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	118.67	70.5	420	36.6	10,790	4	4	118.67	65.3	420	33.4	10,200	4	4	118.67	67.6	420	34.7	10,480	4	4
	B	118.67	70.5	420	36.4	10,780	4	4	118.67	65.3	420	33.2	10,190	4	4	118.67	67.6	420	34.5	10,460	4	4
35'	II	138.67	80.5	420	41.0	11,790	4	4	138.67	75.3	420	37.8	11,160	4	4	138.67	77.6	420	39.0	11,380	4	4
	B	138.67	80.5	420	40.8	11,780	4	4	138.67	75.3	420	37.6	11,150	4	4	138.67	77.6	420	38.8	11,360	4	4
40'	II	158.67	90.5	420	45.4	12,630	4	4	158.67	85.3	420	42.1	12,160	4	4	158.67	87.6	420	43.4	12,370	4	4
	B	158.67	90.5	420	45.1	12,620	4	4	158.67	85.3	420	41.9	12,150	4	4	158.67	87.6	420	43.2	12,360	4	4
45'	II	178.67	100.5	420	49.7	13,630	4	4	178.67	95.3	420	46.5	12,990	4	4	178.67	97.6	420	47.7	13,210	4	4
	B	178.67	100.5	420	49.5	13,620	4	4	178.67	95.3	420	46.3	12,980	4	4	178.67	97.6	420	47.5	13,200	4	4
50'	II	198.67	110.5	420	54.1	14,460	4	4	198.67	105.3	420	50.9	14,070	4	4	198.67	107.6	420	52.1	14,280	4	4
	B	198.67	110.5	420	53.9	14,450	4	4	198.67	105.3	420	50.6	14,050	4	4	198.67	107.6	420	51.9	14,270	4	4
55'	II	218.67	120.5	420	58.4	15,460	4	4	218.67	115.3	420	55.2	14,900	4	4	218.67	117.6	420	56.5	15,120	4	4
	B	218.67	120.5	420	58.2	15,450	4	4	218.67	115.3	420	55.0	14,890	4	4	218.67	117.6	420	56.3	15,110	4	4
60'	II	238.67	130.5	420	62.8	16,300	4	4	238.67	125.3	420	59.6	15,900	4	4	238.67	127.6	420	60.8	16,110	4	4
	C	238.67	130.5	430	63.7	16,460	4	4	238.67	125.3	430	60.4	15,910	4	4	238.67	127.6	430	61.7	16,130	4	4
65'	II	258.67	140.5	420	67.1	17,440	4	4	258.67	135.3	420	63.9	16,740	4	4	258.67	137.6	420	65.2	16,950	4	4
	C	258.67	140.5	430	68.0	17,460	4	4	258.67	135.3	430	64.8	16,750	4	4	258.67	137.6	430	66.1	16,970	4	4
70'	III	278.67	150.5	430	73.0	18,320	4	4	278.67	145.3	430	69.7	17,840	4	4	278.67	147.6	430	71.0	18,060	4	4
	C	278.67	150.5	430	72.4	18,300	4	4	278.67	145.3	430	69.2	17,820	4	4	278.67	147.6	430	70.5	18,040	4	4
75'	III	298.67	160.5	430	77.4	19,310	4	4	298.67	155.3	430	74.1	18,680	4	4	298.67	157.6	430	75.4	18,900	4	4
	C	298.67	160.5	430	76.8	19,290	4	4	298.67	155.3	430	73.5	18,660	4	4	298.67	157.6	430	74.9	18,880	4	4
80'	III	318.67	170.5	430	81.8	20,150	4	4	318.67	165.3	430	78.5	19,680	4	4	318.67	167.6	430	79.8	19,890	4	4
	C	318.67	170.5	430	81.2	20,130	4	4	318.67	165.3	430	77.9	19,660	4	4	318.67	167.6	430	79.2	19,870	4	4
85'	III	338.67	180.5	430	86.2	21,150	4	4	338.67	175.3	430	82.9	20,520	4	4	338.67	177.6	430	84.2	20,730	4	4
	IV	338.67	180.5	430	87.7	21,170	4	4	338.67	175.3	430	84.4	20,540	4	4	338.67	177.6	430	85.7	20,750	4	4
90'	III	358.67	190.5	430	90.6	21,990	4	4	358.67	185.3	430	87.3	21,510	4	4	358.67	187.6	430	88.7	21,730	4	4
	IV	358.67	190.5	430	92.2	22,010	4	4	358.67	185.3	430	88.8	21,530	4	4	358.67	187.6	430	90.2	21,750	4	4
95'	IV	378.67	200.5	430	96.6	23,000	4	4	378.67	195.3	430	93.3	22,370	4	4	378.67	197.6	430	94.6	22,590	4	4
100'	IV	398.67	210.5	430	101.1	23,840	4	4	398.67	205.3	430	97.7	23,370	4	4	398.67	207.6	430	99.1	23,580	4	4
105'	IV	418.67	220.5	570	107.0	25,020	4	4	418.67	215.3	570	103.7	24,390	4	4	418.67	217.6	570	105.0	24,610	4	4
110'	IV	438.67	230.5	570	111.4	25,860	4	4	438.67	225.3	570	108.1	25,460	4	4	438.67	227.6	570	109.5	25,670	4	4
115'	IV	458.67	240.5	570	115.9	26,860	4	4	458.67	235.3	570	112.6	26,300	4	4	458.67	237.6	570	113.9	26,510	4	4
120'	BT-72	478.67	250.5	1,090	136.5	29,490	4	4	478.67	245.3	1,090	133.0	28,940	4	4	478.67	247.6	1,090	134.5	29,150	4	4
	J	478.67	250.5	1,090	136.4	29,490	4	4	478.67	245.3	1,090	133.0	28,940	4	4	478.67	247.6	1,090	134.5	29,150	4	4
125'	BT-72	498.67	260.5	1,090	141.2	30,480	4	4	498.67	255.3	1,090	137.7	29,780	4	4	498.67	257.6	1,090	139.2	29,990	4	4
	J	498.67	260.5	1,090	141.2	30,480	4	4	498.67	255.3	1,090	137.7	29,780	4	4	498.67	257.6	1,090	139.2	29,990	4	4
130'	BT-72	518.67	270.5	1,090	145.9	31,320	4	4	518.67	265.3	1,090	142.5	30,770	4	4	518.67	267.6	1,090	144.0	30,990	4	4
	J	518.67	270.5	1,090	145.9	31,320	4	4	518.67	265.3	1,090	142.4	30,770	4	4	518.67	267.6	1,090	143.9	30,990	4	4
135'	J	538.67	280.5	1,090	150.6	32,320	4	4	538.67	275.3	1,090	147.2	31,610	4	4	538.67	277.6	1,090	148.7	31,830	4	4
140'	J	558.67	290.5	1,090	155.4	33,160	4	4	558.67	285.3	1,090	151.9	32,610	4	4	558.67	287.6	1,090	153.4	32,820	4	4
145'	J	578.67	300.5	1,090	160.1	34,150	4	4	578.67	295.3	1,090	156.6	33,450	4	4	578.67	297.6	1,090	158.1	33,660	4	4

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 145' 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 145' 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' AND 35'	160
	40'	170
	45'	190
	50'	200
	55' THRU 65'	190
III AND C	60'	180
	65'	190
	70'	190
	75'	200
	80' THRU 90'	190
IV AND BT-72	85'	190
	90' AND 95	190
	100' THRU 130'	190
J	120' THRU 145'	200

SUMMARY OF QUANTITIES SEALED EXPANSION JOINT (PER EXPANSION JOINT)

ITEM	UNIT	TOTAL
SEALED EXPANSION JOINT	LF	39.99

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 J. Rusch DATE 10/16/08

OKLAHOMA DEPARTMENT OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)

SUPERSTRUCTURE QUANTITIES
P.C. BEAMS
(SHEET NO. 1 OF 2)

32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°

1999 STANDARD SPECIFICATIONS	CB32-C-SK30-SPR-QUAN-PCB-1	OOE
		CB-631E