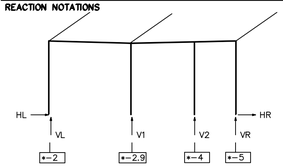
FRAME ID #6 ms2 81.792/32.5/19.5 20./98 | USER NAME: bdcloar JOB NAME: 26518A | DATE: 4/20/16 FILE: frame_j.fra | PAGE: 6-3

SUPPORT REACTIONS FOR EACH LOAD GROUP
•LOCATION: Gridlines: J
NOTE: All reactions are in kips and kip-ft. TIME: 12:37:53

REACTION NOTATIONS

Grid Line "J"
Building "A"



LOAD GROUP REACTION TABLE • = J

COLUMN	•-2			•-5			•-2.9			•-4		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR	H1	V1	LN1	H2	V2	LN2
DL	0.5	10.3	0.0	−0.5	4.7	0.0	0.0	9.4	0.0	0.0	2.2	0.0
COLL	0.3	5.7	0.0	−0.4	3.3	0.0	−0.0	11.8	0.0	−0.0	6.2	0.0
PSL1	1.3	18.8	0.0	−1.3	4.0	0.0	0.0	24.1	0.0	−0.0	−8.1	0.0
PSL2	−0.3	−1.4	0.0	0.3	−3.3	0.0	−0.0	15.7	0.0	0.0	18.4	0.0
PSL3	0.3	0.4	0.0	−0.3	10.7	0.0	−0.0	−1.0	0.0	0.0	10.2	0.0
SNOW	1.4	30.4	0.0	−1.6	11.1	0.0	0.0	42.8	0.0	−0.0	18.1	0.0
LL	1.0	17.0	0.0	−1.0	8.0	0.0	0.0	19.5	0.0	−0.0	5.6	0.0
PL	0.2	1.8	0.0	−0.2	−0.0	0.0	0.0	14.8	0.0	−0.0	7.5	0.0
H1	0.0	0.5	0.0	−0.0	0.0	0.0	0.0	−0.5	0.0	−0.0	0.1	0.0
H2	0.0	0.4	0.0	−0.0	0.1	0.0	0.0	−0.4	0.0	−0.0	−0.1	0.0
H3	0.0	0.2	0.0	−0.0	0.2	0.0	0.0	0.2	0.0	−0.0	−0.6	0.0
H4	0.0	0.2	0.0	−0.0	0.2	0.0	0.0	0.2	0.0	−0.0	−0.6	0.0
RBDWEQ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EQ	−3.7	−3.8	0.0	−4.6	10.4	0.0	0.0	7.1	0.0	−0.0	−12.8	0.0
RBUPEQ	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WL1	−5.0	−18.2	0.0	−4.9	6.4	0.0	0.0	−9.3	0.0	−0.0	−8.0	0.0
WL2	−6.4	−14.8	0.0	−4.0	9.0	0.0	0.0	−6.0	0.0	−0.0	−6.9	0.0
WL3	4.8	−9.7	0.0	5.5	−7.8	0.0	−0.0	−16.2	0.0	0.0	4.7	0.0
WL4	3.4	−6.3	0.0	6.4	−5.2	0.0	−0.0	−12.8	0.0	0.0	5.8	0.0
LWL1	2.3	−16.7	0.0	−1.0	−1.5	0.0	−0.0	−13.2	0.0	0.0	1.9	0.0

LOAD GROUP DESCRIPTION

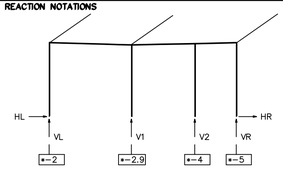
DL	:	Roof Dead Load
COLL	:	Roof Collateral Load
PSL1	:	Pattern Snow Load [PSLxx]
PSL2	:	Pattern Snow Load [PSLxx]
PSL3	:	Pattern Snow Load [PSLxx]
SNOW	:	Roof Snow Load
LL	:	Roof Live Load
PL	:	User Entered Load
H1	:	User Entered Load
H2	:	User Entered Load
H3	:	User Entered Load
H4	:	User Entered Load
RBDWEQ	:	Downward Acting Rod Brace Load from Long. Seismic
EQ	:	Lateral Seismic Load [parallel to plane of frame]
RBUPEQ	:	Upward Acting Rod Brace Load from Longit. Seismic
WL1	:	Lateral Primary Wind Load
WL2	:	Lateral Primary Wind Load
WL3	:	Lateral Primary Wind Load
WL4	:	Lateral Primary Wind Load
LWL1	:	Longitudinal Primary Wind Load

FRAME ID #6 ms2 81.792/32.5/19.5 20./98 | USER NAME: bdcloar JOB NAME: 26518A | DATE: 4/20/16 FILE: frame_j.fra | PAGE: 6-4

SUPPORT REACTIONS FOR EACH LOAD GROUP
•LOCATION: Gridlines: J
NOTE: All reactions are in kips and kip-ft. TIME: 12:37:53

REACTION NOTATIONS

Grid Line "J"
Building "A"



LOAD GROUP REACTION TABLE • = J

COLUMN	•-2			•-5			•-2.9			•-4		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR	H1	V1	LN1	H2	V2	LN2
RBUPLW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LWL2	2.3	−15.2	0.0	−1.1	−2.3	0.0	−0.0	−12.6	0.0	0.0	0.8	0.0
LWL3	2.7	−5.6	0.0	−1.3	−5.2	0.0	−0.0	−5.7	0.0	0.0	−0.3	0.0
LWL4	2.7	−4.9	0.0	−1.3	−5.6	0.0	−0.0	−5.4	0.0	0.0	−0.7	0.0
SBAL	1.2	21.9	0.0	−1.3	11.4	0.0	0.0	38.8	0.0	−0.0	20.5	0.0
DSNW	0.2	11.3	0.0	−0.4	3.0	0.0	0.0	3.4	0.0	−0.0	2.6	0.0
RBDWLW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION

RBUPLW	:	Upward Acting Rod Brace Load from Longitud. Wind
LWL2	:	Longitudinal Primary Wind Load
LWL3	:	Longitudinal Primary Wind Load
LWL4	:	Longitudinal Primary Wind Load
SBAL	:	Code Calculated Balanced Roof Snow Load
DSNW	:	Drifting Snow
RBDWLW	:	Downward Acting Rod Brace Load from Longit. Wind

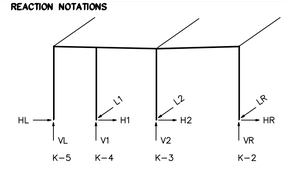
FRAME DESCRIPTION: Endwall EWD | USER NAME: bdcloar JOB NAME: 26518A | DATE: 4/20/16 FILE: REW48LDG1 | PAGE: EW-4

PATH: R:\Jobs\Active\ENG\15-B-26518\ver02-bdcloar\Bldg-A\run04\

SUPPORT REACTIONS FOR EACH LOAD GROUP
NOTE: All reactions are in kips and kip-ft. TIME: 09:36:05

REACTION NOTATIONS

Grid Line "K"
Building "A"



LOAD GROUP REACTION TABLE

COLUMN	K-5			K-2			K-4			K-3		
LOAD GROUP	HL	VL	LL	HR	VR	LR	H1	V1	L1	H2	V2	L2
D	0.0	1.1	0.	0.0	1.8	0.	0.	1.8	0.0	0.	3.3	0.0
C	0.0	0.6	0.	0.0	1.6	0.	0.	1.5	0.0	0.	2.8	0.0
L	0.0	1.2	0.	0.0	3.3	0.	0.	3.0	0.0	0.	5.6	0.0
S	0.1	3.4	0.	−0.1	12.0	0.	0.	8.4	0.0	0.	15.5	0.0
SBAL	0.1	3.4	0.	−0.1	6.4	0.	0.	8.4	0.0	0.	15.5	0.0
W+	0.0	−1.7	0.	−0.5	−3.8	2.8	0.	−3.3	4.7	0.	−6.1	6.6
W−	0.0	−1.7	0.	−0.5	−3.8	−3.1	0.	−3.3	−5.2	0.	−6.1	−7.4
WR	0.0	−1.7	0.	0.0	−2.7	0.	0.	−0.9	0.0	2.1	−8.5	0.0
WL	0.0	−1.7	0.	0.0	−2.7	0.	−2.1	−5.7	0.0	0.	−3.7	0.0
DR	0.0	0.5	0.	0.0	0.2	0.	0.	0.2	0.0	0.	0.1	0.
ER	0.	0.	0.	0.	0.	0.	0.	1.9	0.	1.7	−1.9	0.
EL	0.	0.	0.	0.	0.	0.	−1.7	−2.0	0.	0.	2.0	0.

LOAD GROUP DESCRIPTION

D	:	DEAD LOAD
C	:	COLLATERAL LOAD
L	:	LIVE LOAD
S	:	DESIGN SNOW LOAD
SBAL	:	BALANCED ROOF SNOW
W+	:	WIND LOAD AS AN INWARD ACTING PRESSURE
W−	:	WIND LOAD AS AN OUTWARD ACTING SUCTION
WR	:	WIND FORCE FROM THE RIGHT
WL	:	WIND FORCE FROM THE LEFT
DR	:	DRIFT SNOW
ER	:	EARTHQUAKE FORCE FROM RIGHT
EL	:	EARTHQUAKE FORCE FROM LEFT

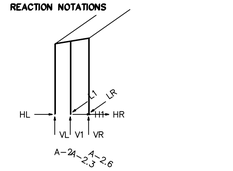
FRAME DESCRIPTION: Endwall EWB | USER NAME: bdcloar JOB NAME: 26518J | DATE: 4/19/16 FILE: REW36LDG1 | PAGE: EW-1

PATH: R:\Jobs\Active\ENG\15-B-26518\ver01-bdcloar\Bldg-J\run01\

SUPPORT REACTIONS FOR EACH LOAD GROUP
NOTE: All reactions are in kips and kip-ft. TIME: 07:40:55

REACTION NOTATIONS

Grid Line "A"
Building "B"



LOAD GROUP REACTION TABLE

COLUMN	A-2			A-2.6			A-2.3		
LOAD GROUP	HL	VL	LL	HR	VR	LR	H1	V1	L1
D	0.0	4.3	0.	0.0	1.3	0.	0.	4.5	0.0
C	0.0	1.5	0.	0.0	0.9	0.	0.	2.0	0.0
L	0.1	10.7	0.	0.0	1.7	0.	0.	11.8	−0.1
S	0.1	6.8	0.	0.0	3.9	0.	0.	9.2	0.1
SBAL	0.0	3.1	0.	0.0	3.9	0.	0.	9.2	0.1
W+	1.4	−6.6	0.	0.0	−11.3	4.3	0.	−5.9	4.8
W−	1.4	−2.5	0.	0.0	−0.9	0.	0.	−5.9	−5.4
WR	0.0	30.4	0.	0.0	−3.1	0.	7.2	−38.2	0.0
WL	−6.6	−32.3	0.	0.0	−3.1	0.	0.	24.5	0.0
E+	0.	−1.4	0.	0.	−3.3	1.8	0.	0.	0.
E−	0.	1.5	0.	0.	3.4	0.	0.	0.	0.
ER	0.	5.1	0.	0.	0.	0.	1.1	−5.1	0.
EL	−1.1	−5.3	0.	0.	0.	0.	0.	5.3	0.

LOAD GROUP DESCRIPTION

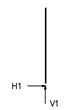
D	:	DEAD LOAD
C	:	COLLATERAL LOAD
L	:	LIVE LOAD
S	:	DESIGN SNOW LOAD
SBAL	:	BALANCED ROOF SNOW
W+	:	WIND LOAD AS AN INWARD ACTING PRESSURE
W−	:	WIND LOAD AS AN OUTWARD ACTING SUCTION
WR	:	WIND FORCE FROM THE RIGHT
WL	:	WIND FORCE FROM THE LEFT
E+	:	EARTHQUAKE FORCE ACTING INWARD
E−	:	EARTHQUAKE FORCE ACTING OUTWARD
ER	:	EARTHQUAKE FORCE FROM RIGHT
EL	:	EARTHQUAKE FORCE FROM LEFT

FRAME ID #1 Mezz Beam | USER NAME: bdcloar JOB NAME: 15-B-26518 | DATE: 4/ 8/16 FILE: soldier_column.fra | PAGE: 1-3

SUPPORT REACTIONS FOR EACH LOAD GROUP
LOCATION: Mezz Beam
NOTE: All reactions are in kips and kip-ft. TIME: 13:31:36

REACTION NOTATIONS

Grid Line "A.7"
Building "B"



LOAD GROUP REACTION TABLE

SUPPORT	2-A.7		
LOAD GROUP	H1	V1	LN1
DL	−0.01	0.70	0.00
COLL	−0.03	1.43	0.00
PSLL1	−0.12	6.63	0.00
SNOW	−0.12	6.63	0.00
LL	−0.05	2.87	0.00
RBUPEQ	−0.01	0.00	0.00
RBDWEQ	0.01	−0.00	0.00
EQ	−0.31	0.00	0.00
WL1	0.28	−3.06	0.00
WL2	−1.42	−0.35	0.00
LWL1	1.57	−3.14	0.00
RBUPLW	−0.01	0.00	0.00
LWL2	1.56	−3.05	0.00
LWL3	1.55	−2.30	0.00
LWL4	1.55	−2.27	0.00
WL3	1.31	−2.27	0.00
WL4	−0.40	0.44	0.00
SBAL	−0.12	6.63	0.00
DSNW	−0.01	2.77	0.00
RBDWLW	0.01	−0.00	0.00

LOAD GROUP DESCRIPTION

DL	:	Roof Dead Load
COLL	:	Roof Collateral Load
PSLL1	:	Pattern Snow Load Left Leanto/Canopy [PSLLxx]
SNOW	:	Roof Snow Load
LL	:	Roof Live Load
RBUPEQ	:	Upward Acting Rod Brace Load from Longit. Seismic
RBDWEQ	:	Downward Acting Rod Brace Load from Long. Seismic
EQ	:	Lateral Seismic Load [parallel to plane of frame]
WL1	:	Lateral Primary Wind Load
WL2	:	Lateral Primary Wind Load
LWL1	:	Longitudinal Primary Wind Load
RBUPLW	:	Upward Acting Rod Brace Load from Longitud. Wind
LWL2	:	Longitudinal Primary Wind Load
LWL3	:	Longitudinal Primary Wind Load
LWL4	:	Longitudinal Primary Wind Load
WL3	:	Lateral Primary Wind Load
WL4	:	Lateral Primary Wind Load
SBAL	:	Code Calculated Balanced Roof Snow Load
DSNW	:	Drifting Snow
RBDWLW	:	Downward Acting Rod Brace Load from Longit. Wind

Reviewed for Code Compliance
Portland Code Consultants, Inc.
Date: 06/08/16

Revision	Date	Description	By	Ck'd

A&S BUILDING SYSTEMS
1880 HWY. 116, CARYVILLE, TENNESSEE 37714
PHONE: 865-426-2141 FAX: 865-426-2011

Project Name & Location:
BAYSIDE BOWL ADDITION
58 ALDER STREET
PORTLAND ME 04101

Customer:
AMERICAN AERIAL SERVICES
75 BISHOP STREET
PORTLAND ME 04103

Drawing Status:
☐ Preliminary Dbl. For Construction
☐ For Approval Dbl. For Construction
☐ For Construction Permit
☒ For Erector Installation

Scale: NOT TO SCALE
Drawn by: ML 4/23/16
Checked by: MARK 4/23/16
Project Engineer: BDC
Job Number: 15-B-26518-1
Sheet Number: F6 of 8

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Lee W. Lowe, P.E.
Maine P.E. 8861

Apr 26, 2016

STATE OF MAINE
LEE W. LOWE
8861
LICENSED
PROFESSIONAL ENGINEER