

REACOUT

♀  
 RUFFIN (37.4)  
 12-Jan-2012  
 DARREN

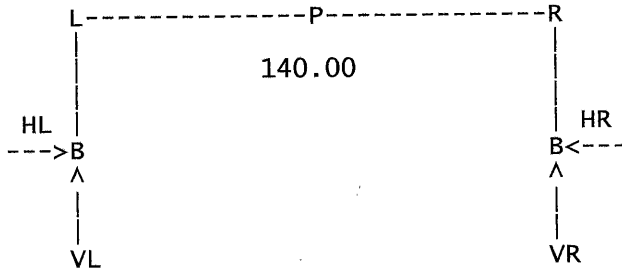
DWES91  
 08:51:05  
 Release 36.4

VALCOM INC

DESIGN FRAME #1  
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 20.500 FT. LEFT RS: 1.170/12  
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	4.87	5.21	4.87	5.21
COL	4.50	3.50	4.50	3.50
LL	10.80	8.39	10.87	8.41
SL	3.12	2.44	3.17	2.46
WLL	-32.22	-25.28	-23.85	-19.76
WLR	-23.85	-19.76	-32.22	-25.28
UBL	3.78	1.90	3.82	3.00
UBR	3.78	2.99	3.82	1.91
WLL1	-24.74	-20.44	-24.74	-20.44
WLR1	-9.40	-8.16	-9.40	-8.16
WEW	-17.90	-15.69	-17.90	-15.69
SEIL	-0.49	-0.15	0.48	0.15
SEIR	0.48	0.15	-0.49	-0.15
WLL2	-25.25	-18.79	-16.88	-13.27
WLR2	-16.88	-13.27	-25.25	-18.79
WLL3	-31.65	-26.93	-31.65	-26.93
WLR3	-16.46	-14.65	-16.46	-14.65
COMB # 1	20.18	17.10	20.24	17.12
COMB # 2	13.15	10.61	13.19	11.72
COMB # 5	-29.29	-22.16	-20.93	-16.63
COMB # 7	-20.92	-16.63	-29.29	-22.16
COMB # 37	-14.98	-12.56	-14.98	-12.56
COMB # 60	-28.73	-23.80	-28.73	-23.80

DESIGN FRAME #1  
 PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(DL+ UBL+ COL)

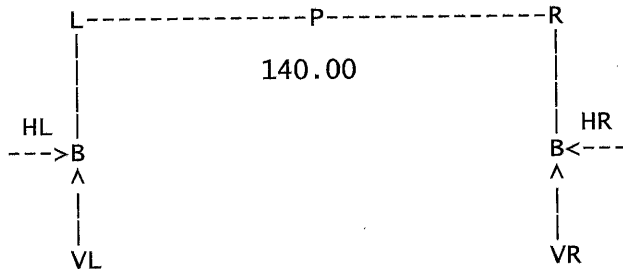
REACOUT

COMB # 5--> 1.00 X(0.60DL+ WLL)  
 COMB # 7--> 1.00 X(0.60DL+ WLR)  
 COMB # 37--> 1.00 X(0.60DL+ WEW)  
 COMB # 60--> 1.00 X(0.60DL+ WLL3)  
 UBL-->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF  
 UBR-->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

DESIGN FRAME #2  
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2 3 4 5 6

LEFT EH= 20.500 FT. LEFT RS: 1.170/12  
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	8.34	8.18	8.34	8.19
COL	10.76	8.58	10.76	8.57
LL	25.91	20.56	26.06	20.60
SL	7.48	5.99	7.57	6.02
WLL	-46.29	-36.91	-34.77	-30.69
WLR	-34.77	-30.69	-46.29	-36.91
UBL	9.06	4.68	9.14	7.40
UBR	9.07	7.38	9.15	4.70
WLL1	-25.82	-22.53	-25.82	-22.54
WLR1	-8.45	-8.39	-8.45	-8.40
WEW	-42.45	-38.44	-42.45	-38.44
SEIL	-1.04	-0.31	1.04	0.31
SEIR	1.03	0.31	-1.04	-0.31
WLL2	-29.57	-21.00	-18.05	-14.79
WLR2	-18.05	-14.78	-29.57	-21.00
WLL3	-42.45	-38.44	-42.45	-38.44
WLR3	-25.33	-24.30	-25.33	-24.30
COMB # 1	45.02	37.32	45.16	37.36
COMB # 2	28.17	21.43	28.25	24.17
COMB # 3	28.17	24.14	28.25	21.46
COMB # 5	-41.28	-32.00	-29.77	-25.78
COMB # 7	-29.77	-25.78	-41.29	-32.00
COMB # 37	-37.44	-33.53	-37.44	-33.53

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(DL+ UBL+ COL)  
 COMB # 3--> 1.00 X(DL+ UBR+ COL)

REACOUT  
 DESIGN FRAME #2  
 PRELIMINARY FRAME COLUMN REACTIONS

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LOAD COMBINATIONS: (CONT'D)

- COMB # 5--> 1.00 X(0.60DL+ WLL)
- COMB # 7--> 1.00 X(0.60DL+ WLR)
- COMB # 37--> 1.00 X(0.60DL+ WEW)
- UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
- UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

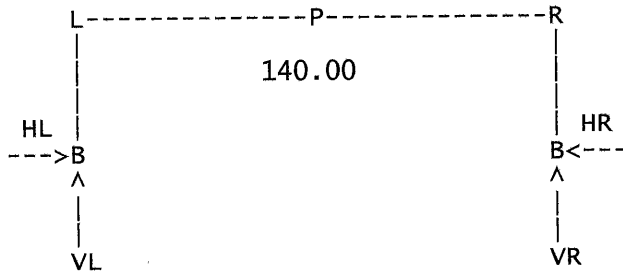
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DESIGN FRAME #3  
 PRELIMINARY FRAME COLUMN REACTIONS

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FRAME LINES: 7

LEFT EH= 20.500 FT. LEFT RS: 1.170/12  
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	5.23	5.19	5.23	5.19
COL	5.13	4.02	5.13	4.02
LL	12.34	9.65	12.41	9.67
SL	3.57	2.81	3.61	2.82
WLL	-34.86	-27.55	-25.79	-21.63
WLR	-25.79	-21.63	-34.86	-27.55
UBL	4.32	2.18	4.36	3.46
UBR	4.32	3.45	4.36	2.20
WLL1	-26.15	-21.82	-26.15	-21.82
WLR1	-9.85	-8.67	-9.85	-8.67
WEW	-20.40	-18.04	-20.40	-18.04
SEIL	-0.53	-0.16	0.53	0.16
SEIR	0.53	0.16	-0.53	-0.16
WLL2	-26.92	-20.08	-17.85	-14.17
WLR2	-17.85	-14.17	-26.92	-20.08
WLL3	-34.02	-29.28	-34.02	-29.28
WLR3	-17.90	-16.14	-17.90	-16.14
COMB # 1	22.70	18.87	22.77	18.89
COMB # 2	14.68	11.40	14.72	12.68
COMB # 5	-31.73	-24.43	-22.65	-18.52
COMB # 7	-22.65	-18.52	-31.73	-24.43
COMB # 37	-17.27	-14.93	-17.27	-14.93
COMB # 60	-30.89	-26.17	-30.89	-26.17

LOAD COMBINATIONS:

REACOUT

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(DL+ UBL+ COL)  
 COMB # 5--> 1.00 X(0.60DL+ WLL)

DESIGN FRAME #3  
 PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS: (CONT'D)

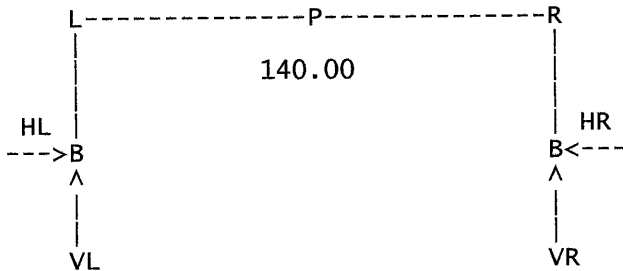
COMB # 7--> 1.00 X(0.60DL+ WLR)  
 COMB # 37--> 1.00 X(0.60DL+ WEW)  
 COMB # 60--> 1.00 X(0.60DL+ WLL3)  
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF  
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

RUFFIN (37.4) DWES91 VALCOM INC  
 12-Jan-2012 08:51:05  
 DARREN Release 36.4

DESIGN FRAME #1  
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 20.500 FT. LEFT RS: 1.170/12  
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	4.87	5.21	4.87	5.21
COL	4.50	3.50	4.50	3.50
LL	10.80	8.39	10.87	8.41
SL	3.12	2.44	3.17	2.46
WLL	-32.22	-25.28	-23.85	-19.76
WLR	-23.85	-19.76	-32.22	-25.28
UBL	3.78	1.90	3.82	3.00
UBR	3.78	2.99	3.82	1.91
WLL1	-24.74	-20.44	-24.74	-20.44
WLR1	-9.40	-8.16	-9.40	-8.16
WEW	-17.90	-15.69	-17.90	-15.69
SEIL	-0.49	-0.15	0.48	0.15
SEIR	0.48	0.15	-0.49	-0.15
WLL2	-25.25	-18.79	-16.88	-13.27
WLR2	-16.88	-13.27	-25.25	-18.79
WLL3	-31.65	-26.93	-31.65	-26.93

		REACOUT			
WLR3		-16.46	-14.65	-16.46	-14.65
COMB # 1		20.18	17.10	20.24	17.12
COMB # 2		13.15	10.61	13.19	11.72
COMB # 5		-29.29	-22.16	-20.93	-16.63
COMB # 7		-20.92	-16.63	-29.29	-22.16
COMB # 37		-14.98	-12.56	-14.98	-12.56
COMB # 60		-28.73	-23.80	-28.73	-23.80

DESIGN FRAME #1  
PRELIMINARY FRAME COLUMN REACTIONS

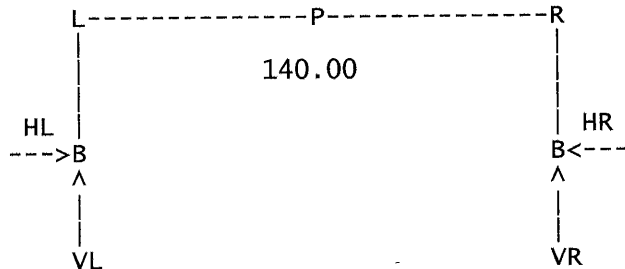
LOAD COMBINATIONS:

- COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(DL+ UBL+ COL)  
 COMB # 5--> 1.00 X(0.60DL+ WLL)  
 COMB # 7--> 1.00 X(0.60DL+ WLR)  
 COMB # 37--> 1.00 X(0.60DL+ WEW)  
 COMB # 60--> 1.00 X(0.60DL+ WLL3)  
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF  
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

DESIGN FRAME #2  
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2 3 4 5 6

LEFT EH= 20.500 FT. LEFT RS: 1.170/12  
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	8.34	8.18	8.34	8.19
COL	10.76	8.58	10.76	8.57
LL	25.91	20.56	26.06	20.60
SL	7.48	5.99	7.57	6.02
WLL	-46.29	-36.91	-34.77	-30.69
WLR	-34.77	-30.69	-46.29	-36.91
UBL	9.06	4.68	9.14	7.40
UBR	9.07	7.38	9.15	4.70
WLL1	-25.82	-22.53	-25.82	-22.54
WLR1	-8.45	-8.39	-8.45	-8.40
WEW	-42.45	-38.44	-42.45	-38.44
SEIL	-1.04	-0.31	1.04	0.31
SEIR	1.03	0.31	-1.04	-0.31
WLL2	-29.57	-21.00	-18.05	-14.79

		REACOUT			
WLR2		-18.05	-14.78	-29.57	-21.00
WLL3		-42.45	-38.44	-42.45	-38.44
WLR3		-25.33	-24.30	-25.33	-24.30
COMB #	1	45.02	37.32	45.16	37.36
COMB #	2	28.17	21.43	28.25	24.17
COMB #	3	28.17	24.14	28.25	21.46
COMB #	5	-41.28	-32.00	-29.77	-25.78
COMB #	7	-29.77	-25.78	-41.29	-32.00
COMB #	37	-37.44	-33.53	-37.44	-33.53

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(DL+ UBL+ COL)  
 COMB # 3--> 1.00 X(DL+ UBR+ COL)

DESIGN FRAME #2  
 PRELIMINARY FRAME COLUMN REACTIONS

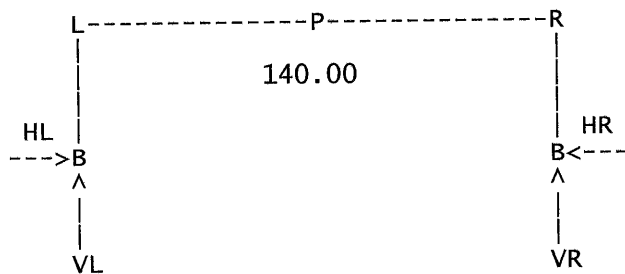
LOAD COMBINATIONS: (CONT'D)

COMB # 5--> 1.00 X(0.60DL+ WLL)  
 COMB # 7--> 1.00 X(0.60DL+ WLR)  
 COMB # 37--> 1.00 X(0.60DL+ WEW)  
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF  
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

DESIGN FRAME #3  
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 7

LEFT EH= 20.500 FT. LEFT RS: 1.170/12  
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	5.23	5.19	5.23	5.19
COL	5.13	4.02	5.13	4.02
LL	12.34	9.65	12.41	9.67
SL	3.57	2.81	3.61	2.82
WLL	-34.86	-27.55	-25.79	-21.63
WLR	-25.79	-21.63	-34.86	-27.55
UBL	4.32	2.18	4.36	3.46
UBR	4.32	3.45	4.36	2.20
WLL1	-26.15	-21.82	-26.15	-21.82

REACOUT				
WLR1	-9.85	-8.67	-9.85	-8.67
WEW	-20.40	-18.04	-20.40	-18.04
SEIL	-0.53	-0.16	0.53	0.16
SEIR	0.53	0.16	-0.53	-0.16
WLL2	-26.92	-20.08	-17.85	-14.17
WLR2	-17.85	-14.17	-26.92	-20.08
WLL3	-34.02	-29.28	-34.02	-29.28
WLR3	-17.90	-16.14	-17.90	-16.14
COMB # 1	22.70	18.87	22.77	18.89
COMB # 2	14.68	11.40	14.72	12.68
COMB # 5	-31.73	-24.43	-22.65	-18.52
COMB # 7	-22.65	-18.52	-31.73	-24.43
COMB # 37	-17.27	-14.93	-17.27	-14.93
COMB # 60	-30.89	-26.17	-30.89	-26.17

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(DL+ UBL+ COL)  
 COMB # 5--> 1.00 X(0.60DL+ WLL)

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DESIGN FRAME #3  
 PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS: (CONT'D)

COMB # 7--> 1.00 X(0.60DL+ WLR)  
 COMB # 37--> 1.00 X(0.60DL+ WEW)  
 COMB # 60--> 1.00 X(0.60DL+ WLL3)  
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF  
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

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RUFFIN (37.4)  
 12-Jan-2012  
 DARREN

DWES91  
 08:50:55  
 Release 36.4

VALCOM INC

ENDWALL DESIGN SYSTEM

\*\*\*\*\* ENDWALL C COLUMN DESIGN \*\*\*\*\*

PRELIMINARY COLUMN REACTIONS

COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 15.00		COL @ 40.00		COL @ 60.00		COL @ 80.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.51	0.00	0.57	0.00	0.73	0.00	0.73
COL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WL+	4.50	0.00	5.57	0.00	5.36	0.00	5.36	0.00
WL-	-5.00	0.00	-6.19	0.00	-5.96	0.00	-5.96	0.00
DL + LL + COL	0.00	0.51	0.00	0.57	0.00	0.73	0.00	0.73
DL + SL + COL	0.00	0.51	0.00	0.57	0.00	0.73	0.00	0.73
0.6DL + WL+	4.50	0.31	5.57	0.34	5.36	0.44	5.36	0.44
0.6DL + WL-	-5.00	0.31	-6.19	0.34	-5.96	0.44	-5.96	0.44
DL+0.75(SL+COL+WL+)	3.38	0.51	4.18	0.57	4.02	0.73	4.02	0.73
DL+0.75(SL+COL+WL-)	-3.75	0.51	-4.64	0.57	-4.47	0.73	-4.47	0.73
DL+0.75(LL+COL+WL+)	3.38	0.51	4.18	0.57	4.02	0.73	4.02	0.73

			REACOUT					
DL+0.75(LL+COL+WL-)	-3.75	0.51	-4.64	0.57	-4.47	0.73	-4.47	0.73
DL + UBL + COL	0.00	0.51	0.00	0.57	0.00	0.73	0.00	0.73
DL + UBR + COL	0.00	0.51	0.00	0.57	0.00	0.73	0.00	0.73

APPLIED LOAD CASES AND COMBINATIONS	COL @ 100.00		COL @ 125.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.57	0.00	0.51
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00
WL+	5.57	0.00	4.50	0.00
WL-	-6.19	0.00	-5.00	0.00
DL + LL + COL	0.00	0.57	0.00	0.51
DL + SL + COL	0.00	0.57	0.00	0.51
0.6DL + WL+	5.57	0.34	4.50	0.31
0.6DL + WL-	-6.19	0.34	-5.00	0.31
DL+0.75(SL+COL+WL+)	4.18	0.57	3.38	0.51
DL+0.75(SL+COL+WL-)	-4.64	0.57	-3.75	0.51
DL+0.75(LL+COL+WL+)	4.18	0.57	3.38	0.51
DL+0.75(LL+COL+WL-)	-4.64	0.57	-3.75	0.51
DL + UBL + COL	0.00	0.57	0.00	0.51
DL + UBR + COL	0.00	0.57	0.00	0.51

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RUFFIN (37.4) DWES91  
12-Jan-2012 08:50:56 VALCOM INC  
DARREN Release 36.4

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ENDWALL DESIGN SYSTEM  
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\*\*\*\*\* ENDWALL D COLUMN DESIGN \*\*\*\*\*

PRELIMINARY COLUMN REACTIONS  
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COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 15.00		COL @ 40.00		COL @ 60.00		COL @ 80.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.38	0.00	0.42	0.00	0.46	0.00	0.46
COL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WL+	4.50	0.00	5.57	0.00	5.36	0.00	5.36	0.00
WL-	-5.00	0.00	-6.19	0.00	-5.96	0.00	-5.96	0.00
DL + LL + COL	0.00	0.38	0.00	0.42	0.00	0.46	0.00	0.46
DL + SL + COL	0.00	0.38	0.00	0.42	0.00	0.46	0.00	0.46
0.6DL + WL+	4.50	0.23	5.57	0.25	5.36	0.28	5.36	0.28
0.6DL + WL-	-5.00	0.23	-6.19	0.25	-5.96	0.28	-5.96	0.28
DL+0.75(SL+COL+WL+)	3.38	0.38	4.18	0.42	4.02	0.46	4.02	0.46
DL+0.75(SL+COL+WL-)	-3.75	0.38	-4.64	0.42	-4.47	0.46	-4.47	0.46
DL+0.75(LL+COL+WL+)	3.38	0.38	4.18	0.42	4.02	0.46	4.02	0.46
DL+0.75(LL+COL+WL-)	-3.75	0.38	-4.64	0.42	-4.47	0.46	-4.47	0.46
DL + UBL + COL	0.00	0.38	0.00	0.42	0.00	0.46	0.00	0.46
DL + UBR + COL	0.00	0.38	0.00	0.42	0.00	0.46	0.00	0.46

APPLIED LOAD CASES AND COMBINATIONS	COL @ 100.00		COL @ 125.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)

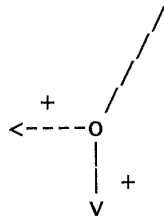
			REACOUT	
DL	0.00	0.42	0.00	0.38
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00
WL+	5.57	0.00	4.50	0.00
WL-	-6.19	0.00	-5.00	0.00
DL + LL + COL	0.00	0.42	0.00	0.38
DL + SL + COL	0.00	0.42	0.00	0.38
0.6DL + WL+	5.57	0.25	4.50	0.23
0.6DL + WL-	-6.19	0.25	-5.00	0.23
DL+0.75(SL+COL+WL+)	4.18	0.42	3.38	0.38
DL+0.75(SL+COL+WL-)	-4.64	0.42	-3.75	0.38
DL+0.75(LL+COL+WL+)	4.18	0.42	3.38	0.38
DL+0.75(LL+COL+WL-)	-4.64	0.42	-3.75	0.38
DL + UBL + COL	0.00	0.42	0.00	0.38
DL + UBR + COL	0.00	0.42	0.00	0.38

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RUFFIN (37.4)  
12-Jan-2012  
DARREN

DWES91  
08:51:17  
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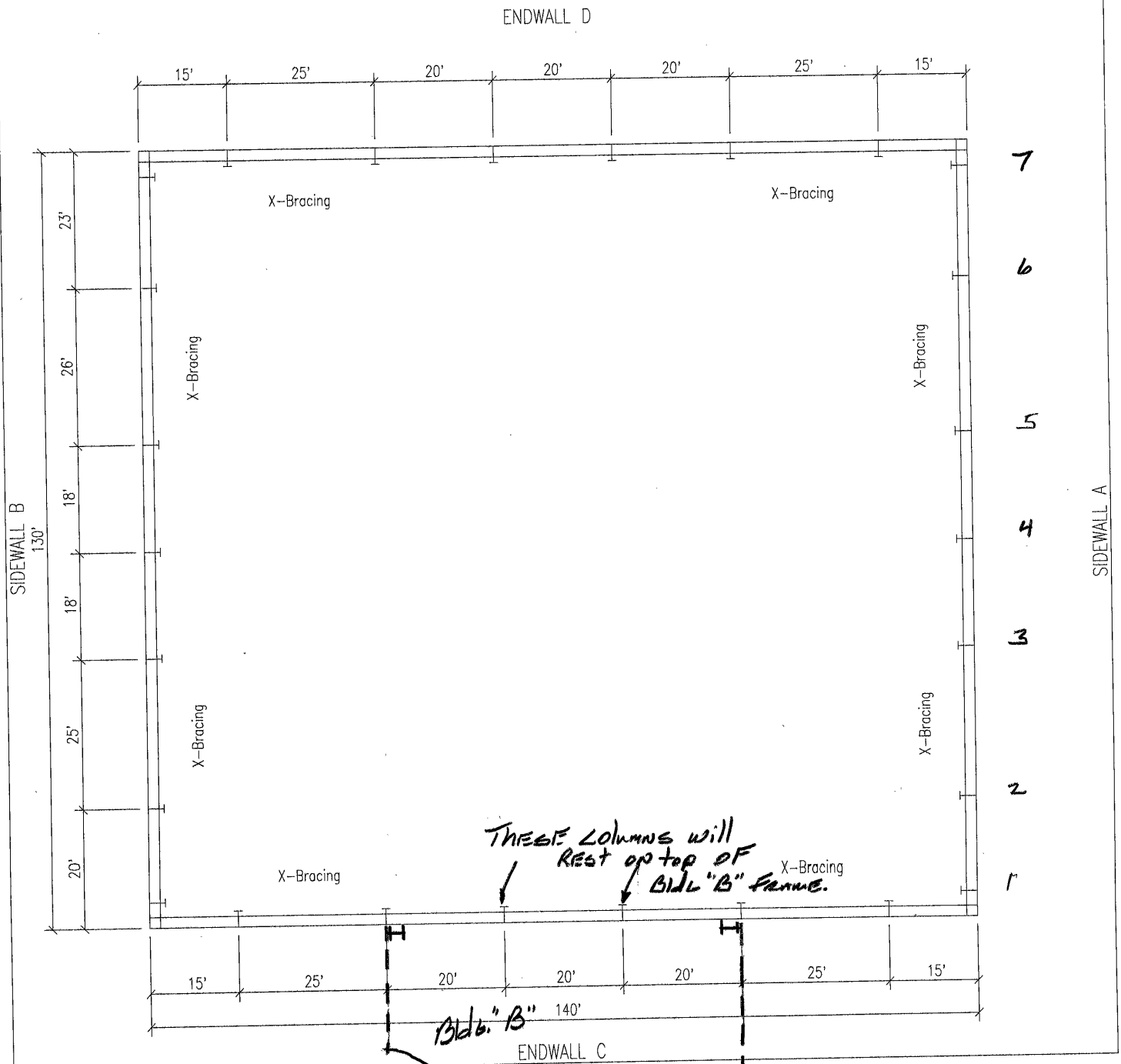
\*\*\*\*\* BRACING DESIGN \*\*\*\*\*  
DIAGONAL X-BRACE DESIGN REACTIONS



WALL	BRACED BAY #	LOAD NAME	DIST FROM EWC (FT)	DIST FROM SWA (FT)	HORIZONTAL (KIPS)	VERTICAL (KIPS)
SWB	2	WLB+	20.00		8.21	6.73
SWB	2	WLB-	45.00		-8.21	6.73
SWB	2	SEI+	20.00		4.90	4.02
SWB	2	SEI-	45.00		-4.90	4.02
SWA	2	WLB+	20.00		8.21	6.73
SWA	2	WLB-	45.00		-8.21	6.73
SWA	2	SEI+	20.00		4.90	4.02
SWA	2	SEI-	45.00		-4.90	4.02
SWB	5	WLB+	81.00		8.21	6.47
SWB	5	WLB-	107.00		-8.21	6.47
SWB	5	SEI+	81.00		4.90	3.86
SWB	5	SEI-	107.00		-4.90	3.86
SWA	5	WLB+	81.00		8.21	6.47
SWA	5	WLB-	107.00		-8.21	6.47
SWA	5	SEI+	81.00		4.90	3.86
SWA	5	SEI-	107.00		-4.90	3.86
EWC	2	WLB-		15.00	2.02	1.98
EWC	2	SEI-		15.00	1.85	1.80
EWC	2	WLB+		40.00	2.02	1.78
EWC	2	SEI+		40.00	1.85	1.62
EWC	6	WLB-		100.00	2.02	1.78
EWC	6	SEI-		100.00	1.85	1.62
EWC	6	WLB+		125.00	2.02	1.98
EWC	6	SEI+		125.00	1.85	1.80
EWD	2	WLB-		15.00	2.02	1.98
EWD	2	SEI-		15.00	1.85	1.81
EWD	2	WLB+		40.00	2.02	1.78

			REACOUT		
EWD	2	SEI+	40.00	1.85	1.63
EWD	6	WLB-	100.00	2.02	1.78
EWD	6	SEI-	100.00	1.85	1.63
EWD	6	WLB+	125.00	2.02	1.98
EWD	6	SEI+	125.00	1.85	1.81

# TOP VIEW



REACOUT

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11-Jan-2012  
ERIC

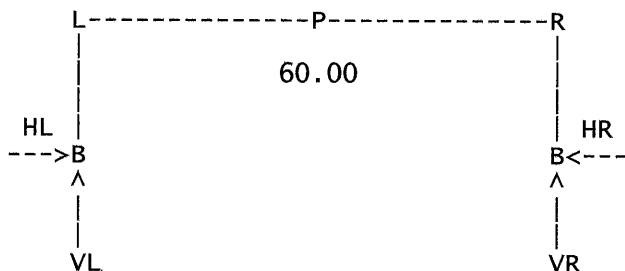
VAL091  
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Release 36.4

VALCOM INC

DESIGN FRAME #1  
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 16.000 FT. LEFT RS: 1.000/12  
RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12  
DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.50	2.63	1.50	2.63
COL	1.59	2.25	1.59	2.25
LL	3.81	5.39	3.85	5.41
WLL	-12.27	-15.77	-5.48	-10.36
WLR	-5.48	-10.36	-12.27	-15.77
WLL1	-7.28	-11.87	-7.28	-11.87
WLR1	-2.22	-4.67	-2.22	-4.67
WEW	-5.90	-11.60	-5.91	-11.60
WLL2	-10.21	-10.97	-3.41	-5.56
WLR2	-3.41	-5.56	-10.21	-10.97
WLL3	-9.33	-16.67	-9.33	-16.67
WLR3	-4.30	-9.47	-4.30	-9.47
COMB # 1	6.90	10.27	6.94	10.29
COMB # 2	-11.37	-14.19	-4.58	-8.78
COMB # 4	-4.58	-8.78	-11.37	-14.19
COMB # 18	-5.00	-10.02	-5.00	-10.02
COMB # 27	-8.42	-15.09	-8.42	-15.09

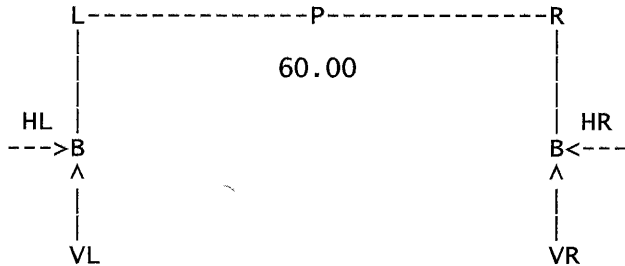
LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
COMB # 2--> 1.00 X(0.60DL+ WLL)  
COMB # 4--> 1.00 X(0.60DL+ WLR)  
COMB # 18--> 1.00 X(0.60DL+ WEW)  
COMB # 27--> 1.00 X(0.60DL+ WLL3)

DESIGN FRAME #2  
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2

REACOUT  
 LEFT EH= 16.000 FT. LEFT RS: 1.000/12  
 RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.38	2.38	1.38	2.38
COL	1.49	2.25	1.49	2.25
LL	3.57	5.39	3.61	5.41
WLL	-8.07	-11.14	-3.52	-7.79
WLR	-3.51	-7.80	-8.07	-11.14
WLL1	-3.53	-6.80	-3.53	-6.80
WLR1	-0.73	-2.53	-0.73	-2.53
WEW	-5.39	-11.60	-5.39	-11.60
WLL2	-6.20	-6.35	-1.65	-2.99
WLR2	-1.64	-2.99	-6.19	-6.34
WLL3	-5.39	-11.60	-5.39	-11.60
WLR3	-2.61	-7.33	-2.61	-7.33
COMB # 1	6.44	10.02	6.48	10.04
COMB # 2	-7.24	-9.71	-2.69	-6.37
COMB # 4	-2.68	-6.37	-7.24	-9.71
COMB # 18	-4.56	-10.17	-4.56	-10.17

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(0.60DL+ WLL)  
 COMB # 4--> 1.00 X(0.60DL+ WLR)  
 COMB # 18--> 1.00 X(0.60DL+ WEW)

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RUFFIN (37.4)  
 11-Jan-2012  
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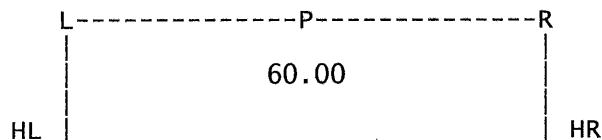
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VALCOM INC

DESIGN FRAME #1  
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 16.000 FT. LEFT RS: 1.000/12  
 RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.





BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.50	2.63	1.50	2.63
COL	1.59	2.25	1.59	2.25
LL	3.81	5.39	3.85	5.41
WLL	-12.27	-15.77	-5.48	-10.36
WLR	-5.48	-10.36	-12.27	-15.77
WLL1	-7.28	-11.87	-7.28	-11.87
WLR1	-2.22	-4.67	-2.22	-4.67
WEW	-5.90	-11.60	-5.91	-11.60
WLL2	-10.21	-10.97	-3.41	-5.56
WLR2	-3.41	-5.56	-10.21	-10.97
WLL3	-9.33	-16.67	-9.33	-16.67
WLR3	-4.30	-9.47	-4.30	-9.47
COMB # 1	6.90	10.27	6.94	10.29
COMB # 2	-11.37	-14.19	-4.58	-8.78
COMB # 4	-4.58	-8.78	-11.37	-14.19
COMB # 18	-5.00	-10.02	-5.00	-10.02
COMB # 27	-8.42	-15.09	-8.42	-15.09

LOAD COMBINATIONS:

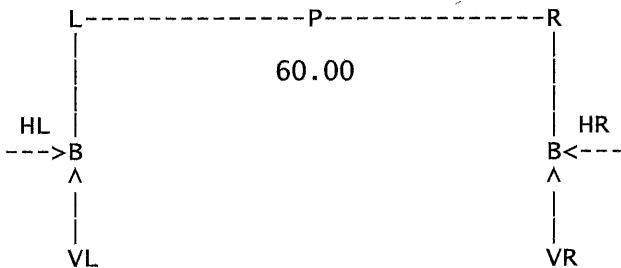
- COMB # 1--> 1.00 X(DL+ LL+ COL)
- COMB # 2--> 1.00 X(0.60DL+ WLL)
- COMB # 4--> 1.00 X(0.60DL+ WLR)
- COMB # 18--> 1.00 X(0.60DL+ WEW)
- COMB # 27--> 1.00 X(0.60DL+ WLL3)

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DESIGN FRAME #2  
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2

LEFT EH= 16.000 FT. LEFT RS: 1.000/12  
 RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12  
 DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR

		REACOUT			
DL		1.38	2.38	1.38	2.38
COL		1.49	2.25	1.49	2.25
LL		3.57	5.39	3.61	5.41
WLL		-8.07	-11.14	-3.52	-7.79
WLR		-3.51	-7.80	-8.07	-11.14
WLL1		-3.53	-6.80	-3.53	-6.80
WLR1		-0.73	-2.53	-0.73	-2.53
WEW		-5.39	-11.60	-5.39	-11.60
WLL2		-6.20	-6.35	-1.65	-2.99
WLR2		-1.64	-2.99	-6.19	-6.34
WLL3		-5.39	-11.60	-5.39	-11.60
WLR3		-2.61	-7.33	-2.61	-7.33
COMB #	1	6.44	10.02	6.48	10.04
COMB #	2	-7.24	-9.71	-2.69	-6.37
COMB #	4	-2.68	-6.37	-7.24	-9.71
COMB #	18	-4.56	-10.17	-4.56	-10.17

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
 COMB # 2--> 1.00 X(0.60DL+ WLL)  
 COMB # 4--> 1.00 X(0.60DL+ WLR)  
 COMB # 18--> 1.00 X(0.60DL+ WEW)

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RUFFIN (37.4)  
 11-Jan-2012  
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ENDWALL DESIGN SYSTEM

\*\*\*\*\* ENDWALL C COLUMN DESIGN \*\*\*\*\*

PRELIMINARY COLUMN REACTIONS

COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 20.00		COL @ 40.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.30	0.00	0.30
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
WL+	4.18	0.00	4.18	0.00
WL-	-4.62	0.00	-4.62	0.00
DL + LL + COL	0.00	0.30	0.00	0.30
0.6DL + WL+	4.18	0.18	4.18	0.18
0.6DL + WL-	-4.62	0.18	-4.62	0.18
DL+0.75(LL+COL+WL+)	3.13	0.30	3.13	0.30
DL+0.75(LL+COL+WL-)	-3.47	0.30	-3.47	0.30

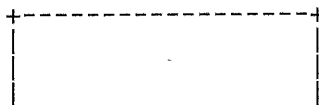
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RUFFIN (37.4)  
 11-Jan-2012  
 ERIC

VAL091  
 08:54:28  
 Release 36.4

VALCOM INC

\*\*\*\*\* PORTAL FRAME DESIGN \*\*\*\*\*  
 REACTIONS





WALL	BRACED BAY #	LOAD NAME	DIST FROM EWC (FT)	DIST FROM SWA (FT)	HORIZONTAL (KIPS)	VERTICAL (KIPS)
SWA	1	WLB+	0.00		-2.88	-2.33
SWA	1	WLB+	30.00		-2.88	3.44
SWA	1	WLB-	0.00		2.88	3.44
SWA	1	WLB-	30.00		2.88	-2.33
SWB	1	WLB+	0.00		-2.88	-2.33
SWB	1	WLB+	30.00		-2.88	3.44
SWB	1	WLB-	0.00		2.88	3.44
SWB	1	WLB-	30.00		2.88	-2.33



