Suggested Platform Construction - 24' Yurt

Being what we call a 'soft' structure, the yurt reacts more readily to climatic conditions than do 'rigid' structures, therefore it is important to choose your site carefully and take into account prevailing wind patterns, overhead tree limbs, water runoff, etc. In general, the best site would be protected from the wind, would receive morning sun and afternoon shade and be free from overhead objects such as large dead tree limbs that could damage the yurt in heavy winds. Plan your entry so that the doorway faces away from prevailing winds.

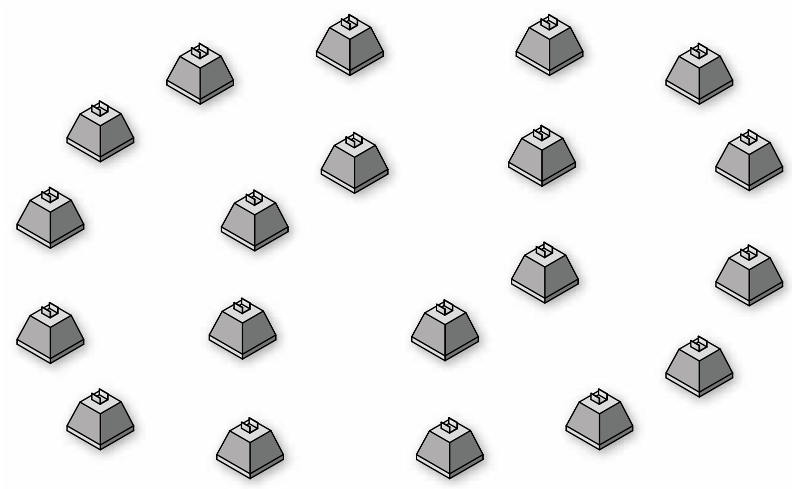
For a secure and comfortable installation, a well–built platform is necessary. To ensure a weather proof installation the platform needs to be circular and the same diameter as the yurt so the side cover fabric can extend below the interior floor level. This will provide a draft–free and watertight seal. Any exterior decking should be separated from, or at a lower level than the yurt platform. Unless you are skilled, enlist the help of an experienced carpenter for building the platform.

The following plans show the typical construction of the yurt platform and are a suggestion only. Keep in mind that every site will be different, so the platform construction and footings should reflect the conditions of each individual site. The site and soil conditions and local building requirements will dictate the footing size and depth below grade.

Notes:

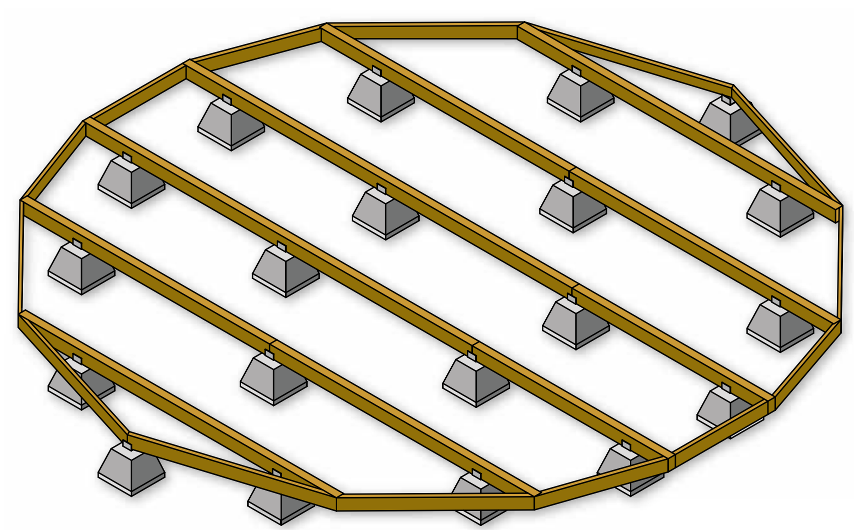
1. The bottom portion of the drip edge will be visible once the yurt is installed. It should be stained or painted to protect it and to match the exterior color scheme.
2. The 1" portion of the drip edge that extends above floor level will be visible on the inside and can be painted or stained to match the interior color scheme.
3. Plywood skirting (to prevent airflow beneath the floor) and a vapor barrier may also be desirable.
4. If you plan to connect the yurt to an existing building (or another yurt) be sure to allow a minimum of 12" between the existing building and your yurt platform. A covered walkway can be built to connect the two after the yurt is installed.
5. Keep in mind that the fabric windows open from the outside. If you plan to have the platform elevated you should consider adding a catwalk or exterior decking for window access.
6. If you plan to install a "floating" floor on your platform, please contact Pacific Yurts for recommendations on how to prepare the platform.
7. When using the 2x6 T&G flooring be sure it is kiln dried and has a low moisture content to avoid gaps as the wood dries.
8. Consider incorporating insulation between the beams maintaining 1" air space from the underside of your flooring. Pacific Yurts recommends using rigid foam insulation with reflective side facing upward, however it is also possible to use other insulation materials.

24' Platform Construction Overview



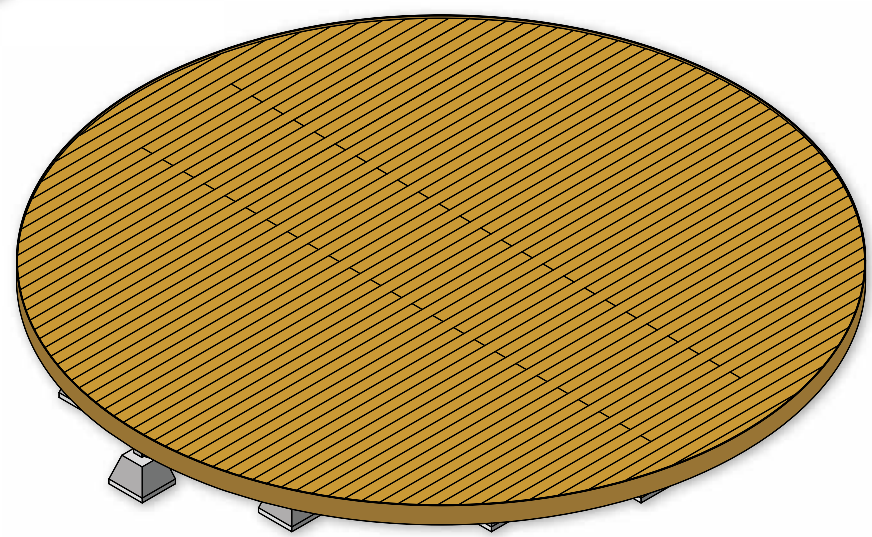
1.) Lay out footings according to framing plan and level.

Notes:
- Pre–cast or poured concrete footings may be appropriate. Consult a local contractor or engineer for proper determination.
- If you purchase the Central Column option an additional footing will be necessary in the center of the platform.



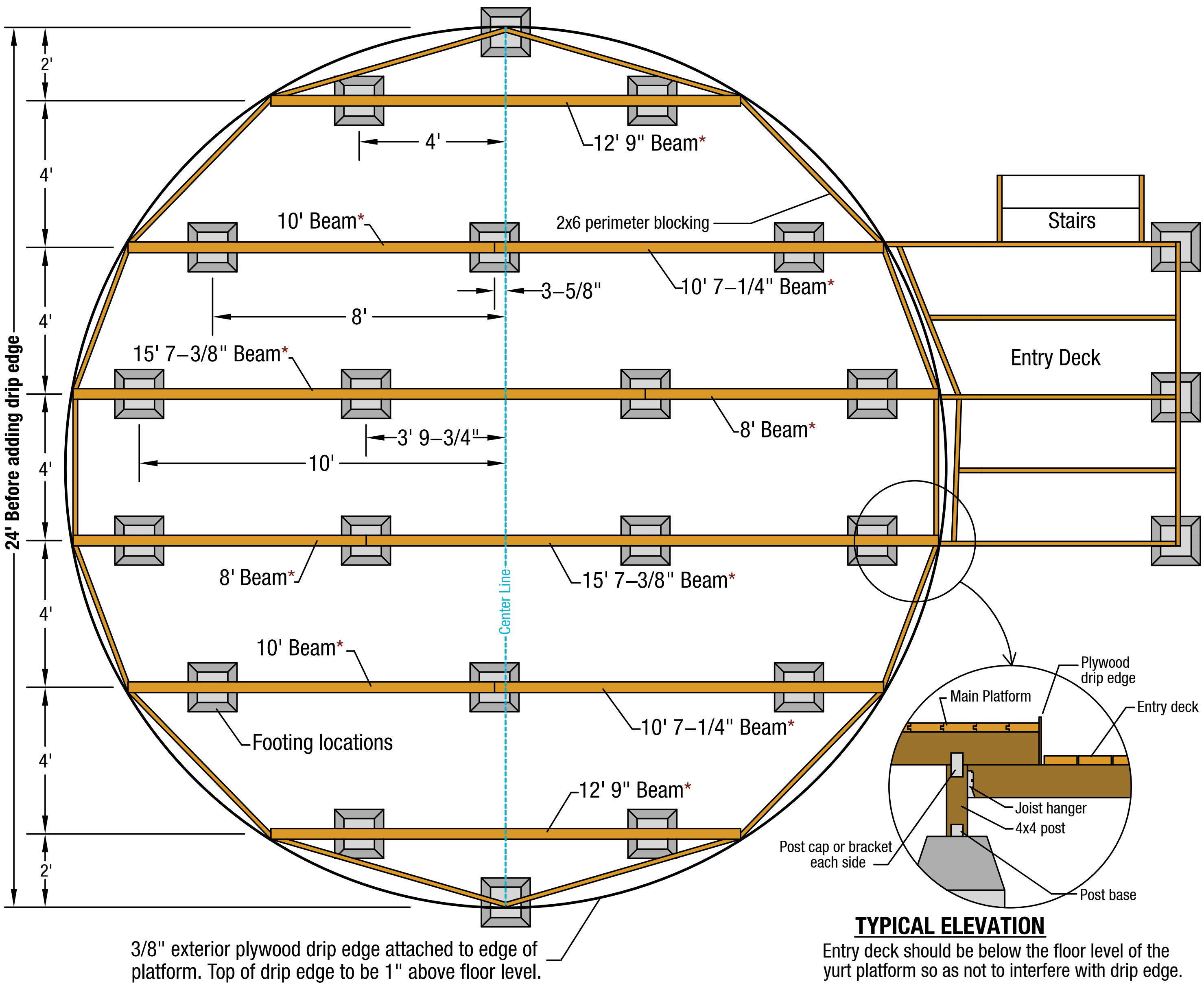
2.) Cut beams to length, level them, and fasten onto footings.
3.) Cut 2x6 perimeter blocking and fasten to beams.
4.) Install floor insulation (optional).

Notes:
- Diagram assumes level site. On sloping terrain vertical support posts and cross bracing may be necessary.
- If 1–1/8" plywood flooring is used we recommend adding 2x6 blocking between beams (four feet on center).
- If you plan to purchase the cable tie–down option an extra block will be needed in the center of the platform.



5.) Fasten flooring (1–1/8" plywood or 2x6 T&G) onto beams.
6.) Cut flooring into a circle with diameter matching that of the yurt.
7.) Cut 3/8" exterior plywood (OSB is best for small yurts) into strips of desired width and fasten around perimeter of flooring so that 1" protrudes above floor level. This is the plywood drip edge.
8.) Use caulking to provide a seal between flooring and drip edge.

Typical 24' Platform Framing Plan



TYPICAL ELEVATION

Entry deck should be below the floor level of the yurt platform so as not to interfere with drip edge.

*4"x6" or 4"x8" beams may be appropriate, depending on use and conditions.

Notes:

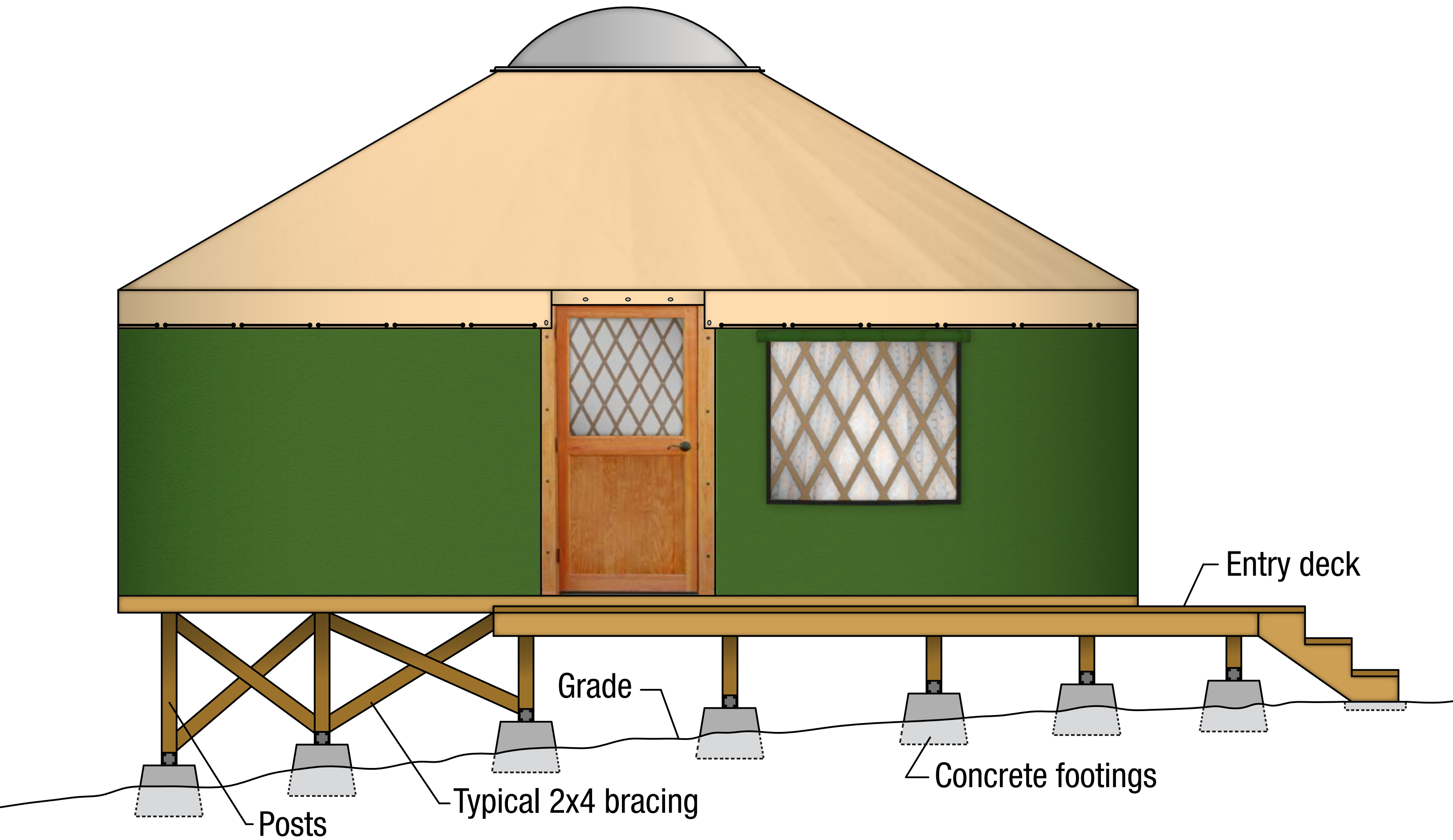
1.) Platform construction and footings should reflect conditions of each individual site and local building requirements.

2.) 2x6 T&G or 1–1/8" plywood flooring to be laid perpendicular to beams and trimmed to the same diameter as that of the yurt.

3.) 24' diameter measurement does not include the drip edge.

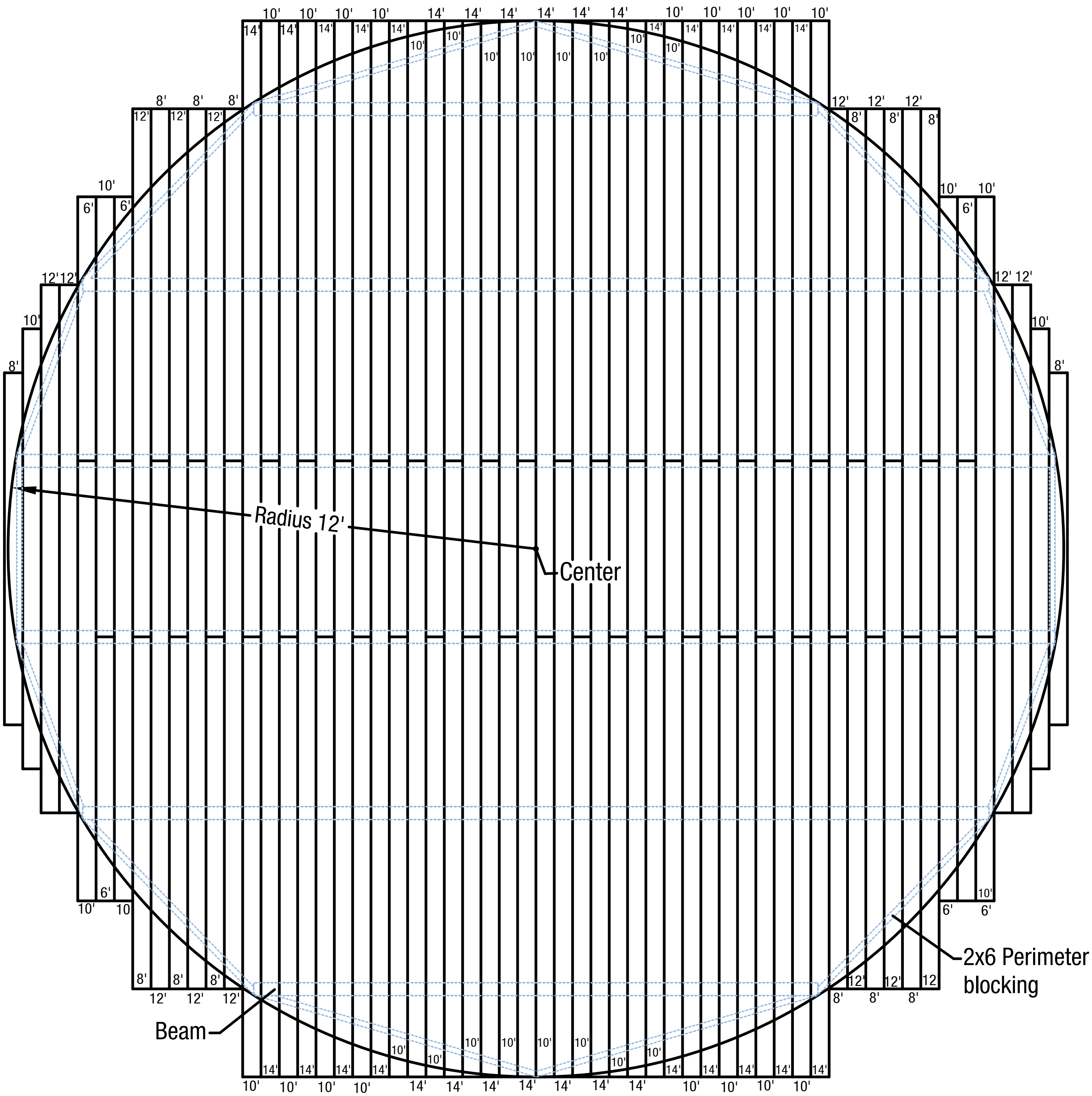
4.) Site and soil conditions and local building requirements will dictate footing size and depth below grade.

Typical Platform Elevation



Note: Platform and footings should be designed according to the conditions of each individual site and local building requirements. Site and soil conditions will dictate footing size and depth below grade.

2x6 T&G Layout - 24' Yurt



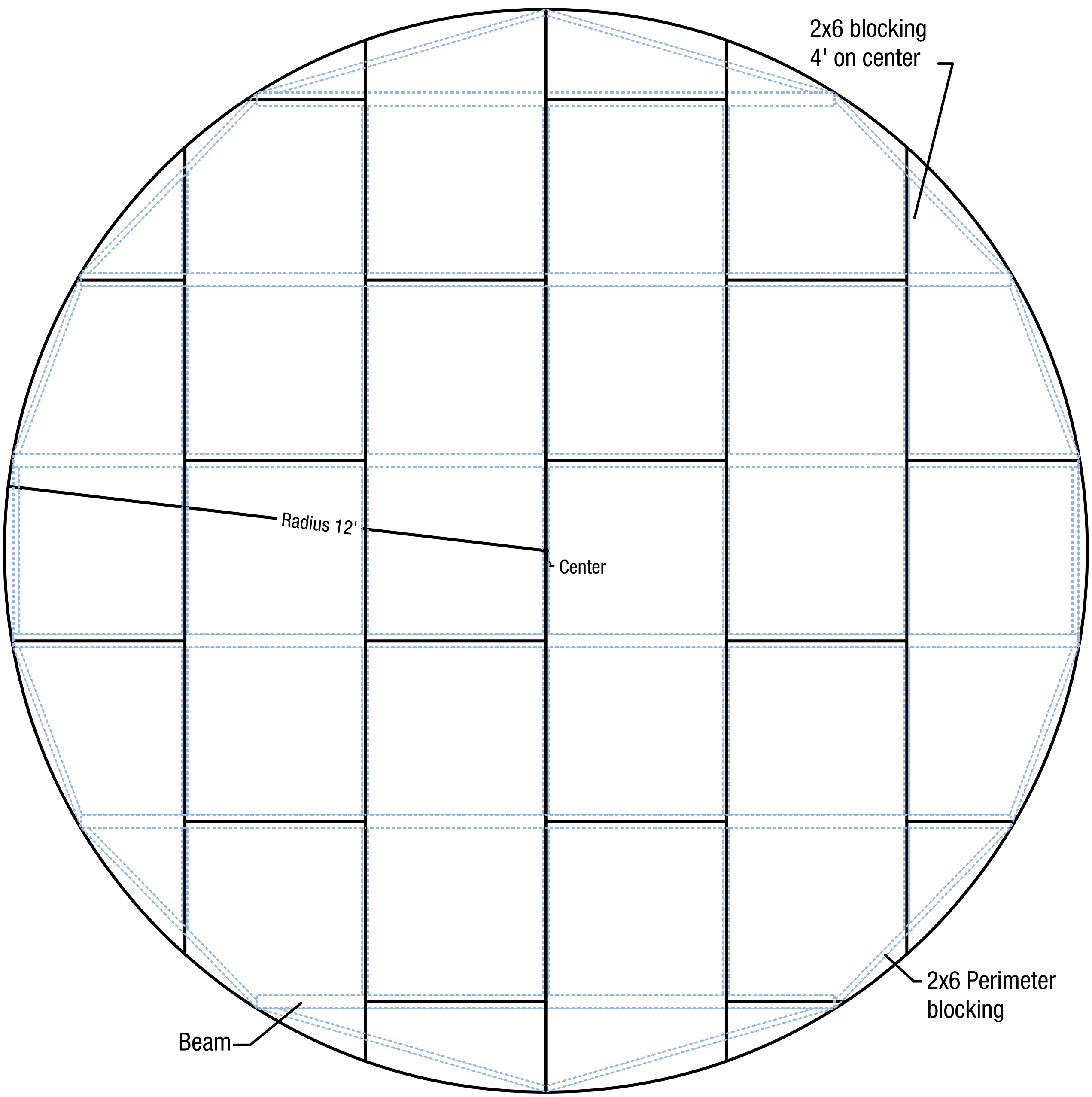
1.) Make a compass using a board or non–stretch string and a nail at the center to mark radius.

2.) Using a sharp circular saw carefully cut the platform to exactly 24 feet in diameter.

Note: 2x6 T&G is often used for open beam ceilings and may have a V–groove which should face down so as not to catch debris and make floor sweeping difficult.

Plywood Layout - 24' Yurt

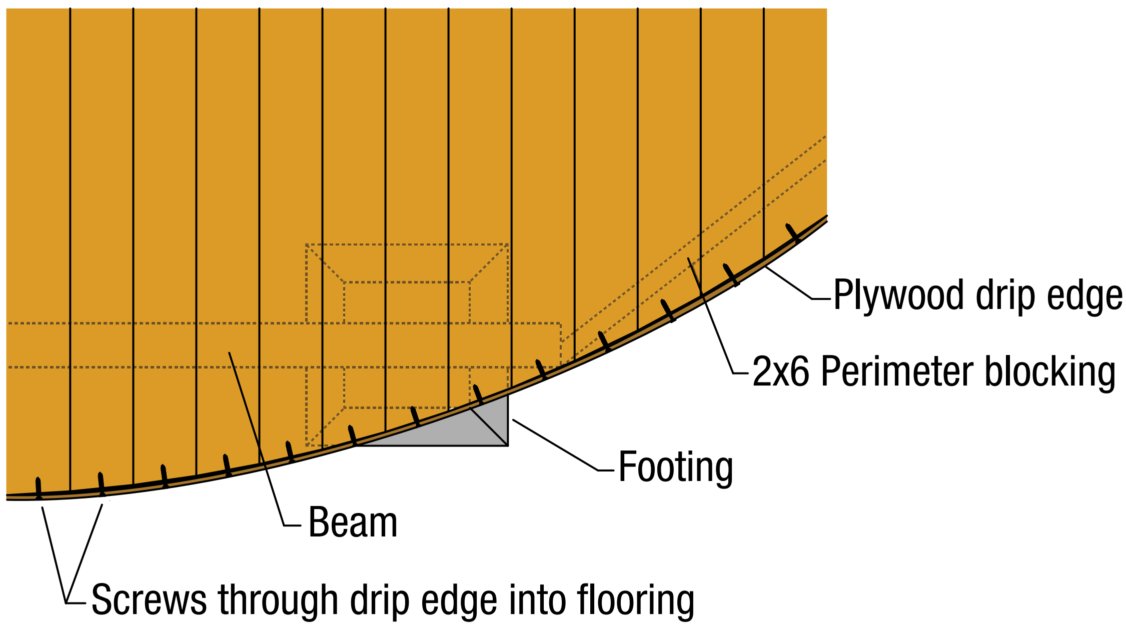
Note: Due to the tongue and groove on 1–1/8" plywood you may need to laminate a small piece of scrap to one edge in order to achieve the full diameter.



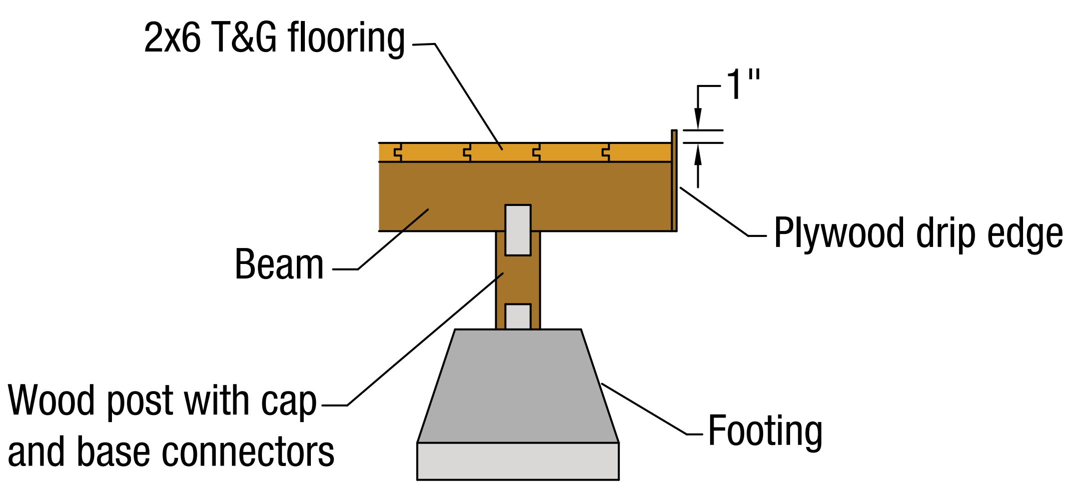
1.) Make a compass using a board or non–stretch string and a nail at the center to mark radius.

2.) Using a sharp circular saw carefully cut the platform to exactly 24 feet in diameter.

Plan View



Elevation



24' Diameter Yurt Platform Materials List

Note: This materials list represents the minimum amount of lumber required for a basic circular platform on flat level ground. It does not include any exterior deck/porch materials, insulation or footings. For sloped sites or to elevate the platform you will need to add posts and cross bracing.

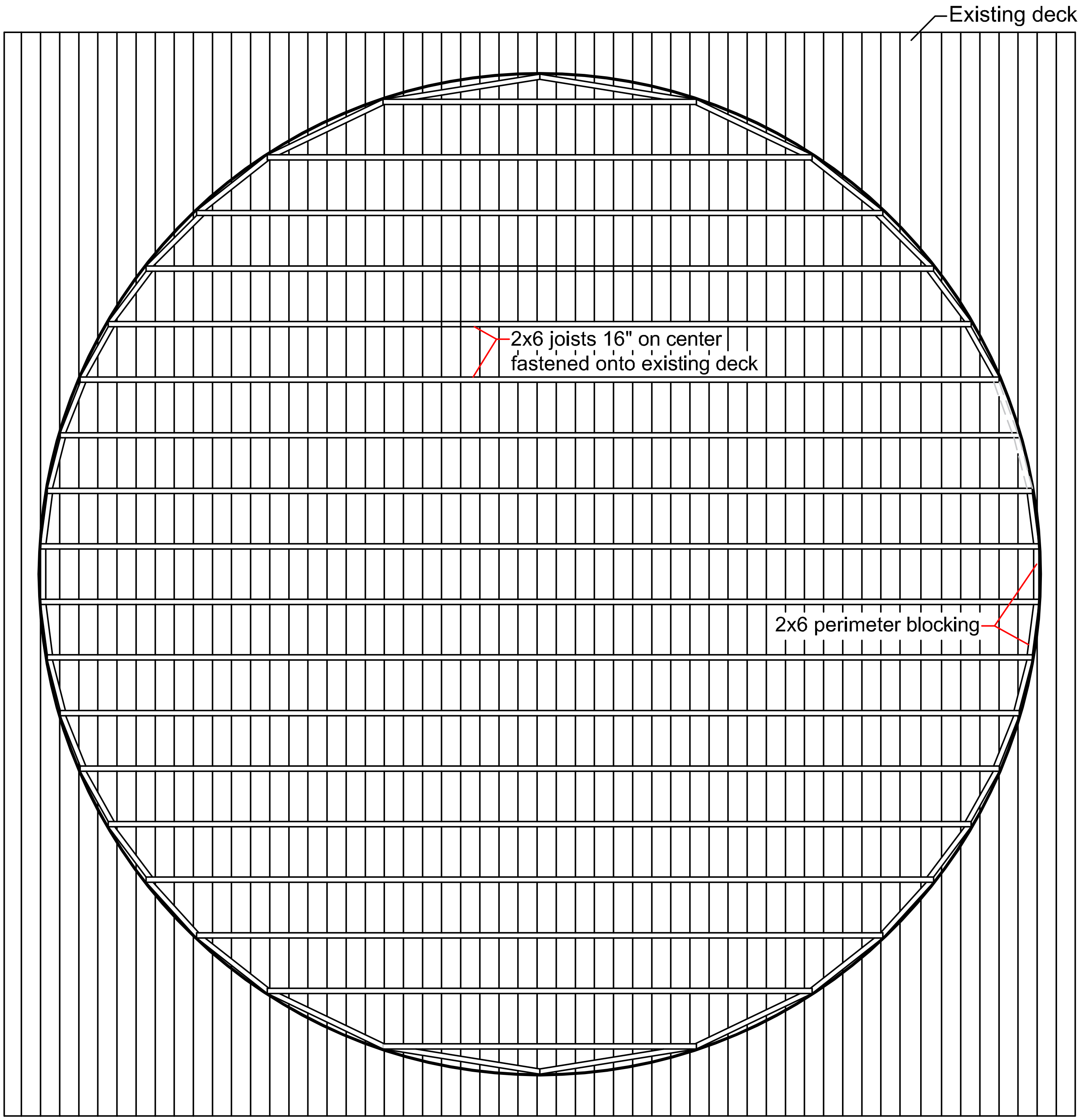
Platform Materials (2x6 T&G Flooring Option)

Material	Quantity	Use
2x6 Kiln Dried T&G 'Select Deck'	32 @ 14' 19 @ 12' 40 @ 10' 14 @ 8'	Platform Flooring
2x6 Standard & Better	4 @ 10' 9 @ 8'	Perimeter Blocking
4x6 or 4x8 Standard & Better	3 @ 16' 2 @ 14' 2 @ 12' 2 @ 10'	Beams
3/8" Exterior Plywood Siding (no groove)	3 Sheets (4' x 8')	Plywood Drip Edge

Platform Materials (1–1/8" Plywood Flooring Option)

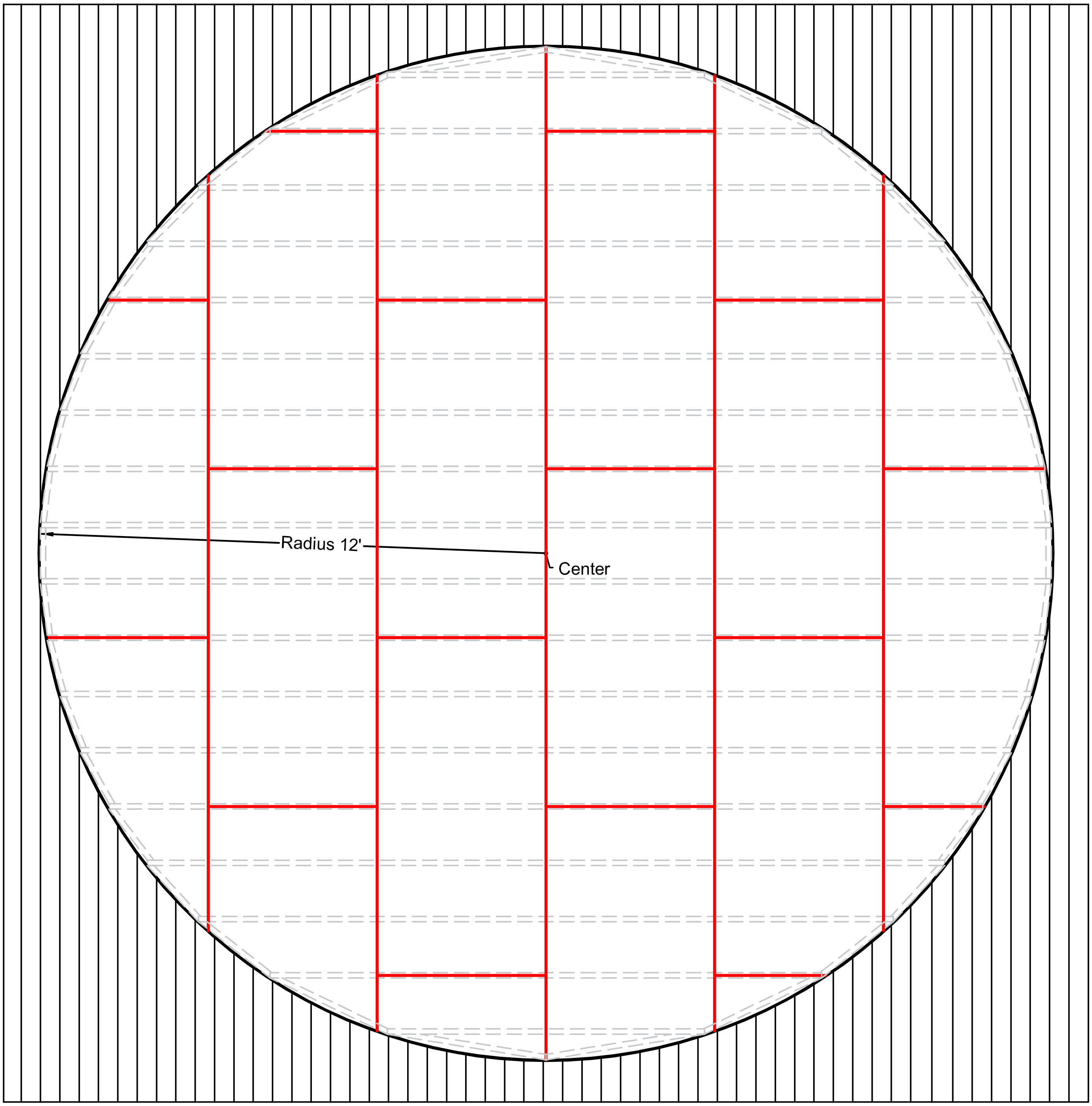
Material	Quantity	Use
1–1/8" T&G Plywood	18 Sheets (4' x 8')	Platform Flooring
2x6 Standard & Better	4 @ 10' 22 @ 8'	Blocking
4x6 or 4x8 Standard & Better	3 @ 16' 2 @ 14' 2 @ 12' 2 @ 10'	Beams
3/8" Exterior Plywood Siding (no groove)	3 Sheets (4' x 8')	Plywood Drip Edge

24' Platform On Existing Deck

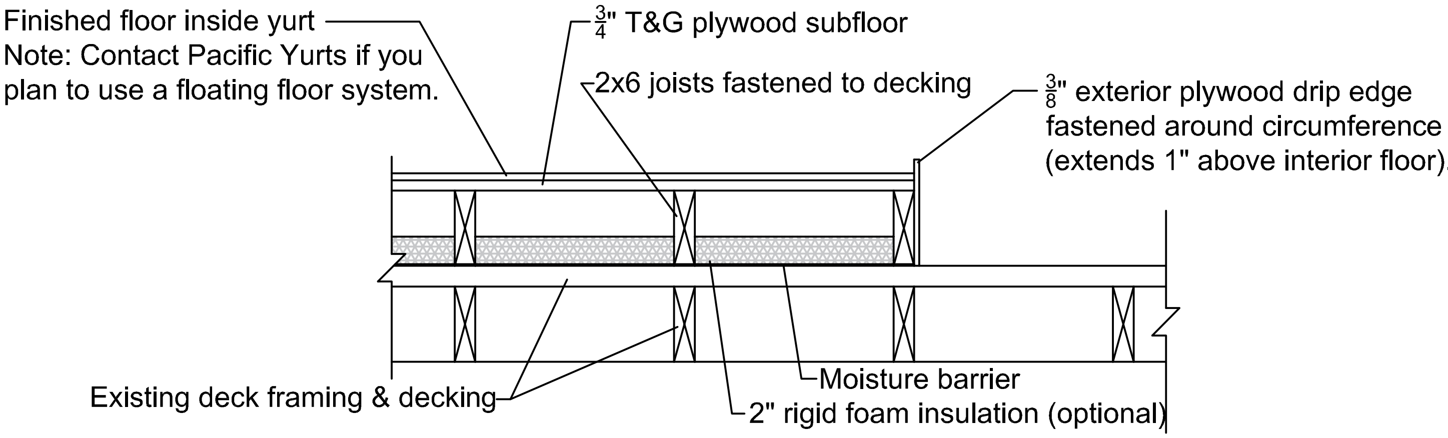


1) Mark 24 foot circle onto existing decking.
2) Cut and install 2x6 joists 16" o.c. so that they do not extend beyond the 24' circle.
3) Cut and install 2x6 blocking so that it does not extend beyond the 24' circle.

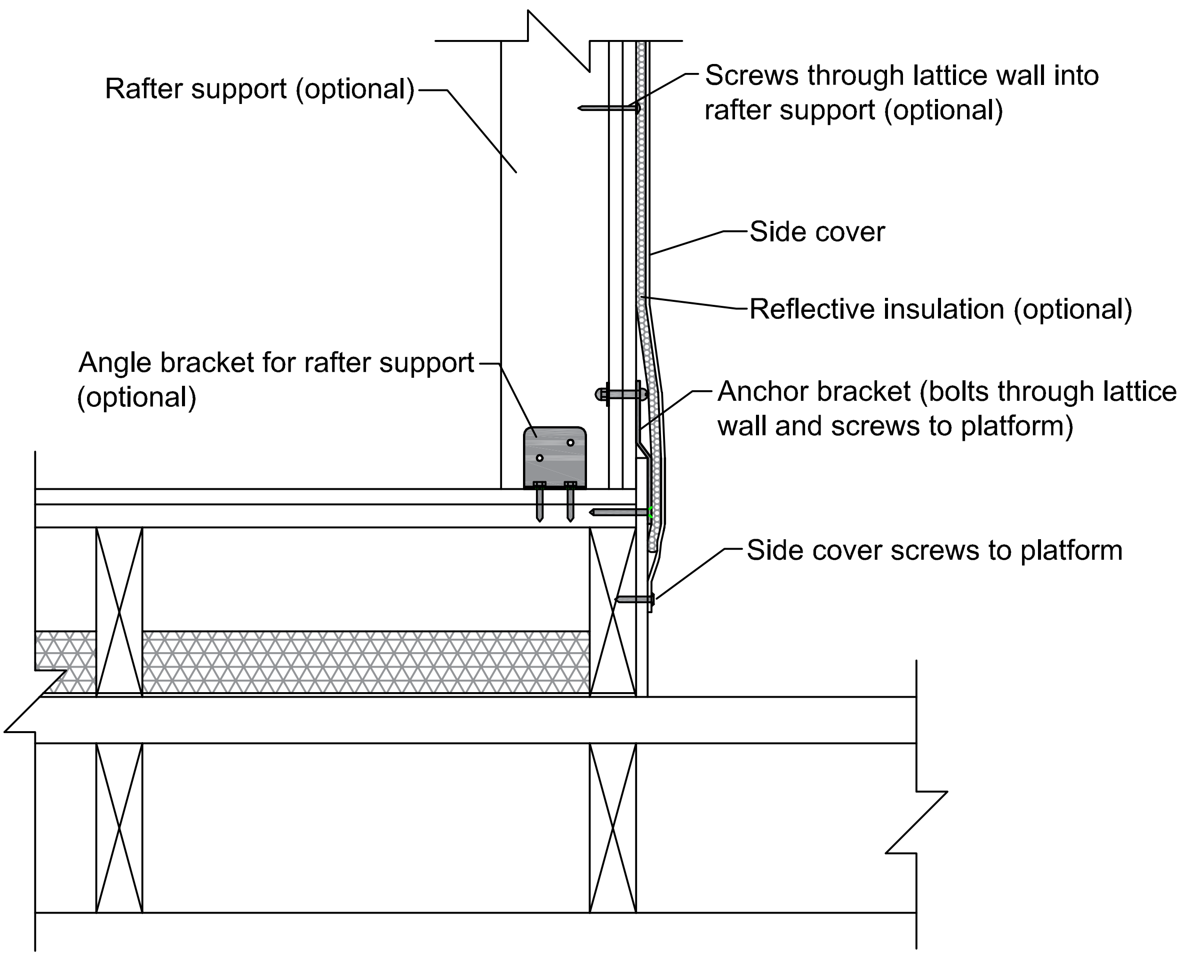
Plywood Layout



1) Fasten $\frac{3}{4}$" T&G plywood in layout as shown.
2) Mark 24 foot diameter circle onto plywood subfloor.
3) Install finished flooring (or 1x6 ring for floating floor) and cut both layers to exact diameter.
4) Install plywood drip edge along the outer circumference making sure 1" extends above floor level.



PLATFORM SECTION



YURT CONNECTION TO PLATFORM

LEWIS & VAN VLEET incorporated

principals
gary j. lewis, p.e., s.e.
scott r. debo, mba

STRUCTURAL CALCULATIONS
FOR
24' Diameter Yurt with Center Post

2018 International Building Code / ASCE 7-16 / Snow Load: 90 psf / Wind: 142 mph Ult., Exposure C

PREPARED FOR

Pacific Yurts, Inc.

REFERENCE ONLY
NOT FOR CONSTRUCTION

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 15,099 OREGON JAN. 23, 2001 GARY JAMES LEWIS

EXPIRES 12-31-2020

Lewis & Van Vleet Inc. Job Number 20033

NOTE: THESE CALCULATIONS WERE PREPARED TO DOCUMENT THE WIND AND GRAVITY LOAD CAPACITY OF A PROTOTYPE 24' DIAMETER YURT WITH CENTER POST FOR PACIFIC YURTS, INC. THE CALCULATIONS ARE NOT TO BE USED AS FINAL DESIGN CALCULATIONS FOR YURT INSTALLATIONS, OR AS PART OF A BUILDING DEPARTMENT PERMIT SUBMITTAL PACKAGE. SITE SPECIFIC DESIGNS MUST BE PREPARED CONSIDERING LOCAL LOADS AND CONDITIONS, BY AN ENGINEER LICENSED WITHIN THE LOCAL JUSIDICTION OF THE SITE. UNLESS THESE CALCULATIONS ARE WET-SIGNED IN RED INK FOR A SPECIFIC PROJECT LOCATION, LVI HAS NOT REVIEWED THE SITE SPECIFIC CONDITION, HAS NOT BEEN COMPENSATED FOR THE USE OF THE DESIGN, AND DISCLAIMS ALL LIABILITY FOR ANY SUCH UNAUTHORIZED USE.

consulting engineers
18660 s.w. boones ferry road
tualatin, oregon 97062
(503) 885-8605 phone
(503) 885-1206 fax

LEWIS & VAN VLEET

consulting engineers

18660 sw boones ferry rd.
tualatin, oregon 97062
(503) 885.8605 phone (503) 885.1206 fax

24' YURT with center post:

DEFINE UNITS: $psi := \frac{lbf}{in^2}$ $plf := \frac{lbf}{ft}$ $ksi := \frac{kip}{in^2}$ $psf := \frac{lbf}{ft^2}$

~~~~~~

SNOW LOAD: Design for 90 psf snow over vertical projected area. Use 10 psf unit load for RISA 3D Basic Load case input value -- Use 9.0 factor in Load Combinations for full snow, 6.75 factor for 0.75 snow.

$P_{snow} := 10 \cdot psf$

Snow load on rafters: At ring end: $w_{top} := P_{snow} \cdot .35 \cdot ft$ $w_{top} = 3.5\ plf$

At eave end: $w_{bottom} := P_{snow} \cdot 1.79 \cdot ft$ $w_{bottom} = 17.9\ plf$

Snow load on ring: $w_{ring} := P_{snow} \cdot \frac{\frac{\pi \cdot (4.5 \cdot ft)^2}{4}}{2 \cdot \pi \cdot \frac{4.5 \cdot ft}{2}}$ $w_{ring} = 11.3\ plf$

find ground snow load equal to 90 psf roof load:

assume yurt is unheated: $C_t := 1.2$

assume exposure C terrain, sheltered: $C_e := 1.2$

importance factor: $I_s := 1.0$

roof slope = 29.4 deg, slippery surface: $C_s := .77$

ground snow load: $\frac{90 \cdot psf}{.7 \cdot C_e \cdot C_t \cdot I_s \cdot C_s} = 116\ psf$ 116 psf ground snow OK

Rafter unbraced lengths: Use distance between nodes for weak axis unbraced length.
Use distance from ring to inside face of stud for strong axis Lu.
~~~~~~

WIND LOAD:

Use ASCE 7-16 design method for domed structures,
Risk Category II structure, no terrain effects, Kzt=0.
Design for 110 mph exposure C.
See Sheet S-3.

SEISMIC LOAD:

Due to high design wind load and lightweight mass of the yurt structure, seismic does not control lateral design.

MEMBERS USED

RAFTERS: 2x6 select structural

STUDS: 2x4 select structural DF

RING: 4x5 Number 1 DF

CABLE: 1/4" diameter aircraft cable

LATH: 7/16" x 1 1/2" kiln dried DF#1

$l_e := 0.82 \cdot 23.5 \cdot in$ $\qquad$ $d := \frac{7}{16} \cdot in$

$\frac{l_e}{d} = 44$ $\qquad$ < 50 OK

CENTER POST: HSS 4x4x.188 with (4) HSS 3x3x.188 to ring and L4x4x1/4 brackets

WIND LOAD - 142 MPH EXPOSURE C:

Assume no topographic effects.
Roof angle = 42.7 degrees

$K_z := 0.85$

$K_{zt} := 1.0$

$K_d := 0.95$

$V := 142$

$I := 1.0$

$q_z := .6 \cdot .00256 \cdot K_z \cdot K_{zt} \cdot K_d \cdot V^2 \cdot psf$ $\qquad$ $q_z = 25\ \boldsymbol{psf}$

TOTAL DRAG LOAD ON WALLS: ASCE 7-16 Fig. 29.4-1

$G := 0.85$ (rigid structure) Moderately Smooth

Cf: h/d = 12.33'/24'
h/d = .51
D*(qz)^.5 = 24*(25)^.5 = 120

Therefore, $C_f := 0.5$

$p := q_z \cdot G \cdot C_f$

$p = 10.6\ \boldsymbol{psf}$

LOAD ON WINDWARD SIDE

10.6 psf *.6= 6.4 psf

LOAD ON LEEWARD SIDE

10.6 psf *.4= 4.2 psf

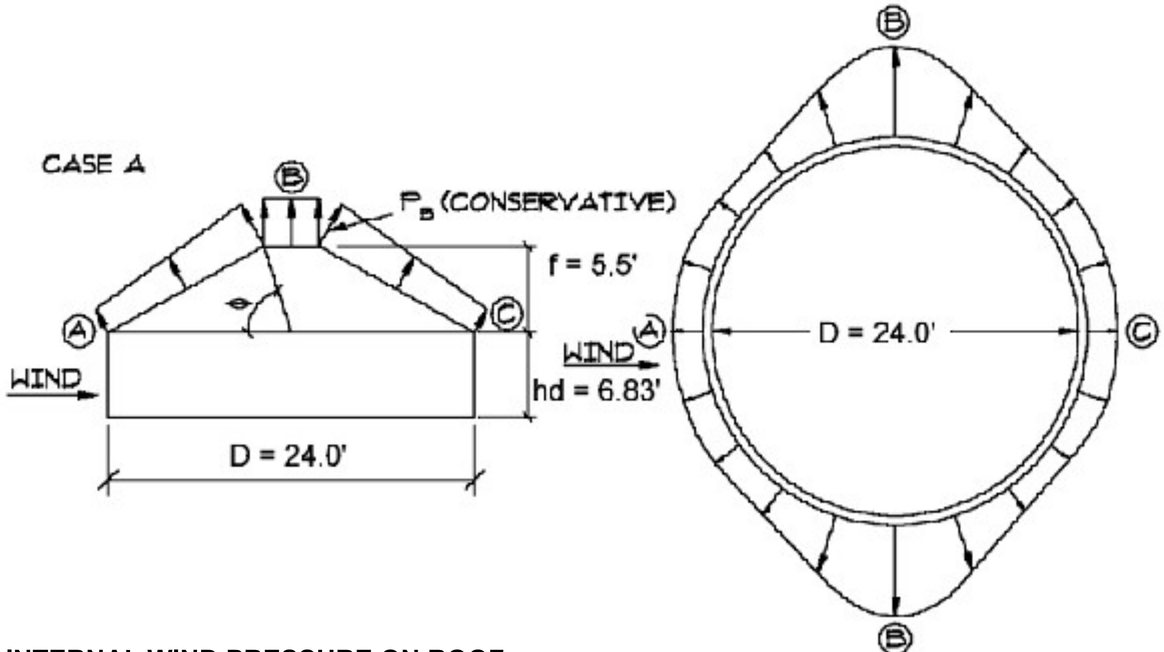
WIND PRESSURE ON ROOF:

$q_{unit} := 10 \cdot psf$

p=qp*G*Cp-qi*(G*Cpi)

Use domed mwfrs roof pressures per Figure 27.3-2

WIND ON DOME:



INTERNAL WIND PRESSURE ON ROOF

$GC_{pi} := 0.18$

$q_{unit} \cdot GC_{pi} = 1.8\ psf$

EXTERNAL WIND PRESSURE ON ROOF

$G = 0.85$ $h_d := 6.83 \cdot ft$ $D := 24 \cdot ft$ $f := 5.50 \cdot ft$

$\frac{h_d}{D} = 0.28$ $\frac{f}{D} = 0.23$

Cp POINT A

f/D	hd/D = 0.25	hd/D = 1.0	hd/D = 0.44
0.2	-0.675	- 1.567	- 0.71
0.3	-0.190	- 1.450	- 0.24

AT f / D = 0.23, $C_{pA} := -0.57$

EXTERNAL WIND PRESSURE ON ROOF:

Cp POINT B

f/D	hd/D = 0	hd/D = 0.25	hd/D = 0.23
0.1	- 0.35	- 0.80	- 0.60
0.2	- 0.52	- 1.28	- 0.95

AT f / D = 0.18, $C_{pB} := -0.88$

Cp POINT C

hd/D = 0	hd/D = 0.50	hd/D = 0.28
0	-0.50	-0.28

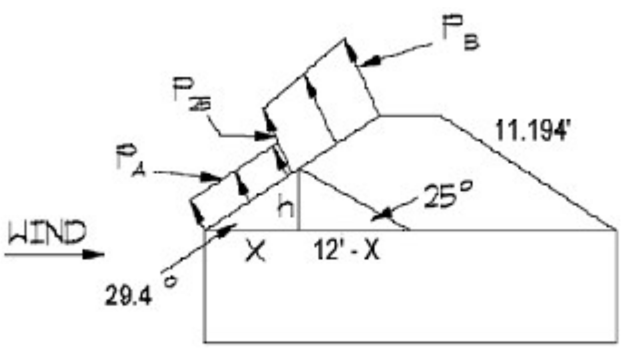
$C_{pC} := -0.28$

EXTERNAL WIND PRESSURE ON ROOF AT POINTS A, B, & C:

$P_A := q_{unit} \cdot G \cdot C_{pA} - q_{unit} \cdot GC_{pi}$ $P_A = -6.6$ ***psf***

$P_B := q_{unit} \cdot G \cdot C_{pB} - q_{unit} \cdot GC_{pi}$ $P_B = -9.3$ ***psf***

$P_C := q_{unit} \cdot G \cdot C_{pC} - q_{unit} \cdot GC_{pi}$ $P_C = -4.2$ ***psf***



TAN 25 = h / (12 - X) = 0.466
TAN 29.4 = h / X = 0.563
h = 0.466 (12') - 0.466X = 5.6' - 0.466X
0.563 = (5.6' - 0.466X) / X
X = 5.44'

P25 IS LOCATED AT 5.44' / cos 29.4 = 6.25' HORIZ.
P25 = - 8.1 PSF
TRIB. = 0.35 + 1.44*[(11.194' - 4.944") / 11.194']
= 1.15' UP ROOF SLOPE

WIND LOAD AT TOP OF RAFTER:

P = 10.1 PSF
w = 10.1 PSF (0.28') / (1000 LB / K) = 0.003 K / FT

WIND LOAD ON RING:

A = PI (4.5')^2 / 4 = 15.9 SQ. FT.
C = PI (4.5') = 14.1'
w = 10.1 PSF (15.9 SQ. FT. / 14.1') / (1000 LB / K) = 0.011 K / FT

WIND LOAD ON WALLS:

TOTAL DRAG LOAD ON WALLS:

P = q unit *[G*Cf]
h / D = 12.33' / 30' = 0.51
D*(q unit)^.5= 24'*(10)^.5 = 76 > 25
THEREFORE Cf = 0.5

$C_f = 0.5$

$P_w := q_{unit} \cdot G \cdot C_f$ $\quad$ $P_w = 4.3\ \mathbf{psf}$

LOAD ON WINDWARD WALLS:

$P_{www} := .6 \cdot P_w$ $\quad$ $P_{www} = 2.6\ \mathbf{psf}$

LOAD ON LEEWARD WALLS:

$P_{lww} := .4 \cdot P_w$ $\quad$ $P_{lww} = 1.7\ \mathbf{psf}$

WIND TORSION - WIND CASE 2: S-7

CHECK DESIGN WIND LOAD CASES FROM FIGURE 27.3-8. LOAD CASE 1 FULL FACE DESIGN PRESSURES FROM SHEET S-6. BY INSPECTION, DESIGN WIND LOAD CASES 3 & 4 ARE NOT APPLICABLE TO ROUND STRUCTURES. CHECK DESIGN WIND LOAD CASE 2 BY APPLYING RISA 3D LOAD CASE FACTORS OF 0.75 TO FULL FACE DESIGN BASIC LOAD CASE AND TO TORSIONAL LOAD CASE CALCULATED WITHOUT THE 0.75 FACTOR OF FIGURE 27.3-8. CALCULATE FULL TORSIONAL MOMENT AND APPLY AS A RADIAL FORCE TO THE TOPS OF STUDS AT THE YURT PERIMETER.

SINCE YURT IS A ROUND STRUCTURE, BX = BY AND eX = eY.
CALCULATE USING B AND e VARIABLES.

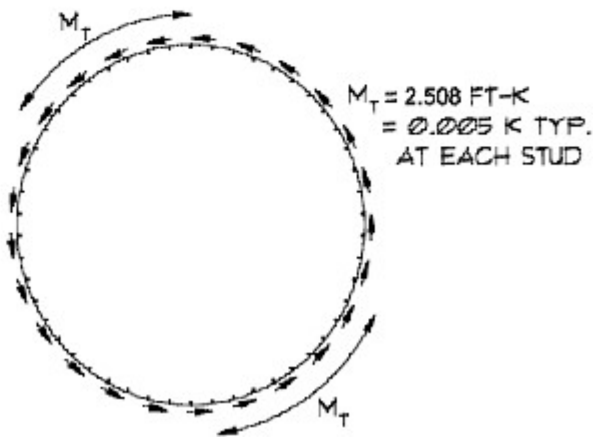
$B := 24 \cdot ft$ $\qquad e := 0.15 \cdot B$ $\qquad e = 3.6\ ft$

$M_T := P_w \cdot B \cdot e$ $\qquad M_T = 367\ \frac{ft \cdot lbf}{ft}$

$M_{Ttotal} := M_T \cdot (6.83 \cdot ft)$ $\qquad M_{Ttotal} = 2508\ ft \cdot lbf$

FIND EQUIVALENT LOAD AT EACH STUD:

$T_{stud} := \frac{M_{Ttotal}}{42 \cdot 12 \cdot ft}$ $\qquad T_{stud} = 0.005\ kip$



LOAD COMBINATION FACTORS IN RISA 3D FILE: FOR 40 PSF PROTOTYPE SNOW WIND q = 25 PSF, AND CALCULATION UNIT SNOW AND WIND LOADS = 10 PSF, FULL SNOW LOAD COMBINATION FACTOR = 40 PSF/10 PSF =4.0, WIND LOAD FACTORS = 25 PSF / 10 PSF = 2.5

CASES A & B FROM FIGURE 27.4-2 ARE CONSIDERED IN BASIC LOAD CASE INPUT. CASES 1 & 2 FROM FIGURE 27.4-8 ARE CONSIDERED IN LOAD FACTORS FOR TORSION LOAD CASES (1.0 FOR CASE 1, 0.75 FOR CASE 2)

LEWIS & VAN VLEET

WIND LOAD ON RAFTERS 24' YURT **S-8**

2018 IBC/ASCE 7-16

ASCE WIND CONDITION A, AT PERIMETER OF YURT

wind pressures, q_z = 10 psf

p_A= -6.6 psf p_B= -9.3 psf

p_C= -4.1 psf

WINDWARD SIDE wind load A= $[p_A$+(projected trib/actual trib)*$(p_B-p_A)]$*actual trib

rafter	adj. node 1	adj. node 2	proj. trib.	actual trib.	wind load (klf) cond. A
R22	-11.866	-11.866	0	1.789	-0.012
R21 R23	-11.467	-12	0.267	1.789	-0.013
R20 R24	-10.812	-11.866	0.527	1.789	-0.013
R19 R25	-9.915	-11.467	0.776	1.789	-0.014
R18 R26	-8.797	-10.812	1.008	1.789	-0.015
R17 R27	-7.482	-9.915	1.217	1.789	-0.015
R16 R28	-6	-8.797	1.399	1.789	-0.016
R15 R29	-4.384	-7.482	1.549	1.789	-0.016
R14 R30	-2.67	-6	1.665	1.789	-0.016
R13 R31	-0.897	-4.384	1.744	1.789	-0.017
R12 R32	0.897	-2.67	1.784	1.789	-0.017

LEWIS & VAN VLEET

2018 IBC/ASCE 7-16

ASCE WIND CONDITION A, AT PERIMETER OF YURT

LEEWARD SIDE wind load= Tmax = 2.1 kips, load case 1, OK

rafter	adj. node 1	adj. node 2	proj. trib.	actual trib.	wind load (klf)
R1	-11.866	-11.866	0	1.789	-0.007
R2 R42	-11.467	-12	0.2665	1.789	-0.009
R3 R41	-10.812	-11.866	0.527	1.789	-0.010
R4 R40	-9.915	-11.467	0.776	1.789	-0.011
R5 R39	-8.797	-10.812	1.008	1.789	-0.013
R6 R38	-7.482	-9.915	1.217	1.789	-0.014
R7 R37	-6	-8.797	1.399	1.789	-0.015
R8 R36	-4.384	-7.482	1.549	1.789	-0.015
R9 R35	-2.67	-6	1.665	1.789	-0.016
R10 R34	-0.897	-4.384	1.744	1.789	-0.016
R11 R33	0.897	-2.67	1.784	1.789	-0.017

LEWIS & VAN VLEET

WIND LOAD ON RAFTERS 24' YURT **S-10**

2018 IBC/ASCE 7-16

ASCE WIND CONDITION B, AT 6.25' UP RAFTER

wind pressures, q_z = 10 psf

p_A= -6.6 psf p_B= -9.3 psf

p_C= -4.2 psf $P_{25\ deg}$= -8.9 psf

WINDWARD SIDE wind load below= [p_A+(projected trib/actual trib)*(p_B-p_A)]*1.15 ft

wind load above= [$p_{25\ deg}$+(projected trib/actual trib)*(p_B-$p_{25\ deg}$)]*1.15 ft

rafter	adj. node 1	adj. node 2	proj. trib.	actual trib.	wind load (klf) below	wind load (klf) above
R22	-11.866	-11.866	0	1.789	-0.008	-0.010
R21 R23	-11.467	-12	0.267	1.789	-0.008	-0.010
R20 R24	-10.812	-11.866	0.527	1.789	-0.009	-0.010
R19 R25	-9.915	-11.467	0.776	1.789	-0.009	-0.010
R18 R26	-8.797	-10.812	1.008	1.789	-0.009	-0.010
R17 R27	-7.482	-9.915	1.217	1.789	-0.010	-0.011
R16 R28	-6	-8.797	1.399	1.789	-0.010	-0.011
R15 R29	-4.384	-7.482	1.549	1.789	-0.010	-0.011
R14 R30	-2.67	-6	1.665	1.789	-0.010	-0.011
R13 R31	-0.897	-4.384	1.744	1.789	-0.011	-0.011
R12 R32	0.897	-2.67	1.784	1.789	-0.011	-0.011

LEWIS & VAN VLEET

WIND LOAD ON STUDS 24' YURT **S-11**

2018 IBC/ASCE 7-16

calc. the projected Z axis tributary width

wind pressures, q_z = 10 psf

$p_{windward}$= 2.56 psf

$p_{leeward}$= 1.69 psf

node 1	node 2	projected tib.	windward studs	windward load (klf)	leeward studs	leeward load (klf)
1.789	-1.789	1.789	ST22 ST65	0.0046	ST1 ST44	0.0030
3.537	0	1.7685	ST21 ST64 ST23 ST66	0.0045	ST2 ST45 ST42 ST85	0.0030
5.207	1.789	1.709	ST20 ST63 ST24 ST67	0.0044	ST3 ST46 ST41 ST84	0.0029
6.76	3.537	1.6115	ST19 ST62 ST25 ST68	0.0041	ST4 ST47 ST40 ST83	0.0027
8.162	5.207	1.4775	ST18 ST61 ST26 ST69	0.0038	ST5 ST48 ST39 ST82	0.0025
9.382	6.76	1.311	ST17 ST60 ST27 ST70	0.0034	ST6 ST49 ST38 ST81	0.0022
10.392	8.162	1.115	ST16 ST59 ST28 ST71	0.0029	ST7 ST50 ST37 ST80	0.0019
11.17	9.382	0.894	ST15 ST58 ST29 ST72	0.0023	ST8 ST51 ST36 ST79	0.0015
11.699	10.392	0.6535	ST14 ST57 ST30 ST73	0.0017	ST9 ST52 ST35 ST78	0.0011
11.966	11.17	0.398	ST13 ST56 ST31 ST74	0.0010	ST10 ST53 ST34 ST77	0.0007

LEWIS & VAN VLEET

WIND LOAD ON STUDS 30' YURT

2018 IBC/ASCE 7-16

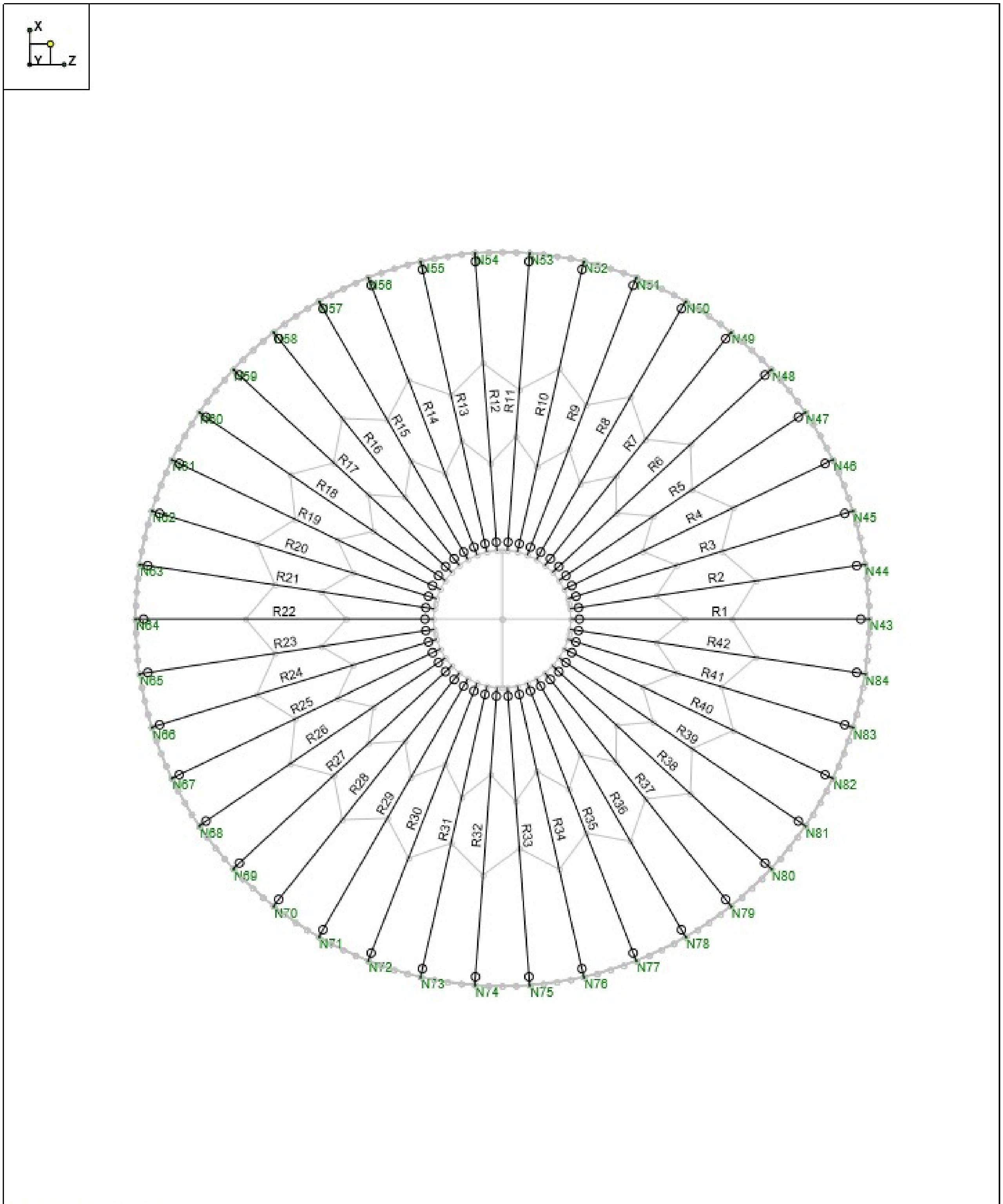
calc. the projected Z axis tributary width

wind pressures, q_z = 10 psf

$p_{windward}$= 2.56 psf

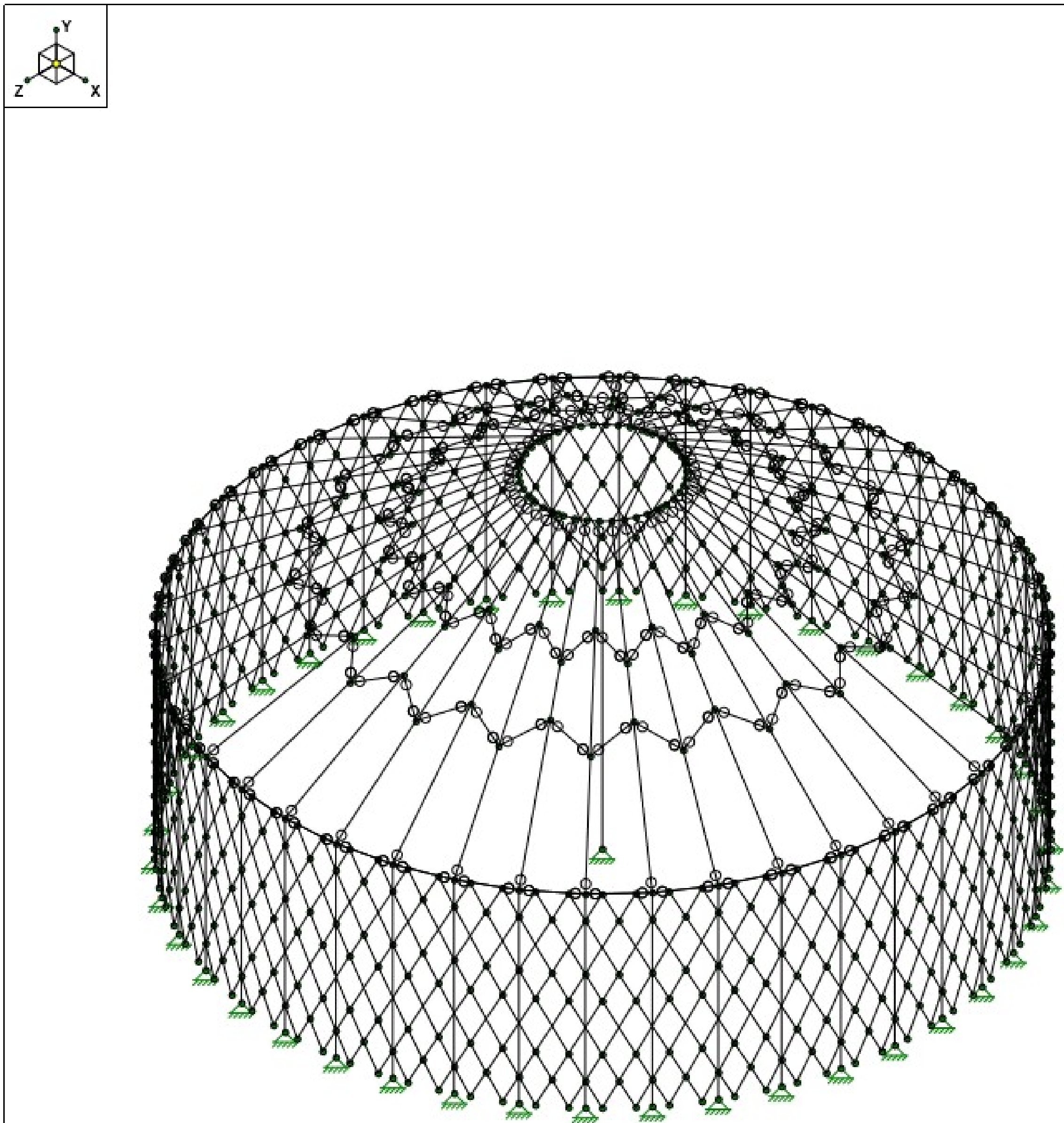
$p_{leeward}$= 1.69 psf

node 1	node 2	projected tib.	windward studs	windward load (klf)	leeward studs	leeward load (klf)
11.966	11.699	0.1335	ST12 ST55 ST32 ST75	0.0003	ST11 ST54 ST33 ST76	0.0002



Envelope Only Solution

Lewis & Van Vleet , Inc.	24' YURT - ASCE 7-16 - 90 psf - Ctr. Post	SK - 2
GJL		Mar 21, 2020 at 12:26 PM
		24' yurt - ASCE 7-16- 90 psf - Ctr ...



Envelope Only Solution

Lewis & Van Vleet , Inc.	24' YURT - ASCE 7-16 - 90 psf - Ctr. Post	SK - 1
GJL		Mar 21, 2020 at 12:25 PM
		24' yurt - ASCE 7-16- 90 psf - Ctr ...

RESULTS:

LOAD CASES CHECKED: D=DEAD LOAD, S=SNOW LOAD, W=WIND LOAD

1) D+S
2) .6D+W cases A, 1
3) .6D+W cases A,2
4) .6D+W cases B,1
5) .6D+W cases B,2
6) .6D+W cases note 7,1
7) .6D+W cases note 7,2
8) D+.75S+.75W cases A,1
9) D+.75S+.75W cases A,2
10) D+.75S+.75W cases B,1
11) D+.75S+.75W cases B,2
12) D+.75S+.75W cases note 7,1
13) D+.75S+.75W cases note 7,2

Rafter: unity check = 0.862 -*OK,* load case 1, see page 315 full RISA output

Stud: unity check = .179 -*OK*, load case 1, see page 314 full RISA output

Ring: unity check = 0.821 bending and axial, 1.048 shear, load case 1, see page 313, 314 of RISA output -- Note: unity shear check at members 11 and 32 is 1.069, but those members are at centers of support angle brackets -- OK

Cable: Tall = 4.2 kips / 2.2 = 1.91 kips
Tmax = .908+ 0.385 = 1.293 kips -*OK* (combined tension from blocking and cable - pgs. 311 and 65 of RISA output)

Center Post: $P := 16.3 \cdot kip$

$klu := 9.3 \cdot ft$

allowable axial load=51.4 kips, HSS 4x4x3/16 OK

Lattice: load case wind

$T_{max} := 51 \cdot \mathbf{lbf}$ member M614, load case 12 (pg. 176 of full RISA output)

$f_t := \dfrac{T_{max}}{\dfrac{7}{16} \cdot \mathbf{in} \cdot 1.5 \cdot \mathbf{in}}$ $f_t = 78\ \mathbf{psi}$

$F_t := 775 \cdot psi \cdot 1.6$ $F_t = 1240\ psi$

column stability factor $C_{max} := 63 \cdot \mathbf{lbf}$ member L1064, load case 12 - pg. 262 of RISA output

$F_{cstar} := 1.6 \cdot 1500 \cdot psi$

$K_{cE} := .3$ $c := .8$ $l_e := 19.27 \cdot \mathbf{in}$ $d := \dfrac{7}{16} \cdot \mathbf{in}$ $E' := 1600 \cdot ksi$

$\dfrac{l_e}{d} = 44.05$ *OK* $F_{cE} := \dfrac{K_{cE} \cdot E'}{\left(\dfrac{l_e}{d}\right)^2}$ $F_{cE} = 247.42\ psi$

$$C_p := \frac{1 + \left(\dfrac{F_{cE}}{F_{cstar}}\right)}{2 \cdot c} - \sqrt{\left(\frac{1 + \dfrac{F_{cE}}{F_{cstar}}}{2 \cdot c}\right)^2 - \left(\frac{\dfrac{F_{cE}}{F_{cstar}}}{c}\right)} \qquad C_p = 0.1$$

$C_{allowable} := C_p \cdot \dfrac{7}{16} \cdot \mathbf{in} \cdot 1.5 \cdot \mathbf{in} \cdot F_{cstar}$ $C_{allowable} = 159\ \mathbf{lbf}$ OK

CHECK UPLIFT:

exterior verticals

wind uplift worst case node N139 and N157: load case 10 - pg. 56 & 57 of full RISA output

$P_{uplift} := 194 \cdot \mathbf{lb}$

$netuplift := P_{uplift} \cdot 1.5$ $netuplift = 291\ \mathbf{lb}$

resisted by (4) screws to wood deck in withdrawal and (1) #8 screw in shear

withdrawal load on screws neglecting DL of Yurt:

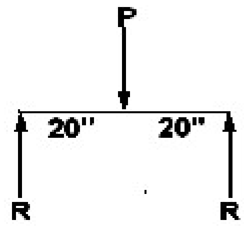
$$\frac{netuplift - 121 \cdot \mathbf{lb}}{4} = 43\ \mathbf{lb}$$

$T_{all} := 1.6 \cdot 1.5 \cdot \mathbf{in} \cdot 117 \cdot \dfrac{\mathbf{lb}}{\mathbf{in}}$ $T_{all} = 281\ \mathbf{lb}$

<u>(4) 1 1/2" #8 screws adequate</u>

DOOR HEADER:

40" door header



$\theta := 29.4 \cdot deg$ $\quad P := 338 \cdot lbf \cdot \sin(\theta) + 514 \cdot lbf \cdot \cos(\theta)$

Max. rafter axial load and shear, R1, Load Case 1 - pg. 82 of RISA output

$P = 614\ lbf$ $\quad span := 40 \cdot in$

$R := \frac{P}{2}$ $\quad R = 307\ lbf$

$M := P \cdot \frac{span}{4}$ $\quad M = 0.51\ ft \cdot kip$

$S_{req} := \frac{M}{1.15 \cdot 1.15 \cdot 1.2 \cdot 1500 \cdot psi}$ $\quad S_{req} = 2.58\ in^3$

$R := \frac{P}{2} = 307\ lbf$

$A_{req} := \frac{1.5 \cdot R}{1.15 \cdot 180 \cdot psi}$ $\quad A_{req} = 2.22\ in^2$

$A := 10.88 \cdot in^2 - 1.5 \cdot in \cdot 2.5 \cdot in = 7.13\ in^2$

use flat 2x8 select structural S=2.72 A=7.1

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	1.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	No
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	12
Eigensolution Convergence Tol. (1.E-)	3
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Standard Skyline
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): ASD
Adjust Stiffness?	Yes(Iterative)
RISAConnection Code	AISC 14th(360-10): ASD
Cold Formed Steel Code	AISI S100-16: ASD
Wood Code	AWC NDS-18: ASD
Wood Temperature	< 100F
Concrete Code	ACI 318-14
Masonry Code	TMS 402-16: ASD
Aluminum Code	AA ADM1-15: ASD - Building
Stainless Steel Code	AISC 14th(360-10): ASD
Adjust Stiffness?	Yes(Iterative)

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	PCA Load Contour
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

(Global) Model Settings, Continued

Seismic Code	UBC 1997
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	No
Ct X	.035
Ct Z	.035
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	8.5
R Z	8.5
Ca	.36
Cv	.54
Nv	1
Occupancy Category	4
Seismic Zone	3
Om Z	1
Om X	1
Rho Z	1
Rho X	1

Wood Material Properties

	Label	Type	Database	Species	Grade	Cm	Emod	Nu	Ther...	Dens[...
1	RAFTER	Solid ...	Visually Graded	Douglas Fir-Larch	Select Struc...		1	.3	.3	.035
2	RING	Solid ...	Visually Graded	Douglas Fir-Larch	No.1		1	.3	.3	.035
3	STUD	Solid ...	Visually Graded	Douglas Fir-Larch	Select Struc...		1	.3	.3	.035
4	BLOCKI...	Solid ...	Visually Graded	Douglas Fir-Larch	No.1		1	.3	.3	.035

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	TUBE	29000	11154	.3	.65	.49	46	1.2	58	1.1
2	HR_WOOD	1700		0	.65	.035	1	1.2	58	1.1
3	A36	29000	11154	.3	.65	.49	36	1.5	58	1.2

General Material Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1E5 F)	Density[k/ft^3]
1	GEN_STL	29000	11154	.3	.65	.49
2	GEN_WOOD	1700		0	.65	.035

Wood Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	RAFTER	2X6	Beam	Rectangula...	RAFTER	Typical	8.25	1.547	20.797	5.125
2	RING	4X5	Beam	Rectangula...	RING	Typical	15.75	16.078	26.578	33.76
3	POST	2X4	Beam	Rectangula...	STUD	Typical	5.25	.984	5.359	2.877
4	BLOCKING	2X4	Beam	Rectangula...	STUD	Typical	5.25	.984	5.359	2.877

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	5/16 CAB...	5/16 DIA...	Beam	None	A36	Typical	.077	.000468	.000468	.000936
2	1/8 CABLE	1/8 rod	Beam	None	A36	Typical	.012	1.2e-5	1.2e-5	2.4e-5
3	CENTER...	HSS4X4X3	Column	Tube	TUBE	Typical	2.58	6.21	6.21	10
4	POSTARM	HSS3X3X3	Column	Tube	TUBE	Typical	1.89	2.46	2.46	4.03
5	BRACKET	L4X4X4	Beam	Channel	A36	Typical	1.93	3	3	.044

General Section Sets

	Label	Shape	Type	Material	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CABLE	ARB_CABLE_...	Beam	GEN_STL	.028	.01	.01	1
2	LATH	ARB_LATH_1	Beam	GEN_WOOD	.219	.03	.03	1

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	12.33	2.25	0	
2	N2	.335	12.33	2.224869	0	
3	N3	.663	12.33	2.150039	0	
4	N4	.976	12.33	2.02718	0	
5	N5	1.267	12.33	1.859037	0	
6	N6	1.53	12.33	1.649367	0	
7	N7	1.759	12.33	1.402852	0	
8	N8	1.949	12.33	1.125	0	
9	N9	2.094	12.33	0.822017	0	
10	N10	2.194	12.33	0.500672	0	
11	N11	2.244	12.33	0.168143	0	
12	N12	2.244	12.33	-0.168143	0	
13	N13	2.194	12.33	-0.500672	0	
14	N14	2.094	12.33	-0.822017	0	
15	N15	1.949	12.33	-1.125	0	
16	N16	1.759	12.33	-1.402852	0	
17	N17	1.53	12.33	-1.649367	0	
18	N18	1.267	12.33	-1.859037	0	
19	N19	.976	12.33	-2.02718	0	
20	N20	.663	12.33	-2.150039	0	
21	N21	.335	12.33	-2.224869	0	
22	N22	0	12.33	-2.25	0	
23	N23	-.335	12.33	-2.224869	0	
24	N24	-.663	12.33	-2.150039	0	
25	N25	-.976	12.33	-2.02718	0	
26	N26	-1.267	12.33	-1.859037	0	
27	N27	-1.53	12.33	-1.649367	0	
28	N28	-1.759	12.33	-1.402852	0	
29	N29	-1.949	12.33	-1.125	0	
30	N30	-2.094	12.33	-0.822017	0	
31	N31	-2.194	12.33	-0.500672	0	
32	N32	-2.244	12.33	-0.168143	0	
33	N33	-2.244	12.33	0.168143	0	
34	N34	-2.194	12.33	0.500672	0	
35	N35	-2.094	12.33	0.822017	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
36	N36	-1.949	12.33	1.125	0	
37	N37	-1.759	12.33	1.402852	0	
38	N38	-1.53	12.33	1.649367	0	
39	N39	-1.267	12.33	1.859037	0	
40	N40	-.976	12.33	2.02718	0	
41	N41	-.663	12.33	2.150039	0	
42	N42	-.335	12.33	2.224869	0	
43	N43	0	7	12	0	
44	N44	1.789	7	11.86597	0	
45	N45	3.537	7	11.466874	0	
46	N46	5.207	7	10.811626	0	
47	N47	6.76	7	9.914865	0	
48	N48	8.162	7	8.796622	0	
49	N49	9.382	7	7.481878	0	
50	N50	10.392	7	6	0	
51	N51	11.17	7	4.384092	0	
52	N52	11.699	7	2.670251	0	
53	N53	11.966	7	0.896761	0	
54	N54	11.966	7	-0.896761	0	
55	N55	11.699	7	-2.670251	0	
56	N56	11.17	7	-4.384092	0	
57	N57	10.392	7	-6	0	
58	N58	9.382	7	-7.481878	0	
59	N59	8.162	7	-8.796622	0	
60	N60	6.76	7	-9.914865	0	
61	N61	5.207	7	-10.811626	0	
62	N62	3.537	7	-11.466874	0	
63	N63	1.789	7	-11.86597	0	
64	N64	0	7	-12	0	
65	N65	-1.789	7	-11.86597	0	
66	N66	-3.537	7	-11.466874	0	
67	N67	-5.207	7	-10.811626	0	
68	N68	-6.76	7	-9.914865	0	
69	N69	-8.162	7	-8.796622	0	
70	N70	-9.382	7	-7.481878	0	
71	N71	-10.392	7	-6	0	
72	N72	-11.17	7	-4.384092	0	
73	N73	-11.699	7	-2.670251	0	
74	N74	-11.966	7	-0.896761	0	
75	N75	-11.966	7	0.896761	0	
76	N76	-11.699	7	2.670251	0	
77	N77	-11.17	7	4.384092	0	
78	N78	-10.392	7	6	0	
79	N79	-9.382	7	7.481878	0	
80	N80	-8.162	7	8.796622	0	
81	N81	-6.76	7	9.914865	0	
82	N82	-5.207	7	10.811626	0	
83	N83	-3.537	7	11.466874	0	
84	N84	-1.789	7	11.86597	0	
85	N85	0	6.125	12	0	
86	N86	1.789	6.125	11.86597	0	
87	N87	3.537	6.125	11.466874	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
88	N88	5.207	6.125	10.811626	0	
89	N89	6.76	6.125	9.914865	0	
90	N90	8.162	6.125	8.796622	0	
91	N91	9.382	6.125	7.481878	0	
92	N92	10.392	6.125	6	0	
93	N93	11.17	6.125	4.384092	0	
94	N94	11.699	6.125	2.670251	0	
95	N95	11.966	6.125	0.896761	0	
96	N96	11.966	6.125	-0.896761	0	
97	N97	11.699	6.125	-2.670251	0	
98	N98	11.17	6.125	-4.384092	0	
99	N99	10.392	6.125	-6	0	
100	N100	9.382	6.125	-7.481878	0	
101	N101	8.162	6.125	-8.796622	0	
102	N102	6.76	6.125	-9.914865	0	
103	N103	5.207	6.125	-10.811626	0	
104	N104	3.537	6.125	-11.466874	0	
105	N105	1.789	6.125	-11.86597	0	
106	N106	0	6.125	-12	0	
107	N107	-1.789	6.125	-11.86597	0	
108	N108	-3.537	6.125	-11.466874	0	
109	N109	-5.207	6.125	-10.811626	0	
110	N110	-6.76	6.125	-9.914865	0	
111	N111	-8.162	6.125	-8.796622	0	
112	N112	-9.382	6.125	-7.481878	0	
113	N113	-10.392	6.125	-6	0	
114	N114	-11.17	6.125	-4.384092	0	
115	N115	-11.699	6.125	-2.670251	0	
116	N116	-11.966	6.125	-0.896761	0	
117	N117	-11.966	6.125	0.896761	0	
118	N118	-11.699	6.125	2.670251	0	
119	N119	-11.17	6.125	4.384092	0	
120	N120	-10.392	6.125	6	0	
121	N121	-9.382	6.125	7.481878	0	
122	N122	-8.162	6.125	8.796622	0	
123	N123	-6.76	6.125	9.914865	0	
124	N124	-5.207	6.125	10.811626	0	
125	N125	-3.537	6.125	11.466874	0	
126	N126	-1.789	6.125	11.86597	0	
127	N127	0	0	12	0	
128	N128	1.789	0	11.86597	0	
129	N129	3.537	0	11.466874	0	
130	N130	5.207	0	10.811626	0	
131	N131	6.76	0	9.914865	0	
132	N132	8.162	0	8.796622	0	
133	N133	9.382	0	7.481878	0	
134	N134	10.392	0	6	0	
135	N135	11.17	0	4.384092	0	
136	N136	11.699	0	2.670251	0	
137	N137	11.966	0	0.896761	0	
138	N138	11.966	0	-0.896761	0	
139	N139	11.699	0	-2.670251	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
140	N140	11.17	0	-4.384092	0	
141	N141	10.392	0	-6	0	
142	N142	9.382	0	-7.481878	0	
143	N143	8.162	0	-8.796622	0	
144	N144	6.76	0	-9.914865	0	
145	N145	5.207	0	-10.811626	0	
146	N146	3.537	0	-11.466874	0	
147	N147	1.789	0	-11.86597	0	
148	N148	0	0	-12	0	
149	N149	-1.789	0	-11.86597	0	
150	N150	-3.537	0	-11.466874	0	
151	N151	-5.207	0	-10.811626	0	
152	N152	-6.76	0	-9.914865	0	
153	N153	-8.162	0	-8.796622	0	
154	N154	-9.382	0	-7.481878	0	
155	N155	-10.392	0	-6	0	
156	N156	-11.17	0	-4.384092	0	
157	N157	-11.699	0	-2.670251	0	
158	N158	-11.966	0	-0.896761	0	
159	N159	-11.966	0	0.896761	0	
160	N160	-11.699	0	2.670251	0	
161	N161	-11.17	0	4.384092	0	
162	N162	-10.392	0	6	0	
163	N163	-9.382	0	7.481878	0	
164	N164	-8.162	0	8.796622	0	
165	N165	-6.76	0	9.914865	0	
166	N166	-5.207	0	10.811626	0	
167	N167	-3.537	0	11.466874	0	
168	N168	-1.789	0	11.86597	0	
169	N169	0	0	0	0	
170	N254	0	4.375	12	0	
171	N255	1.789	4.375	11.86597	0	
172	N256	3.537	4.375	11.466874	0	
173	N257	5.207	4.375	10.811626	0	
174	N258	6.76	4.375	9.914865	0	
175	N259	8.162	4.375	8.796622	0	
176	N260	9.382	4.375	7.481878	0	
177	N261	10.392	4.375	6	0	
178	N262	11.17	4.375	4.384092	0	
179	N263	11.699	4.375	2.670251	0	
180	N264	11.966	4.375	0.896761	0	
181	N265	11.966	4.375	-0.896761	0	
182	N266	11.699	4.375	-2.670251	0	
183	N267	11.17	4.375	-4.384092	0	
184	N268	10.392	4.375	-6	0	
185	N269	9.382	4.375	-7.481878	0	
186	N270	8.162	4.375	-8.796622	0	
187	N271	6.76	4.375	-9.914865	0	
188	N272	5.207	4.375	-10.811626	0	
189	N273	3.537	4.375	-11.466874	0	
190	N274	1.789	4.375	-11.86597	0	
191	N275	0	4.375	-12	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
192	N276	-1.789	4.375	-11.86597	0	
193	N277	-3.537	4.375	-11.466874	0	
194	N278	-5.207	4.375	-10.811626	0	
195	N279	-6.76	4.375	-9.914865	0	
196	N280	-8.162	4.375	-8.796622	0	
197	N281	-9.382	4.375	-7.481878	0	
198	N282	-10.392	4.375	-6	0	
199	N283	-11.17	4.375	-4.384092	0	
200	N284	-11.699	4.375	-2.670251	0	
201	N285	-11.966	4.375	-0.896761	0	
202	N286	-11.966	4.375	0.896761	0	
203	N287	-11.699	4.375	2.670251	0	
204	N288	-11.17	4.375	4.384092	0	
205	N289	-10.392	4.375	6	0	
206	N290	-9.382	4.375	7.481878	0	
207	N291	-8.162	4.375	8.796622	0	
208	N292	-6.76	4.375	9.914865	0	
209	N293	-5.207	4.375	10.811626	0	
210	N294	-3.537	4.375	11.466874	0	
211	N295	-1.789	4.375	11.86597	0	
212	N338	0	.875	12	0	
213	N339	1.789	.875	11.86597	0	
214	N340	3.537	.875	11.466874	0	
215	N341	5.207	.875	10.811626	0	
216	N342	6.76	.875	9.914865	0	
217	N343	8.162	.875	8.796622	0	
218	N344	9.382	.875	7.481878	0	
219	N345	10.392	.875	6	0	
220	N346	11.17	.875	4.384092	0	
221	N347	11.699	.875	2.670251	0	
222	N348	11.966	.875	0.896761	0	
223	N349	11.966	.875	-0.896761	0	
224	N350	11.699	.875	-2.670251	0	
225	N351	11.17	.875	-4.384092	0	
226	N352	10.392	.875	-6	0	
227	N353	9.382	.875	-7.481878	0	
228	N354	8.162	.875	-8.796622	0	
229	N355	6.76	.875	-9.914865	0	
230	N356	5.207	.875	-10.811626	0	
231	N357	3.537	.875	-11.466874	0	
232	N358	1.789	.875	-11.86597	0	
233	N359	0	.875	-12	0	
234	N360	-1.789	.875	-11.86597	0	
235	N361	-3.537	.875	-11.466874	0	
236	N362	-5.207	.875	-10.811626	0	
237	N363	-6.76	.875	-9.914865	0	
238	N364	-8.162	.875	-8.796622	0	
239	N365	-9.382	.875	-7.481878	0	
240	N366	-10.392	.875	-6	0	
241	N367	-11.17	.875	-4.384092	0	
242	N368	-11.699	.875	-2.670251	0	
243	N369	-11.966	.875	-0.896761	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
244	N370	-11.966	.875	0.896761	0	
245	N371	-11.699	.875	2.670251	0	
246	N372	-11.17	.875	4.384092	0	
247	N373	-10.392	.875	6	0	
248	N374	-9.382	.875	7.481878	0	
249	N375	-8.162	.875	8.796622	0	
250	N376	-6.76	.875	9.914865	0	
251	N377	-5.207	.875	10.811626	0	
252	N378	-3.537	.875	11.466874	0	
253	N379	-1.789	.875	11.86597	0	
254	N380	0.448724	7	11.991607	0	
255	N381	1.343603	7	11.924543	0	
256	N382	2.230969	7	11.790792	0	
257	N383	3.105857	7	11.591102	0	
258	N384	3.963377	7	11.32659	0	
259	N385	4.798732	7	10.998735	0	
260	N386	5.60725	7	10.609371	0	
261	N387	6.38441	7	10.160674	0	
262	N388	7.125866	7	9.655156	0	
263	N389	7.827472	7	9.095641	0	
264	N390	8.485303	7	8.48526	0	
265	N391	9.09568	7	7.827426	0	
266	N392	9.655191	7	7.125818	0	
267	N393	10.160706	7	6.38436	0	
268	N394	10.609399	7	5.607197	0	
269	N395	10.998759	7	4.798677	0	
270	N396	11.32661	7	3.963321	0	
271	N397	11.591118	7	3.1058	0	
272	N398	11.790803	7	2.23091	0	
273	N399	11.92455	7	1.343544	0	
274	N400	11.99161	7	0.448664	0	
275	N401	11.991607	7	-0.448724	0	
276	N402	11.924543	7	-1.343603	0	
277	N403	11.790792	7	-2.230969	0	
278	N404	11.591102	7	-3.105857	0	
279	N405	11.32659	7	-3.963377	0	
280	N406	10.998735	7	-4.798732	0	
281	N407	10.609371	7	-5.60725	0	
282	N408	10.160674	7	-6.38441	0	
283	N409	9.655156	7	-7.125866	0	
284	N410	9.095641	7	-7.827472	0	
285	N411	8.48526	7	-8.485303	0	
286	N412	7.827426	7	-9.09568	0	
287	N413	7.125818	7	-9.655191	0	
288	N414	6.38436	7	-10.160706	0	
289	N415	5.607197	7	-10.609399	0	
290	N416	4.798677	7	-10.998759	0	
291	N417	3.963321	7	-11.32661	0	
292	N418	3.1058	7	-11.591118	0	
293	N419	2.23091	7	-11.790803	0	
294	N420	1.343544	7	-11.92455	0	
295	N421	0.448664	7	-11.99161	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
296	N422	-0.448724	7	-11.991607	0	
297	N423	-1.343603	7	-11.924543	0	
298	N424	-2.230969	7	-11.790792	0	
299	N425	-3.105857	7	-11.591102	0	
300	N426	-3.963377	7	-11.32659	0	
301	N427	-4.798732	7	-10.998735	0	
302	N428	-5.60725	7	-10.609371	0	
303	N429	-6.38441	7	-10.160674	0	
304	N430	-7.125866	7	-9.655156	0	
305	N431	-7.827472	7	-9.095641	0	
306	N432	-8.485302	7	-8.48526	0	
307	N433	-9.09568	7	-7.827426	0	
308	N434	-9.655191	7	-7.125818	0	
309	N435	-10.160706	7	-6.38436	0	
310	N436	-10.609399	7	-5.607197	0	
311	N437	-10.998759	7	-4.798677	0	
312	N438	-11.32661	7	-3.963321	0	
313	N439	-11.591118	7	-3.1058	0	
314	N440	-11.790803	7	-2.23091	0	
315	N441	-11.92455	7	-1.343544	0	
316	N442	-11.99161	7	-0.448664	0	
317	N443	-11.991607	7	0.448724	0	
318	N444	-11.924543	7	1.343603	0	
319	N445	-11.790792	7	2.230969	0	
320	N446	-11.591102	7	3.105857	0	
321	N447	-11.32659	7	3.963377	0	
322	N448	-10.998735	7	4.798732	0	
323	N449	-10.609371	7	5.60725	0	
324	N450	-10.160675	7	6.38441	0	
325	N451	-9.655156	7	7.125866	0	
326	N452	-9.095641	7	7.827472	0	
327	N453	-8.48526	7	8.485302	0	
328	N454	-7.827426	7	9.09568	0	
329	N455	-7.125818	7	9.655191	0	
330	N456	-6.38436	7	10.160706	0	
331	N457	-5.607197	7	10.609399	0	
332	N458	-4.798677	7	10.998759	0	
333	N459	-3.963321	7	11.32661	0	
334	N460	-3.1058	7	11.591118	0	
335	N461	-2.23091	7	11.790803	0	
336	N462	-1.343544	7	11.92455	0	
337	N463	-0.448665	7	11.99161	0	
338	N464	0.896758	6.125	11.966446	0	
339	N465	2.670248	6.125	11.699136	0	
340	N466	4.38409	6.125	11.170486	0	
341	N467	5.999997	6.125	10.392306	0	
342	N468	7.481875	6.125	9.38198	0	
343	N469	8.79662	6.125	8.162075	0	
344	N470	9.914864	6.125	6.759843	0	
345	N471	10.811625	6.125	5.206608	0	
346	N472	11.466873	6.125	3.537065	0	
347	N473	11.865969	6.125	1.78851	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
348	N474	12	6.125	0	0	
349	N475	11.86597	6.125	-1.788504	0	
350	N476	11.466875	6.125	-3.537059	0	
351	N477	10.811628	6.125	-5.206602	0	
352	N478	9.914867	6.125	-6.759838	0	
353	N479	8.796625	6.125	-8.162071	0	
354	N480	7.48188	6.125	-9.381976	0	
355	N481	6.000003	6.125	-10.392303	0	
356	N482	4.384095	6.125	-11.170484	0	
357	N483	2.670254	6.125	-11.699134	0	
358	N484	0.896764	6.125	-11.966445	0	
359	N485	-0.896758	6.125	-11.966446	0	
360	N486	-2.670248	6.125	-11.699136	0	
361	N487	-4.384089	6.125	-11.170486	0	
362	N488	-5.999997	6.125	-10.392306	0	
363	N489	-7.481875	6.125	-9.38198	0	
364	N490	-8.79662	6.125	-8.162075	0	
365	N491	-9.914864	6.125	-6.759843	0	
366	N492	-10.811625	6.125	-5.206608	0	
367	N493	-11.466873	6.125	-3.537065	0	
368	N494	-11.865969	6.125	-1.78851	0	
369	N495	-12	6.125	0	0	
370	N496	-11.86597	6.125	1.788504	0	
371	N497	-11.466875	6.125	3.537059	0	
372	N498	-10.811628	6.125	5.206602	0	
373	N499	-9.914867	6.125	6.759838	0	
374	N500	-8.796625	6.125	8.162071	0	
375	N501	-7.48188	6.125	9.381976	0	
376	N502	-6.000003	6.125	10.392303	0	
377	N503	-4.384095	6.125	11.170484	0	
378	N504	-2.670254	6.125	11.699134	0	
379	N505	-0.896764	6.125	11.966445	0	
380	N506	0.896821	4.375	11.966441	0	
381	N507	2.67031	4.375	11.699122	0	
382	N508	4.384148	4.375	11.170463	0	
383	N509	6.000052	4.375	10.392275	0	
384	N510	7.481924	4.375	9.38194	0	
385	N511	8.796663	4.375	8.162029	0	
386	N512	9.914899	4.375	6.759791	0	
387	N513	10.811652	4.375	5.206551	0	
388	N514	11.466891	4.375	3.537005	0	
389	N515	11.865979	4.375	1.788448	0	
390	N516	12	4.375	-6e-5	0	
391	N517	11.865961	4.375	-1.788566	0	
392	N518	11.466856	4.375	-3.537119	0	
393	N519	10.8116	4.375	-5.206659	0	
394	N520	9.914832	4.375	-6.75989	0	
395	N521	8.796582	4.375	-8.162117	0	
396	N522	7.481831	4.375	-9.382015	0	
397	N523	5.999948	4.375	-10.392335	0	
398	N524	4.384037	4.375	-11.170507	0	
399	N525	2.670193	4.375	-11.699148	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
400	N526	0.896701	4.375	-11.96645	0	
401	N527	-0.896821	4.375	-11.966441	0	
402	N528	-2.67031	4.375	-11.699122	0	
403	N529	-4.384148	4.375	-11.170463	0	
404	N530	-6.000052	4.375	-10.392275	0	
405	N531	-7.481924	4.375	-9.381941	0	
406	N532	-8.796663	4.375	-8.162029	0	
407	N533	-9.914899	4.375	-6.759791	0	
408	N534	-10.811652	4.375	-5.206551	0	
409	N535	-11.466891	4.375	-3.537005	0	
410	N536	-11.865979	4.375	-1.788448	0	
411	N537	-12	4.375	6e-5	0	
412	N538	-11.865961	4.375	1.788566	0	
413	N539	-11.466856	4.375	3.537119	0	
414	N540	-10.8116	4.375	5.206659	0	
415	N541	-9.914832	4.375	6.75989	0	
416	N542	-8.796582	4.375	8.162117	0	
417	N543	-7.481831	4.375	9.382015	0	
418	N544	-5.999948	4.375	10.392335	0	
419	N545	-4.384037	4.375	11.170507	0	
420	N546	-2.670193	4.375	11.699148	0	
421	N547	-0.896702	4.375	11.96645	0	
422	N548	0.448703	3.5	11.991608	0	
423	N549	1.343583	3.5	11.924546	0	
424	N550	2.230948	3.5	11.790796	0	
425	N551	3.105837	3.5	11.591108	0	
426	N552	3.963357	3.5	11.326597	0	
427	N553	4.798713	3.5	10.998743	0	
428	N554	5.607231	3.5	10.609381	0	
429	N555	6.384393	3.5	10.160686	0	
430	N556	7.125849	3.5	9.655168	0	
431	N557	7.827456	3.5	9.095655	0	
432	N558	8.485288	3.5	8.485275	0	
433	N559	9.095667	3.5	7.827442	0	
434	N560	9.655179	3.5	7.125835	0	
435	N561	10.160695	3.5	6.384377	0	
436	N562	10.609389	3.5	5.607216	0	
437	N563	10.998751	3.5	4.798696	0	
438	N564	11.326603	3.5	3.96334	0	
439	N565	11.591112	3.5	3.10582	0	
440	N566	11.790799	3.5	2.23093	0	
441	N567	11.924548	3.5	1.343565	0	
442	N568	11.991609	3.5	0.448685	0	
443	N569	11.991608	3.5	-0.448703	0	
444	N570	11.924546	3.5	-1.343583	0	
445	N571	11.790796	3.5	-2.230948	0	
446	N572	11.591108	3.5	-3.105837	0	
447	N573	11.326597	3.5	-3.963357	0	
448	N574	10.998743	3.5	-4.798712	0	
449	N575	10.609381	3.5	-5.607231	0	
450	N576	10.160686	3.5	-6.384392	0	
451	N577	9.655168	3.5	-7.125849	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
452	N578	9.095655	3.5	-7.827456	0	
453	N579	8.485275	3.5	-8.485288	0	
454	N580	7.827442	3.5	-9.095667	0	
455	N581	7.125835	3.5	-9.655179	0	
456	N582	6.384377	3.5	-10.160695	0	
457	N583	5.607216	3.5	-10.609389	0	
458	N584	4.798696	3.5	-10.998751	0	
459	N585	3.96334	3.5	-11.326603	0	
460	N586	3.10582	3.5	-11.591112	0	
461	N587	2.230931	3.5	-11.790799	0	
462	N588	1.343565	3.5	-11.924548	0	
463	N589	0.448685	3.5	-11.991609	0	
464	N590	-0.448703	3.5	-11.991608	0	
465	N591	-1.343583	3.5	-11.924546	0	
466	N592	-2.230948	3.5	-11.790796	0	
467	N593	-3.105837	3.5	-11.591108	0	
468	N594	-3.963357	3.5	-11.326597	0	
469	N595	-4.798712	3.5	-10.998744	0	
470	N596	-5.607231	3.5	-10.609381	0	
471	N597	-6.384392	3.5	-10.160686	0	
472	N598	-7.125849	3.5	-9.655168	0	
473	N599	-7.827456	3.5	-9.095655	0	
474	N600	-8.485288	3.5	-8.485275	0	
475	N601	-9.095666	3.5	-7.827442	0	
476	N602	-9.655179	3.5	-7.125835	0	
477	N603	-10.160695	3.5	-6.384377	0	
478	N604	-10.609389	3.5	-5.607216	0	
479	N605	-10.998751	3.5	-4.798696	0	
480	N606	-11.326603	3.5	-3.96334	0	
481	N607	-11.591112	3.5	-3.10582	0	
482	N608	-11.790799	3.5	-2.230931	0	
483	N609	-11.924548	3.5	-1.343565	0	
484	N610	-11.991609	3.5	-0.448685	0	
485	N611	-11.991608	3.5	0.448703	0	
486	N612	-11.924546	3.5	1.343583	0	
487	N613	-11.790796	3.5	2.230948	0	
488	N614	-11.591108	3.5	3.105837	0	
489	N615	-11.326597	3.5	3.963357	0	
490	N616	-10.998744	3.5	4.798712	0	
491	N617	-10.609381	3.5	5.607231	0	
492	N618	-10.160686	3.5	6.384392	0	
493	N619	-9.655168	3.5	7.125849	0	
494	N620	-9.095655	3.5	7.827456	0	
495	N621	-8.485275	3.5	8.485288	0	
496	N622	-7.827442	3.5	9.095666	0	
497	N623	-7.125835	3.5	9.655179	0	
498	N624	-6.384377	3.5	10.160695	0	
499	N625	-5.607216	3.5	10.609389	0	
500	N626	-4.798696	3.5	10.998751	0	
501	N627	-3.96334	3.5	11.326603	0	
502	N628	-3.10582	3.5	11.591112	0	
503	N629	-2.230931	3.5	11.790799	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
504	N630	-1.343565	3.5	11.924548	0	
505	N631	-0.448685	3.5	11.991609	0	
506	N632	0.448724	1.75	11.991607	0	
507	N633	1.343603	1.75	11.924543	0	
508	N634	2.230969	1.75	11.790792	0	
509	N635	3.105857	1.75	11.591102	0	
510	N636	3.963377	1.75	11.32659	0	
511	N637	4.798732	1.75	10.998735	0	
512	N638	5.60725	1.75	10.609371	0	
513	N639	6.38441	1.75	10.160674	0	
514	N640	7.125866	1.75	9.655156	0	
515	N641	7.827472	1.75	9.095641	0	
516	N642	8.485303	1.75	8.48526	0	
517	N643	9.09568	1.75	7.827426	0	
518	N644	9.655191	1.75	7.125818	0	
519	N645	10.160706	1.75	6.38436	0	
520	N646	10.609399	1.75	5.607197	0	
521	N647	10.998759	1.75	4.798677	0	
522	N648	11.32661	1.75	3.963321	0	
523	N649	11.591118	1.75	3.1058	0	
524	N650	11.790803	1.75	2.23091	0	
525	N651	11.92455	1.75	1.343544	0	
526	N652	11.99161	1.75	0.448664	0	
527	N653	11.991607	1.75	-0.448724	0	
528	N654	11.924543	1.75	-1.343603	0	
529	N655	11.790792	1.75	-2.230969	0	
530	N656	11.591102	1.75	-3.105857	0	
531	N657	11.32659	1.75	-3.963377	0	
532	N658	10.998735	1.75	-4.798732	0	
533	N659	10.609371	1.75	-5.60725	0	
534	N660	10.160674	1.75	-6.38441	0	
535	N661	9.655156	1.75	-7.125866	0	
536	N662	9.095641	1.75	-7.827472	0	
537	N663	8.48526	1.75	-8.485303	0	
538	N664	7.827426	1.75	-9.09568	0	
539	N665	7.125818	1.75	-9.655191	0	
540	N666	6.38436	1.75	-10.160706	0	
541	N667	5.607197	1.75	-10.609399	0	
542	N668	4.798677	1.75	-10.998759	0	
543	N669	3.963321	1.75	-11.32661	0	
544	N670	3.1058	1.75	-11.591118	0	
545	N671	2.23091	1.75	-11.790803	0	
546	N672	1.343544	1.75	-11.92455	0	
547	N673	0.448664	1.75	-11.99161	0	
548	N674	-0.448724	1.75	-11.991607	0	
549	N675	-1.343603	1.75	-11.924543	0	
550	N676	-2.230969	1.75	-11.790792	0	
551	N677	-3.105857	1.75	-11.591102	0	
552	N678	-3.963377	1.75	-11.32659	0	
553	N679	-4.798732	1.75	-10.998735	0	
554	N680	-5.60725	1.75	-10.609371	0	
555	N681	-6.38441	1.75	-10.160674	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
556	N682	-7.125866	1.75	-9.655156	0	
557	N683	-7.827472	1.75	-9.095641	0	
558	N684	-8.485302	1.75	-8.48526	0	
559	N685	-9.09568	1.75	-7.827426	0	
560	N686	-9.655191	1.75	-7.125818	0	
561	N687	-10.160706	1.75	-6.38436	0	
562	N688	-10.609399	1.75	-5.607197	0	
563	N689	-10.998759	1.75	-4.798677	0	
564	N690	-11.32661	1.75	-3.963321	0	
565	N691	-11.591118	1.75	-3.1058	0	
566	N692	-11.790803	1.75	-2.23091	0	
567	N693	-11.92455	1.75	-1.343544	0	
568	N694	-11.99161	1.75	-0.448664	0	
569	N695	-11.991607	1.75	0.448724	0	
570	N696	-11.924543	1.75	1.343603	0	
571	N697	-11.790792	1.75	2.230969	0	
572	N698	-11.591102	1.75	3.105857	0	
573	N699	-11.32659	1.75	3.963377	0	
574	N700	-10.998735	1.75	4.798732	0	
575	N701	-10.609371	1.75	5.60725	0	
576	N702	-10.160675	1.75	6.38441	0	
577	N703	-9.655156	1.75	7.125866	0	
578	N704	-9.095641	1.75	7.827472	0	
579	N705	-8.48526	1.75	8.485302	0	
580	N706	-7.827426	1.75	9.09568	0	
581	N707	-7.125818	1.75	9.655191	0	
582	N708	-6.38436	1.75	10.160706	0	
583	N709	-5.607197	1.75	10.609399	0	
584	N710	-4.798677	1.75	10.998759	0	
585	N711	-3.963321	1.75	11.32661	0	
586	N712	-3.1058	1.75	11.591118	0	
587	N713	-2.23091	1.75	11.790803	0	
588	N714	-1.343544	1.75	11.92455	0	
589	N715	-0.448665	1.75	11.99161	0	
590	N716	0.896758	.875	11.966446	0	
591	N717	2.670248	.875	11.699136	0	
592	N718	4.38409	.875	11.170486	0	
593	N719	5.999997	.875	10.392306	0	
594	N720	7.481875	.875	9.38198	0	
595	N721	8.79662	.875	8.162075	0	
596	N722	9.914864	.875	6.759843	0	
597	N723	10.811625	.875	5.206608	0	
598	N724	11.466873	.875	3.537065	0	
599	N725	11.865969	.875	1.78851	0	
600	N726	12	.875	0	0	
601	N727	11.86597	.875	-1.788504	0	
602	N728	11.466875	.875	-3.537059	0	
603	N729	10.811628	.875	-5.206602	0	
604	N730	9.914867	.875	-6.759838	0	
605	N731	8.796625	.875	-8.162071	0	
606	N732	7.48188	.875	-9.381976	0	
607	N733	6.000003	.875	-10.392303	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
608	N734	4.384095	.875	-11.170484	0	
609	N735	2.670254	.875	-11.699134	0	
610	N736	0.896764	.875	-11.966445	0	
611	N737	-0.896758	.875	-11.966446	0	
612	N738	-2.670248	.875	-11.699136	0	
613	N739	-4.384089	.875	-11.170486	0	
614	N740	-5.999997	.875	-10.392306	0	
615	N741	-7.481875	.875	-9.38198	0	
616	N742	-8.79662	.875	-8.162075	0	
617	N743	-9.914864	.875	-6.759843	0	
618	N744	-10.811625	.875	-5.206608	0	
619	N745	-11.466873	.875	-3.537065	0	
620	N746	-11.865969	.875	-1.78851	0	
621	N747	-12	.875	0	0	
622	N748	-11.86597	.875	1.788504	0	
623	N749	-11.466875	.875	3.537059	0	
624	N750	-10.811628	.875	5.206602	0	
625	N751	-9.914867	.875	6.759838	0	
626	N752	-8.796625	.875	8.162071	0	
627	N753	-7.48188	.875	9.381976	0	
628	N754	-6.000003	.875	10.392303	0	
629	N755	-4.384095	.875	11.170484	0	
630	N756	-2.670254	.875	11.699134	0	
631	N757	-0.896764	.875	11.966445	0	
632	N758	0.448703	0	11.991608	0	
633	N759	1.343583	0	11.924546	0	
634	N760	2.230948	0	11.790796	0	
635	N761	3.105837	0	11.591108	0	
636	N762	3.963357	0	11.326597	0	
637	N763	4.798713	0	10.998743	0	
638	N764	5.607231	0	10.609381	0	
639	N765	6.384393	0	10.160686	0	
640	N766	7.125849	0	9.655168	0	
641	N767	7.827456	0	9.095655	0	
642	N768	8.485288	0	8.485275	0	
643	N769	9.095667	0	7.827442	0	
644	N770	9.655179	0	7.125835	0	
645	N771	10.160695	0	6.384377	0	
646	N772	10.609389	0	5.607216	0	
647	N773	10.998751	0	4.798696	0	
648	N774	11.326603	0	3.96334	0	
649	N775	11.591112	0	3.10582	0	
650	N776	11.790799	0	2.23093	0	
651	N777	11.924548	0	1.343565	0	
652	N778	11.991609	0	0.448685	0	
653	N779	11.991608	0	-0.448703	0	
654	N780	11.924546	0	-1.343583	0	
655	N781	11.790796	0	-2.230948	0	
656	N782	11.591108	0	-3.105837	0	
657	N783	11.326597	0	-3.963357	0	
658	N784	10.998743	0	-4.798712	0	
659	N785	10.609381	0	-5.607231	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
660	N786	10.160686	0	-6.384392	0	
661	N787	9.655168	0	-7.125849	0	
662	N788	9.095655	0	-7.827456	0	
663	N789	8.485275	0	-8.485288	0	
664	N790	7.827442	0	-9.095667	0	
665	N791	7.125835	0	-9.655179	0	
666	N792	6.384377	0	-10.160695	0	
667	N793	5.607216	0	-10.609389	0	
668	N794	4.798696	0	-10.998751	0	
669	N795	3.96334	0	-11.326603	0	
670	N796	3.10582	0	-11.591112	0	
671	N797	2.230931	0	-11.790799	0	
672	N798	1.343565	0	-11.924548	0	
673	N799	0.448685	0	-11.991609	0	
674	N800	-0.448703	0	-11.991608	0	
675	N801	-1.343583	0	-11.924546	0	
676	N802	-2.230948	0	-11.790796	0	
677	N803	-3.105837	0	-11.591108	0	
678	N804	-3.963357	0	-11.326597	0	
679	N805	-4.798712	0	-10.998744	0	
680	N806	-5.607231	0	-10.609381	0	
681	N807	-6.384392	0	-10.160686	0	
682	N808	-7.125849	0	-9.655168	0	
683	N809	-7.827456	0	-9.095655	0	
684	N810	-8.485288	0	-8.485275	0	
685	N811	-9.095666	0	-7.827442	0	
686	N812	-9.655179	0	-7.125835	0	
687	N813	-10.160695	0	-6.384377	0	
688	N814	-10.609389	0	-5.607216	0	
689	N815	-10.998751	0	-4.798696	0	
690	N816	-11.326603	0	-3.96334	0	
691	N817	-11.591112	0	-3.10582	0	
692	N818	-11.790799	0	-2.230931	0	
693	N819	-11.924548	0	-1.343565	0	
694	N820	-11.991609	0	-0.448685	0	
695	N821	-11.991608	0	0.448703	0	
696	N822	-11.924546	0	1.343583	0	
697	N823	-11.790796	0	2.230948	0	
698	N824	-11.591108	0	3.105837	0	
699	N825	-11.326597	0	3.963357	0	
700	N826	-10.998744	0	4.798712	0	
701	N827	-10.609381	0	5.607231	0	
702	N828	-10.160686	0	6.384392	0	
703	N829	-9.655168	0	7.125849	0	
704	N830	-9.095655	0	7.827456	0	
705	N831	-8.485275	0	8.485288	0	
706	N832	-7.827442	0	9.095666	0	
707	N833	-7.125835	0	9.655179	0	
708	N834	-6.384377	0	10.160695	0	
709	N835	-5.607216	0	10.609389	0	
710	N836	-4.798696	0	10.998751	0	
711	N837	-3.96334	0	11.326603	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
712	N838	-3.10582	0	11.591112	0	
713	N839	-2.230931	0	11.790799	0	
714	N840	-1.343565	0	11.924548	0	
715	N841	-0.448685	0	11.991609	0	
716	N716A	0.760266	10.771083	5.044696	0	
717	N717A	2.213467	10.771101	4.596423	0	
718	N718A	3.469712	10.771094	3.73978	0	
719	N719A	4.418558	10.770988	2.550926	0	
720	N720A	4.974165	10.771002	1.135263	0	
721	N721A	5.087682	10.770977	-0.381264	0	
722	N722A	4.748577	10.771065	-1.863864	0	
723	N723A	3.988576	10.771081	-3.180846	0	
724	N724A	2.873562	10.771111	-4.215161	0	
725	N725A	1.503593	10.771072	-4.875043	0	
726	N726A	0	10.771067	-5.101706	0	
727	N727A	-1.503593	10.771072	-4.875043	0	
728	N728A	-2.873562	10.771111	-4.215161	0	
729	N729A	-3.988576	10.771081	-3.180846	0	
730	N730A	-4.748577	10.771065	-1.863864	0	
731	N731A	-5.087682	10.770977	-0.381264	0	
732	N732A	-4.974165	10.771002	1.135263	0	
733	N733A	-4.418558	10.770988	2.550926	0	
734	N734A	-3.469712	10.771094	3.73978	0	
735	N735A	-2.213467	10.771101	4.596423	0	
736	N736A	-0.760266	10.771083	5.044696	0	
737	N737A	1.250957	8.972332	8.298343	0	
738	N738A	3.641315	8.972371	7.560934	0	
739	N739A	5.707842	8.972355	6.151795	0	
740	N740A	7.268047	8.972127	4.196225	0	
741	N741A	8.182048	8.972157	1.867483	0	
742	N742A	8.368853	8.972104	-0.627172	0	
743	N743A	7.81155	8.972294	-3.065995	0	
744	N744A	6.561163	8.972328	-5.232378	0	
745	N745A	4.727288	8.972393	-6.933766	0	
746	N746A	2.473507	8.972309	-8.019279	0	
747	N747A	0	8.972299	-8.392137	0	
748	N748A	-2.473507	8.972309	-8.019279	0	
749	N749A	-4.727288	8.972393	-6.933766	0	
750	N750A	-6.561163	8.972328	-5.232378	0	
751	N751A	-7.81155	8.972294	-3.065995	0	
752	N752A	-8.368853	8.972104	-0.627172	0	
753	N753A	-8.182048	8.972157	1.867483	0	
754	N754A	-7.268047	8.972127	4.196225	0	
755	N755A	-5.707842	8.972355	6.151795	0	
756	N756A	-3.641315	8.972371	7.560934	0	
757	N757A	-1.250957	8.972332	8.298343	0	
758	N758A	0	10.291396	5.979154	0	
759	N759A	1.762236	10.291402	5.713506	0	
760	N760A	3.367889	10.291453	4.940123	0	
761	N761A	4.674599	10.291414	3.727921	0	
762	N762A	5.565369	10.291393	2.184432	0	
763	N763A	5.962661	10.291277	0.446839	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
764	N764A	5.829601	10.29131	-1.330522	0	
765	N765A	5.178422	10.291291	-2.989673	0	
766	N766A	4.066547	10.29143	-4.382984	0	
767	N767A	2.594227	10.29144	-5.386959	0	
768	N768A	0.891117	10.291416	-5.912335	0	
769	N769A	-0.891117	10.291416	-5.912335	0	
770	N770A	-2.594227	10.29144	-5.386959	0	
771	N771A	-4.066547	10.29143	-4.382984	0	
772	N772A	-5.178422	10.291291	-2.989673	0	
773	N773A	-5.829601	10.29131	-1.330522	0	
774	N774A	-5.962661	10.291277	0.446839	0	
775	N775A	-5.565369	10.291393	2.184432	0	
776	N776A	-4.674599	10.291414	3.727921	0	
777	N777A	-3.367889	10.291453	4.940123	0	
778	N778A	-1.762236	10.291402	5.713506	0	
779	N779A	0	9.45197	7.514688	0	
780	N780A	2.214863	9.451979	7.180816	0	
781	N781A	4.232961	9.452051	6.208805	0	
782	N782A	5.87514	9.451996	4.685303	0	
783	N783A	6.994757	9.451966	2.745426	0	
784	N784A	7.493874	9.451803	0.561596	0	
785	N785A	7.326613	9.451849	-1.672225	0	
786	N786A	6.508183	9.451823	-3.757479	0	
787	N787A	5.111008	9.452019	-5.508591	0	
788	N788A	3.260555	9.452033	-6.770397	0	
789	N789A	1.120106	9.451999	-7.430704	0	
790	N790A	-1.120106	9.451999	-7.430704	0	
791	N791A	-3.260555	9.452033	-6.770397	0	
792	N792A	-5.111008	9.452019	-5.508591	0	
793	N793A	-6.508183	9.451823	-3.757479	0	
794	N794A	-7.326613	9.451849	-1.672225	0	
795	N795A	-7.493874	9.451803	0.561596	0	
796	N796A	-6.994757	9.451966	2.745426	0	
797	N797A	-5.87514	9.451996	4.685303	0	
798	N798A	-4.232961	9.452051	6.208805	0	
799	N799A	-2.214863	9.451979	7.180816	0	
800	N800A	0	9.25	0	0	
801	N801A	2.244	12.33	0	0	
802	N802A	-2.244	12.33	0	0	
803	N803A	-.499	12.33	2.187454	0	
804	N804A	.499	12.33	2.187454	0	
805	N805A	.499	12.33	-2.187454	0	
806	N806A	-.499	12.33	-2.187454	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N127	Reaction	Reaction	Reaction			
2	N128	Reaction	Reaction	Reaction			
3	N129	Reaction	Reaction	Reaction			
4	N130	Reaction	Reaction	Reaction			

Joint Boundary Conditions (Continued)

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
5	N131	Reaction	Reaction	Reaction			
6	N132	Reaction	Reaction	Reaction			
7	N133	Reaction	Reaction	Reaction			
8	N134	Reaction	Reaction	Reaction			
9	N135	Reaction	Reaction	Reaction			
10	N136	Reaction	Reaction	Reaction			
11	N137	Reaction	Reaction	Reaction			
12	N138	Reaction	Reaction	Reaction			
13	N139	Reaction	Reaction	Reaction			
14	N140	Reaction	Reaction	Reaction			
15	N141	Reaction	Reaction	Reaction			
16	N142	Reaction	Reaction	Reaction			
17	N143	Reaction	Reaction	Reaction			
18	N144	Reaction	Reaction	Reaction			
19	N145	Reaction	Reaction	Reaction			
20	N146	Reaction	Reaction	Reaction			
21	N147	Reaction	Reaction	Reaction			
22	N148	Reaction	Reaction	Reaction			
23	N149	Reaction	Reaction	Reaction			
24	N150	Reaction	Reaction	Reaction			
25	N151	Reaction	Reaction	Reaction			
26	N152	Reaction	Reaction	Reaction			
27	N153	Reaction	Reaction	Reaction			
28	N154	Reaction	Reaction	Reaction			
29	N155	Reaction	Reaction	Reaction			
30	N156	Reaction	Reaction	Reaction			
31	N157	Reaction	Reaction	Reaction			
32	N158	Reaction	Reaction	Reaction			
33	N159	Reaction	Reaction	Reaction			
34	N160	Reaction	Reaction	Reaction			
35	N161	Reaction	Reaction	Reaction			
36	N162	Reaction	Reaction	Reaction			
37	N163	Reaction	Reaction	Reaction			
38	N164	Reaction	Reaction	Reaction			
39	N165	Reaction	Reaction	Reaction			
40	N166	Reaction	Reaction	Reaction			
41	N167	Reaction	Reaction	Reaction			
42	N168	Reaction	Reaction	Reaction			
43	N169	Reaction	Reaction	Reaction			

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	RNG1	N1	N2		90	RING	Beam	Rectangular D...	RING	Typical
2	RNG2	N2	N804A		90	RING	Beam	Rectangular D...	RING	Typical
3	RNG3	N3	N4		90	RING	Beam	Rectangular D...	RING	Typical
4	RNG4	N4	N5		90	RING	Beam	Rectangular D...	RING	Typical
5	RNG5	N5	N6		90	RING	Beam	Rectangular D...	RING	Typical
6	RNG6	N6	N7		90	RING	Beam	Rectangular D...	RING	Typical
7	RNG7	N7	N8		90	RING	Beam	Rectangular D...	RING	Typical
8	RNG8	N8	N9		90	RING	Beam	Rectangular D...	RING	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
9	RNG9	N9	N10		90	RING	Beam	Rectangular D...	RING	Typical
10	RNG10	N10	N11		90	RING	Beam	Rectangular D...	RING	Typical
11	RNG11	N11	N801A		90	RING	Beam	Rectangular D...	RING	Typical
12	RNG12	N12	N13		90	RING	Beam	Rectangular D...	RING	Typical
13	RNG13	N13	N14		90	RING	Beam	Rectangular D...	RING	Typical
14	RNG14	N14	N15		90	RING	Beam	Rectangular D...	RING	Typical
15	RNG15	N15	N16		90	RING	Beam	Rectangular D...	RING	Typical
16	RNG16	N16	N17		90	RING	Beam	Rectangular D...	RING	Typical
17	RNG17	N17	N18		90	RING	Beam	Rectangular D...	RING	Typical
18	RNG18	N18	N19		90	RING	Beam	Rectangular D...	RING	Typical
19	RNG19	N19	N20		90	RING	Beam	Rectangular D...	RING	Typical
20	RNG20	N20	N805A		90	RING	Beam	Rectangular D...	RING	Typical
21	RNG21	N21	N22		90	RING	Beam	Rectangular D...	RING	Typical
22	RNG22	N22	N23		90	RING	Beam	Rectangular D...	RING	Typical
23	RNG23	N23	N806A		90	RING	Beam	Rectangular D...	RING	Typical
24	RNG24	N24	N25		90	RING	Beam	Rectangular D...	RING	Typical
25	RNG25	N25	N26		90	RING	Beam	Rectangular D...	RING	Typical
26	RNG26	N26	N27		90	RING	Beam	Rectangular D...	RING	Typical
27	RNG27	N27	N28		90	RING	Beam	Rectangular D...	RING	Typical
28	RNG28	N28	N29		90	RING	Beam	Rectangular D...	RING	Typical
29	RNG29	N29	N30		90	RING	Beam	Rectangular D...	RING	Typical
30	RNG30	N30	N31		90	RING	Beam	Rectangular D...	RING	Typical
31	RNG31	N31	N32		90	RING	Beam	Rectangular D...	RING	Typical
32	RNG32	N32	N802A		90	RING	Beam	Rectangular D...	RING	Typical
33	RNG33	N33	N34		90	RING	Beam	Rectangular D...	RING	Typical
34	RNG34	N34	N35		90	RING	Beam	Rectangular D...	RING	Typical
35	RNG35	N35	N36		90	RING	Beam	Rectangular D...	RING	Typical
36	RNG36	N36	N37		90	RING	Beam	Rectangular D...	RING	Typical
37	RNG37	N37	N38		90	RING	Beam	Rectangular D...	RING	Typical
38	RNG38	N38	N39		90	RING	Beam	Rectangular D...	RING	Typical
39	RNG39	N39	N40		90	RING	Beam	Rectangular D...	RING	Typical
40	RNG40	N40	N41		90	RING	Beam	Rectangular D...	RING	Typical
41	RNG41	N41	N803A		90	RING	Beam	Rectangular D...	RING	Typical
42	RNG42	N42	N1		90	RING	Beam	Rectangular D...	RING	Typical
43	C1	N43	N44			5/16 CABLE	Beam	None	A36	Typical
44	C2	N44	N45			5/16 CABLE	Beam	None	A36	Typical
45	C3	N45	N46			5/16 CABLE	Beam	None	A36	Typical
46	C4	N46	N47			5/16 CABLE	Beam	None	A36	Typical
47	C5	N47	N48			5/16 CABLE	Beam	None	A36	Typical
48	C6	N48	N49			5/16 CABLE	Beam	None	A36	Typical
49	C7	N49	N50			5/16 CABLE	Beam	None	A36	Typical
50	C8	N50	N51			5/16 CABLE	Beam	None	A36	Typical
51	C9	N51	N52			5/16 CABLE	Beam	None	A36	Typical
52	C10	N52	N53			5/16 CABLE	Beam	None	A36	Typical
53	C11	N53	N54			5/16 CABLE	Beam	None	A36	Typical
54	C12	N54	N55			5/16 CABLE	Beam	None	A36	Typical
55	C13	N55	N56			5/16 CABLE	Beam	None	A36	Typical
56	C14	N56	N57			5/16 CABLE	Beam	None	A36	Typical
57	C15	N57	N58			5/16 CABLE	Beam	None	A36	Typical
58	C16	N58	N59			5/16 CABLE	Beam	None	A36	Typical
59	C17	N59	N60			5/16 CABLE	Beam	None	A36	Typical
60	C18	N60	N61			5/16 CABLE	Beam	None	A36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
61	C19	N61	N62			5/16 CABLE	Beam	None	A36	Typical
62	C20	N62	N63			5/16 CABLE	Beam	None	A36	Typical
63	C21	N63	N64			5/16 CABLE	Beam	None	A36	Typical
64	C22	N64	N65			5/16 CABLE	Beam	None	A36	Typical
65	C23	N65	N66			5/16 CABLE	Beam	None	A36	Typical
66	C24	N66	N67			5/16 CABLE	Beam	None	A36	Typical
67	C25	N67	N68			5/16 CABLE	Beam	None	A36	Typical
68	C26	N68	N69			5/16 CABLE	Beam	None	A36	Typical
69	C27	N69	N70			5/16 CABLE	Beam	None	A36	Typical
70	C28	N70	N71			5/16 CABLE	Beam	None	A36	Typical
71	C29	N71	N72			5/16 CABLE	Beam	None	A36	Typical
72	C30	N72	N73			5/16 CABLE	Beam	None	A36	Typical
73	C31	N73	N74			5/16 CABLE	Beam	None	A36	Typical
74	C32	N74	N75			5/16 CABLE	Beam	None	A36	Typical
75	C33	N75	N76			5/16 CABLE	Beam	None	A36	Typical
76	C34	N76	N77			5/16 CABLE	Beam	None	A36	Typical
77	C35	N77	N78			5/16 CABLE	Beam	None	A36	Typical
78	C36	N78	N79			5/16 CABLE	Beam	None	A36	Typical
79	C37	N79	N80			5/16 CABLE	Beam	None	A36	Typical
80	C38	N80	N81			5/16 CABLE	Beam	None	A36	Typical
81	C39	N81	N82			5/16 CABLE	Beam	None	A36	Typical
82	C40	N82	N83			5/16 CABLE	Beam	None	A36	Typical
83	C41	N83	N84			5/16 CABLE	Beam	None	A36	Typical
84	C42	N84	N43			5/16 CABLE	Beam	None	A36	Typical
85	ST1	N43	N127	N169		POST	Beam	Rectangular D...	STUD	Typical
86	ST2	N44	N128	N169		POST	Beam	Rectangular D...	STUD	Typical
87	ST3	N45	N129	N169		POST	Beam	Rectangular D...	STUD	Typical
88	ST4	N46	N130	N169		POST	Beam	Rectangular D...	STUD	Typical
89	ST5	N47	N131	N169		POST	Beam	Rectangular D...	STUD	Typical
90	ST6	N48	N132	N169		POST	Beam	Rectangular D...	STUD	Typical
91	ST7	N49	N133	N169		POST	Beam	Rectangular D...	STUD	Typical
92	ST8	N50	N134	N169		POST	Beam	Rectangular D...	STUD	Typical
93	ST9	N51	N135	N169		POST	Beam	Rectangular D...	STUD	Typical
94	ST10	N52	N136	N169		POST	Beam	Rectangular D...	STUD	Typical
95	ST11	N53	N137	N169		POST	Beam	Rectangular D...	STUD	Typical
96	ST12	N54	N138	N169		POST	Beam	Rectangular D...	STUD	Typical
97	ST13	N55	N139	N169		POST	Beam	Rectangular D...	STUD	Typical
98	ST14	N56	N140	N169		POST	Beam	Rectangular D...	STUD	Typical
99	ST15	N57	N141	N169		POST	Beam	Rectangular D...	STUD	Typical
100	ST16	N58	N142	N169		POST	Beam	Rectangular D...	STUD	Typical
101	ST17	N59	N143	N169		POST	Beam	Rectangular D...	STUD	Typical
102	ST18	N60	N144	N169		POST	Beam	Rectangular D...	STUD	Typical
103	ST19	N61	N145	N169		POST	Beam	Rectangular D...	STUD	Typical
104	ST20	N62	N146	N169		POST	Beam	Rectangular D...	STUD	Typical
105	ST21	N63	N147	N169		POST	Beam	Rectangular D...	STUD	Typical
106	ST22	N64	N148	N169		POST	Beam	Rectangular D...	STUD	Typical
107	ST23	N65	N149	N169		POST	Beam	Rectangular D...	STUD	Typical
108	ST24	N66	N150	N169		POST	Beam	Rectangular D...	STUD	Typical
109	ST25	N67	N151	N169		POST	Beam	Rectangular D...	STUD	Typical
110	ST26	N68	N152	N169		POST	Beam	Rectangular D...	STUD	Typical
111	ST27	N69	N153	N169		POST	Beam	Rectangular D...	STUD	Typical
112	ST28	N70	N154	N169		POST	Beam	Rectangular D...	STUD	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
113	ST29	N71	N155	N169		POST	Beam	Rectangular D...	STUD	Typical
114	ST30	N72	N156	N169		POST	Beam	Rectangular D...	STUD	Typical
115	ST31	N73	N157	N169		POST	Beam	Rectangular D...	STUD	Typical
116	ST32	N74	N158	N169		POST	Beam	Rectangular D...	STUD	Typical
117	ST33	N75	N159	N169		POST	Beam	Rectangular D...	STUD	Typical
118	ST34	N76	N160	N169		POST	Beam	Rectangular D...	STUD	Typical
119	ST35	N77	N161	N169		POST	Beam	Rectangular D...	STUD	Typical
120	ST36	N78	N162	N169		POST	Beam	Rectangular D...	STUD	Typical
121	ST37	N79	N163	N169		POST	Beam	Rectangular D...	STUD	Typical
122	ST38	N80	N164	N169		POST	Beam	Rectangular D...	STUD	Typical
123	ST39	N81	N165	N169		POST	Beam	Rectangular D...	STUD	Typical
124	ST40	N82	N166	N169		POST	Beam	Rectangular D...	STUD	Typical
125	ST41	N83	N167	N169		POST	Beam	Rectangular D...	STUD	Typical
126	ST42	N84	N168	N169		POST	Beam	Rectangular D...	STUD	Typical
127	R1	N1	N43			RAFTER	Beam	Rectangular D...	RAFTER	Typical
128	R2	N2	N44			RAFTER	Beam	Rectangular D...	RAFTER	Typical
129	R3	N3	N45			RAFTER	Beam	Rectangular D...	RAFTER	Typical
130	R4	N4	N46			RAFTER	Beam	Rectangular D...	RAFTER	Typical
131	R5	N5	N47			RAFTER	Beam	Rectangular D...	RAFTER	Typical
132	R6	N6	N48			RAFTER	Beam	Rectangular D...	RAFTER	Typical
133	R7	N7	N49			RAFTER	Beam	Rectangular D...	RAFTER	Typical
134	R8	N8	N50			RAFTER	Beam	Rectangular D...	RAFTER	Typical
135	R9	N9	N51			RAFTER	Beam	Rectangular D...	RAFTER	Typical
136	R10	N10	N52			RAFTER	Beam	Rectangular D...	RAFTER	Typical
137	R11	N11	N53			RAFTER	Beam	Rectangular D...	RAFTER	Typical
138	R12	N12	N54			RAFTER	Beam	Rectangular D...	RAFTER	Typical
139	R13	N13	N55			RAFTER	Beam	Rectangular D...	RAFTER	Typical
140	R14	N14	N56			RAFTER	Beam	Rectangular D...	RAFTER	Typical
141	R15	N15	N57			RAFTER	Beam	Rectangular D...	RAFTER	Typical
142	R16	N16	N58			RAFTER	Beam	Rectangular D...	RAFTER	Typical
143	R17	N17	N59			RAFTER	Beam	Rectangular D...	RAFTER	Typical
144	R18	N18	N60			RAFTER	Beam	Rectangular D...	RAFTER	Typical
145	R19	N19	N61			RAFTER	Beam	Rectangular D...	RAFTER	Typical
146	R20	N20	N62			RAFTER	Beam	Rectangular D...	RAFTER	Typical
147	R21	N21	N63			RAFTER	Beam	Rectangular D...	RAFTER	Typical
148	R22	N22	N64			RAFTER	Beam	Rectangular D...	RAFTER	Typical
149	R23	N23	N65			RAFTER	Beam	Rectangular D...	RAFTER	Typical
150	R24	N24	N66			RAFTER	Beam	Rectangular D...	RAFTER	Typical
151	R25	N25	N67			RAFTER	Beam	Rectangular D...	RAFTER	Typical
152	R26	N26	N68			RAFTER	Beam	Rectangular D...	RAFTER	Typical
153	R27	N27	N69			RAFTER	Beam	Rectangular D...	RAFTER	Typical
154	R28	N28	N70			RAFTER	Beam	Rectangular D...	RAFTER	Typical
155	R29	N29	N71			RAFTER	Beam	Rectangular D...	RAFTER	Typical
156	R30	N30	N72			RAFTER	Beam	Rectangular D...	RAFTER	Typical
157	R31	N31	N73			RAFTER	Beam	Rectangular D...	RAFTER	Typical
158	R32	N32	N74			RAFTER	Beam	Rectangular D...	RAFTER	Typical
159	R33	N33	N75			RAFTER	Beam	Rectangular D...	RAFTER	Typical
160	R34	N34	N76			RAFTER	Beam	Rectangular D...	RAFTER	Typical
161	R35	N35	N77			RAFTER	Beam	Rectangular D...	RAFTER	Typical
162	R36	N36	N78			RAFTER	Beam	Rectangular D...	RAFTER	Typical
163	R37	N37	N79			RAFTER	Beam	Rectangular D...	RAFTER	Typical
164	R38	N38	N80			RAFTER	Beam	Rectangular D...	RAFTER	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
165	R39	N39	N81			RAFTER	Beam	Rectangular D...	RAFTER	Typical
166	R40	N40	N82			RAFTER	Beam	Rectangular D...	RAFTER	Typical
167	R41	N41	N83			RAFTER	Beam	Rectangular D...	RAFTER	Typical
168	R42	N42	N84			RAFTER	Beam	Rectangular D...	RAFTER	Typical
169	BLK1219	N43	N44	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
170	BLK1220	N44	N45	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
171	BLK1221	N45	N46	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
172	BLK1222	N46	N47	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
173	BLK1223	N47	N48	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
174	BLK1224	N48	N49	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
175	BLK1225	N49	N50	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
176	BLK1226	N50	N51	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
177	BLK1227	N51	N52	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
178	BLK1228	N52	N53	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
179	BLK1229	N53	N54	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
180	BLK1230	N54	N55	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
181	BLK1231	N55	N56	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
182	BLK1232	N56	N57	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
183	BLK1233	N57	N58	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
184	BLK1234	N58	N59	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
185	BLK1235	N59	N60	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
186	BLK1236	N60	N61	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
187	BLK1237	N61	N62	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
188	BLK1238	N62	N63	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
189	BLK1239	N63	N64	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
190	BLK1240	N64	N65	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
191	BLK1241	N65	N66	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
192	BLK1242	N66	N67	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
193	BLK1243	N67	N68	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
194	BLK1244	N68	N69	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
195	BLK1245	N69	N70	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
196	BLK1246	N70	N71	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
197	BLK1247	N71	N72	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
198	BLK1248	N72	N73	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
199	BLK1249	N73	N74	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
200	BLK1250	N74	N75	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
201	BLK1251	N75	N76	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
202	BLK1252	N76	N77	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
203	BLK1253	N77	N78	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
204	BLK1254	N78	N79	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
205	BLK1255	N79	N80	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
206	BLK1256	N80	N81	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
207	BLK1257	N81	N82	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
208	BLK1258	N82	N83	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
209	BLK1259	N83	N84	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
210	BLK1260	N84	N43	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
211	L211	N758	N716	N169		LATH	Beam	None	GEN_WO...	Typical
212	L212	N716	N633	N169		LATH	Beam	None	GEN_WO...	Typical
213	L213	N633	N550	N169		LATH	Beam	None	GEN_WO...	Typical
214	L214	N550	N507	N169		LATH	Beam	None	GEN_WO...	Typical
215	L215	N507	N87	N169		LATH	Beam	None	GEN_WO...	Typical
216	L216	N87	N384	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
217	L217	N759	N339	N169		LATH	Beam	None	GEN_WO...	Typical
218	L218	N339	N634	N169		LATH	Beam	None	GEN_WO...	Typical
219	L219	N634	N551	N169		LATH	Beam	None	GEN_WO...	Typical
220	L220	N551	N256	N169		LATH	Beam	None	GEN_WO...	Typical
221	L221	N256	N466	N169		LATH	Beam	None	GEN_WO...	Typical
222	L222	N466	N385	N169		LATH	Beam	None	GEN_WO...	Typical
223	L223	N760	N717	N169		LATH	Beam	None	GEN_WO...	Typical
224	L224	N717	N635	N169		LATH	Beam	None	GEN_WO...	Typical
225	L225	N635	N552	N169		LATH	Beam	None	GEN_WO...	Typical
226	L226	N552	N508	N169		LATH	Beam	None	GEN_WO...	Typical
227	L227	N508	N88	N169		LATH	Beam	None	GEN_WO...	Typical
228	L228	N88	N386	N169		LATH	Beam	None	GEN_WO...	Typical
229	L229	N761	N340	N169		LATH	Beam	None	GEN_WO...	Typical
230	L230	N340	N636	N169		LATH	Beam	None	GEN_WO...	Typical
231	L231	N636	N553	N169		LATH	Beam	None	GEN_WO...	Typical
232	L232	N553	N257	N169		LATH	Beam	None	GEN_WO...	Typical
233	L233	N257	N467	N169		LATH	Beam	None	GEN_WO...	Typical
234	L234	N467	N387	N169		LATH	Beam	None	GEN_WO...	Typical
235	L235	N762	N718	N169		LATH	Beam	None	GEN_WO...	Typical
236	L236	N718	N637	N169		LATH	Beam	None	GEN_WO...	Typical
237	L237	N637	N554	N169		LATH	Beam	None	GEN_WO...	Typical
238	L238	N554	N509	N169		LATH	Beam	None	GEN_WO...	Typical
239	L239	N509	N89	N169		LATH	Beam	None	GEN_WO...	Typical
240	L240	N89	N388	N169		LATH	Beam	None	GEN_WO...	Typical
241	L241	N763	N341	N169		LATH	Beam	None	GEN_WO...	Typical
242	L242	N341	N638	N169		LATH	Beam	None	GEN_WO...	Typical
243	L243	N638	N555	N169		LATH	Beam	None	GEN_WO...	Typical
244	L244	N555	N258	N169		LATH	Beam	None	GEN_WO...	Typical
245	L245	N258	N468	N169		LATH	Beam	None	GEN_WO...	Typical
246	L246	N468	N389	N169		LATH	Beam	None	GEN_WO...	Typical
247	L247	N764	N719	N169		LATH	Beam	None	GEN_WO...	Typical
248	L248	N719	N639	N169		LATH	Beam	None	GEN_WO...	Typical
249	L249	N639	N556	N169		LATH	Beam	None	GEN_WO...	Typical
250	L250	N556	N510	N169		LATH	Beam	None	GEN_WO...	Typical
251	L251	N510	N90	N169		LATH	Beam	None	GEN_WO...	Typical
252	L252	N90	N390	N169		LATH	Beam	None	GEN_WO...	Typical
253	L253	N765	N342	N169		LATH	Beam	None	GEN_WO...	Typical
254	L254	N342	N640	N169		LATH	Beam	None	GEN_WO...	Typical
255	L255	N640	N557	N169		LATH	Beam	None	GEN_WO...	Typical
256	L256	N557	N259	N169		LATH	Beam	None	GEN_WO...	Typical
257	L257	N259	N469	N169		LATH	Beam	None	GEN_WO...	Typical
258	L258	N469	N391	N169		LATH	Beam	None	GEN_WO...	Typical
259	L259	N766	N720	N169		LATH	Beam	None	GEN_WO...	Typical
260	L260	N720	N641	N169		LATH	Beam	None	GEN_WO...	Typical
261	L261	N641	N558	N169		LATH	Beam	None	GEN_WO...	Typical
262	L262	N558	N511	N169		LATH	Beam	None	GEN_WO...	Typical
263	L263	N511	N91	N169		LATH	Beam	None	GEN_WO...	Typical
264	L264	N91	N392	N169		LATH	Beam	None	GEN_WO...	Typical
265	L265	N767	N343	N169		LATH	Beam	None	GEN_WO...	Typical
266	L266	N343	N642	N169		LATH	Beam	None	GEN_WO...	Typical
267	L267	N642	N559	N169		LATH	Beam	None	GEN_WO...	Typical
268	L268	N559	N260	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
269	L269	N260	N470	N169		LATH	Beam	None	GEN_WO...	Typical
270	L270	N470	N393	N169		LATH	Beam	None	GEN_WO...	Typical
271	L271	N768	N721	N169		LATH	Beam	None	GEN_WO...	Typical
272	L272	N721	N643	N169		LATH	Beam	None	GEN_WO...	Typical
273	L273	N643	N560	N169		LATH	Beam	None	GEN_WO...	Typical
274	L274	N560	N512	N169		LATH	Beam	None	GEN_WO...	Typical
275	L275	N512	N92	N169		LATH	Beam	None	GEN_WO...	Typical
276	L276	N92	N394	N169		LATH	Beam	None	GEN_WO...	Typical
277	L277	N769	N344	N169		LATH	Beam	None	GEN_WO...	Typical
278	L278	N344	N644	N169		LATH	Beam	None	GEN_WO...	Typical
279	L279	N644	N561	N169		LATH	Beam	None	GEN_WO...	Typical
280	L280	N561	N261	N169		LATH	Beam	None	GEN_WO...	Typical
281	L281	N261	N471	N169		LATH	Beam	None	GEN_WO...	Typical
282	L282	N471	N395	N169		LATH	Beam	None	GEN_WO...	Typical
283	L283	N770	N722	N169		LATH	Beam	None	GEN_WO...	Typical
284	L284	N722	N645	N169		LATH	Beam	None	GEN_WO...	Typical
285	L285	N645	N562	N169		LATH	Beam	None	GEN_WO...	Typical
286	L286	N562	N513	N169		LATH	Beam	None	GEN_WO...	Typical
287	L287	N513	N93	N169		LATH	Beam	None	GEN_WO...	Typical
288	L288	N93	N396	N169		LATH	Beam	None	GEN_WO...	Typical
289	L289	N771	N345	N169		LATH	Beam	None	GEN_WO...	Typical
290	L290	N345	N646	N169		LATH	Beam	None	GEN_WO...	Typical
291	L291	N646	N563	N169		LATH	Beam	None	GEN_WO...	Typical
292	L292	N563	N262	N169		LATH	Beam	None	GEN_WO...	Typical
293	L293	N262	N472	N169		LATH	Beam	None	GEN_WO...	Typical
294	L294	N472	N397	N169		LATH	Beam	None	GEN_WO...	Typical
295	L295	N772	N723	N169		LATH	Beam	None	GEN_WO...	Typical
296	L296	N723	N647	N169		LATH	Beam	None	GEN_WO...	Typical
297	L297	N647	N564	N169		LATH	Beam	None	GEN_WO...	Typical
298	L298	N564	N514	N169		LATH	Beam	None	GEN_WO...	Typical
299	L299	N514	N94	N169		LATH	Beam	None	GEN_WO...	Typical
300	L300	N94	N398	N169		LATH	Beam	None	GEN_WO...	Typical
301	L301	N773	N346	N169		LATH	Beam	None	GEN_WO...	Typical
302	L302	N346	N648	N169		LATH	Beam	None	GEN_WO...	Typical
303	L303	N648	N565	N169		LATH	Beam	None	GEN_WO...	Typical
304	L304	N565	N263	N169		LATH	Beam	None	GEN_WO...	Typical
305	L305	N263	N473	N169		LATH	Beam	None	GEN_WO...	Typical
306	L306	N473	N399	N169		LATH	Beam	None	GEN_WO...	Typical
307	L307	N774	N724	N169		LATH	Beam	None	GEN_WO...	Typical
308	L308	N724	N649	N169		LATH	Beam	None	GEN_WO...	Typical
309	L309	N649	N566	N169		LATH	Beam	None	GEN_WO...	Typical
310	L310	N566	N515	N169		LATH	Beam	None	GEN_WO...	Typical
311	L311	N515	N95	N169		LATH	Beam	None	GEN_WO...	Typical
312	L312	N95	N400	N169		LATH	Beam	None	GEN_WO...	Typical
313	L313	N775	N347	N169		LATH	Beam	None	GEN_WO...	Typical
314	L314	N347	N650	N169		LATH	Beam	None	GEN_WO...	Typical
315	L315	N650	N567	N169		LATH	Beam	None	GEN_WO...	Typical
316	L316	N567	N264	N169		LATH	Beam	None	GEN_WO...	Typical
317	L317	N264	N474	N169		LATH	Beam	None	GEN_WO...	Typical
318	L318	N474	N401	N169		LATH	Beam	None	GEN_WO...	Typical
319	L319	N776	N725	N169		LATH	Beam	None	GEN_WO...	Typical
320	L320	N725	N651	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
321	L321	N651	N568	N169		LATH	Beam	None	GEN_WO...	Typical
322	L322	N568	N516	N169		LATH	Beam	None	GEN_WO...	Typical
323	L323	N516	N96	N169		LATH	Beam	None	GEN_WO...	Typical
324	L324	N96	N402	N169		LATH	Beam	None	GEN_WO...	Typical
325	L325	N777	N348	N169		LATH	Beam	None	GEN_WO...	Typical
326	L326	N348	N652	N169		LATH	Beam	None	GEN_WO...	Typical
327	L327	N652	N569	N169		LATH	Beam	None	GEN_WO...	Typical
328	L328	N569	N265	N169		LATH	Beam	None	GEN_WO...	Typical
329	L329	N265	N475	N169		LATH	Beam	None	GEN_WO...	Typical
330	L330	N475	N403	N169		LATH	Beam	None	GEN_WO...	Typical
331	L331	N778	N726	N169		LATH	Beam	None	GEN_WO...	Typical
332	L332	N726	N653	N169		LATH	Beam	None	GEN_WO...	Typical
333	L333	N653	N570	N169		LATH	Beam	None	GEN_WO...	Typical
334	L334	N570	N517	N169		LATH	Beam	None	GEN_WO...	Typical
335	L335	N517	N97	N169		LATH	Beam	None	GEN_WO...	Typical
336	L336	N97	N404	N169		LATH	Beam	None	GEN_WO...	Typical
337	L337	N779	N349	N169		LATH	Beam	None	GEN_WO...	Typical
338	L338	N349	N654	N169		LATH	Beam	None	GEN_WO...	Typical
339	L339	N654	N571	N169		LATH	Beam	None	GEN_WO...	Typical
340	L340	N571	N266	N169		LATH	Beam	None	GEN_WO...	Typical
341	L341	N266	N476	N169		LATH	Beam	None	GEN_WO...	Typical
342	L342	N476	N405	N169		LATH	Beam	None	GEN_WO...	Typical
343	L343	N780	N727	N169		LATH	Beam	None	GEN_WO...	Typical
344	L344	N727	N655	N169		LATH	Beam	None	GEN_WO...	Typical
345	L345	N655	N572	N169		LATH	Beam	None	GEN_WO...	Typical
346	L346	N572	N518	N169		LATH	Beam	None	GEN_WO...	Typical
347	L347	N518	N98	N169		LATH	Beam	None	GEN_WO...	Typical
348	L348	N98	N406	N169		LATH	Beam	None	GEN_WO...	Typical
349	L349	N781	N350	N169		LATH	Beam	None	GEN_WO...	Typical
350	L350	N350	N656	N169		LATH	Beam	None	GEN_WO...	Typical
351	L351	N656	N573	N169		LATH	Beam	None	GEN_WO...	Typical
352	L352	N573	N267	N169		LATH	Beam	None	GEN_WO...	Typical
353	L353	N267	N477	N169		LATH	Beam	None	GEN_WO...	Typical
354	L354	N477	N407	N169		LATH	Beam	None	GEN_WO...	Typical
355	L355	N782	N728	N169		LATH	Beam	None	GEN_WO...	Typical
356	L356	N728	N657	N169		LATH	Beam	None	GEN_WO...	Typical
357	L357	N657	N574	N169		LATH	Beam	None	GEN_WO...	Typical
358	L358	N574	N519	N169		LATH	Beam	None	GEN_WO...	Typical
359	L359	N519	N99	N169		LATH	Beam	None	GEN_WO...	Typical
360	L360	N99	N408	N169		LATH	Beam	None	GEN_WO...	Typical
361	L361	N783	N351	N169		LATH	Beam	None	GEN_WO...	Typical
362	L362	N351	N658	N169		LATH	Beam	None	GEN_WO...	Typical
363	L363	N658	N575	N169		LATH	Beam	None	GEN_WO...	Typical
364	L364	N575	N268	N169		LATH	Beam	None	GEN_WO...	Typical
365	L365	N268	N478	N169		LATH	Beam	None	GEN_WO...	Typical
366	L366	N478	N409	N169		LATH	Beam	None	GEN_WO...	Typical
367	L367	N784	N729	N169		LATH	Beam	None	GEN_WO...	Typical
368	L368	N729	N659	N169		LATH	Beam	None	GEN_WO...	Typical
369	L369	N659	N576	N169		LATH	Beam	None	GEN_WO...	Typical
370	L370	N576	N520	N169		LATH	Beam	None	GEN_WO...	Typical
371	L371	N520	N100	N169		LATH	Beam	None	GEN_WO...	Typical
372	L372	N100	N410	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
373	L373	N785	N352	N169		LATH	Beam	None	GEN_WO...	Typical
374	L374	N352	N660	N169		LATH	Beam	None	GEN_WO...	Typical
375	L375	N660	N577	N169		LATH	Beam	None	GEN_WO...	Typical
376	L376	N577	N269	N169		LATH	Beam	None	GEN_WO...	Typical
377	L377	N269	N479	N169		LATH	Beam	None	GEN_WO...	Typical
378	L378	N479	N411	N169		LATH	Beam	None	GEN_WO...	Typical
379	L379	N786	N730	N169		LATH	Beam	None	GEN_WO...	Typical
380	L380	N730	N661	N169		LATH	Beam	None	GEN_WO...	Typical
381	L381	N661	N578	N169		LATH	Beam	None	GEN_WO...	Typical
382	L382	N578	N521	N169		LATH	Beam	None	GEN_WO...	Typical
383	L383	N521	N101	N169		LATH	Beam	None	GEN_WO...	Typical
384	L384	N101	N412	N169		LATH	Beam	None	GEN_WO...	Typical
385	L385	N787	N353	N169		LATH	Beam	None	GEN_WO...	Typical
386	L386	N353	N662	N169		LATH	Beam	None	GEN_WO...	Typical
387	L387	N662	N579	N169		LATH	Beam	None	GEN_WO...	Typical
388	L388	N579	N270	N169		LATH	Beam	None	GEN_WO...	Typical
389	L389	N270	N480	N169		LATH	Beam	None	GEN_WO...	Typical
390	L390	N480	N413	N169		LATH	Beam	None	GEN_WO...	Typical
391	L391	N788	N731	N169		LATH	Beam	None	GEN_WO...	Typical
392	L392	N731	N663	N169		LATH	Beam	None	GEN_WO...	Typical
393	L393	N663	N580	N169		LATH	Beam	None	GEN_WO...	Typical
394	L394	N580	N522	N169		LATH	Beam	None	GEN_WO...	Typical
395	L395	N522	N102	N169		LATH	Beam	None	GEN_WO...	Typical
396	L396	N102	N414	N169		LATH	Beam	None	GEN_WO...	Typical
397	L397	N789	N354	N169		LATH	Beam	None	GEN_WO...	Typical
398	L398	N354	N664	N169		LATH	Beam	None	GEN_WO...	Typical
399	L399	N664	N581	N169		LATH	Beam	None	GEN_WO...	Typical
400	L400	N581	N271	N169		LATH	Beam	None	GEN_WO...	Typical
401	L401	N271	N481	N169		LATH	Beam	None	GEN_WO...	Typical
402	L402	N481	N415	N169		LATH	Beam	None	GEN_WO...	Typical
403	L403	N790	N732	N169		LATH	Beam	None	GEN_WO...	Typical
404	L404	N732	N665	N169		LATH	Beam	None	GEN_WO...	Typical
405	L405	N665	N582	N169		LATH	Beam	None	GEN_WO...	Typical
406	L406	N582	N523	N169		LATH	Beam	None	GEN_WO...	Typical
407	L407	N523	N103	N169		LATH	Beam	None	GEN_WO...	Typical
408	L408	N103	N416	N169		LATH	Beam	None	GEN_WO...	Typical
409	L409	N791	N355	N169		LATH	Beam	None	GEN_WO...	Typical
410	L410	N355	N666	N169		LATH	Beam	None	GEN_WO...	Typical
411	L411	N666	N583	N169		LATH	Beam	None	GEN_WO...	Typical
412	L412	N583	N272	N169		LATH	Beam	None	GEN_WO...	Typical
413	L413	N272	N482	N169		LATH	Beam	None	GEN_WO...	Typical
414	L414	N482	N417	N169		LATH	Beam	None	GEN_WO...	Typical
415	L415	N792	N733	N169		LATH	Beam	None	GEN_WO...	Typical
416	L416	N733	N667	N169		LATH	Beam	None	GEN_WO...	Typical
417	L417	N667	N584	N169		LATH	Beam	None	GEN_WO...	Typical
418	L418	N584	N524	N169		LATH	Beam	None	GEN_WO...	Typical
419	L419	N524	N104	N169		LATH	Beam	None	GEN_WO...	Typical
420	L420	N104	N418	N169		LATH	Beam	None	GEN_WO...	Typical
421	L421	N793	N356	N169		LATH	Beam	None	GEN_WO...	Typical
422	L422	N356	N668	N169		LATH	Beam	None	GEN_WO...	Typical
423	L423	N668	N585	N169		LATH	Beam	None	GEN_WO...	Typical
424	L424	N585	N273	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
425	L425	N273	N483	N169		LATH	Beam	None	GEN_WO...	Typical
426	L426	N483	N419	N169		LATH	Beam	None	GEN_WO...	Typical
427	L427	N794	N734	N169		LATH	Beam	None	GEN_WO...	Typical
428	L428	N734	N669	N169		LATH	Beam	None	GEN_WO...	Typical
429	L429	N669	N586	N169		LATH	Beam	None	GEN_WO...	Typical
430	L430	N586	N525	N169		LATH	Beam	None	GEN_WO...	Typical
431	L431	N525	N105	N169		LATH	Beam	None	GEN_WO...	Typical
432	L432	N105	N420	N169		LATH	Beam	None	GEN_WO...	Typical
433	L433	N795	N357	N169		LATH	Beam	None	GEN_WO...	Typical
434	L434	N357	N670	N169		LATH	Beam	None	GEN_WO...	Typical
435	L435	N670	N587	N169		LATH	Beam	None	GEN_WO...	Typical
436	L436	N587	N274	N169		LATH	Beam	None	GEN_WO...	Typical
437	L437	N274	N484	N169		LATH	Beam	None	GEN_WO...	Typical
438	L438	N484	N421	N169		LATH	Beam	None	GEN_WO...	Typical
439	L439	N796	N735	N169		LATH	Beam	None	GEN_WO...	Typical
440	L440	N735	N671	N169		LATH	Beam	None	GEN_WO...	Typical
441	L441	N671	N588	N169		LATH	Beam	None	GEN_WO...	Typical
442	L442	N588	N526	N169		LATH	Beam	None	GEN_WO...	Typical
443	L443	N526	N106	N169		LATH	Beam	None	GEN_WO...	Typical
444	L444	N106	N422	N169		LATH	Beam	None	GEN_WO...	Typical
445	L445	N797	N358	N169		LATH	Beam	None	GEN_WO...	Typical
446	L446	N358	N672	N169		LATH	Beam	None	GEN_WO...	Typical
447	L447	N672	N589	N169		LATH	Beam	None	GEN_WO...	Typical
448	L448	N589	N275	N169		LATH	Beam	None	GEN_WO...	Typical
449	L449	N275	N485	N169		LATH	Beam	None	GEN_WO...	Typical
450	L450	N485	N423	N169		LATH	Beam	None	GEN_WO...	Typical
451	L451	N798	N736	N169		LATH	Beam	None	GEN_WO...	Typical
452	L452	N736	N673	N169		LATH	Beam	None	GEN_WO...	Typical
453	L453	N673	N590	N169		LATH	Beam	None	GEN_WO...	Typical
454	L454	N590	N527	N169		LATH	Beam	None	GEN_WO...	Typical
455	L455	N527	N107	N169		LATH	Beam	None	GEN_WO...	Typical
456	L456	N107	N424	N169		LATH	Beam	None	GEN_WO...	Typical
457	L457	N799	N359	N169		LATH	Beam	None	GEN_WO...	Typical
458	L458	N359	N674	N169		LATH	Beam	None	GEN_WO...	Typical
459	L459	N674	N591	N169		LATH	Beam	None	GEN_WO...	Typical
460	L460	N591	N276	N169		LATH	Beam	None	GEN_WO...	Typical
461	L461	N276	N486	N169		LATH	Beam	None	GEN_WO...	Typical
462	L462	N486	N425	N169		LATH	Beam	None	GEN_WO...	Typical
463	L463	N800	N737	N169		LATH	Beam	None	GEN_WO...	Typical
464	L464	N737	N675	N169		LATH	Beam	None	GEN_WO...	Typical
465	L465	N675	N592	N169		LATH	Beam	None	GEN_WO...	Typical
466	L466	N592	N528	N169		LATH	Beam	None	GEN_WO...	Typical
467	L467	N528	N108	N169		LATH	Beam	None	GEN_WO...	Typical
468	L468	N108	N426	N169		LATH	Beam	None	GEN_WO...	Typical
469	L469	N801	N360	N169		LATH	Beam	None	GEN_WO...	Typical
470	L470	N360	N676	N169		LATH	Beam	None	GEN_WO...	Typical
471	L471	N676	N593	N169		LATH	Beam	None	GEN_WO...	Typical
472	L472	N593	N277	N169		LATH	Beam	None	GEN_WO...	Typical
473	L473	N277	N487	N169		LATH	Beam	None	GEN_WO...	Typical
474	L474	N487	N427	N169		LATH	Beam	None	GEN_WO...	Typical
475	L475	N802	N738	N169		LATH	Beam	None	GEN_WO...	Typical
476	L476	N738	N677	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
477	L477	N677	N594	N169		LATH	Beam	None	GEN_WO...	Typical
478	L478	N594	N529	N169		LATH	Beam	None	GEN_WO...	Typical
479	L479	N529	N109	N169		LATH	Beam	None	GEN_WO...	Typical
480	L480	N109	N428	N169		LATH	Beam	None	GEN_WO...	Typical
481	L481	N803	N361	N169		LATH	Beam	None	GEN_WO...	Typical
482	L482	N361	N678	N169		LATH	Beam	None	GEN_WO...	Typical
483	L483	N678	N595	N169		LATH	Beam	None	GEN_WO...	Typical
484	L484	N595	N278	N169		LATH	Beam	None	GEN_WO...	Typical
485	L485	N278	N488	N169		LATH	Beam	None	GEN_WO...	Typical
486	L486	N488	N429	N169		LATH	Beam	None	GEN_WO...	Typical
487	L487	N804	N739	N169		LATH	Beam	None	GEN_WO...	Typical
488	L488	N739	N679	N169		LATH	Beam	None	GEN_WO...	Typical
489	L489	N679	N596	N169		LATH	Beam	None	GEN_WO...	Typical
490	L490	N596	N530	N169		LATH	Beam	None	GEN_WO...	Typical
491	L491	N530	N110	N169		LATH	Beam	None	GEN_WO...	Typical
492	L492	N110	N430	N169		LATH	Beam	None	GEN_WO...	Typical
493	L493	N805	N362	N169		LATH	Beam	None	GEN_WO...	Typical
494	L494	N362	N680	N169		LATH	Beam	None	GEN_WO...	Typical
495	L495	N680	N597	N169		LATH	Beam	None	GEN_WO...	Typical
496	L496	N597	N279	N169		LATH	Beam	None	GEN_WO...	Typical
497	L497	N279	N489	N169		LATH	Beam	None	GEN_WO...	Typical
498	L498	N489	N431	N169		LATH	Beam	None	GEN_WO...	Typical
499	L499	N806	N740	N169		LATH	Beam	None	GEN_WO...	Typical
500	L500	N740	N681	N169		LATH	Beam	None	GEN_WO...	Typical
501	L501	N681	N598	N169		LATH	Beam	None	GEN_WO...	Typical
502	L502	N598	N531	N169		LATH	Beam	None	GEN_WO...	Typical
503	L503	N531	N111	N169		LATH	Beam	None	GEN_WO...	Typical
504	L504	N111	N432	N169		LATH	Beam	None	GEN_WO...	Typical
505	L505	N807	N363	N169		LATH	Beam	None	GEN_WO...	Typical
506	L506	N363	N682	N169		LATH	Beam	None	GEN_WO...	Typical
507	L507	N682	N599	N169		LATH	Beam	None	GEN_WO...	Typical
508	L508	N599	N280	N169		LATH	Beam	None	GEN_WO...	Typical
509	L509	N280	N490	N169		LATH	Beam	None	GEN_WO...	Typical
510	L510	N490	N433	N169		LATH	Beam	None	GEN_WO...	Typical
511	L511	N808	N741	N169		LATH	Beam	None	GEN_WO...	Typical
512	L512	N741	N683	N169		LATH	Beam	None	GEN_WO...	Typical
513	L513	N683	N600	N169		LATH	Beam	None	GEN_WO...	Typical
514	L514	N600	N532	N169		LATH	Beam	None	GEN_WO...	Typical
515	L515	N532	N112	N169		LATH	Beam	None	GEN_WO...	Typical
516	L516	N112	N434	N169		LATH	Beam	None	GEN_WO...	Typical
517	L517	N809	N364	N169		LATH	Beam	None	GEN_WO...	Typical
518	L518	N364	N684	N169		LATH	Beam	None	GEN_WO...	Typical
519	L519	N684	N601	N169		LATH	Beam	None	GEN_WO...	Typical
520	L520	N601	N281	N169		LATH	Beam	None	GEN_WO...	Typical
521	L521	N281	N491	N169		LATH	Beam	None	GEN_WO...	Typical
522	L522	N491	N435	N169		LATH	Beam	None	GEN_WO...	Typical
523	L523	N810	N742	N169		LATH	Beam	None	GEN_WO...	Typical
524	L524	N742	N685	N169		LATH	Beam	None	GEN_WO...	Typical
525	L525	N685	N602	N169		LATH	Beam	None	GEN_WO...	Typical
526	L526	N602	N533	N169		LATH	Beam	None	GEN_WO...	Typical
527	L527	N533	N113	N169		LATH	Beam	None	GEN_WO...	Typical
528	L528	N113	N436	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
529	L529	N811	N365	N169		LATH	Beam	None	GEN_WO...	Typical
530	L530	N365	N686	N169		LATH	Beam	None	GEN_WO...	Typical
531	L531	N686	N603	N169		LATH	Beam	None	GEN_WO...	Typical
532	L532	N603	N282	N169		LATH	Beam	None	GEN_WO...	Typical
533	L533	N282	N492	N169		LATH	Beam	None	GEN_WO...	Typical
534	L534	N492	N437	N169		LATH	Beam	None	GEN_WO...	Typical
535	L535	N812	N743	N169		LATH	Beam	None	GEN_WO...	Typical
536	L536	N743	N687	N169		LATH	Beam	None	GEN_WO...	Typical
537	L537	N687	N604	N169		LATH	Beam	None	GEN_WO...	Typical
538	L538	N604	N534	N169		LATH	Beam	None	GEN_WO...	Typical
539	L539	N534	N114	N169		LATH	Beam	None	GEN_WO...	Typical
540	L540	N114	N438	N169		LATH	Beam	None	GEN_WO...	Typical
541	L541	N813	N366	N169		LATH	Beam	None	GEN_WO...	Typical
542	L542	N366	N688	N169		LATH	Beam	None	GEN_WO...	Typical
543	L543	N688	N605	N169		LATH	Beam	None	GEN_WO...	Typical
544	L544	N605	N283	N169		LATH	Beam	None	GEN_WO...	Typical
545	L545	N283	N493	N169		LATH	Beam	None	GEN_WO...	Typical
546	L546	N493	N439	N169		LATH	Beam	None	GEN_WO...	Typical
547	L547	N814	N744	N169		LATH	Beam	None	GEN_WO...	Typical
548	L548	N744	N689	N169		LATH	Beam	None	GEN_WO...	Typical
549	L549	N689	N606	N169		LATH	Beam	None	GEN_WO...	Typical
550	L550	N606	N535	N169		LATH	Beam	None	GEN_WO...	Typical
551	L551	N535	N115	N169		LATH	Beam	None	GEN_WO...	Typical
552	L552	N115	N440	N169		LATH	Beam	None	GEN_WO...	Typical
553	L553	N815	N367	N169		LATH	Beam	None	GEN_WO...	Typical
554	L554	N367	N690	N169		LATH	Beam	None	GEN_WO...	Typical
555	L555	N690	N607	N169		LATH	Beam	None	GEN_WO...	Typical
556	L556	N607	N284	N169		LATH	Beam	None	GEN_WO...	Typical
557	L557	N284	N494	N169		LATH	Beam	None	GEN_WO...	Typical
558	L558	N494	N441	N169		LATH	Beam	None	GEN_WO...	Typical
559	L559	N816	N745	N169		LATH	Beam	None	GEN_WO...	Typical
560	L560	N745	N691	N169		LATH	Beam	None	GEN_WO...	Typical
561	L561	N691	N608	N169		LATH	Beam	None	GEN_WO...	Typical
562	L562	N608	N536	N169		LATH	Beam	None	GEN_WO...	Typical
563	L563	N536	N116	N169		LATH	Beam	None	GEN_WO...	Typical
564	L564	N116	N442	N169		LATH	Beam	None	GEN_WO...	Typical
565	L565	N817	N368	N169		LATH	Beam	None	GEN_WO...	Typical
566	L566	N368	N692	N169		LATH	Beam	None	GEN_WO...	Typical
567	L567	N692	N609	N169		LATH	Beam	None	GEN_WO...	Typical
568	L568	N609	N285	N169		LATH	Beam	None	GEN_WO...	Typical
569	L569	N285	N495	N169		LATH	Beam	None	GEN_WO...	Typical
570	L570	N495	N443	N169		LATH	Beam	None	GEN_WO...	Typical
571	L571	N818	N746	N169		LATH	Beam	None	GEN_WO...	Typical
572	L572	N746	N693	N169		LATH	Beam	None	GEN_WO...	Typical
573	L573	N693	N610	N169		LATH	Beam	None	GEN_WO...	Typical
574	L574	N610	N537	N169		LATH	Beam	None	GEN_WO...	Typical
575	L575	N537	N117	N169		LATH	Beam	None	GEN_WO...	Typical
576	L576	N117	N444	N169		LATH	Beam	None	GEN_WO...	Typical
577	L577	N819	N369	N169		LATH	Beam	None	GEN_WO...	Typical
578	L578	N369	N694	N169		LATH	Beam	None	GEN_WO...	Typical
579	L579	N694	N611	N169		LATH	Beam	None	GEN_WO...	Typical
580	L580	N611	N286	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
581	L581	N286	N496	N169		LATH	Beam	None	GEN_WO...	Typical
582	L582	N496	N445	N169		LATH	Beam	None	GEN_WO...	Typical
583	L583	N820	N747	N169		LATH	Beam	None	GEN_WO...	Typical
584	L584	N747	N695	N169		LATH	Beam	None	GEN_WO...	Typical
585	L585	N695	N612	N169		LATH	Beam	None	GEN_WO...	Typical
586	L586	N612	N538	N169		LATH	Beam	None	GEN_WO...	Typical
587	L587	N538	N118	N169		LATH	Beam	None	GEN_WO...	Typical
588	L588	N118	N446	N169		LATH	Beam	None	GEN_WO...	Typical
589	L589	N821	N370	N169		LATH	Beam	None	GEN_WO...	Typical
590	L590	N370	N696	N169		LATH	Beam	None	GEN_WO...	Typical
591	L591	N696	N613	N169		LATH	Beam	None	GEN_WO...	Typical
592	L592	N613	N287	N169		LATH	Beam	None	GEN_WO...	Typical
593	L593	N287	N497	N169		LATH	Beam	None	GEN_WO...	Typical
594	L594	N497	N447	N169		LATH	Beam	None	GEN_WO...	Typical
595	L595	N822	N748	N169		LATH	Beam	None	GEN_WO...	Typical
596	L596	N748	N697	N169		LATH	Beam	None	GEN_WO...	Typical
597	L597	N697	N614	N169		LATH	Beam	None	GEN_WO...	Typical
598	L598	N614	N539	N169		LATH	Beam	None	GEN_WO...	Typical
599	L599	N539	N119	N169		LATH	Beam	None	GEN_WO...	Typical
600	L600	N119	N448	N169		LATH	Beam	None	GEN_WO...	Typical
601	L601	N823	N371	N169		LATH	Beam	None	GEN_WO...	Typical
602	L602	N371	N698	N169		LATH	Beam	None	GEN_WO...	Typical
603	L603	N698	N615	N169		LATH	Beam	None	GEN_WO...	Typical
604	L604	N615	N288	N169		LATH	Beam	None	GEN_WO...	Typical
605	L605	N288	N498	N169		LATH	Beam	None	GEN_WO...	Typical
606	L606	N498	N449	N169		LATH	Beam	None	GEN_WO...	Typical
607	L607	N824	N749	N169		LATH	Beam	None	GEN_WO...	Typical
608	L608	N749	N699	N169		LATH	Beam	None	GEN_WO...	Typical
609	L609	N699	N616	N169		LATH	Beam	None	GEN_WO...	Typical
610	L610	N616	N540	N169		LATH	Beam	None	GEN_WO...	Typical
611	L611	N540	N120	N169		LATH	Beam	None	GEN_WO...	Typical
612	L612	N120	N450	N169		LATH	Beam	None	GEN_WO...	Typical
613	L613	N825	N372	N169		LATH	Beam	None	GEN_WO...	Typical
614	L614	N372	N700	N169		LATH	Beam	None	GEN_WO...	Typical
615	L615	N700	N617	N169		LATH	Beam	None	GEN_WO...	Typical
616	L616	N617	N289	N169		LATH	Beam	None	GEN_WO...	Typical
617	L617	N289	N499	N169		LATH	Beam	None	GEN_WO...	Typical
618	L618	N499	N451	N169		LATH	Beam	None	GEN_WO...	Typical
619	L619	N826	N750	N169		LATH	Beam	None	GEN_WO...	Typical
620	L620	N750	N701	N169		LATH	Beam	None	GEN_WO...	Typical
621	L621	N701	N618	N169		LATH	Beam	None	GEN_WO...	Typical
622	L622	N618	N541	N169		LATH	Beam	None	GEN_WO...	Typical
623	L623	N541	N121	N169		LATH	Beam	None	GEN_WO...	Typical
624	L624	N121	N452	N169		LATH	Beam	None	GEN_WO...	Typical
625	L625	N827	N373	N169		LATH	Beam	None	GEN_WO...	Typical
626	L626	N373	N702	N169		LATH	Beam	None	GEN_WO...	Typical
627	L627	N702	N619	N169		LATH	Beam	None	GEN_WO...	Typical
628	L628	N619	N290	N169		LATH	Beam	None	GEN_WO...	Typical
629	L629	N290	N500	N169		LATH	Beam	None	GEN_WO...	Typical
630	L630	N500	N453	N169		LATH	Beam	None	GEN_WO...	Typical
631	L631	N828	N751	N169		LATH	Beam	None	GEN_WO...	Typical
632	L632	N751	N703	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
633	L633	N703	N620	N169		LATH	Beam	None	GEN_WO...	Typical
634	L634	N620	N542	N169		LATH	Beam	None	GEN_WO...	Typical
635	L635	N542	N122	N169		LATH	Beam	None	GEN_WO...	Typical
636	L636	N122	N454	N169		LATH	Beam	None	GEN_WO...	Typical
637	L637	N829	N374	N169		LATH	Beam	None	GEN_WO...	Typical
638	L638	N374	N704	N169		LATH	Beam	None	GEN_WO...	Typical
639	L639	N704	N621	N169		LATH	Beam	None	GEN_WO...	Typical
640	L640	N621	N291	N169		LATH	Beam	None	GEN_WO...	Typical
641	L641	N291	N501	N169		LATH	Beam	None	GEN_WO...	Typical
642	L642	N501	N455	N169		LATH	Beam	None	GEN_WO...	Typical
643	L643	N830	N752	N169		LATH	Beam	None	GEN_WO...	Typical
644	L644	N752	N705	N169		LATH	Beam	None	GEN_WO...	Typical
645	L645	N705	N622	N169		LATH	Beam	None	GEN_WO...	Typical
646	L646	N622	N543	N169		LATH	Beam	None	GEN_WO...	Typical
647	L647	N543	N123	N169		LATH	Beam	None	GEN_WO...	Typical
648	L648	N123	N456	N169		LATH	Beam	None	GEN_WO...	Typical
649	L649	N831	N375	N169		LATH	Beam	None	GEN_WO...	Typical
650	L650	N375	N706	N169		LATH	Beam	None	GEN_WO...	Typical
651	L651	N706	N623	N169		LATH	Beam	None	GEN_WO...	Typical
652	L652	N623	N292	N169		LATH	Beam	None	GEN_WO...	Typical
653	L653	N292	N502	N169		LATH	Beam	None	GEN_WO...	Typical
654	L654	N502	N457	N169		LATH	Beam	None	GEN_WO...	Typical
655	L655	N832	N753	N169		LATH	Beam	None	GEN_WO...	Typical
656	L656	N753	N707	N169		LATH	Beam	None	GEN_WO...	Typical
657	L657	N707	N624	N169		LATH	Beam	None	GEN_WO...	Typical
658	L658	N624	N544	N169		LATH	Beam	None	GEN_WO...	Typical
659	L659	N544	N124	N169		LATH	Beam	None	GEN_WO...	Typical
660	L660	N124	N458	N169		LATH	Beam	None	GEN_WO...	Typical
661	L661	N833	N376	N169		LATH	Beam	None	GEN_WO...	Typical
662	L662	N376	N708	N169		LATH	Beam	None	GEN_WO...	Typical
663	L663	N708	N625	N169		LATH	Beam	None	GEN_WO...	Typical
664	L664	N625	N293	N169		LATH	Beam	None	GEN_WO...	Typical
665	L665	N293	N503	N169		LATH	Beam	None	GEN_WO...	Typical
666	L666	N503	N459	N169		LATH	Beam	None	GEN_WO...	Typical
667	L667	N834	N754	N169		LATH	Beam	None	GEN_WO...	Typical
668	L668	N754	N709	N169		LATH	Beam	None	GEN_WO...	Typical
669	L669	N709	N626	N169		LATH	Beam	None	GEN_WO...	Typical
670	L670	N626	N545	N169		LATH	Beam	None	GEN_WO...	Typical
671	L671	N545	N125	N169		LATH	Beam	None	GEN_WO...	Typical
672	L672	N125	N460	N169		LATH	Beam	None	GEN_WO...	Typical
673	L673	N835	N377	N169		LATH	Beam	None	GEN_WO...	Typical
674	L674	N377	N710	N169		LATH	Beam	None	GEN_WO...	Typical
675	L675	N710	N627	N169		LATH	Beam	None	GEN_WO...	Typical
676	L676	N627	N294	N169		LATH	Beam	None	GEN_WO...	Typical
677	L677	N294	N504	N169		LATH	Beam	None	GEN_WO...	Typical
678	L678	N504	N461	N169		LATH	Beam	None	GEN_WO...	Typical
679	L679	N836	N755	N169		LATH	Beam	None	GEN_WO...	Typical
680	L680	N755	N711	N169		LATH	Beam	None	GEN_WO...	Typical
681	L681	N711	N628	N169		LATH	Beam	None	GEN_WO...	Typical
682	L682	N628	N546	N169		LATH	Beam	None	GEN_WO...	Typical
683	L683	N546	N126	N169		LATH	Beam	None	GEN_WO...	Typical
684	L684	N126	N462	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
685	L685	N837	N378	N169		LATH	Beam	None	GEN_WO...	Typical
686	L686	N378	N712	N169		LATH	Beam	None	GEN_WO...	Typical
687	L687	N712	N629	N169		LATH	Beam	None	GEN_WO...	Typical
688	L688	N629	N295	N169		LATH	Beam	None	GEN_WO...	Typical
689	L689	N295	N505	N169		LATH	Beam	None	GEN_WO...	Typical
690	L690	N505	N463	N169		LATH	Beam	None	GEN_WO...	Typical
691	L691	N838	N756	N169		LATH	Beam	None	GEN_WO...	Typical
692	L692	N756	N713	N169		LATH	Beam	None	GEN_WO...	Typical
693	L693	N713	N630	N169		LATH	Beam	None	GEN_WO...	Typical
694	L694	N630	N547	N169		LATH	Beam	None	GEN_WO...	Typical
695	L695	N547	N85	N169		LATH	Beam	None	GEN_WO...	Typical
696	L696	N85	N380	N169		LATH	Beam	None	GEN_WO...	Typical
697	L697	N839	N379	N169		LATH	Beam	None	GEN_WO...	Typical
698	L698	N379	N714	N169		LATH	Beam	None	GEN_WO...	Typical
699	L699	N714	N631	N169		LATH	Beam	None	GEN_WO...	Typical
700	L700	N631	N254	N169		LATH	Beam	None	GEN_WO...	Typical
701	L701	N254	N464	N169		LATH	Beam	None	GEN_WO...	Typical
702	L702	N464	N381	N169		LATH	Beam	None	GEN_WO...	Typical
703	L703	N840	N757	N169		LATH	Beam	None	GEN_WO...	Typical
704	L704	N757	N715	N169		LATH	Beam	None	GEN_WO...	Typical
705	L705	N715	N548	N169		LATH	Beam	None	GEN_WO...	Typical
706	L706	N548	N506	N169		LATH	Beam	None	GEN_WO...	Typical
707	L707	N506	N86	N169		LATH	Beam	None	GEN_WO...	Typical
708	L708	N86	N382	N169		LATH	Beam	None	GEN_WO...	Typical
709	L709	N841	N338	N169		LATH	Beam	None	GEN_WO...	Typical
710	L710	N338	N632	N169		LATH	Beam	None	GEN_WO...	Typical
711	L711	N632	N549	N169		LATH	Beam	None	GEN_WO...	Typical
712	L712	N549	N255	N169		LATH	Beam	None	GEN_WO...	Typical
713	L713	N255	N465	N169		LATH	Beam	None	GEN_WO...	Typical
714	L714	N465	N383	N169		LATH	Beam	None	GEN_WO...	Typical
715	L715	N758	N338	N169		LATH	Beam	None	GEN_WO...	Typical
716	L716	N338	N715	N169		LATH	Beam	None	GEN_WO...	Typical
717	L717	N715	N630	N169		LATH	Beam	None	GEN_WO...	Typical
718	L718	N630	N295	N169		LATH	Beam	None	GEN_WO...	Typical
719	L719	N295	N504	N169		LATH	Beam	None	GEN_WO...	Typical
720	L720	N504	N460	N169		LATH	Beam	None	GEN_WO...	Typical
721	L721	N759	N716	N169		LATH	Beam	None	GEN_WO...	Typical
722	L722	N716	N632	N169		LATH	Beam	None	GEN_WO...	Typical
723	L723	N632	N631	N169		LATH	Beam	None	GEN_WO...	Typical
724	L724	N631	N547	N169		LATH	Beam	None	GEN_WO...	Typical
725	L725	N547	N126	N169		LATH	Beam	None	GEN_WO...	Typical
726	L726	N126	N461	N169		LATH	Beam	None	GEN_WO...	Typical
727	L727	N760	N339	N169		LATH	Beam	None	GEN_WO...	Typical
728	L728	N339	N633	N169		LATH	Beam	None	GEN_WO...	Typical
729	L729	N633	N548	N169		LATH	Beam	None	GEN_WO...	Typical
730	L730	N548	N254	N169		LATH	Beam	None	GEN_WO...	Typical
731	L731	N254	N505	N169		LATH	Beam	None	GEN_WO...	Typical
732	L732	N505	N462	N169		LATH	Beam	None	GEN_WO...	Typical
733	L733	N761	N717	N169		LATH	Beam	None	GEN_WO...	Typical
734	L734	N717	N634	N169		LATH	Beam	None	GEN_WO...	Typical
735	L735	N634	N549	N169		LATH	Beam	None	GEN_WO...	Typical
736	L736	N549	N506	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
737	L737	N506	N85	N169		LATH	Beam	None	GEN_WO...	Typical
738	L738	N85	N463	N169		LATH	Beam	None	GEN_WO...	Typical
739	L739	N762	N340	N169		LATH	Beam	None	GEN_WO...	Typical
740	L740	N340	N635	N169		LATH	Beam	None	GEN_WO...	Typical
741	L741	N635	N550	N169		LATH	Beam	None	GEN_WO...	Typical
742	L742	N550	N255	N169		LATH	Beam	None	GEN_WO...	Typical
743	L743	N255	N464	N169		LATH	Beam	None	GEN_WO...	Typical
744	L744	N464	N380	N169		LATH	Beam	None	GEN_WO...	Typical
745	L745	N763	N718	N169		LATH	Beam	None	GEN_WO...	Typical
746	L746	N718	N636	N169		LATH	Beam	None	GEN_WO...	Typical
747	L747	N636	N551	N169		LATH	Beam	None	GEN_WO...	Typical
748	L748	N551	N507	N169		LATH	Beam	None	GEN_WO...	Typical
749	L749	N507	N86	N169		LATH	Beam	None	GEN_WO...	Typical
750	L750	N86	N381	N169		LATH	Beam	None	GEN_WO...	Typical
751	L751	N764	N341	N169		LATH	Beam	None	GEN_WO...	Typical
752	L752	N341	N637	N169		LATH	Beam	None	GEN_WO...	Typical
753	L753	N637	N552	N169		LATH	Beam	None	GEN_WO...	Typical
754	L754	N552	N256	N169		LATH	Beam	None	GEN_WO...	Typical
755	L755	N256	N465	N169		LATH	Beam	None	GEN_WO...	Typical
756	L756	N465	N382	N169		LATH	Beam	None	GEN_WO...	Typical
757	L757	N765	N719	N169		LATH	Beam	None	GEN_WO...	Typical
758	L758	N719	N638	N169		LATH	Beam	None	GEN_WO...	Typical
759	L759	N638	N553	N169		LATH	Beam	None	GEN_WO...	Typical
760	L760	N553	N508	N169		LATH	Beam	None	GEN_WO...	Typical
761	L761	N508	N87	N169		LATH	Beam	None	GEN_WO...	Typical
762	L762	N87	N383	N169		LATH	Beam	None	GEN_WO...	Typical
763	L763	N766	N342	N169		LATH	Beam	None	GEN_WO...	Typical
764	L764	N342	N639	N169		LATH	Beam	None	GEN_WO...	Typical
765	L765	N639	N554	N169		LATH	Beam	None	GEN_WO...	Typical
766	L766	N554	N257	N169		LATH	Beam	None	GEN_WO...	Typical
767	L767	N257	N466	N169		LATH	Beam	None	GEN_WO...	Typical
768	L768	N466	N384	N169		LATH	Beam	None	GEN_WO...	Typical
769	L769	N767	N720	N169		LATH	Beam	None	GEN_WO...	Typical
770	L770	N720	N640	N169		LATH	Beam	None	GEN_WO...	Typical
771	L771	N640	N555	N169		LATH	Beam	None	GEN_WO...	Typical
772	L772	N555	N509	N169		LATH	Beam	None	GEN_WO...	Typical
773	L773	N509	N88	N169		LATH	Beam	None	GEN_WO...	Typical
774	L774	N88	N385	N169		LATH	Beam	None	GEN_WO...	Typical
775	L775	N768	N343	N169		LATH	Beam	None	GEN_WO...	Typical
776	L776	N343	N641	N169		LATH	Beam	None	GEN_WO...	Typical
777	L777	N641	N556	N169		LATH	Beam	None	GEN_WO...	Typical
778	L778	N556	N258	N169		LATH	Beam	None	GEN_WO...	Typical
779	L779	N258	N467	N169		LATH	Beam	None	GEN_WO...	Typical
780	L780	N467	N386	N169		LATH	Beam	None	GEN_WO...	Typical
781	L781	N769	N721	N169		LATH	Beam	None	GEN_WO...	Typical
782	L782	N721	N642	N169		LATH	Beam	None	GEN_WO...	Typical
783	L783	N642	N557	N169		LATH	Beam	None	GEN_WO...	Typical
784	L784	N557	N510	N169		LATH	Beam	None	GEN_WO...	Typical
785	L785	N510	N89	N169		LATH	Beam	None	GEN_WO...	Typical
786	L786	N89	N387	N169		LATH	Beam	None	GEN_WO...	Typical
787	L787	N770	N344	N169		LATH	Beam	None	GEN_WO...	Typical
788	L788	N344	N643	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
789	L789	N643	N558	N169		LATH	Beam	None	GEN_WO...	Typical
790	L790	N558	N259	N169		LATH	Beam	None	GEN_WO...	Typical
791	L791	N259	N468	N169		LATH	Beam	None	GEN_WO...	Typical
792	L792	N468	N388	N169		LATH	Beam	None	GEN_WO...	Typical
793	L793	N771	N722	N169		LATH	Beam	None	GEN_WO...	Typical
794	L794	N722	N644	N169		LATH	Beam	None	GEN_WO...	Typical
795	L795	N644	N559	N169		LATH	Beam	None	GEN_WO...	Typical
796	L796	N559	N511	N169		LATH	Beam	None	GEN_WO...	Typical
797	L797	N511	N90	N169		LATH	Beam	None	GEN_WO...	Typical
798	L798	N90	N389	N169		LATH	Beam	None	GEN_WO...	Typical
799	L799	N772	N345	N169		LATH	Beam	None	GEN_WO...	Typical
800	L800	N345	N645	N169		LATH	Beam	None	GEN_WO...	Typical
801	L801	N645	N560	N169		LATH	Beam	None	GEN_WO...	Typical
802	L802	N560	N260	N169		LATH	Beam	None	GEN_WO...	Typical
803	L803	N260	N469	N169		LATH	Beam	None	GEN_WO...	Typical
804	L804	N469	N390	N169		LATH	Beam	None	GEN_WO...	Typical
805	L805	N773	N723	N169		LATH	Beam	None	GEN_WO...	Typical
806	L806	N723	N646	N169		LATH	Beam	None	GEN_WO...	Typical
807	L807	N646	N561	N169		LATH	Beam	None	GEN_WO...	Typical
808	L808	N561	N512	N169		LATH	Beam	None	GEN_WO...	Typical
809	L809	N512	N91	N169		LATH	Beam	None	GEN_WO...	Typical
810	L810	N91	N391	N169		LATH	Beam	None	GEN_WO...	Typical
811	L811	N774	N346	N169		LATH	Beam	None	GEN_WO...	Typical
812	L812	N346	N647	N169		LATH	Beam	None	GEN_WO...	Typical
813	L813	N647	N562	N169		LATH	Beam	None	GEN_WO...	Typical
814	L814	N562	N261	N169		LATH	Beam	None	GEN_WO...	Typical
815	L815	N261	N470	N169		LATH	Beam	None	GEN_WO...	Typical
816	L816	N470	N392	N169		LATH	Beam	None	GEN_WO...	Typical
817	L817	N775	N724	N169		LATH	Beam	None	GEN_WO...	Typical
818	L818	N724	N648	N169		LATH	Beam	None	GEN_WO...	Typical
819	L819	N648	N563	N169		LATH	Beam	None	GEN_WO...	Typical
820	L820	N563	N513	N169		LATH	Beam	None	GEN_WO...	Typical
821	L821	N513	N92	N169		LATH	Beam	None	GEN_WO...	Typical
822	L822	N92	N393	N169		LATH	Beam	None	GEN_WO...	Typical
823	L823	N776	N347	N169		LATH	Beam	None	GEN_WO...	Typical
824	L824	N347	N649	N169		LATH	Beam	None	GEN_WO...	Typical
825	L825	N649	N564	N169		LATH	Beam	None	GEN_WO...	Typical
826	L826	N564	N262	N169		LATH	Beam	None	GEN_WO...	Typical
827	L827	N262	N471	N169		LATH	Beam	None	GEN_WO...	Typical
828	L828	N471	N394	N169		LATH	Beam	None	GEN_WO...	Typical
829	L829	N777	N725	N169		LATH	Beam	None	GEN_WO...	Typical
830	L830	N725	N650	N169		LATH	Beam	None	GEN_WO...	Typical
831	L831	N650	N565	N169		LATH	Beam	None	GEN_WO...	Typical
832	L832	N565	N514	N169		LATH	Beam	None	GEN_WO...	Typical
833	L833	N514	N93	N169		LATH	Beam	None	GEN_WO...	Typical
834	L834	N93	N395	N169		LATH	Beam	None	GEN_WO...	Typical
835	L835	N778	N348	N169		LATH	Beam	None	GEN_WO...	Typical
836	L836	N348	N651	N169		LATH	Beam	None	GEN_WO...	Typical
837	L837	N651	N566	N169		LATH	Beam	None	GEN_WO...	Typical
838	L838	N566	N263	N169		LATH	Beam	None	GEN_WO...	Typical
839	L839	N263	N472	N169		LATH	Beam	None	GEN_WO...	Typical
840	L840	N472	N396	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
841	L841	N779	N726	N169		LATH	Beam	None	GEN_WO...	Typical
842	L842	N726	N652	N169		LATH	Beam	None	GEN_WO...	Typical
843	L843	N652	N567	N169		LATH	Beam	None	GEN_WO...	Typical
844	L844	N567	N515	N169		LATH	Beam	None	GEN_WO...	Typical
845	L845	N515	N94	N169		LATH	Beam	None	GEN_WO...	Typical
846	L846	N94	N397	N169		LATH	Beam	None	GEN_WO...	Typical
847	L847	N780	N349	N169		LATH	Beam	None	GEN_WO...	Typical
848	L848	N349	N653	N169		LATH	Beam	None	GEN_WO...	Typical
849	L849	N653	N568	N169		LATH	Beam	None	GEN_WO...	Typical
850	L850	N568	N264	N169		LATH	Beam	None	GEN_WO...	Typical
851	L851	N264	N473	N169		LATH	Beam	None	GEN_WO...	Typical
852	L852	N473	N398	N169		LATH	Beam	None	GEN_WO...	Typical
853	L853	N781	N727	N169		LATH	Beam	None	GEN_WO...	Typical
854	L854	N727	N654	N169		LATH	Beam	None	GEN_WO...	Typical
855	L855	N654	N569	N169		LATH	Beam	None	GEN_WO...	Typical
856	L856	N569	N516	N169		LATH	Beam	None	GEN_WO...	Typical
857	L857	N516	N95	N169		LATH	Beam	None	GEN_WO...	Typical
858	L858	N95	N399	N169		LATH	Beam	None	GEN_WO...	Typical
859	L859	N782	N350	N169		LATH	Beam	None	GEN_WO...	Typical
860	L860	N350	N655	N169		LATH	Beam	None	GEN_WO...	Typical
861	L861	N655	N570	N169		LATH	Beam	None	GEN_WO...	Typical
862	L862	N570	N265	N169		LATH	Beam	None	GEN_WO...	Typical
863	L863	N265	N474	N169		LATH	Beam	None	GEN_WO...	Typical
864	L864	N474	N400	N169		LATH	Beam	None	GEN_WO...	Typical
865	L865	N783	N728	N169		LATH	Beam	None	GEN_WO...	Typical
866	L866	N728	N656	N169		LATH	Beam	None	GEN_WO...	Typical
867	L867	N656	N571	N169		LATH	Beam	None	GEN_WO...	Typical
868	L868	N571	N517	N169		LATH	Beam	None	GEN_WO...	Typical
869	L869	N517	N96	N169		LATH	Beam	None	GEN_WO...	Typical
870	L870	N96	N401	N169		LATH	Beam	None	GEN_WO...	Typical
871	L871	N784	N351	N169		LATH	Beam	None	GEN_WO...	Typical
872	L872	N351	N657	N169		LATH	Beam	None	GEN_WO...	Typical
873	L873	N657	N572	N169		LATH	Beam	None	GEN_WO...	Typical
874	L874	N572	N266	N169		LATH	Beam	None	GEN_WO...	Typical
875	L875	N266	N475	N169		LATH	Beam	None	GEN_WO...	Typical
876	L876	N475	N402	N169		LATH	Beam	None	GEN_WO...	Typical
877	L877	N785	N729	N169		LATH	Beam	None	GEN_WO...	Typical
878	L878	N729	N658	N169		LATH	Beam	None	GEN_WO...	Typical
879	L879	N658	N573	N169		LATH	Beam	None	GEN_WO...	Typical
880	L880	N573	N518	N169		LATH	Beam	None	GEN_WO...	Typical
881	L881	N518	N97	N169		LATH	Beam	None	GEN_WO...	Typical
882	L882	N97	N403	N169		LATH	Beam	None	GEN_WO...	Typical
883	L883	N786	N352	N169		LATH	Beam	None	GEN_WO...	Typical
884	L884	N352	N659	N169		LATH	Beam	None	GEN_WO...	Typical
885	L885	N659	N574	N169		LATH	Beam	None	GEN_WO...	Typical
886	L886	N574	N267	N169		LATH	Beam	None	GEN_WO...	Typical
887	L887	N267	N476	N169		LATH	Beam	None	GEN_WO...	Typical
888	L888	N476	N404	N169		LATH	Beam	None	GEN_WO...	Typical
889	L889	N787	N730	N169		LATH	Beam	None	GEN_WO...	Typical
890	L890	N730	N660	N169		LATH	Beam	None	GEN_WO...	Typical
891	L891	N660	N575	N169		LATH	Beam	None	GEN_WO...	Typical
892	L892	N575	N519	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
893	L893	N519	N98	N169		LATH	Beam	None	GEN_WO...	Typical
894	L894	N98	N405	N169		LATH	Beam	None	GEN_WO...	Typical
895	L895	N788	N353	N169		LATH	Beam	None	GEN_WO...	Typical
896	L896	N353	N661	N169		LATH	Beam	None	GEN_WO...	Typical
897	L897	N661	N576	N169		LATH	Beam	None	GEN_WO...	Typical
898	L898	N576	N268	N169		LATH	Beam	None	GEN_WO...	Typical
899	L899	N268	N477	N169		LATH	Beam	None	GEN_WO...	Typical
900	L900	N477	N406	N169		LATH	Beam	None	GEN_WO...	Typical
901	L901	N789	N731	N169		LATH	Beam	None	GEN_WO...	Typical
902	L902	N731	N662	N169		LATH	Beam	None	GEN_WO...	Typical
903	L903	N662	N577	N169		LATH	Beam	None	GEN_WO...	Typical
904	L904	N577	N520	N169		LATH	Beam	None	GEN_WO...	Typical
905	L905	N520	N99	N169		LATH	Beam	None	GEN_WO...	Typical
906	L906	N99	N407	N169		LATH	Beam	None	GEN_WO...	Typical
907	L907	N790	N354	N169		LATH	Beam	None	GEN_WO...	Typical
908	L908	N354	N663	N169		LATH	Beam	None	GEN_WO...	Typical
909	L909	N663	N578	N169		LATH	Beam	None	GEN_WO...	Typical
910	L910	N578	N269	N169		LATH	Beam	None	GEN_WO...	Typical
911	L911	N269	N478	N169		LATH	Beam	None	GEN_WO...	Typical
912	L912	N478	N408	N169		LATH	Beam	None	GEN_WO...	Typical
913	L913	N791	N732	N169		LATH	Beam	None	GEN_WO...	Typical
914	L914	N732	N664	N169		LATH	Beam	None	GEN_WO...	Typical
915	L915	N664	N579	N169		LATH	Beam	None	GEN_WO...	Typical
916	L916	N579	N521	N169		LATH	Beam	None	GEN_WO...	Typical
917	L917	N521	N100	N169		LATH	Beam	None	GEN_WO...	Typical
918	L918	N100	N409	N169		LATH	Beam	None	GEN_WO...	Typical
919	L919	N792	N355	N169		LATH	Beam	None	GEN_WO...	Typical
920	L920	N355	N665	N169		LATH	Beam	None	GEN_WO...	Typical
921	L921	N665	N580	N169		LATH	Beam	None	GEN_WO...	Typical
922	L922	N580	N270	N169		LATH	Beam	None	GEN_WO...	Typical
923	L923	N270	N479	N169		LATH	Beam	None	GEN_WO...	Typical
924	L924	N479	N410	N169		LATH	Beam	None	GEN_WO...	Typical
925	L925	N793	N733	N169		LATH	Beam	None	GEN_WO...	Typical
926	L926	N733	N666	N169		LATH	Beam	None	GEN_WO...	Typical
927	L927	N666	N581	N169		LATH	Beam	None	GEN_WO...	Typical
928	L928	N581	N522	N169		LATH	Beam	None	GEN_WO...	Typical
929	L929	N522	N101	N169		LATH	Beam	None	GEN_WO...	Typical
930	L930	N101	N411	N169		LATH	Beam	None	GEN_WO...	Typical
931	L931	N794	N356	N169		LATH	Beam	None	GEN_WO...	Typical
932	L932	N356	N667	N169		LATH	Beam	None	GEN_WO...	Typical
933	L933	N667	N582	N169		LATH	Beam	None	GEN_WO...	Typical
934	L934	N582	N271	N169		LATH	Beam	None	GEN_WO...	Typical
935	L935	N271	N480	N169		LATH	Beam	None	GEN_WO...	Typical
936	L936	N480	N412	N169		LATH	Beam	None	GEN_WO...	Typical
937	L937	N795	N734	N169		LATH	Beam	None	GEN_WO...	Typical
938	L938	N734	N668	N169		LATH	Beam	None	GEN_WO...	Typical
939	L939	N668	N583	N169		LATH	Beam	None	GEN_WO...	Typical
940	L940	N583	N523	N169		LATH	Beam	None	GEN_WO...	Typical
941	L941	N523	N102	N169		LATH	Beam	None	GEN_WO...	Typical
942	L942	N102	N413	N169		LATH	Beam	None	GEN_WO...	Typical
943	L943	N796	N357	N169		LATH	Beam	None	GEN_WO...	Typical
944	L944	N357	N669	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
945	L945	N669	N584	N169		LATH	Beam	None	GEN_WO...	Typical
946	L946	N584	N272	N169		LATH	Beam	None	GEN_WO...	Typical
947	L947	N272	N481	N169		LATH	Beam	None	GEN_WO...	Typical
948	L948	N481	N414	N169		LATH	Beam	None	GEN_WO...	Typical
949	L949	N797	N735	N169		LATH	Beam	None	GEN_WO...	Typical
950	L950	N735	N670	N169		LATH	Beam	None	GEN_WO...	Typical
951	L951	N670	N585	N169		LATH	Beam	None	GEN_WO...	Typical
952	L952	N585	N524	N169		LATH	Beam	None	GEN_WO...	Typical
953	L953	N524	N103	N169		LATH	Beam	None	GEN_WO...	Typical
954	L954	N103	N415	N169		LATH	Beam	None	GEN_WO...	Typical
955	L955	N798	N358	N169		LATH	Beam	None	GEN_WO...	Typical
956	L956	N358	N671	N169		LATH	Beam	None	GEN_WO...	Typical
957	L957	N671	N586	N169		LATH	Beam	None	GEN_WO...	Typical
958	L958	N586	N273	N169		LATH	Beam	None	GEN_WO...	Typical
959	L959	N273	N482	N169		LATH	Beam	None	GEN_WO...	Typical
960	L960	N482	N416	N169		LATH	Beam	None	GEN_WO...	Typical
961	L961	N799	N736	N169		LATH	Beam	None	GEN_WO...	Typical
962	L962	N736	N672	N169		LATH	Beam	None	GEN_WO...	Typical
963	L963	N672	N587	N169		LATH	Beam	None	GEN_WO...	Typical
964	L964	N587	N525	N169		LATH	Beam	None	GEN_WO...	Typical
965	L965	N525	N104	N169		LATH	Beam	None	GEN_WO...	Typical
966	L966	N104	N417	N169		LATH	Beam	None	GEN_WO...	Typical
967	L967	N800	N359	N169		LATH	Beam	None	GEN_WO...	Typical
968	L968	N359	N673	N169		LATH	Beam	None	GEN_WO...	Typical
969	L969	N673	N588	N169		LATH	Beam	None	GEN_WO...	Typical
970	L970	N588	N274	N169		LATH	Beam	None	GEN_WO...	Typical
971	L971	N274	N483	N169		LATH	Beam	None	GEN_WO...	Typical
972	L972	N483	N418	N169		LATH	Beam	None	GEN_WO...	Typical
973	L973	N801	N737	N169		LATH	Beam	None	GEN_WO...	Typical
974	L974	N737	N674	N169		LATH	Beam	None	GEN_WO...	Typical
975	L975	N674	N589	N169		LATH	Beam	None	GEN_WO...	Typical
976	L976	N589	N526	N169		LATH	Beam	None	GEN_WO...	Typical
977	L977	N526	N105	N169		LATH	Beam	None	GEN_WO...	Typical
978	L978	N105	N419	N169		LATH	Beam	None	GEN_WO...	Typical
979	L979	N802	N360	N169		LATH	Beam	None	GEN_WO...	Typical
980	L980	N360	N675	N169		LATH	Beam	None	GEN_WO...	Typical
981	L981	N675	N590	N169		LATH	Beam	None	GEN_WO...	Typical
982	L982	N590	N275	N169		LATH	Beam	None	GEN_WO...	Typical
983	L983	N275	N484	N169		LATH	Beam	None	GEN_WO...	Typical
984	L984	N484	N420	N169		LATH	Beam	None	GEN_WO...	Typical
985	L985	N803	N738	N169		LATH	Beam	None	GEN_WO...	Typical
986	L986	N738	N676	N169		LATH	Beam	None	GEN_WO...	Typical
987	L987	N676	N591	N169		LATH	Beam	None	GEN_WO...	Typical
988	L988	N591	N527	N169		LATH	Beam	None	GEN_WO...	Typical
989	L989	N527	N106	N169		LATH	Beam	None	GEN_WO...	Typical
990	L990	N106	N421	N169		LATH	Beam	None	GEN_WO...	Typical
991	L991	N804	N361	N169		LATH	Beam	None	GEN_WO...	Typical
992	L992	N361	N677	N169		LATH	Beam	None	GEN_WO...	Typical
993	L993	N677	N592	N169		LATH	Beam	None	GEN_WO...	Typical
994	L994	N592	N276	N169		LATH	Beam	None	GEN_WO...	Typical
995	L995	N276	N485	N169		LATH	Beam	None	GEN_WO...	Typical
996	L996	N485	N422	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
997	L997	N805	N739	N169		LATH	Beam	None	GEN_WO...	Typical
998	L998	N739	N678	N169		LATH	Beam	None	GEN_WO...	Typical
999	L999	N678	N593	N169		LATH	Beam	None	GEN_WO...	Typical
1000	L1000	N593	N528	N169		LATH	Beam	None	GEN_WO...	Typical
1001	L1001	N528	N107	N169		LATH	Beam	None	GEN_WO...	Typical
1002	L1002	N107	N423	N169		LATH	Beam	None	GEN_WO...	Typical
1003	L1003	N806	N362	N169		LATH	Beam	None	GEN_WO...	Typical
1004	L1004	N362	N679	N169		LATH	Beam	None	GEN_WO...	Typical
1005	L1005	N679	N594	N169		LATH	Beam	None	GEN_WO...	Typical
1006	L1006	N594	N277	N169		LATH	Beam	None	GEN_WO...	Typical
1007	L1007	N277	N486	N169		LATH	Beam	None	GEN_WO...	Typical
1008	L1008	N486	N424	N169		LATH	Beam	None	GEN_WO...	Typical
1009	L1009	N807	N740	N169		LATH	Beam	None	GEN_WO...	Typical
1010	L1010	N740	N680	N169		LATH	Beam	None	GEN_WO...	Typical
1011	L1011	N680	N595	N169		LATH	Beam	None	GEN_WO...	Typical
1012	L1012	N595	N529	N169		LATH	Beam	None	GEN_WO...	Typical
1013	L1013	N529	N108	N169		LATH	Beam	None	GEN_WO...	Typical
1014	L1014	N108	N425	N169		LATH	Beam	None	GEN_WO...	Typical
1015	L1015	N808	N363	N169		LATH	Beam	None	GEN_WO...	Typical
1016	L1016	N363	N681	N169		LATH	Beam	None	GEN_WO...	Typical
1017	L1017	N681	N596	N169		LATH	Beam	None	GEN_WO...	Typical
1018	L1018	N596	N278	N169		LATH	Beam	None	GEN_WO...	Typical
1019	L1019	N278	N487	N169		LATH	Beam	None	GEN_WO...	Typical
1020	L1020	N487	N426	N169		LATH	Beam	None	GEN_WO...	Typical
1021	L1021	N809	N741	N169		LATH	Beam	None	GEN_WO...	Typical
1022	L1022	N741	N682	N169		LATH	Beam	None	GEN_WO...	Typical
1023	L1023	N682	N597	N169		LATH	Beam	None	GEN_WO...	Typical
1024	L1024	N597	N530	N169		LATH	Beam	None	GEN_WO...	Typical
1025	L1025	N530	N109	N169		LATH	Beam	None	GEN_WO...	Typical
1026	L1026	N109	N427	N169		LATH	Beam	None	GEN_WO...	Typical
1027	L1027	N810	N364	N169		LATH	Beam	None	GEN_WO...	Typical
1028	L1028	N364	N683	N169		LATH	Beam	None	GEN_WO...	Typical
1029	L1029	N683	N598	N169		LATH	Beam	None	GEN_WO...	Typical
1030	L1030	N598	N279	N169		LATH	Beam	None	GEN_WO...	Typical
1031	L1031	N279	N488	N169		LATH	Beam	None	GEN_WO...	Typical
1032	L1032	N488	N428	N169		LATH	Beam	None	GEN_WO...	Typical
1033	L1033	N811	N742	N169		LATH	Beam	None	GEN_WO...	Typical
1034	L1034	N742	N684	N169		LATH	Beam	None	GEN_WO...	Typical
1035	L1035	N684	N599	N169		LATH	Beam	None	GEN_WO...	Typical
1036	L1036	N599	N531	N169		LATH	Beam	None	GEN_WO...	Typical
1037	L1037	N531	N110	N169		LATH	Beam	None	GEN_WO...	Typical
1038	L1038	N110	N429	N169		LATH	Beam	None	GEN_WO...	Typical
1039	L1039	N812	N365	N169		LATH	Beam	None	GEN_WO...	Typical
1040	L1040	N365	N685	N169		LATH	Beam	None	GEN_WO...	Typical
1041	L1041	N685	N600	N169		LATH	Beam	None	GEN_WO...	Typical
1042	L1042	N600	N280	N169		LATH	Beam	None	GEN_WO...	Typical
1043	L1043	N280	N489	N169		LATH	Beam	None	GEN_WO...	Typical
1044	L1044	N489	N430	N169		LATH	Beam	None	GEN_WO...	Typical
1045	L1045	N813	N743	N169		LATH	Beam	None	GEN_WO...	Typical
1046	L1046	N743	N686	N169		LATH	Beam	None	GEN_WO...	Typical
1047	L1047	N686	N601	N169		LATH	Beam	None	GEN_WO...	Typical
1048	L1048	N601	N532	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1049	L1049	N532	N111	N169		LATH	Beam	None	GEN_WO...	Typical
1050	L1050	N111	N431	N169		LATH	Beam	None	GEN_WO...	Typical
1051	L1051	N814	N366	N169		LATH	Beam	None	GEN_WO...	Typical
1052	L1052	N366	N687	N169		LATH	Beam	None	GEN_WO...	Typical
1053	L1053	N687	N602	N169		LATH	Beam	None	GEN_WO...	Typical
1054	L1054	N602	N281	N169		LATH	Beam	None	GEN_WO...	Typical
1055	L1055	N281	N490	N169		LATH	Beam	None	GEN_WO...	Typical
1056	L1056	N490	N432	N169		LATH	Beam	None	GEN_WO...	Typical
1057	L1057	N815	N744	N169		LATH	Beam	None	GEN_WO...	Typical
1058	L1058	N744	N688	N169		LATH	Beam	None	GEN_WO...	Typical
1059	L1059	N688	N603	N169		LATH	Beam	None	GEN_WO...	Typical
1060	L1060	N603	N533	N169		LATH	Beam	None	GEN_WO...	Typical
1061	L1061	N533	N112	N169		LATH	Beam	None	GEN_WO...	Typical
1062	L1062	N112	N433	N169		LATH	Beam	None	GEN_WO...	Typical
1063	L1063	N816	N367	N169		LATH	Beam	None	GEN_WO...	Typical
1064	L1064	N367	N689	N169		LATH	Beam	None	GEN_WO...	Typical
1065	L1065	N689	N604	N169		LATH	Beam	None	GEN_WO...	Typical
1066	L1066	N604	N282	N169		LATH	Beam	None	GEN_WO...	Typical
1067	L1067	N282	N491	N169		LATH	Beam	None	GEN_WO...	Typical
1068	L1068	N491	N434	N169		LATH	Beam	None	GEN_WO...	Typical
1069	L1069	N817	N745	N169		LATH	Beam	None	GEN_WO...	Typical
1070	L1070	N745	N690	N169		LATH	Beam	None	GEN_WO...	Typical
1071	L1071	N690	N605	N169		LATH	Beam	None	GEN_WO...	Typical
1072	L1072	N605	N534	N169		LATH	Beam	None	GEN_WO...	Typical
1073	L1073	N534	N113	N169		LATH	Beam	None	GEN_WO...	Typical
1074	L1074	N113	N435	N169		LATH	Beam	None	GEN_WO...	Typical
1075	L1075	N818	N368	N169		LATH	Beam	None	GEN_WO...	Typical
1076	L1076	N368	N691	N169		LATH	Beam	None	GEN_WO...	Typical
1077	L1077	N691	N606	N169		LATH	Beam	None	GEN_WO...	Typical
1078	L1078	N606	N283	N169		LATH	Beam	None	GEN_WO...	Typical
1079	L1079	N283	N492	N169		LATH	Beam	None	GEN_WO...	Typical
1080	L1080	N492	N436	N169		LATH	Beam	None	GEN_WO...	Typical
1081	L1081	N819	N746	N169		LATH	Beam	None	GEN_WO...	Typical
1082	L1082	N746	N692	N169		LATH	Beam	None	GEN_WO...	Typical
1083	L1083	N692	N607	N169		LATH	Beam	None	GEN_WO...	Typical
1084	L1084	N607	N535	N169		LATH	Beam	None	GEN_WO...	Typical
1085	L1085	N535	N114	N169		LATH	Beam	None	GEN_WO...	Typical
1086	L1086	N114	N437	N169		LATH	Beam	None	GEN_WO...	Typical
1087	L1087	N820	N369	N169		LATH	Beam	None	GEN_WO...	Typical
1088	L1088	N369	N693	N169		LATH	Beam	None	GEN_WO...	Typical
1089	L1089	N693	N608	N169		LATH	Beam	None	GEN_WO...	Typical
1090	L1090	N608	N284	N169		LATH	Beam	None	GEN_WO...	Typical
1091	L1091	N284	N493	N169		LATH	Beam	None	GEN_WO...	Typical
1092	L1092	N493	N438	N169		LATH	Beam	None	GEN_WO...	Typical
1093	L1093	N821	N747	N169		LATH	Beam	None	GEN_WO...	Typical
1094	L1094	N747	N694	N169		LATH	Beam	None	GEN_WO...	Typical
1095	L1095	N694	N609	N169		LATH	Beam	None	GEN_WO...	Typical
1096	L1096	N609	N536	N169		LATH	Beam	None	GEN_WO...	Typical
1097	L1097	N536	N115	N169		LATH	Beam	None	GEN_WO...	Typical
1098	L1098	N115	N439	N169		LATH	Beam	None	GEN_WO...	Typical
1099	L1099	N822	N370	N169		LATH	Beam	None	GEN_WO...	Typical
1100	L1100	N370	N695	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1101	L1101	N695	N610	N169		LATH	Beam	None	GEN_WO...	Typical
1102	L1102	N610	N285	N169		LATH	Beam	None	GEN_WO...	Typical
1103	L1103	N285	N494	N169		LATH	Beam	None	GEN_WO...	Typical
1104	L1104	N494	N440	N169		LATH	Beam	None	GEN_WO...	Typical
1105	L1105	N823	N748	N169		LATH	Beam	None	GEN_WO...	Typical
1106	L1106	N748	N696	N169		LATH	Beam	None	GEN_WO...	Typical
1107	L1107	N696	N611	N169		LATH	Beam	None	GEN_WO...	Typical
1108	L1108	N611	N537	N169		LATH	Beam	None	GEN_WO...	Typical
1109	L1109	N537	N116	N169		LATH	Beam	None	GEN_WO...	Typical
1110	L1110	N116	N441	N169		LATH	Beam	None	GEN_WO...	Typical
1111	L1111	N824	N371	N169		LATH	Beam	None	GEN_WO...	Typical
1112	L1112	N371	N697	N169		LATH	Beam	None	GEN_WO...	Typical
1113	L1113	N697	N612	N169		LATH	Beam	None	GEN_WO...	Typical
1114	L1114	N612	N286	N169		LATH	Beam	None	GEN_WO...	Typical
1115	L1115	N286	N495	N169		LATH	Beam	None	GEN_WO...	Typical
1116	L1116	N495	N442	N169		LATH	Beam	None	GEN_WO...	Typical
1117	L1117	N825	N749	N169		LATH	Beam	None	GEN_WO...	Typical
1118	L1118	N749	N698	N169		LATH	Beam	None	GEN_WO...	Typical
1119	L1119	N698	N613	N169		LATH	Beam	None	GEN_WO...	Typical
1120	L1120	N613	N538	N169		LATH	Beam	None	GEN_WO...	Typical
1121	L1121	N538	N117	N169		LATH	Beam	None	GEN_WO...	Typical
1122	L1122	N117	N443	N169		LATH	Beam	None	GEN_WO...	Typical
1123	L1123	N826	N372	N169		LATH	Beam	None	GEN_WO...	Typical
1124	L1124	N372	N699	N169		LATH	Beam	None	GEN_WO...	Typical
1125	L1125	N699	N614	N169		LATH	Beam	None	GEN_WO...	Typical
1126	L1126	N614	N287	N169		LATH	Beam	None	GEN_WO...	Typical
1127	L1127	N287	N496	N169		LATH	Beam	None	GEN_WO...	Typical
1128	L1128	N496	N444	N169		LATH	Beam	None	GEN_WO...	Typical
1129	L1129	N827	N750	N169		LATH	Beam	None	GEN_WO...	Typical
1130	L1130	N750	N700	N169		LATH	Beam	None	GEN_WO...	Typical
1131	L1131	N700	N615	N169		LATH	Beam	None	GEN_WO...	Typical
1132	L1132	N615	N539	N169		LATH	Beam	None	GEN_WO...	Typical
1133	L1133	N539	N118	N169		LATH	Beam	None	GEN_WO...	Typical
1134	L1134	N118	N445	N169		LATH	Beam	None	GEN_WO...	Typical
1135	L1135	N828	N373	N169		LATH	Beam	None	GEN_WO...	Typical
1136	L1136	N373	N701	N169		LATH	Beam	None	GEN_WO...	Typical
1137	L1137	N701	N616	N169		LATH	Beam	None	GEN_WO...	Typical
1138	L1138	N616	N288	N169		LATH	Beam	None	GEN_WO...	Typical
1139	L1139	N288	N497	N169		LATH	Beam	None	GEN_WO...	Typical
1140	L1140	N497	N446	N169		LATH	Beam	None	GEN_WO...	Typical
1141	L1141	N829	N751	N169		LATH	Beam	None	GEN_WO...	Typical
1142	L1142	N751	N702	N169		LATH	Beam	None	GEN_WO...	Typical
1143	L1143	N702	N617	N169		LATH	Beam	None	GEN_WO...	Typical
1144	L1144	N617	N540	N169		LATH	Beam	None	GEN_WO...	Typical
1145	L1145	N540	N119	N169		LATH	Beam	None	GEN_WO...	Typical
1146	L1146	N119	N447	N169		LATH	Beam	None	GEN_WO...	Typical
1147	L1147	N830	N374	N169		LATH	Beam	None	GEN_WO...	Typical
1148	L1148	N374	N703	N169		LATH	Beam	None	GEN_WO...	Typical
1149	L1149	N703	N618	N169		LATH	Beam	None	GEN_WO...	Typical
1150	L1150	N618	N289	N169		LATH	Beam	None	GEN_WO...	Typical
1151	L1151	N289	N498	N169		LATH	Beam	None	GEN_WO...	Typical
1152	L1152	N498	N448	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1153	L1153	N831	N752	N169		LATH	Beam	None	GEN_WO...	Typical
1154	L1154	N752	N704	N169		LATH	Beam	None	GEN_WO...	Typical
1155	L1155	N704	N619	N169		LATH	Beam	None	GEN_WO...	Typical
1156	L1156	N619	N541	N169		LATH	Beam	None	GEN_WO...	Typical
1157	L1157	N541	N120	N169		LATH	Beam	None	GEN_WO...	Typical
1158	L1158	N120	N449	N169		LATH	Beam	None	GEN_WO...	Typical
1159	L1159	N832	N375	N169		LATH	Beam	None	GEN_WO...	Typical
1160	L1160	N375	N705	N169		LATH	Beam	None	GEN_WO...	Typical
1161	L1161	N705	N620	N169		LATH	Beam	None	GEN_WO...	Typical
1162	L1162	N620	N290	N169		LATH	Beam	None	GEN_WO...	Typical
1163	L1163	N290	N499	N169		LATH	Beam	None	GEN_WO...	Typical
1164	L1164	N499	N450	N169		LATH	Beam	None	GEN_WO...	Typical
1165	L1165	N833	N753	N169		LATH	Beam	None	GEN_WO...	Typical
1166	L1166	N753	N706	N169		LATH	Beam	None	GEN_WO...	Typical
1167	L1167	N706	N621	N169		LATH	Beam	None	GEN_WO...	Typical
1168	L1168	N621	N542	N169		LATH	Beam	None	GEN_WO...	Typical
1169	L1169	N542	N121	N169		LATH	Beam	None	GEN_WO...	Typical
1170	L1170	N121	N451	N169		LATH	Beam	None	GEN_WO...	Typical
1171	L1171	N834	N376	N169		LATH	Beam	None	GEN_WO...	Typical
1172	L1172	N376	N707	N169		LATH	Beam	None	GEN_WO...	Typical
1173	L1173	N707	N622	N169		LATH	Beam	None	GEN_WO...	Typical
1174	L1174	N622	N291	N169		LATH	Beam	None	GEN_WO...	Typical
1175	L1175	N291	N500	N169		LATH	Beam	None	GEN_WO...	Typical
1176	L1176	N500	N452	N169		LATH	Beam	None	GEN_WO...	Typical
1177	L1177	N835	N754	N169		LATH	Beam	None	GEN_WO...	Typical
1178	L1178	N754	N708	N169		LATH	Beam	None	GEN_WO...	Typical
1179	L1179	N708	N623	N169		LATH	Beam	None	GEN_WO...	Typical
1180	L1180	N623	N543	N169		LATH	Beam	None	GEN_WO...	Typical
1181	L1181	N543	N122	N169		LATH	Beam	None	GEN_WO...	Typical
1182	L1182	N122	N453	N169		LATH	Beam	None	GEN_WO...	Typical
1183	L1183	N836	N377	N169		LATH	Beam	None	GEN_WO...	Typical
1184	L1184	N377	N709	N169		LATH	Beam	None	GEN_WO...	Typical
1185	L1185	N709	N624	N169		LATH	Beam	None	GEN_WO...	Typical
1186	L1186	N624	N292	N169		LATH	Beam	None	GEN_WO...	Typical
1187	L1187	N292	N501	N169		LATH	Beam	None	GEN_WO...	Typical
1188	L1188	N501	N454	N169		LATH	Beam	None	GEN_WO...	Typical
1189	L1189	N837	N755	N169		LATH	Beam	None	GEN_WO...	Typical
1190	L1190	N755	N710	N169		LATH	Beam	None	GEN_WO...	Typical
1191	L1191	N710	N625	N169		LATH	Beam	None	GEN_WO...	Typical
1192	L1192	N625	N544	N169		LATH	Beam	None	GEN_WO...	Typical
1193	L1193	N544	N123	N169		LATH	Beam	None	GEN_WO...	Typical
1194	L1194	N123	N455	N169		LATH	Beam	None	GEN_WO...	Typical
1195	L1195	N838	N378	N169		LATH	Beam	None	GEN_WO...	Typical
1196	L1196	N378	N711	N169		LATH	Beam	None	GEN_WO...	Typical
1197	L1197	N711	N626	N169		LATH	Beam	None	GEN_WO...	Typical
1198	L1198	N626	N293	N169		LATH	Beam	None	GEN_WO...	Typical
1199	L1199	N293	N502	N169		LATH	Beam	None	GEN_WO...	Typical
1200	L1200	N502	N456	N169		LATH	Beam	None	GEN_WO...	Typical
1201	L1201	N839	N756	N169		LATH	Beam	None	GEN_WO...	Typical
1202	L1202	N756	N712	N169		LATH	Beam	None	GEN_WO...	Typical
1203	L1203	N712	N627	N169		LATH	Beam	None	GEN_WO...	Typical
1204	L1204	N627	N545	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1205	L1205	N545	N124	N169		LATH	Beam	None	GEN_WO...	Typical
1206	L1206	N124	N457	N169		LATH	Beam	None	GEN_WO...	Typical
1207	L1207	N840	N379	N169		LATH	Beam	None	GEN_WO...	Typical
1208	L1208	N379	N713	N169		LATH	Beam	None	GEN_WO...	Typical
1209	L1209	N713	N628	N169		LATH	Beam	None	GEN_WO...	Typical
1210	L1210	N628	N294	N169		LATH	Beam	None	GEN_WO...	Typical
1211	L1211	N294	N503	N169		LATH	Beam	None	GEN_WO...	Typical
1212	L1212	N503	N458	N169		LATH	Beam	None	GEN_WO...	Typical
1213	L1213	N841	N757	N169		LATH	Beam	None	GEN_WO...	Typical
1214	L1214	N757	N714	N169		LATH	Beam	None	GEN_WO...	Typical
1215	L1215	N714	N629	N169		LATH	Beam	None	GEN_WO...	Typical
1216	L1216	N629	N546	N169		LATH	Beam	None	GEN_WO...	Typical
1217	L1217	N546	N125	N169		LATH	Beam	None	GEN_WO...	Typical
1218	L1218	N125	N459	N169		LATH	Beam	None	GEN_WO...	Typical
1219	CB1219	N758A	N716A			1/8 CABLE	Beam	None	A36	Typical
1220	CB1220	N716A	N759A			1/8 CABLE	Beam	None	A36	Typical
1221	CB1221	N759A	N717A			1/8 CABLE	Beam	None	A36	Typical
1222	CB1222	N717A	N760A			1/8 CABLE	Beam	None	A36	Typical
1223	CB1223	N760A	N718A			1/8 CABLE	Beam	None	A36	Typical
1224	CB1224	N718A	N761A			1/8 CABLE	Beam	None	A36	Typical
1225	CB1225	N761A	N719A			1/8 CABLE	Beam	None	A36	Typical
1226	CB1226	N719A	N762A			1/8 CABLE	Beam	None	A36	Typical
1227	CB1227	N762A	N720A			1/8 CABLE	Beam	None	A36	Typical
1228	CB1228	N720A	N763A			1/8 CABLE	Beam	None	A36	Typical
1229	CB1229	N763A	N721A			1/8 CABLE	Beam	None	A36	Typical
1230	CB1230	N721A	N764A			1/8 CABLE	Beam	None	A36	Typical
1231	CB1231	N764A	N722A			1/8 CABLE	Beam	None	A36	Typical
1232	CB1232	N722A	N765A			1/8 CABLE	Beam	None	A36	Typical
1233	CB1233	N765A	N723A			1/8 CABLE	Beam	None	A36	Typical
1234	CB1234	N723A	N766A			1/8 CABLE	Beam	None	A36	Typical
1235	CB1235	N766A	N724A			1/8 CABLE	Beam	None	A36	Typical
1236	CB1236	N724A	N767A			1/8 CABLE	Beam	None	A36	Typical
1237	CB1237	N767A	N725A			1/8 CABLE	Beam	None	A36	Typical
1238	CB1238	N725A	N768A			1/8 CABLE	Beam	None	A36	Typical
1239	CB1239	N768A	N726A			1/8 CABLE	Beam	None	A36	Typical
1240	CB1240	N726A	N769A			1/8 CABLE	Beam	None	A36	Typical
1241	CB1241	N769A	N727A			1/8 CABLE	Beam	None	A36	Typical
1242	CB1242	N727A	N770A			1/8 CABLE	Beam	None	A36	Typical
1243	CB1243	N770A	N728A			1/8 CABLE	Beam	None	A36	Typical
1244	CB1244	N728A	N771A			1/8 CABLE	Beam	None	A36	Typical
1245	CB1245	N771A	N729A			1/8 CABLE	Beam	None	A36	Typical
1246	CB1246	N729A	N772A			1/8 CABLE	Beam	None	A36	Typical
1247	CB1247	N772A	N730A			1/8 CABLE	Beam	None	A36	Typical
1248	CB1248	N730A	N773A			1/8 CABLE	Beam	None	A36	Typical
1249	CB1249	N773A	N731A			1/8 CABLE	Beam	None	A36	Typical
1250	CB1250	N731A	N774A			1/8 CABLE	Beam	None	A36	Typical
1251	CB1251	N774A	N732A			1/8 CABLE	Beam	None	A36	Typical
1252	CB1252	N732A	N775A			1/8 CABLE	Beam	None	A36	Typical
1253	CB1253	N775A	N733A			1/8 CABLE	Beam	None	A36	Typical
1254	CB1254	N733A	N776A			1/8 CABLE	Beam	None	A36	Typical
1255	CB1255	N776A	N734A			1/8 CABLE	Beam	None	A36	Typical
1256	CB1256	N734A	N777A			1/8 CABLE	Beam	None	A36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1257	CB1257	N777A	N735A			1/8 CABLE	Beam	None	A36	Typical
1258	CB1258	N735A	N778A			1/8 CABLE	Beam	None	A36	Typical
1259	CB1259	N778A	N736A			1/8 CABLE	Beam	None	A36	Typical
1260	CB1260	N736A	N758A			1/8 CABLE	Beam	None	A36	Typical
1261	CB1261	N779A	N737A			1/8 CABLE	Beam	None	A36	Typical
1262	CB1262	N737A	N780A			1/8 CABLE	Beam	None	A36	Typical
1263	CB1263	N780A	N738A			1/8 CABLE	Beam	None	A36	Typical
1264	CB1264	N738A	N781A			1/8 CABLE	Beam	None	A36	Typical
1265	CB1265	N781A	N739A			1/8 CABLE	Beam	None	A36	Typical
1266	CB1266	N739A	N782A			1/8 CABLE	Beam	None	A36	Typical
1267	CB1267	N782A	N740A			1/8 CABLE	Beam	None	A36	Typical
1268	CB1268	N740A	N783A			1/8 CABLE	Beam	None	A36	Typical
1269	CB1269	N783A	N741A			1/8 CABLE	Beam	None	A36	Typical
1270	CB1270	N741A	N784A			1/8 CABLE	Beam	None	A36	Typical
1271	CB1271	N784A	N742A			1/8 CABLE	Beam	None	A36	Typical
1272	CB1272	N742A	N785A			1/8 CABLE	Beam	None	A36	Typical
1273	CB1273	N785A	N743A			1/8 CABLE	Beam	None	A36	Typical
1274	CB1274	N743A	N786A			1/8 CABLE	Beam	None	A36	Typical
1275	CB1275	N786A	N744A			1/8 CABLE	Beam	None	A36	Typical
1276	CB1276	N744A	N787A			1/8 CABLE	Beam	None	A36	Typical
1277	CB1277	N787A	N745A			1/8 CABLE	Beam	None	A36	Typical
1278	CB1278	N745A	N788A			1/8 CABLE	Beam	None	A36	Typical
1279	CB1279	N788A	N746A			1/8 CABLE	Beam	None	A36	Typical
1280	CB1280	N746A	N789A			1/8 CABLE	Beam	None	A36	Typical
1281	CB1281	N789A	N747A			1/8 CABLE	Beam	None	A36	Typical
1282	CB1282	N747A	N790A			1/8 CABLE	Beam	None	A36	Typical
1283	CB1283	N790A	N748A			1/8 CABLE	Beam	None	A36	Typical
1284	CB1284	N748A	N791A			1/8 CABLE	Beam	None	A36	Typical
1285	CB1285	N791A	N749A			1/8 CABLE	Beam	None	A36	Typical
1286	CB1286	N749A	N792A			1/8 CABLE	Beam	None	A36	Typical
1287	CB1287	N792A	N750A			1/8 CABLE	Beam	None	A36	Typical
1288	CB1288	N750A	N793A			1/8 CABLE	Beam	None	A36	Typical
1289	CB1289	N793A	N751A			1/8 CABLE	Beam	None	A36	Typical
1290	CB1290	N751A	N794A			1/8 CABLE	Beam	None	A36	Typical
1291	CB1291	N794A	N752A			1/8 CABLE	Beam	None	A36	Typical
1292	CB1292	N752A	N795A			1/8 CABLE	Beam	None	A36	Typical
1293	CB1293	N795A	N753A			1/8 CABLE	Beam	None	A36	Typical
1294	CB1294	N753A	N796A			1/8 CABLE	Beam	None	A36	Typical
1295	CB1295	N796A	N754A			1/8 CABLE	Beam	None	A36	Typical
1296	CB1296	N754A	N797A			1/8 CABLE	Beam	None	A36	Typical
1297	CB1297	N797A	N755A			1/8 CABLE	Beam	None	A36	Typical
1298	CB1298	N755A	N798A			1/8 CABLE	Beam	None	A36	Typical
1299	CB1299	N798A	N756A			1/8 CABLE	Beam	None	A36	Typical
1300	CB1300	N756A	N799A			1/8 CABLE	Beam	None	A36	Typical
1301	CB1301	N799A	N757A			1/8 CABLE	Beam	None	A36	Typical
1302	CB1302	N757A	N779A			1/8 CABLE	Beam	None	A36	Typical
1303	CP1	N169	N800A			CENTERPOST	Column	Tube	TUBE	Typical
1304	PA1	N800A	N22			POSTARM	Column	Tube	TUBE	Typical
1305	PA2	N800A	N802A			POSTARM	Column	Tube	TUBE	Typical
1306	PA3	N800A	N1			POSTARM	Column	Tube	TUBE	Typical
1307	PA4	N800A	N801A			POSTARM	Column	Tube	TUBE	Typical
1308	RNG11A	N801A	N12		90	RING	Beam	Rectangular D...	RING	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1309	RNG32A	N802A	N33		90	RING	Beam	Rectangular D...	RING	Typical
1310	RNG41A	N803A	N42		90	RING	Beam	Rectangular D...	RING	Typical
1311	RNG2A	N804A	N3		90	RING	Beam	Rectangular D...	RING	Typical
1312	RNG20A	N805A	N21		90	RING	Beam	Rectangular D...	RING	Typical
1313	RNG23A	N806A	N24		90	RING	Beam	Rectangular D...	RING	Typical
1314	BR1314	N803A	N42			BRACKET	Beam	Channel	A36	Typical
1315	BR1315	N42	N1			BRACKET	Beam	Channel	A36	Typical
1316	BR1316	N1	N2			BRACKET	Beam	Channel	A36	Typical
1317	BR1317	N2	N804A			BRACKET	Beam	Channel	A36	Typical
1318	BR1318	N10	N11			BRACKET	Beam	Channel	A36	Typical
1319	BR1319	N11	N801A			BRACKET	Beam	Channel	A36	Typical
1320	BR1320	N801A	N12			BRACKET	Beam	Channel	A36	Typical
1321	BR1321	N12	N13			BRACKET	Beam	Channel	A36	Typical
1322	BR1322	N805A	N21			BRACKET	Beam	Channel	A36	Typical
1323	BR1323	N21	N22			BRACKET	Beam	Channel	A36	Typical
1324	BR1324	N22	N23			BRACKET	Beam	Channel	A36	Typical
1325	BR1325	N23	N806A			BRACKET	Beam	Channel	A36	Typical
1326	BR1326	N31	N32			BRACKET	Beam	Channel	A36	Typical
1327	BR1327	N32	N802A			BRACKET	Beam	Channel	A36	Typical
1328	BR1328	N802A	N33			BRACKET	Beam	Channel	A36	Typical
1329	BR1329	N33	N34			BRACKET	Beam	Channel	A36	Typical

Wood Design Parameters

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
1	RNG1	RING	.336			Lbyy				1			
2	RNG2	RING	.168			Lbyy				1			
3	RNG3	RING	.336			Lbyy				1			
4	RNG4	RING	.336			Lbyy				1			
5	RNG5	RING	.336			Lbyy				1			
6	RNG6	RING	.336			Lbyy				1			
7	RNG7	RING	.337			Lbyy				1			
8	RNG8	RING	.336			Lbyy				1			
9	RNG9	RING	.337			Lbyy				1			
10	RNG10	RING	.336			Lbyy				1			
11	RNG11	RING	.168			Lbyy				1			
12	RNG12	RING	.336			Lbyy				1			
13	RNG13	RING	.337			Lbyy				1			
14	RNG14	RING	.336			Lbyy				1			
15	RNG15	RING	.337			Lbyy				1			
16	RNG16	RING	.336			Lbyy				1			
17	RNG17	RING	.336			Lbyy				1			
18	RNG18	RING	.336			Lbyy				1			
19	RNG19	RING	.336			Lbyy				1			
20	RNG20	RING	.168			Lbyy				1			
21	RNG21	RING	.336			Lbyy				1			
22	RNG22	RING	.336			Lbyy				1			
23	RNG23	RING	.168			Lbyy				1			
24	RNG24	RING	.336			Lbyy				1			
25	RNG25	RING	.336			Lbyy				1			
26	RNG26	RING	.336			Lbyy				1			

Wood Design Parameters (Continued)

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
27	RNG27	RING	.336			Lbyy				1			
28	RNG28	RING	.337			Lbyy				1			
29	RNG29	RING	.336			Lbyy				1			
30	RNG30	RING	.337			Lbyy				1			
31	RNG31	RING	.336			Lbyy				1			
32	RNG32	RING	.168			Lbyy				1			
33	RNG33	RING	.336			Lbyy				1			
34	RNG34	RING	.337			Lbyy				1			
35	RNG35	RING	.336			Lbyy				1			
36	RNG36	RING	.337			Lbyy				1			
37	RNG37	RING	.336			Lbyy				1			
38	RNG38	RING	.336			Lbyy				1			
39	RNG39	RING	.336			Lbyy				1			
40	RNG40	RING	.336			Lbyy				1			
41	RNG41	RING	.168			Lbyy				1			
42	RNG42	RING	.336			Lbyy				1			
43	ST1	POST	7	3.5		Lbyy				1	Yes		
44	ST2	POST	7	3.5		Lbyy				1	Yes		
45	ST3	POST	7	3.5		Lbyy				1	Yes		
46	ST4	POST	7	3.5		Lbyy				1	Yes		
47	ST5	POST	7	3.5		Lbyy				1	Yes		
48	ST6	POST	7	3.5		Lbyy				1	Yes		
49	ST7	POST	7	3.5		Lbyy				1	Yes		
50	ST8	POST	7	3.5		Lbyy				1	Yes		
51	ST9	POST	7	3.5		Lbyy				1	Yes		
52	ST10	POST	7	3.5		Lbyy				1	Yes		
53	ST11	POST	7	3.5		Lbyy				1	Yes		
54	ST12	POST	7	3.5		Lbyy				1	Yes		
55	ST13	POST	7	3.5		Lbyy				1	Yes		
56	ST14	POST	7	3.5		Lbyy				1	Yes		
57	ST15	POST	7	3.5		Lbyy				1	Yes		
58	ST16	POST	7	3.5		Lbyy				1	Yes		
59	ST17	POST	7	3.5		Lbyy				1	Yes		
60	ST18	POST	7	3.5		Lbyy				1	Yes		
61	ST19	POST	7	3.5		Lbyy				1	Yes		
62	ST20	POST	7	3.5		Lbyy				1	Yes		
63	ST21	POST	7	3.5		Lbyy				1	Yes		
64	ST22	POST	7	3.5		Lbyy				1	Yes		
65	ST23	POST	7	3.5		Lbyy				1	Yes		
66	ST24	POST	7	3.5		Lbyy				1	Yes		
67	ST25	POST	7	3.5		Lbyy				1	Yes		
68	ST26	POST	7	3.5		Lbyy				1	Yes		
69	ST27	POST	7	3.5		Lbyy				1	Yes		
70	ST28	POST	7	3.5		Lbyy				1	Yes		
71	ST29	POST	7	3.5		Lbyy				1	Yes		
72	ST30	POST	7	3.5		Lbyy				1	Yes		
73	ST31	POST	7	3.5		Lbyy				1	Yes		
74	ST32	POST	7	3.5		Lbyy				1	Yes		
75	ST33	POST	7	3.5		Lbyy				1	Yes		
76	ST34	POST	7	3.5		Lbyy				1	Yes		
77	ST35	POST	7	3.5		Lbyy				1	Yes		
78	ST36	POST	7	3.5		Lbyy				1	Yes		

Wood Design Parameters (Continued)

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
79	ST37	POST	7	3.5		Lbyy				1	Yes		
80	ST38	POST	7	3.5		Lbyy				1	Yes		
81	ST39	POST	7	3.5		Lbyy				1	Yes		
82	ST40	POST	7	3.5		Lbyy				1	Yes		
83	ST41	POST	7	3.5		Lbyy				1	Yes		
84	ST42	POST	7	3.5		Lbyy				1	Yes		
85	R1	RAFTER	11.112	3.75		3.75	3.75			1			
86	R2	RAFTER	11.112	3.75		3.75	3.75			1			
87	R3	RAFTER	11.112	3.75		3.75	3.75			1			
88	R4	RAFTER	11.112	3.75		3.75	3.75			1			
89	R5	RAFTER	11.112	3.75		3.75	3.75			1			
90	R6	RAFTER	11.112	3.75		3.75	3.75			1			
91	R7	RAFTER	11.112	3.75		3.75	3.75			1			
92	R8	RAFTER	11.111	3.75		3.75	3.75			1			
93	R9	RAFTER	11.112	3.75		3.75	3.75			1			
94	R10	RAFTER	11.111	3.75		3.75	3.75			1			
95	R11	RAFTER	11.111	3.75		3.75	3.75			1			
96	R12	RAFTER	11.111	3.75		3.75	3.75			1			
97	R13	RAFTER	11.111	3.75		3.75	3.75			1			
98	R14	RAFTER	11.112	3.75		3.75	3.75			1			
99	R15	RAFTER	11.111	3.75		3.75	3.75			1			
100	R16	RAFTER	11.112	3.75		3.75	3.75			1			
101	R17	RAFTER	11.112	3.75		3.75	3.75			1			
102	R18	RAFTER	11.112	3.75		3.75	3.75			1			
103	R19	RAFTER	11.112	3.75		3.75	3.75			1			
104	R20	RAFTER	11.112	3.75		3.75	3.75			1			
105	R21	RAFTER	11.112	3.75		3.75	3.75			1			
106	R22	RAFTER	11.112	3.75		3.75	3.75			1			
107	R23	RAFTER	11.112	3.75		3.75	3.75			1			
108	R24	RAFTER	11.112	3.75		3.75	3.75			1			
109	R25	RAFTER	11.112	3.75		3.75	3.75			1			
110	R26	RAFTER	11.112	3.75		3.75	3.75			1			
111	R27	RAFTER	11.112	3.75		3.75	3.75			1			
112	R28	RAFTER	11.112	3.75		3.75	3.75			1			
113	R29	RAFTER	11.111	3.75		3.75	3.75			1			
114	R30	RAFTER	11.112	3.75		3.75	3.75			1			
115	R31	RAFTER	11.111	3.75		3.75	3.75			1			
116	R32	RAFTER	11.111	3.75		3.75	3.75			1			
117	R33	RAFTER	11.111	3.75		3.75	3.75			1			
118	R34	RAFTER	11.111	3.75		3.75	3.75			1			
119	R35	RAFTER	11.112	3.75		3.75	3.75			1			
120	R36	RAFTER	11.111	3.75		3.75	3.75			1			
121	R37	RAFTER	11.112	3.75		3.75	3.75			1			
122	R38	RAFTER	11.112	3.75		3.75	3.75			1			
123	R39	RAFTER	11.112	3.75		3.75	3.75			1			
124	R40	RAFTER	11.112	3.75		3.75	3.75			1			
125	R41	RAFTER	11.112	3.75		3.75	3.75			1			
126	R42	RAFTER	11.112	3.75		3.75	3.75			1			
127	BLK1219	BLOCKING	1.794			Lbyy				1			
128	BLK1220	BLOCKING	1.793			Lbyy				1			
129	BLK1221	BLOCKING	1.794			Lbyy				1			
130	BLK1222	BLOCKING	1.793			Lbyy				1			

Wood Design Parameters (Continued)

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
131	BLK1223	BLOCKING	1.793			Lbyy				1			
132	BLK1224	BLOCKING	1.794			Lbyy				1			
133	BLK1225	BLOCKING	1.793			Lbyy				1			
134	BLK1226	BLOCKING	1.793			Lbyy				1			
135	BLK1227	BLOCKING	1.794			Lbyy				1			
136	BLK1228	BLOCKING	1.793			Lbyy				1			
137	BLK1229	BLOCKING	1.794			Lbyy				1			
138	BLK1230	BLOCKING	1.793			Lbyy				1			
139	BLK1231	BLOCKING	1.794			Lbyy				1			
140	BLK1232	BLOCKING	1.793			Lbyy				1			
141	BLK1233	BLOCKING	1.793			Lbyy				1			
142	BLK1234	BLOCKING	1.794			Lbyy				1			
143	BLK1235	BLOCKING	1.793			Lbyy				1			
144	BLK1236	BLOCKING	1.793			Lbyy				1			
145	BLK1237	BLOCKING	1.794			Lbyy				1			
146	BLK1238	BLOCKING	1.793			Lbyy				1			
147	BLK1239	BLOCKING	1.794			Lbyy				1			
148	BLK1240	BLOCKING	1.794			Lbyy				1			
149	BLK1241	BLOCKING	1.793			Lbyy				1			
150	BLK1242	BLOCKING	1.794			Lbyy				1			
151	BLK1243	BLOCKING	1.793			Lbyy				1			
152	BLK1244	BLOCKING	1.793			Lbyy				1			
153	BLK1245	BLOCKING	1.794			Lbyy				1			
154	BLK1246	BLOCKING	1.793			Lbyy				1			
155	BLK1247	BLOCKING	1.793			Lbyy				1			
156	BLK1248	BLOCKING	1.794			Lbyy				1			
157	BLK1249	BLOCKING	1.793			Lbyy				1			
158	BLK1250	BLOCKING	1.794			Lbyy				1			
159	BLK1251	BLOCKING	1.793			Lbyy				1			
160	BLK1252	BLOCKING	1.794			Lbyy				1			
161	BLK1253	BLOCKING	1.793			Lbyy				1			
162	BLK1254	BLOCKING	1.793			Lbyy				1			
163	BLK1255	BLOCKING	1.794			Lbyy				1			
164	BLK1256	BLOCKING	1.793			Lbyy				1			
165	BLK1257	BLOCKING	1.793			Lbyy				1			
166	BLK1258	BLOCKING	1.794			Lbyy				1			
167	BLK1259	BLOCKING	1.793			Lbyy				1			
168	BLK1260	BLOCKING	1.794			Lbyy				1			
169	RNG11A	RING	.168			Lbyy				1			
170	RNG32A	RING	.168			Lbyy				1			
171	RNG41A	RING	.168			Lbyy				1			
172	RNG2A	RING	.168			Lbyy				1			
173	RNG20A	RING	.168			Lbyy				1			
174	RNG23A	RING	.168			Lbyy				1			

Joint Loads and Enforced Displacements

Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
No Data to Print ...			

Member Point Loads (BLC 3 : wind torsion)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	ST1	z	.005	0
2	ST2	z	.005	0
3	ST3	z	.005	0
4	ST4	z	.005	0
5	ST5	z	.005	0
6	ST6	z	.005	0
7	ST7	z	.005	0
8	ST8	z	.005	0
9	ST9	z	.005	0
10	ST10	z	.005	0
11	ST11	z	.005	0
12	ST12	z	.005	0
13	ST13	z	.005	0
14	ST14	z	.005	0
15	ST15	z	.005	0
16	ST16	z	.005	0
17	ST17	z	.005	0
18	ST18	z	.005	0
19	ST19	z	.005	0
20	ST20	z	.005	0
21	ST21	z	.005	0
22	ST22	z	.005	0
23	ST23	z	.005	0
24	ST24	z	.005	0
25	ST25	z	.005	0
26	ST26	z	.005	0
27	ST27	z	.005	0
28	ST28	z	.005	0
29	ST29	z	.005	0
30	ST30	z	.005	0
31	ST31	z	.005	0
32	ST32	z	.005	0
33	ST33	z	.005	0
34	ST34	z	.005	0
35	ST35	z	.005	0
36	ST36	z	.005	0
37	ST37	z	.005	0
38	ST38	z	.005	0
39	ST39	z	.005	0
40	ST40	z	.005	0
41	ST41	z	.005	0
42	ST42	z	.005	0

Member Distributed Loads (BLC 1 : wind on studs)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ST22	Z	.005	.005	0	0
2	ST21	Z	.004	.004	0	0
3	ST23	Z	.004	.004	0	0
4	ST20	Z	.004	.004	0	0

Member Distributed Loads (BLC 1 : wind on studs) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	ST24	Z	.004	.004	0	0
6	ST19	Z	.004	.004	0	0
7	ST25	Z	.004	.004	0	0
8	ST18	Z	.004	.004	0	0
9	ST26	Z	.004	.004	0	0
10	ST17	Z	.003	.003	0	0
11	ST27	Z	.003	.003	0	0
12	ST16	Z	.003	.003	0	0
13	ST28	Z	.003	.003	0	0
14	ST15	Z	.002	.002	0	0
15	ST29	Z	.002	.002	0	0
16	ST14	Z	.002	.002	0	0
17	ST30	Z	.002	.002	0	0
18	ST13	Z	.001	.001	0	0
19	ST31	Z	.001	.001	0	0
20	ST1	Z	.003	.003	0	0
21	ST42	Z	.003	.003	0	0
22	ST2	Z	.003	.003	0	0
23	ST41	Z	.003	.003	0	0
24	ST3	Z	.003	.003	0	0
25	ST40	Z	.003	.003	0	0
26	ST4	Z	.003	.003	0	0
27	ST39	Z	.003	.003	0	0
28	ST5	Z	.003	.003	0	0
29	ST38	Z	.002	.002	0	0
30	ST6	Z	.002	.002	0	0
31	ST37	Z	.002	.002	0	0
32	ST7	Z	.002	.002	0	0
33	ST36	Z	.002	.002	0	0
34	ST8	Z	.002	.002	0	0
35	ST35	Z	.001	.001	0	0
36	ST9	Z	.001	.001	0	0
37	ST34	Z	.0007	.0007	0	0
38	ST10	Z	.0007	.0007	0	0
39	ST32	Z	.0002	.0002	0	0
40	ST11	Z	.0002	.0002	0	0
41	ST12	Z	.0003	.0003	0	0
42	ST33	Z	.0002	.0002	0	0

Member Distributed Loads (BLC 2 : wind on rafters case A)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	R22	y	.003	.012	0	0
2	R21	y	.003	.013	0	0
3	R23	y	.003	.013	0	0
4	R20	y	.003	.013	0	0
5	R24	y	.003	.013	0	0
6	R19	y	.003	.014	0	0
7	R25	y	.003	.014	0	0
8	R18	y	.003	.015	0	0
9	R26	y	.003	.015	0	0
10	R17	y	.003	.015	0	0

Member Distributed Loads (BLC 2 : wind on rafters case A) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	R27	y	.003	.015	0	0
12	R16	y	.003	.016	0	0
13	R28	y	.003	.016	0	0
14	R15	y	.003	.016	0	0
15	R29	y	.003	.016	0	0
16	R14	y	.003	.016	0	0
17	R30	y	.003	.016	0	0
18	R13	y	.003	.017	0	0
19	R31	y	.003	.017	0	0
20	R12	y	.003	.017	0	0
21	R32	y	.003	.017	0	0
22	R1	y	.003	.007	0	0
23	R42	y	.003	.009	0	0
24	R2	y	.003	.009	0	0
25	R41	y	.003	.01	0	0
26	R3	y	.003	.01	0	0
27	R40	y	.003	.011	0	0
28	R4	y	.003	.011	0	0
29	R39	y	.003	.013	0	0
30	R5	y	.003	.013	0	0
31	R38	y	.003	.014	0	0
32	R6	y	.003	.014	0	0
33	R37	y	.003	.015	0	0
34	R7	y	.003	.015	0	0
35	R36	y	.003	.015	0	0
36	R8	y	.003	.015	0	0
37	R35	y	.003	.016	0	0
38	R9	y	.003	.016	0	0
39	R34	y	.003	.016	0	0
40	R10	y	.003	.016	0	0
41	R33	y	.003	.017	0	0
42	R11	y	.003	.017	0	0

Member Distributed Loads (BLC 4 : wind on ring)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	RNG1	Y	.01	.01	0	0
2	RNG2	Y	.01	.01	0	0
3	RNG3	Y	.01	.01	0	0
4	RNG4	Y	.01	.01	0	0
5	RNG5	Y	.01	.01	0	0
6	RNG6	Y	.01	.01	0	0
7	RNG7	Y	.01	.01	0	0
8	RNG8	Y	.01	.01	0	0
9	RNG9	Y	.01	.01	0	0
10	RNG10	Y	.01	.01	0	0
11	RNG11	Y	.01	.01	0	0
12	RNG12	Y	.01	.01	0	0
13	RNG13	Y	.01	.01	0	0
14	RNG14	Y	.01	.01	0	0
15	RNG15	Y	.01	.01	0	0
16	RNG16	Y	.01	.01	0	0

Member Distributed Loads (BLC 4 : wind on ring) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	RNG17	Y	.01	.01	0	0
18	RNG18	Y	.01	.01	0	0
19	RNG19	Y	.01	.01	0	0
20	RNG20	Y	.01	.01	0	0
21	RNG21	Y	.01	.01	0	0
22	RNG22	Y	.01	.01	0	0
23	RNG23	Y	.01	.01	0	0
24	RNG24	Y	.01	.01	0	0
25	RNG25	Y	.01	.01	0	0
26	RNG26	Y	.01	.01	0	0
27	RNG27	Y	.01	.01	0	0
28	RNG28	Y	.01	.01	0	0
29	RNG29	Y	.01	.01	0	0
30	RNG30	Y	.01	.01	0	0
31	RNG31	Y	.01	.01	0	0
32	RNG32	Y	.01	.01	0	0
33	RNG33	Y	.01	.01	0	0
34	RNG34	Y	.01	.01	0	0
35	RNG35	Y	.01	.01	0	0
36	RNG36	Y	.01	.01	0	0
37	RNG37	Y	.01	.01	0	0
38	RNG38	Y	.01	.01	0	0
39	RNG39	Y	.01	.01	0	0
40	RNG40	Y	.01	.01	0	0
41	RNG41	Y	.01	.01	0	0
42	RNG42	Y	.01	.01	0	0
43	RNG11A	Y	.01	.01	0	.168
44	RNG32A	Y	.01	.01	0	.168
45	RNG41A	Y	.01	.01	0	.168
46	RNG2A	Y	.01	.01	0	.168
47	RNG20A	Y	.01	.01	0	.168
48	RNG23A	Y	.01	.01	0	.168

Member Distributed Loads (BLC 5 : 10 psf snow)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	R1	PY	-.004	-.018	0	0
2	R2	PY	-.004	-.018	0	0
3	R3	PY	-.004	-.018	0	0
4	R4	PY	-.004	-.018	0	0
5	R5	PY	-.004	-.018	0	0
6	R6	PY	-.004	-.018	0	0
7	R7	PY	-.004	-.018	0	0
8	R8	PY	-.004	-.018	0	0
9	R9	PY	-.004	-.018	0	0
10	R10	PY	-.004	-.018	0	0
11	R11	PY	-.004	-.018	0	0
12	R12	PY	-.004	-.018	0	0
13	R13	PY	-.004	-.018	0	0
14	R14	PY	-.004	-.018	0	0
15	R15	PY	-.004	-.018	0	0
16	R16	PY	-.004	-.018	0	0

Member Distributed Loads (BLC 5 : 10 psf snow) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	R17	PY	-.004	-.018	0	0
18	R18	PY	-.004	-.018	0	0
19	R19	PY	-.004	-.018	0	0
20	R20	PY	-.004	-.018	0	0
21	R21	PY	-.004	-.018	0	0
22	R22	PY	-.004	-.018	0	0
23	R23	PY	-.004	-.018	0	0
24	R24	PY	-.004	-.018	0	0
25	R25	PY	-.004	-.018	0	0
26	R26	PY	-.004	-.018	0	0
27	R27	PY	-.004	-.018	0	0
28	R28	PY	-.004	-.018	0	0
29	R29	PY	-.004	-.018	0	0
30	R30	PY	-.004	-.018	0	0
31	R31	PY	-.004	-.018	0	0
32	R32	PY	-.004	-.018	0	0
33	R33	PY	-.004	-.018	0	0
34	R34	PY	-.004	-.018	0	0
35	R35	PY	-.004	-.018	0	0
36	R36	PY	-.004	-.018	0	0
37	R37	PY	-.004	-.018	0	0
38	R38	PY	-.004	-.018	0	0
39	R39	PY	-.004	-.018	0	0
40	R40	PY	-.004	-.018	0	0
41	R41	PY	-.004	-.018	0	0
42	R42	PY	-.004	-.018	0	0
43	RNG1	PY	-.011	-.011	0	0
44	RNG2	PY	-.011	-.011	0	0
45	RNG3	PY	-.011	-.011	0	0
46	RNG4	PY	-.011	-.011	0	0
47	RNG5	PY	-.011	-.011	0	0
48	RNG6	PY	-.011	-.011	0	0
49	RNG7	PY	-.011	-.011	0	0
50	RNG8	PY	-.011	-.011	0	0
51	RNG9	PY	-.011	-.011	0	0
52	RNG10	PY	-.011	-.011	0	0
53	RNG11	PY	-.011	-.011	0	0
54	RNG12	PY	-.011	-.011	0	0
55	RNG13	PY	-.011	-.011	0	0
56	RNG14	PY	-.011	-.011	0	0
57	RNG15	PY	-.011	-.011	0	0
58	RNG16	PY	-.011	-.011	0	0
59	RNG17	PY	-.011	-.011	0	0
60	RNG18	PY	-.011	-.011	0	0
61	RNG19	PY	-.011	-.011	0	0
62	RNG20	PY	-.011	-.011	0	0
63	RNG21	PY	-.011	-.011	0	0
64	RNG22	PY	-.011	-.011	0	0
65	RNG23	PY	-.011	-.011	0	0
66	RNG24	PY	-.011	-.011	0	0
67	RNG25	PY	-.011	-.011	0	0
68	RNG26	PY	-.011	-.011	0	0

Member Distributed Loads (BLC 5 : 10 psf snow) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	RNG27	PY	-.011	-.011	0	0
70	RNG28	PY	-.011	-.011	0	0
71	RNG29	PY	-.011	-.011	0	0
72	RNG30	PY	-.011	-.011	0	0
73	RNG31	PY	-.011	-.011	0	0
74	RNG32	PY	-.011	-.011	0	0
75	RNG33	PY	-.011	-.011	0	0
76	RNG34	PY	-.011	-.011	0	0
77	RNG35	PY	-.011	-.011	0	0
78	RNG36	PY	-.011	-.011	0	0
79	RNG37	PY	-.011	-.011	0	0
80	RNG38	PY	-.011	-.011	0	0
81	RNG39	PY	-.011	-.011	0	0
82	RNG40	PY	-.011	-.011	0	0
83	RNG41	PY	-.011	-.011	0	0
84	RNG42	PY	-.011	-.011	0	0
85	RNG11A	PY	-.011	-.011	0	.168
86	RNG32A	PY	-.011	-.011	0	.168
87	RNG41A	PY	-.011	-.011	0	.168
88	RNG2A	PY	-.011	-.011	0	.168
89	RNG20A	PY	-.011	-.011	0	.168
90	RNG23A	PY	-.011	-.011	0	.168

Member Distributed Loads (BLC 7 : wind load on rafters case B)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	R1	y	.003	.007	0	0
2	R42	y	.003	.009	0	0
3	R2	y	.003	.009	0	0
4	R41	y	.003	.01	0	0
5	R3	y	.003	.01	0	0
6	R40	y	.003	.011	0	0
7	R4	y	.003	.011	0	0
8	R39	y	.003	.013	0	0
9	R5	y	.003	.013	0	0
10	R38	y	.003	.014	0	0
11	R6	y	.003	.014	0	0
12	R37	y	.003	.015	0	0
13	R7	y	.003	.015	0	0
14	R36	y	.003	.015	0	0
15	R8	y	.003	.015	0	0
16	R35	y	.003	.016	0	0
17	R9	y	.003	.016	0	0
18	R34	y	.003	.016	0	0
19	R10	y	.003	.016	0	0
20	R33	y	.003	.017	0	0
21	R11	y	.003	.017	0	0
22	R22	y	.003	.01	0	4.944
23	R21	y	.003	.01	0	4.944
24	R23	y	.003	.01	0	4.944
25	R20	y	.003	.01	0	4.944
26	R24	y	.003	.01	0	4.944

Member Distributed Loads (BLC 7 : wind load on rafters case B) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	R19	y	.003	.01	0	4.944
28	R25	y	.003	.01	0	4.944
29	R18	y	.003	.01	0	4.944
30	R26	y	.003	.01	0	4.944
31	R17	y	.003	.011	0	4.944
32	R27	y	.003	.011	0	4.944
33	R16	y	.003	.011	0	4.944
34	R28	y	.003	.011	0	4.944
35	R15	y	.003	.011	0	4.944
36	R29	y	.003	.011	0	4.944
37	R14	y	.003	.011	0	4.944
38	R30	y	.003	.011	0	4.944
39	R13	y	.003	.011	0	4.944
40	R31	y	.003	.011	0	4.944
41	R12	y	.003	.011	0	4.944
42	R32	y	.003	.011	0	4.944
43	R22	y	.008	.012	4.944	%100
44	R21	y	.008	.013	4.944	%100
45	R23	y	.008	.013	4.944	%100
46	R20	y	.009	.013	4.944	%100
47	R24	y	.009	.013	4.944	%100
48	R19	y	.009	.014	4.944	%100
49	R25	y	.009	.014	4.944	%100
50	R18	y	.009	.015	4.944	%100
51	R26	y	.009	.015	4.944	%100
52	R17	y	.01	.015	4.944	%100
53	R27	y	.01	.015	4.944	%100
54	R16	y	.01	.016	4.944	%100
55	R28	y	.01	.016	4.944	%100
56	R15	y	.01	.016	4.944	%100
57	R29	y	.01	.016	4.944	%100
58	R14	y	.01	.016	4.944	%100
59	R30	y	.01	.016	4.944	%100
60	R13	y	.01	.017	4.944	%100
61	R31	y	.01	.017	4.944	%100
62	R12	y	.01	.017	4.944	%100
63	R32	y	.01	.017	4.944	%100

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	wind on studs	None						42		
2	wind on rafters case A	None						42		
3	wind torsion	None					42			
4	wind on ring	None						48		
5	10 psf snow	None						90		
6	DL	None		-1						
7	wind load on rafters c...	None						63		

Load Combinations

	Description	So...	PDelta	SRSS	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac..	BLC	Fac...
1	D+S	Yes			6	1	5	9																
2	D+.75(W...	Yes			6	1	1	1.8...	2	1.8...	4	1.8...	5	6.75										
3	D+.75(W...	Yes			6	1	1	1.41	2	1.41	3	1.41	4	1.41	5	6.75								
4	D+.75(W...	Yes			6	1	1	1.8...	7	1.8...	4	1.8...	5	6.75										
5	D+.75(W...	Yes			6	1	1	1.41	7	1.41	3	1.41	4	1.41	5	6.75								
6	D+.75(W...	Yes			6	1	1	1.8...	4	1.8...	5	6.75												
7	D+.75(W...	Yes			6	1	1	1.41	3	1.41	4	1.41	5	6.75										
8	.6D+W c...	Yes			6	.6	1	2.5	2	2.5	4	2.5												
9	.6D+W c...	Yes			6	.6	1	1.8...	2	1.8...	3	1.8...	4	1.8...										
10	.6D+W c...	Yes			6	.6	1	2.5	7	2.5	4	2.5												
11	.6D+W c...	Yes			6	.6	1	1.8...	7	1.8...	3	1.8...	4	1.8...										
12	.6D+W n...	Yes			6	.6	1	2.5	4	2.5														
13	.6D + W ...	Yes			6	.6	1	1.8...	2	1.8...	3	1.8...												
14					6	1																		

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N127	max	0	10	.629	1	-.001	1	0	13	0	13	0	13
2		min	-.009	11	-.071	10	-.026	12	0	1	0	1	0	1
3	N128	max	.006	12	.628	1	-.001	1	0	13	0	13	0	13
4		min	-.007	11	-.09	10	-.027	12	0	1	0	1	0	1
5	N129	max	.011	12	.627	1	-.001	1	0	13	0	13	0	13
6		min	-.004	11	-.101	10	-.029	12	0	1	0	1	0	1
7	N130	max	.016	12	.626	1	-.001	1	0	13	0	13	0	13
8		min	-.001	11	-.111	10	-.031	12	0	1	0	1	0	1
9	N131	max	.019	12	.625	1	0	1	0	13	0	13	0	13
10		min	0	1	-.131	10	-.034	12	0	1	0	1	0	1
11	N132	max	.021	12	.625	1	0	1	0	13	0	13	0	13
12		min	0	1	-.142	10	-.038	12	0	1	0	1	0	1
13	N133	max	.02	12	.625	1	0	1	0	13	0	13	0	13
14		min	0	1	-.152	10	-.041	12	0	1	0	1	0	1
15	N134	max	.019	12	.626	1	0	1	0	13	0	13	0	13
16		min	-.001	1	-.154	10	-.044	12	0	1	0	1	0	1
17	N135	max	.015	12	.627	1	0	1	0	13	0	13	0	13
18		min	-.001	1	-.165	10	-.046	12	0	1	0	1	0	1
19	N136	max	.01	12	.628	1	0	1	0	13	0	13	0	13
20		min	-.001	1	-.169	10	-.047	12	0	1	0	1	0	1
21	N137	max	.003	12	.629	1	0	1	0	13	0	13	0	13
22		min	-.001	1	-.181	10	-.049	[illegible]	[illegible]	[illegible]	0	1	0	1
23	N138	max	-.001	1	.629	1	0	1	0	13	0	13	0	13
24		min	-.004	12	-.192	10	-.05	12	0	1	0	1	0	1
25	N139	max	-.001	1	.628	1	0	1	0	13	0	13	0	13
26		min	-.011	12	-.194	10	-.051	12	0	1	0	1	0	1
27	N140	max	-.001	1	.627	1	0	1	0	13	0	13	0	13
28		min	-.016	12	-.19	10	-.052	12	0	1	0	1	0	1
29	N141	max	-.001	1	.626	1	0	1	0	13	0	13	0	13
30		min	-.02	12	-.19	10	-.051	12	0	1	0	1	0	1
31	N142	max	0	1	.625	1	0	1	0	13	0	13	0	13
32		min	-.022	12	-.191	10	-.05	12	0	1	0	1	0	1

uplift reaction

Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
33	N143	max	0	1	.625	1	0	1	0	13	0	13	0	13
34		min	-.022	12	-.183	10	-.049	12	0	1	0	1	0	1
35	N144	max	0	1	.625	1	0	1	0	13	0	13	0	13
36		min	-.02	12	-.175	10	-.046	12	0	1	0	1	0	1
37	N145	max	0	1	.626	1	.001	1	0	13	0	13	0	13
38		min	-.017	12	-.167	10	-.043	12	0	1	0	1	0	1
39	N146	max	.003	11	.627	1	.001	1	0	13	0	13	0	13
40		min	-.012	12	-.16	10	-.042	12	0	1	0	1	0	1
41	N147	max	.006	11	.628	1	.001	1	0	13	0	13	0	13
42		min	-.007	12	-.154	10	-.038	8	0	1	0	1	0	1
43	N148	max	.009	11	.629	1	.001	1	0	13	0	13	0	13
44		min	0	10	-.147	10	-.042	8	0	1	0	1	0	1
45	N149	max	.013	13	.628	1	.001	1	0	13	0	13	0	13
46		min	0	1	-.154	10	-.038	8	0	1	0	1	0	1
47	N150	max	.016	13	.627	1	.001	1	0	13	0	13	0	13
48		min	0	1	-.16	10	-.042	12	0	1	0	1	0	1
49	N151	max	.019	13	.626	1	.001	1	0	13	0	13	0	13
50		min	0	1	-.167	10	-.043	12	0	1	0	1	0	1
51	N152	max	.02	12	.625	1	0	1	0	13	0	13	0	13
52		min	0	1	-.175	10	-.046	12	0	1	0	1	0	1
53	N153	max	.022	12	.625	1	0	1	0	13	0	13	0	13
54		min	0	1	-.183	10	-.048	12	0	1	0	1	0	1
55	N154	max	.021	12	.625	1	0	1	0	13	0	13	0	13
56		min	0	1	-.191	10	-.05	12	0	1	0	1	0	1
57	N155	max	.02	12	.626	1	[illegible]	[illegible]	[illegible]	13	0	13	0	13
58		min	.001	1	-.19	10	[illegible]	[illegible]	[illegible]	1	0	1	0	1
59	N156	max	.016	12	.627	1	0	1	0	13	0	13	0	13
60		min	.001	1	-.19	10	-.051	12	0	1	0	1	0	1
61	N157	max	.011	12	.628	1	0	1	0	13	0	13	0	13
62		min	.001	1	-.194	10	-.051	12	0	1	0	1	0	1
63	N158	max	.004	12	.629	1	0	1	0	13	0	13	0	13
64		min	.001	1	-.192	10	-.049	12	0	1	0	1	0	1
65	N159	max	.001	1	.629	1	0	1	0	13	0	13	0	13
66		min	-.003	12	-.182	10	-.048	12	0	1	0	1	0	1
67	N160	max	.001	1	.628	1	0	1	0	13	0	13	0	13
68		min	-.01	12	-.169	10	-.047	12	0	1	0	1	0	1
69	N161	max	.001	1	.627	1	0	1	0	13	0	13	0	13
70		min	-.015	12	-.165	10	-.046	12	0	1	0	1	0	1
71	N162	max	.001	1	.626	1	0	1	0	13	0	13	0	13
72		min	-.019	12	-.154	10	-.044	12	0	1	0	1	0	1
73	N163	max	0	1	.625	1	0	1	0	13	0	13	0	13
74		min	-.02	12	-.152	10	-.041	12	0	1	0	1	0	1
75	N164	max	0	1	.625	1	0	1	0	13	0	13	0	13
76		min	-.021	12	-.142	10	-.038	12	0	1	0	1	0	1
77	N165	max	0	1	.625	1	0	1	0	13	0	13	0	13
78		min	-.019	12	-.131	10	-.034	12	0	1	0	1	0	1
79	N166	max	0	1	.626	1	-.001	1	0	13	0	13	0	13
80		min	-.017	9	-.111	10	-.031	12	0	1	0	1	0	1
81	N167	max	0	1	.627	1	-.001	1	0	13	0	13	0	13
82		min	-.015	9	-.101	10	-.029	12	0	1	0	1	0	1
83	N168	max	0	1	.628	1	-.001	1	0	13	0	13	0	13
84		min	-.012	9	-.09	10	-.027	12	0	1	0	1	0	1

uplift reaction

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
408			min	-1.451	4	-1.043	1	-.119	8	-.013	10	-.012	8	-.084	8
409		5	max	-.083	12	.122	8	1.435	1	.071	1	.518	1	.268	1
410			min	-1.451	4	-1.043	1	-.12	8	-.013	10	-.017	8	-.09	8
411	RNG42	1	max	-.03	12	.069	8	.852	1	-.001	12	.294	1	.409	1
412			min	-.5	4	-.689	1	-.065	8	-.042	1	-.026	8	-.063	8
413		2	max	-.03	12	.069	8	.861	1	-.001	12	.366	1	.467	1
414			min	-.5	4	-.689	1	-.067	8	-.042	1	-.031	8	-.069	8
415		3	max	-.03	12	.069	8	.869	1	-.001	12	.438	1	.525	1
416			min	-.5	4	-.689	1	-.069	8	-.042	1	-.037	8	-.074	8
417		4	max	-.03	12	.069	8	.878	1	-.001	12	.512	1	.583	1
418			min	-.5	4	-.689	1	-.071	8	-.042	1	-.043	8	-.08	8
419		5	max	-.03	12	.069	8	.887	1	-.001	12	.586	1	.641	1
420			min	-.5	4	-.689	1	-.073	8	-.042	1	-.049	8	-.086	8
421	C1	1	max	.006	10	0	7	0	13	0	13	0	13	0	13
422			min	-.385	6	0	8	0	1	0	12	0	1	0	1
423		2	max	.006	10	0	7	0	13	0	13	0	13	0	13
424			min	-.385	6	0	8	0	1	0	12	0	1	0	1
425		3	max	.006	10	0	13	0	13	0	13	0	13	0	13
426			min	-.385	6	0	1	0	1	0	12	0	1	0	1
427		4	max	.006	10	0	13	0	13	0	13	0	13	0	13
428			min	-.385	6	0	1	0	1	0	12	0	1	0	1
429		5	max	.006	10	0	13	0	13	0	13	0	13	0	13
430			min	-.385	6	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	1	0	1
431	C2	1	max	.006	10	0	7	0	13	0	5	0	13	0	13
432			min	-.383	6	0	8	0	1	0	8	0	1	0	1
433		2	max	.006	10	0	7	0	13	0	5	0	13	0	13
434			min	-.383	6	0	8	0	1	0	8	0	1	0	1
435		3	max	.006	10	0	13	0	13	0	5	0	13	0	13
436			min	-.383	6	0	1	0	1	0	8	0	1	0	1
437		4	max	.006	10	0	13	0	13	0	5	0	13	0	13
438			min	-.383	6	0	1	0	1	0	8	0	1	0	1
439		5	max	.006	10	0	13	0	13	0	5	0	13	0	13
440			min	-.383	6	0	1	0	1	0	8	0	1	0	1
441	C3	1	max	.006	10	0	7	0	13	0	1	0	13	0	13
442			min	-.377	6	0	8	0	1	0	8	0	1	0	1
443		2	max	.006	10	0	7	0	13	0	1	0	13	0	13
444			min	-.377	6	0	8	0	1	0	8	0	1	0	1
445		3	max	.006	10	0	13	0	13	0	1	0	13	0	13
446			min	-.377	6	0	1	0	1	0	8	0	1	0	1
447		4	max	.006	10	0	13	0	13	0	1	0	13	0	13
448			min	-.377	6	0	1	0	1	0	8	0	1	0	1
449		5	max	.006	10	0	13	0	13	0	1	0	13	0	13
450			min	-.377	6	0	1	0	1	0	8	0	1	0	1
451	C4	1	max	.007	10	0	7	0	13	0	1	0	13	0	13
452			min	-.37	6	0	8	0	1	0	12	0	1	0	1
453		2	max	.007	10	0	7	0	13	0	1	0	13	0	13
454			min	-.37	6	0	8	0	1	0	12	0	1	0	1
455		3	max	.007	10	0	13	0	13	0	1	0	13	0	13
456			min	-.37	6	0	1	0	1	0	12	0	1	0	1
457		4	max	.007	10	0	13	0	13	0	1	0	13	0	13
458			min	-.37	6	0	1	0	1	0	12	0	1	0	1
459		5	max	.007	10	0	13	0	13	0	1	0	13	0	13

tension load from cable

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
1240			min	-.111	10	-.021	12	0	1	0	1	0	1	0	1
1241	ST41	1	max	.616	1	.024	12	.011	7	.002	1	0	10	0	10
1242			min	-.122	10	0	1	0	10	0	10	-.003	1	0	1
1243		2	max	.617	1	.011	12	.002	6	0	1	.006	9	-.001	1
1244			min	-.114	10	0	1	0	9	0	10	0	1	-.029	12
1245		3	max	.599	1	0	10	0	1	0	6	0	1	-.002	1
1246			min	-.098	10	0	1	-.007	9	0	10	0	10	-.039	12
1247		4	max	.602	1	0	1	0	1	0	6	0	1	-.001	1
1248			min	-.097	10	-.011	12	-.004	9	0	10	-.01	9	-.029	12
1249		5	max	.627	1	-.001	1	.021	9	0	13	0	13	0	13
1250			min	-.101	10	-.024	12	0	1	0	1	0	1	0	1
1251	ST42	1	max	.616	1	.026	10	.01	13	0	1	0	10	0	10
1252			min	-.113	10	0	1	0	10	0	10	-.002	1	0	1
1253		2	max	.617	1	.012	10	.001	6	0	1	.005	9	-.001	1
1254			min	-.105	10	0	1	0	9	0	10	0	1	-.031	12
1255		3	max	.599	1	0	10	0	1	0	6	0	7	-.002	1
1256			min	-.09	10	0	1	-.005	9	0	10	0	10	-.042	12
1257		4	max	.601	1	0	1	0	1	0	6	0	1	-.002	1
1258			min	-.088	10	-.012	8	-.003	9	0	10	-.007	9	-.032	12
1259		5	max	.628	1	-.001	1	.015	9	0	13	0	13	0	13
1260			min	-.09	10	-.026	12	0	1	0	1	0	1	0	1
1261	R1	1	max	-.017	12	.329	1	0	13	0	13	0	13	0	13
1262			min	-.14	4	-.048	8	0	12	0	10	0	1	0	1
1263		2	max	-.015	12	.222	1	0	13	0	13	0	13	.106	8
1264			min	-.096	4	-.027	[illegible]	[illegible]	[illegible]	[illegible]	10	0	12	-.782	1
1265		3	max	.032	1	.046	1	0	12	0	13	0	12	.148	8
1266			min	-.229	10	-.003	8	0	13	0	10	0	13	-1.172	1
1267		4	max	.166	1	.025	8	0	13	0	13	0	12	.126	8
1268			min	-.074	10	-.199	1	0	12	0	10	0	13	-.975	1
1269		5	max	.338	1	.067	8	0	13	0	13	0	13	0	13
1270			min	-.073	10	-.514	1	0	12	0	10	0	1	0	1
1271	R2	1	max	-.016	12	.329	1	0	8	.001	11	0	13	0	13
1272			min	-.147	4	-.057	8	0	11	-.002	1	0	1	0	1
1273		2	max	-.014	12	.222	1	0	8	.001	11	0	8	.129	8
1274			min	-.103	4	-.034	8	0	11	-.002	1	-.001	11	-.783	1
1275		3	max	.094	10	.046	1	0	11	.001	11	0	10	.193	8
1276			min	-.03	4	-.006	8	0	1	-.002	1	0	1	-1.172	1
1277		4	max	.166	1	.031	8	0	7	.001	11	.001	11	.16	8
1278			min	-.084	10	-.199	1	0	11	-.002	1	0	1	-.975	1
1279		5	max	.338	1	.086	8	0	7	.001	11	0	13	0	13
1280			min	-.083	10	-.514	1	0	11	-.002	1	0	1	0	1
1281	R3	1	max	-.015	12	.329	1	0	11	.001	11	0	13	0	13
1282			min	-.15	4	-.062	8	0	1	-.003	1	0	1	0	1
1283		2	max	-.013	12	.222	1	0	11	.001	11	.001	11	.142	8
1284			min	-.105	4	-.038	8	0	1	-.003	1	0	1	-.783	1
1285		3	max	.032	1	.046	1	0	7	.001	11	0	10	.206	8
1286			min	-.242	10	-.007	8	-.001	11	-.003	1	0	12	-1.172	1
1287		4	max	.166	1	.034	8	0	13	.001	11	0	8	.177	8
1288			min	-.087	10	-.199	1	0	8	-.003	1	0	13	-.975	1
1289		5	max	.338	1	.095	8	0	13	.001	11	0	13	0	13
1290			min	-.085	10	-.514	1	0	8	-.003	1	0	1	0	1
1291	R4	1	max	-.013	12	.329	1	0	8	.002	11	0	13	0	13

rafter reactions

RISA A NEMETSCHEK COMPANY	Company : Designer : Job Number : Model Name : 24' YURT - ASCE 7-16 - 90 psf - Ctr. Post		May 3, 2020 9:41 AM Checked By:_____

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
6128			min	0	1	0	12	-.008	12	0	1	-.003	12	0	1
6129		5	max	0	9	0	1	0	1	0	12	0	1	0	12
6130			min	0	1	0	12	-.008	12	0	1	-.005	12	0	1
6131	L614	1	max	.013	1	0	1	0	1	0	10	.001	8	0	1
6132			min	-.051	12	0	12	0	10	0	1	0	1	0	8
6133		2	max	.013	1	0	1	0	1	0	10	.001	12	0	1
6134			min	-.051	12	0	12	0	10	0	1	0	1	0	8
6135		3	max	.013	1	0	1	0	1	0	10	.001	12	0	7
6136			min	-.051	12	0	12	0	10	0	1	0	1	0	10
6137		4	max	.013	1	0	1	0	1	0	10	0	12	0	12
6138			min	-.051	12	0	[illegible]	[illegible]	[illegible]	0	1	0	1	0	1
6139		5	max	.013	1	0	[illegible]	[illegible]	[illegible]	0	10	0	7	0	12
6140			min	-.051	12	0	12	0	10	0	1	0	1	0	1
6141	L615	1	max	.012	1	0	4	0	12	0	12	0	1	0	10
6142			min	-.047	12	0	13	0	1	0	1	0	8	0	1
6143		2	max	.012	1	0	4	0	12	0	12	0	1	0	10
6144			min	-.047	12	0	13	0	1	0	1	0	8	0	1
6145		3	max	.012	1	0	4	0	12	0	12	0	1	0	12
6146			min	-.047	12	0	13	0	1	0	1	0	8	0	1
6147		4	max	.012	1	0	4	0	12	0	12	0	1	0	12
6148			min	-.047	12	0	13	0	1	0	1	0	10	0	1
6149		5	max	.012	1	0	4	0	12	0	12	0	7	0	12
6150			min	-.047	12	0	13	0	1	0	1	0	10	0	1
6151	L616	1	max	.012	1	0	12	0	1	0	12	0	12	0	12
6152			min	-.046	12	0	1	-.002	12	0	1	0	1	0	1
6153		2	max	.012	1	0	12	0	1	0	12	0	12	0	12
6154			min	-.046	12	0	1	-.002	12	0	1	0	1	0	1
6155		3	max	.012	1	0	12	0	1	0	12	0	10	0	1
6156			min	-.046	12	0	1	-.002	12	0	1	0	1	0	10
6157		4	max	.012	1	0	12	0	1	0	12	0	4	0	1
6158			min	-.046	12	0	1	-.002	12	0	1	0	7	0	10
6159		5	max	.012	1	0	12	0	1	0	12	0	1	0	1
6160			min	-.046	12	0	1	-.002	12	0	1	0	13	0	10
6161	L617	1	max	0	1	0	7	0	1	0	4	0	13	0	7
6162			min	-.009	12	0	4	0	13	0	13	0	4	0	8
6163		2	max	0	1	0	7	0	1	0	4	0	13	0	1
6164			min	-.009	12	0	4	0	13	0	13	0	4	0	12
6165		3	max	0	1	0	7	0	1	0	4	0	1	0	1
6166			min	-.009	12	0	4	0	13	0	13	0	12	0	12
6167		4	max	0	1	0	7	0	1	0	4	0	1	0	1
6168			min	-.009	12	0	4	0	13	0	13	0	13	0	9
6169		5	max	0	1	0	7	0	1	0	4	0	1	0	1
6170			min	-.009	12	0	4	0	13	0	13	0	13	0	9
6171	L618	1	max	0	1	0	1	.002	7	0	6	0	10	0	1
6172			min	-.004	12	0	12	0	1	0	10	0	7	0	12
6173		2	max	0	1	0	1	.002	7	0	6	0	10	0	1
6174			min	-.004	12	0	12	0	1	0	10	0	1	0	12
6175		3	max	0	1	0	1	.002	7	0	6	0	12	0	12
6176			min	-.004	12	0	12	0	1	0	10	0	1	0	1
6177		4	max	0	1	0	1	.002	7	0	6	.001	12	0	12
6178			min	-.004	12	0	12	0	1	0	10	0	1	0	1
6179		5	max	0	1	0	1	.002	7	0	6	.002	7	0	12

lattice tension

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
10600			min	.001	1	0	1	0	1	0	1	0	1	0	12
10601	L1061	1	max	.023	12	0	1	0	1	0	12	0	7	0	1
10602			min	.001	1	0	11	0	7	0	1	0	1	0	11
10603		2	max	.023	12	0	1	0	1	0	12	0	7	0	12
10604			min	.001	1	0	11	0	7	0	1	0	10	0	1
10605		3	max	.023	12	0	1	0	1	0	12	0	1	0	12
10606			min	.001	1	0	11	0	7	0	1	0	13	0	1
10607		4	max	.023	12	0	1	0	1	0	12	0	1	0	12
10608			min	.001	1	0	11	0	7	0	1	0	7	0	1
10609		5	max	.023	12	0	1	0	1	0	12	0	1	0	12
10610			min	.001	1	0	11	0	7	0	1	0	7	0	1
10611	L1062	1	max	0	13	0	1	0	1	0	10	.002	7	0	1
10612			min	0	1	0	7	-.003	7	0	6	0	1	0	13
10613		2	max	0	13	0	1	0	1	0	10	.001	13	0	1
10614			min	0	1	0	7	-.003	7	0	6	0	1	0	13
10615		3	max	0	13	0	1	0	1	0	10	0	13	0	1
10616			min	0	1	0	7	-.003	7	0	6	0	1	0	13
10617		4	max	0	13	0	1	0	1	0	10	0	10	0	7
10618			min	0	1	0	7	-.003	7	0	6	0	7	0	10
10619		5	max	0	13	0	1	0	1	0	10	0	10	0	7
10620			min	0	1	0	7	-.003	7	0	6	0	7	0	10
10621	L1063	1	max	0	10	0	12	0	1	0	12	.003	12	0	12
10622			min	0	7	0	1	-.008	12	0	1	0	1	0	1
10623		2	max	0	10	0	12	0	1	0	12	0	12	0	12
10624			min	0	7	0	1	-.008	12	0	1	0	1	0	1
10625		3	max	0	10	0	12	0	1	0	12	0	1	0	1
10626			min	0	7	0	1	-.008	12	0	1	-.001	12	0	6
10627		4	max	0	10	0	[illegible]	[illegible]	[illegible]	0	12	0	1	0	1
10628			min	0	7	0	1	-.008	12	0	1	-.003	12	0	12
10629		5	max	0	10	0	12	0	1	0	12	0	1	0	1
10630			min	0	7	0	1	-.008	12	0	1	-.005	12	0	12
10631	L1064	1	max	.063	12	.001	6	0	1	0	10	.002	12	0	6
10632			min	.013	1	0	1	-.001	4	0	1	0	1	0	1
10633		2	max	.063	12	.001	6	0	1	0	10	.001	12	0	6
10634			min	.013	1	0	1	-.001	4	0	1	0	1	0	1
10635		3	max	.063	12	.001	6	0	1	0	10	.001	12	0	1
10636			min	.013	1	0	1	-.001	4	0	1	0	1	0	9
10637		4	max	.063	12	.001	6	0	1	0	10	0	12	0	1
10638			min	.013	1	0	1	-.001	4	0	1	0	1	0	12
10639		5	max	.063	12	.001	6	0	1	0	10	0	13	0	1
10640			min	.013	1	0	1	-.001	4	0	1	0	1	0	12
10641	L1065	1	max	.058	12	0	1	0	12	0	8	0	1	0	1
10642			min	.012	1	0	10	0	1	0	1	0	12	0	10
10643		2	max	.058	12	0	1	0	12	0	8	0	1	0	1
10644			min	.012	1	0	10	0	1	0	1	0	12	0	4
10645		3	max	.058	12	0	1	0	12	0	8	0	1	0	11
10646			min	.012	1	0	10	0	1	0	1	0	12	0	6
10647		4	max	.058	12	0	1	0	12	0	8	0	11	0	10
10648			min	.012	1	0	10	0	1	0	1	0	6	0	6
10649		5	max	.058	12	0	1	0	12	0	8	0	13	0	10
10650			min	.012	1	0	10	0	1	0	1	0	1	0	6
10651	L1066	1	max	.057	12	0	1	0	10	0	12	0	7	0	1

lattice compression

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
13148			min	-.836	4	-.951	1	-.591	1	0	1	-.629	1	.009	12
13149		5	max	-.05	12	.073	8	.062	8	0	12	.074	8	.393	1
13150			min	-.836	4	-.951	1	-.591	1	0	1	-.72	1	.009	12
13151	BR1316	1	max	-.05	12	.951	1	.591	1	0	1	.074	8	.393	1
13152			min	-.836	4	-.073	8	-.062	8	0	12	-.72	1	.009	12
13153		2	max	-.05	12	.951	1	.591	1	0	1	.066	8	.371	1
13154			min	-.836	4	-.073	8	-.062	8	0	12	-.629	1	.009	12
13155		3	max	-.05	12	.95	1	.591	1	0	1	.058	8	.35	1
13156			min	-.836	4	-.074	8	-.062	8	0	12	-.537	1	.008	12
13157		4	max	-.05	12	.95	1	.591	1	0	1	.05	8	.328	1
13158			min	-.836	4	-.074	8	-.062	8	0	12	-.446	1	.008	12
13159		5	max	-.05	12	.949	1	.591	1	0	1	.042	8	.307	1
13160			min	-.836	4	-.074	8	-.062	8	0	12	-.354	1	.008	12
13161	BR1317	1	max	-.052	12	.747	1	.521	1	0	10	.045	8	.241	1
13162			min	-.908	4	-.062	8	-.062	8	-.002	1	-.386	1	.007	12
13163		2	max	-.052	12	.746	1	.521	1	0	10	.041	8	.234	1
13164			min	-.908	4	-.062	8	-.062	8	-.002	1	-.349	1	.007	12
13165		3	max	-.052	12	.746	1	.521	1	0	10	.038	8	.228	1
13166			min	-.908	4	-.062	8	-.062	8	-.002	1	-.311	1	.007	12
13167		4	max	-.052	12	[illegible]	[illegible]	[illegible]	[illegible]	0	10	.034	8	.221	1
13168			min	-.908	4	[illegible]	[illegible]	[illegible]	[illegible]	-.002	1	-.273	1	.007	12
13169		5	max	-.052	12	[illegible]	[illegible]	[illegible]	[illegible]	0	10	.03	8	.214	1
13170			min	-.908	4	-.063	8	-.062	8	-.002	1	-.236	1	.007	12
13171	BR1318	1	max	-.048	12	.115	8	.052	10	0	1	.027	10	.23	1
13172			min	-.853	4	-.848	1	-.54	1	0	8	-.22	1	-.072	8
13173		2	max	-.048	12	.115	8	.052	10	0	1	.037	10	.249	1
13174			min	-.853	4	-.849	1	-.54	1	0	8	-.302	1	-.076	8
13175		3	max	-.048	12	.114	8	.052	10	0	1	.047	10	.267	1
13176			min	-.853	4	-.849	1	-.54	1	0	8	-.385	1	-.08	8
13177		4	max	-.048	12	.114	8	.052	10	0	1	.057	10	.285	1
13178			min	-.853	4	-.85	1	-.54	1	0	8	-.467	1	-.083	8
13179		5	max	-.048	12	.114	8	.052	10	0	1	.066	10	.304	1
13180			min	-.853	4	-.85	1	-.54	1	0	8	-.55	1	-.087	8
13181	BR1319	1	max	-.045	12	.139	8	.077	8	0	10	.062	10	.368	1
13182			min	-.774	4	-1.035	1	-.693	1	-.003	1	-.514	1	-.095	8
13183		2	max	-.045	12	.139	8	.077	8	0	10	.068	10	.378	1
13184			min	-.774	4	-1.035	1	-.693	1	-.003	1	-.565	1	-.097	8
13185		3	max	-.045	12	.138	8	.077	8	0	10	.074	10	.388	1
13186			min	-.774	4	-1.035	1	-.693	1	-.003	1	-.616	1	-.099	8
13187		4	max	-.045	12	.138	8	.077	8	0	10	.081	10	.399	1
13188			min	-.774	4	-1.036	1	-.693	1	-.003	1	-.668	1	-.101	8
13189		5	max	-.045	12	.138	8	.077	8	0	10	.087	10	.409	1
13190			min	-.774	4	-1.036	1	-.693	1	-.003	1	-.719	1	-.103	8
13191	BR1320	1	max	-.044	12	1.036	1	.693	1	.003	1	.081	10	.409	1
13192			min	-.758	4	-.145	10	-.117	10	0	8	-.719	1	-.116	10
13193		2	max	-.044	12	1.036	1	.693	1	.003	1	.073	10	.399	1
13194			min	-.758	4	-.145	10	-.117	10	0	8	-.668	1	-.115	10
13195		3	max	-.044	12	1.035	1	.693	1	.003	1	.066	10	.388	1
13196			min	-.758	4	-.145	10	-.117	10	0	8	-.616	1	-.114	10
13197		4	max	-.044	12	1.035	1	.693	1	.003	1	.058	10	.378	1
13198			min	-.758	4	-.146	10	-.117	10	0	8	-.565	1	-.113	10
13199		5	max	-.044	12	1.035	1	.693	1	.003	1	.05	10	.368	1

tension load from blocking

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
13252			min	-.833	4	-.848	1	-.54	1	0	10	-.22	1	-.09	10
13253		2	max	-.044	12	.126	10	.072	10	0	1	.021	8	.249	1
13254			min	-.833	4	-.849	1	-.54	1	0	10	-.302	1	-.093	10
13255		3	max	-.044	12	.126	10	.072	10	0	1	.031	10	.267	1
13256			min	-.833	4	-.849	1	-.54	1	0	10	-.385	1	-.096	10
13257		4	max	-.044	12	.126	10	.072	10	0	1	.043	10	.285	1
13258			min	-.833	4	-.85	1	-.54	1	0	10	-.467	1	-.1	10
13259		5	max	-.044	12	.125	10	.072	10	0	1	.055	10	.304	1
13260			min	-.833	4	-.85	1	-.54	1	0	10	-.55	1	-.103	10
13261	BR1327	1	max	-.044	12	.146	10	.117	10	0	8	.05	10	.368	1
13262			min	-.758	4	-1.035	1	-.693	1	-.003	1	-.514	1	-.113	10
13263		2	max	-.044	12	.146	10	.117	10	0	8	.058	10	.378	1
13264			min	-.758	4	-1.035	1	-.693	1	-.003	1	-.565	1	-.114	10
13265		3	max	-.044	12	.145	10	.117	10	0	8	.066	10	.388	1
13266			min	-.758	4	-1.035	1	-.693	1	-.003	1	-.616	1	-.114	10
13267		4	max	-.044	12	.145	10	.117	10	0	8	.073	10	.399	1
13268			min	-.758	4	-1.036	1	-.693	1	-.003	1	-.668	1	-.115	10
13269		5	max	-.044	12	.145	10	.117	10	0	8	.081	10	.409	1
13270			min	-.758	4	-1.036	1	-.693	1	-.003	1	-.719	1	-.116	10
13271	BR1328	1	max	-.045	12	1.036	1	.693	1	.003	1	.087	10	.409	1
13272			min	-.774	4	-.138	8	-.077	8	0	10	-.719	1	-.103	8
13273		2	max	-.045	12	1.036	1	.693	1	.003	1	.081	10	.399	1
13274			min	-.774	4	-.138	8	-.077	8	0	10	-.668	1	-.101	8
13275		3	max	-.045	12	1.035	1	.693	1	.003	1	.074	10	.388	1
13276			min	-.774	4	-.139	8	-.077	8	0	10	-.616	1	-.099	8
13277		4	max	-.045	12	1.035	1	.693	1	.003	1	.068	10	.378	1
13278			min	-.774	4	-.139	8	-.077	8	0	10	-.565	1	-.097	8
13279		5	max	-.045	12	1.035	1	.693	1	.003	1	.062	10	.368	1
13280			min	-.774	4	-.139	8	-.077	8	0	10	-.514	1	-.095	8
13281	BR1329	1	max	-.048	12	.85	1	.54	1	0	8	.066	10	.304	1
13282			min	-.853	4	-.114	8	-.052	10	0	1	-.55	1	-.087	8
13283		2	max	-.048	12	.85	1	.54	1	0	8	.057	10	.285	1
13284			min	-.853	4	-.114	8	-.052	10	0	1	-.467	1	-.083	8
13285		3	max	-.048	12	.849	1	.54	1	0	8	.047	10	.267	1
13286			min	-.853	4	-.114	8	-.052	10	0	1	-.385	1	-.08	8
13287		4	max	-.048	12	.849	1	.54	1	0	8	.037	10	.249	1
13288			min	-.853	4	-.115	8	-.052	10	0	1	-.302	1	-.076	8
13289		5	max	-.048	12	.848	1	.54	1	0	8	.027	10	.23	1
13290			min	-.853	4	-.115	8	-.052	10	0	1	-.22	1	-.072	8

Envelope Wood Code Checks

	Member	Shape	Code ...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	Fc' [ksi]	Ft' [ksi]	Fb1' [...	Fb2' [...	Fv' [ksi]	RB	CL	CP	Eqn
1	RNG1	4X5	.882	0	1	.606	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
2	RNG2	4X5	.489	0	1	.652	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.207	.861	1	1	3.9-1
3	RNG3	4X5	.351	0	1	1.019	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.207	1.217	1	.999	3.9-1
4	RNG4	4X5	.555	.336	1	.778	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
5	RNG5	4X5	.686	.336	1	.370	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
6	RNG6	4X5	.688	0	1	.126	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
7	RNG7	4X5	.642	0	1	.581	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
8	RNG8	4X5	.427	0	1	.922	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1

ring bending and axial check

Envelope Wood Code Checks (Continued)

	Member	Shape	Code ...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	Fc' [ksi]	Ft' [ksi]	Fb1' [...	Fb2' [...	Fv' [ksi]	RB	CL	CP	Eqn
9	RNG9	4X5	.631	.337	1	1.048	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
10	RNG10	4X5	.675	.336	1	.469	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
11	RNG11	4X5	.893	.168	1	1.069	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
12	RNG12	4X5	.675	0	1	.469	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
13	RNG13	4X5	.631	0	1	1.048	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
14	RNG14	4X5	.427	.336	1	.922	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
15	RNG15	4X5	.642	.337	1	.581	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
16	RNG16	4X5	.688	.336	1	.126	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
17	RNG17	4X5	.686	0	1	.370	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
18	RNG18	4X5	.555	0	1	.778	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
19	RNG19	4X5	.351	.336	1	1.019	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
20	RNG20	4X5	.647	.168	1	.995	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
21	RNG21	4X5	.882	.336	1	.606	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
22	RNG22	4X5	.882	0	1	.606	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
23	RNG23	4X5	.489	0	1	.652	0	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
24	RNG24	4X5	.351	0	1	1.019	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
25	RNG25	4X5	.555	.336	1	.778	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
26	RNG26	4X5	.686	.336	1	.370	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
27	RNG27	4X5	.688	0	1	.126	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
28	RNG28	4X5	.642	0	1	.581	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
29	RNG29	4X5	.427	0	1	.922	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
30	RNG30	4X5	.631	.337	1	1.048	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
31	RNG31	4X5	.675	.336	1	.469	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
32	RNG32	4X5	.893	.168	1	1.069	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
33	RNG33	4X5	.675	0	1	.469	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
34	RNG34	4X5	.631	0	1	1.048	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
35	RNG35	4X5	.427	.336	1	.922	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
36	RNG36	4X5	.642	.337	1	.581	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
37	RNG37	4X5	.688	.336	1	.126	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
38	RNG38	4X5	.686	0	1	.370	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
39	RNG39	4X5	.555	0	1	.778	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
40	RNG40	4X5	.351	.336	1	1.019	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
41	RNG41	4X5	.647	.168	1	.995	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
42	RNG42	4X5	.882	.336	1	.606	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
43	ST1	2X4	.179	7	1	.027	0	y	9	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
44	ST2	2X4	.178	7	1	.035	0	y	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
45	ST3	2X4	.178	7	1	.046	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
46	ST4	2X4	.178	7	1	.048	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
47	ST5	2X4	.178	7	1	.040	6[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.859	3.273	.288	11.431	.961	.298	3.6.3
48	ST6	2X4	.177	7	1	.047	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
49	ST7	2X4	.177	7	1	.053	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
50	ST8	2X4	.178	7	1	.057	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
51	ST9	2X4	.178	7	1	.063	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
52	ST10	2X4	.178	7	1	.071	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
53	ST11	2X4	.179	7	1	.076	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
54	ST12	2X4	.179	7	1	.075	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
55	ST13	2X4	.178	7	1	.068	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
56	ST14	2X4	.178	7	1	.067	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
57	ST15	2X4	.178	7	1	.063	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
58	ST16	2X4	.177	7	1	.059	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
59	ST17	2X4	.177	7	1	.054	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
60	ST18	2X4	.178	7	1	.046	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3

ring shear checks

stud unity check

Envelope Wood Code Checks (Continued)

	Member	Shape	Code ...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	Fc' [ksi]	Ft' [ksi]	Fb1' [...	Fb2' [...	Fv' [ksi]	RB	CL	CP	Eqn
61	ST19	2X4	.178	7	1	.054	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
62	ST20	2X4	.178	7	1	.053	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
63	ST21	2X4	.178	7	1	.043	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
64	ST22	2X4	.179	7	1	.041	7	y	8	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
65	ST23	2X4	.178	7	1	.043	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
66	ST24	2X4	.178	7	1	.053	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
67	ST25	2X4	.178	7	1	.054	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
68	ST26	2X4	.178	7	1	.046	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
69	ST27	2X4	.177	7	1	.054	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
70	ST28	2X4	.177	7	1	.059	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
71	ST29	2X4	.178	7	1	.063	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
72	ST30	2X4	.178	7	1	.068	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
73	ST31	2X4	.178	7	1	.068	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
74	ST32	2X4	.179	7	1	.075	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
75	ST33	2X4	.179	7	1	.076	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
76	ST34	2X4	.178	7	1	.071	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
77	ST35	2X4	.178	7	1	.063	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
78	ST36	2X4	.178	7	1	.057	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
79	ST37	2X4	.177	7	1	.052	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
80	ST38	2X4	.177	7	1	.047	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
81	ST39	2X4	.178	7	1	.040	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
82	ST40	2X4	.178	7	1	.048	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
83	ST41	2X4	.178	7	1	.046	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
84	ST42	2X4	.178	7	1	.035	0	y	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
85	R1	2X6	.862	6.25	1	.452	11.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]198	2.579	.207	10.488	.98	.274	3.9-3
86	R2	2X6	.862	6.25	1	.484	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
87	R3	2X6	.862	6.25	1	.505	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
88	R4	2X6	.862	6.251	1	.508	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
89	R5	2X6	.862	6.251	1	.490	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
90	R6	2X6	.862	6.25	1	.460	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
91	R7	2X6	.862	6.25	1	.476	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
92	R8	2X6	.862	6.25	1	.501	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
93	R9	2X6	.862	6.25	1	.509	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
94	R10	2X6	.862	6.25	1	.493	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
95	R11	2X6	.862	6.25	1	.470	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
96	R12	2X6	.862	6.25	1	.470	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
97	R13	2X6	.862	6.25	1	.493	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
98	R14	2X6	.862	6.25	1	.509	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
99	R15	2X6	.862	6.25	1	.501	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
100	R16	2X6	.862	6.25	1	.476	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
101	R17	2X6	.862	6.25	1	.460	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
102	R18	2X6	.862	6.251	1	.490	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
103	R19	2X6	.862	6.251	1	.508	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
104	R20	2X6	.862	6.25	1	.505	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
105	R21	2X6	.862	6.25	1	.484	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
106	R22	2X6	.862	6.25	1	.452	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
107	R23	2X6	.862	6.25	1	.484	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
108	R24	2X6	.862	6.25	1	.505	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
109	R25	2X6	.862	6.251	1	.508	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
110	R26	2X6	.862	6.251	1	.490	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
111	R27	2X6	.862	6.25	1	.460	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
112	R28	2X6	.862	6.25	1	.476	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3

rafter unity check

LEWIS &

VAN VLEET

incorporated

principals
gary j. lewis, p.e., s.e.
scott r. debo, mba

STRUCTURAL CALCULATIONS
FOR
24' Diameter Yurt with Center Post

2018 International Building Code / ASCE 7-16 / Snow Load: 90 psf / Wind: 142 mph Ult., Exposure C

PREPARED FOR

Pacific Yurts, Inc.

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 15,099 OREGON JAN. 23, 2001 GARY JAMES LEWIS

EXPIRES 12-31-2020

REFERENCE ONLY
NOT FOR CONSTRUCTION

Lewis & Van Vleet Inc. Job Number 20033

NOTE: THESE CALCULATIONS WERE PREPARED TO DOCUMENT THE WIND AND GRAVITY LOAD CAPACITY OF A PROTOTYPE 24' DIAMETER YURT WITH CENTER POST FOR PACIFIC YURTS, INC. THE CALCULATIONS ARE NOT TO BE USED AS FINAL DESIGN CALCULATIONS FOR YURT INSTALLATIONS, OR AS PART OF A BUILDING DEPARTMENT PERMIT SUBMITTAL PACKAGE. SITE SPECIFIC DESIGNS MUST BE PREPARED CONSIDERING LOCAL LOADS AND CONDITIONS, BY AN ENGINEER LICENSED WITHIN THE LOCAL JUSIDICTION OF THE SITE. UNLESS THESE CALCULATIONS ARE WET-SIGNED IN RED INK FOR A SPECIFIC PROJECT LOCATION, LVI HAS NOT REVIEWED THE SITE SPECIFIC CONDITION, HAS NOT BEEN COMPENSATED FOR THE USE OF THE DESIGN, AND DISCLAIMS ALL LIABILITY FOR ANY SUCH UNAUTHORIZED USE.

consulting engineers
18660 s.w. boones ferry road
tualatin, oregon 97062
(503) 885-8605 phone
(503) 885-1206 fax

LEWIS & VAN VLEET

consulting engineers

18660 sw boones ferry rd.
tualatin, oregon 97062
(503) 885.8605 phone (503) 885.1206 fax

24' YURT with center post:

DEFINE UNITS: $psi := \frac{lbf}{in^2}$ $plf := \frac{lbf}{ft}$ $ksi := \frac{kip}{in^2}$ $psf := \frac{lbf}{ft^2}$

~~~~~~

SNOW LOAD: Design for 90 psf snow over vertical projected area. Use 10 psf unit load for RISA 3D Basic Load case input value -- Use 9.0 factor in Load Combinations for full snow, 6.75 factor for 0.75 snow.

$P_{snow} := 10 \cdot psf$

Snow load on rafters: At ring end: $w_{top} := P_{snow} \cdot .35 \cdot ft$ $w_{top} = 3.5\ plf$

At eave end: $w_{bottom} := P_{snow} \cdot 1.79 \cdot ft$ $w_{bottom} = 17.9\ plf$

Snow load on ring: $w_{ring} := P_{snow} \cdot \frac{\frac{\pi \cdot (4.5 \cdot ft)^2}{4}}{2 \cdot \pi \cdot \frac{4.5 \cdot ft}{2}}$ $w_{ring} = 11.3\ plf$

find ground snow load equal to 90 psf roof load:

assume yurt is unheated: $C_t := 1.2$

assume exposure C terrain, sheltered: $C_e := 1.2$

importance factor: $I_s := 1.0$

roof slope = 29.4 deg, slippery surface: $C_s := .77$

ground snow load: $\frac{90 \cdot psf}{.7 \cdot C_e \cdot C_t \cdot I_s \cdot C_s} = 116\ psf$ 116 psf ground snow OK

Rafter unbraced lengths: Use distance between nodes for weak axis unbraced length. Use distance from ring to inside face of stud for strong axis Lu.
~~~~~~

WIND LOAD:

Use ASCE 7-16 design method for domed structures,
Risk Category II structure, no terrain effects, Kzt=0.
Design for 110 mph exposure C.
See Sheet S-3.

SEISMIC LOAD:

Due to high design wind load
and lightweight mass of the
yurt structure, seismic does
not control lateral design.

MEMBERS USED

RAFTERS: 2x6 select structural

STUDS: 2x4 select structural DF

RING: 4x5 Number 1 DF

CABLE: 1/4" diameter aircraft cable

LATH: 7/16" x 1 1/2" kiln dried DF#1

$l_e := 0.82 \cdot 23.5 \cdot in$ $\quad d := \frac{7}{16} \cdot in$

$\frac{l_e}{d} = 44$ $\quad$ < 50 OK

CENTER POST: HSS 4x4x.188 with (4) HSS 3x3x.188 to ring and L4x4x1/4 brackets

WIND LOAD - 142 MPH EXPOSURE C:

Assume no topographic effects.
Roof angle = 42.7 degrees

$K_z := 0.85$

$K_{zt} := 1.0$

$K_d := 0.95$

$V := 142$

$I := 1.0$

$q_z := .6 \cdot .00256 \cdot K_z \cdot K_{zt} \cdot K_d \cdot V^2 \cdot psf$ $\qquad q_z = 25\ \boldsymbol{psf}$

TOTAL DRAG LOAD ON WALLS: ASCE 7-16 Fig. 29.4-1

$G := 0.85$ (rigid structure) Moderately Smooth

Cf: h/d = 12.33'/24'
h/d = .51
D*(qz)^.5 = 24*(25)^.5 = 120

Therefore, $C_f := 0.5$

$p := q_z \cdot G \cdot C_f$

$p = 10.6\ \boldsymbol{psf}$

LOAD ON WINDWARD SIDE

10.6 psf *.6= 6.4 psf

LOAD ON LEEWARD SIDE

10.6 psf *.4= 4.2 psf

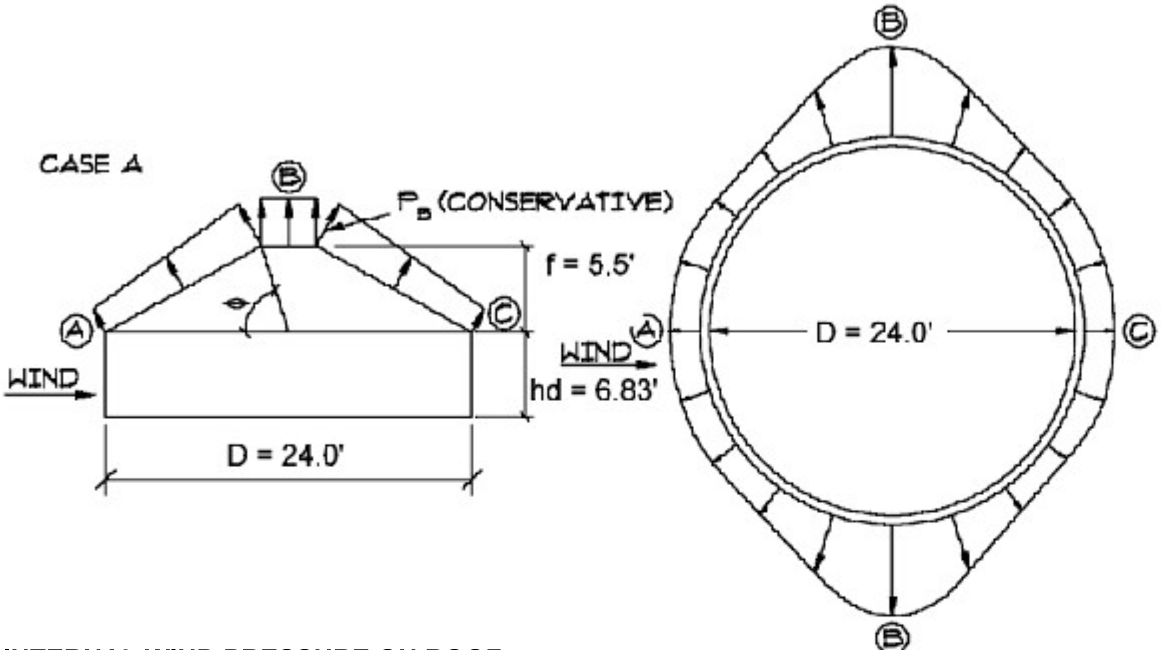
WIND PRESSURE ON ROOF:

$q_{unit} := 10 \cdot psf$

p=qp*G*Cp-qi*(G*Cpi)

Use domed mwfrs roof pressures per Figure 27.3-2

WIND ON DOME:



INTERNAL WIND PRESSURE ON ROOF

$GC_{pi} := 0.18$

$q_{unit} \cdot GC_{pi} = 1.8\ psf$

EXTERNAL WIND PRESSURE ON ROOF

$G = 0.85$ $\quad h_d := 6.83 \cdot ft$ $\quad D := 24 \cdot ft$ $\quad f := 5.50 \cdot ft$

$\frac{h_d}{D} = 0.28$ $\quad \frac{f}{D} = 0.23$

Cp POINT A

f/D	hd/D = 0.25	hd/D = 1.0	hd/D = 0.44
0.2	-0.675	- 1.567	- 0.71
0.3	-0.190	- 1.450	- 0.24

AT f / D = 0.23, $\quad C_{pA} := -0.57$

EXTERNAL WIND PRESSURE ON ROOF:

Cp POINT B

f/D	hd/D = 0	hd/D = 0.25	hd/D = 0.23
0.1	- 0.35	- 0.80	- 0.60
0.2	- 0.52	- 1.28	- 0.95

AT f / D = 0.18, $C_{pB} := -0.88$

Cp POINT C

hd/D = 0	hd/D = 0.50	hd/D = 0.28
0	-0.50	-0.28

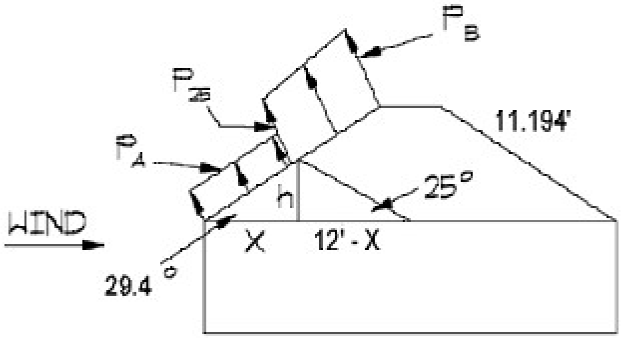
$C_{pC} := -0.28$

EXTERNAL WIND PRESSURE ON ROOF AT POINTS A, B, & C:

$P_A := q_{unit} \cdot G \cdot C_{pA} - q_{unit} \cdot GC_{pi}$ $P_A = -6.6$ ***psf***

$P_B := q_{unit} \cdot G \cdot C_{pB} - q_{unit} \cdot GC_{pi}$ $P_B = -9.3$ ***psf***

$P_C := q_{unit} \cdot G \cdot C_{pC} - q_{unit} \cdot GC_{pi}$ $P_C = -4.2$ ***psf***



TAN 25 = h / (12 - X) = 0.466
TAN 29.4 = h / X = 0.563
h = 0.466 (12') - 0.466X = 5.6' - 0.466X
0.563 = (5.6' - 0.466X) / X
X = 5.44'

P25 IS LOCATED AT 5.44' / cos 29.4 = 6.25' HORIZ.
P25 = - 8.1 PSF
TRIB. = 0.35 + 1.44*[(11.194' - 4.944'') / 11.194']
= 1.15' UP ROOF SLOPE

WIND LOAD AT TOP OF RAFTER:

P = 10.1 PSF
w = 10.1 PSF (0.28') / (1000 LB / K) = 0.003 K / FT

WIND LOAD ON RING:

A = PI (4.5')^2 / 4 = 15.9 SQ. FT.
C = PI (4.5') = 14.1'
w = 10.1 PSF (15.9 SQ. FT. / 14.1') / (1000 LB / K) = 0.011 K / FT

WIND LOAD ON WALLS:

TOTAL DRAG LOAD ON WALLS:

P = q unit *[G*Cf]
h / D = 12.33' / 30' = 0.51
D*(q unit)^.5= 24'*(10)^.5 = 76 > 25
THEREFORE Cf = 0.5

$C_f = 0.5$

$P_w := q_{unit} \cdot G \cdot C_f$ $\qquad P_w = 4.3\ psf$

LOAD ON WINDWARD WALLS:

$P_{www} := .6 \cdot P_w$ $\qquad P_{www} = 2.6\ psf$

LOAD ON LEEWARD WALLS:

$P_{lww} := .4 \cdot P_w$ $\qquad P_{lww} = 1.7\ psf$

WIND TORSION - WIND CASE 2:

CHECK DESIGN WIND LOAD CASES FROM FIGURE 27.3-8. LOAD CASE 1 FULL FACE DESIGN PRESSURES FROM SHEET S-6. BY INSPECTION, DESIGN WIND LOAD CASES 3 & 4 ARE NOT APPLICABLE TO ROUND STRUCTURES. CHECK DESIGN WIND LOAD CASE 2 BY APPLYING RISA 3D LOAD CASE FACTORS OF 0.75 TO FULL FACE DESIGN BASIC LOAD CASE AND TO TORSIONAL LOAD CASE CALCULATED WITHOUT THE 0.75 FACTOR OF FIGURE 27.3-8. CALCULATE FULL TORSIONAL MOMENT AND APPLY AS A RADIAL FORCE TO THE TOPS OF STUDS AT THE YURT PERIMETER.

SINCE YURT IS A ROUND STRUCTURE, BX = BY AND eX = eY.
CALCULATE USING B AND e VARIABLES.

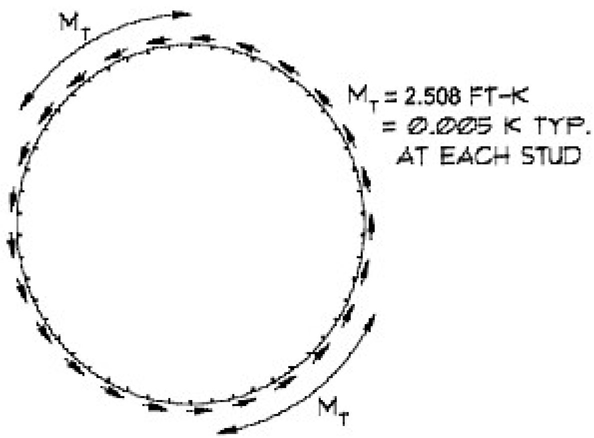
$B := 24 \cdot ft$ $\qquad e := 0.15 \cdot B$ $\qquad e = 3.6\ ft$

$M_T := P_w \cdot B \cdot e$ $\qquad M_T = 367\ \frac{ft \cdot lbf}{ft}$

$M_{Ttotal} := M_T \cdot (6.83 \cdot ft)$ $\qquad M_{Ttotal} = 2508\ ft \cdot lbf$

FIND EQUIVALENT LOAD AT EACH STUD:

$T_{stud} := \frac{M_{Ttotal}}{42 \cdot 12 \cdot ft}$ $\qquad T_{stud} = 0.005\ kip$



LOAD COMBINATION FACTORS IN RISA 3D FILE: FOR 40 PSF PROTOTYPE SNOW WIND q = 25 PSF, AND CALCULATION UNIT SNOW AND WIND LOADS = 10 PSF, FULL SNOW LOAD COMBINATION FACTOR = 40 PSF/10 PSF =4.0, WIND LOAD FACTORS = 25 PSF / 10 PSF = 2.5

CASES A & B FROM FIGURE 27.4-2 ARE CONSIDERED IN BASIC LOAD CASE INPUT. CASES 1 & 2 FROM FIGURE 27.4-8 ARE CONSIDERED IN LOAD FACTORS FOR TORSION LOAD CASES (1.0 FOR CASE 1, 0.75 FOR CASE 2)

WIND LOAD ON RAFTERS 24' YURT

2018 IBC/ASCE 7-16

ASCE WIND CONDITION A, AT PERIMETER OF YURT

wind pressures, q_z = 10 psf

p_A= -6.6 psf p_B= -9.3 psf

p_C= -4.1 psf

WINDWARD SIDE wind load A= $[p_A$+(projected trib/actual trib)*$(p_B-p_A)]$*actual trib

rafter	adj. node 1	adj. node 2	proj. trib.	actual trib.	wind load (klf) cond. A
R22	-11.866	-11.866	0	1.789	-0.012
R21 R23	-11.467	-12	0.267	1.789	-0.013
R20 R24	-10.812	-11.866	0.527	1.789	-0.013
R19 R25	-9.915	-11.467	0.776	1.789	-0.014
R18 R26	-8.797	-10.812	1.008	1.789	-0.015
R17 R27	-7.482	-9.915	1.217	1.789	-0.015
R16 R28	-6	-8.797	1.399	1.789	-0.016
R15 R29	-4.384	-7.482	1.549	1.789	-0.016
R14 R30	-2.67	-6	1.665	1.789	-0.016
R13 R31	-0.897	-4.384	1.744	1.789	-0.017
R12 R32	0.897	-2.67	1.784	1.789	-0.017

WIND LOAD ON RAFTERS 24' YURT

2018 IBC/ASCE 7-16

ASCE WIND CONDITION A, AT PERIMETER OF YURT

LEEWARD SIDE wind load= Tmax = 2.1 kips, load case 1, OK

rafter	adj. node 1	adj. node 2	proj. trib.	actual trib.	wind load (klf)
R1	-11.866	-11.866	0	1.789	-0.007
R2 R42	-11.467	-12	0.2665	1.789	-0.009
R3 R41	-10.812	-11.866	0.527	1.789	-0.010
R4 R40	-9.915	-11.467	0.776	1.789	-0.011
R5 R39	-8.797	-10.812	1.008	1.789	-0.013
R6 R38	-7.482	-9.915	1.217	1.789	-0.014
R7 R37	-6	-8.797	1.399	1.789	-0.015
R8 R36	-4.384	-7.482	1.549	1.789	-0.015
R9 R35	-2.67	-6	1.665	1.789	-0.016
R10 R34	-0.897	-4.384	1.744	1.789	-0.016
R11 R33	0.897	-2.67	1.784	1.789	-0.017

WIND LOAD ON RAFTERS 24' YURT

2018 IBC/ASCE 7-16

ASCE WIND CONDITION B, AT 6.25' UP RAFTER

wind pressures, q_z = 10 psf

p_A= -6.6 psf p_B= -9.3 psf

p_C= -4.2 psf $P_{25\ deg}$= -8.9 psf

WINDWARD SIDE wind load below= $[p_A$+(projected trib/actual trib)*$(p_B$-$p_A)]$*1.15 ft

wind load above= $[p_{25\ deg}$+(projected trib/actual trib)*$(p_B$-$p_{25\ deg})]$*1.15 ft

rafter	adj. node 1	adj. node 2	proj. trib.	actual trib.	wind load (klf) below	wind load (klf) above
R22	-11.866	-11.866	0	1.789	-0.008	-0.010
R21 R23	-11.467	-12	0.267	1.789	-0.008	-0.010
R20 R24	-10.812	-11.866	0.527	1.789	-0.009	-0.010
R19 R25	-9.915	-11.467	0.776	1.789	-0.009	-0.010
R18 R26	-8.797	-10.812	1.008	1.789	-0.009	-0.010
R17 R27	-7.482	-9.915	1.217	1.789	-0.010	-0.011
R16 R28	-6	-8.797	1.399	1.789	-0.010	-0.011
R15 R29	-4.384	-7.482	1.549	1.789	-0.010	-0.011
R14 R30	-2.67	-6	1.665	1.789	-0.010	-0.011
R13 R31	-0.897	-4.384	1.744	1.789	-0.011	-0.011
R12 R32	0.897	-2.67	1.784	1.789	-0.011	-0.011

LEWIS & VAN VLEET

2018 IBC/ASCE 7-16

calc. the projected Z axis tributary width

wind pressures, q_z = 10 psf

$p_{windward}$= 2.56 psf

$p_{leeward}$= 1.69 psf

node 1	node 2	projected tib.	windward studs	windward load (klf)	leeward studs	leeward load (klf)
1.789	-1.789	1.789	ST22 ST65	0.0046	ST1 ST44	0.0030
3.537	0	1.7685	ST21 ST64 ST23 ST66	0.0045	ST2 ST45 ST42 ST85	0.0030
5.207	1.789	1.709	ST20 ST63 ST24 ST67	0.0044	ST3 ST46 ST41 ST84	0.0029
6.76	3.537	1.6115	ST19 ST62 ST25 ST68	0.0041	ST4 ST47 ST40 ST83	0.0027
8.162	5.207	1.4775	ST18 ST61 ST26 ST69	0.0038	ST5 ST48 ST39 ST82	0.0025
9.382	6.76	1.311	ST17 ST60 ST27 ST70	0.0034	ST6 ST49 ST38 ST81	0.0022
10.392	8.162	1.115	ST16 ST59 ST28 ST71	0.0029	ST7 ST50 ST37 ST80	0.0019
11.17	9.382	0.894	ST15 ST58 ST29 ST72	0.0023	ST8 ST51 ST36 ST79	0.0015
11.699	10.392	0.6535	ST14 ST57 ST30 ST73	0.0017	ST9 ST52 ST35 ST78	0.0011
11.966	11.17	0.398	ST13 ST56 ST31 ST74	0.0010	ST10 ST53 ST34 ST77	0.0007

LEWIS & VAN VLEET

WIND LOAD ON STUDS 30' YURT **S-12**

2018 IBC/ASCE 7-16

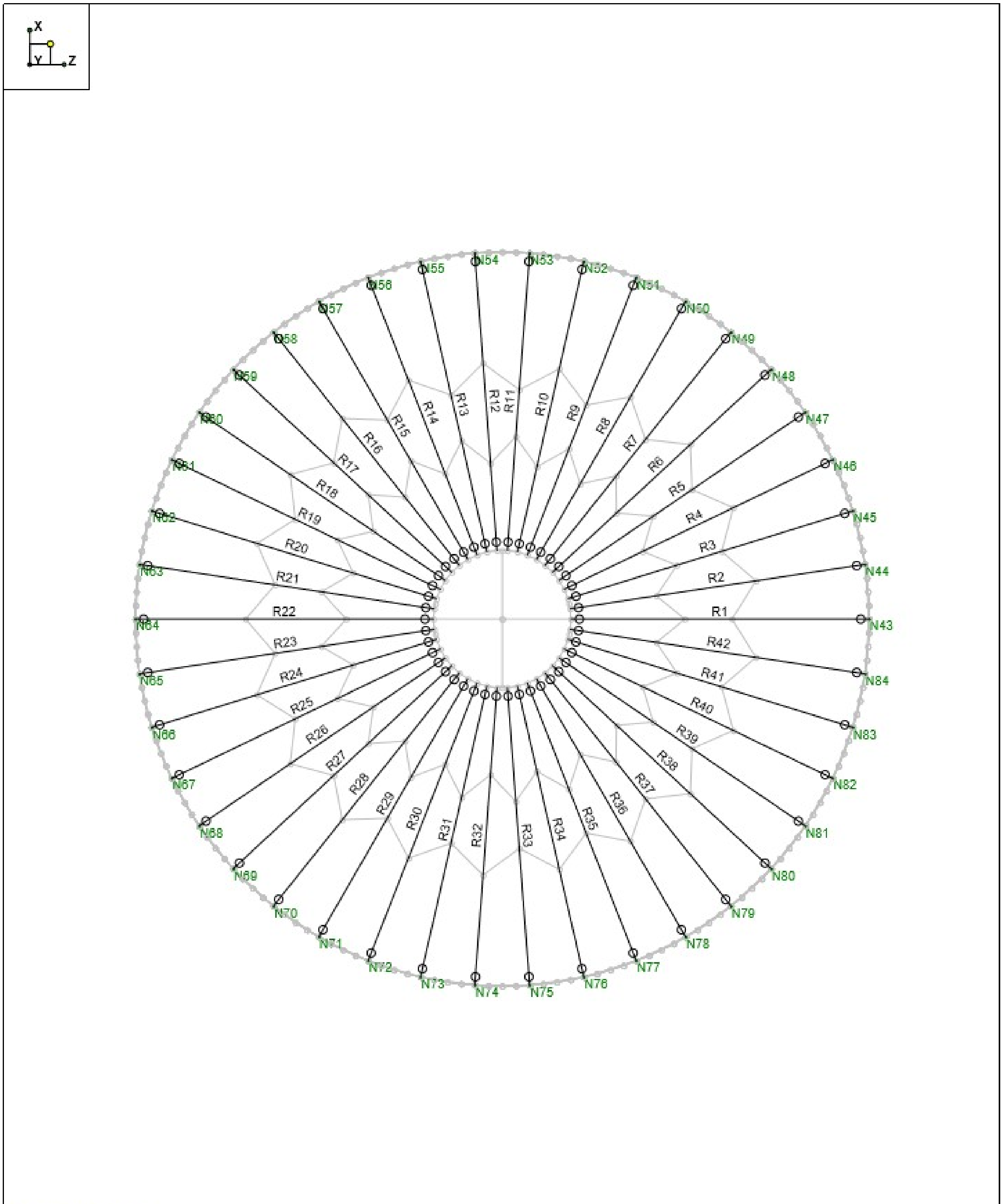
calc. the projected Z axis tributary width

wind pressures, q_z = 10 psf

$p_{windward}$= 2.56 psf

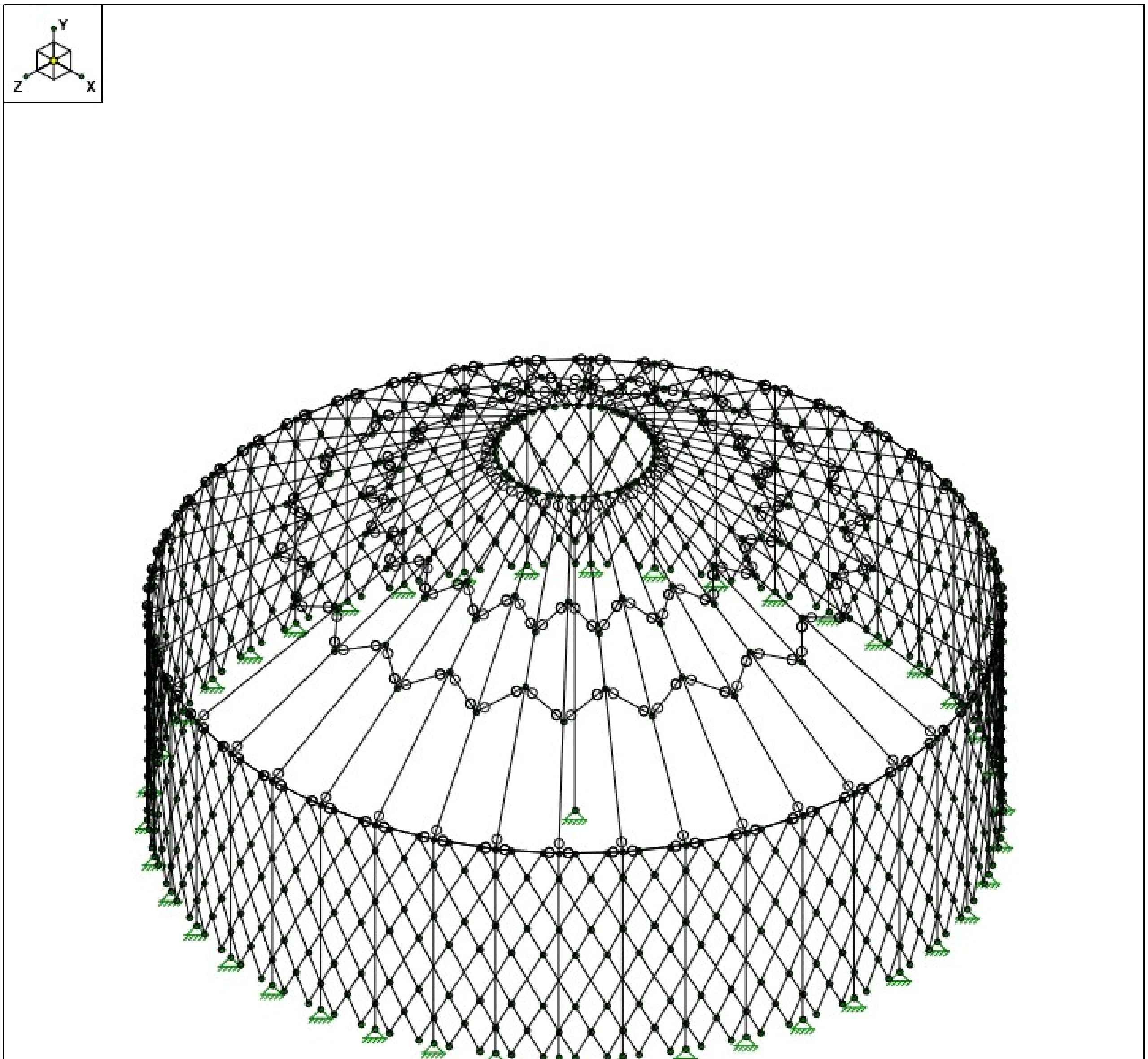
$p_{leeward}$= 1.69 psf

node 1	node 2	projected tib.	windward studs	windward load (klf)	leeward studs	leeward load (klf)
11.966	11.699	0.1335	ST12 ST55 ST32 ST75	0.0003	ST11 ST54 ST33 ST76	0.0002



Envelope Only Solution

Lewis & Van Vleet , Inc.	24' YURT - ASCE 7-16 - 90 psf - Ctr. Post	SK - 2
GJL		Mar 21, 2020 at 12:26 PM
		24' yurt - ASCE 7-16- 90 psf - Ctr ...



Envelope Only Solution

Lewis & Van Vleet , Inc.	24' YURT - ASCE 7-16 - 90 psf - Ctr. Post	SK - 1
GJL		Mar 21, 2020 at 12:25 PM
		24' yurt - ASCE 7-16- 90 psf - Ctr ...

RESULTS:

LOAD CASES CHECKED: D=DEAD LOAD, S=SNOW LOAD, W=WIND LOAD

1) D+S
2) .6D+W cases A, 1
3) .6D+W cases A,2
4) .6D+W cases B,1
5) .6D+W cases B,2
6) .6D+W cases note 7,1
7) .6D+W cases note 7,2
8) D+.75S+.75W cases A,1
9) D+.75S+.75W cases A,2
10) D+.75S+.75W cases B,1
11) D+.75S+.75W cases B,2
12) D+.75S+.75W cases note 7,1
13) D+.75S+.75W cases note 7,2

Rafter: unity check = 0.862 -*OK,* load case 1, see page 315 full RISA output

Stud: unity check = .179 -*OK*, load case 1, see page 314 full RISA output

Ring: unity check = 0.821 bending and axial, 1.048 shear, load case 1, see page 313, 314 of RISA output -- Note: unity shear check at members 11 and 32 is 1.069, but those members are at centers of support angle brackets -- OK

Cable: Tall = 4.2 kips / 2.2 = 1.91 kips
Tmax = .908+ 0.385 = 1.293 kips -*OK* (combined tension from blocking and cable - pgs. 311 and 65 of RISA output)

Center Post: $P := 16.3 \cdot kip$

$klu := 9.3 \cdot ft$

allowable axial load=51.4 kips, HSS 4x4x3/16 OK

Lattice: load case wind

$T_{max} := 51 \cdot lbf$ member M614, load case 12 (pg. 176 of full RISA output)

$f_t := \dfrac{T_{max}}{\frac{7}{16} \cdot in \cdot 1.5 \cdot in}$ $f_t = 78\ psi$

$F_t := 775 \cdot psi \cdot 1.6$ $F_t = 1240\ psi$

column stability factor $C_{max} := 63 \cdot lbf$ member L1064, load case 12 - pg. 262 of RISA output

$F_{cstar} := 1.6 \cdot 1500 \cdot psi$

$K_{cE} := .3$ $c := .8$ $l_e := 19.27 \cdot in$ $d := \frac{7}{16} \cdot in$ $E' := 1600 \cdot ksi$

$\dfrac{l_e}{d} = 44.05$ *OK* $F_{cE} := \dfrac{K_{cE} \cdot E'}{\left(\frac{l_e}{d}\right)^2}$ $F_{cE} = 247.42\ psi$

$$C_p := \frac{1 + \left(\frac{F_{cE}}{F_{cstar}}\right)}{2 \cdot c} - \sqrt{\left(\frac{1 + \frac{F_{cE}}{F_{cstar}}}{2 \cdot c}\right)^2 - \left(\frac{\frac{F_{cE}}{F_{cstar}}}{c}\right)} \qquad C_p = 0.1$$

$C_{allowable} := C_p \cdot \frac{7}{16} \cdot in \cdot 1.5 \cdot in \cdot F_{cstar}$ $C_{allowable} = 159\ lbf$ OK

CHECK UPLIFT:

exterior verticals

wind uplift worst case node N139 and N157: load case 10 - pg. 56 & 57 of full RISA output

$P_{uplift} := 194 \cdot lb$

$netuplift := P_{uplift} \cdot 1.5$ $netuplift = 291\ lb$

resisted by (4) screws to wood deck in withdrawal and (1) #8 screw in shear

withdrawal load on screws neglecting DL of Yurt:

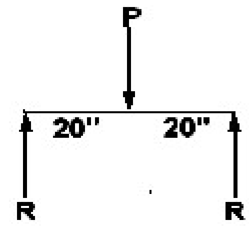
$$\frac{netuplift - 121 \cdot lb}{4} = 43\ lb$$

$T_{all} := 1.6 \cdot 1.5 \cdot in \cdot 117 \cdot \dfrac{lb}{in}$ $T_{all} = 281\ lb$

<u>(4) 1 1/2" #8 screws adequate</u>

DOOR HEADER:

40" door header



$\theta := 29.4 \cdot deg$ $\quad$ $P := 338 \cdot lbf \cdot \sin(\theta) + 514 \cdot lbf \cdot \cos(\theta)$

Max. rafter axial load and shear, R1, Load Case 1
- pg. 82 of RISA output

$P = 614\ lbf$ $\quad$ $span := 40 \cdot in$

$R := \frac{P}{2}$ $\quad$ $R = 307\ lbf$

$M := P \cdot \frac{span}{4}$ $\quad$ $M = 0.51\ ft \cdot kip$

$S_{req} := \frac{M}{1.15 \cdot 1.15 \cdot 1.2 \cdot 1500 \cdot psi}$ $\quad$ $S_{req} = 2.58\ in^3$

$R := \frac{P}{2} = 307\ lbf$

$A_{req} := \frac{1.5 \cdot R}{1.15 \cdot 180 \cdot psi}$ $\quad$ $A_{req} = 2.22\ in^2$

$A := 10.88 \cdot in^2 - 1.5 \cdot in \cdot 2.5 \cdot in = 7.13\ in^2$

<u>use flat 2x8 select structural S=2.72 A=7.1</u>

(Global) Model Settings

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	97
Include Shear Deformation?	Yes
Increase Nailing Capacity for Wind?	Yes
Include Warping?	Yes
Trans Load Btwn Intersecting Wood Wall?	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	1.50%
Include P-Delta for Walls?	Yes
Automatically Iterate Stiffness for Walls?	No
Max Iterations for Wall Stiffness	3
Gravity Acceleration (ft/sec^2)	32.2
Wall Mesh Size (in)	12
Eigensolution Convergence Tol. (1.E-)	3
Vertical Axis	Y
Global Member Orientation Plane	XZ
Static Solver	Standard Skyline
Dynamic Solver	Accelerated Solver

Hot Rolled Steel Code	AISC 15th(360-16): ASD
Adjust Stiffness?	Yes(Iterative)
RISAConnection Code	AISC 14th(360-10): ASD
Cold Formed Steel Code	AISI S100-16: ASD
Wood Code	AWC NDS-18: ASD
Wood Temperature	< 100F
Concrete Code	ACI 318-14
Masonry Code	TMS 402-16: ASD
Aluminum Code	AA ADM1-15: ASD - Building
Stainless Steel Code	AISC 14th(360-10): ASD
Adjust Stiffness?	Yes(Iterative)

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	PCA Load Contour
Parme Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections?	Yes
Use Cracked Sections Slab?	Yes
Bad Framing Warnings?	No
Unused Force Warnings?	Yes
Min 1 Bar Diam. Spacing?	No
Concrete Rebar Set	REBAR_SET_ASTMA615
Min % Steel for Column	1
Max % Steel for Column	8

(Global) Model Settings, Continued

Seismic Code	UBC 1997
Seismic Base Elevation (ft)	Not Entered
Add Base Weight?	No
Ct X	.035
Ct Z	.035
T X (sec)	Not Entered
T Z (sec)	Not Entered
R X	8.5
R Z	8.5
Ca	.36
Cv	.54
Nv	1
Occupancy Category	4
Seismic Zone	3
Om Z	1
Om X	1
Rho Z	1
Rho X	1

Wood Material Properties

	Label	Type	Database	Species	Grade	Cm	Emod	Nu	Ther...	Dens[...
1	RAFTER	Solid ...	Visually Graded	Douglas Fir-Larch	Select Struc...		1	.3	.3	.035
2	RING	Solid ...	Visually Graded	Douglas Fir-Larch	No.1		1	.3	.3	.035
3	STUD	Solid ...	Visually Graded	Douglas Fir-Larch	Select Struc...		1	.3	.3	.035
4	BLOCKI...	Solid ...	Visually Graded	Douglas Fir-Larch	No.1		1	.3	.3	.035

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1...	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	TUBE	29000	11154	.3	.65	.49	46	1.2	58	1.1
2	HR_WOOD	1700		0	.65	.035	1	1.2	58	1.1
3	A36	29000	11154	.3	.65	.49	36	1.5	58	1.2

General Material Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1E5 F)	Density[k/ft^3]
1	GEN_STL	29000	11154	.3	.65	.49
2	GEN_WOOD	1700		0	.65	.035

Wood Section Sets

	Label	Shape	Type	Design List	Material	Design Rul...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	RAFTER	2X6	Beam	Rectangula...	RAFTER	Typical	8.25	1.547	20.797	5.125
2	RING	4X5	Beam	Rectangula...	RING	Typical	15.75	16.078	26.578	33.76
3	POST	2X4	Beam	Rectangula...	STUD	Typical	5.25	.984	5.359	2.877
4	BLOCKING	2X4	Beam	Rectangula...	STUD	Typical	5.25	.984	5.359	2.877

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	5/16 CAB...	5/16 DIA...	Beam	None	A36	Typical	.077	.000468	.000468	.000936
2	1/8 CABLE	1/8 rod	Beam	None	A36	Typical	.012	1.2e-5	1.2e-5	2.4e-5
3	CENTER...	HSS4X4X3	Column	Tube	TUBE	Typical	2.58	6.21	6.21	10
4	POSTARM	HSS3X3X3	Column	Tube	TUBE	Typical	1.89	2.46	2.46	4.03
5	BRACKET	L4X4X4	Beam	Channel	A36	Typical	1.93	3	3	.044

General Section Sets

	Label	Shape	Type	Material	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	CABLE	ARB_CABLE_...	Beam	GEN_STL	.028	.01	.01	1
2	LATH	ARB_LATH_1	Beam	GEN_WOOD	.219	.03	.03	1

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	12.33	2.25	0	
2	N2	.335	12.33	2.224869	0	
3	N3	.663	12.33	2.150039	0	
4	N4	.976	12.33	2.02718	0	
5	N5	1.267	12.33	1.859037	0	
6	N6	1.53	12.33	1.649367	0	
7	N7	1.759	12.33	1.402852	0	
8	N8	1.949	12.33	1.125	0	
9	N9	2.094	12.33	0.822017	0	
10	N10	2.194	12.33	0.500672	0	
11	N11	2.244	12.33	0.168143	0	
12	N12	2.244	12.33	-0.168143	0	
13	N13	2.194	12.33	-0.500672	0	
14	N14	2.094	12.33	-0.822017	0	
15	N15	1.949	12.33	-1.125	0	
16	N16	1.759	12.33	-1.402852	0	
17	N17	1.53	12.33	-1.649367	0	
18	N18	1.267	12.33	-1.859037	0	
19	N19	.976	12.33	-2.02718	0	
20	N20	.663	12.33	-2.150039	0	
21	N21	.335	12.33	-2.224869	0	
22	N22	0	12.33	-2.25	0	
23	N23	-.335	12.33	-2.224869	0	
24	N24	-.663	12.33	-2.150039	0	
25	N25	-.976	12.33	-2.02718	0	
26	N26	-1.267	12.33	-1.859037	0	
27	N27	-1.53	12.33	-1.649367	0	
28	N28	-1.759	12.33	-1.402852	0	
29	N29	-1.949	12.33	-1.125	0	
30	N30	-2.094	12.33	-0.822017	0	
31	N31	-2.194	12.33	-0.500672	0	
32	N32	-2.244	12.33	-0.168143	0	
33	N33	-2.244	12.33	0.168143	0	
34	N34	-2.194	12.33	0.500672	0	
35	N35	-2.094	12.33	0.822017	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
36	N36	-1.949	12.33	1.125	0	
37	N37	-1.759	12.33	1.402852	0	
38	N38	-1.53	12.33	1.649367	0	
39	N39	-1.267	12.33	1.859037	0	
40	N40	-.976	12.33	2.02718	0	
41	N41	-.663	12.33	2.150039	0	
42	N42	-.335	12.33	2.224869	0	
43	N43	0	7	12	0	
44	N44	1.789	7	11.86597	0	
45	N45	3.537	7	11.466874	0	
46	N46	5.207	7	10.811626	0	
47	N47	6.76	7	9.914865	0	
48	N48	8.162	7	8.796622	0	
49	N49	9.382	7	7.481878	0	
50	N50	10.392	7	6	0	
51	N51	11.17	7	4.384092	0	
52	N52	11.699	7	2.670251	0	
53	N53	11.966	7	0.896761	0	
54	N54	11.966	7	-0.896761	0	
55	N55	11.699	7	-2.670251	0	
56	N56	11.17	7	-4.384092	0	
57	N57	10.392	7	-6	0	
58	N58	9.382	7	-7.481878	0	
59	N59	8.162	7	-8.796622	0	
60	N60	6.76	7	-9.914865	0	
61	N61	5.207	7	-10.811626	0	
62	N62	3.537	7	-11.466874	0	
63	N63	1.789	7	-11.86597	0	
64	N64	0	7	-12	0	
65	N65	-1.789	7	-11.86597	0	
66	N66	-3.537	7	-11.466874	0	
67	N67	-5.207	7	-10.811626	0	
68	N68	-6.76	7	-9.914865	0	
69	N69	-8.162	7	-8.796622	0	
70	N70	-9.382	7	-7.481878	0	
71	N71	-10.392	7	-6	0	
72	N72	-11.17	7	-4.384092	0	
73	N73	-11.699	7	-2.670251	0	
74	N74	-11.966	7	-0.896761	0	
75	N75	-11.966	7	0.896761	0	
76	N76	-11.699	7	2.670251	0	
77	N77	-11.17	7	4.384092	0	
78	N78	-10.392	7	6	0	
79	N79	-9.382	7	7.481878	0	
80	N80	-8.162	7	8.796622	0	
81	N81	-6.76	7	9.914865	0	
82	N82	-5.207	7	10.811626	0	
83	N83	-3.537	7	11.466874	0	
84	N84	-1.789	7	11.86597	0	
85	N85	0	6.125	12	0	
86	N86	1.789	6.125	11.86597	0	
87	N87	3.537	6.125	11.466874	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
88	N88	5.207	6.125	10.811626	0	
89	N89	6.76	6.125	9.914865	0	
90	N90	8.162	6.125	8.796622	0	
91	N91	9.382	6.125	7.481878	0	
92	N92	10.392	6.125	6	0	
93	N93	11.17	6.125	4.384092	0	
94	N94	11.699	6.125	2.670251	0	
95	N95	11.966	6.125	0.896761	0	
96	N96	11.966	6.125	-0.896761	0	
97	N97	11.699	6.125	-2.670251	0	
98	N98	11.17	6.125	-4.384092	0	
99	N99	10.392	6.125	-6	0	
100	N100	9.382	6.125	-7.481878	0	
101	N101	8.162	6.125	-8.796622	0	
102	N102	6.76	6.125	-9.914865	0	
103	N103	5.207	6.125	-10.811626	0	
104	N104	3.537	6.125	-11.466874	0	
105	N105	1.789	6.125	-11.86597	0	
106	N106	0	6.125	-12	0	
107	N107	-1.789	6.125	-11.86597	0	
108	N108	-3.537	6.125	-11.466874	0	
109	N109	-5.207	6.125	-10.811626	0	
110	N110	-6.76	6.125	-9.914865	0	
111	N111	-8.162	6.125	-8.796622	0	
112	N112	-9.382	6.125	-7.481878	0	
113	N113	-10.392	6.125	-6	0	
114	N114	-11.17	6.125	-4.384092	0	
115	N115	-11.699	6.125	-2.670251	0	
116	N116	-11.966	6.125	-0.896761	0	
117	N117	-11.966	6.125	0.896761	0	
118	N118	-11.699	6.125	2.670251	0	
119	N119	-11.17	6.125	4.384092	0	
120	N120	-10.392	6.125	6	0	
121	N121	-9.382	6.125	7.481878	0	
122	N122	-8.162	6.125	8.796622	0	
123	N123	-6.76	6.125	9.914865	0	
124	N124	-5.207	6.125	10.811626	0	
125	N125	-3.537	6.125	11.466874	0	
126	N126	-1.789	6.125	11.86597	0	
127	N127	0	0	12	0	
128	N128	1.789	0	11.86597	0	
129	N129	3.537	0	11.466874	0	
130	N130	5.207	0	10.811626	0	
131	N131	6.76	0	9.914865	0	
132	N132	8.162	0	8.796622	0	
133	N133	9.382	0	7.481878	0	
134	N134	10.392	0	6	0	
135	N135	11.17	0	4.384092	0	
136	N136	11.699	0	2.670251	0	
137	N137	11.966	0	0.896761	0	
138	N138	11.966	0	-0.896761	0	
139	N139	11.699	0	-2.670251	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
140	N140	11.17	0	-4.384092	0	
141	N141	10.392	0	-6	0	
142	N142	9.382	0	-7.481878	0	
143	N143	8.162	0	-8.796622	0	
144	N144	6.76	0	-9.914865	0	
145	N145	5.207	0	-10.811626	0	
146	N146	3.537	0	-11.466874	0	
147	N147	1.789	0	-11.86597	0	
148	N148	0	0	-12	0	
149	N149	-1.789	0	-11.86597	0	
150	N150	-3.537	0	-11.466874	0	
151	N151	-5.207	0	-10.811626	0	
152	N152	-6.76	0	-9.914865	0	
153	N153	-8.162	0	-8.796622	0	
154	N154	-9.382	0	-7.481878	0	
155	N155	-10.392	0	-6	0	
156	N156	-11.17	0	-4.384092	0	
157	N157	-11.699	0	-2.670251	0	
158	N158	-11.966	0	-0.896761	0	
159	N159	-11.966	0	0.896761	0	
160	N160	-11.699	0	2.670251	0	
161	N161	-11.17	0	4.384092	0	
162	N162	-10.392	0	6	0	
163	N163	-9.382	0	7.481878	0	
164	N164	-8.162	0	8.796622	0	
165	N165	-6.76	0	9.914865	0	
166	N166	-5.207	0	10.811626	0	
167	N167	-3.537	0	11.466874	0	
168	N168	-1.789	0	11.86597	0	
169	N169	0	0	0	0	
170	N254	0	4.375	12	0	
171	N255	1.789	4.375	11.86597	0	
172	N256	3.537	4.375	11.466874	0	
173	N257	5.207	4.375	10.811626	0	
174	N258	6.76	4.375	9.914865	0	
175	N259	8.162	4.375	8.796622	0	
176	N260	9.382	4.375	7.481878	0	
177	N261	10.392	4.375	6	0	
178	N262	11.17	4.375	4.384092	0	
179	N263	11.699	4.375	2.670251	0	
180	N264	11.966	4.375	0.896761	0	
181	N265	11.966	4.375	-0.896761	0	
182	N266	11.699	4.375	-2.670251	0	
183	N267	11.17	4.375	-4.384092	0	
184	N268	10.392	4.375	-6	0	
185	N269	9.382	4.375	-7.481878	0	
186	N270	8.162	4.375	-8.796622	0	
187	N271	6.76	4.375	-9.914865	0	
188	N272	5.207	4.375	-10.811626	0	
189	N273	3.537	4.375	-11.466874	0	
190	N274	1.789	4.375	-11.86597	0	
191	N275	0	4.375	-12	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
192	N276	-1.789	4.375	-11.86597	0	
193	N277	-3.537	4.375	-11.466874	0	
194	N278	-5.207	4.375	-10.811626	0	
195	N279	-6.76	4.375	-9.914865	0	
196	N280	-8.162	4.375	-8.796622	0	
197	N281	-9.382	4.375	-7.481878	0	
198	N282	-10.392	4.375	-6	0	
199	N283	-11.17	4.375	-4.384092	0	
200	N284	-11.699	4.375	-2.670251	0	
201	N285	-11.966	4.375	-0.896761	0	
202	N286	-11.966	4.375	0.896761	0	
203	N287	-11.699	4.375	2.670251	0	
204	N288	-11.17	4.375	4.384092	0	
205	N289	-10.392	4.375	6	0	
206	N290	-9.382	4.375	7.481878	0	
207	N291	-8.162	4.375	8.796622	0	
208	N292	-6.76	4.375	9.914865	0	
209	N293	-5.207	4.375	10.811626	0	
210	N294	-3.537	4.375	11.466874	0	
211	N295	-1.789	4.375	11.86597	0	
212	N338	0	.875	12	0	
213	N339	1.789	.875	11.86597	0	
214	N340	3.537	.875	11.466874	0	
215	N341	5.207	.875	10.811626	0	
216	N342	6.76	.875	9.914865	0	
217	N343	8.162	.875	8.796622	0	
218	N344	9.382	.875	7.481878	0	
219	N345	10.392	.875	6	0	
220	N346	11.17	.875	4.384092	0	
221	N347	11.699	.875	2.670251	0	
222	N348	11.966	.875	0.896761	0	
223	N349	11.966	.875	-0.896761	0	
224	N350	11.699	.875	-2.670251	0	
225	N351	11.17	.875	-4.384092	0	
226	N352	10.392	.875	-6	0	
227	N353	9.382	.875	-7.481878	0	
228	N354	8.162	.875	-8.796622	0	
229	N355	6.76	.875	-9.914865	0	
230	N356	5.207	.875	-10.811626	0	
231	N357	3.537	.875	-11.466874	0	
232	N358	1.789	.875	-11.86597	0	
233	N359	0	.875	-12	0	
234	N360	-1.789	.875	-11.86597	0	
235	N361	-3.537	.875	-11.466874	0	
236	N362	-5.207	.875	-10.811626	0	
237	N363	-6.76	.875	-9.914865	0	
238	N364	-8.162	.875	-8.796622	0	
239	N365	-9.382	.875	-7.481878	0	
240	N366	-10.392	.875	-6	0	
241	N367	-11.17	.875	-4.384092	0	
242	N368	-11.699	.875	-2.670251	0	
243	N369	-11.966	.875	-0.896761	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
244	N370	-11.966	.875	0.896761	0	
245	N371	-11.699	.875	2.670251	0	
246	N372	-11.17	.875	4.384092	0	
247	N373	-10.392	.875	6	0	
248	N374	-9.382	.875	7.481878	0	
249	N375	-8.162	.875	8.796622	0	
250	N376	-6.76	.875	9.914865	0	
251	N377	-5.207	.875	10.811626	0	
252	N378	-3.537	.875	11.466874	0	
253	N379	-1.789	.875	11.86597	0	
254	N380	0.448724	7	11.991607	0	
255	N381	1.343603	7	11.924543	0	
256	N382	2.230969	7	11.790792	0	
257	N383	3.105857	7	11.591102	0	
258	N384	3.963377	7	11.32659	0	
259	N385	4.798732	7	10.998735	0	
260	N386	5.60725	7	10.609371	0	
261	N387	6.38441	7	10.160674	0	
262	N388	7.125866	7	9.655156	0	
263	N389	7.827472	7	9.095641	0	
264	N390	8.485303	7	8.48526	0	
265	N391	9.09568	7	7.827426	0	
266	N392	9.655191	7	7.125818	0	
267	N393	10.160706	7	6.38436	0	
268	N394	10.609399	7	5.607197	0	
269	N395	10.998759	7	4.798677	0	
270	N396	11.32661	7	3.963321	0	
271	N397	11.591118	7	3.1058	0	
272	N398	11.790803	7	2.23091	0	
273	N399	11.92455	7	1.343544	0	
274	N400	11.99161	7	0.448664	0	
275	N401	11.991607	7	-0.448724	0	
276	N402	11.924543	7	-1.343603	0	
277	N403	11.790792	7	-2.230969	0	
278	N404	11.591102	7	-3.105857	0	
279	N405	11.32659	7	-3.963377	0	
280	N406	10.998735	7	-4.798732	0	
281	N407	10.609371	7	-5.60725	0	
282	N408	10.160674	7	-6.38441	0	
283	N409	9.655156	7	-7.125866	0	
284	N410	9.095641	7	-7.827472	0	
285	N411	8.48526	7	-8.485303	0	
286	N412	7.827426	7	-9.09568	0	
287	N413	7.125818	7	-9.655191	0	
288	N414	6.38436	7	-10.160706	0	
289	N415	5.607197	7	-10.609399	0	
290	N416	4.798677	7	-10.998759	0	
291	N417	3.963321	7	-11.32661	0	
292	N418	3.1058	7	-11.591118	0	
293	N419	2.23091	7	-11.790803	0	
294	N420	1.343544	7	-11.92455	0	
295	N421	0.448664	7	-11.99161	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
296	N422	-0.448724	7	-11.991607	0	
297	N423	-1.343603	7	-11.924543	0	
298	N424	-2.230969	7	-11.790792	0	
299	N425	-3.105857	7	-11.591102	0	
300	N426	-3.963377	7	-11.32659	0	
301	N427	-4.798732	7	-10.998735	0	
302	N428	-5.60725	7	-10.609371	0	
303	N429	-6.38441	7	-10.160674	0	
304	N430	-7.125866	7	-9.655156	0	
305	N431	-7.827472	7	-9.095641	0	
306	N432	-8.485302	7	-8.48526	0	
307	N433	-9.09568	7	-7.827426	0	
308	N434	-9.655191	7	-7.125818	0	
309	N435	-10.160706	7	-6.38436	0	
310	N436	-10.609399	7	-5.607197	0	
311	N437	-10.998759	7	-4.798677	0	
312	N438	-11.32661	7	-3.963321	0	
313	N439	-11.591118	7	-3.1058	0	
314	N440	-11.790803	7	-2.23091	0	
315	N441	-11.92455	7	-1.343544	0	
316	N442	-11.99161	7	-0.448664	0	
317	N443	-11.991607	7	0.448724	0	
318	N444	-11.924543	7	1.343603	0	
319	N445	-11.790792	7	2.230969	0	
320	N446	-11.591102	7	3.105857	0	
321	N447	-11.32659	7	3.963377	0	
322	N448	-10.998735	7	4.798732	0	
323	N449	-10.609371	7	5.60725	0	
324	N450	-10.160675	7	6.38441	0	
325	N451	-9.655156	7	7.125866	0	
326	N452	-9.095641	7	7.827472	0	
327	N453	-8.48526	7	8.485302	0	
328	N454	-7.827426	7	9.09568	0	
329	N455	-7.125818	7	9.655191	0	
330	N456	-6.38436	7	10.160706	0	
331	N457	-5.607197	7	10.609399	0	
332	N458	-4.798677	7	10.998759	0	
333	N459	-3.963321	7	11.32661	0	
334	N460	-3.1058	7	11.591118	0	
335	N461	-2.23091	7	11.790803	0	
336	N462	-1.343544	7	11.92455	0	
337	N463	-0.448665	7	11.99161	0	
338	N464	0.896758	6.125	11.966446	0	
339	N465	2.670248	6.125	11.699136	0	
340	N466	4.38409	6.125	11.170486	0	
341	N467	5.999997	6.125	10.392306	0	
342	N468	7.481875	6.125	9.38198	0	
343	N469	8.79662	6.125	8.162075	0	
344	N470	9.914864	6.125	6.759843	0	
345	N471	10.811625	6.125	5.206608	0	
346	N472	11.466873	6.125	3.537065	0	
347	N473	11.865969	6.125	1.78851	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
348	N474	12	6.125	0	0	
349	N475	11.86597	6.125	-1.788504	0	
350	N476	11.466875	6.125	-3.537059	0	
351	N477	10.811628	6.125	-5.206602	0	
352	N478	9.914867	6.125	-6.759838	0	
353	N479	8.796625	6.125	-8.162071	0	
354	N480	7.48188	6.125	-9.381976	0	
355	N481	6.000003	6.125	-10.392303	0	
356	N482	4.384095	6.125	-11.170484	0	
357	N483	2.670254	6.125	-11.699134	0	
358	N484	0.896764	6.125	-11.966445	0	
359	N485	-0.896758	6.125	-11.966446	0	
360	N486	-2.670248	6.125	-11.699136	0	
361	N487	-4.384089	6.125	-11.170486	0	
362	N488	-5.999997	6.125	-10.392306	0	
363	N489	-7.481875	6.125	-9.38198	0	
364	N490	-8.79662	6.125	-8.162075	0	
365	N491	-9.914864	6.125	-6.759843	0	
366	N492	-10.811625	6.125	-5.206608	0	
367	N493	-11.466873	6.125	-3.537065	0	
368	N494	-11.865969	6.125	-1.78851	0	
369	N495	-12	6.125	0	0	
370	N496	-11.86597	6.125	1.788504	0	
371	N497	-11.466875	6.125	3.537059	0	
372	N498	-10.811628	6.125	5.206602	0	
373	N499	-9.914867	6.125	6.759838	0	
374	N500	-8.796625	6.125	8.162071	0	
375	N501	-7.48188	6.125	9.381976	0	
376	N502	-6.000003	6.125	10.392303	0	
377	N503	-4.384095	6.125	11.170484	0	
378	N504	-2.670254	6.125	11.699134	0	
379	N505	-0.896764	6.125	11.966445	0	
380	N506	0.896821	4.375	11.966441	0	
381	N507	2.67031	4.375	11.699122	0	
382	N508	4.384148	4.375	11.170463	0	
383	N509	6.000052	4.375	10.392275	0	
384	N510	7.481924	4.375	9.38194	0	
385	N511	8.796663	4.375	8.162029	0	
386	N512	9.914899	4.375	6.759791	0	
387	N513	10.811652	4.375	5.206551	0	
388	N514	11.466891	4.375	3.537005	0	
389	N515	11.865979	4.375	1.788448	0	
390	N516	12	4.375	-6e-5	0	
391	N517	11.865961	4.375	-1.788566	0	
392	N518	11.466856	4.375	-3.537119	0	
393	N519	10.8116	4.375	-5.206659	0	
394	N520	9.914832	4.375	-6.75989	0	
395	N521	8.796582	4.375	-8.162117	0	
396	N522	7.481831	4.375	-9.382015	0	
397	N523	5.999948	4.375	-10.392335	0	
398	N524	4.384037	4.375	-11.170507	0	
399	N525	2.670193	4.375	-11.699148	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
400	N526	0.896701	4.375	-11.96645	0	
401	N527	-0.896821	4.375	-11.966441	0	
402	N528	-2.67031	4.375	-11.699122	0	
403	N529	-4.384148	4.375	-11.170463	0	
404	N530	-6.000052	4.375	-10.392275	0	
405	N531	-7.481924	4.375	-9.381941	0	
406	N532	-8.796663	4.375	-8.162029	0	
407	N533	-9.914899	4.375	-6.759791	0	
408	N534	-10.811652	4.375	-5.206551	0	
409	N535	-11.466891	4.375	-3.537005	0	
410	N536	-11.865979	4.375	-1.788448	0	
411	N537	-12	4.375	6e-5	0	
412	N538	-11.865961	4.375	1.788566	0	
413	N539	-11.466856	4.375	3.537119	0	
414	N540	-10.8116	4.375	5.206659	0	
415	N541	-9.914832	4.375	6.75989	0	
416	N542	-8.796582	4.375	8.162117	0	
417	N543	-7.481831	4.375	9.382015	0	
418	N544	-5.999948	4.375	10.392335	0	
419	N545	-4.384037	4.375	11.170507	0	
420	N546	-2.670193	4.375	11.699148	0	
421	N547	-0.896702	4.375	11.96645	0	
422	N548	0.448703	3.5	11.991608	0	
423	N549	1.343583	3.5	11.924546	0	
424	N550	2.230948	3.5	11.790796	0	
425	N551	3.105837	3.5	11.591108	0	
426	N552	3.963357	3.5	11.326597	0	
427	N553	4.798713	3.5	10.998743	0	
428	N554	5.607231	3.5	10.609381	0	
429	N555	6.384393	3.5	10.160686	0	
430	N556	7.125849	3.5	9.655168	0	
431	N557	7.827456	3.5	9.095655	0	
432	N558	8.485288	3.5	8.485275	0	
433	N559	9.095667	3.5	7.827442	0	
434	N560	9.655179	3.5	7.125835	0	
435	N561	10.160695	3.5	6.384377	0	
436	N562	10.609389	3.5	5.607216	0	
437	N563	10.998751	3.5	4.798696	0	
438	N564	11.326603	3.5	3.96334	0	
439	N565	11.591112	3.5	3.10582	0	
440	N566	11.790799	3.5	2.23093	0	
441	N567	11.924548	3.5	1.343565	0	
442	N568	11.991609	3.5	0.448685	0	
443	N569	11.991608	3.5	-0.448703	0	
444	N570	11.924546	3.5	-1.343583	0	
445	N571	11.790796	3.5	-2.230948	0	
446	N572	11.591108	3.5	-3.105837	0	
447	N573	11.326597	3.5	-3.963357	0	
448	N574	10.998743	3.5	-4.798712	0	
449	N575	10.609381	3.5	-5.607231	0	
450	N576	10.160686	3.5	-6.384392	0	
451	N577	9.655168	3.5	-7.125849	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
452	N578	9.095655	3.5	-7.827456	0	
453	N579	8.485275	3.5	-8.485288	0	
454	N580	7.827442	3.5	-9.095667	0	
455	N581	7.125835	3.5	-9.655179	0	
456	N582	6.384377	3.5	-10.160695	0	
457	N583	5.607216	3.5	-10.609389	0	
458	N584	4.798696	3.5	-10.998751	0	
459	N585	3.96334	3.5	-11.326603	0	
460	N586	3.10582	3.5	-11.591112	0	
461	N587	2.230931	3.5	-11.790799	0	
462	N588	1.343565	3.5	-11.924548	0	
463	N589	0.448685	3.5	-11.991609	0	
464	N590	-0.448703	3.5	-11.991608	0	
465	N591	-1.343583	3.5	-11.924546	0	
466	N592	-2.230948	3.5	-11.790796	0	
467	N593	-3.105837	3.5	-11.591108	0	
468	N594	-3.963357	3.5	-11.326597	0	
469	N595	-4.798712	3.5	-10.998744	0	
470	N596	-5.607231	3.5	-10.609381	0	
471	N597	-6.384392	3.5	-10.160686	0	
472	N598	-7.125849	3.5	-9.655168	0	
473	N599	-7.827456	3.5	-9.095655	0	
474	N600	-8.485288	3.5	-8.485275	0	
475	N601	-9.095666	3.5	-7.827442	0	
476	N602	-9.655179	3.5	-7.125835	0	
477	N603	-10.160695	3.5	-6.384377	0	
478	N604	-10.609389	3.5	-5.607216	0	
479	N605	-10.998751	3.5	-4.798696	0	
480	N606	-11.326603	3.5	-3.96334	0	
481	N607	-11.591112	3.5	-3.10582	0	
482	N608	-11.790799	3.5	-2.230931	0	
483	N609	-11.924548	3.5	-1.343565	0	
484	N610	-11.991609	3.5	-0.448685	0	
485	N611	-11.991608	3.5	0.448703	0	
486	N612	-11.924546	3.5	1.343583	0	
487	N613	-11.790796	3.5	2.230948	0	
488	N614	-11.591108	3.5	3.105837	0	
489	N615	-11.326597	3.5	3.963357	0	
490	N616	-10.998744	3.5	4.798712	0	
491	N617	-10.609381	3.5	5.607231	0	
492	N618	-10.160686	3.5	6.384392	0	
493	N619	-9.655168	3.5	7.125849	0	
494	N620	-9.095655	3.5	7.827456	0	
495	N621	-8.485275	3.5	8.485288	0	
496	N622	-7.827442	3.5	9.095666	0	
497	N623	-7.125835	3.5	9.655179	0	
498	N624	-6.384377	3.5	10.160695	0	
499	N625	-5.607216	3.5	10.609389	0	
500	N626	-4.798696	3.5	10.998751	0	
501	N627	-3.96334	3.5	11.326603	0	
502	N628	-3.10582	3.5	11.591112	0	
503	N629	-2.230931	3.5	11.790799	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
504	N630	-1.343565	3.5	11.924548	0	
505	N631	-0.448685	3.5	11.991609	0	
506	N632	0.448724	1.75	11.991607	0	
507	N633	1.343603	1.75	11.924543	0	
508	N634	2.230969	1.75	11.790792	0	
509	N635	3.105857	1.75	11.591102	0	
510	N636	3.963377	1.75	11.32659	0	
511	N637	4.798732	1.75	10.998735	0	
512	N638	5.60725	1.75	10.609371	0	
513	N639	6.38441	1.75	10.160674	0	
514	N640	7.125866	1.75	9.655156	0	
515	N641	7.827472	1.75	9.095641	0	
516	N642	8.485303	1.75	8.48526	0	
517	N643	9.09568	1.75	7.827426	0	
518	N644	9.655191	1.75	7.125818	0	
519	N645	10.160706	1.75	6.38436	0	
520	N646	10.609399	1.75	5.607197	0	
521	N647	10.998759	1.75	4.798677	0	
522	N648	11.32661	1.75	3.963321	0	
523	N649	11.591118	1.75	3.1058	0	
524	N650	11.790803	1.75	2.23091	0	
525	N651	11.92455	1.75	1.343544	0	
526	N652	11.99161	1.75	0.448664	0	
527	N653	11.991607	1.75	-0.448724	0	
528	N654	11.924543	1.75	-1.343603	0	
529	N655	11.790792	1.75	-2.230969	0	
530	N656	11.591102	1.75	-3.105857	0	
531	N657	11.32659	1.75	-3.963377	0	
532	N658	10.998735	1.75	-4.798732	0	
533	N659	10.609371	1.75	-5.60725	0	
534	N660	10.160674	1.75	-6.38441	0	
535	N661	9.655156	1.75	-7.125866	0	
536	N662	9.095641	1.75	-7.827472	0	
537	N663	8.48526	1.75	-8.485303	0	
538	N664	7.827426	1.75	-9.09568	0	
539	N665	7.125818	1.75	-9.655191	0	
540	N666	6.38436	1.75	-10.160706	0	
541	N667	5.607197	1.75	-10.609399	0	
542	N668	4.798677	1.75	-10.998759	0	
543	N669	3.963321	1.75	-11.32661	0	
544	N670	3.1058	1.75	-11.591118	0	
545	N671	2.23091	1.75	-11.790803	0	
546	N672	1.343544	1.75	-11.92455	0	
547	N673	0.448664	1.75	-11.99161	0	
548	N674	-0.448724	1.75	-11.991607	0	
549	N675	-1.343603	1.75	-11.924543	0	
550	N676	-2.230969	1.75	-11.790792	0	
551	N677	-3.105857	1.75	-11.591102	0	
552	N678	-3.963377	1.75	-11.32659	0	
553	N679	-4.798732	1.75	-10.998735	0	
554	N680	-5.60725	1.75	-10.609371	0	
555	N681	-6.38441	1.75	-10.160674	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
556	N682	-7.125866	1.75	-9.655156	0	
557	N683	-7.827472	1.75	-9.095641	0	
558	N684	-8.485302	1.75	-8.48526	0	
559	N685	-9.09568	1.75	-7.827426	0	
560	N686	-9.655191	1.75	-7.125818	0	
561	N687	-10.160706	1.75	-6.38436	0	
562	N688	-10.609399	1.75	-5.607197	0	
563	N689	-10.998759	1.75	-4.798677	0	
564	N690	-11.32661	1.75	-3.963321	0	
565	N691	-11.591118	1.75	-3.1058	0	
566	N692	-11.790803	1.75	-2.23091	0	
567	N693	-11.92455	1.75	-1.343544	0	
568	N694	-11.99161	1.75	-0.448664	0	
569	N695	-11.991607	1.75	0.448724	0	
570	N696	-11.924543	1.75	1.343603	0	
571	N697	-11.790792	1.75	2.230969	0	
572	N698	-11.591102	1.75	3.105857	0	
573	N699	-11.32659	1.75	3.963377	0	
574	N700	-10.998735	1.75	4.798732	0	
575	N701	-10.609371	1.75	5.60725	0	
576	N702	-10.160675	1.75	6.38441	0	
577	N703	-9.655156	1.75	7.125866	0	
578	N704	-9.095641	1.75	7.827472	0	
579	N705	-8.48526	1.75	8.485302	0	
580	N706	-7.827426	1.75	9.09568	0	
581	N707	-7.125818	1.75	9.655191	0	
582	N708	-6.38436	1.75	10.160706	0	
583	N709	-5.607197	1.75	10.609399	0	
584	N710	-4.798677	1.75	10.998759	0	
585	N711	-3.963321	1.75	11.32661	0	
586	N712	-3.1058	1.75	11.591118	0	
587	N713	-2.23091	1.75	11.790803	0	
588	N714	-1.343544	1.75	11.92455	0	
589	N715	-0.448665	1.75	11.99161	0	
590	N716	0.896758	.875	11.966446	0	
591	N717	2.670248	.875	11.699136	0	
592	N718	4.38409	.875	11.170486	0	
593	N719	5.999997	.875	10.392306	0	
594	N720	7.481875	.875	9.38198	0	
595	N721	8.79662	.875	8.162075	0	
596	N722	9.914864	.875	6.759843	0	
597	N723	10.811625	.875	5.206608	0	
598	N724	11.466873	.875	3.537065	0	
599	N725	11.865969	.875	1.78851	0	
600	N726	12	.875	0	0	
601	N727	11.86597	.875	-1.788504	0	
602	N728	11.466875	.875	-3.537059	0	
603	N729	10.811628	.875	-5.206602	0	
604	N730	9.914867	.875	-6.759838	0	
605	N731	8.796625	.875	-8.162071	0	
606	N732	7.48188	.875	-9.381976	0	
607	N733	6.000003	.875	-10.392303	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
608	N734	4.384095	.875	-11.170484	0	
609	N735	2.670254	.875	-11.699134	0	
610	N736	0.896764	.875	-11.966445	0	
611	N737	-0.896758	.875	-11.966446	0	
612	N738	-2.670248	.875	-11.699136	0	
613	N739	-4.384089	.875	-11.170486	0	
614	N740	-5.999997	.875	-10.392306	0	
615	N741	-7.481875	.875	-9.38198	0	
616	N742	-8.79662	.875	-8.162075	0	
617	N743	-9.914864	.875	-6.759843	0	
618	N744	-10.811625	.875	-5.206608	0	
619	N745	-11.466873	.875	-3.537065	0	
620	N746	-11.865969	.875	-1.78851	0	
621	N747	-12	.875	0	0	
622	N748	-11.86597	.875	1.788504	0	
623	N749	-11.466875	.875	3.537059	0	
624	N750	-10.811628	.875	5.206602	0	
625	N751	-9.914867	.875	6.759838	0	
626	N752	-8.796625	.875	8.162071	0	
627	N753	-7.48188	.875	9.381976	0	
628	N754	-6.000003	.875	10.392303	0	
629	N755	-4.384095	.875	11.170484	0	
630	N756	-2.670254	.875	11.699134	0	
631	N757	-0.896764	.875	11.966445	0	
632	N758	0.448703	0	11.991608	0	
633	N759	1.343583	0	11.924546	0	
634	N760	2.230948	0	11.790796	0	
635	N761	3.105837	0	11.591108	0	
636	N762	3.963357	0	11.326597	0	
637	N763	4.798713	0	10.998743	0	
638	N764	5.607231	0	10.609381	0	
639	N765	6.384393	0	10.160686	0	
640	N766	7.125849	0	9.655168	0	
641	N767	7.827456	0	9.095655	0	
642	N768	8.485288	0	8.485275	0	
643	N769	9.095667	0	7.827442	0	
644	N770	9.655179	0	7.125835	0	
645	N771	10.160695	0	6.384377	0	
646	N772	10.609389	0	5.607216	0	
647	N773	10.998751	0	4.798696	0	
648	N774	11.326603	0	3.96334	0	
649	N775	11.591112	0	3.10582	0	
650	N776	11.790799	0	2.23093	0	
651	N777	11.924548	0	1.343565	0	
652	N778	11.991609	0	0.448685	0	
653	N779	11.991608	0	-0.448703	0	
654	N780	11.924546	0	-1.343583	0	
655	N781	11.790796	0	-2.230948	0	
656	N782	11.591108	0	-3.105837	0	
657	N783	11.326597	0	-3.963357	0	
658	N784	10.998743	0	-4.798712	0	
659	N785	10.609381	0	-5.607231	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
660	N786	10.160686	0	-6.384392	0	
661	N787	9.655168	0	-7.125849	0	
662	N788	9.095655	0	-7.827456	0	
663	N789	8.485275	0	-8.485288	0	
664	N790	7.827442	0	-9.095667	0	
665	N791	7.125835	0	-9.655179	0	
666	N792	6.384377	0	-10.160695	0	
667	N793	5.607216	0	-10.609389	0	
668	N794	4.798696	0	-10.998751	0	
669	N795	3.96334	0	-11.326603	0	
670	N796	3.10582	0	-11.591112	0	
671	N797	2.230931	0	-11.790799	0	
672	N798	1.343565	0	-11.924548	0	
673	N799	0.448685	0	-11.991609	0	
674	N800	-0.448703	0	-11.991608	0	
675	N801	-1.343583	0	-11.924546	0	
676	N802	-2.230948	0	-11.790796	0	
677	N803	-3.105837	0	-11.591108	0	
678	N804	-3.963357	0	-11.326597	0	
679	N805	-4.798712	0	-10.998744	0	
680	N806	-5.607231	0	-10.609381	0	
681	N807	-6.384392	0	-10.160686	0	
682	N808	-7.125849	0	-9.655168	0	
683	N809	-7.827456	0	-9.095655	0	
684	N810	-8.485288	0	-8.485275	0	
685	N811	-9.095666	0	-7.827442	0	
686	N812	-9.655179	0	-7.125835	0	
687	N813	-10.160695	0	-6.384377	0	
688	N814	-10.609389	0	-5.607216	0	
689	N815	-10.998751	0	-4.798696	0	
690	N816	-11.326603	0	-3.96334	0	
691	N817	-11.591112	0	-3.10582	0	
692	N818	-11.790799	0	-2.230931	0	
693	N819	-11.924548	0	-1.343565	0	
694	N820	-11.991609	0	-0.448685	0	
695	N821	-11.991608	0	0.448703	0	
696	N822	-11.924546	0	1.343583	0	
697	N823	-11.790796	0	2.230948	0	
698	N824	-11.591108	0	3.105837	0	
699	N825	-11.326597	0	3.963357	0	
700	N826	-10.998744	0	4.798712	0	
701	N827	-10.609381	0	5.607231	0	
702	N828	-10.160686	0	6.384392	0	
703	N829	-9.655168	0	7.125849	0	
704	N830	-9.095655	0	7.827456	0	
705	N831	-8.485275	0	8.485288	0	
706	N832	-7.827442	0	9.095666	0	
707	N833	-7.125835	0	9.655179	0	
708	N834	-6.384377	0	10.160695	0	
709	N835	-5.607216	0	10.609389	0	
710	N836	-4.798696	0	10.998751	0	
711	N837	-3.96334	0	11.326603	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
712	N838	-3.10582	0	11.591112	0	
713	N839	-2.230931	0	11.790799	0	
714	N840	-1.343565	0	11.924548	0	
715	N841	-0.448685	0	11.991609	0	
716	N716A	0.760266	10.771083	5.044696	0	
717	N717A	2.213467	10.771101	4.596423	0	
718	N718A	3.469712	10.771094	3.73978	0	
719	N719A	4.418558	10.770988	2.550926	0	
720	N720A	4.974165	10.771002	1.135263	0	
721	N721A	5.087682	10.770977	-0.381264	0	
722	N722A	4.748577	10.771065	-1.863864	0	
723	N723A	3.988576	10.771081	-3.180846	0	
724	N724A	2.873562	10.771111	-4.215161	0	
725	N725A	1.503593	10.771072	-4.875043	0	
726	N726A	0	10.771067	-5.101706	0	
727	N727A	-1.503593	10.771072	-4.875043	0	
728	N728A	-2.873562	10.771111	-4.215161	0	
729	N729A	-3.988576	10.771081	-3.180846	0	
730	N730A	-4.748577	10.771065	-1.863864	0	
731	N731A	-5.087682	10.770977	-0.381264	0	
732	N732A	-4.974165	10.771002	1.135263	0	
733	N733A	-4.418558	10.770988	2.550926	0	
734	N734A	-3.469712	10.771094	3.73978	0	
735	N735A	-2.213467	10.771101	4.596423	0	
736	N736A	-0.760266	10.771083	5.044696	0	
737	N737A	1.250957	8.972332	8.298343	0	
738	N738A	3.641315	8.972371	7.560934	0	
739	N739A	5.707842	8.972355	6.151795	0	
740	N740A	7.268047	8.972127	4.196225	0	
741	N741A	8.182048	8.972157	1.867483	0	
742	N742A	8.368853	8.972104	-0.627172	0	
743	N743A	7.81155	8.972294	-3.065995	0	
744	N744A	6.561163	8.972328	-5.232378	0	
745	N745A	4.727288	8.972393	-6.933766	0	
746	N746A	2.473507	8.972309	-8.019279	0	
747	N747A	0	8.972299	-8.392137	0	
748	N748A	-2.473507	8.972309	-8.019279	0	
749	N749A	-4.727288	8.972393	-6.933766	0	
750	N750A	-6.561163	8.972328	-5.232378	0	
751	N751A	-7.81155	8.972294	-3.065995	0	
752	N752A	-8.368853	8.972104	-0.627172	0	
753	N753A	-8.182048	8.972157	1.867483	0	
754	N754A	-7.268047	8.972127	4.196225	0	
755	N755A	-5.707842	8.972355	6.151795	0	
756	N756A	-3.641315	8.972371	7.560934	0	
757	N757A	-1.250957	8.972332	8.298343	0	
758	N758A	0	10.291396	5.979154	0	
759	N759A	1.762236	10.291402	5.713506	0	
760	N760A	3.367889	10.291453	4.940123	0	
761	N761A	4.674599	10.291414	3.727921	0	
762	N762A	5.565369	10.291393	2.184432	0	
763	N763A	5.962661	10.291277	0.446839	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
764	N764A	5.829601	10.29131	-1.330522	0	
765	N765A	5.178422	10.291291	-2.989673	0	
766	N766A	4.066547	10.29143	-4.382984	0	
767	N767A	2.594227	10.29144	-5.386959	0	
768	N768A	0.891117	10.291416	-5.912335	0	
769	N769A	-0.891117	10.291416	-5.912335	0	
770	N770A	-2.594227	10.29144	-5.386959	0	
771	N771A	-4.066547	10.29143	-4.382984	0	
772	N772A	-5.178422	10.291291	-2.989673	0	
773	N773A	-5.829601	10.29131	-1.330522	0	
774	N774A	-5.962661	10.291277	0.446839	0	
775	N775A	-5.565369	10.291393	2.184432	0	
776	N776A	-4.674599	10.291414	3.727921	0	
777	N777A	-3.367889	10.291453	4.940123	0	
778	N778A	-1.762236	10.291402	5.713506	0	
779	N779A	0	9.45197	7.514688	0	
780	N780A	2.214863	9.451979	7.180816	0	
781	N781A	4.232961	9.452051	6.208805	0	
782	N782A	5.87514	9.451996	4.685303	0	
783	N783A	6.994757	9.451966	2.745426	0	
784	N784A	7.493874	9.451803	0.561596	0	
785	N785A	7.326613	9.451849	-1.672225	0	
786	N786A	6.508183	9.451823	-3.757479	0	
787	N787A	5.111008	9.452019	-5.508591	0	
788	N788A	3.260555	9.452033	-6.770397	0	
789	N789A	1.120106	9.451999	-7.430704	0	
790	N790A	-1.120106	9.451999	-7.430704	0	
791	N791A	-3.260555	9.452033	-6.770397	0	
792	N792A	-5.111008	9.452019	-5.508591	0	
793	N793A	-6.508183	9.451823	-3.757479	0	
794	N794A	-7.326613	9.451849	-1.672225	0	
795	N795A	-7.493874	9.451803	0.561596	0	
796	N796A	-6.994757	9.451966	2.745426	0	
797	N797A	-5.87514	9.451996	4.685303	0	
798	N798A	-4.232961	9.452051	6.208805	0	
799	N799A	-2.214863	9.451979	7.180816	0	
800	N800A	0	9.25	0	0	
801	N801A	2.244	12.33	0	0	
802	N802A	-2.244	12.33	0	0	
803	N803A	-.499	12.33	2.187454	0	
804	N804A	.499	12.33	2.187454	0	
805	N805A	.499	12.33	-2.187454	0	
806	N806A	-.499	12.33	-2.187454	0	

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
1	N127	Reaction	Reaction	Reaction			
2	N128	Reaction	Reaction	Reaction			
3	N129	Reaction	Reaction	Reaction			
4	N130	Reaction	Reaction	Reaction			

Joint Boundary Conditions (Continued)

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot.[k-ft/rad]	Y Rot.[k-ft/rad]	Z Rot.[k-ft/rad]
5	N131	Reaction	Reaction	Reaction			
6	N132	Reaction	Reaction	Reaction			
7	N133	Reaction	Reaction	Reaction			
8	N134	Reaction	Reaction	Reaction			
9	N135	Reaction	Reaction	Reaction			
10	N136	Reaction	Reaction	Reaction			
11	N137	Reaction	Reaction	Reaction			
12	N138	Reaction	Reaction	Reaction			
13	N139	Reaction	Reaction	Reaction			
14	N140	Reaction	Reaction	Reaction			
15	N141	Reaction	Reaction	Reaction			
16	N142	Reaction	Reaction	Reaction			
17	N143	Reaction	Reaction	Reaction			
18	N144	Reaction	Reaction	Reaction			
19	N145	Reaction	Reaction	Reaction			
20	N146	Reaction	Reaction	Reaction			
21	N147	Reaction	Reaction	Reaction			
22	N148	Reaction	Reaction	Reaction			
23	N149	Reaction	Reaction	Reaction			
24	N150	Reaction	Reaction	Reaction			
25	N151	Reaction	Reaction	Reaction			
26	N152	Reaction	Reaction	Reaction			
27	N153	Reaction	Reaction	Reaction			
28	N154	Reaction	Reaction	Reaction			
29	N155	Reaction	Reaction	Reaction			
30	N156	Reaction	Reaction	Reaction			
31	N157	Reaction	Reaction	Reaction			
32	N158	Reaction	Reaction	Reaction			
33	N159	Reaction	Reaction	Reaction			
34	N160	Reaction	Reaction	Reaction			
35	N161	Reaction	Reaction	Reaction			
36	N162	Reaction	Reaction	Reaction			
37	N163	Reaction	Reaction	Reaction			
38	N164	Reaction	Reaction	Reaction			
39	N165	Reaction	Reaction	Reaction			
40	N166	Reaction	Reaction	Reaction			
41	N167	Reaction	Reaction	Reaction			
42	N168	Reaction	Reaction	Reaction			
43	N169	Reaction	Reaction	Reaction			

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	RNG1	N1	N2		90	RING	Beam	Rectangular D...	RING	Typical
2	RNG2	N2	N804A		90	RING	Beam	Rectangular D...	RING	Typical
3	RNG3	N3	N4		90	RING	Beam	Rectangular D...	RING	Typical
4	RNG4	N4	N5		90	RING	Beam	Rectangular D...	RING	Typical
5	RNG5	N5	N6		90	RING	Beam	Rectangular D...	RING	Typical
6	RNG6	N6	N7		90	RING	Beam	Rectangular D...	RING	Typical
7	RNG7	N7	N8		90	RING	Beam	Rectangular D...	RING	Typical
8	RNG8	N8	N9		90	RING	Beam	Rectangular D...	RING	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
9	RNG9	N9	N10		90	RING	Beam	Rectangular D...	RING	Typical
10	RNG10	N10	N11		90	RING	Beam	Rectangular D...	RING	Typical
11	RNG11	N11	N801A		90	RING	Beam	Rectangular D...	RING	Typical
12	RNG12	N12	N13		90	RING	Beam	Rectangular D...	RING	Typical
13	RNG13	N13	N14		90	RING	Beam	Rectangular D...	RING	Typical
14	RNG14	N14	N15		90	RING	Beam	Rectangular D...	RING	Typical
15	RNG15	N15	N16		90	RING	Beam	Rectangular D...	RING	Typical
16	RNG16	N16	N17		90	RING	Beam	Rectangular D...	RING	Typical
17	RNG17	N17	N18		90	RING	Beam	Rectangular D...	RING	Typical
18	RNG18	N18	N19		90	RING	Beam	Rectangular D...	RING	Typical
19	RNG19	N19	N20		90	RING	Beam	Rectangular D...	RING	Typical
20	RNG20	N20	N805A		90	RING	Beam	Rectangular D...	RING	Typical
21	RNG21	N21	N22		90	RING	Beam	Rectangular D...	RING	Typical
22	RNG22	N22	N23		90	RING	Beam	Rectangular D...	RING	Typical
23	RNG23	N23	N806A		90	RING	Beam	Rectangular D...	RING	Typical
24	RNG24	N24	N25		90	RING	Beam	Rectangular D...	RING	Typical
25	RNG25	N25	N26		90	RING	Beam	Rectangular D...	RING	Typical
26	RNG26	N26	N27		90	RING	Beam	Rectangular D...	RING	Typical
27	RNG27	N27	N28		90	RING	Beam	Rectangular D...	RING	Typical
28	RNG28	N28	N29		90	RING	Beam	Rectangular D...	RING	Typical
29	RNG29	N29	N30		90	RING	Beam	Rectangular D...	RING	Typical
30	RNG30	N30	N31		90	RING	Beam	Rectangular D...	RING	Typical
31	RNG31	N31	N32		90	RING	Beam	Rectangular D...	RING	Typical
32	RNG32	N32	N802A		90	RING	Beam	Rectangular D...	RING	Typical
33	RNG33	N33	N34		90	RING	Beam	Rectangular D...	RING	Typical
34	RNG34	N34	N35		90	RING	Beam	Rectangular D...	RING	Typical
35	RNG35	N35	N36		90	RING	Beam	Rectangular D...	RING	Typical
36	RNG36	N36	N37		90	RING	Beam	Rectangular D...	RING	Typical
37	RNG37	N37	N38		90	RING	Beam	Rectangular D...	RING	Typical
38	RNG38	N38	N39		90	RING	Beam	Rectangular D...	RING	Typical
39	RNG39	N39	N40		90	RING	Beam	Rectangular D...	RING	Typical
40	RNG40	N40	N41		90	RING	Beam	Rectangular D...	RING	Typical
41	RNG41	N41	N803A		90	RING	Beam	Rectangular D...	RING	Typical
42	RNG42	N42	N1		90	RING	Beam	Rectangular D...	RING	Typical
43	C1	N43	N44			5/16 CABLE	Beam	None	A36	Typical
44	C2	N44	N45			5/16 CABLE	Beam	None	A36	Typical
45	C3	N45	N46			5/16 CABLE	Beam	None	A36	Typical
46	C4	N46	N47			5/16 CABLE	Beam	None	A36	Typical
47	C5	N47	N48			5/16 CABLE	Beam	None	A36	Typical
48	C6	N48	N49			5/16 CABLE	Beam	None	A36	Typical
49	C7	N49	N50			5/16 CABLE	Beam	None	A36	Typical
50	C8	N50	N51			5/16 CABLE	Beam	None	A36	Typical
51	C9	N51	N52			5/16 CABLE	Beam	None	A36	Typical
52	C10	N52	N53			5/16 CABLE	Beam	None	A36	Typical
53	C11	N53	N54			5/16 CABLE	Beam	None	A36	Typical
54	C12	N54	N55			5/16 CABLE	Beam	None	A36	Typical
55	C13	N55	N56			5/16 CABLE	Beam	None	A36	Typical
56	C14	N56	N57			5/16 CABLE	Beam	None	A36	Typical
57	C15	N57	N58			5/16 CABLE	Beam	None	A36	Typical
58	C16	N58	N59			5/16 CABLE	Beam	None	A36	Typical
59	C17	N59	N60			5/16 CABLE	Beam	None	A36	Typical
60	C18	N60	N61			5/16 CABLE	Beam	None	A36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
61	C19	N61	N62			5/16 CABLE	Beam	None	A36	Typical
62	C20	N62	N63			5/16 CABLE	Beam	None	A36	Typical
63	C21	N63	N64			5/16 CABLE	Beam	None	A36	Typical
64	C22	N64	N65			5/16 CABLE	Beam	None	A36	Typical
65	C23	N65	N66			5/16 CABLE	Beam	None	A36	Typical
66	C24	N66	N67			5/16 CABLE	Beam	None	A36	Typical
67	C25	N67	N68			5/16 CABLE	Beam	None	A36	Typical
68	C26	N68	N69			5/16 CABLE	Beam	None	A36	Typical
69	C27	N69	N70			5/16 CABLE	Beam	None	A36	Typical
70	C28	N70	N71			5/16 CABLE	Beam	None	A36	Typical
71	C29	N71	N72			5/16 CABLE	Beam	None	A36	Typical
72	C30	N72	N73			5/16 CABLE	Beam	None	A36	Typical
73	C31	N73	N74			5/16 CABLE	Beam	None	A36	Typical
74	C32	N74	N75			5/16 CABLE	Beam	None	A36	Typical
75	C33	N75	N76			5/16 CABLE	Beam	None	A36	Typical
76	C34	N76	N77			5/16 CABLE	Beam	None	A36	Typical
77	C35	N77	N78			5/16 CABLE	Beam	None	A36	Typical
78	C36	N78	N79			5/16 CABLE	Beam	None	A36	Typical
79	C37	N79	N80			5/16 CABLE	Beam	None	A36	Typical
80	C38	N80	N81			5/16 CABLE	Beam	None	A36	Typical
81	C39	N81	N82			5/16 CABLE	Beam	None	A36	Typical
82	C40	N82	N83			5/16 CABLE	Beam	None	A36	Typical
83	C41	N83	N84			5/16 CABLE	Beam	None	A36	Typical
84	C42	N84	N43			5/16 CABLE	Beam	None	A36	Typical
85	ST1	N43	N127	N169		POST	Beam	Rectangular D...	STUD	Typical
86	ST2	N44	N128	N169		POST	Beam	Rectangular D...	STUD	Typical
87	ST3	N45	N129	N169		POST	Beam	Rectangular D...	STUD	Typical
88	ST4	N46	N130	N169		POST	Beam	Rectangular D...	STUD	Typical
89	ST5	N47	N131	N169		POST	Beam	Rectangular D...	STUD	Typical
90	ST6	N48	N132	N169		POST	Beam	Rectangular D...	STUD	Typical
91	ST7	N49	N133	N169		POST	Beam	Rectangular D...	STUD	Typical
92	ST8	N50	N134	N169		POST	Beam	Rectangular D...	STUD	Typical
93	ST9	N51	N135	N169		POST	Beam	Rectangular D...	STUD	Typical
94	ST10	N52	N136	N169		POST	Beam	Rectangular D...	STUD	Typical
95	ST11	N53	N137	N169		POST	Beam	Rectangular D...	STUD	Typical
96	ST12	N54	N138	N169		POST	Beam	Rectangular D...	STUD	Typical
97	ST13	N55	N139	N169		POST	Beam	Rectangular D...	STUD	Typical
98	ST14	N56	N140	N169		POST	Beam	Rectangular D...	STUD	Typical
99	ST15	N57	N141	N169		POST	Beam	Rectangular D...	STUD	Typical
100	ST16	N58	N142	N169		POST	Beam	Rectangular D...	STUD	Typical
101	ST17	N59	N143	N169		POST	Beam	Rectangular D...	STUD	Typical
102	ST18	N60	N144	N169		POST	Beam	Rectangular D...	STUD	Typical
103	ST19	N61	N145	N169		POST	Beam	Rectangular D...	STUD	Typical
104	ST20	N62	N146	N169		POST	Beam	Rectangular D...	STUD	Typical
105	ST21	N63	N147	N169		POST	Beam	Rectangular D...	STUD	Typical
106	ST22	N64	N148	N169		POST	Beam	Rectangular D...	STUD	Typical
107	ST23	N65	N149	N169		POST	Beam	Rectangular D...	STUD	Typical
108	ST24	N66	N150	N169		POST	Beam	Rectangular D...	STUD	Typical
109	ST25	N67	N151	N169		POST	Beam	Rectangular D...	STUD	Typical
110	ST26	N68	N152	N169		POST	Beam	Rectangular D...	STUD	Typical
111	ST27	N69	N153	N169		POST	Beam	Rectangular D...	STUD	Typical
112	ST28	N70	N154	N169		POST	Beam	Rectangular D...	STUD	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
113	ST29	N71	N155	N169		POST	Beam	Rectangular D...	STUD	Typical
114	ST30	N72	N156	N169		POST	Beam	Rectangular D...	STUD	Typical
115	ST31	N73	N157	N169		POST	Beam	Rectangular D...	STUD	Typical
116	ST32	N74	N158	N169		POST	Beam	Rectangular D...	STUD	Typical
117	ST33	N75	N159	N169		POST	Beam	Rectangular D...	STUD	Typical
118	ST34	N76	N160	N169		POST	Beam	Rectangular D...	STUD	Typical
119	ST35	N77	N161	N169		POST	Beam	Rectangular D...	STUD	Typical
120	ST36	N78	N162	N169		POST	Beam	Rectangular D...	STUD	Typical
121	ST37	N79	N163	N169		POST	Beam	Rectangular D...	STUD	Typical
122	ST38	N80	N164	N169		POST	Beam	Rectangular D...	STUD	Typical
123	ST39	N81	N165	N169		POST	Beam	Rectangular D...	STUD	Typical
124	ST40	N82	N166	N169		POST	Beam	Rectangular D...	STUD	Typical
125	ST41	N83	N167	N169		POST	Beam	Rectangular D...	STUD	Typical
126	ST42	N84	N168	N169		POST	Beam	Rectangular D...	STUD	Typical
127	R1	N1	N43			RAFTER	Beam	Rectangular D...	RAFTER	Typical
128	R2	N2	N44			RAFTER	Beam	Rectangular D...	RAFTER	Typical
129	R3	N3	N45			RAFTER	Beam	Rectangular D...	RAFTER	Typical
130	R4	N4	N46			RAFTER	Beam	Rectangular D...	RAFTER	Typical
131	R5	N5	N47			RAFTER	Beam	Rectangular D...	RAFTER	Typical
132	R6	N6	N48			RAFTER	Beam	Rectangular D...	RAFTER	Typical
133	R7	N7	N49			RAFTER	Beam	Rectangular D...	RAFTER	Typical
134	R8	N8	N50			RAFTER	Beam	Rectangular D...	RAFTER	Typical
135	R9	N9	N51			RAFTER	Beam	Rectangular D...	RAFTER	Typical
136	R10	N10	N52			RAFTER	Beam	Rectangular D...	RAFTER	Typical
137	R11	N11	N53			RAFTER	Beam	Rectangular D...	RAFTER	Typical
138	R12	N12	N54			RAFTER	Beam	Rectangular D...	RAFTER	Typical
139	R13	N13	N55			RAFTER	Beam	Rectangular D...	RAFTER	Typical
140	R14	N14	N56			RAFTER	Beam	Rectangular D...	RAFTER	Typical
141	R15	N15	N57			RAFTER	Beam	Rectangular D...	RAFTER	Typical
142	R16	N16	N58			RAFTER	Beam	Rectangular D...	RAFTER	Typical
143	R17	N17	N59			RAFTER	Beam	Rectangular D...	RAFTER	Typical
144	R18	N18	N60			RAFTER	Beam	Rectangular D...	RAFTER	Typical
145	R19	N19	N61			RAFTER	Beam	Rectangular D...	RAFTER	Typical
146	R20	N20	N62			RAFTER	Beam	Rectangular D...	RAFTER	Typical
147	R21	N21	N63			RAFTER	Beam	Rectangular D...	RAFTER	Typical
148	R22	N22	N64			RAFTER	Beam	Rectangular D...	RAFTER	Typical
149	R23	N23	N65			RAFTER	Beam	Rectangular D...	RAFTER	Typical
150	R24	N24	N66			RAFTER	Beam	Rectangular D...	RAFTER	Typical
151	R25	N25	N67			RAFTER	Beam	Rectangular D...	RAFTER	Typical
152	R26	N26	N68			RAFTER	Beam	Rectangular D...	RAFTER	Typical
153	R27	N27	N69			RAFTER	Beam	Rectangular D...	RAFTER	Typical
154	R28	N28	N70			RAFTER	Beam	Rectangular D...	RAFTER	Typical
155	R29	N29	N71			RAFTER	Beam	Rectangular D...	RAFTER	Typical
156	R30	N30	N72			RAFTER	Beam	Rectangular D...	RAFTER	Typical
157	R31	N31	N73			RAFTER	Beam	Rectangular D...	RAFTER	Typical
158	R32	N32	N74			RAFTER	Beam	Rectangular D...	RAFTER	Typical
159	R33	N33	N75			RAFTER	Beam	Rectangular D...	RAFTER	Typical
160	R34	N34	N76			RAFTER	Beam	Rectangular D...	RAFTER	Typical
161	R35	N35	N77			RAFTER	Beam	Rectangular D...	RAFTER	Typical
162	R36	N36	N78			RAFTER	Beam	Rectangular D...	RAFTER	Typical
163	R37	N37	N79			RAFTER	Beam	Rectangular D...	RAFTER	Typical
164	R38	N38	N80			RAFTER	Beam	Rectangular D...	RAFTER	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
165	R39	N39	N81			RAFTER	Beam	Rectangular D...	RAFTER	Typical
166	R40	N40	N82			RAFTER	Beam	Rectangular D...	RAFTER	Typical
167	R41	N41	N83			RAFTER	Beam	Rectangular D...	RAFTER	Typical
168	R42	N42	N84			RAFTER	Beam	Rectangular D...	RAFTER	Typical
169	BLK1219	N43	N44	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
170	BLK1220	N44	N45	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
171	BLK1221	N45	N46	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
172	BLK1222	N46	N47	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
173	BLK1223	N47	N48	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
174	BLK1224	N48	N49	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
175	BLK1225	N49	N50	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
176	BLK1226	N50	N51	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
177	BLK1227	N51	N52	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
178	BLK1228	N52	N53	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
179	BLK1229	N53	N54	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
180	BLK1230	N54	N55	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
181	BLK1231	N55	N56	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
182	BLK1232	N56	N57	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
183	BLK1233	N57	N58	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
184	BLK1234	N58	N59	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
185	BLK1235	N59	N60	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
186	BLK1236	N60	N61	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
187	BLK1237	N61	N62	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
188	BLK1238	N62	N63	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
189	BLK1239	N63	N64	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
190	BLK1240	N64	N65	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
191	BLK1241	N65	N66	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
192	BLK1242	N66	N67	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
193	BLK1243	N67	N68	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
194	BLK1244	N68	N69	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
195	BLK1245	N69	N70	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
196	BLK1246	N70	N71	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
197	BLK1247	N71	N72	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
198	BLK1248	N72	N73	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
199	BLK1249	N73	N74	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
200	BLK1250	N74	N75	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
201	BLK1251	N75	N76	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
202	BLK1252	N76	N77	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
203	BLK1253	N77	N78	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
204	BLK1254	N78	N79	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
205	BLK1255	N79	N80	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
206	BLK1256	N80	N81	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
207	BLK1257	N81	N82	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
208	BLK1258	N82	N83	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
209	BLK1259	N83	N84	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
210	BLK1260	N84	N43	N169		BLOCKING	Beam	Rectangular D...	STUD	Typical
211	L211	N758	N716	N169		LATH	Beam	None	GEN_WO...	Typical
212	L212	N716	N633	N169		LATH	Beam	None	GEN_WO...	Typical
213	L213	N633	N550	N169		LATH	Beam	None	GEN_WO...	Typical
214	L214	N550	N507	N169		LATH	Beam	None	GEN_WO...	Typical
215	L215	N507	N87	N169		LATH	Beam	None	GEN_WO...	Typical
216	L216	N87	N384	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
217	L217	N759	N339	N169		LATH	Beam	None	GEN_WO...	Typical
218	L218	N339	N634	N169		LATH	Beam	None	GEN_WO...	Typical
219	L219	N634	N551	N169		LATH	Beam	None	GEN_WO...	Typical
220	L220	N551	N256	N169		LATH	Beam	None	GEN_WO...	Typical
221	L221	N256	N466	N169		LATH	Beam	None	GEN_WO...	Typical
222	L222	N466	N385	N169		LATH	Beam	None	GEN_WO...	Typical
223	L223	N760	N717	N169		LATH	Beam	None	GEN_WO...	Typical
224	L224	N717	N635	N169		LATH	Beam	None	GEN_WO...	Typical
225	L225	N635	N552	N169		LATH	Beam	None	GEN_WO...	Typical
226	L226	N552	N508	N169		LATH	Beam	None	GEN_WO...	Typical
227	L227	N508	N88	N169		LATH	Beam	None	GEN_WO...	Typical
228	L228	N88	N386	N169		LATH	Beam	None	GEN_WO...	Typical
229	L229	N761	N340	N169		LATH	Beam	None	GEN_WO...	Typical
230	L230	N340	N636	N169		LATH	Beam	None	GEN_WO...	Typical
231	L231	N636	N553	N169		LATH	Beam	None	GEN_WO...	Typical
232	L232	N553	N257	N169		LATH	Beam	None	GEN_WO...	Typical
233	L233	N257	N467	N169		LATH	Beam	None	GEN_WO...	Typical
234	L234	N467	N387	N169		LATH	Beam	None	GEN_WO...	Typical
235	L235	N762	N718	N169		LATH	Beam	None	GEN_WO...	Typical
236	L236	N718	N637	N169		LATH	Beam	None	GEN_WO...	Typical
237	L237	N637	N554	N169		LATH	Beam	None	GEN_WO...	Typical
238	L238	N554	N509	N169		LATH	Beam	None	GEN_WO...	Typical
239	L239	N509	N89	N169		LATH	Beam	None	GEN_WO...	Typical
240	L240	N89	N388	N169		LATH	Beam	None	GEN_WO...	Typical
241	L241	N763	N341	N169		LATH	Beam	None	GEN_WO...	Typical
242	L242	N341	N638	N169		LATH	Beam	None	GEN_WO...	Typical
243	L243	N638	N555	N169		LATH	Beam	None	GEN_WO...	Typical
244	L244	N555	N258	N169		LATH	Beam	None	GEN_WO...	Typical
245	L245	N258	N468	N169		LATH	Beam	None	GEN_WO...	Typical
246	L246	N468	N389	N169		LATH	Beam	None	GEN_WO...	Typical
247	L247	N764	N719	N169		LATH	Beam	None	GEN_WO...	Typical
248	L248	N719	N639	N169		LATH	Beam	None	GEN_WO...	Typical
249	L249	N639	N556	N169		LATH	Beam	None	GEN_WO...	Typical
250	L250	N556	N510	N169		LATH	Beam	None	GEN_WO...	Typical
251	L251	N510	N90	N169		LATH	Beam	None	GEN_WO...	Typical
252	L252	N90	N390	N169		LATH	Beam	None	GEN_WO...	Typical
253	L253	N765	N342	N169		LATH	Beam	None	GEN_WO...	Typical
254	L254	N342	N640	N169		LATH	Beam	None	GEN_WO...	Typical
255	L255	N640	N557	N169		LATH	Beam	None	GEN_WO...	Typical
256	L256	N557	N259	N169		LATH	Beam	None	GEN_WO...	Typical
257	L257	N259	N469	N169		LATH	Beam	None	GEN_WO...	Typical
258	L258	N469	N391	N169		LATH	Beam	None	GEN_WO...	Typical
259	L259	N766	N720	N169		LATH	Beam	None	GEN_WO...	Typical
260	L260	N720	N641	N169		LATH	Beam	None	GEN_WO...	Typical
261	L261	N641	N558	N169		LATH	Beam	None	GEN_WO...	Typical
262	L262	N558	N511	N169		LATH	Beam	None	GEN_WO...	Typical
263	L263	N511	N91	N169		LATH	Beam	None	GEN_WO...	Typical
264	L264	N91	N392	N169		LATH	Beam	None	GEN_WO...	Typical
265	L265	N767	N343	N169		LATH	Beam	None	GEN_WO...	Typical
266	L266	N343	N642	N169		LATH	Beam	None	GEN_WO...	Typical
267	L267	N642	N559	N169		LATH	Beam	None	GEN_WO...	Typical
268	L268	N559	N260	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
269	L269	N260	N470	N169		LATH	Beam	None	GEN_WO...	Typical
270	L270	N470	N393	N169		LATH	Beam	None	GEN_WO...	Typical
271	L271	N768	N721	N169		LATH	Beam	None	GEN_WO...	Typical
272	L272	N721	N643	N169		LATH	Beam	None	GEN_WO...	Typical
273	L273	N643	N560	N169		LATH	Beam	None	GEN_WO...	Typical
274	L274	N560	N512	N169		LATH	Beam	None	GEN_WO...	Typical
275	L275	N512	N92	N169		LATH	Beam	None	GEN_WO...	Typical
276	L276	N92	N394	N169		LATH	Beam	None	GEN_WO...	Typical
277	L277	N769	N344	N169		LATH	Beam	None	GEN_WO...	Typical
278	L278	N344	N644	N169		LATH	Beam	None	GEN_WO...	Typical
279	L279	N644	N561	N169		LATH	Beam	None	GEN_WO...	Typical
280	L280	N561	N261	N169		LATH	Beam	None	GEN_WO...	Typical
281	L281	N261	N471	N169		LATH	Beam	None	GEN_WO...	Typical
282	L282	N471	N395	N169		LATH	Beam	None	GEN_WO...	Typical
283	L283	N770	N722	N169		LATH	Beam	None	GEN_WO...	Typical
284	L284	N722	N645	N169		LATH	Beam	None	GEN_WO...	Typical
285	L285	N645	N562	N169		LATH	Beam	None	GEN_WO...	Typical
286	L286	N562	N513	N169		LATH	Beam	None	GEN_WO...	Typical
287	L287	N513	N93	N169		LATH	Beam	None	GEN_WO...	Typical
288	L288	N93	N396	N169		LATH	Beam	None	GEN_WO...	Typical
289	L289	N771	N345	N169		LATH	Beam	None	GEN_WO...	Typical
290	L290	N345	N646	N169		LATH	Beam	None	GEN_WO...	Typical
291	L291	N646	N563	N169		LATH	Beam	None	GEN_WO...	Typical
292	L292	N563	N262	N169		LATH	Beam	None	GEN_WO...	Typical
293	L293	N262	N472	N169		LATH	Beam	None	GEN_WO...	Typical
294	L294	N472	N397	N169		LATH	Beam	None	GEN_WO...	Typical
295	L295	N772	N723	N169		LATH	Beam	None	GEN_WO...	Typical
296	L296	N723	N647	N169		LATH	Beam	None	GEN_WO...	Typical
297	L297	N647	N564	N169		LATH	Beam	None	GEN_WO...	Typical
298	L298	N564	N514	N169		LATH	Beam	None	GEN_WO...	Typical
299	L299	N514	N94	N169		LATH	Beam	None	GEN_WO...	Typical
300	L300	N94	N398	N169		LATH	Beam	None	GEN_WO...	Typical
301	L301	N773	N346	N169		LATH	Beam	None	GEN_WO...	Typical
302	L302	N346	N648	N169		LATH	Beam	None	GEN_WO...	Typical
303	L303	N648	N565	N169		LATH	Beam	None	GEN_WO...	Typical
304	L304	N565	N263	N169		LATH	Beam	None	GEN_WO...	Typical
305	L305	N263	N473	N169		LATH	Beam	None	GEN_WO...	Typical
306	L306	N473	N399	N169		LATH	Beam	None	GEN_WO...	Typical
307	L307	N774	N724	N169		LATH	Beam	None	GEN_WO...	Typical
308	L308	N724	N649	N169		LATH	Beam	None	GEN_WO...	Typical
309	L309	N649	N566	N169		LATH	Beam	None	GEN_WO...	Typical
310	L310	N566	N515	N169		LATH	Beam	None	GEN_WO...	Typical
311	L311	N515	N95	N169		LATH	Beam	None	GEN_WO...	Typical
312	L312	N95	N400	N169		LATH	Beam	None	GEN_WO...	Typical
313	L313	N775	N347	N169		LATH	Beam	None	GEN_WO...	Typical
314	L314	N347	N650	N169		LATH	Beam	None	GEN_WO...	Typical
315	L315	N650	N567	N169		LATH	Beam	None	GEN_WO...	Typical
316	L316	N567	N264	N169		LATH	Beam	None	GEN_WO...	Typical
317	L317	N264	N474	N169		LATH	Beam	None	GEN_WO...	Typical
318	L318	N474	N401	N169		LATH	Beam	None	GEN_WO...	Typical
319	L319	N776	N725	N169		LATH	Beam	None	GEN_WO...	Typical
320	L320	N725	N651	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
321	L321	N651	N568	N169		LATH	Beam	None	GEN_WO...	Typical
322	L322	N568	N516	N169		LATH	Beam	None	GEN_WO...	Typical
323	L323	N516	N96	N169		LATH	Beam	None	GEN_WO...	Typical
324	L324	N96	N402	N169		LATH	Beam	None	GEN_WO...	Typical
325	L325	N777	N348	N169		LATH	Beam	None	GEN_WO...	Typical
326	L326	N348	N652	N169		LATH	Beam	None	GEN_WO...	Typical
327	L327	N652	N569	N169		LATH	Beam	None	GEN_WO...	Typical
328	L328	N569	N265	N169		LATH	Beam	None	GEN_WO...	Typical
329	L329	N265	N475	N169		LATH	Beam	None	GEN_WO...	Typical
330	L330	N475	N403	N169		LATH	Beam	None	GEN_WO...	Typical
331	L331	N778	N726	N169		LATH	Beam	None	GEN_WO...	Typical
332	L332	N726	N653	N169		LATH	Beam	None	GEN_WO...	Typical
333	L333	N653	N570	N169		LATH	Beam	None	GEN_WO...	Typical
334	L334	N570	N517	N169		LATH	Beam	None	GEN_WO...	Typical
335	L335	N517	N97	N169		LATH	Beam	None	GEN_WO...	Typical
336	L336	N97	N404	N169		LATH	Beam	None	GEN_WO...	Typical
337	L337	N779	N349	N169		LATH	Beam	None	GEN_WO...	Typical
338	L338	N349	N654	N169		LATH	Beam	None	GEN_WO...	Typical
339	L339	N654	N571	N169		LATH	Beam	None	GEN_WO...	Typical
340	L340	N571	N266	N169		LATH	Beam	None	GEN_WO...	Typical
341	L341	N266	N476	N169		LATH	Beam	None	GEN_WO...	Typical
342	L342	N476	N405	N169		LATH	Beam	None	GEN_WO...	Typical
343	L343	N780	N727	N169		LATH	Beam	None	GEN_WO...	Typical
344	L344	N727	N655	N169		LATH	Beam	None	GEN_WO...	Typical
345	L345	N655	N572	N169		LATH	Beam	None	GEN_WO...	Typical
346	L346	N572	N518	N169		LATH	Beam	None	GEN_WO...	Typical
347	L347	N518	N98	N169		LATH	Beam	None	GEN_WO...	Typical
348	L348	N98	N406	N169		LATH	Beam	None	GEN_WO...	Typical
349	L349	N781	N350	N169		LATH	Beam	None	GEN_WO...	Typical
350	L350	N350	N656	N169		LATH	Beam	None	GEN_WO...	Typical
351	L351	N656	N573	N169		LATH	Beam	None	GEN_WO...	Typical
352	L352	N573	N267	N169		LATH	Beam	None	GEN_WO...	Typical
353	L353	N267	N477	N169		LATH	Beam	None	GEN_WO...	Typical
354	L354	N477	N407	N169		LATH	Beam	None	GEN_WO...	Typical
355	L355	N782	N728	N169		LATH	Beam	None	GEN_WO...	Typical
356	L356	N728	N657	N169		LATH	Beam	None	GEN_WO...	Typical
357	L357	N657	N574	N169		LATH	Beam	None	GEN_WO...	Typical
358	L358	N574	N519	N169		LATH	Beam	None	GEN_WO...	Typical
359	L359	N519	N99	N169		LATH	Beam	None	GEN_WO...	Typical
360	L360	N99	N408	N169		LATH	Beam	None	GEN_WO...	Typical
361	L361	N783	N351	N169		LATH	Beam	None	GEN_WO...	Typical
362	L362	N351	N658	N169		LATH	Beam	None	GEN_WO...	Typical
363	L363	N658	N575	N169		LATH	Beam	None	GEN_WO...	Typical
364	L364	N575	N268	N169		LATH	Beam	None	GEN_WO...	Typical
365	L365	N268	N478	N169		LATH	Beam	None	GEN_WO...	Typical
366	L366	N478	N409	N169		LATH	Beam	None	GEN_WO...	Typical
367	L367	N784	N729	N169		LATH	Beam	None	GEN_WO...	Typical
368	L368	N729	N659	N169		LATH	Beam	None	GEN_WO...	Typical
369	L369	N659	N576	N169		LATH	Beam	None	GEN_WO...	Typical
370	L370	N576	N520	N169		LATH	Beam	None	GEN_WO...	Typical
371	L371	N520	N100	N169		LATH	Beam	None	GEN_WO...	Typical
372	L372	N100	N410	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
373	L373	N785	N352	N169		LATH	Beam	None	GEN_WO...	Typical
374	L374	N352	N660	N169		LATH	Beam	None	GEN_WO...	Typical
375	L375	N660	N577	N169		LATH	Beam	None	GEN_WO...	Typical
376	L376	N577	N269	N169		LATH	Beam	None	GEN_WO...	Typical
377	L377	N269	N479	N169		LATH	Beam	None	GEN_WO...	Typical
378	L378	N479	N411	N169		LATH	Beam	None	GEN_WO...	Typical
379	L379	N786	N730	N169		LATH	Beam	None	GEN_WO...	Typical
380	L380	N730	N661	N169		LATH	Beam	None	GEN_WO...	Typical
381	L381	N661	N578	N169		LATH	Beam	None	GEN_WO...	Typical
382	L382	N578	N521	N169		LATH	Beam	None	GEN_WO...	Typical
383	L383	N521	N101	N169		LATH	Beam	None	GEN_WO...	Typical
384	L384	N101	N412	N169		LATH	Beam	None	GEN_WO...	Typical
385	L385	N787	N353	N169		LATH	Beam	None	GEN_WO...	Typical
386	L386	N353	N662	N169		LATH	Beam	None	GEN_WO...	Typical
387	L387	N662	N579	N169		LATH	Beam	None	GEN_WO...	Typical
388	L388	N579	N270	N169		LATH	Beam	None	GEN_WO...	Typical
389	L389	N270	N480	N169		LATH	Beam	None	GEN_WO...	Typical
390	L390	N480	N413	N169		LATH	Beam	None	GEN_WO...	Typical
391	L391	N788	N731	N169		LATH	Beam	None	GEN_WO...	Typical
392	L392	N731	N663	N169		LATH	Beam	None	GEN_WO...	Typical
393	L393	N663	N580	N169		LATH	Beam	None	GEN_WO...	Typical
394	L394	N580	N522	N169		LATH	Beam	None	GEN_WO...	Typical
395	L395	N522	N102	N169		LATH	Beam	None	GEN_WO...	Typical
396	L396	N102	N414	N169		LATH	Beam	None	GEN_WO...	Typical
397	L397	N789	N354	N169		LATH	Beam	None	GEN_WO...	Typical
398	L398	N354	N664	N169		LATH	Beam	None	GEN_WO...	Typical
399	L399	N664	N581	N169		LATH	Beam	None	GEN_WO...	Typical
400	L400	N581	N271	N169		LATH	Beam	None	GEN_WO...	Typical
401	L401	N271	N481	N169		LATH	Beam	None	GEN_WO...	Typical
402	L402	N481	N415	N169		LATH	Beam	None	GEN_WO...	Typical
403	L403	N790	N732	N169		LATH	Beam	None	GEN_WO...	Typical
404	L404	N732	N665	N169		LATH	Beam	None	GEN_WO...	Typical
405	L405	N665	N582	N169		LATH	Beam	None	GEN_WO...	Typical
406	L406	N582	N523	N169		LATH	Beam	None	GEN_WO...	Typical
407	L407	N523	N103	N169		LATH	Beam	None	GEN_WO...	Typical
408	L408	N103	N416	N169		LATH	Beam	None	GEN_WO...	Typical
409	L409	N791	N355	N169		LATH	Beam	None	GEN_WO...	Typical
410	L410	N355	N666	N169		LATH	Beam	None	GEN_WO...	Typical
411	L411	N666	N583	N169		LATH	Beam	None	GEN_WO...	Typical
412	L412	N583	N272	N169		LATH	Beam	None	GEN_WO...	Typical
413	L413	N272	N482	N169		LATH	Beam	None	GEN_WO...	Typical
414	L414	N482	N417	N169		LATH	Beam	None	GEN_WO...	Typical
415	L415	N792	N733	N169		LATH	Beam	None	GEN_WO...	Typical
416	L416	N733	N667	N169		LATH	Beam	None	GEN_WO...	Typical
417	L417	N667	N584	N169		LATH	Beam	None	GEN_WO...	Typical
418	L418	N584	N524	N169		LATH	Beam	None	GEN_WO...	Typical
419	L419	N524	N104	N169		LATH	Beam	None	GEN_WO...	Typical
420	L420	N104	N418	N169		LATH	Beam	None	GEN_WO...	Typical
421	L421	N793	N356	N169		LATH	Beam	None	GEN_WO...	Typical
422	L422	N356	N668	N169		LATH	Beam	None	GEN_WO...	Typical
423	L423	N668	N585	N169		LATH	Beam	None	GEN_WO...	Typical
424	L424	N585	N273	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
425	L425	N273	N483	N169		LATH	Beam	None	GEN_WO...	Typical
426	L426	N483	N419	N169		LATH	Beam	None	GEN_WO...	Typical
427	L427	N794	N734	N169		LATH	Beam	None	GEN_WO...	Typical
428	L428	N734	N669	N169		LATH	Beam	None	GEN_WO...	Typical
429	L429	N669	N586	N169		LATH	Beam	None	GEN_WO...	Typical
430	L430	N586	N525	N169		LATH	Beam	None	GEN_WO...	Typical
431	L431	N525	N105	N169		LATH	Beam	None	GEN_WO...	Typical
432	L432	N105	N420	N169		LATH	Beam	None	GEN_WO...	Typical
433	L433	N795	N357	N169		LATH	Beam	None	GEN_WO...	Typical
434	L434	N357	N670	N169		LATH	Beam	None	GEN_WO...	Typical
435	L435	N670	N587	N169		LATH	Beam	None	GEN_WO...	Typical
436	L436	N587	N274	N169		LATH	Beam	None	GEN_WO...	Typical
437	L437	N274	N484	N169		LATH	Beam	None	GEN_WO...	Typical
438	L438	N484	N421	N169		LATH	Beam	None	GEN_WO...	Typical
439	L439	N796	N735	N169		LATH	Beam	None	GEN_WO...	Typical
440	L440	N735	N671	N169		LATH	Beam	None	GEN_WO...	Typical
441	L441	N671	N588	N169		LATH	Beam	None	GEN_WO...	Typical
442	L442	N588	N526	N169		LATH	Beam	None	GEN_WO...	Typical
443	L443	N526	N106	N169		LATH	Beam	None	GEN_WO...	Typical
444	L444	N106	N422	N169		LATH	Beam	None	GEN_WO...	Typical
445	L445	N797	N358	N169		LATH	Beam	None	GEN_WO...	Typical
446	L446	N358	N672	N169		LATH	Beam	None	GEN_WO...	Typical
447	L447	N672	N589	N169		LATH	Beam	None	GEN_WO...	Typical
448	L448	N589	N275	N169		LATH	Beam	None	GEN_WO...	Typical
449	L449	N275	N485	N169		LATH	Beam	None	GEN_WO...	Typical
450	L450	N485	N423	N169		LATH	Beam	None	GEN_WO...	Typical
451	L451	N798	N736	N169		LATH	Beam	None	GEN_WO...	Typical
452	L452	N736	N673	N169		LATH	Beam	None	GEN_WO...	Typical
453	L453	N673	N590	N169		LATH	Beam	None	GEN_WO...	Typical
454	L454	N590	N527	N169		LATH	Beam	None	GEN_WO...	Typical
455	L455	N527	N107	N169		LATH	Beam	None	GEN_WO...	Typical
456	L456	N107	N424	N169		LATH	Beam	None	GEN_WO...	Typical
457	L457	N799	N359	N169		LATH	Beam	None	GEN_WO...	Typical
458	L458	N359	N674	N169		LATH	Beam	None	GEN_WO...	Typical
459	L459	N674	N591	N169		LATH	Beam	None	GEN_WO...	Typical
460	L460	N591	N276	N169		LATH	Beam	None	GEN_WO...	Typical
461	L461	N276	N486	N169		LATH	Beam	None	GEN_WO...	Typical
462	L462	N486	N425	N169		LATH	Beam	None	GEN_WO...	Typical
463	L463	N800	N737	N169		LATH	Beam	None	GEN_WO...	Typical
464	L464	N737	N675	N169		LATH	Beam	None	GEN_WO...	Typical
465	L465	N675	N592	N169		LATH	Beam	None	GEN_WO...	Typical
466	L466	N592	N528	N169		LATH	Beam	None	GEN_WO...	Typical
467	L467	N528	N108	N169		LATH	Beam	None	GEN_WO...	Typical
468	L468	N108	N426	N169		LATH	Beam	None	GEN_WO...	Typical
469	L469	N801	N360	N169		LATH	Beam	None	GEN_WO...	Typical
470	L470	N360	N676	N169		LATH	Beam	None	GEN_WO...	Typical
471	L471	N676	N593	N169		LATH	Beam	None	GEN_WO...	Typical
472	L472	N593	N277	N169		LATH	Beam	None	GEN_WO...	Typical
473	L473	N277	N487	N169		LATH	Beam	None	GEN_WO...	Typical
474	L474	N487	N427	N169		LATH	Beam	None	GEN_WO...	Typical
475	L475	N802	N738	N169		LATH	Beam	None	GEN_WO...	Typical
476	L476	N738	N677	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
477	L477	N677	N594	N169		LATH	Beam	None	GEN_WO...	Typical
478	L478	N594	N529	N169		LATH	Beam	None	GEN_WO...	Typical
479	L479	N529	N109	N169		LATH	Beam	None	GEN_WO...	Typical
480	L480	N109	N428	N169		LATH	Beam	None	GEN_WO...	Typical
481	L481	N803	N361	N169		LATH	Beam	None	GEN_WO...	Typical
482	L482	N361	N678	N169		LATH	Beam	None	GEN_WO...	Typical
483	L483	N678	N595	N169		LATH	Beam	None	GEN_WO...	Typical
484	L484	N595	N278	N169		LATH	Beam	None	GEN_WO...	Typical
485	L485	N278	N488	N169		LATH	Beam	None	GEN_WO...	Typical
486	L486	N488	N429	N169		LATH	Beam	None	GEN_WO...	Typical
487	L487	N804	N739	N169		LATH	Beam	None	GEN_WO...	Typical
488	L488	N739	N679	N169		LATH	Beam	None	GEN_WO...	Typical
489	L489	N679	N596	N169		LATH	Beam	None	GEN_WO...	Typical
490	L490	N596	N530	N169		LATH	Beam	None	GEN_WO...	Typical
491	L491	N530	N110	N169		LATH	Beam	None	GEN_WO...	Typical
492	L492	N110	N430	N169		LATH	Beam	None	GEN_WO...	Typical
493	L493	N805	N362	N169		LATH	Beam	None	GEN_WO...	Typical
494	L494	N362	N680	N169		LATH	Beam	None	GEN_WO...	Typical
495	L495	N680	N597	N169		LATH	Beam	None	GEN_WO...	Typical
496	L496	N597	N279	N169		LATH	Beam	None	GEN_WO...	Typical
497	L497	N279	N489	N169		LATH	Beam	None	GEN_WO...	Typical
498	L498	N489	N431	N169		LATH	Beam	None	GEN_WO...	Typical
499	L499	N806	N740	N169		LATH	Beam	None	GEN_WO...	Typical
500	L500	N740	N681	N169		LATH	Beam	None	GEN_WO...	Typical
501	L501	N681	N598	N169		LATH	Beam	None	GEN_WO...	Typical
502	L502	N598	N531	N169		LATH	Beam	None	GEN_WO...	Typical
503	L503	N531	N111	N169		LATH	Beam	None	GEN_WO...	Typical
504	L504	N111	N432	N169		LATH	Beam	None	GEN_WO...	Typical
505	L505	N807	N363	N169		LATH	Beam	None	GEN_WO...	Typical
506	L506	N363	N682	N169		LATH	Beam	None	GEN_WO...	Typical
507	L507	N682	N599	N169		LATH	Beam	None	GEN_WO...	Typical
508	L508	N599	N280	N169		LATH	Beam	None	GEN_WO...	Typical
509	L509	N280	N490	N169		LATH	Beam	None	GEN_WO...	Typical
510	L510	N490	N433	N169		LATH	Beam	None	GEN_WO...	Typical
511	L511	N808	N741	N169		LATH	Beam	None	GEN_WO...	Typical
512	L512	N741	N683	N169		LATH	Beam	None	GEN_WO...	Typical
513	L513	N683	N600	N169		LATH	Beam	None	GEN_WO...	Typical
514	L514	N600	N532	N169		LATH	Beam	None	GEN_WO...	Typical
515	L515	N532	N112	N169		LATH	Beam	None	GEN_WO...	Typical
516	L516	N112	N434	N169		LATH	Beam	None	GEN_WO...	Typical
517	L517	N809	N364	N169		LATH	Beam	None	GEN_WO...	Typical
518	L518	N364	N684	N169		LATH	Beam	None	GEN_WO...	Typical
519	L519	N684	N601	N169		LATH	Beam	None	GEN_WO...	Typical
520	L520	N601	N281	N169		LATH	Beam	None	GEN_WO...	Typical
521	L521	N281	N491	N169		LATH	Beam	None	GEN_WO...	Typical
522	L522	N491	N435	N169		LATH	Beam	None	GEN_WO...	Typical
523	L523	N810	N742	N169		LATH	Beam	None	GEN_WO...	Typical
524	L524	N742	N685	N169		LATH	Beam	None	GEN_WO...	Typical
525	L525	N685	N602	N169		LATH	Beam	None	GEN_WO...	Typical
526	L526	N602	N533	N169		LATH	Beam	None	GEN_WO...	Typical
527	L527	N533	N113	N169		LATH	Beam	None	GEN_WO...	Typical
528	L528	N113	N436	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
529	L529	N811	N365	N169		LATH	Beam	None	GEN_WO...	Typical
530	L530	N365	N686	N169		LATH	Beam	None	GEN_WO...	Typical
531	L531	N686	N603	N169		LATH	Beam	None	GEN_WO...	Typical
532	L532	N603	N282	N169		LATH	Beam	None	GEN_WO...	Typical
533	L533	N282	N492	N169		LATH	Beam	None	GEN_WO...	Typical
534	L534	N492	N437	N169		LATH	Beam	None	GEN_WO...	Typical
535	L535	N812	N743	N169		LATH	Beam	None	GEN_WO...	Typical
536	L536	N743	N687	N169		LATH	Beam	None	GEN_WO...	Typical
537	L537	N687	N604	N169		LATH	Beam	None	GEN_WO...	Typical
538	L538	N604	N534	N169		LATH	Beam	None	GEN_WO...	Typical
539	L539	N534	N114	N169		LATH	Beam	None	GEN_WO...	Typical
540	L540	N114	N438	N169		LATH	Beam	None	GEN_WO...	Typical
541	L541	N813	N366	N169		LATH	Beam	None	GEN_WO...	Typical
542	L542	N366	N688	N169		LATH	Beam	None	GEN_WO...	Typical
543	L543	N688	N605	N169		LATH	Beam	None	GEN_WO...	Typical
544	L544	N605	N283	N169		LATH	Beam	None	GEN_WO...	Typical
545	L545	N283	N493	N169		LATH	Beam	None	GEN_WO...	Typical
546	L546	N493	N439	N169		LATH	Beam	None	GEN_WO...	Typical
547	L547	N814	N744	N169		LATH	Beam	None	GEN_WO...	Typical
548	L548	N744	N689	N169		LATH	Beam	None	GEN_WO...	Typical
549	L549	N689	N606	N169		LATH	Beam	None	GEN_WO...	Typical
550	L550	N606	N535	N169		LATH	Beam	None	GEN_WO...	Typical
551	L551	N535	N115	N169		LATH	Beam	None	GEN_WO...	Typical
552	L552	N115	N440	N169		LATH	Beam	None	GEN_WO...	Typical
553	L553	N815	N367	N169		LATH	Beam	None	GEN_WO...	Typical
554	L554	N367	N690	N169		LATH	Beam	None	GEN_WO...	Typical
555	L555	N690	N607	N169		LATH	Beam	None	GEN_WO...	Typical
556	L556	N607	N284	N169		LATH	Beam	None	GEN_WO...	Typical
557	L557	N284	N494	N169		LATH	Beam	None	GEN_WO...	Typical
558	L558	N494	N441	N169		LATH	Beam	None	GEN_WO...	Typical
559	L559	N816	N745	N169		LATH	Beam	None	GEN_WO...	Typical
560	L560	N745	N691	N169		LATH	Beam	None	GEN_WO...	Typical
561	L561	N691	N608	N169		LATH	Beam	None	GEN_WO...	Typical
562	L562	N608	N536	N169		LATH	Beam	None	GEN_WO...	Typical
563	L563	N536	N116	N169		LATH	Beam	None	GEN_WO...	Typical
564	L564	N116	N442	N169		LATH	Beam	None	GEN_WO...	Typical
565	L565	N817	N368	N169		LATH	Beam	None	GEN_WO...	Typical
566	L566	N368	N692	N169		LATH	Beam	None	GEN_WO...	Typical
567	L567	N692	N609	N169		LATH	Beam	None	GEN_WO...	Typical
568	L568	N609	N285	N169		LATH	Beam	None	GEN_WO...	Typical
569	L569	N285	N495	N169		LATH	Beam	None	GEN_WO...	Typical
570	L570	N495	N443	N169		LATH	Beam	None	GEN_WO...	Typical
571	L571	N818	N746	N169		LATH	Beam	None	GEN_WO...	Typical
572	L572	N746	N693	N169		LATH	Beam	None	GEN_WO...	Typical
573	L573	N693	N610	N169		LATH	Beam	None	GEN_WO...	Typical
574	L574	N610	N537	N169		LATH	Beam	None	GEN_WO...	Typical
575	L575	N537	N117	N169		LATH	Beam	None	GEN_WO...	Typical
576	L576	N117	N444	N169		LATH	Beam	None	GEN_WO...	Typical
577	L577	N819	N369	N169		LATH	Beam	None	GEN_WO...	Typical
578	L578	N369	N694	N169		LATH	Beam	None	GEN_WO...	Typical
579	L579	N694	N611	N169		LATH	Beam	None	GEN_WO...	Typical
580	L580	N611	N286	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
581	L581	N286	N496	N169		LATH	Beam	None	GEN_WO...	Typical
582	L582	N496	N445	N169		LATH	Beam	None	GEN_WO...	Typical
583	L583	N820	N747	N169		LATH	Beam	None	GEN_WO...	Typical
584	L584	N747	N695	N169		LATH	Beam	None	GEN_WO...	Typical
585	L585	N695	N612	N169		LATH	Beam	None	GEN_WO...	Typical
586	L586	N612	N538	N169		LATH	Beam	None	GEN_WO...	Typical
587	L587	N538	N118	N169		LATH	Beam	None	GEN_WO...	Typical
588	L588	N118	N446	N169		LATH	Beam	None	GEN_WO...	Typical
589	L589	N821	N370	N169		LATH	Beam	None	GEN_WO...	Typical
590	L590	N370	N696	N169		LATH	Beam	None	GEN_WO...	Typical
591	L591	N696	N613	N169		LATH	Beam	None	GEN_WO...	Typical
592	L592	N613	N287	N169		LATH	Beam	None	GEN_WO...	Typical
593	L593	N287	N497	N169		LATH	Beam	None	GEN_WO...	Typical
594	L594	N497	N447	N169		LATH	Beam	None	GEN_WO...	Typical
595	L595	N822	N748	N169		LATH	Beam	None	GEN_WO...	Typical
596	L596	N748	N697	N169		LATH	Beam	None	GEN_WO...	Typical
597	L597	N697	N614	N169		LATH	Beam	None	GEN_WO...	Typical
598	L598	N614	N539	N169		LATH	Beam	None	GEN_WO...	Typical
599	L599	N539	N119	N169		LATH	Beam	None	GEN_WO...	Typical
600	L600	N119	N448	N169		LATH	Beam	None	GEN_WO...	Typical
601	L601	N823	N371	N169		LATH	Beam	None	GEN_WO...	Typical
602	L602	N371	N698	N169		LATH	Beam	None	GEN_WO...	Typical
603	L603	N698	N615	N169		LATH	Beam	None	GEN_WO...	Typical
604	L604	N615	N288	N169		LATH	Beam	None	GEN_WO...	Typical
605	L605	N288	N498	N169		LATH	Beam	None	GEN_WO...	Typical
606	L606	N498	N449	N169		LATH	Beam	None	GEN_WO...	Typical
607	L607	N824	N749	N169		LATH	Beam	None	GEN_WO...	Typical
608	L608	N749	N699	N169		LATH	Beam	None	GEN_WO...	Typical
609	L609	N699	N616	N169		LATH	Beam	None	GEN_WO...	Typical
610	L610	N616	N540	N169		LATH	Beam	None	GEN_WO...	Typical
611	L611	N540	N120	N169		LATH	Beam	None	GEN_WO...	Typical
612	L612	N120	N450	N169		LATH	Beam	None	GEN_WO...	Typical
613	L613	N825	N372	N169		LATH	Beam	None	GEN_WO...	Typical
614	L614	N372	N700	N169		LATH	Beam	None	GEN_WO...	Typical
615	L615	N700	N617	N169		LATH	Beam	None	GEN_WO...	Typical
616	L616	N617	N289	N169		LATH	Beam	None	GEN_WO...	Typical
617	L617	N289	N499	N169		LATH	Beam	None	GEN_WO...	Typical
618	L618	N499	N451	N169		LATH	Beam	None	GEN_WO...	Typical
619	L619	N826	N750	N169		LATH	Beam	None	GEN_WO...	Typical
620	L620	N750	N701	N169		LATH	Beam	None	GEN_WO...	Typical
621	L621	N701	N618	N169		LATH	Beam	None	GEN_WO...	Typical
622	L622	N618	N541	N169		LATH	Beam	None	GEN_WO...	Typical
623	L623	N541	N121	N169		LATH	Beam	None	GEN_WO...	Typical
624	L624	N121	N452	N169		LATH	Beam	None	GEN_WO...	Typical
625	L625	N827	N373	N169		LATH	Beam	None	GEN_WO...	Typical
626	L626	N373	N702	N169		LATH	Beam	None	GEN_WO...	Typical
627	L627	N702	N619	N169		LATH	Beam	None	GEN_WO...	Typical
628	L628	N619	N290	N169		LATH	Beam	None	GEN_WO...	Typical
629	L629	N290	N500	N169		LATH	Beam	None	GEN_WO...	Typical
630	L630	N500	N453	N169		LATH	Beam	None	GEN_WO...	Typical
631	L631	N828	N751	N169		LATH	Beam	None	GEN_WO...	Typical
632	L632	N751	N703	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
633	L633	N703	N620	N169		LATH	Beam	None	GEN_WO...	Typical
634	L634	N620	N542	N169		LATH	Beam	None	GEN_WO...	Typical
635	L635	N542	N122	N169		LATH	Beam	None	GEN_WO...	Typical
636	L636	N122	N454	N169		LATH	Beam	None	GEN_WO...	Typical
637	L637	N829	N374	N169		LATH	Beam	None	GEN_WO...	Typical
638	L638	N374	N704	N169		LATH	Beam	None	GEN_WO...	Typical
639	L639	N704	N621	N169		LATH	Beam	None	GEN_WO...	Typical
640	L640	N621	N291	N169		LATH	Beam	None	GEN_WO...	Typical
641	L641	N291	N501	N169		LATH	Beam	None	GEN_WO...	Typical
642	L642	N501	N455	N169		LATH	Beam	None	GEN_WO...	Typical
643	L643	N830	N752	N169		LATH	Beam	None	GEN_WO...	Typical
644	L644	N752	N705	N169		LATH	Beam	None	GEN_WO...	Typical
645	L645	N705	N622	N169		LATH	Beam	None	GEN_WO...	Typical
646	L646	N622	N543	N169		LATH	Beam	None	GEN_WO...	Typical
647	L647	N543	N123	N169		LATH	Beam	None	GEN_WO...	Typical
648	L648	N123	N456	N169		LATH	Beam	None	GEN_WO...	Typical
649	L649	N831	N375	N169		LATH	Beam	None	GEN_WO...	Typical
650	L650	N375	N706	N169		LATH	Beam	None	GEN_WO...	Typical
651	L651	N706	N623	N169		LATH	Beam	None	GEN_WO...	Typical
652	L652	N623	N292	N169		LATH	Beam	None	GEN_WO...	Typical
653	L653	N292	N502	N169		LATH	Beam	None	GEN_WO...	Typical
654	L654	N502	N457	N169		LATH	Beam	None	GEN_WO...	Typical
655	L655	N832	N753	N169		LATH	Beam	None	GEN_WO...	Typical
656	L656	N753	N707	N169		LATH	Beam	None	GEN_WO...	Typical
657	L657	N707	N624	N169		LATH	Beam	None	GEN_WO...	Typical
658	L658	N624	N544	N169		LATH	Beam	None	GEN_WO...	Typical
659	L659	N544	N124	N169		LATH	Beam	None	GEN_WO...	Typical
660	L660	N124	N458	N169		LATH	Beam	None	GEN_WO...	Typical
661	L661	N833	N376	N169		LATH	Beam	None	GEN_WO...	Typical
662	L662	N376	N708	N169		LATH	Beam	None	GEN_WO...	Typical
663	L663	N708	N625	N169		LATH	Beam	None	GEN_WO...	Typical
664	L664	N625	N293	N169		LATH	Beam	None	GEN_WO...	Typical
665	L665	N293	N503	N169		LATH	Beam	None	GEN_WO...	Typical
666	L666	N503	N459	N169		LATH	Beam	None	GEN_WO...	Typical
667	L667	N834	N754	N169		LATH	Beam	None	GEN_WO...	Typical
668	L668	N754	N709	N169		LATH	Beam	None	GEN_WO...	Typical
669	L669	N709	N626	N169		LATH	Beam	None	GEN_WO...	Typical
670	L670	N626	N545	N169		LATH	Beam	None	GEN_WO...	Typical
671	L671	N545	N125	N169		LATH	Beam	None	GEN_WO...	Typical
672	L672	N125	N460	N169		LATH	Beam	None	GEN_WO...	Typical
673	L673	N835	N377	N169		LATH	Beam	None	GEN_WO...	Typical
674	L674	N377	N710	N169		LATH	Beam	None	GEN_WO...	Typical
675	L675	N710	N627	N169		LATH	Beam	None	GEN_WO...	Typical
676	L676	N627	N294	N169		LATH	Beam	None	GEN_WO...	Typical
677	L677	N294	N504	N169		LATH	Beam	None	GEN_WO...	Typical
678	L678	N504	N461	N169		LATH	Beam	None	GEN_WO...	Typical
679	L679	N836	N755	N169		LATH	Beam	None	GEN_WO...	Typical
680	L680	N755	N711	N169		LATH	Beam	None	GEN_WO...	Typical
681	L681	N711	N628	N169		LATH	Beam	None	GEN_WO...	Typical
682	L682	N628	N546	N169		LATH	Beam	None	GEN_WO...	Typical
683	L683	N546	N126	N169		LATH	Beam	None	GEN_WO...	Typical
684	L684	N126	N462	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
685	L685	N837	N378	N169		LATH	Beam	None	GEN_WO...	Typical
686	L686	N378	N712	N169		LATH	Beam	None	GEN_WO...	Typical
687	L687	N712	N629	N169		LATH	Beam	None	GEN_WO...	Typical
688	L688	N629	N295	N169		LATH	Beam	None	GEN_WO...	Typical
689	L689	N295	N505	N169		LATH	Beam	None	GEN_WO...	Typical
690	L690	N505	N463	N169		LATH	Beam	None	GEN_WO...	Typical
691	L691	N838	N756	N169		LATH	Beam	None	GEN_WO...	Typical
692	L692	N756	N713	N169		LATH	Beam	None	GEN_WO...	Typical
693	L693	N713	N630	N169		LATH	Beam	None	GEN_WO...	Typical
694	L694	N630	N547	N169		LATH	Beam	None	GEN_WO...	Typical
695	L695	N547	N85	N169		LATH	Beam	None	GEN_WO...	Typical
696	L696	N85	N380	N169		LATH	Beam	None	GEN_WO...	Typical
697	L697	N839	N379	N169		LATH	Beam	None	GEN_WO...	Typical
698	L698	N379	N714	N169		LATH	Beam	None	GEN_WO...	Typical
699	L699	N714	N631	N169		LATH	Beam	None	GEN_WO...	Typical
700	L700	N631	N254	N169		LATH	Beam	None	GEN_WO...	Typical
701	L701	N254	N464	N169		LATH	Beam	None	GEN_WO...	Typical
702	L702	N464	N381	N169		LATH	Beam	None	GEN_WO...	Typical
703	L703	N840	N757	N169		LATH	Beam	None	GEN_WO...	Typical
704	L704	N757	N715	N169		LATH	Beam	None	GEN_WO...	Typical
705	L705	N715	N548	N169		LATH	Beam	None	GEN_WO...	Typical
706	L706	N548	N506	N169		LATH	Beam	None	GEN_WO...	Typical
707	L707	N506	N86	N169		LATH	Beam	None	GEN_WO...	Typical
708	L708	N86	N382	N169		LATH	Beam	None	GEN_WO...	Typical
709	L709	N841	N338	N169		LATH	Beam	None	GEN_WO...	Typical
710	L710	N338	N632	N169		LATH	Beam	None	GEN_WO...	Typical
711	L711	N632	N549	N169		LATH	Beam	None	GEN_WO...	Typical
712	L712	N549	N255	N169		LATH	Beam	None	GEN_WO...	Typical
713	L713	N255	N465	N169		LATH	Beam	None	GEN_WO...	Typical
714	L714	N465	N383	N169		LATH	Beam	None	GEN_WO...	Typical
715	L715	N758	N338	N169		LATH	Beam	None	GEN_WO...	Typical
716	L716	N338	N715	N169		LATH	Beam	None	GEN_WO...	Typical
717	L717	N715	N630	N169		LATH	Beam	None	GEN_WO...	Typical
718	L718	N630	N295	N169		LATH	Beam	None	GEN_WO...	Typical
719	L719	N295	N504	N169		LATH	Beam	None	GEN_WO...	Typical
720	L720	N504	N460	N169		LATH	Beam	None	GEN_WO...	Typical
721	L721	N759	N716	N169		LATH	Beam	None	GEN_WO...	Typical
722	L722	N716	N632	N169		LATH	Beam	None	GEN_WO...	Typical
723	L723	N632	N631	N169		LATH	Beam	None	GEN_WO...	Typical
724	L724	N631	N547	N169		LATH	Beam	None	GEN_WO...	Typical
725	L725	N547	N126	N169		LATH	Beam	None	GEN_WO...	Typical
726	L726	N126	N461	N169		LATH	Beam	None	GEN_WO...	Typical
727	L727	N760	N339	N169		LATH	Beam	None	GEN_WO...	Typical
728	L728	N339	N633	N169		LATH	Beam	None	GEN_WO...	Typical
729	L729	N633	N548	N169		LATH	Beam	None	GEN_WO...	Typical
730	L730	N548	N254	N169		LATH	Beam	None	GEN_WO...	Typical
731	L731	N254	N505	N169		LATH	Beam	None	GEN_WO...	Typical
732	L732	N505	N462	N169		LATH	Beam	None	GEN_WO...	Typical
733	L733	N761	N717	N169		LATH	Beam	None	GEN_WO...	Typical
734	L734	N717	N634	N169		LATH	Beam	None	GEN_WO...	Typical
735	L735	N634	N549	N169		LATH	Beam	None	GEN_WO...	Typical
736	L736	N549	N506	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
737	L737	N506	N85	N169		LATH	Beam	None	GEN_WO...	Typical
738	L738	N85	N463	N169		LATH	Beam	None	GEN_WO...	Typical
739	L739	N762	N340	N169		LATH	Beam	None	GEN_WO...	Typical
740	L740	N340	N635	N169		LATH	Beam	None	GEN_WO...	Typical
741	L741	N635	N550	N169		LATH	Beam	None	GEN_WO...	Typical
742	L742	N550	N255	N169		LATH	Beam	None	GEN_WO...	Typical
743	L743	N255	N464	N169		LATH	Beam	None	GEN_WO...	Typical
744	L744	N464	N380	N169		LATH	Beam	None	GEN_WO...	Typical
745	L745	N763	N718	N169		LATH	Beam	None	GEN_WO...	Typical
746	L746	N718	N636	N169		LATH	Beam	None	GEN_WO...	Typical
747	L747	N636	N551	N169		LATH	Beam	None	GEN_WO...	Typical
748	L748	N551	N507	N169		LATH	Beam	None	GEN_WO...	Typical
749	L749	N507	N86	N169		LATH	Beam	None	GEN_WO...	Typical
750	L750	N86	N381	N169		LATH	Beam	None	GEN_WO...	Typical
751	L751	N764	N341	N169		LATH	Beam	None	GEN_WO...	Typical
752	L752	N341	N637	N169		LATH	Beam	None	GEN_WO...	Typical
753	L753	N637	N552	N169		LATH	Beam	None	GEN_WO...	Typical
754	L754	N552	N256	N169		LATH	Beam	None	GEN_WO...	Typical
755	L755	N256	N465	N169		LATH	Beam	None	GEN_WO...	Typical
756	L756	N465	N382	N169		LATH	Beam	None	GEN_WO...	Typical
757	L757	N765	N719	N169		LATH	Beam	None	GEN_WO...	Typical
758	L758	N719	N638	N169		LATH	Beam	None	GEN_WO...	Typical
759	L759	N638	N553	N169		LATH	Beam	None	GEN_WO...	Typical
760	L760	N553	N508	N169		LATH	Beam	None	GEN_WO...	Typical
761	L761	N508	N87	N169		LATH	Beam	None	GEN_WO...	Typical
762	L762	N87	N383	N169		LATH	Beam	None	GEN_WO...	Typical
763	L763	N766	N342	N169		LATH	Beam	None	GEN_WO...	Typical
764	L764	N342	N639	N169		LATH	Beam	None	GEN_WO...	Typical
765	L765	N639	N554	N169		LATH	Beam	None	GEN_WO...	Typical
766	L766	N554	N257	N169		LATH	Beam	None	GEN_WO...	Typical
767	L767	N257	N466	N169		LATH	Beam	None	GEN_WO...	Typical
768	L768	N466	N384	N169		LATH	Beam	None	GEN_WO...	Typical
769	L769	N767	N720	N169		LATH	Beam	None	GEN_WO...	Typical
770	L770	N720	N640	N169		LATH	Beam	None	GEN_WO...	Typical
771	L771	N640	N555	N169		LATH	Beam	None	GEN_WO...	Typical
772	L772	N555	N509	N169		LATH	Beam	None	GEN_WO...	Typical
773	L773	N509	N88	N169		LATH	Beam	None	GEN_WO...	Typical
774	L774	N88	N385	N169		LATH	Beam	None	GEN_WO...	Typical
775	L775	N768	N343	N169		LATH	Beam	None	GEN_WO...	Typical
776	L776	N343	N641	N169		LATH	Beam	None	GEN_WO...	Typical
777	L777	N641	N556	N169		LATH	Beam	None	GEN_WO...	Typical
778	L778	N556	N258	N169		LATH	Beam	None	GEN_WO...	Typical
779	L779	N258	N467	N169		LATH	Beam	None	GEN_WO...	Typical
780	L780	N467	N386	N169		LATH	Beam	None	GEN_WO...	Typical
781	L781	N769	N721	N169		LATH	Beam	None	GEN_WO...	Typical
782	L782	N721	N642	N169		LATH	Beam	None	GEN_WO...	Typical
783	L783	N642	N557	N169		LATH	Beam	None	GEN_WO...	Typical
784	L784	N557	N510	N169		LATH	Beam	None	GEN_WO...	Typical
785	L785	N510	N89	N169		LATH	Beam	None	GEN_WO...	Typical
786	L786	N89	N387	N169		LATH	Beam	None	GEN_WO...	Typical
787	L787	N770	N344	N169		LATH	Beam	None	GEN_WO...	Typical
788	L788	N344	N643	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
789	L789	N643	N558	N169		LATH	Beam	None	GEN_WO...	Typical
790	L790	N558	N259	N169		LATH	Beam	None	GEN_WO...	Typical
791	L791	N259	N468	N169		LATH	Beam	None	GEN_WO...	Typical
792	L792	N468	N388	N169		LATH	Beam	None	GEN_WO...	Typical
793	L793	N771	N722	N169		LATH	Beam	None	GEN_WO...	Typical
794	L794	N722	N644	N169		LATH	Beam	None	GEN_WO...	Typical
795	L795	N644	N559	N169		LATH	Beam	None	GEN_WO...	Typical
796	L796	N559	N511	N169		LATH	Beam	None	GEN_WO...	Typical
797	L797	N511	N90	N169		LATH	Beam	None	GEN_WO...	Typical
798	L798	N90	N389	N169		LATH	Beam	None	GEN_WO...	Typical
799	L799	N772	N345	N169		LATH	Beam	None	GEN_WO...	Typical
800	L800	N345	N645	N169		LATH	Beam	None	GEN_WO...	Typical
801	L801	N645	N560	N169		LATH	Beam	None	GEN_WO...	Typical
802	L802	N560	N260	N169		LATH	Beam	None	GEN_WO...	Typical
803	L803	N260	N469	N169		LATH	Beam	None	GEN_WO...	Typical
804	L804	N469	N390	N169		LATH	Beam	None	GEN_WO...	Typical
805	L805	N773	N723	N169		LATH	Beam	None	GEN_WO...	Typical
806	L806	N723	N646	N169		LATH	Beam	None	GEN_WO...	Typical
807	L807	N646	N561	N169		LATH	Beam	None	GEN_WO...	Typical
808	L808	N561	N512	N169		LATH	Beam	None	GEN_WO...	Typical
809	L809	N512	N91	N169		LATH	Beam	None	GEN_WO...	Typical
810	L810	N91	N391	N169		LATH	Beam	None	GEN_WO...	Typical
811	L811	N774	N346	N169		LATH	Beam	None	GEN_WO...	Typical
812	L812	N346	N647	N169		LATH	Beam	None	GEN_WO...	Typical
813	L813	N647	N562	N169		LATH	Beam	None	GEN_WO...	Typical
814	L814	N562	N261	N169		LATH	Beam	None	GEN_WO...	Typical
815	L815	N261	N470	N169		LATH	Beam	None	GEN_WO...	Typical
816	L816	N470	N392	N169		LATH	Beam	None	GEN_WO...	Typical
817	L817	N775	N724	N169		LATH	Beam	None	GEN_WO...	Typical
818	L818	N724	N648	N169		LATH	Beam	None	GEN_WO...	Typical
819	L819	N648	N563	N169		LATH	Beam	None	GEN_WO...	Typical
820	L820	N563	N513	N169		LATH	Beam	None	GEN_WO...	Typical
821	L821	N513	N92	N169		LATH	Beam	None	GEN_WO...	Typical
822	L822	N92	N393	N169		LATH	Beam	None	GEN_WO...	Typical
823	L823	N776	N347	N169		LATH	Beam	None	GEN_WO...	Typical
824	L824	N347	N649	N169		LATH	Beam	None	GEN_WO...	Typical
825	L825	N649	N564	N169		LATH	Beam	None	GEN_WO...	Typical
826	L826	N564	N262	N169		LATH	Beam	None	GEN_WO...	Typical
827	L827	N262	N471	N169		LATH	Beam	None	GEN_WO...	Typical
828	L828	N471	N394	N169		LATH	Beam	None	GEN_WO...	Typical
829	L829	N777	N725	N169		LATH	Beam	None	GEN_WO...	Typical
830	L830	N725	N650	N169		LATH	Beam	None	GEN_WO...	Typical
831	L831	N650	N565	N169		LATH	Beam	None	GEN_WO...	Typical
832	L832	N565	N514	N169		LATH	Beam	None	GEN_WO...	Typical
833	L833	N514	N93	N169		LATH	Beam	None	GEN_WO...	Typical
834	L834	N93	N395	N169		LATH	Beam	None	GEN_WO...	Typical
835	L835	N778	N348	N169		LATH	Beam	None	GEN_WO...	Typical
836	L836	N348	N651	N169		LATH	Beam	None	GEN_WO...	Typical
837	L837	N651	N566	N169		LATH	Beam	None	GEN_WO...	Typical
838	L838	N566	N263	N169		LATH	Beam	None	GEN_WO...	Typical
839	L839	N263	N472	N169		LATH	Beam	None	GEN_WO...	Typical
840	L840	N472	N396	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
841	L841	N779	N726	N169		LATH	Beam	None	GEN_WO...	Typical
842	L842	N726	N652	N169		LATH	Beam	None	GEN_WO...	Typical
843	L843	N652	N567	N169		LATH	Beam	None	GEN_WO...	Typical
844	L844	N567	N515	N169		LATH	Beam	None	GEN_WO...	Typical
845	L845	N515	N94	N169		LATH	Beam	None	GEN_WO...	Typical
846	L846	N94	N397	N169		LATH	Beam	None	GEN_WO...	Typical
847	L847	N780	N349	N169		LATH	Beam	None	GEN_WO...	Typical
848	L848	N349	N653	N169		LATH	Beam	None	GEN_WO...	Typical
849	L849	N653	N568	N169		LATH	Beam	None	GEN_WO...	Typical
850	L850	N568	N264	N169		LATH	Beam	None	GEN_WO...	Typical
851	L851	N264	N473	N169		LATH	Beam	None	GEN_WO...	Typical
852	L852	N473	N398	N169		LATH	Beam	None	GEN_WO...	Typical
853	L853	N781	N727	N169		LATH	Beam	None	GEN_WO...	Typical
854	L854	N727	N654	N169		LATH	Beam	None	GEN_WO...	Typical
855	L855	N654	N569	N169		LATH	Beam	None	GEN_WO...	Typical
856	L856	N569	N516	N169		LATH	Beam	None	GEN_WO...	Typical
857	L857	N516	N95	N169		LATH	Beam	None	GEN_WO...	Typical
858	L858	N95	N399	N169		LATH	Beam	None	GEN_WO...	Typical
859	L859	N782	N350	N169		LATH	Beam	None	GEN_WO...	Typical
860	L860	N350	N655	N169		LATH	Beam	None	GEN_WO...	Typical
861	L861	N655	N570	N169		LATH	Beam	None	GEN_WO...	Typical
862	L862	N570	N265	N169		LATH	Beam	None	GEN_WO...	Typical
863	L863	N265	N474	N169		LATH	Beam	None	GEN_WO...	Typical
864	L864	N474	N400	N169		LATH	Beam	None	GEN_WO...	Typical
865	L865	N783	N728	N169		LATH	Beam	None	GEN_WO...	Typical
866	L866	N728	N656	N169		LATH	Beam	None	GEN_WO...	Typical
867	L867	N656	N571	N169		LATH	Beam	None	GEN_WO...	Typical
868	L868	N571	N517	N169		LATH	Beam	None	GEN_WO...	Typical
869	L869	N517	N96	N169		LATH	Beam	None	GEN_WO...	Typical
870	L870	N96	N401	N169		LATH	Beam	None	GEN_WO...	Typical
871	L871	N784	N351	N169		LATH	Beam	None	GEN_WO...	Typical
872	L872	N351	N657	N169		LATH	Beam	None	GEN_WO...	Typical
873	L873	N657	N572	N169		LATH	Beam	None	GEN_WO...	Typical
874	L874	N572	N266	N169		LATH	Beam	None	GEN_WO...	Typical
875	L875	N266	N475	N169		LATH	Beam	None	GEN_WO...	Typical
876	L876	N475	N402	N169		LATH	Beam	None	GEN_WO...	Typical
877	L877	N785	N729	N169		LATH	Beam	None	GEN_WO...	Typical
878	L878	N729	N658	N169		LATH	Beam	None	GEN_WO...	Typical
879	L879	N658	N573	N169		LATH	Beam	None	GEN_WO...	Typical
880	L880	N573	N518	N169		LATH	Beam	None	GEN_WO...	Typical
881	L881	N518	N97	N169		LATH	Beam	None	GEN_WO...	Typical
882	L882	N97	N403	N169		LATH	Beam	None	GEN_WO...	Typical
883	L883	N786	N352	N169		LATH	Beam	None	GEN_WO...	Typical
884	L884	N352	N659	N169		LATH	Beam	None	GEN_WO...	Typical
885	L885	N659	N574	N169		LATH	Beam	None	GEN_WO...	Typical
886	L886	N574	N267	N169		LATH	Beam	None	GEN_WO...	Typical
887	L887	N267	N476	N169		LATH	Beam	None	GEN_WO...	Typical
888	L888	N476	N404	N169		LATH	Beam	None	GEN_WO...	Typical
889	L889	N787	N730	N169		LATH	Beam	None	GEN_WO...	Typical
890	L890	N730	N660	N169		LATH	Beam	None	GEN_WO...	Typical
891	L891	N660	N575	N169		LATH	Beam	None	GEN_WO...	Typical
892	L892	N575	N519	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
893	L893	N519	N98	N169		LATH	Beam	None	GEN_WO...	Typical
894	L894	N98	N405	N169		LATH	Beam	None	GEN_WO...	Typical
895	L895	N788	N353	N169		LATH	Beam	None	GEN_WO...	Typical
896	L896	N353	N661	N169		LATH	Beam	None	GEN_WO...	Typical
897	L897	N661	N576	N169		LATH	Beam	None	GEN_WO...	Typical
898	L898	N576	N268	N169		LATH	Beam	None	GEN_WO...	Typical
899	L899	N268	N477	N169		LATH	Beam	None	GEN_WO...	Typical
900	L900	N477	N406	N169		LATH	Beam	None	GEN_WO...	Typical
901	L901	N789	N731	N169		LATH	Beam	None	GEN_WO...	Typical
902	L902	N731	N662	N169		LATH	Beam	None	GEN_WO...	Typical
903	L903	N662	N577	N169		LATH	Beam	None	GEN_WO...	Typical
904	L904	N577	N520	N169		LATH	Beam	None	GEN_WO...	Typical
905	L905	N520	N99	N169		LATH	Beam	None	GEN_WO...	Typical
906	L906	N99	N407	N169		LATH	Beam	None	GEN_WO...	Typical
907	L907	N790	N354	N169		LATH	Beam	None	GEN_WO...	Typical
908	L908	N354	N663	N169		LATH	Beam	None	GEN_WO...	Typical
909	L909	N663	N578	N169		LATH	Beam	None	GEN_WO...	Typical
910	L910	N578	N269	N169		LATH	Beam	None	GEN_WO...	Typical
911	L911	N269	N478	N169		LATH	Beam	None	GEN_WO...	Typical
912	L912	N478	N408	N169		LATH	Beam	None	GEN_WO...	Typical
913	L913	N791	N732	N169		LATH	Beam	None	GEN_WO...	Typical
914	L914	N732	N664	N169		LATH	Beam	None	GEN_WO...	Typical
915	L915	N664	N579	N169		LATH	Beam	None	GEN_WO...	Typical
916	L916	N579	N521	N169		LATH	Beam	None	GEN_WO...	Typical
917	L917	N521	N100	N169		LATH	Beam	None	GEN_WO...	Typical
918	L918	N100	N409	N169		LATH	Beam	None	GEN_WO...	Typical
919	L919	N792	N355	N169		LATH	Beam	None	GEN_WO...	Typical
920	L920	N355	N665	N169		LATH	Beam	None	GEN_WO...	Typical
921	L921	N665	N580	N169		LATH	Beam	None	GEN_WO...	Typical
922	L922	N580	N270	N169		LATH	Beam	None	GEN_WO...	Typical
923	L923	N270	N479	N169		LATH	Beam	None	GEN_WO...	Typical
924	L924	N479	N410	N169		LATH	Beam	None	GEN_WO...	Typical
925	L925	N793	N733	N169		LATH	Beam	None	GEN_WO...	Typical
926	L926	N733	N666	N169		LATH	Beam	None	GEN_WO...	Typical
927	L927	N666	N581	N169		LATH	Beam	None	GEN_WO...	Typical
928	L928	N581	N522	N169		LATH	Beam	None	GEN_WO...	Typical
929	L929	N522	N101	N169		LATH	Beam	None	GEN_WO...	Typical
930	L930	N101	N411	N169		LATH	Beam	None	GEN_WO...	Typical
931	L931	N794	N356	N169		LATH	Beam	None	GEN_WO...	Typical
932	L932	N356	N667	N169		LATH	Beam	None	GEN_WO...	Typical
933	L933	N667	N582	N169		LATH	Beam	None	GEN_WO...	Typical
934	L934	N582	N271	N169		LATH	Beam	None	GEN_WO...	Typical
935	L935	N271	N480	N169		LATH	Beam	None	GEN_WO...	Typical
936	L936	N480	N412	N169		LATH	Beam	None	GEN_WO...	Typical
937	L937	N795	N734	N169		LATH	Beam	None	GEN_WO...	Typical
938	L938	N734	N668	N169		LATH	Beam	None	GEN_WO...	Typical
939	L939	N668	N583	N169		LATH	Beam	None	GEN_WO...	Typical
940	L940	N583	N523	N169		LATH	Beam	None	GEN_WO...	Typical
941	L941	N523	N102	N169		LATH	Beam	None	GEN_WO...	Typical
942	L942	N102	N413	N169		LATH	Beam	None	GEN_WO...	Typical
943	L943	N796	N357	N169		LATH	Beam	None	GEN_WO...	Typical
944	L944	N357	N669	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
945	L945	N669	N584	N169		LATH	Beam	None	GEN_WO...	Typical
946	L946	N584	N272	N169		LATH	Beam	None	GEN_WO...	Typical
947	L947	N272	N481	N169		LATH	Beam	None	GEN_WO...	Typical
948	L948	N481	N414	N169		LATH	Beam	None	GEN_WO...	Typical
949	L949	N797	N735	N169		LATH	Beam	None	GEN_WO...	Typical
950	L950	N735	N670	N169		LATH	Beam	None	GEN_WO...	Typical
951	L951	N670	N585	N169		LATH	Beam	None	GEN_WO...	Typical
952	L952	N585	N524	N169		LATH	Beam	None	GEN_WO...	Typical
953	L953	N524	N103	N169		LATH	Beam	None	GEN_WO...	Typical
954	L954	N103	N415	N169		LATH	Beam	None	GEN_WO...	Typical
955	L955	N798	N358	N169		LATH	Beam	None	GEN_WO...	Typical
956	L956	N358	N671	N169		LATH	Beam	None	GEN_WO...	Typical
957	L957	N671	N586	N169		LATH	Beam	None	GEN_WO...	Typical
958	L958	N586	N273	N169		LATH	Beam	None	GEN_WO...	Typical
959	L959	N273	N482	N169		LATH	Beam	None	GEN_WO...	Typical
960	L960	N482	N416	N169		LATH	Beam	None	GEN_WO...	Typical
961	L961	N799	N736	N169		LATH	Beam	None	GEN_WO...	Typical
962	L962	N736	N672	N169		LATH	Beam	None	GEN_WO...	Typical
963	L963	N672	N587	N169		LATH	Beam	None	GEN_WO...	Typical
964	L964	N587	N525	N169		LATH	Beam	None	GEN_WO...	Typical
965	L965	N525	N104	N169		LATH	Beam	None	GEN_WO...	Typical
966	L966	N104	N417	N169		LATH	Beam	None	GEN_WO...	Typical
967	L967	N800	N359	N169		LATH	Beam	None	GEN_WO...	Typical
968	L968	N359	N673	N169		LATH	Beam	None	GEN_WO...	Typical
969	L969	N673	N588	N169		LATH	Beam	None	GEN_WO...	Typical
970	L970	N588	N274	N169		LATH	Beam	None	GEN_WO...	Typical
971	L971	N274	N483	N169		LATH	Beam	None	GEN_WO...	Typical
972	L972	N483	N418	N169		LATH	Beam	None	GEN_WO...	Typical
973	L973	N801	N737	N169		LATH	Beam	None	GEN_WO...	Typical
974	L974	N737	N674	N169		LATH	Beam	None	GEN_WO...	Typical
975	L975	N674	N589	N169		LATH	Beam	None	GEN_WO...	Typical
976	L976	N589	N526	N169		LATH	Beam	None	GEN_WO...	Typical
977	L977	N526	N105	N169		LATH	Beam	None	GEN_WO...	Typical
978	L978	N105	N419	N169		LATH	Beam	None	GEN_WO...	Typical
979	L979	N802	N360	N169		LATH	Beam	None	GEN_WO...	Typical
980	L980	N360	N675	N169		LATH	Beam	None	GEN_WO...	Typical
981	L981	N675	N590	N169		LATH	Beam	None	GEN_WO...	Typical
982	L982	N590	N275	N169		LATH	Beam	None	GEN_WO...	Typical
983	L983	N275	N484	N169		LATH	Beam	None	GEN_WO...	Typical
984	L984	N484	N420	N169		LATH	Beam	None	GEN_WO...	Typical
985	L985	N803	N738	N169		LATH	Beam	None	GEN_WO...	Typical
986	L986	N738	N676	N169		LATH	Beam	None	GEN_WO...	Typical
987	L987	N676	N591	N169		LATH	Beam	None	GEN_WO...	Typical
988	L988	N591	N527	N169		LATH	Beam	None	GEN_WO...	Typical
989	L989	N527	N106	N169		LATH	Beam	None	GEN_WO...	Typical
990	L990	N106	N421	N169		LATH	Beam	None	GEN_WO...	Typical
991	L991	N804	N361	N169		LATH	Beam	None	GEN_WO...	Typical
992	L992	N361	N677	N169		LATH	Beam	None	GEN_WO...	Typical
993	L993	N677	N592	N169		LATH	Beam	None	GEN_WO...	Typical
994	L994	N592	N276	N169		LATH	Beam	None	GEN_WO...	Typical
995	L995	N276	N485	N169		LATH	Beam	None	GEN_WO...	Typical
996	L996	N485	N422	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
997	L997	N805	N739	N169		LATH	Beam	None	GEN_WO...	Typical
998	L998	N739	N678	N169		LATH	Beam	None	GEN_WO...	Typical
999	L999	N678	N593	N169		LATH	Beam	None	GEN_WO...	Typical
1000	L1000	N593	N528	N169		LATH	Beam	None	GEN_WO...	Typical
1001	L1001	N528	N107	N169		LATH	Beam	None	GEN_WO...	Typical
1002	L1002	N107	N423	N169		LATH	Beam	None	GEN_WO...	Typical
1003	L1003	N806	N362	N169		LATH	Beam	None	GEN_WO...	Typical
1004	L1004	N362	N679	N169		LATH	Beam	None	GEN_WO...	Typical
1005	L1005	N679	N594	N169		LATH	Beam	None	GEN_WO...	Typical
1006	L1006	N594	N277	N169		LATH	Beam	None	GEN_WO...	Typical
1007	L1007	N277	N486	N169		LATH	Beam	None	GEN_WO...	Typical
1008	L1008	N486	N424	N169		LATH	Beam	None	GEN_WO...	Typical
1009	L1009	N807	N740	N169		LATH	Beam	None	GEN_WO...	Typical
1010	L1010	N740	N680	N169		LATH	Beam	None	GEN_WO...	Typical
1011	L1011	N680	N595	N169		LATH	Beam	None	GEN_WO...	Typical
1012	L1012	N595	N529	N169		LATH	Beam	None	GEN_WO...	Typical
1013	L1013	N529	N108	N169		LATH	Beam	None	GEN_WO...	Typical
1014	L1014	N108	N425	N169		LATH	Beam	None	GEN_WO...	Typical
1015	L1015	N808	N363	N169		LATH	Beam	None	GEN_WO...	Typical
1016	L1016	N363	N681	N169		LATH	Beam	None	GEN_WO...	Typical
1017	L1017	N681	N596	N169		LATH	Beam	None	GEN_WO...	Typical
1018	L1018	N596	N278	N169		LATH	Beam	None	GEN_WO...	Typical
1019	L1019	N278	N487	N169		LATH	Beam	None	GEN_WO...	Typical
1020	L1020	N487	N426	N169		LATH	Beam	None	GEN_WO...	Typical
1021	L1021	N809	N741	N169		LATH	Beam	None	GEN_WO...	Typical
1022	L1022	N741	N682	N169		LATH	Beam	None	GEN_WO...	Typical
1023	L1023	N682	N597	N169		LATH	Beam	None	GEN_WO...	Typical
1024	L1024	N597	N530	N169		LATH	Beam	None	GEN_WO...	Typical
1025	L1025	N530	N109	N169		LATH	Beam	None	GEN_WO...	Typical
1026	L1026	N109	N427	N169		LATH	Beam	None	GEN_WO...	Typical
1027	L1027	N810	N364	N169		LATH	Beam	None	GEN_WO...	Typical
1028	L1028	N364	N683	N169		LATH	Beam	None	GEN_WO...	Typical
1029	L1029	N683	N598	N169		LATH	Beam	None	GEN_WO...	Typical
1030	L1030	N598	N279	N169		LATH	Beam	None	GEN_WO...	Typical
1031	L1031	N279	N488	N169		LATH	Beam	None	GEN_WO...	Typical
1032	L1032	N488	N428	N169		LATH	Beam	None	GEN_WO...	Typical
1033	L1033	N811	N742	N169		LATH	Beam	None	GEN_WO...	Typical
1034	L1034	N742	N684	N169		LATH	Beam	None	GEN_WO...	Typical
1035	L1035	N684	N599	N169		LATH	Beam	None	GEN_WO...	Typical
1036	L1036	N599	N531	N169		LATH	Beam	None	GEN_WO...	Typical
1037	L1037	N531	N110	N169		LATH	Beam	None	GEN_WO...	Typical
1038	L1038	N110	N429	N169		LATH	Beam	None	GEN_WO...	Typical
1039	L1039	N812	N365	N169		LATH	Beam	None	GEN_WO...	Typical
1040	L1040	N365	N685	N169		LATH	Beam	None	GEN_WO...	Typical
1041	L1041	N685	N600	N169		LATH	Beam	None	GEN_WO...	Typical
1042	L1042	N600	N280	N169		LATH	Beam	None	GEN_WO...	Typical
1043	L1043	N280	N489	N169		LATH	Beam	None	GEN_WO...	Typical
1044	L1044	N489	N430	N169		LATH	Beam	None	GEN_WO...	Typical
1045	L1045	N813	N743	N169		LATH	Beam	None	GEN_WO...	Typical
1046	L1046	N743	N686	N169		LATH	Beam	None	GEN_WO...	Typical
1047	L1047	N686	N601	N169		LATH	Beam	None	GEN_WO...	Typical
1048	L1048	N601	N532	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1049	L1049	N532	N111	N169		LATH	Beam	None	GEN_WO...	Typical
1050	L1050	N111	N431	N169		LATH	Beam	None	GEN_WO...	Typical
1051	L1051	N814	N366	N169		LATH	Beam	None	GEN_WO...	Typical
1052	L1052	N366	N687	N169		LATH	Beam	None	GEN_WO...	Typical
1053	L1053	N687	N602	N169		LATH	Beam	None	GEN_WO...	Typical
1054	L1054	N602	N281	N169		LATH	Beam	None	GEN_WO...	Typical
1055	L1055	N281	N490	N169		LATH	Beam	None	GEN_WO...	Typical
1056	L1056	N490	N432	N169		LATH	Beam	None	GEN_WO...	Typical
1057	L1057	N815	N744	N169		LATH	Beam	None	GEN_WO...	Typical
1058	L1058	N744	N688	N169		LATH	Beam	None	GEN_WO...	Typical
1059	L1059	N688	N603	N169		LATH	Beam	None	GEN_WO...	Typical
1060	L1060	N603	N533	N169		LATH	Beam	None	GEN_WO...	Typical
1061	L1061	N533	N112	N169		LATH	Beam	None	GEN_WO...	Typical
1062	L1062	N112	N433	N169		LATH	Beam	None	GEN_WO...	Typical
1063	L1063	N816	N367	N169		LATH	Beam	None	GEN_WO...	Typical
1064	L1064	N367	N689	N169		LATH	Beam	None	GEN_WO...	Typical
1065	L1065	N689	N604	N169		LATH	Beam	None	GEN_WO...	Typical
1066	L1066	N604	N282	N169		LATH	Beam	None	GEN_WO...	Typical
1067	L1067	N282	N491	N169		LATH	Beam	None	GEN_WO...	Typical
1068	L1068	N491	N434	N169		LATH	Beam	None	GEN_WO...	Typical
1069	L1069	N817	N745	N169		LATH	Beam	None	GEN_WO...	Typical
1070	L1070	N745	N690	N169		LATH	Beam	None	GEN_WO...	Typical
1071	L1071	N690	N605	N169		LATH	Beam	None	GEN_WO...	Typical
1072	L1072	N605	N534	N169		LATH	Beam	None	GEN_WO...	Typical
1073	L1073	N534	N113	N169		LATH	Beam	None	GEN_WO...	Typical
1074	L1074	N113	N435	N169		LATH	Beam	None	GEN_WO...	Typical
1075	L1075	N818	N368	N169		LATH	Beam	None	GEN_WO...	Typical
1076	L1076	N368	N691	N169		LATH	Beam	None	GEN_WO...	Typical
1077	L1077	N691	N606	N169		LATH	Beam	None	GEN_WO...	Typical
1078	L1078	N606	N283	N169		LATH	Beam	None	GEN_WO...	Typical
1079	L1079	N283	N492	N169		LATH	Beam	None	GEN_WO...	Typical
1080	L1080	N492	N436	N169		LATH	Beam	None	GEN_WO...	Typical
1081	L1081	N819	N746	N169		LATH	Beam	None	GEN_WO...	Typical
1082	L1082	N746	N692	N169		LATH	Beam	None	GEN_WO...	Typical
1083	L1083	N692	N607	N169		LATH	Beam	None	GEN_WO...	Typical
1084	L1084	N607	N535	N169		LATH	Beam	None	GEN_WO...	Typical
1085	L1085	N535	N114	N169		LATH	Beam	None	GEN_WO...	Typical
1086	L1086	N114	N437	N169		LATH	Beam	None	GEN_WO...	Typical
1087	L1087	N820	N369	N169		LATH	Beam	None	GEN_WO...	Typical
1088	L1088	N369	N693	N169		LATH	Beam	None	GEN_WO...	Typical
1089	L1089	N693	N608	N169		LATH	Beam	None	GEN_WO...	Typical
1090	L1090	N608	N284	N169		LATH	Beam	None	GEN_WO...	Typical
1091	L1091	N284	N493	N169		LATH	Beam	None	GEN_WO...	Typical
1092	L1092	N493	N438	N169		LATH	Beam	None	GEN_WO...	Typical
1093	L1093	N821	N747	N169		LATH	Beam	None	GEN_WO...	Typical
1094	L1094	N747	N694	N169		LATH	Beam	None	GEN_WO...	Typical
1095	L1095	N694	N609	N169		LATH	Beam	None	GEN_WO...	Typical
1096	L1096	N609	N536	N169		LATH	Beam	None	GEN_WO...	Typical
1097	L1097	N536	N115	N169		LATH	Beam	None	GEN_WO...	Typical
1098	L1098	N115	N439	N169		LATH	Beam	None	GEN_WO...	Typical
1099	L1099	N822	N370	N169		LATH	Beam	None	GEN_WO...	Typical
1100	L1100	N370	N695	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1101	L1101	N695	N610	N169		LATH	Beam	None	GEN_WO...	Typical
1102	L1102	N610	N285	N169		LATH	Beam	None	GEN_WO...	Typical
1103	L1103	N285	N494	N169		LATH	Beam	None	GEN_WO...	Typical
1104	L1104	N494	N440	N169		LATH	Beam	None	GEN_WO...	Typical
1105	L1105	N823	N748	N169		LATH	Beam	None	GEN_WO...	Typical
1106	L1106	N748	N696	N169		LATH	Beam	None	GEN_WO...	Typical
1107	L1107	N696	N611	N169		LATH	Beam	None	GEN_WO...	Typical
1108	L1108	N611	N537	N169		LATH	Beam	None	GEN_WO...	Typical
1109	L1109	N537	N116	N169		LATH	Beam	None	GEN_WO...	Typical
1110	L1110	N116	N441	N169		LATH	Beam	None	GEN_WO...	Typical
1111	L1111	N824	N371	N169		LATH	Beam	None	GEN_WO...	Typical
1112	L1112	N371	N697	N169		LATH	Beam	None	GEN_WO...	Typical
1113	L1113	N697	N612	N169		LATH	Beam	None	GEN_WO...	Typical
1114	L1114	N612	N286	N169		LATH	Beam	None	GEN_WO...	Typical
1115	L1115	N286	N495	N169		LATH	Beam	None	GEN_WO...	Typical
1116	L1116	N495	N442	N169		LATH	Beam	None	GEN_WO...	Typical
1117	L1117	N825	N749	N169		LATH	Beam	None	GEN_WO...	Typical
1118	L1118	N749	N698	N169		LATH	Beam	None	GEN_WO...	Typical
1119	L1119	N698	N613	N169		LATH	Beam	None	GEN_WO...	Typical
1120	L1120	N613	N538	N169		LATH	Beam	None	GEN_WO...	Typical
1121	L1121	N538	N117	N169		LATH	Beam	None	GEN_WO...	Typical
1122	L1122	N117	N443	N169		LATH	Beam	None	GEN_WO...	Typical
1123	L1123	N826	N372	N169		LATH	Beam	None	GEN_WO...	Typical
1124	L1124	N372	N699	N169		LATH	Beam	None	GEN_WO...	Typical
1125	L1125	N699	N614	N169		LATH	Beam	None	GEN_WO...	Typical
1126	L1126	N614	N287	N169		LATH	Beam	None	GEN_WO...	Typical
1127	L1127	N287	N496	N169		LATH	Beam	None	GEN_WO...	Typical
1128	L1128	N496	N444	N169		LATH	Beam	None	GEN_WO...	Typical
1129	L1129	N827	N750	N169		LATH	Beam	None	GEN_WO...	Typical
1130	L1130	N750	N700	N169		LATH	Beam	None	GEN_WO...	Typical
1131	L1131	N700	N615	N169		LATH	Beam	None	GEN_WO...	Typical
1132	L1132	N615	N539	N169		LATH	Beam	None	GEN_WO...	Typical
1133	L1133	N539	N118	N169		LATH	Beam	None	GEN_WO...	Typical
1134	L1134	N118	N445	N169		LATH	Beam	None	GEN_WO...	Typical
1135	L1135	N828	N373	N169		LATH	Beam	None	GEN_WO...	Typical
1136	L1136	N373	N701	N169		LATH	Beam	None	GEN_WO...	Typical
1137	L1137	N701	N616	N169		LATH	Beam	None	GEN_WO...	Typical
1138	L1138	N616	N288	N169		LATH	Beam	None	GEN_WO...	Typical
1139	L1139	N288	N497	N169		LATH	Beam	None	GEN_WO...	Typical
1140	L1140	N497	N446	N169		LATH	Beam	None	GEN_WO...	Typical
1141	L1141	N829	N751	N169		LATH	Beam	None	GEN_WO...	Typical
1142	L1142	N751	N702	N169		LATH	Beam	None	GEN_WO...	Typical
1143	L1143	N702	N617	N169		LATH	Beam	None	GEN_WO...	Typical
1144	L1144	N617	N540	N169		LATH	Beam	None	GEN_WO...	Typical
1145	L1145	N540	N119	N169		LATH	Beam	None	GEN_WO...	Typical
1146	L1146	N119	N447	N169		LATH	Beam	None	GEN_WO...	Typical
1147	L1147	N830	N374	N169		LATH	Beam	None	GEN_WO...	Typical
1148	L1148	N374	N703	N169		LATH	Beam	None	GEN_WO...	Typical
1149	L1149	N703	N618	N169		LATH	Beam	None	GEN_WO...	Typical
1150	L1150	N618	N289	N169		LATH	Beam	None	GEN_WO...	Typical
1151	L1151	N289	N498	N169		LATH	Beam	None	GEN_WO...	Typical
1152	L1152	N498	N448	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1153	L1153	N831	N752	N169		LATH	Beam	None	GEN_WO...	Typical
1154	L1154	N752	N704	N169		LATH	Beam	None	GEN_WO...	Typical
1155	L1155	N704	N619	N169		LATH	Beam	None	GEN_WO...	Typical
1156	L1156	N619	N541	N169		LATH	Beam	None	GEN_WO...	Typical
1157	L1157	N541	N120	N169		LATH	Beam	None	GEN_WO...	Typical
1158	L1158	N120	N449	N169		LATH	Beam	None	GEN_WO...	Typical
1159	L1159	N832	N375	N169		LATH	Beam	None	GEN_WO...	Typical
1160	L1160	N375	N705	N169		LATH	Beam	None	GEN_WO...	Typical
1161	L1161	N705	N620	N169		LATH	Beam	None	GEN_WO...	Typical
1162	L1162	N620	N290	N169		LATH	Beam	None	GEN_WO...	Typical
1163	L1163	N290	N499	N169		LATH	Beam	None	GEN_WO...	Typical
1164	L1164	N499	N450	N169		LATH	Beam	None	GEN_WO...	Typical
1165	L1165	N833	N753	N169		LATH	Beam	None	GEN_WO...	Typical
1166	L1166	N753	N706	N169		LATH	Beam	None	GEN_WO...	Typical
1167	L1167	N706	N621	N169		LATH	Beam	None	GEN_WO...	Typical
1168	L1168	N621	N542	N169		LATH	Beam	None	GEN_WO...	Typical
1169	L1169	N542	N121	N169		LATH	Beam	None	GEN_WO...	Typical
1170	L1170	N121	N451	N169		LATH	Beam	None	GEN_WO...	Typical
1171	L1171	N834	N376	N169		LATH	Beam	None	GEN_WO...	Typical
1172	L1172	N376	N707	N169		LATH	Beam	None	GEN_WO...	Typical
1173	L1173	N707	N622	N169		LATH	Beam	None	GEN_WO...	Typical
1174	L1174	N622	N291	N169		LATH	Beam	None	GEN_WO...	Typical
1175	L1175	N291	N500	N169		LATH	Beam	None	GEN_WO...	Typical
1176	L1176	N500	N452	N169		LATH	Beam	None	GEN_WO...	Typical
1177	L1177	N835	N754	N169		LATH	Beam	None	GEN_WO...	Typical
1178	L1178	N754	N708	N169		LATH	Beam	None	GEN_WO...	Typical
1179	L1179	N708	N623	N169		LATH	Beam	None	GEN_WO...	Typical
1180	L1180	N623	N543	N169		LATH	Beam	None	GEN_WO...	Typical
1181	L1181	N543	N122	N169		LATH	Beam	None	GEN_WO...	Typical
1182	L1182	N122	N453	N169		LATH	Beam	None	GEN_WO...	Typical
1183	L1183	N836	N377	N169		LATH	Beam	None	GEN_WO...	Typical
1184	L1184	N377	N709	N169		LATH	Beam	None	GEN_WO...	Typical
1185	L1185	N709	N624	N169		LATH	Beam	None	GEN_WO...	Typical
1186	L1186	N624	N292	N169		LATH	Beam	None	GEN_WO...	Typical
1187	L1187	N292	N501	N169		LATH	Beam	None	GEN_WO...	Typical
1188	L1188	N501	N454	N169		LATH	Beam	None	GEN_WO...	Typical
1189	L1189	N837	N755	N169		LATH	Beam	None	GEN_WO...	Typical
1190	L1190	N755	N710	N169		LATH	Beam	None	GEN_WO...	Typical
1191	L1191	N710	N625	N169		LATH	Beam	None	GEN_WO...	Typical
1192	L1192	N625	N544	N169		LATH	Beam	None	GEN_WO...	Typical
1193	L1193	N544	N123	N169		LATH	Beam	None	GEN_WO...	Typical
1194	L1194	N123	N455	N169		LATH	Beam	None	GEN_WO...	Typical
1195	L1195	N838	N378	N169		LATH	Beam	None	GEN_WO...	Typical
1196	L1196	N378	N711	N169		LATH	Beam	None	GEN_WO...	Typical
1197	L1197	N711	N626	N169		LATH	Beam	None	GEN_WO...	Typical
1198	L1198	N626	N293	N169		LATH	Beam	None	GEN_WO...	Typical
1199	L1199	N293	N502	N169		LATH	Beam	None	GEN_WO...	Typical
1200	L1200	N502	N456	N169		LATH	Beam	None	GEN_WO...	Typical
1201	L1201	N839	N756	N169		LATH	Beam	None	GEN_WO...	Typical
1202	L1202	N756	N712	N169		LATH	Beam	None	GEN_WO...	Typical
1203	L1203	N712	N627	N169		LATH	Beam	None	GEN_WO...	Typical
1204	L1204	N627	N545	N169		LATH	Beam	None	GEN_WO...	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1205	L1205	N545	N124	N169		LATH	Beam	None	GEN_WO...	Typical
1206	L1206	N124	N457	N169		LATH	Beam	None	GEN_WO...	Typical
1207	L1207	N840	N379	N169		LATH	Beam	None	GEN_WO...	Typical
1208	L1208	N379	N713	N169		LATH	Beam	None	GEN_WO...	Typical
1209	L1209	N713	N628	N169		LATH	Beam	None	GEN_WO...	Typical
1210	L1210	N628	N294	N169		LATH	Beam	None	GEN_WO...	Typical
1211	L1211	N294	N503	N169		LATH	Beam	None	GEN_WO...	Typical
1212	L1212	N503	N458	N169		LATH	Beam	None	GEN_WO...	Typical
1213	L1213	N841	N757	N169		LATH	Beam	None	GEN_WO...	Typical
1214	L1214	N757	N714	N169		LATH	Beam	None	GEN_WO...	Typical
1215	L1215	N714	N629	N169		LATH	Beam	None	GEN_WO...	Typical
1216	L1216	N629	N546	N169		LATH	Beam	None	GEN_WO...	Typical
1217	L1217	N546	N125	N169		LATH	Beam	None	GEN_WO...	Typical
1218	L1218	N125	N459	N169		LATH	Beam	None	GEN_WO...	Typical
1219	CB1219	N758A	N716A			1/8 CABLE	Beam	None	A36	Typical
1220	CB1220	N716A	N759A			1/8 CABLE	Beam	None	A36	Typical
1221	CB1221	N759A	N717A			1/8 CABLE	Beam	None	A36	Typical
1222	CB1222	N717A	N760A			1/8 CABLE	Beam	None	A36	Typical
1223	CB1223	N760A	N718A			1/8 CABLE	Beam	None	A36	Typical
1224	CB1224	N718A	N761A			1/8 CABLE	Beam	None	A36	Typical
1225	CB1225	N761A	N719A			1/8 CABLE	Beam	None	A36	Typical
1226	CB1226	N719A	N762A			1/8 CABLE	Beam	None	A36	Typical
1227	CB1227	N762A	N720A			1/8 CABLE	Beam	None	A36	Typical
1228	CB1228	N720A	N763A			1/8 CABLE	Beam	None	A36	Typical
1229	CB1229	N763A	N721A			1/8 CABLE	Beam	None	A36	Typical
1230	CB1230	N721A	N764A			1/8 CABLE	Beam	None	A36	Typical
1231	CB1231	N764A	N722A			1/8 CABLE	Beam	None	A36	Typical
1232	CB1232	N722A	N765A			1/8 CABLE	Beam	None	A36	Typical
1233	CB1233	N765A	N723A			1/8 CABLE	Beam	None	A36	Typical
1234	CB1234	N723A	N766A			1/8 CABLE	Beam	None	A36	Typical
1235	CB1235	N766A	N724A			1/8 CABLE	Beam	None	A36	Typical
1236	CB1236	N724A	N767A			1/8 CABLE	Beam	None	A36	Typical
1237	CB1237	N767A	N725A			1/8 CABLE	Beam	None	A36	Typical
1238	CB1238	N725A	N768A			1/8 CABLE	Beam	None	A36	Typical
1239	CB1239	N768A	N726A			1/8 CABLE	Beam	None	A36	Typical
1240	CB1240	N726A	N769A			1/8 CABLE	Beam	None	A36	Typical
1241	CB1241	N769A	N727A			1/8 CABLE	Beam	None	A36	Typical
1242	CB1242	N727A	N770A			1/8 CABLE	Beam	None	A36	Typical
1243	CB1243	N770A	N728A			1/8 CABLE	Beam	None	A36	Typical
1244	CB1244	N728A	N771A			1/8 CABLE	Beam	None	A36	Typical
1245	CB1245	N771A	N729A			1/8 CABLE	Beam	None	A36	Typical
1246	CB1246	N729A	N772A			1/8 CABLE	Beam	None	A36	Typical
1247	CB1247	N772A	N730A			1/8 CABLE	Beam	None	A36	Typical
1248	CB1248	N730A	N773A			1/8 CABLE	Beam	None	A36	Typical
1249	CB1249	N773A	N731A			1/8 CABLE	Beam	None	A36	Typical
1250	CB1250	N731A	N774A			1/8 CABLE	Beam	None	A36	Typical
1251	CB1251	N774A	N732A			1/8 CABLE	Beam	None	A36	Typical
1252	CB1252	N732A	N775A			1/8 CABLE	Beam	None	A36	Typical
1253	CB1253	N775A	N733A			1/8 CABLE	Beam	None	A36	Typical
1254	CB1254	N733A	N776A			1/8 CABLE	Beam	None	A36	Typical
1255	CB1255	N776A	N734A			1/8 CABLE	Beam	None	A36	Typical
1256	CB1256	N734A	N777A			1/8 CABLE	Beam	None	A36	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1257	CB1257	N777A	N735A			1/8 CABLE	Beam	None	A36	Typical
1258	CB1258	N735A	N778A			1/8 CABLE	Beam	None	A36	Typical
1259	CB1259	N778A	N736A			1/8 CABLE	Beam	None	A36	Typical
1260	CB1260	N736A	N758A			1/8 CABLE	Beam	None	A36	Typical
1261	CB1261	N779A	N737A			1/8 CABLE	Beam	None	A36	Typical
1262	CB1262	N737A	N780A			1/8 CABLE	Beam	None	A36	Typical
1263	CB1263	N780A	N738A			1/8 CABLE	Beam	None	A36	Typical
1264	CB1264	N738A	N781A			1/8 CABLE	Beam	None	A36	Typical
1265	CB1265	N781A	N739A			1/8 CABLE	Beam	None	A36	Typical
1266	CB1266	N739A	N782A			1/8 CABLE	Beam	None	A36	Typical
1267	CB1267	N782A	N740A			1/8 CABLE	Beam	None	A36	Typical
1268	CB1268	N740A	N783A			1/8 CABLE	Beam	None	A36	Typical
1269	CB1269	N783A	N741A			1/8 CABLE	Beam	None	A36	Typical
1270	CB1270	N741A	N784A			1/8 CABLE	Beam	None	A36	Typical
1271	CB1271	N784A	N742A			1/8 CABLE	Beam	None	A36	Typical
1272	CB1272	N742A	N785A			1/8 CABLE	Beam	None	A36	Typical
1273	CB1273	N785A	N743A			1/8 CABLE	Beam	None	A36	Typical
1274	CB1274	N743A	N786A			1/8 CABLE	Beam	None	A36	Typical
1275	CB1275	N786A	N744A			1/8 CABLE	Beam	None	A36	Typical
1276	CB1276	N744A	N787A			1/8 CABLE	Beam	None	A36	Typical
1277	CB1277	N787A	N745A			1/8 CABLE	Beam	None	A36	Typical
1278	CB1278	N745A	N788A			1/8 CABLE	Beam	None	A36	Typical
1279	CB1279	N788A	N746A			1/8 CABLE	Beam	None	A36	Typical
1280	CB1280	N746A	N789A			1/8 CABLE	Beam	None	A36	Typical
1281	CB1281	N789A	N747A			1/8 CABLE	Beam	None	A36	Typical
1282	CB1282	N747A	N790A			1/8 CABLE	Beam	None	A36	Typical
1283	CB1283	N790A	N748A			1/8 CABLE	Beam	None	A36	Typical
1284	CB1284	N748A	N791A			1/8 CABLE	Beam	None	A36	Typical
1285	CB1285	N791A	N749A			1/8 CABLE	Beam	None	A36	Typical
1286	CB1286	N749A	N792A			1/8 CABLE	Beam	None	A36	Typical
1287	CB1287	N792A	N750A			1/8 CABLE	Beam	None	A36	Typical
1288	CB1288	N750A	N793A			1/8 CABLE	Beam	None	A36	Typical
1289	CB1289	N793A	N751A			1/8 CABLE	Beam	None	A36	Typical
1290	CB1290	N751A	N794A			1/8 CABLE	Beam	None	A36	Typical
1291	CB1291	N794A	N752A			1/8 CABLE	Beam	None	A36	Typical
1292	CB1292	N752A	N795A			1/8 CABLE	Beam	None	A36	Typical
1293	CB1293	N795A	N753A			1/8 CABLE	Beam	None	A36	Typical
1294	CB1294	N753A	N796A			1/8 CABLE	Beam	None	A36	Typical
1295	CB1295	N796A	N754A			1/8 CABLE	Beam	None	A36	Typical
1296	CB1296	N754A	N797A			1/8 CABLE	Beam	None	A36	Typical
1297	CB1297	N797A	N755A			1/8 CABLE	Beam	None	A36	Typical
1298	CB1298	N755A	N798A			1/8 CABLE	Beam	None	A36	Typical
1299	CB1299	N798A	N756A			1/8 CABLE	Beam	None	A36	Typical
1300	CB1300	N756A	N799A			1/8 CABLE	Beam	None	A36	Typical
1301	CB1301	N799A	N757A			1/8 CABLE	Beam	None	A36	Typical
1302	CB1302	N757A	N779A			1/8 CABLE	Beam	None	A36	Typical
1303	CP1	N169	N800A			CENTERPOST	Column	Tube	TUBE	Typical
1304	PA1	N800A	N22			POSTARM	Column	Tube	TUBE	Typical
1305	PA2	N800A	N802A			POSTARM	Column	Tube	TUBE	Typical
1306	PA3	N800A	N1			POSTARM	Column	Tube	TUBE	Typical
1307	PA4	N800A	N801A			POSTARM	Column	Tube	TUBE	Typical
1308	RNG11A	N801A	N12		90	RING	Beam	Rectangular D...	RING	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1309	RNG32A	N802A	N33		90	RING	Beam	Rectangular D...	RING	Typical
1310	RNG41A	N803A	N42		90	RING	Beam	Rectangular D...	RING	Typical
1311	RNG2A	N804A	N3		90	RING	Beam	Rectangular D...	RING	Typical
1312	RNG20A	N805A	N21		90	RING	Beam	Rectangular D...	RING	Typical
1313	RNG23A	N806A	N24		90	RING	Beam	Rectangular D...	RING	Typical
1314	BR1314	N803A	N42			BRACKET	Beam	Channel	A36	Typical
1315	BR1315	N42	N1			BRACKET	Beam	Channel	A36	Typical
1316	BR1316	N1	N2			BRACKET	Beam	Channel	A36	Typical
1317	BR1317	N2	N804A			BRACKET	Beam	Channel	A36	Typical
1318	BR1318	N10	N11			BRACKET	Beam	Channel	A36	Typical
1319	BR1319	N11	N801A			BRACKET	Beam	Channel	A36	Typical
1320	BR1320	N801A	N12			BRACKET	Beam	Channel	A36	Typical
1321	BR1321	N12	N13			BRACKET	Beam	Channel	A36	Typical
1322	BR1322	N805A	N21			BRACKET	Beam	Channel	A36	Typical
1323	BR1323	N21	N22			BRACKET	Beam	Channel	A36	Typical
1324	BR1324	N22	N23			BRACKET	Beam	Channel	A36	Typical
1325	BR1325	N23	N806A			BRACKET	Beam	Channel	A36	Typical
1326	BR1326	N31	N32			BRACKET	Beam	Channel	A36	Typical
1327	BR1327	N32	N802A			BRACKET	Beam	Channel	A36	Typical
1328	BR1328	N802A	N33			BRACKET	Beam	Channel	A36	Typical
1329	BR1329	N33	N34			BRACKET	Beam	Channel	A36	Typical

Wood Design Parameters

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
1	RNG1	RING	.336			Lbyy				1			
2	RNG2	RING	.168			Lbyy				1			
3	RNG3	RING	.336			Lbyy				1			
4	RNG4	RING	.336			Lbyy				1			
5	RNG5	RING	.336			Lbyy				1			
6	RNG6	RING	.336			Lbyy				1			
7	RNG7	RING	.337			Lbyy				1			
8	RNG8	RING	.336			Lbyy				1			
9	RNG9	RING	.337			Lbyy				1			
10	RNG10	RING	.336			Lbyy				1			
11	RNG11	RING	.168			Lbyy				1			
12	RNG12	RING	.336			Lbyy				1			
13	RNG13	RING	.337			Lbyy				1			
14	RNG14	RING	.336			Lbyy				1			
15	RNG15	RING	.337			Lbyy				1			
16	RNG16	RING	.336			Lbyy				1			
17	RNG17	RING	.336			Lbyy				1			
18	RNG18	RING	.336			Lbyy				1			
19	RNG19	RING	.336			Lbyy				1			
20	RNG20	RING	.168			Lbyy				1			
21	RNG21	RING	.336			Lbyy				1			
22	RNG22	RING	.336			Lbyy				1			
23	RNG23	RING	.168			Lbyy				1			
24	RNG24	RING	.336			Lbyy				1			
25	RNG25	RING	.336			Lbyy				1			
26	RNG26	RING	.336			Lbyy				1			

Wood Design Parameters (Continued)

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
27	RNG27	RING	.336			Lbyy				1			
28	RNG28	RING	.337			Lbyy				1			
29	RNG29	RING	.336			Lbyy				1			
30	RNG30	RING	.337			Lbyy				1			
31	RNG31	RING	.336			Lbyy				1			
32	RNG32	RING	.168			Lbyy				1			
33	RNG33	RING	.336			Lbyy				1			
34	RNG34	RING	.337			Lbyy				1			
35	RNG35	RING	.336			Lbyy				1			
36	RNG36	RING	.337			Lbyy				1			
37	RNG37	RING	.336			Lbyy				1			
38	RNG38	RING	.336			Lbyy				1			
39	RNG39	RING	.336			Lbyy				1			
40	RNG40	RING	.336			Lbyy				1			
41	RNG41	RING	.168			Lbyy				1			
42	RNG42	RING	.336			Lbyy				1			
43	ST1	POST	7	3.5		Lbyy				1	Yes		
44	ST2	POST	7	3.5		Lbyy				1	Yes		
45	ST3	POST	7	3.5		Lbyy				1	Yes		
46	ST4	POST	7	3.5		Lbyy				1	Yes		
47	ST5	POST	7	3.5		Lbyy				1	Yes		
48	ST6	POST	7	3.5		Lbyy				1	Yes		
49	ST7	POST	7	3.5		Lbyy				1	Yes		
50	ST8	POST	7	3.5		Lbyy				1	Yes		
51	ST9	POST	7	3.5		Lbyy				1	Yes		
52	ST10	POST	7	3.5		Lbyy				1	Yes		
53	ST11	POST	7	3.5		Lbyy				1	Yes		
54	ST12	POST	7	3.5		Lbyy				1	Yes		
55	ST13	POST	7	3.5		Lbyy				1	Yes		
56	ST14	POST	7	3.5		Lbyy				1	Yes		
57	ST15	POST	7	3.5		Lbyy				1	Yes		
58	ST16	POST	7	3.5		Lbyy				1	Yes		
59	ST17	POST	7	3.5		Lbyy				1	Yes		
60	ST18	POST	7	3.5		Lbyy				1	Yes		
61	ST19	POST	7	3.5		Lbyy				1	Yes		
62	ST20	POST	7	3.5		Lbyy				1	Yes		
63	ST21	POST	7	3.5		Lbyy				1	Yes		
64	ST22	POST	7	3.5		Lbyy				1	Yes		
65	ST23	POST	7	3.5		Lbyy				1	Yes		
66	ST24	POST	7	3.5		Lbyy				1	Yes		
67	ST25	POST	7	3.5		Lbyy				1	Yes		
68	ST26	POST	7	3.5		Lbyy				1	Yes		
69	ST27	POST	7	3.5		Lbyy				1	Yes		
70	ST28	POST	7	3.5		Lbyy				1	Yes		
71	ST29	POST	7	3.5		Lbyy				1	Yes		
72	ST30	POST	7	3.5		Lbyy				1	Yes		
73	ST31	POST	7	3.5		Lbyy				1	Yes		
74	ST32	POST	7	3.5		Lbyy				1	Yes		
75	ST33	POST	7	3.5		Lbyy				1	Yes		
76	ST34	POST	7	3.5		Lbyy				1	Yes		
77	ST35	POST	7	3.5		Lbyy				1	Yes		
78	ST36	POST	7	3.5		Lbyy				1	Yes		

Wood Design Parameters (Continued)

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
79	ST37	POST	7	3.5		Lbyy				1	Yes		
80	ST38	POST	7	3.5		Lbyy				1	Yes		
81	ST39	POST	7	3.5		Lbyy				1	Yes		
82	ST40	POST	7	3.5		Lbyy				1	Yes		
83	ST41	POST	7	3.5		Lbyy				1	Yes		
84	ST42	POST	7	3.5		Lbyy				1	Yes		
85	R1	RAFTER	11.112	3.75		3.75	3.75			1			
86	R2	RAFTER	11.112	3.75		3.75	3.75			1			
87	R3	RAFTER	11.112	3.75		3.75	3.75			1			
88	R4	RAFTER	11.112	3.75		3.75	3.75			1			
89	R5	RAFTER	11.112	3.75		3.75	3.75			1			
90	R6	RAFTER	11.112	3.75		3.75	3.75			1			
91	R7	RAFTER	11.112	3.75		3.75	3.75			1			
92	R8	RAFTER	11.111	3.75		3.75	3.75			1			
93	R9	RAFTER	11.112	3.75		3.75	3.75			1			
94	R10	RAFTER	11.111	3.75		3.75	3.75			1			
95	R11	RAFTER	11.111	3.75		3.75	3.75			1			
96	R12	RAFTER	11.111	3.75		3.75	3.75			1			
97	R13	RAFTER	11.111	3.75		3.75	3.75			1			
98	R14	RAFTER	11.112	3.75		3.75	3.75			1			
99	R15	RAFTER	11.111	3.75		3.75	3.75			1			
100	R16	RAFTER	11.112	3.75		3.75	3.75			1			
101	R17	RAFTER	11.112	3.75		3.75	3.75			1			
102	R18	RAFTER	11.112	3.75		3.75	3.75			1			
103	R19	RAFTER	11.112	3.75		3.75	3.75			1			
104	R20	RAFTER	11.112	3.75		3.75	3.75			1			
105	R21	RAFTER	11.112	3.75		3.75	3.75			1			
106	R22	RAFTER	11.112	3.75		3.75	3.75			1			
107	R23	RAFTER	11.112	3.75		3.75	3.75			1			
108	R24	RAFTER	11.112	3.75		3.75	3.75			1			
109	R25	RAFTER	11.112	3.75		3.75	3.75			1			
110	R26	RAFTER	11.112	3.75		3.75	3.75			1			
111	R27	RAFTER	11.112	3.75		3.75	3.75			1			
112	R28	RAFTER	11.112	3.75		3.75	3.75			1			
113	R29	RAFTER	11.111	3.75		3.75	3.75			1			
114	R30	RAFTER	11.112	3.75		3.75	3.75			1			
115	R31	RAFTER	11.111	3.75		3.75	3.75			1			
116	R32	RAFTER	11.111	3.75		3.75	3.75			1			
117	R33	RAFTER	11.111	3.75		3.75	3.75			1			
118	R34	RAFTER	11.111	3.75		3.75	3.75			1			
119	R35	RAFTER	11.112	3.75		3.75	3.75			1			
120	R36	RAFTER	11.111	3.75		3.75	3.75			1			
121	R37	RAFTER	11.112	3.75		3.75	3.75			1			
122	R38	RAFTER	11.112	3.75		3.75	3.75			1			
123	R39	RAFTER	11.112	3.75		3.75	3.75			1			
124	R40	RAFTER	11.112	3.75		3.75	3.75			1			
125	R41	RAFTER	11.112	3.75		3.75	3.75			1			
126	R42	RAFTER	11.112	3.75		3.75	3.75			1			
127	BLK1219	BLOCKING	1.794			Lbyy				1			
128	BLK1220	BLOCKING	1.793			Lbyy				1			
129	BLK1221	BLOCKING	1.794			Lbyy				1			
130	BLK1222	BLOCKING	1.793			Lbyy				1			

Wood Design Parameters (Continued)

	Label	Shape	Length...	le2[ft]	le1[ft]	le-bend top[ft]	le-bend b...	Kyy	Kzz	CV	Cr	y sway	z sway
131	BLK1223	BLOCKING	1.793			Lbyy				1			
132	BLK1224	BLOCKING	1.794			Lbyy				1			
133	BLK1225	BLOCKING	1.793			Lbyy				1			
134	BLK1226	BLOCKING	1.793			Lbyy				1			
135	BLK1227	BLOCKING	1.794			Lbyy				1			
136	BLK1228	BLOCKING	1.793			Lbyy				1			
137	BLK1229	BLOCKING	1.794			Lbyy				1			
138	BLK1230	BLOCKING	1.793			Lbyy				1			
139	BLK1231	BLOCKING	1.794			Lbyy				1			
140	BLK1232	BLOCKING	1.793			Lbyy				1			
141	BLK1233	BLOCKING	1.793			Lbyy				1			
142	BLK1234	BLOCKING	1.794			Lbyy				1			
143	BLK1235	BLOCKING	1.793			Lbyy				1			
144	BLK1236	BLOCKING	1.793			Lbyy				1			
145	BLK1237	BLOCKING	1.794			Lbyy				1			
146	BLK1238	BLOCKING	1.793			Lbyy				1			
147	BLK1239	BLOCKING	1.794			Lbyy				1			
148	BLK1240	BLOCKING	1.794			Lbyy				1			
149	BLK1241	BLOCKING	1.793			Lbyy				1			
150	BLK1242	BLOCKING	1.794			Lbyy				1			
151	BLK1243	BLOCKING	1.793			Lbyy				1			
152	BLK1244	BLOCKING	1.793			Lbyy				1			
153	BLK1245	BLOCKING	1.794			Lbyy				1			
154	BLK1246	BLOCKING	1.793			Lbyy				1			
155	BLK1247	BLOCKING	1.793			Lbyy				1			
156	BLK1248	BLOCKING	1.794			Lbyy				1			
157	BLK1249	BLOCKING	1.793			Lbyy				1			
158	BLK1250	BLOCKING	1.794			Lbyy				1			
159	BLK1251	BLOCKING	1.793			Lbyy				1			
160	BLK1252	BLOCKING	1.794			Lbyy				1			
161	BLK1253	BLOCKING	1.793			Lbyy				1			
162	BLK1254	BLOCKING	1.793			Lbyy				1			
163	BLK1255	BLOCKING	1.794			Lbyy				1			
164	BLK1256	BLOCKING	1.793			Lbyy				1			
165	BLK1257	BLOCKING	1.793			Lbyy				1			
166	BLK1258	BLOCKING	1.794			Lbyy				1			
167	BLK1259	BLOCKING	1.793			Lbyy				1			
168	BLK1260	BLOCKING	1.794			Lbyy				1			
169	RNG11A	RING	.168			Lbyy				1			
170	RNG32A	RING	.168			Lbyy				1			
171	RNG41A	RING	.168			Lbyy				1			
172	RNG2A	RING	.168			Lbyy				1			
173	RNG20A	RING	.168			Lbyy				1			
174	RNG23A	RING	.168			Lbyy				1			

Joint Loads and Enforced Displacements

Joint Label	L,D,M	Direction	Magnitude[(k,k-ft), (in,rad), (k*s^2/f...
No Data to Print ...			

Member Point Loads (BLC 3 : wind torsion)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	ST1	z	.005	0
2	ST2	z	.005	0
3	ST3	z	.005	0
4	ST4	z	.005	0
5	ST5	z	.005	0
6	ST6	z	.005	0
7	ST7	z	.005	0
8	ST8	z	.005	0
9	ST9	z	.005	0
10	ST10	z	.005	0
11	ST11	z	.005	0
12	ST12	z	.005	0
13	ST13	z	.005	0
14	ST14	z	.005	0
15	ST15	z	.005	0
16	ST16	z	.005	0
17	ST17	z	.005	0
18	ST18	z	.005	0
19	ST19	z	.005	0
20	ST20	z	.005	0
21	ST21	z	.005	0
22	ST22	z	.005	0
23	ST23	z	.005	0
24	ST24	z	.005	0
25	ST25	z	.005	0
26	ST26	z	.005	0
27	ST27	z	.005	0
28	ST28	z	.005	0
29	ST29	z	.005	0
30	ST30	z	.005	0
31	ST31	z	.005	0
32	ST32	z	.005	0
33	ST33	z	.005	0
34	ST34	z	.005	0
35	ST35	z	.005	0
36	ST36	z	.005	0
37	ST37	z	.005	0
38	ST38	z	.005	0
39	ST39	z	.005	0
40	ST40	z	.005	0
41	ST41	z	.005	0
42	ST42	z	.005	0

Member Distributed Loads (BLC 1 : wind on studs)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	ST22	Z	.005	.005	0	0
2	ST21	Z	.004	.004	0	0
3	ST23	Z	.004	.004	0	0
4	ST20	Z	.004	.004	0	0

Member Distributed Loads (BLC 1 : wind on studs) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	ST24	Z	.004	.004	0	0
6	ST19	Z	.004	.004	0	0
7	ST25	Z	.004	.004	0	0
8	ST18	Z	.004	.004	0	0
9	ST26	Z	.004	.004	0	0
10	ST17	Z	.003	.003	0	0
11	ST27	Z	.003	.003	0	0
12	ST16	Z	.003	.003	0	0
13	ST28	Z	.003	.003	0	0
14	ST15	Z	.002	.002	0	0
15	ST29	Z	.002	.002	0	0
16	ST14	Z	.002	.002	0	0
17	ST30	Z	.002	.002	0	0
18	ST13	Z	.001	.001	0	0
19	ST31	Z	.001	.001	0	0
20	ST1	Z	.003	.003	0	0
21	ST42	Z	.003	.003	0	0
22	ST2	Z	.003	.003	0	0
23	ST41	Z	.003	.003	0	0
24	ST3	Z	.003	.003	0	0
25	ST40	Z	.003	.003	0	0
26	ST4	Z	.003	.003	0	0
27	ST39	Z	.003	.003	0	0
28	ST5	Z	.003	.003	0	0
29	ST38	Z	.002	.002	0	0
30	ST6	Z	.002	.002	0	0
31	ST37	Z	.002	.002	0	0
32	ST7	Z	.002	.002	0	0
33	ST36	Z	.002	.002	0	0
34	ST8	Z	.002	.002	0	0
35	ST35	Z	.001	.001	0	0
36	ST9	Z	.001	.001	0	0
37	ST34	Z	.0007	.0007	0	0
38	ST10	Z	.0007	.0007	0	0
39	ST32	Z	.0002	.0002	0	0
40	ST11	Z	.0002	.0002	0	0
41	ST12	Z	.0003	.0003	0	0
42	ST33	Z	.0002	.0002	0	0

Member Distributed Loads (BLC 2 : wind on rafters case A)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	R22	y	.003	.012	0	0
2	R21	y	.003	.013	0	0
3	R23	y	.003	.013	0	0
4	R20	y	.003	.013	0	0
5	R24	y	.003	.013	0	0
6	R19	y	.003	.014	0	0
7	R25	y	.003	.014	0	0
8	R18	y	.003	.015	0	0
9	R26	y	.003	.015	0	0
10	R17	y	.003	.015	0	0

Member Distributed Loads (BLC 2 : wind on rafters case A) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	R27	y	.003	.015	0	0
12	R16	y	.003	.016	0	0
13	R28	y	.003	.016	0	0
14	R15	y	.003	.016	0	0
15	R29	y	.003	.016	0	0
16	R14	y	.003	.016	0	0
17	R30	y	.003	.016	0	0
18	R13	y	.003	.017	0	0
19	R31	y	.003	.017	0	0
20	R12	y	.003	.017	0	0
21	R32	y	.003	.017	0	0
22	R1	y	.003	.007	0	0
23	R42	y	.003	.009	0	0
24	R2	y	.003	.009	0	0
25	R41	y	.003	.01	0	0
26	R3	y	.003	.01	0	0
27	R40	y	.003	.011	0	0
28	R4	y	.003	.011	0	0
29	R39	y	.003	.013	0	0
30	R5	y	.003	.013	0	0
31	R38	y	.003	.014	0	0
32	R6	y	.003	.014	0	0
33	R37	y	.003	.015	0	0
34	R7	y	.003	.015	0	0
35	R36	y	.003	.015	0	0
36	R8	y	.003	.015	0	0
37	R35	y	.003	.016	0	0
38	R9	y	.003	.016	0	0
39	R34	y	.003	.016	0	0
40	R10	y	.003	.016	0	0
41	R33	y	.003	.017	0	0
42	R11	y	.003	.017	0	0

Member Distributed Loads (BLC 4 : wind on ring)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	RNG1	Y	.01	.01	0	0
2	RNG2	Y	.01	.01	0	0
3	RNG3	Y	.01	.01	0	0
4	RNG4	Y	.01	.01	0	0
5	RNG5	Y	.01	.01	0	0
6	RNG6	Y	.01	.01	0	0
7	RNG7	Y	.01	.01	0	0
8	RNG8	Y	.01	.01	0	0
9	RNG9	Y	.01	.01	0	0
10	RNG10	Y	.01	.01	0	0
11	RNG11	Y	.01	.01	0	0
12	RNG12	Y	.01	.01	0	0
13	RNG13	Y	.01	.01	0	0
14	RNG14	Y	.01	.01	0	0
15	RNG15	Y	.01	.01	0	0
16	RNG16	Y	.01	.01	0	0

Member Distributed Loads (BLC 4 : wind on ring) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	RNG17	Y	.01	.01	0	0
18	RNG18	Y	.01	.01	0	0
19	RNG19	Y	.01	.01	0	0
20	RNG20	Y	.01	.01	0	0
21	RNG21	Y	.01	.01	0	0
22	RNG22	Y	.01	.01	0	0
23	RNG23	Y	.01	.01	0	0
24	RNG24	Y	.01	.01	0	0
25	RNG25	Y	.01	.01	0	0
26	RNG26	Y	.01	.01	0	0
27	RNG27	Y	.01	.01	0	0
28	RNG28	Y	.01	.01	0	0
29	RNG29	Y	.01	.01	0	0
30	RNG30	Y	.01	.01	0	0
31	RNG31	Y	.01	.01	0	0
32	RNG32	Y	.01	.01	0	0
33	RNG33	Y	.01	.01	0	0
34	RNG34	Y	.01	.01	0	0
35	RNG35	Y	.01	.01	0	0
36	RNG36	Y	.01	.01	0	0
37	RNG37	Y	.01	.01	0	0
38	RNG38	Y	.01	.01	0	0
39	RNG39	Y	.01	.01	0	0
40	RNG40	Y	.01	.01	0	0
41	RNG41	Y	.01	.01	0	0
42	RNG42	Y	.01	.01	0	0
43	RNG11A	Y	.01	.01	0	.168
44	RNG32A	Y	.01	.01	0	.168
45	RNG41A	Y	.01	.01	0	.168
46	RNG2A	Y	.01	.01	0	.168
47	RNG20A	Y	.01	.01	0	.168
48	RNG23A	Y	.01	.01	0	.168

Member Distributed Loads (BLC 5 : 10 psf snow)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	R1	PY	-.004	-.018	0	0
2	R2	PY	-.004	-.018	0	0
3	R3	PY	-.004	-.018	0	0
4	R4	PY	-.004	-.018	0	0
5	R5	PY	-.004	-.018	0	0
6	R6	PY	-.004	-.018	0	0
7	R7	PY	-.004	-.018	0	0
8	R8	PY	-.004	-.018	0	0
9	R9	PY	-.004	-.018	0	0
10	R10	PY	-.004	-.018	0	0
11	R11	PY	-.004	-.018	0	0
12	R12	PY	-.004	-.018	0	0
13	R13	PY	-.004	-.018	0	0
14	R14	PY	-.004	-.018	0	0
15	R15	PY	-.004	-.018	0	0
16	R16	PY	-.004	-.018	0	0

Member Distributed Loads (BLC 5 : 10 psf snow) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	R17	PY	-.004	-.018	0	0
18	R18	PY	-.004	-.018	0	0
19	R19	PY	-.004	-.018	0	0
20	R20	PY	-.004	-.018	0	0
21	R21	PY	-.004	-.018	0	0
22	R22	PY	-.004	-.018	0	0
23	R23	PY	-.004	-.018	0	0
24	R24	PY	-.004	-.018	0	0
25	R25	PY	-.004	-.018	0	0
26	R26	PY	-.004	-.018	0	0
27	R27	PY	-.004	-.018	0	0
28	R28	PY	-.004	-.018	0	0
29	R29	PY	-.004	-.018	0	0
30	R30	PY	-.004	-.018	0	0
31	R31	PY	-.004	-.018	0	0
32	R32	PY	-.004	-.018	0	0
33	R33	PY	-.004	-.018	0	0
34	R34	PY	-.004	-.018	0	0
35	R35	PY	-.004	-.018	0	0
36	R36	PY	-.004	-.018	0	0
37	R37	PY	-.004	-.018	0	0
38	R38	PY	-.004	-.018	0	0
39	R39	PY	-.004	-.018	0	0
40	R40	PY	-.004	-.018	0	0
41	R41	PY	-.004	-.018	0	0
42	R42	PY	-.004	-.018	0	0
43	RNG1	PY	-.011	-.011	0	0
44	RNG2	PY	-.011	-.011	0	0
45	RNG3	PY	-.011	-.011	0	0
46	RNG4	PY	-.011	-.011	0	0
47	RNG5	PY	-.011	-.011	0	0
48	RNG6	PY	-.011	-.011	0	0
49	RNG7	PY	-.011	-.011	0	0
50	RNG8	PY	-.011	-.011	0	0
51	RNG9	PY	-.011	-.011	0	0
52	RNG10	PY	-.011	-.011	0	0
53	RNG11	PY	-.011	-.011	0	0
54	RNG12	PY	-.011	-.011	0	0
55	RNG13	PY	-.011	-.011	0	0
56	RNG14	PY	-.011	-.011	0	0
57	RNG15	PY	-.011	-.011	0	0
58	RNG16	PY	-.011	-.011	0	0
59	RNG17	PY	-.011	-.011	0	0
60	RNG18	PY	-.011	-.011	0	0
61	RNG19	PY	-.011	-.011	0	0
62	RNG20	PY	-.011	-.011	0	0
63	RNG21	PY	-.011	-.011	0	0
64	RNG22	PY	-.011	-.011	0	0
65	RNG23	PY	-.011	-.011	0	0
66	RNG24	PY	-.011	-.011	0	0
67	RNG25	PY	-.011	-.011	0	0
68	RNG26	PY	-.011	-.011	0	0

Member Distributed Loads (BLC 5 : 10 psf snow) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
69	RNG27	PY	-.011	-.011	0	0
70	RNG28	PY	-.011	-.011	0	0
71	RNG29	PY	-.011	-.011	0	0
72	RNG30	PY	-.011	-.011	0	0
73	RNG31	PY	-.011	-.011	0	0
74	RNG32	PY	-.011	-.011	0	0
75	RNG33	PY	-.011	-.011	0	0
76	RNG34	PY	-.011	-.011	0	0
77	RNG35	PY	-.011	-.011	0	0
78	RNG36	PY	-.011	-.011	0	0
79	RNG37	PY	-.011	-.011	0	0
80	RNG38	PY	-.011	-.011	0	0
81	RNG39	PY	-.011	-.011	0	0
82	RNG40	PY	-.011	-.011	0	0
83	RNG41	PY	-.011	-.011	0	0
84	RNG42	PY	-.011	-.011	0	0
85	RNG11A	PY	-.011	-.011	0	.168
86	RNG32A	PY	-.011	-.011	0	.168
87	RNG41A	PY	-.011	-.011	0	.168
88	RNG2A	PY	-.011	-.011	0	.168
89	RNG20A	PY	-.011	-.011	0	.168
90	RNG23A	PY	-.011	-.011	0	.168

Member Distributed Loads (BLC 7 : wind load on rafters case B)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	R1	y	.003	.007	0	0
2	R42	y	.003	.009	0	0
3	R2	y	.003	.009	0	0
4	R41	y	.003	.01	0	0
5	R3	y	.003	.01	0	0
6	R40	y	.003	.011	0	0
7	R4	y	.003	.011	0	0
8	R39	y	.003	.013	0	0
9	R5	y	.003	.013	0	0
10	R38	y	.003	.014	0	0
11	R6	y	.003	.014	0	0
12	R37	y	.003	.015	0	0
13	R7	y	.003	.015	0	0
14	R36	y	.003	.015	0	0
15	R8	y	.003	.015	0	0
16	R35	y	.003	.016	0	0
17	R9	y	.003	.016	0	0
18	R34	y	.003	.016	0	0
19	R10	y	.003	.016	0	0
20	R33	y	.003	.017	0	0
21	R11	y	.003	.017	0	0
22	R22	y	.003	.01	0	4.944
23	R21	y	.003	.01	0	4.944
24	R23	y	.003	.01	0	4.944
25	R20	y	.003	.01	0	4.944
26	R24	y	.003	.01	0	4.944

Member Distributed Loads (BLC 7 : wind load on rafters case B) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F...	Start Location[ft,%]	End Location[ft,%]
27	R19	y	.003	.01	0	4.944
28	R25	y	.003	.01	0	4.944
29	R18	y	.003	.01	0	4.944
30	R26	y	.003	.01	0	4.944
31	R17	y	.003	.011	0	4.944
32	R27	y	.003	.011	0	4.944
33	R16	y	.003	.011	0	4.944
34	R28	y	.003	.011	0	4.944
35	R15	y	.003	.011	0	4.944
36	R29	y	.003	.011	0	4.944
37	R14	y	.003	.011	0	4.944
38	R30	y	.003	.011	0	4.944
39	R13	y	.003	.011	0	4.944
40	R31	y	.003	.011	0	4.944
41	R12	y	.003	.011	0	4.944
42	R32	y	.003	.011	0	4.944
43	R22	y	.008	.012	4.944	%100
44	R21	y	.008	.013	4.944	%100
45	R23	y	.008	.013	4.944	%100
46	R20	y	.009	.013	4.944	%100
47	R24	y	.009	.013	4.944	%100
48	R19	y	.009	.014	4.944	%100
49	R25	y	.009	.014	4.944	%100
50	R18	y	.009	.015	4.944	%100
51	R26	y	.009	.015	4.944	%100
52	R17	y	.01	.015	4.944	%100
53	R27	y	.01	.015	4.944	%100
54	R16	y	.01	.016	4.944	%100
55	R28	y	.01	.016	4.944	%100
56	R15	y	.01	.016	4.944	%100
57	R29	y	.01	.016	4.944	%100
58	R14	y	.01	.016	4.944	%100
59	R30	y	.01	.016	4.944	%100
60	R13	y	.01	.017	4.944	%100
61	R31	y	.01	.017	4.944	%100
62	R12	y	.01	.017	4.944	%100
63	R32	y	.01	.017	4.944	%100

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	wind on studs	None						42		
2	wind on rafters case A	None						42		
3	wind torsion	None					42			
4	wind on ring	None						48		
5	10 psf snow	None						90		
6	DL	None		-1						
7	wind load on rafters c...	None						63		

Load Combinations

	Description	So...	PDelta	SRSS	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	D+S	Yes			6	1	5	9																
2	D+.75(W...	Yes			6	1	1	1.8...	2	1.8...	4	1.8...	5	6.75										
3	D+.75(W...	Yes			6	1	1	1.41	2	1.41	3	1.41	4	1.41	5	6.75								
4	D+.75(W...	Yes			6	1	1	1.8...	7	1.8...	4	1.8...	5	6.75										
5	D+.75(W...	Yes			6	1	1	1.41	7	1.41	3	1.41	4	1.41	5	6.75								
6	D+.75(W...	Yes			6	1	1	1.8...	4	1.8...	5	6.75												
7	D+.75(W...	Yes			6	1	1	1.41	3	1.41	4	1.41	5	6.75										
8	.6D+W c...	Yes			6	.6	1	2.5	2	2.5	4	2.5												
9	.6D+W c...	Yes			6	.6	1	1.8...	2	1.8...	3	1.8...	4	1.8...										
10	.6D+W c...	Yes			6	.6	1	2.5	7	2.5	4	2.5												
11	.6D+W c...	Yes			6	.6	1	1.8...	7	1.8...	3	1.8...	4	1.8...										
12	.6D+W n...	Yes			6	.6	1	2.5	4	2.5														
13	.6D + W ...	Yes			6	.6	1	1.8...	2	1.8...	3	1.8...												
14					6	1																		

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N127	max	0	10	.629	1	-.001	1	0	13	0	13	0	13
2		min	-.009	11	-.071	10	-.026	12	0	1	0	1	0	1
3	N128	max	.006	12	.628	1	-.001	1	0	13	0	13	0	13
4		min	-.007	11	-.09	10	-.027	12	0	1	0	1	0	1
5	N129	max	.011	12	.627	1	-.001	1	0	13	0	13	0	13
6		min	-.004	11	-.101	10	-.029	12	0	1	0	1	0	1
7	N130	max	.016	12	.626	1	-.001	1	0	13	0	13	0	13
8		min	-.001	11	-.111	10	-.031	12	0	1	0	1	0	1
9	N131	max	.019	12	.625	1	0	1	0	13	0	13	0	13
10		min	0	1	-.131	10	-.034	12	0	1	0	1	0	1
11	N132	max	.021	12	.625	1	0	1	0	13	0	13	0	13
12		min	0	1	-.142	10	-.038	12	0	1	0	1	0	1
13	N133	max	.02	12	.625	1	0	1	0	13	0	13	0	13
14		min	0	1	-.152	10	-.041	12	0	1	0	1	0	1
15	N134	max	.019	12	.626	1	0	1	0	13	0	13	0	13
16		min	-.001	1	-.154	10	-.044	12	0	1	0	1	0	1
17	N135	max	.015	12	.627	1	0	1	0	13	0	13	0	13
18		min	-.001	1	-.165	10	-.046	12	0	1	0	1	0	1
19	N136	max	.01	12	.628	1	0	1	0	13	0	13	0	13
20		min	-.001	1	-.169	10	-.047	12	0	1	0	1	0	1
21	N137	max	.003	12	.629	1	0	1	0	13	0	13	0	13
22		min	-.001	1	-.181	10	-.049	[illegible]	[illegible]	[illegible]	0	1	0	1
23	N138	max	-.001	1	.629	1	0	1	0	13	0	13	0	13
24		min	-.004	12	-.192	10	-.05	12	0	1	0	1	0	1
25	N139	max	-.001	1	.628	1	0	1	0	13	0	13	0	13
26		min	-.011	12	-.194	10	-.051	12	0	1	0	1	0	1
27	N140	max	-.001	1	.627	1	0	1	0	13	0	13	0	13
28		min	-.016	12	-.19	10	-.052	12	0	1	0	1	0	1
29	N141	max	-.001	1	.626	1	0	1	0	13	0	13	0	13
30		min	-.02	12	-.19	10	-.051	12	0	1	0	1	0	1
31	N142	max	0	1	.625	1	0	1	0	13	0	13	0	13
32		min	-.022	12	-.191	10	-.05	12	0	1	0	1	0	1

uplift reaction

Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
33	N143	max	0	1	.625	1	0	1	0	13	0	13	0	13
34		min	-.022	12	-.183	10	-.049	12	0	1	0	1	0	1
35	N144	max	0	1	.625	1	0	1	0	13	0	13	0	13
36		min	-.02	12	-.175	10	-.046	12	0	1	0	1	0	1
37	N145	max	0	1	.626	1	.001	1	0	13	0	13	0	13
38		min	-.017	12	-.167	10	-.043	12	0	1	0	1	0	1
39	N146	max	.003	11	.627	1	.001	1	0	13	0	13	0	13
40		min	-.012	12	-.16	10	-.042	12	0	1	0	1	0	1
41	N147	max	.006	11	.628	1	.001	1	0	13	0	13	0	13
42		min	-.007	12	-.154	10	-.038	8	0	1	0	1	0	1
43	N148	max	.009	11	.629	1	.001	1	0	13	0	13	0	13
44		min	0	10	-.147	10	-.042	8	0	1	0	1	0	1
45	N149	max	.013	13	.628	1	.001	1	0	13	0	13	0	13
46		min	0	1	-.154	10	-.038	8	0	1	0	1	0	1
47	N150	max	.016	13	.627	1	.001	1	0	13	0	13	0	13
48		min	0	1	-.16	10	-.042	12	0	1	0	1	0	1
49	N151	max	.019	13	.626	1	.001	1	0	13	0	13	0	13
50		min	0	1	-.167	10	-.043	12	0	1	0	1	0	1
51	N152	max	.02	12	.625	1	0	1	0	13	0	13	0	13
52		min	0	1	-.175	10	-.046	12	0	1	0	1	0	1
53	N153	max	.022	12	.625	1	0	1	0	13	0	13	0	13
54		min	0	1	-.183	10	-.048	12	0	1	0	1	0	1
55	N154	max	.021	12	.625	1	0	1	0	13	0	13	0	13
56		min	0	1	-.191	10	-.05	12	0	1	0	1	0	1
57	N155	max	.02	12	.626	1	[illegible]	[illegible]	[illegible]	13	0	13	0	13
58		min	.001	1	-.19	10	[illegible]	[illegible]	[illegible]	1	0	1	0	1
59	N156	max	.016	12	.627	1	0	1	0	13	0	13	0	13
60		min	.001	1	-.19	10	-.051	12	0	1	0	1	0	1
61	N157	max	.011	12	.628	1	0	1	0	13	0	13	0	13
62		min	.001	1	-.194	10	-.051	12	0	1	0	1	0	1
63	N158	max	.004	12	.629	1	0	1	0	13	0	13	0	13
64		min	.001	1	-.192	10	-.049	12	0	1	0	1	0	1
65	N159	max	.001	1	.629	1	0	1	0	13	0	13	0	13
66		min	-.003	12	-.182	10	-.048	12	0	1	0	1	0	1
67	N160	max	.001	1	.628	1	0	1	0	13	0	13	0	13
68		min	-.01	12	-.169	10	-.047	12	0	1	0	1	0	1
69	N161	max	.001	1	.627	1	0	1	0	13	0	13	0	13
70		min	-.015	12	-.165	10	-.046	12	0	1	0	1	0	1
71	N162	max	.001	1	.626	1	0	1	0	13	0	13	0	13
72		min	-.019	12	-.154	10	-.044	12	0	1	0	1	0	1
73	N163	max	0	1	.625	1	0	1	0	13	0	13	0	13
74		min	-.02	12	-.152	10	-.041	12	0	1	0	1	0	1
75	N164	max	0	1	.625	1	0	1	0	13	0	13	0	13
76		min	-.021	12	-.142	10	-.038	12	0	1	0	1	0	1
77	N165	max	0	1	.625	1	0	1	0	13	0	13	0	13
78		min	-.019	12	-.131	10	-.034	12	0	1	0	1	0	1
79	N166	max	0	1	.626	1	-.001	1	0	13	0	13	0	13
80		min	-.017	9	-.111	10	-.031	12	0	1	0	1	0	1
81	N167	max	0	1	.627	1	-.001	1	0	13	0	13	0	13
82		min	-.015	9	-.101	10	-.029	12	0	1	0	1	0	1
83	N168	max	0	1	.628	1	-.001	1	0	13	0	13	0	13
84		min	-.012	9	-.09	10	-.027	12	0	1	0	1	0	1

uplift reaction

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
408			min	-1.451	4	-1.043	1	-.119	8	-.013	10	-.012	8	-.084	8
409		5	max	-.083	12	.122	8	1.435	1	.071	1	.518	1	.268	1
410			min	-1.451	4	-1.043	1	-.12	8	-.013	10	-.017	8	-.09	8
411	RNG42	1	max	-.03	12	.069	8	.852	1	-.001	12	.294	1	.409	1
412			min	-.5	4	-.689	1	-.065	8	-.042	1	-.026	8	-.063	8
413		2	max	-.03	12	.069	8	.861	1	-.001	12	.366	1	.467	1
414			min	-.5	4	-.689	1	-.067	8	-.042	1	-.031	8	-.069	8
415		3	max	-.03	12	.069	8	.869	1	-.001	12	.438	1	.525	1
416			min	-.5	4	-.689	1	-.069	8	-.042	1	-.037	8	-.074	8
417		4	max	-.03	12	.069	8	.878	1	-.001	12	.512	1	.583	1
418			min	-.5	4	-.689	1	-.071	8	-.042	1	-.043	8	-.08	8
419		5	max	-.03	12	.069	8	.887	1	-.001	12	.586	1	.641	1
420			min	-.5	4	-.689	1	-.073	8	-.042	1	-.049	8	-.086	8
421	C1	1	max	.006	10	0	7	0	13	0	13	0	13	0	13
422			min	-.385	6	0	8	0	1	0	12	0	1	0	1
423		2	max	.006	10	0	7	0	13	0	13	0	13	0	13
424			min	-.385	6	0	8	0	1	0	12	0	1	0	1
425		3	max	.006	10	0	13	0	13	0	13	0	13	0	13
426			min	-.385	6	0	1	0	1	0	12	0	1	0	1
427		4	max	.006	10	0	13	0	13	0	13	0	13	0	13
428			min	-.385	6	0	1	0	1	0	12	0	1	0	1
429		5	max	.006	10	0	13	0	13	0	13	0	13	0	13
430			min	-.385	6	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	1	0	1
431	C2	1	max	.006	10	0	7	0	13	0	5	0	13	0	13
432			min	-.383	6	0	8	0	1	0	8	0	1	0	1
433		2	max	.006	10	0	7	0	13	0	5	0	13	0	13
434			min	-.383	6	0	8	0	1	0	8	0	1	0	1
435		3	max	.006	10	0	13	0	13	0	5	0	13	0	13
436			min	-.383	6	0	1	0	1	0	8	0	1	0	1
437		4	max	.006	10	0	13	0	13	0	5	0	13	0	13
438			min	-.383	6	0	1	0	1	0	8	0	1	0	1
439		5	max	.006	10	0	13	0	13	0	5	0	13	0	13
440			min	-.383	6	0	1	0	1	0	8	0	1	0	1
441	C3	1	max	.006	10	0	7	0	13	0	1	0	13	0	13
442			min	-.377	6	0	8	0	1	0	8	0	1	0	1
443		2	max	.006	10	0	7	0	13	0	1	0	13	0	13
444			min	-.377	6	0	8	0	1	0	8	0	1	0	1
445		3	max	.006	10	0	13	0	13	0	1	0	13	0	13
446			min	-.377	6	0	1	0	1	0	8	0	1	0	1
447		4	max	.006	10	0	13	0	13	0	1	0	13	0	13
448			min	-.377	6	0	1	0	1	0	8	0	1	0	1
449		5	max	.006	10	0	13	0	13	0	1	0	13	0	13
450			min	-.377	6	0	1	0	1	0	8	0	1	0	1
451	C4	1	max	.007	10	0	7	0	13	0	1	0	13	0	13
452			min	-.37	6	0	8	0	1	0	12	0	1	0	1
453		2	max	.007	10	0	7	0	13	0	1	0	13	0	13
454			min	-.37	6	0	8	0	1	0	12	0	1	0	1
455		3	max	.007	10	0	13	0	13	0	1	0	13	0	13
456			min	-.37	6	0	1	0	1	0	12	0	1	0	1
457		4	max	.007	10	0	13	0	13	0	1	0	13	0	13
458			min	-.37	6	0	1	0	1	0	12	0	1	0	1
459		5	max	.007	10	0	13	0	13	0	1	0	13	0	13

tension load from cable

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
1240			min	-.111	10	-.021	12	0	1	0	1	0	1	0	1
1241	ST41	1	max	.616	1	.024	12	.011	7	.002	1	0	10	0	10
1242			min	-.122	10	0	1	0	10	0	10	-.003	1	0	1
1243		2	max	.617	1	.011	12	.002	6	0	1	.006	9	-.001	1
1244			min	-.114	10	0	1	0	9	0	10	0	1	-.029	12
1245		3	max	.599	1	0	10	0	1	0	6	0	1	-.002	1
1246			min	-.098	10	0	1	-.007	9	0	10	0	10	-.039	12
1247		4	max	.602	1	0	1	0	1	0	6	0	1	-.001	1
1248			min	-.097	10	-.011	12	-.004	9	0	10	-.01	9	-.029	12
1249		5	max	.627	1	-.001	1	.021	9	0	13	0	13	0	13
1250			min	-.101	10	-.024	12	0	1	0	1	0	1	0	1
1251	ST42	1	max	.616	1	.026	10	.01	13	0	1	0	10	0	10
1252			min	-.113	10	0	1	0	10	0	10	-.002	1	0	1
1253		2	max	.617	1	.012	10	.001	6	0	1	.005	9	-.001	1
1254			min	-.105	10	0	1	0	9	0	10	0	1	-.031	12
1255		3	max	.599	1	0	10	0	1	0	6	0	7	-.002	1
1256			min	-.09	10	0	1	-.005	9	0	10	0	10	-.042	12
1257		4	max	.601	1	0	1	0	1	0	6	0	1	-.002	1
1258			min	-.088	10	-.012	8	-.003	9	0	10	-.007	9	-.032	12
1259		5	max	.628	1	-.001	1	.015	9	0	13	0	13	0	13
1260			min	-.09	10	-.026	12	0	1	0	1	0	1	0	1
1261	R1	1	max	-.017	12	.329	1	0	13	0	13	0	13	0	13
1262			min	-.14	4	-.048	8	0	12	0	10	0	1	0	1
1263		2	max	-.015	12	.222	1	0	13	0	13	0	13	.106	8
1264			min	-.096	4	-.027	[illegible]	[illegible]	[illegible]	[illegible]	10	0	12	-.782	1
1265		3	max	.032	1	.046	1	0	12	0	13	0	12	.148	8
1266			min	-.229	10	-.003	8	0	13	0	10	0	13	-1.172	1
1267		4	max	.166	1	.025	8	0	13	0	13	0	12	.126	8
1268			min	-.074	10	-.199	1	0	12	0	10	0	13	-.975	1
1269		5	max	.338	1	.067	8	0	13	0	13	0	13	0	13
1270			min	-.073	10	-.514	1	0	12	0	10	0	1	0	1
1271	R2	1	max	-.016	12	.329	1	0	8	.001	11	0	13	0	13
1272			min	-.147	4	-.057	8	0	11	-.002	1	0	1	0	1
1273		2	max	-.014	12	.222	1	0	8	.001	11	0	8	.129	8
1274			min	-.103	4	-.034	8	0	11	-.002	1	-.001	11	-.783	1
1275		3	max	.094	10	.046	1	0	11	.001	11	0	10	.193	8
1276			min	-.03	4	-.006	8	0	1	-.002	1	0	1	-1.172	1
1277		4	max	.166	1	.031	8	0	7	.001	11	.001	11	.16	8
1278			min	-.084	10	-.199	1	0	11	-.002	1	0	1	-.975	1
1279		5	max	.338	1	.086	8	0	7	.001	11	0	13	0	13
1280			min	-.083	10	-.514	1	0	11	-.002	1	0	1	0	1
1281	R3	1	max	-.015	12	.329	1	0	11	.001	11	0	13	0	13
1282			min	-.15	4	-.062	8	0	1	-.003	1	0	1	0	1
1283		2	max	-.013	12	.222	1	0	11	.001	11	.001	11	.142	8
1284			min	-.105	4	-.038	8	0	1	-.003	1	0	1	-.783	1
1285		3	max	.032	1	.046	1	0	7	.001	11	0	10	.206	8
1286			min	-.242	10	-.007	8	-.001	11	-.003	1	0	12	-1.172	1
1287		4	max	.166	1	.034	8	0	13	.001	11	0	8	.177	8
1288			min	-.087	10	-.199	1	0	8	-.003	1	0	13	-.975	1
1289		5	max	.338	1	.095	8	0	13	.001	11	0	13	0	13
1290			min	-.085	10	-.514	1	0	8	-.003	1	0	1	0	1
1291	R4	1	max	-.013	12	.329	1	0	8	.002	11	0	13	0	13

rafter reactions

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
6128			min	0	1	0	12	-.008	12	0	1	-.003	12	0	1
6129		5	max	0	9	0	1	0	1	0	12	0	1	0	12
6130			min	0	1	0	12	-.008	12	0	1	-.005	12	0	1
6131	L614	1	max	.013	1	0	1	0	1	0	10	.001	8	0	1
6132			min	-.051	12	0	12	0	10	0	1	0	1	0	8
6133		2	max	.013	1	0	1	0	1	0	10	.001	12	0	1
6134			min	-.051	12	0	12	0	10	0	1	0	1	0	8
6135		3	max	.013	1	0	1	0	1	0	10	.001	12	0	7
6136			min	-.051	12	0	12	0	10	0	1	0	1	0	10
6137		4	max	.013	1	0	1	0	1	0	10	0	12	0	12
6138			min	-.051	12	0	12	0	10	0	1	0	1	0	1
6139		5	max	.013	1	0	[illegible]	[illegible]	[illegible]	0	10	0	7	0	12
6140			min	-.051	12	0	12	0	10	0	1	0	1	0	1
6141	L615	1	max	.012	1	0	4	0	12	0	12	0	1	0	10
6142			min	-.047	12	0	13	0	1	0	1	0	8	0	1
6143		2	max	.012	1	0	4	0	12	0	12	0	1	0	10
6144			min	-.047	12	0	13	0	1	0	1	0	8	0	1
6145		3	max	.012	1	0	4	0	12	0	12	0	1	0	12
6146			min	-.047	12	0	13	0	1	0	1	0	8	0	1
6147		4	max	.012	1	0	4	0	12	0	12	0	1	0	12
6148			min	-.047	12	0	13	0	1	0	1	0	10	0	1
6149		5	max	.012	1	0	4	0	12	0	12	0	7	0	12
6150			min	-.047	12	0	13	0	1	0	1	0	10	0	1
6151	L616	1	max	.012	1	0	12	0	1	0	12	0	12	0	12
6152			min	-.046	12	0	1	-.002	12	0	1	0	1	0	1
6153		2	max	.012	1	0	12	0	1	0	12	0	12	0	12
6154			min	-.046	12	0	1	-.002	12	0	1	0	1	0	1
6155		3	max	.012	1	0	12	0	1	0	12	0	10	0	1
6156			min	-.046	12	0	1	-.002	12	0	1	0	1	0	10
6157		4	max	.012	1	0	12	0	1	0	12	0	4	0	1
6158			min	-.046	12	0	1	-.002	12	0	1	0	7	0	10
6159		5	max	.012	1	0	12	0	1	0	12	0	1	0	1
6160			min	-.046	12	0	1	-.002	12	0	1	0	13	0	10
6161	L617	1	max	0	1	0	7	0	1	0	4	0	13	0	7
6162			min	-.009	12	0	4	0	13	0	13	0	4	0	8
6163		2	max	0	1	0	7	0	1	0	4	0	13	0	1
6164			min	-.009	12	0	4	0	13	0	13	0	4	0	12
6165		3	max	0	1	0	7	0	1	0	4	0	1	0	1
6166			min	-.009	12	0	4	0	13	0	13	0	12	0	12
6167		4	max	0	1	0	7	0	1	0	4	0	1	0	1
6168			min	-.009	12	0	4	0	13	0	13	0	13	0	9
6169		5	max	0	1	0	7	0	1	0	4	0	1	0	1
6170			min	-.009	12	0	4	0	13	0	13	0	13	0	9
6171	L618	1	max	0	1	0	1	.002	7	0	6	0	10	0	1
6172			min	-.004	12	0	12	0	1	0	10	0	7	0	12
6173		2	max	0	1	0	1	.002	7	0	6	0	10	0	1
6174			min	-.004	12	0	12	0	1	0	10	0	1	0	12
6175		3	max	0	1	0	1	.002	7	0	6	0	12	0	12
6176			min	-.004	12	0	12	0	1	0	10	0	1	0	1
6177		4	max	0	1	0	1	.002	7	0	6	.001	12	0	12
6178			min	-.004	12	0	12	0	1	0	10	0	1	0	1
6179		5	max	0	1	0	1	.002	7	0	6	.002	7	0	12

lattice tension

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
10600			min	.001	1	0	1	0	1	0	1	0	1	0	12
10601	L1061	1	max	.023	12	0	1	0	1	0	12	0	7	0	1
10602			min	.001	1	0	11	0	7	0	1	0	1	0	11
10603		2	max	.023	12	0	1	0	1	0	12	0	7	0	12
10604			min	.001	1	0	11	0	7	0	1	0	10	0	1
10605		3	max	.023	12	0	1	0	1	0	12	0	1	0	12
10606			min	.001	1	0	11	0	7	0	1	0	13	0	1
10607		4	max	.023	12	0	1	0	1	0	12	0	1	0	12
10608			min	.001	1	0	11	0	7	0	1	0	7	0	1
10609		5	max	.023	12	0	1	0	1	0	12	0	1	0	12
10610			min	.001	1	0	11	0	7	0	1	0	7	0	1
10611	L1062	1	max	0	13	0	1	0	1	0	10	.002	7	0	1
10612			min	0	1	0	7	-.003	7	0	6	0	1	0	13
10613		2	max	0	13	0	1	0	1	0	10	.001	13	0	1
10614			min	0	1	0	7	-.003	7	0	6	0	1	0	13
10615		3	max	0	13	0	1	0	1	0	10	0	13	0	1
10616			min	0	1	0	7	-.003	7	0	6	0	1	0	13
10617		4	max	0	13	0	1	0	1	0	10	0	10	0	7
10618			min	0	1	0	7	-.003	7	0	6	0	7	0	10
10619		5	max	0	13	0	1	0	1	0	10	0	10	0	7
10620			min	0	1	0	7	-.003	7	0	6	0	7	0	10
10621	L1063	1	max	0	10	0	12	0	1	0	12	.003	12	0	12
10622			min	0	7	0	1	-.008	12	0	1	0	1	0	1
10623		2	max	0	10	0	12	0	1	0	12	0	12	0	12
10624			min	0	7	0	1	-.008	12	0	1	0	1	0	1
10625		3	max	0	10	0	12	0	1	0	12	0	1	0	1
10626			min	0	7	0	1	-.008	12	0	1	-.001	12	0	6
10627		4	max	0	10	0	lattice compression			0	12	0	1	0	1
10628			min	0	7	0	1	-.008	12	0	1	-.003	12	0	12
10629		5	max	0	10	0	12	0	1	0	12	0	1	0	1
10630			min	0	7	0	1	-.008	12	0	1	-.005	12	0	12
10631	L1064	1	max	.063	12	.001	6	0	1	0	10	.002	12	0	6
10632			min	.013	1	0	1	-.001	4	0	1	0	1	0	1
10633		2	max	.063	12	.001	6	0	1	0	10	.001	12	0	6
10634			min	.013	1	0	1	-.001	4	0	1	0	1	0	1
10635		3	max	.063	12	.001	6	0	1	0	10	.001	12	0	1
10636			min	.013	1	0	1	-.001	4	0	1	0	1	0	9
10637		4	max	.063	12	.001	6	0	1	0	10	0	12	0	1
10638			min	.013	1	0	1	-.001	4	0	1	0	1	0	12
10639		5	max	.063	12	.001	6	0	1	0	10	0	13	0	1
10640			min	.013	1	0	1	-.001	4	0	1	0	1	0	12
10641	L1065	1	max	.058	12	0	1	0	12	0	8	0	1	0	1
10642			min	.012	1	0	10	0	1	0	1	0	12	0	10
10643		2	max	.058	12	0	1	0	12	0	8	0	1	0	1
10644			min	.012	1	0	10	0	1	0	1	0	12	0	4
10645		3	max	.058	12	0	1	0	12	0	8	0	1	0	11
10646			min	.012	1	0	10	0	1	0	1	0	12	0	6
10647		4	max	.058	12	0	1	0	12	0	8	0	11	0	10
10648			min	.012	1	0	10	0	1	0	1	0	6	0	6
10649		5	max	.058	12	0	1	0	12	0	8	0	13	0	10
10650			min	.012	1	0	10	0	1	0	1	0	1	0	6
10651	L1066	1	max	.057	12	0	1	0	10	0	12	0	7	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
13148			min	-.836	4	-.951	1	-.591	1	0	1	-.629	1	.009	12
13149		5	max	-.05	12	.073	8	.062	8	0	12	.074	8	.393	1
13150			min	-.836	4	-.951	1	-.591	1	0	1	-.72	1	.009	12
13151	BR1316	1	max	-.05	12	.951	1	.591	1	0	1	.074	8	.393	1
13152			min	-.836	4	-.073	8	-.062	8	0	12	-.72	1	.009	12
13153		2	max	-.05	12	.951	1	.591	1	0	1	.066	8	.371	1
13154			min	-.836	4	-.073	8	-.062	8	0	12	-.629	1	.009	12
13155		3	max	-.05	12	.95	1	.591	1	0	1	.058	8	.35	1
13156			min	-.836	4	-.074	8	-.062	8	0	12	-.537	1	.008	12
13157		4	max	-.05	12	.95	1	.591	1	0	1	.05	8	.328	1
13158			min	-.836	4	-.074	8	-.062	8	0	12	-.446	1	.008	12
13159		5	max	-.05	12	.949	1	.591	1	0	1	.042	8	.307	1
13160			min	-.836	4	-.074	8	-.062	8	0	12	-.354	1	.008	12
13161	BR1317	1	max	-.052	12	.747	1	.521	1	0	10	.045	8	.241	1
13162			min	-.908	4	-.062	8	-.062	8	-.002	1	-.386	1	.007	12
13163		2	max	-.052	12	.746	1	.521	1	0	10	.041	8	.234	1
13164			min	-.908	4	-.062	8	-.062	8	-.002	1	-.349	1	.007	12
13165		3	max	-.052	12	.746	1	.521	1	0	10	.038	8	.228	1
13166			min	-.908	4	-.062	8	-.062	8	-.002	1	-.311	1	.007	12
13167		4	max	-.052	12	[illegible]	[illegible]	[illegible]	[illegible]	0	10	.034	8	.221	1
13168			min	-.908	4	[illegible]	[illegible]	[illegible]	[illegible]	-.002	1	-.273	1	.007	12
13169		5	max	-.052	12	[illegible]	[illegible]	[illegible]	[illegible]	0	10	.03	8	.214	1
13170			min	-.908	4	-.063	8	-.062	8	-.002	1	-.236	1	.007	12
13171	BR1318	1	max	-.048	12	.115	8	.052	10	0	1	.027	10	.23	1
13172			min	-.853	4	-.848	1	-.54	1	0	8	-.22	1	-.072	8
13173		2	max	-.048	12	.115	8	.052	10	0	1	.037	10	.249	1
13174			min	-.853	4	-.849	1	-.54	1	0	8	-.302	1	-.076	8
13175		3	max	-.048	12	.114	8	.052	10	0	1	.047	10	.267	1
13176			min	-.853	4	-.849	1	-.54	1	0	8	-.385	1	-.08	8
13177		4	max	-.048	12	.114	8	.052	10	0	1	.057	10	.285	1
13178			min	-.853	4	-.85	1	-.54	1	0	8	-.467	1	-.083	8
13179		5	max	-.048	12	.114	8	.052	10	0	1	.066	10	.304	1
13180			min	-.853	4	-.85	1	-.54	1	0	8	-.55	1	-.087	8
13181	BR1319	1	max	-.045	12	.139	8	.077	8	0	10	.062	10	.368	1
13182			min	-.774	4	-1.035	1	-.693	1	-.003	1	-.514	1	-.095	8
13183		2	max	-.045	12	.139	8	.077	8	0	10	.068	10	.378	1
13184			min	-.774	4	-1.035	1	-.693	1	-.003	1	-.565	1	-.097	8
13185		3	max	-.045	12	.138	8	.077	8	0	10	.074	10	.388	1
13186			min	-.774	4	-1.035	1	-.693	1	-.003	1	-.616	1	-.099	8
13187		4	max	-.045	12	.138	8	.077	8	0	10	.081	10	.399	1
13188			min	-.774	4	-1.036	1	-.693	1	-.003	1	-.668	1	-.101	8
13189		5	max	-.045	12	.138	8	.077	8	0	10	.087	10	.409	1
13190			min	-.774	4	-1.036	1	-.693	1	-.003	1	-.719	1	-.103	8
13191	BR1320	1	max	-.044	12	1.036	1	.693	1	.003	1	.081	10	.409	1
13192			min	-.758	4	-.145	10	-.117	10	0	8	-.719	1	-.116	10
13193		2	max	-.044	12	1.036	1	.693	1	.003	1	.073	10	.399	1
13194			min	-.758	4	-.145	10	-.117	10	0	8	-.668	1	-.115	10
13195		3	max	-.044	12	1.035	1	.693	1	.003	1	.066	10	.388	1
13196			min	-.758	4	-.145	10	-.117	10	0	8	-.616	1	-.114	10
13197		4	max	-.044	12	1.035	1	.693	1	.003	1	.058	10	.378	1
13198			min	-.758	4	-.146	10	-.117	10	0	8	-.565	1	-.113	10
13199		5	max	-.044	12	1.035	1	.693	1	.003	1	.05	10	.368	1

tension load from blocking

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	LC	y Shear[k]	LC	z Shear[k]	LC	Torque[k-...	LC	y-y Mome...	LC	z-z Mome...	LC
13252			min	-.833	4	-.848	1	-.54	1	0	10	-.22	1	-.09	10
13253		2	max	-.044	12	.126	10	.072	10	0	1	.021	8	.249	1
13254			min	-.833	4	-.849	1	-.54	1	0	10	-.302	1	-.093	10
13255		3	max	-.044	12	.126	10	.072	10	0	1	.031	10	.267	1
13256			min	-.833	4	-.849	1	-.54	1	0	10	-.385	1	-.096	10
13257		4	max	-.044	12	.126	10	.072	10	0	1	.043	10	.285	1
13258			min	-.833	4	-.85	1	-.54	1	0	10	-.467	1	-.1	10
13259		5	max	-.044	12	.125	10	.072	10	0	1	.055	10	.304	1
13260			min	-.833	4	-.85	1	-.54	1	0	10	-.55	1	-.103	10
13261	BR1327	1	max	-.044	12	.146	10	.117	10	0	8	.05	10	.368	1
13262			min	-.758	4	-1.035	1	-.693	1	-.003	1	-.514	1	-.113	10
13263		2	max	-.044	12	.146	10	.117	10	0	8	.058	10	.378	1
13264			min	-.758	4	-1.035	1	-.693	1	-.003	1	-.565	1	-.114	10
13265		3	max	-.044	12	.145	10	.117	10	0	8	.066	10	.388	1
13266			min	-.758	4	-1.035	1	-.693	1	-.003	1	-.616	1	-.114	10
13267		4	max	-.044	12	.145	10	.117	10	0	8	.073	10	.399	1
13268			min	-.758	4	-1.036	1	-.693	1	-.003	1	-.668	1	-.115	10
13269		5	max	-.044	12	.145	10	.117	10	0	8	.081	10	.409	1
13270			min	-.758	4	-1.036	1	-.693	1	-.003	1	-.719	1	-.116	10
13271	BR1328	1	max	-.045	12	1.036	1	.693	1	.003	1	.087	10	.409	1
13272			min	-.774	4	-.138	8	-.077	8	0	10	-.719	1	-.103	8
13273		2	max	-.045	12	1.036	1	.693	1	.003	1	.081	10	.399	1
13274			min	-.774	4	-.138	8	-.077	8	0	10	-.668	1	-.101	8
13275		3	max	-.045	12	1.035	1	.693	1	.003	1	.074	10	.388	1
13276			min	-.774	4	-.139	8	-.077	8	0	10	-.616	1	-.099	8
13277		4	max	-.045	12	1.035	1	.693	1	.003	1	.068	10	.378	1
13278			min	-.774	4	-.139	8	-.077	8	0	10	-.565	1	-.097	8
13279		5	max	-.045	12	1.035	1	.693	1	.003	1	.062	10	.368	1
13280			min	-.774	4	-.139	8	-.077	8	0	10	-.514	1	-.095	8
13281	BR1329	1	max	-.048	12	.85	1	.54	1	0	8	.066	10	.304	1
13282			min	-.853	4	-.114	8	-.052	10	0	1	-.55	1	-.087	8
13283		2	max	-.048	12	.85	1	.54	1	0	8	.057	10	.285	1
13284			min	-.853	4	-.114	8	-.052	10	0	1	-.467	1	-.083	8
13285		3	max	-.048	12	.849	1	.54	1	0	8	.047	10	.267	1
13286			min	-.853	4	-.114	8	-.052	10	0	1	-.385	1	-.08	8
13287		4	max	-.048	12	.849	1	.54	1	0	8	.037	10	.249	1
13288			min	-.853	4	-.115	8	-.052	10	0	1	-.302	1	-.076	8
13289		5	max	-.048	12	.848	1	.54	1	0	8	.027	10	.23	1
13290			min	-.853	4	-.115	8	-.052	10	0	1	-.22	1	-.072	8

Envelope Wood Code Checks

	Member	Shape	Code ...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	Fc' [ksi]	Ft' [ksi]	Fb1' [...	Fb2' [...	Fv' [ksi]	RB	CL	CP	Eqn
1	RNG1	4X5	.882	0	1	.606	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
2	RNG2	4X5	.489	0	1	.652	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.207	.861	1	1	3.9-1
3	RNG3	4X5	.351	0	1	1.019	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.207	1.217	1	.999	3.9-1
4	RNG4	4X5	.555	.336	1	.778	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
5	RNG5	4X5	.686	.336	1	.370	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
6	RNG6	4X5	.688	0	1	.126	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
7	RNG7	4X5	.642	0	1	.581	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
8	RNG8	4X5	.427	0	1	.922	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1

ring bending and axial check

Envelope Wood Code Checks (Continued)

	Member	Shape	Code ...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	Fc' [ksi]	Ft' [ksi]	Fb1' [...	Fb2' [...	Fv' [ksi]	RB	CL	CP	Eqn
9	RNG9	4X5	.631	.337	1	1.048	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
10	RNG10	4X5	.675	.336	1	.469	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
11	RNG11	4X5	.893	.168	1	1.069	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
12	RNG12	4X5	.675	0	1	.469	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
13	RNG13	4X5	.631	0	1	1.048	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
14	RNG14	4X5	.427	.336	1	.922	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
15	RNG15	4X5	.642	.337	1	.581	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
16	RNG16	4X5	.688	.336	1	.126	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
17	RNG17	4X5	.686	0	1	.370	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
18	RNG18	4X5	.555	0	1	.778	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
19	RNG19	4X5	.351	.336	1	1.019	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
20	RNG20	4X5	.647	.168	1	.995	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
21	RNG21	4X5	.882	.336	1	.606	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
22	RNG22	4X5	.882	0	1	.606	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
23	RNG23	4X5	.489	0	1	.652	0	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
24	RNG24	4X5	.351	0	1	1.019	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
25	RNG25	4X5	.555	.336	1	.778	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
26	RNG26	4X5	.686	.336	1	.370	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
27	RNG27	4X5	.688	0	1	.126	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
28	RNG28	4X5	.642	0	1	.581	.337	z	1	1.896	[illegible]	[illegible]	[illegible]	[illegible]	1.218	1	.999	3.9-1
29	RNG29	4X5	.427	0	1	.922	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
30	RNG30	4X5	.631	.337	1	1.048	.337	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
31	RNG31	4X5	.675	.336	1	.469	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
32	RNG32	4X5	.893	.168	1	1.069	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
33	RNG33	4X5	.675	0	1	.469	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
34	RNG34	4X5	.631	0	1	1.048	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
35	RNG35	4X5	.427	.336	1	.922	0	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
36	RNG36	4X5	.642	.337	1	.581	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
37	RNG37	4X5	.688	.336	1	.126	0	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
38	RNG38	4X5	.686	0	1	.370	.336	z	1	1.896	1.087	1.61	1.69	.207	1.218	1	.999	3.9-1
39	RNG39	4X5	.555	0	1	.778	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
40	RNG40	4X5	.351	.336	1	1.019	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
41	RNG41	4X5	.647	.168	1	.995	.168	z	1	1.897	1.087	1.61	1.69	.207	.861	1	1	3.9-1
42	RNG42	4X5	.882	.336	1	.606	.336	z	1	1.896	1.087	1.61	1.69	.207	1.217	1	.999	3.9-1
43	ST1	2X4	.179	7	1	.027	0	y	9	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
44	ST2	2X4	.178	7	1	.035	0	y	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
45	ST3	2X4	.178	7	1	.046	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
46	ST4	2X4	.178	7	1	.048	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
47	ST5	2X4	.178	7	1	.040	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.859	3.273	.288	11.431	.961	.298	3.6.3
48	ST6	2X4	.177	7	1	.047	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
49	ST7	2X4	.177	7	1	.053	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
50	ST8	2X4	.178	7	1	.057	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
51	ST9	2X4	.178	7	1	.063	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
52	ST10	2X4	.178	7	1	.071	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
53	ST11	2X4	.179	7	1	.076	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
54	ST12	2X4	.179	7	1	.075	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
55	ST13	2X4	.178	7	1	.068	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
56	ST14	2X4	.178	7	1	.067	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
57	ST15	2X4	.178	7	1	.063	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
58	ST16	2X4	.177	7	1	.059	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
59	ST17	2X4	.177	7	1	.054	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
60	ST18	2X4	.178	7	1	.046	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3

ring shear checks

stud unity check

Envelope Wood Code Checks (Continued)

	Member	Shape	Code ...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	Fc' [ksi]	Ft' [ksi]	Fb1' [...	Fb2' [...	Fv' [ksi]	RB	CL	CP	Eqn
61	ST19	2X4	.178	7	1	.054	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
62	ST20	2X4	.178	7	1	.053	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
63	ST21	2X4	.178	7	1	.043	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
64	ST22	2X4	.179	7	1	.041	7	y	8	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
65	ST23	2X4	.178	7	1	.043	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
66	ST24	2X4	.178	7	1	.053	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
67	ST25	2X4	.178	7	1	.054	0	y	4	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
68	ST26	2X4	.178	7	1	.046	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
69	ST27	2X4	.177	7	1	.054	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
70	ST28	2X4	.177	7	1	.059	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
71	ST29	2X4	.178	7	1	.063	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
72	ST30	2X4	.178	7	1	.068	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
73	ST31	2X4	.178	7	1	.068	.875	z	6	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
74	ST32	2X4	.179	7	1	.075	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
75	ST33	2X4	.179	7	1	.076	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
76	ST34	2X4	.178	7	1	.071	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
77	ST35	2X4	.178	7	1	.063	.875	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
78	ST36	2X4	.178	7	1	.057	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
79	ST37	2X4	.177	7	1	.052	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
80	ST38	2X4	.177	7	1	.047	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
81	ST39	2X4	.178	7	1	.040	6.125	z	12	.671	1.658	2.859	3.273	.288	11.431	.961	.298	3.6.3
82	ST40	2X4	.178	7	1	.048	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
83	ST41	2X4	.178	7	1	.046	0	z	1	.671	1.658	2.859	3.273	.207	11.431	.961	.298	3.6.3
84	ST42	2X4	.178	7	1	.035	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]859	3.273	.288	11.431	.961	.298	3.6.3
85	R1	2X6	.862	6.25	1	.452	11.1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]198	2.579	.207	10.488	.98	.274	3.9-3
86	R2	2X6	.862	6.25	1	.484	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
87	R3	2X6	.862	6.25	1	.505	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
88	R4	2X6	.862	6.251	1	.508	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
89	R5	2X6	.862	6.251	1	.490	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
90	R6	2X6	.862	6.25	1	.460	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
91	R7	2X6	.862	6.25	1	.476	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
92	R8	2X6	.862	6.25	1	.501	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
93	R9	2X6	.862	6.25	1	.509	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
94	R10	2X6	.862	6.25	1	.493	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
95	R11	2X6	.862	6.25	1	.470	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
96	R12	2X6	.862	6.25	1	.470	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
97	R13	2X6	.862	6.25	1	.493	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
98	R14	2X6	.862	6.25	1	.509	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
99	R15	2X6	.862	6.25	1	.501	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
100	R16	2X6	.862	6.25	1	.476	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
101	R17	2X6	.862	6.25	1	.460	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
102	R18	2X6	.862	6.251	1	.490	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
103	R19	2X6	.862	6.251	1	.508	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
104	R20	2X6	.862	6.25	1	.505	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
105	R21	2X6	.862	6.25	1	.484	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
106	R22	2X6	.862	6.25	1	.452	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
107	R23	2X6	.862	6.25	1	.484	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
108	R24	2X6	.862	6.25	1	.505	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
109	R25	2X6	.862	6.251	1	.508	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
110	R26	2X6	.862	6.251	1	.490	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
111	R27	2X6	.862	6.25	1	.460	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3
112	R28	2X6	.862	6.25	1	.476	11.1...	y	1	.589	1.465	2.198	2.579	.207	10.488	.98	.274	3.9-3

rafter unity check