


2016 ROAD & BRIDGE STANDARDS

BCT-40

FOR TYPICAL SECTION, NOTES AND OTHER DETAILS, REFER TO STANDARD BCT-DT.

DIMENSIONS						REINFORCING STEEL																										
SPAN (FT.)	HGHT (FT.)	T1 TOP SLAB	T2 BOTTOM SLAB	T3 EXTERIOR WALL (IN.)	T4 INTERIOR WALL (IN.)	A	B	C	D	E	F	BH1			BH2			BH3			BH4			BV1			BV2					
												SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	a	LENGTH	SIZE	SPACING C-C	a	b	LENGTH	SIZE	SPACING C-C	LENGTH	SIZE	SPACING C-C	LENGTH
3	3	8"	8"	8"	8"	9	9'-0"	9	9'-0"	1	1'-0"	4	12"	10'-3"	4	12"	11'-4"	4	12"	2'-2"	4'-0"	4	12"	2'-4"	2'-8"	4'-9"	4	12"	4'-0"	4	12"	4'-0"
3	4	8"	8"	8"	8"	9	9'-0"	9	9'-0"	2	2'-0"	4	12"	10'-3"	4	12"	11'-4"	3	12"	2'-4"	4'-5"	4	12"	2'-4"	3'-2"	5'-3"	4	12"	5'-0"	4	12"	5'-0"
4	3	9 3/4"	9 3/4"	8"	8"	12	12'-0"	12	12'-0"	1	1'-0"	4	12"	13'-3"	4	12"	14'-4"	--	--	--	--	4	12"	2'-4"	2'-10"	4'-11"	4	12"	4'-3"	4	12"	4'-3"
4	4	9 3/4"	9 3/4"	8"	8"	12	12'-0"	12	12'-0"	2	2'-0"	4	12"	13'-3"	4	12"	14'-4"	--	--	--	--	4	12"	2'-4"	3'-4"	5'-5"	4	12"	5'-3"	4	12"	5'-3"
4	5	9 3/4"	9 3/4"	8"	8"	12	12'-0"	12	12'-0"	3	3'-0"	4	12"	13'-3"	4	12"	14'-4"	--	--	--	--	4	12"	2'-4"	3'-10"	5'-11"	4	12"	6'-3"	4	12"	6'-3"
4	6	9 3/4"	9 3/4"	8"	8"	12	12'-0"	12	12'-0"	4	4'-0"	4	12"	13'-3"	4	12"	14'-4"	4	12"	2'-11"	5'-6"	4	12"	2'-4"	4'-4"	6'-5"	5	12"	7'-3"	4	12"	7'-3"
5	3	12"	12"	8"	8"	15	15'-0"	15	15'-0"	1	1'-0"	4	11"	16'-4"	4	11"	17'-3"	--	--	--	--	4	11"	2'-4"	3'-0"	5'-1"	4	12"	4'-8"	4	12"	4'-8"
5	4	12"	12"	8"	8"	15	15'-0"	15	15'-0"	2	2'-0"	4	11"	16'-4"	4	11"	17'-3"	--	--	--	--	4	11"	2'-4"	3'-6"	5'-7"	4	12"	5'-8"	4	12"	5'-8"
5	5	11 3/4"	11 3/4"	8"	8"	15	15'-0"	15	15'-0"	3	3'-0"	4	10"	16'-4"	4	10"	17'-3"	--	--	--	--	4	10"	2'-4"	4'-0"	6'-1"	4	12"	6'-7"	4	12"	6'-7"
5	6	11 3/4"	11 3/4"	8"	8"	15	15'-0"	15	15'-0"	4	4'-0"	4	10"	16'-4"	4	10"	17'-3"	--	--	--	--	4	10"	2'-4"	4'-6"	6'-7"	5	12"	7'-7"	4	12"	7'-7"
5	7	11 3/4"	11 3/4"	8"	8"	15	15'-0"	15	15'-0"	5	5'-0"	4	10"	16'-0"	4	10"	17'-3"	--	--	--	--	5	10"	2'-6"	5'-2"	7'-3"	5	8 1/2"	8'-7"	4	12"	8'-7"
6	4	14"	14"	8"	8"	18	18'-0"	18	18'-0"	2	2'-0"	4	9"	19'-4"	4	9"	20'-3"	--	--	--	--	4	9"	2'-4"	3'-8"	5'-9"	4	12"	6'-0"	4	12"	6'-0"
6	5	14"	14"	8"	8"	18	18'-0"	18	18'-0"	3	3'-0"	4	10"	19'-4"	5	10"	20'-3"	--	--	--	--	4	10"	2'-4"	4'-2"	6'-3"	4	12"	7'-0"	4	12"	7'-0"
6	6	14"	14"	8"	8"	18	18'-0"	18	18'-0"	4	4'-0"	4	10"	19'-4"	5	10"	20'-3"	--	--	--	--	4	10"	2'-4"	4'-8"	6'-9"	5	12"	8'-0"	4	12"	8'-0"
6	7	13 3/4"	13 3/4"	8"	8"	18	18'-0"	18	18'-0"	5	5'-0"	4	10"	19'-4"	5	10"	20'-3"	3	10"	3'-5"	6'-7"	4	10"	2'-4"	5'-2"	7'-3"	5	9"	8'-11"	4	12"	8'-11"
6	8	14"	14"	8 1/2"	8"	18	18'-0"	18	18'-0"	6	6'-0"	4	9"	19'-1"	4	9"	20'-5"	--	--	--	--	5	9"	2'-6"	5'-10"	8'-0"	6	9 1/2"	10'-0"	4	12"	10'-0"
7	4	16"	16"	8"	8"	21	21'-0"	21	21'-0"	2	2'-0"	5	9"	22'-4"	5	9"	23'-3"	--	--	--	--	4	9"	2'-9"	3'-10"	6'-4"	4	12"	6'-4"	4	12"	6'-4"
7	6	15 3/4"	15 3/4"	8"	8"	21	21'-0"	21	21'-0"	4	4'-0"	5	9"	22'-4"	5	9"	23'-3"	--	--	--	--	4	9"	2'-9"	4'-10"	7'-4"	5	12"	8'-3"	4	12"	8'-3"
7	8	15 3/4"	15 3/4"	8"	8"	21	21'-0"	21	21'-0"	6	6'-0"	5	9"	22'-4"	5	9"	23'-3"	4	9"	3'-9"	7'-3"	4	9"	2'-9"	5'-10"	8'-4"	5	6"	10'-3"	4	12"	10'-3"
7	10	15 3/4"	15 3/4"	10 1/2"	8"	21	21'-0"	21	21'-0"	8	8'-0"	5	9"	22'-5"	5	9"	23'-9"	3	9"	4'-2"	8'-2"	5	9"	2'-11"	7'-0"	9'-6"	6	6 1/2"	12'-3"	4	12"	12'-3"
8	4	18 1/2"	18 1/2"	8"	8"	24	24'-0"	24	24'-0"	2	2'-0"	5	8"	25'-4"	5	8"	26'-3"	--	--	--	--	4	8"	2'-9"	4'-1"	6'-6"	4	12"	6'-9"	4	10 1/2"	6'-9"
8	6	18"	18"	8"	8"	24	24'-0"	24	24'-0"	4	4'-0"	5	8"	25'-4"	5	8"	26'-3"	--	--	--	--	4	8"	2'-9"	5'-0"	7'-6"	5	12"	8'-7"	4	10 1/2"	8'-7"
8	8	18"	18"	8"	8"	24	24'-0"	24	24'-0"	6	6'-0"	5	8"	25'-4"	5	8"	26'-3"	3	8"	4'-0"	7'-9"	4	8"	2'-9"	6'-0"	8'-6"	5	6"	10'-7"	4	10 1/2"	10'-7"
8	10	18"	18"	10 1/2"	8"	24	24'-0"	24	24'-0"	8	8'-0"	5	8"	25'-5"	5	8"	26'-9"	3	8"	4'-4"	8'-6"	5	8"	2'-11"	7'-2"	9'-9"	6	9"	12'-7"	4	10 1/2"	12'-7"
9	4	20"	20"	8"	8"	27	27'-0"	27	27'-0"	2	2'-0"	6	9"	28'-4"	6	9"	29'-3"	--	--	--	--	4	9"	3'-2"	4'-2"	7'-1"	4	12"	7'-0"	4	10"	7'-0"
9	6	20"	20"	8"	8"	27	27'-0"	27	27'-0"	4	4'-0"	6	9"	28'-4"	6	9"	29'-3"	--	--	--	--	4	9"	3'-2"	5'-2"	8'-1"	5	12"	9'-0"	4	10"	9'-0"
9	8	19 3/4"	19 3/4"	8"	8"	27	27'-0"	27	27'-0"	6	6'-0"	6	9"	28'-0"	6	9"	29'-3"	--	--	--	--	5	9"	3'-4"	6'-4"	9'-3"	5	6"	10'-11"	4	10"	10'-11"
9	10	20"	20"	10 1/2"	8"	27	27'-0"	27	27'-0"	8	8'-0"	6	9"	28'-2"	6	9"	29'-9"	--	--	--	--	6	9"	3'-5"	7'-6"	10'-6"	6	9"	13'-0"	4	10"	13'-0"
9	12	19 3/4"	19 3/4"	12 1/2"	8"	27	27'-0"	27	27'-0"	10	10'-0"	6	9"	28'-3"	6	9"	30'-0"	--	--	--	--	7	9"	3'-7"	8'-9"	11'-10"	6	5 1/2"	14'-11"	4	10"	14'-11"
10	4	22"	22"	8"	8"	30	30'-0"	30	30'-0"	2	2'-0"	6	9"	31'-3"	6	9"	32'-3"	--	--	--	--	4	9"	3'-2"	4'-5"	7'-3"	4	12"	7'-4"	4	10"	7'-4"
10	6	22"	22"	8"	8"	30	30'-0"	30	30'-0"	4	4'-0"	6	9"	31'-3"	6	9"	32'-3"	--	--	--	--	4	9"	3'-2"	5'-5"	8'-3"	5	12"	9'-3"	4	10"	9'-3"
10	8	22"	22"	8"	8"	30	30'-0"	30	30'-0"	6	6'-0"	6	9"	31'-0"	6	9"	32'-3"	--	--	--	--	5	9"	3'-4"	6'-6"	9'-6"	5	6"	11'-3"	4	10"	11'-3"
10	10	22"	22"	10"	8"	30	30'-0"	30	30'-0"	8	8'-0"	7	9"	31'-1"	6	9"	32'-7"	--	--	--	--	6	9"	4'-1"	7'-8"	11'-4"	4	4"	13'-3"	4	10"	13'-3"
10	12	22 1/4"	22 1/4"	12 1/2"	8"	30	30'-0"	30	30'-0"	10	10'-0"	6	9"	31'-6"	6	9"	33'-0"	3	9"	5'-2"	10'-0"	6	9"	3'-5"	8'-9"	11'-9"	6	7 1/2"	15'-4"	4	10"	15'-4"
12	6	26 1/2"	26 1/2"	8"	8"	36	36'-0"	36	36'-0"	4	4'-0"	6	8"	37'-3"	6	8"	38'-4"	--	--	--	--	4	8"	3'-2"	5'-9"	8'-7"	5	12"	10'-1"	4	9 1/2"	10'-1"
12	8	26 1/2"	26 1/2"	8"	8"	36	36'-0"	36	36'-0"	6	6'-0"	6	8"	37'-3"	6	8"	38'-4"	3	8"	4'-8"	9'-2"	4	8"	3'-2"	6'-9"	9'-7"	6	9"	12'-1"	4	9 1/2"	12'-1"
12	10	26 1/2"	26 1/2"	9"	8"	36	36'-0"	36	36'-0"	8	8'-0"	6	8"	37'-2"	6	8"	38'-6"	3	8"	5'-1"	9'-11"	5	8"	3'-4"	7'-11"	10'-10"	8	11 1/2"	14'-1"	4	9 1/2"	14'-1"
12	12	26 1/2"	26 1/2"	12"	8"	36	36'-0"	36	36'-0"	10	10'-0"	6	8"	37'-8"	6	8"	39'-0"	4	8"	5'-6"	10'-8"	5	8"	3'-4"	8'-11"	11'-10"	7	10"	16'-1"	4	9"	16'-1"

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE

 ROAD AND BRIDGE STANDARDS	
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30 TO 40 FT. FILLS
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE