



DIMENSION DATA	
H =	
L =	
R =	
W =	
f =	
h =	
w =	

csa20.dgn

06-14-2010

Sealed and Signed by:
Julius F.J. Volgyi Jr.
Lic. No. 010487
On the date of
June 14, 2010

A copy of the original sealed and signed standard drawing is on file in the Central Office.

CS-A2-0

VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER

Not to scale

© 2010, Commonwealth of Virginia

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
STRUCTURE AND BRIDGE DIVISION				
ABUTMENTS				
No.	Description	Date	Designed:	Date
			Drawn:	Plan No.
			Checked:	Sheet No.
Revisions			CS-A2-0	

CAST-IN-PLACE CONCRETE SLAB SPANS

**ABUTMENTS
0° SKEW – FILL SLOPE 2 : 1**

NOTES TO DESIGNER:

Standard to be used when abutments are on spread footings.

Standard is for: 0° skew
2 : 1 fill slope

TABLE OF DIMENSIONS AND QUANTITIES									
ABUTMENT*					2-WINGS				
H	w	W	Neat – CY per ft. of R	12" Ftg – CY per ft. of R	L	h	f	Neat CY	12" Footing CY
4'-0"	2'-4"	3'-10"	0.260R	0.142R	4'-0"	2'-3"	6 1/4"	3.9	2.3
5'-0"	2'-9"	4'-3"	0.360R	0.157R	5'-0"	2'-9"	8 1/2"	5.9	2.8
6'-0"	3'-2"	4'-8"	0.475R	0.173R	7'-0"	3'-0"	10"	8.9	3.5
7'-0"	3'-7"	5'-1"	0.606R	0.188R	8'-0"	3'-6"	1'-0 1/4"	12.0	4.1
8'-0"	3'-11"	5'-5"	0.740R	0.201R	10'-0"	3'-9"	1'-1 1/4"	16.2	4.9
9'-0"	4'-4"	5'-10"	0.901R	0.216R	11'-0"	4'-3"	1'-3 1/2"	20.7	5.5
10'-0"	4'-9"	6'-3"	1.076R	0.232R	13'-0"	4'-6"	1'-4 7/8"	26.7	6.5
11'-0"	5'-2"	6'-8"	1.267R	0.247R	14'-0"	5'-0"	1'-7 1/8"	32.8	7.2
12'-0"	5'-7"	7'-1"	1.474R	0.262R	16'-0"	5'-0"	1'-7 1/2"	40.3	8.3
13'-0"	5'-11"	7'-5"	1.676R	0.275R	17'-0"	5'-6"	1'-9 3/8"	47.7	9.1
14'-0"	6'-4"	7'-10"	1.912R	0.290R	19'-0"	5'-9"	1'-10 5/8"	57.7	10.3

* To compute concrete quantity of the abutment, multiply volume as tabulated by R.

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

PROJECT/TITLE BLOCKS:

Project block and title block shall be completed in accordance with Manual of the Structure and Bridge Division, Volume V – Part 2, Chapter 4.

DIMENSION DATA:

Enter H, L, R, W, h, f, and w dimensions in the DIMENSION DATA table.

TYPICAL BRIDGE SEATS:

If approach slab is required, replace details with cell BSA.

CAST-IN-PLACE CONCRETE SLAB SPANS

**ABUTMENTS
0° SKEW – FILL SLOPE 2 : 1**

NOTES TO DESIGNER(cont'd):

SECTION ON CENTERLINE:

If approach slab is required, replace details with cell PT4A.