH                     | EACH                  | EACH                  |
| K & IT RR TRESTLE (056B00284)                |   |  |   | 2,106                        |                               |                     |                          | 1                 |  |   |  |                           | 799                                    |  |                                 |                                |                          |                       |                       |
| K & IT RR & 27TH ST (056B00283)              |   |  |   | 715                          |                               |                     |                          | 1                 |  |   |  |                           | 444                                    | 182                                      |                                 |                                |                          |                       |                       |
| NW PKWY & 22ND ST<br>(056B00281 & 056B00282) |   | 1  |   | 288                          |                               |                     | 37                       | 1                 |  | 1   |  |                           | 1017                                   |  |                                 |                                |                          |                       |                       |
| 17TH TO 13TH ST (056B00285)                  |   |  |   | 1,815                        |                               | 1                   | 230                      | 1                 |  |   |  |                           | 642                                    | 2110                                     |                                 |                                |                          |                       |                       |
| 13TH TO 7TH ST (056B00293)                   |   |  |   | 2,561                        | 74                            |                     | 366                      | 1                 |  |   | 1  |                           | 908                                    | 1572                                     |                                 |                                |                          |                       |                       |
| 7TH TO 2ND ST (056B00292)                    |   |  |   |                              |                               |                     | 40                       |                   |  |   |  |                           | 801                                    | 2653                                     |                                 |                                |                          |                       |                       |
| 3RD TO PRESTON ST (056B00142)                | 1   |  | 1   | 6                            |                               |                     | 250                      | 1                 | 1  |   |  | 2                         | 1287                                   | 1266                                     | 2                               | 1                              | 1                        | 11                    | 1                     |
| 9TH STREET RAMP 1 (056B00300)                |   |  |   |                              |                               |                     | 195                      |                   |  |   |  |                           |  |  |                                 |                                |                          |                       |                       |
| 9TH STREET RAMP 2 (056B00301)                |   |  |   |                              |                               |                     | 65                       |                   |  |   |  |                           |  |  |                                 |                                |                          |                       |                       |
| 9TH STREET RAMP 2A (056B00299)               |   |  |   |                              |                               |                     | 15                       |                   |  |   |  |                           |  |  |                                 |                                |                          |                       |                       |
| 9TH STREET RAMP 3 (056B00302)                |   |  |   |                              |                               |                     | 15                       |                   |  |   |  |                           |  |  |                                 |                                |                          |                       |                       |
| 9TH STREET RAMP 4 (056B00298)                |   |  |   |                              |                               |                     | 125                      |                   |  |   |  |                           |  |  |                                 |                                |                          |                       |                       |
| TOTALS                                       | 1   | 1  | 1   | 7,491                        | 74                            | 1                   | 1338                     | 1                 | 1  | 1   | 1  | 2                         | 5898                                   | 7783                                     | 2                               | 1                              | 1                        | 11                    | 1                     |

① ESTIMATED CONCRETE PATCHING REPAIR  
NW PKWY & 22ND ST (056B00281 & 056B00282) COLUMNS 10 SQFT  
NW PKWY & 22ND ST (056B00281 & 056B00282) PIER R3 27 SQFT  
17TH TO 13TH ST (056B00285) COLUMNS 230 SQFT  
13TH TO 7TH ST (056B00293) COLUMNS 366 SQFT  
7TH TO 2ND ST (056B00292) COLUMNS 40 SQFT  
3RD TO PRESTON ST (056B00142) COLUMNS 240 SQFT  
3RD TO PRESTON ST (056B00142) EB 10IW 10 SQFT  
9TH STREET RAMP 1 (056B00300) COLUMNS 195 SQFT  
9TH STREET RAMP 2 (056B00301) COLUMNS 65 SQFT  
9TH STREET RAMP 2A (056B00299) COLUMNS 15 SQFT  
9TH STREET RAMP 3 (056B00302) COLUMNS 15 SQFT  
9TH STREET RAMP 4 (056B00298) COLUMNS 125 SQFT

② "JOINT SEAL REPLACEMENT - TRANSVERSE" ESTIMATED BID QUANTITY IS  
THE SUM TOTAL ESTIMATED LENGTH OF 4 INCH, 5 INCH AND 6 INCH  
STRIP SEALS AND COMPRESSION SEALS AS SPECIFIED ON THE PLANS.  
FOR THE SUB-TOTAL OF EACH SEAL SIZE PER UNIT, SEE SHEETS NO.  
S37 AND S38.

①

### STEEL REPAIR - PIER GIRDER 110

THIS WORK CONSISTS OF REPAIRING SECTION LOSS AT TOP OF WEB FOR PIER GIRDER 110. THE UNIT PRICE FOR THIS WORK SHALL BE FULL PAYMENT FOR OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ACCESS AND INCIDENTALS TO COMPLETE THE WORK. THE ESTIMATED WEIGHT OF STRUCTURAL STEEL FOR THIS REPAIR IS 450 LBS.

### STEEL REPAIR - SPAN 127E

THIS WORK CONSISTS OF REPAIRING SECTION LOSS AT TOP OF WEB FOR PIER GIRDER 127E. THE UNIT PRICE FOR THIS WORK SHALL BE FULL PAYMENT FOR OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ACCESS AND INCIDENTALS TO COMPLETE THE WORK. THE ESTIMATED WEIGHT OF STRUCTURAL STEEL FOR THIS REPAIR IS 30 LBS.

### STEEL REPAIR - TYPE A

THIS WORK CONSISTS OF REPAIRING SECTION LOSS AT BOTTOM OF WEB AND BOTTOM FLANGE FOR VARIOUS GIRDERS. SEE PLAN SHEET NOS. S27-S29, S31 AND S32 FOR LOCATIONS. THE UNIT PRICE FOR THIS WORK SHALL BE FULL PAYMENT FOR OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ACCESS AND INCIDENTALS TO COMPLETE THE WORK. THE ESTIMATED WEIGHT OF STRUCTURAL STEEL FOR EACH OF THESE REPAIRS IS 150 LBS.

### STEEL REPAIR - TYPE B

THIS WORK CONSISTS OF REPAIRING SECTION LOSS AT BOTTOM OF WEB AND BOTTOM FLANGE FOR GIRDER A IN SPAN 130W. THE UNIT PRICE FOR THIS WORK SHALL BE FULL PAYMENT FOR OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, ACCESS AND INCIDENTALS TO COMPLETE THE WORK. THE ESTIMATED WEIGHT OF STRUCTURAL STEEL FOR THIS REPAIR IS 350 LBS.

②

| SPECIAL NOTES   |
|---|
| FOR CONTRACT COMPLETION DATE AND LIQUIDATED DAMAGES ON BRIDGE REPAIR CONTRACT |
| FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS                                |
| FOR PORTABLE CHANGEABLE MESSAGE SIGNS   |
| FOR CONCRETE COATING  |
| FOR EPOXY INJECTION CRACK REPAIR  |
| FOR PIN & HANGER ASSEMBLY REPAIR  |
| FOR JACKING AND SUPPORTING BRIDGE SPAN  |
| FOR JOINT SEAL REPLACEMENT - LONGITUDINAL                                     |
| FOR CONCRETE PATCHING REPAIR  |
| FOR PAINTING STRUCTURAL STEEL REPAIRS   |
| FOR RAILROAD COORDINATION   |
| FOR PREVENTATIVE MAINTENANCE  |

| ITEM NUMBER | PREPARED BY   |  | SHEET NO.   |
|-------------|---|--|---|
| 5-10016     | <div><div>Michael Baker</div><div>INTERNATIONAL</div></div> <div>1650 Lyndon Farm Court<br/>Louisville, KY 40223<br/>Phone: (502) 339-3557<br/>MBAKERINTL.COM</div> |  | <div>S2</div> <div>DRAWING NO.</div> <div>28870</div> |

| SHEET INDEX       |   |
|-------------------|---|
| SI                | TITLE SHEET                                       |
| S2-S4             | QUANTITIES  |
| S5-S7             | GENERAL NOTES                                     |
| S8-S19            | LAYOUT SHEETS                                     |
| S20-S21           | END BENT 10IW RETROFIT                            |
| S22-S23           | PIER R3 RETROFIT                                  |
| S24               | PIER COLUMN CONCRETE REPAIR                       |
| S25               | PIER 7 BRG PAD REPLACEMENT                        |
| S26               | PIER GIRDER 110 RETROFIT                          |
| S27               | GIRDER RETROFIT SPAN 115                          |
| S28               | GIRDER RETROFIT SPAN 118                          |
| S29               | GIRDER RETROFIT SPAN 123W                         |
| S30               | GIRDER RETROFIT SPAN 127E                         |
| S31               | GIRDER RETROFIT SPAN 127W                         |
| S32               | GIRDER RETROFIT SPAN 129W-130W                    |
| S33-S34           | PIER GIRDER 131E PIN & HANGER                     |
| S35-S36           | PIER 34WB DECK RETROFIT                           |
| S37-S38           | STRIP SEAL RETROFIT                               |
| S39               | COMPRESSION SEAL RETROFIT                         |
| S40               | LONGITUDINAL JOINT RETROFIT                       |
| S41-S83           | FATIGUE RETROFIT LAYOUTS                          |
| S84               | CRACK RETROFIT SUMMARY                            |
| S85-S90           | FATIGUE CRACK RETROFITS                           |
| S91               | REPLACE BOLTS                                     |
| D1-D7             | 284 DRAINAGE LAYOUTS                              |
| D8-D11            | 284 DRAINAGE DETAILS                              |
| D12-D13           | 283 DRAINAGE LAYOUTS                              |
| D14-D17           | 283 DRAINAGE DETAILS                              |
| D18               | 281 & 282 DRAINAGE LAYOUT                         |
| D19-D21           | 281 & 282 DRAINAGE DETAILS                        |
| D22-D27           | 285 DRAINAGE LAYOUTS                              |
| D28-D32           | 285 DRAINAGE DETAILS                              |
| D33-D38           | 293 DRAINAGE LAYOUTS                              |
| D39-D50           | 293 DRAINAGE DETAILS                              |
| D51               | DRAIN PIPE SUPPORT BRACKET                        |
| R1-R2             | MAINTENANCE OF TRAFFIC                            |
| STANDARD DRAWINGS |   |
| RBE-100-11        | CRASH CUSHION TYPE VI-BT                          |
| RBM-020-09        | DELINEATORS FOR CONCRETE BARRIERS                 |
| RBM-115-10        | CONCRETE BARRIER TYPE 9T (TEMPORARY)              |
| RBM-120-02        | BOX BEAM STIFFENING PT TEMPORARY CONCRETE BARRIER |
| RDI-025-06        | PIPE BEDDING TRENCH CONDITION                     |
| RDX-210-03        | TEMPORART SILT FENCE                              |
| RDX-220-05        | SILT TRAP TYPE A                                  |
| TTC-100-05        | LANE CLOSURE TWO-LANE HIGHWAY                     |
| TTC-115-04        | LANE CLOSURE MULTI-LANE HIGHWAY CASE 1            |
| TTC-125-04        | DOUBLE LANE CLOSURE                               |
| TTC-135-03        | SHOULDER CLOSURE                                  |

|   |  |   |  |
|---|--|---|--|
|   |  |   |  |
|   |  |   |  |
|   |  |   |  |
| REVISION  |  | DATE  |  |
| DATE: AUGUST 2025   |  | CHECKED BY  |  |
| DESIGNED BY: D BARON  |  | MJ DWYER  |  |
| DETAILED BY: MJ DWYER   |  | D BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET             |  |
| QUANTITIES – 1  |  |   |  |
| PREPARED BY   |  | SHEET NO.   |  |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |  | <div>S2</div> <div>DRAWING NO.</div> <div>28870</div> |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |   |  |

| STRUCTURES ESTIMATE OF QUANTITIES            |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
|--|------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|--------------------------------|-----------------|---------------------|------------------|
| BID ITEM CODE                                | 24879EC                | 24879EC                 | 24879EC                 | 24879EC                | 24879EC                | 24879EC                | 24879EC                | 24879EC                 | 24879EC                 | 24879EC                | 24879EC                | 24879EC                | 24879EC                | 24879EC                | 24879EC                | 24879EC                | 24879EC                 | 24879EC                 | 24879EC                        | 24981EC         | 24983EC             | 26232EC          |
| BID ITEM                                     | STEEL REPAIR - TYPE BB | STEEL REPAIR - TYPE BSI | STEEL REPAIR - TYPE BS2 | STEEL REPAIR - TYPE CB | STEEL REPAIR - TYPE CC | STEEL REPAIR - TYPE CF | STEEL REPAIR - TYPE CS | STEEL REPAIR - TYPE CX1 | STEEL REPAIR - TYPE CX2 | STEEL REPAIR - TYPE FB | STEEL REPAIR - TYPE FP | STEEL REPAIR - TYPE FS | STEEL REPAIR - TYPE FT | STEEL REPAIR - TYPE GC | STEEL REPAIR - TYPE GF | STEEL REPAIR - TYPE GP | STEEL REPAIR - TYPE MB1 | STEEL REPAIR - TYPE MB2 | STEEL REPAIR - LATERAL BRACING | BRIDGE CLEANING | BEARING LUBRICATION | CONCRETE COATING |
| UNIT   | EACH                   | EACH                    | EACH                    | EACH                   | EACH                   | EACH                   | EACH                   | EACH                    | EACH                    | EACH                   | EACH                   | EACH                   | EACH                   | EACH                   | EACH                   | EACH                   | EACH                    | EACH                    | EACH                           | LS              | EACH                | SOFT             |
| K & IT RR TRESTLE (056B00284)                |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| K & IT RR & 27TH ST (056B00283)              |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| NW PKWY & 22ND ST<br>(056B00281 & 056B00282) |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     | 152              |
| 17TH TO 13TH ST (056B00285)                  |                        |                         |                         |                        |                        |                        |                        |                         |                         | 2                      | 2                      | 2                      | 3                      | 3                      | 2                      | 7                      |                         |                         |                                |                 |                     |                  |
| 13TH TO 7TH ST (056B00293)                   |                        |                         |                         | 1                      | 3                      |                        | 16                     | 1                       |                         | 8                      |                        | 4                      | 1                      | 8                      |                        | 7                      | 1                       |                         |                                |                 |                     |                  |
| 7TH TO 2ND ST (056B00292)                    | 3                      | 1                       | 17                      |                        | 1                      |                        | 13                     |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         | 2                              |                 |                     |                  |
| 3RD TO PRESTON ST (056B00142)                |                        |                         |                         | 4                      |                        | 1                      | 9                      | 1                       | 1                       |                        |                        |                        |                        |                        |                        |                        | 37                      | 1                       |                                | 1               | 7                   | 677              |
| 9TH STREET RAMP 1 (056B00300)                |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| 9TH STREET RAMP 2 (056B00301)                |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| 9TH STREET RAMP 2A (056B00299)               |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| 9TH STREET RAMP 3 (056B00302)                |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| 9TH STREET RAMP 4 (056B00298)                |                        |                         |                         |                        |                        |                        |                        |                         |                         |                        |                        |                        |                        |                        |                        |                        |                         |                         |                                |                 |                     |                  |
| TOTALS                                       | 3                      | 1                       | 17                      | 5                      | 4                      | 1                      | 38                     | 2                       | 1                       | 10                     | 2                      | 6                      | 4                      | 11                     | 2                      | 14                     | 38                      | 1                       | 2                              | 1               | 7                   | 829              |

STEEL REPAIR - FATIGUE CRACK RETROFITS

THIS WORK CONSISTS OF REPAIRS AS SPECIFIED IN THE DETAIL DRAWINGS. THE COST OF ALL LABOR, MATERIALS, TOOLS, ACCESS AND INCIDENTALS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM.

ITEM NUMBER

5-10016

PREPARED BY

Michael Baker

INTERNATIONAL

1650 Lyndon Farm Court  
Louisville, KY 40223  
Phone: (502) 339-3557  
MBAKERINTL.COM

SHEET NO.

S3

DRAWING NO.

28870

REVISION

DATE

DATE: AUGUST 2025

CHECKED BY

DESIGNED BY: D BARON

MJ DWYER

DETAILED BY: MJ DWYER

D BARON

Commonwealth of Kentucky

DEPARTMENT OF HIGHWAYS

COUNTY

JEFFERSON

ROUTE

I-64

CROSSING

K & I TT RR TO PRESTON STREET

QUANTITIES - 2

| ROADWAY & MAINTENANCE OF TRAFFIC ESTIMATE OF QUANTITIES |                                |                      |                         |                 |                           |                                    |                            |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
|---|--------------------------------|----------------------|-------------------------|-----------------|---------------------------|------------------------------------|----------------------------|--------------------------|----------------------------------|-----------------|------------------|------------------|------------------------|------------------------|-------------|-------------------------------|------------------------------|----------------------------------|-------------------------|-----------------------|-------------------------------------|--------------------|--------------------------------------|
| BID ITEM CODE   | 01984                          | 02014                | 02483                   | 02562           | 02603                     | 02607                              | 02650                      | 02654                    | 02671                            | 02701           | 02703            | 02705            | 02706                  | 02708                  | 02775       | 03171                         | 08014                        | 08901                            | 20411ED                 | 24665EX               | 26136EC                             | 26137EC            | 26138EC                              |
| BID ITEM  | DELINEATOR FOR BARRIER - WHITE | BARRICADE - TYPE III | CHANNEL LINING CLASS II | TEMPORARY SIGNS | FABRIC-GEOTEXTILE CLASS 2 | FABRIC-GEOTEXTILE CLASS 2 FOR PIPE | MAINTAIN & CONTROL TRAFFIC | TRUCK MOUNTED ATTENUATOR | PORTABLE CHANGEABLE MESSAGE SIGN | TEMP SILT FENCE | SILT TRAP TYPE A | SILT TRAP TYPE C | CLEAN SILT TRAP TYPE A | CLEAN SILT TRAP TYPE C | ARROW PANEL | CONCRETE BARRIER WALL TYPE 9T | REINF CONC SLOPE WALL - 4 IN | CRASH CUSHION TY VI CLASS BT TL2 | LAW ENFORCEMENT OFFICER | RAILROAD COORDINATION | PORTABLE QUEUE WARNING ALERT SYSTEM | QUEUE WARNING PCMS | QUEUE WARNING PORTABLE RADAR SENSORS |
| UNIT  | EACH                           | EACH                 | TON                     | SQFT            | SQYD                      | SQYD                               | LS                         | EACH                     | EACH                             | LF              | EACH             | EACH             | EACH                   | EACH                   | EACH        | LF                            | SQYD                         | EACH                             | HOURL                   | LS                    | MONTH                               | MONTH              | MONTH                                |
| OVERALL   |                                | 8                    |                         | 1970            |                           |                                    |                            | 2                        | 8                                |                 |                  |                  |                        |                        | 5           |                               |                              |                                  | 1370                    |                       | 15                                  | 15                 | 15                                   |
| K & IT RR TRESTLE (056B00284)                           |                                |                      | 5                       |                 | 181                       | 291                                | 1                          |                          |                                  | 900             | 2                |                  | 2                      |                        |             |                               | 63                           |                                  |                         | 1                     |                                     |                    |                                      |
| K & IT RR & 27TH ST (056B00283)                         |                                |                      | 1                       |                 | 46                        | 122                                | 1                          |                          |                                  | 700             | 2                |                  | 2                      |                        |             |                               | 27                           |                                  |                         | 1                     |                                     |                    |                                      |
| NW PKWY & 22ND ST (056B00281 & 056B00282)               |                                |                      |                         |                 |                           |                                    | 1                          |                          |                                  | 500             |                  | 2                |                        | 2                      |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 17TH TO 13TH ST (056B00285)                             |                                |                      | 6                       |                 | 294                       |                                    | 1                          |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         | 1                     |                                     |                    |                                      |
| 13TH TO 7TH ST (056B00293)                              |                                |                      | 8                       |                 | 375                       |                                    | 1                          |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 7TH TO 2ND ST (056B00292)                               |                                |                      |                         |                 |                           |                                    | 1                          |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 3RD TO PRESTON ST (056B00142)                           | 14                             |                      |                         |                 |                           |                                    | 1                          |                          |                                  |                 |                  |                  |                        |                        |             | 280                           |                              | 1                                |                         |                       |                                     |                    |                                      |
| 9TH STREET RAMP 1 (056B00300)                           |                                |                      |                         |                 |                           |                                    |                            |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 9TH STREET RAMP 2 (056B00301)                           |                                |                      |                         |                 |                           |                                    |                            |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 9TH STREET RAMP 2A (056B00299)                          |                                |                      |                         |                 |                           |                                    |                            |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 9TH STREET RAMP 3 (056B00302)                           |                                |                      |                         |                 |                           |                                    |                            |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| 9TH STREET RAMP 4 (056B00298)                           |                                |                      |                         |                 |                           |                                    |                            |                          |                                  |                 |                  |                  |                        |                        |             |                               |                              |                                  |                         |                       |                                     |                    |                                      |
| TOTALS  | 14                             | 8                    | 20                      | 1970            | 896                       | 413                                | 1                          | 2                        | 8                                | 2100            | 4                | 2                | 4                      | 2                      | 5           | 280                           | 90                           | 1                                | 1370                    | 1                     | 15                                  | 15                 | 15                                   |

PERMANENT SEEDING AND EROSION CONTROL

PLACE TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 213.03.05 AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION OF THE NEW DRAINAGE SYSTEM.

ITEM NUMBER

5-10016

PREPARED BY

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SHEET NO.

S4

DRAWING NO.

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FILE NAME:

USER: MaryJo.Dwyer

DATE PLOTTED: April 6, 2021

E-SHEET NAME: S23464 006

MicroStation v10.17.01.58

SPECIFICATIONS

ALL REFERENCES TO THE STANDARD SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND CURRENT SUPPLEMENTAL SPECIFICATIONS. ALL REFERENCES TO THE AASHTO SPECIFICATIONS ARE TO THE FOURTH EDITION 2017 AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS AND 2020 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.

REINFORCEMENT

DIMENSIONS SHOWN FROM THE FACE OF CONCRETE TO BARS ARE TO CENTER OF BARS UNLESS OTHERWISE SHOWN. SPACING OF BARS IS FROM CENTER TO CENTER OF BARS. CLEAR DISTANCE TO FACE OF CONCRETE IS 2 INCHES UNLESS OTHERWISE NOTED. EPOXY COAT BARS DESIGNATED BY SUFFIX (E) IN ACCORDANCE WITH SECTION 811.10 OF THE STANDARD SPECIFICATIONS. USE STIRRUP BEND DIAMETERS FOR BARS DESIGNATED BY SUFFIX (S) IN THE BILL OF REINFORCEMENT.

MATERIAL DESIGN SPECIFICATIONS

FOR CLASS "AA" REINFORCED CONCRETE: f'c = 4,000 PSI

USE CLASS "AA" FREEZE-THAW CONCRETE MIX USING COARSE AGGREGATES #8, 78 OR 9-M

FOR STEEL REINFORCEMENT Fy = 60,000 PSI

BEVELED EDGES

BEVEL ALL EXPOSED EDGES 3/4" UNLESS NOTED OTHERWISE.

COMPLETION OF THE STRUCTURE

THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. MATERIAL, LABOR OR CONSTRUCTION OPERATIONS NOT OTHERWISE SPECIFIED ARE TO BE INCLUDED IN THE BID ITEM MOST APPROPRIATE FOR THE WORK INVOLVED. THIS MAY INCLUDE REMOVAL OF ALL, OR PARTS, OF EXISTING STRUCTURES, PHASE CONSTRUCTION, INCIDENTAL MATERIALS, TEMPORARY WORKS, LABOR OR ANYTHING ELSE REQUIRED TO COMPLETE THE STRUCTURE.

DIMENSIONS

DIMENSIONS SHOWN ON THE PLANS ARE TAKEN FROM THE ORIGINAL CONTRACT PLANS, AND SUBSEQUENT RECONSTRUCTION PLANS. THE CONTRACTOR SHALL VERIFY DIMENSIONS, INCLUDING THICKNESSES OF PARTS, WITH FIELD MEASUREMENTS PRIOR TO ORDERING MATERIALS OR FABRICATING STEEL. ALL PLAN DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEG F. LAYOUT DIMENSIONS ARE HORIZONTAL MEASUREMENTS AND DO NOT NECESSARILY REFLECT REVISIONS.

ON-SITE INSPECTION

THE CONTRACTOR IS RESPONSIBLE FOR MAKING A SITE INSPECTION TO BECOME FAMILIAR WITH THE WORK TO BE DONE AND TO MAKE APPROPRIATE ALLOWANCES FOR ALL WORK INCLUDED IN LUMP SUM BIDS. A SUITABLE METHOD OF PERFORMING THE WORK DESCRIBED HEREIN SHOULD BE INVESTIGATED. SUBMISSION OF A BID WILL BE CONSIDERED EVIDENCE OF THIS INVESTIGATION HAVING BEEN MADE. THE CONTRACTOR WILL NOT BE PAID EXTRA BECAUSE OF SITE CONDITIONS.

PROHIBITED FIELD WELDING

EXCEPT AS SHOWN ON THE PLANS, NO WELDING OF ANY NATURE SHALL BE PERFORMED ON THE LOAD CARRYING MEMBERS OF THE BRIDGE WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR, DIVISION OF BRIDGE DESIGN, AND THEN ONLY IN THE MANNER AND AT THE LOCATIONS DESIGNATED IN THE AUTHORIZATION.

PLANS OF EXISTING STRUCTURE

PLANS OF THE EXISTING STRUCTURE ARE AVAILABLE AS AN AID TO THE CONTRACTOR AND SHALL BE USED TO SUPPLEMENT DETAILS NOT SHOWN ON THE PLANS. THE COMPLETENESS OF THESE DRAWINGS IS NOT GUARANTEED AND NO RESPONSIBILITY IS ASSUMED BY KYTC FOR THEIR ACCURACY. ORIGINAL PLANS INCLUDE:

|                                    |          |
|------------------------------------|----------|
| K&IT RR AND 27TH STREET            | DN 16539 |
| K&IT RR TRESTLE                    | DN 16538 |
| NW PARKWAY AND 22ND STREET         | DN 17123 |
| 17TH STREET TO 13TH STREET         | DN 17122 |
| 13TH STREET TO 7TH STREET          | DN 18573 |
| 9TH STREET RAMPS                   | DN 18574 |
| 7TH STREET TO 2ND STREET           | DN 17470 |
| 3RD STREET TO PRESTON STREET       | DN 15754 |
| I-64 EB SAFETY WIDENING            | DN 19238 |
| 7TH ST TO 17TH ST DRAINAGE REPAIRS | DN 22731 |
| 1ST STREET RAMP                    | DN 23466 |
| PIN & HANGER RETROFIT              | DN 23481 |
| I-64 RIVERSIDE EXPRESSWAY          | DN 26144 |
| RAMP I & IO WIDENING               | DN 26972 |

CONCRETE REMOVAL

PERFORM WORK CAREFULLY DURING CONCRETE REMOVAL TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. ALL REMOVAL SHALL BE TO NEAT SAW CUT LINES. FEATHER EDGES WILL NOT BE PERMITTED. SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVAL 1 INCH DEEP.

CONCRETE MAY BE REMOVED BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE PROPOSED STRUCTURE. REMOVE CONCRETE TO LIMITS AS SHOWN ON THE PLANS. LEAVE EXISTING REINFORCING STEEL IN PLACE AS SHOWN ON THE PLANS.

REINFORCING BARS WHICH ARE SHOWN ON THE PLANS AS REMAINING AND WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH NEW EPOXY COATED BARS OF THE SAME SIZE AND SHAPE, AS APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THOSE BARS.

INCLUDE PAYMENT FOR THIS WORK IN THE APPROPRIATE BID ITEM FOR THE WORK INVOLVED.

REMOVE STEEL

ALL EXISTING STEEL THAT IS REMOVED AND NOT REUSED IN THE COMPLETED STRUCTURE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BRIDGE SITE.

REINFORCED CONCRETE

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:

|                           |  |
|---------------------------|--|
| SLAB TOP REINFORCEMENT    | 3¼" (OVERLAY = 1½", 1¾" CLEAR IN DECK) |
| SLAB BOTTOM REINFORCEMENT | 1"                                     |
| SLAB STIRRUPS             | 1½"                                    |
| FASCIA STIRRUPS           | 2"                                     |
| OTHER REINFORCEMENT       | 2"                                     |

EXISTING REINFORCEMENT

REINFORCEMENT THAT IS TO REMAIN AND BE REUSED SHALL BE CLEANED AND STRAIGHTENED. REINFORCEMENT THAT IS TO BE REUSED AND IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER.

SAWCUTTING

PRIOR TO THE REMOVAL OF EXISTING CONCRETE MASONRY, CUT THE SURFACE WITH A CONCRETE SAW TO THE DEPTH NOTED ON THE PLANS OR ONE INCH TO FACILITATE A NEAT LINE. PAYMENT FOR CUTTING CONCRETE SHALL BE INCIDENTAL TO THE APPROPRIATE PAY ITEM.

ALIGNMENT, STATIONING, PROFILE AND CROSS SLOPE

CENTERLINE ALIGNMENT, BRIDGE STATIONING, PROFILE GRADE, AND CROSS SLOPE DATA WHERE SHOWN ON THE PLANS IS BASED ON ORIGINAL CONSTRUCTION PLANS. NEW CONSTRUCTION SHALL BE ADJUSTED AS REQUIRED TO MATCH THE EXISTING STRUCTURE AS SHOWN.

MECHANICAL COUPLERS

MECHANICAL COUPLERS SHALL DEVELOP A MINIMUM TENSILE STRENGTH OF 125 PERCENT OF SPECIFIED YIELD STRENGTH OF THE SPLICED REINFORCING STEEL. SUBMIT DETAILS AND/OR CATALOG CUTS FOR EACH SIZE SPLICE THAT WILL BE USED TO THE ENGINEER FOR APPROVAL.

PREPARATION OF BAR ENDS

SAW OR SHEAR BARS REQUIRING SPLICING. STRAIGHTEN THE ENDS OF SHEARED BARS. REMOVE BURRS, PAINT, OIL, RUST, SCALE, OR OTHER DELETERIOUS MATERIAL FROM SURFACES. USE WIRE BRUSHES, ABRASIVE BLASTING, OR OTHER CABINET APPROVED METHODS TO CLEAN 2 INCHES BEYOND SLEEVE LOCATIONS IMMEDIATELY BEFORE SPLICING. OBTAIN THE ENGINEER'S APPROVAL FOR BAR END SURFACE PREPARATIONS BEFORE PREPARATION.

BONDING NEW CONCRETE TO HARDENED CONCRETE

BOND NEW CONCRETE TO EXISTING CONCRETE WITH A TWO COMPONENT EPOXY RESIN SYSTEM IN ACCORDANCE WITH SECTION 826 AND 511.03.02 OF THE SPECIFICATIONS. CONSIDER PAYMENT INCIDENTAL TO THE BID ITEM THAT RECEIVES THE EPOXY BOND COATING.

DAMAGE TO THE STRUCTURE

THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND EXPENSE FOR ANY AND ALL DAMAGE TO THE STRUCTURE DURING THE REPAIR AND RETROFIT WORK, EVEN TO THE REMOVAL AND REPLACEMENT OF THE FALLEN SPANS, SHOULD THE FALLEN SPANS RESULT FROM THE CONTRACTOR'S ACTIONS.

CLEANING AND PAINTING

ALL STRUCTURAL STEEL SURFACES TO BE PAINTED SHALL CONFORM TO THE REQUIREMENTS OF SPECIAL NOTE FOR PAINTING STRUCTURAL STEEL REPAIRS.

HIGH STRENGTH BOLTED CONNECTIONS

UNLESS SPECIFIED OTHERWISE, ALL BOLTED CONNECTIONS SHALL BE GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS, NUTS, AND WASHERS. INSTALL HIGH STRENGTH BOLTED CONNECTIONS USING DIRECT TENSION INDICATORS (DTI's) CONFORMING TO SECTION 607.02.05 OF THE STANDARD SPECIFICATIONS. MECHANICALLY ZINC COAT ALL DTI's.

MAINTENANCE OF TRAFFIC

MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE PLANS AND SPECIAL NOTE FOR TRAFFIC CONTROL ON BRIDGE REPAIR CONTRACTS.

PERMITS

THE CONTRACTOR WILL NOT BE REQUIRED TO OBTAIN PERMITS FOR LANE CLOSURES ON LOCAL STREETS. THE CONTRACTOR WILL WORK WITH THE ENGINEER TO COORDINATE WITH METRO LOUISVILLE AND AFFECTED PROPERTIES FOR ACCESS.

PROTECTION OF VEHICLES AND PEDESTRIANS

NO WORK WILL BE ALLOWED OVER MOVING TRAFFIC OR PEDESTRIAN ACCESSIBLE AREAS WITHOUT ALL NECESSARY PRECAUTIONS TO PROTECT VEHICLES, WHETHER MOVING OR PARKED, AND INDIVIDUALS FROM DAMAGE AND HARM CAUSED BY FALLING DEBRIS OR OTHER OBJECTS RESULTING FROM THE WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL ACTIONS IN ACCORDANCE WITH SECTION 107 OF THE STANDARD SPECIFICATIONS.

PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING STRUCTURE, THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, ETC.) ADJACENT TO AND/OR UNDER THE STRUCTURE TO THE ENGINEER FOR APPROVAL.

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| REVISION   |  | DATE   |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY   |  |
| DESIGNED BY: MJ DWYER                              |  | D BARON  |  |
| DETAILED BY: MJ DWYER                              |  | D BARON  |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |  |  |
| COUNTY<br>JEFFERSON                                |  |  |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I T RR TO PRESTON STREET   |  |
| GENERAL NOTES – 1                                  |  |  |  |
| ITEM NUMBER  |  | PREPARED BY  |  |
| 5-10016  |  | <div>Michael Baker<br/>INTERNATIONAL</div> <div>1650 Lyndon Farm Court<br/>Louisville, KY 40223<br/>Phone: (502) 339-3557<br/>MBAKERINTL.COM</div> |  |
|  |  | SHEET NO.<br>S5  |  |
|  |  | DRAWING NO.<br>28870   |  |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKING\DR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM

USER: MaryJo.Dwyer DATE PLOTTED: April 6, 2021

E-SHEET NAME: S23464 006

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DRAINAGE SYSTEM FIELD TESTING

PRIOR TO THE ACCEPTANCE OF THE STRUCTURE BY THE DEPARTMENT, THE DRAINAGE SYSTEM SHALL BE FLUSHED OUT AND TESTED BY THE CONTRACTOR, TO ENSURE THAT IT IS UNOBSTRUCTED AND DOES NOT LEAK. THIS SHALL BE ACCOMPLISHED BY TEMPORARILY PLUGGING THE FREE ENDS OF THE SYSTEM AND FILLING WITH WATER UNDER SYSTEM HEAD PRESSURE. ANY OBSTRUCTION IN THE DRAINAGE SYSTEM PREVENTING THE FREE FLOW OF DRAINAGE SHALL BE REMOVED TO THE COMPLETE SATISFACTION OF THE ENGINEER. CONTRACTOR SHALL CONSIDER THE USE OF PIPE THREAD SEALANT FOR ALL THREADED CONNECTIONS PRIOR TO TEST.

INCLUDE THE COST OF ALL LABOR, EQUIPMENT AND INCIDENTALS TO COMPLETE THE DRAINAGE SYSTEM FIELD TESTING IN THE BID ITEM FOR THE APPROPRIATE FIBERGLASS DRAIN PIPE SIZE OF THE WORK INVOLVED.

STRUCTURAL STEEL

THIS WORK CONSISTS OF REPAIRS TO SPAN 127E, SPAN 127W, SPAN 130W AND PIER GIRDER 110 WEB PLATES AS SPECIFIED IN THE DETAIL DRAWINGS. PERFORM CLEANING AND PAINTING IN ACCORDANCE WITH THIS NOTE, 607.03.23 OF THE STANDARD SPECIFICATIONS AND SPECIAL NOTE FOR PAINTING STRUCTURAL STEEL REPAIRS.

FIELD VERIFY ALL DIMENSIONS FOR REPAIR LOCATION BOLT PATTERNS BEFORE ORDERING MATERIALS. NEW MATERIAL THAT IS UNSUITABLE BECAUSE OF VARIATIONS IN THE EXISTING STRUCTURE SHALL BE REPLACED AT NO COST TO THE DEPARTMENT.

CLEAN STEEL SURFACES OF THE BRIDGE OF ALL DIRT, RUST AND FOREIGN MATTER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. STEEL WITHIN 6 INCHES OF THE WORK LIMITS OF THE RETROFIT LOCATION SHALL BE CLEANED AND PAINTED AS DIRECTED BY THE ENGINEER.

ALL CONNECTION INTERFACE FAYING SURFACES TO RECEIVE AN APPROVED INORGANIC ZINC RICH PRIME COAT MEETING AASHTO CLASS B REQUIREMENTS FOR SLIP COEFFICIENT ON BLAST CLEANED STEEL.

SHOP DRILL BOLT HOLES IN THE NEW STEEL. MATCH DRILL HOLES IN FIELD.

REMOVE ALL CHIPS, BURRS AND FOREIGN MATERIALS RESULTING FROM DRILLING OR CORROSION FROM THE SURFACES TO BE JOINED BEFORE MEMBERS ARE BOLTED. DO NOT DISTORT OR ENLARGE THE HOLES OF THE PARTS DURING ASSEMBLY.

NEW STRUCTURAL STEEL SHALL RECEIVE A SHOP APPLIED APPROVED INORGANIC ZINC RICH PRIME COAT.

ALL STRUCTURAL BOLTS SHALL CONFORM TO ASTM F3125 GRADE A325 TYPE 1 GALVANIZED BOLTS. ALL HOLES ARE 13/16 INCH DIAMETER FOR 3/4 INCH DIA. BOLTS.

INCLUDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, CLEANING, PAINTING AND INCIDENTALS TO COMPLETE THE WORK IN THE LUMP SUM BID FOR APPLICABLE STEEL REPAIR WORK ITEM.

CLEAN DRAINS AT BRIDGES B282, B283, B284, B285, B293

THIS ITEM OF WORK CONSISTS OF COMPLETELY CLEANING ALL DEBRIS, INCLUDING SOIL DEPOSITS, VEGETATION, AND TRASH, FROM ALL EXISTING DECK DRAINS. THE DEBRIS MAY BE FLUSHED THROUGH THE EXISTING DRAINAGE SYSTEM; HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR UNLOGGING ANY PART OF THE EXISTING SYSTEM TO COMPLETE DISPOSAL IN THIS MANNER. THE ENGINEER MAY DIRECT THE CONTRACTOR TO REMOVE THE DRAIN GRATING IF COMPLETE CLEANING CANNOT BE ACHIEVED BY FLUSHING. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY DEBRIS THAT FALLS ON THE BRIDGE DECK AND/OR THE GROUND BELOW DURING CLEANING OPERATIONS. CLEANING SHALL BE DONE BEFORE INSTALLING THE NEW DRAINAGE SYSTEM THAT SERVES THE DRAINS BEING CLEANED. ALL LABOR, EQUIPMENT, GRATE REMOVAL, DEBRIS DISPOSAL, TOOLS AND INCIDENTALS TO COMPLETE THE WORK TO BE INCLUDED IN THE BID ITEM "REMOVE-DRAINAGE".

BRIDGE CLEANING AT BRIDGES B142, B292, B298, B299, B300, B301, B302

THIS ITEM OF WORK IS TO REMOVE DEBRIS, CLEAN DECK DRAINS AND REMOVE VEGETATION IN ACCORDANCE WITH SPECIAL NOTE FOR PREVENTATIVE MAINTENANCE. ALL LABOR, EQUIPMENT, DEBRIS REMOVAL, DECK DRAIN CLEANING, AND INCIDENTALS TO COMPLETE THE WORK TO BE INCLUDED IN THE BID ITEM "BRIDGE CLEANING".

DECK DRAINAGE SYSTEM REMOVAL AT BRIDGES B282, B283, B284, B285, B293

REMOVE AND PROPERLY DISPOSE OF EXISTING UNDERDECK COLLECTION AND DISCHARGE SYSTEMS, INCLUDING, BUT NOT LIMITED TO, PIPES, TROUGHS, DOWNSPOUTS AND MISCELLANEOUS COMPONENTS AND ATTACHMENTS ASSOCIATED WITH THE DRAINAGE SYSTEM.

ALL STEEL THAT IS REMOVED AND NOT REUSED IN THE COMPLETED STRUCTURE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE BRIDGE SITE.

EXISTING DRAINAGE COMPONENTS TO BE INCORPORATED WITH THE NEW DRAINAGE SYSTEM SHALL BE APPROVED BY THE ENGINEER.

ALL REMOVED WELDED CONNECTIONS TO BE GROUND SMOOTH.

ALL LABOR, EQUIPMENT AND INCIDENTALS TO REMOVE THE DRAINAGE SYSTEM IS INCLUDED IN THE BID ITEM "REMOVE - DRAINAGE".

FIBERGLASS DRAIN PIPE

FIBERGLASS PIPE AND FITTINGS SHALL BE REINFORCED THERMOSETTING RESIN PIPE (RTRP) SYSTEMS MEETING THE REQUIREMENTS OF ASTM D2996 WITH AT LEAST 30,000 PSI SHORT TIME RUPTURE STRENGTH HOOPS TENSILE STRESS, AND THE ACCELERATED UV WEATHERING PERFORMANCE REQUIREMENTS OF ASTM G154.

ADHESIVE BONDED SOCKET JOINTS ARE ACCEPTABLE FOR ALL CONNECTIONS OF FIBERGLASS PIPES AND FITTINGS. USE THE SAME TYPE OF RESIN FOR ALL PIPE, FITTINGS AND ADHESIVE. PROVIDE ALL FIBERGLASS PIPE, FITTINGS AND BONDING ADHESIVES FROM SAME MANUFACTURER.

PIGMENT ALL FIBERGLASS PIPE AND FITTINGS TO MATCH THE COLOR OF THE EXISTING STRUCTURAL STEEL UNLESS OTHERWISE SPECIFIED. PAINT, GEL-COAT OR ANY OTHER EXTERIOR COATING WILL NOT BE ACCEPTED FOR THE COLORING OF NEW PIPE AND FITTINGS.

RIGID CONNECTIONS BETWEEN PIPING SYSTEMS AND ROADWAY DRAIN SCUPPERS WILL NOT BE ACCEPTED. MAKE THE DECK OUTLET CONNECTION WITH A FREE FLOATING COLLECTOR ASSEMBLY SIZED 4 INCHES LARGER THAN THE OUTLET PIPE. INCLUDE AN OVERSIZED FIBERGLASS SPLASH GUARD AT EACH COLLECTOR UNIT ASSEMBLY.

SUPPORT RUNS OF PIPE AT SPACING NO GREATER THAN THE LESSER OF THOSE RECOMMENDED BY THE MANUFACTURER OF THE PIPE OR 20 FT. MAXIMUM. DRAINAGE UNDER DECK RUNS OF PIPE SHALL BE SUPPORTED BY STIFFENER PIPE HANGERS COMPRISED OF PIPE SUPPORT HARDWARE ATTACHED TO A BRACKET BOLTED TO THE GIRDER STIFFENER, SEE SHEET NO. D51 FOR DETAILS. SUBMIT PROPOSED DETAILS OF ANY PIPE SUPPORT HARDWARE OR ATTACHMENT TO THE EXISTING STEEL THAT DIFFERS FROM THOSE SPECIFIED FOR REVIEW TO THE ENGINEER PRIOR TO FABRICATION.

AVOID SUPPORTS THAT HAVE POINT CONTACT OR NARROW SUPPORTING AREAS. STANDARD SLING, CLAMP, OR CLEVIS HANGERS AS TYPICALLY USED FOR STEEL PIPE APPLICATIONS MAY BE USED. STRAP WIDTH TO BE 1 1/2 INCH. HANGER THICKNESS TO BE 3/16 INCH.

PROVIDE SUPPORTS THAT HAVE 120 DEGREES OF CONTACT WITH THE PIPE. IF SUPPORT WOULD BE LESS THAN 120 DEGREES OF CONTACT, INSTALL AND BOND A SPLIT FIBERGLASS PIPE PROTECTIVE SLEEVE TO THE PIPE. SPLIT SLEEVE LENGTH SHALL EQUAL PIPE DIAMETER.

ALL CLEANOUTS MUST BE CONVENIENTLY ARRANGED AND EASILY ACCESSIBLE SO THE MAINTENANCE CREW CAN GET TO THEM TO REMOVE OBSTRUCTIONS.

HANDLE AND INSTALL ALL FIBERGLASS PIPE AND FITTINGS ACCORDING TO THE GUIDELINES AND PROCEDURES RECOMMENDED IN THE PRINTED LITERATURE OF THE MANUFACTURER.

INSTALL PIPE TO THE MINIMUM SLOPE SHOWN IN THE PLANS. THE SLOPE MAY BE ADJUSTED WHERE NECESSARY TO ADAPT TO THE EXISTING STRUCTURE, BUT MAY NOT BE LESS THAN THE MINIMUM SLOPE DESIGNATED IN THE PLANS.

WELDED CONNECTIONS WILL NOT BE ALLOWED.

PIPE HANGERS SUSPENDED FROM THE CONCRETE DECK WILL NOT BE ALLOWED.

FASTEN OFFSET PIPE CLAMPS TO CONCRETE COLUMNS AND/OR PIER CAPS USING 3/4" DIA. CONCRETE ANCHORS. EMBED AND INSTALL ANCHORS IN ACCORDANCE WITH THE PROCEDURES RECOMMENDED BY THE MANUFACTURER. GALVANIZE BENT PLATES, PIPE CLAMPS, AND ASSOCIATED FASTENER HARDWARE AFTER FABRICATION. USE LOCTITE THREADLOCKER BLUE 242 OR APPROVED EQUAL ON THE DRAINAGE PIPE SUPPORT HANGERS TO PREVENT THE NUTS FROM LOOSENING DUE TO VIBRATION, AS DIRECTED BY THE ENGINEER.

SUBMIT MANUFACTURER'S SPECIFICATIONS AND/OR CATALOG DATA LISTING FOR PIPE, FITTINGS, AND ALL OTHER COMPONENTS OF THE SYSTEM.

SUBMIT MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION OF ALL PIPE, FITTINGS, AND ATTACHMENT HARDWARE UTILIZED.

CERTIFY THE ADHESIVE FORMULATION TO BE PROVEN SUITABLE FOR THE INTENDED APPLICATION.

THE DRAINAGE PIPE LAYOUT DETAILS AS SHOWN IN THE PLANS ARE TYPICAL OF DETAILS NECESSARY TO COMPLETE THE CONSTRUCTION OF THE DRAINAGE SYSTEM TO COLLECT AND DISPOSE OF WATER FROM DRAIN INLETS ON THE BRIDGE STRUCTURES. SUBMIT DETAILED SHOP DRAWINGS OF THE DRAINAGE SYSTEM FOR REVIEW BY THE ENGINEER IF DIFFERENT FROM DETAILS IN THE PLANS.

PAYMENT FOR THE COMPLETED AND ACCEPTED QUANTITY FOR FIBERGLASS DRAIN PIPE INSTALLED IN THE COMPLETED STRUCTURE WILL BE CONSIDERED AS FULL COMPENSATION FOR ALL WORK REQUIRED TO INSTALL FIBERGLASS PIPE, FITTINGS, JOINTS, PIPE SUPPORTS, ASSOCIATED HARDWARE, AND INCIDENTALS FOR THE APPROPRIATE PIPE SIZE. MEASUREMENT OF QUANTITIES SHALL BE THROUGH THE FITTINGS AND PAID PER LINEAR FOOT.

CLEAN UNDERGROUND PIPING

WHERE UNDERGROUND PIPING EXISTS FOR BRIDGES #142, #281 AND #282, #283 AND #284, COMPLETELY CLEAN ALL DEBRIS, ETC. FROM THE NEW PIPE COUPLING TO THE NEAREST MANHOLE OR PIPE TEE. THE CONTRACTOR SHALL PRESUME THE LENGTH OF PIPE TO BE CLEANED IS ROUGHLY 100 FEET FOR BRIDGES #281 AND #282, 50 FEET FOR BRIDGE #142 AND #283, AND 500 FEET FOR BRIDGE #284. ALL LABOR, EQUIPMENT, ETC. TO COMPLETE THE WORK TO BE INCLUDED IN THE BID ITEM "REMOVE-DRAINAGE".

NEOPRENE EXPANSION JOINT SEAL REPLACEMENT

THIS WORK SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF THE EXISTING STRIP SEAL GLAND ACCORDING TO THE DETAILS AND AT THE LOCATIONS SHOWN ON THE PLANS. THE NEOPRENE SEAL SHALL BE COMPATIBLE WITH THE EXISTING STRIP SEAL RAIL. NEOPRENE JOINT SEAL AND INSTALLATION SHALL CONFORM TO SECTION 609.03.04(E) OF THE STANDARD SPECIFICATIONS, EXCEPT SHOP DRAWINGS ARE NOT REQUIRED.

PAYMENT FOR "JOINT SEAL REPLACEMENT - TRANSVERSE" SHALL BE UNDER SECTION 609.05 AND BE CONSIDER AS FULL COMPENSATION FOR THE COMPLETED AND ACCEPTED QUANTITIES FOR ALL WORK REQUIRED.

CONTRACTOR'S SUBMITTALS

WHERE REQUIRED BY THE PLANS AND SPECIFICATIONS, SUBMIT DESCRIPTIVE INFORMATION THAT WILL ENABLE THE ENGINEER TO DETERMINE WHETHER PROPOSED MATERIALS, EQUIPMENT, AND WORK METHODS ARE IN GENERAL CONFORMANCE WITH THE PLANS.

SUBMIT SEQUENCES, TECHNIQUES AND PROCEDURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, MATERIALS, TEMPORARY STRUCTURES, TOOLS, CONSTRUCTION EQUIPMENT, AND ALL INCIDENTAL OR TEMPORARY DEVICES REQUIRED TO ACCOMPLISH THE RESULT INTENDED BY THIS CONTRACT.

RESIDUAL LEAD PAINT

RESIDUAL LEAD PAINT MAY STILL BE ON THE BRIDGES. THE CONTRACTOR IS ADVISED TO TAKE ALL NECESSARY PROTECTIVE MEASURES INCLUDING WORKER SAFETY AND ENVIRONMENTAL REGULATIONS WHEN PERFORMING SURFACE PREPARATION AND OTHER WORK. THE DEPARTMENT WILL NOT CONSIDER ANY CLAIMS BASED ON RESIDUAL LEAD PAINT.

BEARING PAD REPLACEMENT

THIS WORK SHALL CONSIST OF REMOVAL AND REPLACEMENT IN KIND OF THE ELASTOMERIC BEARING PAD AT THE PIER 7 CATCHER COLUMN IN ACCORDANCE WITH THE PLANS.

ALL CLEANING, PAINTING, MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "BEARING REPLACEMENT".

PIN & HANGER RETROFIT

REMOVE AND REPLACE THE PIN & HANGER ASSEMBLY AT PIER GIRDER 131E IN ACCORDANCE WITH THE PLANS AND SPECIAL NOTE FOR PIN & HANGER ASSEMBLY REPAIR. PROVIDE JACKING AND TEMPORARY SUPPORT FOR GIRDERS P & W IN ACCORDANCE WITH THE PLANS AND SPECIAL NOTE FOR JACKING AND SUPPORTING BRIDGE SPAN.

PRIOR TO BEGINNING ANY FIELD WORK, A STEP-BY-STEP PROCEDURE FOR SUPPORTING THE GIRDERS AND REPLACING THE LINK PLATES AND PINS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE ENGINEER'S APPROVAL.

THE BID ITEM "PIN AND HANGER RETROFIT" SHALL BE MEASURED FOR PAYMENT AS A SINGLE UNIT FOR EACH SET OF LINK PLATES AND PINS REPLACED AND ACCEPTED BY THE ENGINEER. THE UNIT PRICE PER EACH (EA) FOR ITEM "PIN AND HANGER RETROFIT" SHALL BE FULL COMPENSATION FOR ALL CLEANING, PAINTING, LABOR, EQUIPMENT, TOOLS, MATERIALS, ACCESS, AND ANY INCIDENTALS NECESSARY TO COMPLETE THE WORK.

RAILROAD COORDINATION

THE CONTRACTOR SHALL COORDINATE THE DRAINAGE SYSTEM WORK OVER AND ADJACENT TO THE RAILROAD TRACKS IN ACCORDANCE WITH SPECIAL NOTE FOR RAILROAD COORDINATION PRIOR TO STARTING THE WORK.

|             |  |   |
|-------------|--|---|
| ITEM NUMBER | PREPARED BY  | SHEET NO.   |
| 5-10016     | <div>Michael Baker</div> INTERNATIONAL <div>1650 Lyndon Farm Court<br/>Louisville, KY 40223<br/>Phone: (502) 339-3557<br/>MBAKERINTL.COM</div> | <div>S6</div> <div>DRAWING NO.</div> <div>28870</div> |

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| REVISION   |  | DATE                                     |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY                               |  |
| DESIGNED BY: MJ DWYER                              |  | D BARON                                  |  |
| DETAILED BY: MJ DWYER                              |  | D BARON                                  |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |  |  |
| COUNTY<br>JEFFERSON                                |  |  |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I T RR TO PRESTON STREET |  |
| GENERAL NOTES - 2                                  |  |  |  |

## LIRC RAILROAD COORDINATION

THERE CAN BE NO TEMPORARY REDUCTION IN VERTICAL CLEARANCE.

IF CRANES ARE TO BE USED: SUBMIT A DETAILED PROCEDURE FOR DEMOLITION OF EXISTING STRUCTURES OVER OR ADJACENT TO LIRC TRACKS OR RIGHT-OF-WAY. THE PROCEDURE SHALL CLEARLY INDICATE THE CAPACITY OF THE CRANES, LOCATION OF CRANES WITH RESPECT TO THE TRACKS, AND CALCULATED LIFTING LOADS.

DURING ANY DEMOLITION, A PROTECTION SHIELD SHALL BE ERECTED FROM THE UNDERSIDE OF THE BRIDGE OVER THE TRACK AREA TO CATCH FALLING DEBRIS.

A BALLAST PROTECTION SYSTEM CONSISTING OF GEOFABRIC OR CANVAS SHALL BE PLACED OVER THE TRACK STRUCTURE TO KEEP THE BALLAST CLEAN.

THE CONTRACTOR SHALL SUBMIT DETAILED PLANS, WITH SUPPORTING CALCULATIONS, OF THE PROTECTION SHIELD AND BALLAST PROTECTION SYSTEMS FOR APPROVAL PRIOR TO THE START OF DEMOLITION.

## LIRC SAFETY NOTES

ALL WORK IN THE FRARED ZONE (WITHIN 4 FEET FROM OUTSIDE OF THE RAIL ON EACH SIDE OF THE TRACK) WILL BE ALLOWED ONLY WITH A LIRC, FRA QUALIFIED FLAGMAN OR WATCHMAN AS SPECIFIED BY THE LOCAL ENGINEERING REPRESENTATIVE.

ALL WORK BEYOND 4 FEET FROM THE OUTSIDE RAILS AND WITHIN 25 FEET MUST BE DONE UNDER THE SUPERVISION OF A QUALIFIED INSPECTOR OF LIRC FLAGMAN.

CERTAIN TYPES OF WORK DONE BEYOND 25 FEET FROM THE OUTSIDE OF THE RAILS, AND WITH EQUIPMENT THAT WILL NOT REACH BEYOND THIS POINT, MAY BE DONE WITHOUT FLAGGING PROTECTION OR A WATCHMAN. THIS MUST BE APPROVED BY THE LOCAL ENGINEERING REPRESENTATIVE. THE AREA MUST BE PROTECTED BY A CONSTRUCTION FENCE, AND THE WORK MUST BE STATIONARY.

ALL WORKERS WILL REMAIN OFF THE TRACKS, IF NECESSARY TO PERFORM THE WORK ON TRACK, PROTECTION WILL BE PROVIDED AS STATED ABOVE.

ALL WORKERS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THOSE OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND FEDERAL RAILROAD ADMINISTRATION (FRA).

AT LEAST THIRTY (30) DAYS ADVANCED NOTIFICATION MUST BE GIVEN TO THE  
RAILROAD REPRESENTATIVE, TO SCHEDULE A RAILROAD FLAGMAN.

THE CONTRACTOR MAY NOT USE LIRC RIGHT-OF-WAY, FOR STORAGE OF MATERIALS OR EQUIPMENT, WITHOUT PRIOR WRITTEN APPROVAL FROM LIRC.

THE CONTRACTOR SHALL CONDUCT ITS WORK AT ALL TIMES IN A MANNER WHICH WILL PROTECT LIRC'S PROPERTY AND TRACK FACILITIES FROM DAMAGE AND WITHOUT INTERRUPTION TO TRAIN OPERATIONS.

PRIOR TO THE INSTALLATION OF ANY SIGNAGE WITHIN LIRC RIGHT-OF-WAY, CONTRACTORS MUST CONTACT THE RAILROAD'S REPRESENTATIVE FOR LOCATION OF ALL UNDERGROUND SIGNAL UTILITIES.

ANY VIOLATION OF ANY LIRC RULES, REGULATIONS, OR POLICIES MAY RESULT IN REMOVAL OF CONTRACTOR PERSONNEL FROM THE RIGHT-OF-WAY.

NO CRANE OR BOOM EQUIPMENT SHALL BE ALLOWED TO SET UP TO WORK OR PARK WITHIN BOOM DISTANCE PLUS 15 FEET OF THE CENTERLINE OF TRACK WITHOUT SPECIFIC PERMISSION FROM THE RAILROAD. NO CRANE OR BOOM EQUIPMENT SHALL BE ALLOWED TO FOUL TRACK, WORK WITHIN THE FOUL ZONE, OR LIFT A LOAD OVER THE TRACK WITHOUT FLAGGING PROTECTION AND PERMISSION FOR TRACK TIME FROM THE RAILROAD.

## LIRC SAFETY NOTES (CONT.)

ALL WORKMEN AND MACHINE OPERATORS SHALL STAY WITH THEIR MACHINES WHEN CRANE OR BOOM EQUIPMENT IS POINTED TOWARD THE TRACK. ALL CRANES AND BOOM EQUIPMENT SHALL STOP WORK AND CLEAR TRACK WHILE TRAIN IS PASSING. SWINGING LOADS SHALL BE SECURED TO PREVENT MOVEMENT WHILE TRAIN IS PASSING AND NO LOADS SHALL BE SUSPENDED ABOVE A MOVING TRAIN. ALL CRANES AND BOOM EQUIPMENT SHALL BE TURNED AWAY FROM THE TRACK AFTER EACH WORKDAY OR WHENEVER UNATTENDED BY AN OPERATOR.

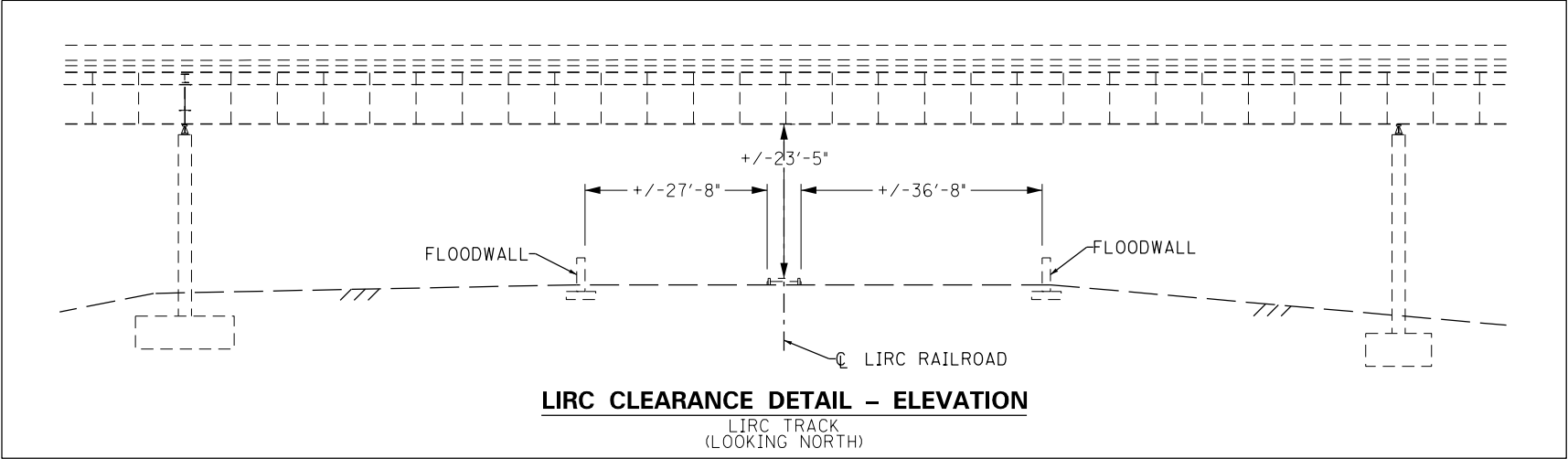
ALL WORK MUST BE STOPPED WHILE TRAINS ARE PASSING WITHIN THE WORK ZONE.

ONE CALL" SERVICES DO NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATIONS LINES. THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE FIVE (5) DAYS IN ADVANCE OF THOSE PLACES WHERE EXCAVATION, PILE DRIVING, OR HEAVY LOADS MAY DAMAGE RAILROAD UNDERGROUND LINES ON RAILROAD PROPERTY. UPON REQUEST FROM THE CONTRACTOR OR AGENCY, RAILROAD SIGNAL FORCES WILL LOCATE AND PAINT MARK OR FLAG RAILROAD UNDERGROUND SIGNAL, COMMUNICATION, AND POWER LINES IN THE AREA TO BE DISTURBED FOR THE THE CONTRACTOR. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE LINES WHICH ARE CRITICAL TO THE SAFETY OF THE RAILROAD AND THE PUBLIC. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD SIGNAL, COMMUNICATION, OR POWER LINE, THE LINE SHALL BE POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION BY THE CONTRACTOR AND PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF RAILROAD SIGNAL REPRESENTATIVE.

ALL SOILS EXCAVATED WITHIN LIRC'S RAILROAD RIGHT-OF-WAY SHALL REMAIN ON LIRC'S RIGHT-OF-WAY. TESTING OF SOILS ON LIRC ROW IS PROHIBITED WITHOUT PRIOR WRITTEN LIRC AUTHORIZATION. ANY SOILS EXCAVATED ON LIRC ROW CAN BE REUSED ON THE ROW PROVIDED PLACING SOILD ALONG LIRC ROW POSES NO ADVERSE IMPACTS TO THE EXISTING TERRAIN, DRAINAGE, OR ENVIRONMENT. SHOULD SOIL NEED TO BE REMOVED FROM LIRC ROW, THE LIRC ENVIRONMENTAL DEPARTMENT WILL SAMPLE THE SOIL FOR DISPOSITION. SOIL STAGED ON LIRC MUST FOLLOW LIRC PROTOCOL AND BE PROPERLY STORED AND/OR PROTECTED FROM THE ELEMENTS AND POTENTIAL EXPOSURE.

THE CONTRACTOR SHALL NOTIFY AND COORDINATE THEIR WORK WITH THE FOLLOWING  
LIRC REPRESENTATIVE:

CROUCH ENGINEERING, INC.  
5115 MARYLAND WAY, SUITE 225  
BRENTWOOD, TN 37027  
ATTN: MR SCOTT VICK, P.E.  
PHONE: 615-791-0630  
EMAIL: SVICK@CROUCHENGINEERING.COM



## NORFOLK SOUTHERN NOTES

ALL WORK ON, OVER, UNDER, OR ADJACENT TO NORFOLK SOUTHERN RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE NORFOLK SOUTHERN "PUBLIC PROJECT MANUAL (NSPPM)."

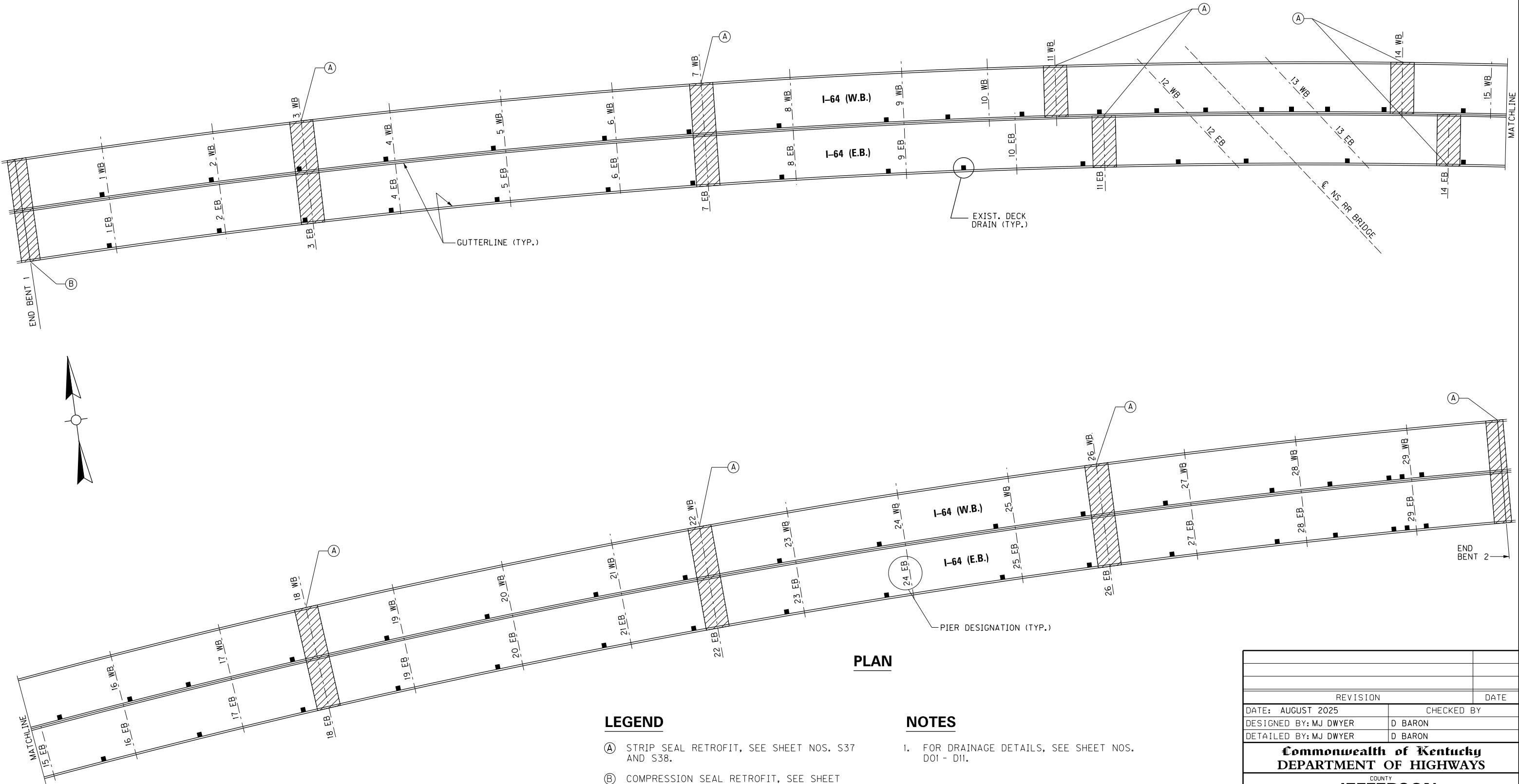
PRIOR TO COMMENCING WORK, THE CONTRACTOR MUST REQUEST FROM THE RAILROAD AND FOLLOW THE LATEST VERSION OF THE "SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS."

ONE CALL\* SERVICES DO NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATIONS LINES. THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE SEVEN (7) DAYS IN ADVANCE OF WORK AT THOSE PLACES WHERE EXCAVATION, PILE DRIVING, OR HEAVY LOADS MAY DAMAGE RAILROAD UNDERGROUND LINES ON RAILROAD PROPERTY. UPON REQUEST FROM THE CONTRACTOR OR AGENCY, RAILROAD SIGNAL FORCES WILL LOCATE AND PAINT MARK OR FLAG RAILROAD UNDERGROUND SIGNAL, COMMUNICATION, AND POWER LINES IN THE AREA TO BE DISTURBED FOR THE CONTRACTOR. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE LINES WHICH ARE CRITICAL TO THE SAFETY OF THE RAILROAD AND THE PUBLIC. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD SIGNAL, COMMUNICATION, OR POWER LINE, THE LINE SHALL BE POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION BY THE CONTRACTOR AND PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF A RAILROAD SIGNAL REPRESENTATIVE.

NORFOLK SOUTHERN WILL BE PROVIDED AS-BUILT DRAWINGS OF THE BRIDGES SHOWING THE ACTUAL CLEARANCES (OF NEW DRAINAGE PIPES WITHIN RAILROAD CLEARANCE ENVELOPE; SEE NSPPM) AS CONSTRUCTED. DEPTH, SIZE, AND LOCATION OF ALL FOUNDATION COMPONENTS SHALL BE SHOWN ON THE DRAWINGS.

AT VARIOUS LOCATIONS ON NS RIGHT-OF-WAY THE PROPOSED PROJECT WILL NOT CHANGE THE QUANTITY AND/OR CHARACTER OF FLOW TO NS; NO INCREASED IMPACTS TO NS DRAINAGE WILL OCCUR.

|             |   |                                 |
|-------------|---|---------------------------------|
| ITEM NUMBER | <div> <div>PREPARED BY</div> <div>  <div> 1650 Lyndon Farm Court<br/> Louisville, KY 40223<br/> Phone: (502) 339-3557<br/> MBAKERINTL.COM </div> </div> </div> | SHEET NO.<br><div>S7</div>      |
|             |   | DRAWING NO.<br><div>28870</div> |
| 5-10016     |   |                                 |



LEGEND

- (A) STRIP SEAL RETROFIT, SEE SHEET NOS. S37 AND S38.
- (B) COMPRESSION SEAL RETROFIT, SEE SHEET NO. S39.

NOTES

- FOR DRAINAGE DETAILS, SEE SHEET NOS. D01 - D11.

BRIDGE - B284

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                                    |
| DATE: AUGUST 2025   | CHECKED BY                               |   |
| DESIGNED BY: MJ DWYER   | D BARON                                  |   |
| DETAILED BY: MJ DWYER   | D BARON                                  |   |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |
| COUNTY<br>JEFFERSON   |  |   |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |   |
| LAYOUT – NS RR TRETTLE  |  |   |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |  | SHEET NO.<br>S8<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |   |

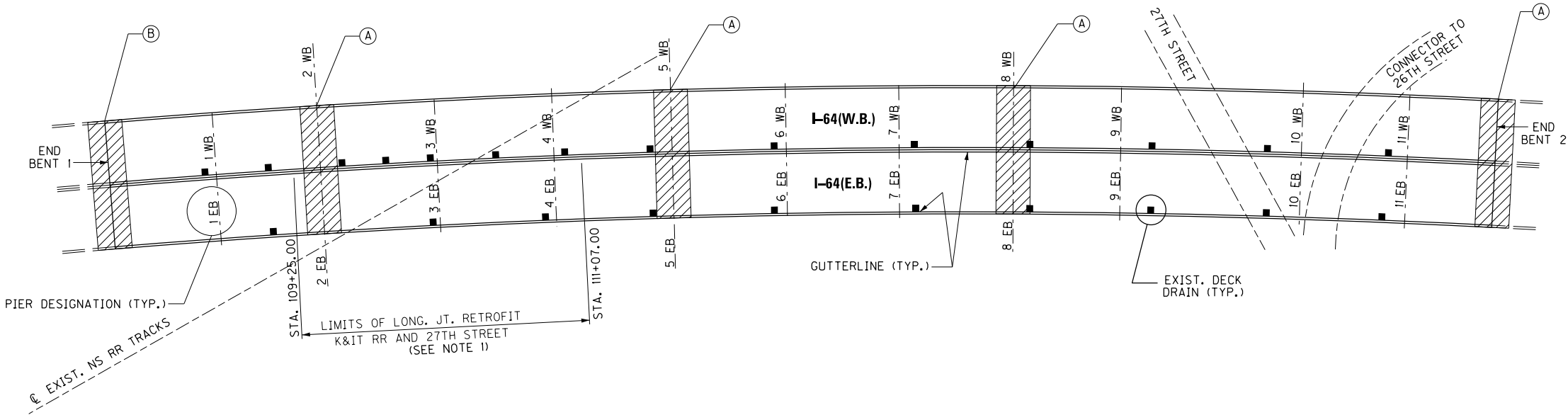
FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: April 4, 2023  
E-SHEET NAME: S23464 006  
MicroStation v10.17.01.58

LEGEND

- Ⓐ STRIP SEAL RETROFIT, SEE SHEET NOS. S37 AND S38.
- Ⓑ COMPRESSION SEAL RETROFIT, SEE SHEET NO. S39.

NOTES

1. FOR LONGITUDINAL JOINT RETROFIT DETAILS, SEE SHEET NO. S40.
2. FOR DRAINAGE DETAILS, SEE SHEET NOS. D12 - D17.



PLAN

BRIDGE - B283

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                               |                      |
| DESIGNED BY: MJ DWYER   | D BARON                                  |                      |
| DETAILED BY: MJ DWYER   | D BARON                                  |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                      |
| COUNTY<br>JEFFERSON   |  |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |                      |
| LAYOUT - NS RR & 27TH ST  |  |                      |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |  | SHEET NO.<br>S9      |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |

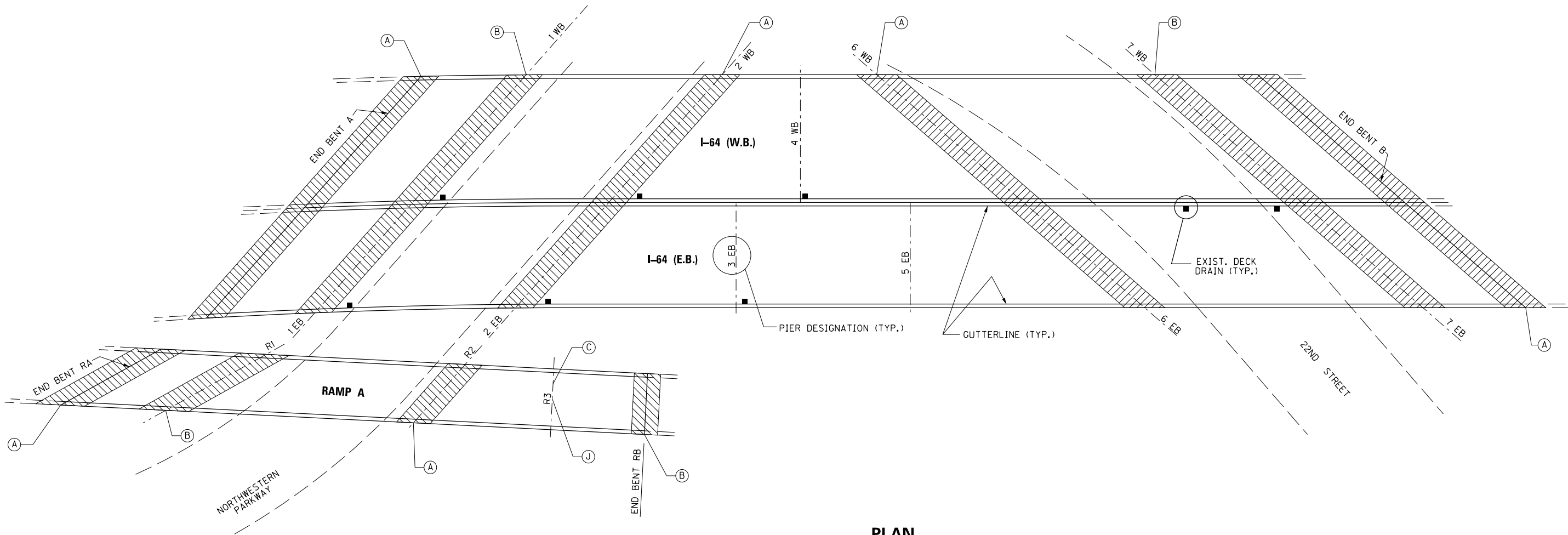
FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM\DWYER

USER: MaryJo.Dwyer

DATE PLOTTED: December 1, 2023

E-SHEET NAME: S23464 006

MicroStation v10.17.01.58



## LEGEND

- (A) STRIP SEAL RETROFIT, SEE SHEET NOS. S37 AND S38.
- (B) COMPRESSION SEAL RETROFIT, SEE SHEET NO. S39.
- (C) PIER COLUMN CONCRETE REPAIR, SEE SHEET NO. S24.  
PIER R3, EAST COLUMN
- (J) PIER R3 RETROFIT, SEE SHEET NOS. S22-S23.

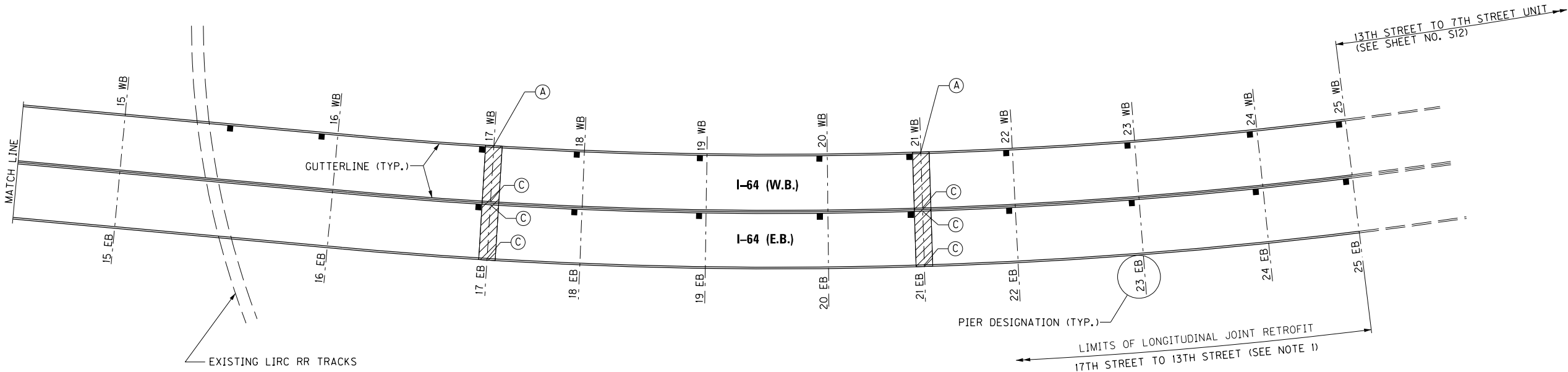
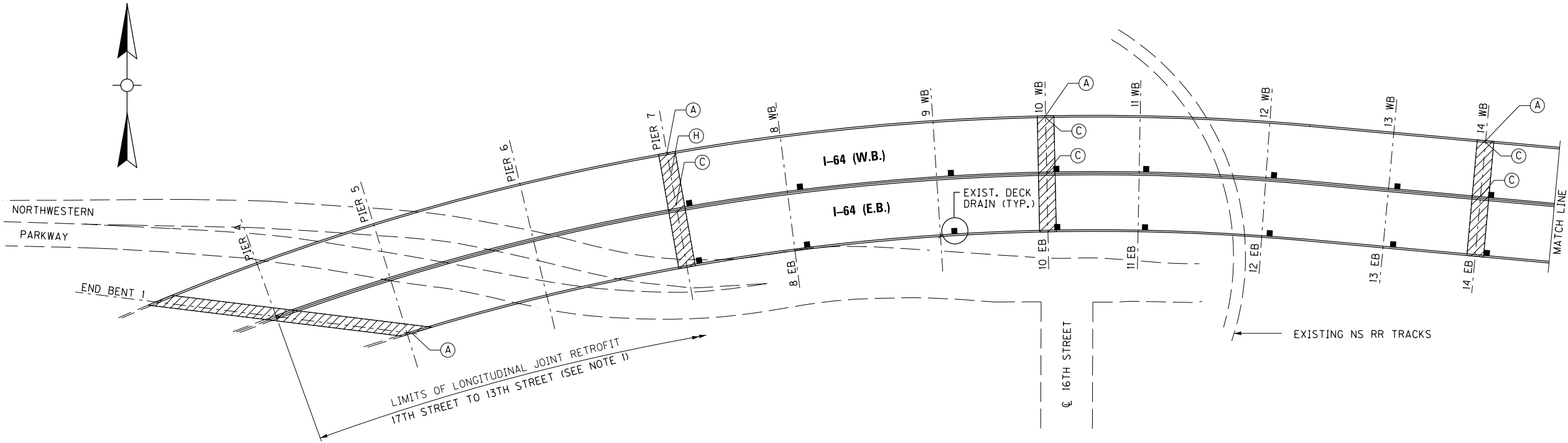
## NOTES

- FOR DRAINAGE DETAILS, SEE SHEET NOS. D18 - D21.

RAMP A BRIDGE - B281  
MAINLINE BRIDGE - B282

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                               |                      |
| DESIGNED BY: MJ DWYER   | D BARON                                  |                      |
| DETAILED BY: MJ DWYER   | D BARON                                  |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                      |
| COUNTY<br>JEFFERSON   |  |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |                      |
| LAYOUT – NW PKWY & 22ND ST  |  |                      |
| PREPARED BY   |  | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |  | S10                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |



PLAN

LEGEND

- Ⓐ STRIP SEAL RETROFIT, SEE SHEET NOS. S37 AND S38.
- Ⓒ PIER COLUMN CONCRETE REPAIR, SEE SHEET NO. S24.  
PIER 7, MIDDLE COLUMN  
PIER 10W, NORTH & SOUTH COLUMN  
PIER 14W, NORTH & SOUTH COLUMN  
PIER 17E, NORTH & SOUTH COLUMN  
PIER 17W, SOUTH COLUMN  
PIER 21E, NORTH & SOUTH COLUMN  
PIER 21W, SOUTH COLUMN
- Ⓗ ELASTOMERIC BEARING PAD REPLACEMENT AT PIN AND HANGER SUPPORT COLUMN, SEE SHEET NO. S25.

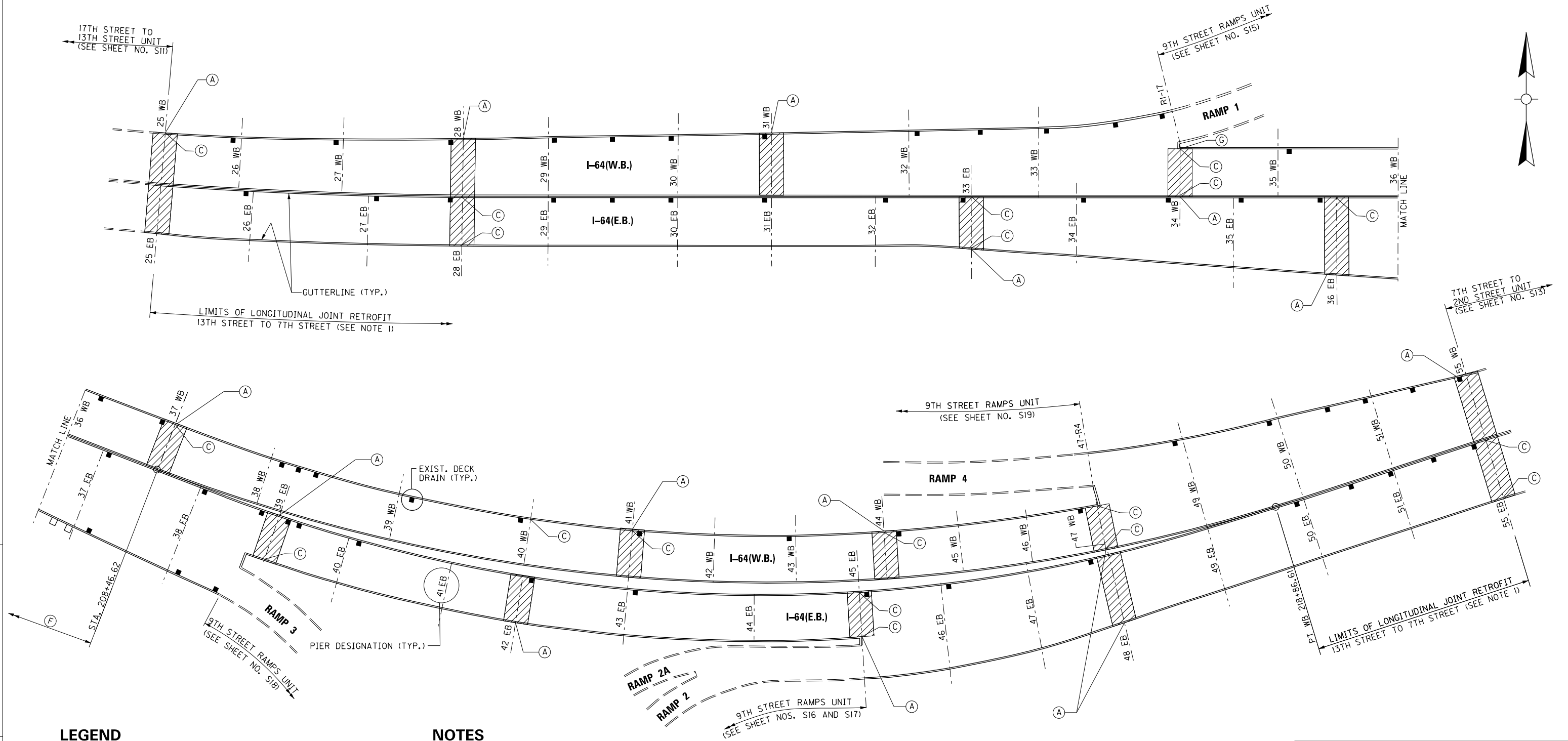
NOTES

- 1. FOR LONGITUDINAL JOINT RETROFIT DETAILS, SEE SHEET NO. S40.
- 2. FOR DRAINAGE DETAILS, SEE SHEET NOS. D22 - D32.
- 3. FOR FATIGUE RETROFITS, SEE SHEET NOS. S41 - S47.

BRIDGE - B285

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                               |                      |
| DESIGNED BY: MJ DWYER   | D BARON                                  |                      |
| DETAILED BY: MJ DWYER   | D BARON                                  |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                      |
| COUNTY<br>JEFFERSON   |  |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |                      |
| LAYOUT – 17TH TO 13TH STREET  |  |                      |
| PREPARED BY   |  | SHEET NO.            |
| <div>Michael Baker<br/>INTERNATIONAL</div>  |  | S11                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |



## LEGEND

- (A) STRIP SEAL RETROFIT, SEE SHEET NOS. S37 AND S38.
- (C) PIER COLUMN CONCRETE REPAIR, SEE SHEET NO. S24.
  - PIER 25W, NORTH COLUMN
  - PIER 28E, NORTH & SOUTH COLUMN
  - PIER 33E, NORTH & SOUTH COLUMN
  - PIER 34W, NORTH & SOUTH COLUMN
  - PIER 36E, NORTH COLUMN
  - PIER 37W, NORTH COLUMN
  - PIER 39E, SOUTH COLUMN
  - PIER 40W, NORTH COLUMN
  - PIER 41W, NORTH CATCHER COLUMN
  - PIER 44W, NORTH COLUMN
  - PIER 45E, NORTH & NORTHERN MIDDLE COLUMN
  - PIER 47W, SOUTHERN MIDDLE & SOUTH COLUMN
  - PIER 55E, NORTH & SOUTH COLUMN
- (F) LIMITS OF LONGITUDINAL JOINT RETROFIT, 13TH STREET TO 7TH STREET (SEE NOTE 1).
- (G) PIER 34WB DECK RETROFIT, SEE SHEET NOS. S35 AND S36.

## NOTES

1. FOR LONGITUDINAL JOINT RETROFIT DETAILS, SEE SHEET NO. S40.
2. FOR DRAINAGE DETAILS, SEE SHEET NOS. D33 - D50.
3. FOR FATIGUE RETROFITS, SEE SHEET NOS. S48 - S58.

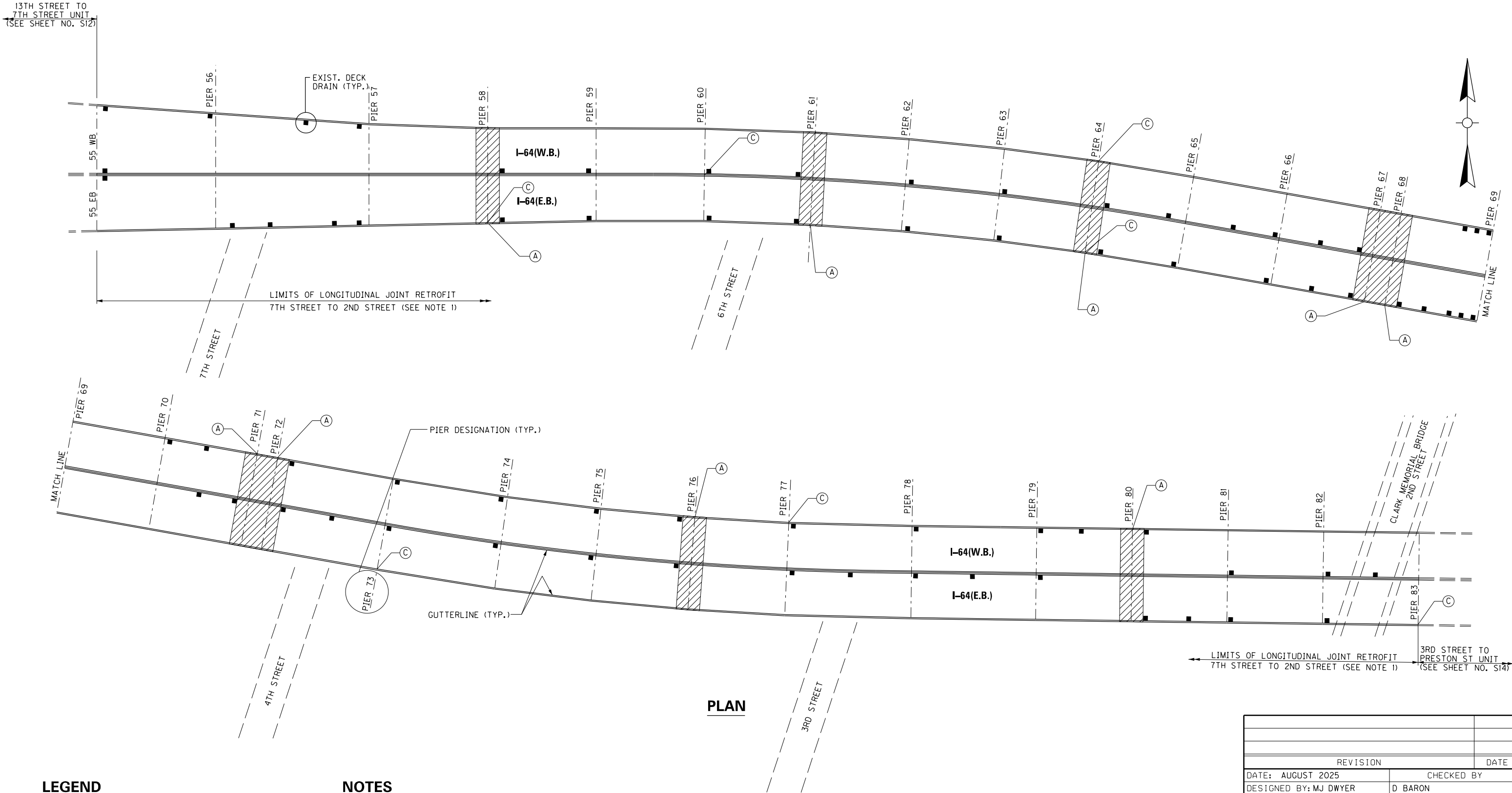
## PLAN

**BRIDGE – B293**

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |   | DATE         |  |
| DATE: AUGUST 2025   |   | CHECKED BY   |  |
| DESIGNED BY: MJ DWYER   |   | D BARON      |  |
| DETAILED BY: MJ DWYER   |   | D BARON      |  |
| <b>Commonwealth of Kentucky</b><br><b>DEPARTMENT OF HIGHWAYS</b>                          |   |              |  |
| COUNTY<br><b>JEFFERSON</b>  |   |              |  |
| ROUTE<br><b>I-64</b>  | CROSSING<br><b>K &amp; I T RR TO PRESTON STREET</b> |              |  |
| <b>LAYOUT - 13TH TO 7TH STREET</b>  |   |              |  |
| PREPARED BY   |   | SHEET NO.    |  |
| <b>Michael Baker</b>  |   | <b>S12</b>   |  |
| INTERNATIONAL   |   | DRAWING NO.  |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | <b>28870</b> |  |





PLAN

LEGEND

- Ⓐ STRIP SEAL RETROFIT, SEE SHEET NOS. S37 AND S38.
- Ⓒ PIER COLUMN CONCRETE REPAIR, SEE SHEET NO. S24  
PIER 58, SOUTH COLUMN  
PIER 60, MIDDLE COLUMN  
PIER 64, NORTH & SOUTH COLUMN  
PIER 73, SOUTH COLUMN  
PIER 77, NORTH COLUMN  
PIER 83, SOUTH COLUMN

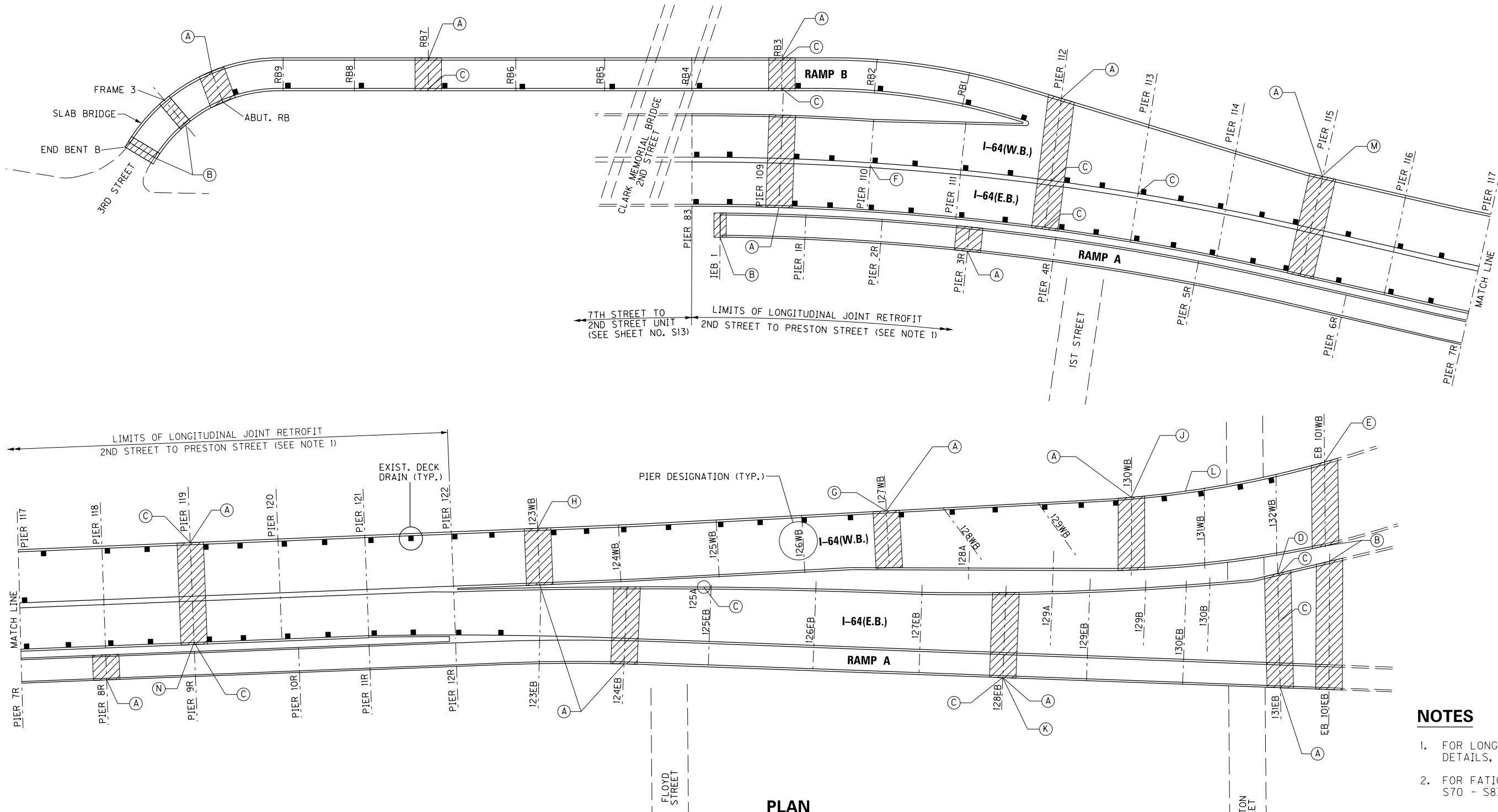
NOTES

- FOR LONGITUDINAL JOINT RETROFIT DETAILS, SEE SHEET NO. S40.
- FOR FATIGUE RETROFITS, SEE SHEET NOS. S59 - S69.

BRIDGE – B292

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                                     |
| DATE: AUGUST 2025   | CHECKED BY                               |  |
| DESIGNED BY: MJ DWYER   | D BARON                                  |  |
| DETAILED BY: MJ DWYER   | D BARON                                  |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |  |
| COUNTY<br>JEFFERSON   |  |  |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |  |
| LAYOUT – 7TH TO 2ND STREET  |  |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL                                     |  | SHEET NO.<br>S13<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |  |



PLAN

LEGEND

- (A) STRIP SEAL GLAND RETROFIT, SEE SHEET NOS. S37 AND S38.

(B) COMPRESSION SEAL RETROFIT, SEE SHEET NO. S39.

(C) PIER COLUMN CONCRETE REPAIR, SEE SHEET NO. S24  
PIER RB3, NORTH & SOUTH COLUMN  
PIER RB7, SOUTH COLUMN  
PIER 112, MIDDLE & SOUTH COLUMN  
PIER 113, MIDDLE COLUMN  
PIER 119, NORTH & SOUTH COLUMN  
PIER 125A COLUMN  
PIER 128E, SOUTH COLUMN  
PIER 131E, NORTH & SOUTH MIDDLE COLUMN

(D) PIER 131E PIN AND HANGER REHABILITATION, GIRDER P, SEE SHEET NO. S33  
GIRDER W, SEE SHEET NO. S34
- (E) END BENT 101W REHABILITATION, SEE SHEET NOS. S20-S21.

(F) PIER GIRDER 110 RETROFIT, SEE SHEET NO. S26.

(G) STEEL REPAIRS AT GIRDERS B, C, D AND F, SPAN 127W, SEE SHEET NO. S31.

(H) STEEL REPAIRS AT GIRDERS C, D AND E, SPAN 123W, SEE SHEET NO. S29.

(J) STEEL REPAIRS AT GIRDERS B AND D, SPAN 129W, SEE SHEET NO. S32.

(K) STEEL REPAIR AT CROSS GIRDER 128E, SEE SHEET NO. S30.

(L) STEEL REPAIR NEAR CROSS GIRDER 131W, SPAN 130W, SEE SHEET NO. S32.
- (M) STEEL REPAIR AT GIRDER B, SPAN 115, SEE SHEET NO. S27.

(N) STEEL REPAIR AT GIRDER H, SPAN 118, SEE SHEET NO. S28.

NOTES

- FOR LONGITUDINAL JOINT RETROFIT DETAILS, SEE SHEET NO. S40.
- FOR FATIGUE RETROFITS, SEE SHEET NOS. S70 - S83.

BRIDGE – B142

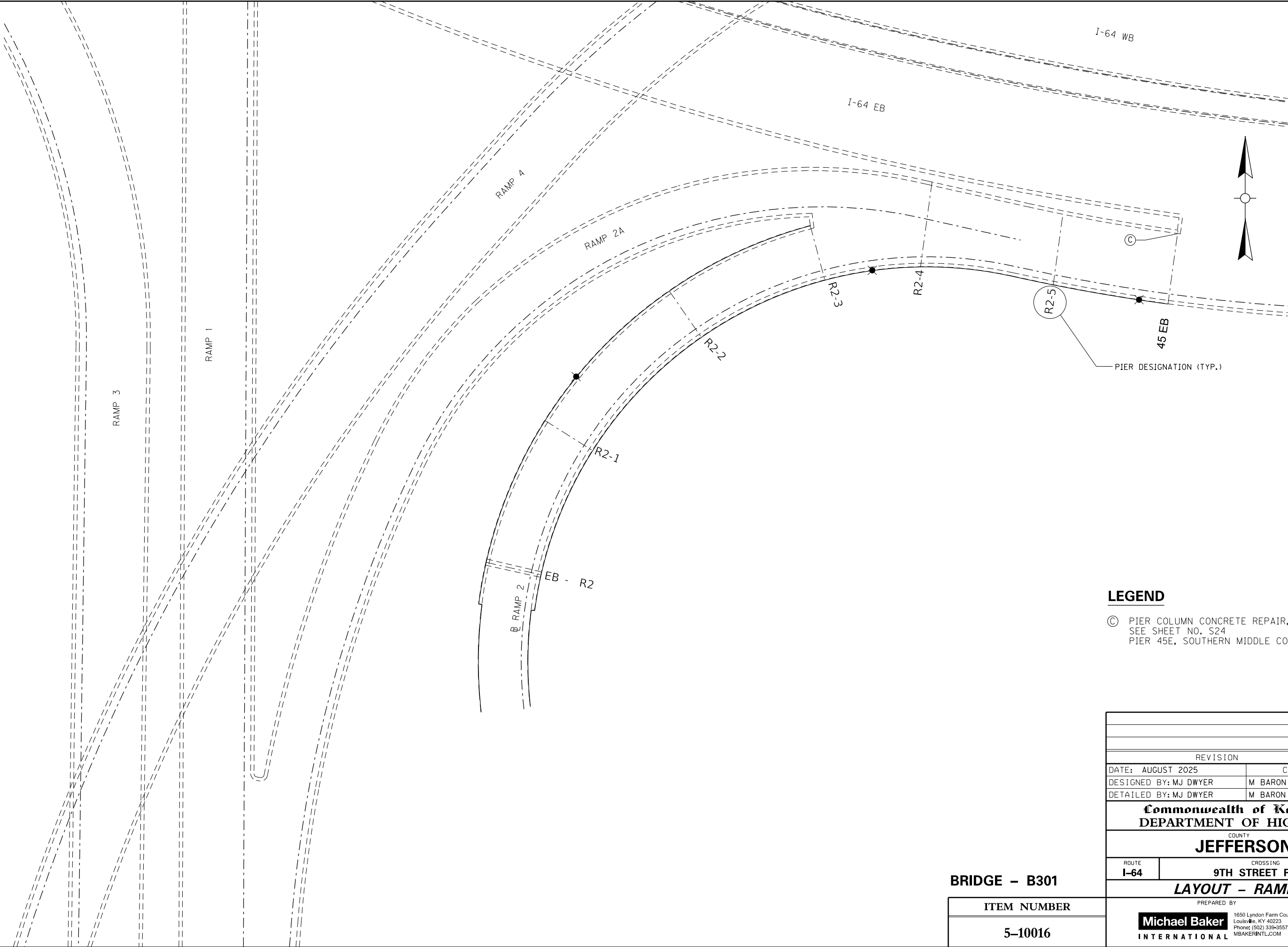
| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE   |
| DATE: AUGUST 2025   | CHECKED BY                               |  |
| DESIGNED BY: MJ DWYER   | D BARON                                  |  |
| DETAILED BY: MJ DWYER   | D BARON                                  |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |  |
| COUNTY<br>JEFFERSON   |  |  |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |  |
| LAYOUT – 3RD TO PRESTON ST  |  |  |
| PREPARED BY<br><div>1650 Lyndon Farm Court<br/>Louisville, KY 40223<br/>Phone: (502) 339-3557<br/>MBAKERINTL.COM</div><br><b>Michael Baker</b><br>INTERNATIONAL |  | SHEET NO.<br><b>S14</b><br>DRAWING NO.<br><b>28870</b> |



© PIER COLUMN CONCRETE REPAIR,  
SEE SHEET NO. S24  
PIER RI-1, EAST COLUMN  
PIER RI-2, WESTERN MIDDLE COLUMN  
PIER RI-3  
PIER RI-6  
PIER RI-8  
PIER RI-17, NORTH COLUMN

|                        |   |             |                             |
|------------------------|---|-------------|-----------------------------|
| <b>BRIDGE - B300</b>   |   | <b>I-64</b> | <b>9TH STREET RAMPS</b>     |
| <b>LAYOUT - RAMP 1</b> |   |             |                             |
| <b>ITEM NUMBER</b>     | PREPARED BY<br><b>Michael Baker</b><br>INTERNATIONAL                                      |             | SHEET NO.<br><b>S15</b>     |
| <b>5-10016</b>         | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |             | DRAWING NO.<br><b>28870</b> |



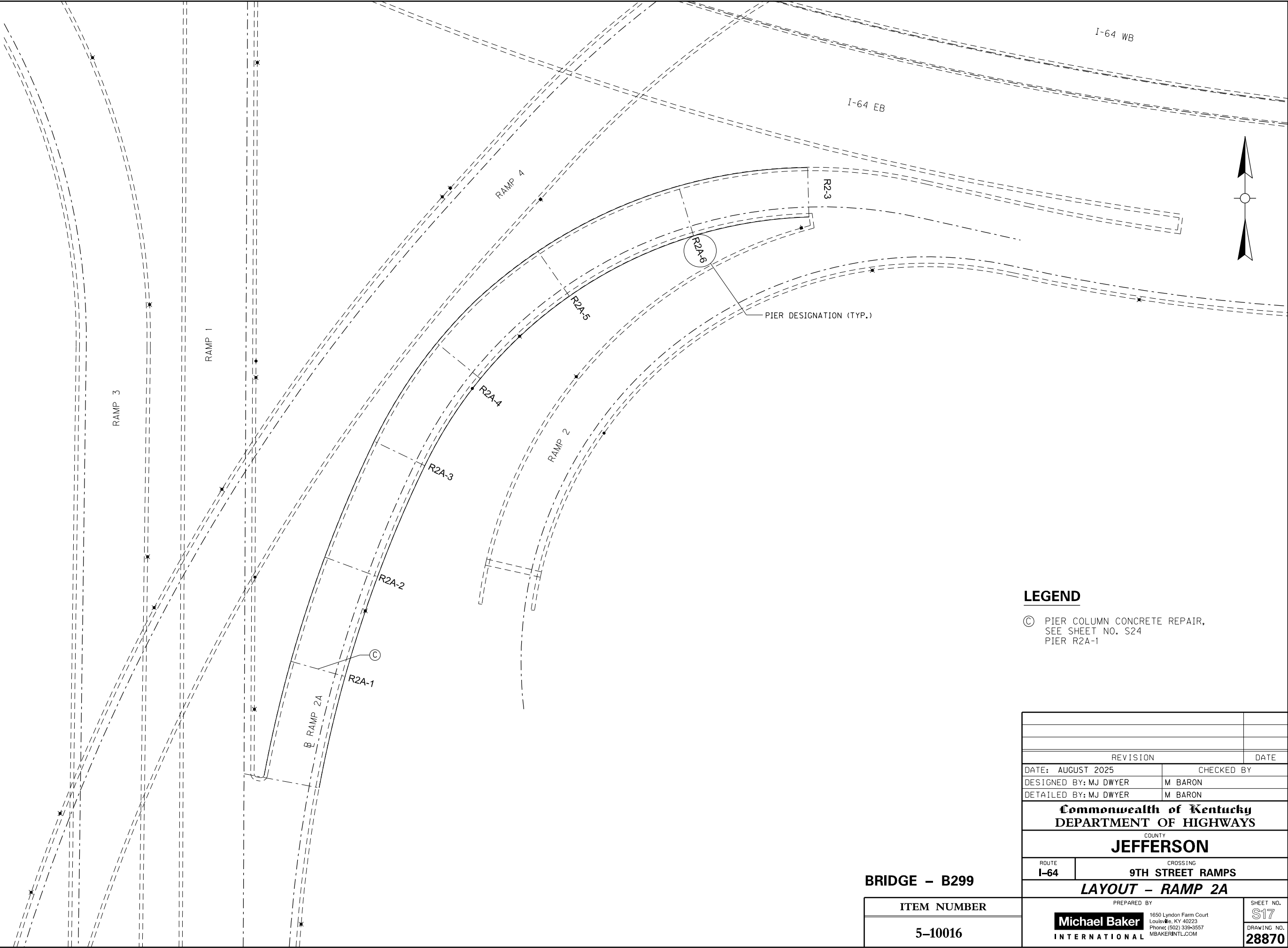
**LEGEND**

Ⓢ PIER COLUMN CONCRETE REPAIR,  
SEE SHEET NO. S24  
PIER 45E, SOUTHERN MIDDLE COLUMN

BRIDGE – B301

| ITEM NUMBER |
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| 5–10016     |

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|   |                              |                      |
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| REVISION  |                              | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                   |                      |
| DESIGNED BY: MJ DWYER   | M BARON                      |                      |
| DETAILED BY: MJ DWYER   | M BARON                      |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                              |                      |
| COUNTY<br>JEFFERSON   |                              |                      |
| ROUTE<br>I-64   | CROSSING<br>9TH STREET RAMPS |                      |
| LAYOUT – RAMP 2   |                              |                      |
| PREPARED BY   |                              | SHEET NO.            |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |                              | S16                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                              | DRAWING NO.<br>28870 |



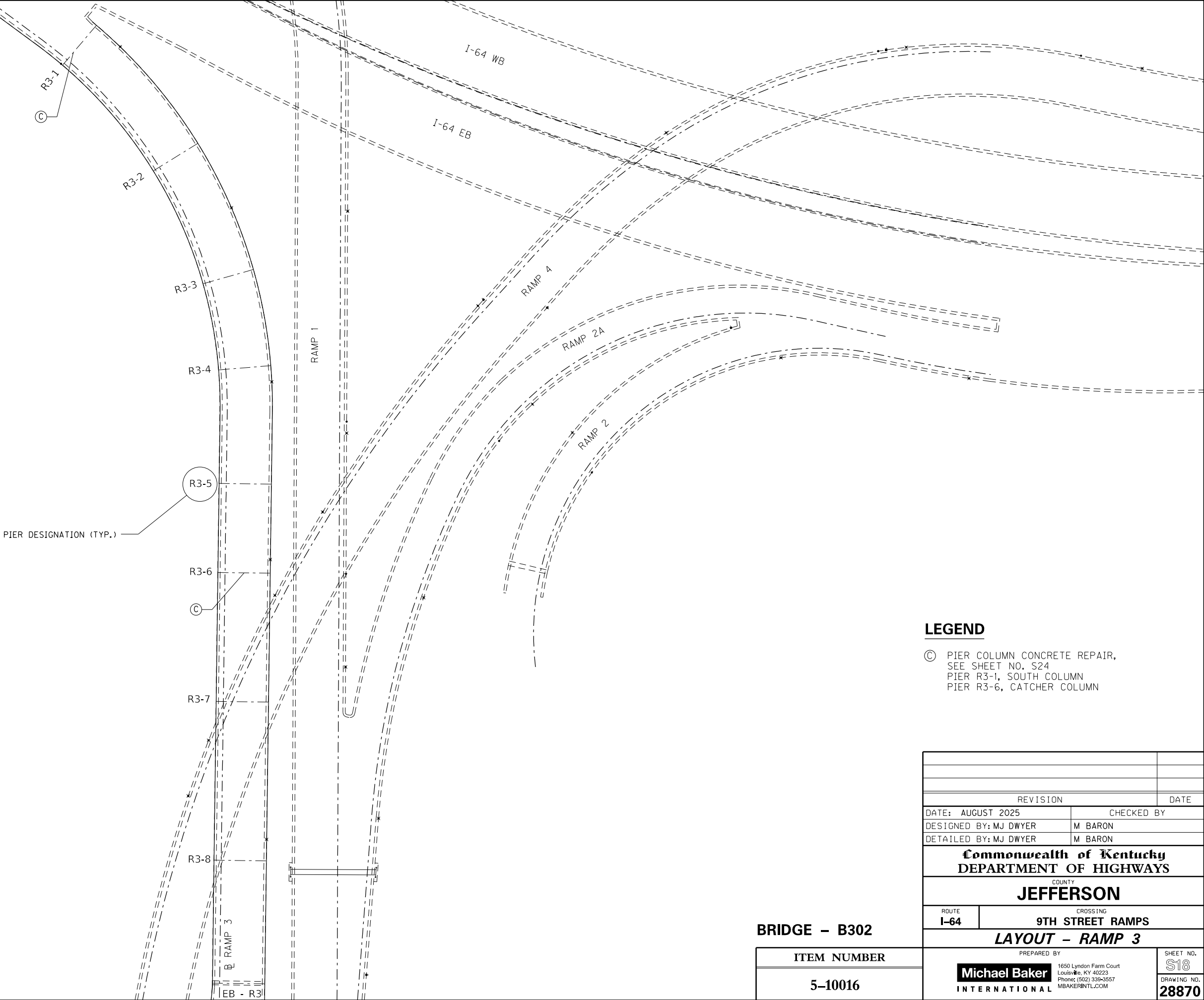
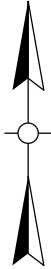
**LEGEND**

© PIER COLUMN CONCRETE REPAIR,  
SEE SHEET NO. S24  
PIER R2A-1

BRIDGE – B299

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |                              | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                   |                      |
| DESIGNED BY: MJ DWYER   | M BARON                      |                      |
| DETAILED BY: MJ DWYER   | M BARON                      |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                              |                      |
| COUNTY<br>JEFFERSON   |                              |                      |
| ROUTE<br>I-64   | CROSSING<br>9TH STREET RAMPS |                      |
| LAYOUT – RAMP 2A  |                              |                      |
| PREPARED BY   |                              | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |                              | S17                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                              | DRAWING NO.<br>28870 |



LEGEND

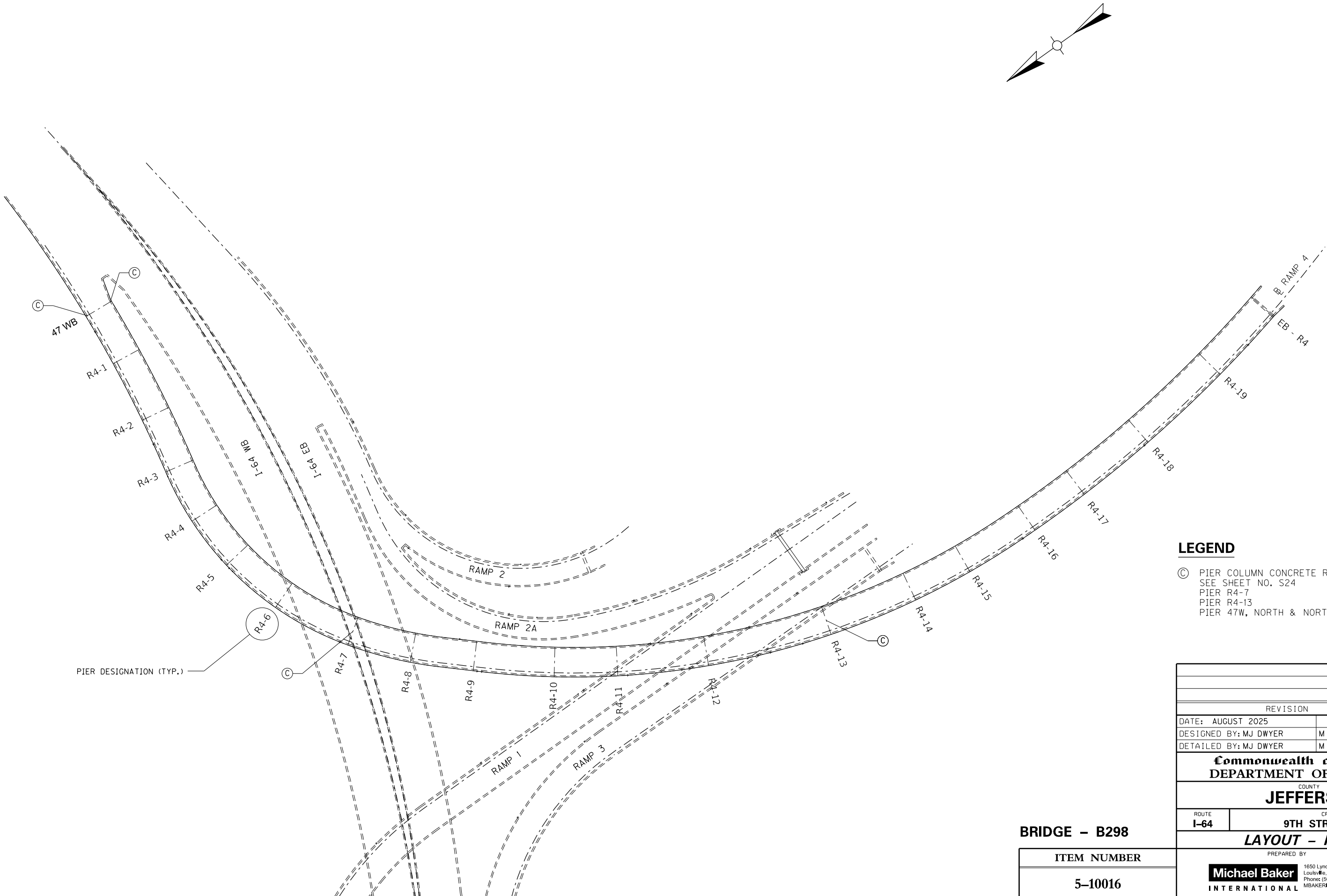
C

PIER COLUMN CONCRETE REPAIR,  
SEE SHEET NO. S24  
PIER R3-1, SOUTH COLUMN  
PIER R3-6, CATCHER COLUMN

BRIDGE – B302

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |                              | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                   |                      |
| DESIGNED BY: MJ DWYER   | M BARON                      |                      |
| DETAILED BY: MJ DWYER   | M BARON                      |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                              |                      |
| COUNTY<br>JEFFERSON   |                              |                      |
| ROUTE<br>I-64   | CROSSING<br>9TH STREET RAMPS |                      |
| LAYOUT – RAMP 3   |                              |                      |
| PREPARED BY   |                              | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |                              | S18                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                              | DRAWING NO.<br>28870 |



**LEGEND**

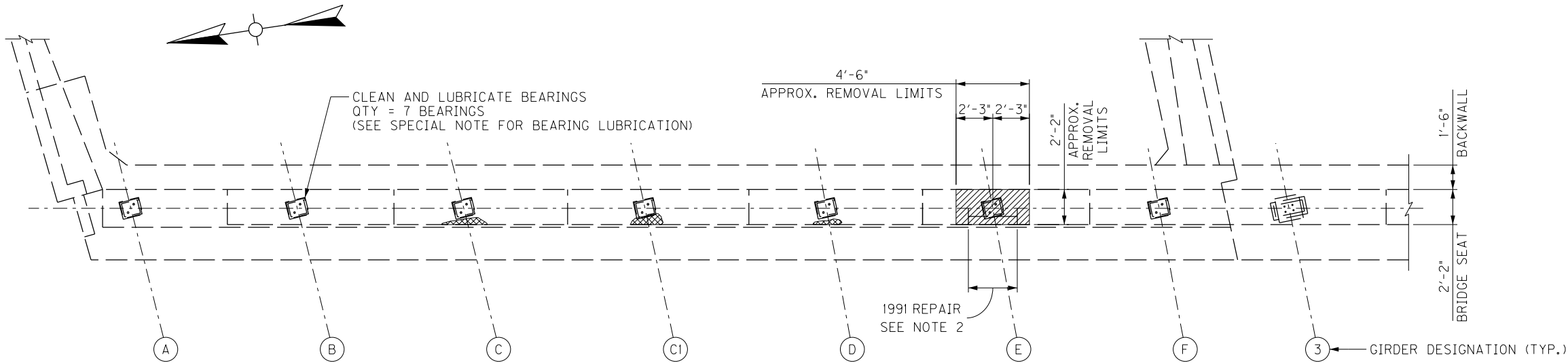
Ⓢ PIER COLUMN CONCRETE REPAIR,  
SEE SHEET NO. S24  
PIER R4-7  
PIER R4-13  
PIER 47W, NORTH & NORTHERN MIDDLE COLUMN

|   |                              |                      |
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| REVISION  |                              | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                   |                      |
| DESIGNED BY: MJ DWYER   | M BARON                      |                      |
| DETAILED BY: MJ DWYER   | M BARON                      |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                              |                      |
| COUNTY<br>JEFFERSON   |                              |                      |
| ROUTE<br>I-64   | CROSSING<br>9TH STREET RAMPS |                      |
| LAYOUT – RAMP 4   |                              |                      |
| PREPARED BY   |                              | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |                              | S19                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                              | DRAWING NO.<br>28870 |

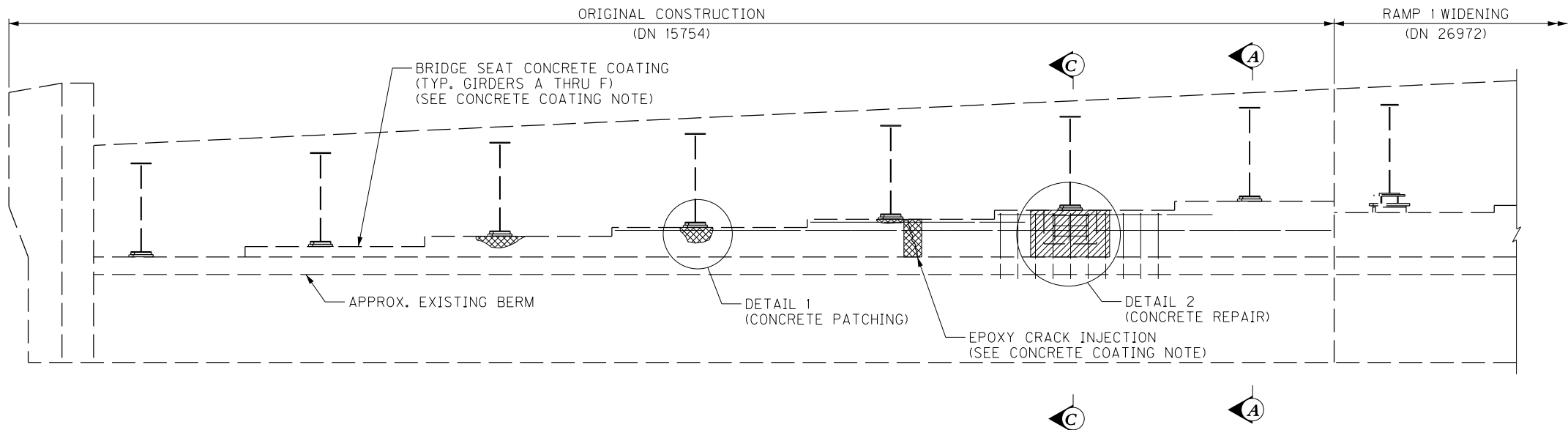
BRIDGE - B298

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| ITEM NUMBER |
| 5-10016     |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



**PLAN**  
GIRDERS NOT SHOWN FOR CLARITY



**ELEVATION**

**END BENT 101W REPAIRS**

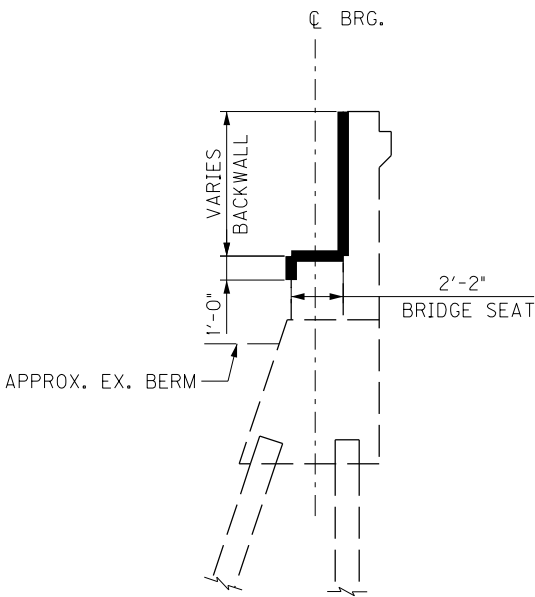
THIS WORK CONSISTS OF CONCRETE PATCHING, AND REMOVING, REPLACING CONCRETE PORTIONS OF THE BRIDGE SEAT AS SHOWN ON THE PLANS. THE WORK INCLUDES CLEANING AND LUBRICATING THE EXISTING STEEL BEARINGS AND GIRDER ENDS, CLEANING AND COATING THE CONCRETE BRIDGE SEAT, AND REPLACING ANCHOR BOLTS AT GIRDER E.

**CONCRETE COATING**

THIS WORK CONSISTS OF APPLICABLE REPAIRS AND SURFACE PREPARATION TO APPLY CONCRETE COATING TO THE CONCRETE BRIDGE SEAT HORIZONTAL AND VERTICAL SURFACES. REPAIR THE AREAS OF DETERIORATED CONCRETE AND CRACKS SHOWN AND/OR THOSE DIRECTED BY THE ENGINEER. PERFORM THIS WORK IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE COATING.

CONCRETE COATING APPLIED TO THE FRONT FACE OF THE ABUTMENT BACKWALL, TOPS AND FACES OF THE BRIDGE SEAT FOR THE ENTIRE LENGTH OF THE ORIGINAL ABUTMENT WITHIN THE LIMITS SHOWN.

PAYMENT FOR THIS WORK IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE COATING.



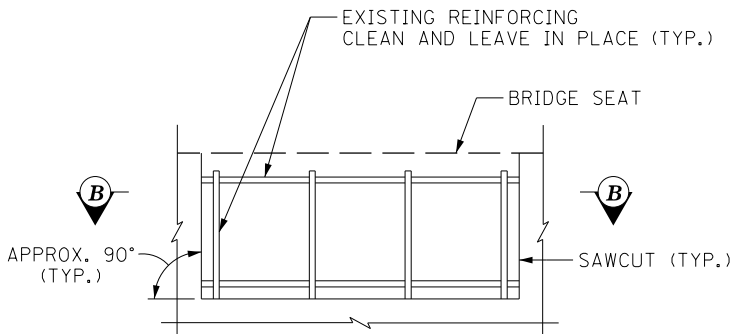
**SECTION A-A**  
SHOWING CONCRETE COATING LIMITS

**NOTES**

- FOR DETAIL 2 AND SECTION C-C, SEE SHEET NO. S21.
- 1991 CONCRETE REPAIR (DN 22413) WAS PERFORMED AT GIRDER E. AN APPROX. 6" MIN. x 23" x 3'-0" WEDGE SHAPED AREA WAS PATCHED.

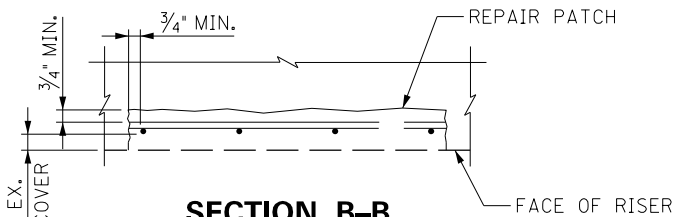
**LEGEND**

- APPROX. CONCRETE SPALL OR CRACK LIMITS
- GIRDER E CONCRETE REMOVAL LIMITS



**DETAIL 1 - CONCRETE PATCHING**

LOOKING AT BRIDGE SEAT VERTICAL FACE



**SECTION B-B**

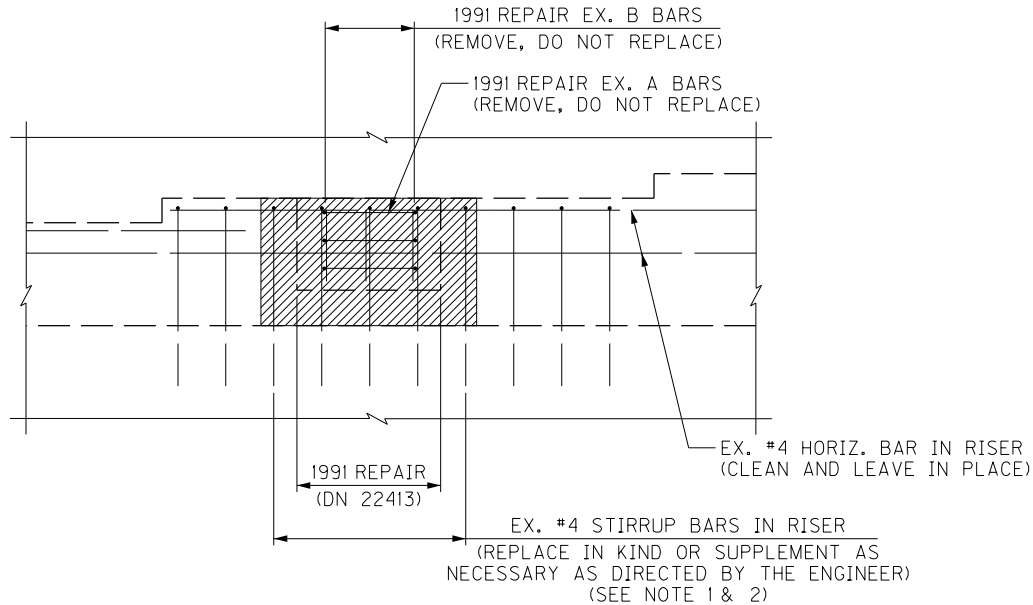
| EB 101W GIRDER E LOAD TABLE |                               |                                 |                                    |
|-----------------------------|-------------------------------|---------------------------------|------------------------------------|
| DL<br>DEAD<br>LOAD<br>(KIP) | LL+I<br>LIVE<br>LOAD<br>(KIP) | 1.25 DL +<br>1.35 LL+I<br>(KIP) | MIN.<br>JACK<br>CAPACITY<br>(TONS) |
| 50                          | 170                           | 292                             | 300                                |

**BRIDGE - B142**

| ITEM NUMBER | PREPARED BY  | SHEET NO.                                 |
|-------------|--|---|
| 5-10016     | <b>Michael Baker</b><br>INTERNATIONAL<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | <b>S20</b><br>DRAWING NO.<br><b>28870</b> |



FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
v10.17.01.58  
MicroStation



DETAIL 2 - CONCRETE REPAIR

GIRDER, BEARING AND BERM NOT SHOWN FOR CLARITY

CONCRETE REPAIRS AT GIRDER E

THIS WORK CONSISTS OF REMOVING, REPLACING THE DETERIORATED CONCRETE CONDITIONS SUPPORTING THE GIRDER, AND REMOVING, REPLACING THE BEARING ANCHOR BOLTS; AND REQUIRES REMOVING DEAD LOAD AND LIVE LOAD FROM THE BEARING TO PERFORM THE REPAIR OPERATIONS.

PERFORM THIS WORK IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE PATCHING REPAIR, AND WITH SPECIAL NOTE FOR JACKING AND SUPPORTING BRIDGE SPAN (SEE NOTE 3). CLASS AA CONCRETE SHALL BE USED FOR REPAIR AT GIRDER E.

DETERIORATION UNDER THE BEARING IS EXTENSIVE, WITH POSSIBLE LOSS OF SUPPORT AND/OR SETTLEMENT. PROVIDE JACKING AND/OR SUPPORT AS NECESSARY TO SET AND HOLD GIRDER E AT THE EXISTING BEARING SEAT ELEVATION WHILE CONCRETE REPAIRS ARE COMPLETED.

THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE LIFTING AND SUPPORTING PROCEDURES NECESSARY FOR SAFE AND PROPER EXECUTION OF THE WORK. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO JACK, BLOCK, AND SUPPORT THE GIRDER TO COMPLETE THE CONCRETE WORK. LEAVE THE GIRDER SUPPORT IN PLACE UNTIL THE CONCRETE IS PROPERLY CURED.

SUBMIT A WRITTEN PROCEDURE TO REMOVE THE CONCRETE PRIOR TO STARTING WORK. PAY PARTICULAR ATTENTION TO CONCRETE REMOVAL BELOW THE MASONRY PLATE AS WELL AS REMOVING, REPLACING THE ANCHOR BOLTS. CARE MUST BE TAKEN NOT TO DAMAGE THE STEEL BEARING AND ITS WELD CONNECTION TO THE GIRDER BOTTOM FLANGE.

REMOVE UNSOUND CONCRETE FROM THE DAMAGE AREA OF THE BRIDGE SEATS, EXTENDING THE LIMITS OF THE DAMAGED AREA UNTIL SOLID CONCRETE IS ENCOUNTERED. ENSURE, IN THE PRESENCE OF THE ENGINEER, THAT ALL CONCRETE SURROUNDING THE REMOVAL LIMITS IS SOUND. BASED ON RESULTS OF HAMMER SOUNDINGS, THE REMOVABLE LIMITS MAY BE INCREASED AS DETERMINED BY THE ENGINEER.

PROVIDE A 1-INCH DEEP SAW CUT AROUND THE PERIMETER OF THE DAMAGED AREA TO SQUARE UP THE REMOVAL AREA AND ELIMINATE FEATHERED EDGES. UNDERCUT THE EDGE OF DEEP REMOVALS TO HELP RETAIN THE NEW CONCRETE.

CLEAN STEEL REINFORCEMENT WITH MECHANICAL WIRE-BRUSHING OR BY SANDBLASTING TO REMOVE SCALE, RUST, GREASE, OIL AND OTHER MATERIAL THAT WOULD PREVENT ADHESION OF THE CONCRETE. CHECK THE CONCRETE AFTER CLEANING TO ENSURE THAT THE SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE AND ENSURE THAT ADDITIONAL DELAMINATION IS NOT PRESENT.

CUT AND REMOVE CORRODED REINFORCING STEEL THAT HAS LOST MORE THAN 20 PERCENT OF THEIR DIAMETER. REPLACE DAMAGED REINFORCING STEEL WITH NEW BARS OF THE SAME DIAMETER BY MECHANICAL SPLICE TO THE EXISTING STEEL.

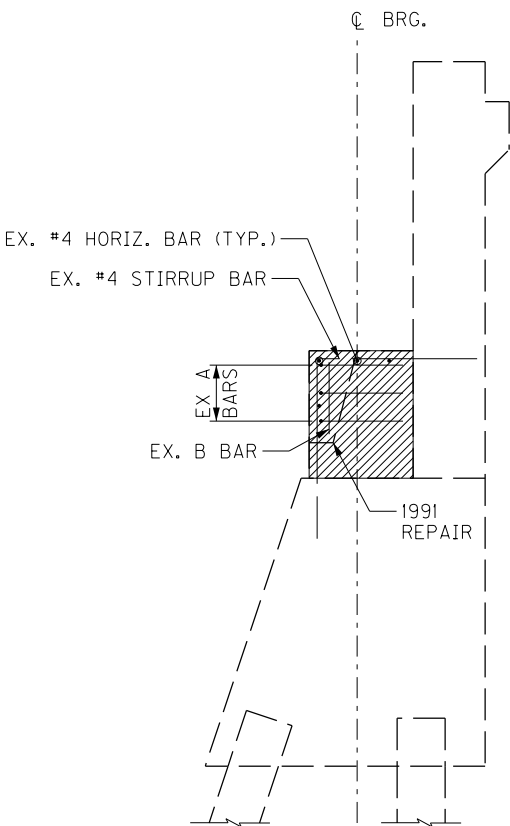
NEW STEEL REINFORCEMENT AT GIRDER E WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE REPAIR - END BENT 101W AT GIRDER E".

REMOVE THE EXISTING ANCHOR BOLTS. INSTALL NEW GALVANIZED ANCHOR BOLTS OF THE SAME SIZE AND SHAPE. CLEAN AND RESET THE BEARING AS NECESSARY PRIOR TO PLACING THE NEW CONCRETE. WHEN APPLICABLE, INSTALL NEW ANCHOR BOLTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS FOR ADHESIVE ANCHORS.

PAYMENT FOR TEMPORARY SUPPORT SHALL BE IN ACCORDANCE WITH THE SPECIAL NOTE APPLICABLE TO THIS WORK.

ANCHOR BOLT REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM "CONCRETE REPAIR - END BENT 101W AT GIRDER E".

PAYMENT FOR "CONCRETE REPAIR - END BENT 101W AT GIRDER E" SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS TO COMPLETE THE WORK.



SECTION C-C

GIRDER, BEARING AND BERM NOT SHOWN FOR CLARITY

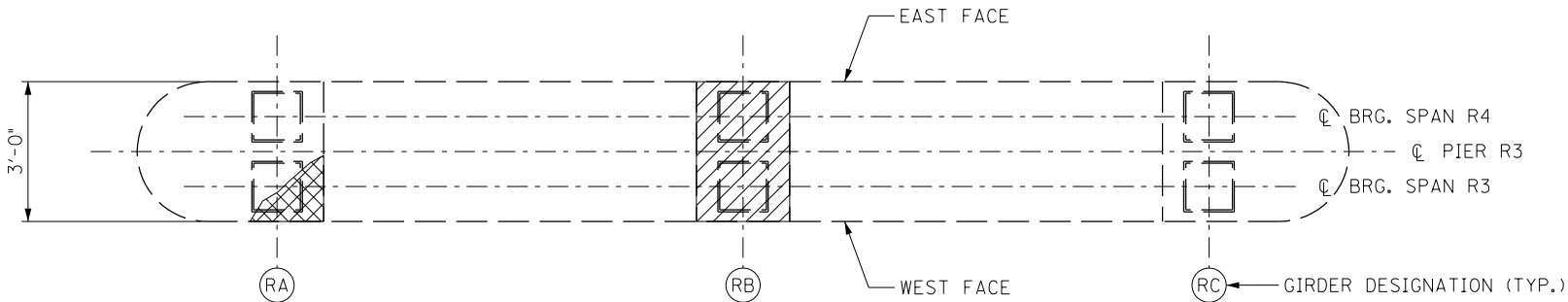
NOTES

- FOR CONCRETE REPAIR AT GIRDER E ORIGINAL REINFORCING STEEL, SEE DN 15754 SHEETS 41 AND 42.
- MECHANICAL SPLICE DAMAGED STIRRUP BARS TO EXISTING BARS OR DOWEL NEW STIRRUP BARS INTO EXISTING BACKWALL AND EXISTING PILE CAP.
- DESIGN OF THE TEMPORARY SUPPORT SHALL BE BASED ON 95 KIPS VERTICAL GIRDER LOAD.

BRIDGE - B142

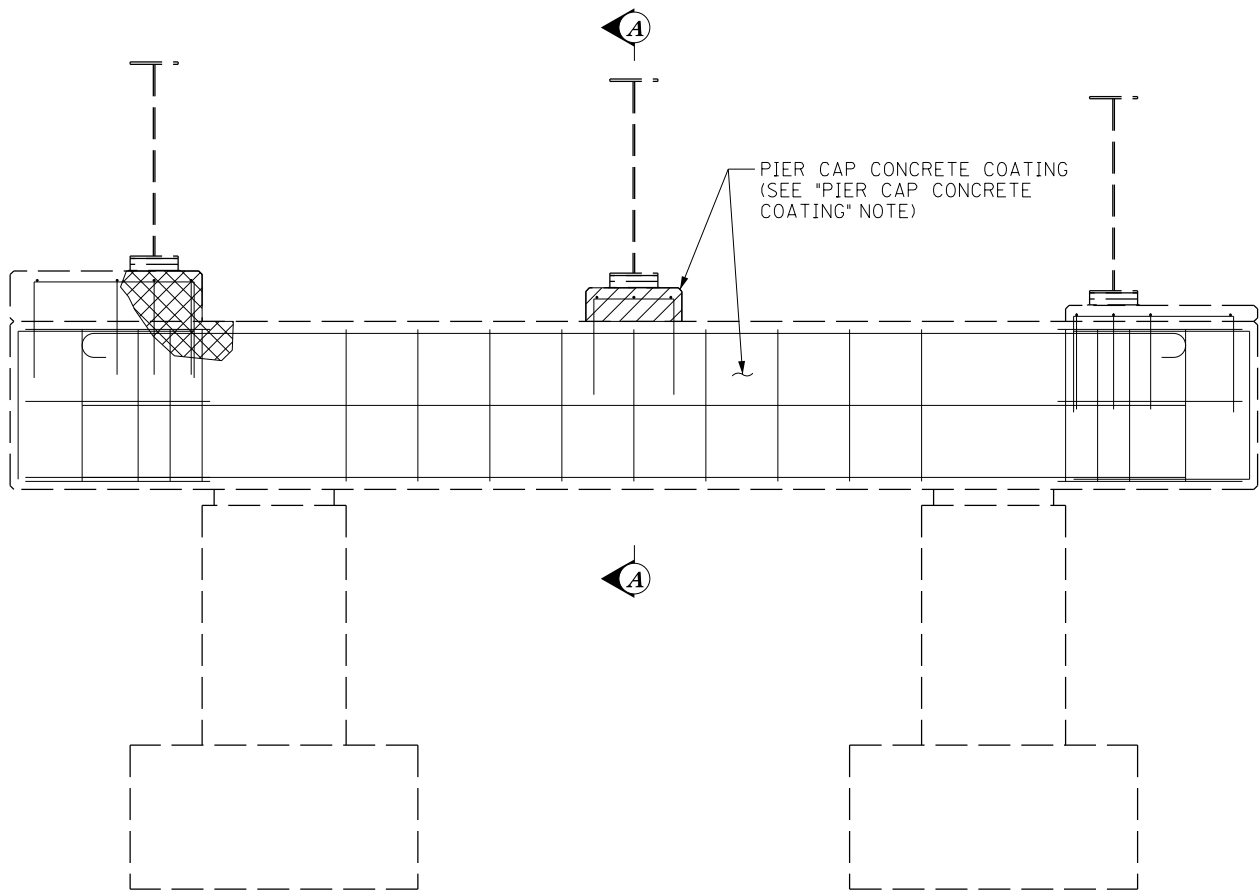
| ITEM NUMBER | PREPARED BY  | SHEET NO.                                 |
|-------------|--|---|
| 5-10016     | <b>Michael Baker</b><br>INTERNATIONAL<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | <b>S21</b><br>DRAWING NO.<br><b>28870</b> |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



### PLAN

GIRDERS NOT SHOWN FOR CLARITY



### ELEVATION

LOOKING AT WEST FACE

### NOTES

- FOR DETAIL 1 AND SECTION A-A, SEE SHEET NO. S23.
- FOR RAMP A GIRDER DETAILS, SEE DN 17123.
- CONCRETE REPAIR AT GIRDER RB PEDESTAL, CONCRETE PATCHING AT REMAINING LOCATIONS, U.N.O.

### PIER R3 REPAIRS

THIS WORK CONSISTS OF CONCRETE PATCHING, AND REMOVING, REPLACING CONCRETE PORTIONS OF THE BRIDGE SEAT AND PIER CAP AS SHOWN ON THE PLANS. THE WORK INCLUDES CLEANING THE EXISTING STEEL BEARINGS, AND CLEANING AND COATING THE CONCRETE PIER CAP.

### PIER CAP CONCRETE COATING

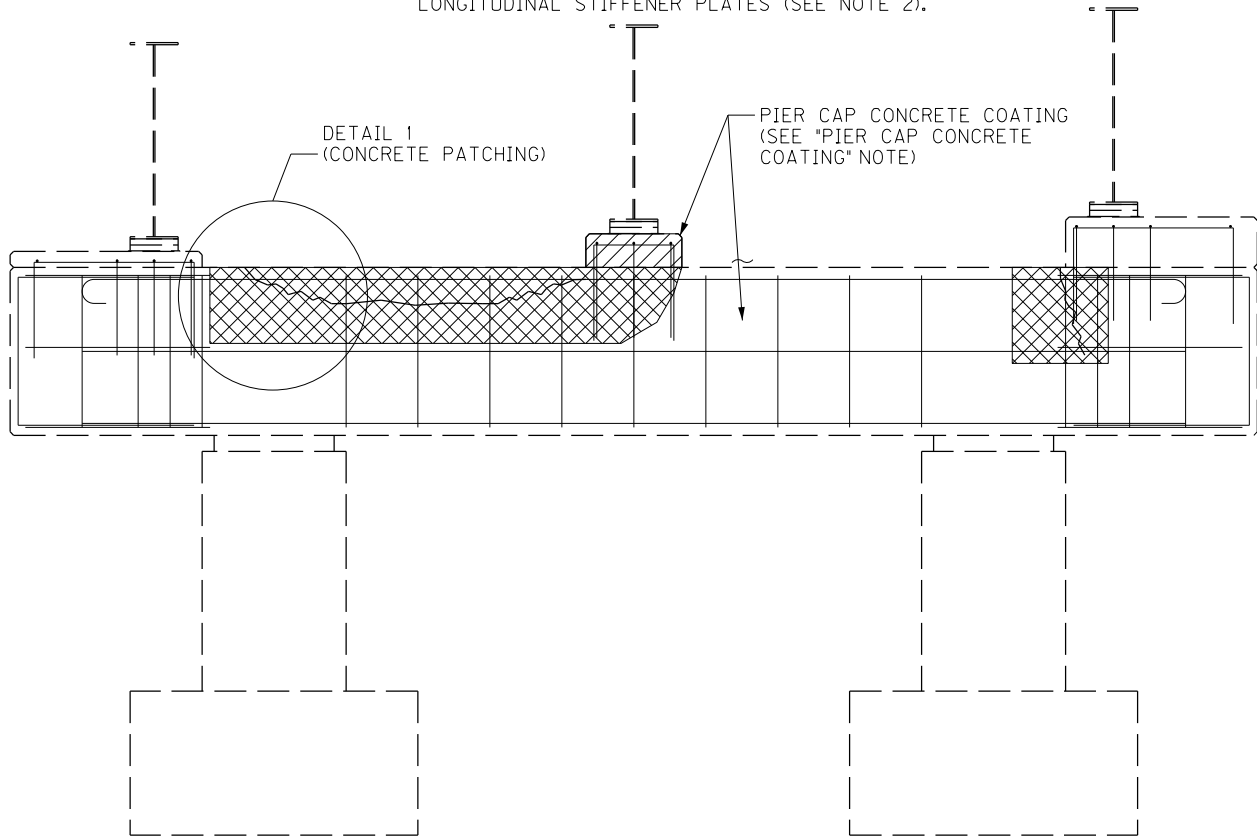
THIS WORK CONSISTS OF APPLICABLE REPAIRS AND SURFACE PREPARATION TO APPLY CONCRETE COATING TO THE CONCRETE PIER CAP HORIZONTAL AND VERTICAL SURFACES. REPAIR THE AREAS OF DETERIORATED CONCRETE AND CRACKS SHOWN AND/OR THOSE DIRECTED BY THE ENGINEER. PERFORM THIS WORK IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE COATING.

CONCRETE COATING APPLIED TO THE TOPS AND FACES OF THE PEDESTALS AND PIER CAPS FOR THE ENTIRE LENGTH OF THE PIER AT THE LIMITS SHOWN.

PAYMENT FOR THIS WORK IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE COATING.

### JACKING NOTES

- RAMP A WILL BE CLOSED DURING A FULL WEEKEND CLOSURE TO PLACE THE NEW CONCRETE AT GIRDERS RA AND RB. AHEAD OF THE WEEKEND CLOSURE, THE CONTRACTOR MAY INSTALL THE TEMPORARY SUPPORT TO CONDUCT DEMOLITION AND PREPARATION ACTIVITIES PRIOR TO PLACING CONCRETE, AS APPROVED BY THE ENGINEER.
- SHIFT TRAFFIC ON RAMP A ABOVE GIRDER RA AND RB BEARINGS TO THE OPPOSITE HALF OF THE BRIDGE DECK. THIS TRAFFIC SHIFT WILL ALLOW WORK ON GIRDER RA BEARINGS TO BE PERFORMED UNDER DEAD LOAD ONLY. WORK ON GIRDER RB BEARINGS MUST BE PERFORMED UNDER TRAFFIC LIVE LOADS.
- DESIGN OF GIRDER RA TEMPORARY SUPPORT UNDER DEAD LOAD (REQUIRING A TRAFFIC SHIFT) SHALL BE BASED ON 40 KIPS EACH BEARING VERTICAL LOAD.
- DESIGN OF GIRDER RB TEMPORARY SUPPORT UNDER DEAD LOAD (REQUIRING A FULL RAMP CLOSURE) SHALL BE BASED ON 45 KIPS EACH BEARING VERTICAL LOAD.
- DESIGN OF GIRDER RB TEMPORARY SUPPORT UNDER DEAD AND LIVE LOADS (REQUIRING A TRAFFIC SHIFT) SHALL BE BASED ON 100 KIPS EACH BEARING VERTICAL LOAD.
- NEW JACKING STIFFENERS, IF REQUIRED, SHALL BE STEEL ANGLES BOLTED TO BOTH SIDES OF THE GIRDER WEB. APPLICABLE EXISTING TRANSVERSE WEB STIFFENERS MAY BE USED AS JACKING STIFFENERS.
- MODIFY GIRDER RA SINGLE SIDED STIFFENERS USING STEEL ANGLES BOLTED TO THE OUTSIDE FACE OF THE WEB. PROVIDE TIGHT FIT WHERE ANGLE INTERSECTS FLANGE PLATES AND LONGITUDINAL STIFFENER PLATES (SEE NOTE 2).



### ELEVATION

LOOKING AT EAST FACE

### LEGEND

- APPROX. CONCRETE SPALL OR CRACK LIMITS
- GIRDER RB CONCRETE REMOVAL LIMITS

### BRIDGE – B281

| ITEM NUMBER |
|-------------|
| 5-10016     |

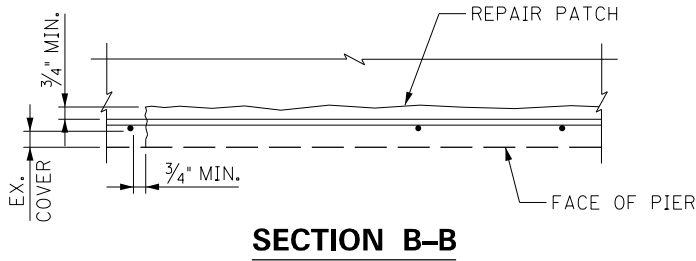
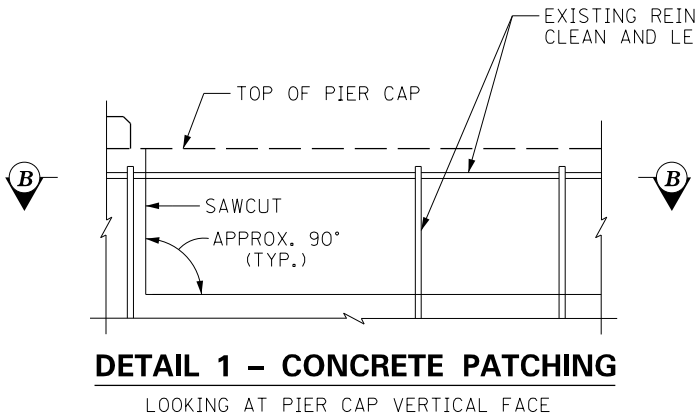
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| REVISION  |   | DATE                                     |
| DATE: AUGUST 2025   | CHECKED BY                                |  |
| DESIGNED BY: D BARON  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   | D BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |  |
| COUNTY<br>JEFFERSON   |   |  |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| PIER R3 RETROFIT – 1  |   |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |   | SHEET NO.<br>S22<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   |  |

FILE NAME: C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER\MBAKERINTL.COM

USER: MaryJo.Dwyer DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

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### CONCRETE REPAIRS AT GIRDERS RA AND RB

THIS WORK CONSISTS OF REMOVING AND REPLACING THE DETERIORATED CONCRETE CONDITIONS SUPPORTING THE GIRDER, AND REQUIRES REMOVING DEAD LOAD AND LIVE LOAD FROM THE BEARING TO PERFORM THE REPAIR OPERATIONS.

PERFORM THIS WORK IN ACCORDANCE WITH THE SPECIAL NOTE FOR CONCRETE PATCHING REPAIR, AND WITH SPECIAL NOTE FOR JACKING AND SUPPORTING BRIDGE SPAN (SEE JACKING NOTES ON SHEET NO. S20A). CLASS AA CONCRETE SHALL BE USED FOR REPAIR AT GIRDERS RA AND RB.

DETERIORATION UNDER THE BEARING IS EXTENSIVE, WITH POSSIBLE LOSS OF SUPPORT AND/OR SETTLEMENT. PROVIDE JACKING AND/OR SUPPORT AS NECESSARY TO SET AND HOLD GIRDERS RA AND RB AT THE EXISTING BEARING SEAT ELEVATION WHILE CONCRETE REPAIRS ARE COMPLETED.

THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE DESIGN OF THE LIFTING AND SUPPORTING PROCEDURES NECESSARY FOR SAFE AND PROPER EXECUTION OF THE WORK. PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS NECESSARY TO JACK, BLOCK, AND SUPPORT THE GIRDER TO COMPLETE THE CONCRETE WORK. LEAVE THE GIRDER SUPPORT IN PLACE UNTIL THE CONCRETE IS PROPERLY CURED.

SUBMIT A WRITTEN PROCEDURE TO REMOVE THE CONCRETE PRIOR TO STARTING WORK. PAY PARTICULAR ATTENTION TO CONCRETE REMOVAL BELOW THE MASONRY PLATE. CARE MUST BE TAKEN NOT TO DAMAGE THE ANCHOR BOLTS, STEEL BEARING AND ITS WELD CONNECTION TO THE GIRDER BOTTOM FLANGE.

REMOVE UNSOUND CONCRETE FROM THE DAMAGE AREA OF THE BRIDGE SEATS, EXTENDING THE LIMITS OF THE DAMAGED AREA UNTIL SOLID CONCRETE IS ENCOUNTERED. ENSURE, IN THE PRESENCE OF THE ENGINEER, THAT ALL CONCRETE SURROUNDING THE REMOVAL LIMITS IS SOUND. BASED ON RESULTS OF HAMMER SOUNDINGS, THE REMOVABLE LIMITS MAY BE INCREASED AS DETERMINED BY THE ENGINEER.

PROVIDE A 1-INCH DEEP SAW CUT AROUND THE PERIMETER OF THE DAMAGED AREA TO SQUARE UP THE REMOVAL AREA AND ELIMINATE FEATHERED EDGES. UNDERCUT THE EDGE OF DEEP REMOVALS TO HELP RETAIN THE NEW CONCRETE.

CLEAN STEEL REINFORCEMENT WITH MECHANICAL WIRE-BRUSHING OR BY SANDBLASTING TO REMOVE SCALE, RUST, GREASE, OIL AND OTHER MATERIAL THAT WOULD PREVENT ADHESION OF THE CONCRETE. CHECK THE CONCRETE AFTER CLEANING TO ENSURE THAT THE SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE AND ENSURE THAT ADDITIONAL DELAMINATION IS NOT PRESENT.

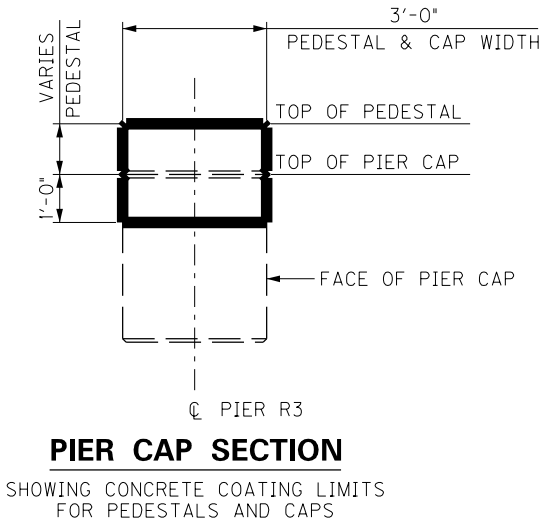
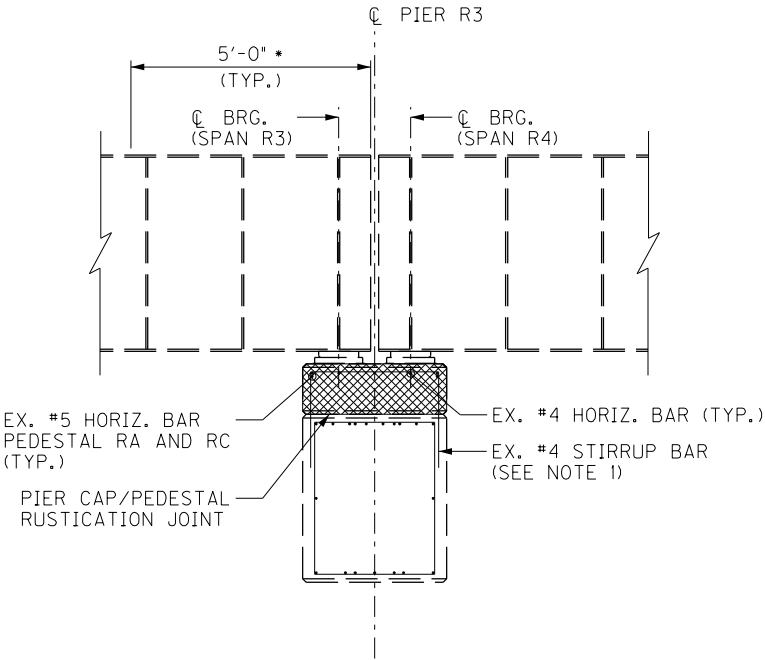
CUT AND REMOVE CORRODED REINFORCING STEEL THAT HAS LOST MORE THAN 20 PERCENT OF THEIR DIAMETER. REPLACE DAMAGED REINFORCING STEEL WITH NEW BARS OF THE SAME DIAMETER BY MECHANICAL SPLICE TO THE EXISTING STEEL. AS AN ALTERNATE TO THE MECHANICAL SPLICE, CONTRACTOR MAY CHOOSE TO DRILL AND ANCHOR NEW REINFORCING STEEL USING AN APPROVED ADHESIVE (SEE NOTE 1).

NEW STEEL REINFORCEMENT AT GIRDERS RA AND RB WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCIDENTAL TO "CONCRETE REPAIR - PIER R3 AT GIRDER RB".

EXISTING ANCHOR BOLTS TO REMAIN. IF EXISTING ANCHOR BOLTS ARE DAMAGED DURING THE CONTRACTOR'S OPERATIONS, ANCHOR BOLTS TO BE REPLACED WITH GALVANIZED ANCHOR BOLTS OF THE SAME SIZE AND SHAPE AT NO ADDITIONAL EXPENSE TO THE CABINET.

PAYMENT FOR TEMPORARY SUPPORT SHALL BE IN ACCORDANCE WITH THE SPECIAL NOTE APPLICABLE TO THIS WORK.

PAYMENT FOR "CONCRETE REPAIR - PIER R3 AT GIRDER RB" SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS TO COMPLETE THE WORK.



### LEGEND

 GIRDER RB CONCRETE REMOVAL LIMITS

### NOTES

1. REPLACE IN KIND OR SUPPLEMENT AS NECESSARY AS DIRECTED BY THE ENGINEER. MECHANICAL SPLICE DAMAGED STIRRUP BARS TO EXISTING BARS OR DOWEL NEW STIRRUP BARS INTO EXISTING PIER CAP.
2. FOR EXISTING BEARING AND ANCHOR BOLT DETAILS, SEE DN 17123.
3. FOR PIER CAP/PEDESTAL RUSTICATION JOINT, SEE DN 17123.



**GIRDER RA PEDESTAL AT PIER R3**



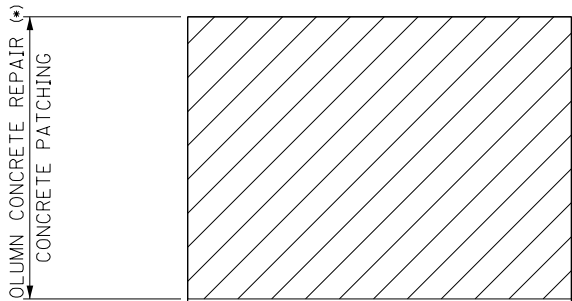
**GIRDER RB PEDESTAL AT PIER R3**

### BRIDGE – B281

| ITEM NUMBER | PREPARED BY  | SHEET NO.                                 |
|-------------|--|---|
| 5-10016     | <b>Michael Baker</b><br>INTERNATIONAL<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com | <b>S23</b><br>DRAWING NO.<br><b>28870</b> |

LEGEND

 COLUMN CONCRETE REPAIR



(\*) THE CONCRETE DETERIORATION IS USUALLY WITHIN THE TOP 5 FEET OF THE COLUMN, HOWEVER, A FEW COLUMNS HAVE LARGE SCALE SEVERE DETERIORATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING A SITE VISIT TO BECOME FAMILIAR WITH THE WORK (SEE GENERAL NOTE).

THE ESTIMATED SQUARE FOOTAGE OF CONCRETE PATCHING MAY INCREASE OR DECREASE BASED ON THE COMPLETED AND ACCEPTED QUANTITIES.

THE CONCRETE PATCHING AREA COVERS REMOVAL AND SURFACE RESTORATION COLUMN CONCRETE REPAIRS.

| 3RD TO PRESTON STREET<br>COLUMN RETROFIT |              |       |                     |
|--|--------------|-------|---------------------|
| PIER                                     | COLUMN       | D     | AREA(*)<br>(SQ.FT.) |
| RB3                                      | NORTH        | 4'-0" | 10                  |
| RB3                                      | SOUTH        | 4'-0" | 130                 |
| RB7                                      | SOUTH        | 3'-6" | 10                  |
| 112                                      | MIDDLE       | 4'-6" | 5                   |
| 112                                      | SOUTH        | 4'-0" | 10                  |
| 113                                      | MIDDLE       | 4'-6" | 10                  |
| 119                                      | NORTH        | 4'-0" | 10                  |
| 119                                      | SOUTH        | 4'-0" | 10                  |
| 125A                                     | -            | 4'-0" | 5                   |
| 128E                                     | SOUTH        | 4'-0" | 5                   |
| 131E                                     | NORTH        | 4'-0" | 20                  |
| 131E                                     | SOUTH MIDDLE | 4'-0" | 15                  |

| 17TH TO 13TH STREET<br>COLUMN RETROFIT |        |       |                     |
|--|--------|-------|---------------------|
| PIER                                   | COLUMN | D     | AREA(*)<br>(SQ.FT.) |
| 7                                      | MIDDLE | 4'-6" | 10                  |
| 10W                                    | NORTH  | 4'-6" | 20                  |
| 10W                                    | SOUTH  | 4'-6" | 25                  |
| 14W                                    | NORTH  | 4'-6" | 10                  |
| 14W                                    | SOUTH  | 4'-6" | 20                  |
| 17E                                    | NORTH  | 4'-6" | 40                  |
| 17E                                    | SOUTH  | 4'-6" | 20                  |
| 17W                                    | SOUTH  | 4'-6" | 20                  |
| 21E                                    | NORTH  | 4'-6" | 15                  |
| 21E                                    | SOUTH  | 4'-6" | 40                  |
| 21W                                    | SOUTH  | 4'-6" | 10                  |

| 9TH STREET RAMP 1<br>COLUMN RETROFIT |                |       |                     |
|--------------------------------------|----------------|-------|---------------------|
| PIER                                 | COLUMN         | D     | AREA(*)<br>(SQ.FT.) |
| R1-1                                 | EAST           | 3'-6" | 20                  |
| R1-2                                 | WESTERN MIDDLE | 3'-6" | 20                  |
| R1-3                                 | -              | 5'-6" | 30                  |
| R1-6                                 | -              | 5'-6" | 85                  |
| R1-8                                 | -              | 6'-6" | 30                  |
| R1-17                                | NORTH          | 5'-0" | 10                  |

| 9TH STREET RAMP 2<br>COLUMN RETROFIT |                 |       |                     |
|--------------------------------------|-----------------|-------|---------------------|
| PIER                                 | COLUMN          | D     | AREA(*)<br>(SQ.FT.) |
| 45E                                  | SOUTHERN MIDDLE | 5'-0" | 65                  |

| 9TH STREET RAMP 2A<br>COLUMN RETROFIT |        |       |                     |
|---------------------------------------|--------|-------|---------------------|
| PIER                                  | COLUMN | D     | AREA(*)<br>(SQ.FT.) |
| R2A-1                                 | -      | 5'-6" | 15                  |

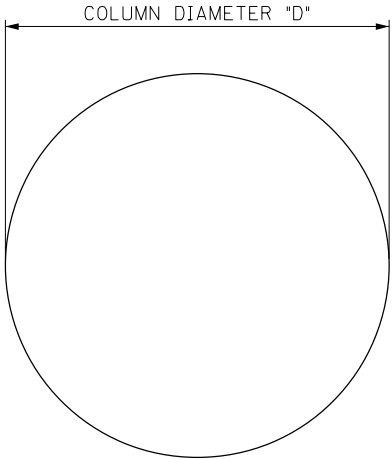
| 9TH STREET RAMP 3<br>COLUMN RETROFIT |         |         |                     |
|--------------------------------------|---------|---------|---------------------|
| PIER                                 | COLUMN  | D       | AREA(*)<br>(SQ.FT.) |
| R3-1                                 | SOUTH   | 5'-0"   | 10                  |
| R3-6                                 | CATCHER | 2' x 6' | 5                   |

| 9TH STREET RAMP 4<br>COLUMN RETROFIT |                 |       |                     |
|--------------------------------------|-----------------|-------|---------------------|
| PIER                                 | COLUMN          | D     | AREA(*)<br>(SQ.FT.) |
| R4-7                                 | -               | 6'-6" | 50                  |
| R4-13                                | -               | 6'-6" | 30                  |
| 47W                                  | NORTH           | 5'-0" | 15                  |
| 47W                                  | NORTHERN MIDDLE | 5'-0" | 30                  |

| 13TH TO 7TH STREET<br>COLUMN RETROFIT |                 |       |                     |
|---------------------------------------|-----------------|-------|---------------------|
| PIER                                  | COLUMN          | D     | AREA(*)<br>(SQ.FT.) |
| 25W                                   | NORTH           | 4'-6" | 5                   |
| 28E                                   | NORTH           | 4'-6" | 50                  |
| 28E                                   | SOUTH           | 4'-6" | 10                  |
| 33E                                   | NORTH           | 4'-0" | 20                  |
| 33E                                   | SOUTH           | 4'-0" | 20                  |
| 34W                                   | NORTH           | 5'-0" | 40                  |
| 34W                                   | SOUTH           | 5'-0" | 5                   |
| 36E                                   | NORTH           | 4'-0" | 10                  |
| 37W                                   | NORTH           | 5'-0" | 5                   |
| 39E                                   | SOUTH           | 5'-0" | 6                   |
| 40W                                   | NORTH           | 4'-0" | 5                   |
| 41W                                   | NORTH CATCHER   | 2'-6" | 5                   |
| 44W                                   | NORTH           | 4'-0" | 15                  |
| 45E                                   | NORTH           | 5'-0" | 5                   |
| 45E                                   | NORTHERN MIDDLE | 5'-0" | 70                  |
| 47W                                   | SOUTHERN MIDDLE | 5'-0" | 20                  |
| 47W                                   | SOUTH           | 5'-0" | 5                   |
| 55E                                   | NORTH           | 4'-0" | 25                  |
| 55E                                   | SOUTH           | 4'-0" | 45                  |

| 7TH TO 2ND STREET<br>COLUMN RETROFIT |        |       |                     |
|--------------------------------------|--------|-------|---------------------|
| PIER                                 | COLUMN | D     | AREA(*)<br>(SQ.FT.) |
| 58                                   | SOUTH  | 4'-0" | 10                  |
| 60                                   | MIDDLE | 4'-6" | 5                   |
| 64                                   | NORTH  | 4'-0" | 5                   |
| 64                                   | SOUTH  | 4'-0" | 5                   |
| 73                                   | SOUTH  | 5'-6" | 5                   |
| 77                                   | NORTH  | 4'-6" | 5                   |
| 83                                   | SOUTH  | 4'-0" | 5                   |

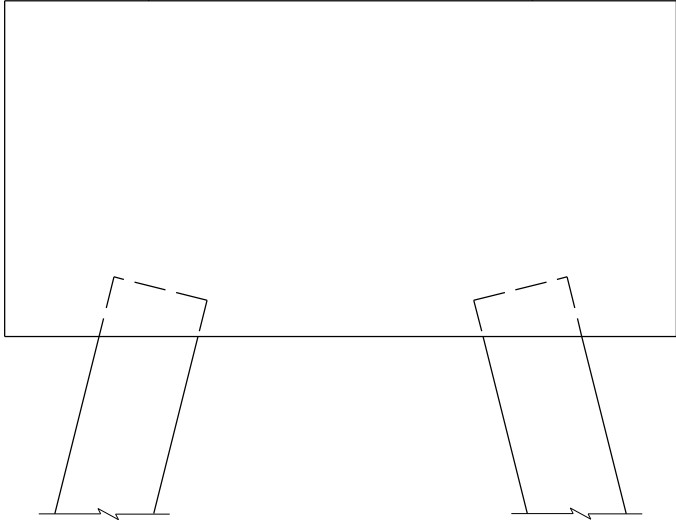
| NW PKWY & 22ND ST<br>COLUMN RETROFIT |        |       |                     |
|--------------------------------------|--------|-------|---------------------|
| PIER                                 | COLUMN | D     | AREA(*)<br>(SQ.FT.) |
| R3                                   | EAST   | 3'-0" | 10                  |



SECTION A-A

COLUMN CONCRETE REPAIR

- REPAIR DELAMINATED OR SPALLED AREAS OF COLUMN AS APPLICABLE IN ACCORDANCE WITH SPECIAL NOTE FOR CONCRETE PATCHING REPAIR.
- COORDINATE THE DOWNSPOUT REMOVAL AND/OR REPLACEMENT WITH THE PIER COLUMN CONCRETE REPAIR WORK.
- SOUND THE COLUMN AND MARK THE LIMITS OF DELAMINATED AREAS FOR REPAIR WORK IN THE PRESENCE OF THE ENGINEER. SQUARE OFF IRREGULAR SHAPES TO HELP MAKE A MORE DURABLE REPAIR. MAKE 1-INCH SAWCUTS IN THE SOUND CONCRETE ALONG THE PERIMETER OF THE REPAIR AREA. UNDERCUT THE EDGE OF A CUT-OUT AREA IF NECESSARY TO RETAIN THE NEW MATERIAL.
- DO NOT DAMAGE AREAS OF SOUND CONCRETE OR REINFORCING STEEL. PROTECT EXISTING REINFORCING STEEL ENCOUNTERED DURING CONCRETE REMOVAL. REMOVE RUST AND OTHER HARMFUL MATERIALS FROM ALL CORRODED STEEL EXPOSED. REMOVE AND REPLACE REINFORCING STEEL SHOWING DEEP PITTING OR LOSS OF MORE THAN 20 PERCENT OF CROSS SECTIONAL AREA. MATCH THE SIZE OF THE NEW REINFORCING STEEL BAR TO THE EXISTING STEEL BAR.



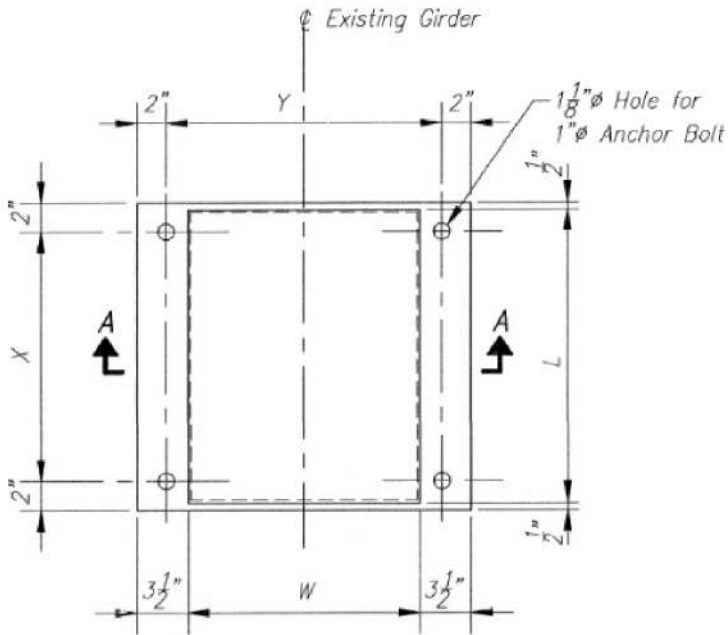
COLUMN ELEVATION

| ITEM NUMBER |
|-------------|
| 5-10016     |

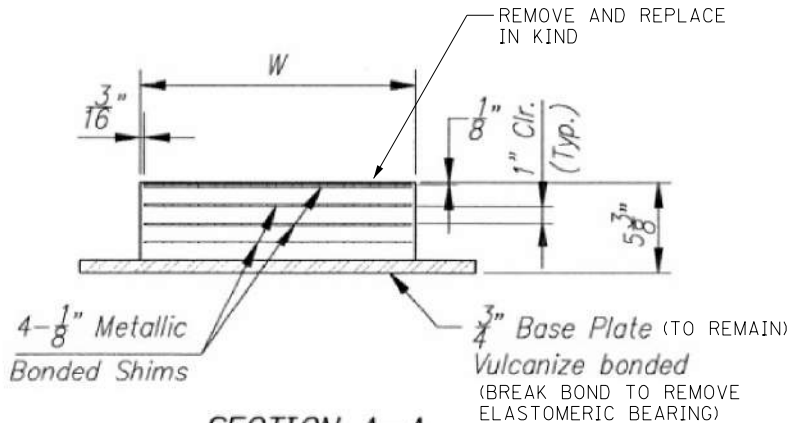
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|  |   |  |
| REVISION   |   | DATE                                     |
| DATE: AUGUST 2025                                  |   | CHECKED BY                               |
| DESIGNED BY: MJ DWYER                              |   | L CLARK                                  |
| DETAILED BY: MJ DWYER                              |   | L CLARK                                  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |   |  |
| COUNTY<br>JEFFERSON                                |   |  |
| ROUTE<br>I-64                                      | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| PIER COLUMN CONCRETE REPAIR                        |   |  |
| PREPARED BY<br>Michael Baker INTERNATIONAL         |   | SHEET NO.<br>S24<br>DRAWING NO.<br>28870 |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM\DWG  
USER: MaryJo.Dwyer  
DATE PLOTTED: January 19, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58

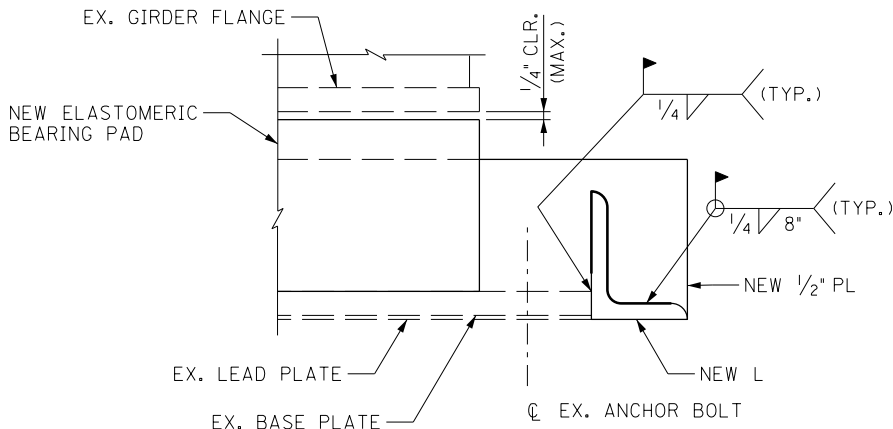
DETAILS FROM DN 23481 - PIN & HANGER RETROFIT PLANS, SHEET 15.  
TYPE 2 BEARING PAD REPLACEMENT SHALL BE IN KIND, UNBONDED.



TYPES 1, 2 & 3



SECTION A-A



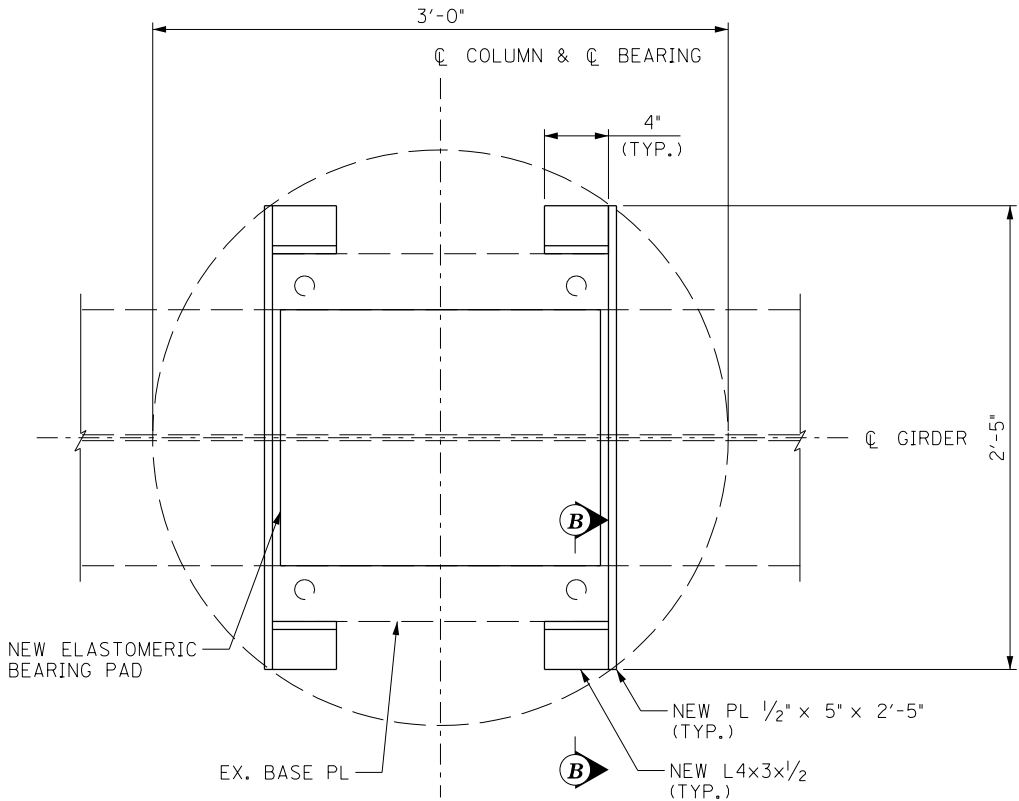
SECTION B-B

| DIMENSIONS FOR ELASTOMERIC BEARING PADS |       |         |                           |       |        |           |             |
|---|-------|---------|---------------------------|-------|--------|-----------|-------------|
| Pad                                     | L     | W       | Base Plate                | X     | Y      | Z         | No. Req.'d. |
| TYPE 1                                  | 1'-6" | 1'-8"   | 3/4" x 19" x 2'-3"        | 1'-3" | 1'-11" | -         | 8           |
| TYPE 2                                  | 1'-8" | 1'-4"   | 3/4" x 21" x 1'-11"       | 1'-5" | 1'-7"  | -         | 32 1        |
| TYPE 3                                  | 2'-0" | 1'-4"   | 3/4" x 25" x 1'-11"       | 1'-9" | 1'-7"  | -         | 2           |
| TYPE 4                                  | 2'-0" | 1'-2"   | 3/4" x 25" x 1'-9" (clip) | 1'-9" | 1'-5"  | 1'-4 1/2" | 8           |
| TYPE 5                                  | 2'-0" | 1'-2"   | 3/4" x 25" x 1'-9" (clip) | 1'-9" | 1'-5"  | 1'-4 1/2" | 8           |
| TYPE 6                                  | 1'-6" | 1'-2"   | 3/4" x 19" x 1'-9" (clip) | 1'-3" | 1'-5"  | 1'-0 1/2" | 2           |
| TYPE 7                                  | 1'-6" | 1'-2"   | 3/4" x 19" x 1'-9" (clip) | 1'-3" | 1'-5"  | 1'-0 1/2" | 2           |
| TYPE 8                                  | 2'-0" | 1'-2"   | 3/4" x 25" x 1'-9" (clip) | 1'-9" | 1'-5"  | 1'-0 1/2" | 4           |
| TYPE 9                                  | 2'-0" | 1'-2"   | 3/4" x 25" x 1'-9" (clip) | 1'-9" | 1'-5"  | 1'-0 1/2" | 4           |
| TYPE 10                                 | 3'-0" | 10 1/2" | 1/2" x 14 1/2" x 3'-4"    | -     | -      | -         | 24          |
| TYPE 11                                 | 3'-0" | 8"      | 1/2" x 12" x 3'-4"        | -     | -      | -         | 4           |

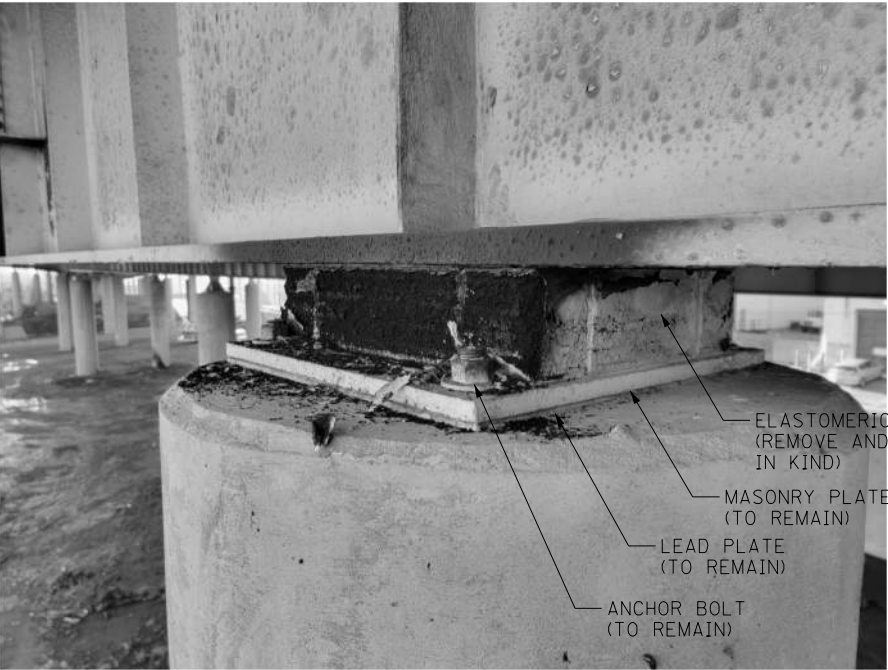
REPLACEMENT BEARING PAD SHALL HAVE A DUROMETER HARDNESS OF 50 IN ACCORDANCE WITH SECTION 822.01 OF THE STANDARD SPECIFICATIONS.

### BASE PLATE CLEAN AND PAINT

THOROUGHLY CLEAN AND PROPERLY PREPARE BASE PLATE FOR PRIMING. REMOVE ALL CONTAMINANTS THAT MIGHT PREVENT PAINT FROM ADHERING TIGHTLY TO THE UNDERLYING SURFACE. UTILIZE RECOMMENDATIONS AND SPECIAL INSTRUCTIONS PROVIDED FROM THE COATING MANUFACTURER FOR SURFACE PREPARATION OR COATING APPLICATION AND IN ACCORDANCE WITH SPECIAL NOTE FOR CLEAN AND PAINT STRUCTURAL STEEL REPAIRS.



PLAN OF COLUMN



### FIRE DAMAGE TO BEARING AT PIER 7 PIN AND HANGER SUPPORT COLUMN B

### ELASTOMERIC BEARING PAD REPLACEMENT SEQUENCE

THE FOLLOWING SEQUENCE MAY BE MODIFIED AS APPROVED BY THE ENGINEER.

1. REMOVE ELASTOMERIC BEARING PAD (SEE BASE PLATE CLEAN AND PAINT)
2. FIELD WELD ANGLE TABS TO CORNERS OF BASE PLATE BEFORE PRIME COAT APPLICATION
3. INSTALL NEW ELASTOMERIC BEARING PAD AFTER PRIME COAT APPLICATION
4. FIELD WELD 1/2" PLATE TO THE ANGLE TABS ALONG THE EAST AND WEST FACES OF THE BASE PLATE. APPLY NECESSARY PRIME COAT TOUCH UP.
5. FIELD APPLY THE INTERMEDIATE AND FINISH PAINT COATS TO THE EXPOSED AREA OF THE BASE PLATE
6. ENSURE GAP BETWEEN GIRDER BOTTOM FLANGE AND ELASTOMERIC BEARING PAD IS MAINTAINED PER ORIGINAL DETAIL IN DN 23481

### NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 (ASTM A709), GRADE 36 PRIMED AND COATED AT THE SHOP IN ACCORDANCE WITH SECTION 607.03.23 OF THE STANDARD SPECIFICATIONS. CONTRACTOR HAS THE OPTION TO REPLACE ASTM A709 GRADE 36 STEEL WITH ASTM A709 GRADE 50 AT NO ADDITIONAL COST TO THE DEPARTMENT.

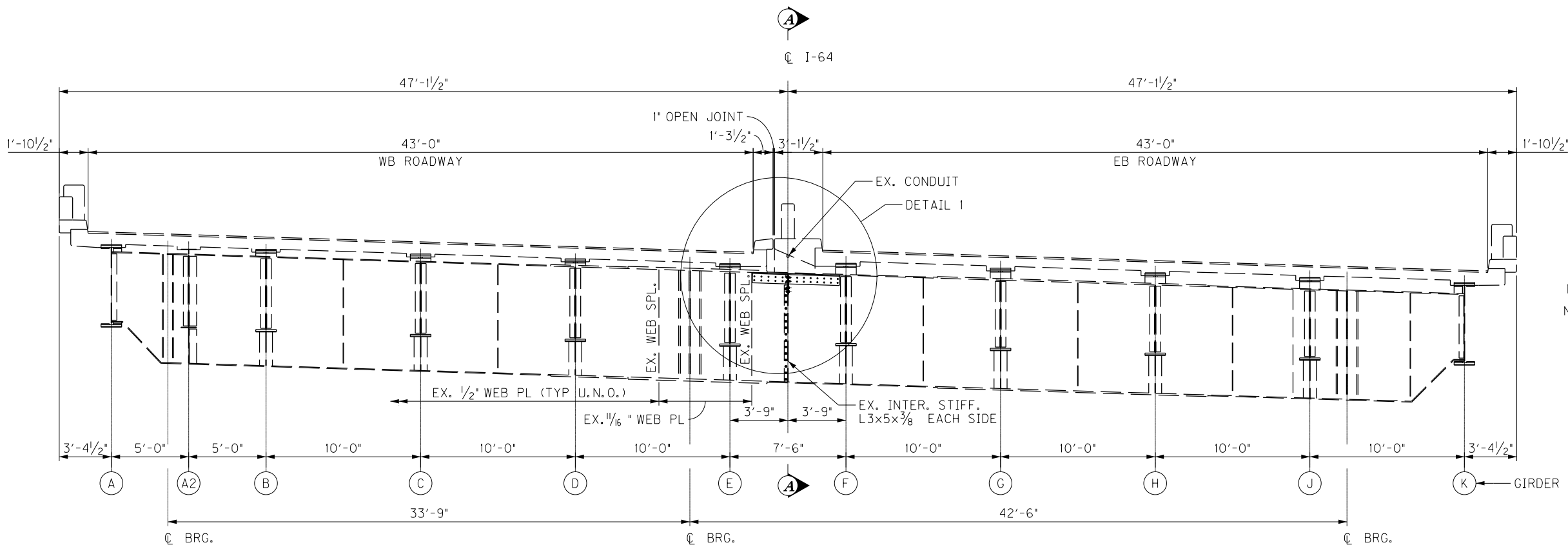
### BRIDGE – B285

ITEM NUMBER

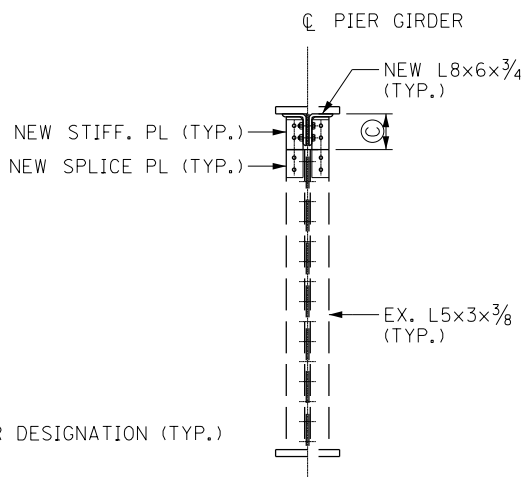
5-10016

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|   |   |                      |
|   |   |                      |
| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: MJ DWYER   | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| PIER 7 BRG PAD REPLACEMENT  |   |                      |
| PREPARED BY   |   | SHEET NO.<br>S25     |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



PIER GIRDER ELEVATION



SECTION A-A

NOTES

- FOR GENERAL NOTES, SEE SHEET NOS. S5 - S7.
- STRUCTURAL STEEL ANGLE MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS AT 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.

PIER GIRDER 110 RETROFIT PROCEDURE

SAWCUT TOP 9" OF EACH INTERMEDIATE STIFFENER ANGLE FOR REMOVAL. ENSURE THE CUTLINE PROFILE OF EACH LEG IS SQUARE AND LEVEL WITH THE OTHER.

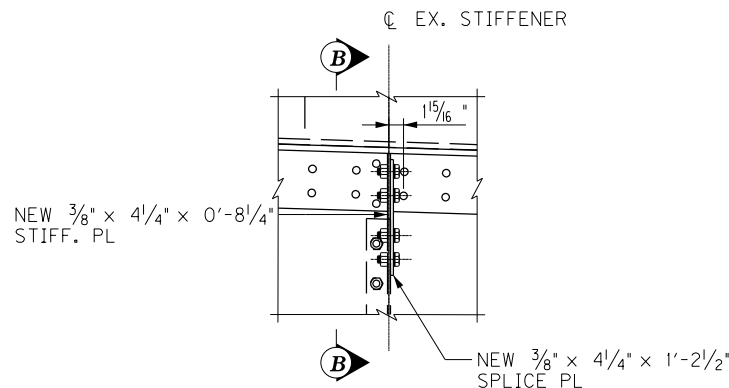
REMOVE PAINT AND CORROSION PRODUCT FROM RETROFIT AREA. PRIME AREA OF PIER GIRDER USING APPROVED CLEANING/PRIMING PROCEDURE/PRODUCTS.

PLACE ONE STEEL RETROFIT ANGLE AND CLAMP INTO FINAL POSITION. DRILL ALL 13/16 INCH DIAMETER BOLT HOLES THROUGH VERTICAL ANGLE LEG AND GIRDER WEB PLATE USING RETROFIT ANGLE AS TEMPLATE.

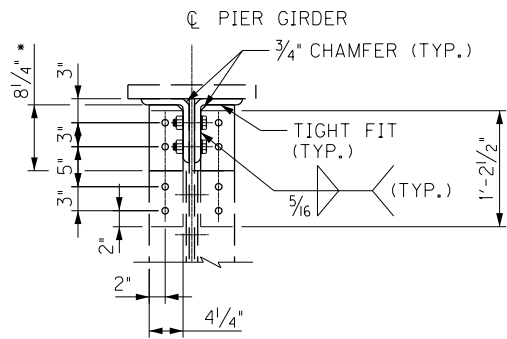
PLACE OPPOSITE ANGLE AND INSTALL BOLTS TO SNUG TIGHT CONDITION. CLEAN ALL CONNECTION SURFACES TO REMOVE DRILL SHAVINGS AND CONTAMINANTS. TIGHTEN ALL INSTALLED BOLTS TO 28,000 LBS.

RESTORE INTERMEDIATE STIFFENER TIGHT FIT CONDITION AS INDICATED.

FOR PIER GIRDER 110 ORIGINAL PLANS, SEE DN 15754 SHEET 64.

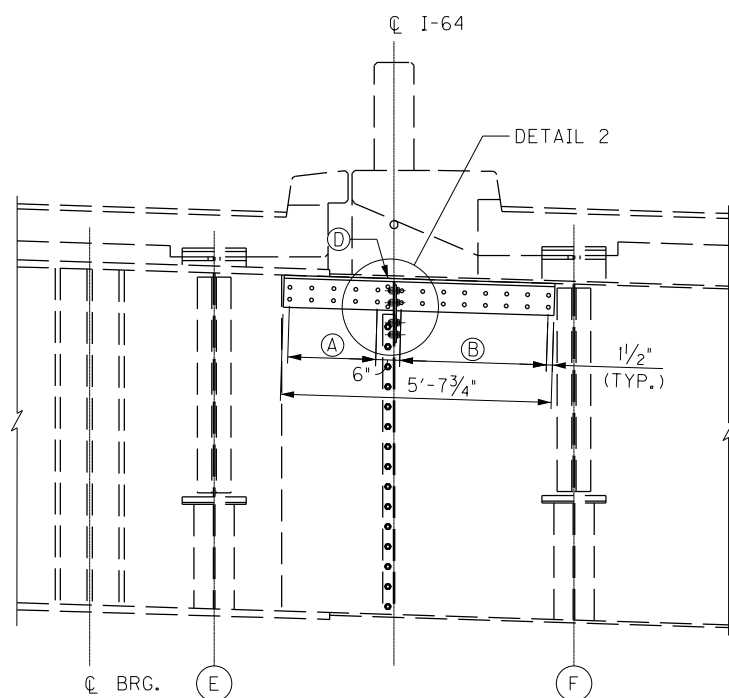


DETAIL 2



SECTION B-B

MATCH DRILL HOLES IN FIELD USING SPLICE PLATE AS TEMPLATE



DETAIL 1

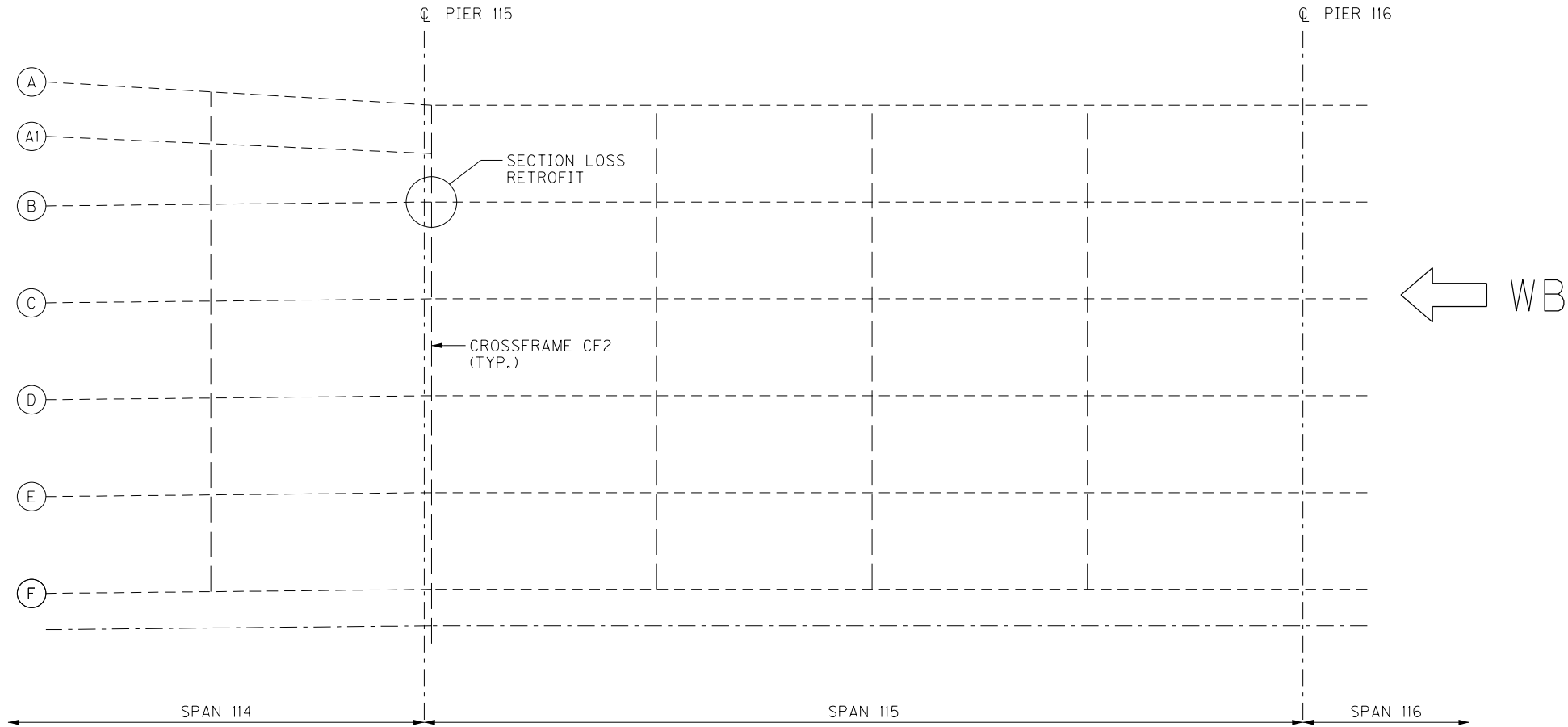
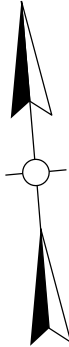
LEGEND

- (A) 4 SPA. @ 5 1/2" = 1'-10"
- (B) 7 SPA @ 5 1/4" = 3'-0 3/4"
- (C) REMOVE TOP 9" OF BOLTED INTERMEDIATE STIFFENER. CONFIRM OPEN BOLT HOLES IN THE WEB FROM THE REMOVAL CAN BE COVERED BY THE RETROFIT ANGLES.
- (D) CLEAN AND PRIME EXPOSED AREAS OF THE TOP FLANGE NOT COVERED BY CONCRETE AS DIRECTED BY THE ENGINEER.
- \* TRIM TO FIT IN THE FIELD

BRIDGE - B142

| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
|-------------|--|---|--|----------------------|--|
| 5-10016     |  | Michael Baker International   |  | S26                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |  |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



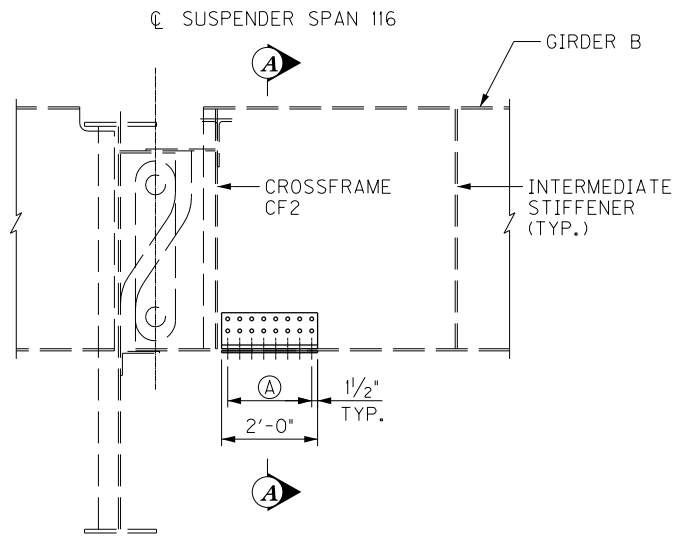
FRAMING PLAN



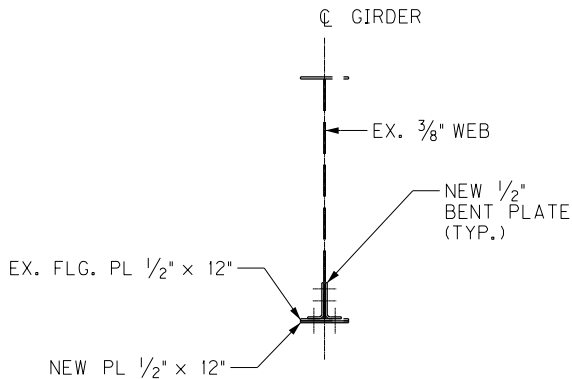
SECTION LOSS – GIRDER B WEB



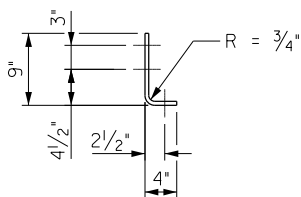
SECTION LOSS – GIRDER B BOTTOM FLANGE



GIRDER ELEVATION  
STEEL REPAIR - TYPE A



SECTION A-A



BENT PLATE DETAIL

LEGEND

Ⓐ 7 SPA. @ 3" = 1'-9"

NOTES

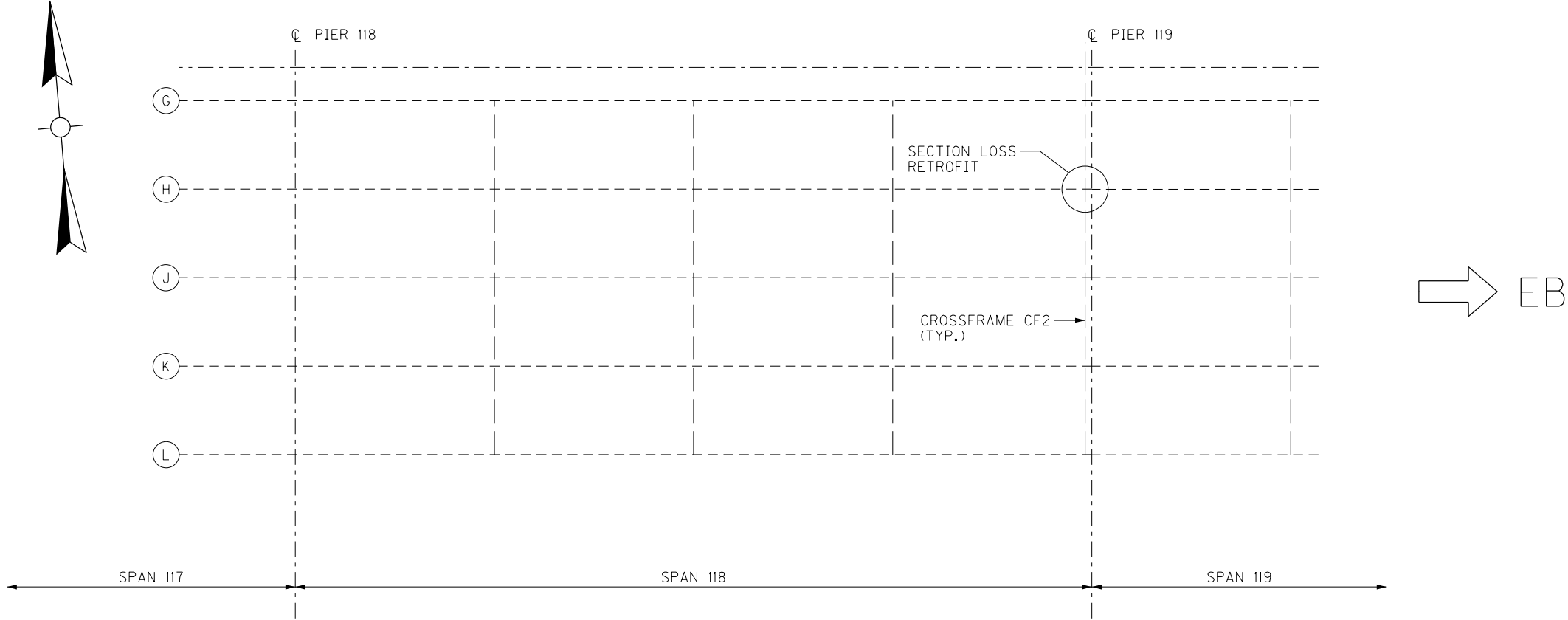
- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- STRUCTURAL STEEL CHANNEL MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS @ 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.

BRIDGE – B142

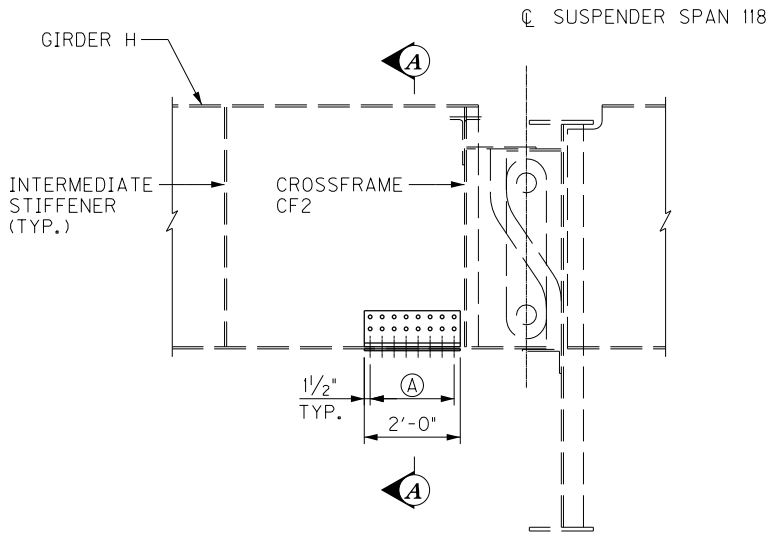
| ITEM NUMBER |
|-------------|
| 5-10016     |

|   |   |                      |
|---|---|----------------------|
|   |   |                      |
|   |   |                      |
|   |   |                      |
| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: D BARON  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | D BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| GIRDER RETROFIT SPAN 115  |   |                      |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |   | SHEET NO.<br>S27     |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

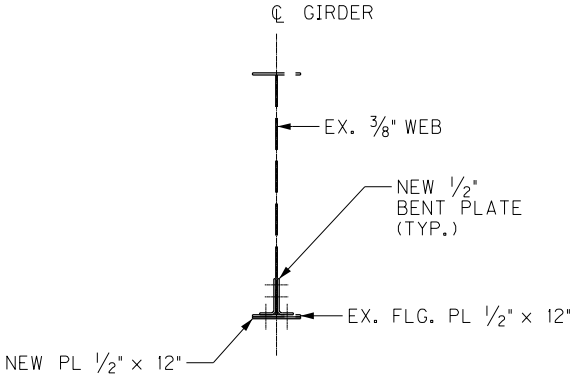
FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-BENTLEY.COM\_MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



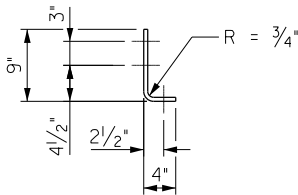
FRAMING PLAN



GIRDER ELEVATION  
STEEL REPAIR - TYPE A



SECTION A-A



BENT PLATE DETAIL



SECTION LOSS – GIRDER H

LEGEND

(A) 7 SPA. @ 3" = 1'-9"

NOTES

- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- STRUCTURAL STEEL CHANNEL MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS @ 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.

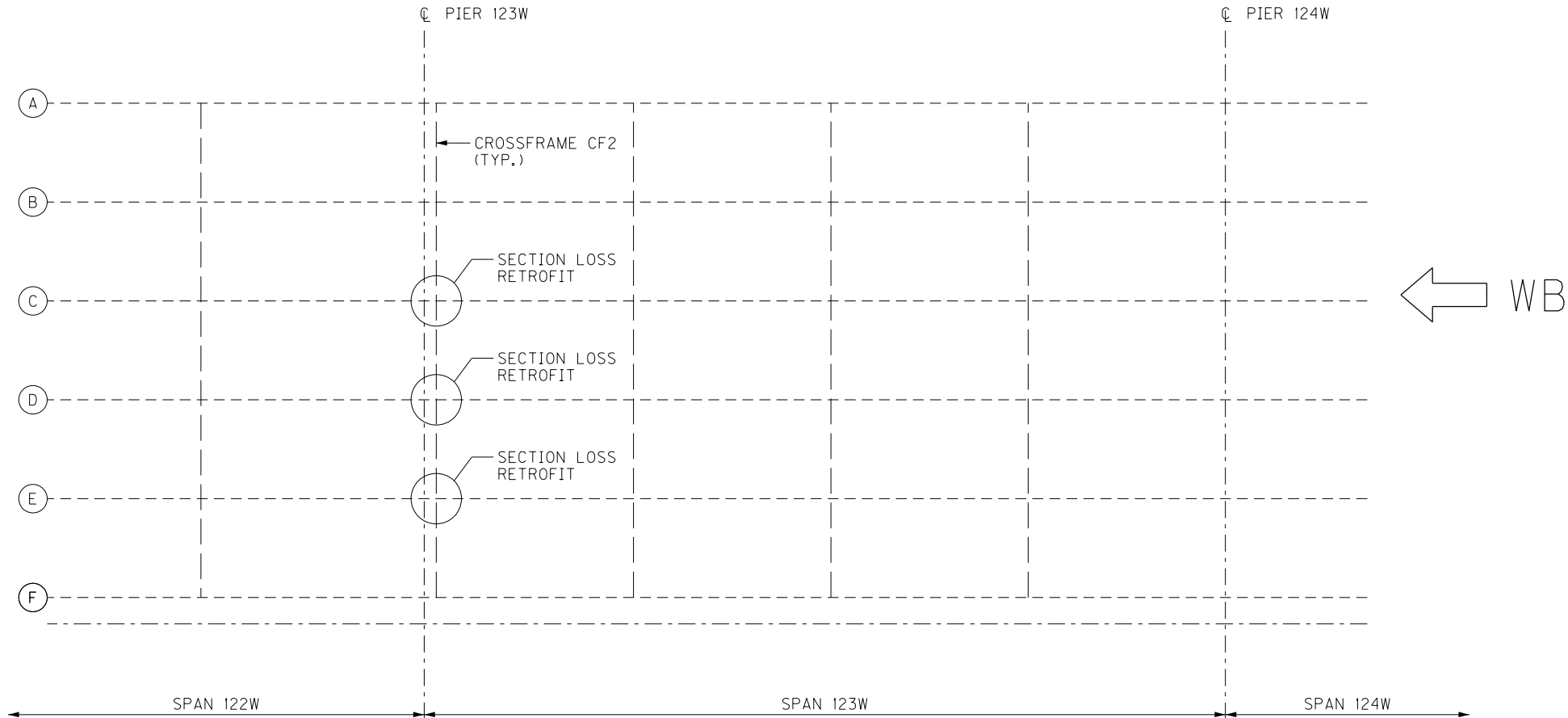
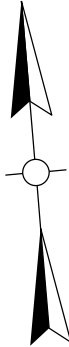
BRIDGE – B142

| ITEM NUMBER |  | PREPARED BY                           |  | SHEET NO.                       |  |
|-------------|--|---------------------------------------|--|---------------------------------|--|
| 5-10016     |  | <b>Michael Baker</b><br>INTERNATIONAL |  | <b>S28</b><br>DRAWING NO. 28870 |  |

|  |  |   |  |
|--|--|---|--|
|  |  |   |  |
|  |  |   |  |
|  |  |   |  |
| REVISION   |  | DATE                                      |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY                                |  |
| DESIGNED BY: D BARON                               |  | M BARON                                   |  |
| DETAILED BY: MJ DWYER                              |  | D BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| GIRDER RETROFIT SPAN 118                           |  |   |  |



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USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



FRAMING PLAN



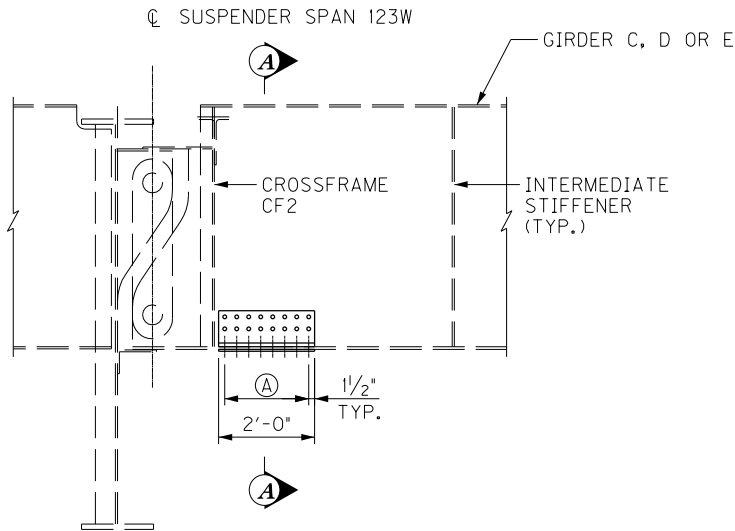
SECTION LOSS – GIRDER D

LEGEND

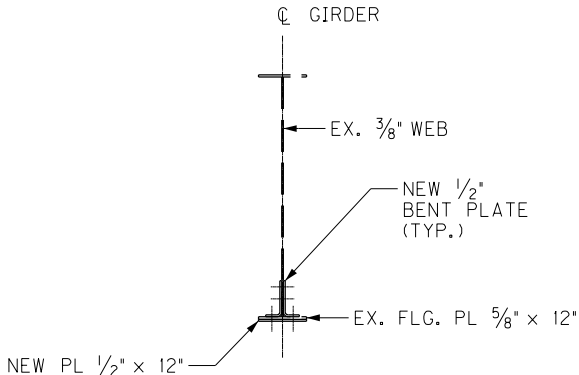
(A) 7 SPA. @ 3" = 1'-9"

NOTES

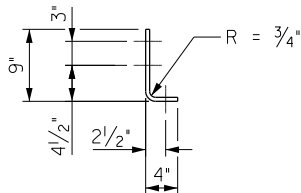
- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- STRUCTURAL STEEL CHANNEL MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS @ 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.



GIRDER ELEVATION  
STEEL REPAIR - TYPE A



SECTION A-A



BENT PLATE DETAIL

BRIDGE – B142

| ITEM NUMBER |  | PREPARED BY                           |  | SHEET NO.                       |  |
|-------------|--|---------------------------------------|--|---------------------------------|--|
| 5-10016     |  | <b>Michael Baker</b><br>INTERNATIONAL |  | <b>S29</b><br>DRAWING NO. 28870 |  |

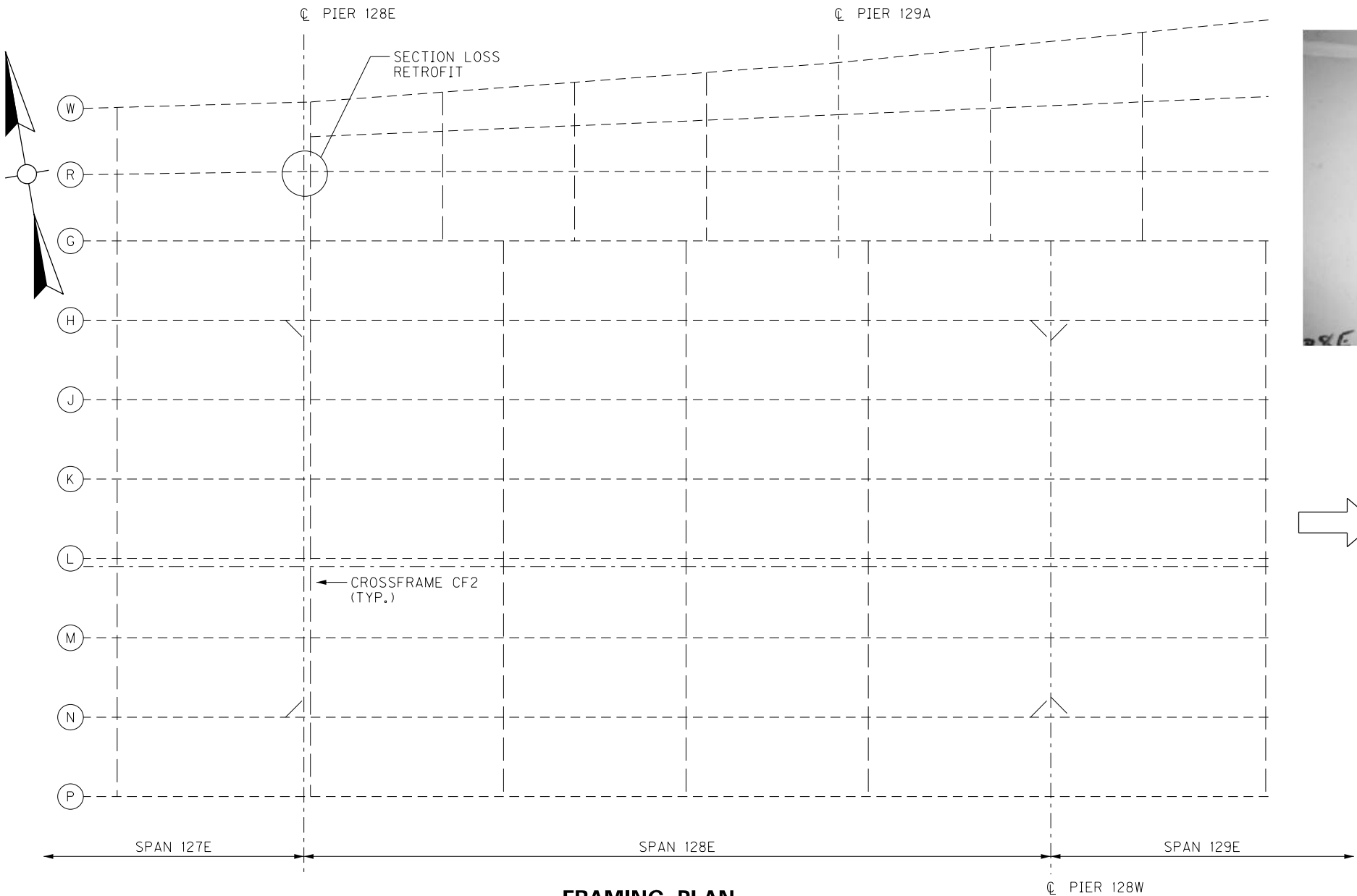
|  |   |      |
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|  |   |      |
|  |   |      |
| REVISION   |   | DATE |
| DATE: AUGUST 2025                                  | CHECKED BY                                |      |
| DESIGNED BY: D BARON                               | M BARON                                   |      |
| DETAILED BY: MJ DWYER                              | D BARON                                   |      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |   |      |
| COUNTY<br>JEFFERSON                                |   |      |
| ROUTE<br>I-64                                      | CROSSING<br>K & I TT RR TO PRESTON STREET |      |
| GIRDER RETROFIT SPAN 123W                          |   |      |

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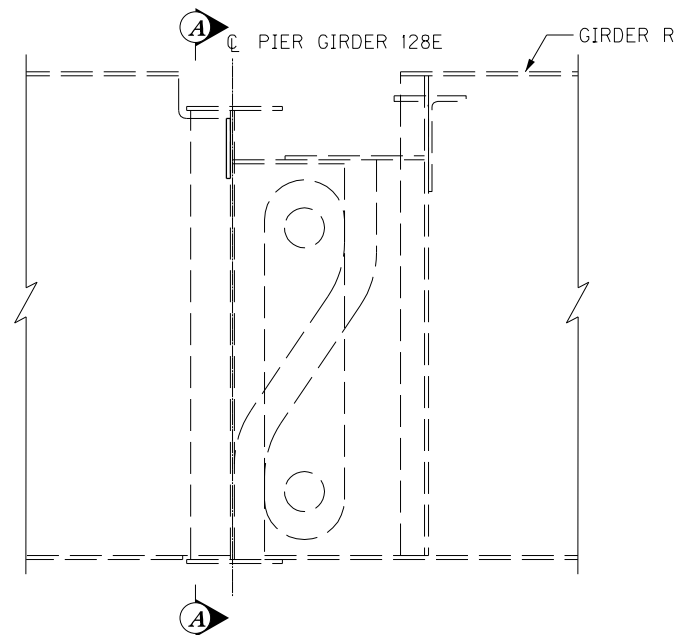
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

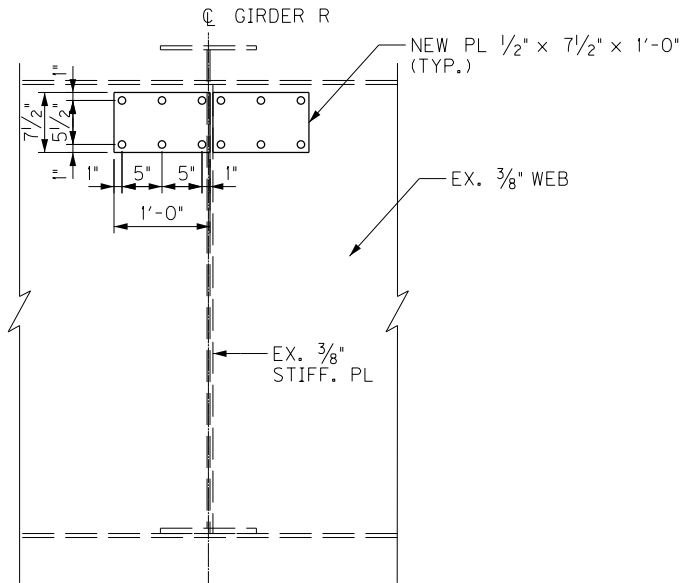
MicroStation v10.17.01.58



FRAMING PLAN



GIRDER ELEVATION



SECTION A-A

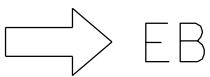


NORTH SIDE



SOUTH SIDE

SECTION LOSS AT PIER GIRDER 128E



NOTES

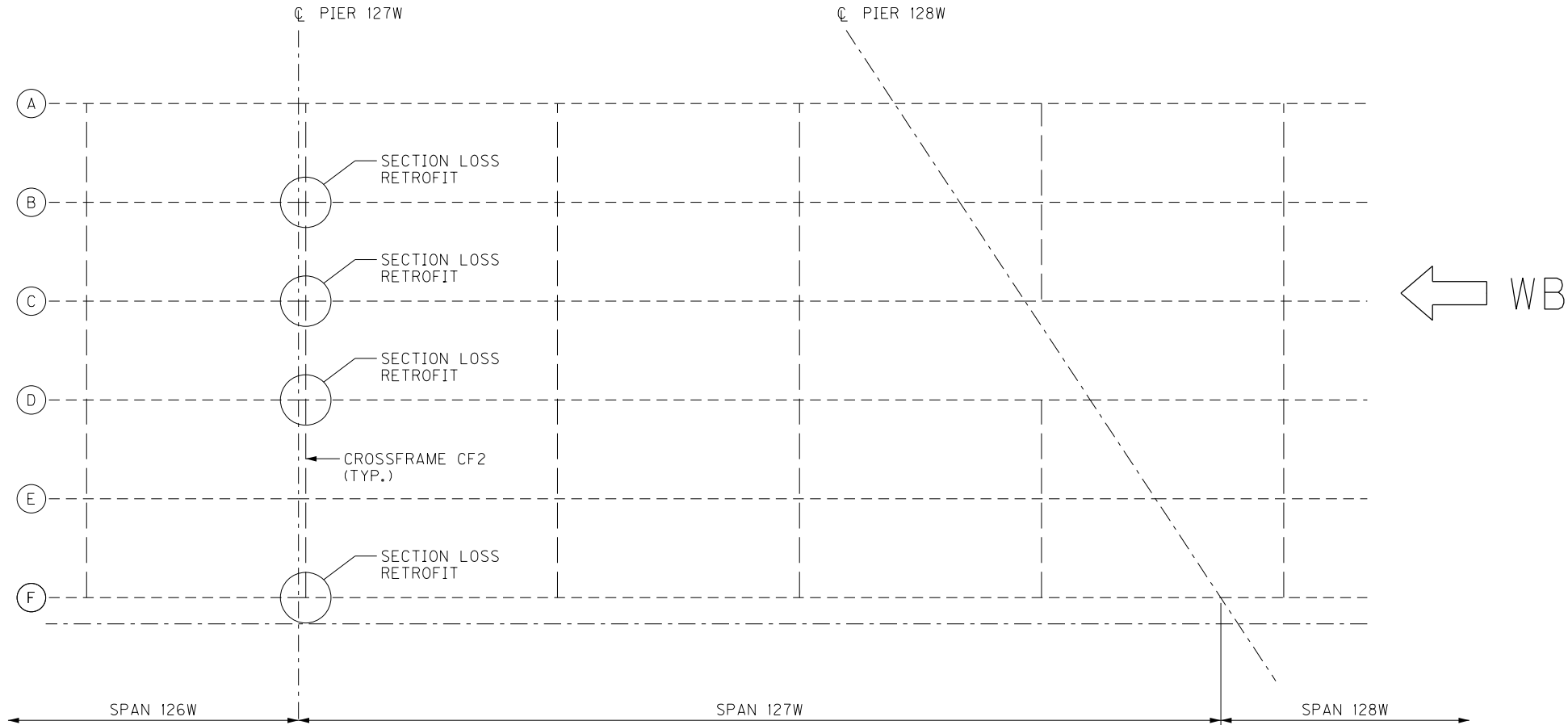
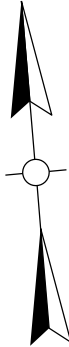
- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- CENTER THE NEW PLATE VERTICALLY ON THE CENTER OF THE CORROSION HOLE. ENSURE A MINIMUM EDGE DISTANCE OF 1 1/2" FROM CENTERLINE OF BOLT TO EDGE OF CORROSION HOLE.
- NEW PLATE STRUCTURAL STEEL MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS @ 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.

|   |  |   |                      |
|---|--|---|----------------------|
|   |  |   |                      |
|   |  |   |                      |
|   |  |   |                      |
| REVISION  |  | DATE                                      |                      |
| DATE: AUGUST 2025   |  | CHECKED BY                                |                      |
| DESIGNED BY: M BARON  |  | J STITH                                   |                      |
| DETAILED BY: MJ DWYER   |  | D BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |                      |
| COUNTY<br>JEFFERSON   |  |   |                      |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| GIRDER RETROFIT SPAN 127E   |  |   |                      |
| PREPARED BY   |  |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |  |   | S30                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |   | DRAWING NO.<br>28870 |

BRIDGE - B142

|             |  |
|-------------|--|
| ITEM NUMBER |  |
| 5-10016     |  |

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USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



FRAMING PLAN



Photo 29 - Span 127W, Girder B, North face at cross-frame 1 - Hole through bottom of web (2" H x 10" L) - GB9

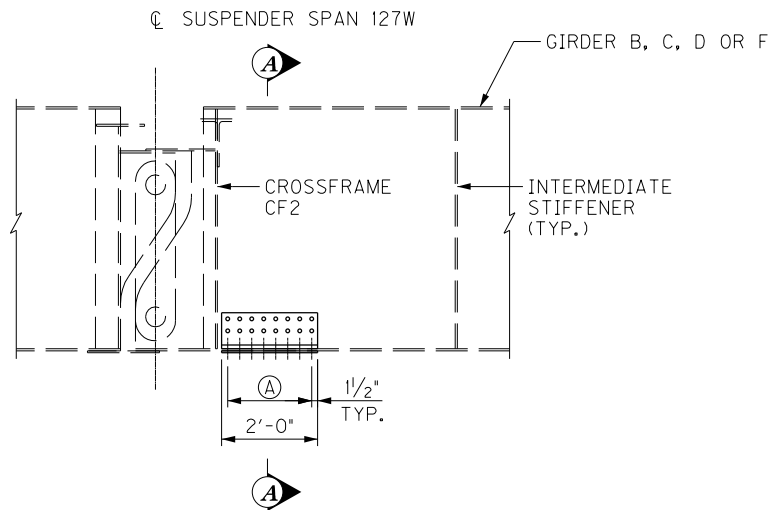
SECTION LOSS - GIRDER B

LEGEND

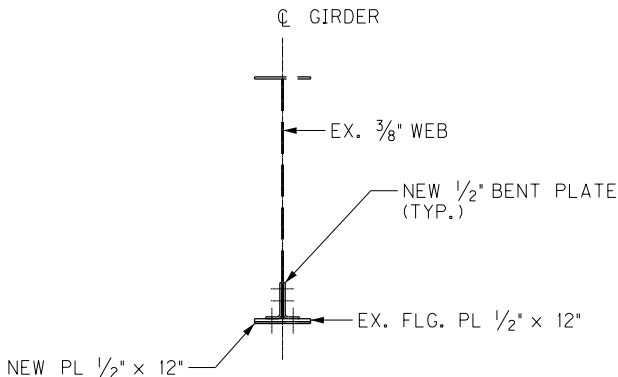
Ⓐ 7 SPA. @ 3" = 1'-9"

NOTES

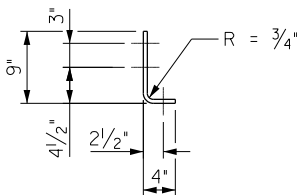
- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- STRUCTURAL STEEL CHANNEL MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS @ 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.



GIRDER ELEVATION  
STEEL REPAIR - TYPE A



SECTION A-A

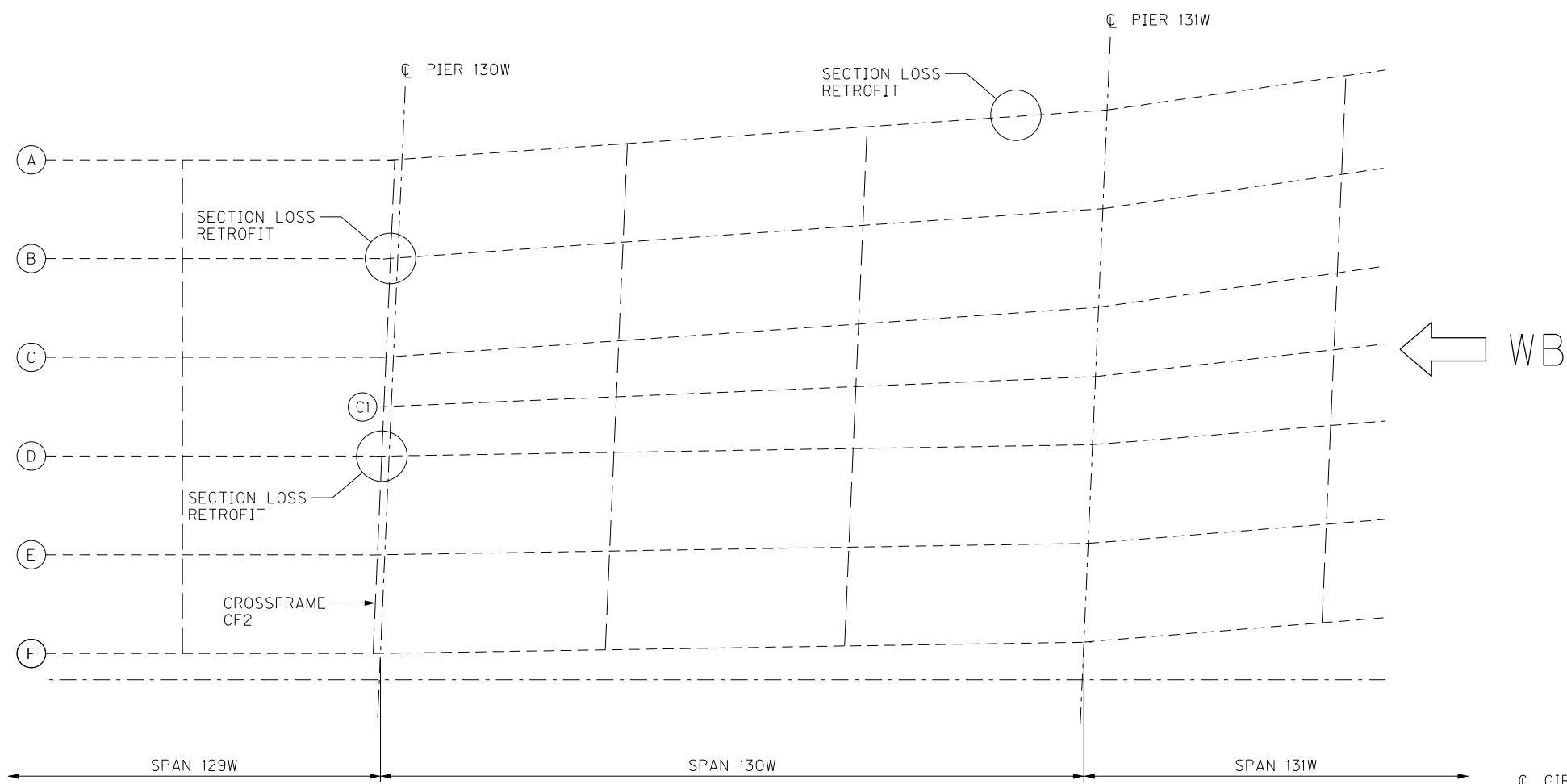
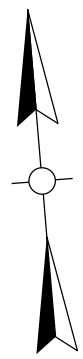


BENT PLATE DETAIL

BRIDGE - B142

| ITEM NUMBER | PREPARED BY  | SHEET NO.                |
|-------------|--|--------------------------|
| 5-10016     | Michael Baker International<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | S31<br>DRAWING NO. 28870 |

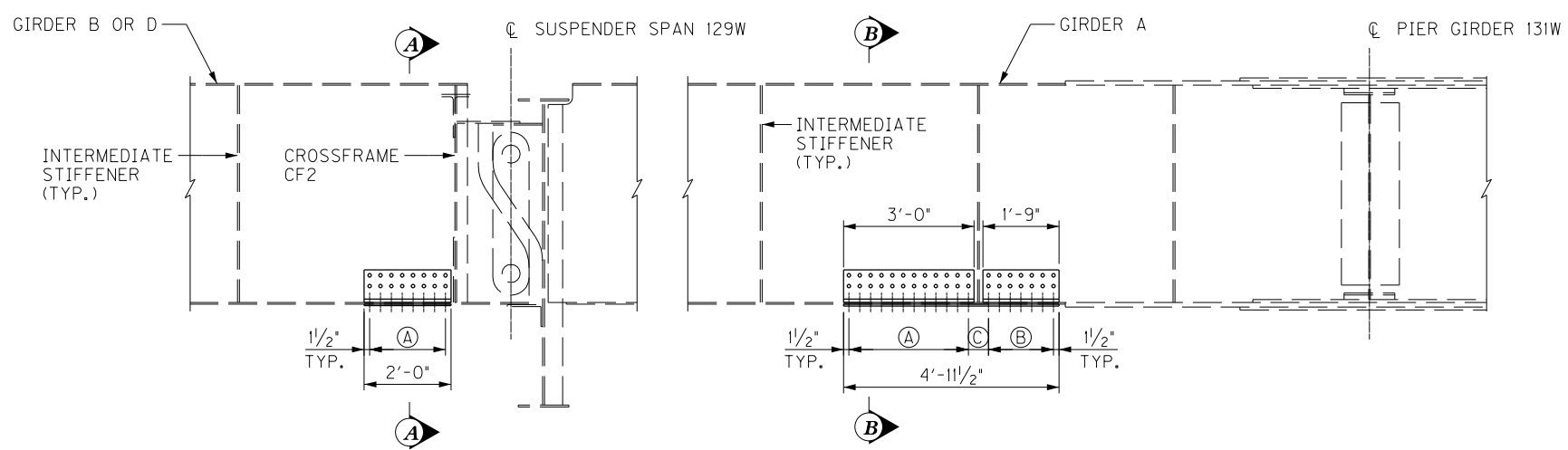
FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: January 19, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



FRAMING PLAN

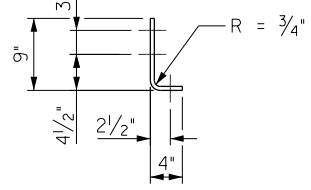


SECTION LOSS - GIRDER A

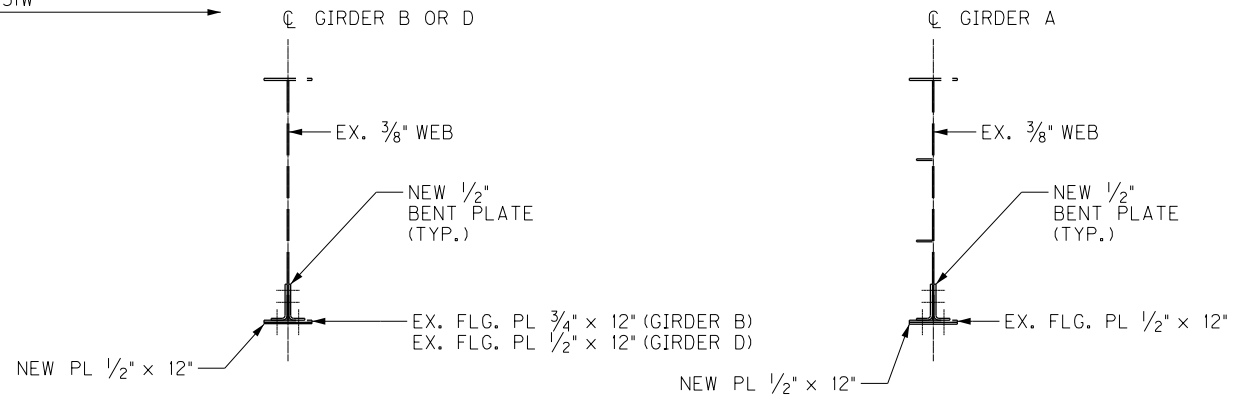


GIRDERS B OR D ELEVATION  
STEEL REPAIR - TYPE A

GIRDERS A ELEVATION  
STEEL REPAIR - TYPE B



BENT PLATE DETAIL



SECTION A-A

SECTION B-B

NOTES

- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- STRUCTURAL STEEL CHANNEL MATERIAL SHALL CONFORM TO AASHTO M270 (A709) GRADE 36 AND MEET CHARPY V-NOTCH TOUGHNESS REQUIREMENTS OF 15 FT-LBS @ 40 DEG F.
- BOLTS SHALL BE 7/8" DIAMETER F3125 GRADE A325 HIGH STRENGTH BOLTS.
- COORDINATE THE UTILITY BRACKET REMOVAL AND REPLACEMENT WITH THE GIRDER A RETROFIT WORK.

LEGEND

- (A) 11 SPA. @ 3" = 2'-9"
- (B) 6 SPA. @ 3" = 1'-6"
- (C) 5 1/2"

BRIDGE - B142

| ITEM NUMBER |
|-------------|
| 5-10016     |

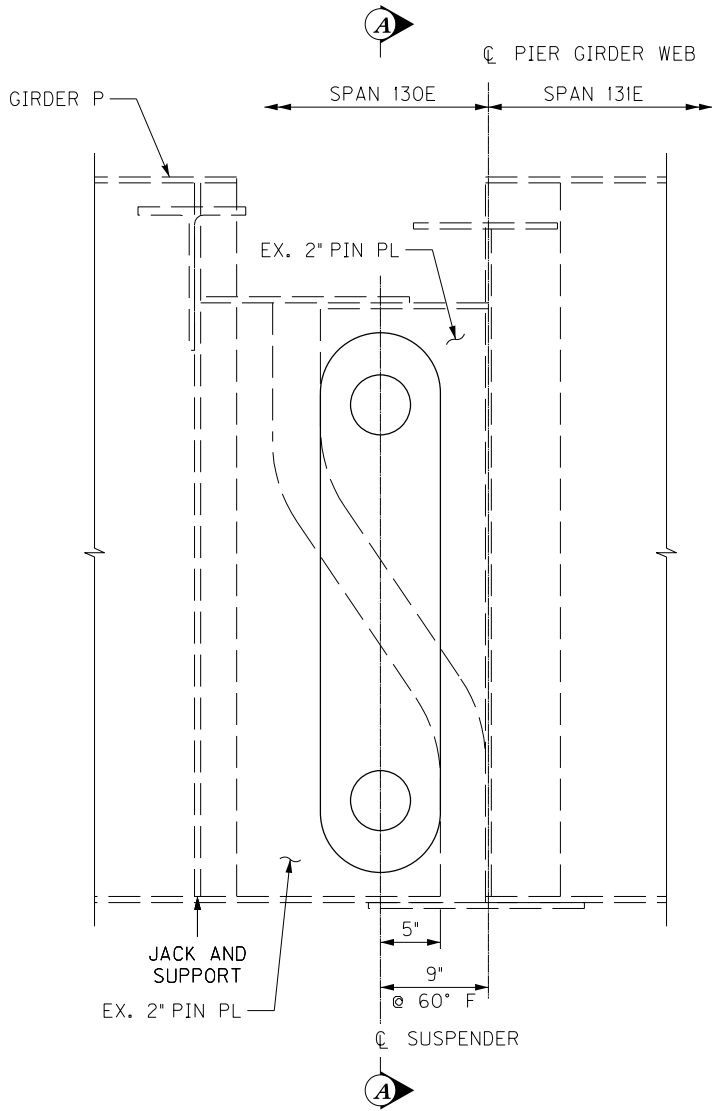
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|---|---|-----------------------------|
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|   |   |                             |
|   |   |                             |
| REVISION  |   | DATE                        |
| DATE: AUGUST 2025   | CHECKED BY                                |                             |
| DESIGNED BY: MJ DWYER   | M BARON                                   |                             |
| DETAILED BY: MJ DWYER   | M BARON                                   |                             |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                             |
| COUNTY<br>JEFFERSON   |   |                             |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                             |
| GIRDER RETROFIT SPAN 129W-130W  |   |                             |
| PREPARED BY   |   | SHEET NO.                   |
| Michael Baker<br>INTERNATIONAL  |   | S32<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com |   |                             |

FILE NAME: C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-BENTLEY.COM\_MB-US-PW-03\MARY.JO.DWYER\MBAKERINTL.COM

USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023

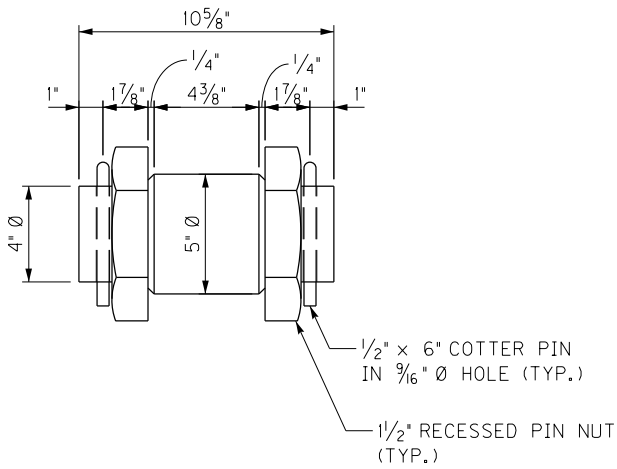
E-SHEET NAME: S23464 020

MicroStation v10.17.01.58



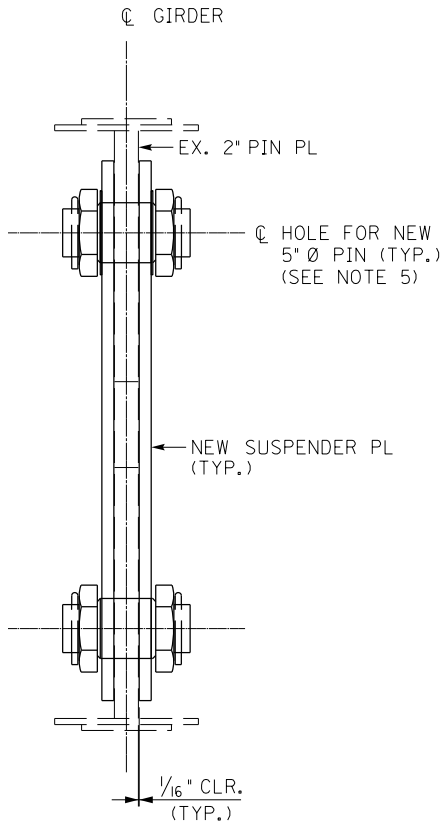
ELEVATION

PIER GIRDER 131E  
GIRDER P  
(DN 15754)

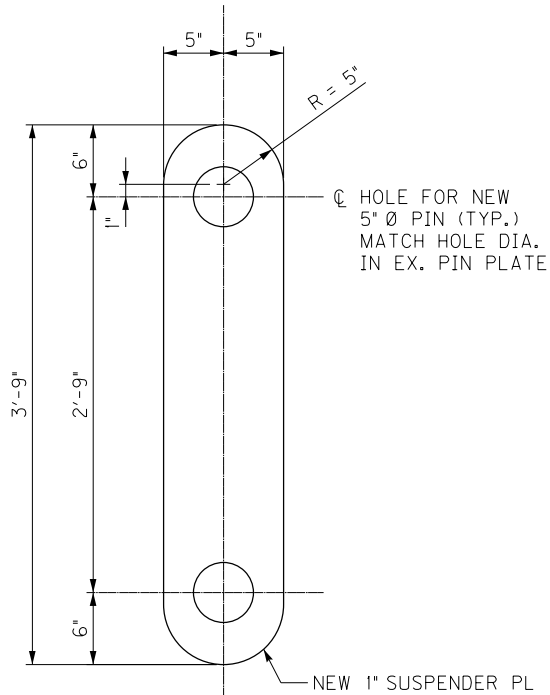


NEW PIN DETAIL

NEW PINS ARE FRACTURE CRITICAL MEMBERS



SECTION A-A



NEW SUSPENDER PL

NEW SUSPENDER PLATES SHALL MEET CHARPY V-NOTCH  
FRACTURE CRITICAL TOUGHNESS REQUIREMENTS

NOTES

- FOR SUSPENDER LOCATION, SEE SHEET NO. S14.
- FOR SPAN 130E GIRDER P SUSPENDER DETAILS NOT SHOWN, SEE DN 15754 SHEET 99.
- STRUCTURAL STEEL SHALL CONFORM TO ASTM 709 GRADE 36.
- PINS SHALL CONFORM TO ASTM A668 GRADE D.
- FABRICATE PINS IN ACCORDANCE WITH SECTION 607.03.09 OF THE STANDARD SPECIFICATIONS. PINS SHALL NOT BE PAINTED.
- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- ONLY ONE SUSPENDER LOCATION MAY BE WORKED ON AT A TIME.

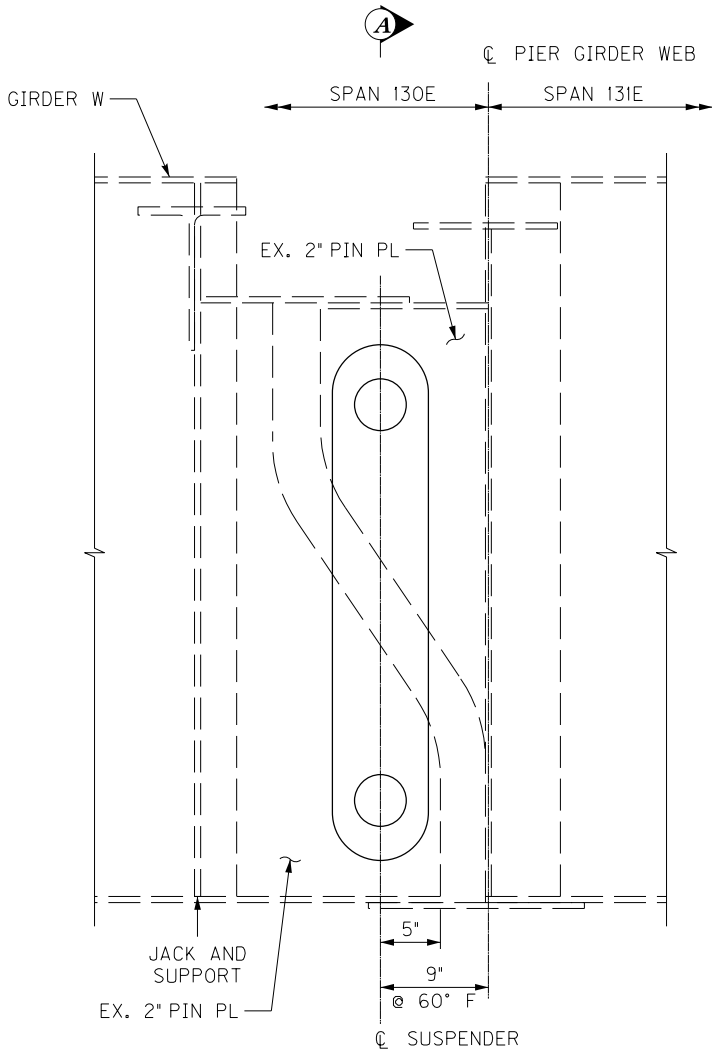
PG 131E GIRDER P LOAD TABLE

| DL<br>DEAD<br>LOAD<br>(KIP) | LL+I<br>LIVE<br>LOAD<br>(KIP) | 1.25 DL +<br>1.35 LL+I<br>(KIP) | MIN.<br>JACK<br>CAPACITY<br>(TONS) |
|-----------------------------|-------------------------------|---------------------------------|------------------------------------|
| 60                          | 165                           | 298                             | 300                                |

BRIDGE – B142

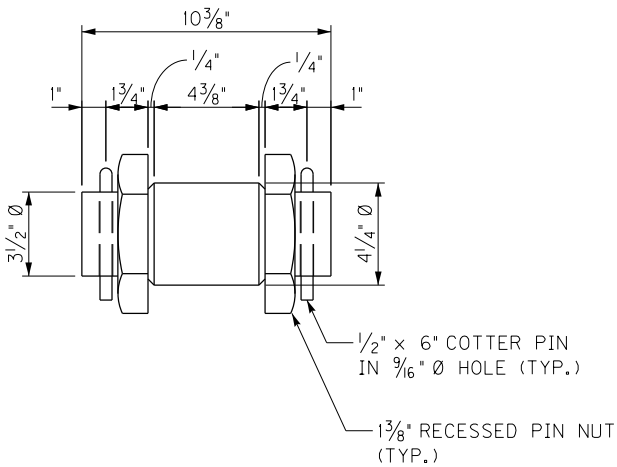
| ITEM NUMBER | PREPARED BY  | SHEET NO.                                 |
|-------------|--|---|
| 5-10016     | <b>Michael Baker</b><br>INTERNATIONAL<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | <b>S33</b><br>DRAWING NO.<br><b>28870</b> |

FILE NAME: C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER\MBAKERINTL.COM\DWG  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



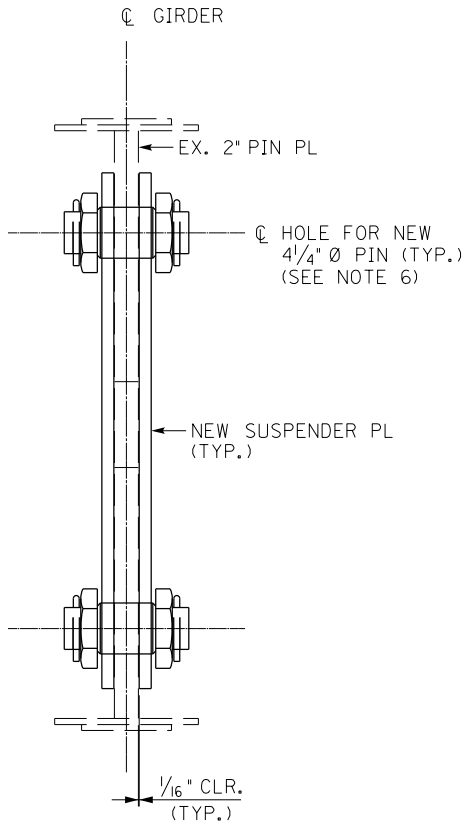
ELEVATION

PIER GIRDER 131E  
GIRDER W  
(DN 19238)

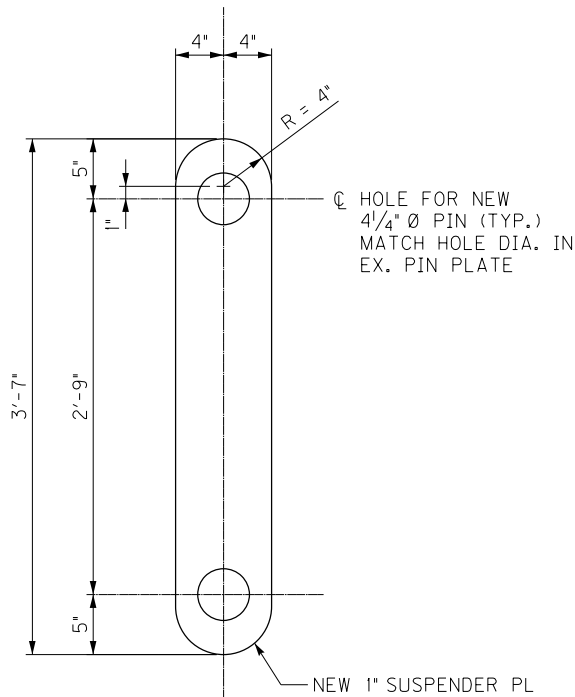


NEW PIN DETAIL

NEW PINS ARE FRACTURE CRITICAL MEMBERS



SECTION A-A



NEW SUSPENDER PL

NEW SUSPENDER PLATES SHALL MEET CHARPY V-NOTCH  
FRACTURE CRITICAL TOUGHNESS REQUIREMENTS

NOTES

- FOR SUSPENDER LOCATION, SEE SHEET NO. S14.
- FOR SPAN 130E GIRDER W SUSPENDER DETAILS NOT SHOWN, SEE DN 19238 SHEET 19 & 20.
- FOR SPAN 130E & 131E WIDENING, SEE DN 26972 SHEET IS3515 & IS3530.
- STRUCTURAL STEEL SHALL CONFORM TO ASTM 709 GRADE 36.
- PINS SHALL CONFORM TO ASTM A668 GRADE D.
- FABRICATE PINS IN ACCORDANCE WITH SECTION 607.03.09 OF THE STANDARD SPECIFICATIONS. PINS SHALL NOT BE PAINTED.
- FOR GENERAL NOTES, SEE SHEET NOS. S5-S7.
- ONLY ONE SUSPENDER LOCATION MAY BE WORKED ON AT A TIME.

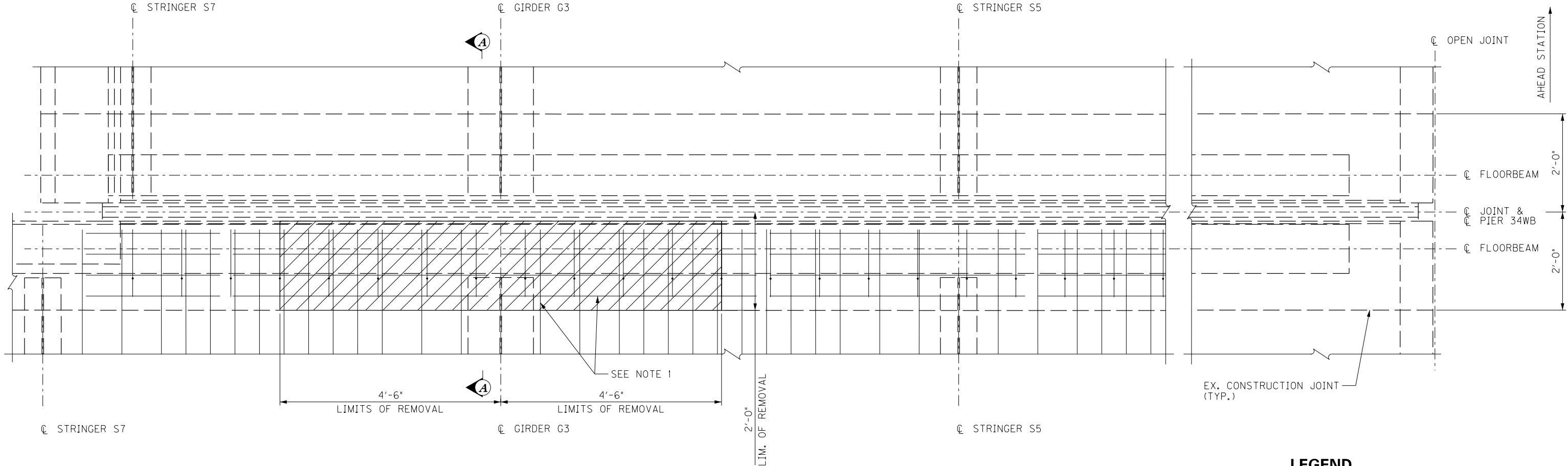
PG 131E GIRDER W LOAD TABLE

| DL<br>DEAD<br>LOAD<br>(KIP) | LL+I<br>LIVE<br>LOAD<br>(KIP) | 1.25 DL +<br>1.35 LL+I<br>(KIP) | MIN.<br>JACK<br>CAPACITY<br>(TONS) |
|-----------------------------|-------------------------------|---------------------------------|------------------------------------|
| 60                          | 165                           | 298                             | 300                                |

BRIDGE – B142

| ITEM NUMBER | PREPARED BY  | SHEET NO.                                 |
|-------------|--|---|
| 5-10016     | <b>Michael Baker</b><br>INTERNATIONAL<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | <b>S34</b><br>DRAWING NO.<br><b>28870</b> |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM\DRAWING\28870.DWG  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



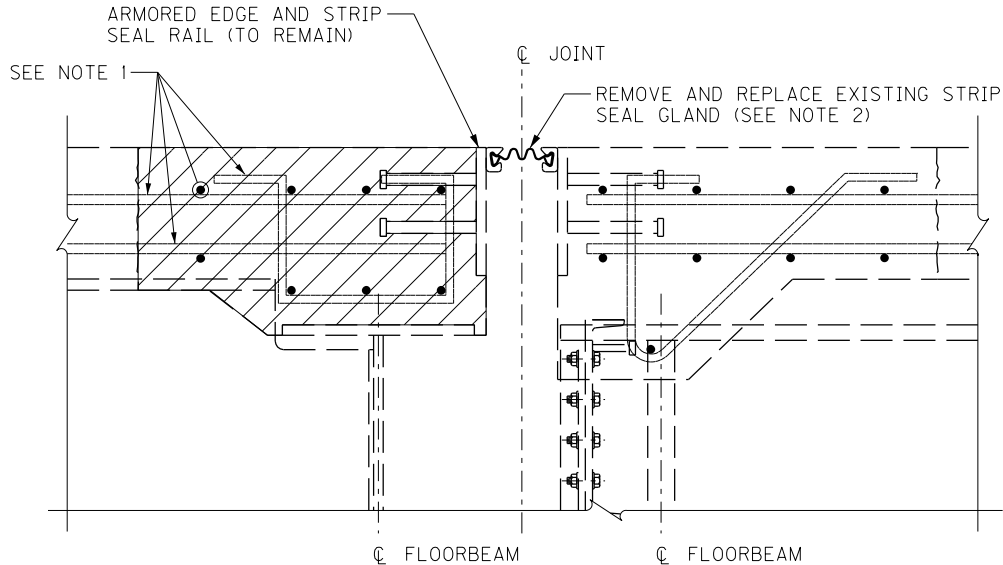
LEGEND

 REMOVAL LIMITS

PLAN DECK REMOVAL

NOTES

1. REMOVE CONCRETE WITH A METHOD THAT WILL NOT DAMAGE EXISTING REINFORCEMENT TO REMAIN IN THE STRUCTURE.
2. INCLUDE WORK TO REMOVE AND REPLACE THE EXISTING STRIP SEAL GLAND IN BID ITEM "JOINT SEAL REPLACEMENT - TRANSVERSE".

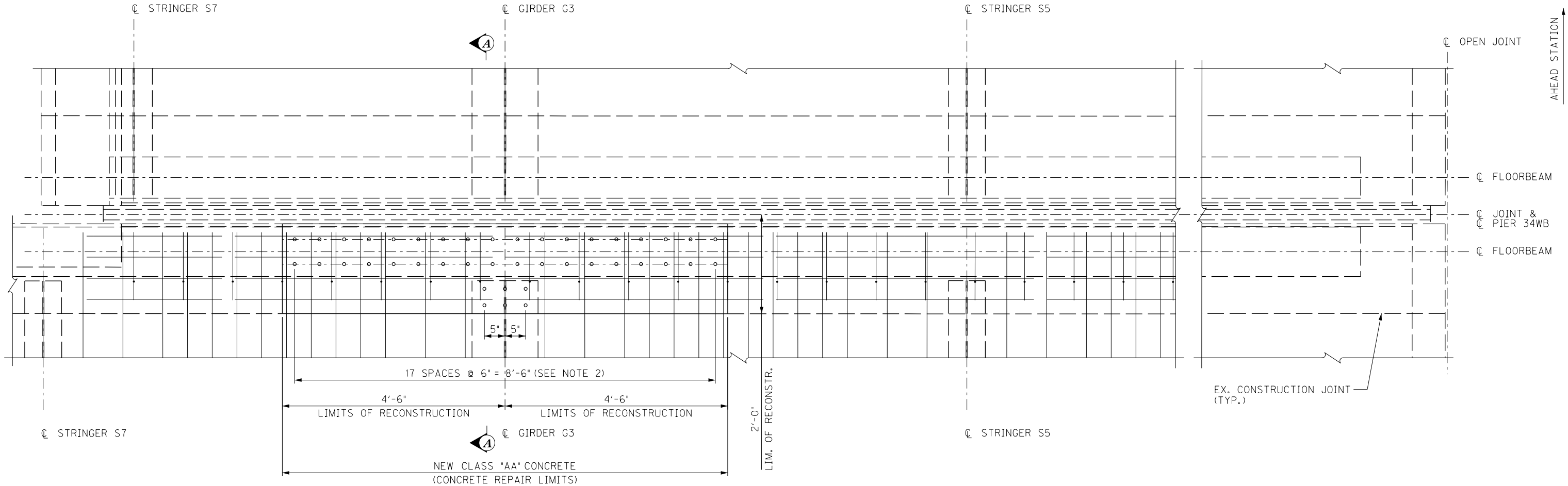


SECTION A-A

BRIDGE - B293

| ITEM NUMBER |  | PREPARED BY  |  | SHEET NO.   |
|-------------|--|--|--|---|
| 5-10016     |  | <br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | <br>DRAWING NO.<br>28870 |

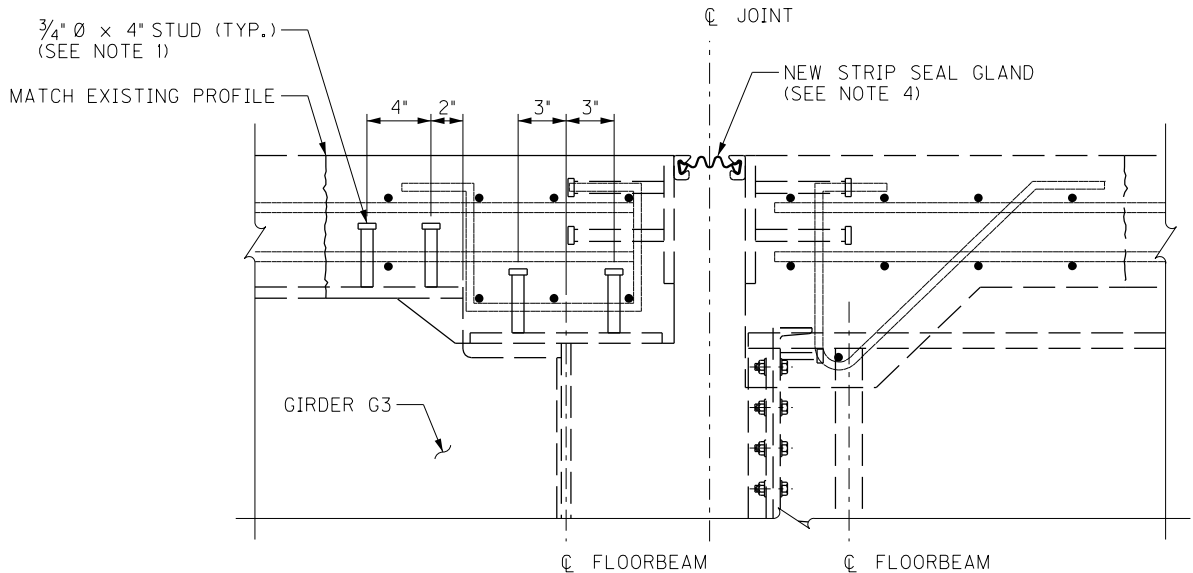
FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



**PLAN DECK RECONSTRUCTION**

**NOTES**

1. PLACE WELDED SHEAR STUD CONNECTORS CONFORMING TO SECTION 813.11 ON CLEANED GIRDER AND FLOORBEAM TOP FLANGES AS SHOWN.
2. LOCATE WELD STUDS TO APPROXIMATELY FIT THE SPACING OF THE EXISTING TOP AND BOTTOM LONGITUDINAL REINFORCING STEEL.
3. ADJUST THE STIRRUPS AND TRANSVERSE REINFORCING STEEL AS NECESSARY TO ACCOMMODATE THE WELD STUD LOCATIONS.
4. INCLUDE WORK TO REMOVE AND REPLACE THE EXISTING STRIP SEAL GLAND IN BID ITEM "JOINT SEAL REPLACEMENT - TRANSVERSE".
5. SHEAR CONNECTORS: PROVIDE THE NECESSARY LENGTH TO PENETRATE AT LEAST 2" ABOVE BOTTOM OF SLAB. STUD LENGTHS SHALL NOT BE LESS THAN 5 1/2". PROVIDE A MINIMUM COVER OF 2 1/2" FROM THE TOP OF THE DECK TO THE TOP OF THE SHEAR CONNECTOR.
6. WELD STUDS IN ACCORDANCE WITH AWS SPECIFICATIONS. A MINIMUM BASE METAL PREHEAT TEMPERATURE IS REQUIRED. PREHEAT SHALL BE CONTROLLED BY THE USE OF TEMPERATURE INDICATING CRAYONS.
7. SHEAR STUD COST IS CONSIDERED INCIDENTAL TO THE UNIT COST FOR "CONCRETE REPAIR - PIER 34W". WELDED STUD WEIGHT APPROXIMATELY 25 LBS.



**SECTION A-A**

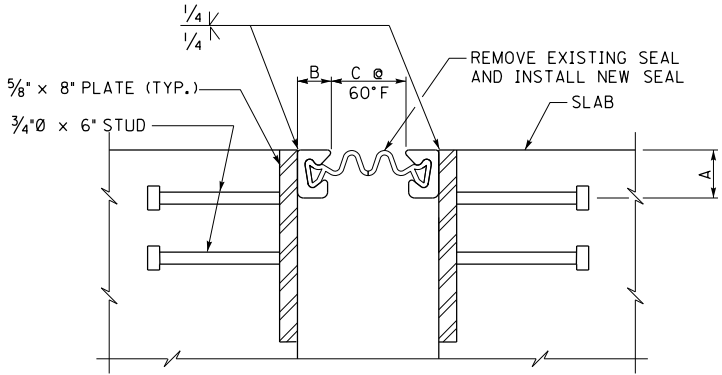
**BRIDGE - B293**

| ITEM NUMBER |  | PREPARED BY                 | SHEET NO. |
|-------------|--|-----------------------------|-----------|
| 5-10016     |  | Michael Baker INTERNATIONAL | S36       |

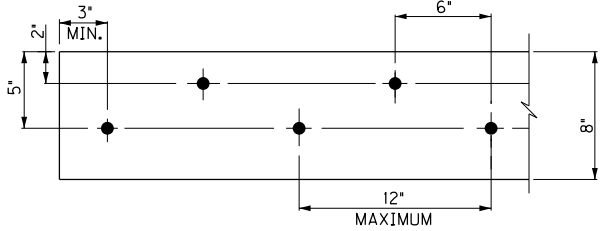
|               |                                      |   |                      |
|---------------|--------------------------------------|---|----------------------|
| ROUTE<br>I-64 | CROSSING<br>K & I T RR TO PRESTON ST | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | DRAWING NO.<br>28870 |
|---------------|--------------------------------------|---|----------------------|

|   |                                      |  |
|---|--------------------------------------|--|
|   |                                      |  |
|   |                                      |  |
| REVISION  |                                      | DATE                                     |
| DATE: AUGUST 2025                                     | CHECKED BY                           |  |
| DESIGNED BY: D BARON                                  | M BARON                              |  |
| DETAILED BY: MJ DWYER                                 | D BARON                              |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS    |                                      |  |
| COUNTY<br>JEFFERSON                                   |                                      |  |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON ST |  |
| PIER 34WB DECK RETROFIT – 2                           |                                      |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL |                                      | SHEET NO.<br>S36<br>DRAWING NO.<br>28870 |

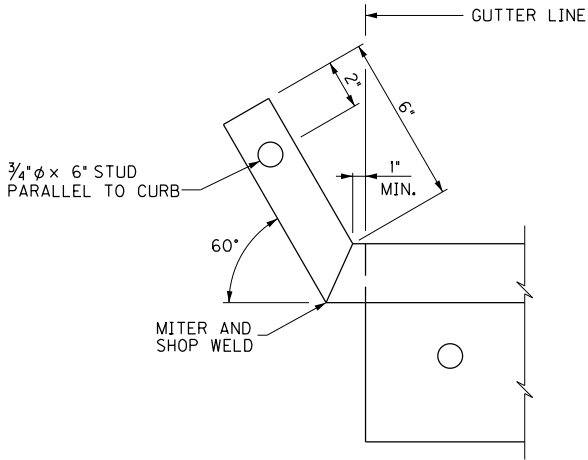




SECTION THRU JOINT  
(EXISTING)



STUD PATTERN  
(EXISTING)



UPTURN DETAIL  
(EXISTING)

ALTERNATE NEOPRENE EXPANSION DAMS

| MODEL  | SUPPLIER                    | A  | B      | C      |
|--|-----------------------------|----|--------|--------|
| STEEL FLEX<br>TYPE SSA2 WITH A2R-400 SEAL            | D.S. BROWN CO.              | 2" | 1 1/4" | 2"     |
| STEEL FLEX<br>TYPE SSA2 WITH A2R-XTRA SEAL           | D.S. BROWN CO.              | 2" | 1 1/4" | 2 1/2" |
| WABO STRIP SEAL<br>TYPE A EXTRUSION WITH SE-400 SEAL | WATSON BOWMAN<br>ACME CORP. | 2" | 1 1/4" | 2"     |
| WABO STRIP SEAL<br>TYPE A EXTRUSION WITH SE-500 SEAL | WATSON BOWMAN<br>ACME CORP. | 2" | 1 1/4" | 2 1/2" |

FOR INFORMATION ONLY

(REPLACE AND INSTALL A NEW SEAL TO  
MATCH THE EXISITNG SEAL REMOVED)

EXISTING STRIP SEALS  
DN26144 - INSTALLED 2007

K & IT RR TRESTLE JOINT SETTING

| PIER     | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |        |
|----------|------------|---------------------------|----------|---------|-------------------------------------|------------------|--------|
|          |            | MIN                       | 60 DEG F | MAX     |                                     | WB               | EB     |
| 3        | 4"         | 1/2                       | 2        | 4 1/4   | 1/4"                                | 44'-4"           | 44'-4" |
| 7        | 4"         | 1/2                       | 2        | 4 1/4   | 1/4"                                | 44'-4"           | 44'-4" |
| 11       | 5"         | 5/8                       | 2 1/2    | 5 5/16  | 3/16"                               | 44'-4"           | 44'-4" |
| 14       | 4"         | 7/8                       | 2        | 3 11/16 | 3/16"                               | 44'-4"           | 44'-4" |
| 18       | 4"         | 1/2                       | 2        | 4 1/4   | 1/4"                                | 44'-4"           | 44'-4" |
| 22       | 4"         | 7/8                       | 2        | 3 11/16 | 3/16"                               | 44'-4"           | 44'-4" |
| 26       | 4"         | 1/2                       | 2        | 4 1/4   | 1/4"                                | 44'-4"           | 44'-4" |
|          |            |                           |          |         |                                     |                  |        |
| END BENT | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (2) |        |
|          |            | MIN                       | 60 DEG F | MAX     |                                     | WB               | EB     |
| EB 2     | 4"         | 1 1/4                     | 2        | 3 5/8   | 1/8"                                | 44'-4"           | 44'-4" |

K & IT RR AND 27TH STREET JOINT SETTING

| PIER     | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |        |
|----------|------------|---------------------------|----------|---------|-------------------------------------|------------------|--------|
|          |            | MIN                       | 60 DEG F | MAX     |                                     | WB               | EB     |
| 2        | 4"         | 1 1/4                     | 2        | 3 5/8   | 1/8"                                | 44'-4"           | 44'-4" |
| 5        | 4"         | 7/8                       | 2        | 3 11/16 | 3/16"                               | 44'-4"           | 44'-4" |
| 8        | 4"         | 7/8                       | 2        | 3 11/16 | 3/16"                               | 44'-4"           | 44'-4" |
|          |            |                           |          |         |                                     |                  |        |
| END BENT | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (2) |        |
|          |            | MIN                       | 60 DEG F | MAX     |                                     | WB               | EB     |
| 2        | 4"         | 1 1/4                     | 2        | 3 5/8   | 1/8"                                | 44'-4"           | 44'-4" |

NORTHWESTERN PKWY & 22ND STREET JOINT SETTING

| PIER     | STRIP SEAL | JOINT OPENING DIMENSION C |          |        | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |
|----------|------------|---------------------------|----------|--------|-------------------------------------|------------------|
|          |            | MIN                       | 60 DEG F | MAX    |                                     |                  |
| 2-WB     | 4"         | 1 1/4                     | 2        | 3 5/8  | 1/8"                                | 72'-7 3/4"       |
| 2-EB     | 4"         | 1 1/4                     | 2        | 3 5/8  | 1/8"                                | 59'-10 3/4"      |
| 6-WB     | 4"         | 1 1/4                     | 2        | 3 5/8  | 1/8"                                | 82'-9 13/16"     |
| 6-EB     | 4"         | 1 1/4                     | 2        | 3 5/8  | 1/8"                                | 67'-6 7/8"       |
| R2       | 4"         | 1 1/4                     | 2        | 3 5/8  | 1/8"                                | 30'-9"           |
|          |            |                           |          |        |                                     |                  |
| END BENT | STRIP SEAL | JOINT OPENING DIMENSION C |          |        | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (2) |
|          |            | MIN                       | 60 DEG F | MAX    |                                     |                  |
| A-WB     | 4"         | 1 5/8                     | 2        | 2 9/16 | 1/16"                               | 82'-8 5/8"       |
| A-EB     | 4"         | 1 5/8                     | 2        | 2 9/16 | 1/16"                               | 69'-1 7/8"       |
| B-WB     | 4"         | 1 5/8                     | 2        | 2 9/16 | 1/16"                               | 82'-9 13/16"     |
| B-EB     | 4"         | 1 5/8                     | 2        | 2 9/16 | 1/16"                               | 67'-6 7/8"       |
| RA       | 4"         | 1 5/8                     | 2        | 2 9/16 | 1/16"                               | 45'-3 1/2"       |

- (1) GUTTER LINE-TO-GUTTER LINE ALONG C/L EXISTING JOINT.  
(2) GUTTER LINE-TO-GUTTER LINE ALONG EXISTING FRONT FACE BACKWALL.  
(3) FABRICATE THE STRIP SEAL TO ACCOMMODATE THE DISTANCE GUTTER LINE-TO-GUTTER LINE ALONG THE TOP OF THE EXISTING CONCRETE SLAB.

GENERAL NOTES

SPECIFICATIONS: ALL REFERENCES TO THE SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL REFERENCES TO THE AASHTO SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.

INSTALLATION PROCEDURE: SEAL THE ENDS OF THE JOINT SEAL TO PREVENT THE ENTRANCE OF WATER AND FOREIGN MATERIAL.

MATERIAL SPECIFICATIONS: JOINT SEALING MATERIAL, ONLY, IS IN ACCORDANCE WITH SECTION 807 OF THE STANDARD SPECIFICATIONS.

CLEANING: CLEAN ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

SHOP DRAWINGS: CONTRARY TO THE SPECIFICATIONS, NO SHOP PLANS ARE REQUIRED.

JOINT SETTING: TAKE MEASUREMENTS AND TEMPERATURE READINGS BEFORE 8 A.M. WHEN DETERMINING THE INSTALLATION OPENING.

THE SEALING ELEMENT SHALL BE SUPPLIED AND INSTALLED IN ONE CONTINUOUS LENGTH TO FIT THE FINAL DIMENSIONS OF THE JOINT AS IT OCCURS IN THE ROADWAY. NO FIELD SPLICES WILL BE PERMITTED.

PAYMENT UNDER "JOINT SEAL REPLACEMENT - TRANSVERSE" WILL BE CONSIDERED FULL COMPENSATION FOR THE COMPLETED AND ACCEPTED QUANTITIES FOR ALL WORK REQUIRED. SEE SHEET NO. S2.

NOTES

1. THE ORIGINAL EXPANSION JOINTS WERE REPLACED WITH STRIP SEAL EXPANSION JOINTS DURING THE RESTORE 64 RECONSTRUCTION WORK (DN 26144). THIS WORK ITEM IS TO REPLACE ALL OF THE EXISTING NEOPRENE STRIP SEAL GLANDS ALONG I-64 WB & I-64 EB. SEE TABLES FOR LOCATIONS.
2. CONTRACTOR SHALL FIELD VERIFY THE EXISTING NEOPRENE STRIP SEAL GLAND AND REPLACE IN KIND.
3. THE STEEL COMPONENTS (ARMORED EDGE, RESTRAINER BLOCK, CONCRETE STUDS AND UPTURN) ARE TO REMAIN. CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE COMPONENTS. IF A COMPONENT IS DAMAGED, THE CONTRACTOR SHALL REPLACE AT NO ADDITIONAL COST TO THE CABINET AND AT DIRECTION OF THE ENGINEER.

|   |  |  |  |
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|   |  |  |  |
| REVISION  |  | DATE                                     |  |
| DATE: AUGUST 2025   |  | CHECKED BY                               |  |
| DESIGNED BY: M BARON  |  | D BARON                                  |  |
| DETAILED BY: MJ DWYER   |  | D BARON                                  |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |  |  |
| COUNTY<br>JEFFERSON   |  |  |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I T RR TO PRESTON STREET |  |
| STRIP SEAL RETROFIT – 1   |  |  |  |
| PREPARED BY   |  | SHEET NO.                                |  |
| Michael Baker<br>INTERNATIONAL  |  | S37                                      |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                     |  |

| 17TH TO 13TH STREET JOINT SETTING |            |                           |          |         |                                     |                  |        |
|-----------------------------------|------------|---------------------------|----------|---------|-------------------------------------|------------------|--------|
| PIER                              | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |        |
|                                   |            | MIN                       | 60 DEG F | MAX     |                                     | WB               | EB     |
| 7                                 | 4"         | 7⁄8                       | 2        | 3 11⁄16 | 3⁄16"                               | 44'-4"           | 44'-4" |
| 10                                | 5"         | 3⁄4                       | 2 1⁄2    | 5 1⁄4   | 5⁄16"                               | 44'-4"           | 44'-4" |
| 14                                | 4"         | 5⁄8                       | 2        | 4 1⁄8   | 1⁄4"                                | 44'-4"           | 44'-4" |
| 17                                | 6" (*)     | 1⁄2                       | 2 3⁄4    | 6 1⁄8   | 3⁄8"                                | 44'-4"           | 44'-4" |
| 21                                | 4"         | 1⁄2                       | 2        | 4 3⁄8   | 1⁄4"                                | 44'-4"           | 44'-4" |
|                                   |            |                           |          |         |                                     |                  |        |
| END BENT                          | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (2) |        |
|                                   |            | MIN                       | 60 DEG F | MAX     |                                     |                  |        |
| 1EB                               | 4"         | 7⁄8                       | 2        | 3 11⁄16 | 3⁄16"                               | 102'-1 1⁄2"      |        |
| 1WB                               | 4"         | 7⁄8                       | 2        | 3 11⁄16 | 3⁄16"                               | 95'-0 3⁄4"       |        |

| 13TH TO 7TH STREET JOINT SETTING |            |                           |          |         |                                     |                  |
|----------------------------------|------------|---------------------------|----------|---------|-------------------------------------|------------------|
| PIER                             | STRIP SEAL | JOINT OPENING DIMENSION C |          |         | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |
|                                  |            | MIN                       | 60 DEG F | MAX     |                                     |                  |
| 25EB                             | 5"         | 3⁄4                       | 2 1⁄2    | 5 1⁄8   | 5⁄16"                               | 44'-4"           |
| 25WB                             | 4"         | 3⁄8                       | 2        | 4 7⁄16  | 1⁄4"                                | 46'-2 3⁄4"       |
| 28EB                             | 4"         | 5⁄8                       | 2        | 4 1⁄16  | 1⁄4"                                | 44'-4"           |
| 28WB                             | 4"         | 1⁄2                       | 2        | 4 1⁄4   | 1⁄4"                                | 52'-0 1⁄8"       |
| 31WB                             | 4"         | 3⁄8                       | 2        | 4 7⁄16  | 1⁄4"                                | 57'-11 3⁄4"      |
| 33EB                             | 5"         | 3⁄4                       | 2 1⁄2    | 5 3⁄16  | 5⁄16"                               | 47'-1 1⁄4"       |
| 34WB                             | 4"         | 15⁄16                     | 2        | 3 5⁄8   | 3⁄16"                               | 44'-4"           |
| 36EB                             | 4"         | 3⁄8                       | 2        | 4 7⁄16  | 1⁄4"                                | 71'-6 5⁄8"       |
| 37WB                             | 5"         | 7⁄16                      | 2 1⁄2    | 5 5⁄8   | 3⁄8"                                | 44'-4"           |
| 39EB                             | 4"         | 3⁄8                       | 2        | 4 7⁄16  | 1⁄4"                                | 45'-10 1⁄4"      |
| 41WB                             | 4"         | 1⁄2                       | 2        | 4 3⁄16  | 1⁄4"                                | 44'-4"           |
| 42EB                             | 4"         | 1 1⁄4                     | 2        | 3 3⁄16  | 1⁄8"                                | 44'-4"           |
| 44WB                             | 4"         | 7⁄8                       | 2        | 3 11⁄16 | 3⁄16"                               | 44'-4"           |
| 45EB                             | 5"         | 1 1⁄16                    | 2 1⁄2    | 5 3⁄16  | 5⁄16"                               | 44'-4"           |
| 47WB                             | 4"         | 7⁄16                      | 2        | 4 5⁄16  | 1⁄4"                                | 44'-4"           |
| 48EB                             | 4"         | 3⁄4                       | 2        | 3 15⁄16 | 3⁄16"                               | 65'-9 3⁄8"       |
| 55EB                             | 6" (*)     | 3⁄8                       | 2 1⁄2    | 5 11⁄16 | 3⁄8"                                | 54'-1 7⁄8"       |
| 55WB                             | 6" (*)     | 3⁄8                       | 2 1⁄2    | 5 11⁄16 | 3⁄8"                                | 66'-5"           |

(1) GUTTER LINE-TO-GUTTER LINE ALONG C/L EXISTING JOINT.

(2) GUTTER LINE-TO-GUTTER LINE ALONG EXISTING FRONT FACE BACKWALL.

(3) FABRICATE THE STRIP SEAL TO ACCOMMODATE THE DISTANCE GUTTER LINE-TO-GUTTER LINE ALONG THE TOP OF THE EXISTING CONCRETE SLAB.

(\*) PIER 17 WB/EB JOINTS AND PIER 55 WB/EB JOINTS STRIP SEAL GLAND REPLACEMENT:  
EITHER A 4 INCH OR A 5 INCH GLAND REPLACEMENT IS APPLICABLE FOR THE MAJORITY OF STRIP SEAL EXPANSION DAMS. THE A2R-XTRA SEAL IS THE ONLY ALTERNATE NEOPRENE EXPANSION DAM SEAL (SEE STRIP SEAL RETROFIT - 1) THAT WOULD BE APPLICABLE TO THE 6 INCH MAXIMUM OPENING REQUIRED AT THESE LOCATIONS.

| JOINT SEAL REPLACEMENT - TRANSVERSE |          |          |          |       |
|-------------------------------------|----------|----------|----------|-------|
| JOINT SIZE                          | 4" JOINT | 5" JOINT | 6" JOINT | TOTAL |
| UNIT                                | LF       | LF       | LF       | LF    |
| K & IT RR TRESTLE (056B00284)       | 621      | 89       |          | 710   |
| K & IT RR & 27TH ST (056B00283)     | 355      |          |          | 355   |
| NW PKWY & 22ND ST (056B00282)       | 662      |          |          | 662   |
| 17TH TO 13TH ST (056B00285)         | 464      | 89       | 89       | 642   |
| 13TH TO 7TH ST (056B00293)          | 606      | 181      | 121      | 908   |
| 7TH TO 2ND ST (056B00292)           | 623      | 178      |          | 801   |
| 3RD TO PRESTON ST (056B00142)       | 486      | 495      |          | 981   |
| TOTALS                              | 3817     | 1032     | 210      | 5059  |

| 7TH TO 2ND STREET JOINT SETTING |            |                           |          |          |                                     |                  |            |
|---------------------------------|------------|---------------------------|----------|----------|-------------------------------------|------------------|------------|
| PIER                            | STRIP SEAL | JOINT OPENING DIMENSION C |          |          | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |            |
|                                 |            | MIN                       | 60 DEG F | MAX      |                                     | WB               | EB         |
| 58                              | 4"         | 1⁄2"                      | 2"       | 4 1⁄4"   | 1⁄4"                                | 44'-4"           | 46'-7 3⁄8" |
| 61                              | 4"         | 1 1⁄4"                    | 2"       | 3 1⁄8"   | 1⁄8"                                | 44'-4"           | 44'-4"     |
| 64                              | 4"         | 7⁄8"                      | 2"       | 3 11⁄16" | 3⁄16"                               | 44'-4"           | 44'-4"     |
| 67                              | 4"         | 1 1⁄4"                    | 2"       | 3 1⁄8"   | 1⁄8"                                | 44'-4"           | 44'-4"     |
| 68                              | 4"         | 1 1⁄4"                    | 2"       | 3 1⁄8"   | 1⁄8"                                | 44'-4"           | 44'-4"     |
| 71                              | 4"         | 1 5⁄8"                    | 2"       | 2 9⁄16"  | 1⁄16"                               | 44'-4"           | 44'-4"     |
| 72                              | 4"         | 7⁄8"                      | 2"       | 3 11⁄16" | 3⁄16"                               | 44'-4"           | 44'-4"     |
| 76                              | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 44'-4"           | 44'-4"     |
| 80                              | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 44'-4"           | 44'-4"     |

(1) GUTTER LINE-TO-GUTTER LINE ALONG C/L EXISTING JOINT.

(2) GUTTER LINE-TO-GUTTER LINE ALONG EXISTING FRONT FACE BACKWALL.

(3) FABRICATE THE STRIP SEAL TO ACCOMMODATE THE DISTANCE GUTTER LINE-TO-GUTTER LINE ALONG THE TOP OF THE EXISTING CONCRETE SLAB.

| 3RD TO PRESTON STREET JOINT SETTING |            |                           |          |          |                                     |                  |                 |
|-------------------------------------|------------|---------------------------|----------|----------|-------------------------------------|------------------|-----------------|
| PIER                                | STRIP SEAL | JOINT OPENING DIMENSION C |          |          | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |                 |
|                                     |            | MIN                       | 60 DEG F | MAX      |                                     | WB               | EB              |
| 3R                                  | 4"         | 1⁄2"                      | 2"       | 4 1⁄4"   | 1⁄4"                                | ---              | 25'-0"          |
| 8R                                  | 4"         | 1⁄8"                      | 2"       | 4 15⁄16" | 5⁄16"                               | ---              | 25'-0"          |
| RB3                                 | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 30'-0"           | ---             |
| RB7                                 | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 30'-0"           | ---             |
| 109                                 | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 43'-0"           | 43'-0"          |
| 112                                 | 4"         | 1 1⁄4"                    | 2"       | 3 1⁄8"   | 1⁄8"                                | 83'-9 3⁄8"       | 43'-0"          |
| 115                                 | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 53'-0"           | 43'-0"          |
| 119                                 | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | 53'-0"           | 43'-0"          |
| 124EB                               | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | ---              | 73'-5 7⁄8" (2)  |
| 128EB                               | 5"         | 5⁄8"                      | 2 1⁄2"   | 5 5⁄16"  | 5⁄16"                               | ---              | 82'-7 1⁄4" (2)  |
| 131EB                               | 4"         | 1 1⁄4"                    | 2"       | 3 1⁄8"   | 1⁄8"                                | ---              | 115'-7 3⁄8" (2) |
| 123WB                               | 4"         | 1⁄2"                      | 2"       | 4 1⁄4"   | 1⁄4"                                | 54'-0"           | ---             |
| 127WB                               | 4"         | 1⁄2"                      | 2"       | 4 1⁄4"   | 1⁄4"                                | 54'-0"           | ---             |
| 130WB                               | 4"         | 1 1⁄32"                   | 2"       | 3 9⁄32"  | 5⁄32"                               | 54'-7 3⁄8"       | ---             |
|                                     |            |                           |          |          |                                     |                  |                 |
| END BENT                            | STRIP SEAL | JOINT OPENING DIMENSION C |          |          | INCREMENT PER 10 DEG F RISE OR FALL | JOINT LENGTH (1) |                 |
|                                     |            | MIN                       | 60 DEG F | MAX      |                                     | WB               | EB              |
| B                                   | 4"         | 1 5⁄8"                    | 2"       | 2 3⁄16"  | 1⁄16"                               | 30'-0"           | ---             |

(1) GUTTER LINE-TO-GUTTER LINE DIMENSION ALONG C/L EXISTING JOINT. THE STRIP SEAL JOINT SHALL BE FABRICATED TO FIT THE DISTANCE BETWEEN GUTTER LINES AT THE TOP OF THE EXISTING CONCRETE.

(2) FIELD VERIFY LENGTH OF JOINTS IN WIDENED SECTION BEFORE ORDERING MATERIAL.

NOTES

1. FOR NOTES AND DETAILS, SEE SHEET NO. S37.

|   |  |                      |
|---|--|----------------------|
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| REVISION  |  | DATE                 |
| DATE: AUGUST 2025   |  | CHECKED BY           |
| DESIGNED BY: M BARON  |  | D BARON              |
| DETAILED BY: MJ DWYER   |  | D BARON              |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                      |
| COUNTY<br>JEFFERSON   |  |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |                      |
| STRIP SEAL RETROFIT - 2   |  |                      |
| PREPARED BY   |  | SHEET NO.            |
| Michael Baker INTERNATIONAL   |  | S38                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |

| ITEM NUMBER |
|-------------|
| 5-10016     |

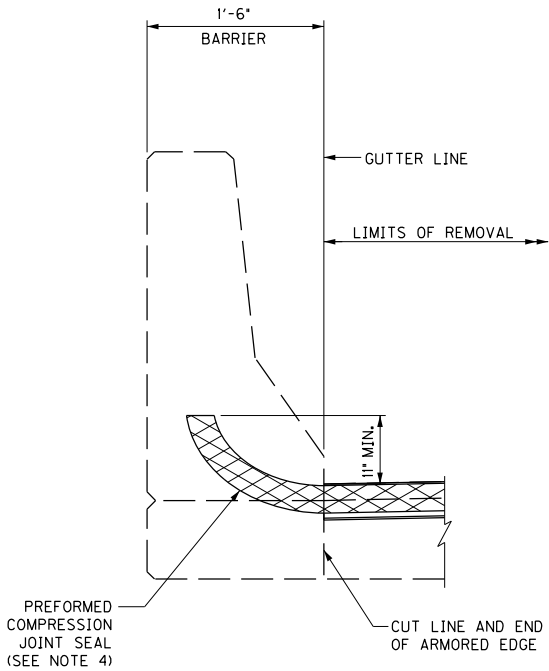
FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM\DWYER

USER: MaryJo.Dwyer

DATE PLOTTED: November 29, 2023

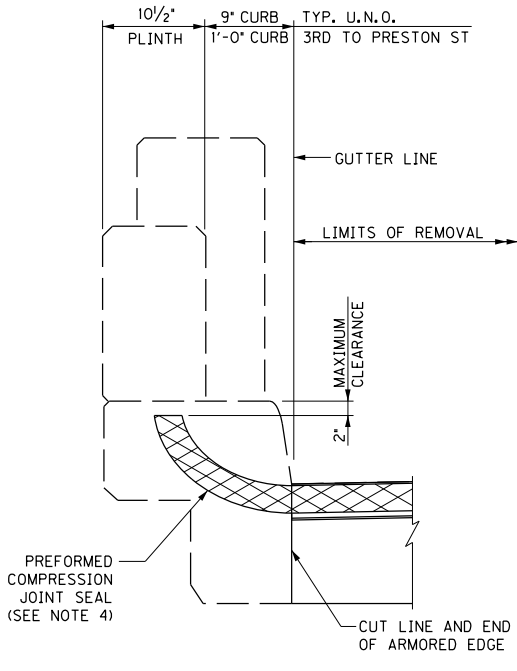
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MicroStation v10.17.01.58



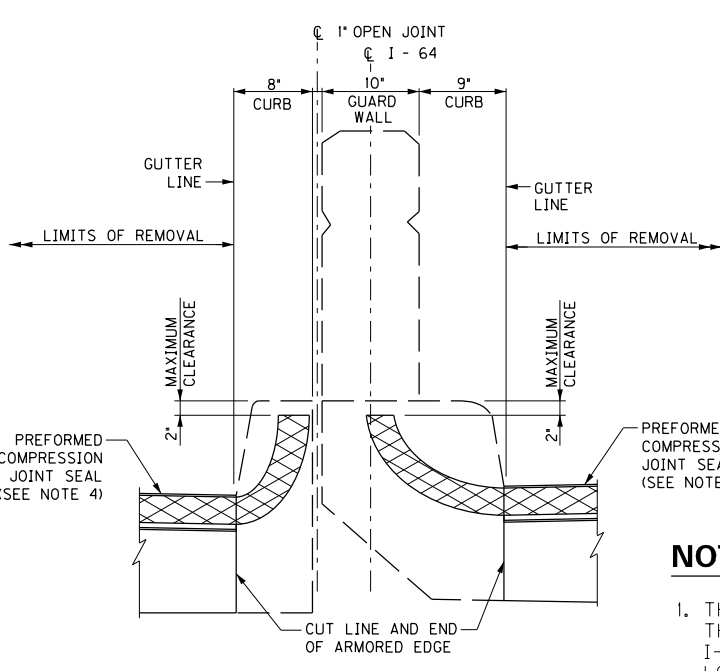
### SECTION THROUGH BARRIER

LOOKING AT BRIDGE  
EB 101W & EB 101E



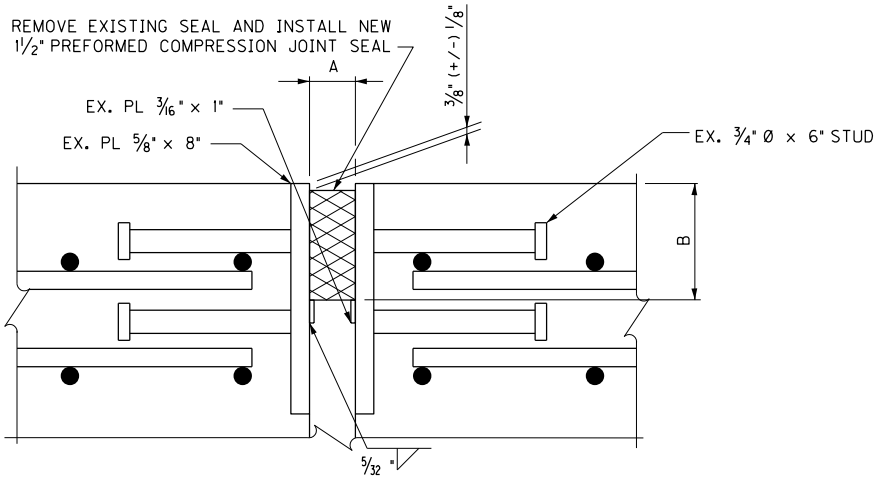
### SECTION THROUGH FASCIA

LOOKING AT BRIDGE  
TYP. U.N.O.



### SECTION THROUGH MEDIAN

LOOKING AT BRIDGE  
K & IT RR TRESTLE  
K & IT RR & 27TH STREET  
NORTHWESTERN PKWY & 22ND ST

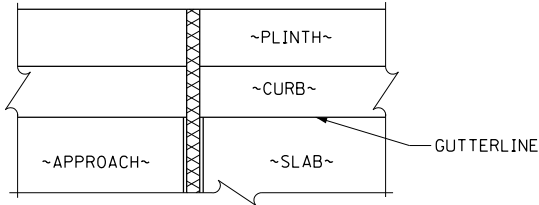


### SECTION THROUGH COMPRESSION SEAL JOINT

\*A\* - MINIMUM JOINT OPENING @ 60°F  
\*B\* - MANUFACTURER'S COMPRESSED SEAL HEIGHT 1/4"

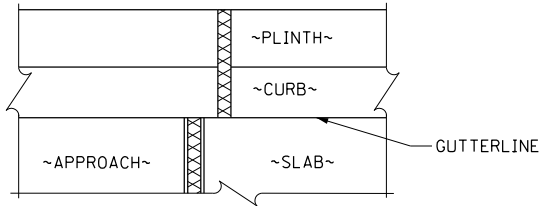
| JOINT DATA               |                  |
|--------------------------|------------------|
| Dim. A<br>@ 60°F<br>(in) | Movement<br>(in) |
| 1 1/2                    | 1                |
| 2                        | 1 1/2            |
| 2 1/2                    | 2                |

TEMPERATURE CHANGE INCREMENT 1/16" PER 10° F.



### DETAIL AT FASCIA

K & IT RR TRESTLE  
K & IT RR & 27TH STREET  
NORTHWESTERN PKWY & 22ND ST  
3RD TO PRESTON STREET, EB 101WB & EB 101EB  
DETAIL AT MEDIAN SIMILAR



### DETAIL AT FASCIA

3RD TO PRESTON STREET  
FRAME 3 AND EB B

### NOTES

- THIS WORK ITEM IS TO REPLACE ALL OF THE EXISTING COMPRESSION SEALS ALONG I-64 WB & I-64 EB. SEE TABLES FOR LOCATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE EXISTING COMPRESSION SEAL AND REPLACE IN KIND.
- THE STEEL COMPONENTS (ARMORED EDGE, RESTRAINER BLOCK, CONCRETE STUDS AND UPTURN) ARE TO REMAIN. CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE COMPONENTS. IF A COMPONENT IS DAMAGED, THE CONTRACTOR SHALL REPLACE AT NO ADDITIONAL COST TO THE CABINET AND AT DIRECTION OF THE ENGINEER.
- NEW SEAL IS TO BE SPLICED TO THE EXISTING SEAL IN THE FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE SPLICE MUST BE WATERTIGHT.
- PAYMENT UNDER "JOINT SEAL REPLACEMENT - TRANSVERSE" WILL BE CONSIDERED FULL COMPENSATION FOR THE COMPLETED AND ACCEPTED QUANTITIES FOR ALL WORK REQUIRED. SEE SHEET NO. S2.

### JOINT SEAL REPLACEMENT – TRANSVERSE

| COMPRESSION JOINT SUMMARY       | TOTAL |
|---------------------------------|-------|
| UNIT                            | LF    |
| K & IT RR TRESTLE (056B00284)   | 89    |
| K & IT RR & 27TH ST (056B00283) | 89    |
| NW PKWY & 22ND ST (056B00282)   | 355   |
| 17TH TO 13TH ST (056B00285)     |       |
| 13TH TO 7TH ST (056B00293)      |       |
| 7TH TO 2ND ST (056B00292)       |       |
| 3RD TO PRESTON ST (056B00142)   | 306   |
| TOTALS                          | 839   |

### K & IT RR TRESTLE COMPRESSION JOINTS

| END BENT | JOINT LENGTH (1) |
|----------|------------------|
| 1WB      | 44'-4"           |
| 1EB      | 44'-4"           |

### K & IT RR AND 27TH STREET COMPRESSION JOINTS

| END BENT | JOINT LENGTH (1) |
|----------|------------------|
| 1WB      | 44'-4"           |
| 1EB      | 44'-4"           |

### NORTHWESTERN PKWY & 22ND ST COMPRESSION JOINTS

| PIER | JOINT LENGTH (1) |
|------|------------------|
| 1EB  | 61'-0 5/8"       |
| 1WB  | 73'-8"           |
| 7EB  | 67'-6 7/8"       |
| 7WB  | 82'-9 13/16"     |
| R1   | 45'-3 1/2"       |

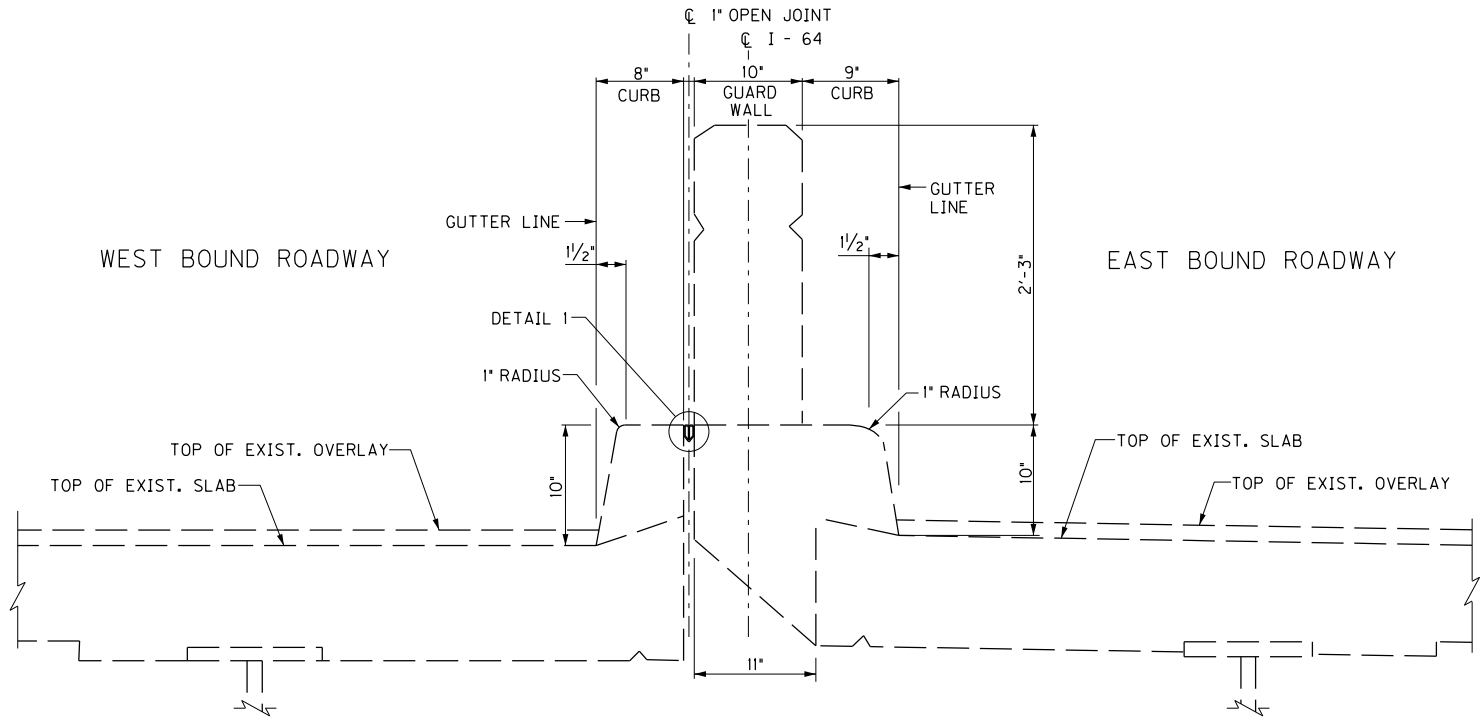
| END BENT | JOINT LENGTH (1) |
|----------|------------------|
| RB       | 24'-0"           |

### 3RD TO PRESTON STREET COMPRESSION JOINTS

| PIER     | JOINT LENGTH (1) |
|----------|------------------|
| FRAME 3  | 30'-0"           |
| END BENT | JOINT LENGTH     |
| B        | 30'-0" (1)       |
| I        | 25'-0" (1)       |
| 101WB    | 86'-8 7/8" (2)   |
| 101EB    | 133'-7 5/8" (2)  |

- (1) GUTTER LINE-TO-GUTTER LINE DIMENSION ALONG EXISTING C JOINT. THE COMPRESSION JOINT SHALL BE FABRICATED TO FIT THE DISTANCE BETWEEN GUTTER LINES AT THE TOP OF THE OVERLAY.
- (2) GUTTER LINE-TO-GUTTER LINE DIMENSION ALONG EXISTING C JOINT COMPRISED OF THE ORIGINAL CONSTRUCTION PLUS WIDENINGS.

|   |  |                      |
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|   |  |                      |
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| REVISION  |  | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                               |                      |
| DESIGNED BY: M BARON  | D BARON                                  |                      |
| DETAILED BY: MJ DWYER   | D BARON                                  |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                      |
| COUNTY<br>JEFFERSON   |  |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I T RR TO PRESTON STREET |                      |
| COMPRESSION SEAL RETROFIT   |  |                      |
| PREPARED BY   |  | SHEET NO.<br>S39     |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |



**EXISTING MEDIAN TYPICAL SECTION**

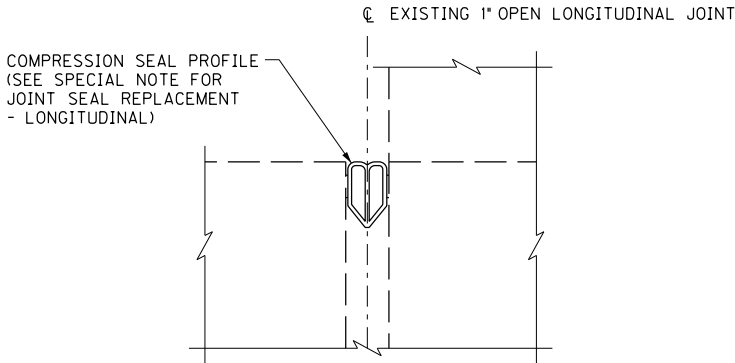
7TH TO 2ND STREET SHOWN  
OTHER BRIDGE SECTIONS SIMILAR

| I-64 LONGITUDINAL JOINT RETROFIT ESTIMATED WORK LIMITS |              |  |
|--|--------------|--|
| BRIDGE UNIT  | JOINT LENGTH | STATION WORK LIMITS  |
| K&IT RR & 27TH ST (056B00283)                          | 182 FT       | STA 109+25.00 (PIER 2) TO STA 111+07.00 (PIER 4)           |
| 17TH TO 13TH ST (056B00285)                            | 2110 FT      | STA 173+92.57 (PIER 4) TO STA 195+02.50 (PIER 25)          |
| 13TH TO 7TH ST (056B00293)                             | 1345 FT      | STA 195+02.50 (PIER 25) TO STA 208+46.62 (END OF 1" JOINT) |
|  | 227 FT       | P.T. STA 218+86.61 TO STA 221+12.86 BK (PIER 55)           |
| 7TH TO 2ND ST (056B00292)                              | 2653 FT      | STA 221+12.65 AH (PIER 55) TO STA 247+65.44 (PIER 83)      |
| 2ND ST TO PRESTON ST (056B00142) (#)                   | 1266 FT      | STA 247+65.44 (PIER 83) TO STA 260+25.85 (PIER 122)        |

(\*)FOR MEDIAN AREA FROM PIER 109 TO PIER 122, SEE DN 19238 SHEETS 55 & 56.

CLEAN ALL DEBRIS, TRASH AND SOIL DEPOSITS IN THE MEDIAN AREA OUTLINED BY THE WB PARAPET AND EB PARAPET. CLEANING SHALL BE DONE BEFORE INSTALLING THE LONGITUDINAL JOINT SEAL.

INCLUDE LABOR, EQUIPMENT, DISPOSAL AND CONSTRUCTION OPERATIONS TO COMPLETE THIS WORK IN THE BID ITEM MOST APPROPRIATE FOR THE WORK INVOLVED.



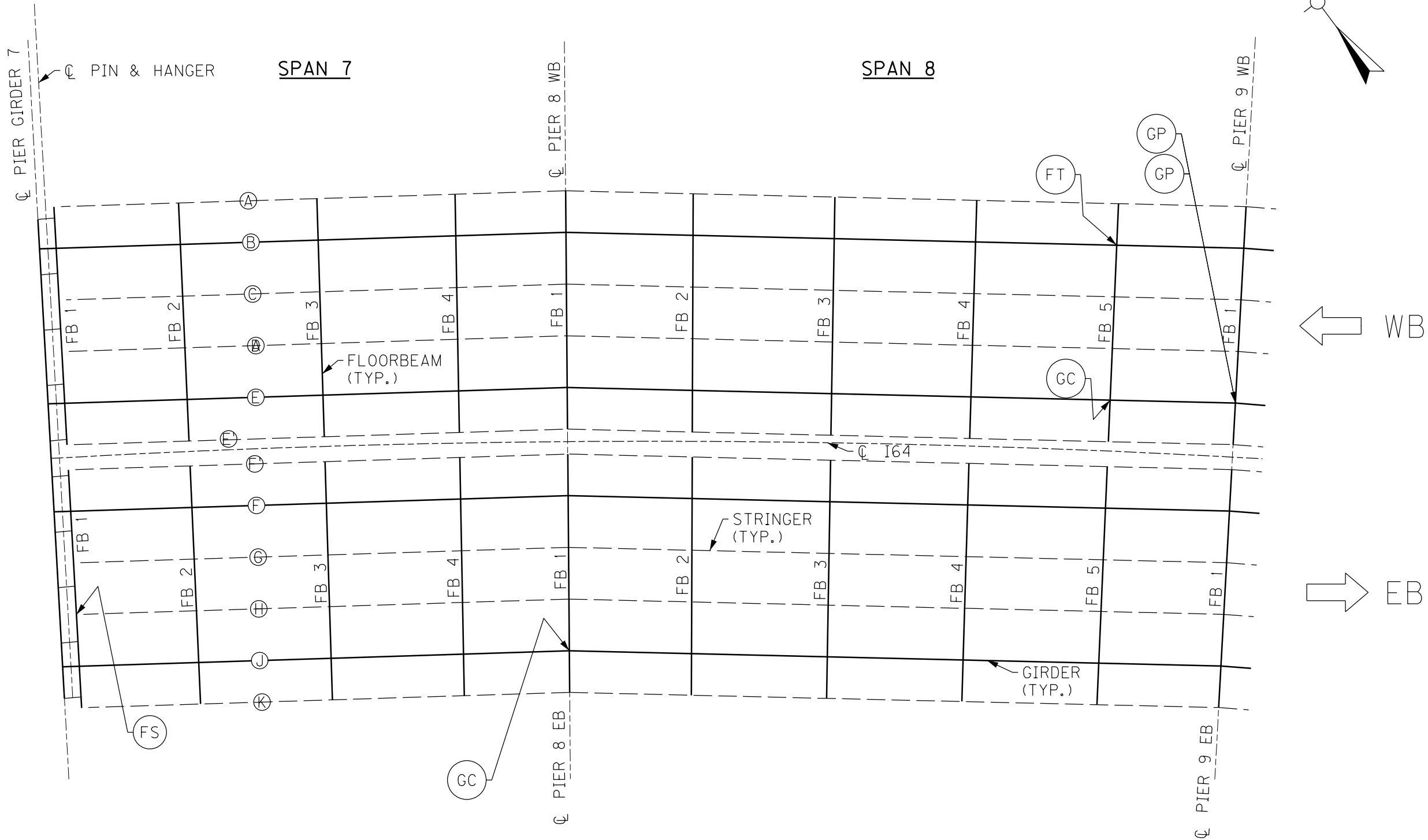
**DETAIL 1**

**NOTES**

1. SEE SHEET NOS. S9 AND S11 - S14 FOR LOCATION OF LONGITUDINAL JOINT RETROFIT.

| ITEM NUMBER | PREPARED BY                            |   | SHEET NO.                   |
|-------------|--|---|-----------------------------|
|             | <div>Michael Baker International</div> |   | <div>S40</div>              |
| 5-10016     |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | DRAWING NO.<br><b>28870</b> |

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| REVISION   |  | DATE |
| DATE: AUGUST 2025                                  | CHECKED BY                               |      |
| DESIGNED BY: M BARON                               | D BARON                                  |      |
| DETAILED BY: MJ DWYER                              | D BARON                                  |      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |      |
| COUNTY<br>JEFFERSON                                |  |      |
| ROUTE<br>I-64                                      | CROSSING<br>K & I T RR TO PRESTON STREET |      |
| LONGITUDINAL JOINT RETROFIT                        |  |      |



PARTIAL FRAMING PLAN

17TH TO 13TH ST BRIDGE

BRIDGE – B285

| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.                   |
|-------------|--|---|--|-----------------------------|
| 5-10016     |  | <b>Michael Baker</b><br>INTERNATIONAL   |  | <b>S41</b>                  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com |  | DRAWING NO.<br><b>28870</b> |

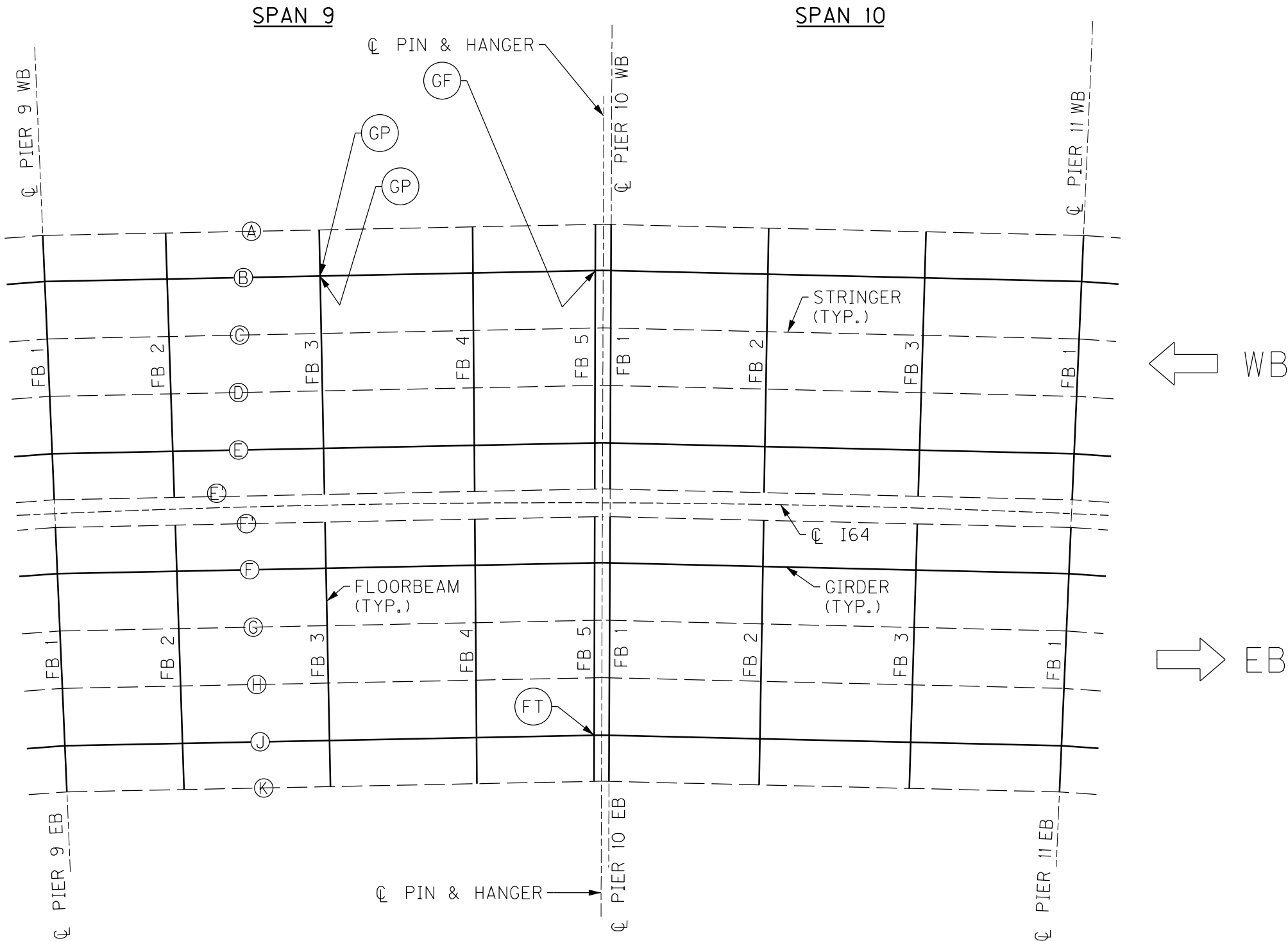
LEGEND

- BB = CRACK IN THE VERTICAL SEAL WELD TO THE BOX GIRDER WEB AT THE BOTTOM FLANGE SPLICE PLATE
- BS1 = CRACK IN THE WELD AT THE BOTTOM OF STIFFENER INSIDE OF BOX GIRDER
- BS2 = CRACK IN THE WELD AT THE TOP OF THE STIFFENER INSIDE OF BOX GIRDER
- CB = CRACK IN CROSS GIRDER WEB AT BOTTOM FLANGE TERMINATION
- CC = CRACK IN BOLT HOLES OF CONNECTION PLATE TO CROSS GRIDER WEB
- CF = CRACK AT BOTTOM FLANGE SPLICE PLATE WELD CONNECTION TO CROSS GIRDER WEB
- CS = CRACK IN TRANSVERSE STIFFENER TO CROSS GRIDER WEB
- CX1 = CRACK AT BOTTOM CONNECTION PLATE TO CROSS GIRDER WEB
- CX2 = CRACK AT BOTTOM CONNECTION PLATE TO CROSS GIRDER WEB
- FB = CRACK IN FLOORBEAM WEB AT BOTTOM FLANGE TERMINATION
- FP = CRACK IN WELD AT BOTTOM FLANGE FLOORBEAM TO FLOORBEAM CONNECTION PLATE
- FS = CRACK AT TOP OF TRANSVERSE STIFFENER TO FLOORBEAM WEB
- FT = CRACK IN FLOORBEAM WEB AT TOP FLANGE TERMINATION
- GC = CRACK AT FLOORBEAM FLANGE CONNECTION PLATE TO GIRDER WEB
- GF = CRACK AT FLOORBEAM TOP FLANGE CONNECTION PLATE TO GIRDER WEB VERTICAL CONNECTION PLATE WELD
- GP = BASE METAL CRACK IN WEB SLOT OF GIRDER WEB AT THE TIE PLATE
- MB1 = MISSING BOLTS IN GUSSET CONNECTION PLATE
- MB2 = MISSING BOLTS IN GIRDER END CONNECTION PLATE TO THE CROSS GIRDER WEB

NOTES

- FOR FS CRACK RETROFIT, SEE SHEET NO. S90.
- FOR FT CRACK RETROFIT, SEE SHEET NO. S90.
- FOR GC CRACK RETROFIT, SEE SHEET NO. S89.
- FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

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|   |   |                      |
| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 1   |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S41                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

17TH TO 13TH ST BRIDGE

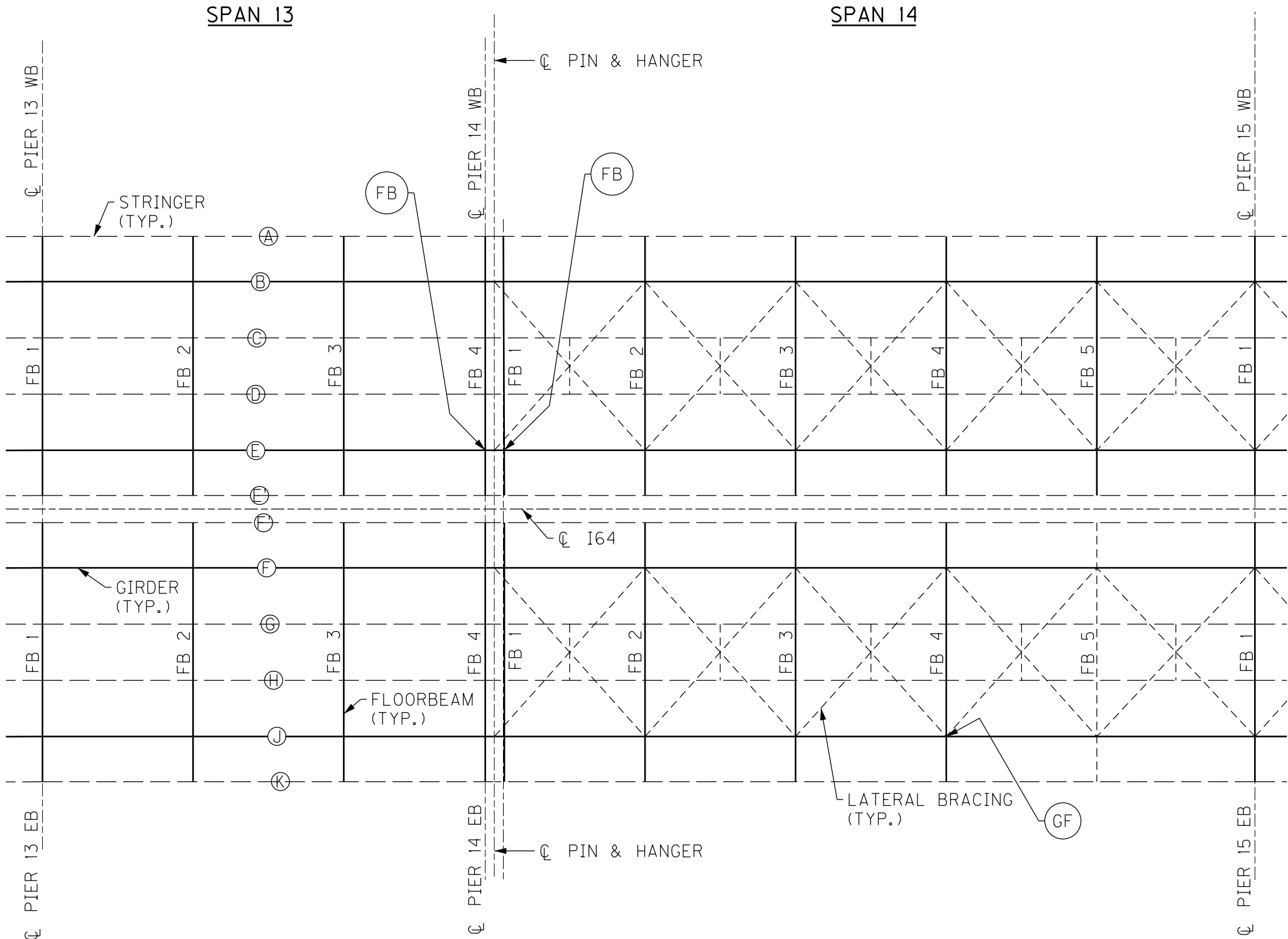
BRIDGE - B285

| ITEM NUMBER |
|-------------|
| 5-10016     |

**NOTES**

- FOR FT CRACK RETROFIT, SEE SHEET NO. S90.
- FOR GF CRACK RETROFIT, SEE SHEET NO. S89.
- FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT - 2   |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker INTERNATIONAL   |   | S42                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

- NOTES**
1. FOR FB CRACK RETROFIT, SEE SHEET NO. S90.
  2. FOR GF CRACK RETROFIT, SEE SHEET NO. S89.

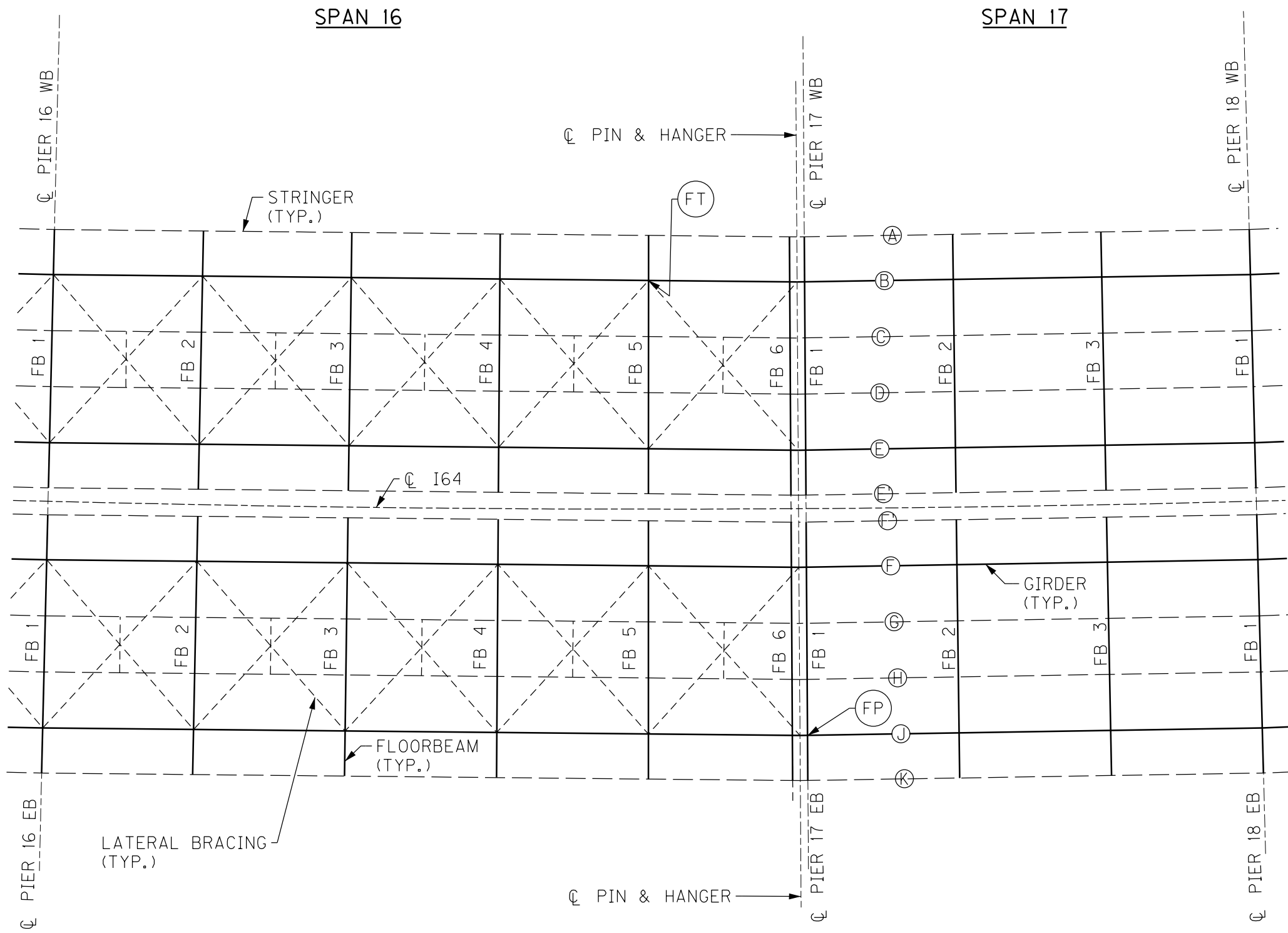
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| REVISION  |  | DATE                                      |  |
| DATE: AUGUST 2025   |  | CHECKED BY                                |  |
| DESIGNED BY: L CLARK  |  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   |  | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE RETROFIT LAYOUT - 3   |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |  | S43                                       |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                      |  |

BRIDGE - B285

ITEM NUMBER

5-10016

17TH TO 13TH ST BRIDGE



PARTIAL FRAMING PLAN

BRIDGE - B285

17TH TO 13TH ST BRIDGE

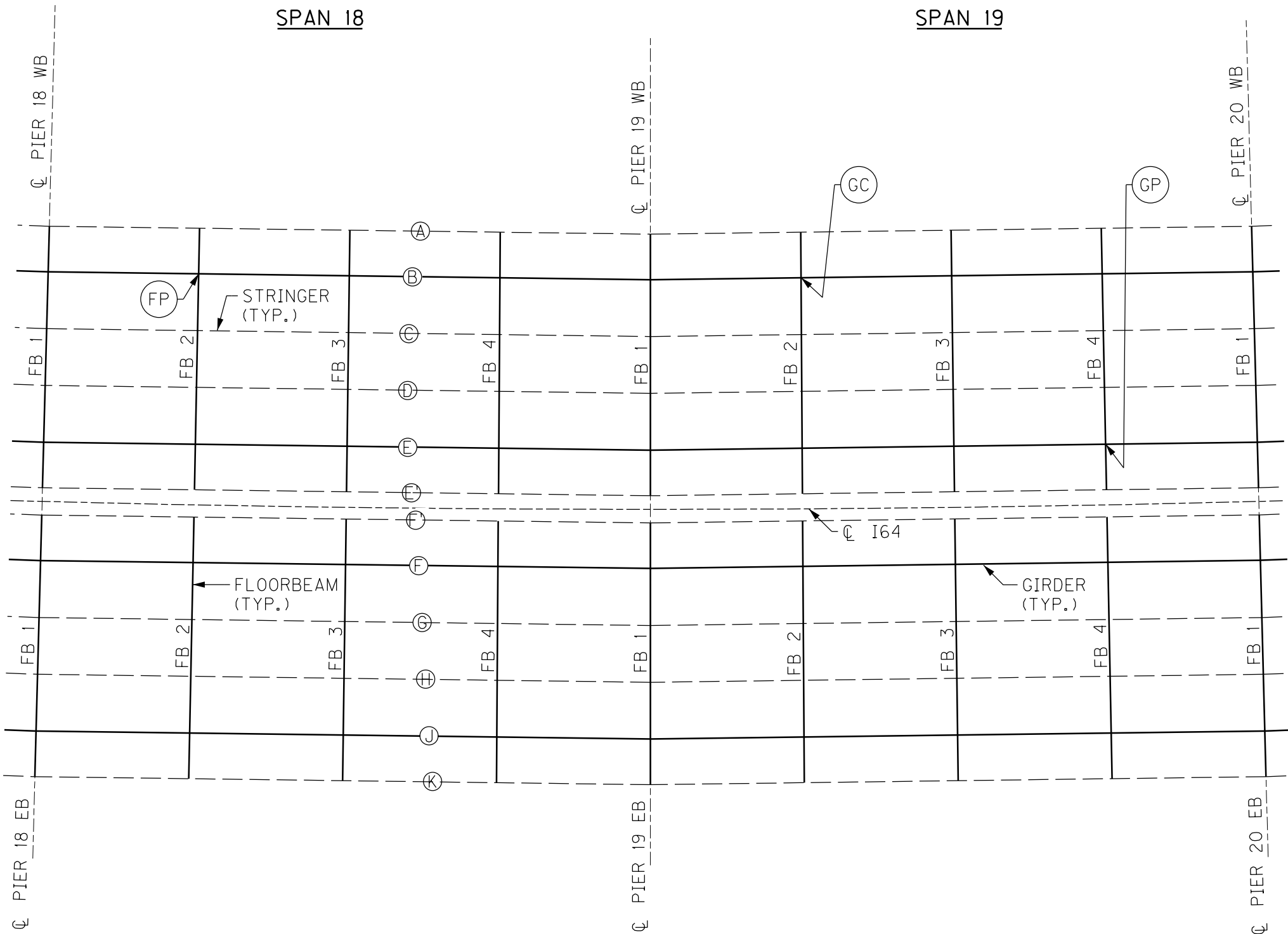
| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.                   |
|-------------|--|---|--|-----------------------------|
| 5-10016     |  | <b>Michael Baker</b><br>INTERNATIONAL   |  | <b>S44</b>                  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br><b>28870</b> |

NOTES

1. FOR FT CRACK RETROFIT, SEE SHEET NO. S90.
2. FOR FP CRACK RETROFIT, SEE SHEET NO. S90.

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| REVISION  |   | DATE                                     |
| DATE: AUGUST 2025   | CHECKED BY                                |  |
| DESIGNED BY: L CLARK  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |  |
| COUNTY<br>JEFFERSON   |   |  |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE RETROFIT LAYOUT - 4   |   |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |   | SHEET NO.<br>S44<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   |  |





PARTIAL FRAMING PLAN

17TH TO 13TH ST BRIDGE

BRIDGE - B285

| ITEM NUMBER |
|-------------|
| 5-10016     |

**NOTES**

- FOR FP CRACK RETROFIT, SEE SHEET NO. S90.
- FOR GC CRACK RETROFIT, SEE SHEET NO. S89.
- FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

|   |   |                      |
|---|---|----------------------|
| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT - 5   |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker INTERNATIONAL   |   | S45                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

17TH TO 13TH ST BRIDGE

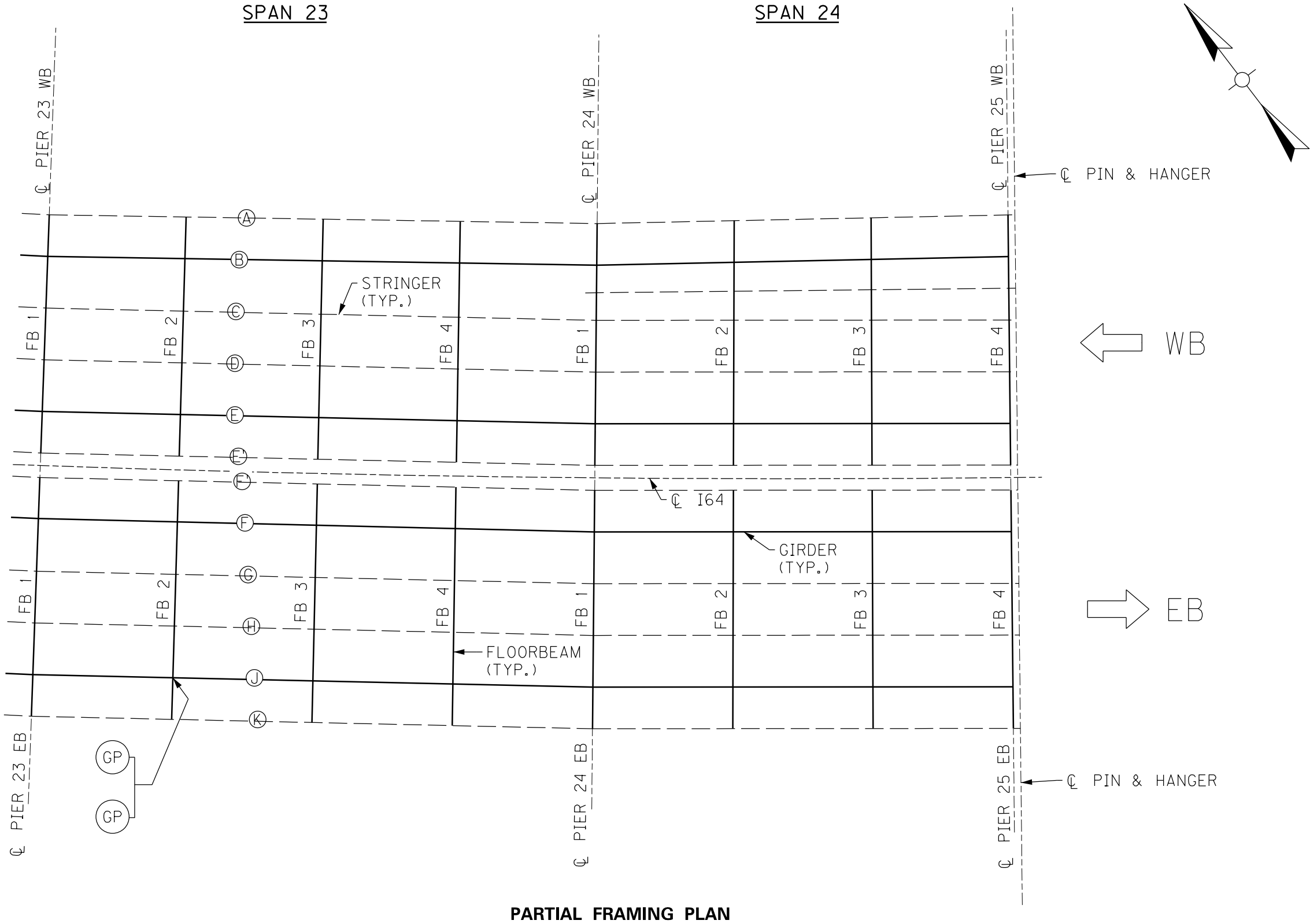
BRIDGE - B285

| ITEM NUMBER |
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| 5-10016     |

NOTES

1. FOR FS CRACK RETROFIT, SEE SHEET NO. S90.

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|---|---|----------------------|
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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT - 6   |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |   | S46                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

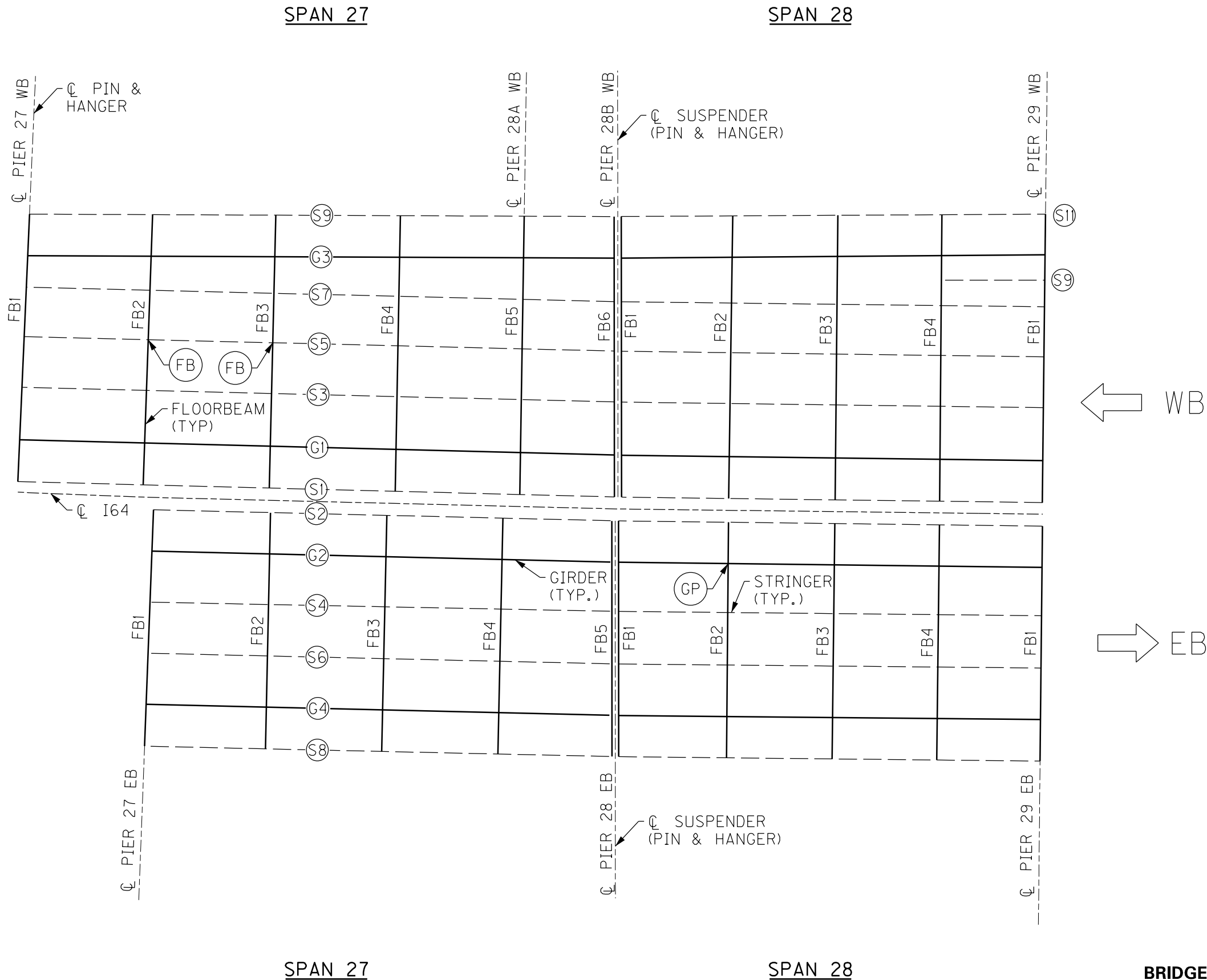
NOTES

1. FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT - 7   |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S47                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

BRIDGE - B285

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| ITEM NUMBER |
| 5-10016     |



PARTIAL FRAMING PLAN

13TH TO 7TH ST BRIDGE

BRIDGE - B293

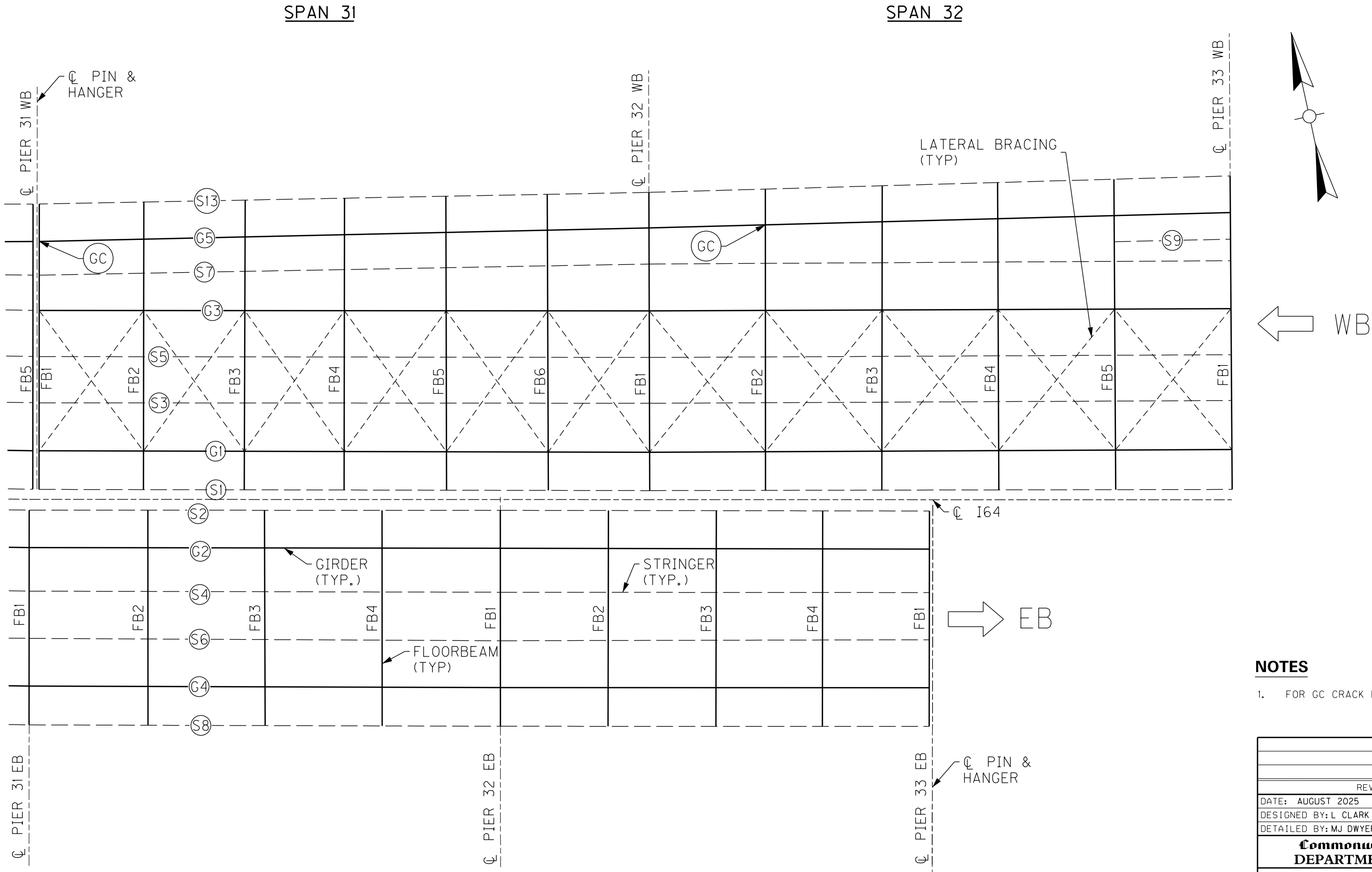
| ITEM NUMBER |
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| 5-10016     |

NOTES

1. FOR FB CRACK RETROFIT, SEE SHEET NO. S90.

2. FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT - 8   |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker International   |   | S48                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



NOTES

1. FOR GC CRACK RETROFIT, SEE SHEET NO. S89.

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| REVISION  |  | DATE                                      |  |
| DATE: AUGUST 2025   |  | CHECKED BY                                |  |
| DESIGNED BY: L CLARK  |  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   |  | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE RETROFIT LAYOUT - 9   |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| <div>Michael Baker</div> INTERNATIONAL  |  | S49                                       |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                      |  |

BRIDGE - B293

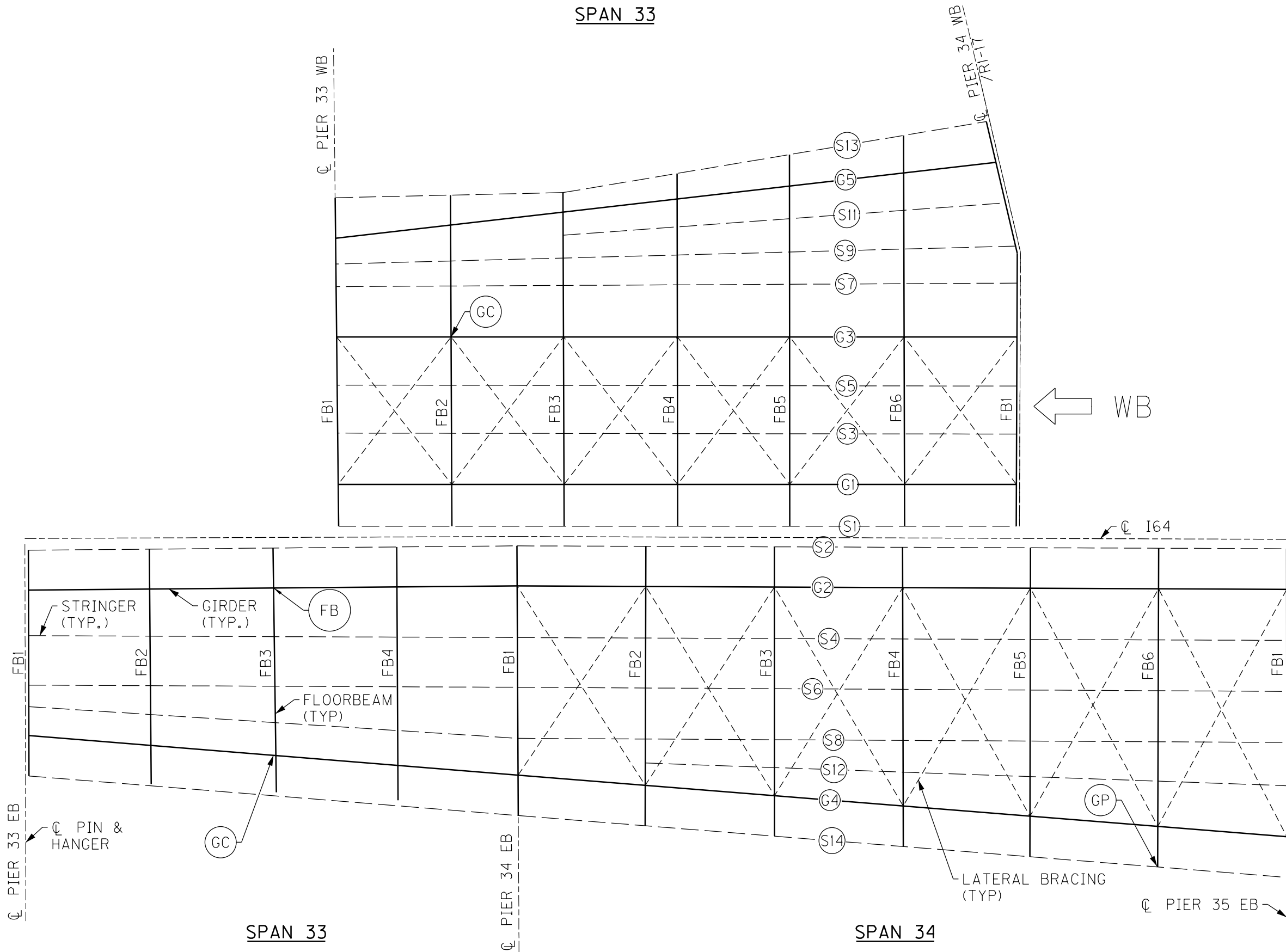
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| 5-10016     |  |

13TH TO 7TH ST BRIDGE

PARTIAL FRAMING PLAN

SPAN 31

SPAN 32



PARTIAL FRAMING PLAN

BRIDGE - B293

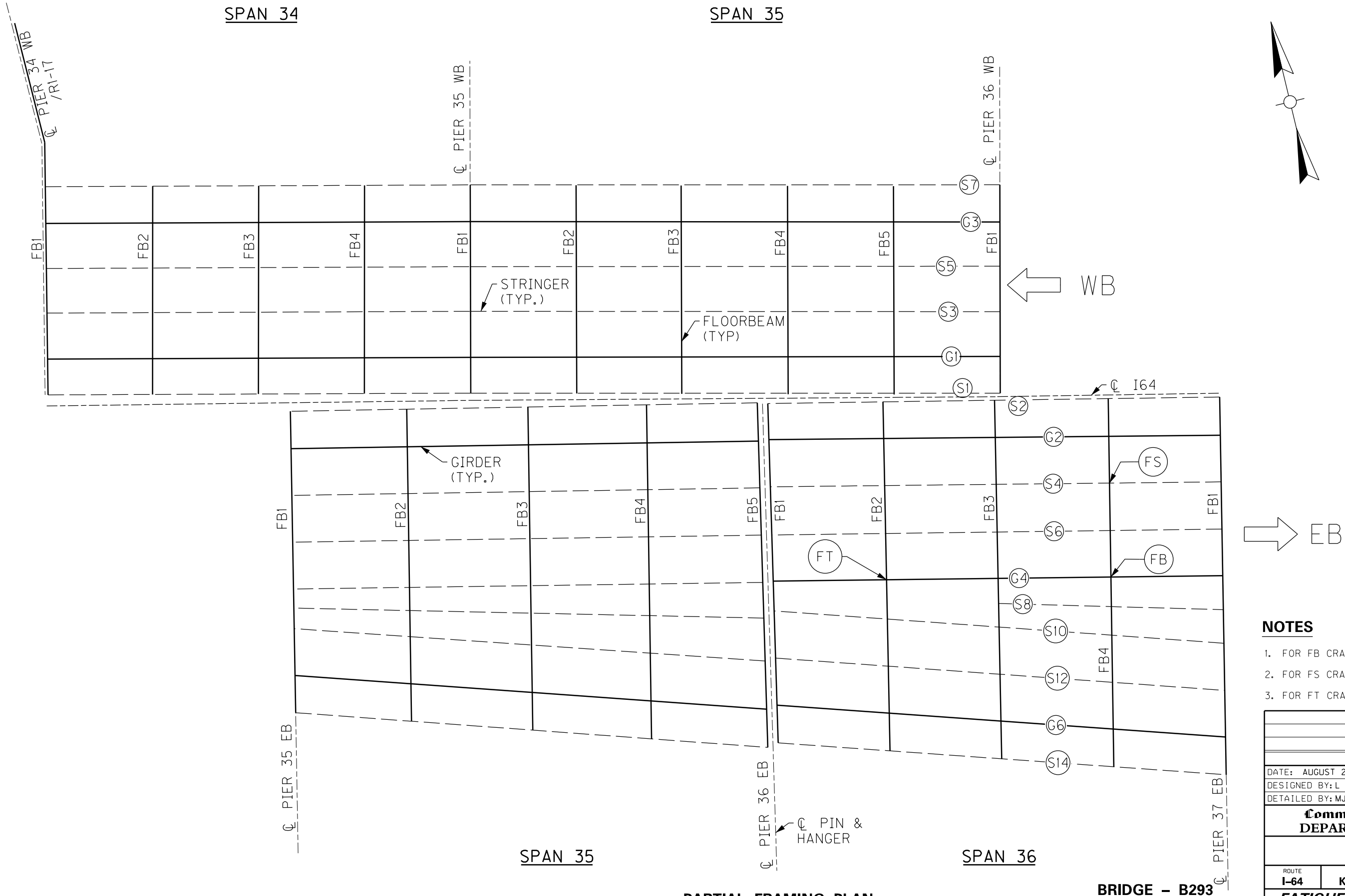
13TH TO 7TH ST BRIDGE

| ITEM NUMBER |
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| 5-10016     |

NOTES

1. FOR FB CRACK RETROFIT, SEE SHEET NO. S90.
2. FOR GC CRACK RETROFIT, SEE SHEET NO. S89.
3. FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

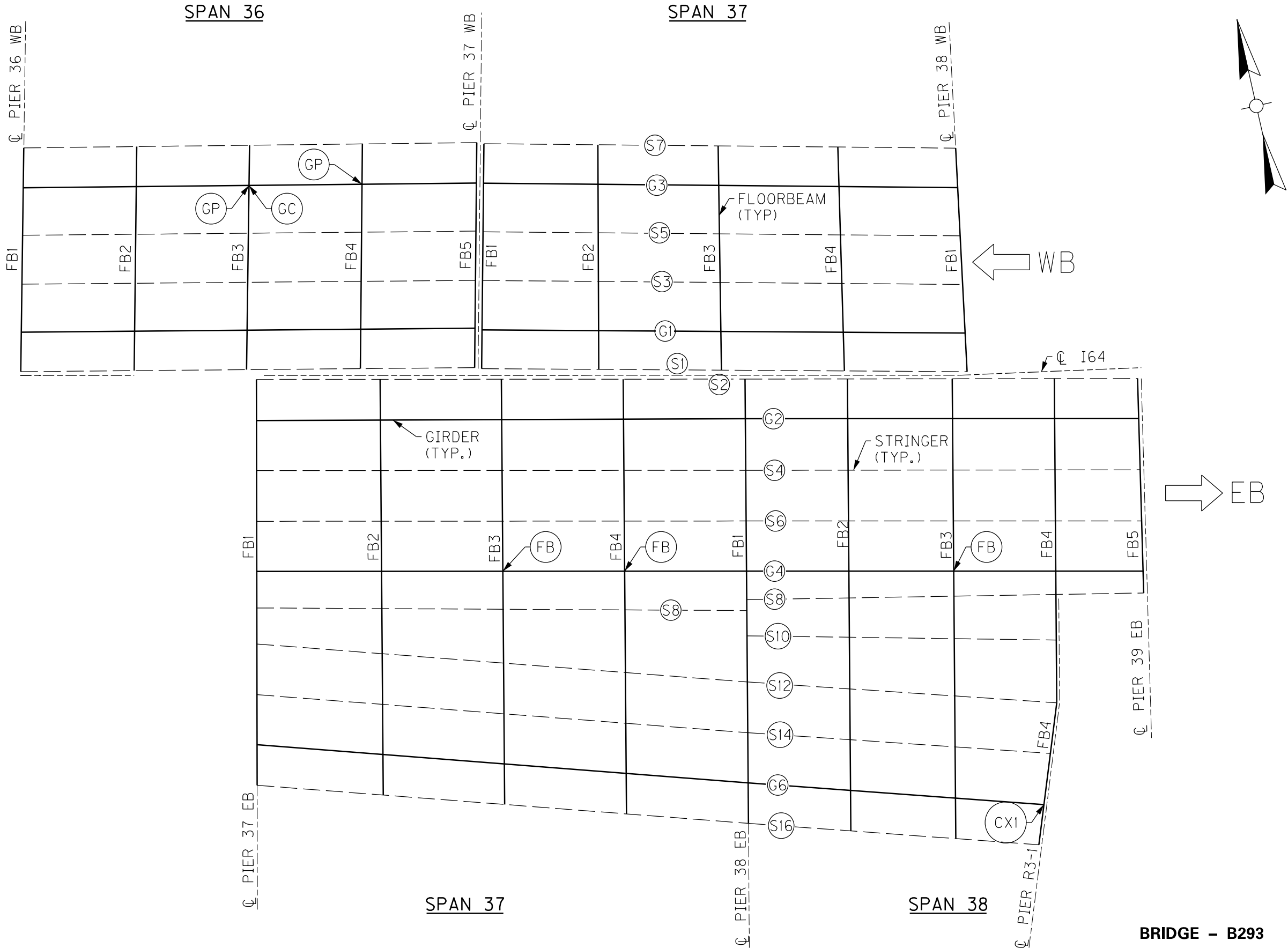
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| REVISION   |  | DATE  |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY  |  |
| DESIGNED BY: L CLARK                               |  | M BARON   |  |
| DETAILED BY: MJ DWYER                              |  | M BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I TT RR TO PRESTON STREET   |  |
| FATIGUE RETROFIT LAYOUT – 10                       |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| Michael Baker                                      |  | S50   |  |
| INTERNATIONAL                                      |  | DRAWING NO.<br>28870  |  |
|  |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |



## NOTES

1. FOR FB CRACK RETROFIT, SEE SHEET NO. S90.
2. FOR FS CRACK RETROFIT, SEE SHEET NO. S90.
3. FOR FT CRACK RETROFIT, SEE SHEET NO. S90.

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| REVISION   | DATE  |
| DATE: AUGUST 2025  | CHECKED BY  |
| DESIGNED BY: L CLARK   | M BARON   |
| DETAILED BY: MJ DWYER  | M BARON   |
| <b>Commonwealth of Kentucky</b><br><b>DEPARTMENT OF HIGHWAYS</b>   |   |
| COUNTY<br><b>JEFFERSON</b>   |   |
| ROUTE<br><b>I-64</b>   | CROSSING<br><b>K &amp; I TT RR TO PRESTON STREET</b>                                      |
| <b><i>FATIGUE RETROFIT LAYOUT – 11</i></b>   |   |
| PREPARED BY  |   |
| <div style="background-color: black; color: white; padding: 5px; display: inline-block;"> <b>Michael Baker</b> </div><br><b>INTERNATIONAL</b>  | 1560 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |
| SHEET NO.<br><div style="border: 2px solid black; padding: 5px; display: inline-block; font-size: 1.5em;"> <b>S51</b> </div>                   |   |
| DRAWING NO.<br><div style="background-color: black; color: white; padding: 5px; display: inline-block; font-size: 1.5em;"> <b>28870</b> </div> |   |



PARTIAL FRAMING PLAN

13TH TO 7TH ST BRIDGE

BRIDGE - B293

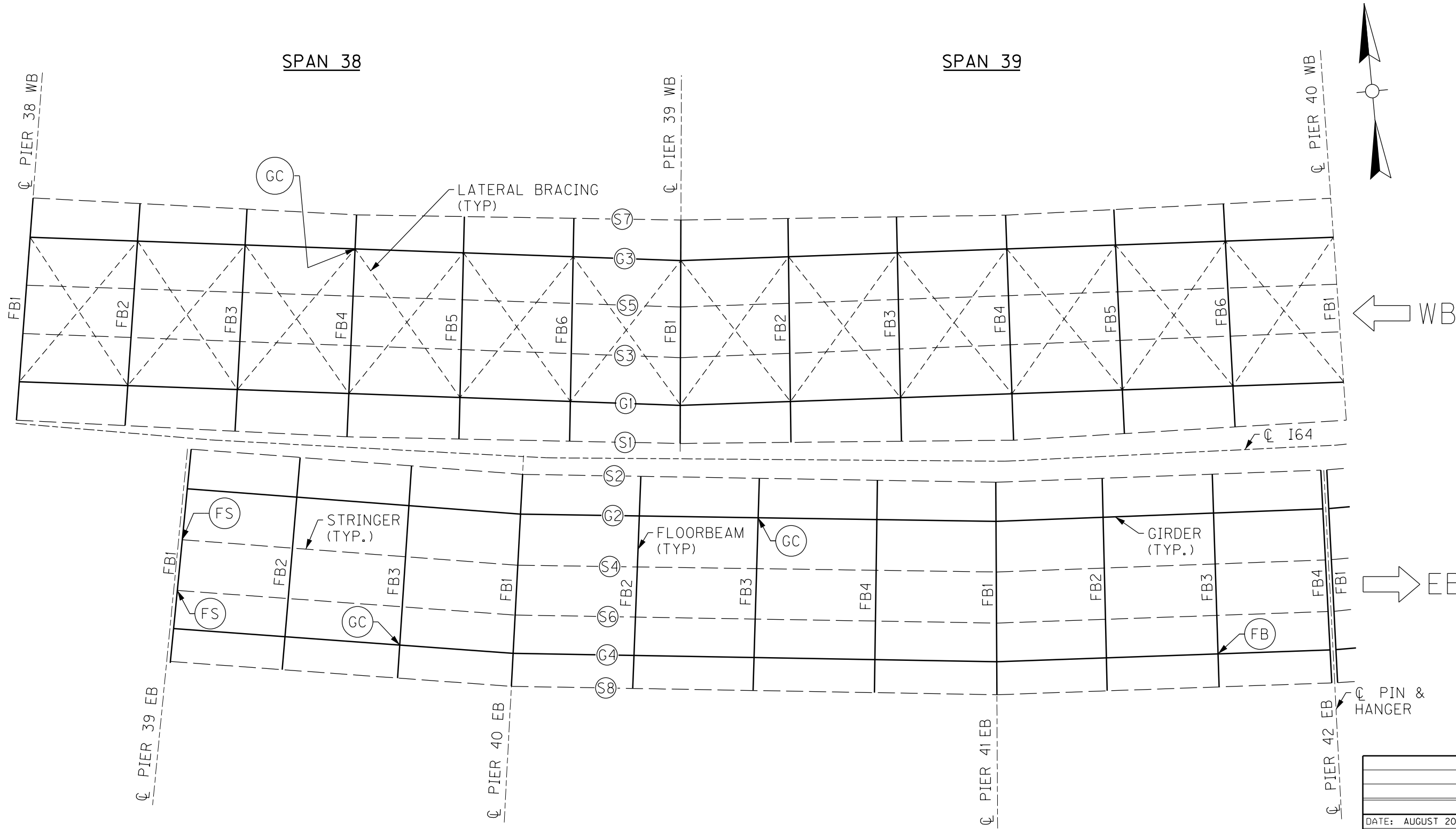
| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
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| 5-10016     |  | Michael Baker International   |  | S52                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com |  | DRAWING NO.<br>28870 |  |

NOTES

- FOR CX1 CRACK RETROFIT, SEE SHEET NO. S88.
- FOR FB CRACK RETROFIT, SEE SHEET NO. S90.
- FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

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| DATE: AUGUST 2025                                  |  | CHECKED BY  |  |
| DESIGNED BY: L CLARK                               |  | M DWYER   |  |
| DETAILED BY: MJ DWYER                              |  | M DWYER   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I TT RR TO PRESTON STREET   |  |
| FATIGUE RETROFIT LAYOUT – 12                       |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| <div>Michael Baker<br/>INTERNATIONAL</div>         |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | DRAWING NO.<br>28870  |  |





- NOTES**
1. FOR FB CRACK RETROFIT, SEE SHEET NO. S90.
  2. FOR FS CRACK RETROFIT, SEE SHEET NO. S90.
  3. FOR GC CRACK RETROFIT, SEE SHEET NO. S89.

**PARTIAL FRAMING PLAN**

**BRIDGE - B293**

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |   |
| DATE: AUGUST 2025   | CHECKED BY                                |
| DESIGNED BY: L CLARK  | M BARON                                   |
| DETAILED BY: MJ DWYER   | M BARON                                   |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |
| COUNTY<br>JEFFERSON   |   |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |
| FATIGUE RETROFIT LAYOUT - 13  |   |
| PREPARED BY   |   |
| Michael Baker<br>INTERNATIONAL  |   |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   |
| SHEET NO.<br>S53  |   |
| DRAWING NO.<br>28870  |   |

**13TH TO 7TH ST BRIDGE**



PARTIAL FRAMING PLAN

NOTES

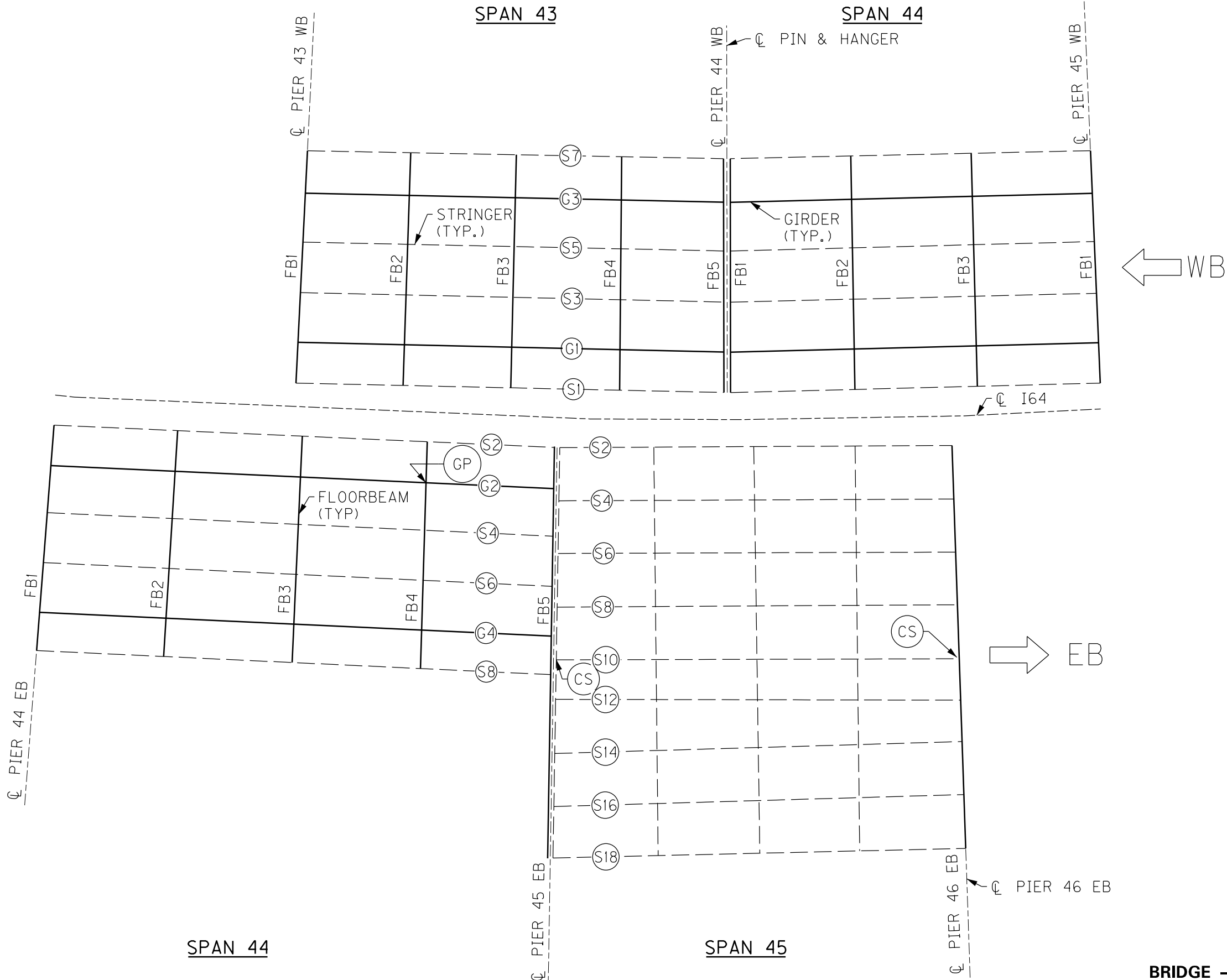
- FOR FS CRACK RETROFIT, SEE SHEET NO. S90.
- FOR GP CRACK RETROFIT, SEE SHEET NO. S89.

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| DATE: AUGUST 2025   |  | CHECKED BY                                |  |
| DESIGNED BY: L CLARK  |  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   |  | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE RETROFIT LAYOUT – 14  |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| <div>Michael Baker<br/>INTERNATIONAL</div>  |  | S54                                       |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                      |  |

BRIDGE - B293

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| ITEM NUMBER |
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13TH TO 7TH ST BRIDGE



PARTIAL FRAMING PLAN

13TH TO 7TH ST BRIDGE

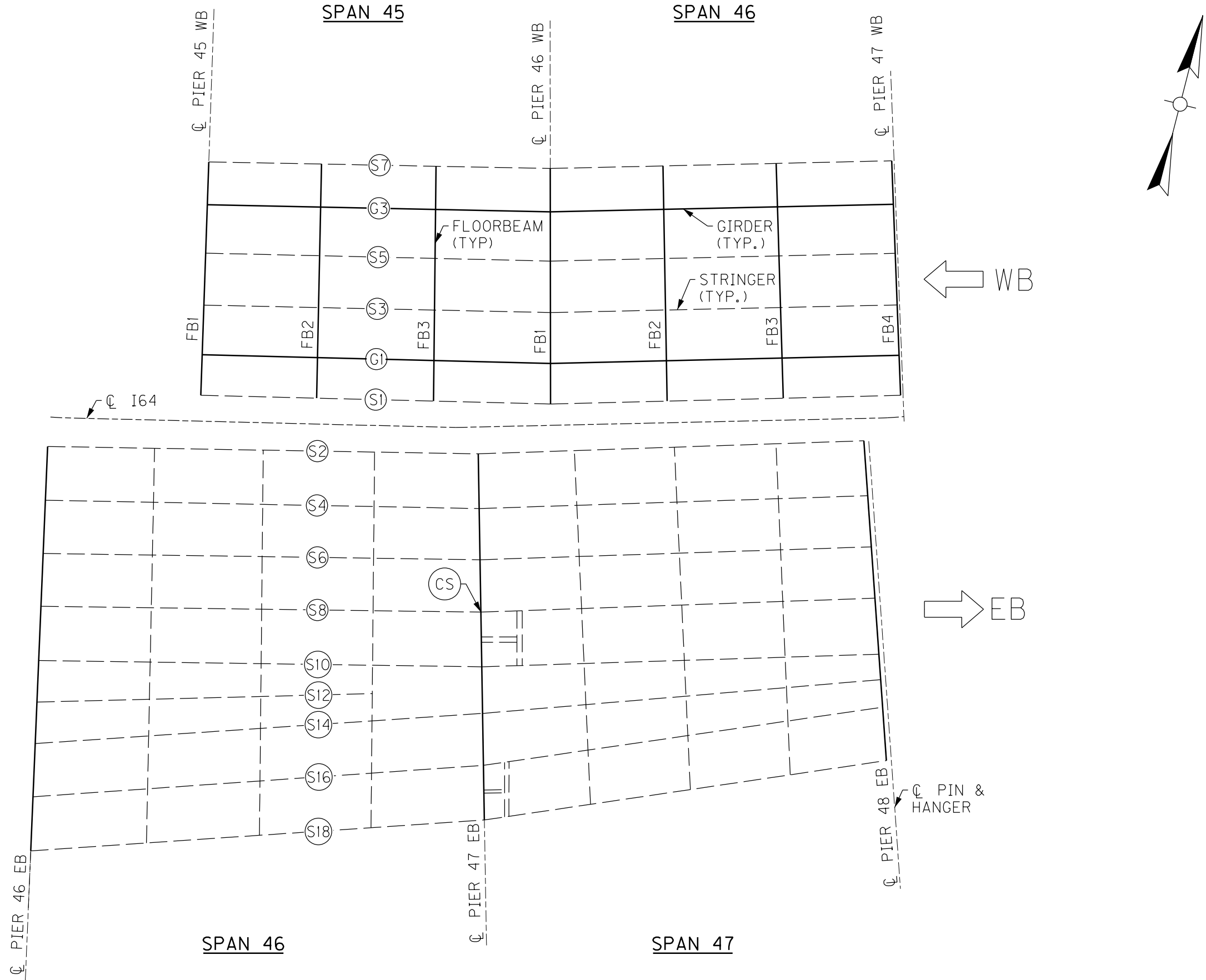
BRIDGE - B293

| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
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| 5-10016     |  | Michael Baker International   |  | S55                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |  |

NOTES

- FOR GP CRACK RETROFIT, SEE SHEET NO. S89.
- FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

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| REVISION  |  | DATE                                      |  |
| DATE: AUGUST 2025   |  | CHECKED BY                                |  |
| DESIGNED BY: L CLARK  |  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   |  | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE RETROFIT LAYOUT – 15  |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| <div>Michael Baker<br/>INTERNATIONAL</div>  |  | S55                                       |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                      |  |



PARTIAL FRAMING PLAN

13TH TO 7TH ST BRIDGE

BRIDGE – B293

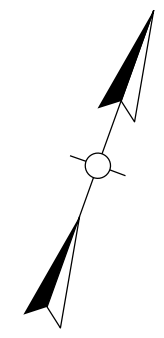
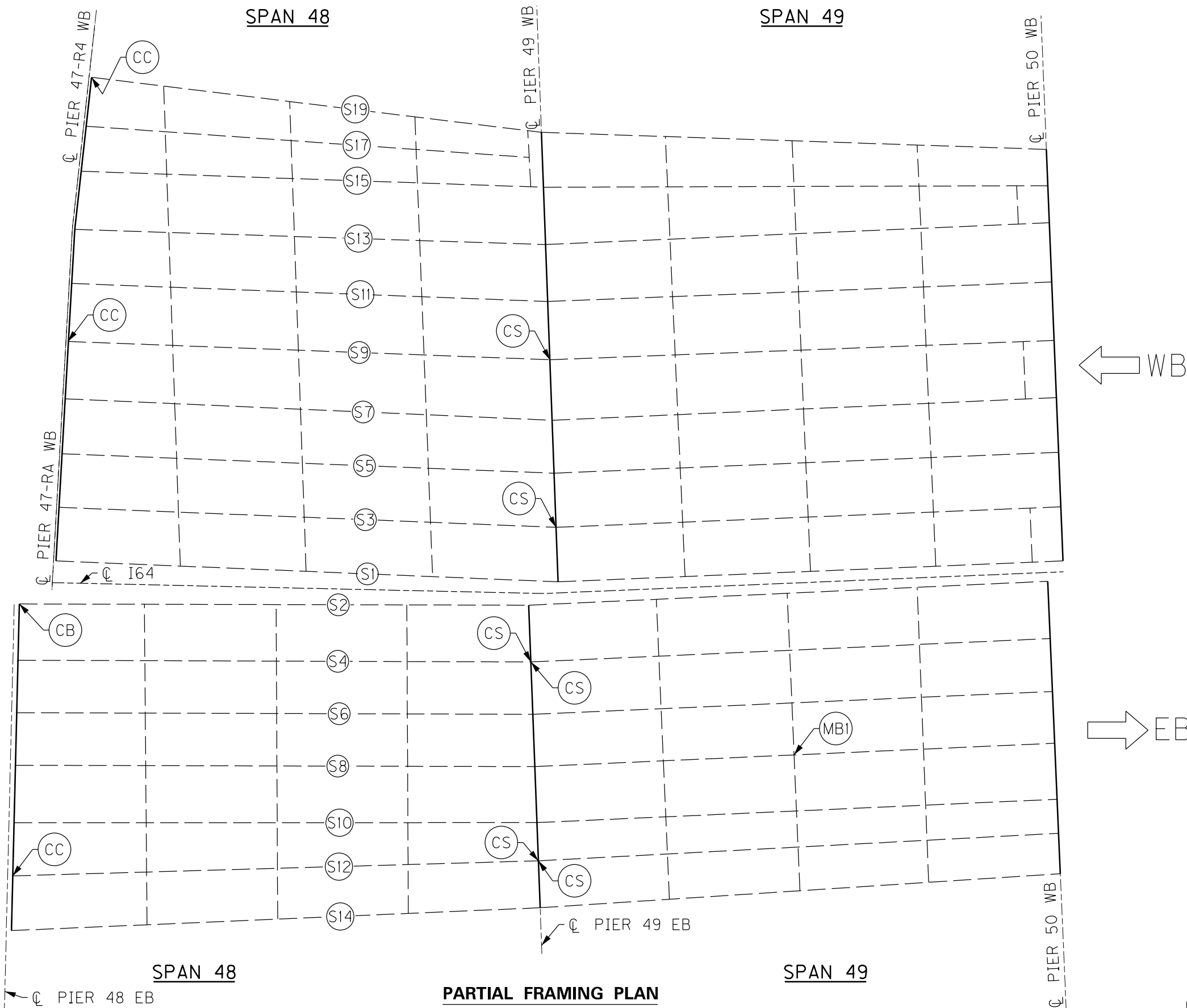
| ITEM NUMBER |
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### NOTES

1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 16  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker International   |   | S56                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

FILE NAME: C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER\MBAKERINTL.COM\DRAWING\13TH TO 7TH ST BRIDGE\13TH TO 7TH ST BRIDGE.dwg  
USER: MaryJo.Dwyer  
DATE PLOTTED: December 1, 2023  
E-SHEET NAME: S23464 020  
MicroStation v0.17.01.58



**NOTES**

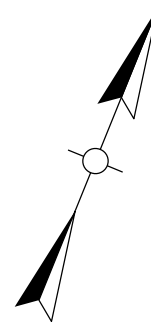
1. FOR CB CRACK RETROFIT, SEE SHEET NO. S87.
2. FOR CC CRACK RETROFIT, SEE SHEET NO. S88.
3. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.
4. FOR MBI MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 17  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |   | S57                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

BRIDGE - B293

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| ITEM NUMBER |
| 5-10016     |

13TH TO 7TH ST BRIDGE



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| REVISION  |  | DATE       |   |
| DATE: AUGUST 2025   |  | CHECKED BY |   |
| DESIGNED BY: L CLARK  |  | M BARON    |   |
| DETAILED BY: MJ DWYER   |  | M BARON    |   |
| <p align="center"><b>Commonwealth of Kentucky</b><br/> <b>DEPARTMENT OF HIGHWAYS</b></p>  |  |            |   |
| <p align="center">COUNTY<br/> <b>JEFFERSON</b></p>  |  |            |   |
| ROUTE<br><b>I-64</b>  | CROSSING<br><b>K &amp; I TT RR TO PRESTON STREET</b> |            |   |
| <b>FATIGUE RETROFIT LAYOUT – 18</b>   |  |            |   |
| <p align="center">PREPARED BY</p> <p align="center"><b>Michael Baker</b><br/>         1650 Lyndon Farm Court<br/>         Louisville, KY 40223<br/>         Phone: (502) 339-3557<br/>         MBAKERINTL.COM</p> |  |            | <p align="center">SHEET NO.<br/> <b>S58</b></p>     |
| <p align="center"><b>INTERNATIONAL</b></p>  |  |            | <p align="center">DRAWING NO.<br/> <b>28870</b></p> |

5-10016

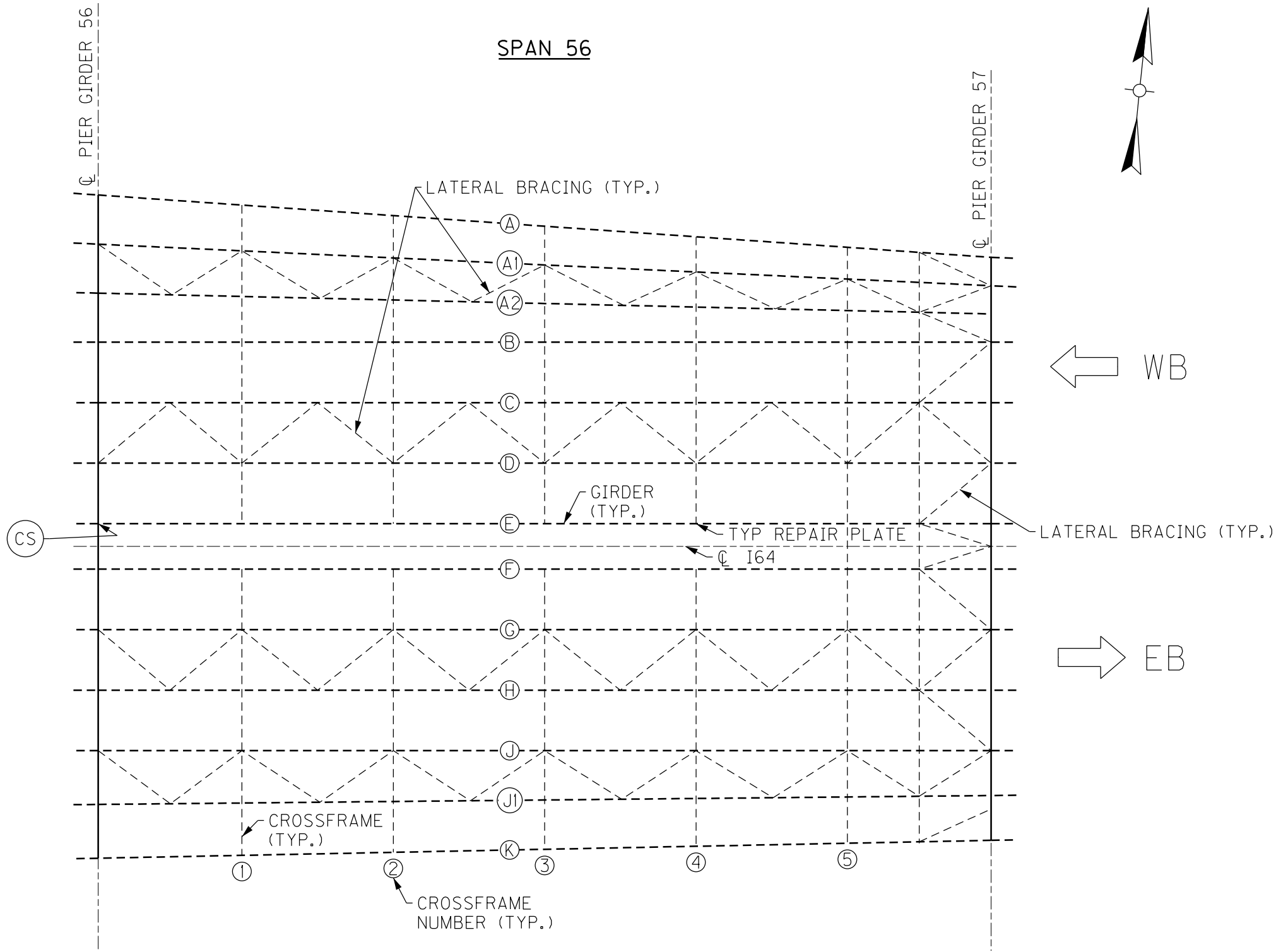
### 13TH TO 7TH ST BRIDGE

MicroStation v10.17.01.58

E-SHEET NAME: S23464 020

USER: Mary Jo Dwyer  
DATE PLOTTED: December 6, 2023

FILE NAME:  
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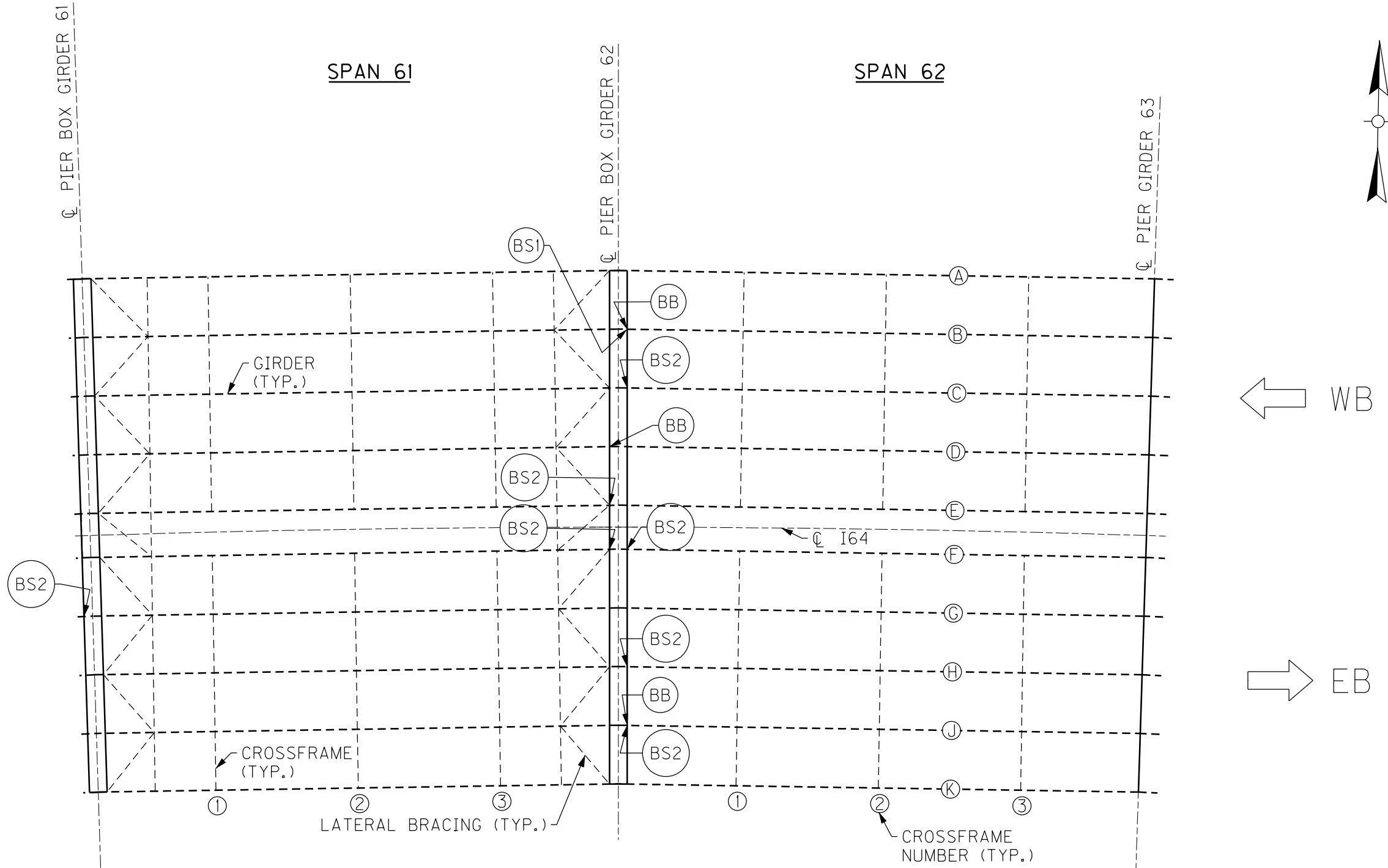
PARTIAL FRAMING PLAN

7TH TO 2ND ST BRIDGE

BRIDGE – B292

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 19  |   |                      |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |   | SHEET NO.<br>S59     |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

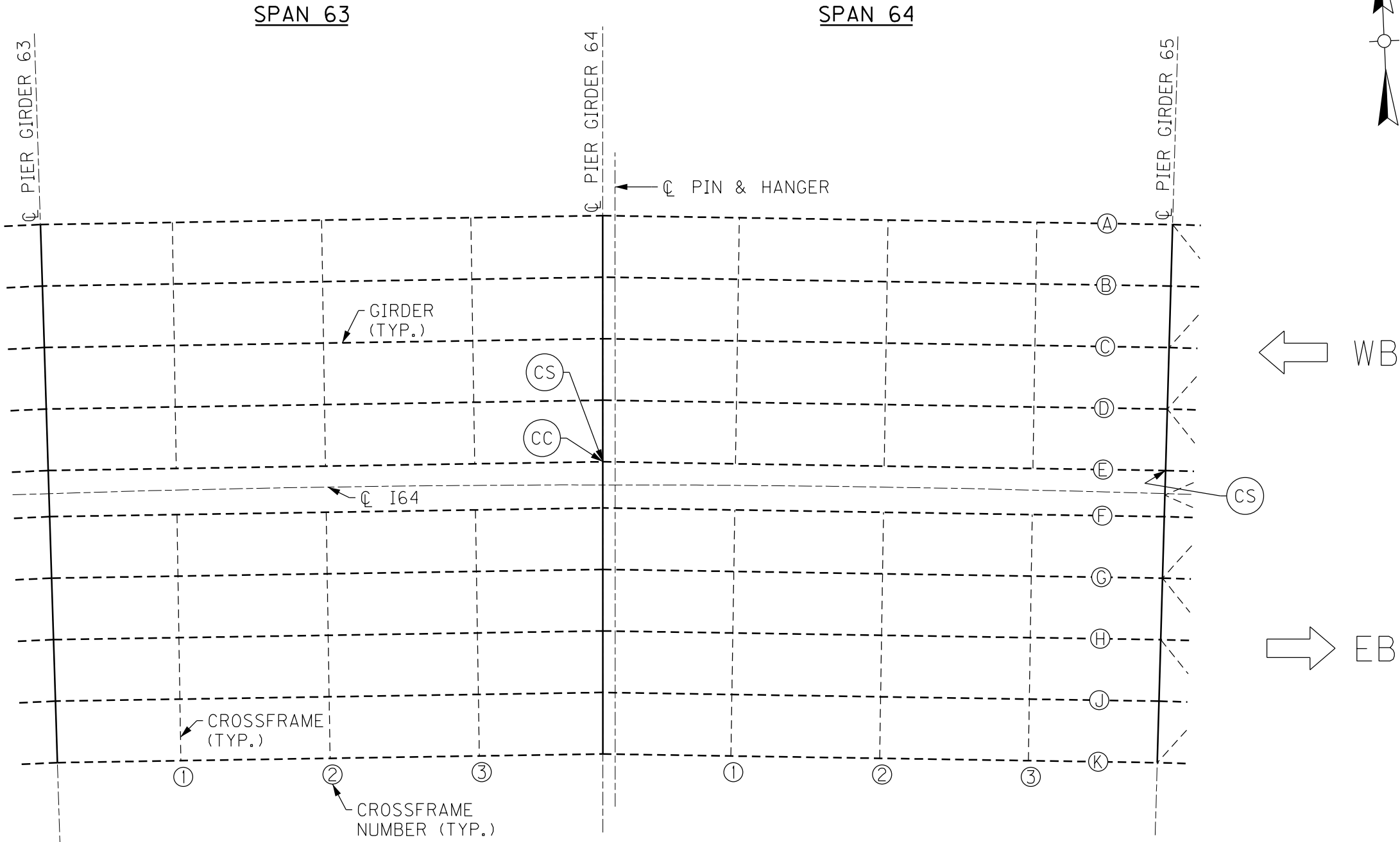
- NOTES**
- FOR BB CRACK RETROFIT, SEE SHEET NO. S85.
  - FOR BS1 & BS2 CRACK RETROFITS, SEE SHEET NO. S86.

BRIDGE - B292

| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.                   |
|-------------|--|---|--|-----------------------------|
| 5-10016     |  | <b>Michael Baker</b><br>INTERNATIONAL   |  | <b>S60</b>                  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br><b>28870</b> |

7TH TO 2ND ST BRIDGE





PARTIAL FRAMING PLAN

7TH TO 2ND ST BRIDGE

BRIDGE – B292

| ITEM NUMBER |
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NOTES

1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

2. FOR CC CRACK RETROFIT, SEE SHEET NO. S88.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   |   | CHECKED BY           |
| DESIGNED BY: L CLARK  |   | M BARON              |
| DETAILED BY: MJ DWYER   |   | M BARON              |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 21  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker International   |   | S61                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

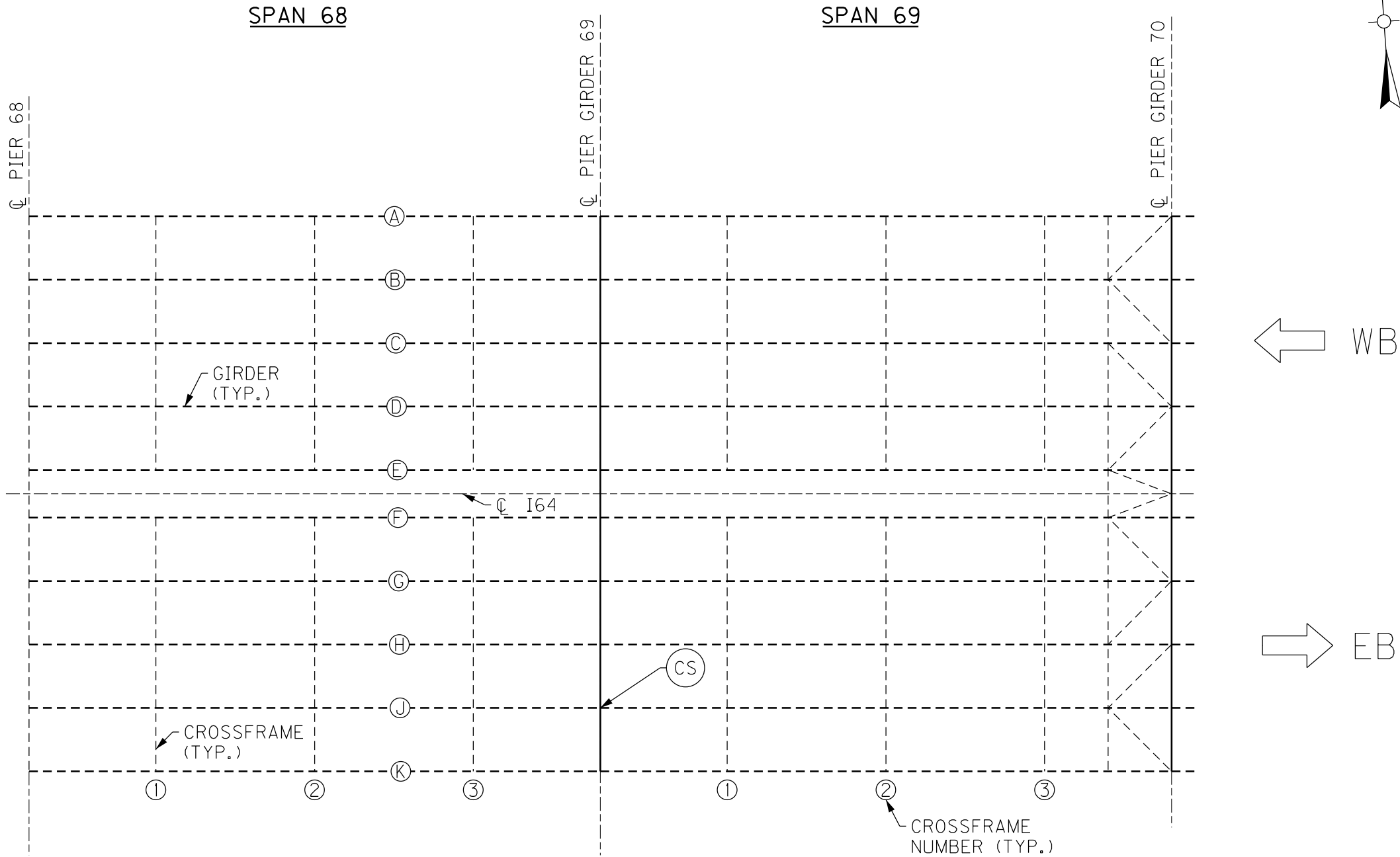
- NOTES**
- FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

BRIDGE – B292

| ITEM NUMBER |
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7TH TO 2ND ST BRIDGE

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 22  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S62                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

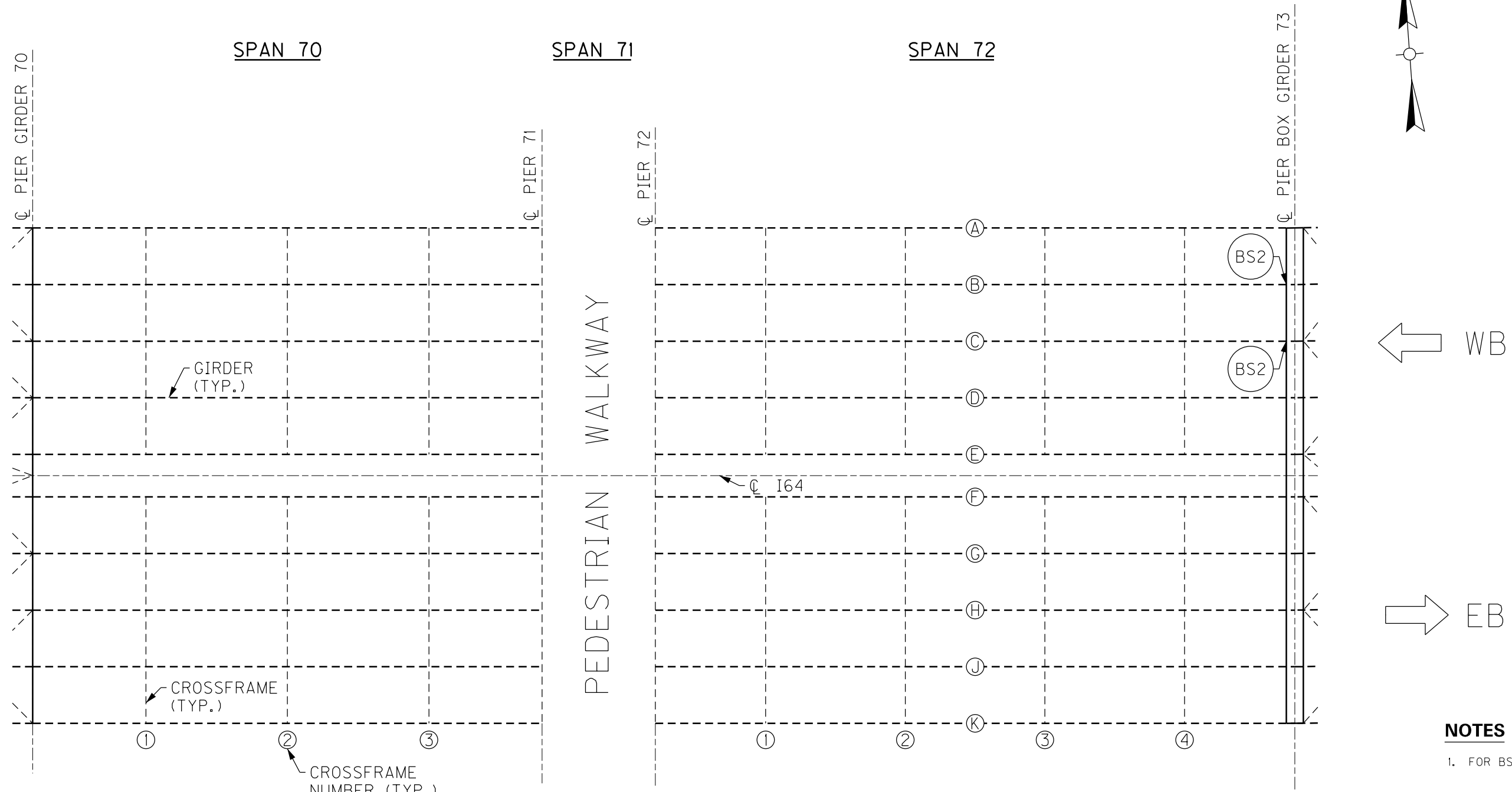
7TH TO 2ND ST BRIDGE

BRIDGE – B292

| ITEM NUMBER |
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| 5-10016     |

**NOTES**  
1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

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| REVISION   |   | DATE        |
| DATE: AUGUST 2025  | CHECKED BY                                |             |
| DESIGNED BY: L CLARK   | M BARON                                   |             |
| DETAILED BY: MJ DWYER  | M BARON                                   |             |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS   |   |             |
| COUNTY<br>JEFFERSON  |   |             |
| ROUTE<br>I-64  | CROSSING<br>K & I TT RR TO PRESTON STREET |             |
| FATIGUE RETROFIT LAYOUT – 23   |   |             |
| PREPARED BY  |   | SHEET NO.   |
| Michael Baker International<br>1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | S63         |
|  |   | DRAWING NO. |
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PARTIAL FRAMING PLAN

NOTES

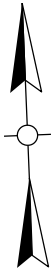
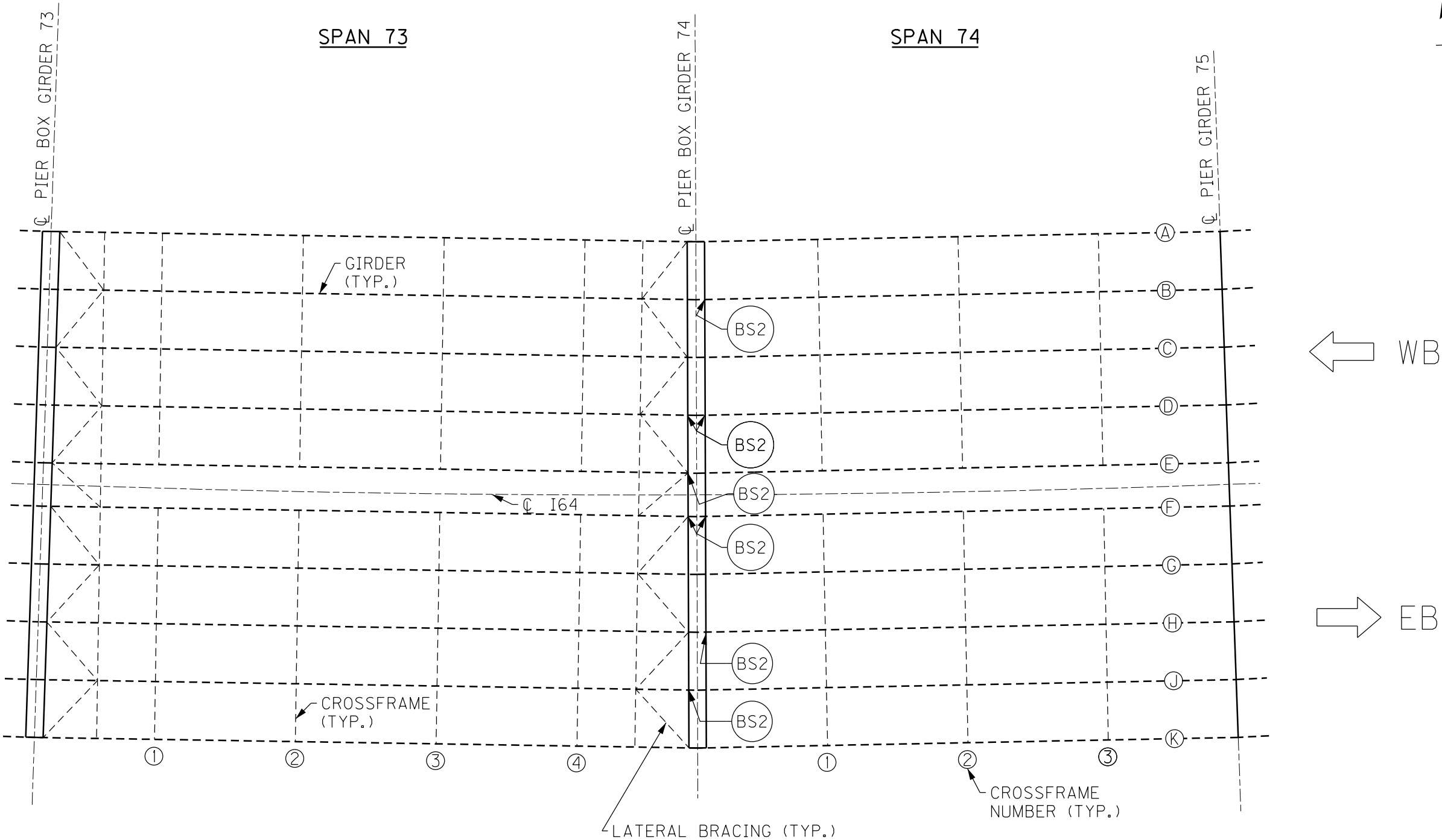
- 1. FOR BS2 CRACK RETROFIT, SEE SHEET NO. S86.

BRIDGE – B292

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7TH TO 2ND ST BRIDGE

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 24  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S64                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



NOTES

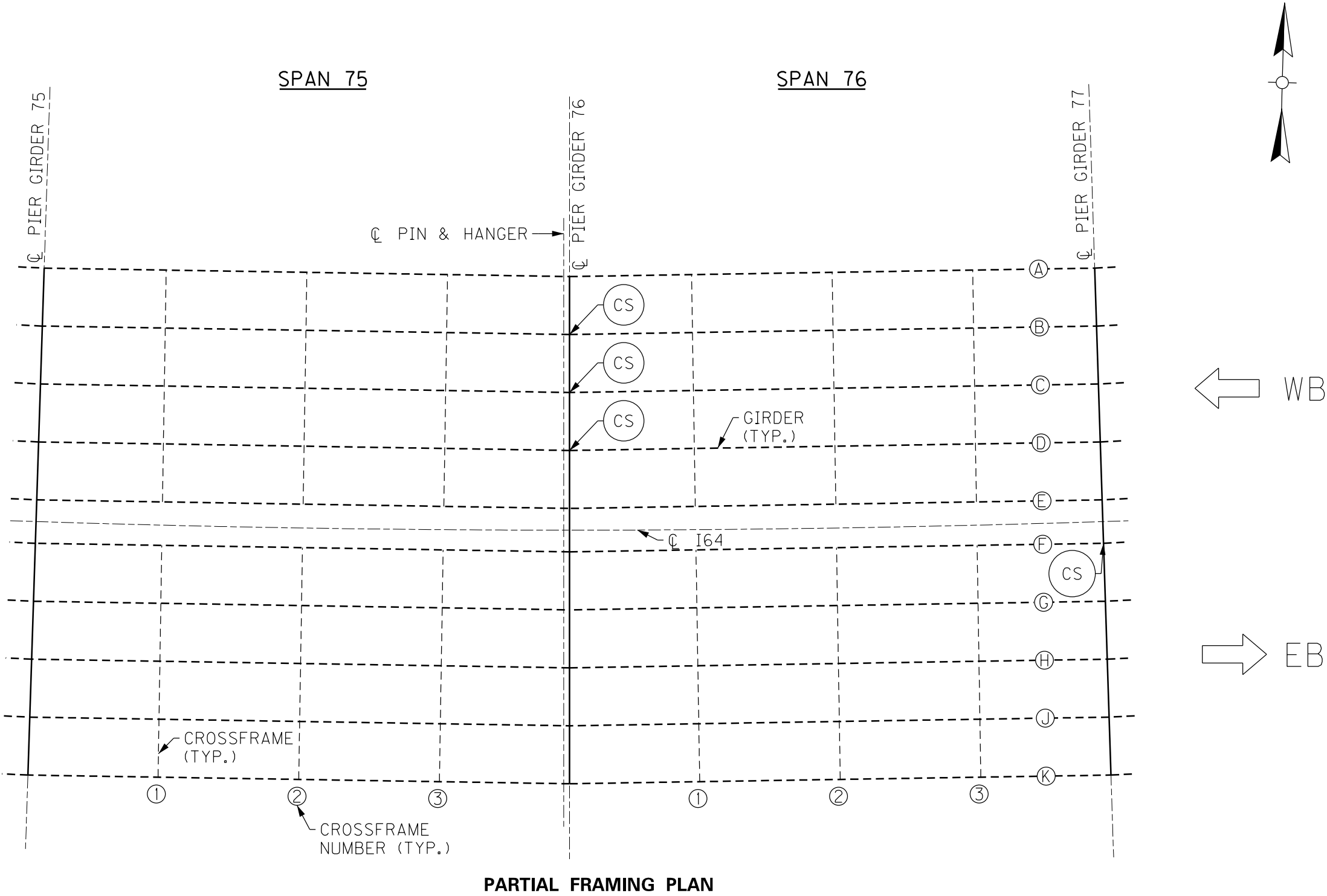
1. FOR BS2 CRACK RETROFIT, SEE SHEET NO. S86.

BRIDGE – B292

| ITEM NUMBER |
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7TH TO 2ND ST BRIDGE

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 25  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |   | S65                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

7TH TO 2ND ST BRIDGE

BRIDGE – B292

| ITEM NUMBER |
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| 5-10016     |

### NOTES

1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 26  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker INTERNATIONAL   |   | S66                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER@MBAKERINTL.COM

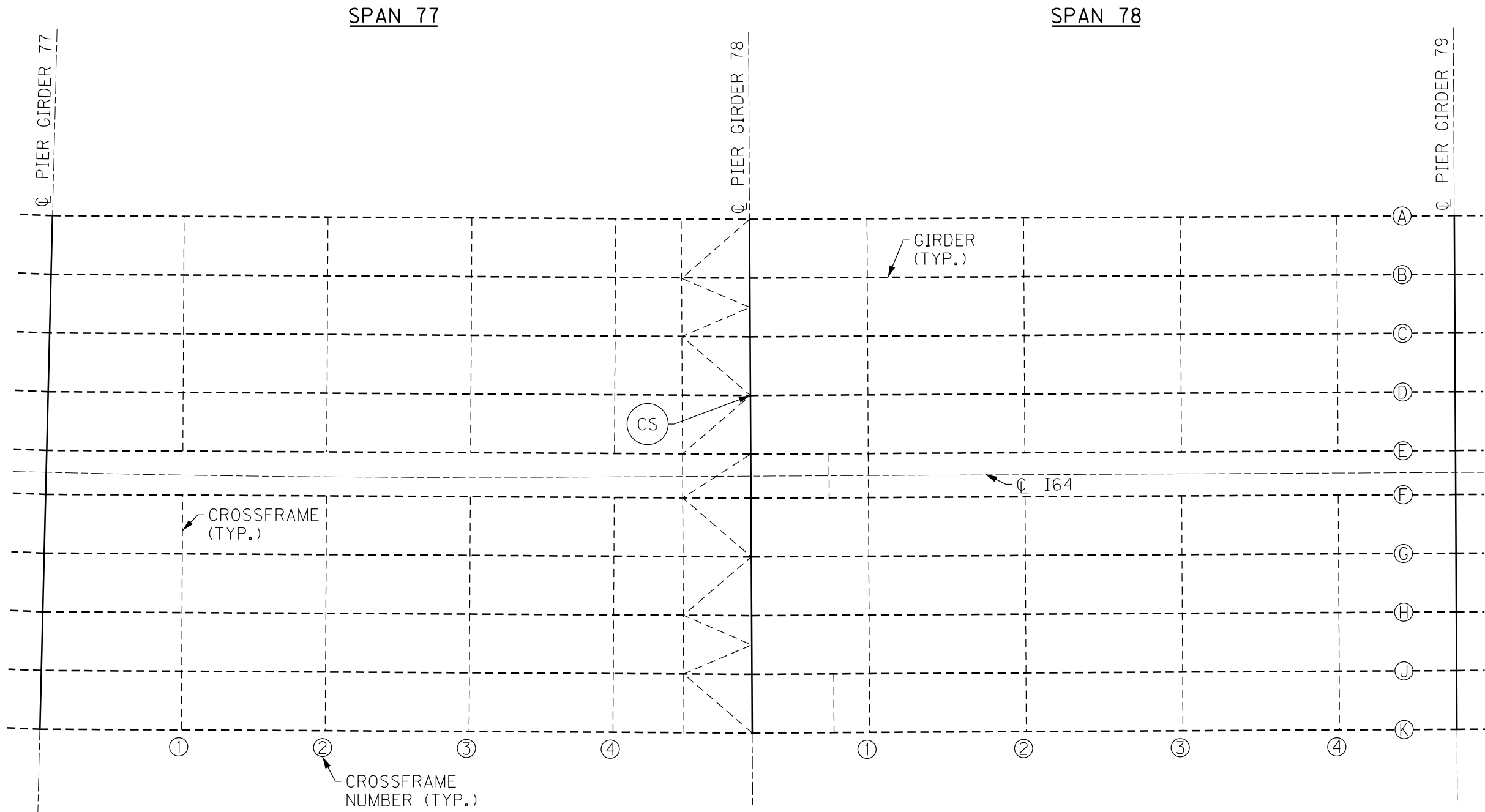
FILE NAME:

USER: MaryJo.Dwyer

DATE PLOTTED: December 6, 2023

E-SHEET NAME: S23464 020

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PARTIAL FRAMING PLAN



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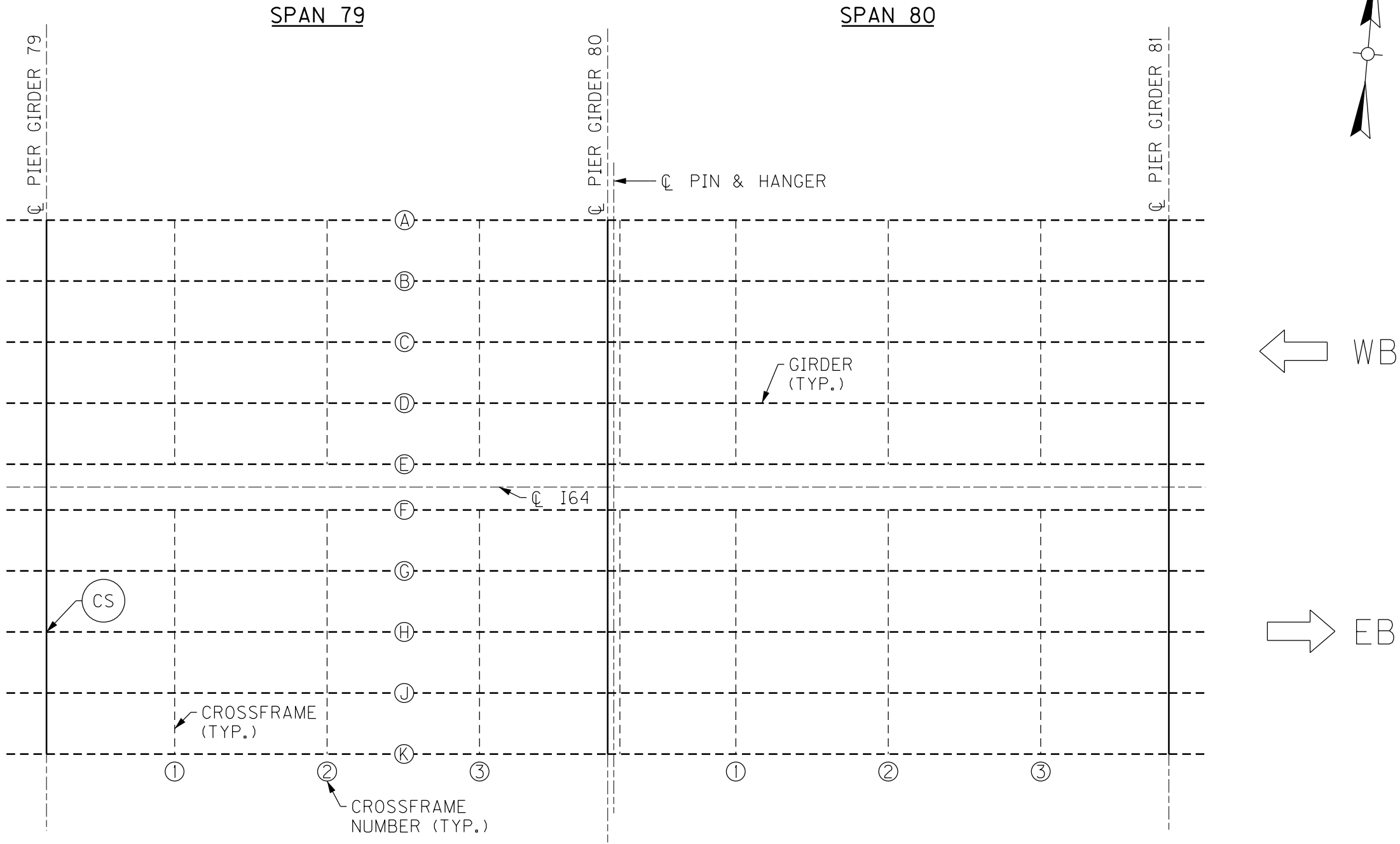
1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

BRIDGE - B292

| ITEM NUMBER |
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7TH TO 2ND ST BRIDGE

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 27  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S67                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

7TH TO 2ND ST BRIDGE

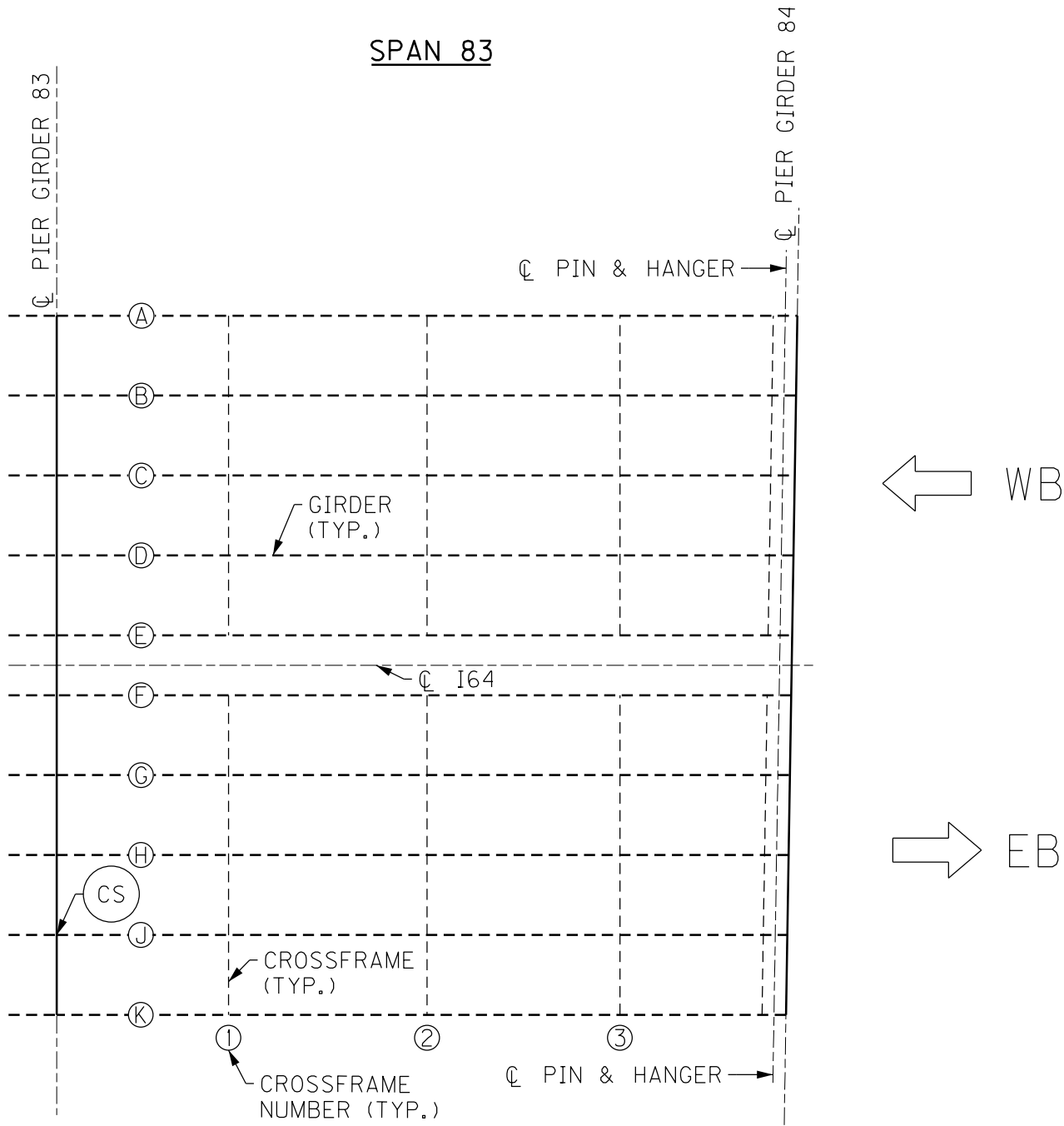
BRIDGE – B292

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**NOTES**  
1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 28  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |   | S68                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |





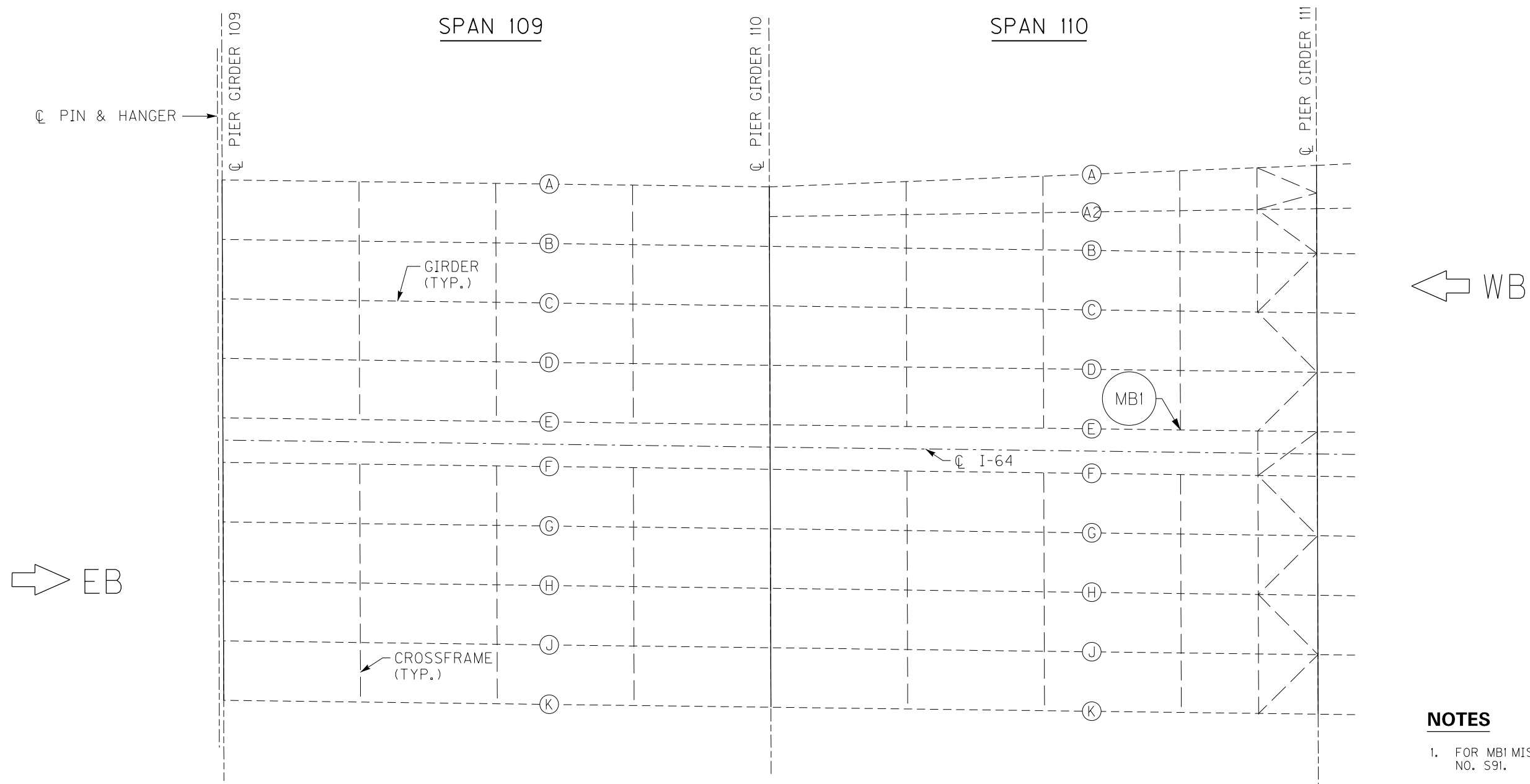
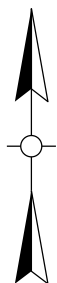
PARTIAL FRAMING PLAN

7TH TO 2ND ST BRIDGE

BRIDGE – B292

| ITEM NUMBER |
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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 29  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S69                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



## PARTIAL FRAMING PLAN

## NOTES

1. FOR MBI MISSING BOLT RETROFIT, SEE SHEET NO. S91.

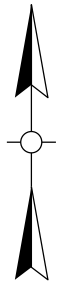
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| DATE: AUGUST 2025  |  | CHECKED BY  |  |
| DESIGNED BY: L CLARK   |  | M BARON   |  |
| DETAILED BY: MJ DWYER  |  | M BARON   |  |
| <p align="center"><b>Commonwealth of Kentucky</b><br/> <b>DEPARTMENT OF HIGHWAYS</b></p>               |  |   |  |
| <p align="center">COUNTY<br/> <b>JEFFERSON</b></p>   |  |   |  |
| ROUTE<br><b>I-64</b>   | CROSSING<br><b>K &amp; I TT RR TO PRESTON STREET</b> |   |  |
| <b>FATIGUE RETROFIT LAYOUT – 30</b>  |  |   |  |
| <p align="center">PREPARED BY</p> <p align="center"><b>Michael Baker</b><br/> <b>INTERNATIONAL</b></p> |  | <p align="center">1650 Lyndon Farm Court<br/> Louisville, KY 40223<br/> Phone: (502) 339-3557<br/> MBAKERINTL.COM</p> |  |
|  |  | <p align="center">SHEET NO<br/> <b>S70</b><br/> DRAWING NO<br/> <b>2887</b></p>                                       |  |

**BRIDGE – B142**

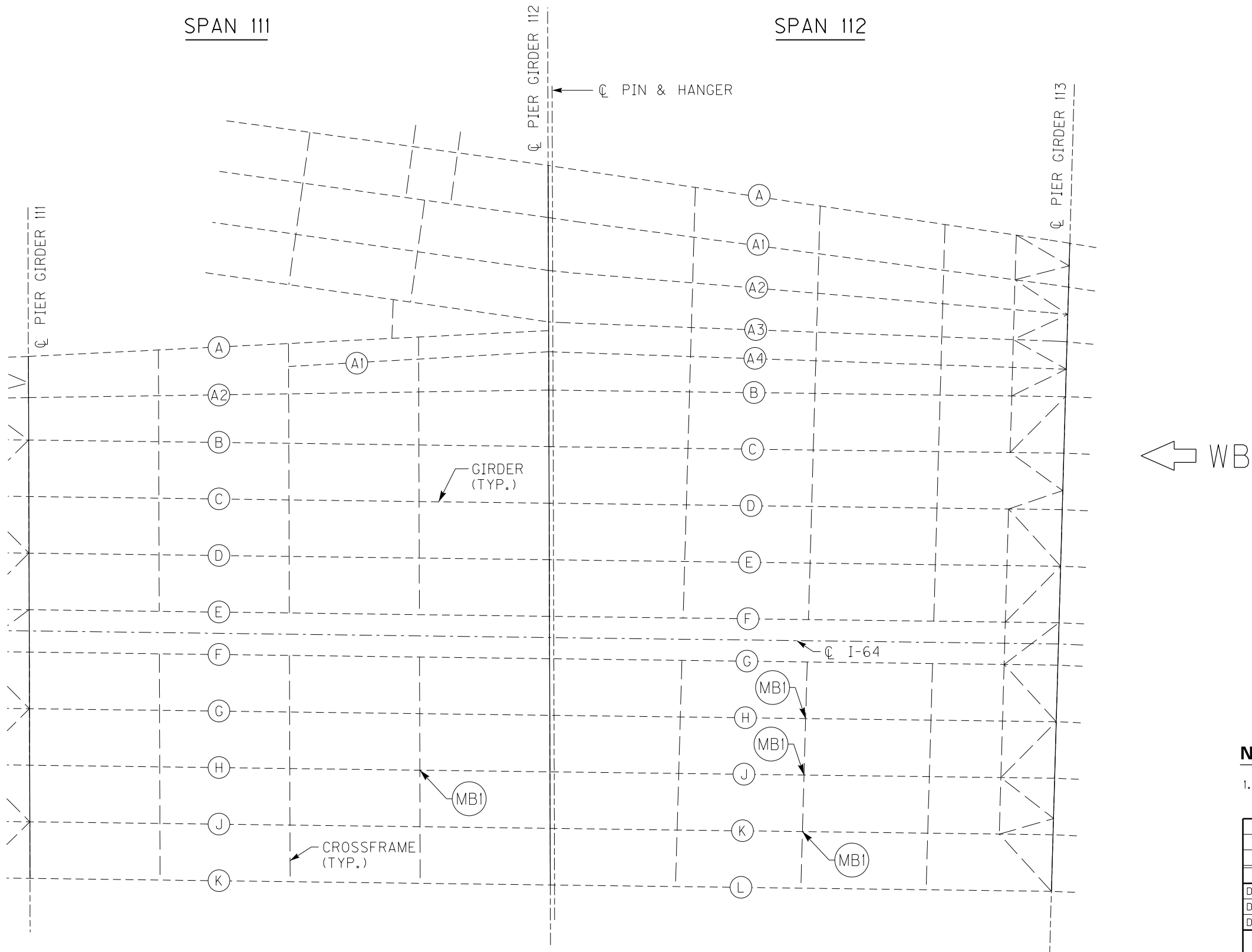
### 3RD TO PRESTON ST BRIDGE

ITEM NUMBER

5-10016



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PARTIAL FRAMING PLAN

3RD TO PRESTON ST BRIDGE

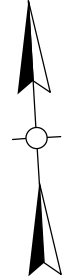
BRIDGE - B142

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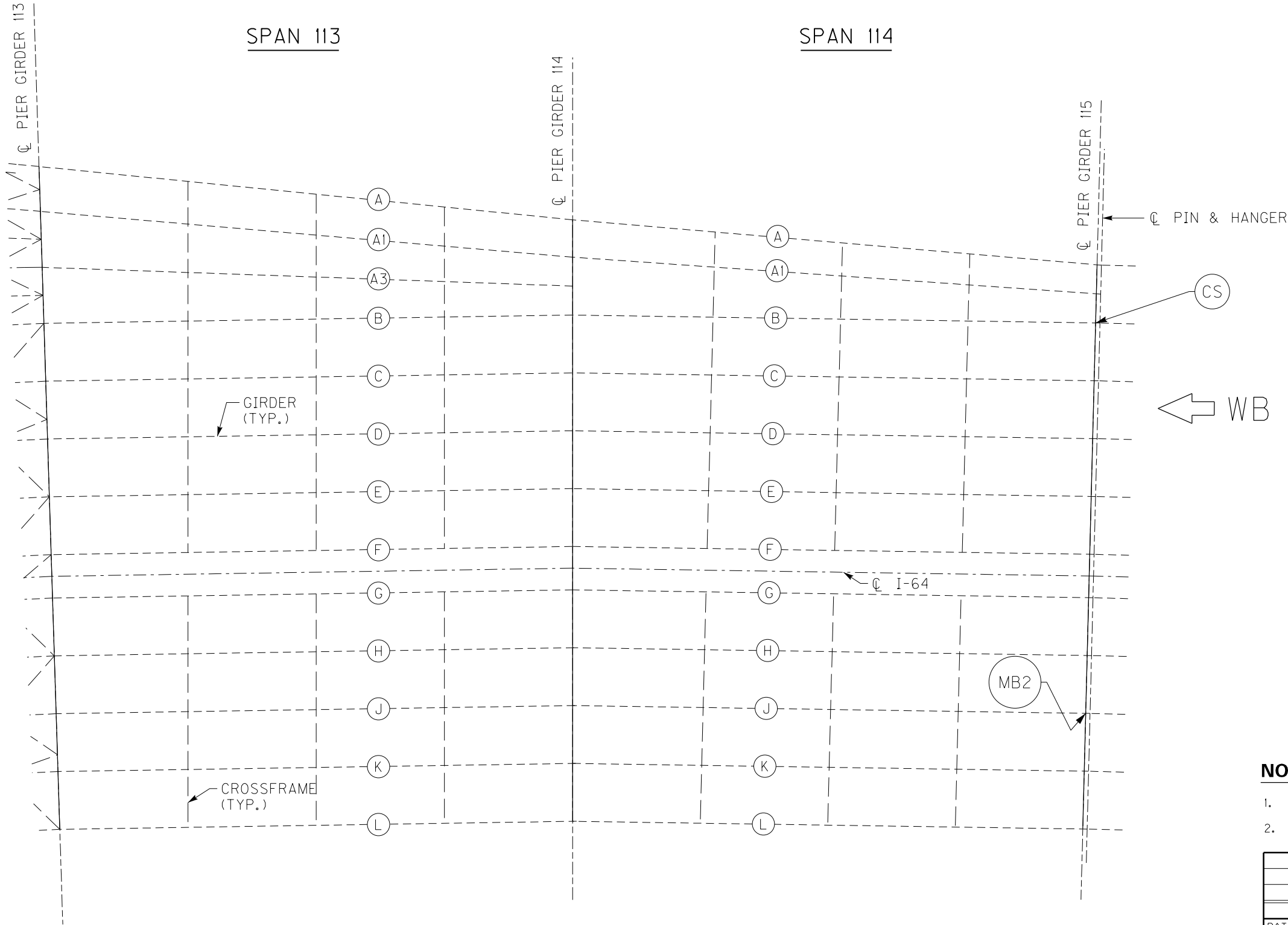
NOTES

1. FOR MB1 MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT - 31  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker International   |   | S71                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



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PARTIAL FRAMING PLAN

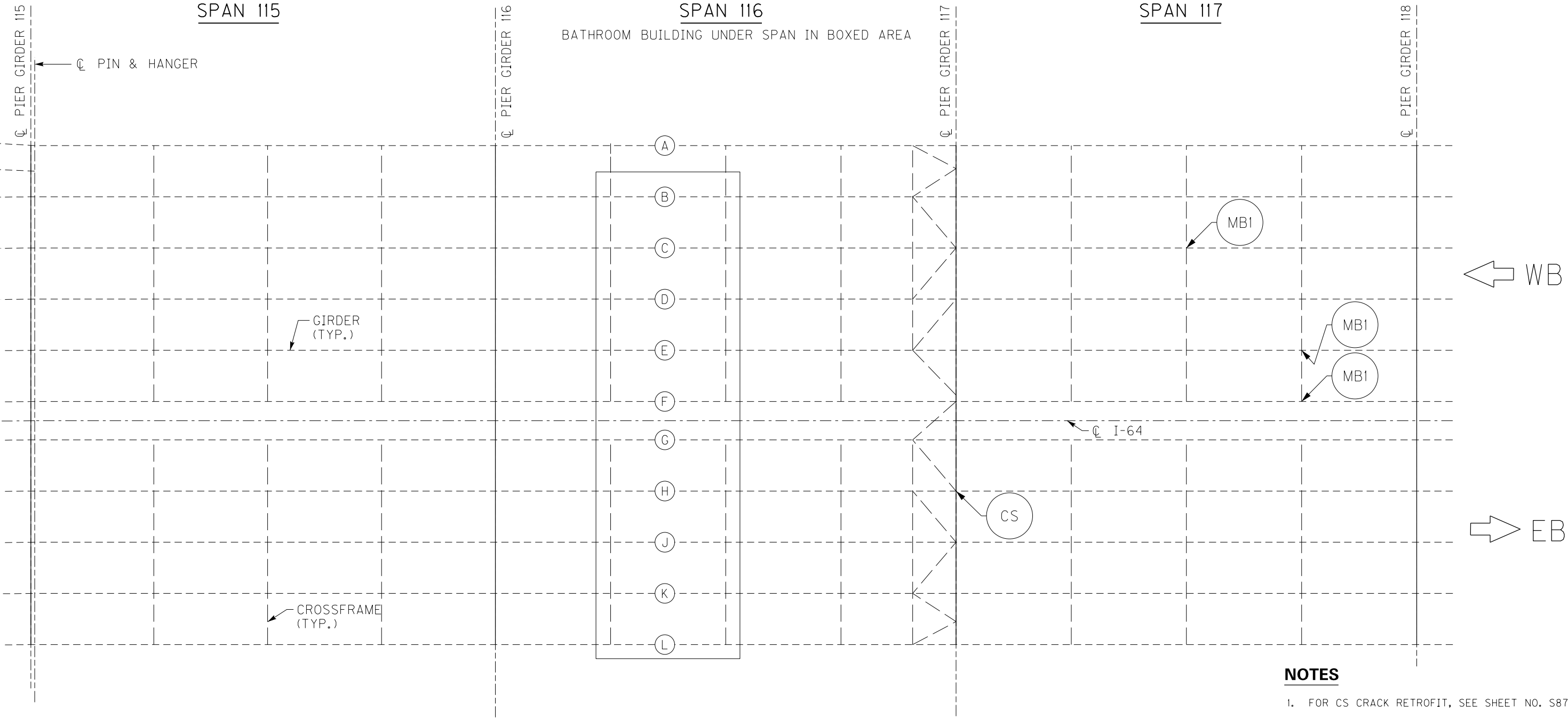
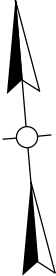
- NOTES**
- FOR CS CRACK RETROFIT, SEE SHEET NO. S87.
  - FOR MB2 MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 32  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |   | S72                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

BRIDGE - B142

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3RD TO PRESTON ST BRIDGE



PARTIAL FRAMING PLAN

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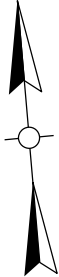
- 1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.
- 2. FOR MBI MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 33  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |   | S73                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

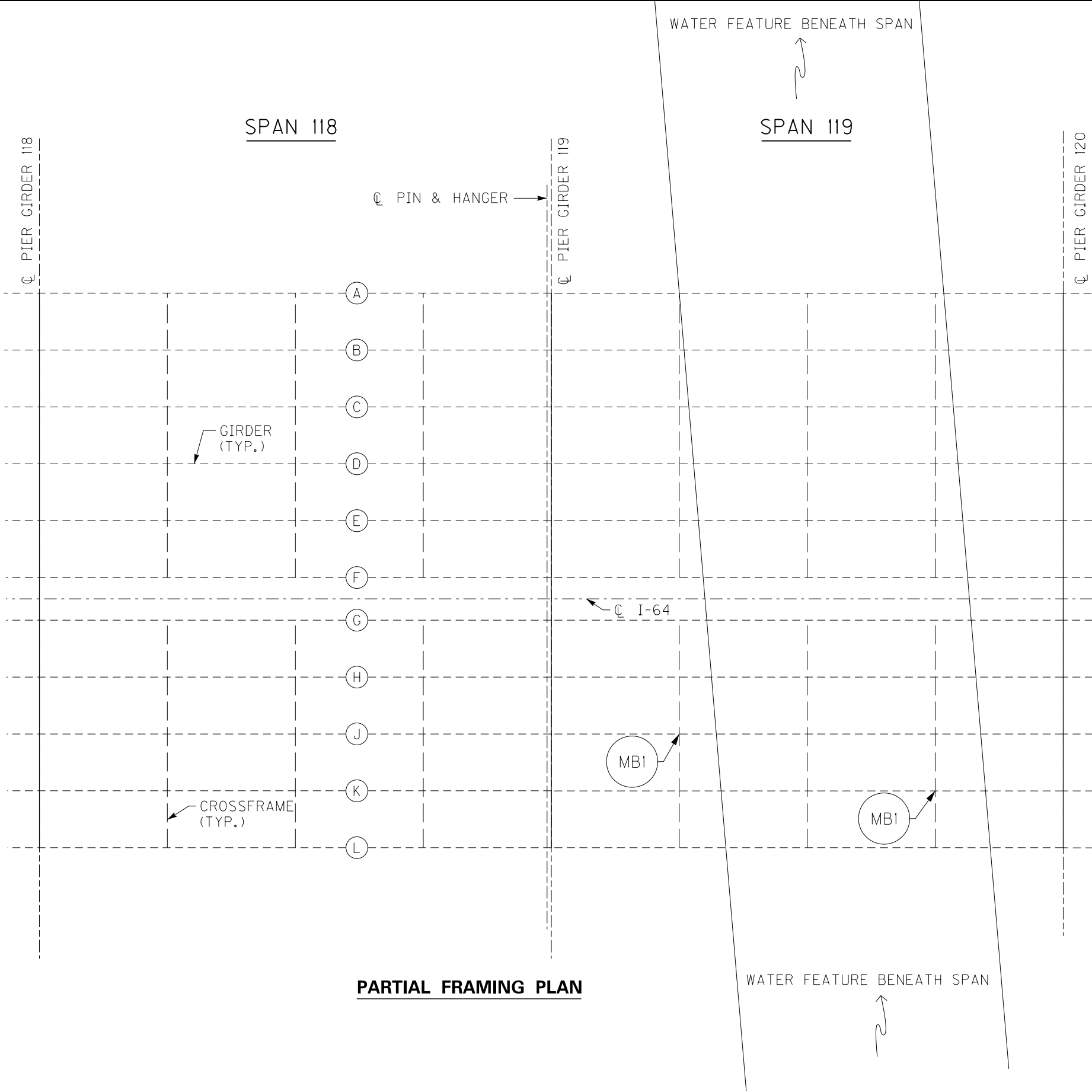
BRIDGE - B142

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3RD TO PRESTON ST BRIDGE



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PARTIAL FRAMING PLAN

3RD TO PRESTON ST BRIDGE

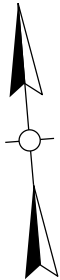
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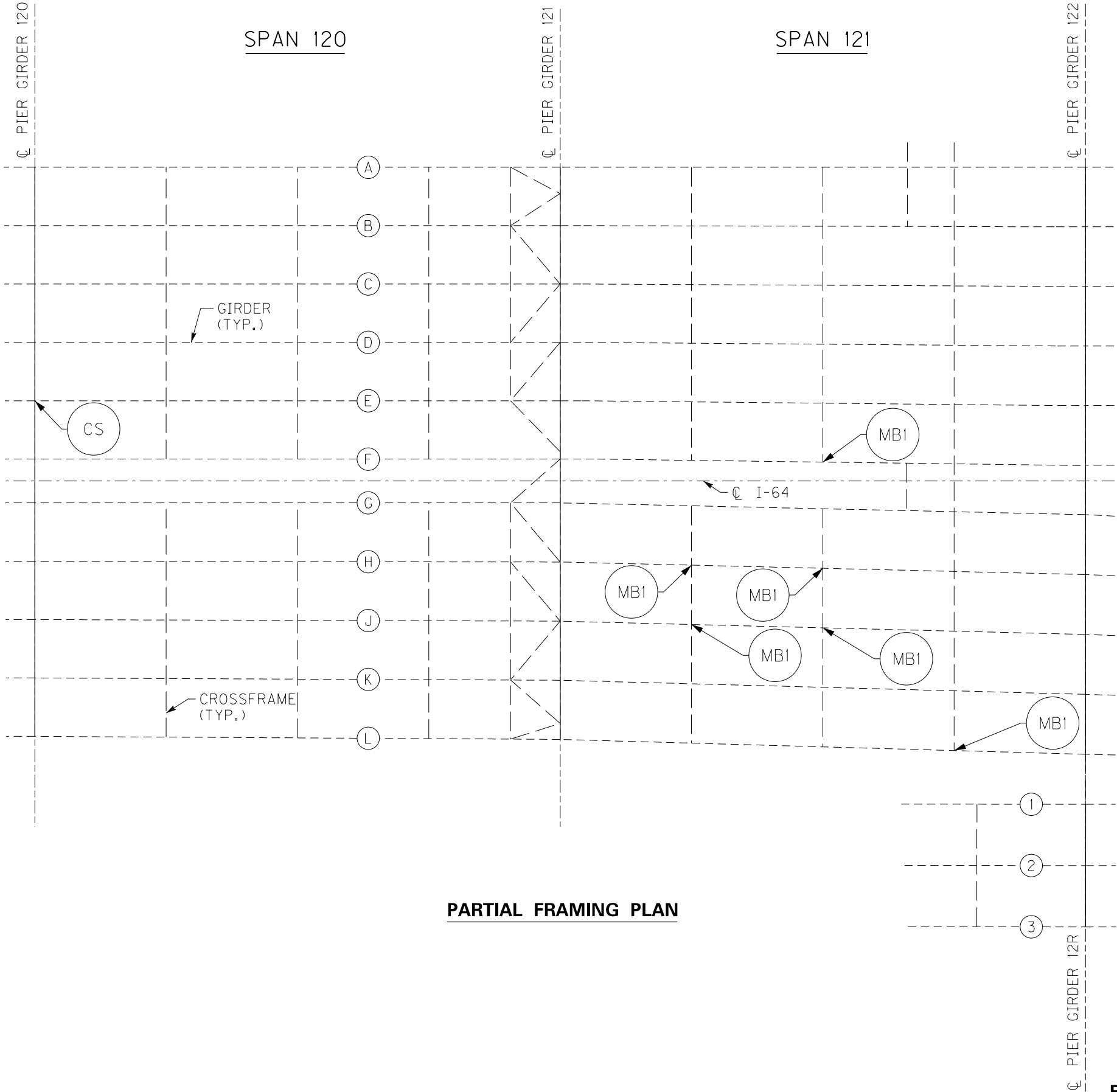
NOTES

- FOR MBI MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 34  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S74                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



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**PARTIAL FRAMING PLAN**

**BRIDGE - B142**

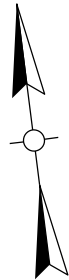
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**NOTES**

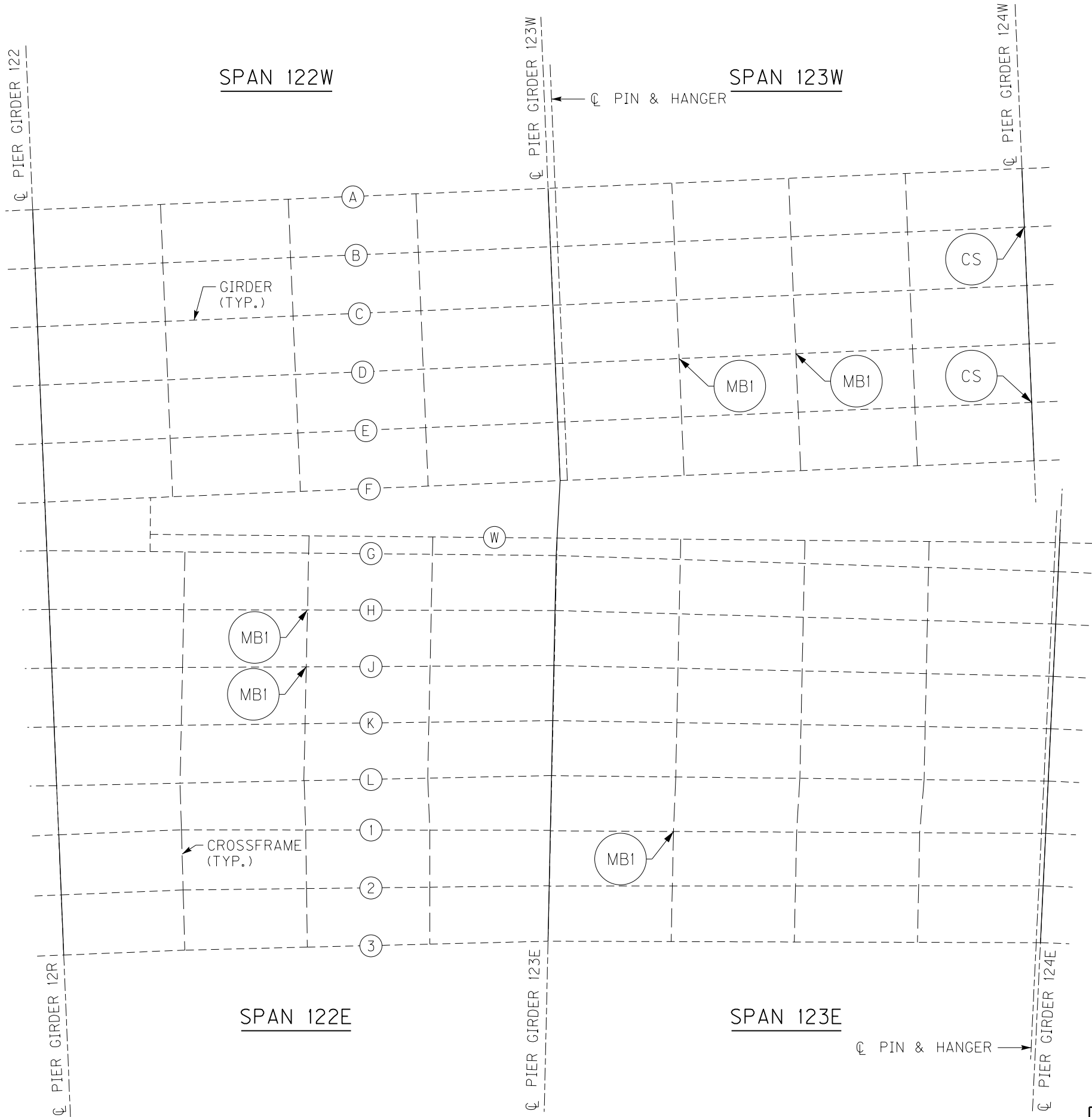
- FOR CS CRACK RETROFIT, SEE SHEET NO. S87.
- FOR MB1 MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 35  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S75                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

**3RD TO PRESTON ST BRIDGE**



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PARTIAL FRAMING PLAN

3RD TO PRESTON ST BRIDGE

BRIDGE - B142

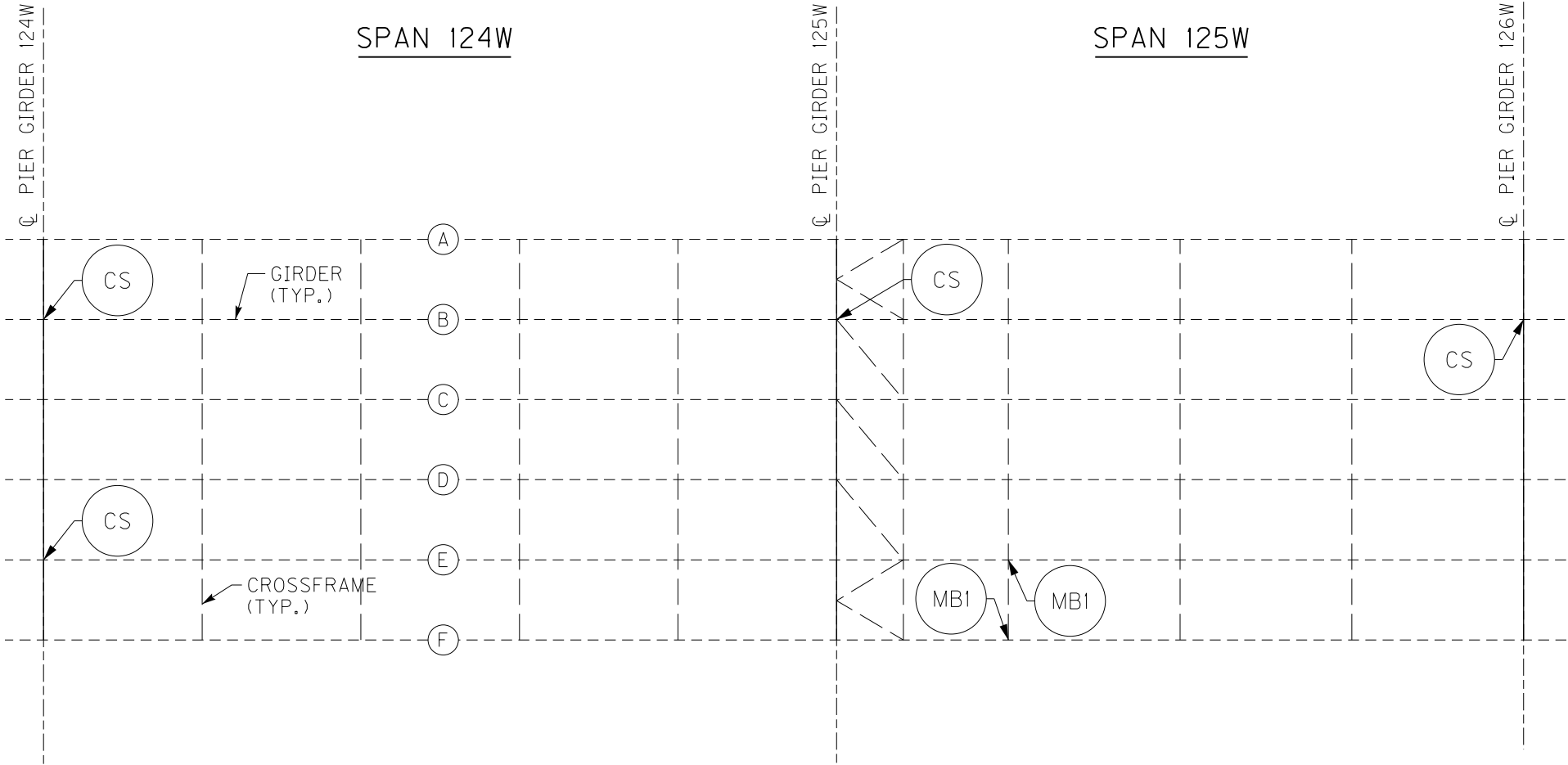
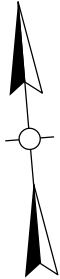
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**NOTES**

- FOR CS CRACK RETROFIT, SEE SHEET NO. S87.
- FOR MB1 MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| REVISION  |  | DATE                        |
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| DESIGNED BY: L CLARK  | M BARON  |                             |
| DETAILED BY: MJ DWYER   | M BARON  |                             |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                             |
| COUNTY<br><b>JEFFERSON</b>  |  |                             |
| ROUTE<br><b>I-64</b>  | CROSSING<br><b>K &amp; I TT RR TO PRESTON STREET</b> |                             |
| <b>FATIGUE RETROFIT LAYOUT - 36</b>   |  |                             |
| PREPARED BY   |  | SHEET NO.                   |
| <b>Michael Baker</b><br>INTERNATIONAL   |  | <b>S76</b>                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br><b>28870</b> |





PARTIAL FRAMING PLAN

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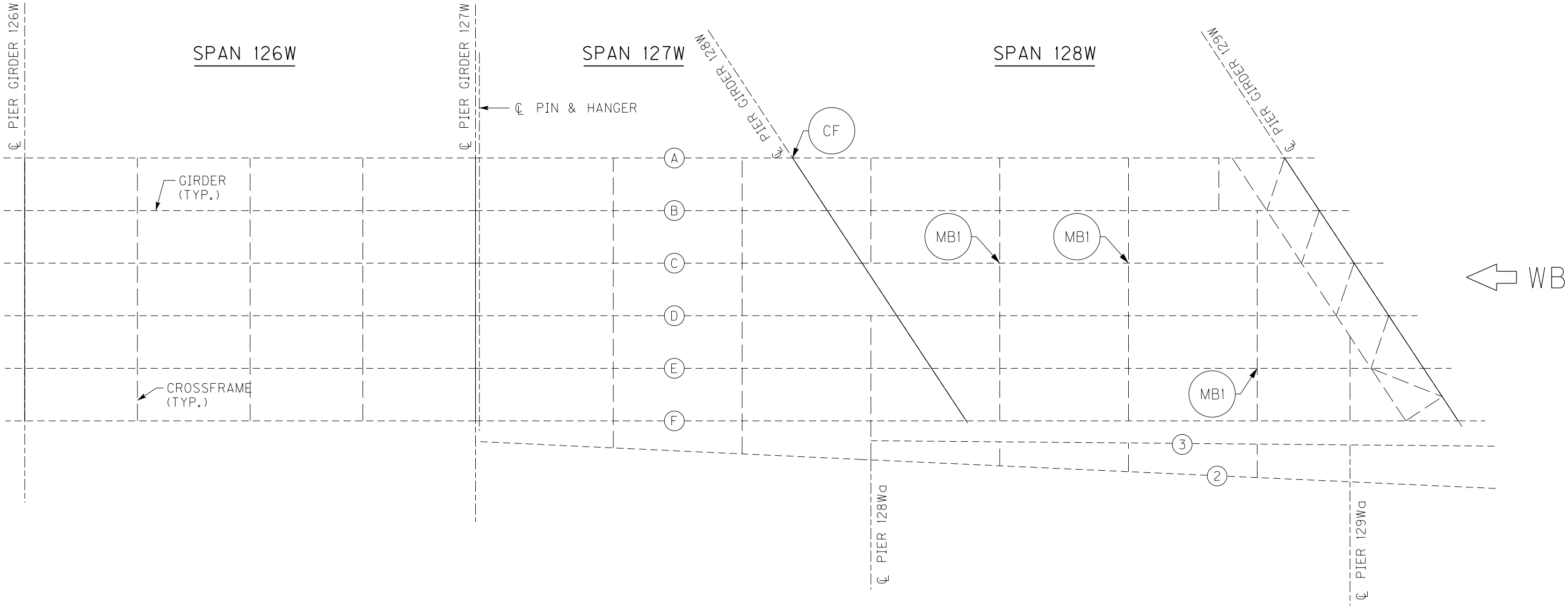
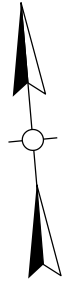
- 1. FOR CS CRACK RETROFIT, SEE SHEET NO. S87.
- 2. FOR MB1 MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 37  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S77                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

BRIDGE - B142

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3RD TO PRESTON ST BRIDGE



PARTIAL FRAMING PLAN

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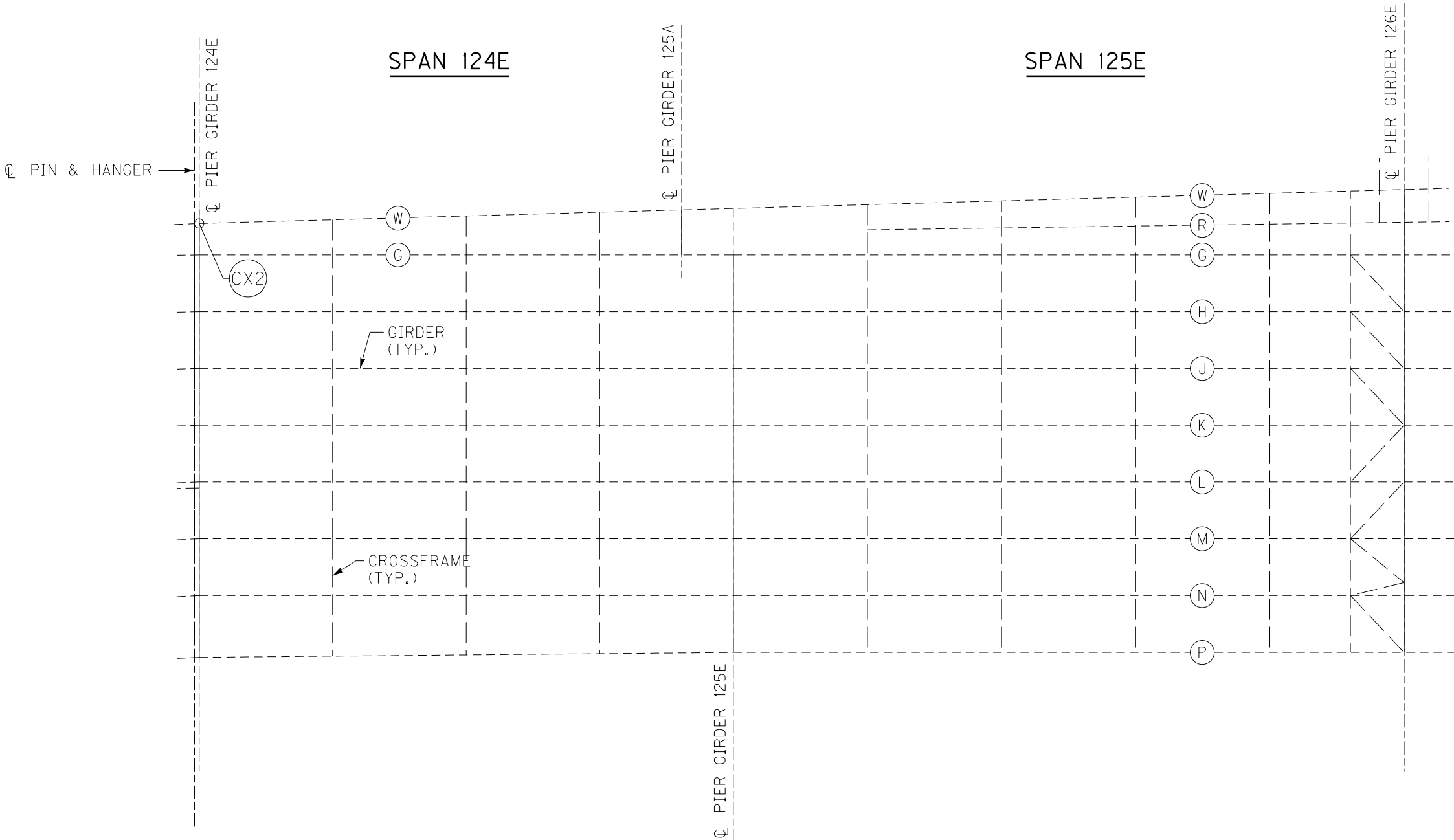
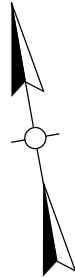
- FOR CF CRACK RETROFIT, SEE SHEET NO. S88.
- FOR MBI MISSING BOLT RETROFIT, SEE SHEET NO. S91.

BRIDGE – B142

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 38  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S78                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

3RD TO PRESTON ST BRIDGE



PARTIAL FRAMING PLAN

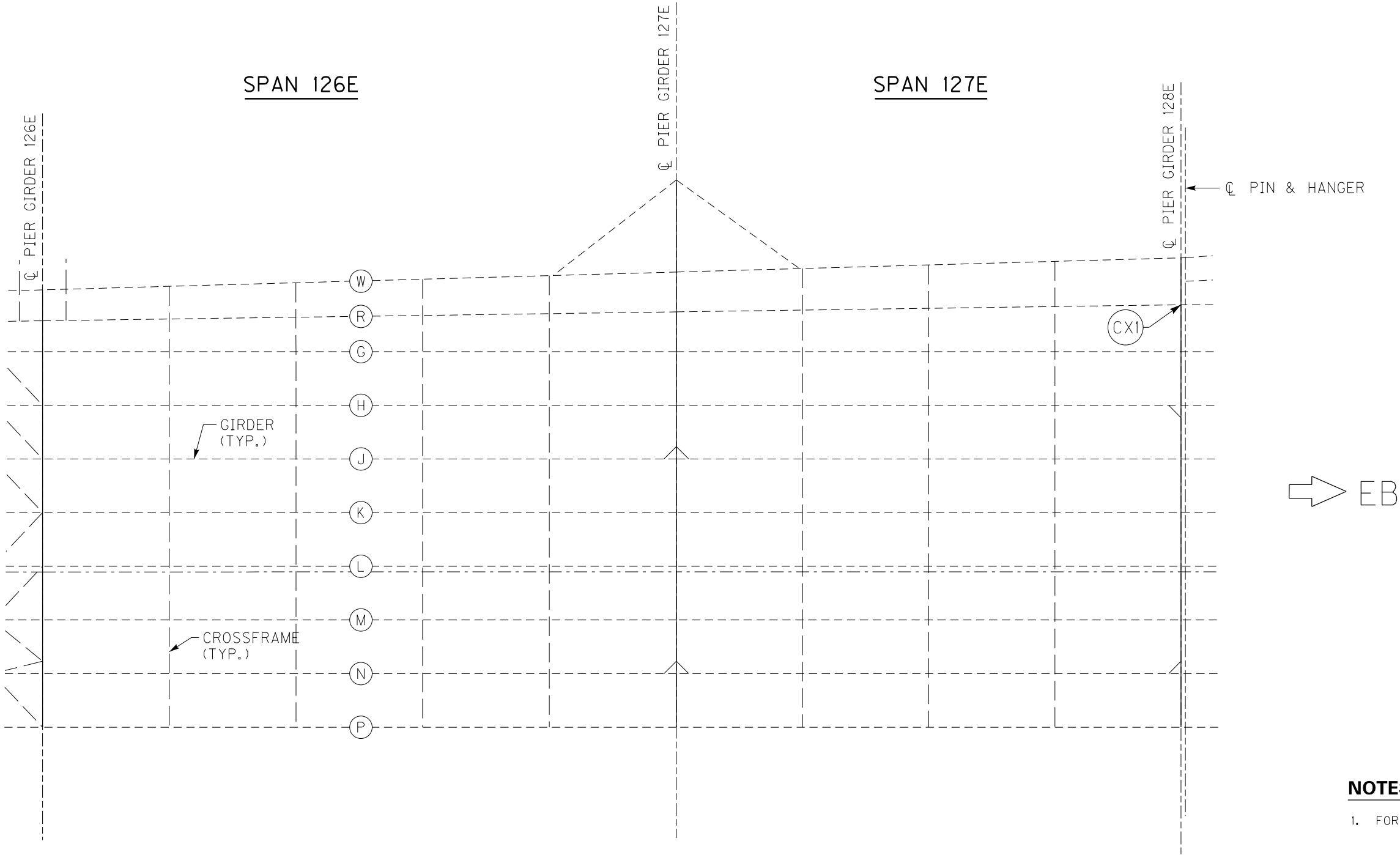
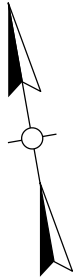
- NOTES**
- 1. FOR CX2 CRACK RETROFIT, SEE SHEET NO. S88.

BRIDGE – B142

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                                      |  |
| DATE: AUGUST 2025   |  | CHECKED BY                                |  |
| DESIGNED BY: L CLARK  |  | M BARON                                   |  |
| DETAILED BY: MJ DWYER   |  | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE RETROFIT LAYOUT – 39  |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| Michael Baker<br>INTERNATIONAL  |  | S79                                       |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                      |  |

3RD TO PRESTON ST BRIDGE



PARTIAL FRAMING PLAN

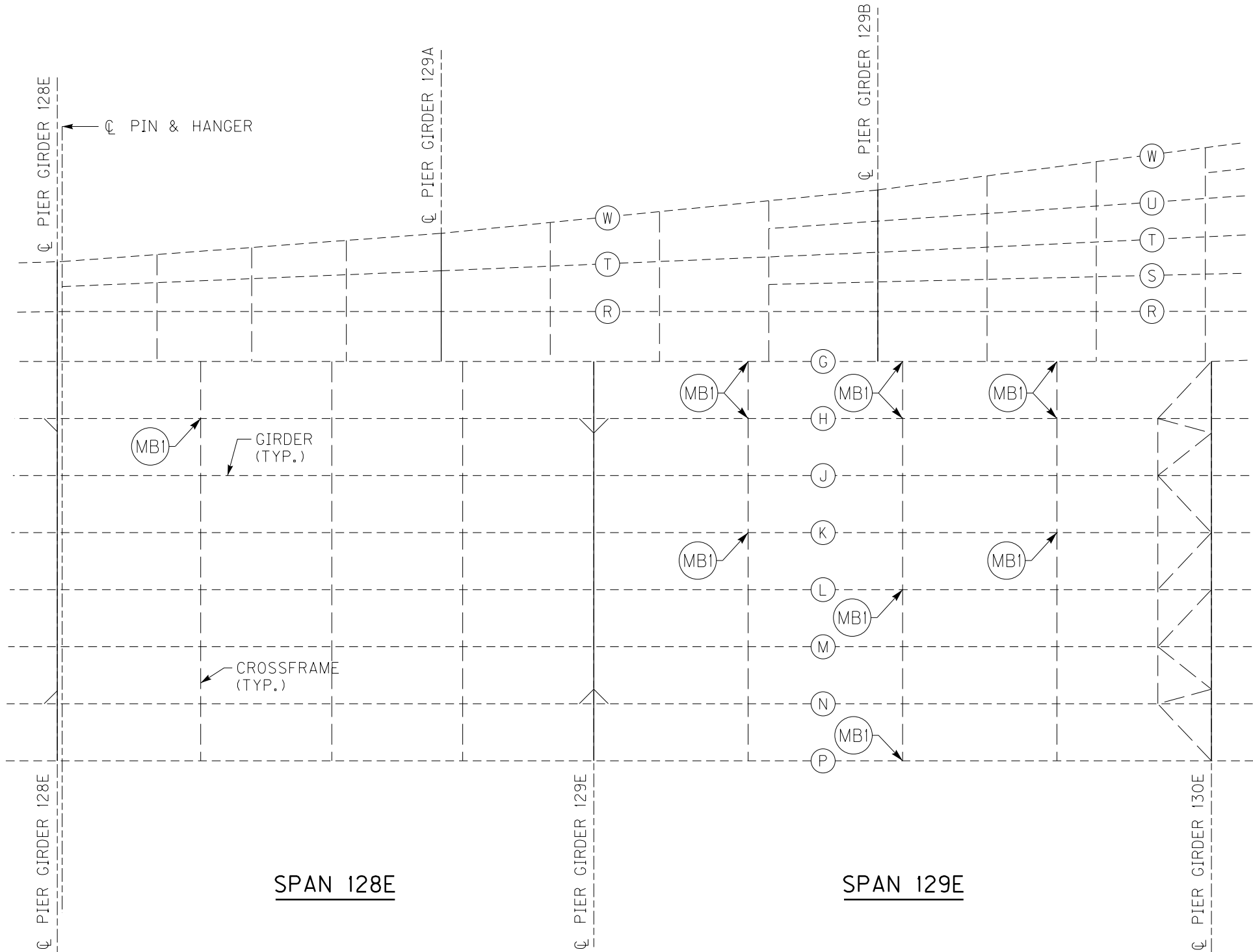
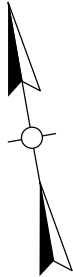
- NOTES**
- FOR CXI CRACK RETROFIT, SEE SHEET NO. S88.

BRIDGE – B142

| ITEM NUMBER |
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| 5-10016     |

3RD TO PRESTON ST BRIDGE

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 40  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S80                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

BRIDGE – B142

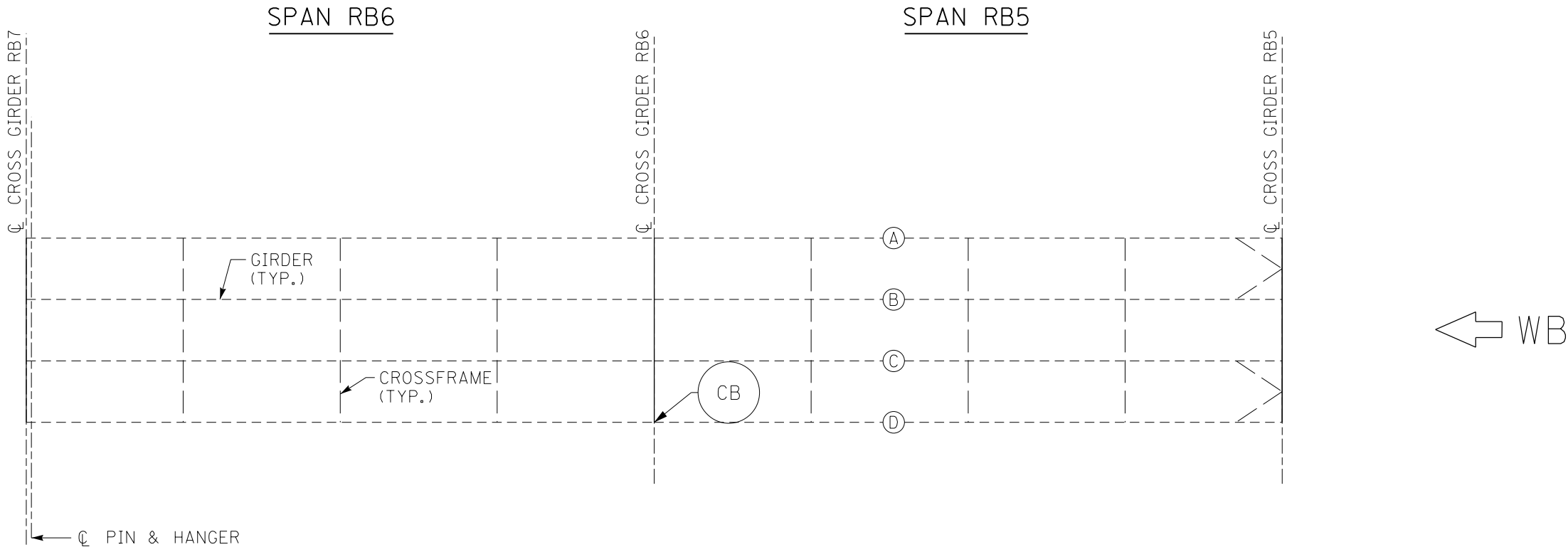
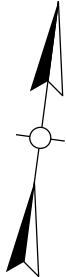
| ITEM NUMBER |
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| 5-10016     |

3RD TO PRESTON ST BRIDGE

NOTES

1. FOR MISSING BOLT RETROFIT, SEE SHEET NO. S91.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 41  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S81                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |



PARTIAL FRAMING PLAN

NOTES

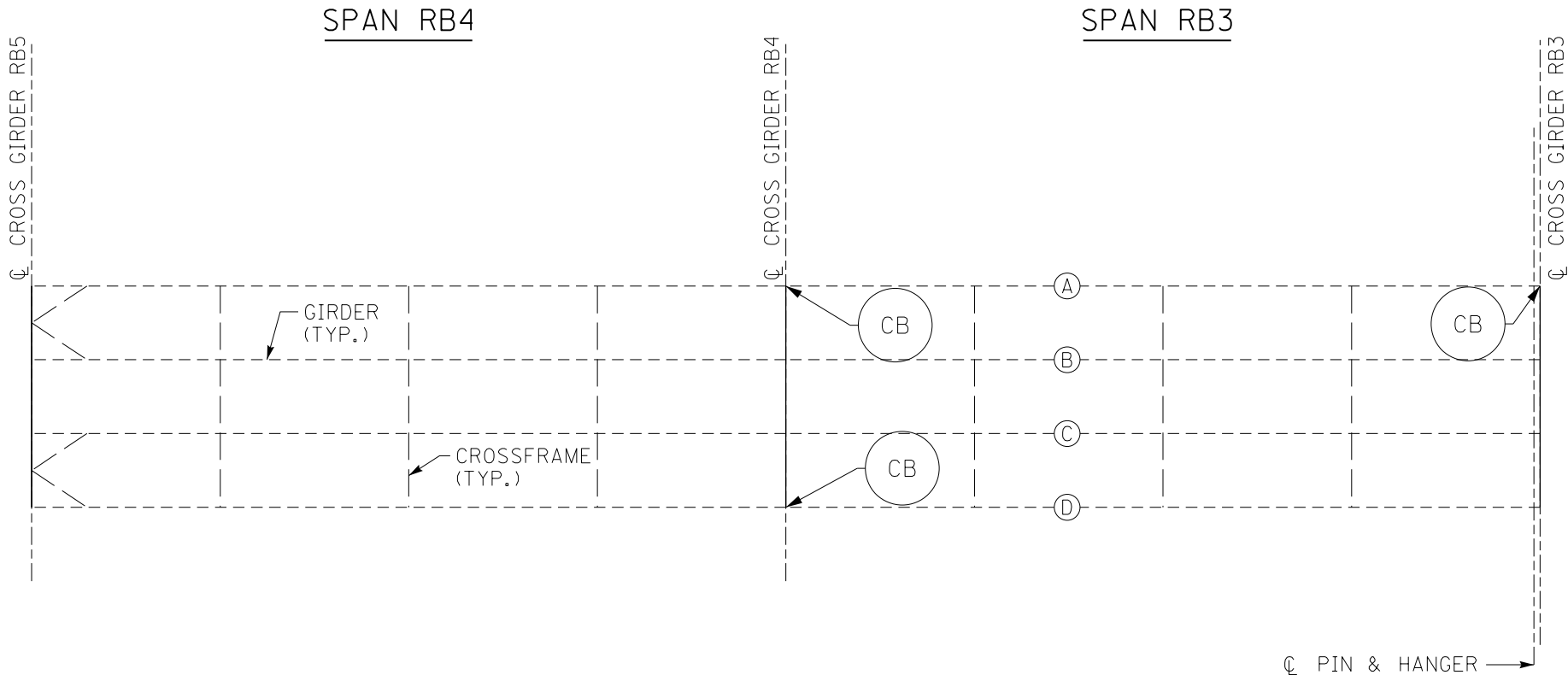
1. FOR CB CRACK RETROFIT, SEE SHEET NO. S87.

BRIDGE – B142

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 42  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |   | S82                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

3RD TO PRESTON ST BRIDGE



PARTIAL FRAMING PLAN

- NOTES**
- 1. FOR CB CRACK RETROFIT, SEE SHEET NO. S87.

BRIDGE – B142

| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: L CLARK  | M BARON                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE RETROFIT LAYOUT – 43  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |   | S83                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   | DRAWING NO.<br>28870 |

3RD TO PRESTON ST BRIDGE

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER@MBAKERINTL.COM\DWYER

USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023

MicroStation v23.00.03.05 E-SHEET NAME: S23464 001

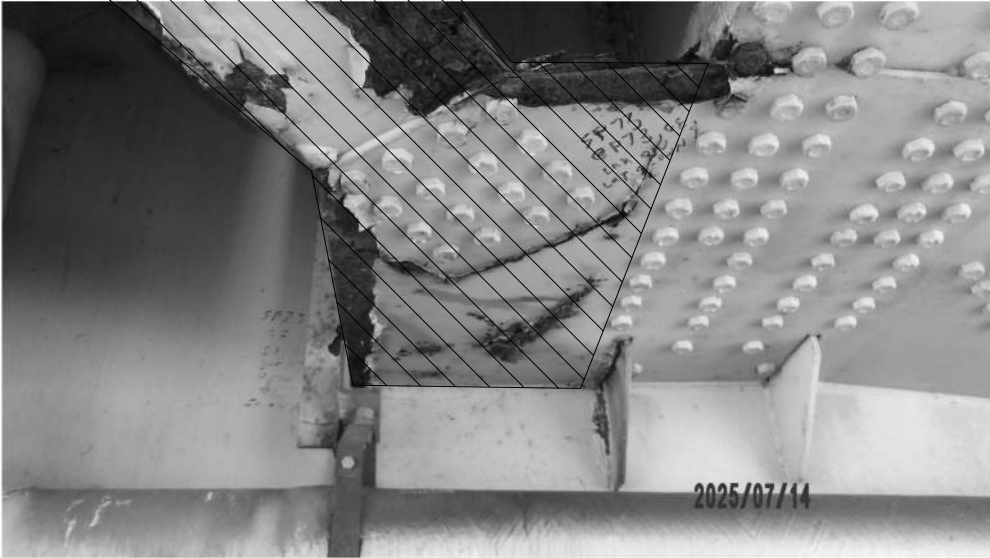
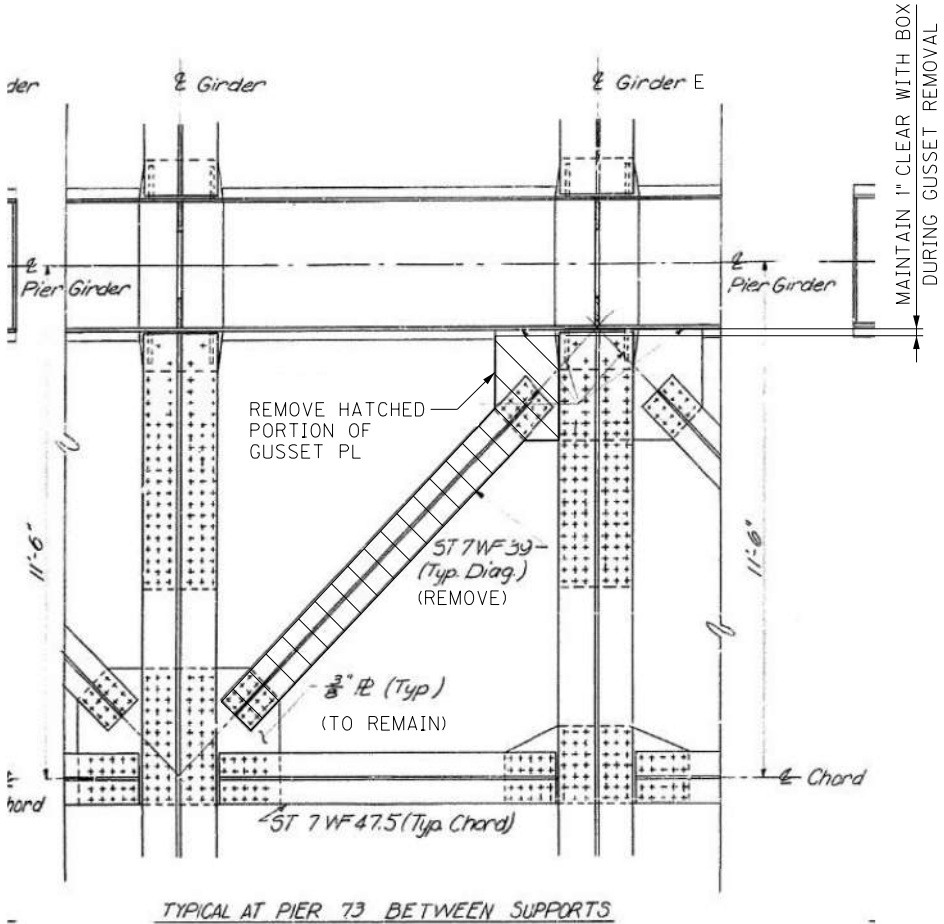
| CRACK RETROFIT SUMMARY |  |
|------------------------|--|
| REPAIR                 | WORK DESCRIPTION   |
| BB                     | INSTALL DOGBONE. DRILL (2) 2.25" DIAMETER HOLES AND SAWCUT BETWEEN HOLES.  |
| BS1                    | GRIND SMOOTH BOTH EXISTING SAWCUT EDGES. INSTALL BOLTED STEEL REPAIR W/(2) BENT ANGLES.                              |
| BS2                    | GRIND WELD ON BOTH SIDES AT TOP OF THE STIFFENER TO INSTALL GAP AND INSTALL 0.5" DIAMETER HOLE.                      |
| CB                     | LOCATE END OF CRACK AND INSTALL 1" DIAMETER HOLE.  |
| CC                     | LOCATE END OF CRACK AND INSTALL 0.5" DIAMTER HOLE IN CONNECTION PLATE.   |
| CF                     | LOCATE ENDS OF CRACKS AND INSTALL (2) 1.5" DIAMETER HOLES.   |
| CS                     | GRIND WELD ON BOTH SIDES AT TOP OF THE STIFFENER TO INSTALL GAP AND INSTALL 0.5" DIAMETER HOLE.                      |
| CX1                    | LOCATE ENDS OF CRACKS AND INSTALL 3" DIAMETER HOLE THROUGH WEB PLATE. LEAVE WEB PLUG.                                |
| CX2                    | LOCATE ENDS OF CRACKS AND INSTALL (2) 2" DIAMETER HOLES THROUGH WEB PLATE. 1 EACH SIDE OF CONNECTION PLATE.          |
| FB                     | LOCATE END OF CRACK AND INSTALL 1" DIAMETER HOLE.  |
| FP                     | GRIND WELD ON BOTH SIDES AT TOP OF THE STIFFENER TO INSTALL GAP AND INSTALL 0.5" DIAMETER HOLE.                      |
| FS                     | LOCATE END OF CRACK AND INSTALL (2) 1.5" DIAMETER HOLES. 1 EACH SIDE OF STIFFENER.                                   |
| FT                     | LOCATE END OF CRACK AND INSTALL 1" DIAMETER HOLE.  |
| GC                     | INSTALL DOGBONE. DRILL (2) 2.25" DIAMETER HOLES AND SAWCUT BETWEEN HOLES.  |
| GF                     | LOCATE ENDS OF CRACKS AND INSTALL 2" DIAMETER HOLE THROUGH BEARING STIFFENER PLATE.                                  |
| GP                     | LOCATE END OF CRACK AND INSTALL 1" DIAMETER HOLE.  |
| MB1                    | INSTALL (4) BOLTS IN THE UPPER GUSSET CONNECTION PLATE AND (4) BOLTS IN LOWER GUSSET CONNECTION PLATE OF CROSSFRAME. |
| MB2                    | INSTALL (8) BOLTS IN THE GIRDER END CONNECTION PLATE TO THE CROSS GIRDER WEB.  |

GENERAL NOTES FOR CRACK RETROFITS

- LOCATE ENDS OF CRACKS USING NON-DESTRUCTIVE TESTING METHODS MAGNETIC PARTICLE (MT) OR DYE PENETRANT (PT) PERFORMED BY AN ASNT LEVEL II TECHNICIAN PRIOR TO DRILLING A HOLE. AFTER A CRACK ARREST HOLE IS DRILLED, PERFORM NON-DESTRUCTIVE TESTING AGAIN TO ENSURE CRACK TIP WAS CAPTURED BY THE HOLE.
- SAND THE EDGES OF THE DRILLED HOLE USING AN 80 TO 100 GRIT FLAP WHEEL WITH AN ANGLE GRINDER ON THE EXTERIOR EDGES AND 80 TO 100 GRIT FLAP WHEEL WITH A DIE GRINDER ON THE INTERIOR EDGES. SAND UNTIL THE SURFACES ARE SMOOTH AND FREE OF CUTTING MARKS AND GOUGES.
- REMOVE AND PROPERLY DISPOSE ALL FOREIGN MATERIAL SUCH AS RUST, DRILLING SHAVINGS AND SANDING DUST FROM THE REPAIR AREA AND STEEL SURFACES BELOW THE REPAIR AREA.
- CLEAN AND PREPARE ALL REPAIR SURFACES TO BE PAINTED IN ACCORDANCE WITH SPECIAL NOTE FOR PAINTING STRUCTURAL STEEL REPAIRS.
- APPLY ORGANIC ZINC RICH PRIMER TO THE CLEANED AREA IN ACCORDANCE WITH SECTION 607.03.23 OF THE STANDARD SPECIFICATIONS.

NOTES FOR BOX GIRDER LATERAL BRACING REPAIR

- USE MECHANICAL METHODS TO CUT AND REMOVE THE HATCHED AREA OF THE GUSSET PLATE.
- NO FLAME CUTTING OR PLASMA CUTTING IS ALLOWED.
- CUT THE GUSSET PLATE FLUSH WITH THE BOTTOM FLANGE OF GIRDER E.
- DAMAGE TO THE BOX GIRDER OR GIRDER AS A RESULT OF THE CONTRACTOR'S ACTIONS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- CLEAN AND PREPARE ALL REPAIR SURFACES TO BE PAINTED IN ACCORDANCE WITH SPECIAL NOTE FOR PAINTING STRUCTURAL STEEL REPAIRS.
- PAYMENT FOR ALL LABOR, TOOLS, EQUIPMENT AND INCIDENTALS TO REMOVE THE GUSSET PLATE AND BRACING MEMBER IS INCLUDED IN THE BID ITEM "STEEL REPAIR - LATERAL BRACING".



BOX GIRDER 73 – EAST FACE AT GIRDER E



BOX GIRDER 74 – WEST FACE AT GIRDER E

LEGEND

 GUSSET PLATE AND DIAGONAL MEMBER REMOVAL LIMITS

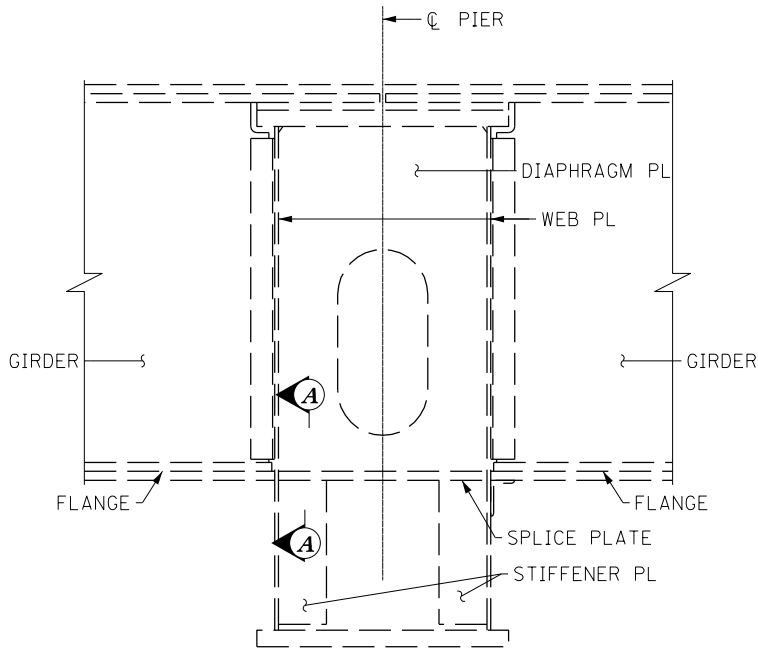
ITEM NUMBER

5-10016

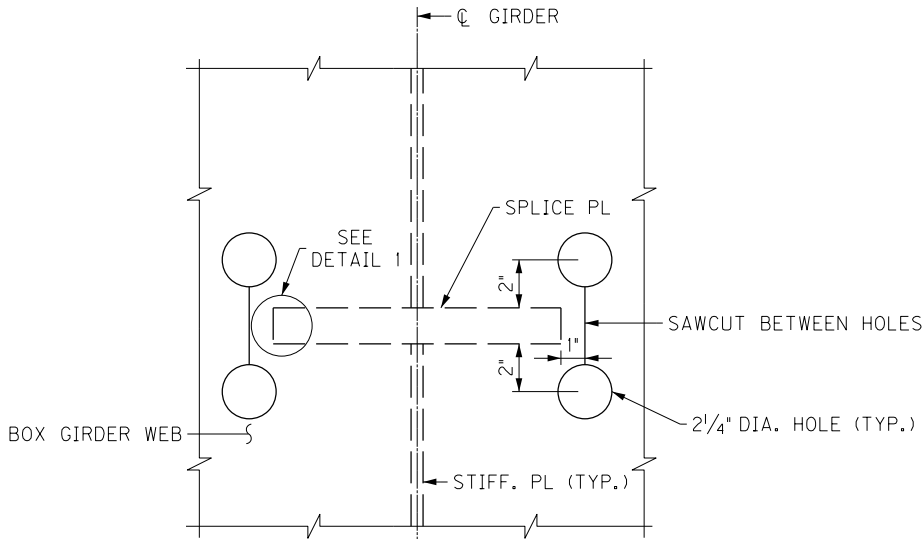
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| REVISION   |  | DATE  |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY  |  |
| DESIGNED BY: M BARON                               |  | MJ DWYER  |  |
| DETAILED BY: MJ DWYER                              |  | M BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I TT RR TO PRESTON STREET   |  |
| CRACK RETROFIT SUMMARY                             |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>  |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | S84   |  |
|  |  | DRAWING NO.<br>28870  |  |



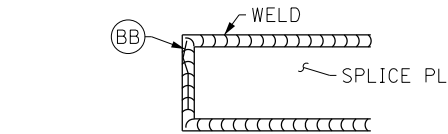
FILE NAME: C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER\MBAKERINTL.COM  
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023  
E-SHEET NAME: S23464 020  
MicroStation v10.17.01.58



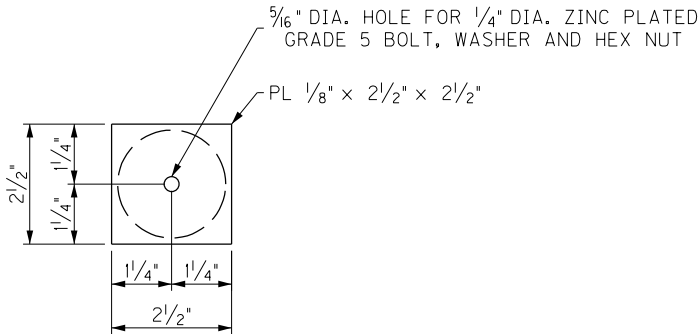
SECTION AT PIER BOX GIRDER



SECTION A-A  
BB CRACK RETROFIT



DETAIL 1



HOLE COVER DETAIL

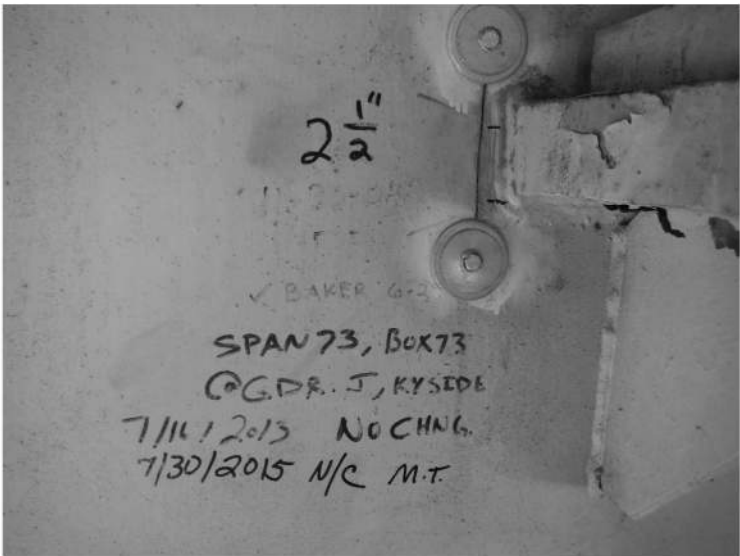
COVER DOG BONE RETROFIT HOLES WITH CAP PLATES



VIEW OF SPLICE PLATE AT PIER BOX GIRDER



COMPLETED DOG BONE RETROFIT



DOG BONE RETROFIT WITH HOLE COVERS

BB CRACK RETROFIT NOTES

1. FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
2. MARK LOCATIONS FOR THE 2 1/4" DIAMETER HOLES.
3. CORE HOLES THROUGH BOX GIRDER WEB.
4. SAWCUT BETWEEN CORE HOLES.
5. INSTALL HOLE COVERS.

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| REVISION   |   | DATE  |
| DATE: AUGUST 2025                                  | CHECKED BY                                |   |
| DESIGNED BY: M BARON                               | J STITH                                   |   |
| DETAILED BY: MJ DWYER                              | M BARON                                   |   |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |   |   |
| COUNTY<br>JEFFERSON                                |   |   |
| ROUTE<br>I-64                                      | CROSSING<br>K & I TT RR TO PRESTON STREET |   |
| FATIGUE CRACK RETROFIT – 1                         |   |   |
| PREPARED BY  |   | SHEET NO.<br>S85  |
| Michael Baker<br>INTERNATIONAL                     |   | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |
|  |   | DRAWING NO.<br>28870  |

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| ITEM NUMBER |
| 5-10016     |

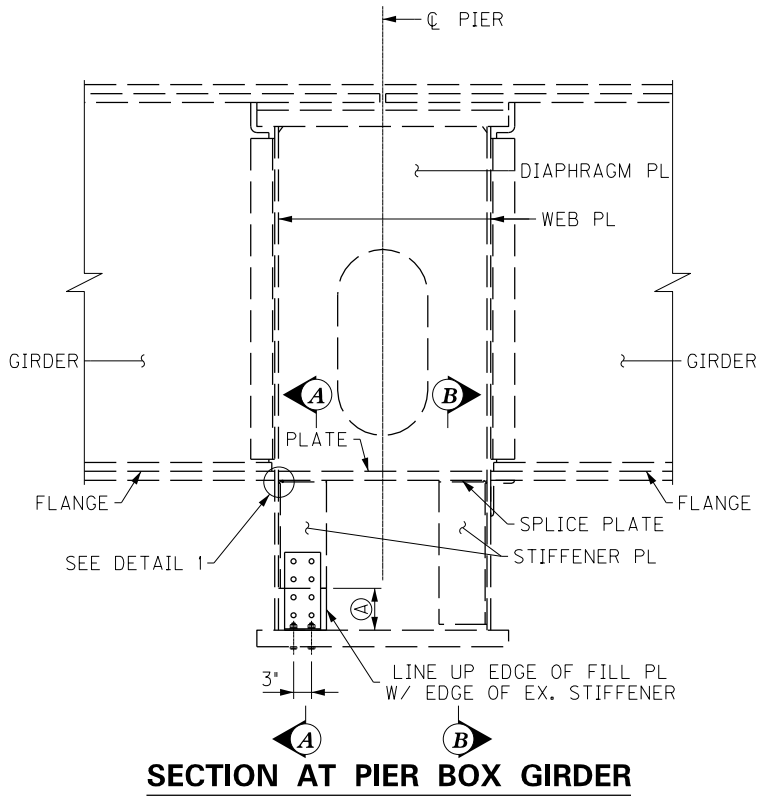
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USER: MaryJo.Dwyer

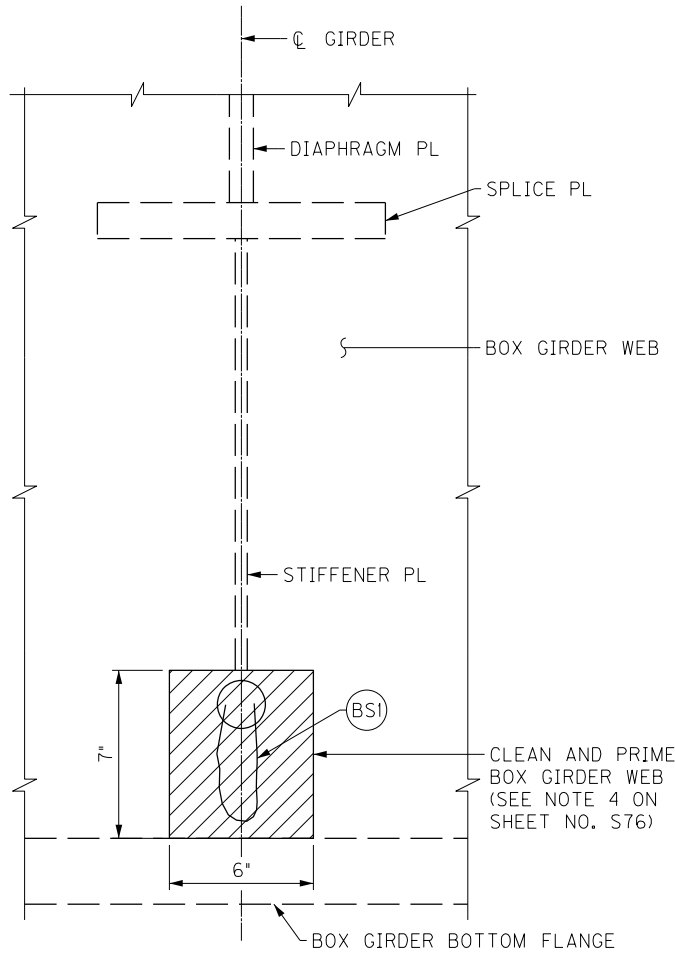
DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

MicroStation v10.17.01.58



SECTION AT PIER BOX GIRDER

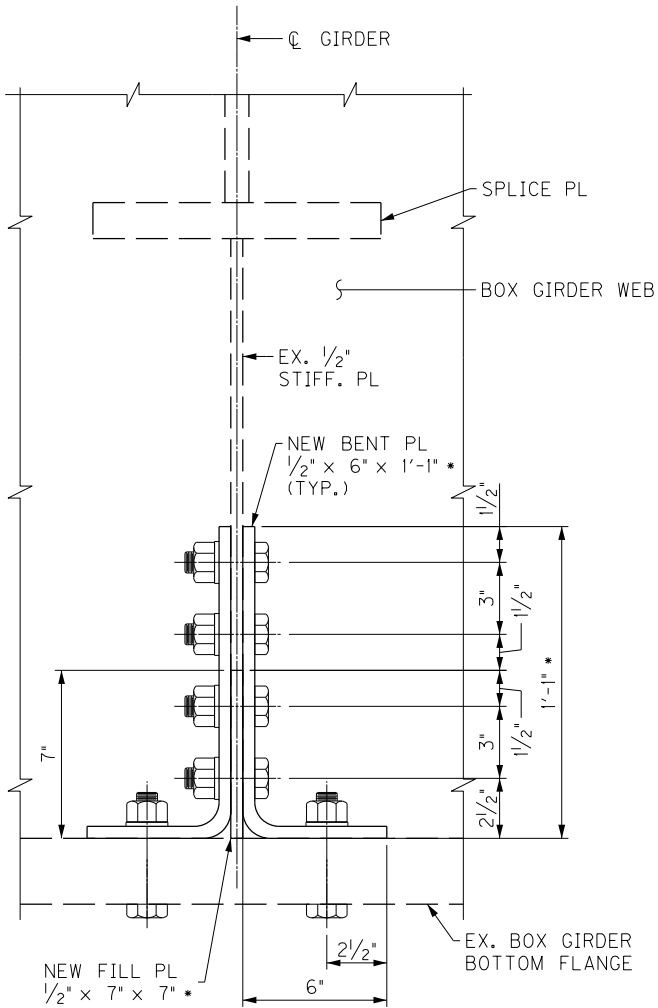


SECTION A-A

SHOWING PREVIOUS BS CRACK RETROFIT

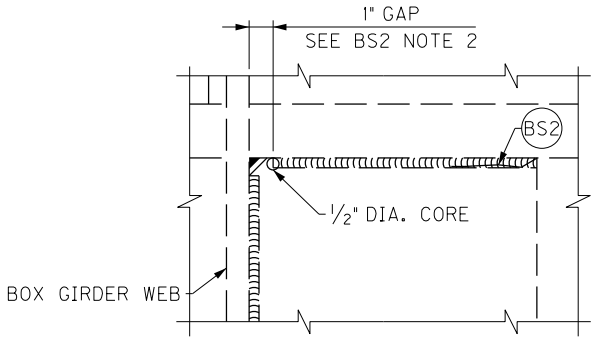


TYPICAL BS2 CRACK



SECTION A-A

TYPICAL BS1 RETROFIT



DETAIL 1

TYPICAL BS2 RETROFIT



EXISTING BS1 CRACK RETROFIT

BS1 CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE THE CRACK TIP IS LOCATED WITHIN THE CORE HOLE. DRILL 1" DIAMETER HOLE.
- GRIND SMOOTH THE EXISTING SAWCUT EDGE AT BOTTOM OF STIFFENER PLATE BEFORE INSTALLING THE BOLTED RETROFIT.
- POSITION BENT PLATES TO CLEAR THE WELD OF THE BOX GIRDER. MARK THE HOLE CENTERS ON STIFFENER PLATE.
- FIELD DRILL HOLES INTO BOX GIRDER FLANGE AND STIFFENER PLATE FOR RETROFIT.
- FURNISH AND INSTALL GALVANIZED 7/8" DIAMETER F3125 GRADE A325 TYPE 1 HIGH STRENGTH BOLTS, F436 HARDENED WASHERS, AND ASTM A583 NUTS IN ACCORDANCE WITH 607.03.05 OF THE STANDARD SPECIFICATIONS.

BS2 CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- INTENT OF DETAIL IS TO INSTALL A GAP AND PREVENT A HORIZONTAL CRACK FROM REACHING THE BOX GIRDER WEB.
- CAREFULLY REMOVE MATERIAL WITH A CARBIDE BURR GRINDER WITHIN THE GAP AREA WITHOUT DISTURBING THE BOX GIRDER WEB PLATE. PLACE A 1/2" DIAMETER HOLE TO FACILITATE INSTALLATION OF THE GAP.

LEGEND

- EX. STIFFENER PL CUT IN PREVIOUS CRACK RETROFIT, ASSUMED DIMENSION 7".
- NEW STIFFENER PL AND NEW BENT PL DIMENSIONS MUST ADJUST IF LENGTH OF STIFFENER REMOVED IS NOT 6". SPACING BETWEEN BOLTS MAY ADJUST, BUT MAINTAIN THE 1/2" EDGE DISTANCE ON NEW STIFFENER PLATE AND NEW BENT PLATE.

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| REVISION  |   | DATE                 |
| DATE: AUGUST 2025   | CHECKED BY                                |                      |
| DESIGNED BY: M BARON  | J STITH                                   |                      |
| DETAILED BY: MJ DWYER   | M BARON                                   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>K & I TT RR TO PRESTON STREET |                      |
| FATIGUE CRACK RETROFIT – 2  |   |                      |
| PREPARED BY   |   | SHEET NO.<br>S86     |
| Michael Baker<br>INTERNATIONAL  |   | DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |   |                      |

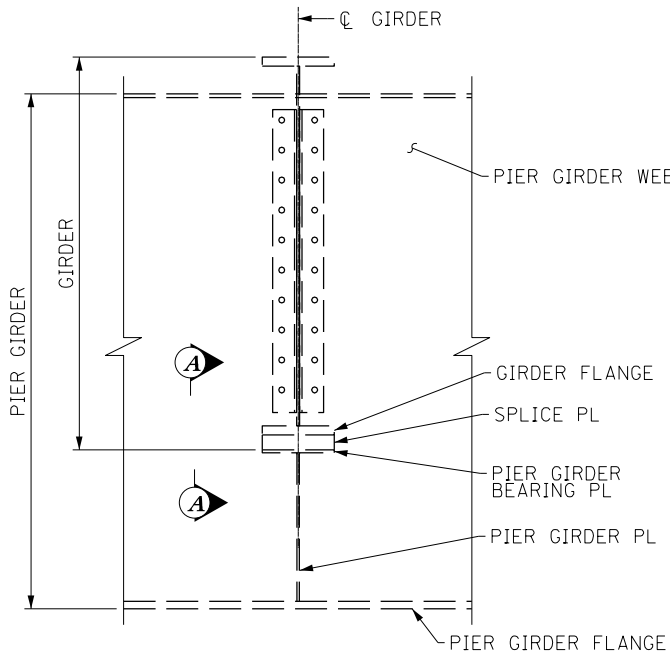
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USER: MaryJo.Dwyer

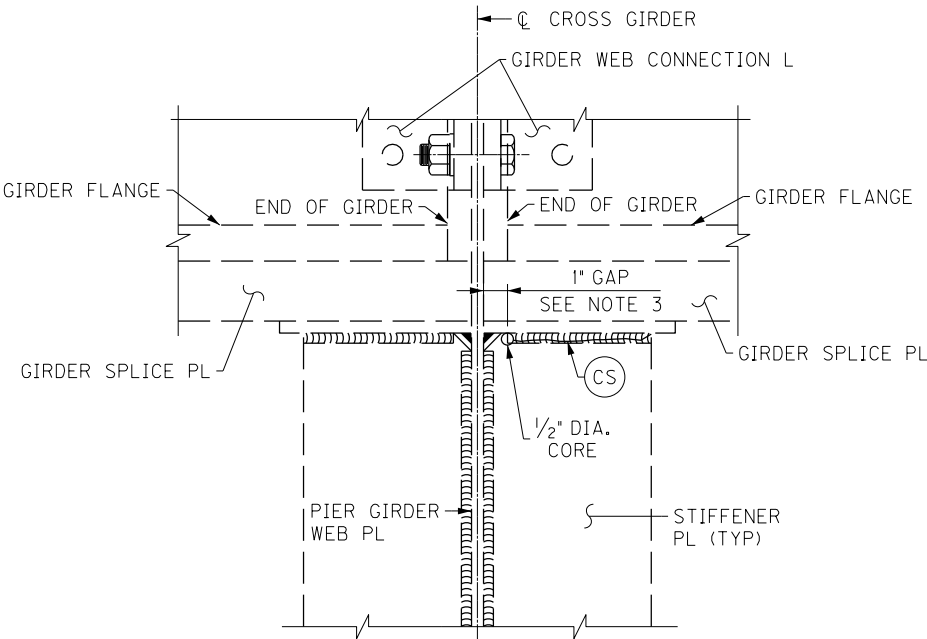
DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

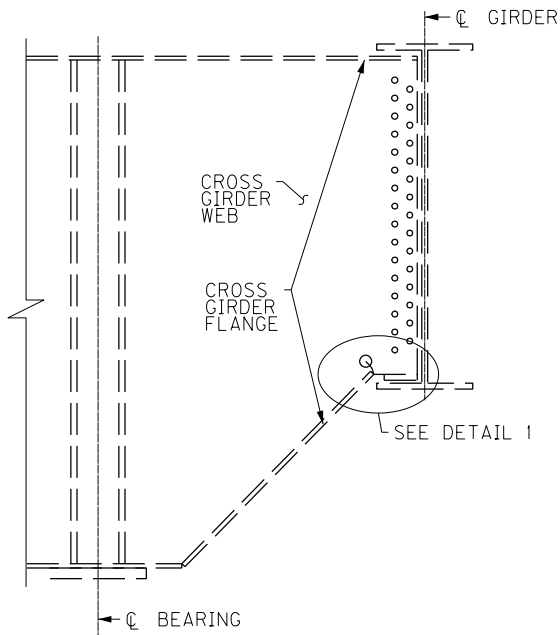
MicroStation v10.17.01.58



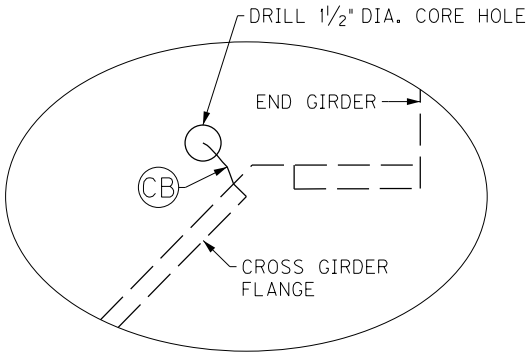
SECTION AT GIRDER  
CS CRACK



SECTION A-A  
TYPICAL CS CRACK RETROFIT



SECTION AT CROSS GIRDER END  
CB CRACK



DETAIL 1  
TYPICAL CB CRACK RETROFIT

CS CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- INTENT OF DETAIL IS TO INSTALL A GAP AND PREVENT A HORIZONTAL CRACK FROM REACHING THE CROSS GIRDER WEB.
- CAREFULLY REMOVE MATERIAL WITH A CARBIDE BURR GRINDER WITHIN THE GAP AREA WITHOUT DISTURBING THE CROSS GIRDER WEB PLATE. GRIND ON BOTH SIDES OF STIFFENER PLATE. PLACE A 1/2" DIAMETER HOLE TO FACILITATE INSTALLATION OF THE GAP.

CB CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE THE CRACK TIP IS LOCATED WITHIN THE CORE HOLE.
- DRILL 1 1/2" DIAMETER HOLE.



TYPICAL CS CRACK



TYPICAL CB CRACK

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| REVISION   |  | DATE  |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY  |  |
| DESIGNED BY: M BARON                               |  | J STITH   |  |
| DETAILED BY: MJ DWYER                              |  | M BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I TT RR TO PRESTON STREET   |  |
| FATIGUE CRACK RETROFIT – 3                         |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| <div>Michael Baker</div> INTERNATIONAL             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | DRAWING NO.<br>28870  |  |

FILE NAME: C:\USERS\MARYJO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARYJO.DWYER\MBAKERINTL.COM

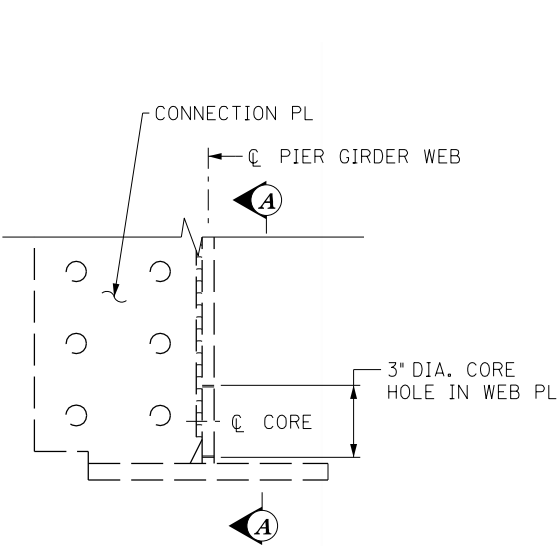
USER: MaryJo.Dwyer  
DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

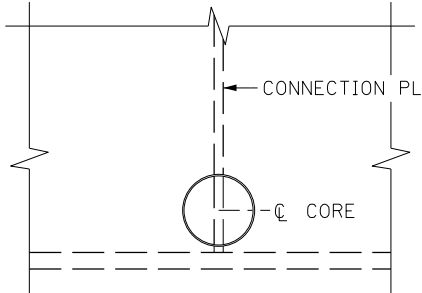
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TYPICAL CC CRACK RETROFIT



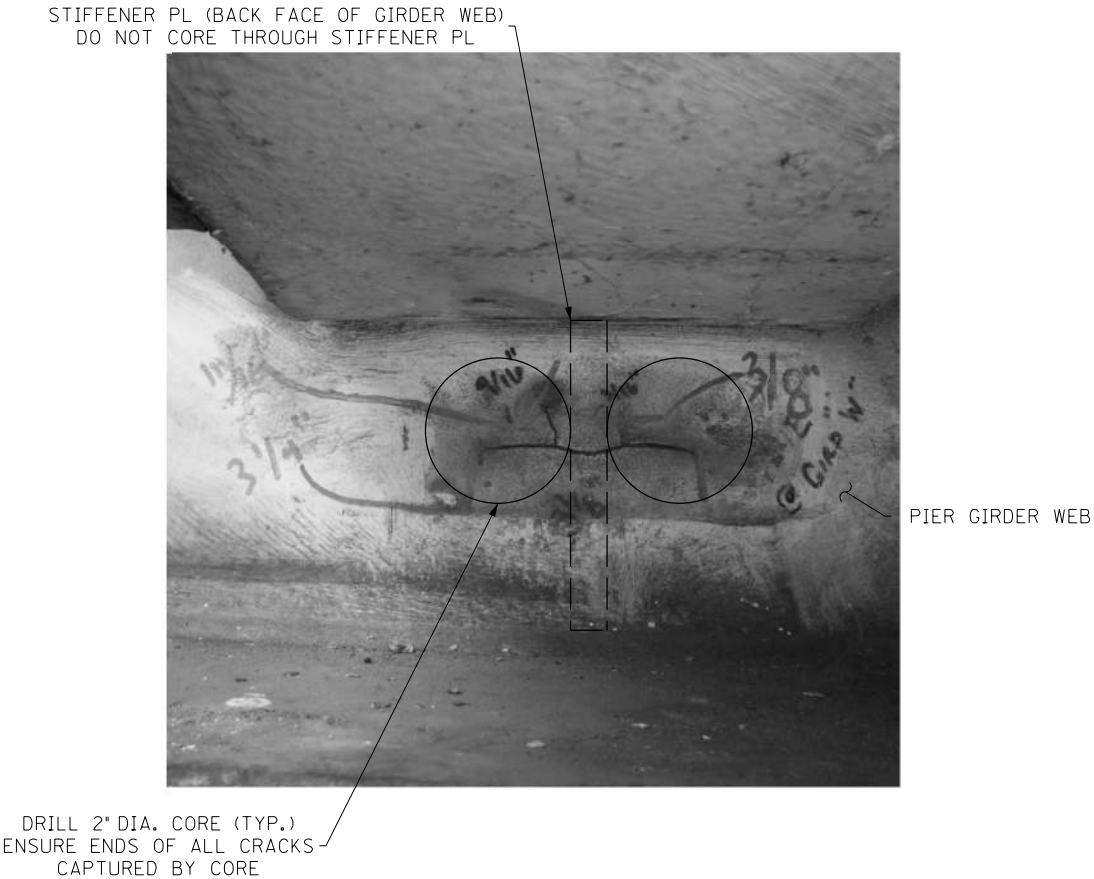
CX1 CRACK RETROFIT



SECTION A-A



TYPICAL CF CRACK RETROFIT



CX2 CRACK RETROFIT

PIER GIRDER 124E

CC CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE THE CRACK TIPS ARE LOCATED WITHIN THE CORE HOLES. MARK THE HOLE LOCATIONS.
- DRILL 1/2" DIAMETER HOLE.

CF CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE THE CRACK TIPS ARE LOCATED WITHIN THE CORE HOLES. MARK THE HOLE LOCATIONS.
- DRILL 1/2" DIAMETER HOLES.

CX1 CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE CORE PLACEMENT CAPTURES THE CRACK ON THE NORTH AND SOUTH SIDE OF THE CONNECTION PLATE.
- CORE THROUGH THE CROSS GIRDER WEB PLATE. LEAVE THE WEB PLUG IN PLACE.
- ENSURE THE CRACK TIPS ARE LOCATED WITHIN THE CORE HOLE.
- DRILL 3" DIAMETER HOLE.

CX2 CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE THE CRACK TIPS ARE LOCATED WITHIN THE CORE HOLES. MARK THE HOLE LOCATIONS.
- DRILL 2" DIAMETER HOLES.

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| REVISION   |  | DATE  |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY  |  |
| DESIGNED BY: M BARON                               |  | J STITH   |  |
| DETAILED BY: MJ DWYER                              |  | M BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I TT RR TO PRESTON STREET   |  |
| FATIGUE CRACK RETROFIT – 4                         |  |   |  |
| PREPARED BY  |  | SHEET NO.<br>S88  |  |
| <div>Michael Baker<br/>INTERNATIONAL</div>         |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | DRAWING NO.<br>28870  |  |

Michael Baker  
INTERNATIONAL

1650 Lyndon Farm Court  
Louisville, KY 40223  
Phone: (502) 339-3557  
mbakerintl.com

## GIRDER FLOORBEAM ELEVATION

## SECTION A-A

## DETAIL 1

1. FOR GENERAL NOTES FOR CRACK RETROFITS,  
SEE SHEET NO. S84.
2. MARK LOCATIONS FOR THE 2 1/4" DIAMETER HOLES.
3. CORE HOLES THROUGH GIRDER WEB.
4. SAWCUT BETWEEN CORE HOLES.

1. FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
2. ENSURE THE CRACK TIP IS LOCATED WITHIN THE CORE HOLE.
3. DRILL 2" DIAMETER HOLE.
4. REMOVE REMAINING MATERIAL FROM THE HATCHED AREA WITH A CARBIDE BURR GRINDER. BE CAREFUL NOT TO GOUGE THE GIRDER WEB.

1. FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
2. ENSURE THE CRACK TIP(S) ARE LOCATED WITHIN THE CORE HOLE(S).
3. DRILL 1" DIAMETER HOLE(S).

### TYPICAL GP CRACK

SHOWING COMPLETED RETROFIT

### TYPICAL GP CRACK

## TYPICAL GF CRACK RETROFIT

|             |
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| ITEM NUMBER |
| 5-10016     |

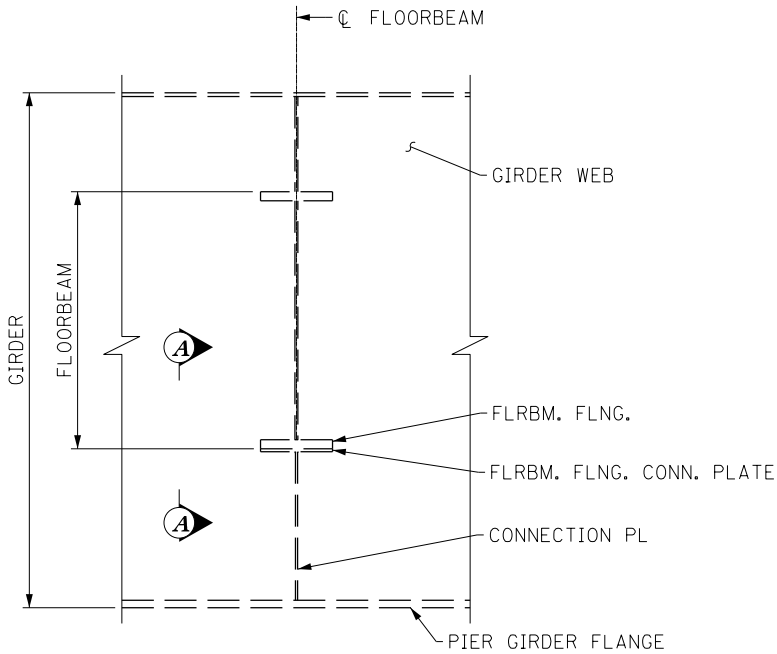
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USER: MaryJo.Dwyer

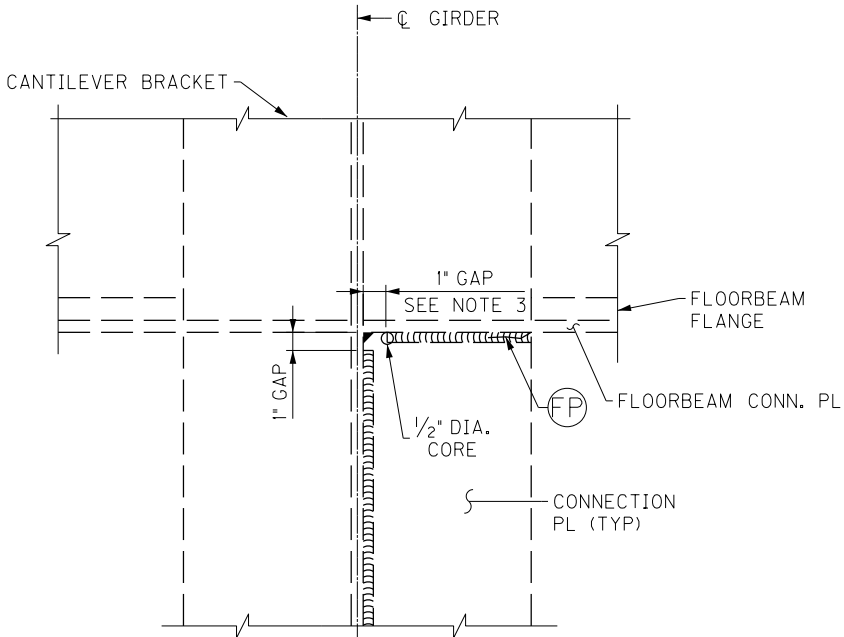
DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

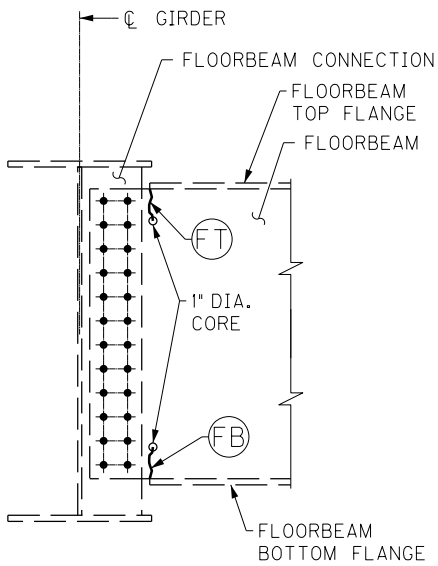
MicroStation v10.17.01.58



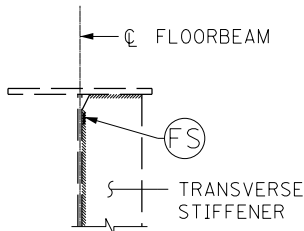
SECTION AT GIRDER  
FP CRACK



SECTION A-A  
TYPICAL FP CRACK RETROFIT



FLOORBEAM END DETAIL  
TYPICAL FB & FT CRACK RETROFIT



STIFFENER DETAIL  
STRINGER NOT SHOWN



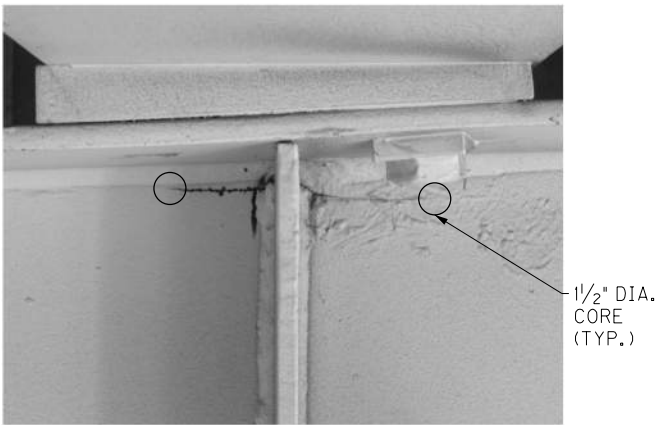
TYPICAL FP CRACK



TYPICAL FT CRACK



TYPICAL FB CRACK



TYPICAL FS CRACK RETROFIT



COMPLETED FS CRACK RETROFIT

FP CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- INTENT OF DETAIL IS TO INSTALL A GAP AND PREVENT A HORIZONTAL CRACK FROM REACHING THE CROSS GIRDER WEB.
- CAREFULLY REMOVE MATERIAL WITH A CARBIDE BURR GRINDER WITHIN THE GAP AREA WITHOUT DISTURBING THE CROSS GIRDER WEB PLATE. GRIND ON BOTH SIDES OF STIFFENER PLATE. PLACE A 1/2" DIAMETER HOLE TO FACILITATE INSTALLATION OF THE GAP.

FB, FS, FT CRACK RETROFIT NOTES

- FOR GENERAL NOTES FOR CRACK RETROFITS, SEE SHEET NO. S84.
- ENSURE THE CRACK TIP IS LOCATED WITHIN THE CORE HOLE.
- DRILL HOLE(S) PER THE ASSOCIATED DETAIL.

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| REVISION  |  | DATE                                      |  |
| DATE: AUGUST 2025   |  | CHECKED BY                                |  |
| DESIGNED BY: M BARON  |  | J STITH                                   |  |
| DETAILED BY: MJ DWYER   |  | M BARON                                   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>K & I TT RR TO PRESTON STREET |  |
| FATIGUE CRACK RETROFIT – 6  |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |  | S90                                       |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870                      |  |

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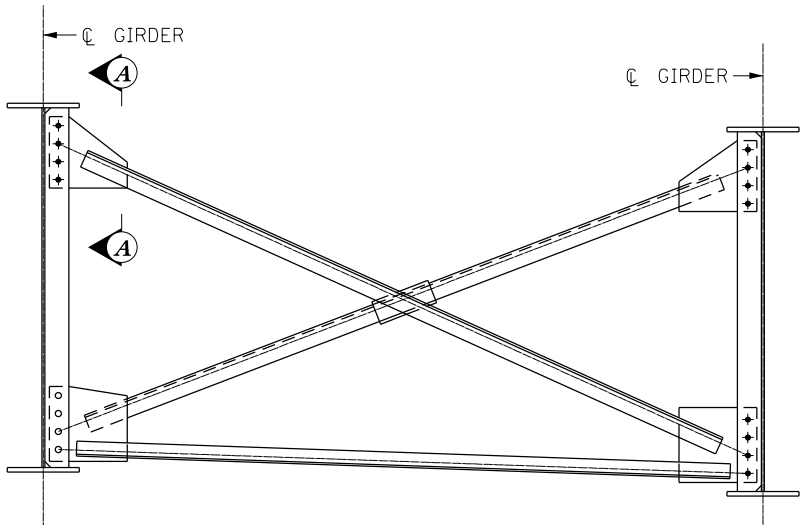
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USER: MaryJo.Dwyer

DATE PLOTTED: November 29, 2023

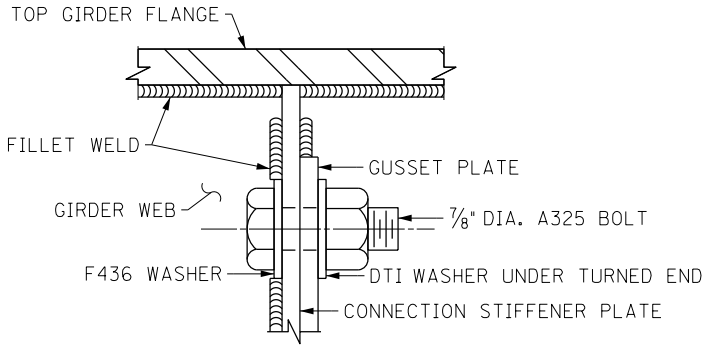
E-SHEET NAME: S23464 020

MicroStation v10.17.01.58



CROSSFRAME

TYPE MB1: REPLACE 4 TOP BOLTS AND 4 BOTTOM BOLTS AT THE CROSSFRAME CONNECTION TO THE GIRDER SPECIFIED (SEE NOTE 1)



SECTION A-A

REPLACE MISSING BOLTS AND/OR REMOVE/REPLACE LOOSE BOLTS



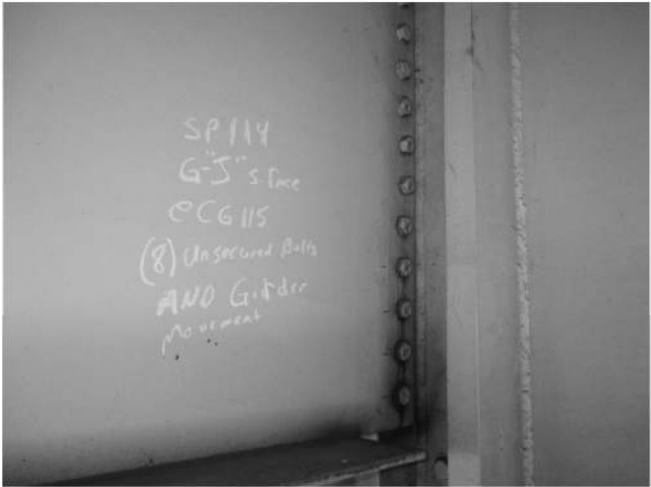
MISSING BOLTS (BOTTOM)  
LOOSE BOLTS (TOP)

EXAMPLE AT SPAN 110 GIRDER E



BROKEN AND LOOSE BOLTS (BOTTOM)  
LOOSE BOLTS (TOP)

EXAMPLE AT SPAN 123W GIRDER D



LOOSE BOLTS (MB2) IN GIRDER J TO PIER GIRDER 115 CONNECTION

TYPE MB2: REMOVE/REPLACE 8 LOOSE BOLTS AT BOTTOM OF THE GIRDER END CONNECTION TO THE PIER GIRDER

STEEL REPAIR – TYPE MB (INCLUDES TYPE MB1 AND MB2)

- TYPE MB1 WORK CONSISTS OF REMOVING/REPLACING BOLTS IN CROSSFRAME CONNECTIONS TO GIRDERS AS SPECIFIED IN THE PLANS. REPLACE BOLTS ONE BOLT AT A TIME. EACH MB1 LOCATION REPRESENTS THE REPLACEMENT OF ALL BOLTS (4 TOTAL IN THE BOTTOM CONNECTION GUSSET AND 4 TOTAL IN THE UPPER CONNECTION GUSSET) OF A CROSSFRAME. REPLACE ALL BOLTS AT THESE LOCATIONS EVEN IF THEY DO NOT APPEAR LOOSE.
- TYPE MB2 WORK CONSISTS OF REMOVING/REPLACING LOOSE BOLTS AT GIRDER J END CONNECTION TO PIER GIRDER 115. REMOVE/REPLACE THE LOOSE BOLTS ONE BOLT AT A TIME. 8 LOOSE BOLTS WERE NOTED IN THE 2019 INSPECTION.
- CLEAN AND DEGREASE TO RESTORE THE FRICTION SURFACE ON A 4 INCH DIAMETER MINIMUM AREA CONCENTRIC WITH HOLE AT REMOVED BOLT OR AT MISSING BOLT. ENSURE DIRT, CORROSION AND OTHER DEBRIS ARE REMOVED FROM THE AREA. PRIME THE BARE STEEL SURFACES OF THE CONTACT AREA.
- FURNISH AND INSTALL GALVANIZED 7/8 INCH DIAMETER F3125 GRADE A325 TYPE 1 HIGH STRENGTH BOLTS, F436 HARDENED WASHERS, AND ASTM A583 NUTS IN ACCORDANCE WITH 607.03.05 OF THE STANDARD SPECIFICATIONS.
- PAYMENT FOR THE COMPLETED AND ACCEPTED QUANTITY AT EACH LOCATION SPECIFIED WILL BE CONSIDERED AS FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, AND INCIDENTALS FOR ALL WORK REQUIRED, INCLUDING CLEANING AND SURFACE PREPARATION, UNDER THE BID ITEM "STEEL REPAIR - TYPE MB".

NOTES

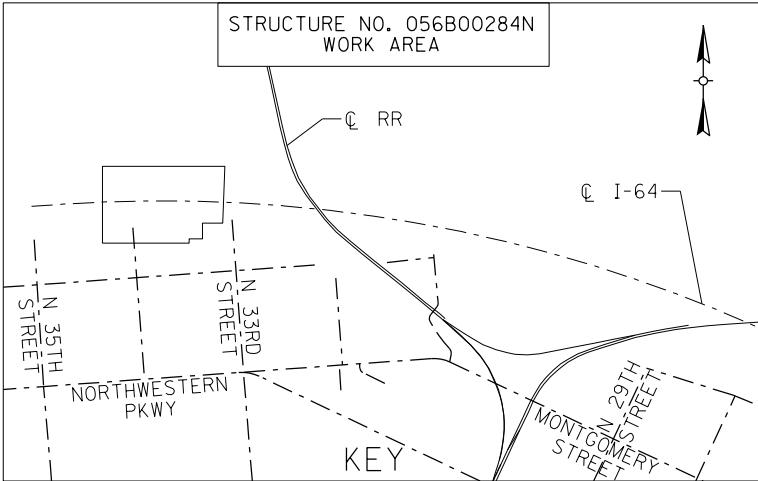
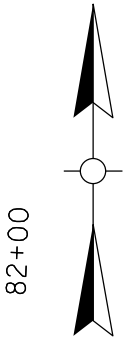
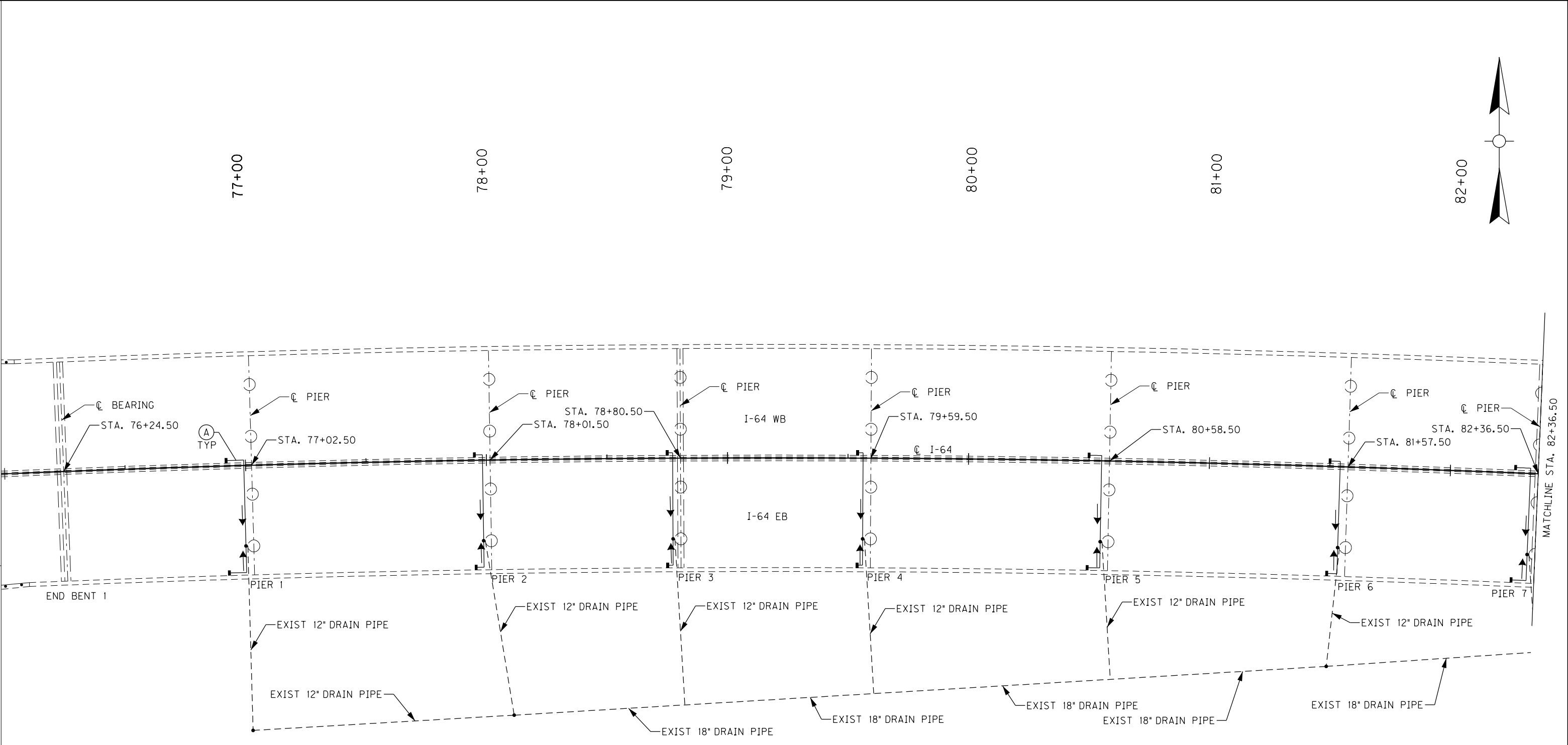
- FOR MISSING BOLT LOCATIONS, SEE FATIGUE LAYOUT SHEETS NOS. S70 - S78 & S81.

| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
|-------------|--|---|--|----------------------|--|
| 5-10016     |  | Michael Baker International   |  | S91                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |  |

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| REVISION   |   | DATE  |  |
| DATE: AUGUST 2025                                  |   | CHECKED BY  |  |
| DESIGNED BY: M BARON                               |   | D BARON   |  |
| DETAILED BY: MJ DWYER                              |   | D BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |   |   |  |
| COUNTY<br>JEFFERSON                                |   |   |  |
| ROUTE<br>I-64                                      | CROSSING<br>K & I TT RR TO PRESTON STREET |   |  |
| REPLACE BOLTS                                      |   |   |  |
| PREPARED BY  |   | SHEET NO.   |  |
| <div>Michael Baker<br/>INTERNATIONAL</div>         |   | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |   | DRAWING NO.<br>28870  |  |

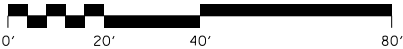


FILE NAME: SHT\_284\_Layout1.dgn  
USER: Nicholas.Allen  
DATE PLOTTED:  
v10.13.2.2 E-SHEET NAME: S23464 020  
OpenRoads Designer



| LABEL | DIAMETER | MIN. SLOPE | LABEL | DIAMETER | MIN. SLOPE |
|-------|----------|------------|-------|----------|------------|
| A     | 8"       | 0.60%      | P     | 10"      | 0.40%      |
| B     | 8"       | 0.80%      | Q     | 10"      | 0.60%      |
| C     | 8"       | 1.00%      | R     | 10"      | 0.80%      |
| D     | 8"       | 1.20%      | S     | 10"      | 1.00%      |
| E     | 8"       | 1.40%      | T     | 10"      | 1.20%      |
| F     | 8"       | 1.60%      | U     | 10"      | 1.40%      |
| H     | 8"       | 1.80%      | V     | 10"      | 1.60%      |
| I     | 8"       | 2.00%      | W     | 10"      | 1.80%      |
|       |          |            |       |          |            |

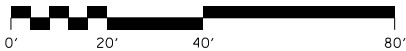
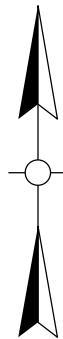
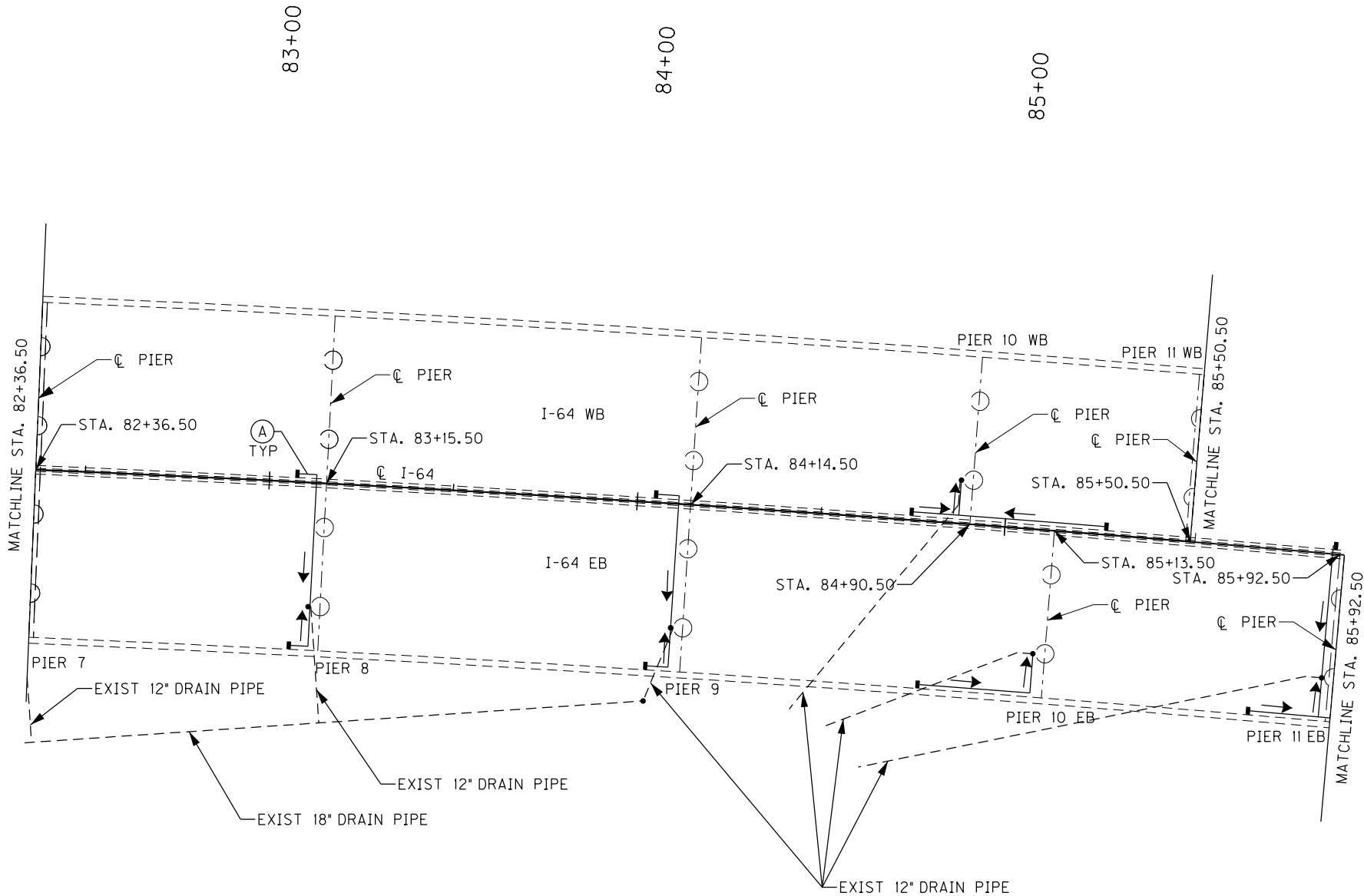
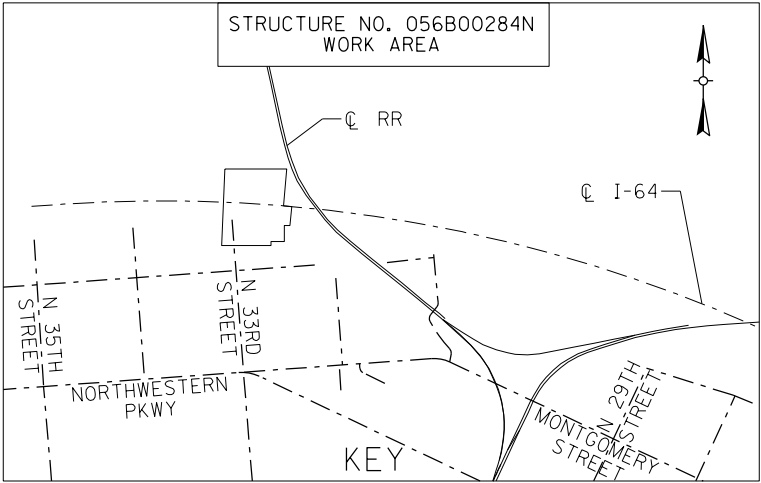
NOTE:  
FOR CONNECTION OF BRIDGE DECK DRAINAGE SYSTEM TO EXISTING 12" DRAIN PIPE FOR PIERS 1 TO 9, 10WB, 10EB, AND 11EB SEE DRAINAGE DETAIL SHEETS



| ITEM NUMBER |
|-------------|
| 5-10016     |

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|---|---------------------------------|------|--|
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| REVISION  |                                 | DATE |  |
| DATE:   | CHECKED BY                      |      |  |
| DESIGNED BY: NGA  | PDO                             |      |  |
| DETAILED BY: NGA  | PDO                             |      |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |      |  |
| COUNTY<br>JEFFERSON   |                                 |      |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00284N |      |  |
| 284 DRAINAGE LAYOUT – 1   |                                 |      |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL                                     |                                 |      | SHEET NO.<br>D01<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |      |  |





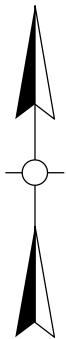
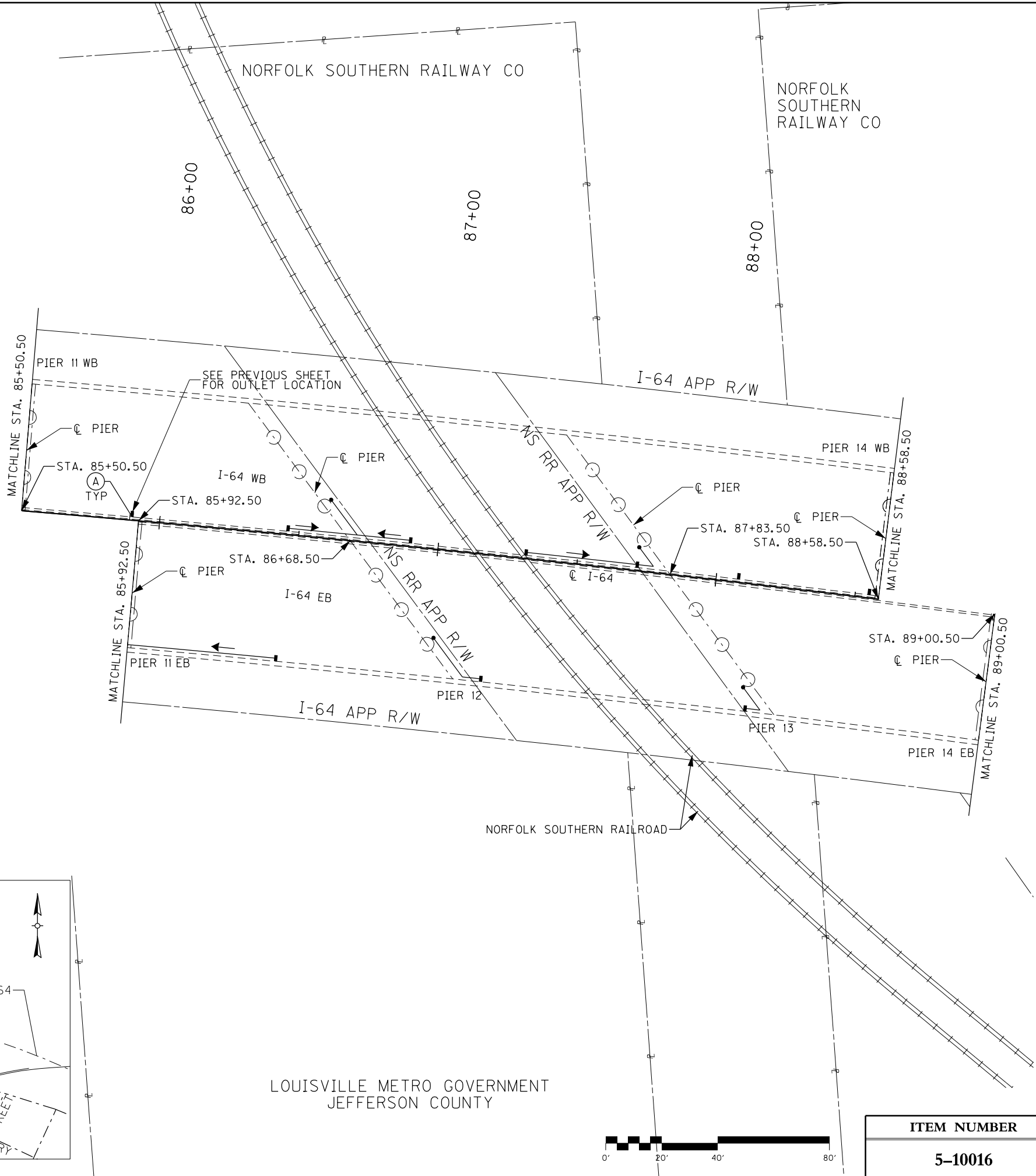
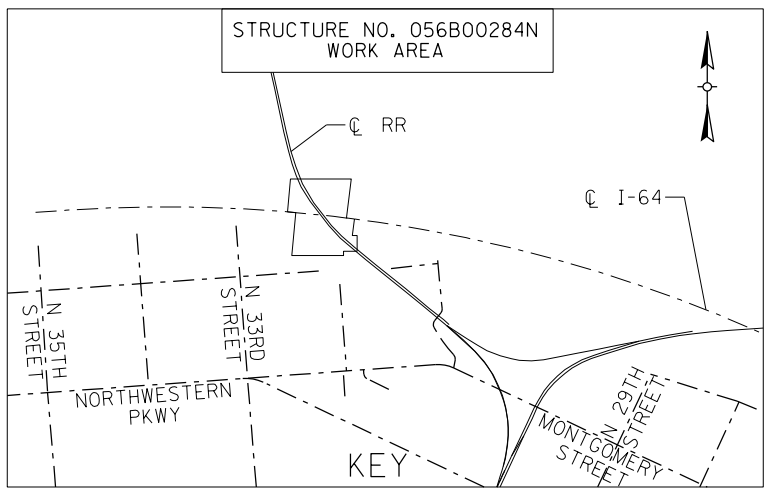
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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE LAYOUT – 2   |                                 |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |                                 | SHEET NO.<br>D02<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

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SHT\_284\_Layout3.dgn

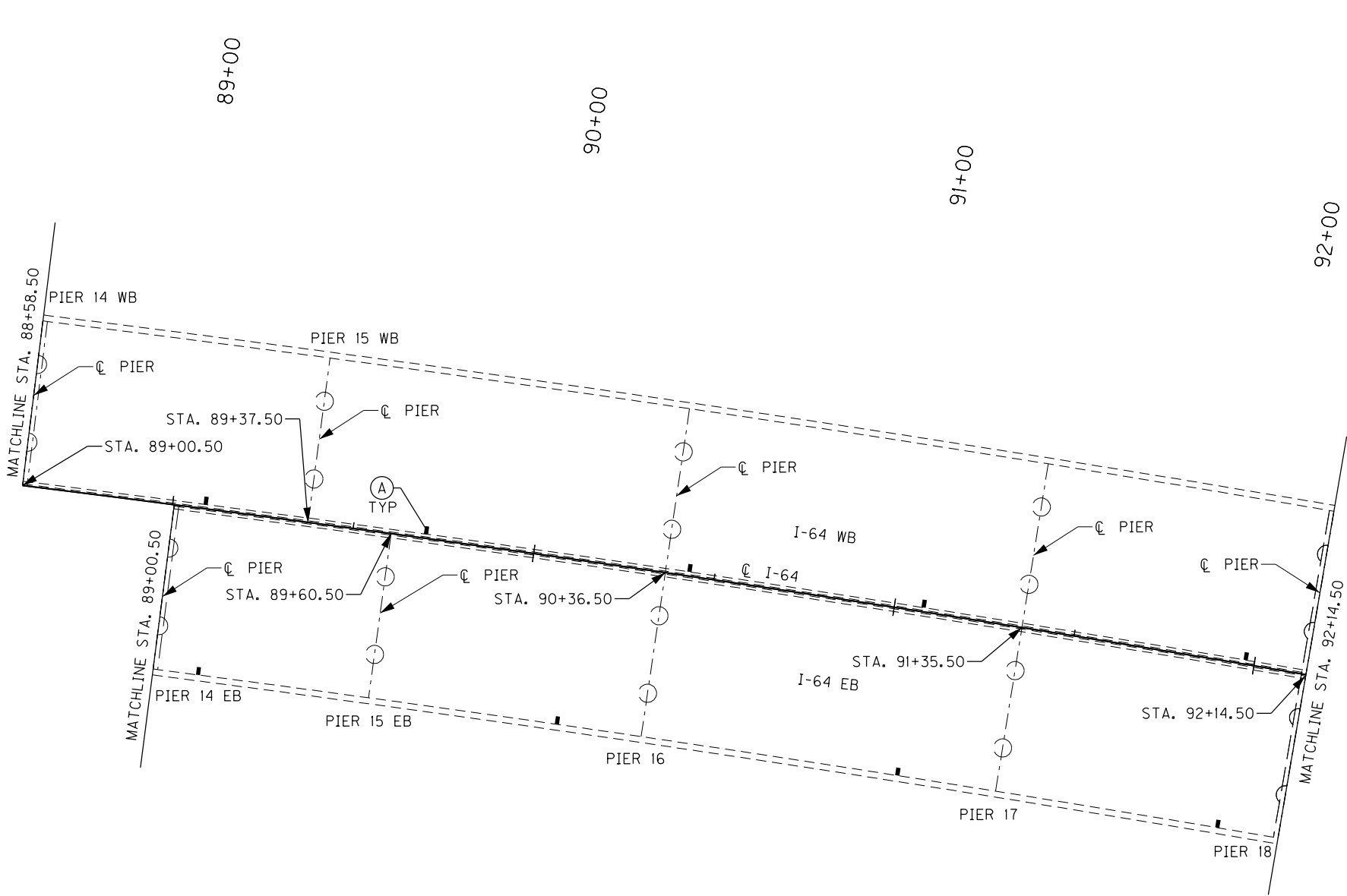
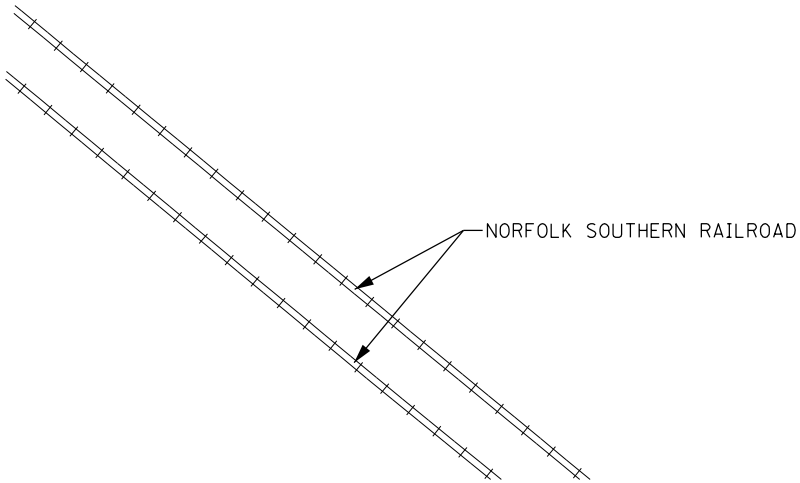
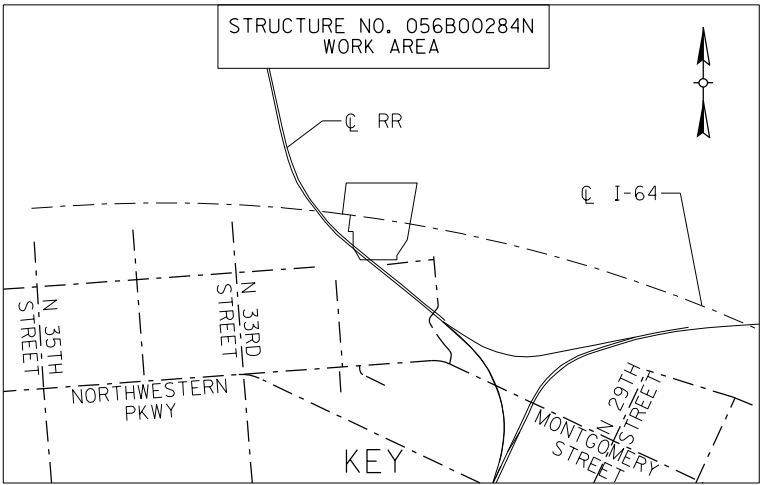
USER: Nicholas.Allen  
DATE PLOTTED: September 7, 2005

OpenRoads Designer v10.16.2.26E-SHEET NAME: S23464 020



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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE LAYOUT – 3   |                                 |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL                                     |                                 | SHEET NO.<br>D03<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

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| ITEM NUMBER |
| 5-10016     |



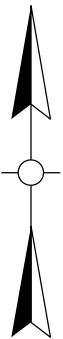
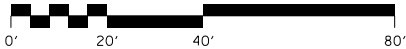
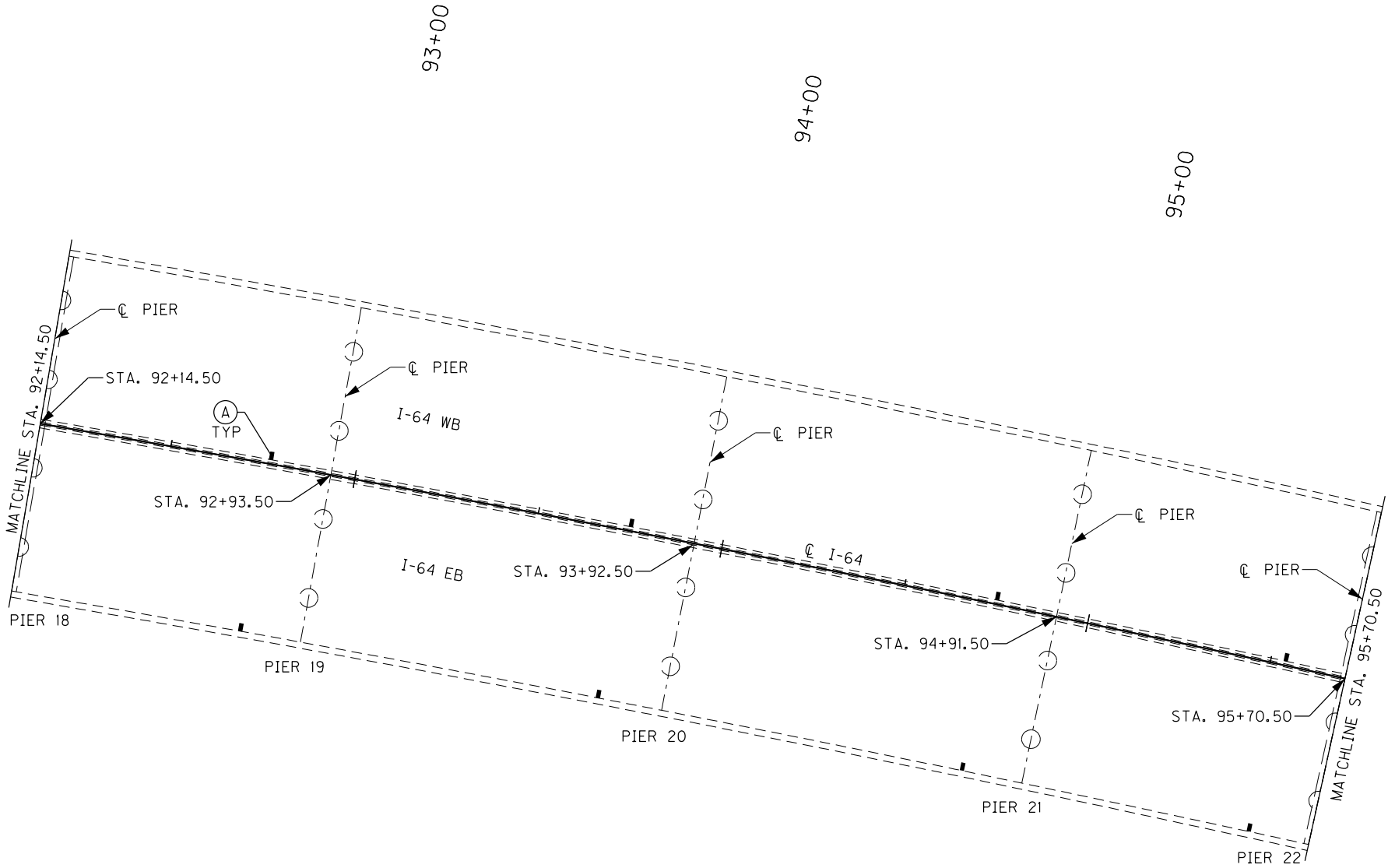
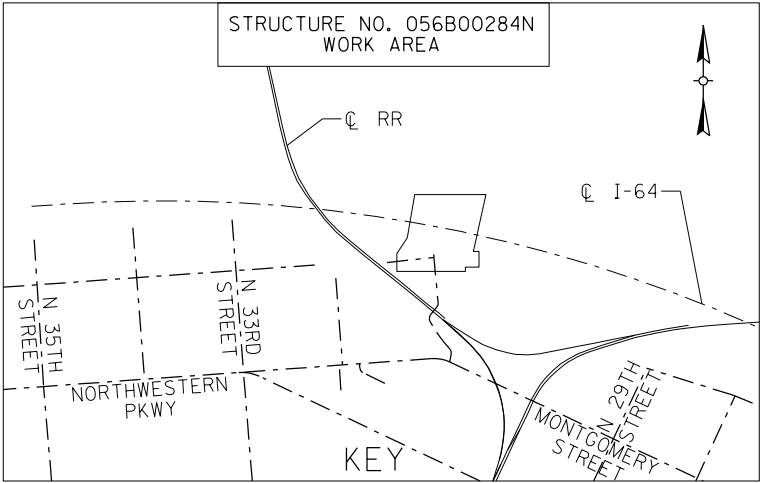
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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE LAYOUT - 4   |                                 |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL                                     |                                 | SHEET NO.<br>D04<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

FILE NAME:  
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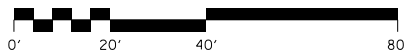
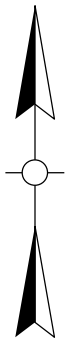
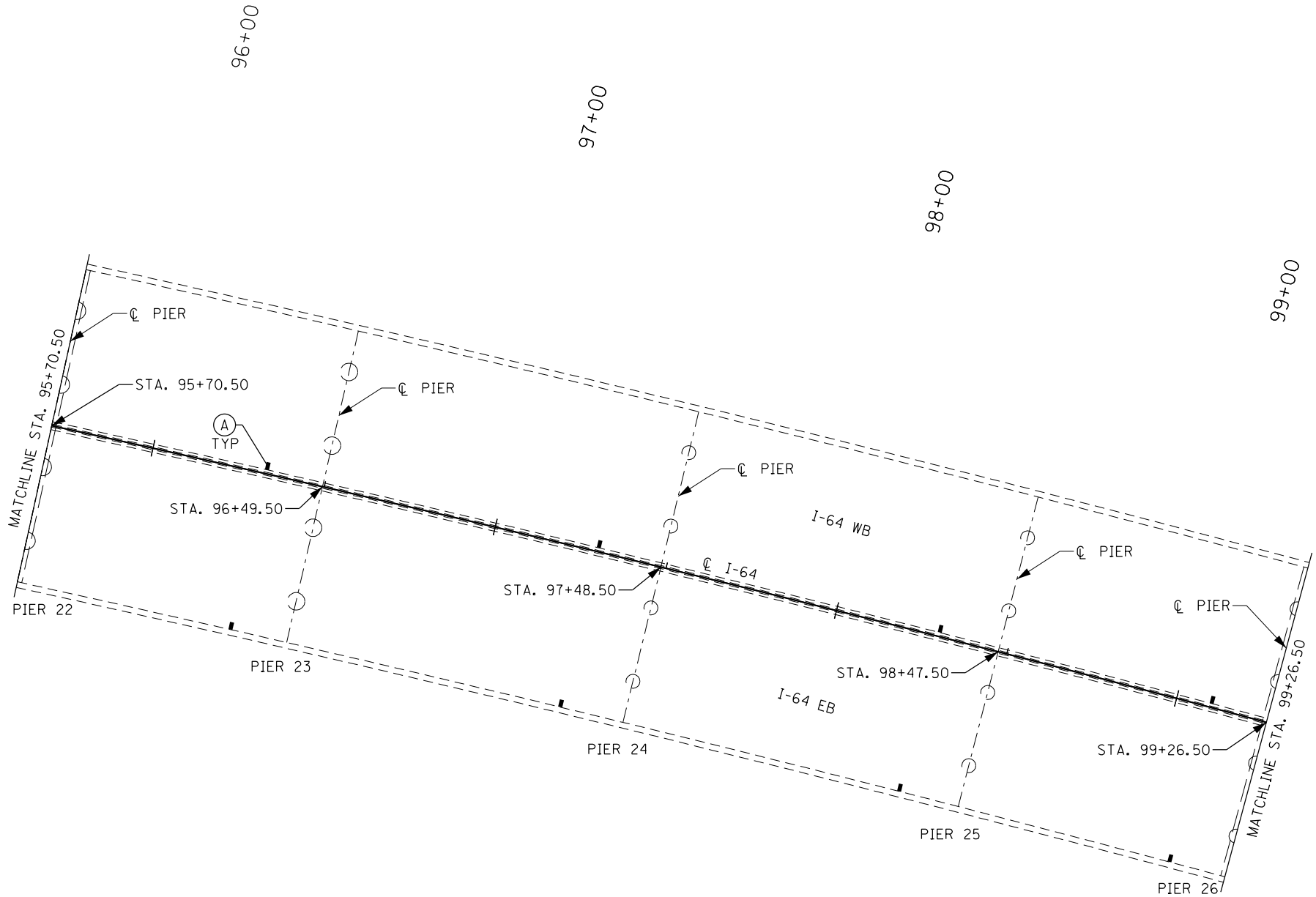
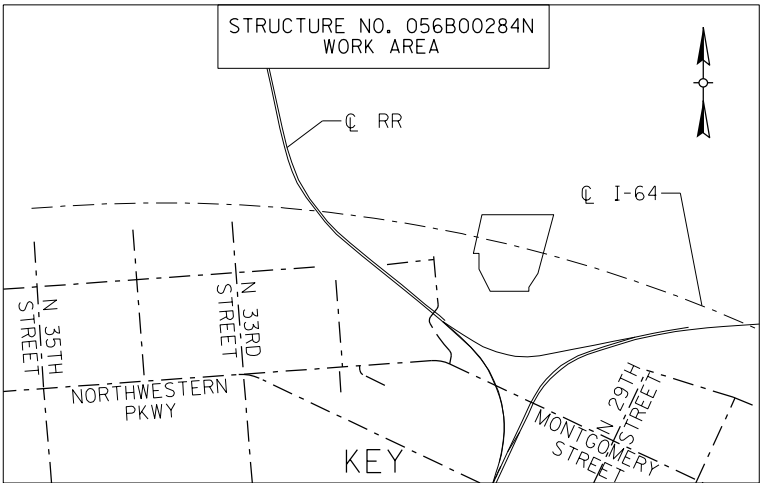
USER: Nicholas.Allen  
DATE PLOTTED:

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



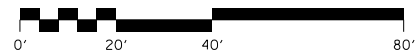
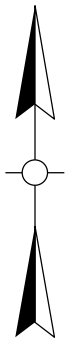
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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA                                      | PDO                             |  |
| DETAILED BY: NGA                                      | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS    |                                 |  |
| COUNTY<br>JEFFERSON                                   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE LAYOUT – 5                               |                                 |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL |                                 | SHEET NO.<br>D05<br>DRAWING NO.<br>28870 |

| ITEM NUMBER |
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| 5-10016     |



| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA                                      | PDO                             |  |
| DETAILED BY: NGA                                      | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS    |                                 |  |
| COUNTY<br>JEFFERSON                                   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE LAYOUT – 6                               |                                 |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL |                                 | SHEET NO.<br>D06<br>DRAWING NO.<br>28870 |

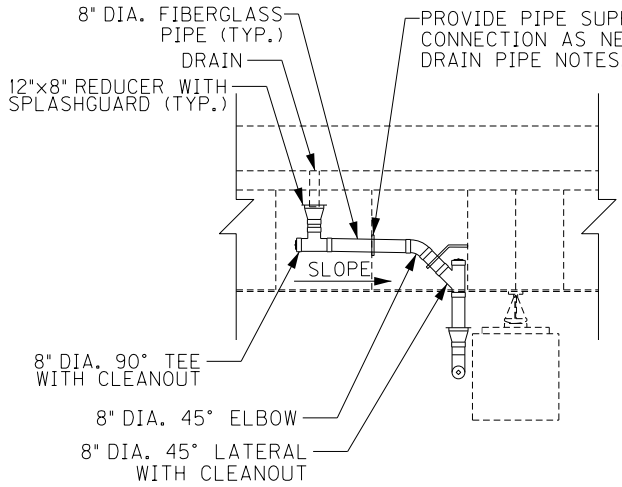


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| DATE:   | CHECKED BY                             |
| DESIGNED BY: NGA  | PDO                                    |
| DETAILED BY: NGA  | PDO                                    |
| <b>Commonwealth of Kentucky</b><br><b>DEPARTMENT OF HIGHWAYS</b>  |  |
| COUNTY<br><b>JEFFERSON</b>  |  |
| ROUTE<br><b>I-64</b>  | CROSSING<br><b>STR. NO. 056B00284N</b> |
| <b>284 DRAINAGE LAYOUT - 7</b>  |  |
| PREPARED BY   |  |
| <div style="border: 2px solid black; padding: 5px; display: inline-block;"> <b>Michael Baker</b> </div> 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
| SHEET NO.   |  |
| <div style="border: 2px solid black; padding: 5px; display: inline-block;"> <b>D07</b> </div>   |  |
| DRAWING NO.   |  |
| <b>28870</b>  |  |

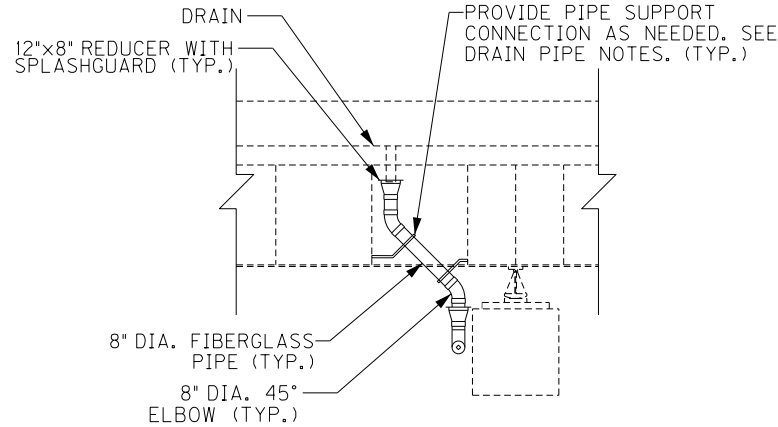
FILE NAME:  
DETAILS.284.DGN

USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

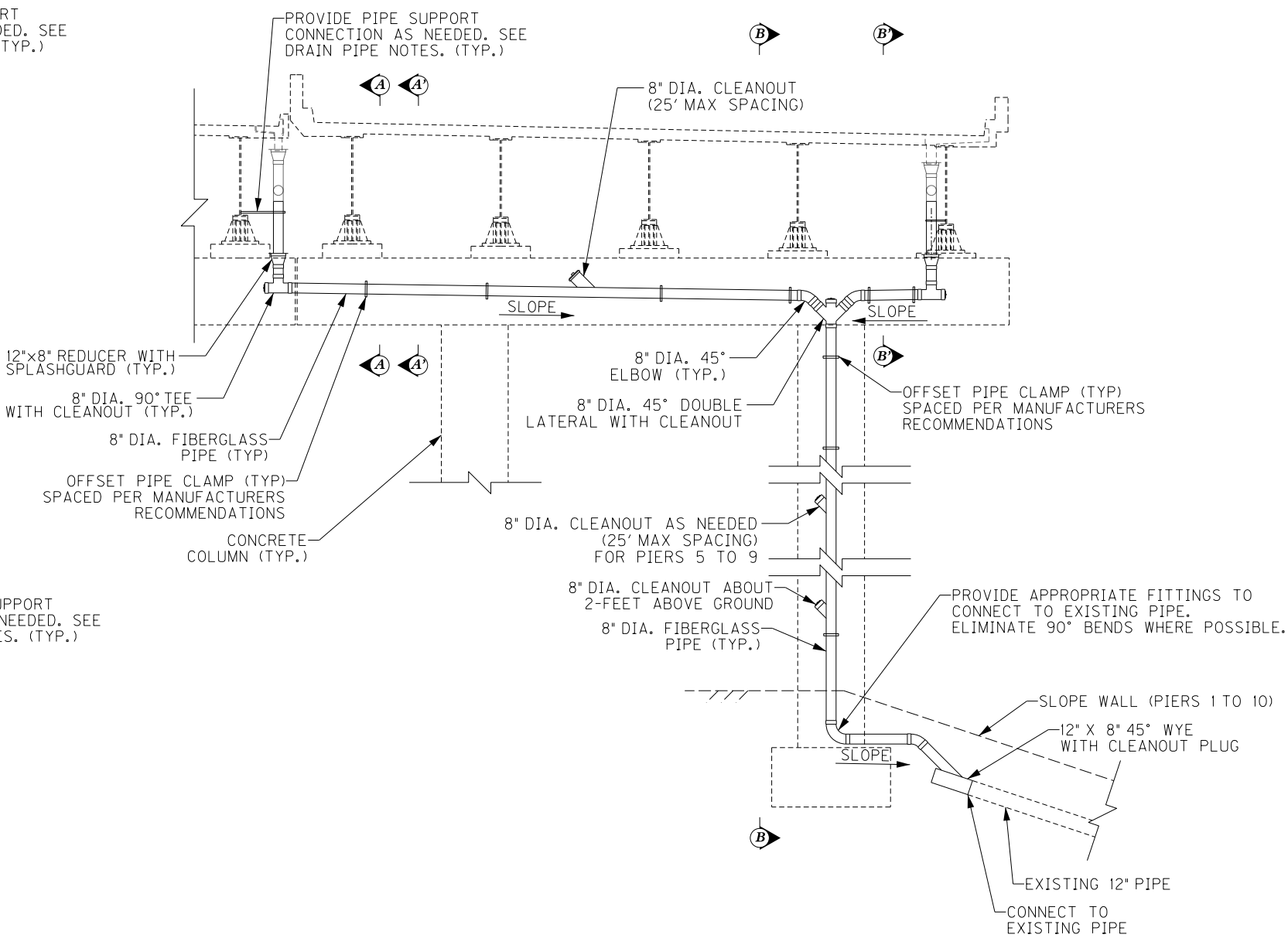
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



**SECTION A-A**  
LONGITUDINAL SECTION  
PIER 1 W.B. SHOWN  
(LOOKING NORTH)  
PIERS 5 TO 9 SIMILAR



**SECTION A'-A'**  
LONGITUDINAL SECTION  
PIER 2 W.B. SHOWN  
(LOOKING NORTH)  
PIERS 3 AND 4 SIMILAR



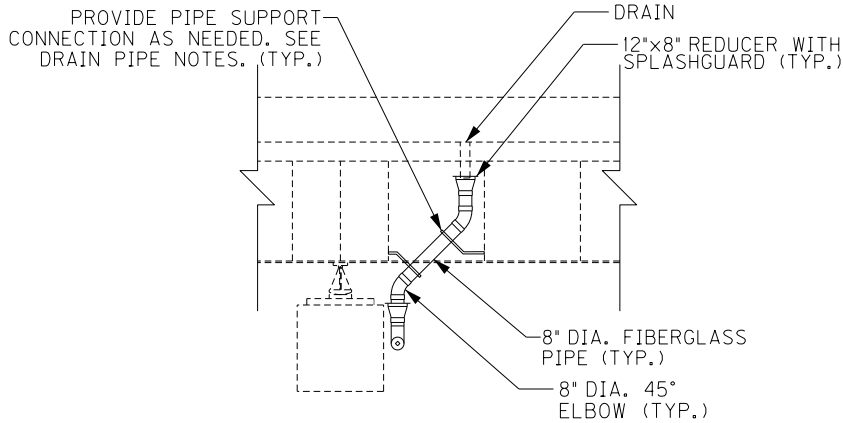
**DRAINAGE DETAIL - ELEVATION**  
TRANSVERSE SECTION  
PIER 1 SHOWN  
(LOOKING EAST)  
PIERS 2 TO 9 SIMILAR

NOTE:

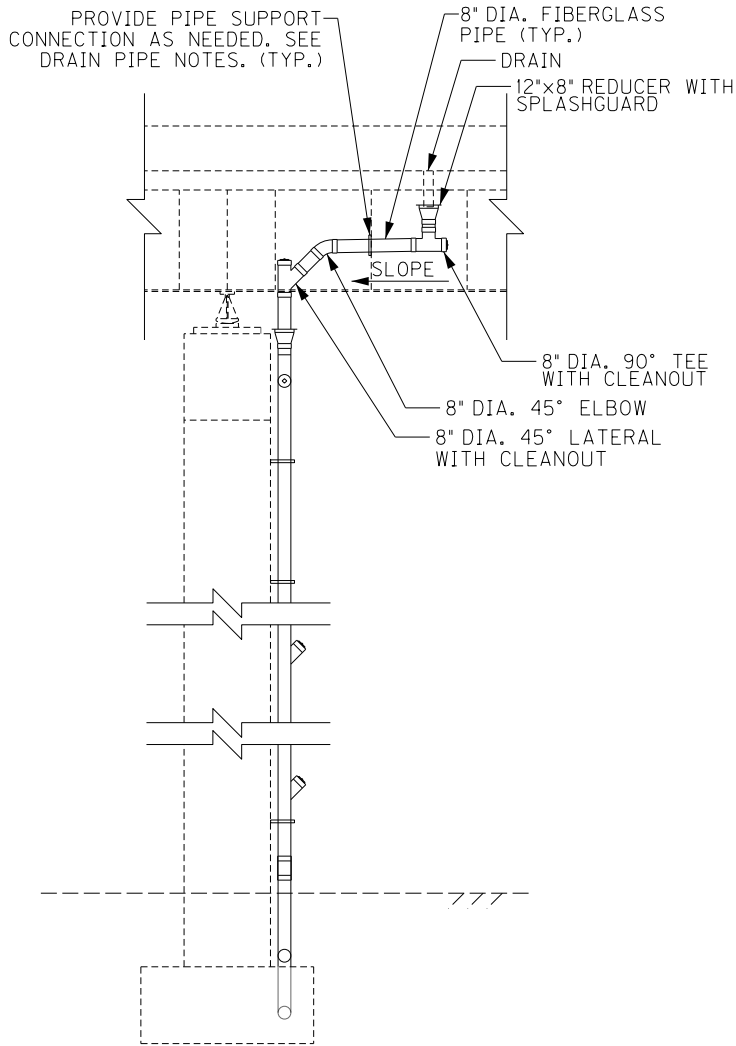
FOR CONNECTION TO EXISTING 12" PIPE, SAWCUT EXISTING CONCRETE SLOPE WALL AND REPLACE. MATCH EXISTING SLOPES. TYPICAL FOR PIERS 1 TO 10.

AT PIER 11 E.B. AND FOR CONNECTION TO THE EXISTING PIPE, SAWCUT EXISTING PAVEMENT AND REPLACE IN LIKE KIND. THE COST IS CONSIDERED INCIDENTAL.

SEE STANDARD DRAWING RDI-025-06 FOR FIBERGLASS PIPE INSTALLATION FROM PIER COLUMN TO EXISTING 12" PIPE. PIPE SHALL BE INSTALLED PER KYTC STANDARD SPECIFICATION SECTION 701 SIMILAR TO THERMOPLASTIC PIPE. COST FOR REMOVING UNDERGROUND PIPING IS CONSIDERED INCIDENTAL.



**SECTION B'-B'**  
LONGITUDINAL SECTION  
PIER 2 E.B. SHOWN  
(LOOKING SOUTH)  
PIERS 3 AND 4 SIMILAR




**SECTION B-B**  
LONGITUDINAL SECTION  
PIER 1 E.B. SHOWN  
(LOOKING SOUTH)  
PIERS 5 TO 9 SIMILAR

| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
|-------------|--|---|--|----------------------|--|
| 5-10016     |  | Michael Baker International   |  | D08                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com |  | DRAWING NO.<br>28870 |  |

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| REVISION   |  | DATE                            |  |
| DATE: FEB 2021                                     |  | CHECKED BY                      |  |
| DESIGNED BY: PDO                                   |  | DMB                             |  |
| DETAILED BY: MLO                                   |  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |                                 |  |
| COUNTY<br>JEFFERSON                                |  |                                 |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE DETAILS - 1                           |  |                                 |  |



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| REVISION  |  | DATE  |  |
| DATE: FEB 2021  |  | CHECKED BY  |  |
| DESIGNED BY: PDO  |  | DMB   |  |
| DETAILED BY: MLO  |  | PDO   |  |
| <p align="center"><b>Commonwealth of Kentucky</b><br/> <b>DEPARTMENT OF HIGHWAYS</b></p>  |  |   |  |
| <p align="center">COUNTY<br/> <b>JEFFERSON</b></p>  |  |   |  |
| ROUTE<br><b>I-64</b>  |  | CROSSING<br><b>STR. NO. 056B00284N</b>  |  |
| <b>284 DRAINAGE DETAILS – 2</b>   |  |   |  |
| <p align="center">PREPARED BY</p> <div align="center">  </div> |  | <p align="center">1650 Lyndon Farm Court<br/> Louisville, KY 40223<br/> Phone: (502) 339-3557<br/> MBAKERINTL.COM</p> |  |
|   |  | <p align="center">SHEET NO.<br/> <b>D09</b><br/> DRAWING NO.<br/> <b>28870</b></p>                                    |  |

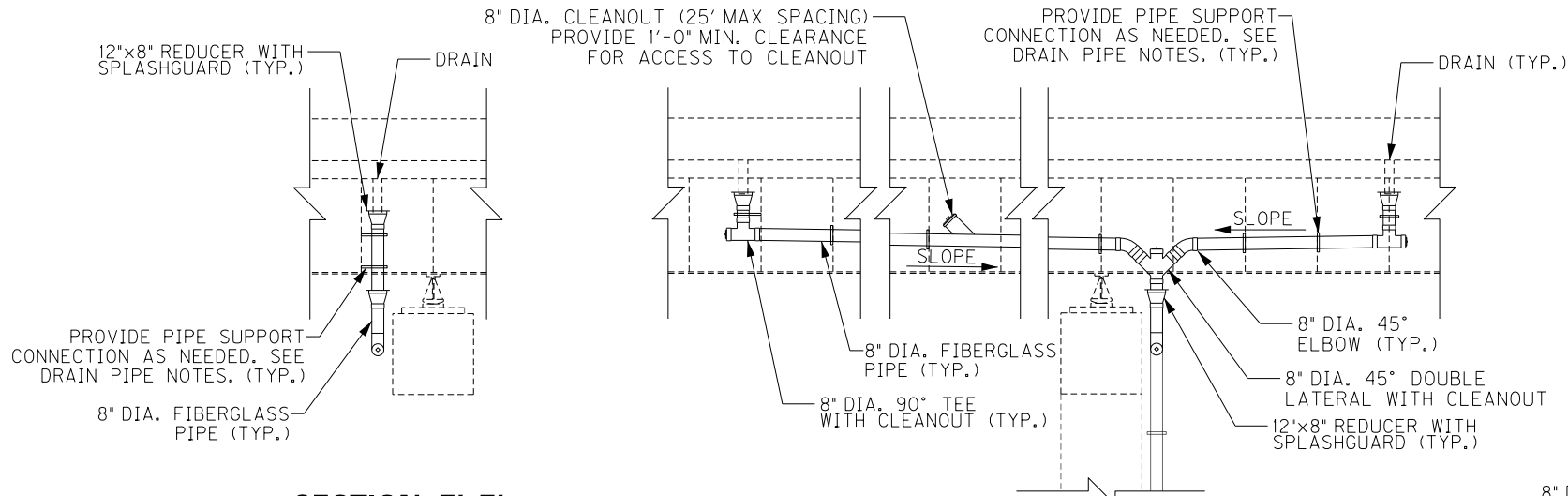
| ITEM NUMBER |
|-------------|
| 5-10016     |



FILE NAME:  
DETAILS.284.DGN

USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020

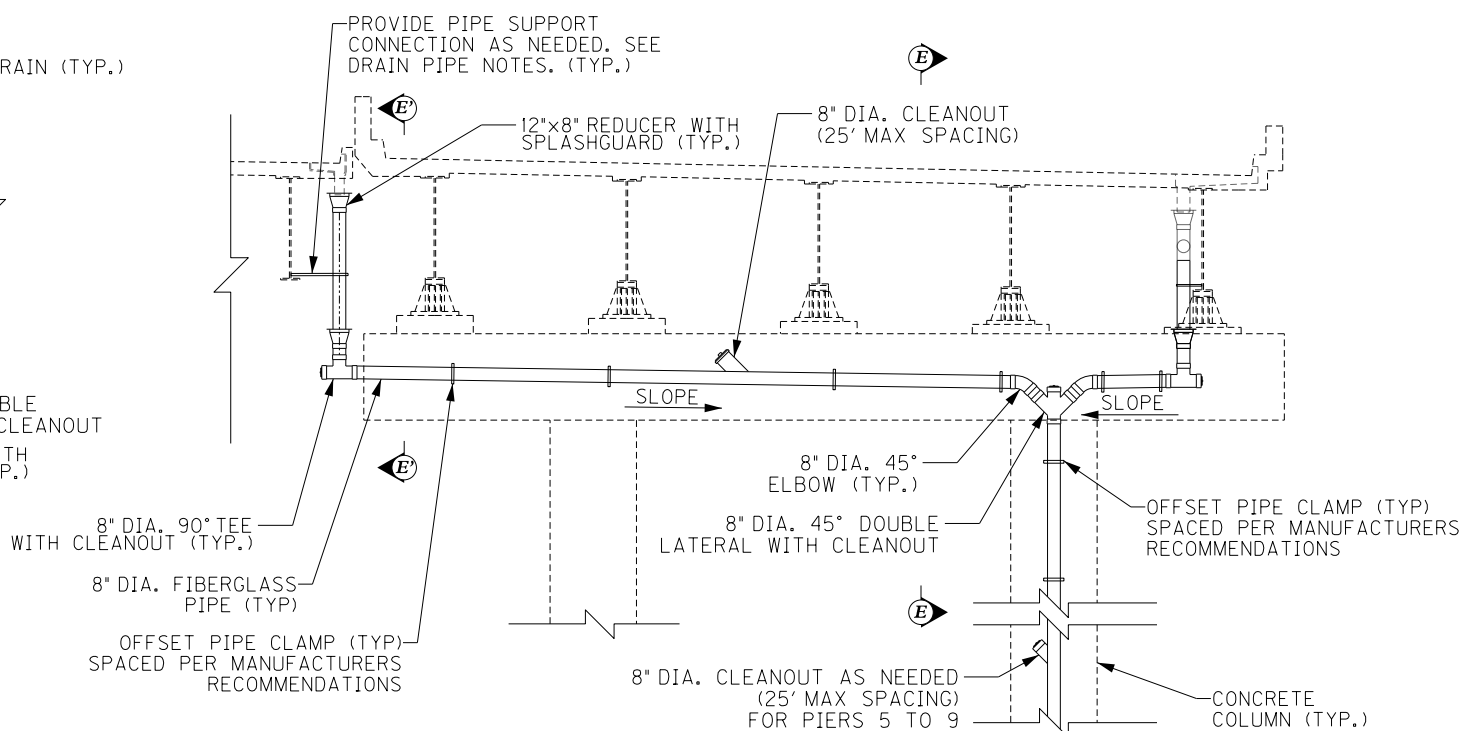


### SECTION E'-E'

LONGITUDINAL SECTION  
PIER 11 E.B. SHOWN  
(LOOKING NORTH)

### SECTION E-E

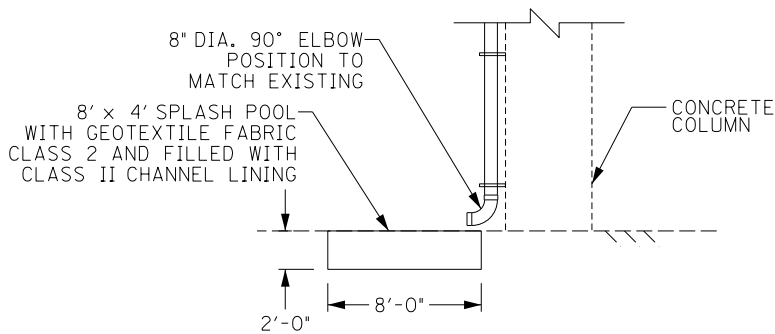
LONGITUDINAL SECTION  
PIER 11 E.B. SHOWN  
(LOOKING SOUTH)



SEE PIER 1 DRAINAGE  
DETAIL FOR CONNECTION  
TO EXISTING PIPE

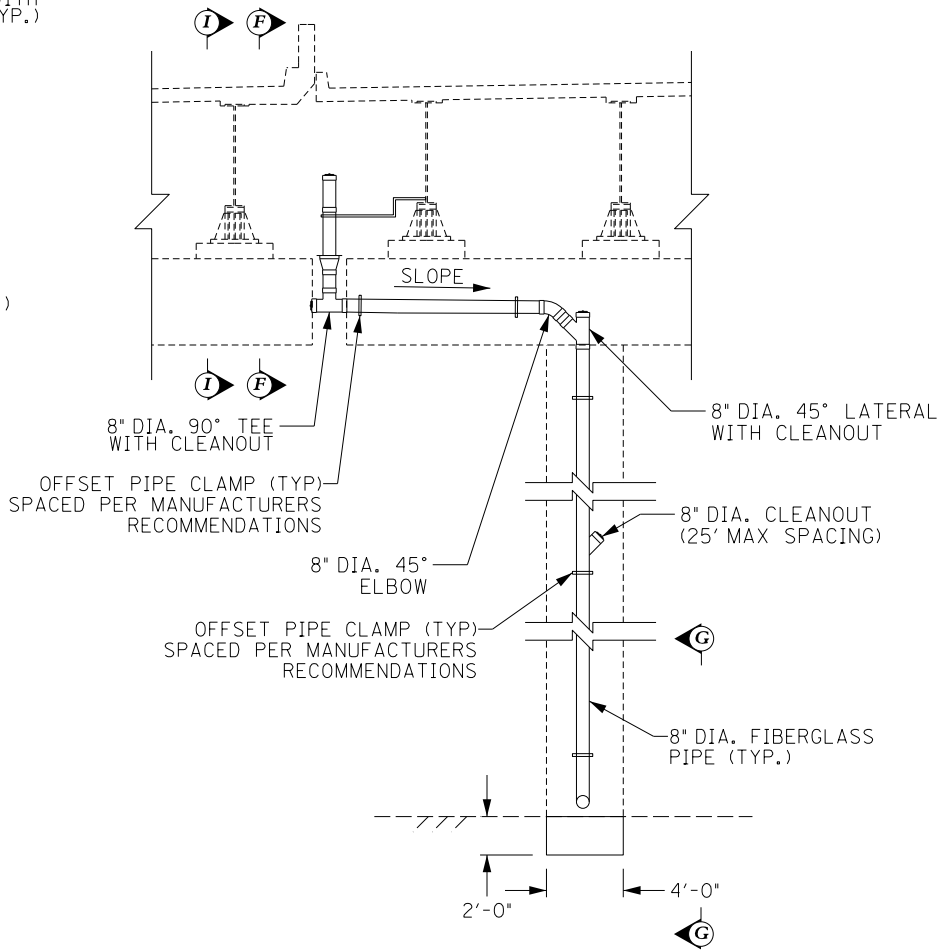
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 11 E.B. SHOWN  
(LOOKING EAST)



### SECTION G-G

LONGITUDINAL SECTION  
PIER 12 W.B. SHOWN  
(LOOKING SOUTH)  
PIER 13 W.B. SIMILAR



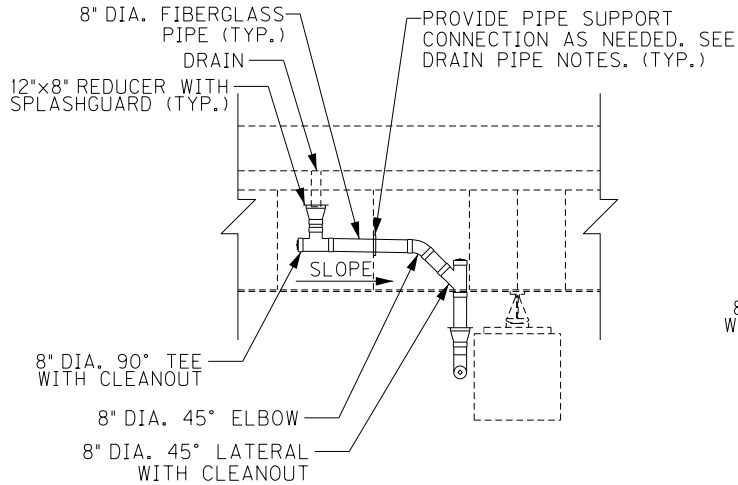
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 12 W.B. SHOWN  
(LOOKING WEST)  
PIER 13 W.B. SIMILAR EXCEPT MIRRORED

| ITEM NUMBER |  | SHEET NO.         |  |
|-------------|--|-------------------|--|
| 5-10016     |  | D10               |  |
|             |  | DRAWING NO. 28870 |  |

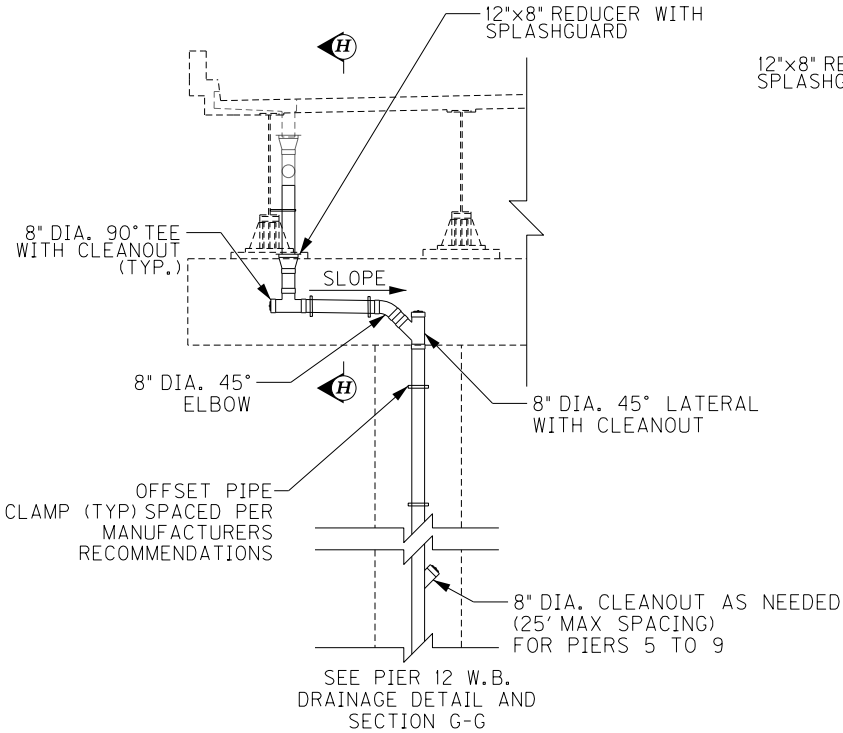
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| REVISION  |  | DATE                            |  |
| DATE: FEB 2021  |  | CHECKED BY                      |  |
| DESIGNED BY: PDO  |  | DMB                             |  |
| DETAILED BY: MLO  |  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |  |
| COUNTY<br>JEFFERSON   |  |                                 |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00284N |  |
| 284 DRAINAGE DETAILS – 3  |  |                                 |  |
| PREPARED BY   |  | SHEET NO.                       |  |
| Michael Baker<br>INTERNATIONAL  |  | D10<br>DRAWING NO.<br>28870     |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |                                 |  |

FILE NAME: DETAILS.284.DGN  
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020  
openRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



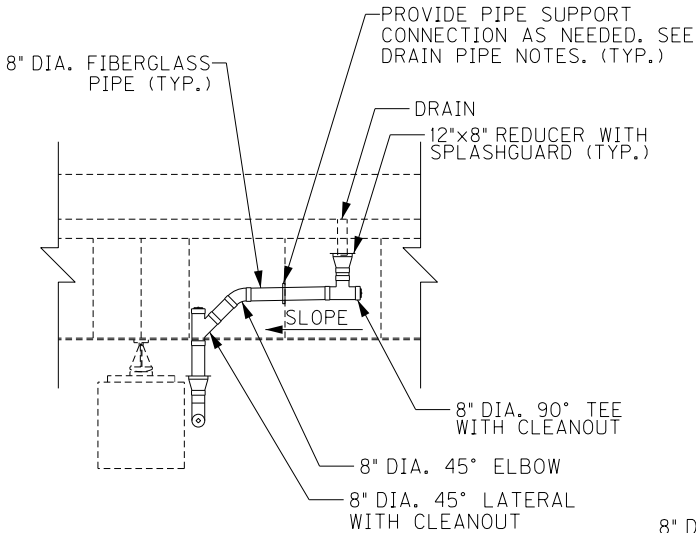
**SECTION H-H**

LONGITUDINAL SECTION  
PIER 12 E.B. SHOWN  
(LOOKING SOUTH)



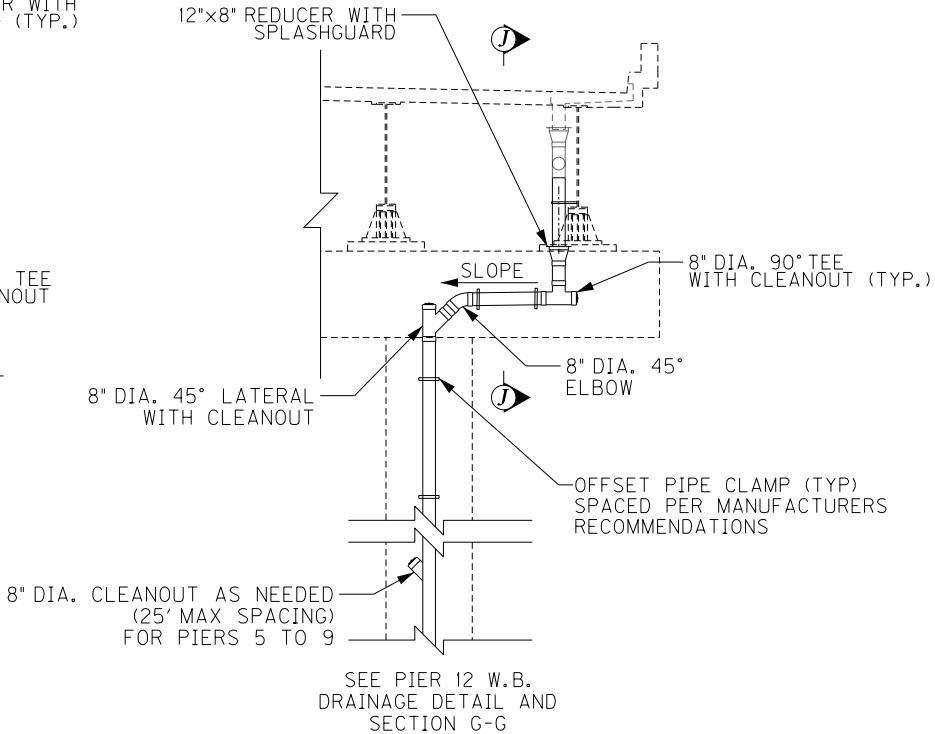
**DRAINAGE DETAIL – ELEVATION**

TRANSVERSE SECTION  
PIER 12 E.B. SHOWN  
(LOOKING WEST)



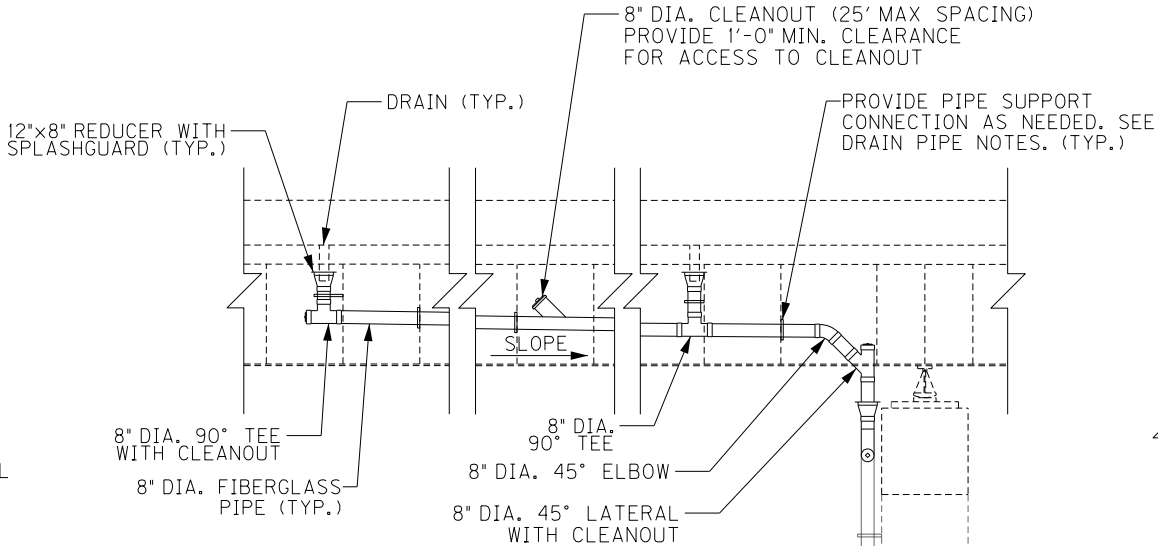
**SECTION J-J**

LONGITUDINAL SECTION  
PIER 13 E.B. SHOWN  
(LOOKING SOUTH)



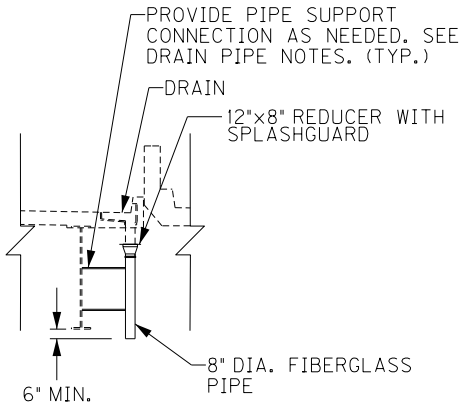
**DRAINAGE DETAIL – ELEVATION**

TRANSVERSE SECTION  
PIER 13 E.B. SHOWN  
(LOOKING EAST)



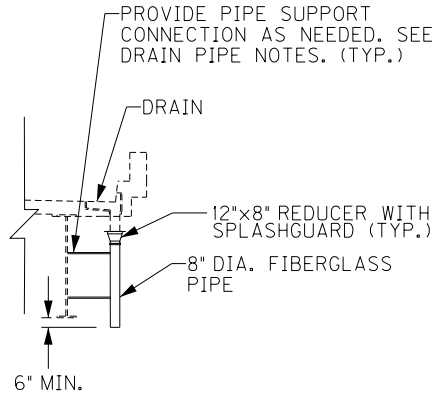
**SECTION I-I**

LONGITUDINAL SECTION  
PIER 13 W.B. SHOWN  
(LOOKING NORTH)



**DOWNSPOUT DETAIL – MEDIAN**

TRANSVERSE SECTION  
(21 LOCATIONS)

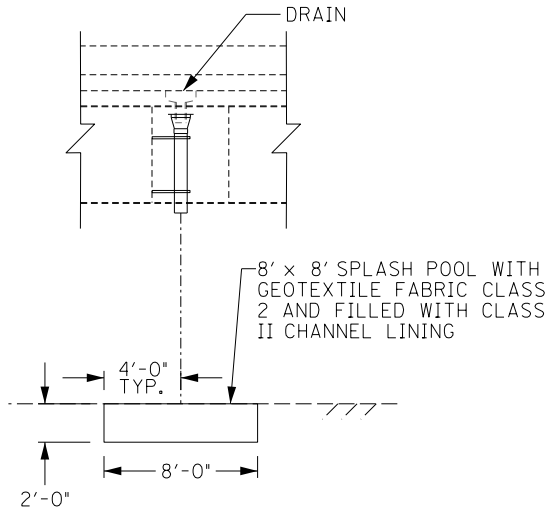


**DOWNSPOUT DETAIL – FASCIA**

TRANSVERSE SECTION  
(18 LOCATIONS)

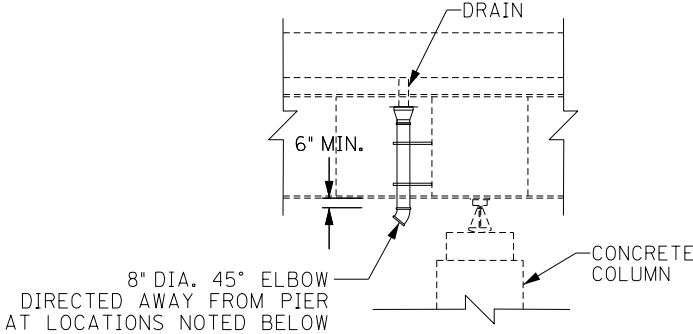
NOTE:

SIMILAR TO THE DETAIL BELOW,  
AT STATION 102+00, PROVIDE 8' WIDE  
X 20' LONG SPLASH POOL FOR W.B  
AND E.B (2 LOCATIONS)



**DOWNSPOUT DETAIL – SPLASH POOL**

LONGITUDINAL SECTION  
INLET STATIONS 99+83, 100+83 AND 101+34 (W.B AND E.B)  
6 LOCATIONS TOTAL



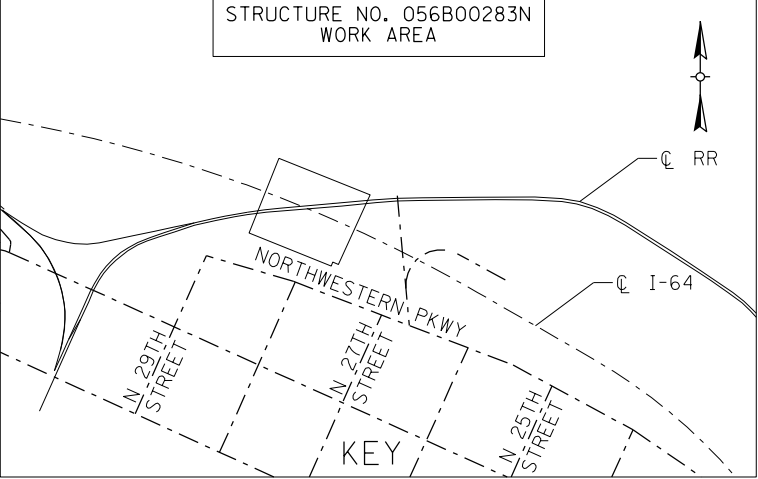
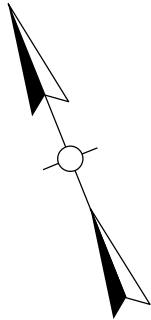
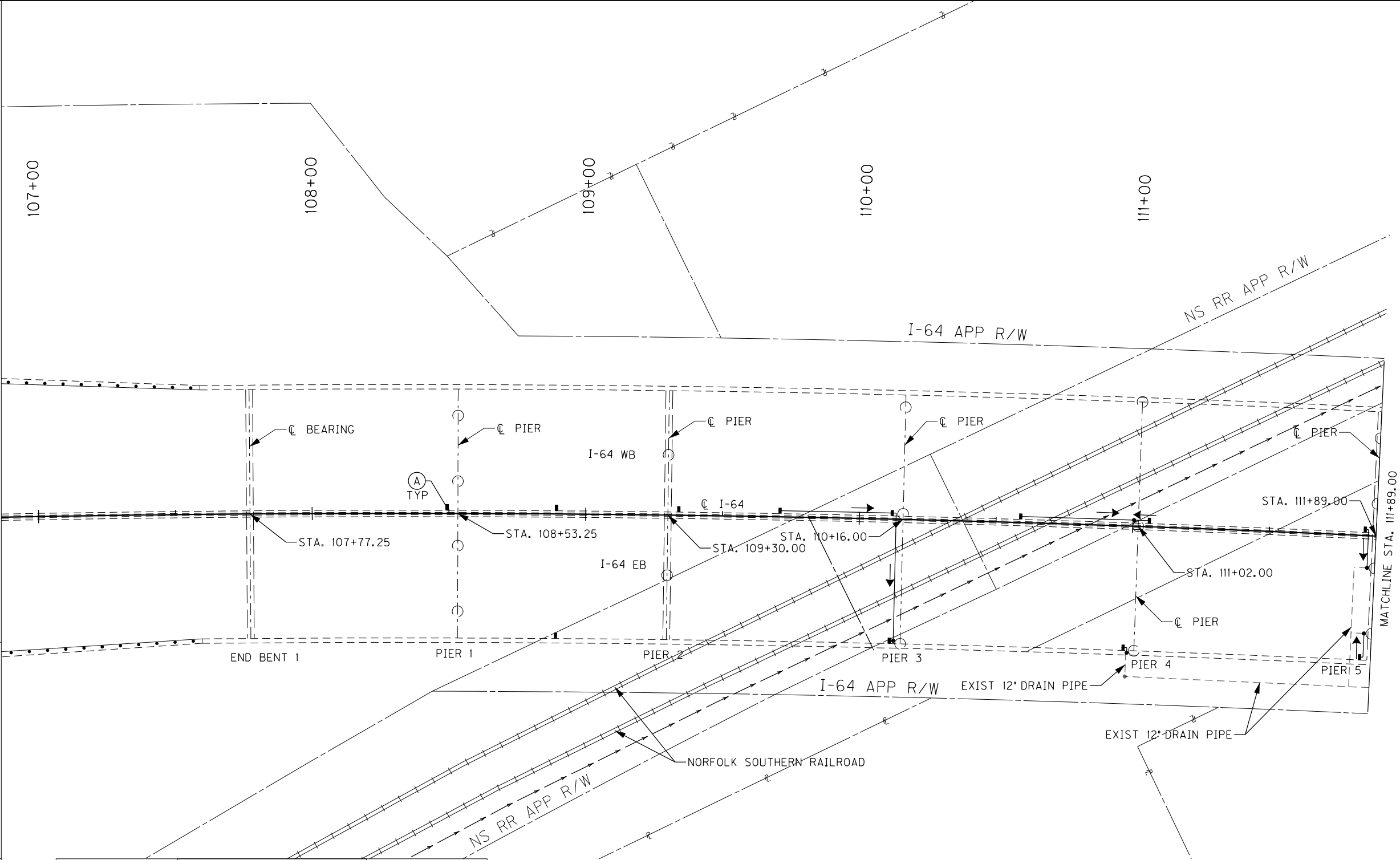
**DOWNSPOUT DETAIL – COLUMN**

LONGITUDINAL SECTION  
PIERS 14, 16 AND 29 W.B. (TWO INLETS AT 29 W.B.)  
PIER 29 E.B. (TWO INLETS AT 29 E.B.)

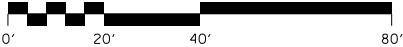
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| REVISION   |  | DATE  |  |
| DATE: FEB 2021                                     |  | CHECKED BY  |  |
| DESIGNED BY: PDO                                   |  | DMB   |  |
| DETAILED BY: MLO                                   |  | PDO   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>STR. NO. 056B00284N   |  |
| 284 DRAINAGE DETAILS – 4                           |  |   |  |
|  |  | PREPARED BY   |  |
|  |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | SHEET NO.<br>D11<br>DRAWING NO.<br>28870  |  |

|             |
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| ITEM NUMBER |
| 5-10016     |

FILE NAME: SHT\_283\_Layout1.dgn  
USER: Nicholas.Allen  
DATE PLOTTED: September 7, 2005  
OpenRoads Designer v10.16.2.24E-SHEET NAME: S23464 020



| LABEL | DIAMETER | MIN. SLOPE | LABEL | DIAMETER | MIN. SLOPE |
|-------|----------|------------|-------|----------|------------|
| A     | 8"       | 0.60%      | P     | 10"      | 0.40%      |
| B     | 8"       | 0.80%      | Q     | 10"      | 0.60%      |
| C     | 8"       | 1.00%      | R     | 10"      | 0.80%      |
| D     | 8"       | 1.20%      | S     | 10"      | 1.00%      |
| E     | 8"       | 1.40%      | T     | 10"      | 1.20%      |
| F     | 8"       | 1.60%      | U     | 10"      | 1.40%      |
| H     | 8"       | 1.80%      | V     | 10"      | 1.60%      |
| I     | 8"       | 2.00%      | W     | 10"      | 1.80%      |
|       |          |            |       |          |            |

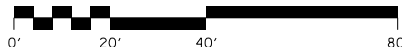
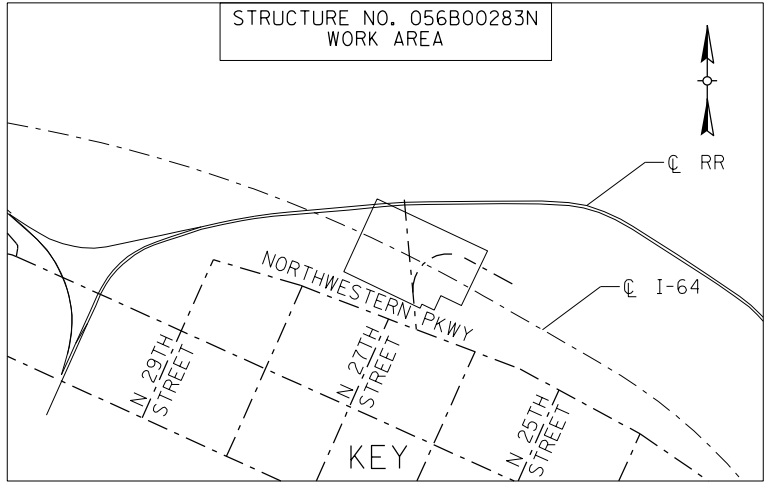
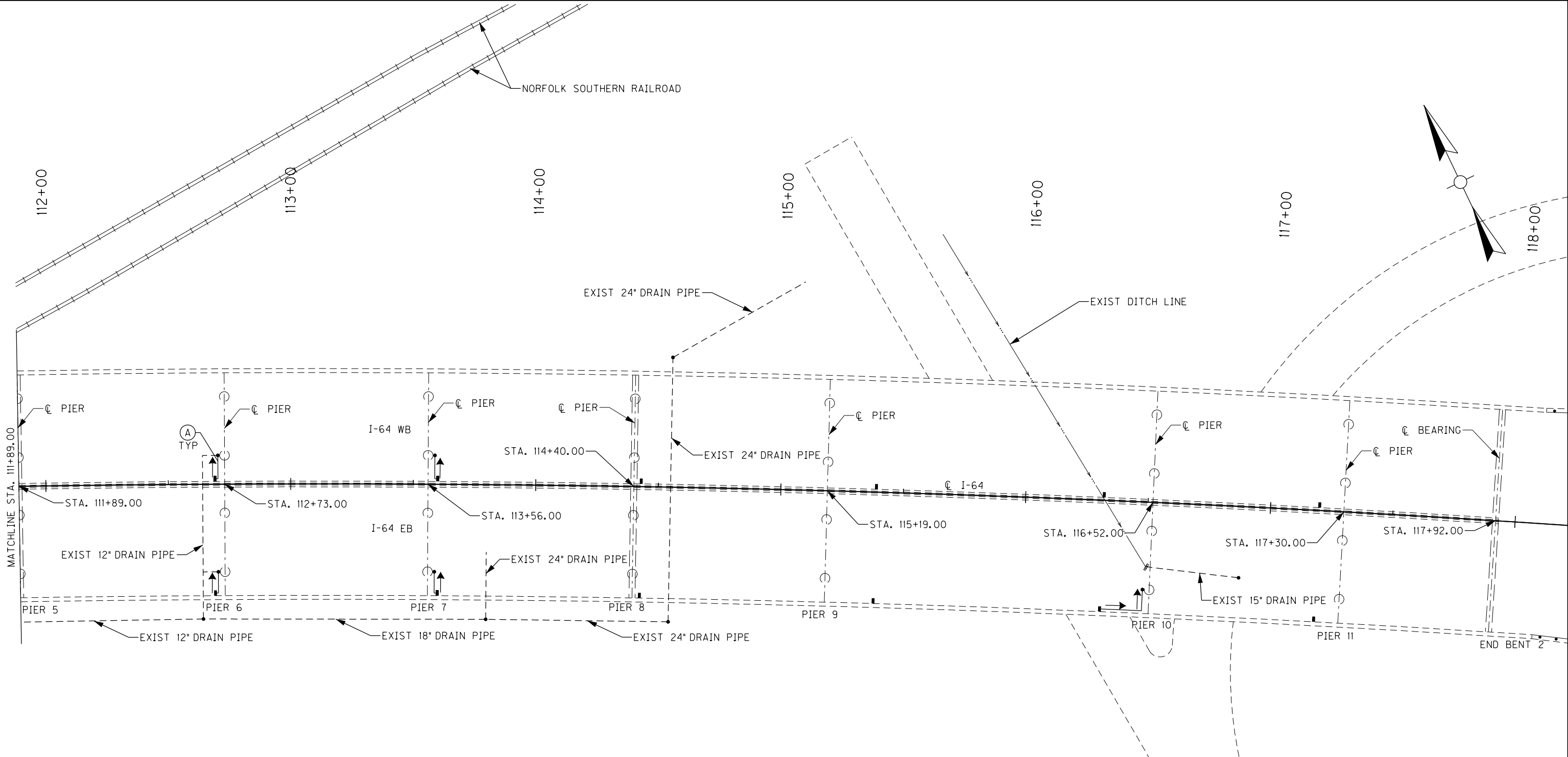


NOTE:  
FOR CONNECTION OF BRIDGE  
DECK DRAINAGE SYSTEM TO  
EXISTING 12" DRAIN PIPE FOR  
PIERS 4 TO 6 SEE DRAINAGE  
DETAIL SHEETS

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| REVISION  |                                 | DATE                 |
| DATE:   | CHECKED BY                      |                      |
| DESIGNED BY: NGA  | PDO                             |                      |
| DETAILED BY: NGA  | PDO                             |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |                      |
| COUNTY<br>JEFFERSON   |                                 |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00283N |                      |
| 283 DRAINAGE LAYOUT - 1   |                                 |                      |
| PREPARED BY   |                                 | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |                                 | D12                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 | DRAWING NO.<br>28870 |

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| ITEM NUMBER |
| 5-10016     |

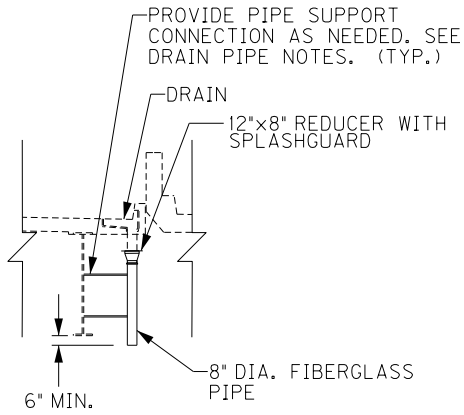
FILE NAME: SHT\_283\_Layout2.dgn  
USER: Nicholas.Allen  
DATE PLOTTED: September 7, 2005  
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



| ITEM NUMBER |
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| 5-10016     |

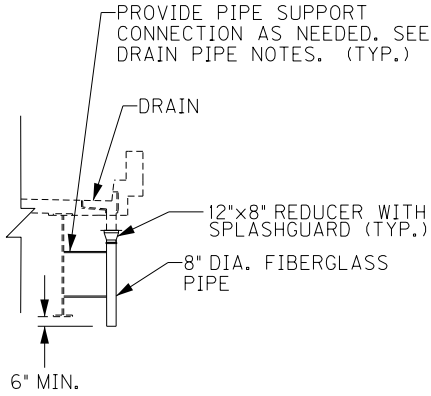
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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00283N |  |
| 283 DRAINAGE LAYOUT – 2   |                                 |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |                                 | SHEET NO.<br>D13<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

FILE NAME: DETAILS.283.DGN  
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020  
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



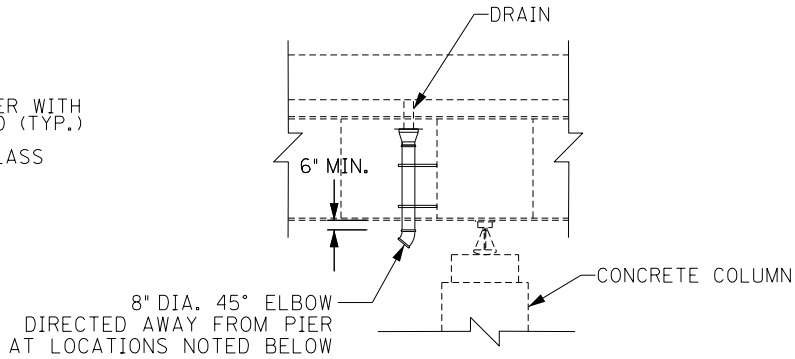
DOWNSPOUT DETAIL – MEDIAN

TRANSVERSE SECTION  
(7 LOCATIONS)



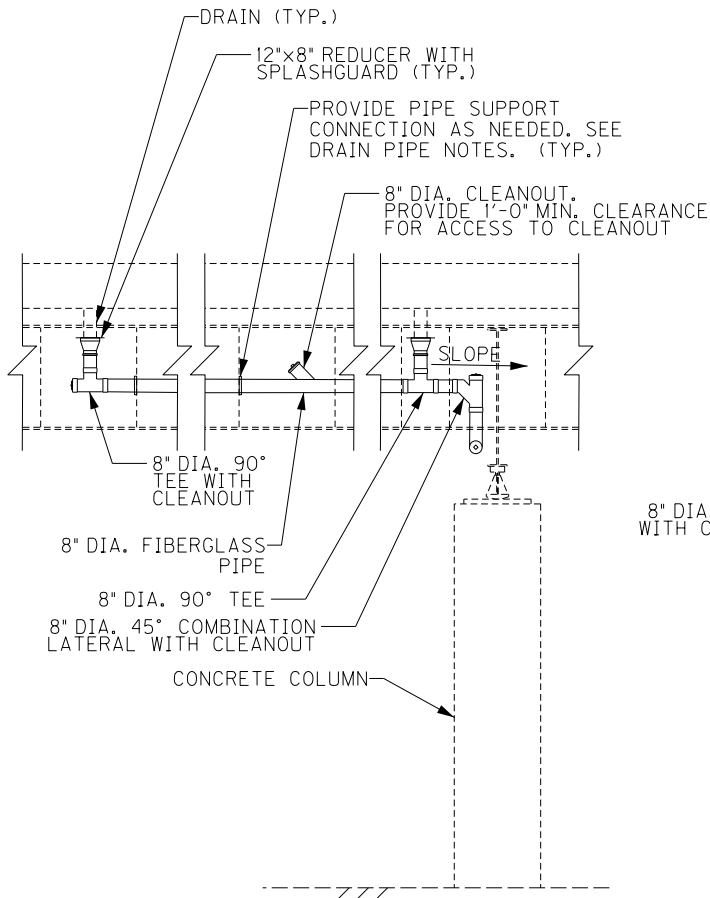
DOWNSPOUT DETAIL – FASCIA

TRANSVERSE SECTION  
(4 LOCATIONS)



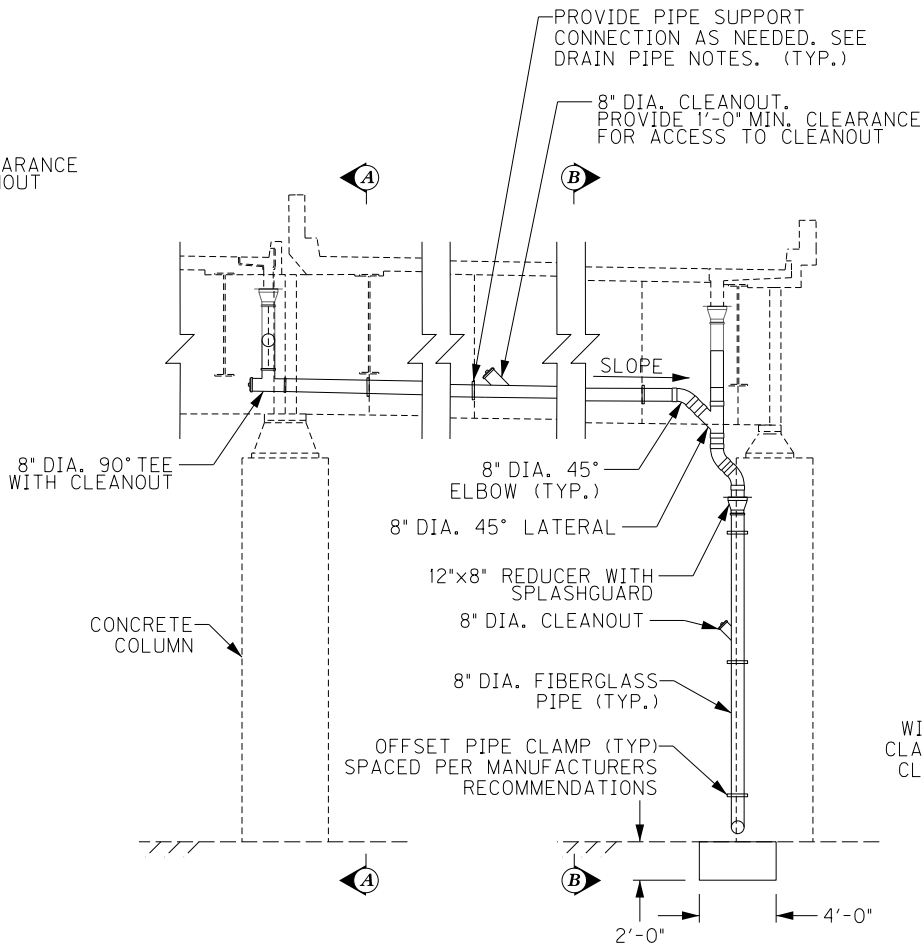
DOWNSPOUT DETAIL – COLUMN

LONGITUDINAL SECTION  
PIERS 1, 2 AND 8 (MEDIAN)  
PIER 8 (FASCIA)  
4 LOCATIONS



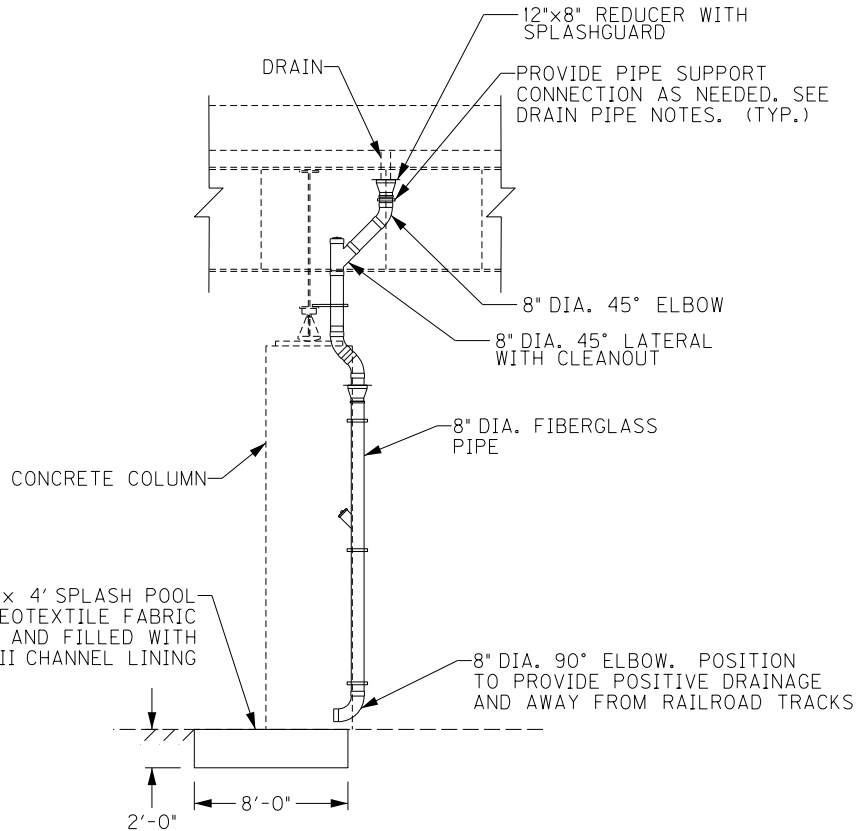
SECTION A-A

LONGITUDINAL SECTION  
PIER 3 CENTER COLUMN SHOWN  
(LOOKING NORTH)



DRAINAGE DETAIL – ELEVATION

TRANSVERSE SECTION  
PIER 3  
(LOOKING EAST)



SECTION B-B

LONGITUDINAL SECTION  
PIER 3 SOUTH COLUMN SHOWN  
(LOOKING SOUTH)

ITEM NUMBER

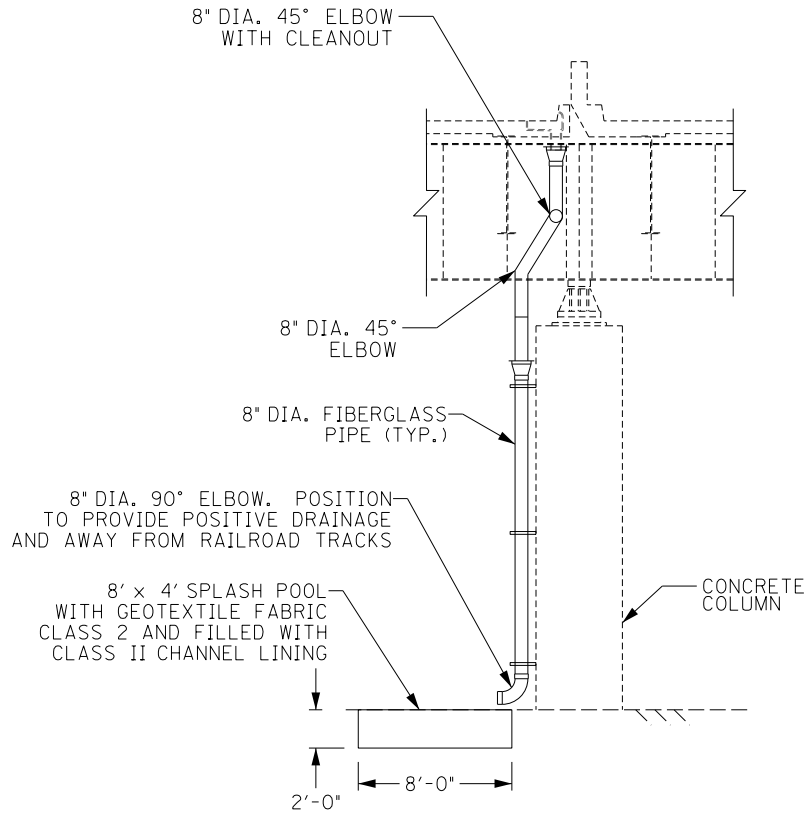
5-10016

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| REVISION  |                                 | DATE                 |
| DATE: FEB 2021  | CHECKED BY                      |                      |
| DESIGNED BY: PDO  | DMB                             |                      |
| DETAILED BY: MLO  | PDO                             |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |                      |
| COUNTY<br>JEFFERSON   |                                 |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00283N |                      |
| 283 DRAINAGE DETAILS – 1  |                                 |                      |
| PREPARED BY   |                                 | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |                                 | D14                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 | DRAWING NO.<br>28870 |

FILE NAME:  
DETAILS.283.DGN

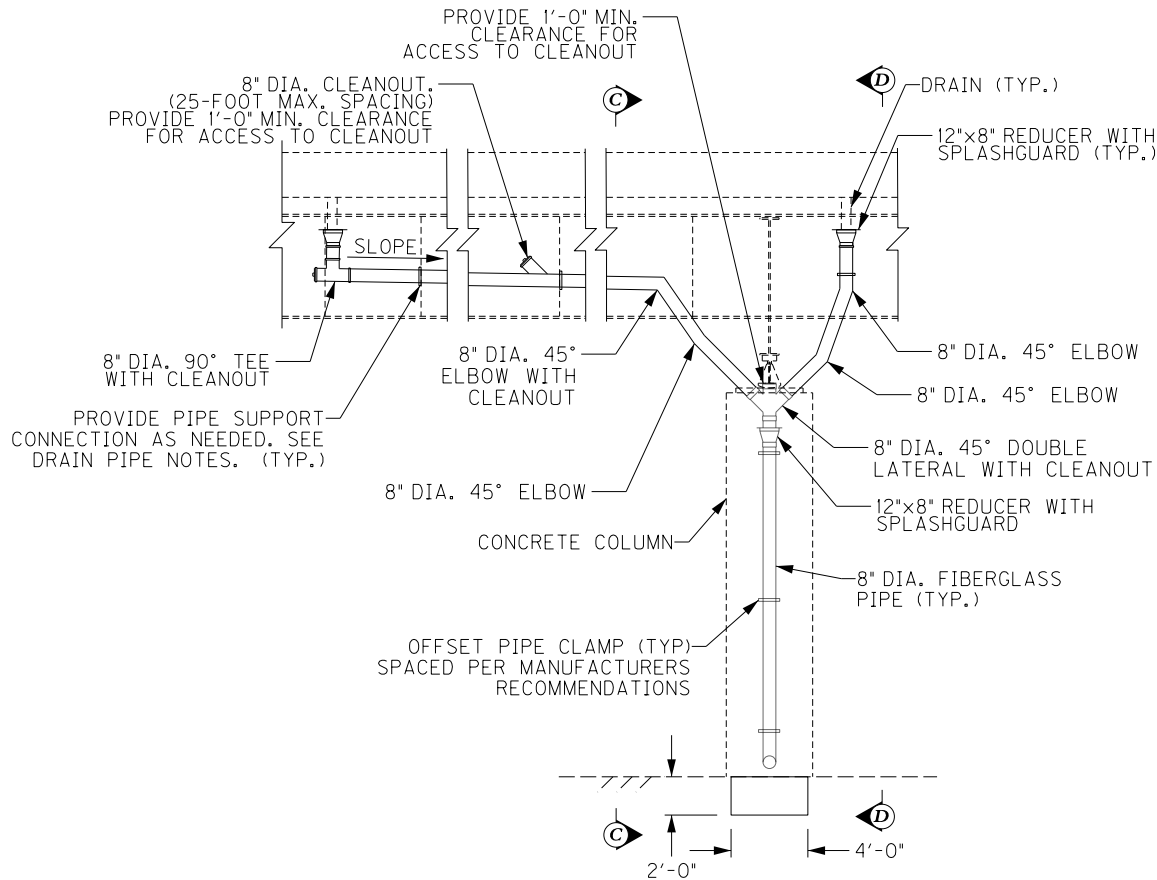
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



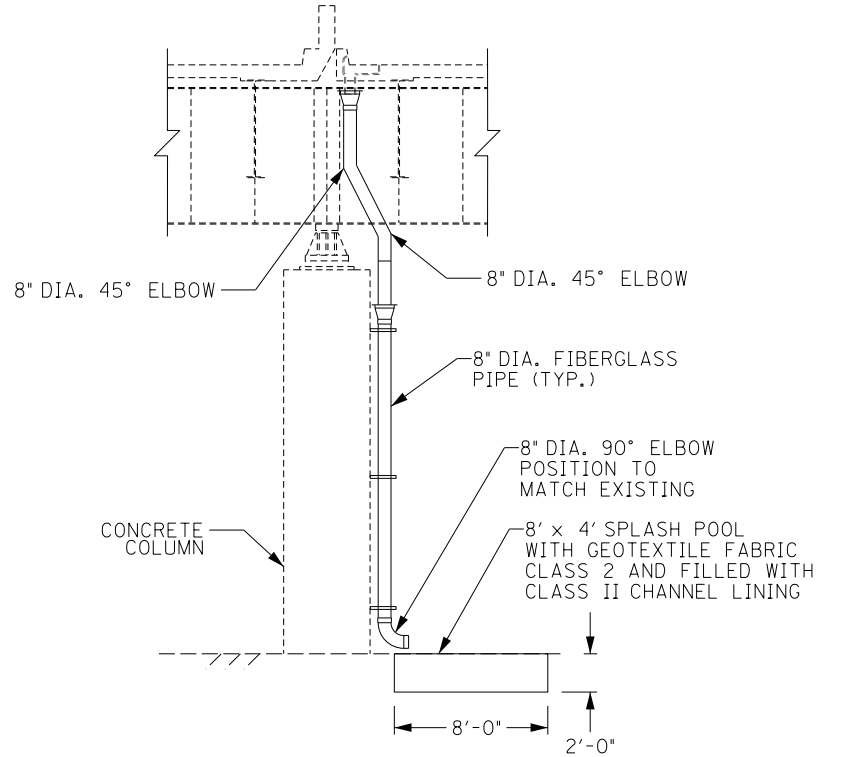
**SECTION C-C**

TRANSVERSE SECTION  
PIER 4 CENTER COLUMN SHOWN  
(LOOKING EAST)



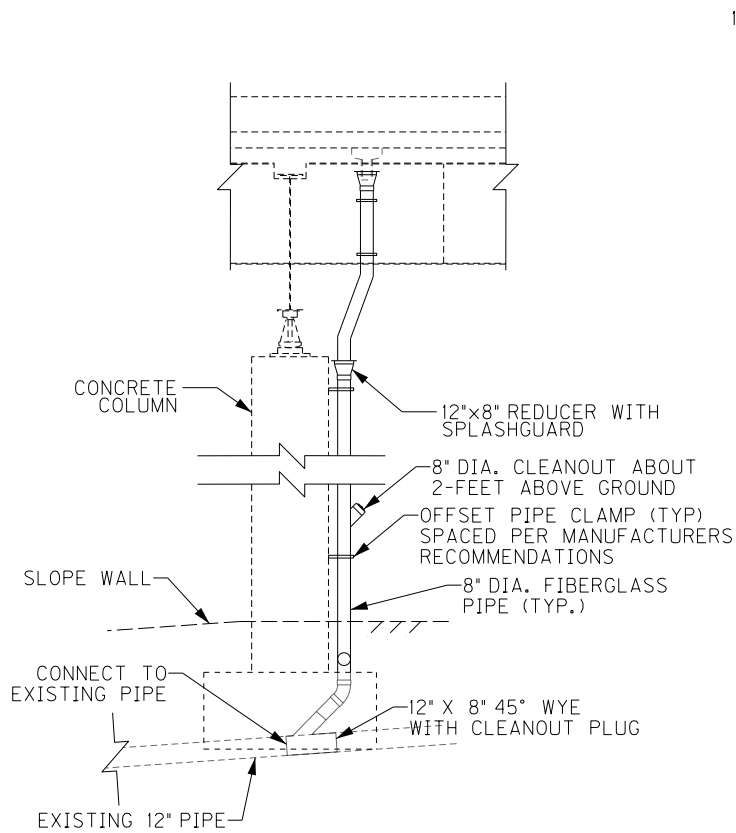
**DRAINAGE DETAIL - ELEVATION**

LONGITUDINAL SECTION  
PIER 4 CENTER COLUMN SHOWN  
(LOOKING NORTH)



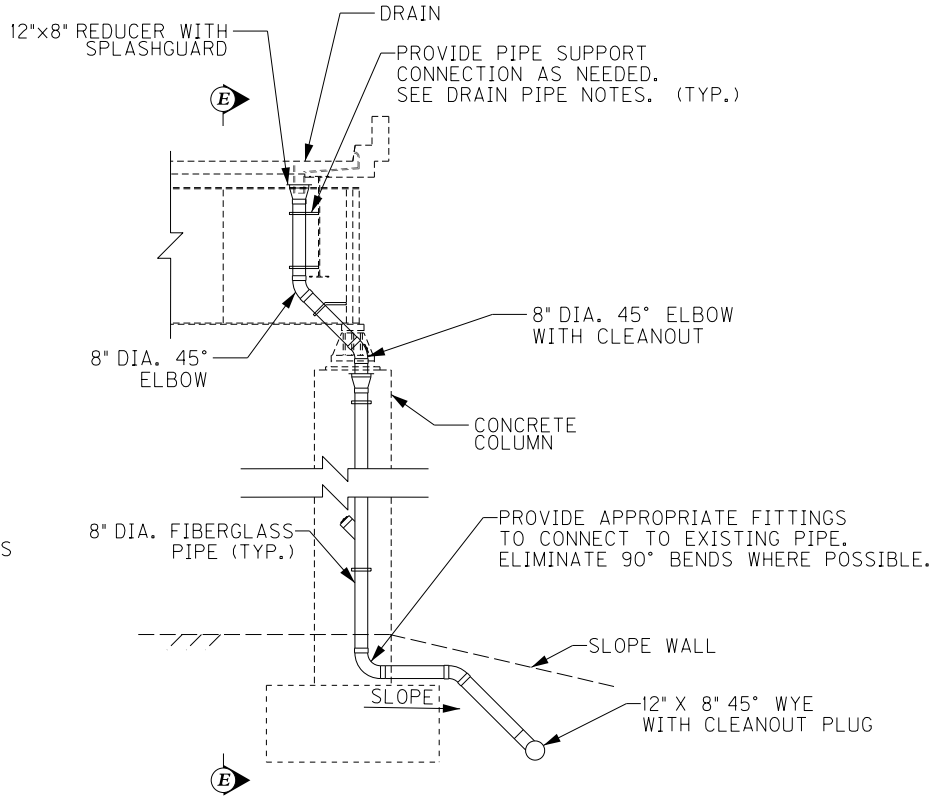
**SECTION D-D**

TRANSVERSE SECTION  
PIER 4 CENTER COLUMN SHOWN  
(LOOKING WEST)



**SECTION E-E**

LONGITUDINAL SECTION  
PIER 4 SOUTH COLUMN SHOWN  
(LOOKING SOUTH)



**DRAINAGE DETAIL - ELEVATION**

TRANSVERSE SECTION  
PIER 4 SOUTH COLUMN SHOWN  
(LOOKING EAST)

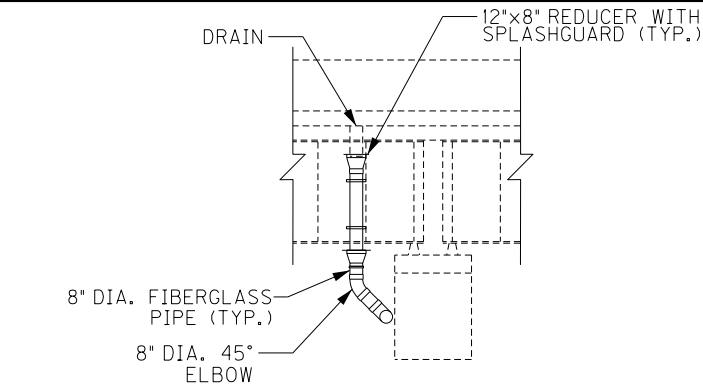
NOTE:

FOR CONNECTION TO EXISTING PIPE, SAWCUT EXISTING CONCRETE SLOPE WALL AND REPLACE. MATCH EXISTING SLOPES. (TYP.)

SEE STANDARD DRAWING RDI-025-06 FOR FIBERGLASS PIPE INSTALLATION FROM PIER COLUMN TO EXISTING 12" PIPE. PIPE SHALL BE INSTALLED PER KYTC STANDARD SPECIFICATION SECTION 701 SIMILAR TO THERMOPLASTIC PIPE. COST FOR REMOVING UNDERGROUND PIPING IS CONSIDERED INCIDENTAL.

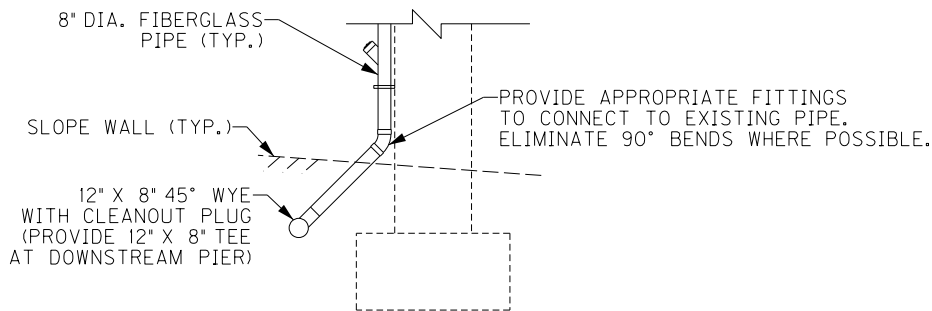
| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
|-------------|--|---|--|----------------------|--|
| 5-10016     |  | Michael Baker International   |  | D15                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com |  | DRAWING NO.<br>28870 |  |

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020  
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020  
FILE NAME: DETAILS\_283.DGN



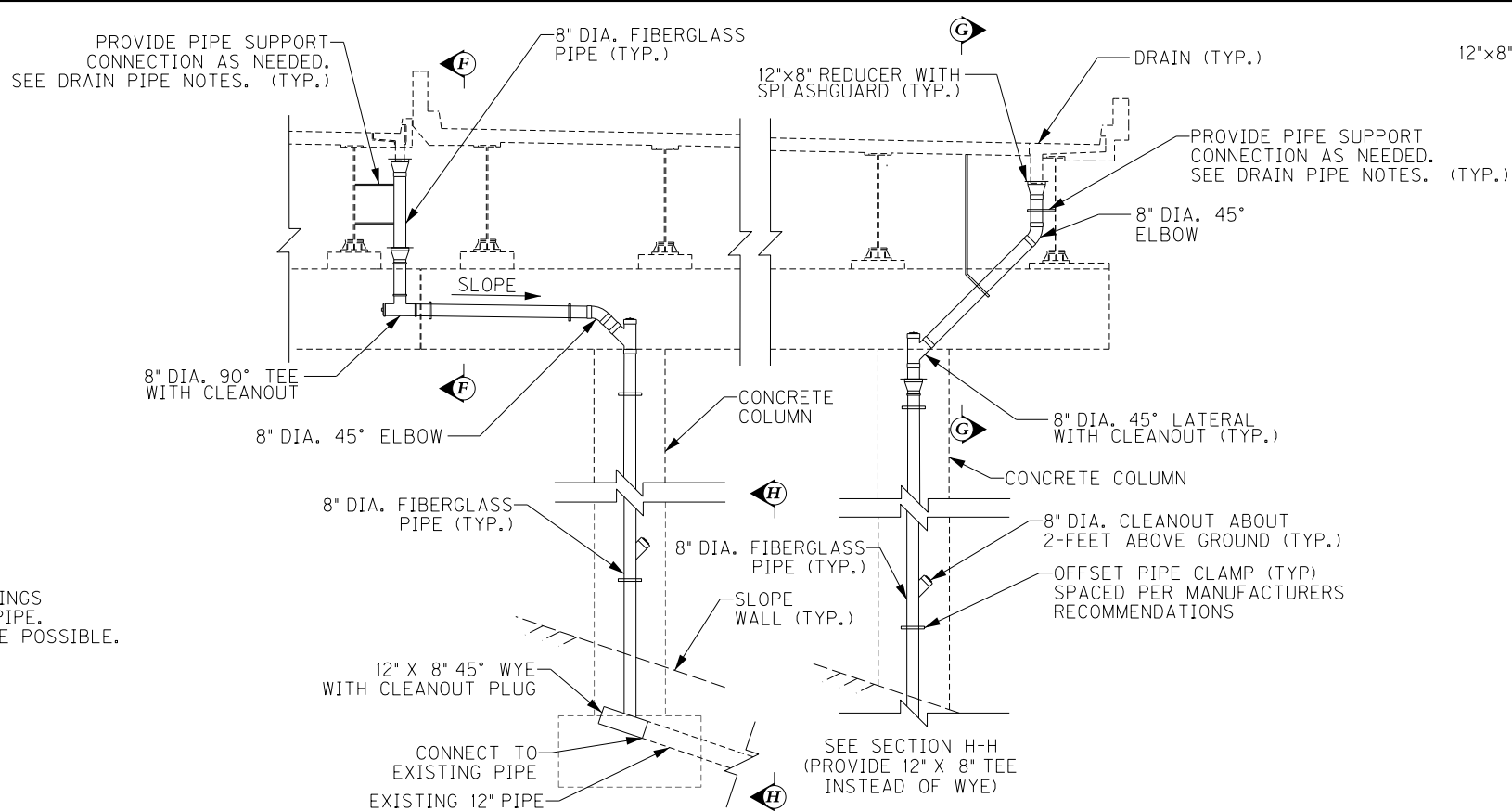
### SECTION F-F

LONGITUDINAL SECTION  
PIER 5 W.B.  
(LOOKING NORTH)  
PIER 6 W.B. SIMILAR  
PIER 7 W.B. SIMILAR EXCEPT MIRRORED



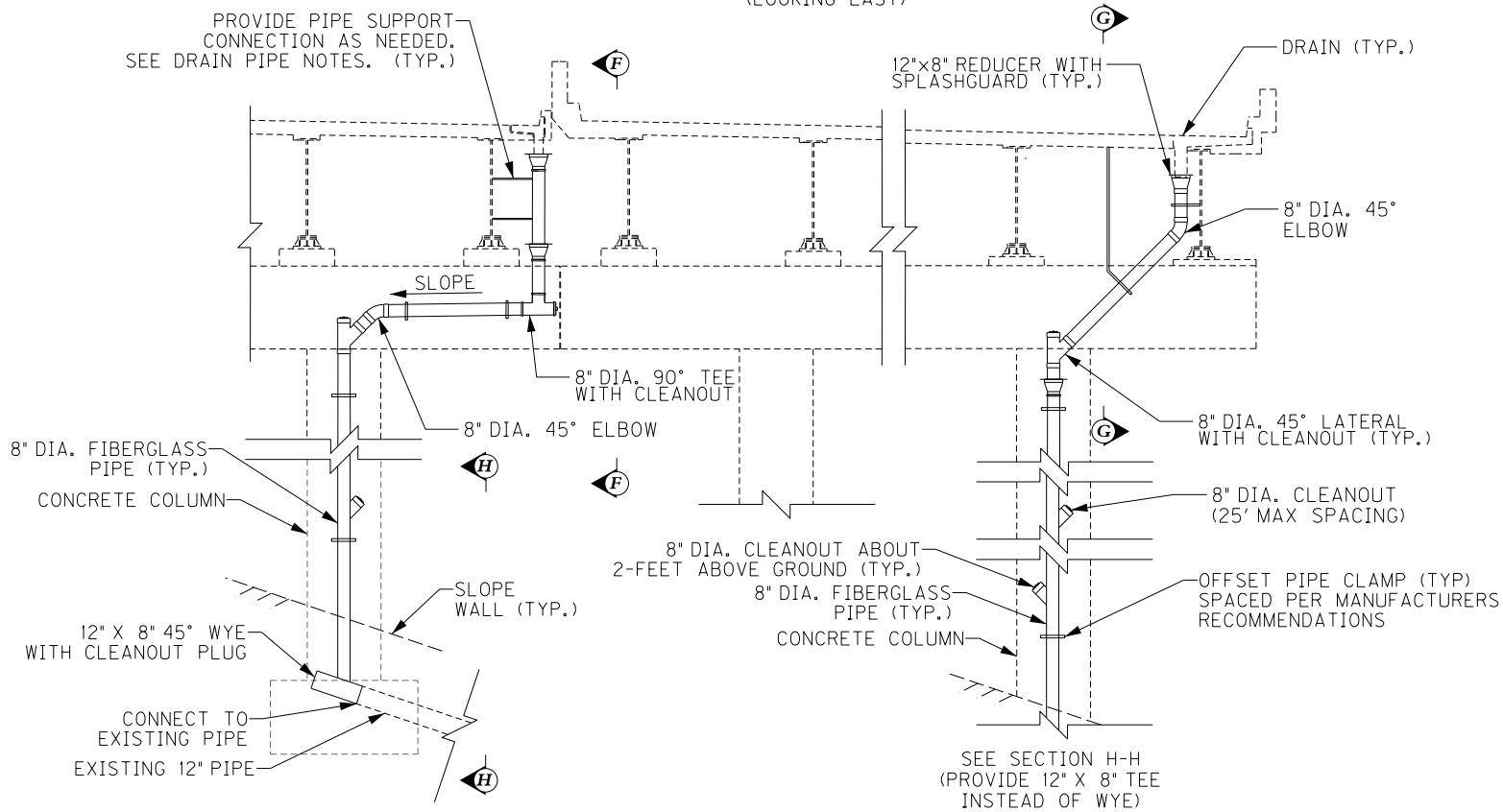
### SECTION H-H

LONGITUDINAL SECTION  
PIER 5 W.B. SHOWN  
(LOOKING NORTH)  
PIERS 5 & 6 E.B. SIMILAR



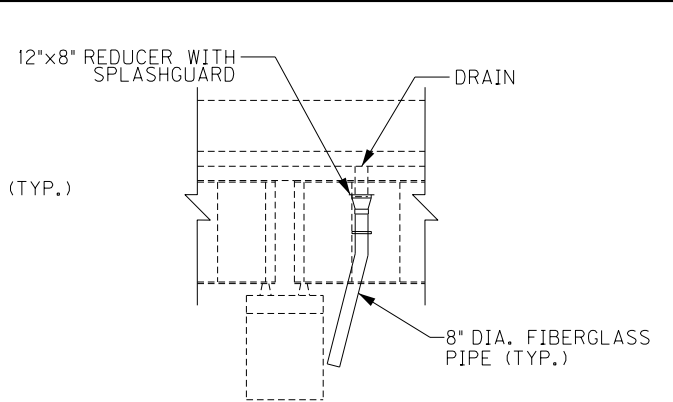
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 5  
(LOOKING EAST)



### DRAINAGE DETAIL - ELEVATION

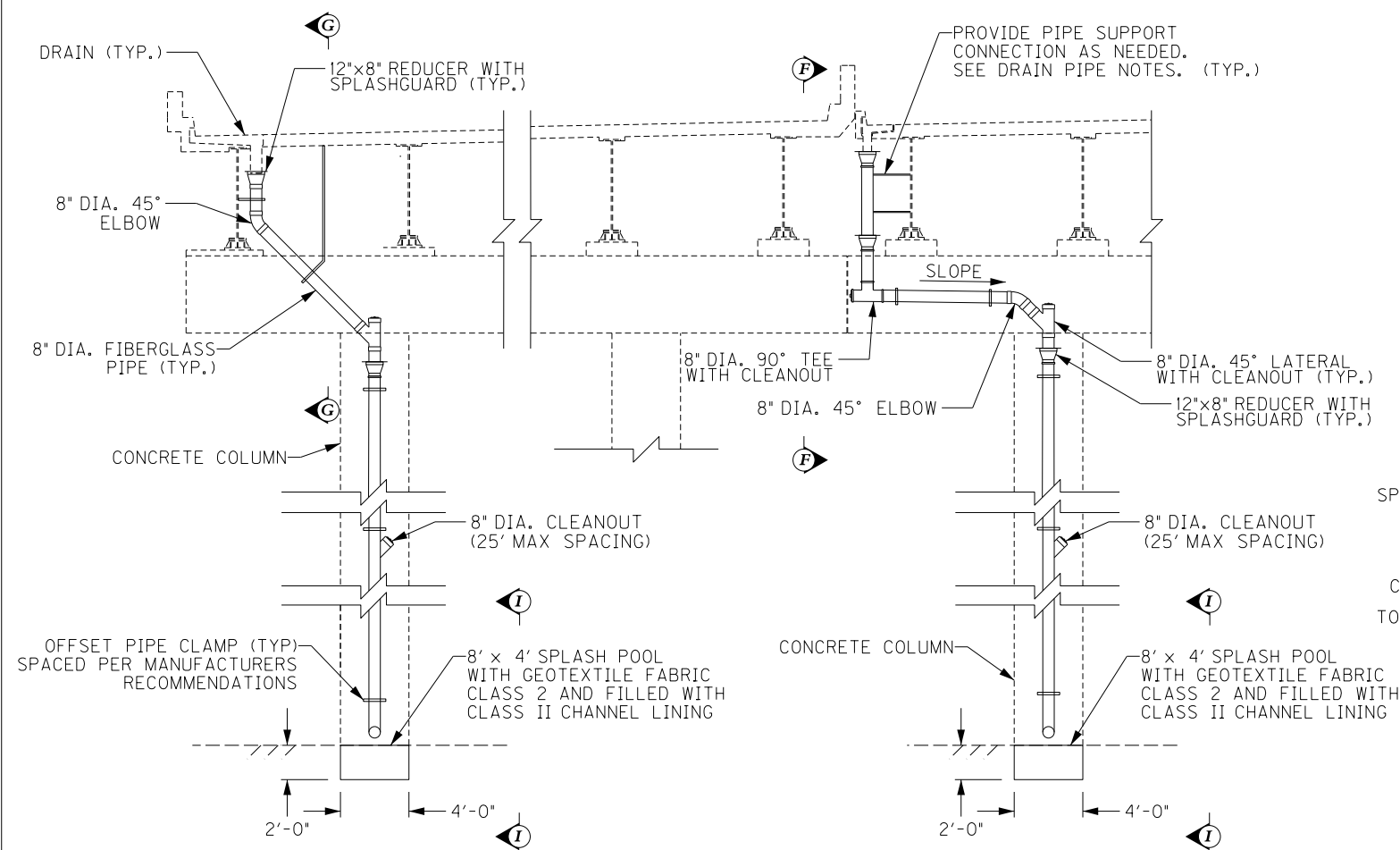
TRANSVERSE SECTION  
PIER 6  
(LOOKING EAST)



### SECTION G-G

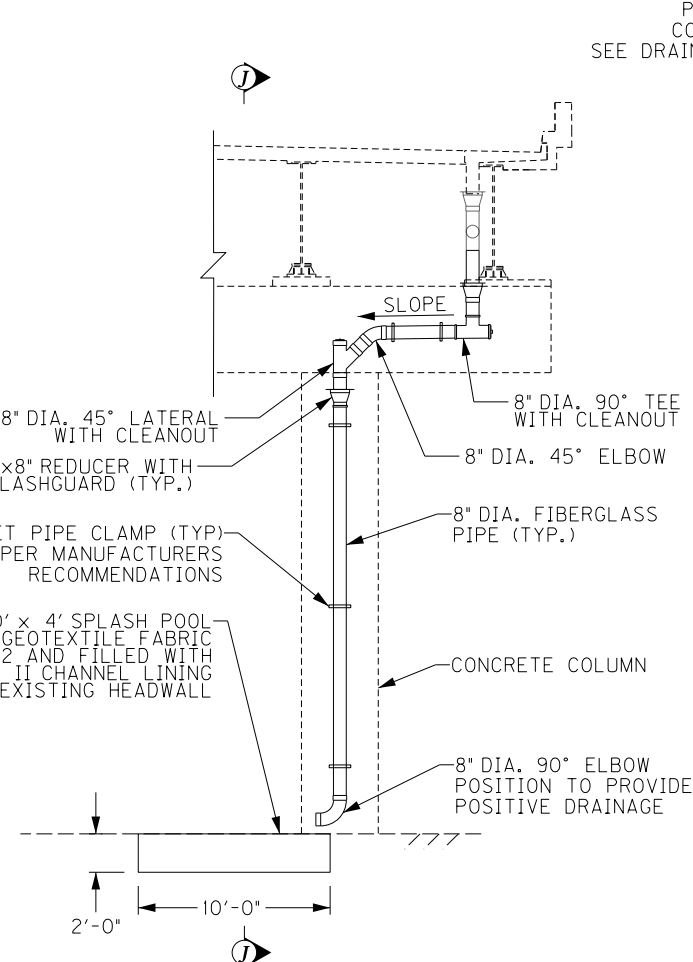
LONGITUDINAL SECTION  
PIER 5 E.B.  
(LOOKING SOUTH)  
PIER 6 E.B. SIMILAR  
PIER 7 E.B. SIMILAR EXCEPT MIRRORED

|   |                                 |            |                      |
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| REVISION  |                                 | DATE       |                      |
| DATE: FEB 2021  |                                 | CHECKED BY |                      |
| DESIGNED BY: PDO  |                                 | DMB        |                      |
| DETAILED BY: MLO  |                                 | PDO        |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |            |                      |
| COUNTY<br>JEFFERSON   |                                 |            |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00283N |            |                      |
| 283 DRAINAGE DETAILS – 3  |                                 |            |                      |
| PREPARED BY   |                                 |            | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |                                 |            | D16                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |            | DRAWING NO.<br>28870 |



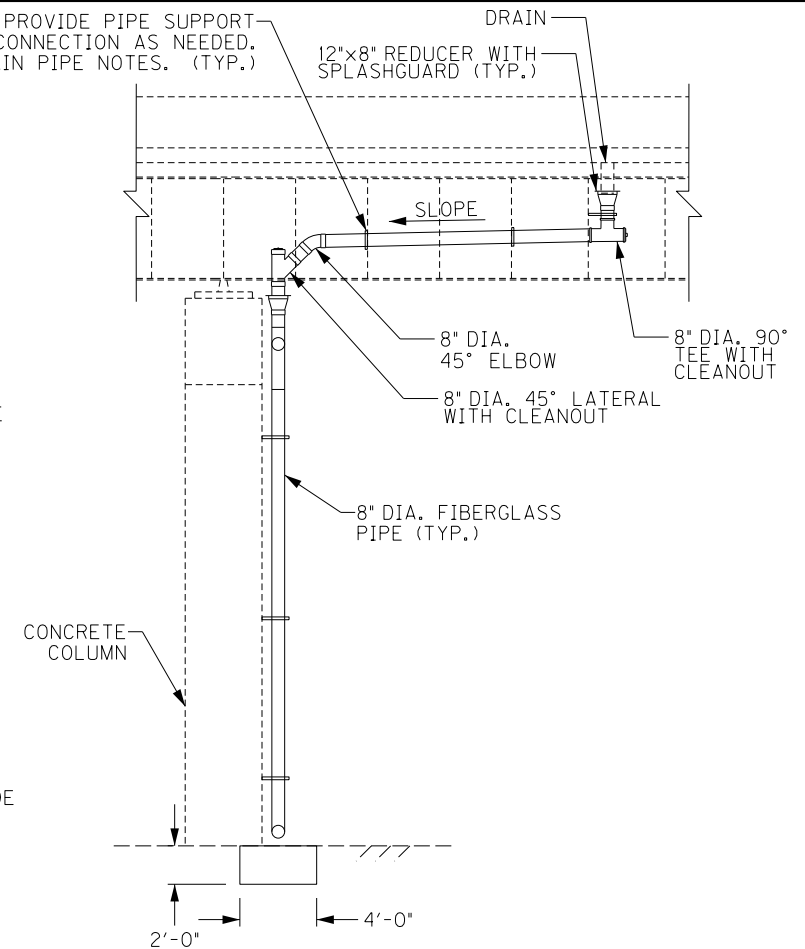
### DRAINAGE DETAIL – ELEVATION

TRANSVERSE SECTION  
PIER 7 E.B. & W.B.  
(LOOKING WEST)



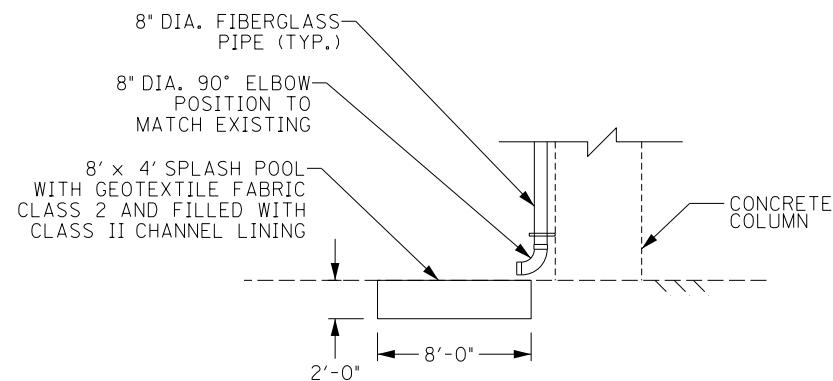
## DRAINAGE DETAIL – ELEVATION

TRANSVERSE SECTION  
PIER 10  
(LOOKING EAST)



## SECTION J-J

LONGITUDINAL SECTION  
PIER 10  
(LOOKING SOUTH)

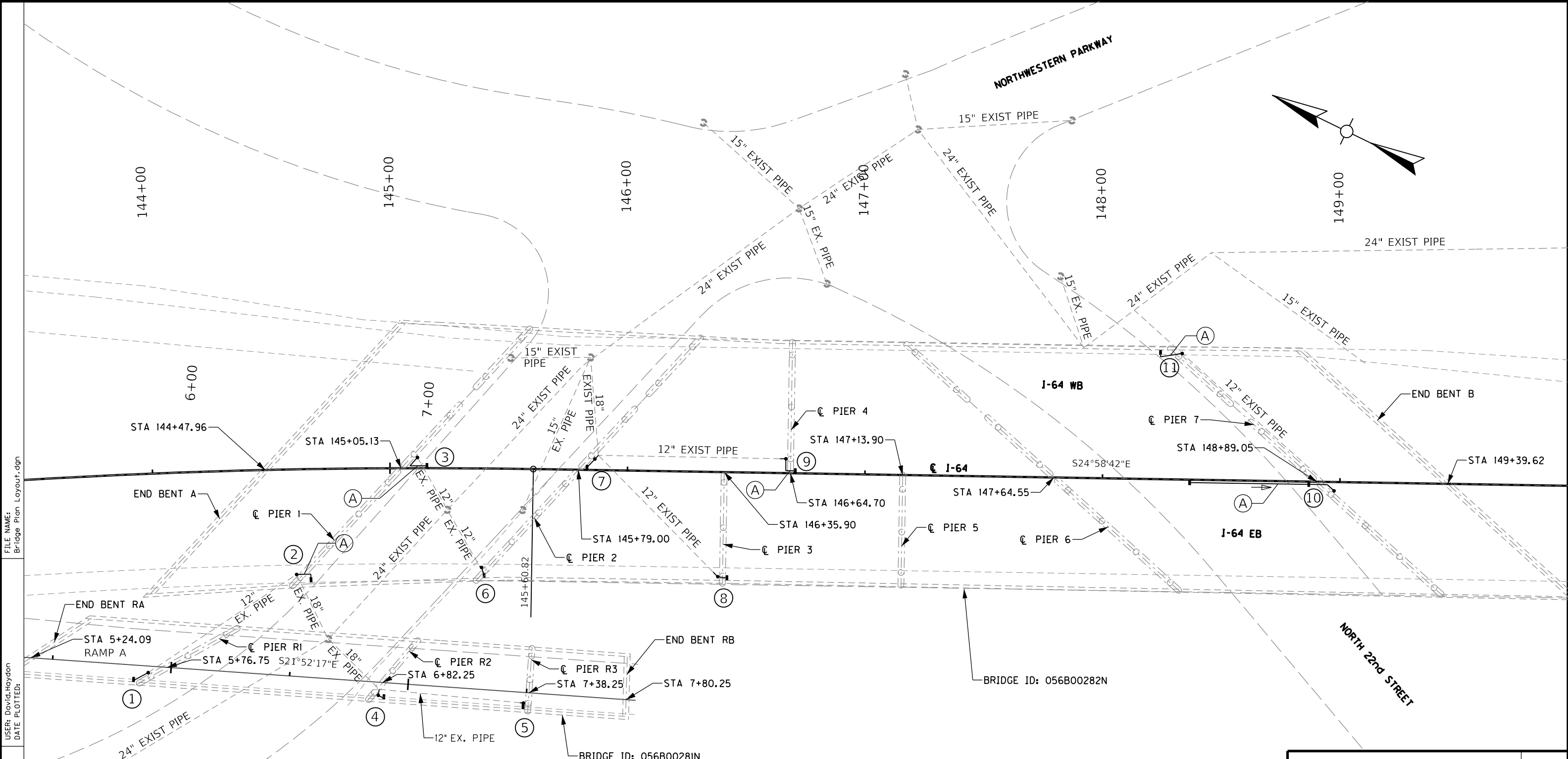


## SECTION I-I

LONGITUDINAL SECTION  
PIER 7  
(LOOKING SOUTH)

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| REVISION   |  | DATE  |  |
| DATE: FEB 2021   |  | CHECKED BY  |  |
| DESIGNED BY: PDO   |  | DMB   |  |
| DETAILED BY: MLO   |  | PDO   |  |
| <p align="center"><b>Commonwealth of Kentucky</b><br/> <b>DEPARTMENT OF HIGHWAYS</b></p>               |  |   |  |
| <p align="center">COUNTY<br/> <b>JEFFERSON</b></p>   |  |   |  |
| ROUTE<br><b>I-64</b>   | CROSSING<br><b>STR. NO. 056B00283N</b> |   |  |
| <b>283 DRAINAGE DETAILS - 4</b>  |  |   |  |
| <p align="center">PREPARED BY</p> <p align="center"><b>Michael Baker</b><br/> <b>INTERNATIONAL</b></p> |  | <p>1650 Lyndon Farm Court<br/> Louisville, KY 40223<br/> Phone: (502) 339-3557<br/> <b>MBAKERINTL.COM</b></p> |  |
|  |  | <p align="center">SHEET NO.<br/> <b>D17</b></p> <p align="center">DRAWING NO.<br/> <b>28870</b></p>           |  |

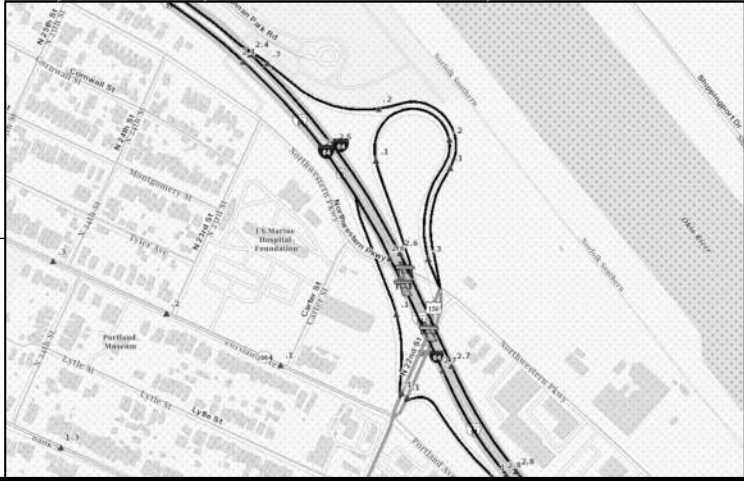




FILE NAME:  
Bridge Plan Layout.dgn

USER: David.Hoydon  
DATE PLOTTED:

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



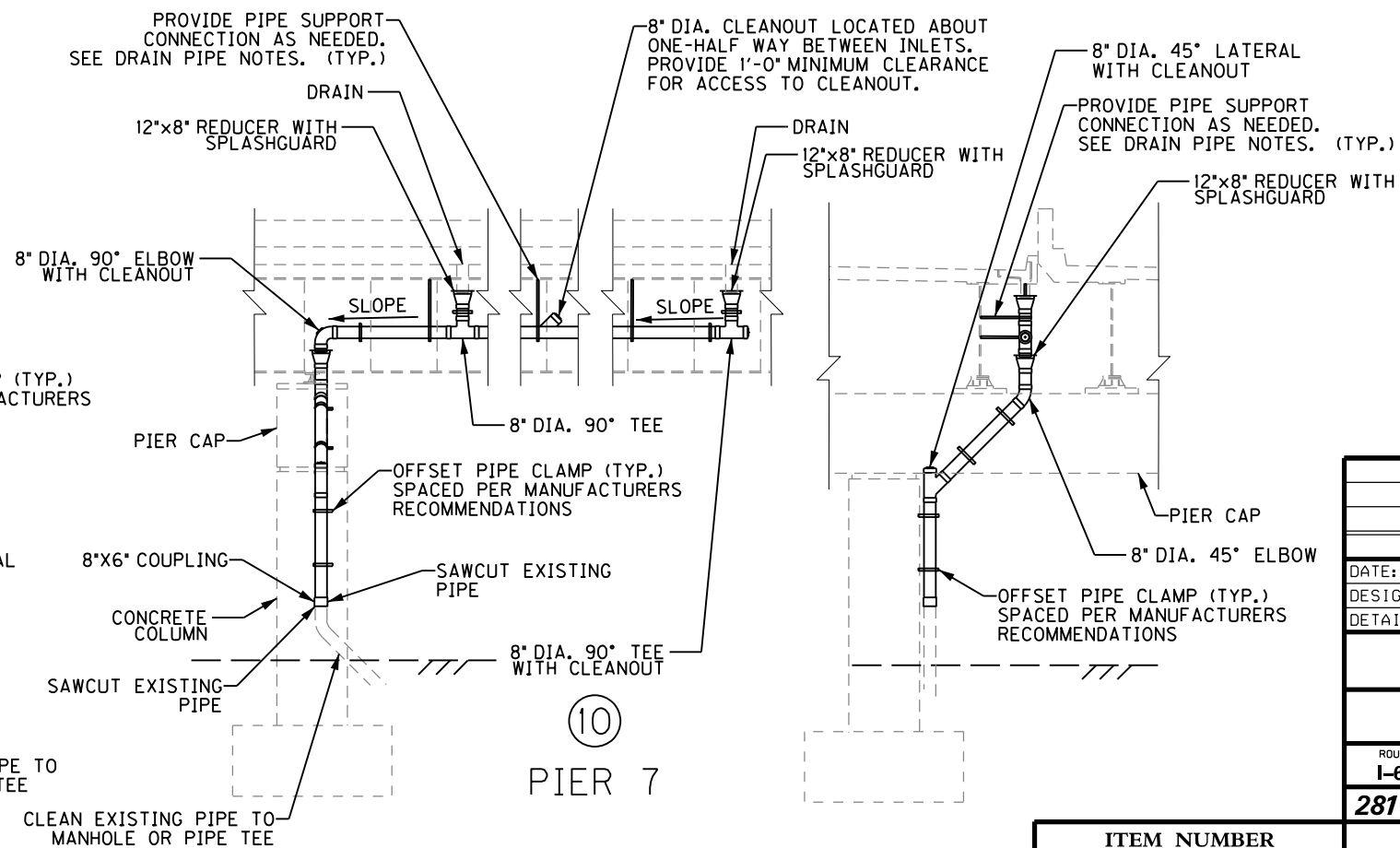
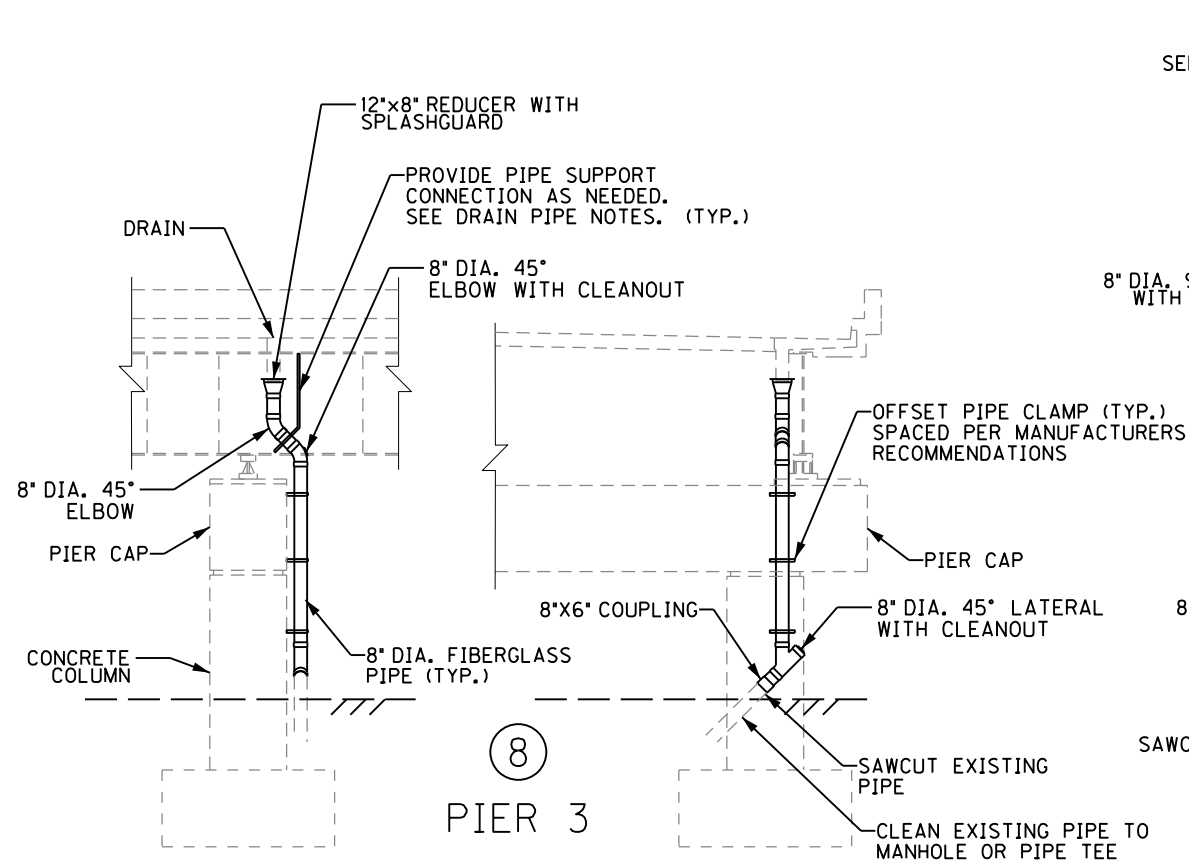
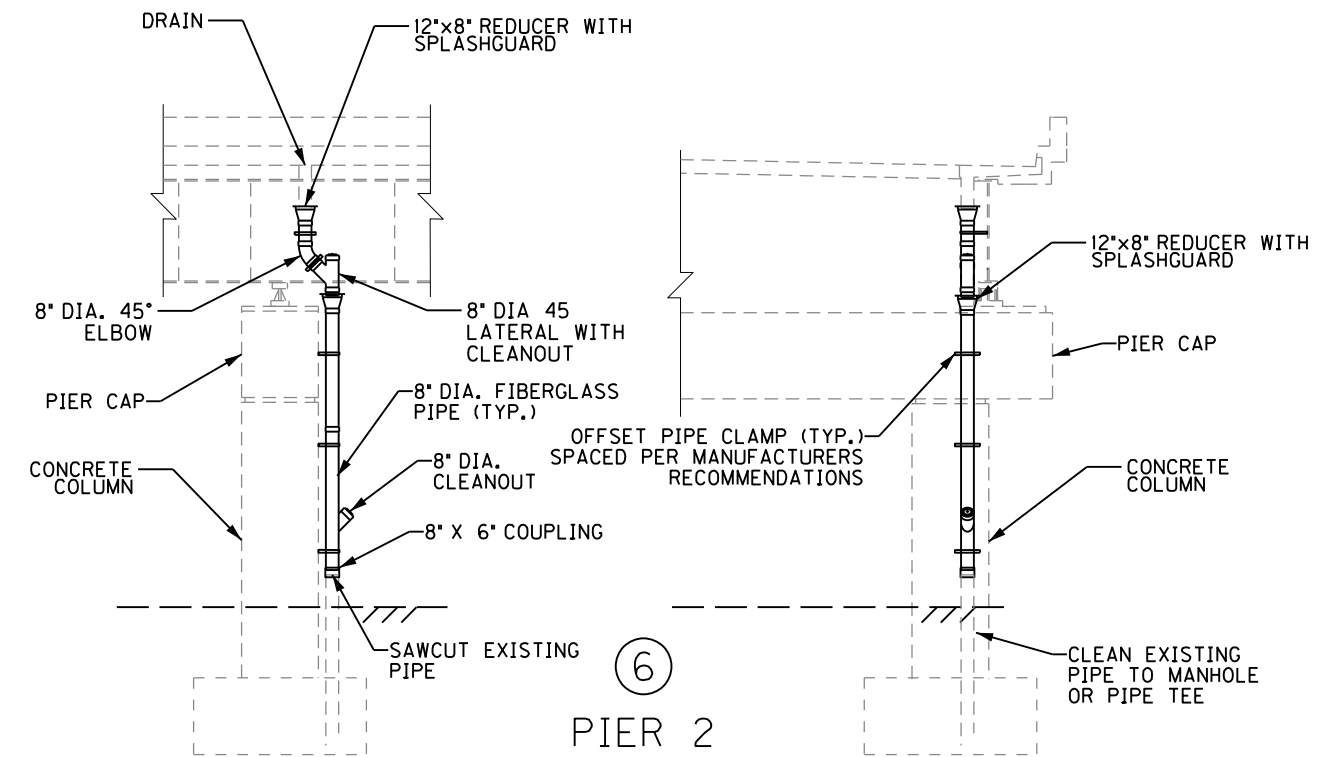
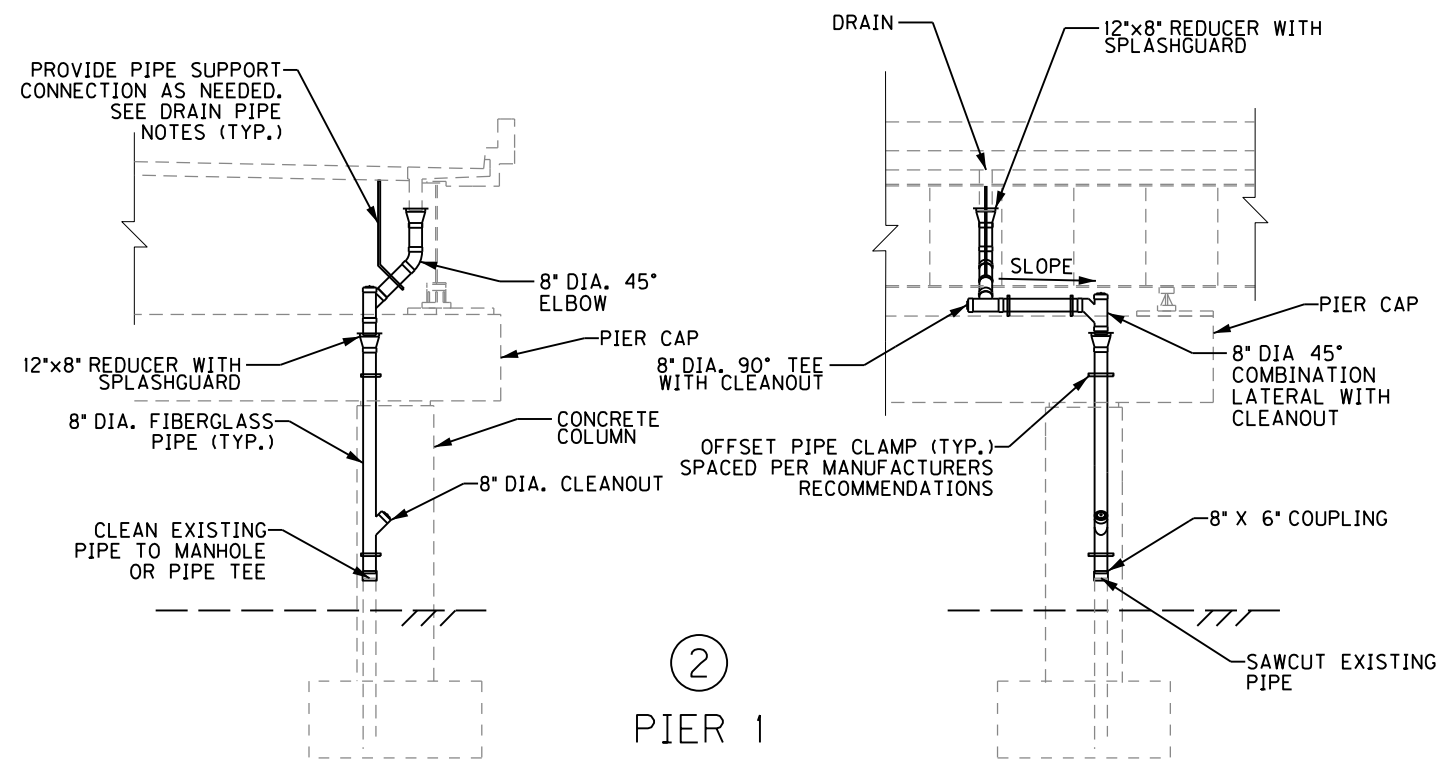
| LABEL | DIAMETER | MIN. SLOPE | LABEL | DIAMETER | MIN. SLOPE |
|-------|----------|------------|-------|----------|------------|
| A     | 8"       | 0.60%      | P     | 10"      | 0.40%      |
| B     | 8"       | 0.80%      | Q     | 10"      | 0.60%      |
| C     | 8"       | 1.00%      | R     | 10"      | 0.80%      |
| D     | 8"       | 1.20%      | S     | 10"      | 1.00%      |
| E     | 8"       | 1.40%      | T     | 10"      | 1.20%      |
| F     | 8"       | 1.60%      | U     | 10"      | 1.40%      |
| H     | 8"       | 1.80%      | V     | 10"      | 1.60%      |
| I     | 8"       | 2.00%      | W     | 10"      | 1.80%      |
|       |          |            |       |          |            |



| ITEM NUMBER |
|-------------|
| 5-10016     |

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|---|--|--|--|
|   |  |  |  |
| REVISION  |  | DATE   |  |
| DATE: 1/31/24   |  | CHECKED BY   |  |
| DESIGNED BY: DCH  |  | PDO  |  |
| DETAILED BY: DCH  |  | PDO  |  |
| <b>Commonwealth of Kentucky</b><br><b>DEPARTMENT OF HIGHWAYS</b>  |  |  |  |
| COUNTY<br><b>JEFFERSON</b>  |  |  |  |
| ROUTE<br><b>I-64</b>  |  | CROSSING<br><b>STR. NOS. 056B00281N AND 282N</b>       |  |
| <b>281 AND 282 DRAINAGE LAYOUT</b>  |  |  |  |
| PREPARED BY<br><b>Michael Baker</b><br>INTERNATIONAL  |  | SHEET NO.<br><b>D18</b><br>DRAWING NO.<br><b>28870</b> |  |
| <small>1650 Lyndon Farm Court<br/>Louisville, KY 40223<br/>Phone: (502) 339-3557<br/>MBAKERINTL.COM</small> |  |  |  |

# I-64 EASTBOUND



IF PIPE MANUFACTURER RECOMMENDS PIPE SUPPORT CONNECTION TO SUPERSTRUCTURE BETWEEN DRAIN AND THE SUBSTRUCTURE, CONTRACTOR SHALL PROVIDE ADDITIONAL 12" X 8" REDUCER WITH SPLASHGUARD NEAR THE PIER CAP.

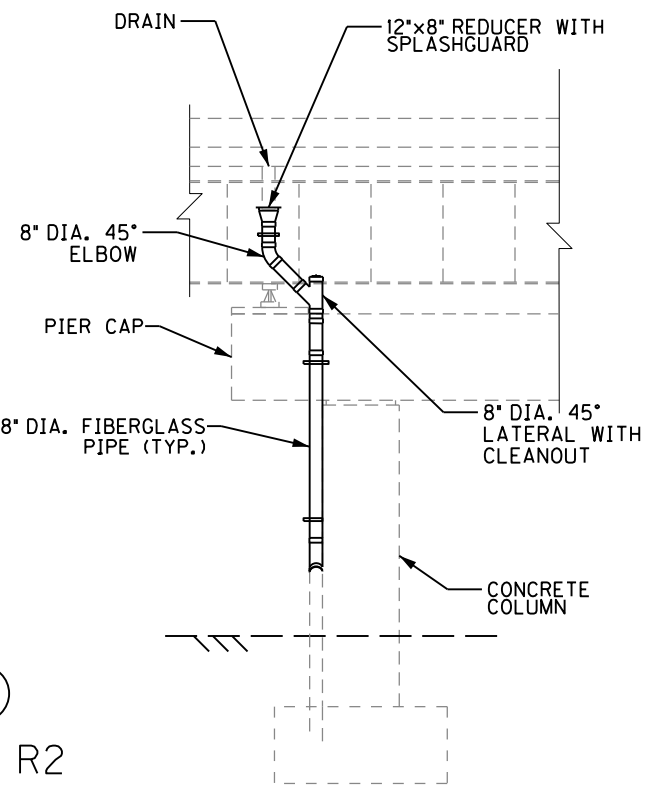
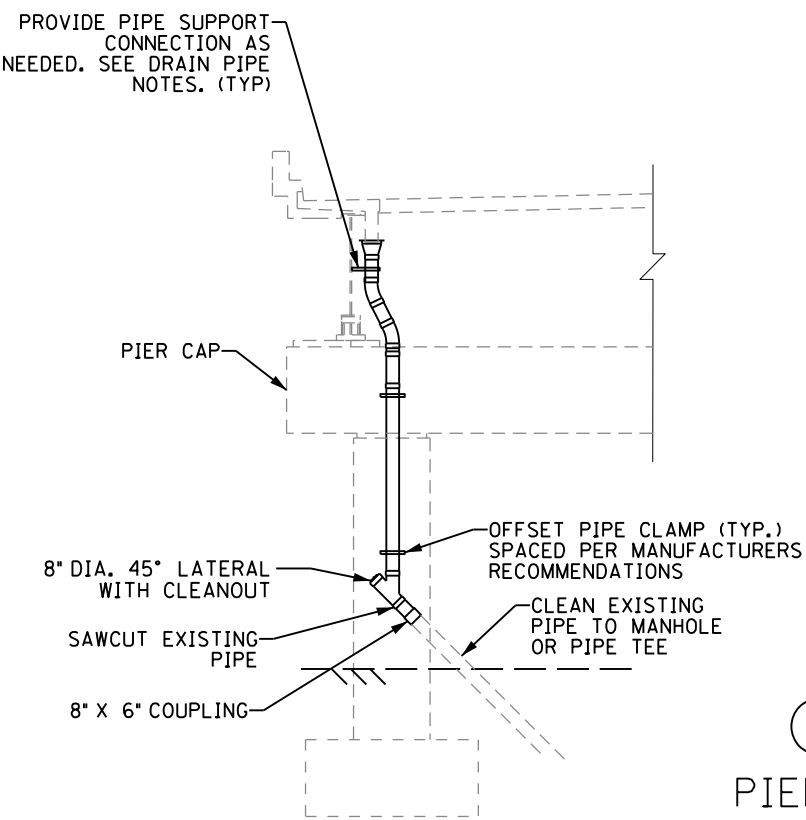
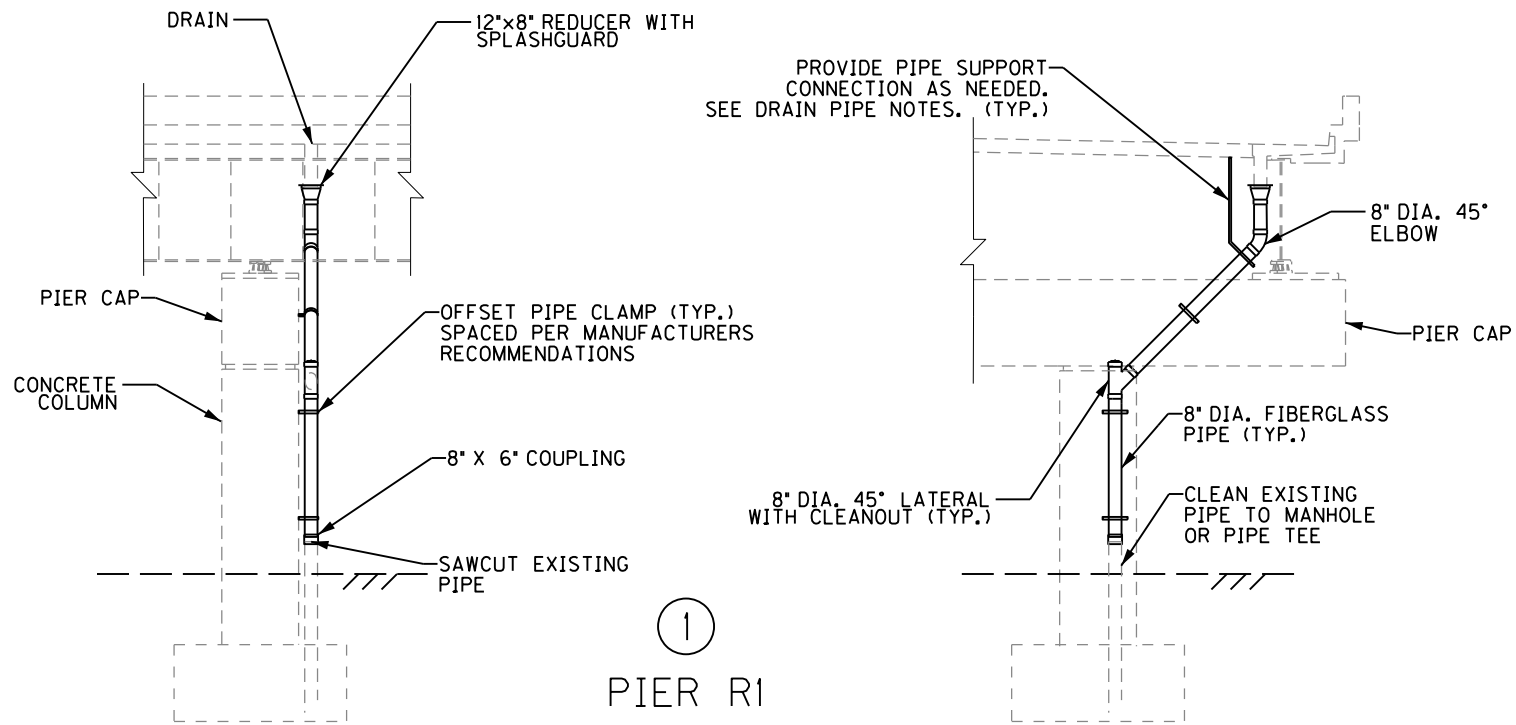
CLEAN EXISTING PIPE TO MANHOLE OR PIPE TEE

ITEM NUMBER

5-10016

| REVISION   |   | DATE                                     |
|--|---|--|
| DATE: 1/31/24                                      | DESIGNED BY: DCH  | CHECKED BY: PDO                          |
| DETAILED BY: DCH                                   | DESIGNED BY: DCH  | CHECKED BY: PDO                          |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |   |  |
| COUNTY<br>JEFFERSON                                |   |  |
| ROUTE<br>I-64                                      | CROSSING<br>STR. NOS. 056B00281N AND 282N   |  |
| 281 AND 282 DRAINAGE DETAILS-1                     |   |  |
| PREPARED BY<br>Michael Baker International         | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | SHEET NO.<br>D19<br>DRAWING NO.<br>28870 |

I-64 EASTBOUND EXIT RAMP A



|   |  |   |  |
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| REVISION  |  | DATE                                      |  |
| DATE: 1/31/24   |  | CHECKED BY                                |  |
| DESIGNED BY: DCH  |  | PDO                                       |  |
| DETAILED BY: DCH  |  | PDO                                       |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |   |  |
| COUNTY<br>JEFFERSON   |  |   |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NOS. 056B00281N AND 282N |  |
| 281 AND 282 DRAINAGE DETAILS-2  |  |   |  |
| PREPARED BY   |  | SHEET NO.                                 |  |
| Michael Baker<br>INTERNATIONAL  |  | D20<br>DRAWING NO.<br>28870               |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |   |  |

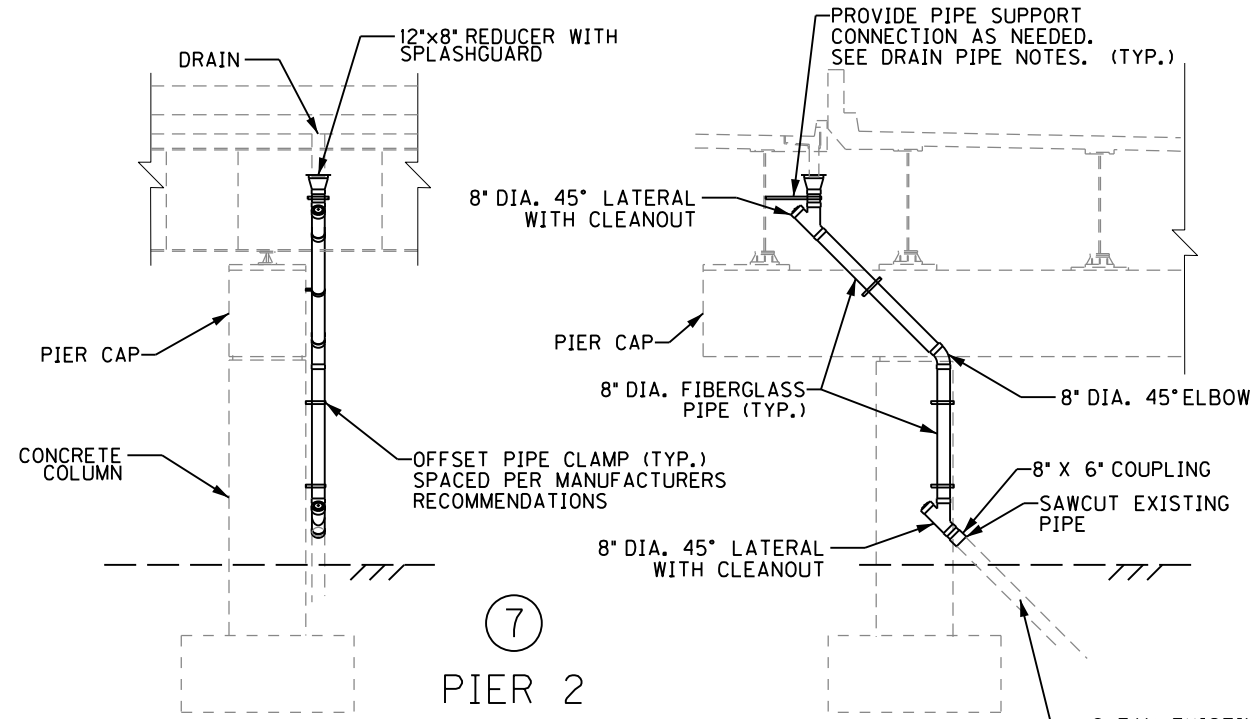
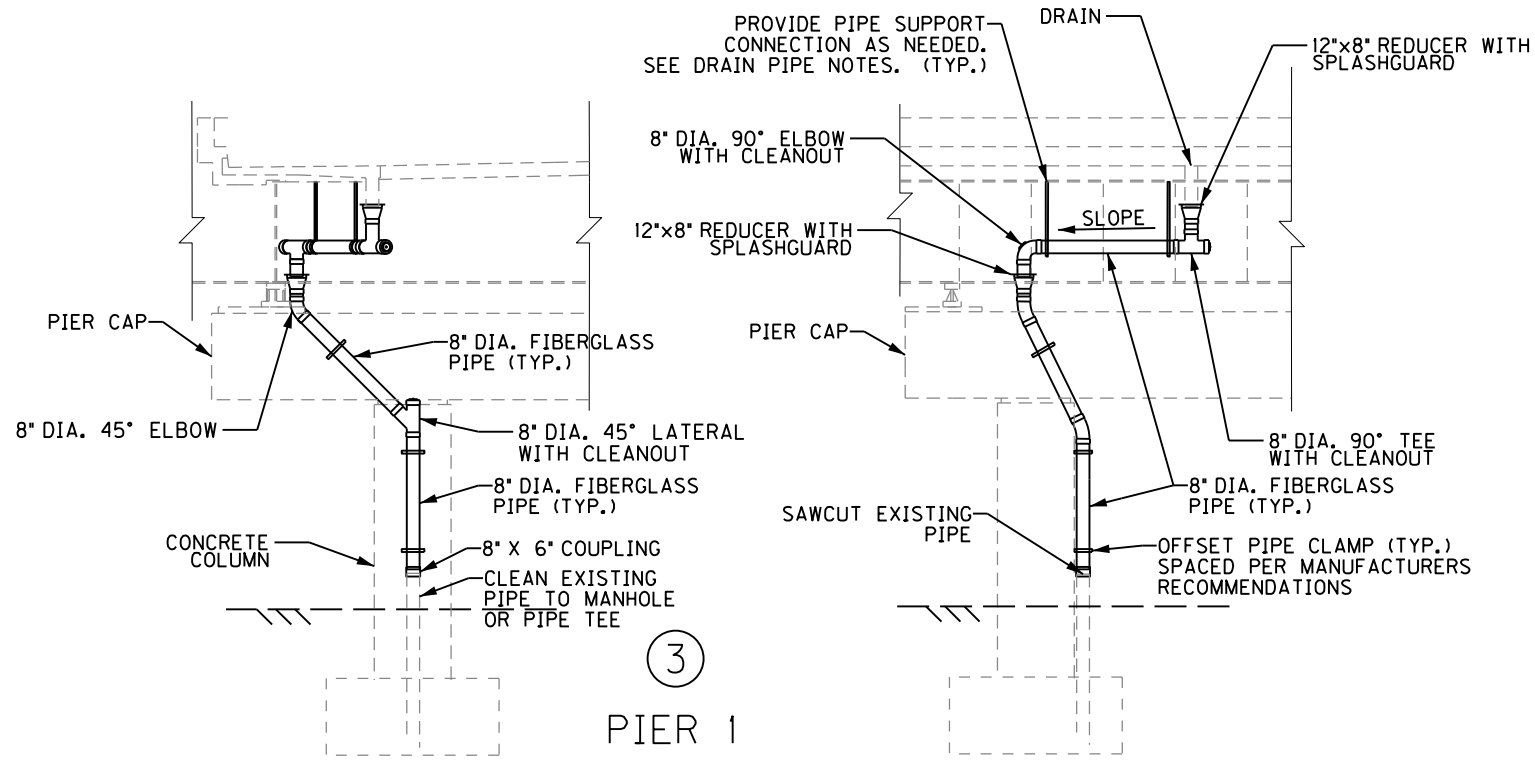
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| ITEM NUMBER |
| 5-10016     |

FILE NAME:  
DETAIL SHEET - RAMP.DGN

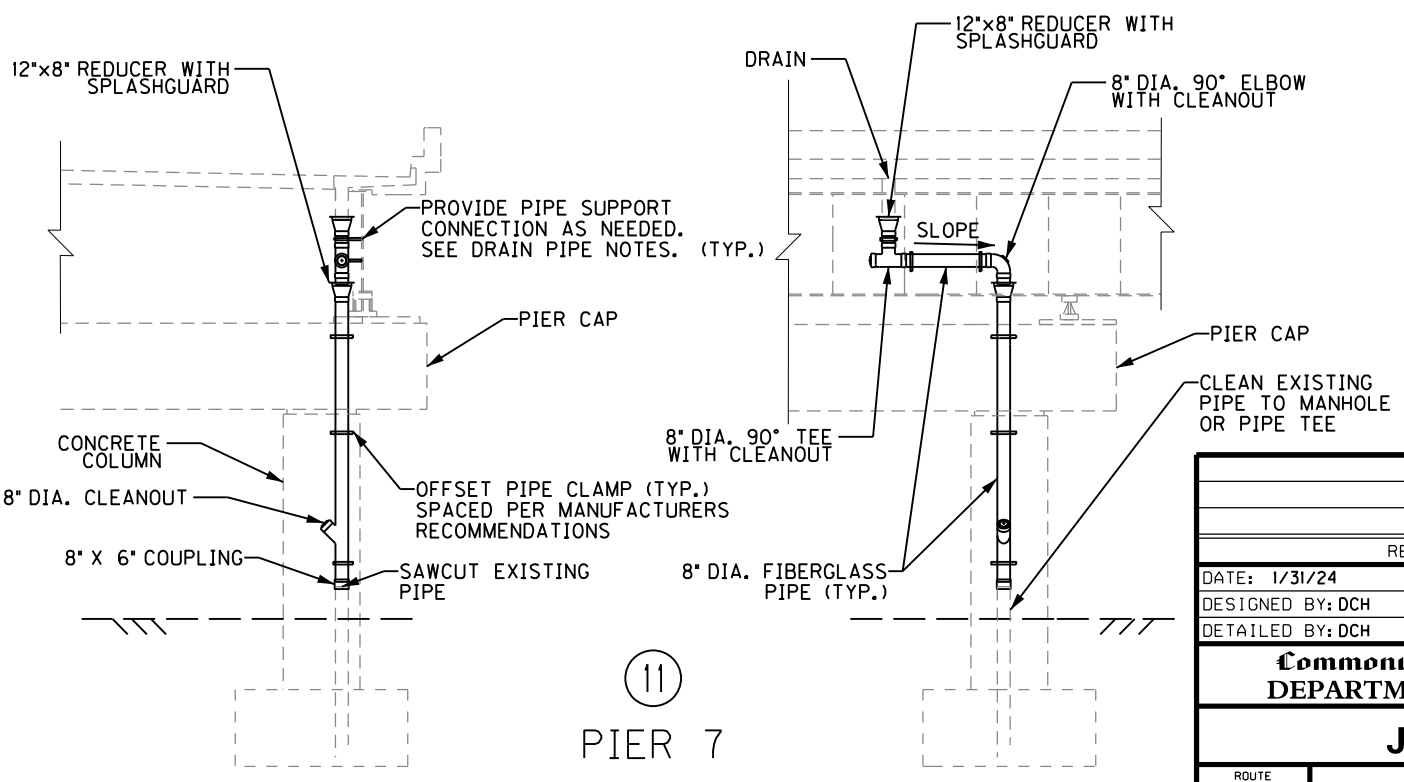
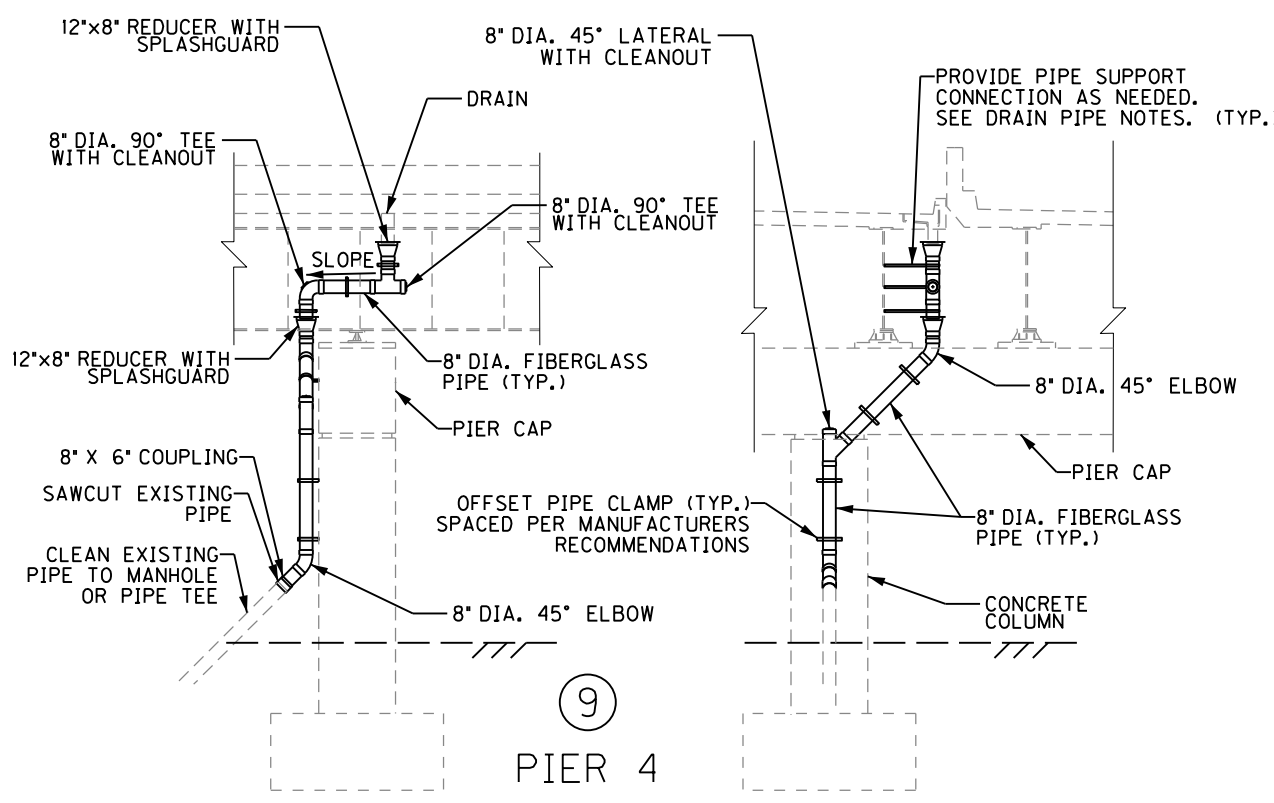
USER: David.Hoydon  
DATE PLOTTED: July 16, 2020

penRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020

I-64 WESTBOUND



NOTE: EXISTING SIGNS THAT ARE ATTACHED TO THE EXISTING PIPING AT LOCATION #3 SHALL BE RELOCATED AS DIRECTED BY ENGINEER. SIGNS CAN BE ATTACHED TO NEW PIPE BUT SHALL BE ATTACHED SO THAT NO NEW PIPE IS PENETRATED WITH SCREW, ETC. COST TO RELOCATE SIGNS IS CONSIDERED INCIDENTAL.



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| DATE: 1/31/24   | CHECKED BY                                |                      |
| DESIGNED BY: DCH  | PDO                                       |                      |
| DETAILED BY: DCH  | PDO                                       |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |   |                      |
| COUNTY<br>JEFFERSON   |   |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NOS. 056B00281N AND 282N |                      |
| 281 AND 282 DRAINAGE DETAILS-3  |   |                      |
| PREPARED BY   |   | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |   | D21                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>mbakerintl.com |   | DRAWING NO.<br>28870 |

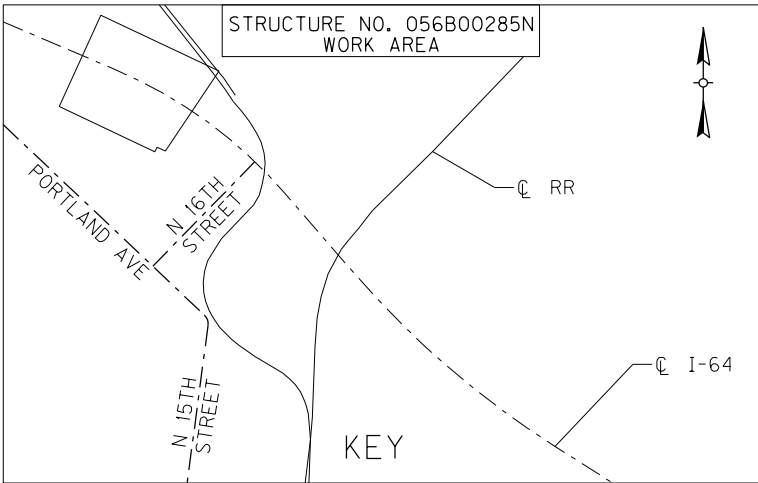
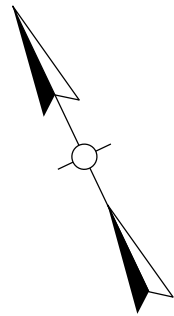
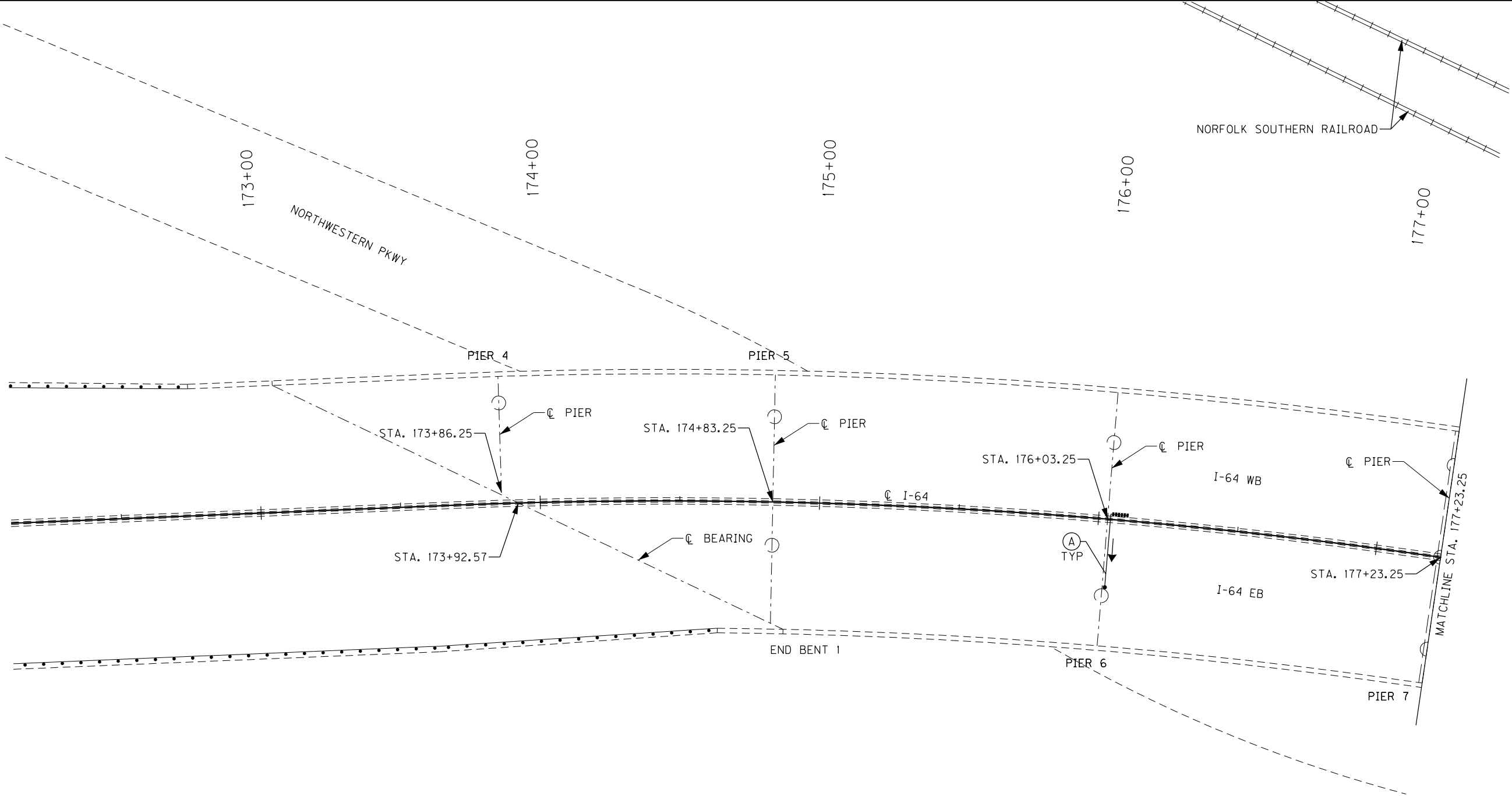
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| ITEM NUMBER |
| 5-10016     |

penRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020  
USER: David-Hoydon  
DATE PLOTTED: July 16, 2020  
FILE NAME: DETAIL-SHEET-WB.DGN

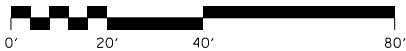
FILE NAME:  
SHT\_285\_Layout1.dgn

USER: Nicholas.Allen  
DATE PLOTTED: September 7, 2005

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



| LABEL | DIAMETER | MIN. SLOPE | LABEL | DIAMETER | MIN. SLOPE |
|-------|----------|------------|-------|----------|------------|
| A     | 8"       | 0.60%      | P     | 10"      | 0.40%      |
| B     | 8"       | 0.80%      | Q     | 10"      | 0.60%      |
| C     | 8"       | 1.00%      | R     | 10"      | 0.80%      |
| D     | 8"       | 1.20%      | S     | 10"      | 1.00%      |
| E     | 8"       | 1.40%      | T     | 10"      | 1.20%      |
| F     | 8"       | 1.60%      | U     | 10"      | 1.40%      |
| H     | 8"       | 1.80%      | V     | 10"      | 1.60%      |
| I     | 8"       | 2.00%      | W     | 10"      | 1.80%      |
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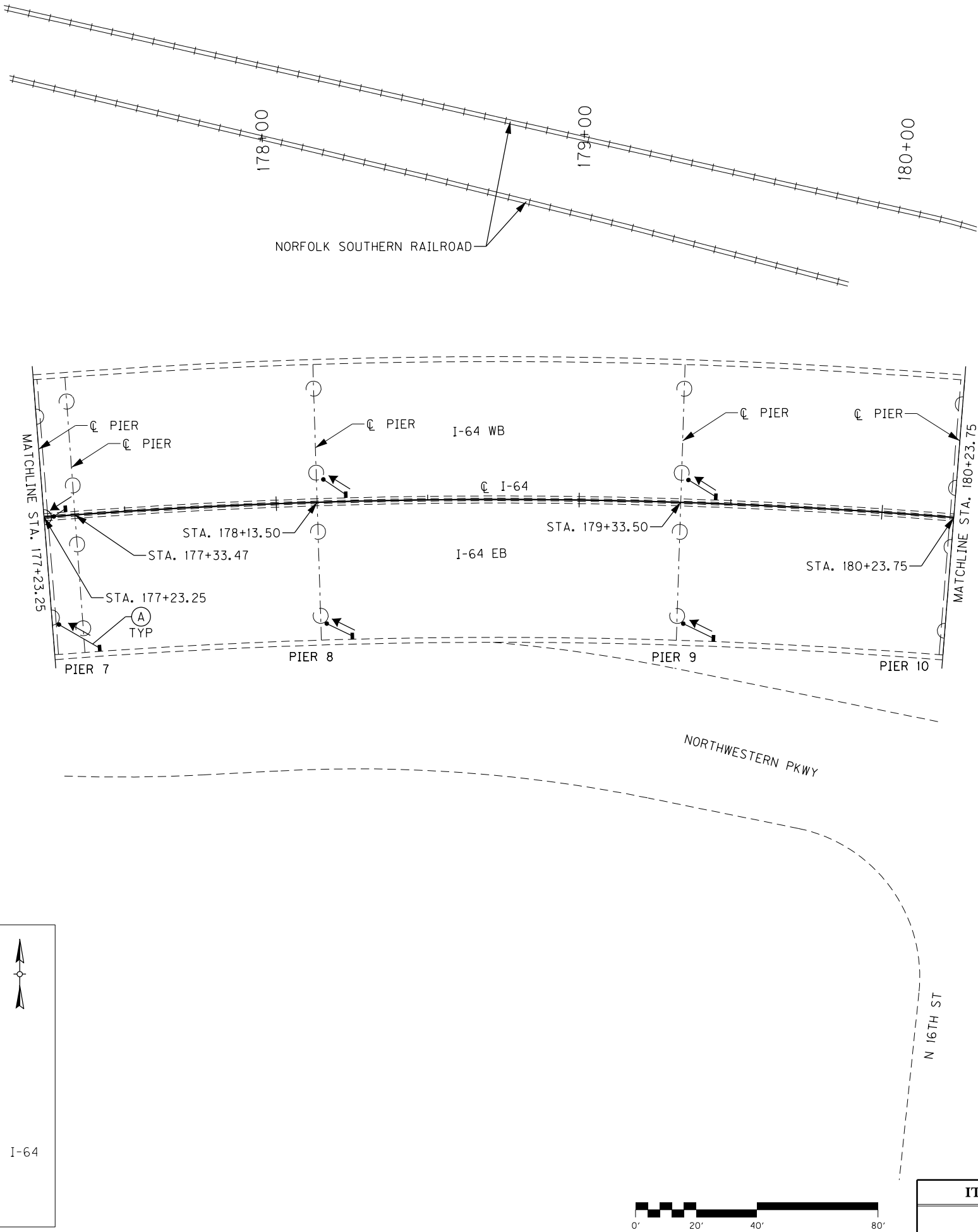
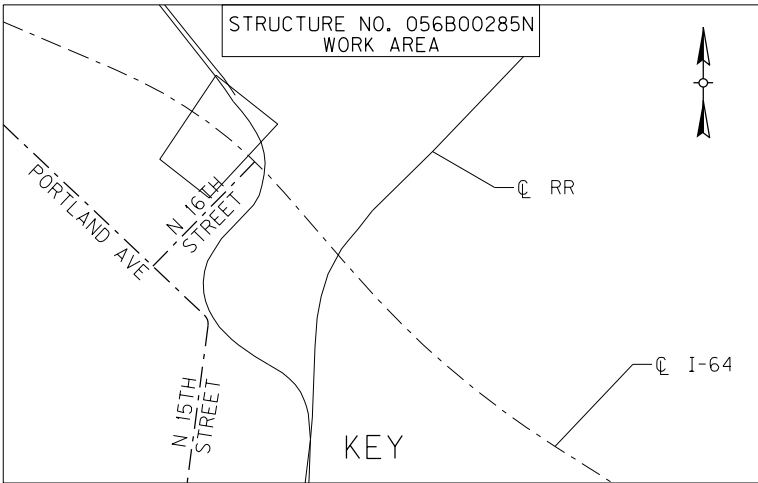
| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                            |                      |
| DATE:   |  | CHECKED BY                      |                      |
| DESIGNED BY: NGA  |  | PDO                             |                      |
| DETAILED BY: NGA  |  | PDO                             |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |                      |
| COUNTY<br>JEFFERSON   |  |                                 |                      |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00285N |                      |
| 285 DRAINAGE LAYOUT – 1   |  |                                 |                      |
| PREPARED BY   |  |                                 | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |  |                                 | D22                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |                                 | DRAWING NO.<br>28870 |

FILE NAME:  
SHT\_285\_Layout2.dgn

USER: Nicholas.Allen  
DATE PLOTTED: September 7, 2005

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



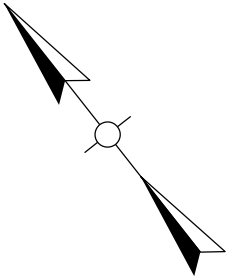
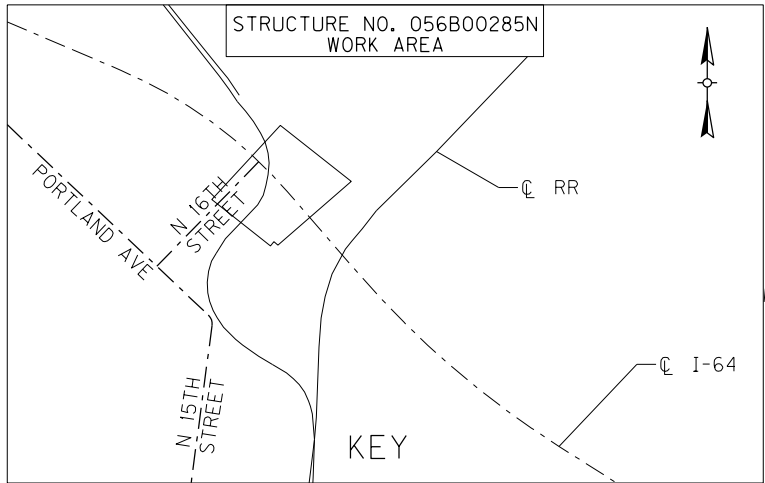
| ITEM NUMBER |  |
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| 5-10016     |  |

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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00285N |  |
| 285 DRAINAGE LAYOUT – 2   |                                 |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |                                 | SHEET NO.<br>D23<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

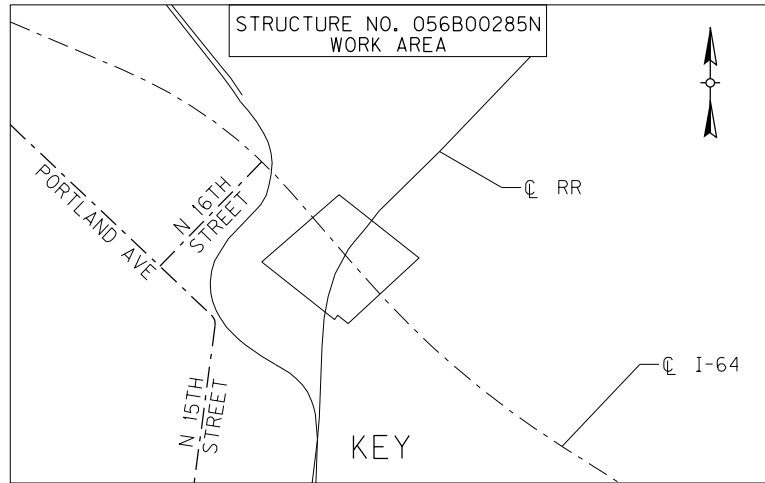
FILE NAME:  
SHT\_285\_Layout3.dgn

USER: Nicholas.Allen  
DATE PLOTTED: September 7, 2005

OpenRoads Designer v10.16.2.24E-SHEET NAME: S23464 020



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| REVISION  |                                 | DATE                        |
| DATE:   | CHECKED BY                      |                             |
| DESIGNED BY: NGA  | PDO                             |                             |
| DETAILED BY: NGA  | PDO                             |                             |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |                             |
| COUNTY<br>JEFFERSON   |                                 |                             |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00285N |                             |
| 285 DRAINAGE LAYOUT – 3   |                                 |                             |
| PREPARED BY   |                                 | SHEET NO.                   |
| <div>Michael Baker</div> INTERNATIONAL  |                                 | D24<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |                             |



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| REVISION  | DATE  |
| DATE:   | CHECKED BY  |
| DESIGNED BY: NGA  | PDO   |
| DETAILED BY: NGA  | PDO   |
| <b>Commonwealth of Kentucky</b><br><b>DEPARTMENT OF HIGHWAYS</b>  |   |
| COUNTY<br><b>JEFFERSON</b>  |   |
| ROUTE<br><b>I-64</b>  | CROSSING<br><b>STR. NO. 056B00285N</b>  |
| <b>285 DRAINAGE LAYOUT - 4</b>  |   |
| PREPARED BY   |   |
| <div style="background-color: black; color: white; padding: 5px; display: inline-block;"><b>Michael Baker</b></div><br><b>INTERNATIONAL</b> | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |
| SHEET NO.   |   |
| <b>D25</b><br>DRAWING NO.<br><b>28870</b>   |   |

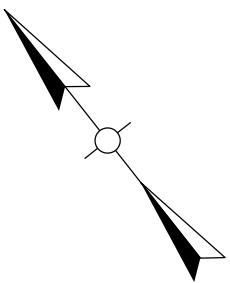
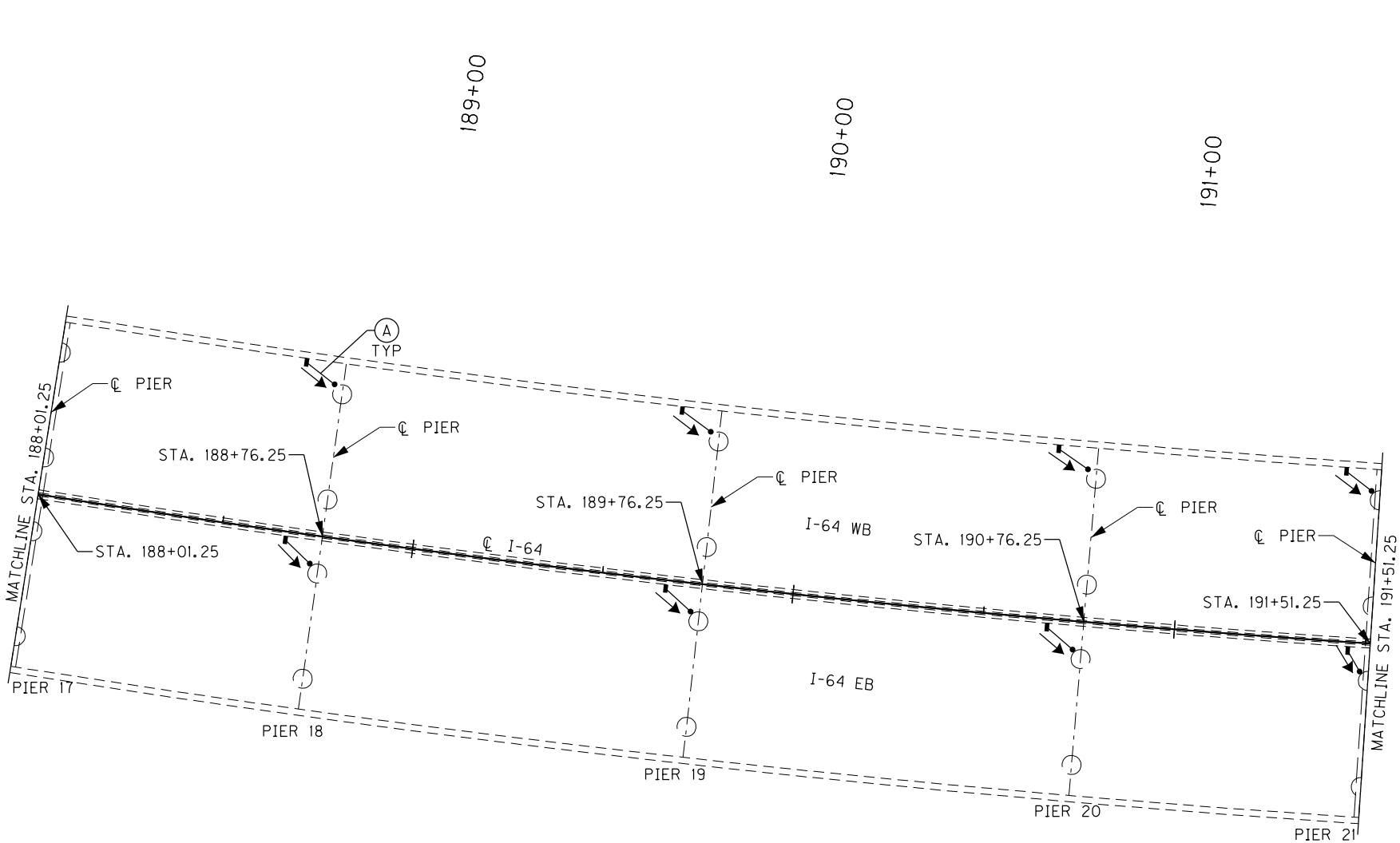
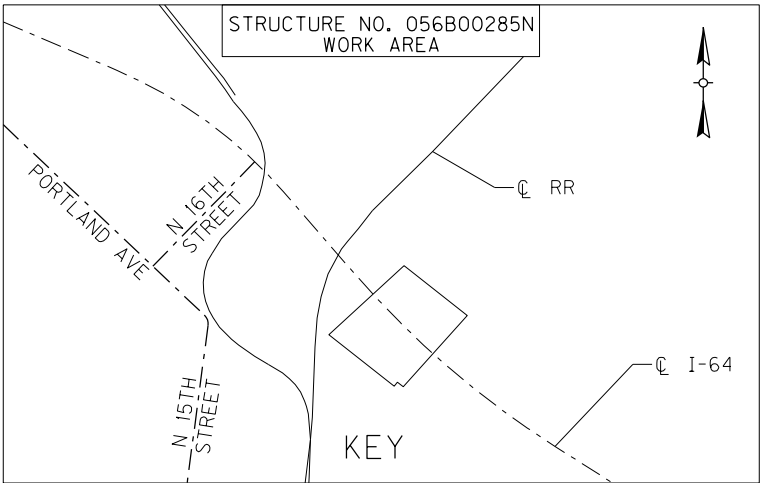


FILE NAME:  
SHT\_285/Layout5.dgn

USER: Nicholas.Allen  
DATE PLOTTED:

DESIGNER: Nicholas.Allen  
E-SHEET NAME: S23464 020

OpenRoads Designer v10.13.2.2  
DATE PLOTTED:



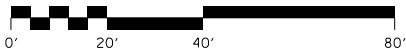
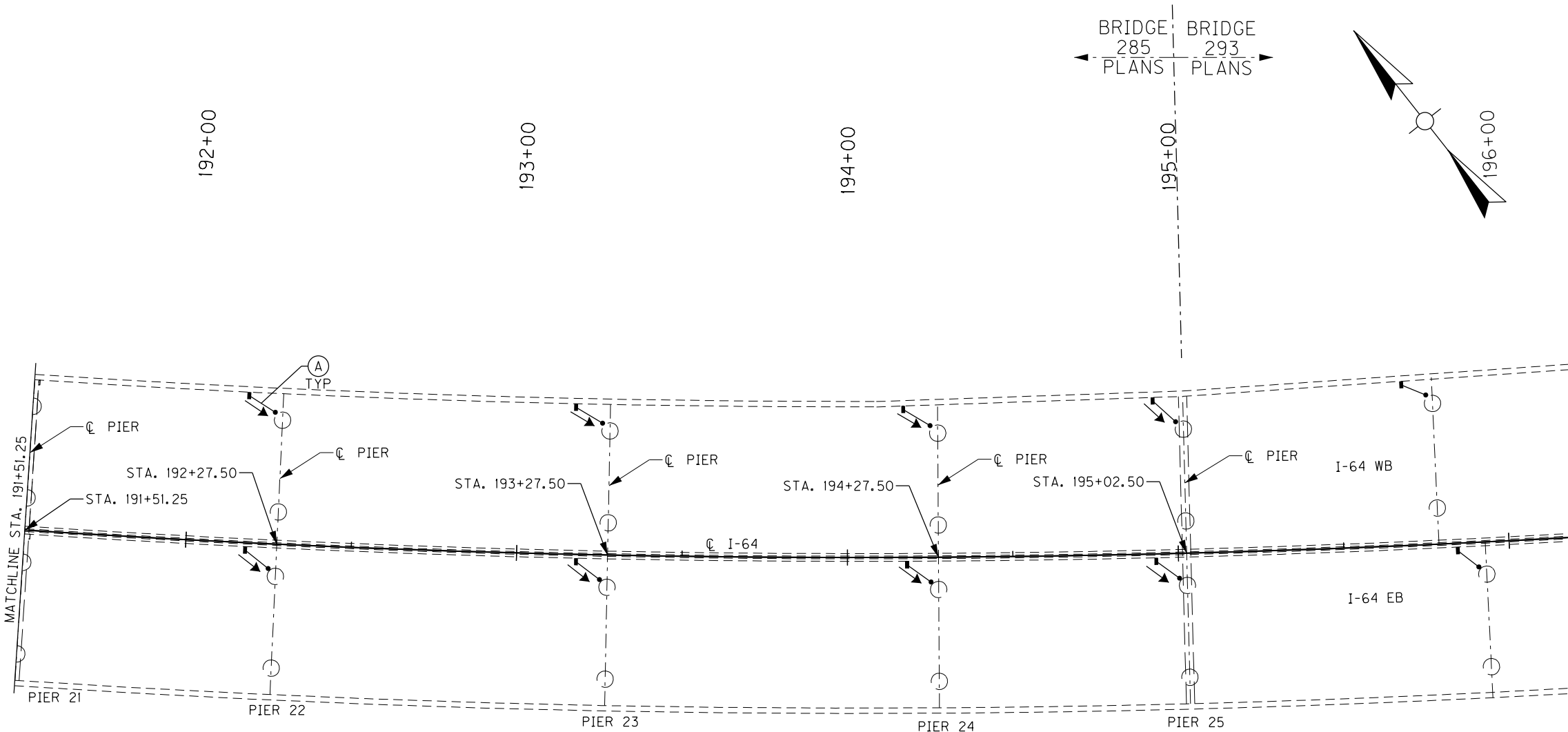
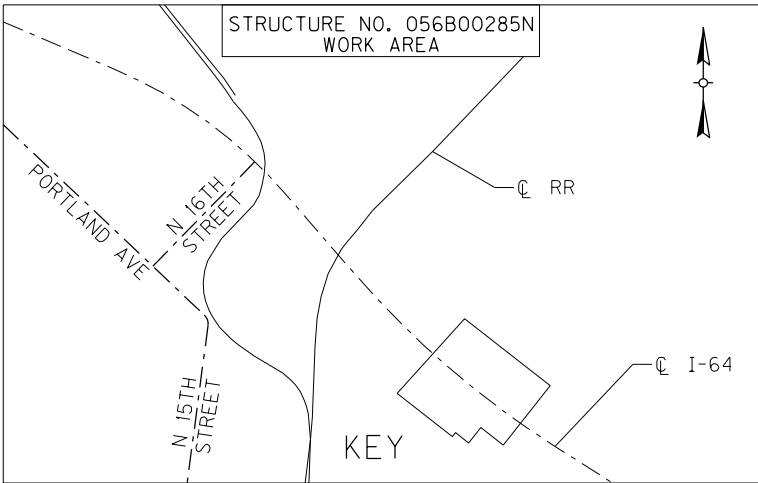
| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00285N |  |
| 285 DRAINAGE LAYOUT – 5   |                                 |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |                                 | SHEET NO.<br>D26<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

FILE NAME:  
SHT\_285\_Layout6.dgn

USER: Nicholas.Allen  
DATE PLOTTED:

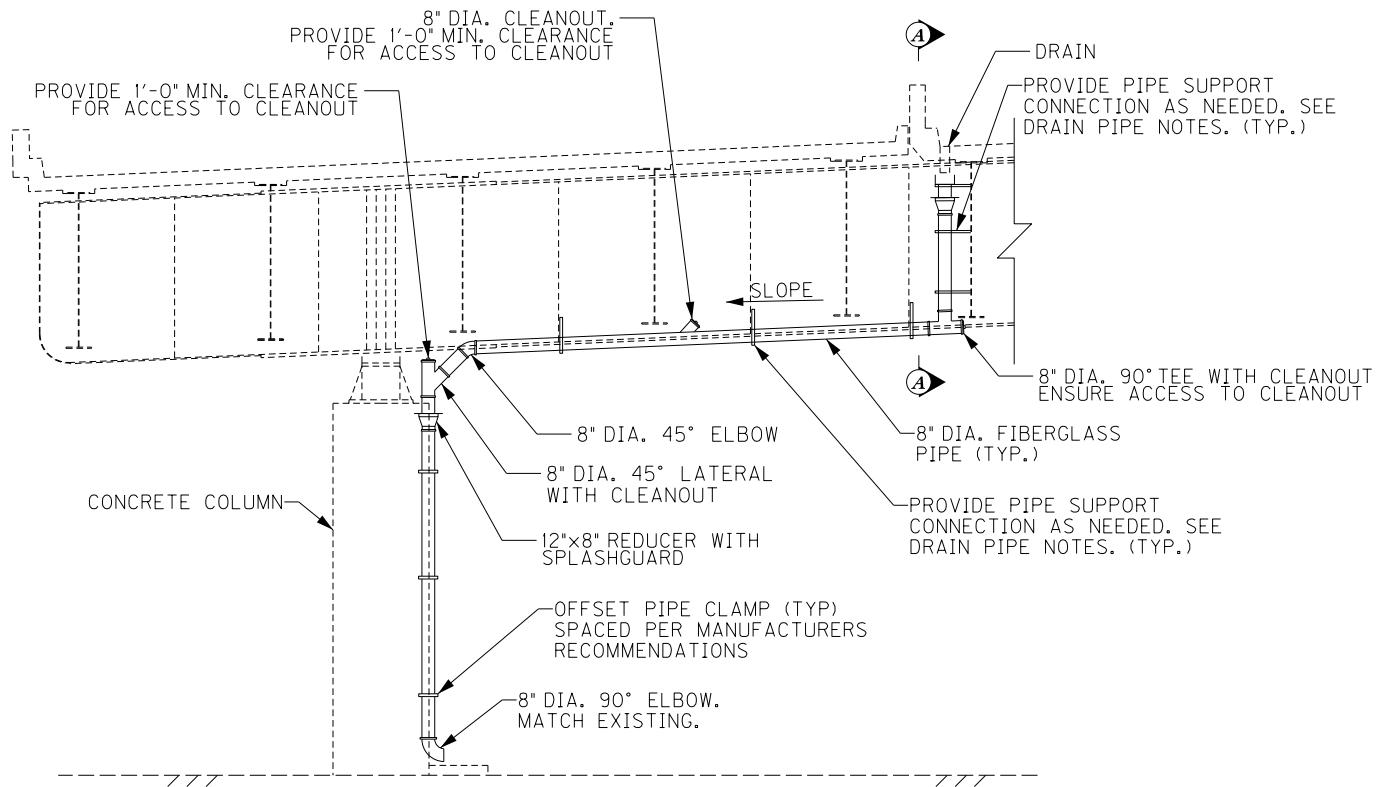
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



| ITEM NUMBER |
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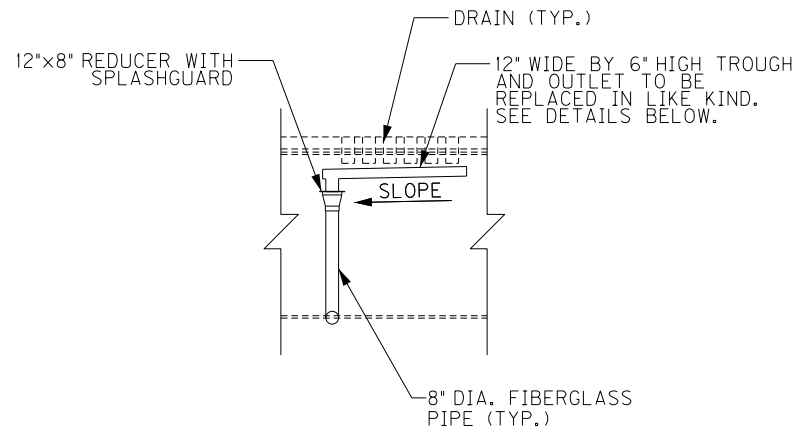
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| REVISION  |                                 | DATE                                     |
| DATE:   | CHECKED BY                      |  |
| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00285N |  |
| 285 DRAINAGE LAYOUT – 6   |                                 |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL                                     |                                 | SHEET NO.<br>D27<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020  
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020  
FILE NAME: DETAILS\_285.DGN



### DRAINAGE DETAIL – ELEVATION

TRANSVERSE SECTION  
PIER 6  
(LOOKING WEST)



### SECTION A-A

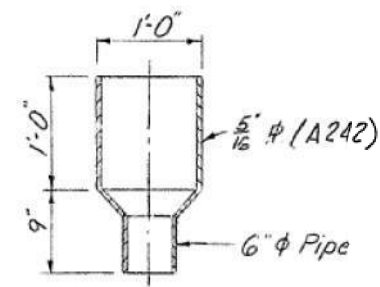
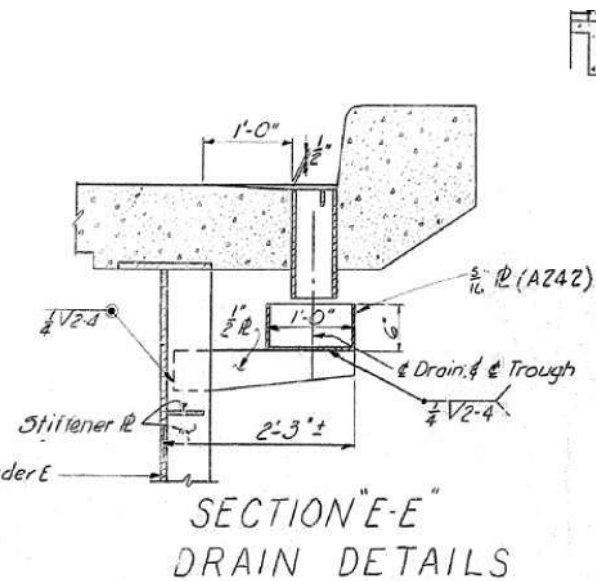
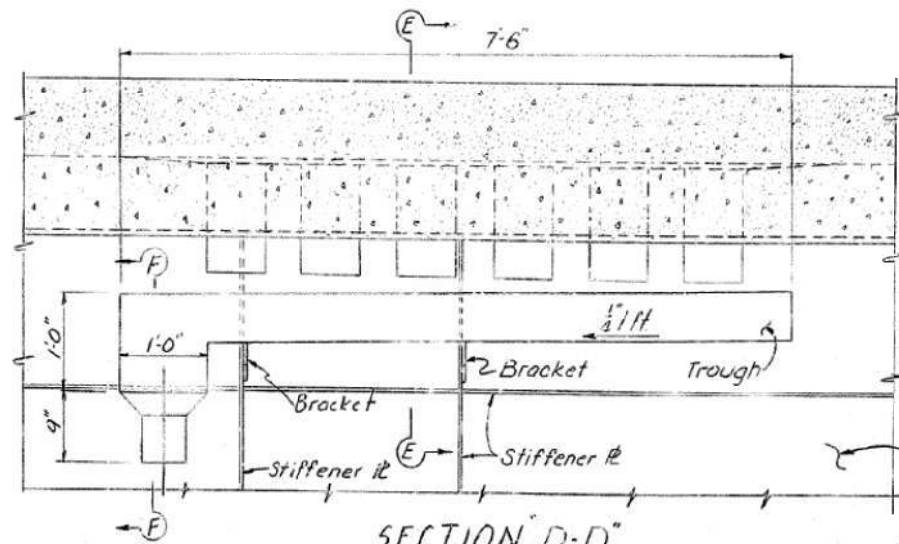
LONGITUDINAL SECTION  
PIER 6  
(LOOKING NORTH)

NOTE:

THE COST OF NEW TROUGH IS CONSIDERED INCIDENTAL.

FOR BRIDGE 285, REMOVE AND DISCARD EXISTING SPLASH BLOCK WHERE SPLASH POOL IS BEING INSTALLED. THE COST IS CONSIDERED INCIDENTAL.

WHERE NO SPLASH POOL IS PROPOSED, SPLASH BLOCK SHALL REMAIN.



### DRAINAGE TROUGH AND OUTLET DETAIL

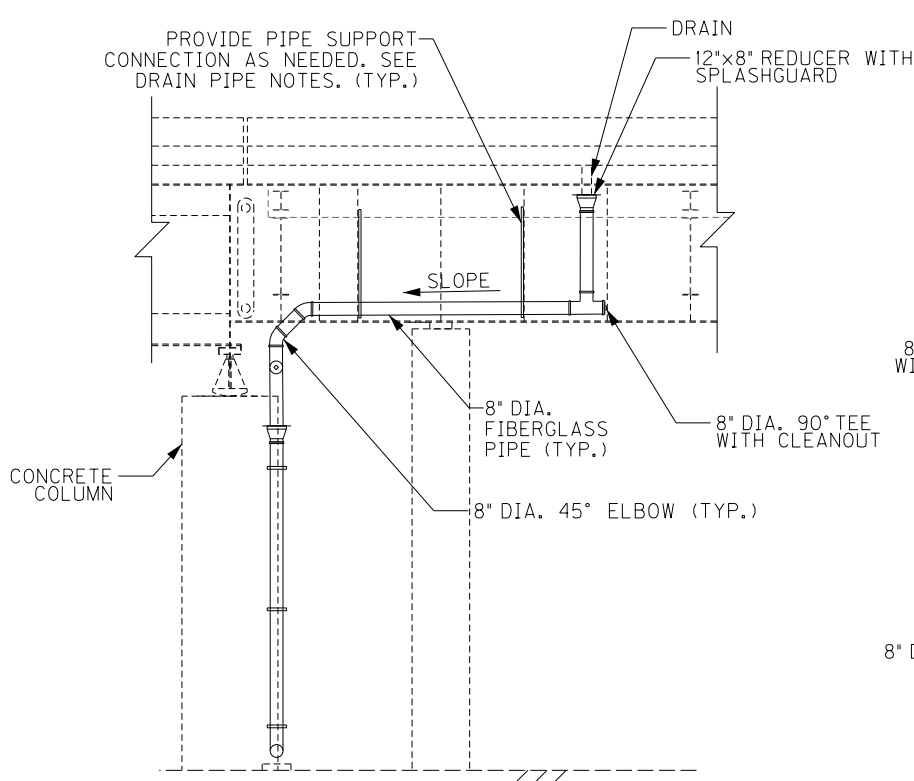
| ITEM NUMBER |  | PREPARED BY   |  | SHEET NO.            |  |
|-------------|--|---|--|----------------------|--|
| 5-10016     |  | Michael Baker International   |  | D28                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |  |

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| REVISION   |  | DATE  |  |
| DATE: FEB 2021                                     |  | CHECKED BY  |  |
| DESIGNED BY: PDO                                   |  | DMB   |  |
| DETAILED BY: MLO                                   |  | PDO   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>STR. NO. 056B00285N   |  |
| 285 DRAINAGE DETAILS – 1                           |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| <div>Michael Baker</div> INTERNATIONAL             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | D28<br>DRAWING NO.<br>28870   |  |

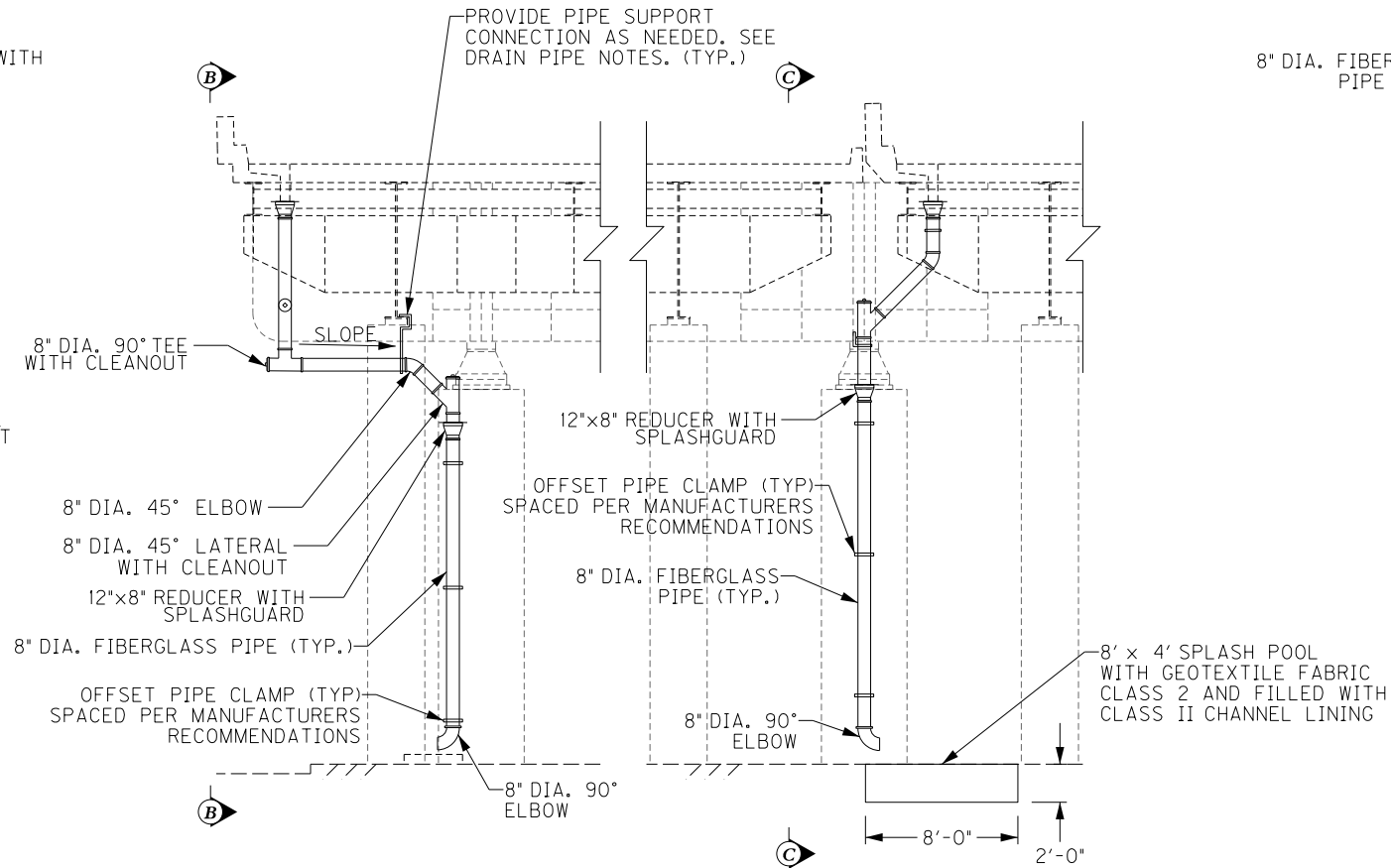
FILE NAME:  
DETAILS\_285.DGN

USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

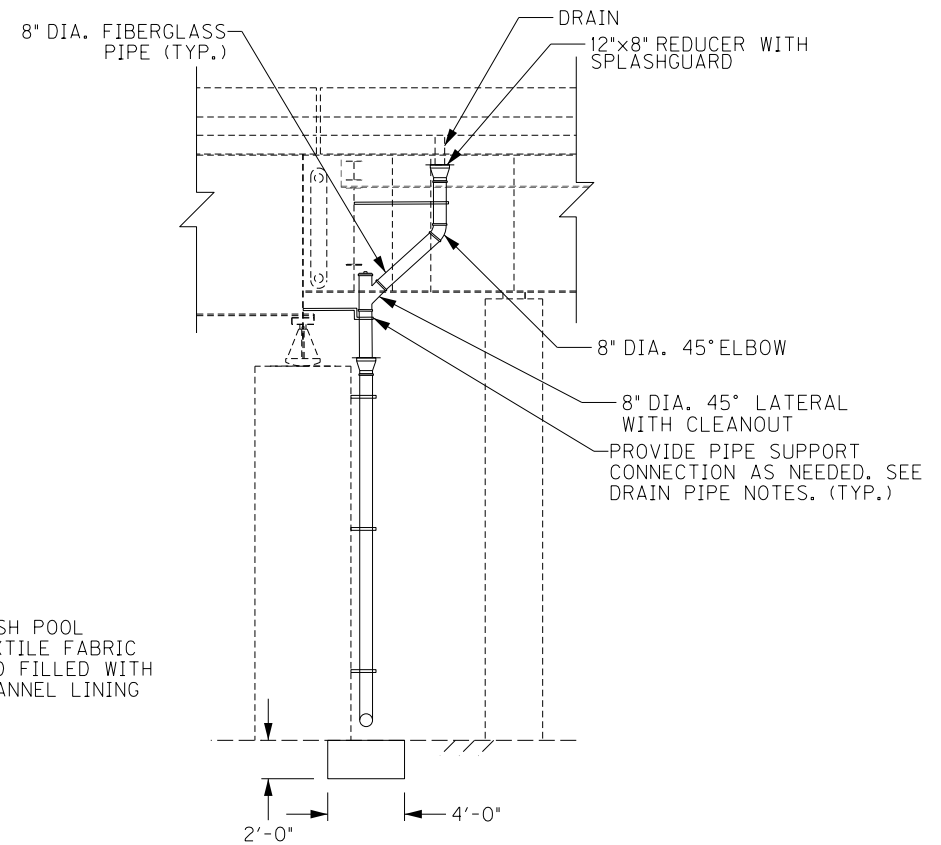
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



**SECTION B-B**  
LONGITUDINAL SECTION  
PIER 7 E.B.  
(LOOKING NORTH)



**DRAINAGE DETAIL - ELEVATION**  
TRANSVERSE SECTION  
PIER 7  
(LOOKING WEST)



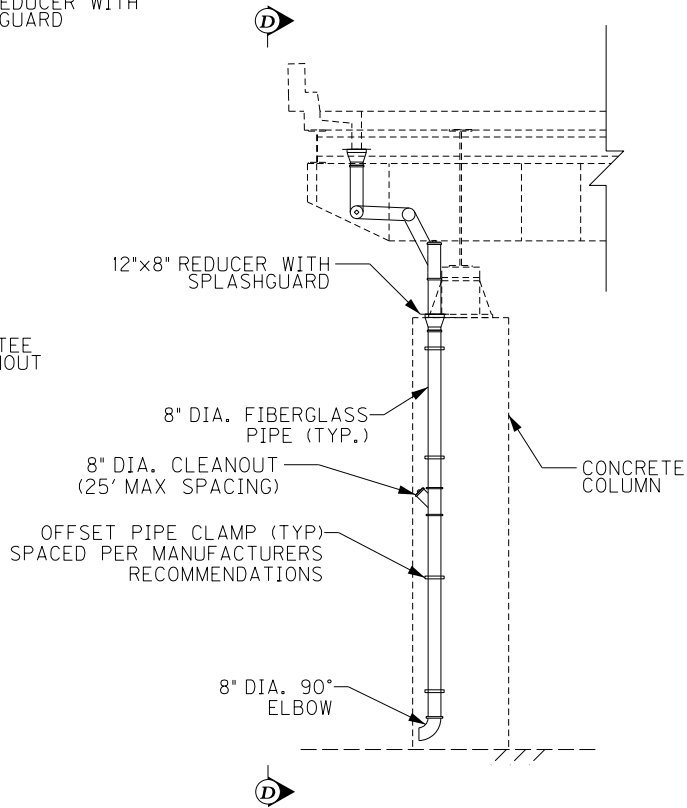
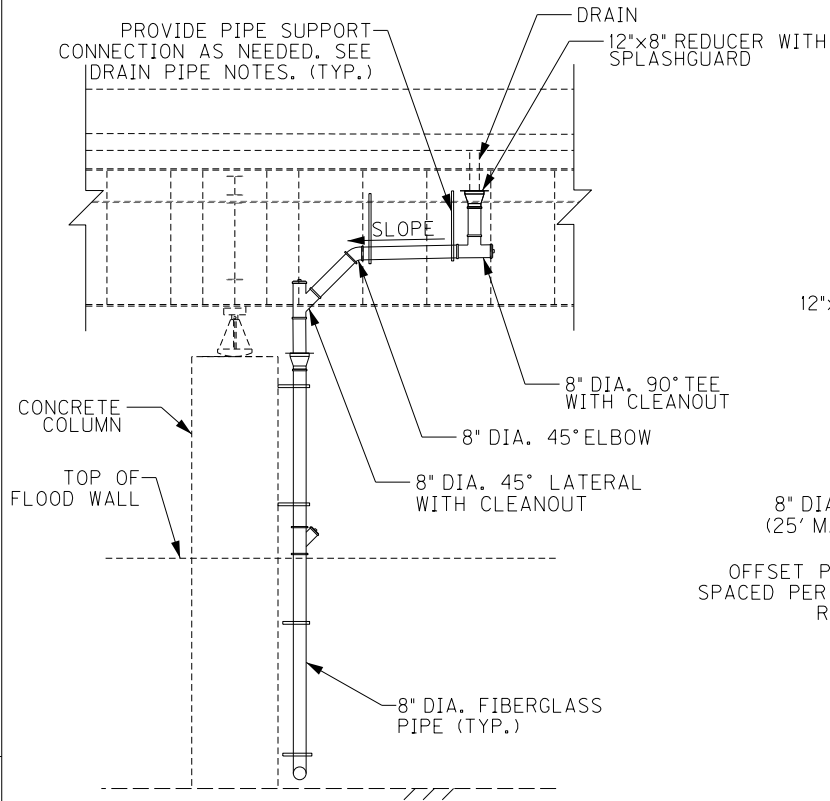
**SECTION C-C**  
LONGITUDINAL SECTION  
PIER 7 W.B.  
(LOOKING NORTH)

|             |  |   |  |  |  |
|-------------|--|---|--|--|--|
| ITEM NUMBER |  | PREPARED BY                                       |  | SHEET NO.  |  |
| 5-10016     |  | <div>Michael Baker</div> <div>INTERNATIONAL</div> |  | <div>1650 Lyndon Farm Court<br/>Louisville, KY 40223<br/>Phone: (502) 339-3557<br/>MBAKERINTL.COM</div> <div>D29</div> |  |
|             |  |   |  | DRAWING NO.<br>28870   |  |

FILE NAME:  
DETAILS.285.DGN

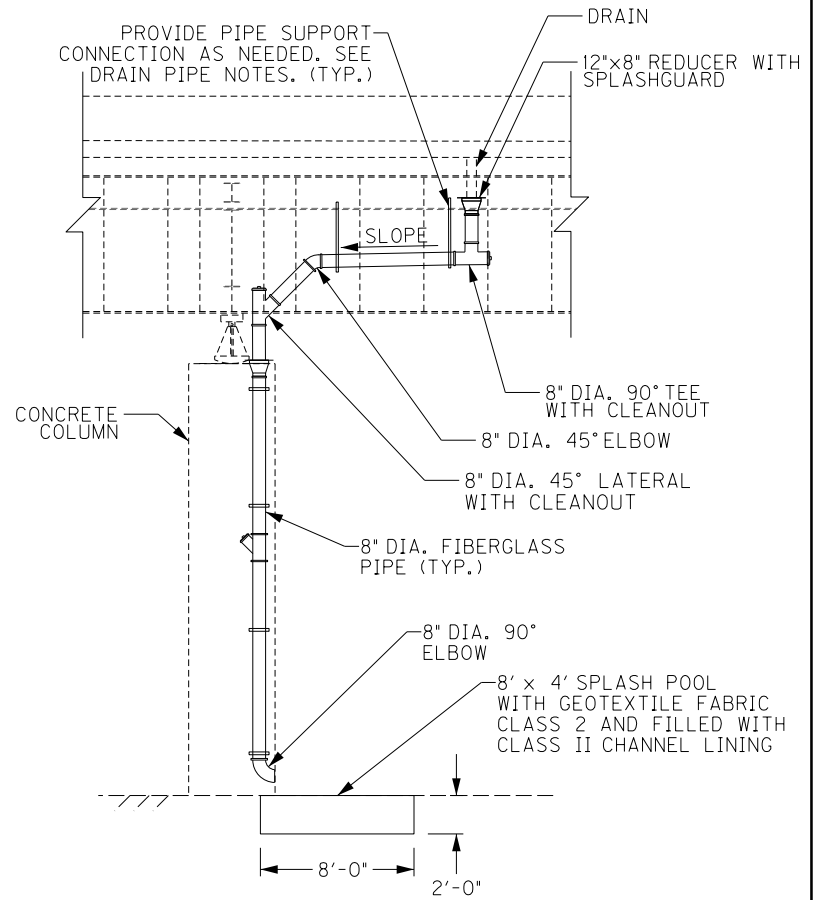
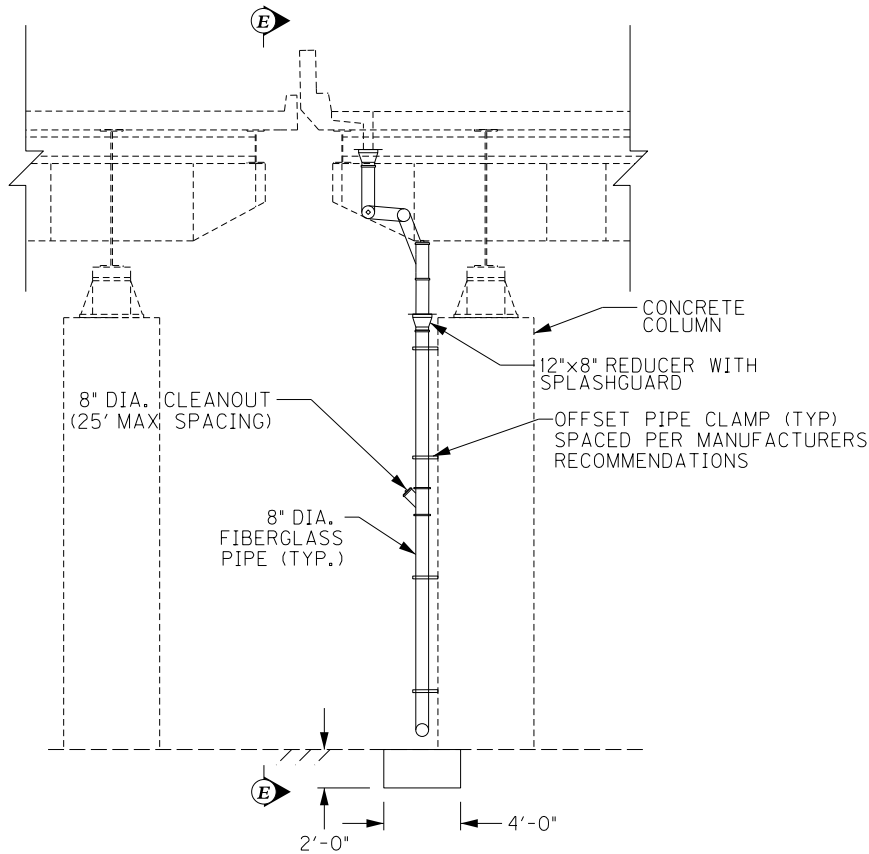
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



### DRAINAGE DETAIL - ELEVATION

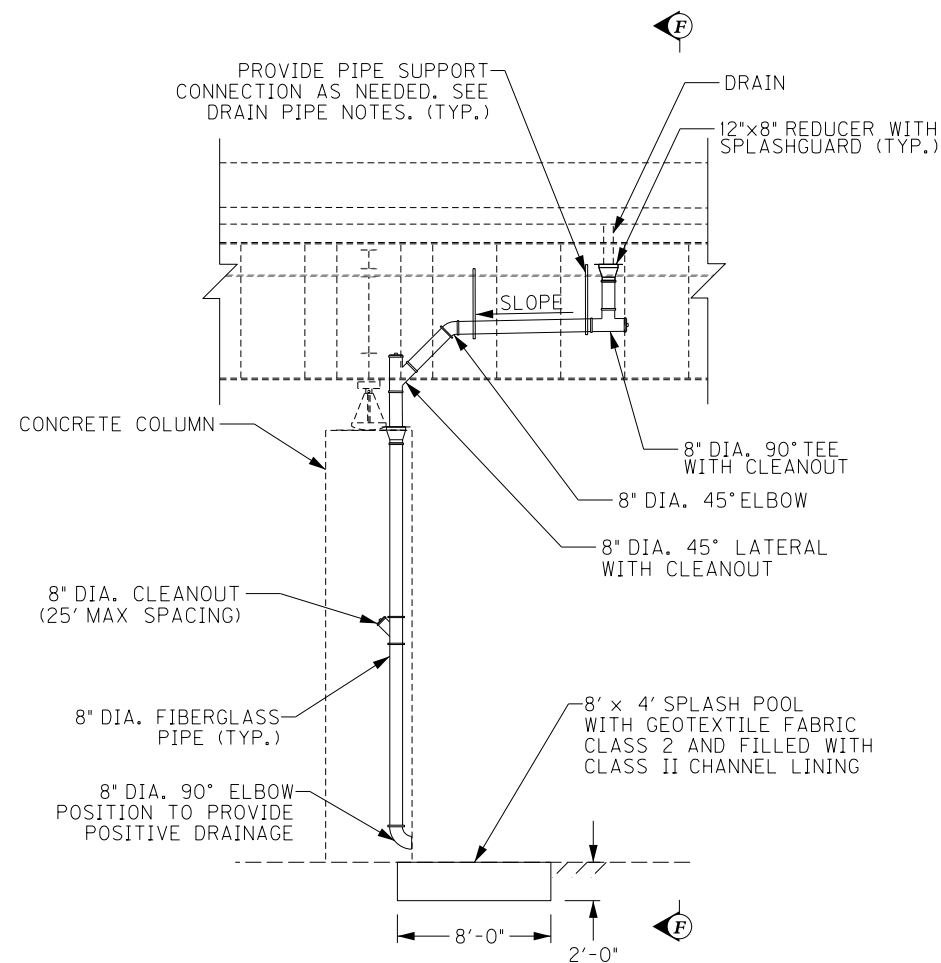
TRANSVERSE SECTION  
PIER 8  
(LOOKING WEST)



### SECTION E-E

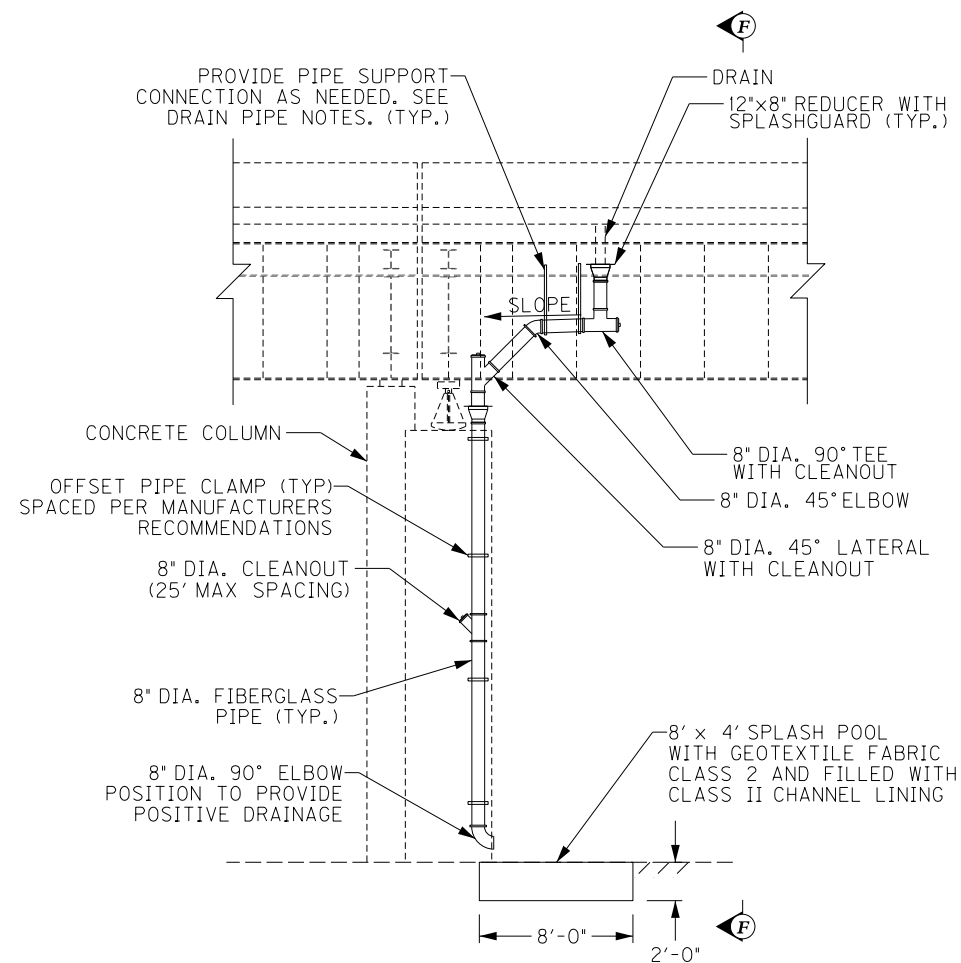
LONGITUDINAL SECTION  
PIER 8 W.B.  
(LOOKING NORTH)

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| REVISION   |   | DATE                 |
| DATE: FEB 2021                                     | CHECKED BY  |                      |
| DESIGNED BY: PDO                                   | DMB   |                      |
| DETAILED BY: MLO                                   | PDO   |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |   |                      |
| COUNTY<br>JEFFERSON                                |   |                      |
| ROUTE<br>I-64                                      | CROSSING<br>STR. NO. 056B00285N   |                      |
| 285 DRAINAGE DETAILS – 3                           |   |                      |
| ITEM NUMBER<br><br>5-10016                         | PREPARED BY<br><br>Michael Baker<br>INTERNATIONAL   | SHEET NO.<br><br>D30 |
|  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | DRAWING NO.<br>28870 |



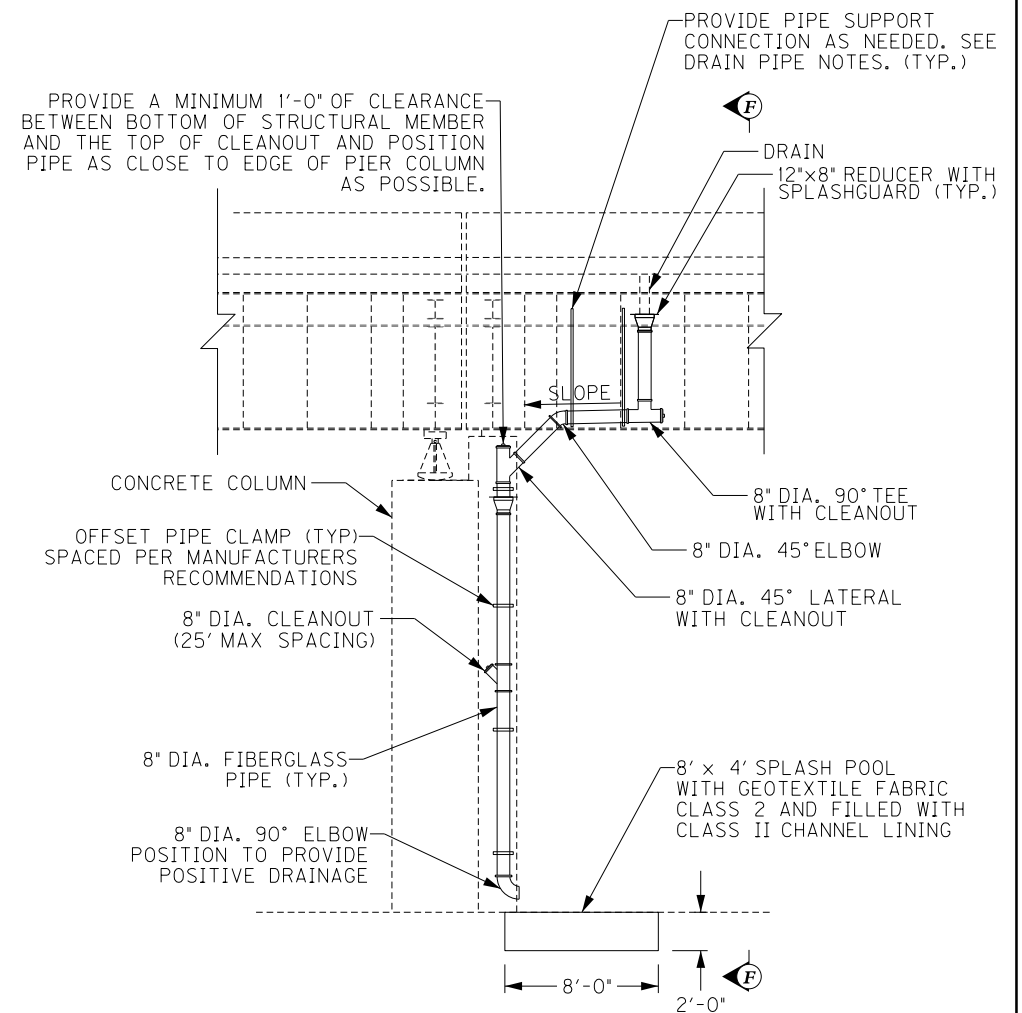
## DRAINAGE DETAIL – ELEVATION

LONGITUDINAL SECTION  
PIERS 9, 11-13 W.B. & E.B. (LOOKING NORTH)  
PIERS 18-20, 22-24 W.B. & E.B. (LOOKING SOUTH)



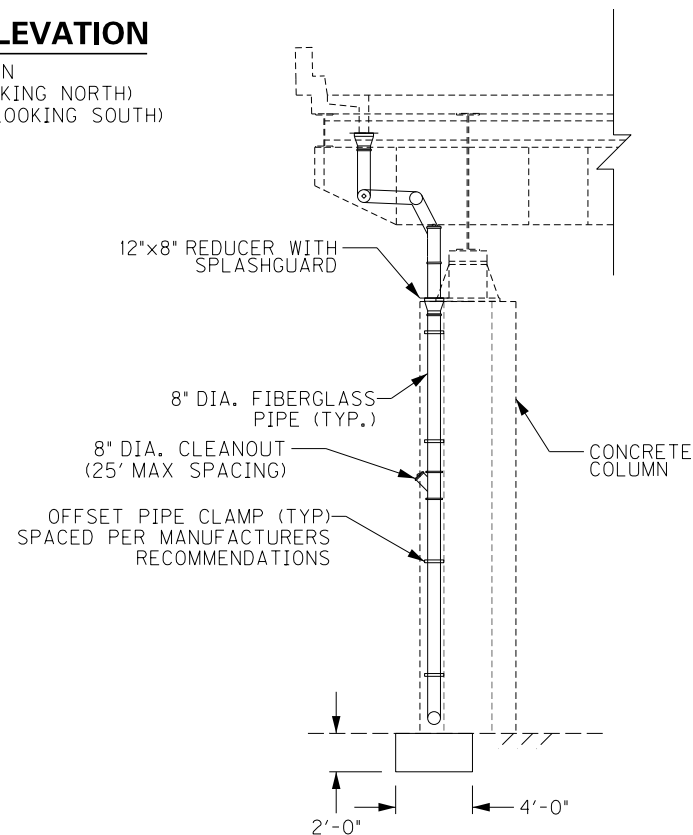
## DRAINAGE DETAIL – ELEVATION

LONGITUDINAL SECTION  
PIER 10 W.B. & E.B. (LOOKING NORTH)  
PIERS 21 & 25 W.B. & E.B. (LOOKING SOUTH)




### DRAINAGE DETAIL - ELEVATION

LONGITUDINAL SECTION  
PIER 14 W.B. & E.B. (LOOKING NORTH)  
PIER 17 W.B. & E.B. (LOOKING SOUTH)



**SECTION F-F**

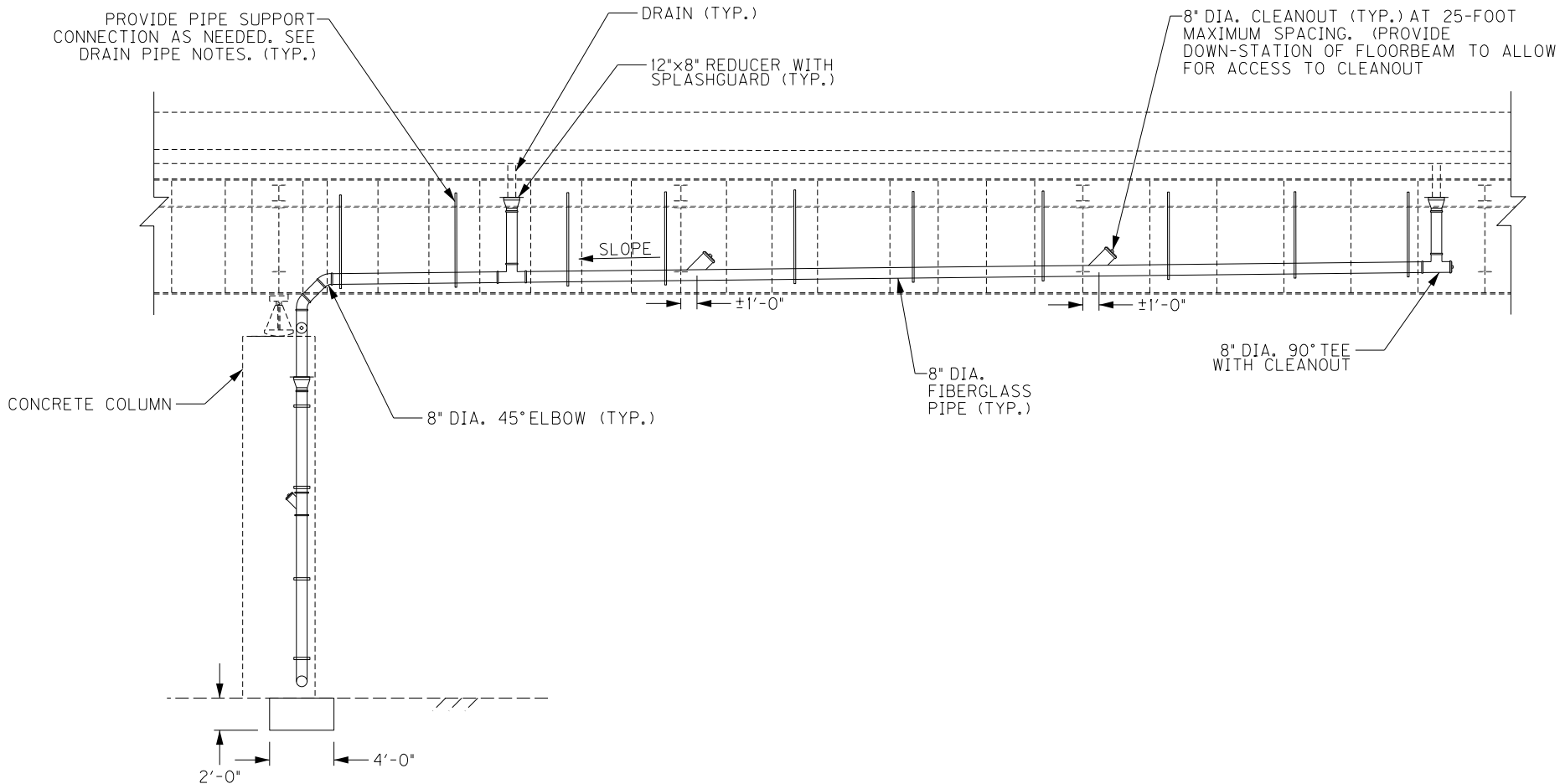
TRANSVERSE SECTION  
PIER 9-14 W.B. & E.B. (LOOKING WEST)  
PIERS 17-25 W.B. & E.B. (LOOKING EAST)

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| REVISION  | DATE  |
| DATE: FEB 2021  | CHECKED BY  |
| DESIGNED BY: PDO  | DMB   |
| DETAILED BY: MLO  | PDO   |
| <b>Commonwealth of Kentucky</b><br><b>DEPARTMENT OF HIGHWAYS</b>                      |   |
| COUNTY<br><b>JEFFERSON</b>  |   |
| ROUTE<br><b>I-64</b>  | CROSSING<br><b>STR. NO. 056B00285N</b>  |
| <b>285 DRAINAGE DETAILS - 4</b>   |   |
| PREPARED BY   |   |
|  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |
| SHEET NO.<br><b>D31</b><br>DRAWING NO.<br><b>28870</b>                                |   |

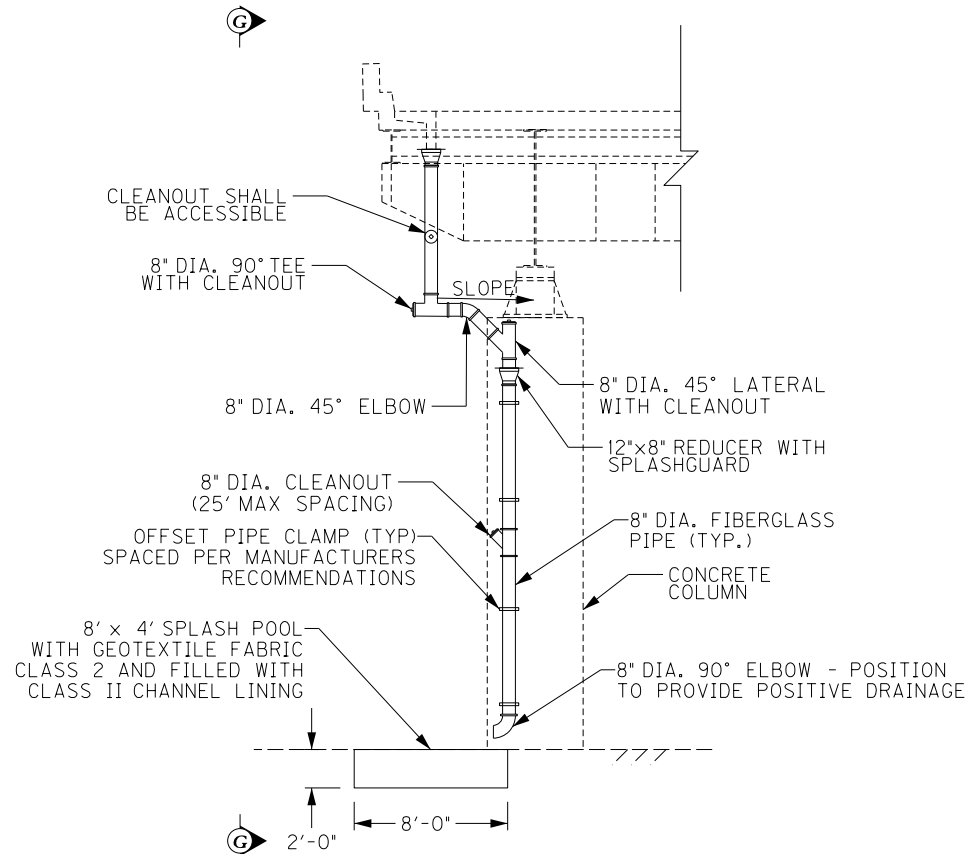
FILE NAME:  
DETAILS.285.DGN

USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



**SECTION G-G**  
LONGITUDINAL SECTION  
PIER 16  
(LOOKING SOUTH)

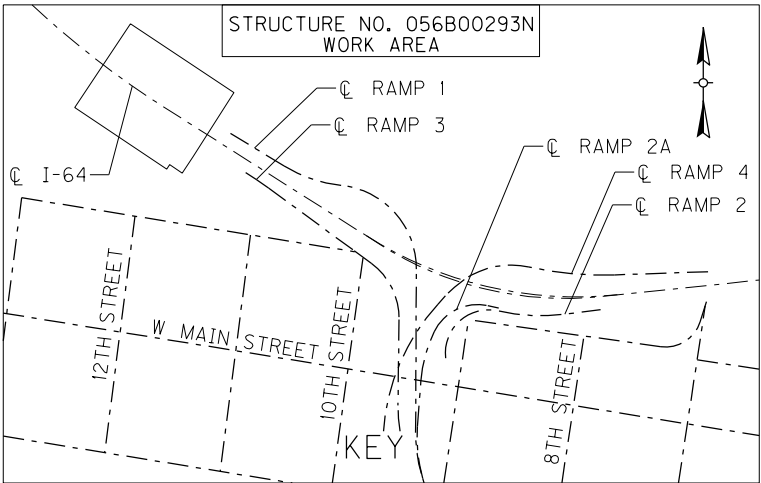
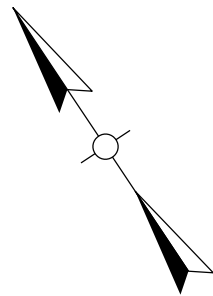
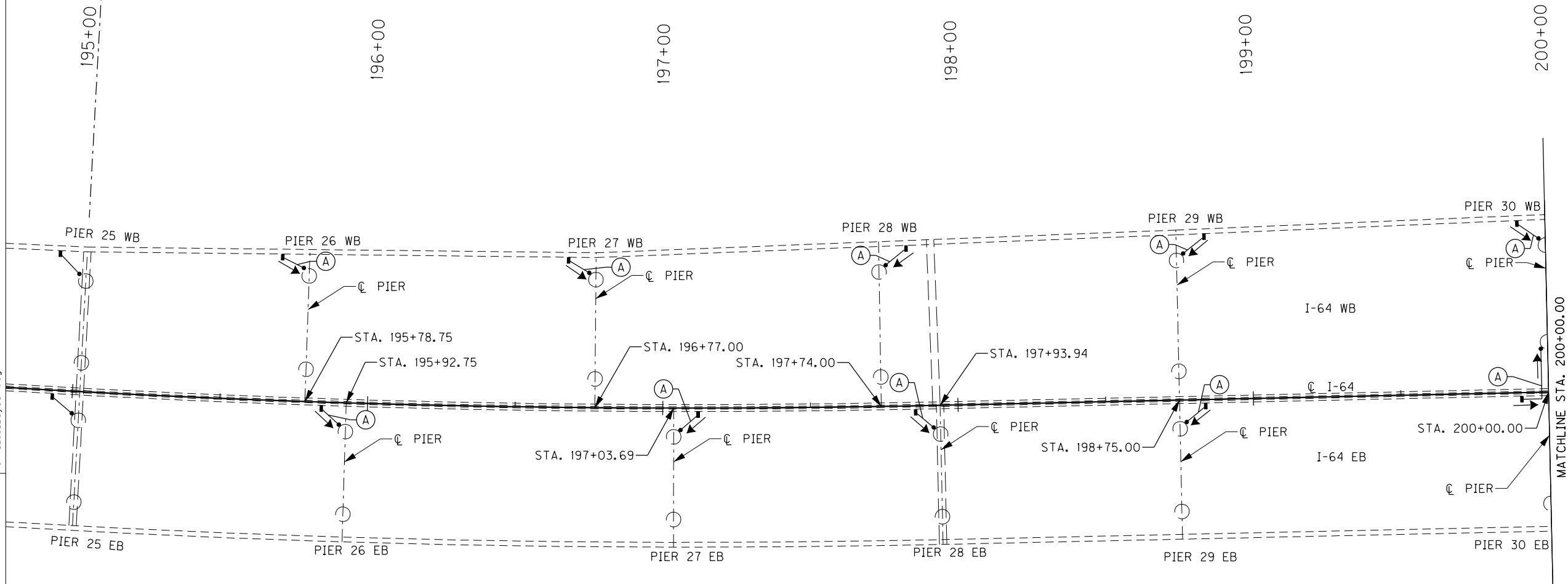


**DRAINAGE DETAIL - ELEVATION**  
TRANSVERSE SECTION  
PIER 16  
(LOOKING EAST)

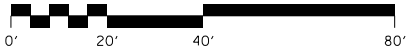
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| REVISION  |  | DATE                            |  |
| DATE: FEB 2021  |  | CHECKED BY                      |  |
| DESIGNED BY: PDO  |  | DMB                             |  |
| DETAILED BY: MLO  |  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |  |
| COUNTY<br>JEFFERSON   |  |                                 |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00285N |  |
| 285 DRAINAGE DETAILS – 5  |  |                                 |  |
| PREPARED BY   |  | SHEET NO.                       |  |
| <div>Michael Baker<br/>INTERNATIONAL</div>  |  | D32                             |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870            |  |

FILE NAME: SHT\_293\_Layout1.dgn  
USER: Nicholas.Allen  
DATE PLOTTED:  
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020

BRIDGE 285  
PLANS  
BRIDGE 293  
PLANS



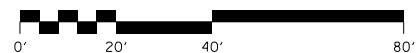
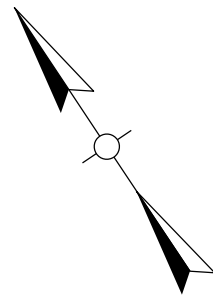
| LABEL | DIAMETER | MIN. SLOPE | LABEL | DIAMETER | MIN. SLOPE |
|-------|----------|------------|-------|----------|------------|
| A     | 8"       | 0.60%      | P     | 10"      | 0.40%      |
| B     | 8"       | 0.80%      | Q     | 10"      | 0.60%      |
| C     | 8"       | 1.00%      | R     | 10"      | 0.80%      |
| D     | 8"       | 1.20%      | S     | 10"      | 1.00%      |
| E     | 8"       | 1.40%      | T     | 10"      | 1.20%      |
| F     | 8"       | 1.60%      | U     | 10"      | 1.40%      |
| H     | 8"       | 1.80%      | V     | 10"      | 1.60%      |
| I     | 8"       | 2.00%      | W     | 10"      | 1.80%      |
|       |          |            |       |          |            |



| ITEM NUMBER |
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| 5-10016     |

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| REVISION  |  | DATE                                     |  |
| DATE:   |  | CHECKED BY                               |  |
| DESIGNED BY: NGA  |  | PDO                                      |  |
| DETAILED BY: NGA  |  | PDO                                      |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |  |  |
| COUNTY<br>JEFFERSON   |  |  |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00293N          |  |
| 293 DRAINAGE LAYOUT – 1   |  |  |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |  | SHEET NO.<br>D33<br>DRAWING NO.<br>28870 |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |  |  |



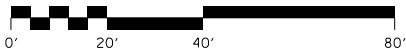
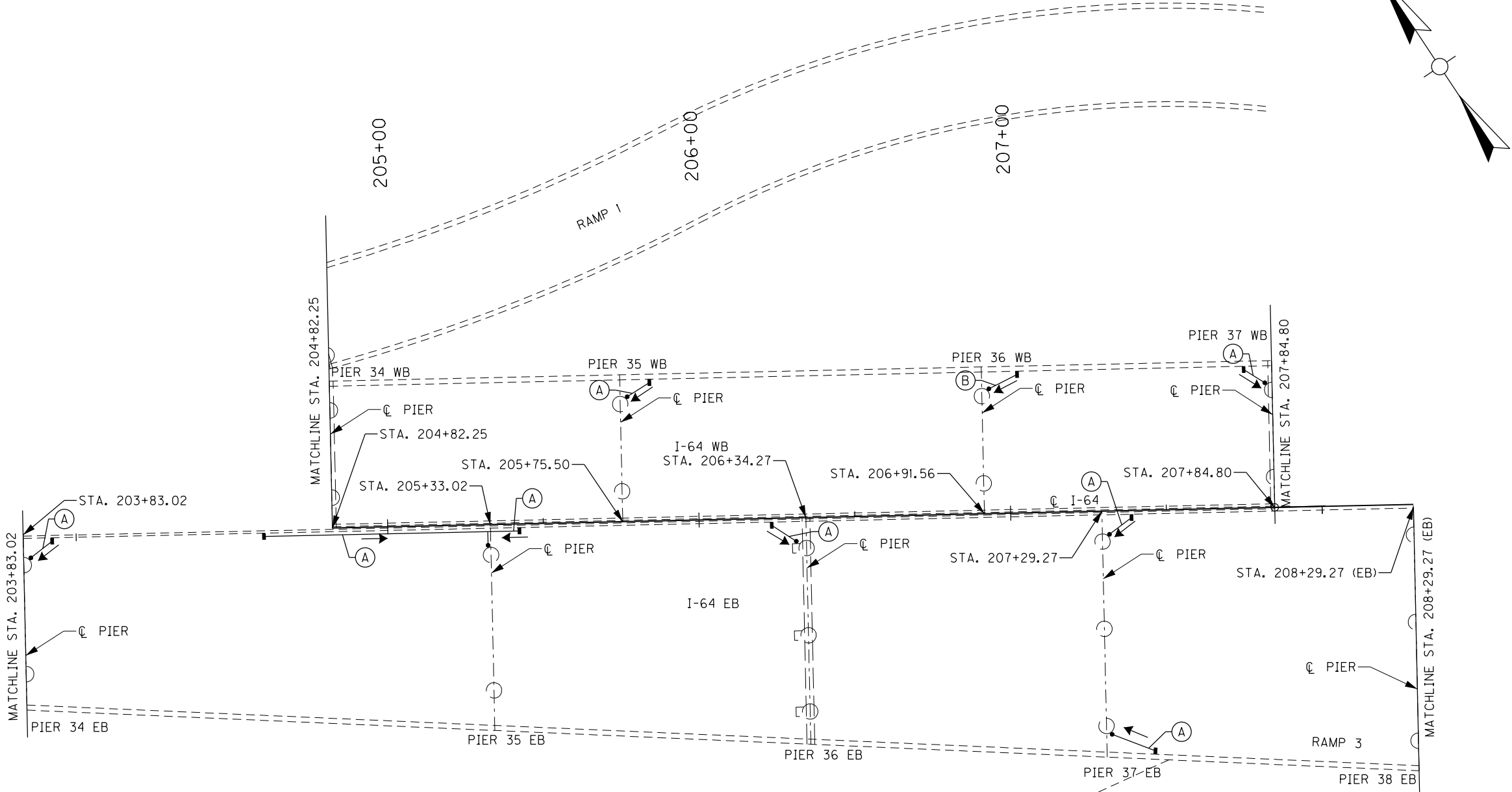
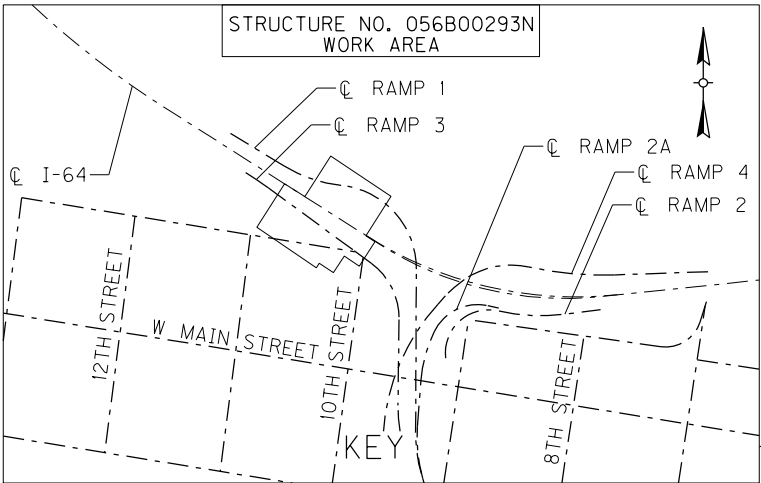


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|-------------|---|---|---|
| ITEM NUMBER |  | PREPARED BY   | SHEET NO.                                 |
|             |   | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM | <b>D34</b><br>DRAWING NO.<br><b>28870</b> |
| 5-10016     |   |   |   |

FILE NAME:  
SHT\_293\_Layout3.dgn

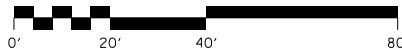
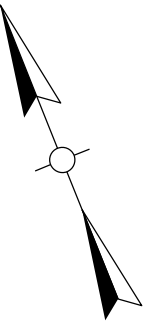
USER: Nicholas.Allen  
DATE PLOTTED:

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



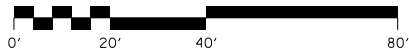
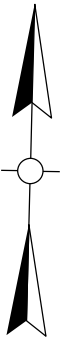
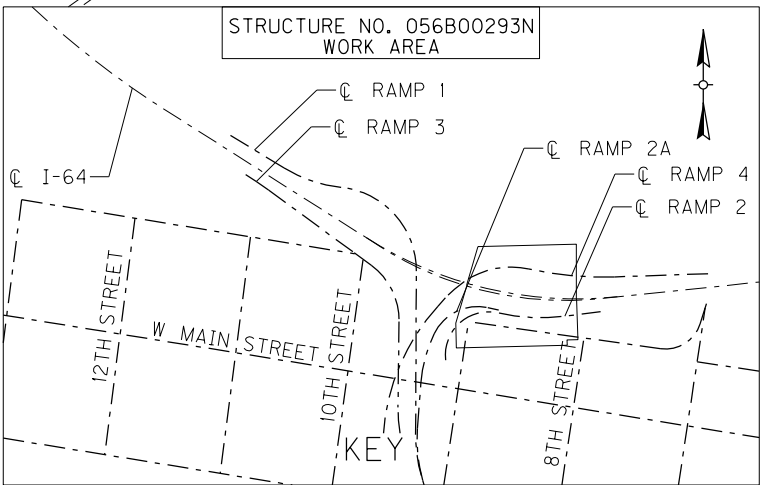
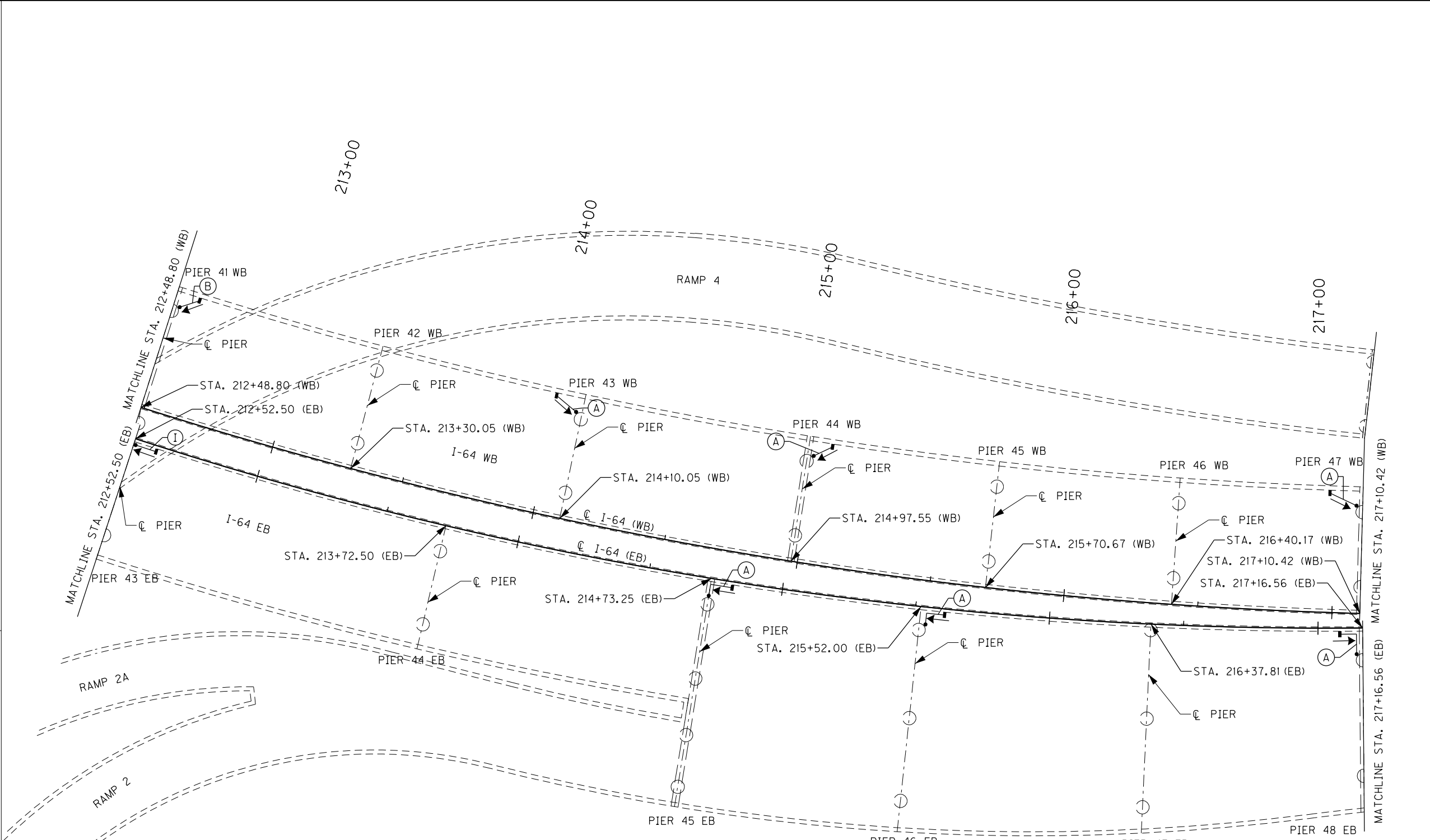
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|-------------|--|---|--|----------------------|--|
| 5-10016     |  | Michael Baker INTERNATIONAL   |  | D35                  |  |
|             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870 |  |

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| REVISION   |  | DATE                            |  |
| DATE:  |  | CHECKED BY                      |  |
| DESIGNED BY: NGA                                   |  | PDO                             |  |
| DETAILED BY: NGA                                   |  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |                                 |  |
| COUNTY<br>JEFFERSON                                |  |                                 |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE LAYOUT - 3                            |  |                                 |  |



| ITEM NUMBER |
|-------------|
| 5-10016     |

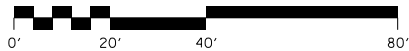
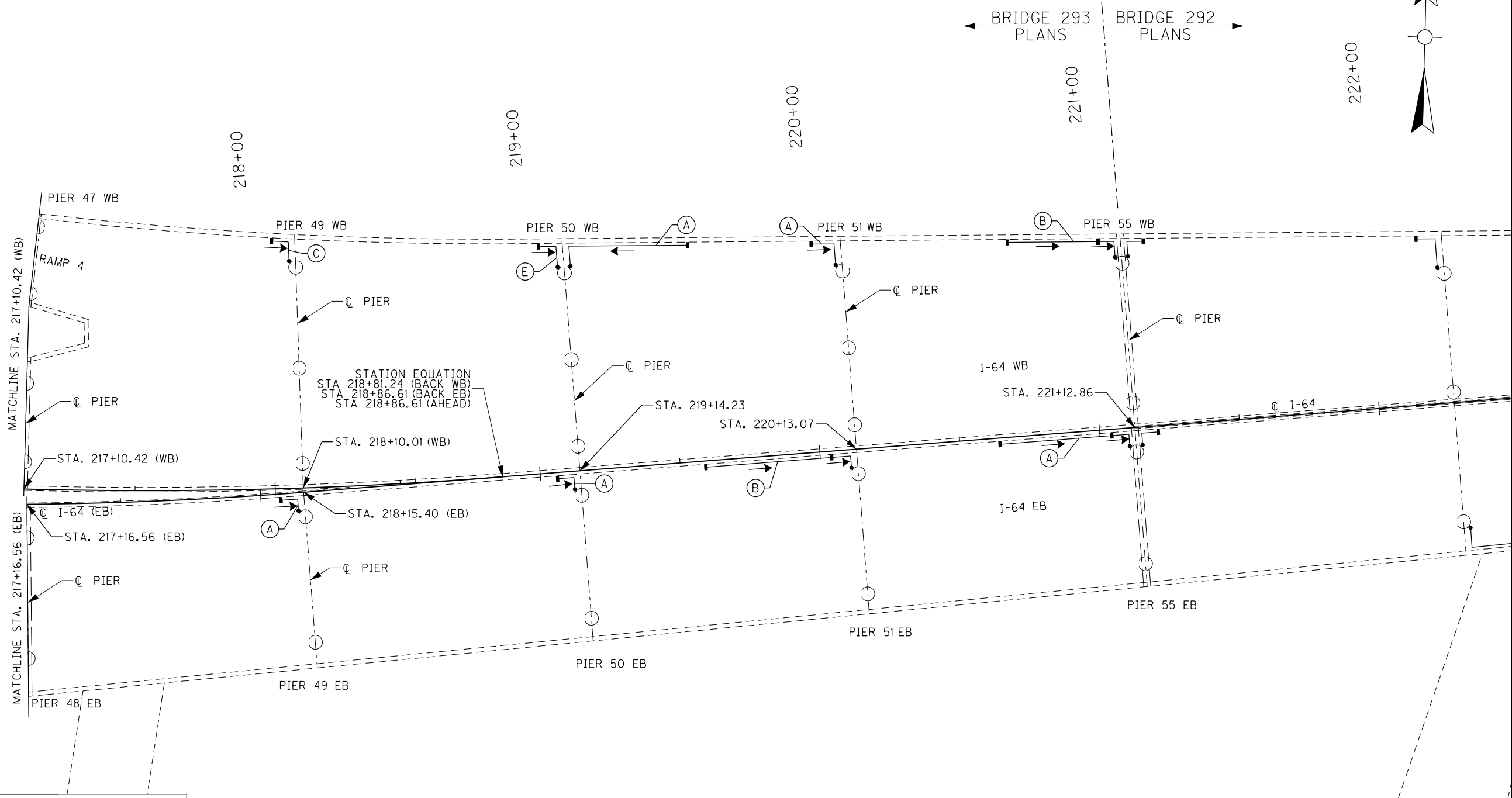
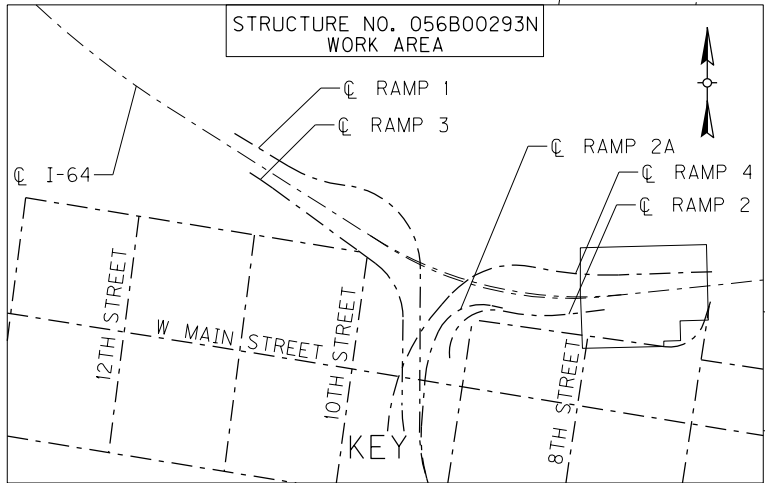
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USER: Nicholas.Allen  
DATE PLOTTED:  
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



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| REVISION  |                                 | DATE                                     |
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| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE LAYOUT – 5   |                                 |  |
| PREPARED BY<br><div>Michael Baker<br/>INTERNATIONAL</div>                                 |                                 | SHEET NO.<br>D37<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

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USER: Nicholas.Allen  
DATE PLOTTED:  
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020

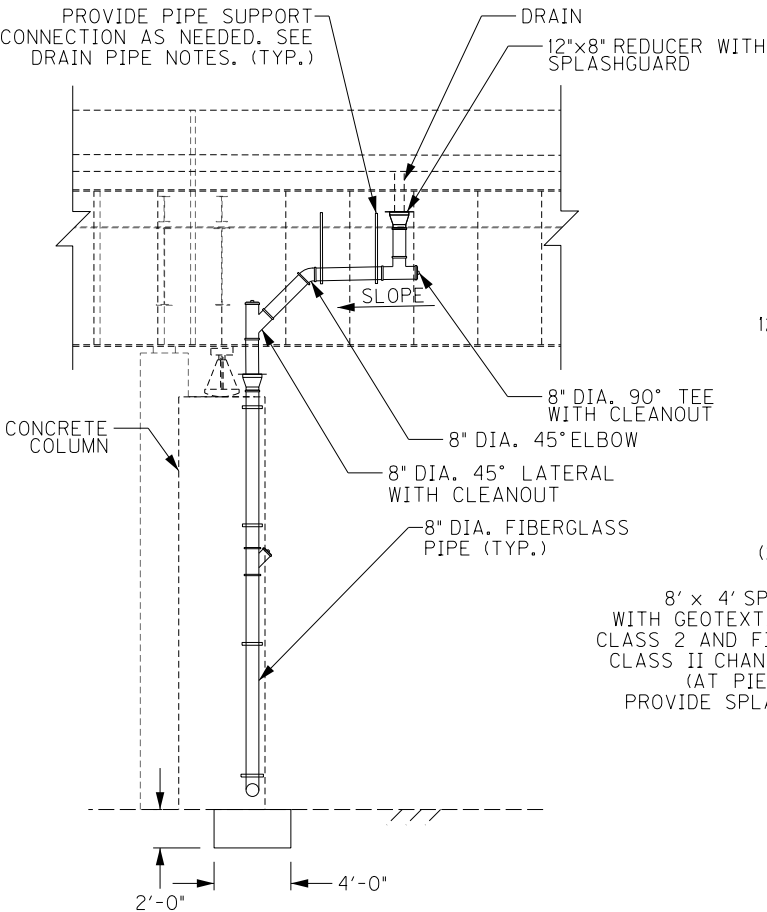


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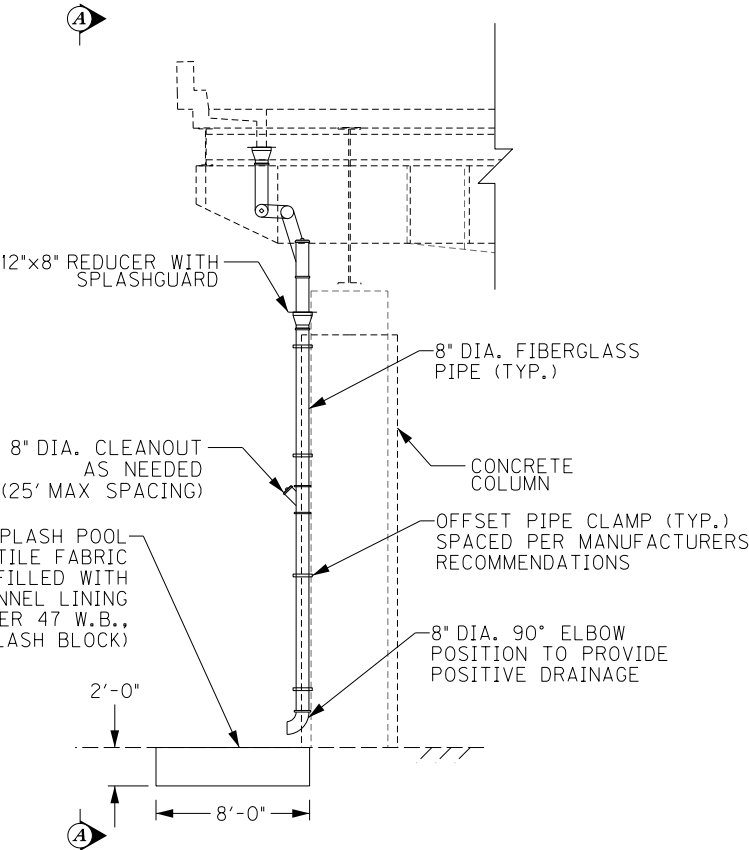
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| DESIGNED BY: NGA  | PDO                             |  |
| DETAILED BY: NGA  | PDO                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |  |
| COUNTY<br>JEFFERSON   |                                 |  |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE LAYOUT – 6   |                                 |  |
| PREPARED BY<br><div>Michael Baker</div> INTERNATIONAL                                     |                                 | SHEET NO.<br>D38<br>DRAWING NO.<br>28870 |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |  |

FILE NAME: DETAILS.293.DGN  
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020  
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



**SECTION A-A**

LONGITUDINAL SECTION  
PIERS 26, 27, 30, 31, 40, 43, 47 (W.B.)  
PIER 33 (E.B.)  
(LOOKING SOUTH)

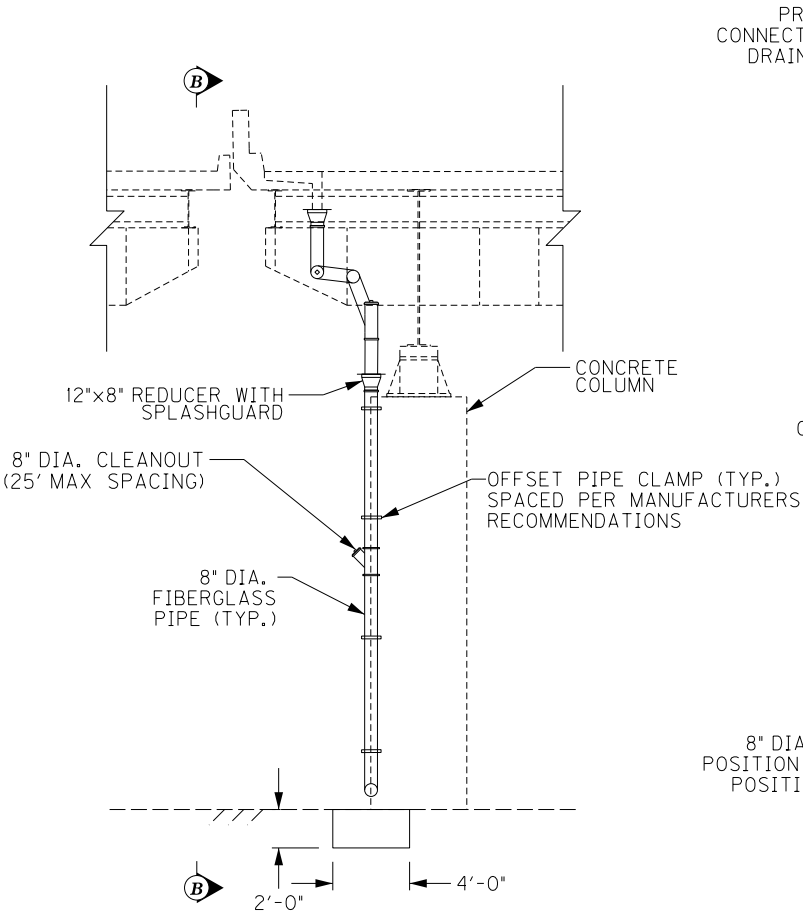


**DRAINAGE DETAIL - ELEVATION**

TRANSVERSE SECTION  
PIERS 26, 27, 30, 31, 40, 43, 47 (W.B.)  
PIER 33 (E.B.)  
(LOOKING EAST)

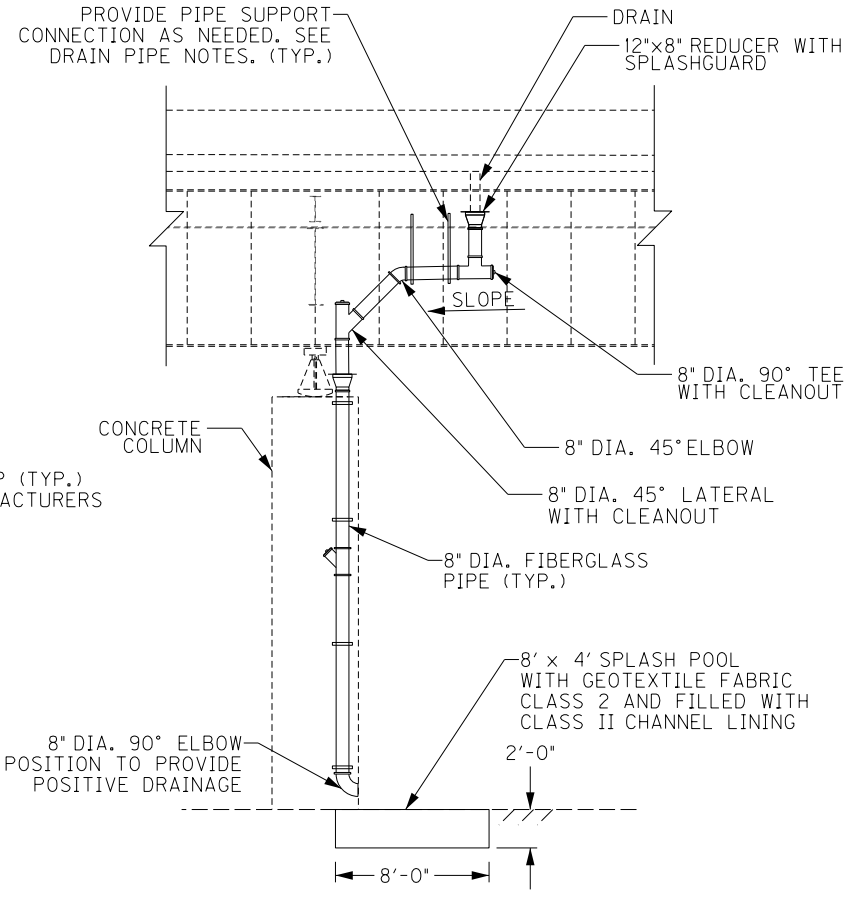
NOTE:

AT PIER 47 W.B., AS DIRECTED BY THE ENGINEER, SAWCUT EXISTING PAVEMENT AS NEEDED AND PROVIDE APPROXIMATELY 3' X 3' X 4" DEEP CLASS A CONCRETE SPLASH BLOCK FLUSH WITH TOP OF PAVEMENT. PLACE ON MINIMUM 4 INCHES OF #57 AGGREGATE WITH GEOTEXTILE FABRIC CLASS 2. COST IS CONSIDERED INCIDENTAL.



**DRAINAGE DETAIL - ELEVATION**

TRANSVERSE SECTION - PIER 26 (E.B.)  
(LOOKING EAST)



**SECTION B-B**

LONGITUDINAL SECTION - PIER 26 (E.B.)  
(LOOKING SOUTH)

NOTES SPECIFIC TO BRIDGE 293:

REMOVE AND DISCARD EXISTING SPLASH BLOCK WHERE SPLASH POOL IS BEING INSTALLED. THE COST IS CONSIDERED INCIDENTAL.

WHERE NO SPLASH POOL IS PROPOSED, SPLASH BLOCK SHALL REMAIN.

WHERE A PIER MAY FALL WITHIN A CURBED AREA, PLACE SPLASH POOL INSIDE OF EXISTING CURB TO MAXIMUM EXTENTS POSSIBLE. EXISTING CURB TO REMAIN.

WHERE NEW CONCRETE SPLASH BLOCK IS PLACED, PROVIDE 1/4" PREFORMED JOINT FILLER MATERIAL BETWEEN IT AND THE EXISTING BRIDGE COLUMN IN ACCORDANCE WITH SECTION 807 OF THE STANDARD SPECIFICATIONS.

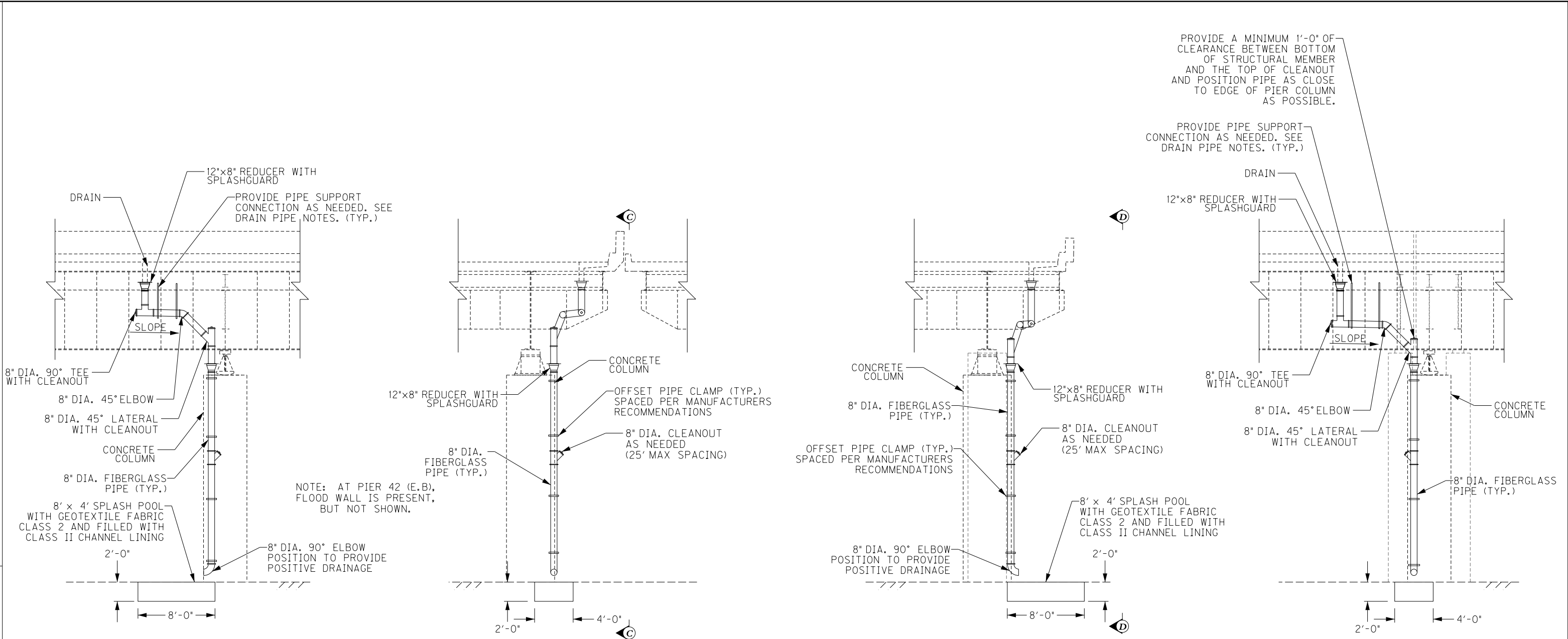
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| DATE: FEB 2021  |  | CHECKED BY                      |  |
| DESIGNED BY: PDO  |  | DMB                             |  |
| DETAILED BY: PDO  |  | DMB                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |  |
| COUNTY<br>JEFFERSON   |  |                                 |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE DETAILS – 1  |  |                                 |  |
| PREPARED BY   |  | SHEET NO.                       |  |
| <div>Michael Baker</div> <div>INTERNATIONAL</div>   |  | D39                             |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870            |  |

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| ITEM NUMBER |
| 5-10016     |

FILE NAME:  
DETAILS.293.DGN

USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



**SECTION C-C**

LONGITUDINAL SECTION  
PIERS 27, 29, 32, 34, 37, 38, 40, 42 (E.B.)  
(LOOKING SOUTH)

**DRAINAGE DETAIL - ELEVATION**

TRANSVERSE SECTION  
PIERS 27, 29, 32, 34, 37, 38, 40, 42 (E.B.)  
(LOOKING WEST)

**DRAINAGE DETAIL - ELEVATION**

TRANSVERSE SECTION  
PIERS 28, 29, 35, 36, 39, 41, 44 (W.B.)  
(LOOKING WEST)

**SECTION D-D**

LONGITUDINAL SECTION  
PIERS 28, 29, 35, 36, 39, 41, 44 (W.B.)  
(LOOKING SOUTH)

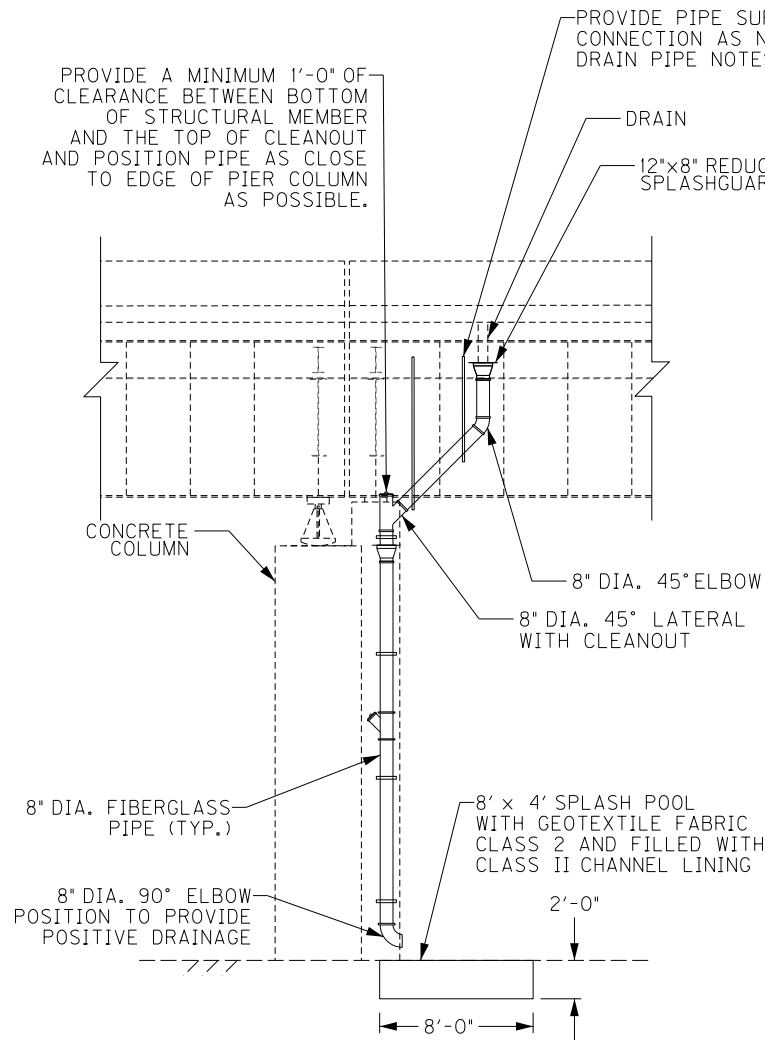
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| DATE: FEB 2021  | CHECKED BY                      |                      |
| DESIGNED BY: PDO  | DMB                             |                      |
| DETAILED BY: PDO  | DMB                             |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |                      |
| COUNTY<br>JEFFERSON   |                                 |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00293N |                      |
| 293 DRAINAGE DETAILS – 2  |                                 |                      |
| PREPARED BY   |                                 | SHEET NO.            |
| <div>Michael Baker<br/>INTERNATIONAL</div>  |                                 | D40                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 | DRAWING NO.<br>28870 |

FILE NAME:  
DETAILS.293.DGN

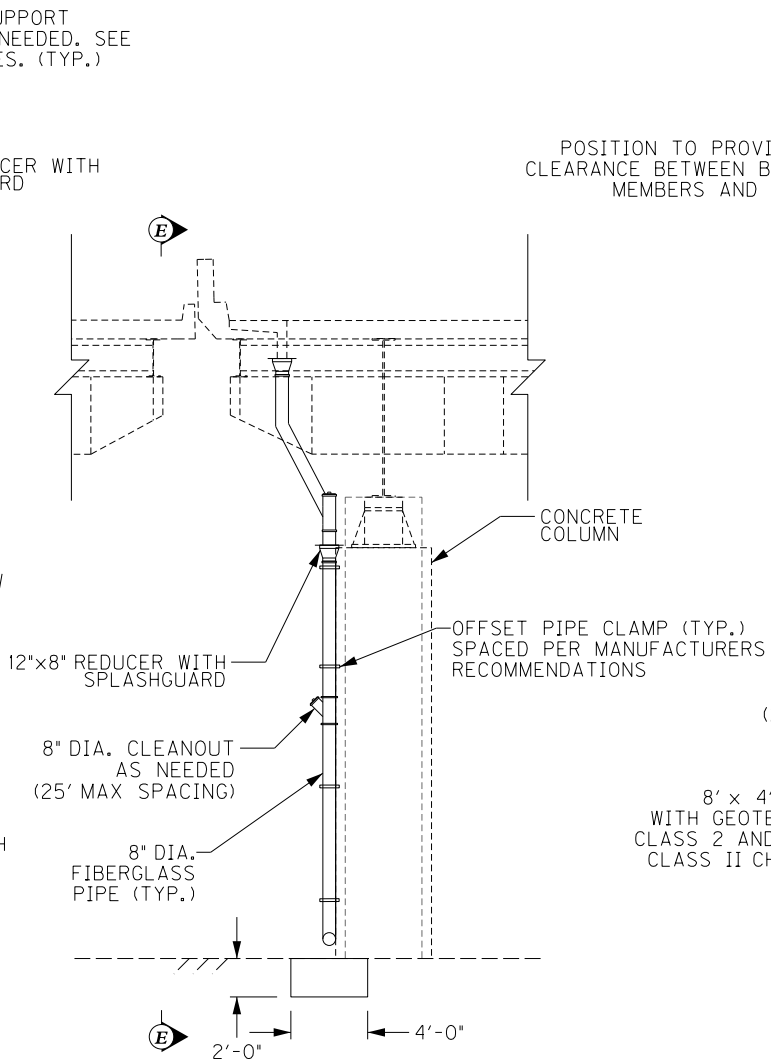
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



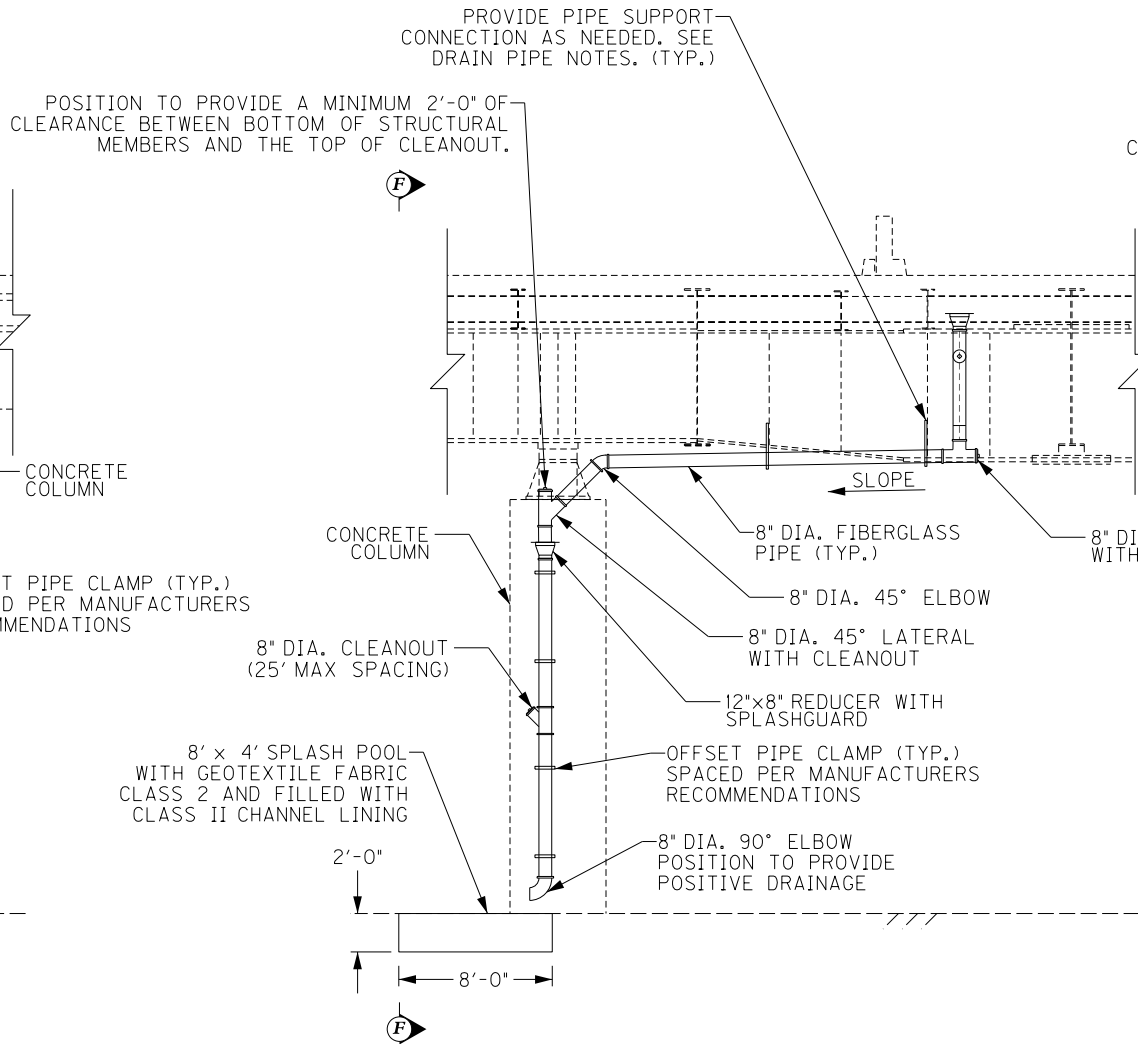
### SECTION E-E

LONGITUDINAL SECTION - PIER 28, 36 (E.B.)  
(LOOKING SOUTH)



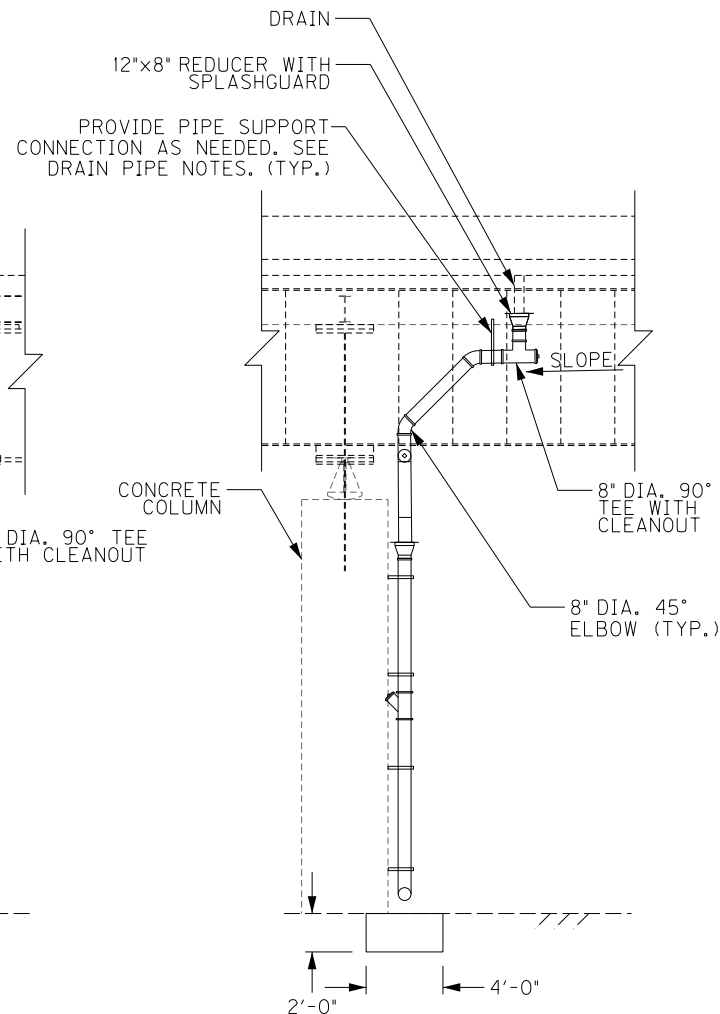
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION - PIER 28, 36 (E.B.)  
(LOOKING EAST)



### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION - PIER 30 (E.B.)  
(LOOKING EAST)



### SECTION F-F

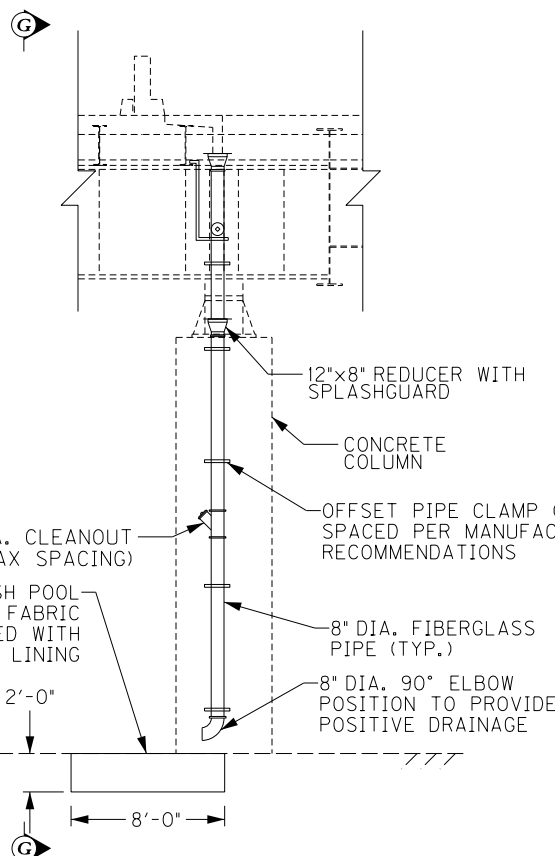
LONGITUDINAL SECTION - PIER 30 (E.B.)  
(LOOKING SOUTH)

ITEM NUMBER

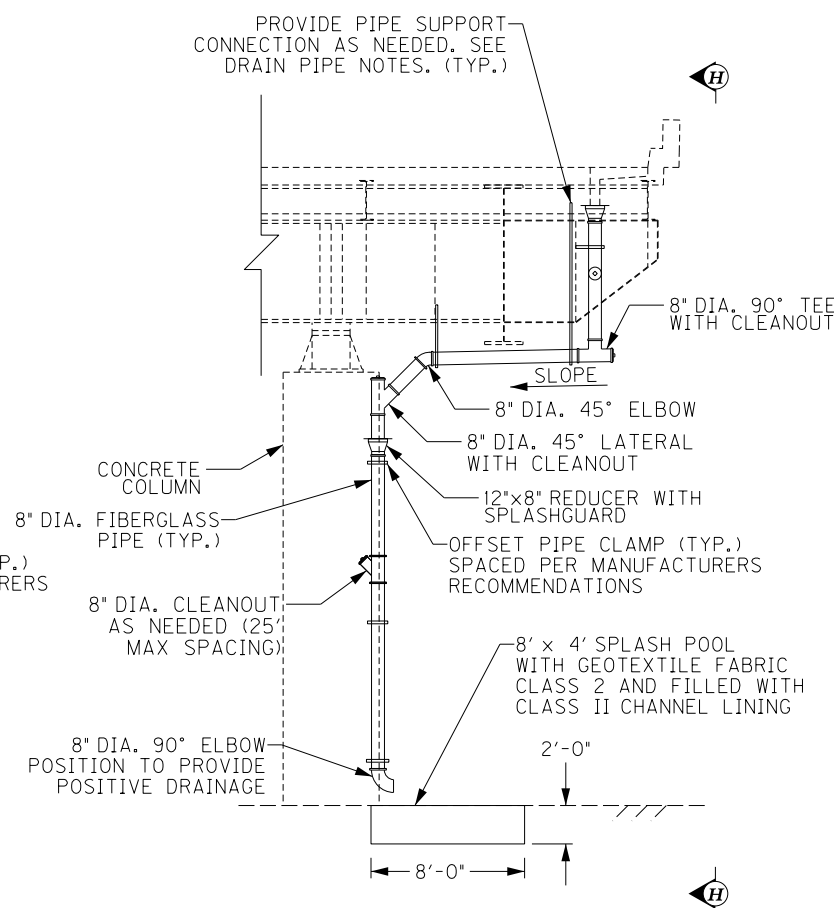
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| DATE: FEB 2021  |  | CHECKED BY                      |                      |
| DESIGNED BY: PDO  |  | DMB                             |                      |
| DETAILED BY: PDO  |  | DMB                             |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |                      |
| COUNTY<br>JEFFERSON   |  |                                 |                      |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00293N |                      |
| 293 DRAINAGE DETAILS – 3  |  |                                 |                      |
| PREPARED BY   |  |                                 | SHEET NO.            |
| Michael Baker<br>INTERNATIONAL  |  |                                 | D41                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |                                 | DRAWING NO.<br>28870 |

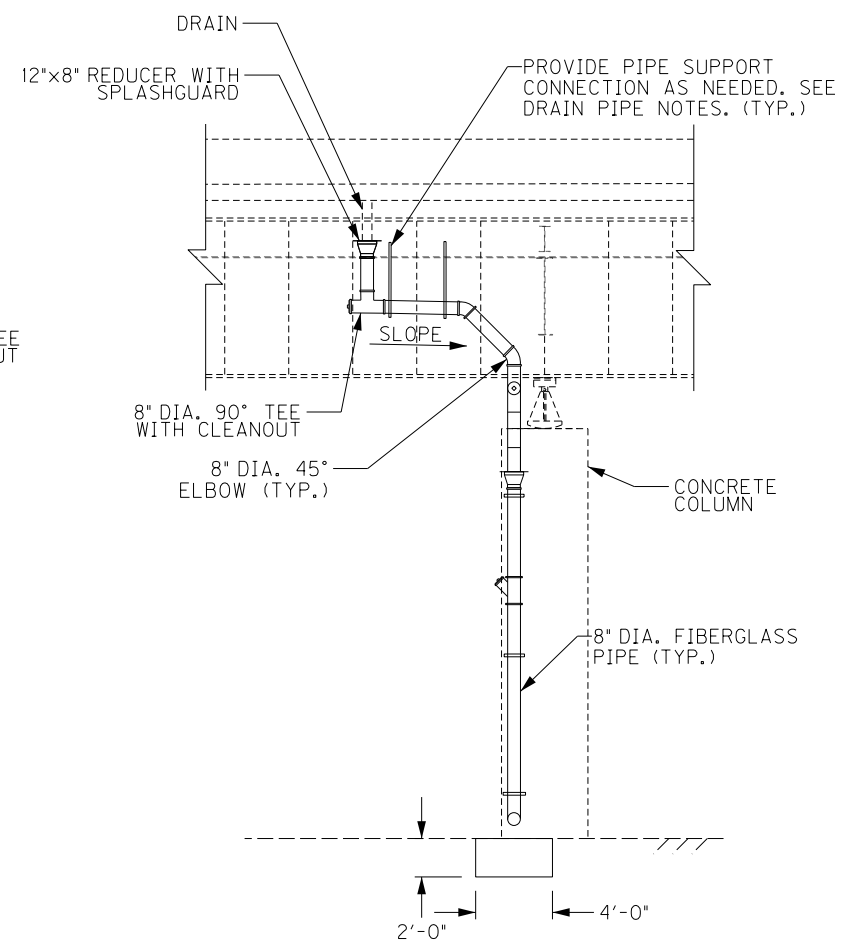






TRANSVERSE SECTION - PIER 31 (E.B.)  
(LOOKING EAST)



TRANSVERSE SECTION - PIER 32 (W.B.)  
(LOOKING WEST)

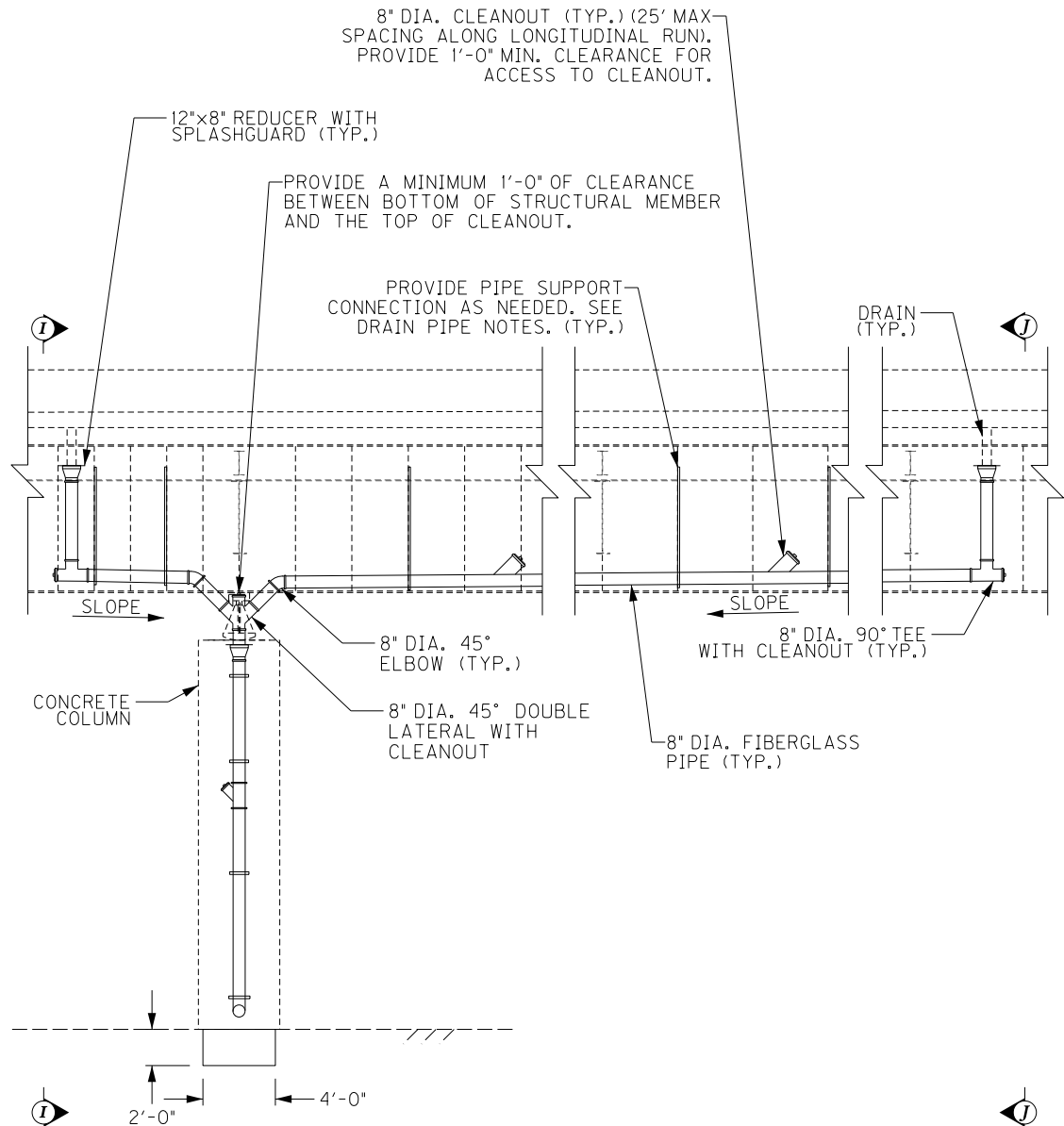


LONGITUDINAL SECTION - PIER 32 (W.B.)  
(LOOKING SOUTH)

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| REVISION   |  | DATE       |   |
| DATE: FEB 2021   |  | CHECKED BY |   |
| DESIGNED BY: PDO   |  | DMB        |   |
| DETAILED BY: PDO   |  | DMB        |   |
| <p align="center"><b>Commonwealth of Kentucky</b><br/> <b>DEPARTMENT OF HIGHWAYS</b></p>   |  |            |   |
| <p align="center">COUNTY<br/> <b>JEFFERSON</b></p>   |  |            |   |
| ROUTE<br><b>I-64</b>   | CROSSING<br><b>STR. NO. 056B00293N</b> |            |   |
| <b>293 DRAINAGE DETAILS – 4</b>  |  |            |   |
| PREPARED BY<br><div>  <div>             1650 Lyndon Farm Court<br/>             Louisville, KY 40223<br/>             Phone: (502) 339-3557<br/>             MBAKERINTL.COM           </div> </div> |  |            | SHEET NO.<br><div>  </div> |
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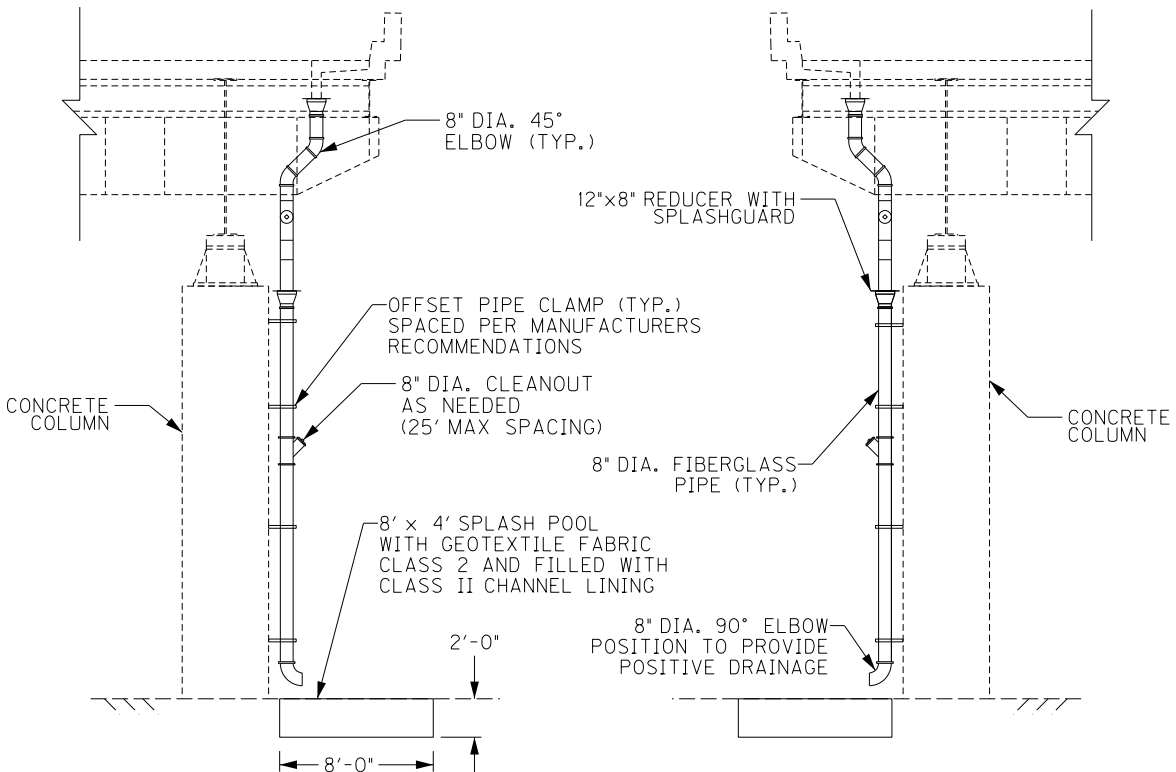
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OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020  
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020  
FILE NAME: DETAILS.293.DGN



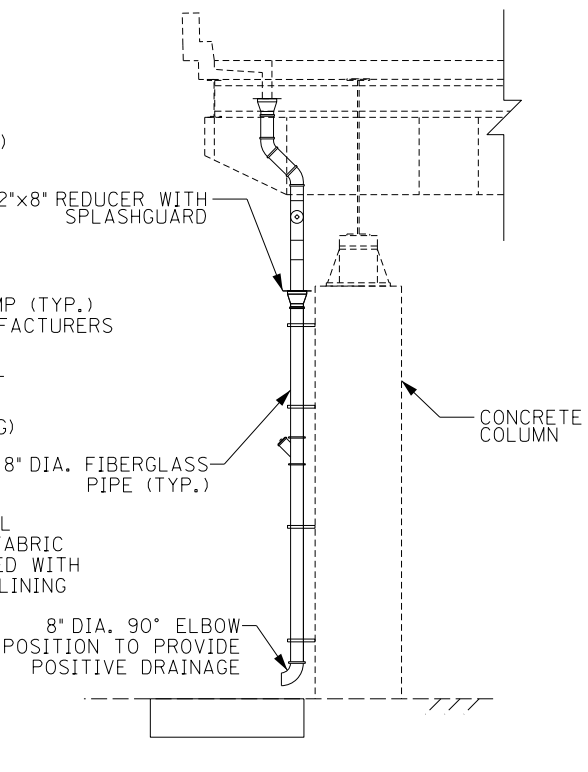
**DRAINAGE DETAIL - ELEVATION**

LONGITUDINAL SECTION  
PIER 33 (W.B.)  
PIER 35 (E.B.)  
(LOOKING SOUTH)



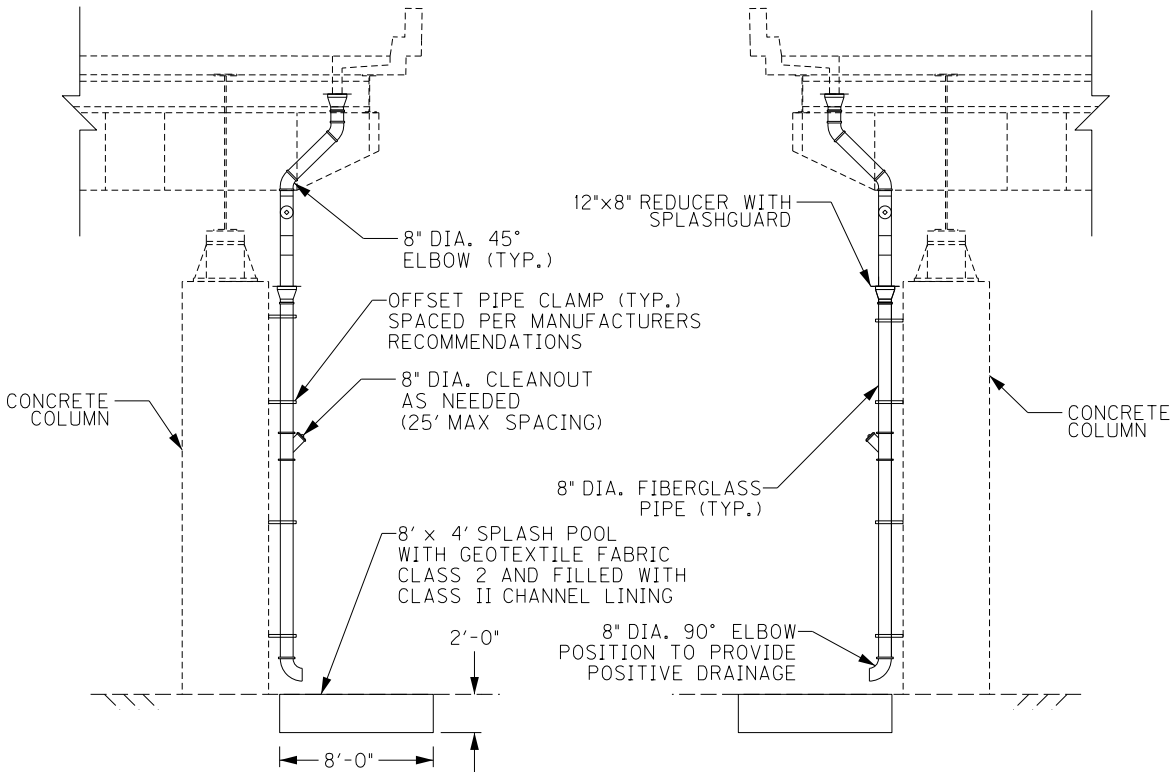
**SECTION I-I**

TRANSVERSE SECTION  
PIER 33 (W.B.)  
(LOOKING WEST)



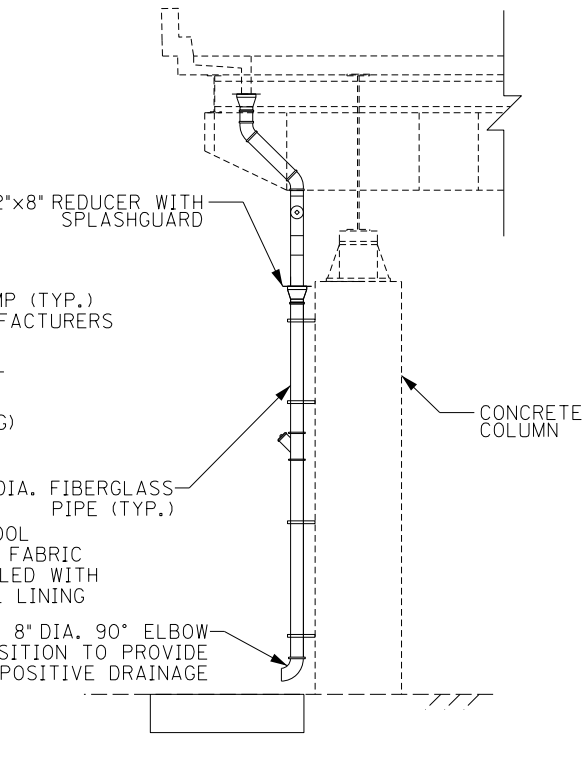
**SECTION J-J**

TRANSVERSE SECTION  
PIER 33 (W.B.)  
(LOOKING EAST)



**SECTION I-I**

TRANSVERSE SECTION  
PIER 35 (E.B.)  
(LOOKING WEST)



**SECTION J-J**

TRANSVERSE SECTION  
PIER 35 (E.B.)  
(LOOKING EAST)

ITEM NUMBER

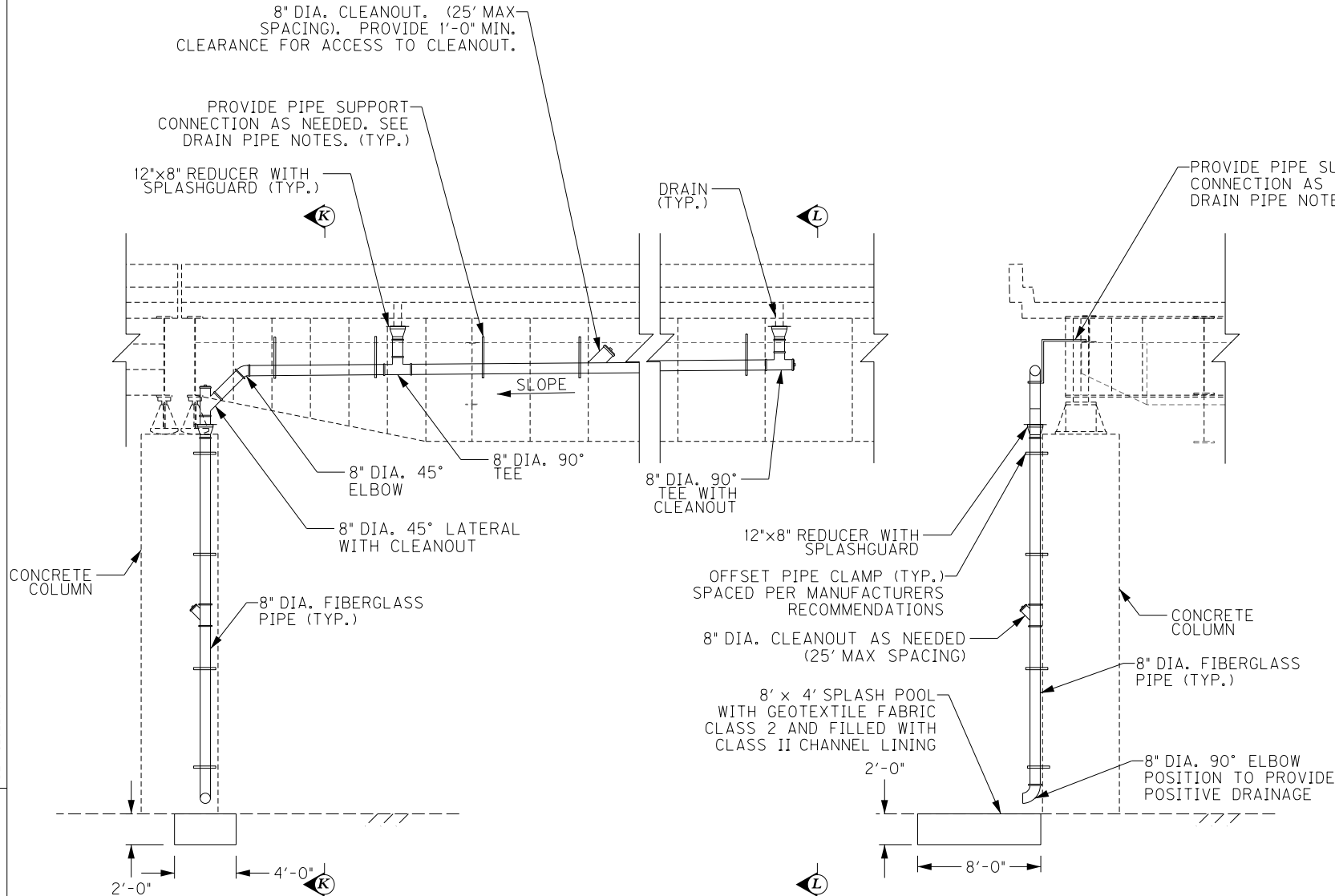
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| DATE: FEB 2021  | CHECKED BY                      |                      |
| DESIGNED BY: PDO  | DMB                             |                      |
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| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |                      |
| COUNTY<br>JEFFERSON   |                                 |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00293N |                      |
| 293 DRAINAGE DETAILS – 5  |                                 |                      |
| PREPARED BY   |                                 | SHEET NO.            |
| <div>Michael Baker</div> INTERNATIONAL  |                                 | D43                  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 | DRAWING NO.<br>28870 |

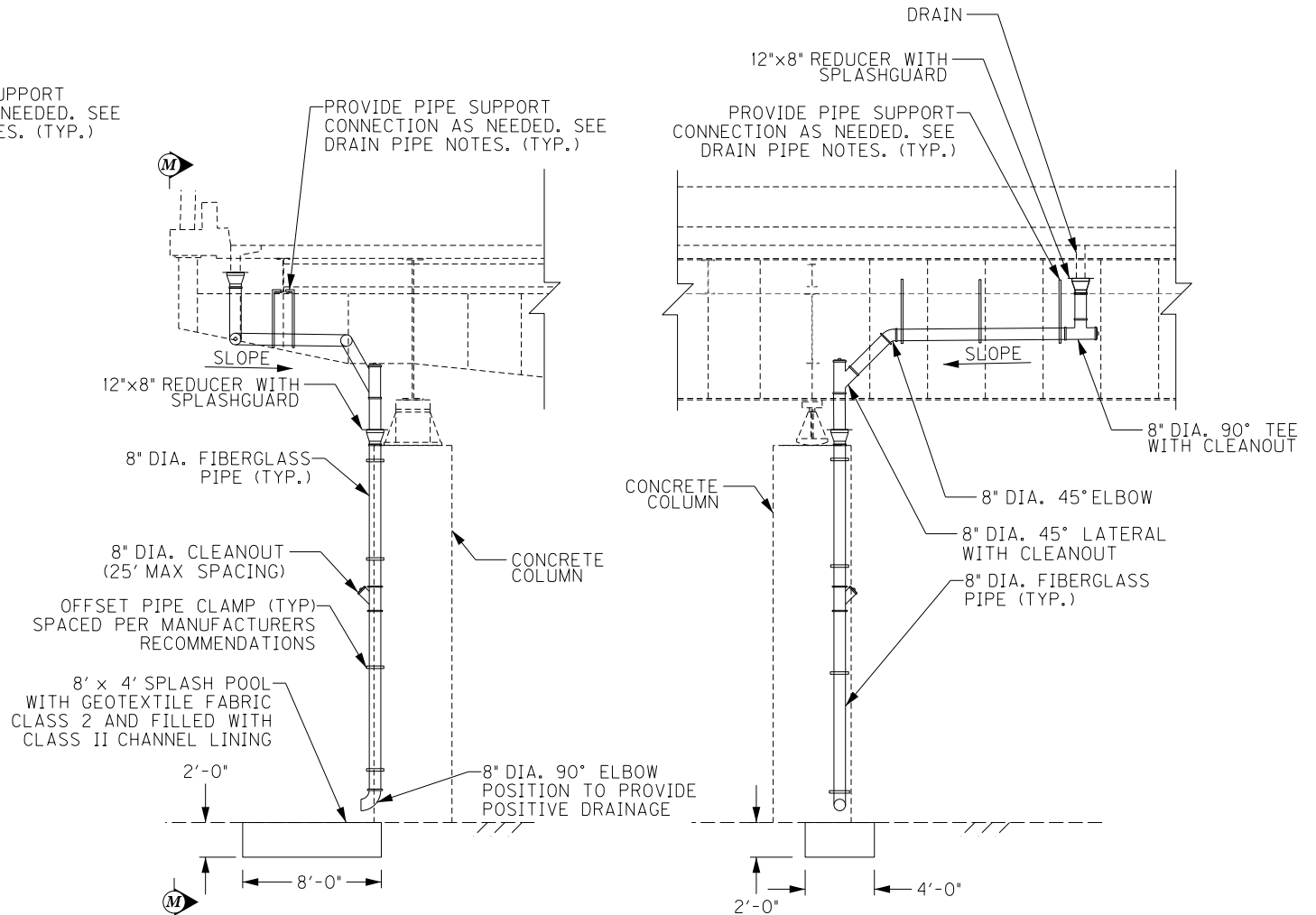
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USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

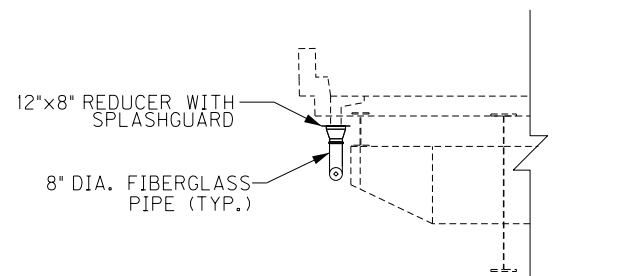
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



**DRAINAGE DETAIL - ELEVATION**  
LONGITUDINAL SECTION - PIER RI-17 (W.B.) (LOOKING SOUTH)



**DRAINAGE DETAIL - ELEVATION**  
TRANSVERSE SECTION PIER 37 & 38 @ RAMP 3 (E.B.) (LOOKING WEST)



**SECTION L-L**  
TRANSVERSE SECTION - PIER RI-17 (W.B.) (LOOKING EAST)

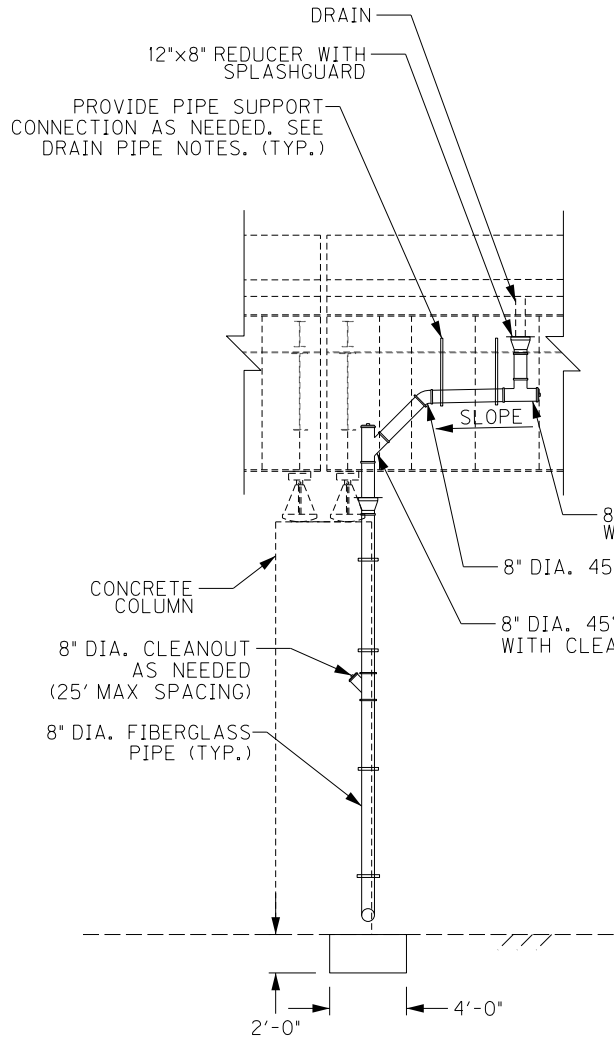
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| DETAILED BY: PDO  |  | DMB                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |  |
| COUNTY<br>JEFFERSON   |  |                                 |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE DETAILS – 6  |  |                                 |  |
| PREPARED BY   |  | SHEET NO.                       |  |
| Michael Baker<br>INTERNATIONAL  |  | D44                             |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870            |  |

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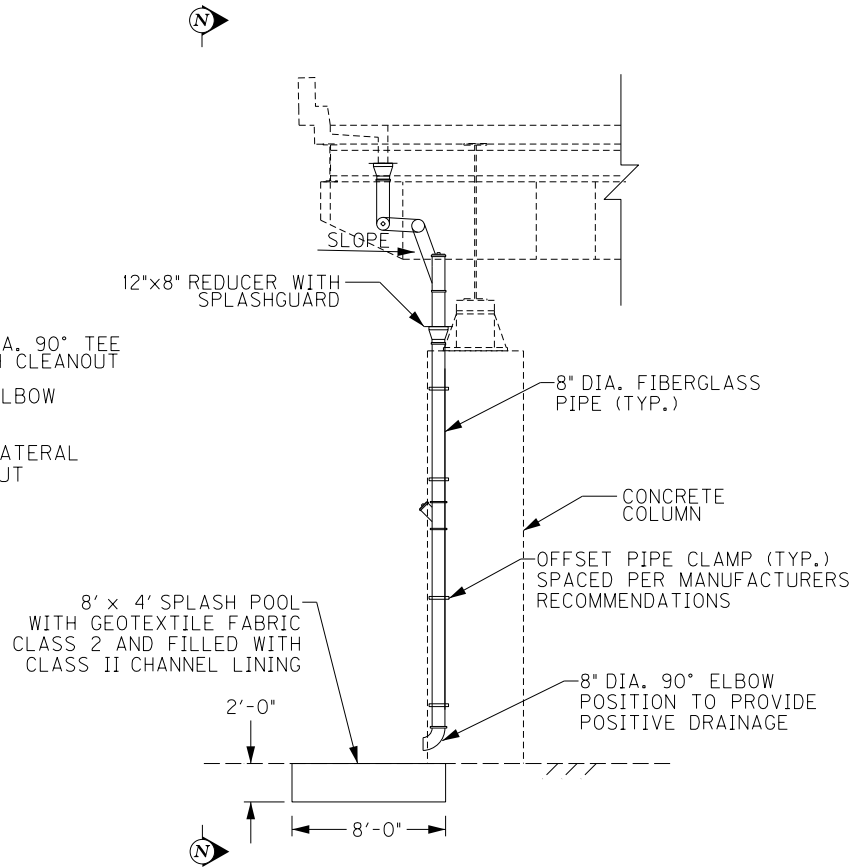
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DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



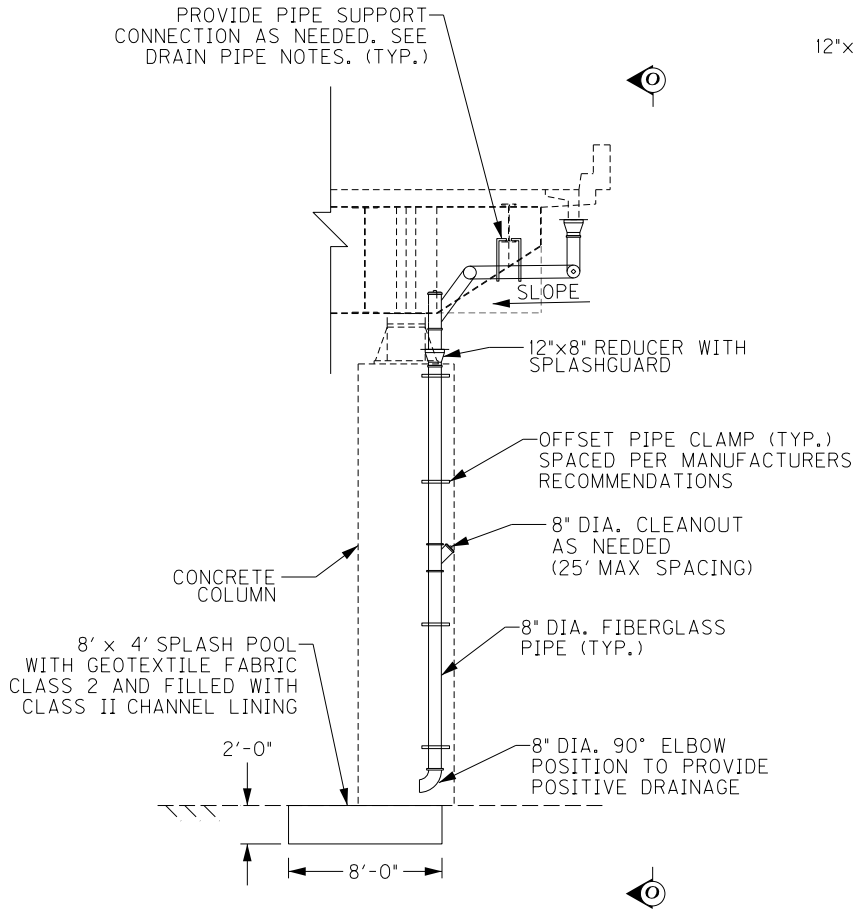
### SECTION N-N

LONGITUDINAL SECTION  
PIER 37 (W.B.)  
(LOOKING SOUTH)



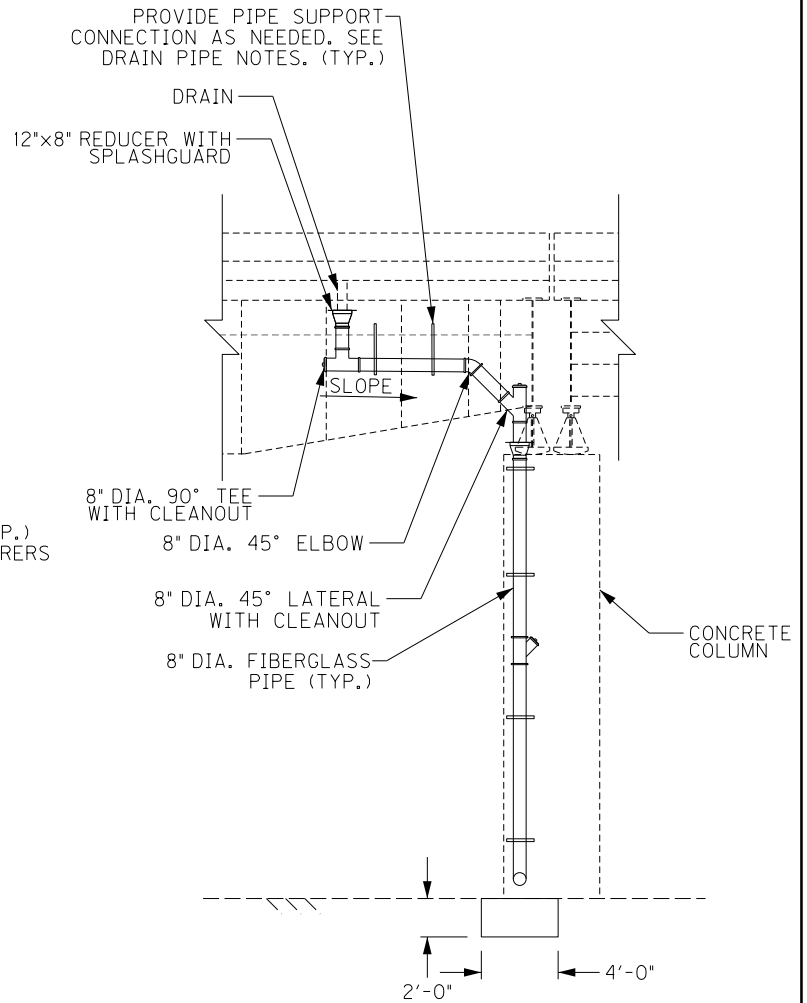
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 37 (W.B.)  
(LOOKING EAST)



### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION - PIER R3-1 (E.B.)  
(LOOKING EAST)

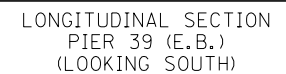
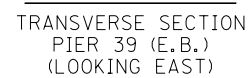
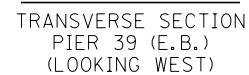
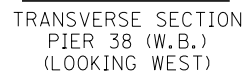
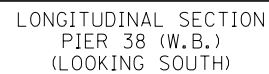


### SECTION O-O

LONGITUDINAL SECTION - PIER R3-1 (E.B.)  
(LOOKING NORTH)

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| DESIGNED BY: PDO  |  | DMB                             |  |
| DETAILED BY: PDO  |  | DMB                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |  |
| COUNTY<br>JEFFERSON   |  |                                 |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE DETAILS – 7  |  |                                 |  |
| PREPARED BY   |  | SHEET NO.                       |  |
| <div>Michael Baker</div> INTERNATIONAL  |  | D45                             |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  | DRAWING NO.<br>28870            |  |

1650 Lyndon Farm Court  
Louisville, KY 40223  
Phone: (502) 339-3557  
MBAKERINTL.COM

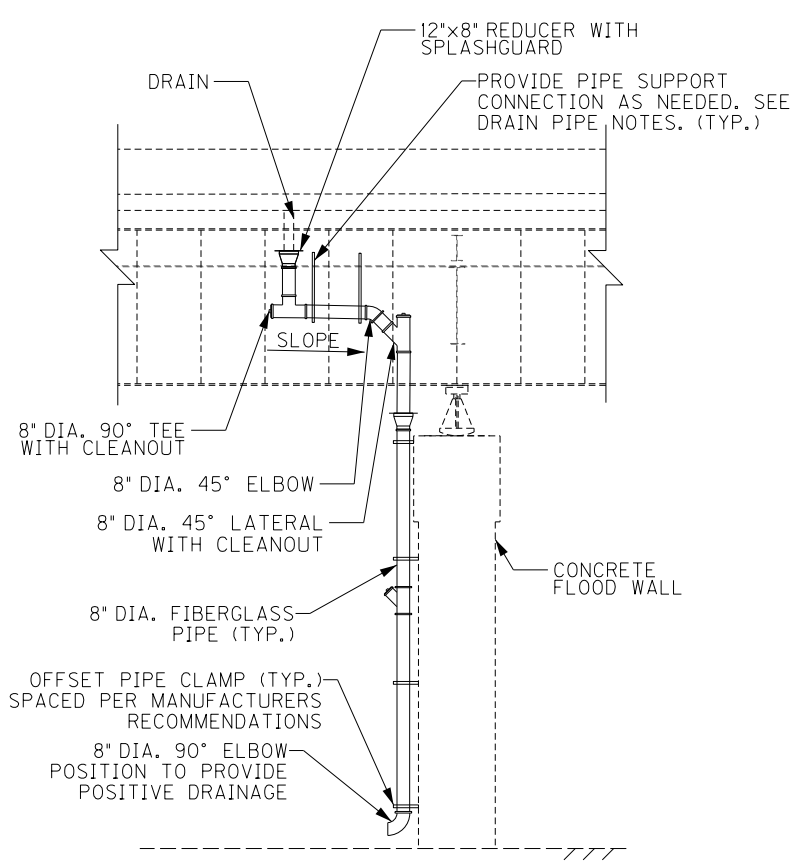


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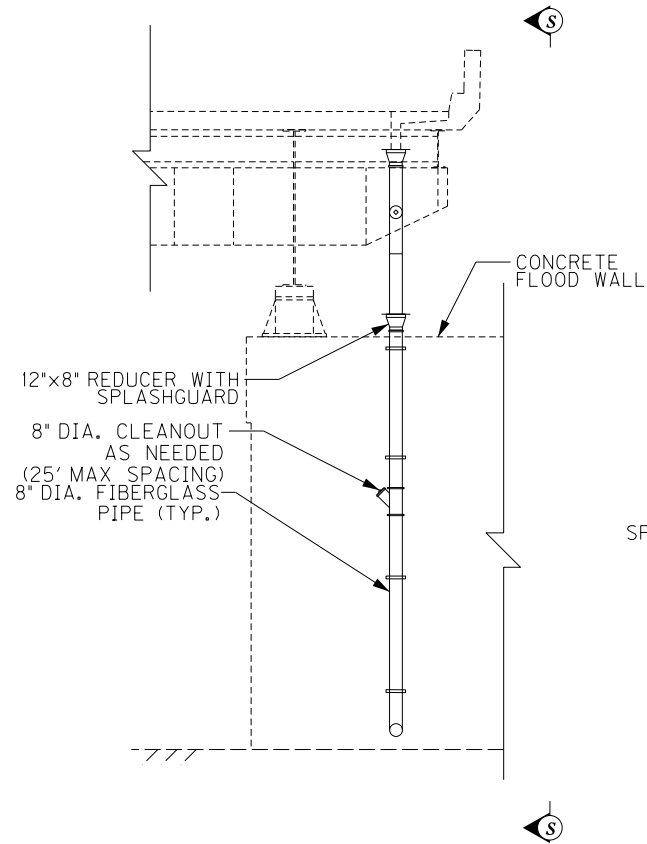
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USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

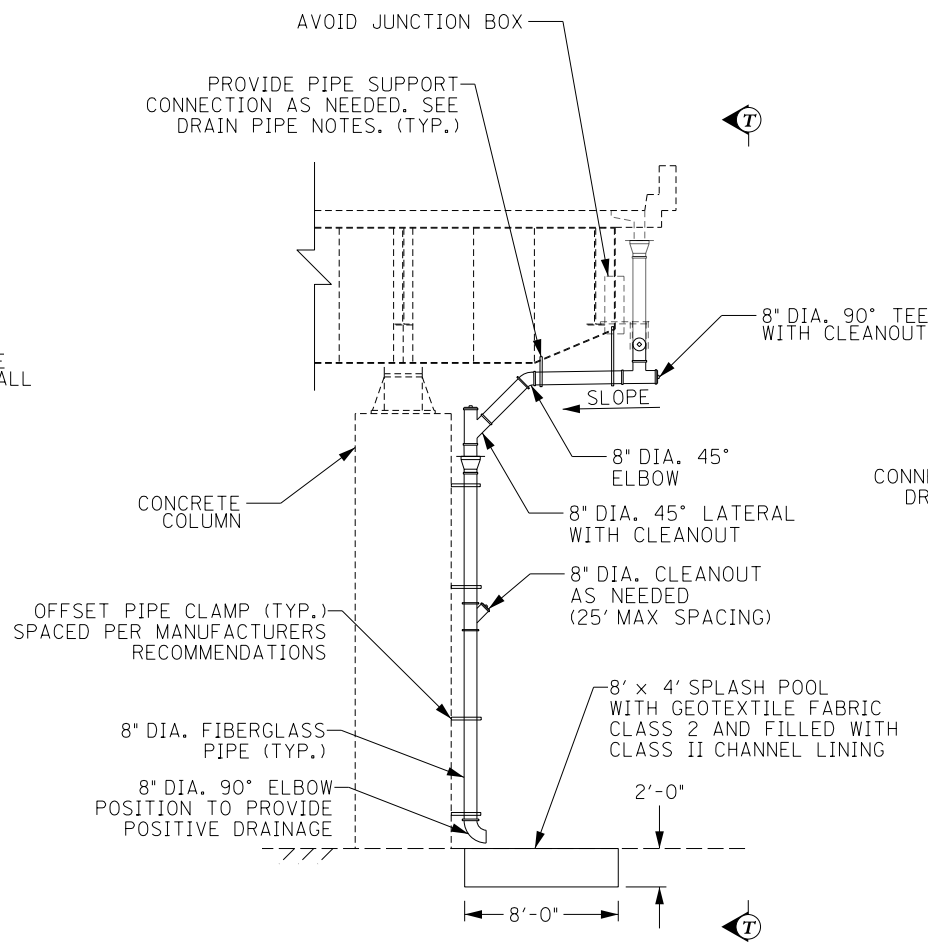
OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



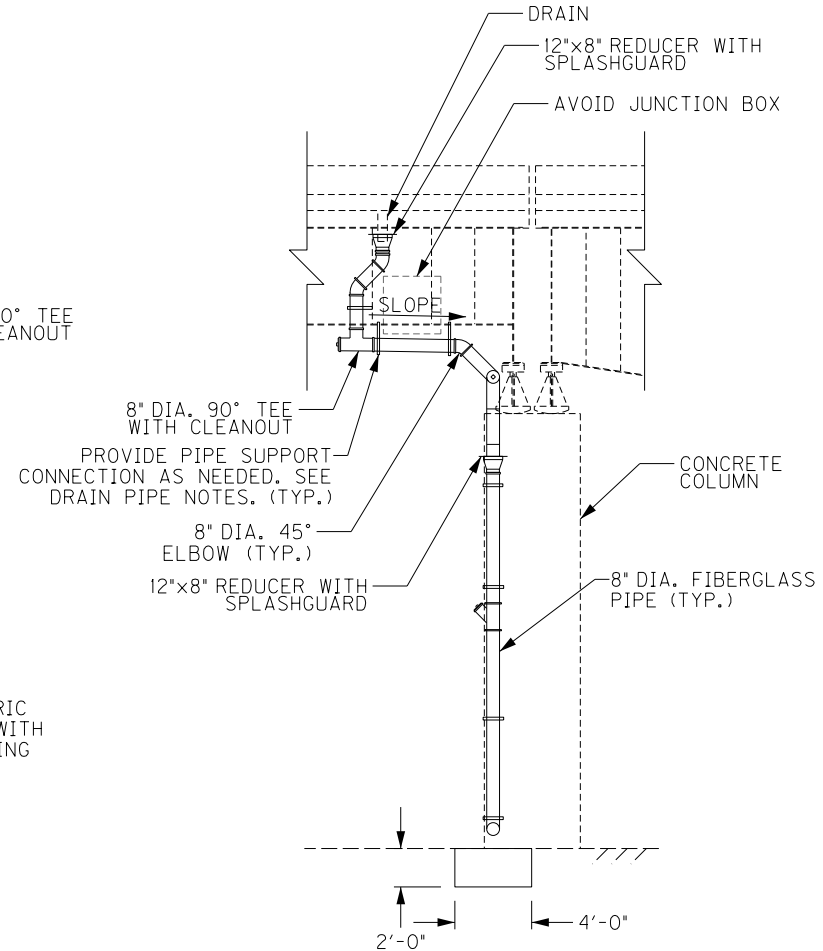
**SECTION S-S**  
LONGITUDINAL SECTION  
PIER 43 (E.B.)  
(LOOKING SOUTH)



**DRAINAGE DETAIL – ELEVATION**  
TRANSVERSE SECTION  
PIER 43 (E.B.)  
(LOOKING WEST)



**DRAINAGE DETAIL – ELEVATION**  
TRANSVERSE SECTION  
PIER 45 (E.B.)  
(LOOKING WEST)



**SECTION T-T**  
LONGITUDINAL SECTION  
PIER 45 (E.B.)  
(LOOKING SOUTH)

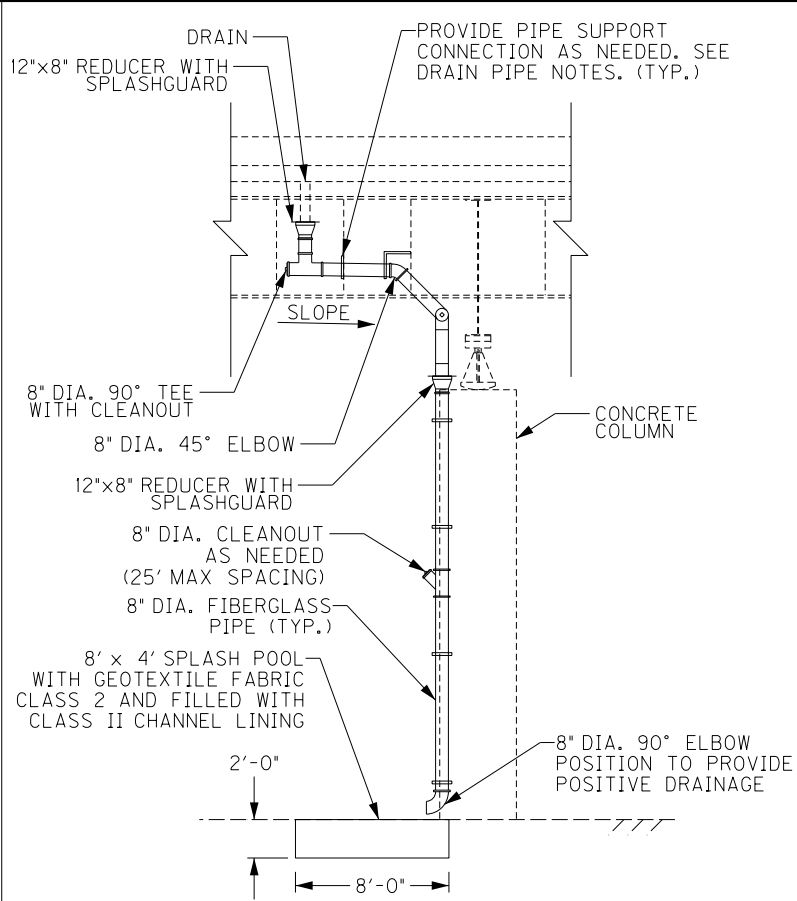
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| REVISION   |  | DATE   |  |
| DATE: FEB 2021                                     |  | CHECKED BY   |  |
| DESIGNED BY: PDO                                   |  | DMB  |  |
| DETAILED BY: PDO                                   |  | DMB  |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |  |  |
| COUNTY<br>JEFFERSON                                |  |  |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>STR. NO. 056B00293N  |  |
| 293 DRAINAGE DETAILS – 9                           |  |  |  |
| PREPARED BY  |  | SHEET NO.  |  |
| Michael Baker<br>INTERNATIONAL                     |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM<br>D47<br>DRAWING NO.<br>28870 |  |

|             |
|-------------|
| ITEM NUMBER |
| 5-10016     |

FILE NAME:  
DETAILS.293.DGN

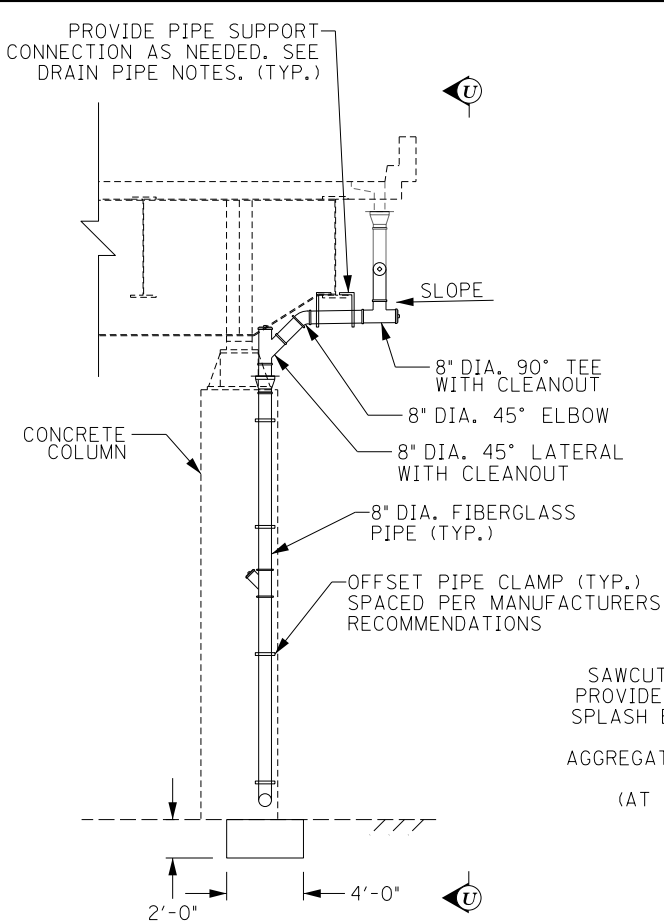
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



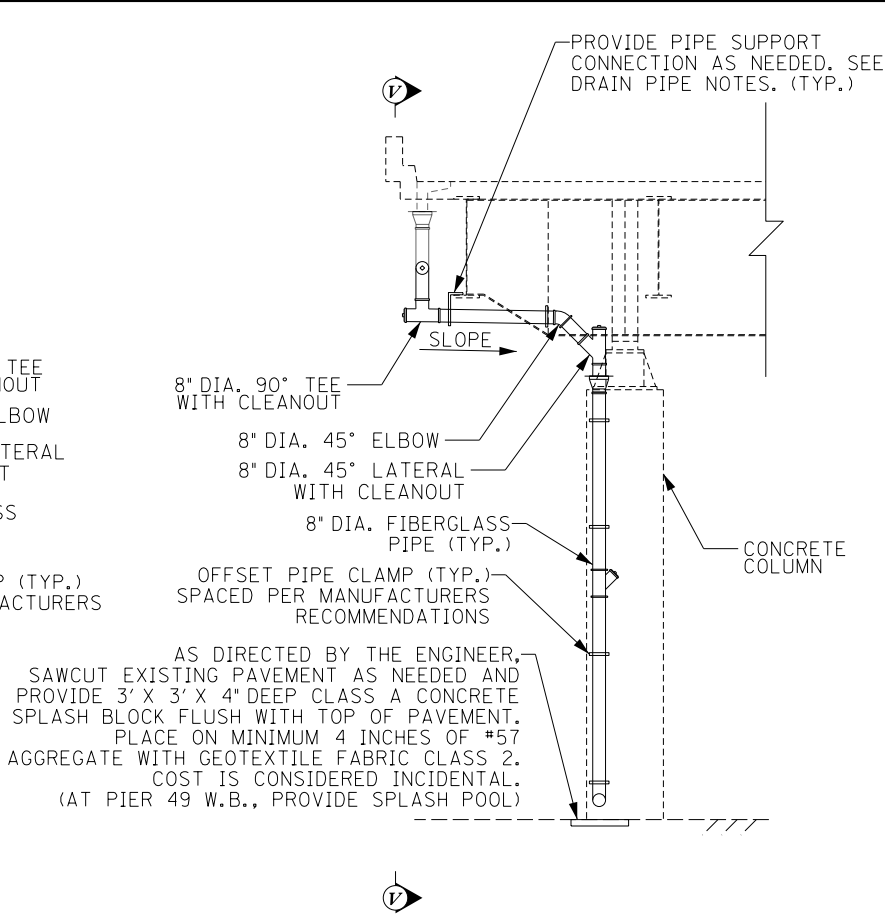
### SECTION U-U

LONGITUDINAL SECTION  
PIER 46 (E.B.)  
(LOOKING SOUTH)



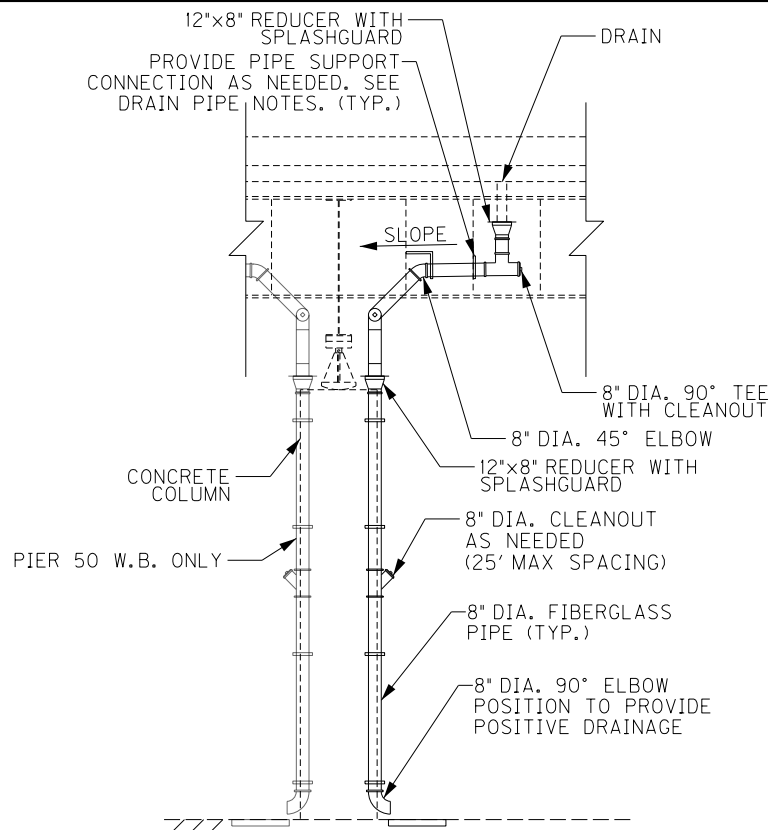
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 46 (E.B.)  
(LOOKING WEST)



### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIERS 48, 49, 50 (E.B.)  
PIERS 49, 50 (W.B.)  
(LOOKING EAST)

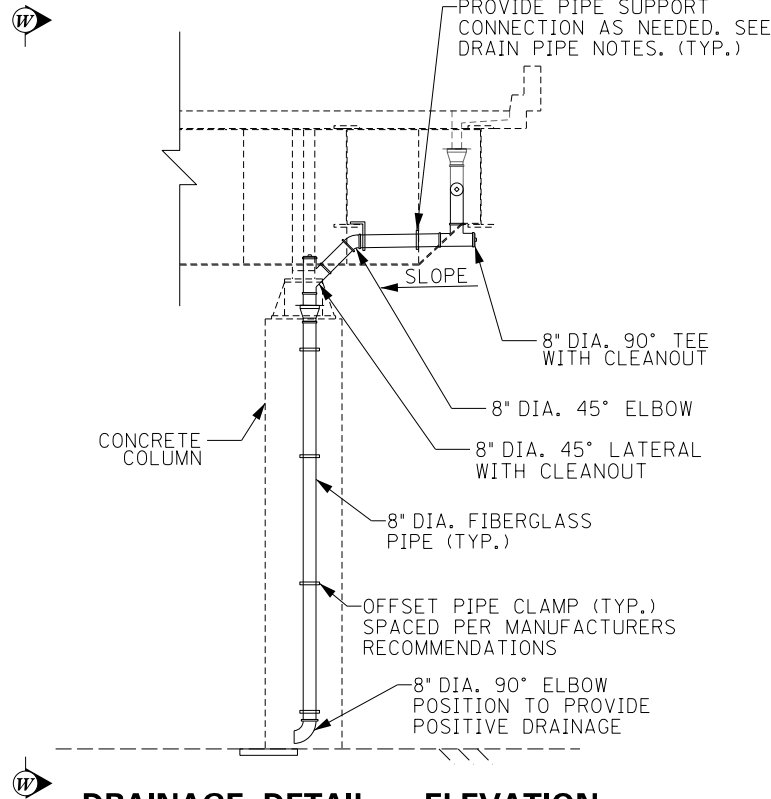


### SECTION V-V

LONGITUDINAL SECTION  
PIERS 48, 49, 50 (E.B.)  
PIERS 49, 50 (W.B.)  
(LOOKING SOUTH)

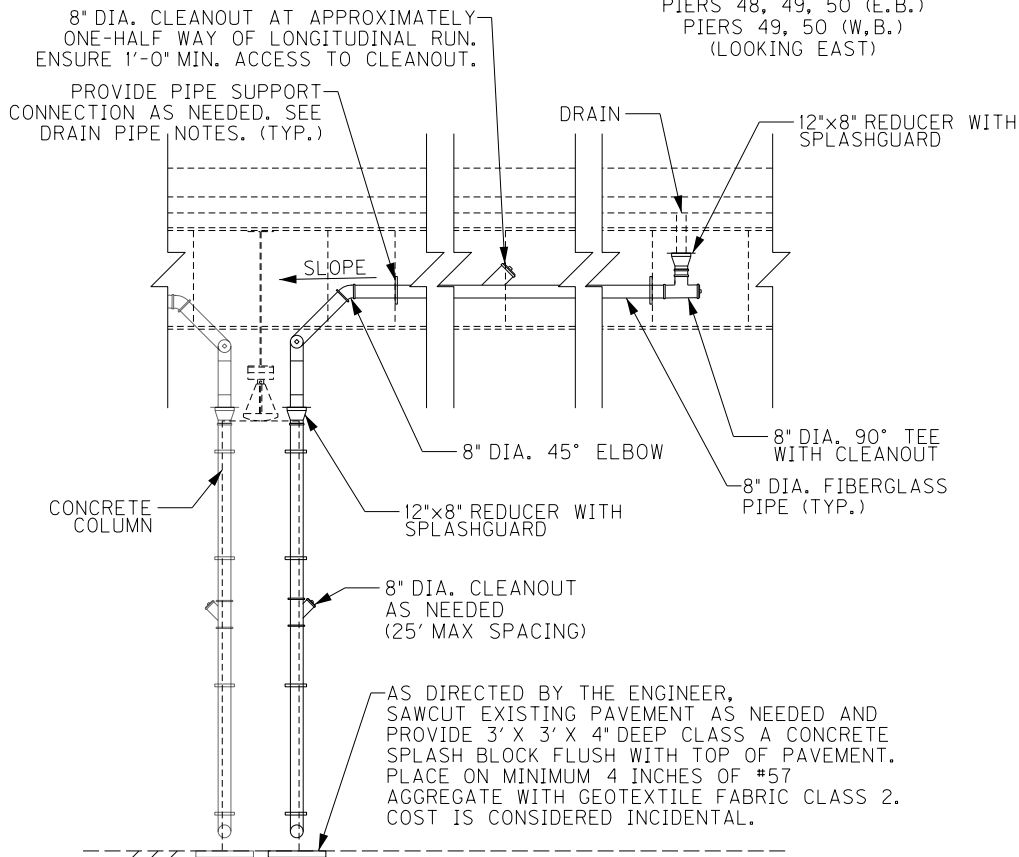
NOTE:

AT PIER 49 W.B., PROVIDE 8' x 4' x 2' DEEP  
SPLASH POOL WITH GEOTEXTILE FABRIC CLASS  
2 AND FILLED WITH CLASS II CHANNEL LINING



### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 50 (W.B.)  
(LOOKING WEST)



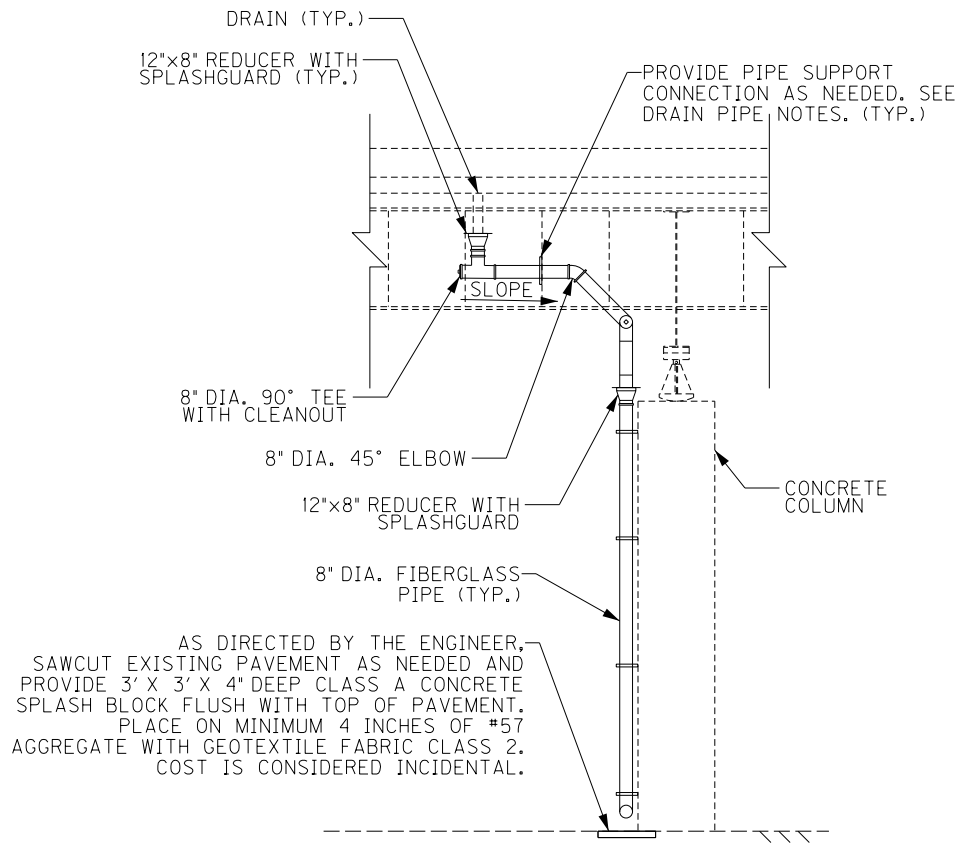
### SECTION W-W

LONGITUDINAL SECTION  
PIER 50 (W.B.)  
(LOOKING NORTH)

| ITEM NUMBER |
|-------------|
| 5-10016     |

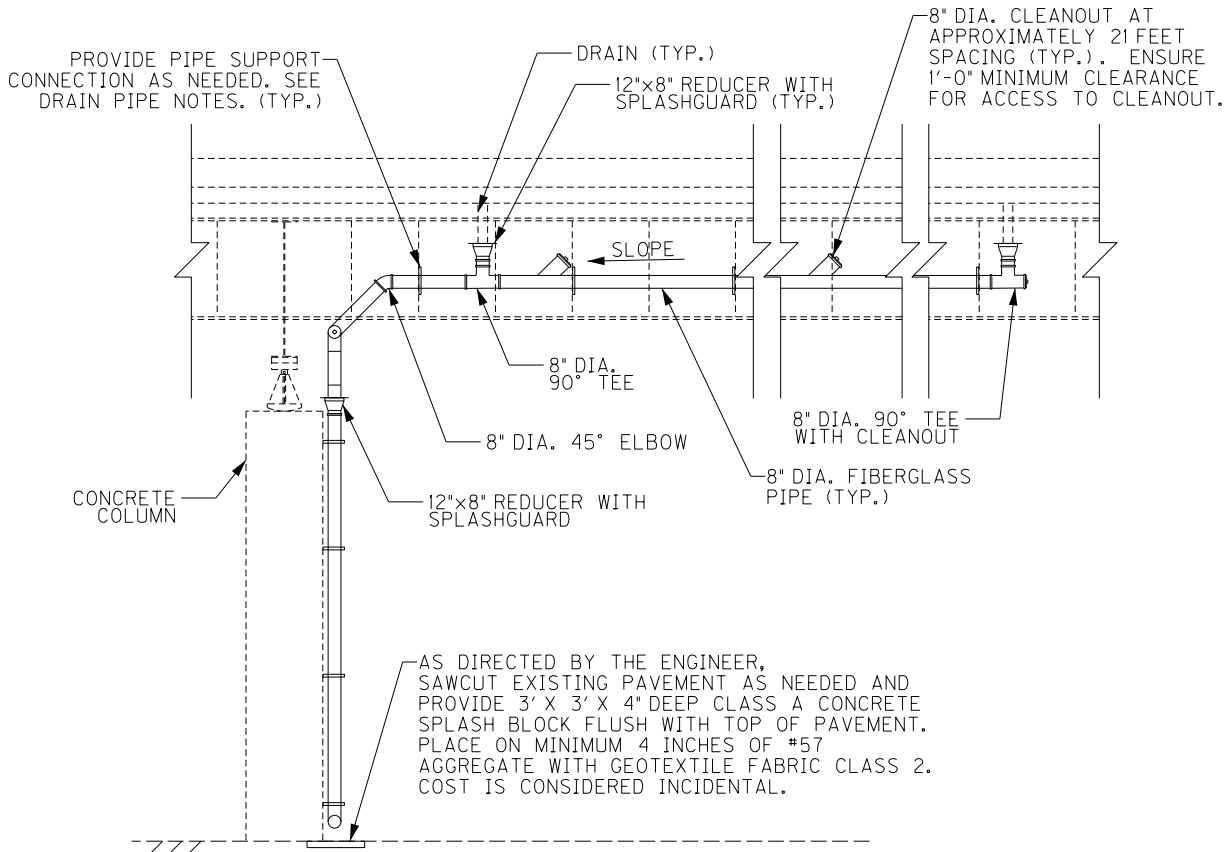
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| REVISION  |                                 | DATE |                      |
| DATE: FEB 2021  | CHECKED BY                      |      |                      |
| DESIGNED BY: PDO  | DMB                             |      |                      |
| DETAILED BY: PDO  | DMB                             |      |                      |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |                                 |      |                      |
| COUNTY<br>JEFFERSON   |                                 |      |                      |
| ROUTE<br>I-64   | CROSSING<br>STR. NO. 056B00293N |      |                      |
| 293 DRAINAGE DETAILS – 10   |                                 |      |                      |
| PREPARED BY   |                                 |      | SHEET NO.            |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |                                 |      | D48                  |
| Michael Baker<br>INTERNATIONAL  |                                 |      | DRAWING NO.<br>28870 |

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020 USER: Nicholas.Allen DATE PLOTTED: July 16, 2020 FILE NAME: DETAILS.293.DGN



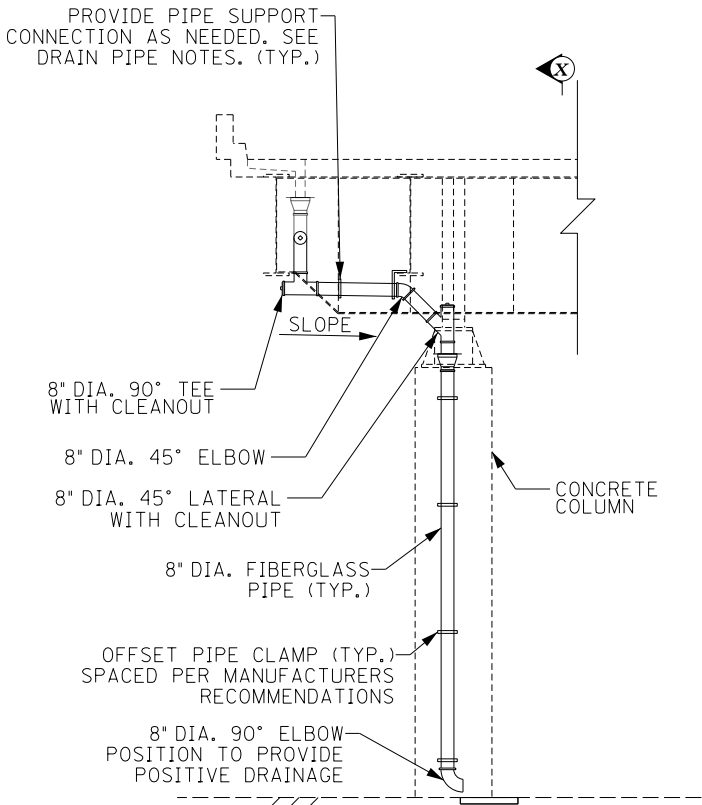
SECTION X-X

LONGITUDINAL SECTION  
PIER 51 (W.B.)  
(LOOKING NORTH)



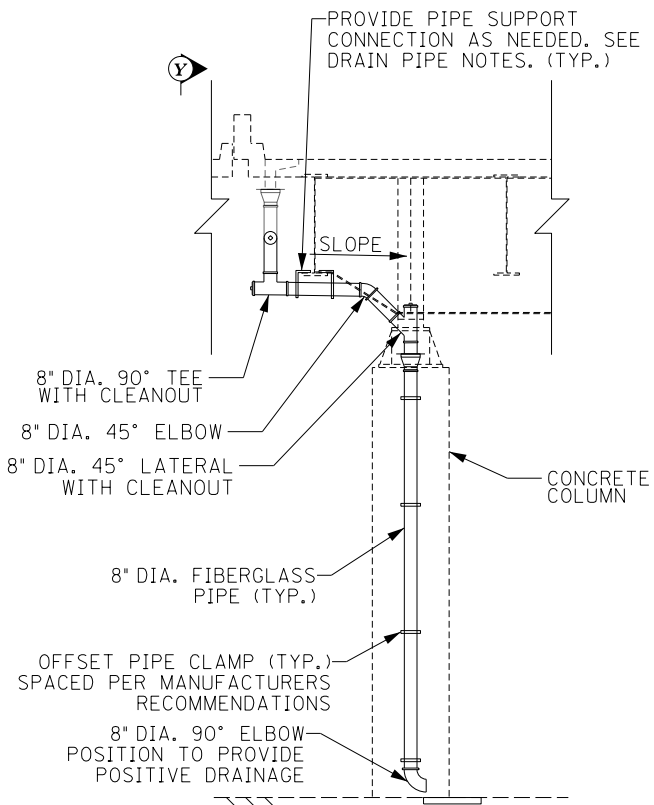
SECTION Y-Y

LONGITUDINAL SECTION  
PIER 51 (E.B.)  
(LOOKING SOUTH)



DRAINAGE DETAIL – ELEVATION

TRANSVERSE SECTION  
PIER 51 (W.B.)  
(LOOKING EAST)



DRAINAGE DETAIL – ELEVATION

TRANSVERSE SECTION  
PIER 51 (E.B.)  
(LOOKING EAST)

ITEM NUMBER

5-10016

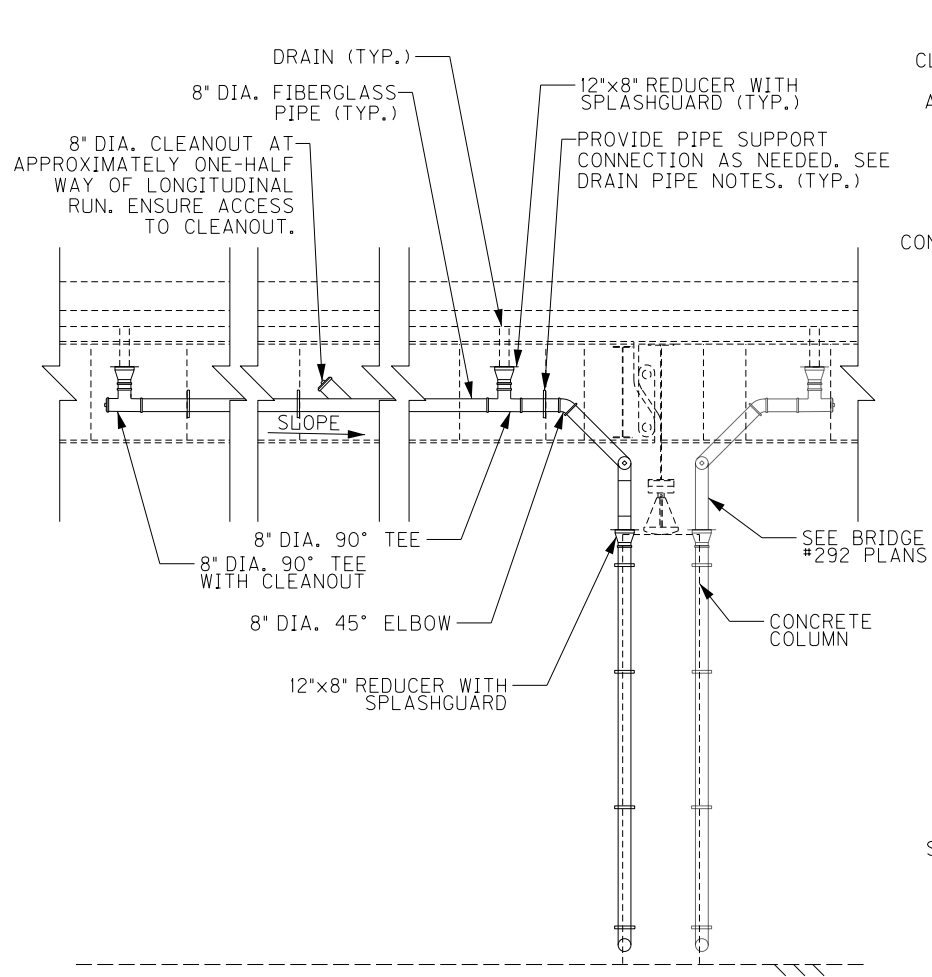
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| REVISION   |  | DATE  |  |
| DATE: FEB 2021                                     |  | CHECKED BY  |  |
| DESIGNED BY: PDO                                   |  | DMB   |  |
| DETAILED BY: PDO                                   |  | DMB   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>STR. NO. 056B00293N   |  |
| 293 DRAINAGE DETAILS – 11                          |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| Michael Baker<br>INTERNATIONAL                     |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | D49   |  |
|  |  | DRAWING NO.<br>28870  |  |



FILE NAME:  
DETAILS.293.DGN

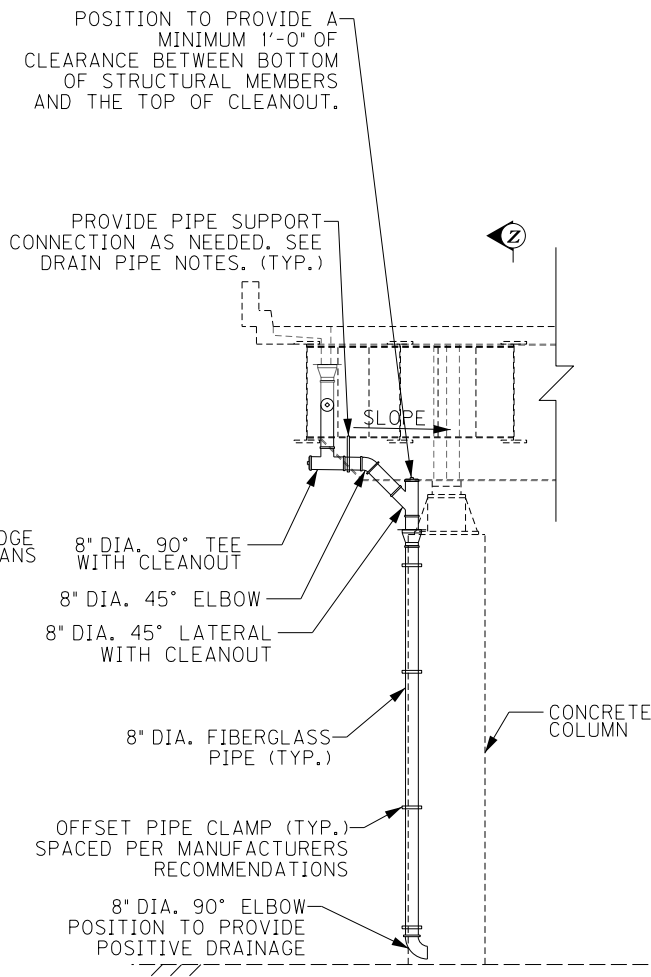
USER: Nicholas.Allen  
DATE PLOTTED: July 16, 2020

OpenRoads Designer v10.13.2.2 E-SHEET NAME: S23464 020



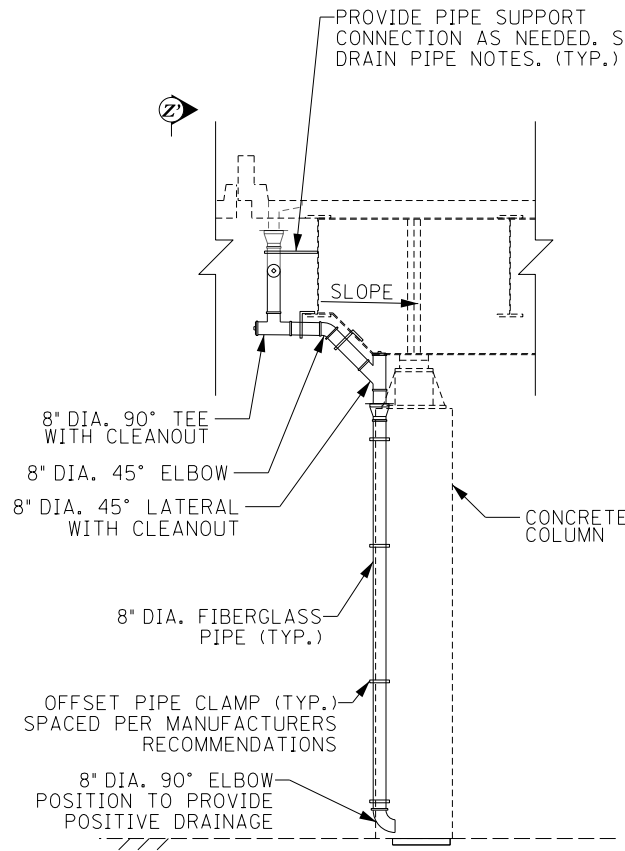
### SECTION Z-Z

LONGITUDINAL SECTION  
PIER 55 (W.B.)  
(LOOKING NORTH)



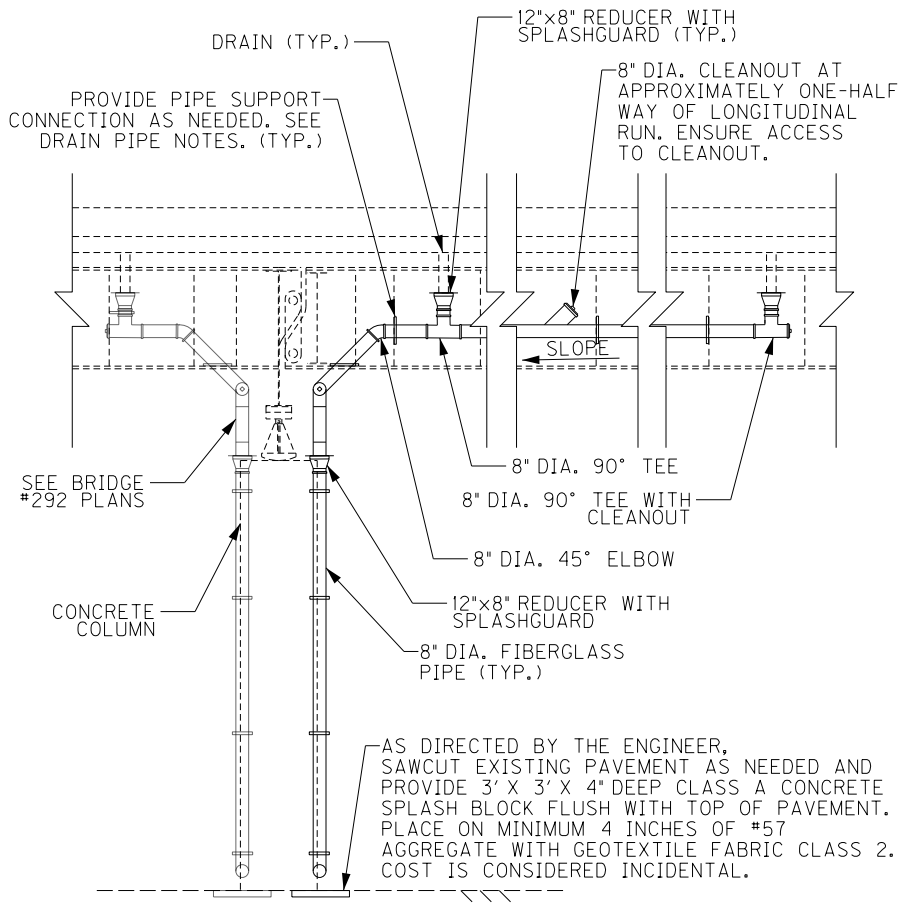
### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 55 (W.B.)  
(LOOKING EAST)



### DRAINAGE DETAIL - ELEVATION

TRANSVERSE SECTION  
PIER 55 (E.B.)  
(LOOKING EAST)



### SECTION Z'-Z'

LONGITUDINAL SECTION  
PIER 55 (E.B.)  
(LOOKING SOUTH)

|   |  |                                 |  |
|---|--|---------------------------------|--|
|   |  |                                 |  |
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|   |  |                                 |  |
| REVISION  |  | DATE                            |  |
| DATE: FEB 2021  |  | CHECKED BY                      |  |
| DESIGNED BY: PDO  |  | DMB                             |  |
| DETAILED BY: PDO  |  | DMB                             |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS  |  |                                 |  |
| COUNTY<br>JEFFERSON   |  |                                 |  |
| ROUTE<br>I-64   |  | CROSSING<br>STR. NO. 056B00293N |  |
| 293 DRAINAGE DETAILS – 12   |  |                                 |  |
| PREPARED BY   |  | SHEET NO.                       |  |
| Michael Baker<br>INTERNATIONAL  |  | D50<br>DRAWING NO.<br>28870     |  |
| 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |                                 |  |

C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER@MBAKERINTL.COM

FILE NAME:

C:\USERS\MARY.JO.DWYER\APPDATA\LOCAL BENTLEY\PROJECTWISE\WORKINGDIR\MB-US-PW-03\MARY.JO.DWYER@MBAKERINTL.COM

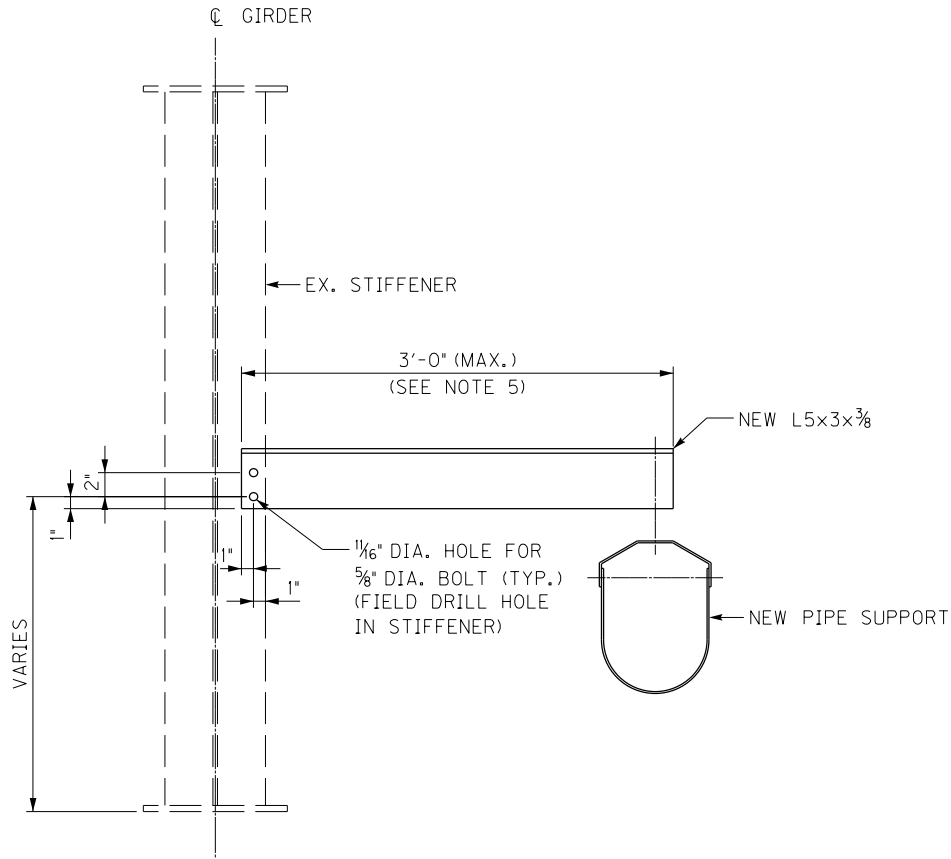
USER: MaryJo.Dwyer

DATE PLOTTED: November 29, 2023

E-SHEET NAME: S23464 020

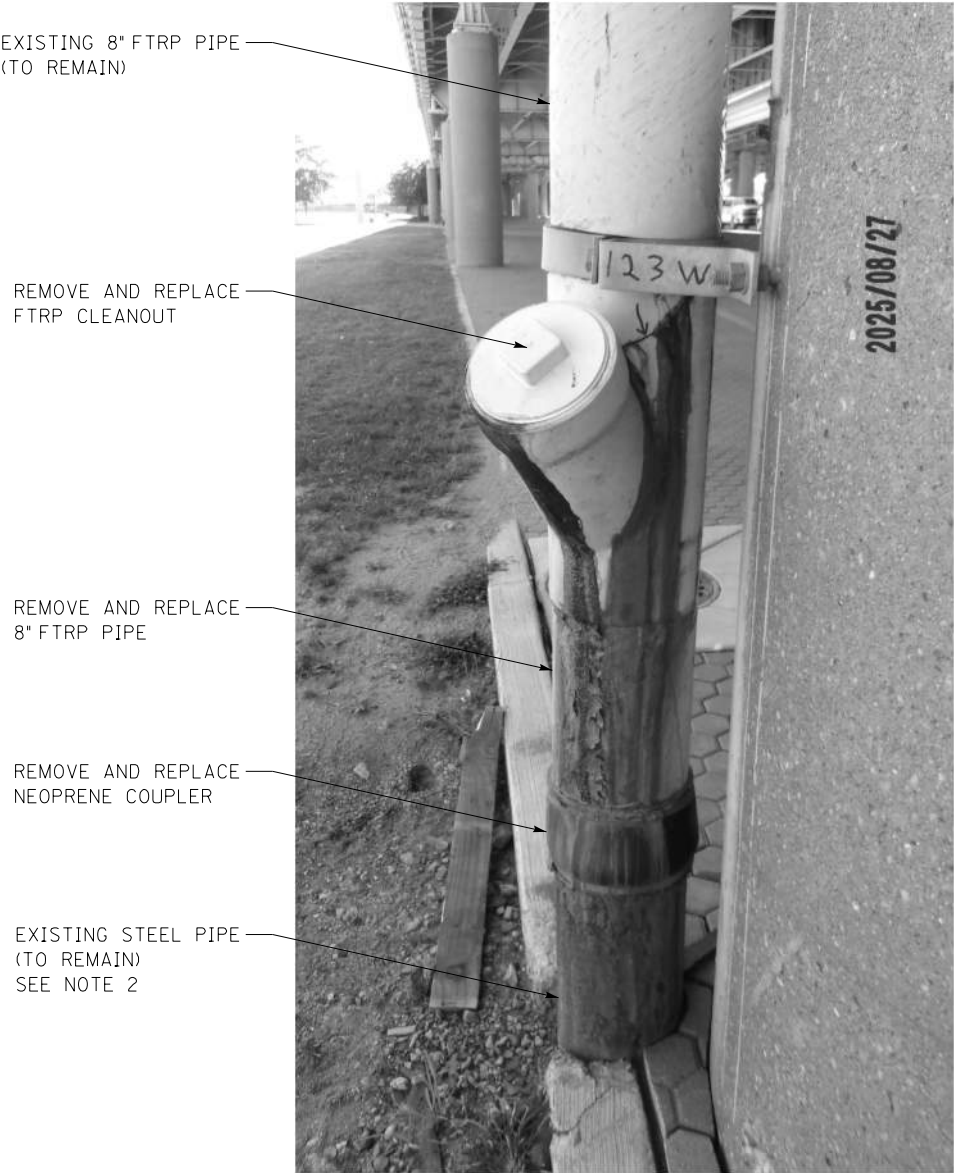
MicroStation v10.17.01.58

PROPOSED PIPE SUPPORT BRACKET



NOTES

1. FOR FIBERGLASS DRAIN PIPE SUPPORT BRACKET LOCATIONS, SEE DRAINAGE DETAIL SHEETS.
2. STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 (ASTM A709), GRADE 36. CONTRACTOR HAS THE OPTION TO REPLACE ASTM A709 GRADE 36 STEEL WITH ASTM GRADE 50 AT NO ADDITIONAL COST TO THE DEPARTMENT.
3. BOLTS SHALL BE 5/8" DIAMETER GALVANIZED F3125 GRADE A325 HIGH STRENGTH BOLTS.
4. FOR ADDITIONAL FIBERGLASS DRAIN PIPE NOTES, SEE GENERAL NOTE SHEET NO. S6.
5. ANGLE MAY BE CUT SHORTER AS NEEDED.
6. USE LOCTITE THREADLOCKER BLUE 242 OR APPROVED EQUAL ON THE DRAINAGE SUPPORT HANGERS TO PREVENT THE NUTS FROM LOOSENING DUE TO VIBRATION, AS DIRECTED BY THE ENGINEER.



DRAIN PIPE REPAIR AT PIER 123W

PRESTON TO 2ND STREET (B142)

NOTES FOR DRAIN PIPE REPAIR

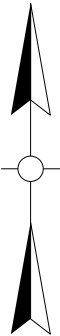
1. SEE SHEET NO. S14 FOR B142 LAYOUT.
2. SEE SHEET NO. S6 FOR "CLEAN UNDERGROUND PIPING" NOTE.

ITEM NUMBER

5-10016

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|--|--|---|--|
|  |  |   |  |
|  |  |   |  |
|  |  |   |  |
| REVISION   |  | DATE  |  |
| DATE: AUGUST 2025                                  |  | CHECKED BY  |  |
| DESIGNED BY: MJ DWYER                              |  | M BARON   |  |
| DETAILED BY: MJ DWYER                              |  | M BARON   |  |
| Commonwealth of Kentucky<br>DEPARTMENT OF HIGHWAYS |  |   |  |
| COUNTY<br>JEFFERSON                                |  |   |  |
| ROUTE<br>I-64                                      |  | CROSSING<br>K & I T RR TO PRESTON STREET  |  |
| DRAIN PIPE SUPPORT BRACKET                         |  |   |  |
| PREPARED BY  |  | SHEET NO.   |  |
| <div>Michael Baker</div> INTERNATIONAL             |  | 1650 Lyndon Farm Court<br>Louisville, KY 40223<br>Phone: (502) 339-3557<br>MBAKERINTL.COM |  |
|  |  | D51   |  |
|  |  | DRAWING NO.<br>28870  |  |

| COUNTY OF | ITEM NO. | SHEET NO. |
|-----------|----------|-----------|
| JEFFERSON | 5-10016  | R1        |

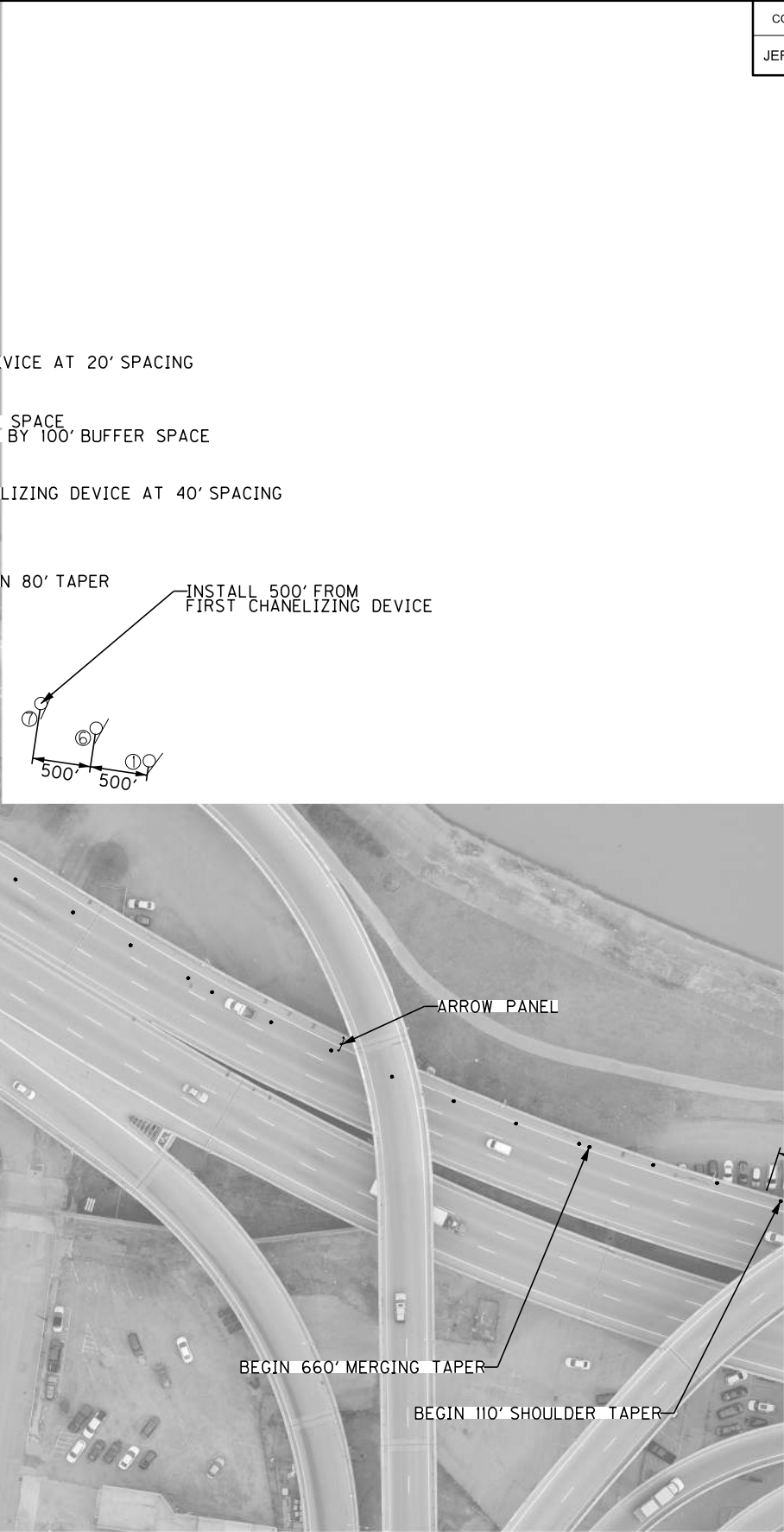


FILE NAME: SHT\_MOT\_LAYOUT2.DGN

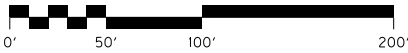
USER: Nicholas Allen  
DATE PLOTTED:

E-SHEET NAME:

OpenRoads Designer v10.13.2.2



- |                         |                          |                          |                         |                         |                           |                           |
|-------------------------|--------------------------|--------------------------|-------------------------|-------------------------|---------------------------|---------------------------|
| ①<br>W20-1<br>(48 x 48) | ②<br>W20-5R<br>(48 x 48) | ③<br>W20-5R<br>(48 x 48) | ④<br>W4-2R<br>(48 x 48) | ⑤<br>G20-2<br>(48 x 24) | ⑥<br>W21-5bL<br>(48 x 48) | ⑦<br>W21-5aL<br>(48 x 48) |
|                         |                          |                          |                         |                         |                           |                           |



SCALE: 1"= 50'

BRIDGE 293  
MAINTENANCE OF TRAFFIC  
PIER 34W LANE CLOSURE

| COUNTY OF | ITEM NO. | SHEET NO. |
|-----------|----------|-----------|
| JEFFERSON | 5-10016  | R2        |

①  
W20-1  
(48 x 48)

②  
W20-5L  
(48 x 48)

③  
W20-5L  
(48 x 48)

④  
W4-2L  
(48 x 48)

⑤  
G20-2  
(48 x 24)

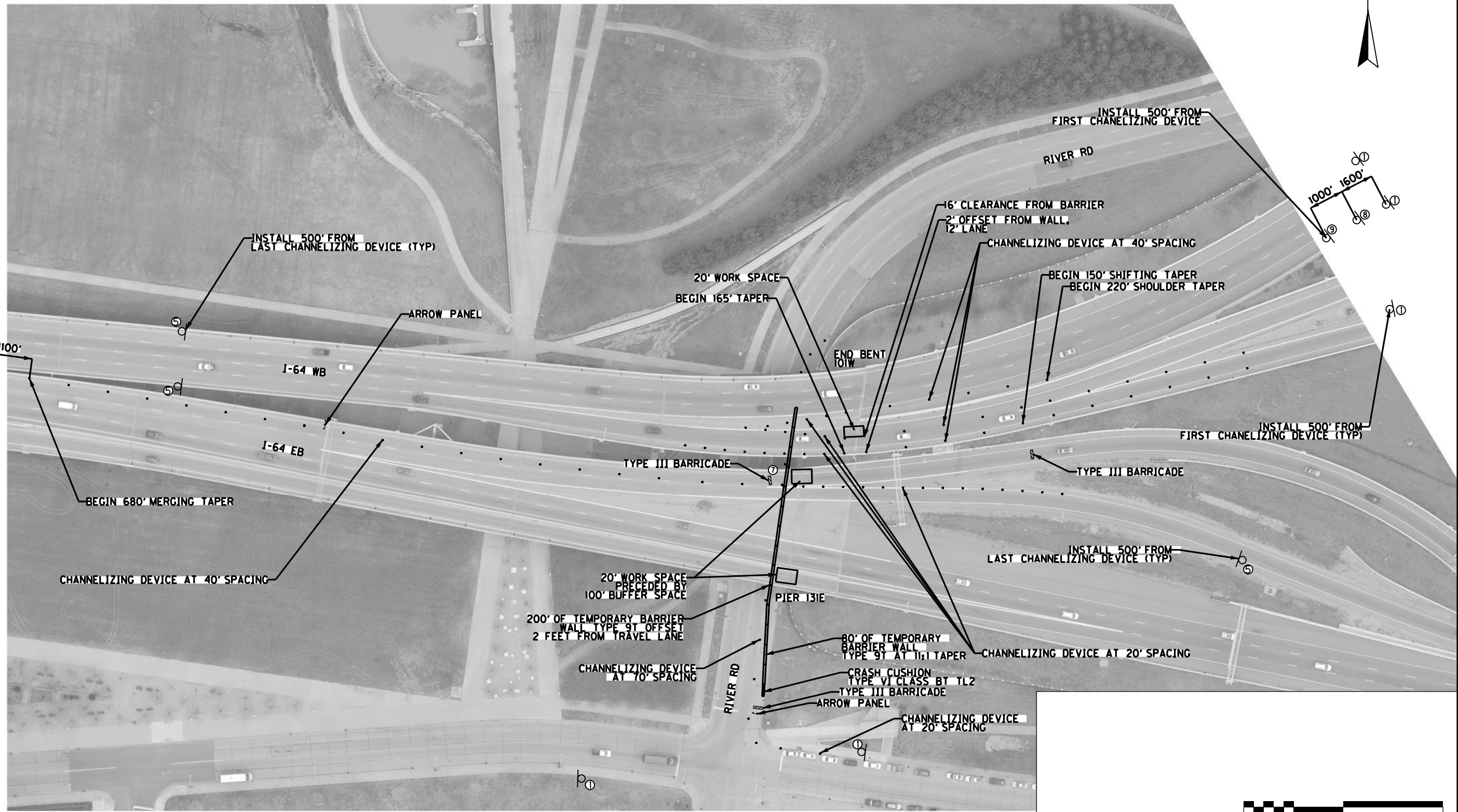
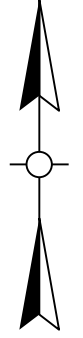
⑦  
E5-2a  
(48 x 36)

⑧  
W21-5bL  
(48 x 48)

⑨  
W21-5aL  
(48 x 48)

⑪  
W9-2L  
(48 x 48)

⑫  
R3-7R  
(30 x 30)



NOTE: TEMPORARY BARRIER WALL SHOWN ON RIVER ROAD IS FOR WORK OCCURING AT PIER 131E GIRDER P, PIER 131E GIRDER W, AND END BENT 101W.

BRIDGE 142  
MAINTENANCE OF TRAFFIC  
PIER 131E AND END BENT 101W LANE CLOSURES  
SCALE: 1"= 50'

FILE NAME: SHT\_MOT\_LAYOUT1.DGN

USER: Nicholas Allen  
DATE PLOTTED: June 4, 2025

E-SHEET NAME:

MicroStation V10.17.02.61