

SUPERSTRUCTURE QUANTITIES PER SPAN

| SPAN | ABUTMENT TO FIXED PIER | | | | | | | | | | | ABUTMENT TO EXPANSION PIER | | | | | | | | | | |
|------|--|-------------------------|----------------------------|------------------------|--------------------------|--|------------------|---|------------------|---------------------------------|--|--|-------------------------|----------------------------|------------------------|--------------------------|--|------------------|---|------------------|---------------------------------|-------------------------------------|
| | PRESTRESSED CONCRETE BEAMS (TYPE J) (L.F.) | SAW-CUT GROOVING (S.Y.) | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL ① (LB.) | | WATER REPELLENT (VISUALLY INSPECTED) (S.Y.) | | FIXED BEARING ASSEMBLY (EACH) ③ | FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③ | PRESTRESSED CONCRETE BEAMS (TYPE J) (L.F.) | SAW-CUT GROOVING (S.Y.) | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL ② (LB.) | | WATER REPELLENT (VISUALLY INSPECTED) (S.Y.) | | FIXED BEARING ASSEMBLY (EACH) ③ | EXPANSION BEARING ASSEMBLY (EACH) ③ |
| | | | | | | TR4 W/ OPENINGS | TR4 W/O OPENINGS | TR4 W/ OPENINGS | TR4 W/O OPENINGS | | | | | | | | TR4 W/ OPENINGS | TR4 W/O OPENINGS | TR4 W/ OPENINGS | TR4 W/O OPENINGS | | |
| 95' | 379 | 425.9 | 191.7 | 1,200 | 128.2 | 26,150 | 27,050 | 387 | 381 | 4 | 4 | 379 | 425.9 | 191.7 | 1,200 | 128.1 | 26,270 | 27,080 | 387 | 381 | 4 | 4 |
| 100' | 399 | 448.1 | 201.7 | 1,200 | 133.9 | 27,390 | 28,270 | 407 | 401 | 4 | 4 | 399 | 448.1 | 201.7 | 1,200 | 133.8 | 27,380 | 28,300 | 407 | 401 | 4 | 4 |
| 105' | 419 | 470.4 | 211.7 | 1,200 | 139.6 | 28,500 | 29,500 | 428 | 421 | 4 | 4 | 419 | 470.4 | 211.7 | 1,200 | 139.5 | 28,620 | 29,530 | 427 | 421 | 4 | 4 |
| 110' | 439 | 492.6 | 221.7 | 1,200 | 145.3 | 29,820 | 30,800 | 448 | 441 | 4 | 4 | 439 | 492.6 | 221.7 | 1,200 | 145.2 | 29,730 | 30,750 | 448 | 441 | 4 | 4 |
| 115' | 459 | 514.8 | 231.7 | 1,200 | 151.0 | 30,930 | 32,030 | 469 | 461 | 4 | 4 | 459 | 514.8 | 231.7 | 1,200 | 150.9 | 30,970 | 31,980 | 468 | 461 | 4 | 4 |
| 120' | 479 | 537.0 | 241.7 | 1,200 | 156.7 | 32,160 | 33,250 | 489 | 481 | 4 | 4 | 479 | 537.0 | 241.7 | 1,200 | 156.6 | 32,240 | 33,360 | 489 | 481 | 4 | 4 |
| 125' | 499 | 559.3 | 251.7 | 1,200 | 162.4 | 33,280 | 34,480 | 508 | 501 | 4 | 4 | 499 | 559.3 | 251.7 | 1,200 | 162.3 | 33,470 | 34,590 | 509 | 501 | 4 | 4 |
| 130' | 519 | 581.5 | 261.7 | 1,200 | 168.1 | 34,510 | 35,700 | 528 | 521 | 4 | 4 | 519 | 581.5 | 261.7 | 1,200 | 168.0 | 34,590 | 35,810 | 530 | 521 | 4 | 4 |

SUPERSTRUCTURE QUANTITIES PER SPAN

| SPAN | FIXED PIER TO FIXED PIER | | | | | | | | | | FIXED PIER TO EXPANSION PIER | | | | | | | | | | |
|------|--|-------------------------|----------------------------|------------------------|--------------------------|--|------------------|---|------------------|--|--|-------------------------|----------------------------|------------------------|--------------------------|--|------------------|---|------------------|--|-------------------------------------|
| | PRESTRESSED CONCRETE BEAMS (TYPE J) (L.F.) | SAW-CUT GROOVING (S.Y.) | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL ① (LB.) | | WATER REPELLENT (VISUALLY INSPECTED) (S.Y.) | | FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③ | PRESTRESSED CONCRETE BEAMS (TYPE J) (L.F.) | SAW-CUT GROOVING (S.Y.) | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL ① (LB.) | | WATER REPELLENT (VISUALLY INSPECTED) (S.Y.) | | FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③ | EXPANSION BEARING ASSEMBLY (EACH) ③ |
| | | | | | | TR4 W/ OPENINGS | TR4 W/O OPENINGS | TR4 W/ OPENINGS | TR4 W/O OPENINGS | | | | | | | TR4 W/ OPENINGS | TR4 W/O OPENINGS | TR4 W/ OPENINGS | TR4 W/O OPENINGS | | |
| 95' | 379 | 422.2 | 190.0 | 1,200 | 126.7 | 25,700 | 26,610 | 386 | 380 | 8 | 379 | 422.2 | 190.0 | 1,200 | 126.6 | 25,920 | 26,720 | 386 | 380 | 4 | 4 |
| 100' | 399 | 444.4 | 200.0 | 1,200 | 132.4 | 26,950 | 27,840 | 406 | 400 | 8 | 399 | 444.4 | 200.0 | 1,200 | 132.3 | 27,030 | 27,950 | 406 | 400 | 4 | 4 |
| 105' | 419 | 466.7 | 210.0 | 1,200 | 138.1 | 28,050 | 29,060 | 427 | 420 | 8 | 419 | 466.7 | 210.0 | 1,200 | 138.0 | 28,260 | 29,170 | 426 | 420 | 4 | 4 |
| 110' | 439 | 488.9 | 220.0 | 1,200 | 143.8 | 29,380 | 30,370 | 447 | 440 | 8 | 439 | 488.9 | 220.0 | 1,200 | 143.7 | 29,460 | 30,480 | 447 | 440 | 4 | 4 |
| 115' | 459 | 511.1 | 230.0 | 1,200 | 149.5 | 30,480 | 31,590 | 468 | 460 | 8 | 459 | 511.1 | 230.0 | 1,200 | 149.4 | 30,690 | 31,700 | 467 | 460 | 4 | 4 |
| 120' | 479 | 533.3 | 240.0 | 1,200 | 155.2 | 31,730 | 32,820 | 488 | 480 | 8 | 479 | 533.3 | 240.0 | 1,200 | 155.1 | 31,800 | 32,930 | 488 | 480 | 4 | 4 |
| 125' | 499 | 555.6 | 250.0 | 1,200 | 160.9 | 32,820 | 34,040 | 508 | 500 | 8 | 499 | 555.6 | 250.0 | 1,200 | 160.8 | 33,040 | 34,150 | 508 | 500 | 4 | 4 |
| 130' | 519 | 577.8 | 260.0 | 1,200 | 166.7 | 34,070 | 35,270 | 528 | 520 | 8 | 519 | 577.8 | 260.0 | 1,200 | 166.5 | 34,150 | 35,380 | 529 | 520 | 4 | 4 |

SUPERSTRUCTURE QUANTITIES PER SPAN

| SPAN | EXPANSION PIER TO EXPANSION PIER | | | | | | | | | |
|------|--|-------------------------|----------------------------|------------------------|--------------------------|--|------------------|---|------------------|--|
| | PRESTRESSED CONCRETE BEAMS (TYPE J) (L.F.) | SAW-CUT GROOVING (S.Y.) | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL ② (LB.) | | WATER REPELLENT (VISUALLY INSPECTED) (S.Y.) | | FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③ |
| | | | | | | TR4 W/ OPENINGS | TR4 W/O OPENINGS | TR4 W/ OPENINGS | TR4 W/O OPENINGS | |
| 95' | 379 | 422.2 | 190.0 | 1,200 | 126.5 | 25,900 | 26,760 | 386 | 380 | 8 |
| 100' | 399 | 444.4 | 200.0 | 1,200 | 132.2 | 27,010 | 27,980 | 407 | 400 | 8 |
| 105' | 419 | 466.7 | 210.0 | 1,200 | 137.9 | 28,240 | 29,210 | 427 | 420 | 8 |
| 110' | 439 | 488.9 | 220.0 | 1,200 | 143.6 | 29,360 | 30,430 | 447 | 440 | 8 |
| 115' | 459 | 511.1 | 230.0 | 1,200 | 149.3 | 30,590 | 31,650 | 467 | 460 | 8 |
| 120' | 479 | 533.3 | 240.0 | 1,200 | 155.0 | 31,860 | 33,040 | 488 | 480 | 8 |
| 125' | 499 | 555.6 | 250.0 | 1,200 | 160.7 | 33,100 | 34,260 | 508 | 500 | 8 |
| 130' | 519 | 577.8 | 260.0 | 1,200 | 166.4 | 34,210 | 35,490 | 529 | 520 | 8 |

| BEARING ASSEMBLY STAINLESS STEEL QUANTITIES PER SPAN | | | |
|--|------------------------------------|------------------------------------|--|
| FIXED BEARING TO FIXED BEARING | FIXED BEARING TO EXPANSION BEARING | | EXPANSION BEARING TO EXPANSION BEARING |
| FIXED BEARING ASSEMBLIES (LB.) | FIXED BEARING ASSEMBLIES (LB.) | EXPANSION BEARING ASSEMBLIES (LB.) | EXPANSION BEARING ASSEMBLIES (LB.) |
| 1,800 | 900 | 900 | 1,800 |

| SEALED EXPANSION JOINT QUANTITY PER EXPANSION JOINT | | | |
|---|------|-----------------|------------------|
| DESCRIPTION | UNIT | TR4 W/ OPENINGS | TR4 W/O OPENINGS |
| SEALED EXPANSION JOINT | L.F. | 43.2 | 41.8 |

| CONSTRUCTION JOINT SEAL QUANTITIES | | |
|------------------------------------|------|-----------------|
| ITEM | UNIT | EACH FIXED PIER |
| SEALER CRACK PREPARATION | L.F. | 40.8 |
| SEALER RESIN | GAL. | 0.5 |

- ① Quantity includes provision for laps required in longitudinal reinforcing as follows:
95' thru 105' Spans - 1 1/2 laps
110' thru 130' Spans - 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.
- ② Quantity includes provision for laps required in longitudinal reinforcing as follows:
95' thru 115' Spans - 1 lap
120' and 130' Spans - 2 laps
- ③ Provide and install Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of stainless steel per span per Bearing Assembly type. Include all costs associated with providing and installing the Elastomeric Pads, Anchor Plates, Contact Plates, Contact Angles 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 FIXED BEARING ASSEMBLIES or EXPANSION BEARING ASSEMBLIES as applicable.

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

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
SUPERSTRUCTURE QUANTITIES
TYPE J P.C. BEAMS
CONVENTIONAL

2009 SPECIFICATIONS | B40-C-SPR-QUAN-PCB-J | 03E
B-411E