

BRIDGE NO: BEL-70-2165  
 SFN: 0704830  
 BRIDGE DESCRIPTION: CR-214 OVER I.R. 70



CALCULATED BY: AMR  
 CHECKED BY: JZ

DATE: 05/19/26  
 DATE: 05/19/26

### ESTIMATED QUANTITIES

| ITEM                                                                                                                                                                                                                                     | ITEM EXT. | DESCRIPTION                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------|
| ITEM 201                                                                                                                                                                                                                                 | 11001     | CLEARING AND GRUBBING, AS PER PLAN                            |
| Total Quantity = LS                                                                                                                                                                                                                      |           |                                                               |
| ITEM 202                                                                                                                                                                                                                                 | 11203     | PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN |
| Total Quantity = LS                                                                                                                                                                                                                      |           |                                                               |
| ITEM 202                                                                                                                                                                                                                                 | 22900     | APPROACH SLAB REMOVED                                         |
| Rear Area = 771.50 sq ft<br>Forward Area = 782.29 sq ft<br><br>Total Quantity = 173 sq yd                                                                                                                                                |           |                                                               |
| ITEM 202                                                                                                                                                                                                                                 | 23500     | WEARING COURSE REMOVED                                        |
| Length = 194.03 ft<br>Width = 30.83 ft<br><br>Total Quantity = 665 sq yd                                                                                                                                                                 |           |                                                               |
| ITEM 407                                                                                                                                                                                                                                 | 10000     | TACK COAT                                                     |
| Deck Area = 664.73 sq yd      Application Rate      Volume<br>0.08 gal/sy      53.18 gal<br><br>Approach Slab Area = 172.64 sq yd      0.08 gal/sy      13.81 gal<br><br>Number of Applications = 2 each<br><br>Total Quantity = 134 gal |           |                                                               |
| ITEM 441                                                                                                                                                                                                                                 | 10100     | ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG70-22M      |
| Deck Area = 5967.00 sq ft      Asphalt Thickness      Volume<br>0.21 ft      46 cu yd<br><br>Total Quantity = 46 cu yd                                                                                                                   |           |                                                               |
| ITEM 509                                                                                                                                                                                                                                 | 10000     | EPOXY COATED STEEL REINFORCEMENT                              |
| Abutments = 349 lb<br>Superstructure = 1074 lb<br><br>Total Quantity = 1423 lb                                                                                                                                                           |           |                                                               |

|                          |       |                                                                   |         |             |                |            |
|--------------------------|-------|-------------------------------------------------------------------|---------|-------------|----------------|------------|
| ITEM 509                 | 20001 | CONCRETE REINFORCEMENT, REPLACEMENT OF REINFORCEMENT, AS PER PLAN |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
|                          |       | Abutments                                                         | Length  | Number      | Weight         |            |
|                          |       | #5 Railing Bar                                                    | 1.25 ft | 20 each     | 26.08 lb       |            |
|                          |       | #6 Bar                                                            | 2.75 ft | 32 each     | 123.38 lb      |            |
|                          |       | #8 Bar                                                            | 3.00 ft | 21 each     | 168.21 lb      |            |
| Abutment Total =         |       |                                                                   |         |             | 317.66 lb      |            |
|                          |       |                                                                   |         |             |                |            |
|                          |       | Superstructure                                                    | Length  | Number      | Weight         |            |
|                          |       | #5 Railing Bar                                                    | 2.45 ft | 22 each     | 56.22 lb       |            |
|                          |       | #5 Bar                                                            | 2.45 ft | 51 each     | 175.18 lb      |            |
| Superstructure Total =   |       |                                                                   |         |             | 231.40 lb      |            |
|                          |       |                                                                   |         |             |                |            |
| Total Quantity = 549 lb  |       |                                                                   |         |             |                |            |
| ITEM 510                 | 10000 | DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT                     |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
| Total Quantity = 16 each |       |                                                                   |         |             |                |            |
| ITEM 511                 | 34444 | CLASS QC2 CONCRETE, BRIDGE DECK                                   |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
| Plan Area = 180.22 sq ft |       |                                                                   |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
| Thickness = 0.67 ft      |       |                                                                   |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
| Total Quantity = 5 cu yd |       |                                                                   |         |             |                |            |
| ITEM 511                 | 34448 | CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)                         |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
| Parapet Area = 3.51 ft   |       |                                                                   |         |             |                |            |
| WW1 & Deck = 4.07 ft     |       |                                                                   |         |             |                |            |
| WW2 & Deck = 4.06 ft     |       |                                                                   |         |             |                |            |
| WW3 & Deck = 4.07 ft     |       |                                                                   |         |             |                |            |
| WW4 & Deck = 4.06 ft     |       |                                                                   |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
| Total Quantity = 2 cu yd |       |                                                                   |         |             |                |            |
| ITEM 511                 | 45710 | CLASS QC1 CONCRETE, ABUTMENT                                      |         |             |                |            |
|                          |       |                                                                   |         |             |                |            |
|                          |       | Backwalls                                                         | R.A.    | Plan Area   | Average Height | Volume     |
|                          |       |                                                                   |         | 43.18 sq ft | 1.37 ft        | 59.15 ft^3 |
|                          |       |                                                                   | F.A.    | 43.18 sq ft | 1.37 ft        | 59.15 ft^3 |
|                          |       |                                                                   |         |             |                |            |
| Total Quantity = 5 cu yd |       |                                                                   |         |             |                |            |

|                                  |                       |                                               |                |               |  |
|----------------------------------|-----------------------|-----------------------------------------------|----------------|---------------|--|
| ITEM 512                         | 10100                 | SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) |                |               |  |
| Superstructure                   |                       |                                               |                |               |  |
|                                  | Parapets              | Perimeter                                     | Length         | Area          |  |
|                                  |                       | 6.86 ft                                       | 196.57 ft      | 2696.94 sq ft |  |
|                                  | Left Overhang         | 2.42 ft                                       | 196.57 ft      | 475.03 sq ft  |  |
|                                  | Right Overhang        | 2.42 ft                                       | 196.57 ft      | 475.03 sq ft  |  |
| Superstructure Total = 405 sq yd |                       |                                               |                |               |  |
| Piers                            |                       |                                               |                |               |  |
|                                  | Columns               | Perimeter                                     | Average Height | Area          |  |
|                                  |                       | 9.42 sq ft                                    | 18             | 1017.88 sq ft |  |
|                                  | Caps                  | Perimeter                                     | Length         | Area          |  |
|                                  |                       | 10.67 ft                                      | 33.48 ft       | 1071.27 sq ft |  |
|                                  | Wrapped Cap           | 10.67 ft                                      | 9.33 ft        | 99.59 sq ft   |  |
| Pier Total = 221 sq yd           |                       |                                               |                |               |  |
| Abutments                        |                       |                                               |                |               |  |
|                                  | Face and Seat         | Height                                        | Length         | Area          |  |
|                                  |                       | 6.00 ft                                       | 69.08 ft       | 414.50 sq ft  |  |
|                                  | Wingwalls and Parapet | 8.36 ft                                       | 48.00 ft       | 401.28 sq ft  |  |
| Abutment Total = 91 sq yd        |                       |                                               |                |               |  |
| Total Quantity = 717 sq yd       |                       |                                               |                |               |  |

|                           |           |                                    |             |  |  |
|---------------------------|-----------|------------------------------------|-------------|--|--|
| ITEM 512                  | 71500     | SPECIAL - URETHANE TOP COAT SEALER |             |  |  |
| Column                    |           |                                    |             |  |  |
|                           | Perimeter | Height                             | Area        |  |  |
|                           | 9.42 ft   | 13.16 ft                           | 124.03 ft^2 |  |  |
| Cap                       |           |                                    |             |  |  |
|                           | Perimeter | Length                             | Area        |  |  |
|                           | 10.67 ft  | 9.33 ft                            | 99.59 ft^2  |  |  |
| Total Quantity = 25 sq yd |           |                                    |             |  |  |

|                         |       |                                   |  |  |  |
|-------------------------|-------|-----------------------------------|--|--|--|
| ITEM 513                | 21001 | TRIMMING OF BEAM END, AS PER PLAN |  |  |  |
| Total Quantity = 5 each |       |                                   |  |  |  |

|                        |         |                                             |  |  |  |
|------------------------|---------|---------------------------------------------|--|--|--|
| ITEM 513               | 21500   | REPLACEMENT OF DETERIORATED END CROSSFRAMES |  |  |  |
| L4X4X5/16              |         |                                             |  |  |  |
|                        | Length  |                                             |  |  |  |
|                        | 7.62 ft |                                             |  |  |  |
| Total Quantity = 62 lb |         |                                             |  |  |  |

|                             |           |                                                  |        |               |  |
|-----------------------------|-----------|--------------------------------------------------|--------|---------------|--|
| ITEM 514                    | 00050     | SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL |        |               |  |
| 24WF94                      |           |                                                  |        |               |  |
|                             | Perimeter | Length                                           | Number | Total Area    |  |
|                             | 6.32 ft   | 72.00 ft                                         | 5      | 2274.30 sq ft |  |
| 24WF145                     |           |                                                  |        |               |  |
|                             | 7.34 ft   | 120.00 ft                                        | 5      | 4405.00 sq ft |  |
| L3x3x5/16                   |           |                                                  |        |               |  |
|                             | 1.00 ft   | 23.00 ft                                         | 52     | 1196.00 sq ft |  |
| L4x4x5/16                   |           |                                                  |        |               |  |
|                             | 1.33 ft   | 16.23 ft                                         | 8      | 172.89 sq ft  |  |
| Total Quantity = 8048 sq ft |           |                                                  |        |               |  |

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| ITEM 514                                                                                                                                                                                                                                                                                                                          | 00056 | FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT      |
| Total Quantity = 8048 sq ft                                                                                                                                                                                                                                                                                                       |       |                                                              |
| ITEM 514                                                                                                                                                                                                                                                                                                                          | 00060 | FIELD PAINTING EXISTING STRUCTURAL STEEL, INTERMEDIATE COAT  |
| Total Quantity = 8048 sq ft                                                                                                                                                                                                                                                                                                       |       |                                                              |
| ITEM 514                                                                                                                                                                                                                                                                                                                          | 00066 | FIELD PAINTING EXISTING STRUCTURAL STEEL, FINISH COAT        |
| Total Quantity = 8048 sq ft                                                                                                                                                                                                                                                                                                       |       |                                                              |
| ITEM 514                                                                                                                                                                                                                                                                                                                          | 00504 | GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL   |
| Total Quantity = 16 mnhr                                                                                                                                                                                                                                                                                                          |       |                                                              |
| ITEM 514                                                                                                                                                                                                                                                                                                                          | 10000 | FINAL INSPECTION REPAIR                                      |
| Total Quantity = 5 each                                                                                                                                                                                                                                                                                                           |       |                                                              |
| ITEM 516                                                                                                                                                                                                                                                                                                                          | 11210 | STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL  |
| <div> <div> <div>Length</div> <div>Rear 34.37 ft</div> <div>Forward 34.37 ft</div> </div> <div>Total Quantity = 69 ft</div> </div>                                                                                                                                                                                                |       |                                                              |
| ITEM 516                                                                                                                                                                                                                                                                                                                          | 13600 | 1" PREFORMED EXPANSION JOINT FILLER                          |
| <div> <div> <div>Length</div> <div>Rear Approach Slab 21.44 ft</div> <div>Forward Approach Slab 21.44 ft</div> <div>Thickness 1.25 ft</div> </div> <div>Total Quantity = 54 sq ft</div> </div>                                                                                                                                    |       |                                                              |
| ITEM 516                                                                                                                                                                                                                                                                                                                          | 45304 | REFURBISH BEARING DEVICE                                     |
| Total Quantity = 15 each                                                                                                                                                                                                                                                                                                          |       |                                                              |
| ITEM 516                                                                                                                                                                                                                                                                                                                          | 46900 | BEARING DEVICE MISC.: SLIDING PLATE BEARING, ABUTMENT        |
| Total Quantity = 10 each                                                                                                                                                                                                                                                                                                          |       |                                                              |
| ITEM 516                                                                                                                                                                                                                                                                                                                          | 47001 | JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN |
| Total Quantity = LS                                                                                                                                                                                                                                                                                                               |       |                                                              |
| ITEM 519                                                                                                                                                                                                                                                                                                                          | 00100 | SPECIAL - COMPOSITE FIBER WRAP SYSTEM                        |
| <div> <div> <div> <div>Perimeter</div> <div>Pier 2 Columns 9.42 ft</div> <div>Height 14.00 ft</div> <div>Number 1</div> <div>Area 131.95 sq ft</div> </div> <div> <div>Perimeter</div> <div>Caps 13.83 ft</div> <div>Length 9.33 ft</div> <div>Area 129.12 sq ft</div> </div> </div> <div>Total Quantity = 262 sq ft</div> </div> |       |                                                              |

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| ITEM 519                                                                                                                                                                       | 11101 | PATCHING CONCRETE STRUCTURE, AS PER PLAN                  |
| <div> <div>Area</div> <div> <div>Piers</div> <div>15.00 sq ft</div> </div> <div> <div>Parapets</div> <div>30.00 sq ft</div> </div> </div> <div>Total Quantity = 45 sq ft</div> |       |                                                           |
| ITEM 526                                                                                                                                                                       | 25001 | REINFORCED CONCRETE APPROACH SLABS (T = 15"), AS PER PLAN |
| <div> <div>Rear Area = 771.50 ft</div> <div>Forward Area = 782.29 ft</div> </div> <div>Total Quantity = 173 sq yd</div>                                                        |       |                                                           |
| ITEM 526                                                                                                                                                                       | 90010 | TYPE A INSTALLATION                                       |
| <div> <div>Rear = 31.33 ft</div> <div>Forward = 33.98 ft</div> </div> <div>Total Quantity = 66 ft</div>                                                                        |       |                                                           |
| ITEM 607                                                                                                                                                                       | 39900 | VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC       |
| <div>Total Quantity = 348 ft</div>                                                                                                                                             |       |                                                           |
| ITEM 625                                                                                                                                                                       | 33000 | STRUCTURE GROUNDING SYSTEM                                |
| <div>Total Quantity = 1 each</div>                                                                                                                                             |       |                                                           |