

- ① Quantity includes provision for laps required in longitudinal reinforcing as follows:
 30' thru 45' Spans - 1/2 lap
 50' and 55' Spans - 1 lap
 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 At abutments, provide and install Fixed Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of structural steel per span for the Fixed Bearing Assemblies. Include all costs associated with providing and installing the Anchor Plate and Anchor Bars, 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.
- ③ At all piers, provide and install Expansion Bearing Assemblies of the size, shape and location as detailed in the plans. See schedule for estimated total of stainless steel per span for the Expansion Bearing Assemblies. Include all costs associated with providing and installing the Elastomeric Pads, Anchor Plates, Contact Plates, Anchor Bars 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 EXPANSION BEARING ASSEMBLIES.
- ④ Provide and install Elastomeric Pads between the top surface of the Beams and the bottom surface of the Deck Slab. The Elastomeric Pads are to be of the size and shape as detailed in the plans and located at each Beam end above the Piers. Include all costs associated with providing and installing the Elastomeric Pads above the Beams, including all material, labor, equipment, and incidentals necessary to complete the work as shown in the plans, in the contract unit price of ELASTOMERIC BEARING PADS.

BEARING ASSEMBLY STAINLESS/STRUCTURAL STEEL QUANTITIES PER SPAN			
ABUTMENT TO ABUTMENT	ABUTMENT TO PIER	PIER TO PIER	
FIXED BEARING ASSEMBLIES (LB.)	FIXED BEARING ASSEMBLIES (LB.)	EXPANSION BEARING ASSEMBLIES (LB.)	EXPANSION BEARING ASSEMBLIES (LB.)
590	300	690	1,380

SUPERSTRUCTURE QUANTITIES PER SPAN										
SPAN	ABUTMENT TO ABUTMENT									
	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	SAW-CUT GROOVING (S.Y.)	CONCRETE RAIL (TR4) (L.F.)	STRUCTURAL STEEL (LB.)	CLASS AA CONCRETE (C.Y.)	EPOXY COATED REINFORCING STEEL (LB.)		WATER REPELLENT (VISUALLY INSPECTED) (S.Y.)		FIXED BEARING ASSEMBLY (EACH) ②
						TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS	
30'	119	135.6	61.0	150	62.9	9,690	9,860	119	117	8
35'	139	157.8	71.0	150	68.3	10,810	11,090	134	132	8
40'	159	180.0	81.0	150	73.6	12,040	12,310	149	147	8
45'	179	202.2	91.0	150	79.0	13,150	13,540	165	162	8
50'	199	224.4	101.0	150	84.3	14,390	14,760	179	177	8
55'	219	246.7	111.0	150	89.7	15,500	15,990	195	191	8

SUPERSTRUCTURE QUANTITIES PER SPAN												
SPAN	ABUTMENT TO PIER											
	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	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 BEARING ASSEMBLY (EACH) ②	EXPANSION BEARING ASSEMBLY (EACH) ③	ELASTOMERIC BEARING PADS (EACH) ④
						TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS			
30'	119	134.4	60.5	300	49.4	9,800	9,980	105	103	4	4	4
35'	139	161.1	70.5	300	54.8	11,040	11,210	120	118	4	4	4
40'	159	183.3	80.5	300	60.1	12,150	12,430	135	133	4	4	4
45'	179	205.6	90.5	300	65.5	13,390	13,660	151	148	4	4	4
50'	199	227.8	100.5	300	70.9	14,580	14,960	166	163	4	4	4
55'	219	250.0	110.5	300	76.2	15,820	16,180	181	178	4	4	4

SUPERSTRUCTURE QUANTITIES PER SPAN											
SPAN	PIER TO PIER										
	PRESTRESSED CONCRETE BEAMS (TYPE II) (L.F.)	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.)		EXPANSION BEARING ASSEMBLY (EACH) ③	ELASTOMERIC BEARING PADS (EACH) ④
						TR4 W/ OPENINGS	TR4 W/O OPENINGS	TR4 W/ OPENINGS	TR4 W/O OPENINGS		
30'	119	133.3	60.0	450	36.0	9,970	10,040	91	89	8	8
35'	139	155.6	70.0	450	41.3	11,080	11,260	106	104	8	8
40'	159	177.8	80.0	450	46.7	12,310	12,490	121	119	8	8
45'	179	200.0	90.0	450	52.0	13,430	13,710	137	134	8	8
50'	199	222.2	100.0	450	57.4	14,740	15,010	152	149	8	8
55'	219	244.4	110.0	450	62.8	15,860	16,240	167	164	8	8

CONSTRUCTION JOINT SEAL QUANTITIES		
ITEM	UNIT	EACH PIER
SEALER CRACK PREPARATION	L.F.	81.5
SEALER RESIN	GAL.	0.9

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

OKLAHOMA DEPT. OF TRANSPORTATION
 BRIDGE STANDARD (ENGLISH)
SUPERSTRUCTURE QUANTITIES
TYPE II P.C. BEAMS
INTEGRAL

2009 SPECIFICATIONS | B40-I-SPR-QUAN-PCB-II | 03E
 B-205E