

		ABUTMENTS ①	
BEAM TYPE	INTEGRAL	CONVENTIONAL	
TYPE II and TYPE B	B40-I-ABUT-PC2-1 B-40E	B40-C-ABUT-PC2-1 B-240E	B40-C-ABUT-PC2-1 B-240E
	B40-I-ABUT-PC2-2 B-41E	B40-C-ABUT-PC2-2 B-241E	B40-C-ABUT-PC2-2 B-241E
TYPE III and TYPE C	B40-I-ABUT-MISC B-60E	B40-C-ABUT-MISC B-260E	B40-C-ABUT-MISC B-260E
	B40-I-ABUT-PC3-1 B-42E	B40-C-ABUT-PC3-1 B-242E	B40-C-ABUT-PC3-1 B-242E
TYPE IV	B40-I-ABUT-PC4-1 B-44E	B40-C-ABUT-PC4-1 B-244E	B40-C-ABUT-PC4-1 B-244E
	B40-I-ABUT-PC4-2 B-45E	B40-C-ABUT-PC4-2 B-245E	B40-C-ABUT-PC4-2 B-245E
TYPE BT-72 and TYPE J	B40-I-ABUT-MISC B-60E	B40-C-ABUT-MISC B-260E	B40-C-ABUT-MISC B-260E
	B40-I-ABUT-PC5-1 B-46E	B40-C-ABUT-PC5-1 B-246E	B40-C-ABUT-PC5-1 B-246E
ROLLED BEAMS	B40-I-ABUT-PC5-2 B-47E	B40-C-ABUT-PC5-2 B-247E	B40-C-ABUT-PC5-2 B-247E
	B40-I-ABUT-MISC B-60E	B40-C-ABUT-MISC B-260E	B40-C-ABUT-MISC B-260E
W27, W30 and W33 (30' thru 50' SPANS)	B40-I-ABUT-RB-3050-1 B-48E	B40-C-ABUT-RB-3050-1 B-248E	B40-C-ABUT-RB-3050-1 B-248E
	B40-I-ABUT-RB-3050-2 B-49E	B40-C-ABUT-RB-3050-2 B-249E	B40-C-ABUT-RB-3050-2 B-249E
W36 and W40 (55' thru 100' SPANS)	B40-I-ABUT-RB-55100-1 B-50E	B40-C-ABUT-RB-55100-1 B-250E	B40-C-ABUT-RB-55100-1 B-250E
	B40-I-ABUT-RB-55100-2 B-51E	B40-C-ABUT-RB-55100-2 B-251E	B40-C-ABUT-RB-55100-2 B-251E
	B40-I-ABUT-MISC B-60E	B40-C-ABUT-MISC B-260E	B40-C-ABUT-MISC B-260E

PRECAST CONCRETE BEAMS			
PRECEDING SPAN	FOLLOWING SPAN	INTEGRAL OR CONVENTIONAL	
TYPE II	TYPE II	B40-PIER-STD B-29E	
	TYPE III	B40-PIER-SCAP-6 B-31E	
	TYPE IV	B40-PIER-SCAP-18 B-33E	
TYPE B	TYPE B	B40-PIER-STD B-29E	
	TYPE C	B40-PIER-SCAP-6 B-31E	
	TYPE IX	B40-PIER-SCAP-18 B-33E	
TYPE III	TYPE II	B40-PIER-SCAP-6 B-31E	
	TYPE III	B40-PIER-STD B-29E	
	TYPE IX	B40-PIER-SCAP-9 B-32E	
TYPE C	TYPE B	B40-PIER-SCAP-6 B-31E	
	TYPE C	B40-PIER-STD B-29E	
	TYPE IX	B40-PIER-SCAP-9 B-32E	
TYPE IV	TYPE II	B40-PIER-SCAP-18 B-33E	
	TYPE B	B40-PIER-SCAP-18 B-33E	
	TYPE III	B40-PIER-SCAP-9 B-32E	
TYPE IX	TYPE C	B40-PIER-SCAP-9 B-32E	
	TYPE IX	B40-PIER-STD B-29E	
	TYPE J	B40-PIER-STD B-29E	
TYPE BT-72	TYPE II	B40-PIER-STD B-29E	
	TYPE IX	B40-PIER-SCAP-18 B-33E	
	TYPE J	B40-PIER-SCAP-18 B-33E	
TYPE J	TYPE J	B40-PIER-STD B-29E	
	TYPE IX	B40-PIER-SCAP-18 B-33E	
	TYPE J	B40-PIER-STD B-29E	

PIER CAPS ②			
ROLLED BEAMS			
PRECEDING SPAN	FOLLOWING SPAN	INTEGRAL OR CONVENTIONAL	
30'	30'	B40-PIER-STD B-29E	
	35' thru 50'	B40-PIER-SPED B-30E	
	55' thru 100'	B40-PIER-SCAP-6 B-31E	
35'	30'	B40-PIER-SPED B-30E	
	35' thru 45'	B40-PIER-STD B-29E	
	50' thru 60'	B40-PIER-SPED B-30E	
40'	65' thru 100'	B40-PIER-SCAP-6 B-31E	
	30'	B40-PIER-SPED B-30E	
	35' thru 45'	B40-PIER-STD B-29E	
45'	30' thru 45'	B40-PIER-STD B-29E	
	50' thru 60'	B40-PIER-SPED B-30E	
	65' thru 100'	B40-PIER-SCAP-6 B-31E	
50'	30' thru 45'	B40-PIER-SPED B-30E	
	50'	B40-PIER-STD B-29E	
	55' thru 95'	B40-PIER-SPED B-30E	
55'	100'	B40-PIER-SCAP-6 B-31E	
	30'	B40-PIER-SCAP-6 B-31E	
	35' thru 50'	B40-PIER-SPED B-30E	
60'	30' thru 45'	B40-PIER-SCAP-6 B-31E	
	55' and 60'	B40-PIER-STD B-29E	
	65' thru 100'	B40-PIER-SPED B-30E	
65'	30' thru 45'	B40-PIER-SCAP-6 B-31E	
	50' thru 60'	B40-PIER-SPED B-30E	
	65' thru 80'	B40-PIER-STD B-29E	
70'	90' thru 100'	B40-PIER-SCAP-6 B-31E	
	30' thru 45'	B40-PIER-SCAP-6 B-31E	
	50' thru 60'	B40-PIER-SPED B-30E	
75'	50' thru 60'	B40-PIER-SPED B-30E	
	65' thru 80'	B40-PIER-STD B-29E	
	85' thru 100'	B40-PIER-SCAP-6 B-31E	
80'	30' thru 45'	B40-PIER-SCAP-6 B-31E	
	50' thru 60'	B40-PIER-SPED B-30E	
	65' thru 85'	B40-PIER-STD B-29E	
85'	90' thru 100'	B40-PIER-SPED B-30E	
	30' thru 45'	B40-PIER-SCAP-6 B-31E	
	50' thru 65'	B40-PIER-SPED B-30E	
90'	70', 80' thru 95'	B40-PIER-STD B-29E	
	75' and 100'	B40-PIER-SPED B-30E	
	30' thru 45'	B40-PIER-SCAP-6 B-31E	
95'	50' thru 80'	B40-PIER-SPED B-30E	
	85' thru 100'	B40-PIER-STD B-29E	
	30' thru 50'	B40-PIER-SCAP-6 B-31E	
100'	55' thru 85'	B40-PIER-SPED B-30E	
	90' thru 100'	B40-PIER-STD B-29E	

- ① Wing standards accommodate 1.5% maximum grade from Back Face of Abutment to End of Wing. Quantities for Piles and 6" Non-Perforated Pipe Underdrain must be computed for each application.
- ② Pier Cap standards only reflect cap configuration for possible beam combinations. Structural design and detailing must be performed for each application.

APPROVED BY BRIDGE ENGINEER *Chad Head* DATE *8/16/03*

OKLAHOMA DEPT. OF TRANSPORTATION  
BRIDGE STANDARD (ENGLISH)  
REFERENCE GUIDE TO  
STANDARD SERIES B40  
(SHEET 3 OF 6)

1999 SPECIFICATIONS B40-GUIDE-3