

SUPERSTRUCTURE QUANTITIES PER SPAN																			
SPAN	FIXED PIER TO FIXED PIER									FIXED PIER TO EXPANSION PIER									
	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.) ①		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.) ①		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③	EXPANSION BEARING ASSEMBLY (EACH) ③
					TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS						TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS		
30'	133.3	60.0	15,490	33.1	7,400	7,570	54	53	8	133.3	60.0	15,490	33.2	7,490	7,700	54	53	4	4
35'	155.6	70.0	18,300	38.5	8,480	8,770	64	61	8	155.6	70.0	18,300	38.6	8,710	8,900	63	61	4	4
40'	177.8	80.0	21,630	43.9	9,700	9,980	72	70	8	177.8	80.0	21,630	44.0	9,800	10,100	73	70	4	4
45'	200.0	90.0	26,750	49.3	10,780	11,180	82	79	8	200.0	90.0	26,750	49.4	11,010	11,310	81	79	4	4
50'	222.2	100.0	31,990	54.7	12,090	12,460	90	87	8	222.2	100.0	31,990	54.8	12,180	12,590	90	87	4	4
55'	244.4	110.0	37,520	60.2	13,160	13,660	99	96	8	244.4	110.0	37,520	60.2	13,390	13,790	99	96	4	4
60'	266.7	120.0	43,890	65.6	14,390	14,870	108	104	8	266.7	120.0	43,890	65.6	14,480	14,990	108	104	4	4
65'	288.9	130.0	51,740	70.9	15,460	16,070	118	113	8	288.9	130.0	51,740	71.0	15,690	16,190	117	113	4	4
70'	311.1	140.0	59,630	76.3	16,770	17,350	126	122	8	311.1	140.0	59,630	76.4	16,860	17,480	126	122	4	4
75'	333.3	150.0	68,320	82.0	17,850	18,550	133	128	8	333.3	150.0	68,320	82.1	18,070	18,680	132	128	4	4
80'	355.6	160.0	79,140	87.4	19,070	19,760	141	136	8	355.6	160.0	79,140	87.5	19,170	19,880	142	136	4	4
85'	377.8	170.0	95,040	92.9	20,150	20,960	151	145	8	377.8	170.0	95,040	92.9	20,380	21,080	150	145	4	4
90'	400.0	180.0	110,150	98.3	21,380	22,160	159	153	8	400.0	180.0	110,150	98.3	21,470	22,290	159	153	4	4
95'	422.2	190.0	123,340	103.7	22,450	23,360	168	162	8	422.2	190.0	123,340	103.7	22,680	23,490	168	162	4	4
100'	444.4	200.0	140,130	109.1	23,680	24,560	177	170	8	444.4	200.0	140,130	109.2	23,770	24,690	177	170	4	4

- ① Quantity includes provision for laps required in longitudinal reinforcing as follows:  
 30' thru 45' Spans - 1/2 lap  
 50' thru 65' Spans - 1 lap  
 70' thru 100' Spans - 1 1/2 laps  
 Laps account for adjacent span combinations and are approximate. The Department will not pay for additional quantities of reinforcing steel in excess of the quantities shown in the plans.
- ② Quantity includes provision for laps required in longitudinal reinforcing as follows:  
 55' thru 100' Spans - 1 lap
- ③ Provide and install Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of stainless steel per span per Bearing Assembly type. Include all costs associated with providing and installing the Elastomeric Pads, Anchor Plates, Contact Plates, Contact Angles and Anchor Bolts, Nuts and Washers, including all material, labor, equipment and incidentals necessary to complete the work shown in the plans in the contract unit price of FIXED BEARING ASSEMBLIES or EXPANSION BEARING ASSEMBLIES as applicable.

BEARING ASSEMBLY STAINLESS STEEL QUANTITIES PER SPAN				
SPAN	FIXED BEARING TO FIXED BEARING	FIXED BEARING TO EXPANSION BEARING		EXPANSION BEARING TO EXPANSION BEARING
	ASSEMBLIES (LB.)	ASSEMBLIES (LB.)	ASSEMBLIES (LB.)	ASSEMBLIES (LB.)
30'-50'	1,370	680	710	1,410
55'-100'	1,460	730	730	1,460

SEALED EXPANSION JOINT QUANTITY PER EXPANSION JOINT			
DESCRIPTION	UNIT	TR4 W/ OPENINGS	TR4 W/O OPENINGS
SEALED EXPANSION JOINT	L.F.	43.2	41.8

CONSTRUCTION JOINT SEAL QUANTITIES		
ITEM	UNIT	EACH FIXED PIER
SEALER CRACK PREPARATION	L.F.	40.8
SEALER RESIN	GAL.	0.5

SUPERSTRUCTURE QUANTITIES PER SPAN									
SPAN	EXPANSION PIER TO EXPANSION PIER								FIXED OR EXPANSION BEARING ASSEMBLY (EACH) ③
	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.) ②		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		
					TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS	
30'	133.3	60.0	15,490	33.2	7,490	7,750	55	53	8
35'	155.6	70.0	18,300	38.6	8,700	8,950	63	61	8
40'	177.8	80.0	21,630	44.0	9,790	10,150	73	70	8
45'	200.0	90.0	26,750	49.4	11,000	11,350	82	79	8
50'	222.2	100.0	31,990	54.8	12,090	12,550	91	87	8
55'	244.4	110.0	37,520	60.3	13,470	13,920	99	96	8
60'	266.7	120.0	43,890	65.6	14,560	15,120	108	104	8
65'	288.9	130.0	51,740	71.0	15,770	16,320	117	113	8
70'	311.1	140.0	59,630	76.4	16,860	17,520	127	122	8
75'	333.3	150.0	68,320	82.1	18,070	18,730	133	128	8
80'	355.6	160.0	79,140	87.5	19,160	19,930	142	136	8
85'	377.8	170.0	95,040	92.9	20,370	21,130	150	145	8
90'	400.0	180.0	110,150	98.4	21,460	22,330	160	153	8
95'	422.2	190.0	123,340	103.8	22,680	23,540	168	162	8
100'	444.4	200.0	140,130	109.2	23,770	24,740	177	170	8

APPROVED BY BRIDGE ENGINEER *Scott J. Smith* DATE *4/2/10*

OKLAHOMA DEPT. OF TRANSPORTATION  
 BRIDGE STANDARD (ENGLISH)  
**SUPERSTRUCTURE QUANTITIES**  
**ROLLED BEAMS**  
**CONVENTIONAL (SHEET 2 OF 2)**

2009 SPECIFICATIONS | B40-C-SPR-QUAN-RB-2 | 03E | B-413E