

SUPERSTRUCTURE QUANTITIES PER SPAN

| SPAN | ABUTMENT TO ABUTMENT | | | | | ABUTMENT TO PIER | | | | | (PL) ELASTOMERIC BEARING PADS (EACH) | | | | | | |
|------|----------------------------|------------------------|--------------------------|--------------------------------------|-----------------|---|-----------------|------------------------------------|----------------------------|------------------------|--------------------------------------|--------------------------|--------------------------------------|-----------------|------------------------------------|--|---|
| | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL (LB.) | | WATER REPELLENT (VISUALLY INSPECTED) (S.Y.) | | (PL) FIXED BEARING ASSEMBLY (EACH) | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL (LB.) | | (PL) FIXED BEARING ASSEMBLY (EACH) | (PL) EXPANSION BEARING ASSEMBLY (EACH) | |
| | | | | TR4 W/O OPENINGS | TR4 W/ OPENINGS | TR4 W/O OPENINGS | TR4 W/ OPENINGS | | | | | | TR4 W/O OPENINGS | TR4 W/ OPENINGS | | | |
| 30' | 61.0 | 12,450 | 58.0 | 9,220 | 9,390 | 118 | 117 | 8 | 60.5 | 13,930 | 44.8 | 9,210 | 9,390 | 86 | 85 | 4 | 4 |
| 35' | 71.0 | 15,220 | 64.0 | 10,310 | 10,590 | 129 | 127 | 8 | 70.5 | 16,720 | 50.4 | 10,430 | 10,590 | 96 | 94 | 4 | 4 |
| 40' | 81.0 | 18,550 | 69.3 | 11,520 | 11,790 | 138 | 136 | 8 | 80.5 | 20,050 | 55.7 | 11,510 | 11,800 | 105 | 103 | 4 | 4 |
| 45' | 91.0 | 23,670 | 74.6 | 12,610 | 12,990 | 147 | 145 | 8 | 90.5 | 25,170 | 61.0 | 12,730 | 13,000 | 115 | 112 | 4 | 4 |
| 50' | 101.0 | 28,870 | 80.8 | 13,820 | 14,200 | 157 | 155 | 8 | 100.5 | 30,390 | 66.7 | 13,900 | 14,280 | 124 | 121 | 4 | 4 |
| 55' | 111.0 | 34,350 | 90.1 | 15,690 | 16,180 | 177 | 173 | 8 | 110.5 | 35,890 | 74.0 | 15,510 | 15,870 | 138 | 134 | 4 | 4 |
| 60' | 121.0 | 40,710 | 95.4 | 17,060 | 17,540 | 186 | 182 | 8 | 120.5 | 42,260 | 79.3 | 16,590 | 17,080 | 147 | 143 | 4 | 4 |
| 65' | 131.0 | 48,390 | 101.4 | 18,160 | 18,740 | 197 | 193 | 8 | 130.5 | 49,980 | 84.9 | 18,180 | 18,660 | 157 | 153 | 4 | 4 |
| 70' | 141.0 | 56,270 | 106.7 | 19,370 | 19,950 | 206 | 201 | 8 | 140.5 | 57,870 | 90.2 | 19,470 | 19,940 | 166 | 162 | 4 | 4 |
| 75' | 151.0 | 64,970 | 112.2 | 20,460 | 21,150 | 212 | 207 | 8 | 150.5 | 66,580 | 95.7 | 20,570 | 21,150 | 173 | 167 | 4 | 4 |
| 80' | 161.0 | 75,790 | 117.5 | 21,670 | 22,350 | 221 | 216 | 8 | 160.5 | 77,400 | 101.1 | 21,780 | 22,350 | 181 | 176 | 4 | 4 |
| 85' | 171.0 | 91,690 | 122.9 | 22,760 | 23,550 | 230 | 224 | 8 | 170.5 | 93,300 | 106.4 | 22,870 | 23,550 | 190 | 185 | 4 | 4 |
| 90' | 181.0 | 106,790 | 128.3 | 23,970 | 24,760 | 239 | 233 | 8 | 180.5 | 108,400 | 111.7 | 24,080 | 24,750 | 199 | 193 | 4 | 4 |
| 95' | 191.0 | 119,990 | 133.6 | 25,060 | 25,960 | 248 | 242 | 8 | 190.5 | 121,600 | 117.0 | 25,170 | 25,950 | 208 | 202 | 4 | 4 |
| 100' | 201.0 | 136,770 | 138.9 | 26,280 | 27,160 | 256 | 250 | 8 | 200.5 | 138,380 | 122.3 | 26,380 | 27,160 | 217 | 210 | 4 | 4 |

① Quantity includes provision for laps required in longitudinal reinforcing, as follows:
60' thru 100' Spans - 1 lap

② Quantity includes provision for laps required in longitudinal reinforcing as follows:
30' thru 45' Spans - 1/2 lap
50' thru 65' Spans - 1 lap
70' thru 100' Spans - 1 1/2 laps
Laps account for adjacent span combinations and are approximate. Pay quantity will be as shown on 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 structural 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.

SUPERSTRUCTURE QUANTITIES PER SPAN

| SPAN | PIER TO PIER | | | | | (PL) ELASTOMERIC BEARING PADS (EACH) | | | | | |
|------|----------------------------|------------------------|--------------------------|--------------------------------------|-----------------|--------------------------------------|--|---|---|---|---|
| | CONCRETE RAIL (TR4) (L.F.) | STRUCTURAL STEEL (LB.) | CLASS AA CONCRETE (C.Y.) | EPOXY COATED REINFORCING STEEL (LB.) | | | (PL) EXPANSION BEARING ASSEMBLY (EACH) | | | | |
| | | | | TR4 W/O OPENINGS | TR4 W/ OPENINGS | | | | | | |
| 30' | 60.0 | 15,400 | 31.5 | 9,260 | 9,330 | 54 | 53 | 8 | 8 | 8 | 5 |
| 35' | 70.0 | 18,210 | 36.8 | 10,360 | 10,530 | 64 | 61 | 8 | 8 | 8 | 8 |
| 40' | 80.0 | 21,540 | 42.1 | 11,570 | 11,740 | 72 | 70 | 8 | 8 | 8 | 8 |
| 45' | 90.0 | 26,660 | 47.3 | 12,660 | 12,940 | 82 | 79 | 8 | 8 | 8 | 8 |
| 50' | 100.0 | 31,910 | 52.6 | 13,950 | 14,220 | 90 | 87 | 8 | 8 | 8 | 8 |
| 55' | 110.0 | 37,440 | 57.9 | 15,040 | 15,420 | 99 | 96 | 8 | 8 | 8 | 8 |
| 60' | 120.0 | 43,810 | 63.2 | 16,250 | 16,630 | 108 | 104 | 8 | 8 | 8 | 8 |
| 65' | 130.0 | 51,570 | 68.5 | 18,230 | 18,590 | 118 | 113 | 8 | 8 | 8 | 8 |
| 70' | 140.0 | 59,470 | 73.7 | 19,400 | 19,880 | 126 | 122 | 8 | 8 | 8 | 8 |
| 75' | 150.0 | 68,190 | 79.3 | 20,610 | 21,080 | 133 | 128 | 8 | 8 | 8 | 8 |
| 80' | 160.0 | 79,010 | 84.6 | 21,700 | 22,280 | 141 | 136 | 8 | 8 | 8 | 8 |
| 85' | 170.0 | 94,900 | 89.9 | 22,910 | 23,480 | 151 | 145 | 8 | 8 | 8 | 8 |
| 90' | 180.0 | 110,010 | 95.2 | 24,000 | 24,690 | 159 | 153 | 8 | 8 | 8 | 8 |
| 95' | 190.0 | 123,200 | 100.5 | 25,220 | 25,890 | 168 | 162 | 8 | 8 | 8 | 8 |
| 100' | 200.0 | 139,990 | 105.7 | 26,310 | 27,090 | 177 | 170 | 8 | 8 | 8 | 8 |

BEARING ASSEMBLY STRUCTURAL STEEL QUANTITIES PER SPAN

| SPAN | ABUTMENT TO ABUTMENT | | ABUTMENT TO PIER | | PIER TO PIER |
|------|--------------------------------|------------------------------------|--------------------------------|------------------------------------|--------------|
| | FIXED BEARING ASSEMBLIES (LB.) | EXPANSION BEARING ASSEMBLIES (LB.) | FIXED BEARING ASSEMBLIES (LB.) | EXPANSION BEARING ASSEMBLIES (LB.) | |
| 30' | 570 | 280 | 280 | 630 | 1,260 |
| 35' | 570 | 280 | 280 | 630 | 1,260 |
| 40' | 570 | 280 | 280 | 700 | 1,400 |
| 45' | 570 | 280 | 280 | 710 | 1,420 |
| 50' | 570 | 280 | 280 | 720 | 1,440 |
| 55' | 570 | 280 | 280 | 750 | 1,500 |
| 60' | 570 | 280 | 280 | 780 | 1,560 |
| 65' | 570 | 280 | 280 | 780 | 1,560 |
| 70' | 570 | 280 | 280 | 790 | 1,580 |
| 75' | 570 | 280 | 280 | 770 | 1,540 |
| 80' | 570 | 280 | 280 | 770 | 1,540 |
| 85' | 570 | 280 | 280 | 770 | 1,540 |
| 90' | 570 | 280 | 280 | 770 | 1,540 |
| 95' | 570 | 280 | 280 | 770 | 1,540 |
| 100' | 570 | 280 | 280 | 770 | 1,540 |

| CONSTRUCTION JOINT SEAL QUANTITIES | | |
|------------------------------------|------|-----------|
| ITEM | UNIT | EACH PIER |
| (SP) SEALER CRACK PREPARATION | L.F. | 81.5 |
| (SP) SEALER RESIN | GAL. | 0.9 |

APPROVED BY BRIDGE ENGINEER *[Signature]* DATE 10-10-05

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

**SUPERSTRUCTURE QUANTITIES
ROLLED BEAMS
INTEGRAL**