

BCW-22

WING	SIZE	WF5						WF6						WF7						WH1		WH3					
		o			LENGTH			SIZE	LENGTH			SIZE	o			LENGTH			SIZE	LENGTH	SIZE	LENGTH					
		From	To	Vary By	From	To	Vary By		From	To	Vary By		From	To	Vary By	From	To	Vary By									
A	---	---	---	---	---	---	---	4	3'-6"	2'-7 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	8'-6"	4	9'-0"			
B	---	---	---	---	---	---	---	4	3'-6"	2'-6"	0°	1/2"	---	---	---	---	---	---	---	---	4	10'-0"	4	10'-7"			
C	---	---	---	---	---	---	---	4	3'-6"	2'-7"	0°	1/2"	---	---	---	---	---	---	---	---	4	11'-0"	4	11'-8"			
D	---	---	---	---	---	---	---	4	3'-6"	2'-6 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	12'-6"	4	13'-3"			
E	---	---	---	---	---	---	---	4	3'-6"	2'-7"	0°	1"	---	---	---	---	---	---	---	---	4	14'-0"	4	14'-10"			
F	---	---	---	---	---	---	---	4	4'-0"	2'-7 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	15'-6"	4	16'-5"			
G	---	---	---	---	---	---	---	4	4'-0"	2'-7 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	17'-0"	4	18'-0"			
H	---	---	---	---	---	---	---	4	4'-6"	2'-7 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	18'-6"	4	19'-7"			
I	---	---	---	---	---	---	---	4	4'-6"	2'-7 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	19'-6"	4	20'-8"			
J	---	---	---	---	---	---	---	4	5'-0"	2'-8"	0°	1/2"	---	---	---	---	---	---	---	---	4	21'-0"	4	22'-3"			
K	---	---	---	---	---	---	---	4	5'-0"	2'-8 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	22'-6"	4	23'-10"			
L	---	---	---	---	---	---	---	4	5'-6"	2'-6 1/2"	0°	1/2"	---	---	---	---	---	---	---	---	4	24'-0"	4	25'-5"			
M	4	6'-0"	5'-4 1/2"	0°	1/2"	7'-0"	6'-4 1/2"	0°	1/2"	6'-0"	2'-8"	0°	2"	---	---	---	---	---	---	---	4	25'-6"	4	27'-0"			
N	4	6'-0"	5'-5 1/2"	0°	1/2"	7'-0"	6'-5 1/2"	0°	1/2"	4	6'-0"	2'-6 1/2"	0°	1/2"	---	---	---	---	---	---	4	27'-0"	4	28'-7"			
O	4	6'-0"	5'-5 1/2"	0°	1/2"	7'-0"	6'-5 1/2"	0°	1/2"	4	6'-0"	2'-7 1/2"	0°	1/2"	---	---	---	---	---	---	4	28'-0"	4	29'-8"			
P	4	5'-10"	4'-10 1/2"	0°	1/2"	6'-10"	5'-10 1/2"	0°	1/2"	4	6'-6"	2'-8"	0°	2"	4	6'-6"	5'-11"	0°	1/2"	7'-6"	6'-11"	0°	1/2"	4	29'-6"	4	31'-3"
Q	4	6'-3"	5'-5 1/2"	0°	1/2"	7'-3"	6'-3 1/2"	0°	1/2"	4	7'-0"	2'-9"	0°	2"	4	6'-6"	6'-4 1/2"	0°	1/2"	8'-0"	7'-4 1/2"	0°	1/2"	4	31'-0"	4	32'-10"
R	4	6'-2"	5'-5 1/2"	0°	1/2"	7'-2"	6'-2 1/2"	0°	1/2"	4	7'-0"	2'-8 1/2"	0°	2"	4	7'-0"	6'-3 1/2"	0°	1/2"	8'-0"	7'-5 1/2"	0°	1/2"	4	32'-0"	4	34'-5"
S	4	6'-5"	5'-4 1/2"	0°	1/2"	7'-5"	6'-4 1/2"	0°	1/2"	4	7'-6"	2'-5 1/2"	0°	2"	4	7'-6"	6'-5 1/2"	0°	1/2"	8'-6"	7'-6 1/2"	0°	1/2"	4	34'-6"	4	36'-0"
T	5	6'-9 1/2"	5'-3 1/2"	0°	1/2"	7'-7"	6'-3 1/2"	0°	1/2"	4	7'-6"	2'-6 1/2"	0°	2"-5"	5	7'-9 1/2"	6'-7 1/2"	0°	1/2"	8'-7"	7'-9 1/2"	0°	1/2"	4	35'-6"	4	37'-7"
U	5	6'-11 1/2"	5'-5 1/2"	0°	1/2"	8'-1"	6'-5 1/2"	0°	1/2"	4	8'-0"	2'-6 1/2"	0°	2"-5"	5	7'-10 1/2"	7'-9 1/2"	0°	1/2"	9'-1"	8'-2 1/2"	0°	1/2"	4	36'-6"	4	38'-9"
V	5	6'-11 1/2"	5'-7"	0°	1/2"	8'-1"	6'-6 1/2"	0°	1/2"	4	8'-0"	2'-6 1/2"	0°	2"-5"	5	7'-10 1/2"	6'-11 1/2"	0°	1/2"	9'-1"	8'-3 1/2"	0°	1/2"	4	38'-0"	4	40'-4"
W	5	7'-4 1/2"	5'-9 1/2"	0°	1/2"	8'-6"	6'-6 1/2"	0°	1/2"	4	8'-6"	2'-6 1/2"	0°	2"-5"	5	8'-6"	7'-5 1/2"	0°	1/2"	9'-7"	8'-7 1/2"	0°	1/2"	4	39'-6"	4	41'-11"
X	5	7'-10 1/2"	5'-10 1/2"	0°	1/2"	9'-0"	7'-9 1/2"	0°	1/2"	4	8'-11 1/2"	2'-7"	0°	2"-5"	5	8'-10 1/2"	7'-11 1/2"	0°	1/2"	10'-1"	9'-9 1/2"	0°	1/2"	4	41'-0"	4	43'-6"
Y	5	7'-11 1/2"	5'-9 1/2"	0°	1/2"	9'-1"	6'-8 1/2"	0°	1/2"	4	9'-5"	2'-6 1/2"	0°	2"-5"	5	9'-9 1/2"	8'-6"	0°	1"	10'-7"	9'-2"	0°	1"	4	42'-6"	4	45'-0"
Z	5	8'-9 1/2"	5'-9 1/2"	0°	1/2"	9'-2"	6'-9 1/2"	0°	1/2"	4	9'-5"	2'-5 1/2"	0°	2"-5"	5	9'-9 1/2"	8'-2 1/2"	0°	1/2"	10'-7"	9'-4 1/2"	0°	1/2"	4	44'-0"	4	46'-7"
AA	6	8'-9 1/2"	5'-10"	0°	1/2"	9'-10"	7'-9 1/2"	0°	1/2"	4	9'-11 1/2"	2'-5"	0°	2"-5"	6	9'-10 1/2"	8'-6 1/2"	0°	1"	11'-4"	9'-11"	0°	1"	4	45'-0"	4	47'-5"
BB	6	8'-10 1/2"	6'-0"	0°	1/2"	10'-3"	7'-9 1/2"	0°	1/2"	4	10'-5"	2'-6 1/2"	0°	2"-5"	6	10'-9 1/2"	9'-9 1/2"	0°	1"	11'-10"	10'-5"	0°	1"	4	46'-6"	4	49'-4"
CC	6	9'-6 1/2"	6'-3 1/2"	0°	1/2"	11'-1"	7'-9 1/2"	0°	1/2"	4	11'-5"	2'-6 1/2"	0°	2"-6"	6	11'-9 1/2"	9'-10 1/2"	0°	1/2"	12'-10"	11'-2 1/2"	0°	1/2"	4	48'-0"	4	50'-11"
DD	6	10'-2 1/2"	6'-3 1/2"	0°	1/2"	11'-7"	7'-9 1/2"	0°	1/2"	4	12'-5"	2'-8"	0°	2"-6"	7	12'-5 1/2"	10'-9 1/2"	0°	1/2"	14'-1"	11'-10 1/2"	0°	1/2"	4	49'-6"	4	52'-6"
EE	7	10'-8"	6'-0"	0°	1/2"	11'-10"	7'-9 1/2"	0°	1/2"	4	12'-5"	2'-10"	0°	2"-7"	7	12'-5 1/2"	10'-10 1/2"	0°	1/2"	14'-1"	12'-1 1/2"	0°	1/2"	4	51'-0"	4	54'-1"

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WING DETAILS
2:1 FILL SLOPE - TYPE II
VIRGINIA DEPARTMENT OF TRANSPORTATION

1006.26

**STRUCTURE
AND
BRIDGE
DIVISION**

BCW-22

WING	SIZE	WV2					SIZE	WV1					SIZE	WV2				
		LENGTH				E		LENGTH				E		LENGTH				E
		From	To	Var	By			From	To	Var	By			From	To	Var	By	
A	6'-6"	2'-10 1/2"	3'-7 1/2"	2	4	5'-1 1/2"	2'-3 1/4"	0'-0 1/4"	7'-0"	4'-3"	0'-0 1/4"	4	5'-0"	2'-9"	0'-0 1/4"			
B	6'-7"	2'-10 1/2"	3'-8 1/2"	2	4	5'-0 1/4"	2'-1"	0'-0 1/4"	7'-6"	4'-3"	0'-0 1/4"	4	5'-6"	2'-1"	0'-0 1/4"			
C	9'-10"	2'-9 1/2"	3'-6 1/2"	2	4	6'-1 1/2"	2'-1 1/2"	0'-0 1/4"	8'-0"	4'-1 1/2"	0'-0 1/4"	4	6'-0"	2'-9"	0'-0 1/4"			
D	9'-10"	2'-9 1/2"	3'-6 1/2"	2	4	6'-0 1/4"	2'-3 1/4"	0'-0 1/4"	8'-6"	4'-3"	0'-0 1/4"	4	6'-6"	2'-1 1/2"	0'-0 1/4"			
E	13'-6"	2'-9 1/2"	3'-9 1/2"	2	4	7'-1 1/2"	2'-3 1/4"	0'-0 1/4"	9'-0"	4'-1 1/2"	0'-0 1/4"	4	7'-0"	2'-2 1/2"	0'-0 1/4"			
F	13'-7"	2'-10"	3'-7"	2	4	7'-0 1/4"	2'-2 1/4"	0'-0 1/4"	9'-6"	4'-2 1/4"	0'-0 1/4"	4	7'-6"	2'-3"	0'-0 1/4"			
G	13'-7"	2'-10"	3'-7"	2	4	8'-1 1/2"	2'-0"	0'-0 1/4"	10'-0"	3'-11 1/2"	0'-0 1/4"	4	8'-0"	2'-3 1/2"	0'-0 1/4"			
H	17'-3"	2'-10"	3'-7 1/2"	2	4	8'-0 1/4"	2'-6"	0'-0 1/4"	10'-6"	4'-3 1/2"	0'-0 1/4"	4	8'-6"	2'-4 1/2"	0'-0 1/4"			
I	16'-11"	2'-9 1/2"	3'-6 1/2"	2	4	9'-1 1/2"	2'-3 1/4"	0'-0 1/4"	11'-0"	4'-3 1/4"	0'-0 1/4"	4	9'-0"	2'-3 3/4"	0'-0 1/4"			
J	20'-6"	2'-9 1/2"	3'-6 1/2"	2	4	9'-0 1/4"	2'-1"	0'-0 1/4"	11'-6"	4'-3"	0'-0 1/4"	4	9'-6"	2'-6"	0'-0 1/4"			
K	20'-7"	2'-9 1/2"	3'-6 1/2"	2	4	10'-1 1/2"	2'-2 1/4"	0'-0 1/4"	12'-0"	4'-2 1/4"	0'-0 1/4"	4	10'-0"	2'-1 1/2"	0'-0 1/4"			
L	20'-8"	2'-9 1/2"	3'-6 1/2"	2	4	8'-1 1/2"	2'-0"	0'-0 1/4"	10'-0"	3'-11 1/2"	0'-0 1/4"	4	10'-6"	2'-2 1/4"	0'-0 1/4"			
M	24'-3"	2'-9 1/2"	3'-6 1/2"	2	4	8'-1 1/2"	2'-0"	0'-0 1/4"	10'-0"	3'-11 1/2"	0'-0 1/4"	4	11'-0"	2'-3"	0'-0 1/4"			
N	24'-4"	2'-10"	3'-7"	2	4	6'-3 1/2"	2'-1 1/2"	0'-0 1/4"	8'-3"	4'-0"	0'-0 1/4"	4	11'-6"	2'-3 1/2"	0'-0 1/4"			
O	27'-6"	2'-9 1/2"	3'-6 1/2"	2	4	6'-0 1/4"	2'-1"	0'-0 1/4"	8'-0"	4'-0"	0'-0 1/4"	4	12'-0"	2'-1 1/2"	0'-0 1/4"			
P	27'-7"	2'-9 1/2"	3'-6 1/2"	2	4	7'-0 1/4"	2'-1 1/2"	0'-0 1/4"	9'-6"	4'-1 1/2"	0'-0 1/4"	4	12'-6"	2'-3 1/4"	0'-0 1/4"			
Q	27'-8"	2'-9 1/2"	3'-6 1/2"	2	4	7'-0 1/4"	2'-1 1/2"	0'-0 1/4"	9'-6"	4'-1 1/2"	0'-0 1/4"	4	13'-0"	2'-6"	0'-0 1/4"			
R	31'-3"	2'-10"	3'-6 1/2"	2	4	7'-0 1/4"	2'-1 1/2"	0'-0 1/4"	9'-6"	4'-1 1/2"	0'-0 1/4"	4	13'-6"	2'-1 1/2"	0'-0 1/4"			
S	31'-4"	2'-10"	3'-6 1/2"	2	4	7'-0 1/4"	2'-1 1/2"	0'-0 1/4"	9'-6"	4'-1 1/2"	0'-0 1/4"	4	14'-0"	2'-2 1/4"	0'-0 1/4"			
T	35'-0"	2'-10 1/2"	3'-6 1/2"	2	4	6'-11 1/2"	2'-0 1/4"	0'-0 1/4"	8'-11"	4'-0 1/4"	0'-0 1/4"	4	14'-6"	2'-3"	0'-0 1/4"			
U	34'-7"	2'-9 1/2"	3'-6 1/2"	2	4	7'-1 1/2"	2'-1 1/2"	0'-0 1/4"	9'-0"	4'-1 1/2"	0'-0 1/4"	4	15'-0"	2'-3 1/2"	0'-0 1/4"			
V	34'-8"	2'-9 1/2"	3'-6 1/2"	2	4	7'-0 1/4"	2'-1 1/2"	0'-0 1/4"	9'-6"	4'-1 1/2"	0'-0 1/4"	4	15'-6"	2'-4 1/2"	0'-0 1/4"			
W	38'-3"	2'-10"	3'-6 1/2"	2	4	7'-1 1/2"	2'-1 1/2"	0'-0 1/4"	9'-7"	4'-3 1/4"	0'-0 1/4"	4	16'-3"	2'-0 1/4"	0'-0 1/4"			
X	38'-4"	2'-9 1/2"	3'-6 1/2"	2	4	8'-0 1/4"	2'-6"	0'-0 1/4"	10'-6"	4'-5 1/2"	0'-0 1/4"	4	17'-0"	3'-0"	0'-0 1/4"			
Y	42'-0"	2'-9 1/2"	3'-6 1/2"	2	4	9'-1 1/2"	2'-0 1/4"	0'-0 1/4"	11'-7"	4'-6"	0'-0 1/4"	4	17'-6"	2'-1 1/2"	0'-0 1/4"			
Z	42'-1"	2'-9 1/2"	3'-6 1/2"	2	4	9'-0 1/4"	2'-0 1/4"	0'-0 1/4"	11'-7"	4'-6"	0'-0 1/4"	4	18'-0"	2'-0 1/4"	0'-0 1/4"			
AA	41'-8"	2'-9 1/2"	3'-6 1/2"	2	4	10'-1 1/2"	2'-7"	0'-0 1/4"	12'-0"	4'-6 1/2"	0'-0 1/4"	4	18'-6"	2'-9"	0'-0 1/4"			
BB	45'-3"	2'-9"	3'-6 1/2"	2	4	10'-1 1/2"	2'-7"	0'-0 1/4"	12'-0"	4'-6 1/2"	0'-0 1/4"	4	19'-0"	2'-9 1/2"	0'-0 1/4"			
CC	45'-4"	2'-10"	3'-6 1/2"	2	4	9'-3 1/2"	2'-6 1/2"	0'-0 1/4"	11'-3"	4'-6 1/2"	0'-0 1/4"	4	19'-6"	2'-10 1/2"	0'-0 1/4"			
DD	48'-0"	2'-9 1/2"	3'-6 1/2"	2	4	8'-11 1/2"	2'-0 1/4"	0'-0 1/4"	10'-11"	4'-6 1/2"	0'-0 1/4"	4	20'-0"	2'-11 1/2"	0'-0 1/4"			
EE	48'-1"	2'-9 1/2"	3'-6 1/2"	2	4	8'-10 1/2"	2'-5 1/2"	0'-0 1/4"	10'-10"	4'-6 1/2"	0'-0 1/4"	4	20'-6"	3'-0"	0'-0 1/4"			

Sheet 6 of 7

WING DETAILS
2:1 FILL SLOPE - TYPE II
VIRGINIA DEPARTMENT OF TRANSPORTATION

1006.27

STRUCTURE
AND
BRIDGE
DIVISION

BCW-22

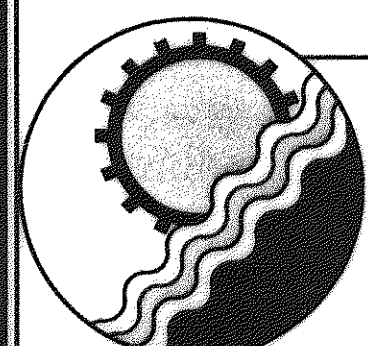
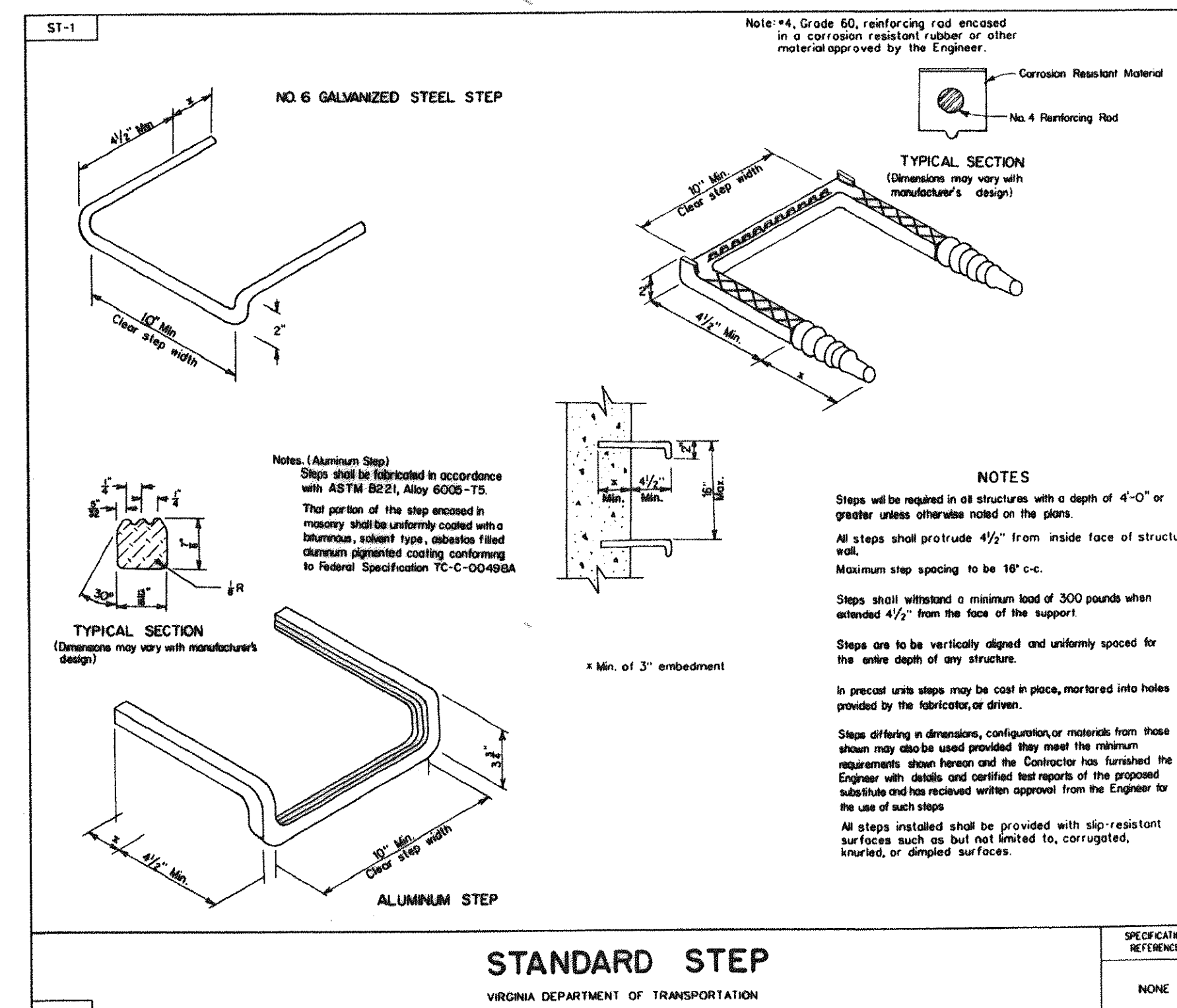
WING	SIZE	WV3						SIZE	WV4					
		a			LENGTH				a			LENGTH		
		From	To	Vary By	From	To	Vary By		From	To	Vary By	From	To	Vary By
A	--	---	---	---	---	---	---	--	---	---	---	---	---	---
B	--	---	---	---	---	---	---	--	---	---	---	---	---	---
C	--	---	---	---	---	---	---	--	---	---	---	---	---	---
D	--	---	---	---	---	---	---	--	---	---	---	---	---	---
E	--	---	---	---	---	---	---	--	---	---	---	---	---	---
F	--	---	---	---	---	---	---	--	---	---	---	---	---	---
G	--	---	---	---	---	---	---	--	---	---	---	---	---	---
H	--	---	---	---	---	---	---	--	---	---	---	---	---	---
I	--	---	---	---	---	---	---	--	---	---	---	---	---	---
J	--	---	---	---	---	---	---	--	---	---	---	---	---	---
K	--	---	---	---	---	---	---	--	---	---	---	---	---	---
L	4	10'-00"	8'-00"	0'-30"	12'-0"	10'-0"	0'-30"	4	11'-00"	10'-00"	0'-30"	13'-0"	12'-00"	0'-30"
M	4	11'-00"	8'-00"	0'-30"	13'-0"	10'-00"	0'-30"	4	12'-00"	10'-00"	0'-30"	14'-0"	12'-00"	0'-30"
N	4	10'-00"	8'-00"	0'-30"	12'-0"	0'-30"	0'-30"	4	11'-00"	10'-00"	0'-30"	13'-0"	12'-00"	0'-30"
O	4	10'-00"	7'-0"	0'-30"	12'-0"	8'-100"	0'-30"	4	12'-00"	11'-00"	0'-30"	14'-0"	13'-00"	0'-30"
P	4	11'-00"	7'-0"	0'-30"	13'-0"	9'-00"	0'-30"	4	12'-00"	11'-00"	0'-30"	14'-0"	13'-00"	0'-30"
Q	4	11'-00"	7'-00"	0'-30"	13'-1"	9'-00"	0'-30"	4	13'-00"	11'-00"	0'-30"	15'-0"	13'-00"	0'-30"
R	4	11'-00"	7'-00"	0'-30"	13'-1"	9'-00"	0'-30"	5	13'-00"	11'-00"	0'-30"	15'-0"	13'-00"	0'-30"
S	4	11'-00"	7'-00"	0'-30"	13'-1"	9'-00"	0'-30"	5	13'-00"	12'-00"	0'-30"	15'-0"	13'-00"	0'-30"
T	4	11'-00"	7'-00"	0'-30"	13'-0"	9'-00"	0'-30"	5	14'-00"	11'-00"	0'-30"	16'-0"	13'-00"	0'-30"
U	5	11'-00"	7'-00"	0'-30"	13'-11"	9'-00"	0'-30"	5	14'-00"	12'-00"	0'-30"	16'-0"	14'-0"	0'-30"
V	5	12'-00"	7'-00"	0'-30"	14'-0"	9'-00"	0'-30"	6	15'-00"	12'-00"	0'-30"	17'-0"	14'-00"	0'-30"
W	5	12'-00"	8'-00"	0'-30"	15'-0"	10'-00"	0'-30"	6	16'-00"	13'-00"	0'-30"	18'-0"	15'-00"	0'-30"
X	6	13'-00"	8'-00"	0'-30"	15'-0"	11'-00"	0'-30"	6	16'-00"	13'-00"	0'-30"	19'-1"	15'-00"	0'-30"
Y	6	13'-00"	9'-00"	0'-30"	16'-0"	12'-00"	0'-30"	6	17'-00"	14'-00"	0'-30"	19'-7"	16'-00"	0'-30"
Z	6	14'-00"	9'-00"	0'-30"	16'-0"	12'-00"	0'-30"	6	17'-00"	14'-00"	0'-30"	20'-11"	16'-00"	0'-30"
AA	6	14'-00"	10'-00"	0'-30"	17'-0"	12'-00"	0'-30"	7	18'-00"	15'-00"	0'-30"	20'-8"	17'-00"	0'-30"
BB	6	15'-00"	10'-00"	0'-30"	17'-0"	12'-00"	0'-30"	7	18'-00"	15'-00"	0'-30"	21'-2"	17'-00"	0'-30"
CC	6	15'-00"	9'-0"	0'-30"	17'-3"	11'-00"	0'-30"	7	19'-00"	15'-00"	0'-30"	21'-8"	17'-00"	0'-30"
DD	6	15'-00"	9'-00"	0'-30"	17'-0"	11'-00"	0'-30"	7	19'-00"	15'-00"	0'-30"	22'-2"	17'-00"	0'-30"
EE	7	15'-00"	9'-00"	0'-30"	18'-0"	11'-00"	0'-30"	8	20'-00"	16'-00"	0'-30"	22'-9"	18'-00"	0'-30"

Sheet 7 of 7

WING DETAILS
2:1 FILL SLOPE - TYPE II
DEPARTMENT OF TRANSPORTATION

1006.28

STRUCTURE
AND
BRIDGE
DIVISION



ENGINEERING CONCEPTS, INC.

20 S. ROANOKE ST., PO BOX 619
FINCASTLE, VIRGINIA 24090
540.473.1253 FAX: 540.473.1254

AS-BUILT

Drawn	HTB
Designed	VDOT
Checked	WPJ
Approved	JST

**GREENFIELD PARKWAY
PHASE 1**

**VDOT STANDARD DETAILS
BOX CULVERT WING DETAILS**

NOT TO SCALE
NOVEMBER 12, 1997
PROJECT: 97042
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