

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)																					
SPAN	ABUTMENT TO ABUTMENT							ABUTMENT TO STANDARD PIER							ABUTMENT TO STEPPED PIER						
	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL ①	WEATHERING STEEL FIXED BEARING ASSEMBLY ②	WEATHERING STEEL EXPANSION BEARING ASSEMBLY ②	CLASS AA CONCRETE	REINFORCING STEEL ③	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL ①	WEATHERING STEEL FIXED BEARING ASSEMBLY ②	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ②	CLASS AA CONCRETE	REINFORCING STEEL ④	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL ①	WEATHERING STEEL FIXED BEARING ASSEMBLY ②	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ②	CLASS AA CONCRETE	REINFORCING STEEL ④
	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(EA)	(CY)	(LB)
30'	83.3	70.5	10,820	3	3	27.2	8,810	76.9	65.3	10,690	3	3	24.4	8,400	79.8	67.6	10,690	3	3	25.6	8,600
35'	95.5	80.5	12,910	3	3	30.7	9,710	89.2	75.3	12,780	3	3	27.9	9,150	92.0	77.6	12,780	3	3	29.1	9,350
40'	107.8	90.5	14,910	3	3	34.3	10,460	101.4	85.3	14,930	3	3	31.5	10,060	104.2	87.6	14,930	3	3	32.6	10,250
45'	120.0	100.5	17,750	3	3	37.8	11,370	113.6	95.3	17,620	3	3	35.0	10,800	116.5	97.6	17,620	3	3	36.1	11,000
50'	132.2	110.5	20,700	3	3	41.3	12,110	125.8	105.3	20,570	3	3	38.5	11,770	128.7	107.6	20,570	3	3	39.7	11,960
55'	144.4	120.5	24,990	3	3	44.8	13,020	138.1	115.3	24,860	3	3	42.1	12,520	140.9	117.6	24,860	3	3	43.2	12,710
60'	156.7	130.5	29,950	3	3	48.4	13,890	150.3	125.3	29,820	3	3	45.6	13,420	153.1	127.6	29,820	3	3	46.8	13,620
65'	168.9	140.5	34,950	3	3	51.9	14,790	162.5	135.3	34,820	3	3	49.1	14,170	165.3	137.6	34,820	3	3	50.3	14,370
70'	181.1	150.5	39,380	3	3	55.4	15,540	174.7	145.3	39,250	3	3	52.6	15,140	177.6	147.6	39,250	3	3	53.8	15,330
75'	193.3	160.5	47,300	3	3	58.9	16,450	186.9	155.3	47,170	3	3	56.2	15,890	189.8	157.6	47,170	3	3	57.3	16,080
80'	205.5	170.5	55,090	3	3	62.7	17,190	199.2	165.3	54,960	3	3	59.9	16,790	202.0	167.6	54,960	3	3	61.1	16,980
85'	217.8	180.5	62,210	3	3	66.2	18,100	211.4	175.3	62,080	3	3	63.5	17,540	214.2	177.6	62,080	3	3	64.6	17,740
90'	230.0	190.5	74,650	3	3	69.8	18,850	223.6	185.3	74,520	3	3	67.0	18,450	226.5	187.6	74,520	3	3	68.2	18,640
95'	242.2	200.5	86,330	3	3	73.3	19,760	235.8	195.3	86,200	3	3	70.5	19,190	238.7	197.6	86,200	3	3	71.7	19,390
100'	254.4	210.5	90,550	3	3	76.9	20,500	248.1	205.3	90,420	3	3	74.1	20,100	250.9	207.6	90,420	3	3	75.2	20,290

- ① QUANTITIES SHOWN INCLUDE WEIGHT OF STEEL ANGLE BUMPERS AT ABUTMENT ENDS OF DECK SLAB. FOR EACH STEEL ANGLE BUMPER OMITTED FROM END OF DECK SLAB, DEDUCT 130 POUNDS FROM THE QUANTITIES SHOWN.
- ② 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 "WEATHERING STEEL FIXED BEARING ASSEMBLY" OR "WEATHERING STEEL EXPANSION BEARING ASSEMBLY."
- ③ 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
- ④ 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.

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)																		
SPAN	STANDARD PIER TO STANDARD PIER						STANDARD PIER TO STEPPED PIER						STEPPED PIER TO STEPPED PIER					
	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ②	CLASS AA CONCRETE	REINFORCING STEEL ④	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ②	CLASS AA CONCRETE	REINFORCING STEEL ④	SAW-CUT GROOVING	CONCRETE RAIL (TR3)	STRUCTURAL STEEL	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY ②	CLASS AA CONCRETE	REINFORCING STEEL ④
	(SY)	(LF)	(LB)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(CY)	(LB)	(SY)	(LF)	(LB)	(EA)	(CY)	(LB)
30'	70.6	60.0	10,560	6	21.6	7,830	73.4	62.4	10,560	6	22.8	8,070	76.3	64.7	10,560	6	23.9	8,270
35'	82.8	70.0	12,650	6	25.1	8,620	85.6	72.4	12,650	6	26.3	8,820	88.5	74.7	12,650	6	27.5	9,020
40'	95.0	80.0	14,800	6	28.7	9,530	97.9	82.4	14,650	6	29.8	9,730	100.7	84.7	14,650	6	31.0	9,920
45'	107.2	90.0	17,490	6	32.2	10,280	110.1	92.4	17,490	6	33.4	10,480	112.9	94.7	17,490	6	34.5	10,670
50'	119.4	100.0	20,440	6	35.7	11,250	122.3	102.4	20,440	6	36.9	11,440	125.2	104.7	20,440	6	38.0	11,630
55'	131.7	110.0	24,730	6	39.3	11,990	134.5	112.4	24,730	6	40.4	12,190	137.4	114.7	24,730	6	41.6	12,380
60'	143.9	120.0	29,690	6	42.8	12,900	146.7	122.4	29,690	6	44.0	13,100	149.6	124.7	29,690	6	45.1	13,290
65'	156.1	130.0	34,690	6	46.3	13,650	159.0	132.4	34,690	6	47.5	13,840	161.8	134.7	34,690	6	48.7	14,040
70'	168.3	140.0	39,120	6	49.9	14,610	171.2	142.4	39,120	6	51.0	14,810	174.0	144.7	39,120	6	52.2	15,000
75'	180.6	150.0	47,040	6	53.4	15,360	183.4	152.4	47,040	6	54.5	15,560	186.3	154.7	47,040	6	55.7	15,750
80'	192.8	160.0	54,830	6	57.1	16,270	195.6	162.4	54,830	6	58.3	16,460	198.5	164.7	54,830	6	59.5	16,660
85'	205.0	170.0	61,950	6	60.7	17,010	207.9	172.4	61,950	6	61.8	17,210	210.7	174.7	61,950	6	63.0	17,410
90'	217.2	180.0	74,390	6	64.2	17,920	220.1	182.4	74,390	6	65.4	18,120	222.9	184.7	74,390	6	66.5	18,310
95'	229.4	190.0	86,070	6	67.8	18,670	232.3	192.4	86,070	6	68.9	18,860	235.2	194.7	86,070	6	70.1	19,060
100'	241.7	200.0	90,290	6	71.3	19,580	244.5	202.4	90,290	6	72.5	19,770	247.4	204.7	90,290	6	73.6	19,960

SUMMARY OF QUANTITIES BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)	
SPAN	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY (LB)
30' THRU 70'	150
75'	160
80'	150
85' THRU 95'	160
100'	170

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 "SAW-CUT GROOVING"; "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 "SAW-CUT GROOVING"; "CONCRETE RAIL (TR3)"; "CLASS AA CONCRETE" AND "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.

APPROVED BY BRIDGE ENGINEER *Robert J. Dush* DATE 9-9-2011

OKLAHOMA DEPARTMENT OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)

**SUPERSTRUCTURE QUANTITIES
ROLLED BEAMS**

26' CLEAR ROADWAY - CONVENTIONAL - SKEWED 30°

2009 SPECIFICATIONS CB26-C-SK30-SPR-QUAN-RB 01E CB-256E