

- ① Quantity includes provision for laps required in longitudinal reinforcing as follows:  
65' thru 100' Spans - 1 lap
- ② Quantity includes provision for laps required in longitudinal reinforcing as follows:  
65' Span - 1 lap  
70' thru 100' Spans - 1 1/2 laps  
Laps account for adjacent span combinations and are approximate. The Department will not pay for additional quantities of reinforcing steel in excess of the quantities shown in the plans.
- ③ At abutments, provide and install Fixed Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of structural steel per span for the Fixed Bearing Assemblies. Include all costs associated with providing and installing the Anchor Plate and Anchor Bars, including all material, labor, equipment and incidentals necessary to complete the work shown in the plans in the contract unit price of FIXED BEARING ASSEMBLIES.
- ④ At all piers, provide and install Expansion Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of stainless steel per span for the Expansion Bearing Assemblies. Include all costs associated with providing and installing the Elastomeric Pads, Anchor Plates, Contact Plates, Anchor Bars and Anchor Bolts, Nuts and Washers, including all material, labor, equipment and incidentals necessary to complete the work shown in the plans in the contract unit price of EXPANSION BEARING ASSEMBLIES.
- ⑤ Provide and install Elastomeric Pads between the top surface of the Beams and the bottom surface of the Deck Slab. The Elastomeric Pads are to be of the size and shape as detailed in the plans and located at each Beam end above the Piers. Include all costs associated with providing and installing the Elastomeric Pads above the Beams, including all material, labor, equipment, and incidentals necessary to complete the work as shown in the plans, in the contract unit price of ELASTOMERIC BEARING PADS.

| BEARING ASSEMBLY<br>STAINLESS/STRUCTURAL STEEL QUANTITIES<br>PER SPAN |   |   |   |
|---|---|---|---|
| ABUTMENT<br>TO<br>ABUTMENT  | ABUTMENT<br>TO<br>PIER                  |   | PIER<br>TO<br>PIER                          |
| FIXED<br>BEARING<br>ASSEMBLIES<br>(LB.)                               | FIXED<br>BEARING<br>ASSEMBLIES<br>(LB.) | EXPANSION<br>BEARING<br>ASSEMBLIES<br>(LB.) | EXPANSION<br>BEARING<br>ASSEMBLIES<br>(LB.) |
| 700   | 350                                     | 790   | 1,580                                       |

| SUPERSTRUCTURE QUANTITIES PER SPAN |   |                               |                                     |                              |                                   |   |                     |   |                     |   |
|------------------------------------|---|-------------------------------|-------------------------------------|------------------------------|-----------------------------------|---|---------------------|---|---------------------|---|
| SPAN                               | ABUTMENT TO ABUTMENT                                    |                               |                                     |                              |                                   |   |                     |   |                     |   |
|                                    | PRESTRESSED<br>CONCRETE<br>BEAMS<br>(TYPE IV)<br>(L.F.) | SAW-CUT<br>GROOVING<br>(S.Y.) | CONCRETE<br>RAIL<br>(TR4)<br>(L.F.) | STRUCTURAL<br>STEEL<br>(LB.) | CLASS<br>AA<br>CONCRETE<br>(C.Y.) | EPOXY COATED<br>REINFORCING<br>STEEL<br>(LB.) ① |                     | WATER REPELLENT<br>(VISUALLY INSPECTED)<br>(S.Y.) |                     | FIXED<br>BEARING<br>ASSEMBLY<br>(EACH)<br>③ |
|                                    |   |                               |                                     |                              |                                   | TR4 W/<br>OPENINGS                              | TR4 W/O<br>OPENINGS | TR4 W/<br>OPENINGS                                | TR4 W/O<br>OPENINGS |   |
| 65'                                | 259   | 291.1                         | 131.0                               | 150                          | 117.3                             | 19,400  | 19,990              | 272   | 267                 | 8   |
| 70'                                | 279   | 313.3                         | 141.0                               | 150                          | 122.7                             | 20,630  | 21,210              | 289   | 285                 | 8   |
| 75'                                | 299   | 335.6                         | 151.0                               | 150                          | 128.2                             | 21,750  | 22,440              | 307   | 302                 | 8   |
| 80'                                | 319   | 357.8                         | 161.0                               | 150                          | 133.7                             | 22,980  | 23,660              | 324   | 319                 | 8   |
| 85'                                | 339   | 380.0                         | 171.0                               | 150                          | 139.2                             | 24,090  | 24,890              | 342   | 337                 | 8   |
| 90'                                | 359   | 402.2                         | 181.0                               | 150                          | 144.7                             | 25,330  | 26,110              | 360   | 354                 | 8   |
| 95'                                | 379   | 424.4                         | 191.0                               | 150                          | 150.1                             | 26,440  | 27,340              | 378   | 371                 | 8   |
| 100'                               | 399   | 446.7                         | 201.0                               | 150                          | 155.6                             | 27,680  | 28,560              | 395   | 388                 | 8   |

| SUPERSTRUCTURE QUANTITIES PER SPAN |   |                               |                                     |                              |                                   |   |                     |   |                     |   |   |   |
|------------------------------------|---|-------------------------------|-------------------------------------|------------------------------|-----------------------------------|---|---------------------|---|---------------------|---|---|---|
| SPAN                               | ABUTMENT TO PIER  |                               |                                     |                              |                                   |   |                     |   |                     |   |   |   |
|                                    | PRESTRESSED<br>CONCRETE<br>BEAMS<br>(TYPE IV)<br>(L.F.) | SAW-CUT<br>GROOVING<br>(S.Y.) | CONCRETE<br>RAIL<br>(TR4)<br>(L.F.) | STRUCTURAL<br>STEEL<br>(LB.) | CLASS<br>AA<br>CONCRETE<br>(C.Y.) | EPOXY COATED<br>REINFORCING<br>STEEL<br>(LB.) ② |                     | WATER REPELLENT<br>(VISUALLY INSPECTED)<br>(S.Y.) |                     | FIXED<br>BEARING<br>ASSEMBLY<br>(EACH)<br>③ | EXPANSION<br>BEARING<br>ASSEMBLY<br>(EACH)<br>④ | ELASTOMERIC<br>BEARING<br>PADS<br>(EACH)<br>⑤ |
|                                    |   |                               |                                     |                              |                                   | TR4 W/<br>OPENINGS                              | TR4 W/O<br>OPENINGS | TR4 W/<br>OPENINGS                                | TR4 W/O<br>OPENINGS |   |   |   |
| 65'                                | 259   | 294.4                         | 130.5                               | 300                          | 97.0                              | 19,270  | 19,750              | 251   | 246                 | 4   | 4   | 4   |
| 70'                                | 279   | 316.7                         | 140.5                               | 300                          | 102.5                             | 20,580  | 21,050              | 268   | 264                 | 4   | 4   | 4   |
| 75'                                | 299   | 338.9                         | 150.5                               | 300                          | 108.0                             | 21,700  | 22,270              | 286   | 281                 | 4   | 4   | 4   |
| 80'                                | 319   | 361.1                         | 160.5                               | 300                          | 113.5                             | 22,930  | 23,500              | 303   | 298                 | 4   | 4   | 4   |
| 85'                                | 339   | 383.3                         | 170.5                               | 300                          | 118.9                             | 24,040  | 24,720              | 321   | 315                 | 4   | 4   | 4   |
| 90'                                | 359   | 405.6                         | 180.5                               | 300                          | 124.4                             | 25,280  | 25,950              | 339   | 333                 | 4   | 4   | 4   |
| 95'                                | 379   | 427.8                         | 190.5                               | 300                          | 129.9                             | 26,390  | 27,170              | 357   | 350                 | 4   | 4   | 4   |
| 100'                               | 399   | 450.0                         | 200.5                               | 300                          | 135.4                             | 27,620  | 28,400              | 374   | 367                 | 4   | 4   | 4   |

| SUPERSTRUCTURE QUANTITIES PER SPAN |   |                               |                                     |                              |                                   |   |                     |   |                     |   |   |
|------------------------------------|---|-------------------------------|-------------------------------------|------------------------------|-----------------------------------|---|---------------------|---|---------------------|---|---|
| SPAN                               | PIER TO PIER  |                               |                                     |                              |                                   |   |                     |   |                     |   |   |
|                                    | PRESTRESSED<br>CONCRETE<br>BEAMS<br>(TYPE IV)<br>(L.F.) | SAW-CUT<br>GROOVING<br>(S.Y.) | CONCRETE<br>RAIL<br>(TR4)<br>(L.F.) | STRUCTURAL<br>STEEL<br>(LB.) | CLASS<br>AA<br>CONCRETE<br>(C.Y.) | EPOXY COATED<br>REINFORCING<br>STEEL<br>(LB.) ② |                     | WATER REPELLENT<br>(VISUALLY INSPECTED)<br>(S.Y.) |                     | EXPANSION<br>BEARING<br>ASSEMBLY<br>(EACH)<br>④ | ELASTOMERIC<br>BEARING<br>PADS<br>(EACH)<br>⑤ |
|                                    |   |                               |                                     |                              |                                   | TR4 W/<br>OPENINGS                              | TR4 W/O<br>OPENINGS | TR4 W/<br>OPENINGS                                | TR4 W/O<br>OPENINGS |   |   |
| 65'                                | 259   | 288.9                         | 130.0                               | 450                          | 76.8                              | 19,150  | 19,520              | 229   | 225                 | 8   | 8   |
| 70'                                | 279   | 311.1                         | 140.0                               | 450                          | 82.2                              | 20,350  | 20,820              | 247   | 242                 | 8   | 8   |
| 75'                                | 299   | 333.3                         | 150.0                               | 450                          | 87.7                              | 21,580  | 22,050              | 265   | 260                 | 8   | 8   |
| 80'                                | 319   | 355.6                         | 160.0                               | 450                          | 93.2                              | 22,700  | 23,270              | 282   | 277                 | 8   | 8   |
| 85'                                | 339   | 377.8                         | 170.0                               | 450                          | 98.7                              | 23,930  | 24,500              | 300   | 294                 | 8   | 8   |
| 90'                                | 359   | 400.0                         | 180.0                               | 450                          | 104.2                             | 25,040  | 25,720              | 317   | 312                 | 8   | 8   |
| 95'                                | 379   | 422.2                         | 190.0                               | 450                          | 109.6                             | 26,280  | 26,950              | 336   | 329                 | 8   | 8   |
| 100'                               | 399   | 444.4                         | 200.0                               | 450                          | 115.1                             | 27,390  | 28,170              | 353   | 346                 | 8   | 8   |

| CONSTRUCTION JOINT SEAL QUANTITIES |      |              |
|------------------------------------|------|--------------|
| ITEM                               | UNIT | EACH<br>PIER |
| SEALER CRACK PREPARATION           | L.F. | 81.5         |
| SEALER RESIN                       | GAL. | 0.9          |

APPROVED BY BRIDGE ENGINEER *Scott J. Smith* DATE *4/2/10*

OKLAHOMA DEPT. OF TRANSPORTATION  
BRIDGE STANDARD (ENGLISH)  
**SUPERSTRUCTURE QUANTITIES**  
**TYPE IV P.C. BEAMS**  
**INTEGRAL**

2009 SPECIFICATIONS | B40-I-SPR-QUAN-PCB-IV | 03E  
B-209E