

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)																		
SPAN	ABUTMENT TO ABUTMENT						ABUTMENT TO STANDARD PIER						ABUTMENT TO STEPPED PIER					
	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ①	(PL) FIXED BEARING ASSEMBLY ③	(PL) EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED BEARING ASSEMBLY ③	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED BEARING ASSEMBLY ③	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③
	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)
30'	66.4	12,550	31.0	6,900	4	4	63.2	12,550	28.8	6,390	4	4	63.9	12,550	29.2	6,420	4	4
35'	76.4	14,010	35.3	7,740	4	4	73.2	14,010	33.2	7,230	4	4	73.9	14,010	33.6	7,260	4	4
40'	86.4	16,740	39.6	8,740	4	4	83.2	16,740	37.5	8,230	4	4	83.9	16,740	37.9	8,260	4	4
45'	96.4	19,860	44.0	9,570	4	4	93.2	19,860	41.9	9,060	4	4	93.9	19,860	42.3	9,100	4	4
50'	106.4	24,690	48.4	10,570	4	4	103.2	24,690	46.3	10,130	4	4	103.9	24,690	46.7	10,170	4	4
55'	116.4	31,750	52.8	11,410	4	4	113.2	31,750	50.6	10,970	4	4	113.9	31,750	51.0	11,010	4	4
60'	126.4	37,680	57.2	12,550	4	4	123.2	37,680	55.1	11,970	4	4	123.9	37,680	55.4	12,000	4	4
65'	136.4	41,720	61.6	13,390	4	4	133.2	41,720	59.4	12,810	4	4	133.9	41,720	59.8	12,840	4	4
70'	146.4	48,690	65.9	14,390	4	4	143.2	48,690	63.8	13,880	4	4	143.9	48,690	64.2	13,910	4	4
75'	156.4	57,030	70.3	15,230	4	4	153.2	57,030	68.1	14,720	4	4	153.9	57,030	68.5	14,750	4	4
80'	166.4	66,870	74.6	16,220	4	4	163.2	66,870	72.5	15,710	4	4	163.9	66,870	72.9	15,740	4	4
85'	176.4	76,280	79.3	17,060	4	4	173.2	76,280	77.2	16,550	4	4	173.9	76,280	77.6	16,580	4	4
90'	186.4	86,080	83.7	18,060	4	4	183.2	86,080	81.6	17,550	4	4	183.9	86,080	82.0	17,580	4	4
95'	196.4	103,260	88.1	18,900	4	4	193.2	103,260	85.9	18,380	4	4	193.9	103,260	86.3	18,420	4	4
100'	206.4	108,140	92.4	19,890	4	4	203.2	108,140	90.3	19,380	4	4	203.9	108,140	90.7	19,410	4	4

- ① QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 55' SPANS - NO LAP SPLICES
60' THRU 100' SPANS - 1 LAP SPLICE
- ② QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 45' SPANS - 1/2 LAP SPLICE
50' THRU 65' SPANS - 1 LAP SPLICE
70' THRU 100' SPANS - 1 1/2 LAP SPLICES
LAP SPLICES ACCOUNT FOR ADJACENT SPAN COMBINATIONS AND ARE APPROXIMATE. PAYMENT FOR "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.
- ③ PROVIDE AND INSTALL FIXED OR EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH FIXED OR EXPANSION BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE FIXED OR EXPANSION BEARING ASSEMBLIES INCLUDING THE COST OF STEEL REINFORCED ELASTOMERIC BEARING PADS, ANCHOR PLATES, CONTACT PLATES, ANCHOR BOLTS, NUTS, WASHERS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "FIXED BEARING ASSEMBLY" OR "EXPANSION BEARING ASSEMBLY."

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)															
SPAN	STANDARD PIER TO STANDARD PIER					STANDARD PIER TO STEPPED PIER					STEPPED PIER TO STEPPED PIER				
	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ③
	(LF)	(LB)	(CY)	(LB)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)	(LF)	(LB)	(CY)	(LB)	(EA)
30'	60.0	12,550	26.7	5,910	8	60.7	12,550	27.1	5,940	8	61.4	12,550	27.5	5,970	8
35'	70.0	14,010	31.1	6,740	8	70.7	14,010	31.5	6,780	8	71.4	14,010	31.8	6,810	8
40'	80.0	16,740	35.4	7,740	8	80.7	16,740	35.8	7,770	8	81.4	16,740	36.2	7,810	8
45'	90.0	19,860	39.8	8,580	8	90.7	19,860	40.2	8,610	8	91.4	19,860	40.6	8,640	8
50'	100.0	24,690	44.2	9,650	8	100.7	24,690	44.6	9,680	8	101.4	24,690	44.9	9,720	8
55'	110.0	31,750	48.5	10,490	8	110.7	31,750	48.9	10,520	8	111.4	31,750	49.3	10,550	8
60'	120.0	37,680	52.9	11,480	8	120.7	37,680	53.3	11,520	8	121.4	37,680	53.7	11,550	8
65'	130.0	41,720	57.3	12,320	8	130.7	41,720	57.7	12,360	8	131.4	41,720	58.1	12,390	8
70'	140.0	48,690	61.7	13,390	8	140.7	48,690	62.1	13,420	8	141.4	48,690	62.5	13,460	8
75'	150.0	57,030	66.0	14,230	8	150.7	57,030	66.4	14,270	8	151.4	57,030	66.8	14,300	8
80'	160.0	66,870	70.4	15,230	8	160.7	66,870	70.8	15,260	8	161.4	66,870	71.2	15,290	8
85'	170.0	76,280	75.1	16,070	8	170.7	76,280	75.5	16,100	8	171.4	76,280	75.8	16,130	8
90'	180.0	86,080	79.4	17,060	8	180.7	86,080	79.8	17,090	8	181.4	86,080	80.2	17,130	8
95'	190.0	103,260	83.8	17,900	8	190.7	103,260	84.2	17,930	8	191.4	103,260	84.6	17,970	8
100'	200.0	108,140	88.2	18,900	8	200.7	108,140	88.6	18,930	8	201.4	108,140	89.0	18,960	8

SUMMARY OF QUANTITIES BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)	
SPAN	FIXED OR EXPANSION BEARING ASSEMBLY (LB)
30'	160
35'	160
40'	160
45'	160
50'	160
55'	160
60'	160
65'	160
70'	170
75'	170
80'	170
85'	180
90'	180
95'	190
100'	190

SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)		
ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	35.17

NOTES

QUANTITY CALCULATIONS ASSUME ALL PIERS ARE FIXED PIERS. ANY ADJUSTMENTS TO THE QUANTITIES OF "CONCRETE RAIL (TR3)", "CLASS AA CONCRETE" AND "REINFORCING STEEL" NECESSARY TO ACCOUNT FOR EXPANSION JOINT OPENINGS WITHIN THE BRIDGE ARE MINOR AND HAVE NOT BEEN CONSIDERED. PAYMENT FOR "CONCRETE RAIL (TR3)", "CLASS AA CONCRETE" AND "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

APPROVED BY BRIDGE ENGINEER *Robert A. Rusk* DATE 10/16/08

OKLAHOMA DEPARTMENT OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)

**SUPERSTRUCTURE QUANTITIES
ROLLED BEAMS**

32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°

1999 STANDARD SPECIFICATIONS CB32-C-SKO-SPR-QUAN-RB OOE CB-567E