

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)

SPAN	PRESTRESSED CONCRETE BEAM TYPE	ABUTMENT TO ABUTMENT								ABUTMENT TO STANDARD PIER						ABUTMENT TO STEPPED PIER						
		PRESTRESSED CONCRETE BEAMS (TYPE ①)	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ②	(PL) FIXED BEARING ASSEMBLY ④	(PL) EXPANSION BEARING ASSEMBLY ④	PRESTRESSED CONCRETE BEAMS (TYPE ①)	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ③	(PL) FIXED BEARING ASSEMBLY ④	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ④	PRESTRESSED CONCRETE BEAMS (TYPE ①)	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	CLASS AA CONCRETE	REINFORCING STEEL ③	(PL) FIXED BEARING ASSEMBLY ④	(PL) FIXED OR EXPANSION BEARING ASSEMBLY ④
		(LF)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)	(LF)	(LF)	(LB)	(CY)	(LB)	(EA)	(EA)
30'	II	89.00	70.5	320	29.5	9,260	3	3	89.00	65.3	320	26.9	8,860	3	3	89.00	67.6	320	27.9	9,050	3	3
	B	89.00	70.5	320	29.3	9,250	3	3	89.00	65.3	320	26.7	8,850	3	3	89.00	67.6	320	27.7	9,040	3	3
35'	II	104.00	80.5	320	33.0	10,170	3	3	104.00	75.3	320	30.4	9,600	3	3	104.00	77.6	320	31.4	9,800	3	3
	B	104.00	80.5	320	32.9	10,160	3	3	104.00	75.3	320	30.2	9,590	3	3	104.00	77.6	320	31.2	9,790	3	3
40'	II	119.00	90.5	320	36.5	10,910	3	3	119.00	85.3	320	33.9	10,510	3	3	119.00	87.6	320	34.9	10,700	3	3
	B	119.00	90.5	320	36.4	10,900	3	3	119.00	85.3	320	33.7	10,500	3	3	119.00	87.6	320	34.8	10,690	3	3
45'	II	134.00	100.5	320	40.1	11,820	3	3	134.00	95.3	320	37.4	11,260	3	3	134.00	97.6	320	38.4	11,450	3	3
	B	134.00	100.5	320	39.9	11,810	3	3	134.00	95.3	320	37.3	11,250	3	3	134.00	97.6	320	38.3	11,450	3	3
50'	II	149.00	110.5	320	43.6	12,570	3	3	149.00	105.3	320	40.9	12,220	3	3	149.00	107.6	320	42.0	12,420	3	3
	B	149.00	110.5	320	43.4	12,560	3	3	149.00	105.3	320	40.8	12,220	3	3	149.00	107.6	320	41.8	12,410	3	3
55'	II	164.00	120.5	320	47.1	13,470	3	3	164.00	115.3	320	44.5	12,970	3	3	164.00	117.6	320	45.5	13,170	3	3
	B	164.00	120.5	320	46.9	13,470	3	3	164.00	115.3	320	44.3	12,960	3	3	164.00	117.6	320	45.3	13,160	3	3
60'	II	179.00	130.5	320	50.6	14,340	3	3	179.00	125.3	320	48.0	13,880	3	3	179.00	127.6	320	49.0	14,070	3	3
	C	179.00	130.5	320	51.3	14,340	3	3	179.00	125.3	320	48.6	13,880	3	3	179.00	127.6	320	49.7	14,070	3	3
65'	III	194.00	140.5	320	55.3	15,260	3	3	194.00	135.3	320	52.6	14,640	3	3	194.00	137.6	320	53.7	14,830	3	3
	C	194.00	140.5	320	54.8	15,240	3	3	194.00	135.3	320	52.2	14,620	3	3	194.00	137.6	320	53.2	14,820	3	3
70'	III	209.00	150.5	320	58.8	16,010	3	3	209.00	145.3	320	56.1	15,600	3	3	209.00	147.6	320	57.2	15,800	3	3
	C	209.00	150.5	320	58.4	15,990	3	3	209.00	145.3	320	55.7	15,590	3	3	209.00	147.6	320	56.8	15,780	3	3
75'	III	224.00	160.5	320	62.4	16,910	3	3	224.00	155.3	320	59.7	16,350	3	3	224.00	157.6	320	60.8	16,550	3	3
	C	224.00	160.5	320	61.9	16,900	3	3	224.00	155.3	320	59.2	16,340	3	3	224.00	157.6	320	60.3	16,530	3	3
80'	III	239.00	170.5	320	65.9	17,660	3	3	239.00	165.3	320	63.3	17,260	3	3	239.00	167.6	320	64.3	17,450	3	3
	IV	239.00	170.5	320	67.0	17,680	3	3	239.00	165.3	320	64.3	17,270	3	3	239.00	167.6	320	65.4	17,470	3	3
85'	III	254.00	180.5	320	69.5	18,570	3	3	254.00	175.3	320	66.8	18,000	3	3	254.00	177.6	320	67.9	18,200	3	3
	IV	254.00	180.5	320	70.6	18,580	3	3	254.00	175.3	320	67.9	18,020	3	3	254.00	177.6	320	69.0	18,220	3	3
90'	IV	269.00	190.5	320	74.2	19,330	3	3	269.00	185.3	320	71.5	18,930	3	3	269.00	187.6	320	72.6	19,120	3	3
95'	IV	284.00	200.5	320	77.8	20,240	3	3	284.00	195.3	320	75.1	19,680	3	3	284.00	197.6	320	76.2	19,870	3	3
100'	IV	299.00	210.5	320	81.4	20,980	3	3	299.00	205.3	320	78.7	20,580	3	3	299.00	207.6	320	79.8	20,770	3	3
105'	IV	314.00	220.5	420	86.1	22,030	3	3	314.00	215.3	420	83.4	21,530	3	3	314.00	217.6	420	84.5	21,720	3	3
110'	BT-72	329.00	230.5	840	101.4	24,010	3	3	329.00	225.3	840	98.6	23,670	3	3	329.00	227.6	840	99.8	23,860	3	3
	J	329.00	230.5	840	101.4	24,010	3	3	329.00	225.3	840	98.6	23,670	3	3	329.00	227.6	840	99.8	23,860	3	3
115'	BT-72	344.00	240.5	840	105.2	24,920	3	3	344.00	235.3	840	102.4	24,410	3	3	344.00	237.6	840	103.6	24,610	3	3
	J	344.00	240.5	840	105.2	24,920	3	3	344.00	235.3	840	102.4	24,410	3	3	344.00	237.6	840	103.6	24,610	3	3
120'	BT-72	359.00	250.5	840	109.0	25,780	3	3	359.00	245.3	840	106.2	25,320	3	3	359.00	247.6	840	107.4	25,510	3	3
	J	359.00	250.5	840	109.0	25,780	3	3	359.00	245.3	840	106.2	25,320	3	3	359.00	247.6	840	107.4	25,510	3	3
125'	J	374.00	260.5	840	112.8	26,690	3	3	374.00	255.3	840	110.0	26,070	3	3	374.00	257.6	840	111.2	26,260	3	3
130'	J	389.00	270.5	840	116.6	27,440	3	3	389.00	265.3	840	113.8	26,970	3	3	389.00	267.6	840	115.0	27,170	3	3
135'	J	404.00	280.5	840	120.4	28,340	3	3	404.00	275.3	840	117.6	27,720	3	3	404.00	277.6	840	118.8	27,920	3	3

- ① PRESTRESSED CONCRETE BEAM TYPE SHALL BE TYPE II, TYPE B, TYPE III, TYPE C, TYPE IV, TYPE 72 BT OR TYPE J BT AS APPLICABLE.
- ② QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 55' SPANS - NO LAP SPLICES
60' THRU 115' SPANS - 1 LAP SPLICE
120' THRU 135' SPANS - 2 LAP SPLICES
- ③ 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 105' SPANS - 1 1/2 LAP SPLICES
110' THRU 135' SPANS - 2 LAP SPLICES
LAP SPLICES ACCOUNT FOR ADJACENT SPAN COMBINATIONS AND ARE APPROXIMATE. PAYMENT FOR "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.
- ④ 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, CONTACT ANGLES, 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 - BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)

PRESTRESSED CONCRETE BEAM TYPE	SPAN	FIXED OR EXPANSION BEARING ASSEMBLY (LB)
II AND B	30'	160
	35'	180
	40'	200
	45' THRU 60'	190
III AND C	60'	200
	65' THRU 85'	190
IV AND BT-72	80'	190
	85' AND 90'	190
	95' THRU 120'	190
J	110' THRU 135'	200

SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)

ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	33.06

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	<i>Robert A. Nease</i>	DATE	10/16/08
OKLAHOMA DEPARTMENT OF TRANSPORTATION COUNTY BRIDGE STANDARD (ENGLISH)			
SUPERSTRUCTURE QUANTITIES P.C. BEAMS (SHEET NO. 1 OF 2)			
26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°			
1999 STANDARD SPECIFICATIONS	CB26-C-SK30-SPR-QUAN-PCB-1	00E	CB-254E