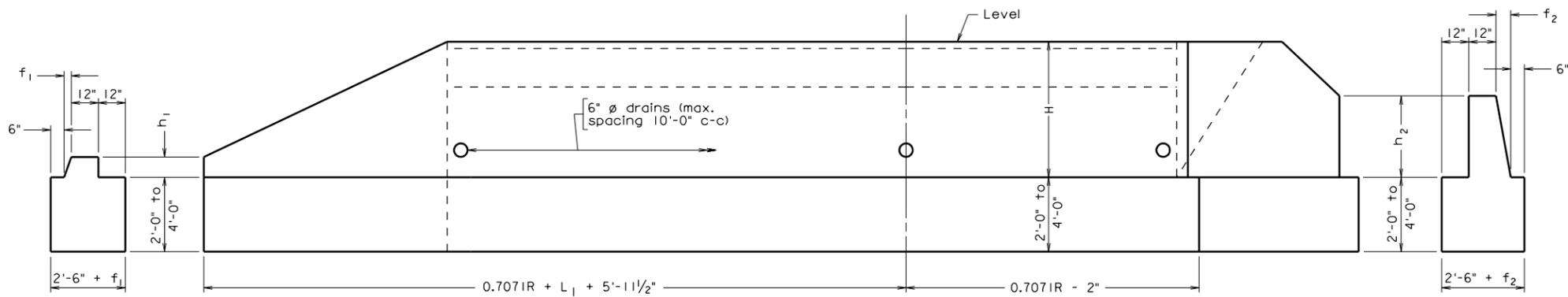
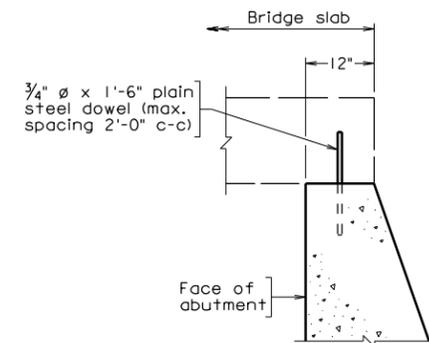


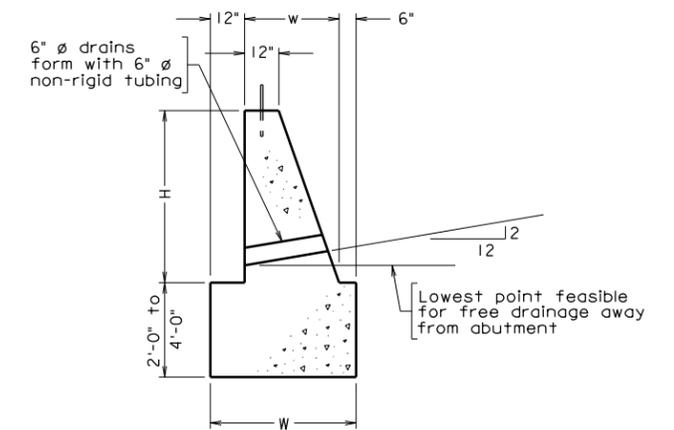
PLAN



FRONT ELEVATION



TYPICAL BRIDGE SEATS



SECTION ON C-C

DIMENSION DATA	
H =	
L <sub>1</sub> =	
L <sub>2</sub> =	
R =	
w =	
f <sub>1</sub> =	
f <sub>2</sub> =	
h <sub>1</sub> =	
h <sub>2</sub> =	
w =	

csa0245.dgn

06-14-2010

CS-A2-45

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.

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-A2-45	

## CAST-IN-PLACE CONCRETE SLAB SPANS

### ABUTMENTS 45° SKEW – FILL SLOPE 2 : 1

#### NOTES TO DESIGNER:

Standard to be used when abutments are on spread footings.

Standard is for: 45° skew  
2 : 1 fill slope

<b>TABLE OF DIMENSIONS AND QUANTITIES</b>									
<b>ABUTMENT*</b>					<b>STRAIGHT WING</b>				
H	w	W	Neat – CY per ft. of R	12" Ftg – CY per ft. of R	L <sub>1</sub>	h <sub>1</sub>	f <sub>1</sub>	Neat CY	12" Footing CY
4'-0"	2'-4"	3'-10"	0.368R	0.201R	7'-0"	9"	3"	2.6	1.6
5'-0"	2'-9"	4'-3"	0.509R	0.223R	9'-0"	9"	3 1/8"	3.9	1.9
6'-0"	3'-2"	4'-8"	0.672R	0.244R	11'-0"	9"	3 1/4"	5.5	2.3
7'-0"	3'-7"	5'-1"	0.857R	0.266R	13'-0"	9"	3 1/4"	7.4	2.7
8'-0"	3'-11"	5'-5"	1.047R	0.284R	16'-0"	9"	3 1/4"	9.8	3.3
9'-0"	4'-4"	5'-10"	1.274R	0.306R	18'-0"	9"	3 3/8"	12.4	3.7
10'-0"	4'-9"	6'-3"	1.522R	0.327R	20'-0"	9"	3 3/8"	15.3	4.2
11'-0"	5'-2"	6'-8"	1.792R	0.349R	22'-0"	9"	3 3/8"	18.6	4.7
12'-0"	5'-7"	7'-1"	2.085R	0.371R	24'-0"	9"	3 3/8"	22.2	5.3
13'-0"	5'-11"	7'-5"	2.371R	0.389R	26'-0"	9"	3 3/8"	26.1	5.8
14'-0"	6'-4"	7'-10"	2.705R	0.410R	28'-0"	9"	3 3/8"	30.4	6.4
<b>SKEWED WING</b>						* To compute concrete quantity of the abutment, multiply volume as tabulated by R.			
H	L <sub>2</sub>	h <sub>2</sub>	f <sub>2</sub>	Neat CY	12" Footing CY				
4'-0"	2'-0"	2'-9"	5"	1.3	1.0				
5'-0"	3'-0"	3'-0"	6 1/4"	1.9	1.2				
6'-0"	4'-0"	3'-3"	7 1/2"	2.6	1.4				
7'-0"	5'-0"	3'-9"	9 3/8"	3.5	1.7				
8'-0"	6'-0"	4'-0"	10 1/4"	4.6	2.0				
9'-0"	7'-0"	4'-3"	11 1/2"	5.8	2.3				
10'-0"	7'-0"	5'-3"	1'-2 7/8"	7.0	2.5				
11'-0"	8'-0"	5'-9"	1'-4 7/8"	8.8	2.8				
12'-0"	9'-0"	6'-0"	1'-6 1/8"	10.6	3.2				
13'-0"	10'-0"	6'-3"	1'-7"	12.6	3.5				
14'-0"	11'-0"	6'-9"	1'-9 1/8"	15.2	4.0				

**CAST-IN-PLACE CONCRETE SLAB SPANS**

**ABUTMENTS  
45° SKEW – FILL SLOPE 2 : 1**

**NOTES TO DESIGNER(cont'd):**

**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<sub>1</sub>, L<sub>2</sub>, R, W, h<sub>1</sub>, h<sub>2</sub>, f<sub>1</sub>, f<sub>2</sub>, and w dimensions in the DIMENSION DATA table.

TYPICAL BRIDGE SEATS:

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

ECTION ON CENTERLINE:

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