

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 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 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'	100.1	66.4	12,790	4	4	31.0	6,900	95.2	63.2	12,660	4	4	28.9	6,390	96.2	63.9	12,660	4	4	29.3	6,420
35'	115.7	76.4	14,250	4	4	35.3	7,740	110.8	73.2	14,120	4	4	33.2	7,230	111.8	73.9	14,120	4	4	33.6	7,260
40'	131.2	86.4	16,980	4	4	39.7	8,740	126.3	83.2	16,850	4	4	37.6	8,230	127.3	83.9	16,850	4	4	38.0	8,260
45'	146.8	96.4	20,100	4	4	44.1	9,570	141.9	93.2	19,970	4	4	41.9	9,060	142.9	93.9	19,970	4	4	42.4	9,100
50'	162.3	106.4	24,930	4	4	48.4	10,570	157.4	103.2	24,800	4	4	46.3	10,130	158.5	103.9	24,800	4	4	46.7	10,170
55'	177.9	116.4	31,990	4	4	52.8	11,410	173.0	113.2	31,860	4	4	50.7	10,970	174.0	113.9	31,860	4	4	51.1	11,010
60'	193.5	126.4	37,910	4	4	57.2	12,550	188.5	123.2	37,780	4	4	55.1	11,970	189.6	123.9	37,780	4	4	55.5	12,000
65'	209.0	136.4	41,950	4	4	61.6	13,390	204.1	133.2	41,820	4	4	59.5	12,810	205.1	133.9	41,820	4	4	59.9	12,840
70'	224.6	146.4	48,920	4	4	65.9	14,390	219.6	143.2	48,790	4	4	63.8	13,880	220.7	143.9	48,790	4	4	64.2	13,910
75'	240.1	156.4	57,250	4	4	70.3	15,230	235.2	153.2	57,120	4	4	68.2	14,720	236.2	153.9	57,120	4	4	68.6	14,750
80'	255.7	166.4	67,090	4	4	74.7	16,220	250.8	163.2	66,960	4	4	72.5	15,710	251.8	163.9	66,960	4	4	72.9	15,740
85'	271.2	176.4	76,490	4	4	79.3	17,060	266.3	173.2	76,360	4	4	77.2	16,550	267.3	173.9	76,360	4	4	77.6	16,580
90'	286.8	186.4	86,290	4	4	83.7	18,060	281.9	183.2	86,160	4	4	81.6	17,550	282.9	183.9	86,160	4	4	82.0	17,580
95'	302.3	196.4	103,470	4	4	88.1	18,900	297.4	193.2	103,340	4	4	86.0	18,380	298.5	193.9	103,340	4	4	86.4	18,420
100'	317.9	206.4	108,360	4	4	92.5	19,890	313.0	203.2	108,230	4	4	90.3	19,380	314.0	203.9	108,230	4	4	90.8	19,410

- 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'	90.3	60.0	12,530	8	26.7	5,910	91.3	60.7	12,530	8	27.2	5,940	92.3	61.4	12,530	8	27.6	5,970
35'	105.8	70.0	13,990	8	31.1	6,740	106.9	70.7	13,990	8	31.5	6,780	107.9	71.4	13,990	8	31.9	6,810
40'	121.4	80.0	16,720	8	35.4	7,740	122.4	80.7	16,720	8	35.8	7,770	123.5	81.4	16,720	8	36.3	7,810
45'	136.9	90.0	19,840	8	39.8	8,580	138.0	90.7	19,840	8	40.2	8,610	139.0	91.4	19,840	8	40.6	8,640
50'	152.5	100.0	24,670	8	44.2	9,650	153.5	100.7	24,670	8	44.6	9,680	154.6	101.4	24,670	8	45.0	9,720
55'	168.0	110.0	31,730	8	48.5	10,490	169.1	110.7	31,730	8	49.0	10,520	170.1	111.4	31,730	8	49.4	10,550
60'	183.6	120.0	37,650	8	53.0	11,480	184.6	120.7	37,650	8	53.4	11,520	185.7	121.4	37,650	8	53.8	11,550
65'	199.2	130.0	41,690	8	57.3	12,320	200.2	130.7	41,690	8	57.7	12,360	201.2	131.4	41,690	8	58.2	12,390
70'	214.7	140.0	48,660	8	61.7	13,390	215.8	140.7	48,660	8	62.1	13,420	216.8	141.4	48,660	8	62.5	13,460
75'	230.3	150.0	56,990	8	66.0	14,230	231.3	150.7	56,990	8	66.5	14,270	232.3	151.4	56,990	8	66.9	14,300
80'	245.8	160.0	66,830	8	70.4	15,230	246.9	160.7	66,830	8	70.8	15,260	247.9	161.4	66,830	8	71.2	15,290
85'	261.4	170.0	76,230	8	75.1	16,070	262.4	170.7	76,230	8	75.5	16,100	263.5	171.4	76,230	8	75.9	16,130
90'	276.9	180.0	86,030	8	79.5	17,060	278.0	180.7	86,030	8	79.9	17,090	279.0	181.4	86,030	8	80.3	17,130
95'	292.5	190.0	103,210	8	83.8	17,900	293.5	190.7	103,210	8	84.3	17,930	294.6	191.4	103,210	8	84.7	17,970
100'	308.0	200.0	108,100	8	88.2	18,900	309.1	200.7	108,100	8	88.6	18,930	310.1	201.4	108,100	8	89.0	18,960

SUMMARY OF QUANTITIES BEARING ASSEMBLY STRUCTURAL STEEL (PER EACH ASSEMBLY)	
SPAN	WEATHERING STEEL FIXED OR EXPANSION BEARING ASSEMBLY (LB)
30' THRU 90'	150
95' AND 100'	160

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 "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 A. Dush* DATE 9-9-2011

OKLAHOMA DEPARTMENT OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)

**SUPERSTRUCTURE QUANTITIES
ROLLED BEAMS**

32' CLEAR ROADWAY - CONVENTIONAL - SKEWED 0°

2009 SPECIFICATIONS CB32-C-SKO-SPR-QUAN-RB 01E
CB-567E